MAD JULY 2022

PROJECT ID: WITH: N/A **3080-01-40/75/76**

COUNTY: **DANE**

01

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 1328

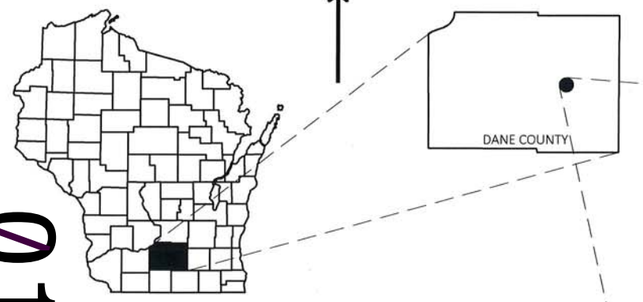
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

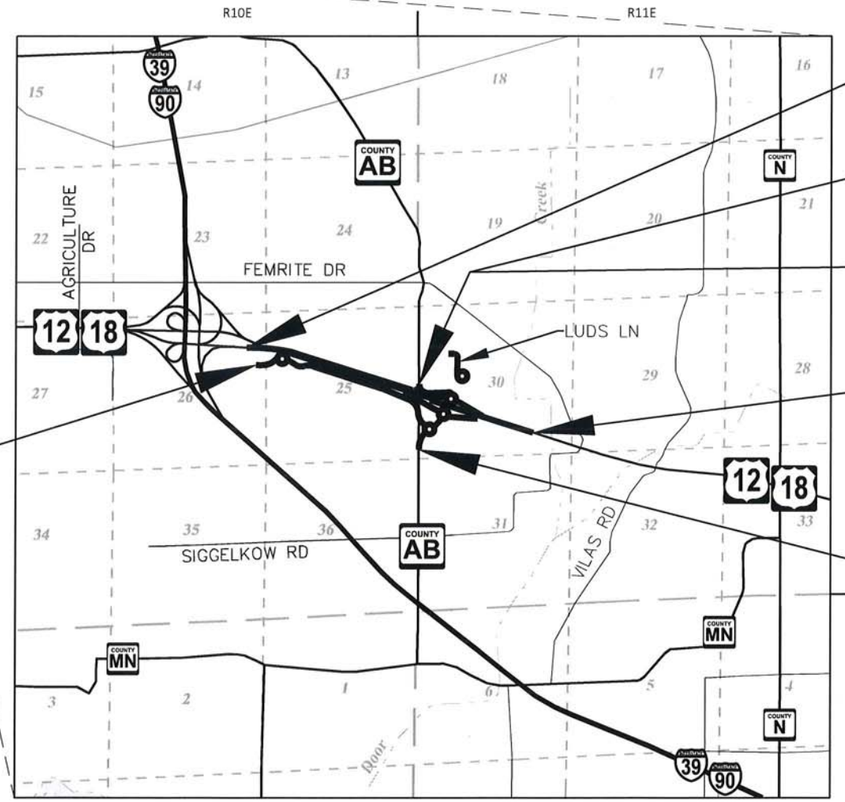
PLAN OF PROPOSED IMPROVEMENT

MADISON - CAMBRIDGE

CTH AB OVERPASS	CTH AB OVERPASS	CTH AB INTERCHANGE
USH 12	USH 12	USH 12
DANE COUNTY	DANE COUNTY	DANE COUNTY
STATE PROJECT NUMBER	STATE PROJECT NUMBER	STATE PROJECT NUMBER
3080-01-40	3080-01-75	3080-01-76

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3080-01-40	———	—
3080-01-75	WISC 2022450	1
3080-01-76	WISC 2022451	1





DESIGN DESIGNATION USH 12/18 CTH AB

A.A.D.T.	2023	= 19,200 (WEST LEG - BTW MILLPOND RD AND CTH AB)	6,400 (NORTH LEG - CTH AB NORTH OF LONG DR)
A.A.D.T.	2043	= 30,900	9,400
D.H.V.		= 2,910	996
D.D.		= 68/32	60/40
T.		= 7.4%	10.9%
DESIGN SPEED		= 60 mph	50 mph
ESALS		= 7,300,000	1,900,000

BEGIN PROJECT 3080-01-40
STA 130+83.85'EB'

BEGIN PROJECT 3080-01-76
STA 122+46.27'EB'
Y=472206.212
X=851721.831

END PROJECT 3080-01-75
STA 538+99.69'NB'
Y=470962.382
X=857881.373

END PROJECT 3080-01-40
STA 538+88.10'NB'

END PROJECT 3080-01-76
STA 223+99.88'EB'
Y=469280.741
X=861427.281

BEGIN PROJECT 3080-01-75
STA 500+10.72'NB'
Y=468609.623
X=857854.015

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE	300 EB'	ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
WOODED OR SHRUB AREA		TELEPHONE POLE	

LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE (3080-01-75) = 0.737 MILES
TOTAL NET LENGTH OF CENTERLINE (3080-01-76) = 1.924 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88 (2012).

ACCEPTED FOR
CITY OF MADISON
Date 11/20/22 (Signature and Title of Official) FOR RPD

ORIGINAL PLANS PREPARED BY
AYRES WISCONSIN KEVIN M. KUHLOW E-34276 MADISON WI PROFESSIONAL ENGINEER
DATE: 1/18/2022 (Professional Engineer Signature)

ORIGINAL PLANS PREPARED BY
SEH WISCONSIN DEAN V. STODOLA 36006-006 MCFARLAND WI PROFESSIONAL ENGINEER
DATE: 1-18-22 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AYRES
Designer	AYRES
Project Manager	Derek Potter
Regional Examiner	SW REGION
Regional Supervisor	Chad A Schroeder

APPROVED FOR THE DEPARTMENT
DATE: 1/31/22 (Signature)

E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_010101_TI.DWG PLOT DATE : 1/12/2022 11:40 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME :

2

GENERAL NOTES

1. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
3. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
4. A SAW JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT.
5. SAWCUT ASPHALT AND CONCRETE AT THE MATCHLINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER.
6. PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER.
7. WETLANDS, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIAL NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.
8. BROKEN CONCRETE CONTAINING REBAR SHALL NOT BE USED AS RIPRAP.
9. PLACE EROSION CONTROL DEVICES IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER. EROSION CONTROL FEATURES ARE SHOWN AT APPROXIMATE LOCATIONS, WITH EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER. REMOVAL OF ITEMS ARE INCIDENTAL TO THE RESPECTIVE EROSION CONTROL BID ITEM COSTS.
10. DO NOT USE FERTILIZER WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.
11. PLACE SALVAGED TOPSOIL IN ALL GRADED AREAS AS DESIGNATED BY THE ENGINEER IMMEDIATELY AFTER GRADING HAS BEEN COMPLETED. SEED, MULCH AND FERTILIZE ALL AREAS 5 DAYS AFTER PLACEMENT OF SALVAGED TOPSOIL.
12. FINAL LIMITS OF ANY FENCE TO BE REMOVED TO BE DETERMINED BY THE ENGINEER.
13. STATIONING, DISTANCES, AND OFFSETS FOR SIGNS AND TRAFFIC CONTROL DEVICES SHOWN IN THE PLANS ARE APPROXIMATE. EXACT LOCATIONS ARE DETERMINED BY THE ENGINEER.
14. COVER ALL SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
15. RESHAPING AND RESTORING OF ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE ENGINEER DETERMINED CONSTRUCTION LIMITS ARE INCIDENTAL TO THE CONTRACT.
16. UNSUITABLE EMBANKMENT MATERIALS SHOULD NOT BE PLACED OUTSIDE THE 1:1 ALONG THE SOUTH SIDE OF THE D RAMP, WEST SIDE OF CTH AB BETWEEN THE D RAMP AND MILLPOND, AND THE NORTH SIDE OF MILLPOND.

STANDARD ABBREVIATIONS

A.D.T.	AVERAGE DAILY TRAFFIC
AECP	APRON ENDWALL FOR CULVERT PIPE
AECPRC	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
AECPS	APRON ENDWALL FOR CULVERT PIPE STEEL
AECPSAL	APRON ENDWALL FOR CULVERT PIPE SALVAGED
ATMS	ARTERIAL TRAFFIC MANAGEMENT SYSTEM
BM	BENCHMARK
BOC	BACK OF CURB
CBTP	CONCRETE BARRIER TEMPORARY PRECAST
CBSS	CONCRETE BARRIER SINGLE SLOPE
CL	CLASS
CONST	CONSTRUCTION
CP	CONTROL POINT
CPCS	CULVERT PIPE CORRUGATED STEEL
CPRC	CULVERT PIPE REINFORCED CONCRETE
D.D.	DIRECTIONAL DISTRIBUTION
D.H.V.	DESIGN HOURLY VOLUME
EB	EASTBOUND
EXIST	EXISTING
HMA	HOT MIX ASPHALT
H.S.	HIGH STRENGTH
ITS	INTELLIGENT TRAFFIC SYSTEM
MAX	MAXIMUM
MIN	MINIMUM
NB	NORTHBOUND
NOR	NORMAL
PC	POINT OF CURVATURE
PCC	POINT OF COMMON CURVATURE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
R/L	REFERENCE LINE
REQ'D	REQUIRED
SB	SOUTHBOUND
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
T.	PERCENT TRUCKS
TYP	TYPICAL
VAR	VARIABLE
WB	WESTBOUND
Wt.	WEIGHT

UTILITY CONTACTS

ALLIANT ENERGY - ELECTRICITY/GAS/PETROLEUM
NICHOLAS DACHNIWSKYJ
935 WBR TOWNLINE RD
BELOIT, WI 53511
PHONE: (608) 364-6566
MOB: (608) 444-9362
EMAIL: NICHOLASDACHNIWSKYJ@ALLIANTENERGY.COM

ANR PIPELINE CO - GAS/PETROLEUM
JASON JENSEN
6827 CONSOLIDATED SCHOOL RD
JANESVILLE, WI 53545
PHONE: (608) 373-6940
MOB: (608) 449-4640
EMAIL: JASON_JENSEN@TCENERGY.COM

AT&T WI - FIBER
RYAN DENEWELLIS
152 DIXON ST
MADISON, WI 53704
PHONE: (608) 252-2879
MOB: (608) 358-6285
EMAIL: RD1238@ATT.COM

CHARTER COMMUNICATIONS - COMMUNICATION LINE
FRANK WOZNICK
2701 DANIELS ST
MADISON, WI 53718
MOB: (608) 215-9263
EMAIL: FRANK.WOZNIK@CHARTER.COM

CITY OF MADISON - COMMUNICATIONS
MIKE BENZSCHAWEL
1120 SAYLE ST
MADISON, WI 53715
PHONE: (608) 266-4767
EMAIL: MBENZSCHAWEL@CITYOFMADISON.COM

CITY OF MADISON ENGINEERING - SEWER
GREGORY T. FRIES
RM 114 CITY/CO BLDG, 210 MARTIN LUTHER KING JR BLVD
MADISON, WI 53703
PHONE: (608) 267-1199
EMAIL: GFRIES@CITYOFMADISON.COM

FLINT HILLS RESOURCES, LLC (FHR) - GAS PETROLEUM
SHELDON RAU
9343 N 107TH ST
MILWAUKEE, WI 53224
PHONE: (414) 253-4132
MOB: (414) 588-0975
EMAIL: SHELDON.RAU@FHR.COM

FRONTIER COMMUNICATIONS OF WI LLC - COMMUNICATION LINE
JILL NOWAKOWSKI
9840 S 27TH ST
OAK CREEK,WI 53154
PHONE: (414) 763-4018
MOB: (629) 867-8895
EMAIL: JNOWAKOWSKI@I-T-G.NET

MADISON GAS AND ELECTRIC COMPANY - ELECTRICITY
MARK BOHM
623 RAILROAD ST
MADISON, WI 53703
PHONE: (608) 252-4730
EMAIL: MBOHM@MGE.COM

MADISON GAS AND ELECTRIC - GAS
ROGER AHLES
623 RAILROAD ST
MADISON, WI 53710
PHONE: (608) 252-5682
EMAIL: RAHLES@MGE.COM

MADISON METROPOLITAN SEWERAGE DISTRICT - SANITARY SEWER
RAY SCHNEIDER
1610 MOORLAND RD
MADISON, WI 53713
PHONE: (608) 222-1202 EXT. 259
MOB: (608) 347-3628
EMAIL: RAYS@MADSEWER.ORG

* MADISON WATER UTILITY - WATER
PETE HOLMGREN
119 E OLIN AVE
MADISON, WI 53713
PHONE: (608) 261-5530
MOB: (608) 215-0225
EMAIL: PHOLMGREN@MADISONWATER.ORG

METROPOLITAN UNIFIED FIBER NETWORK (MUFN) - FIBER
MIKE BENZSCHAWEL
1120 SAYLE ST
MADISON, WI 53715
PHONE: (608) 266-4767
EMAIL: MBENZSCHAWEL@CITYOFMADISON.COM

WISDOT ITS

WISDOT ITS
JOHN MITTELSTADT
433 W ST PAUL AVE, SUITE 300
MILWAUKEE, WI 53203
PHONE: (608) 205-7859
EMAIL: JOHN.MITTELSTADT@DOT.WI.GOV

* DENOTES NOT A MEMBER OF DIGGERS HOTLINE

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

HMA PAVEMENTS

PAVEMENT COMPOSITION	DESIGNATOR (SEE TYPICAL SECTIONS & PLAN DETAILS)
5.5-INCH = 3.75" LOWER LAYER (3 MT 58-28 S) 1.75" UPPER LAYER (4 MT 58-28 S)	AP28
OR FOR HMA ROUNDABOUTS	
5.5-INCH = 3.75" LOWER LAYER (3 MT 58-28 S) 1.75" UPPER LAYER (4 MT 58-28 H)	AP35
4.5-INCH = 2.50" LOWER LAYER (4 LT 58-28 S) 2.00" UPPER LAYER (3 LT 58-28 S)	AP26
3.5-INCH = 1.75" LOWER LAYER (4 MT 58-28 S) 1.75" UPPER LAYER (4 MT 58-28 S)	AP24
OR FOR SHOULDERS	
3.5-INCH = SINGLE LAYER (4 MT 58-28 S)	AP04
USH 12/18 TEMPORARY PAVEMENT 3.75-INCH = 2.00" LOWER LAYER (4 MT 58-28 S) 1.75" UPPER LAYER (4 MT 58-28 S)	
PATH 3.0-INCH = SINGLE LAYER ASPHALTIC SURFACE	AP03

ORDER OF SECTION 2 SHEETS

GENERAL NOTES AND CONTACTS
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
CONTROL POINTS
REMOVAL PLAN
PLAN DETAILS
PAVING GRADES
CURB RAMP DETAILS
CONCRETE PAVEMENT REPAIR
FTMS PLAN
PROPOSED DRAINAGE
CROSS SECTION MATCHLINES
EROSION CONTROL PLAN
STORM SEWER PLAN
PERMANENT SIGNING PLAN
LIGHTING PLAN
TRAFFIC CONTROL
PAVEMENT PAVEMENT MARKING
FENCING PLAN
ALIGNMENT DIAGRAM

PROJECT CONTACTS

WisDOT PROJECT MANAGER

DEREK POTTER
2101 WRIGHT ST
MADISON, WI 53704
PHONE: 608-246-3861
EMAIL: DEREK.POTTER@DOT.WI.GOV

WisDOT CONSTRUCTION

MARK SPONEM
111 INTERSTATE BLVD
EDGERTON, WI 53534
PHONE: (608) 245-2627
EMAIL: MARK.SPONEM@DOT.WI.GOV

DNR AREA LIAISON

ERIC HEGGELUND
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
3911 FISH HATCHERY RD
FITCHBURG, WI 53711-5397
PHONE: (608) 275-3301
EMAIL: ERIC.HEGGELUND@WISCONSIN.GOV

CONSULTANT DESIGN

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AYRES ASSOCIATES
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MADISON, WI 53718
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EMAIL: KUHLOWK@AYRESASSOCIATES.COM

DANE COUNTY

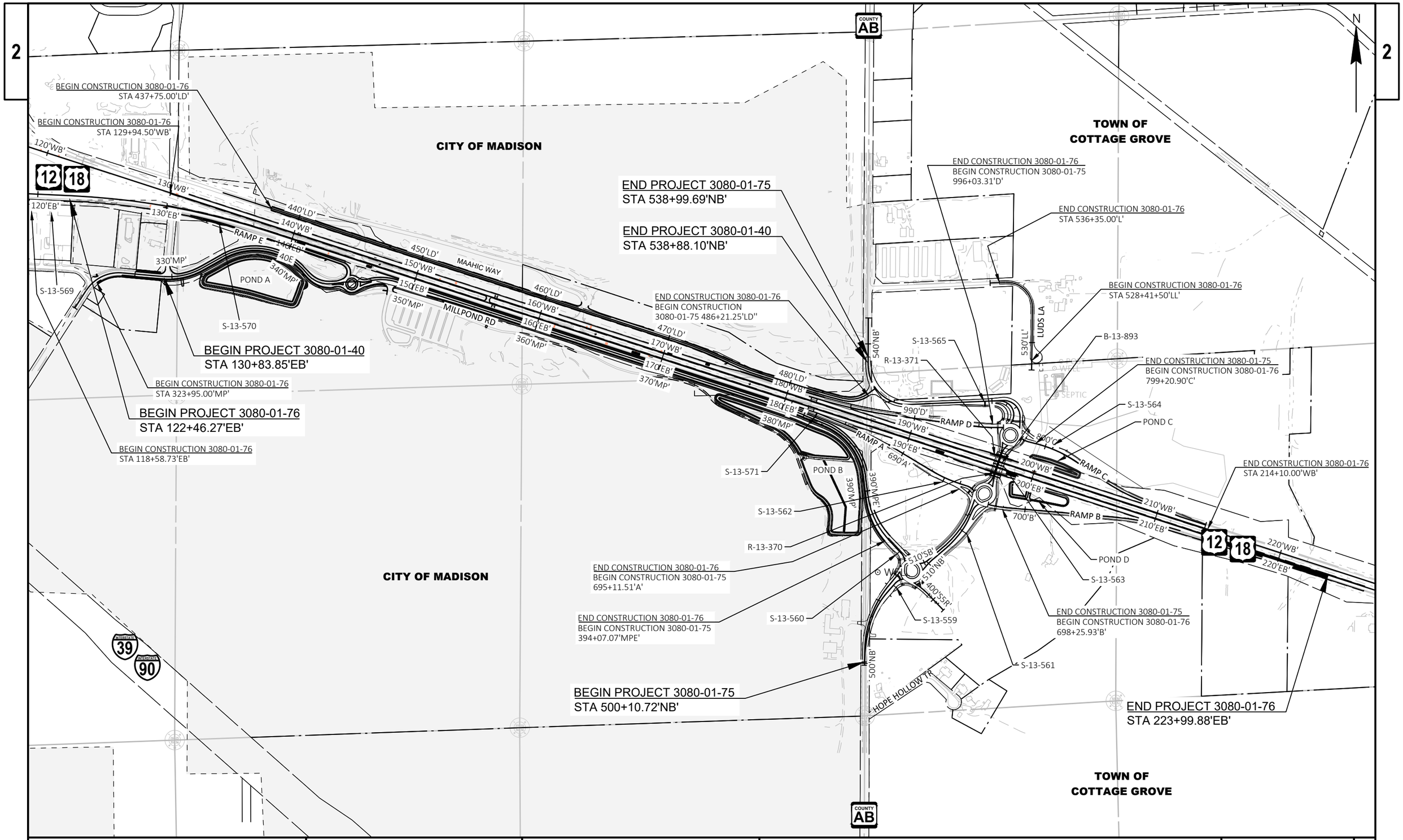
DANE COUNTY HIGHWAY DEPARTMENT
PAM DUNPHY
2302 FISH HATCHERY ROAD
MADISON, WI 53713
PHONE: (608) 266-4036
EMAIL: DUNPHY@COUNTYOFDANE.COM

DANE COUNTY WASTE AND RENEWABLES
JOHN WELCH
7102 US HIGHWAY 12 & 18
MADISON, WI 53713
PHONE: (608) 516-4154
EMAIL: WELCH@COUNTY OF DANE.COM

CITY OF MADISON

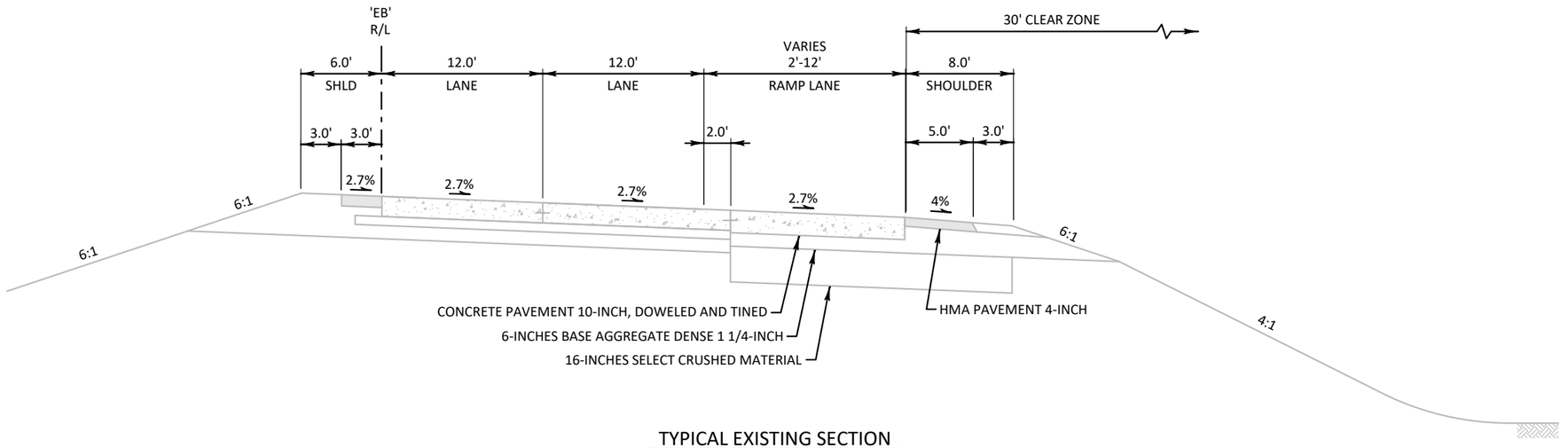
PROJECT ENGINEER
CHRISTOPHER PETYKOWSKI
210 MARTIN LUTHER KING, JR BLVD, ROOM 115
MADISON, WI 53703
CONTACT PHONE: (608) 267-8678
CONTACT EMAIL: CPETYKOWSKI@CITYOFMADISON.COM

CITY OF MADISON ENGINEERING - LIGHTING
MIKE BENZSCHAWEL
1120 SAYLE ST
MADISON, WI 53715
PHONE: (608) 266-4767
MOB: (608) 235-3649
EMAIL: MBENZSCHAWEL@ CITYOFMADISON



PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PROJECT OVERVIEW	SHEET 3	E

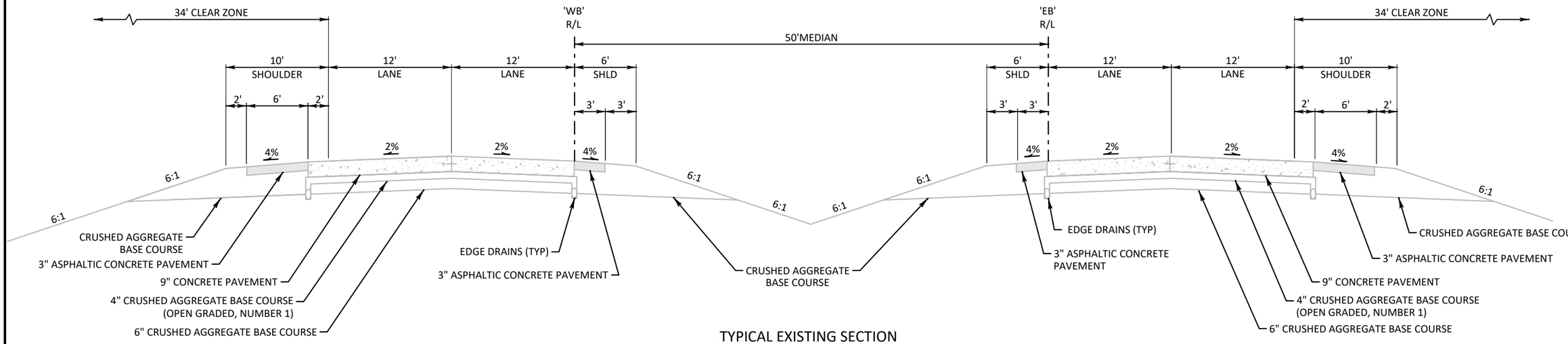
2



TYPICAL EXISTING SECTION

USH 12 / 18 EB

STA 118+58'EB' TO STA 130+00'EB'



TYPICAL EXISTING SECTION

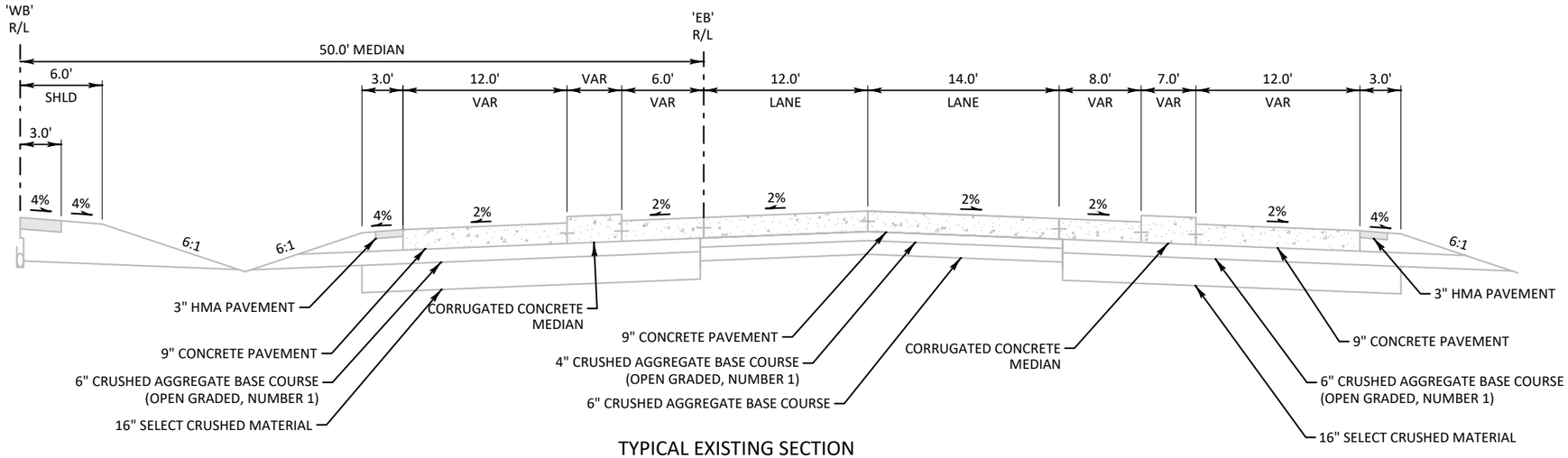
USH 12 / 18

STA 130+00'EB' TO STA 215+48'EB'

STA 129+94'WB' TO STA 213+90'WB'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS	SHEET 4	E

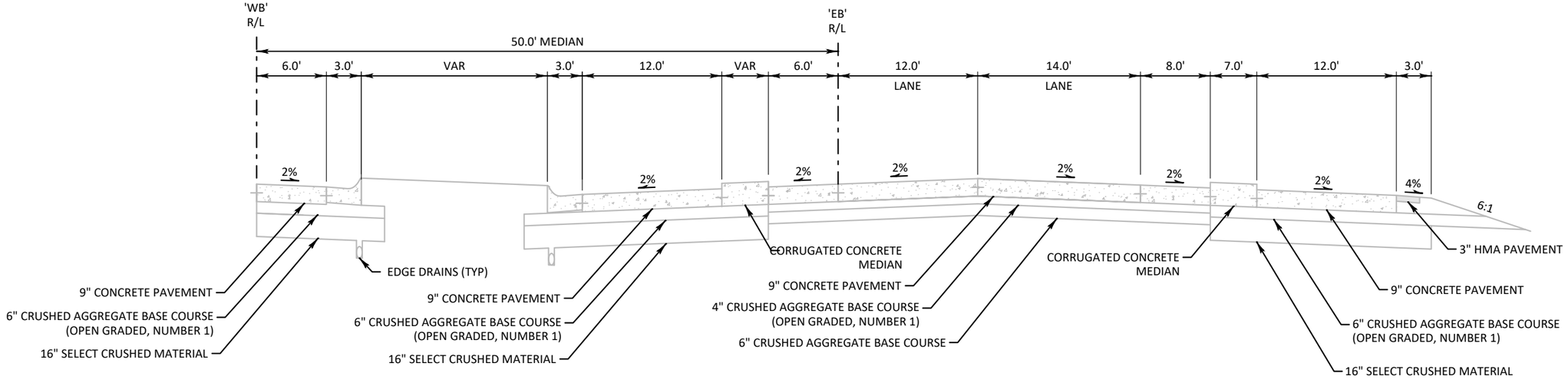
2



TYPICAL EXISTING SECTION

USH 12 / 18 AT CTH AB

STA 178+66'EB' TO STA 182+00'EB'



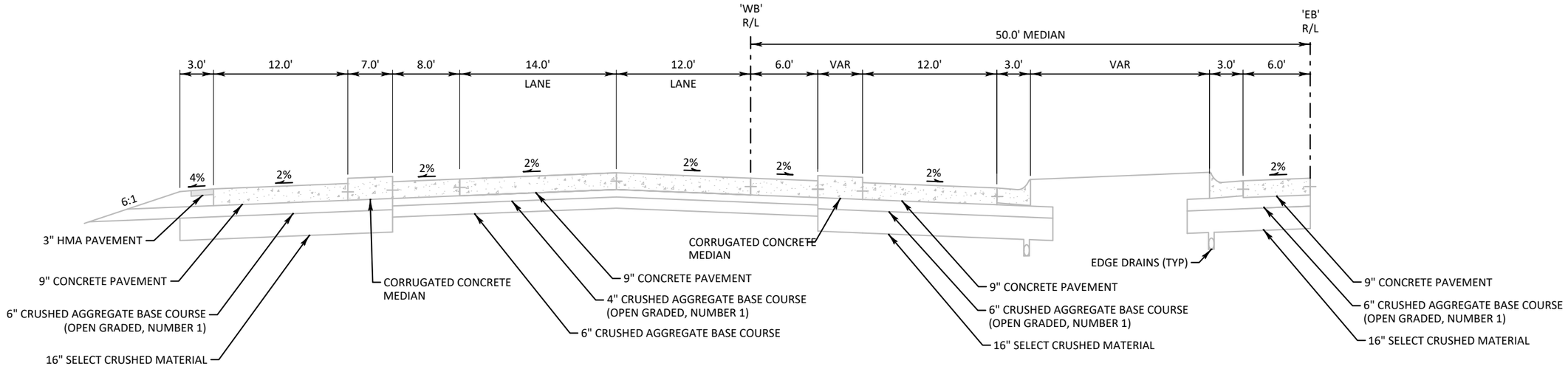
TYPICAL EXISTING SECTION

USH 12 / 18 AT CTH AB

STA 182+00'EB' TO STA 186+23'EB'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS	SHEET 5 E

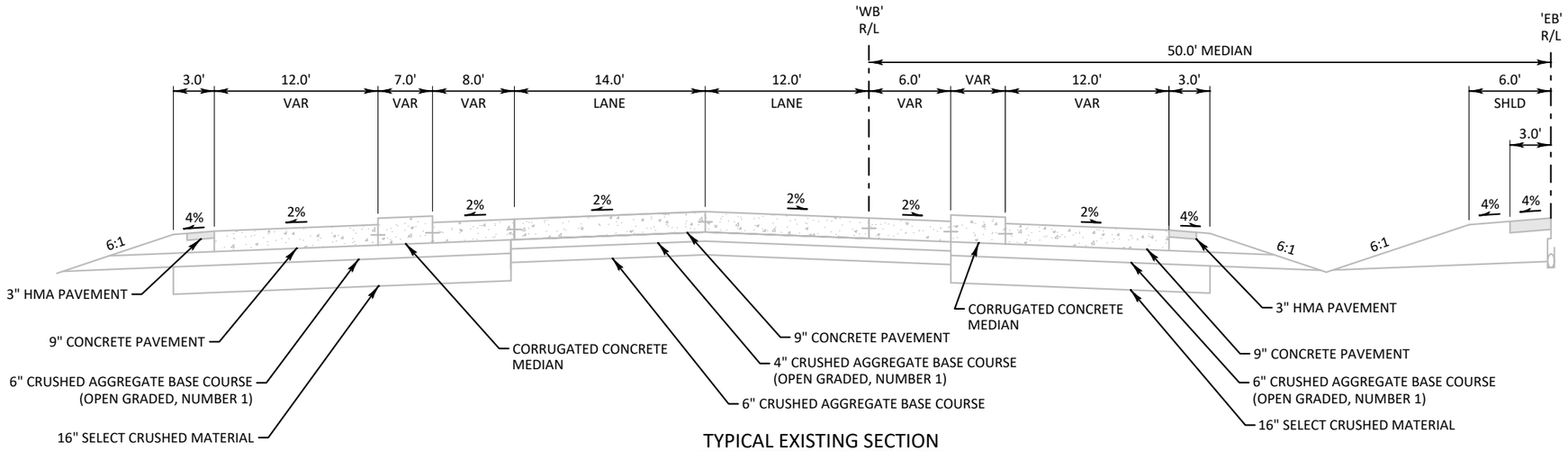
2



TYPICAL EXISTING SECTION

USH 12 / 18 AT CTH AB

STA 186+78'WB' TO STA 191+50'WB'



TYPICAL EXISTING SECTION

USH 12 / 18 AT CTH AB

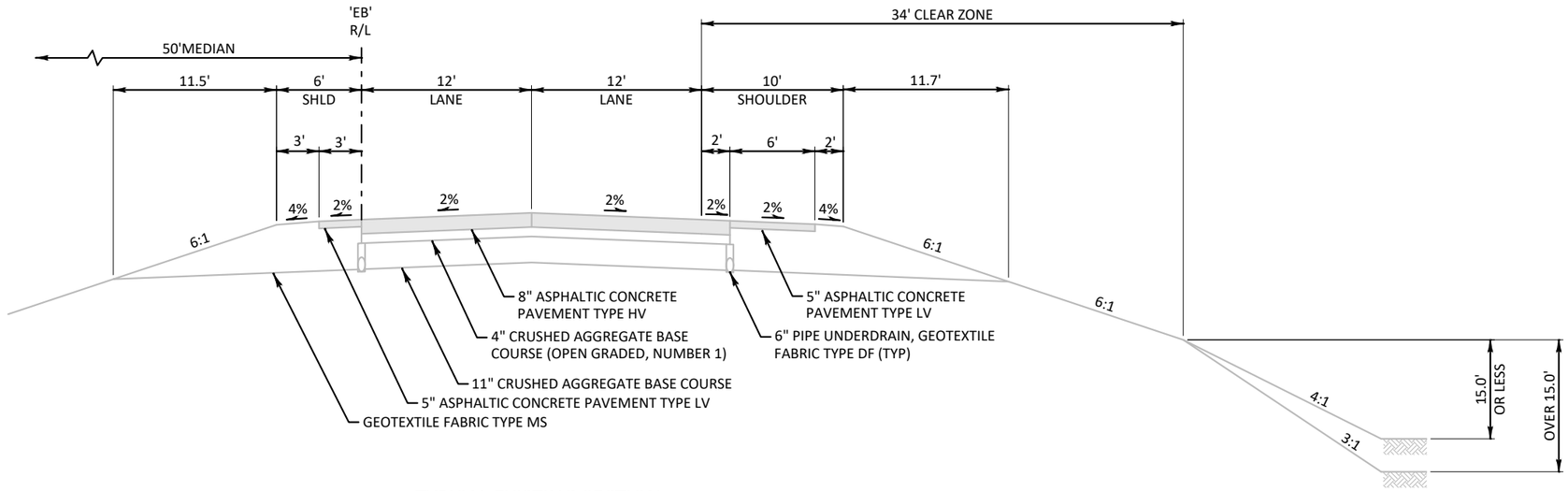
STA 191+50'WB' TO STA 194+38'WB'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS	SHEET 6	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\020300-TS (TYPICAL SECTIONS).DWG PLOT DATE : 3/10/2022 7:07 AM PLOT BY : SEH LAYOUT NAME : 03 PLOT SCALE : 1.0 IN = 10.0 FT

WISDOT/CADDS SHEET 42

2



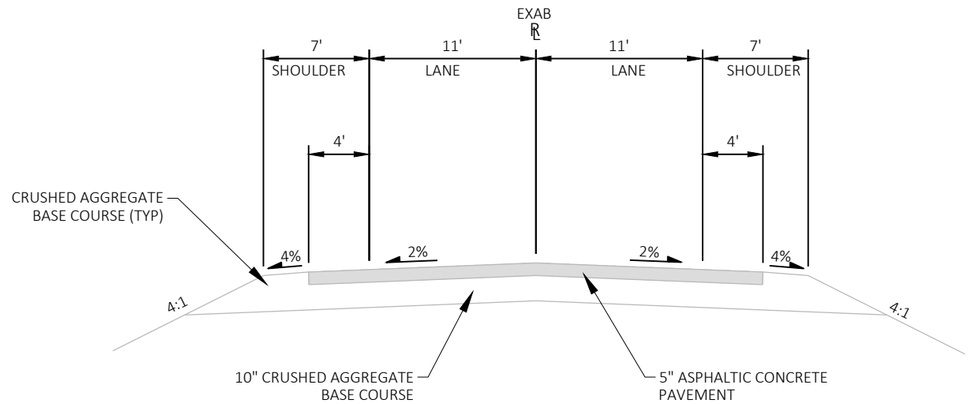
TYPICAL EXISTING SECTION

USH 12 / 18 EB

STA 215+48'EB' TO STA 224+00'EB'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS	SHEET 7 E

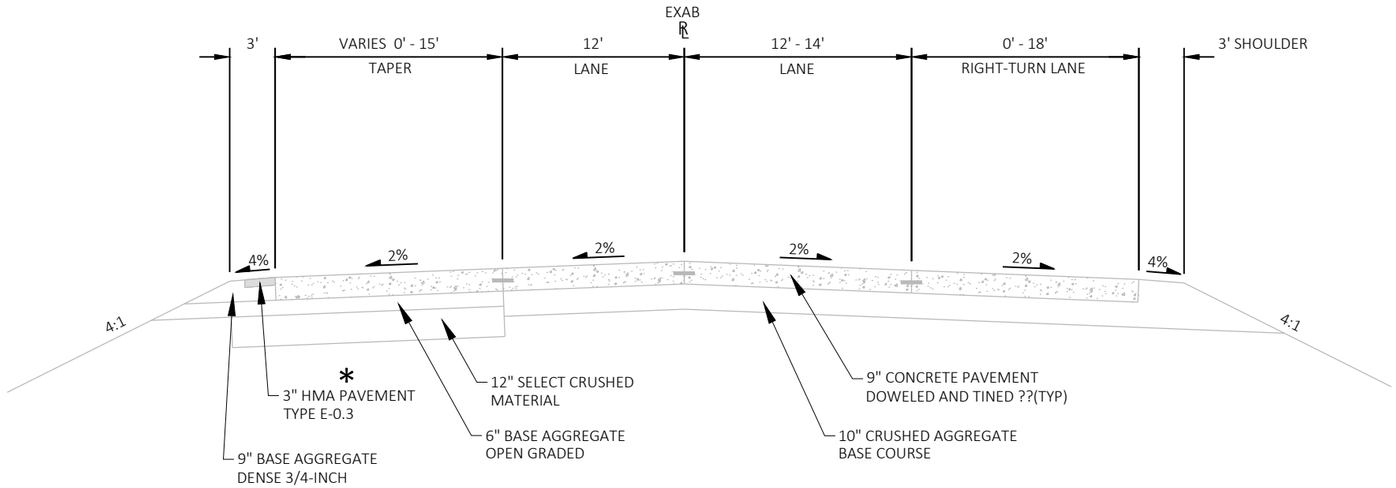
2



TYPICAL EXISTING SECTION - CTH AB

STA. 2+00.02'XAB' TO STA. 17+71.67'XAB'
STA. 22+70.37'XAB' TO STA. 25+66.32'XAB'

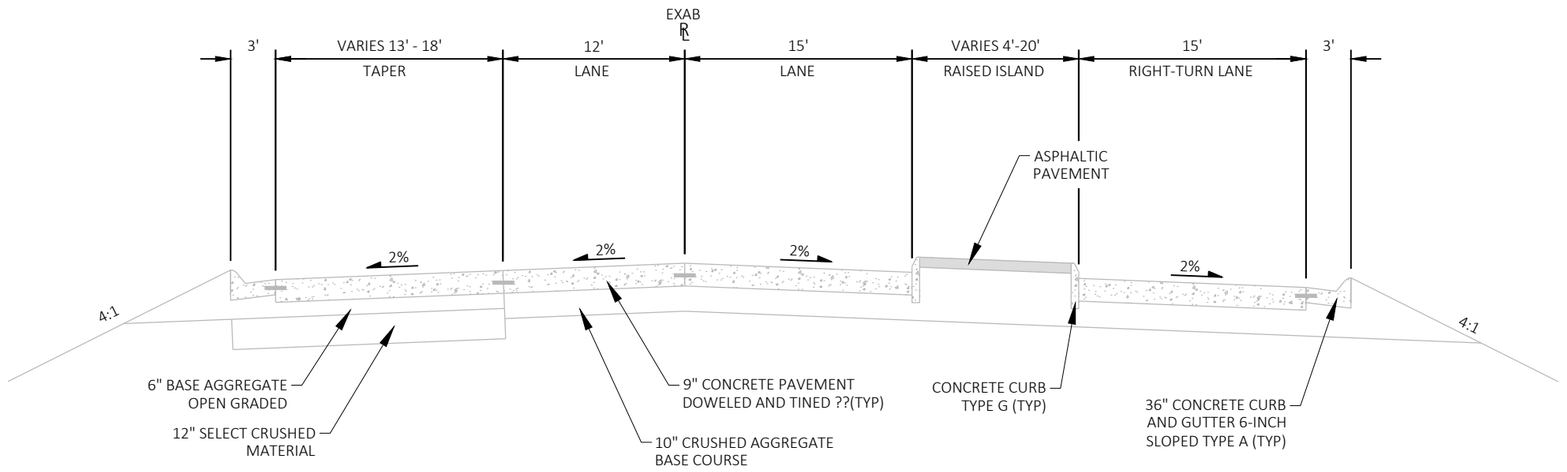
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS - CTH AB	SHEET 8	E



* STA. 18+64.00'XAB' TO STA. 19+17.31'XAB'

TYPICAL EXISTING SECTION - CTH AB

STA. 17+71.67'XAB' TO STA. 18+99.10'XAB'



TYPICAL EXISTING SECTION - CTH AB

STA. 18+99.10'XAB' TO STA. 19+64.08'XAB'

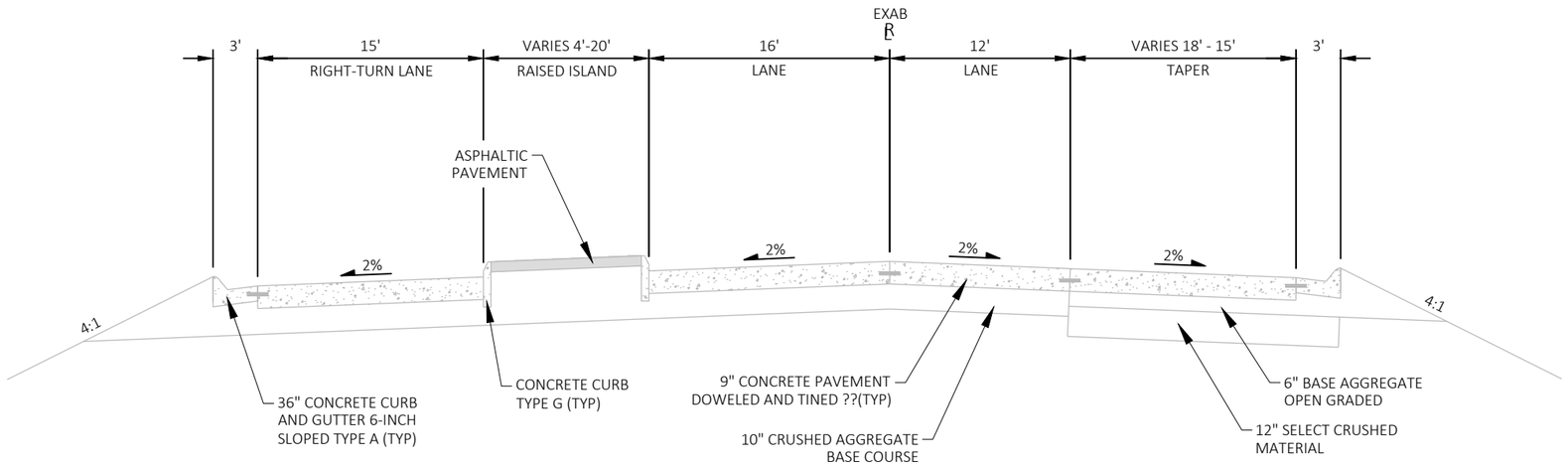
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS - CTH AB	SHEET 9	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_020301_TS.DWG
LAYOUT NAME - E02

PLOT DATE : 1/26/2022 3:23 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:10 FT

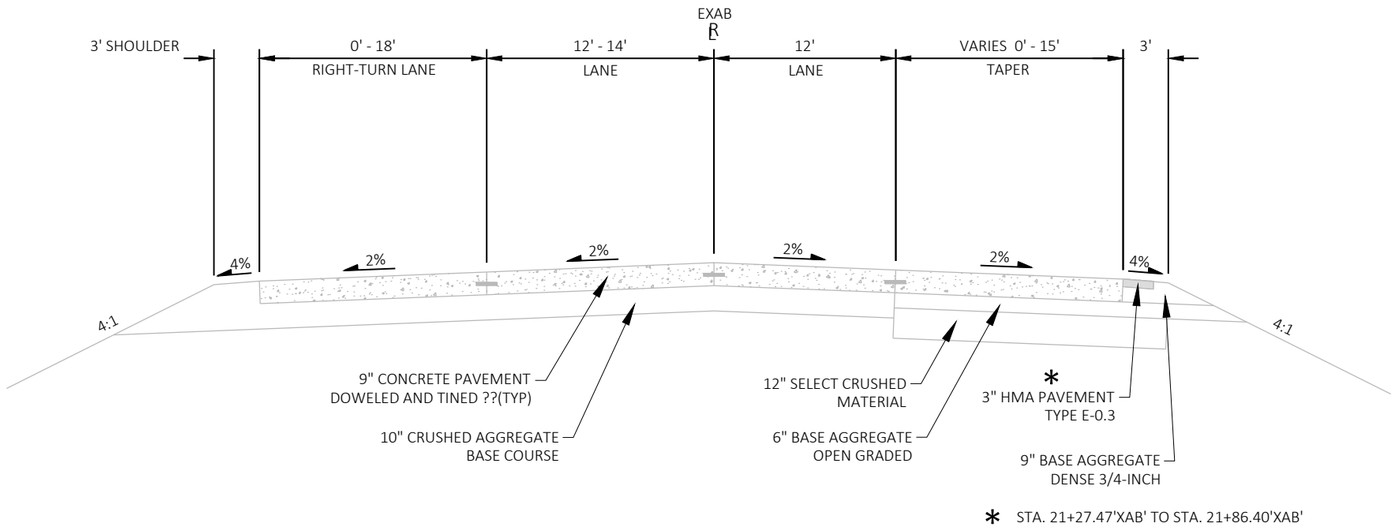
WISDOT/CADDS SHEET 42

2



TYPICAL EXISTING SECTION - CTH AB

STA. 20+88.80'XAB' TO STA. 21+50.20'XAB'



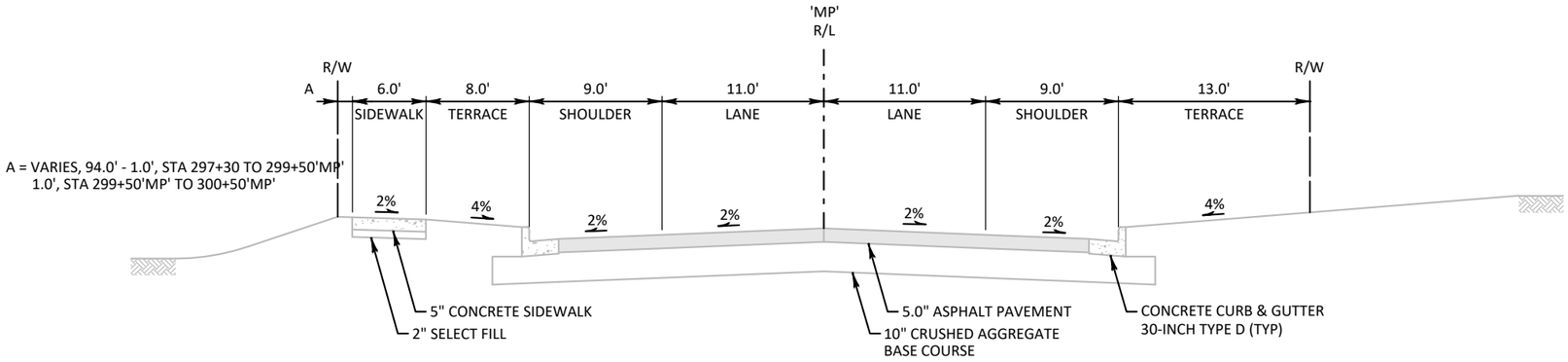
TYPICAL EXISTING SECTION - CTH AB

STA. 21+50.20'XAB' TO STA. 22+70.37'XAB'

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS - CTH AB	SHEET 10	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_020301_TS.DWG
LAYOUT NAME - E03
PLOT DATE : 1/26/2022 3:23 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

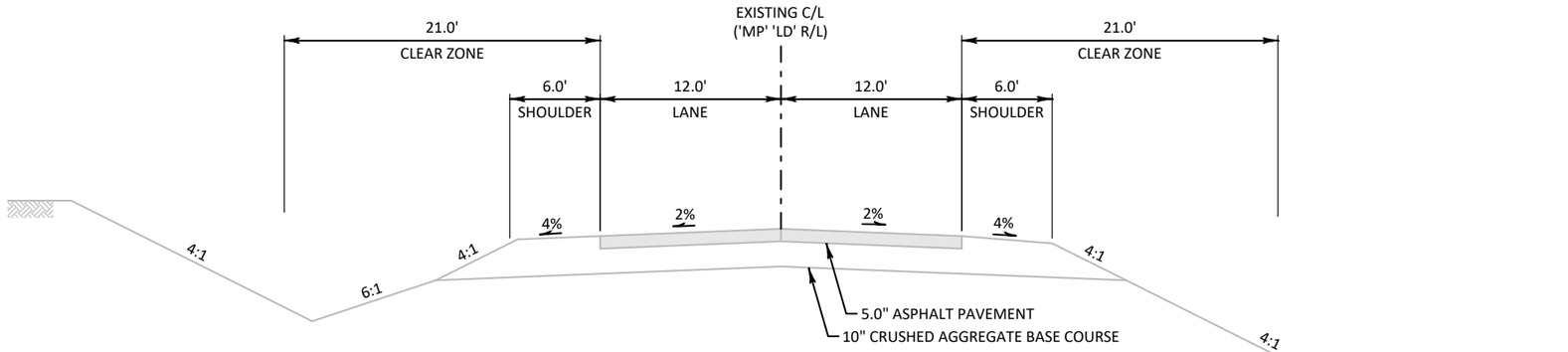
2



TYPICAL EXISTING SECTION

MILLPOND ROAD

STA 324+06'MP' TO STA 327+29'MP'



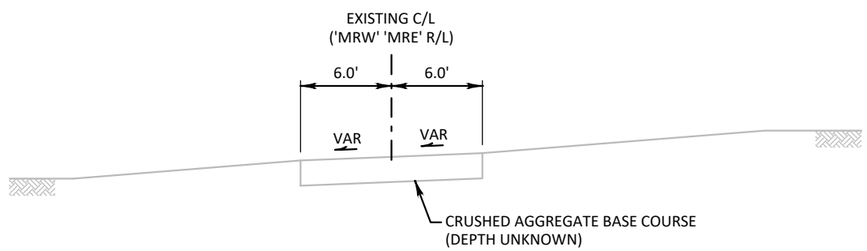
TYPICAL EXISTING SECTION

MILLPOND ROAD

STA 327+29'MP' TO STA 344+00'MP'

MAAHIC WAY (FORMER LONG DR)

STA 439+80'LD' TO STA 442+18'LD'



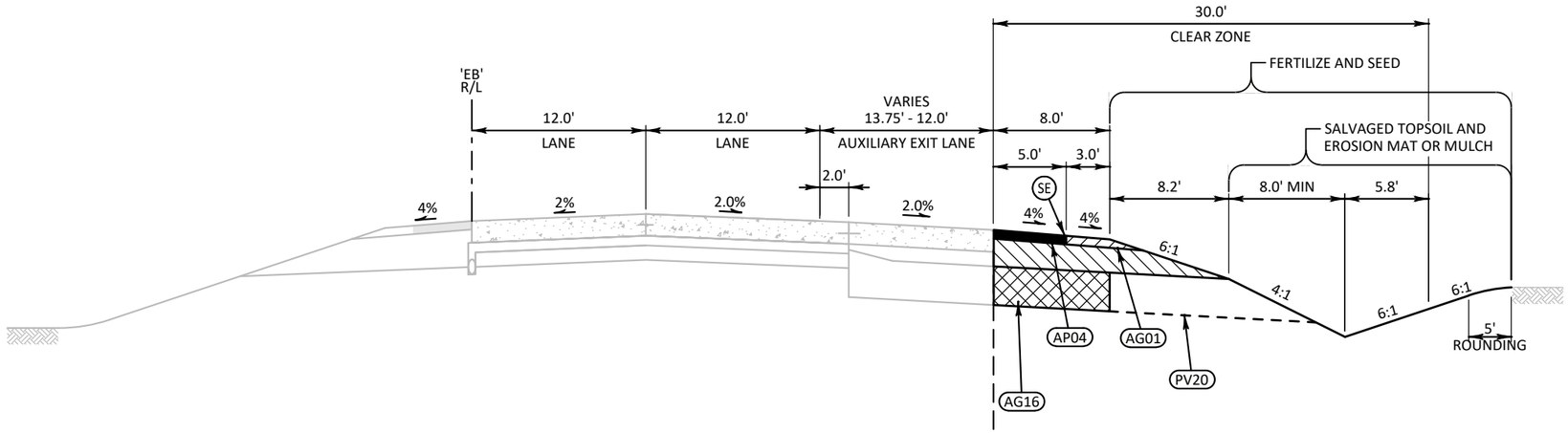
TYPICAL EXISTING SECTION

MAINTENANCE ROAD (EAST & WEST)

STA 58+82'MRW' TO STA 63+62'MRW'

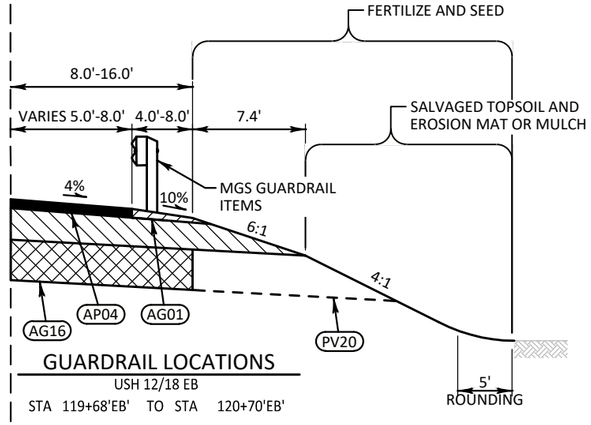
STA 369+70'MRE' TO STA 385+35'MRE'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS	SHEET 11 E



LEGEND:

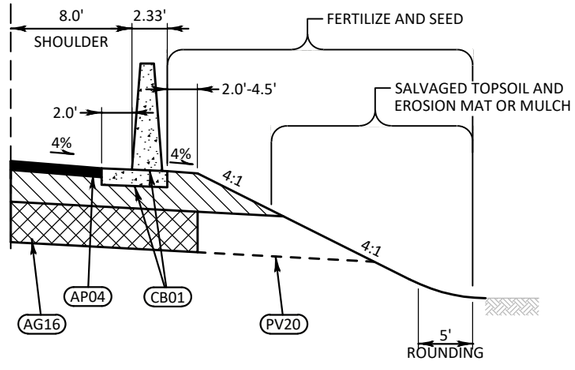
AG01	BASE AGGREGATE DENSE 3/4-INCH
AG15	SELECT CRUSHED MATERIAL, 9-INCH
AG16	SELECT CRUSHED MATERIAL, 16-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AG24	BASE AGGREGATE DENSE 1 1/4-INCH, 11.5-INCH
AP04	3.5-INCH HMA PAVEMENT
CB01	CONCRETE BARRIER TYPE S42
CG06	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CP09	CONCRETE PAVEMENT 9-INCH
PV20	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
SE	SAFETY EDGE REQ'D (INCIDENTAL)



GUARDRAIL LOCATIONS

USH 12/18 EB

STA 119+68'EB' TO STA 120+70'EB'



CONCRETE BARRIER LOCATIONS

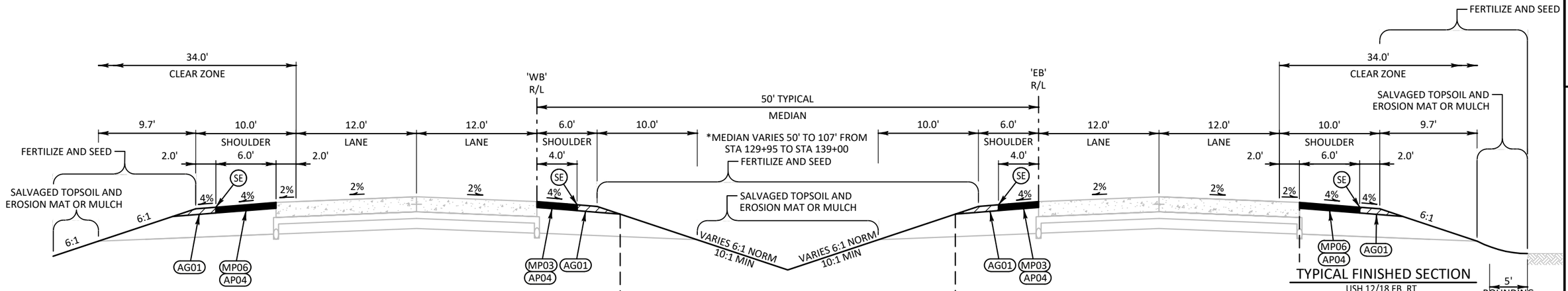
USH 12/18 EB

STA 120+70'EB' TO STA 121+10'EB'

TYPICAL FINISHED SECTION

USH 12/18 EB

STA 118+59'EB' TO STA 122+46'EB'

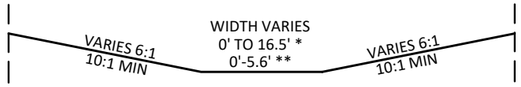


TYPICAL FINISHED SECTION
USH 12/18 WB, LT

STA	129+95	TO	STA	143+87
STA	150+38	TO	STA	161+48
STA	164+60	TO	STA	172+76
STA	193+43	TO	STA	194+04
STA	201+79	TO	STA	208+76

TYPICAL FINISHED SECTION
USH 12/18 WB, RT

STA	151+83	TO	STA	162+33
STA	163+58	TO	STA	181+46
STA	194+37	TO	STA	198+97
STA	200+24	TO	STA	213+90



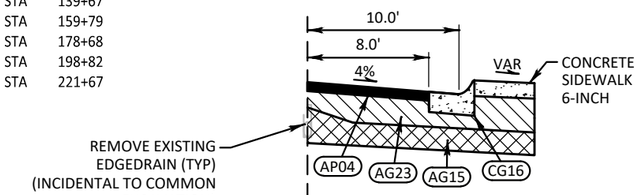
FLAT BOTTOM DITCH
STA 131+50'EB' - STA 135+00'EB'*
STA 193+00'EB' TO STA
196+00'EB'**

TYPICAL FINISHED SECTION
USH 12/18 EB, LT

STA	130+00	TO	STA	139+67
STA	146+13	TO	STA	159+79
STA	164+05	TO	STA	178+68
STA	191+59	TO	STA	198+82
STA	200+20	TO	STA	221+67

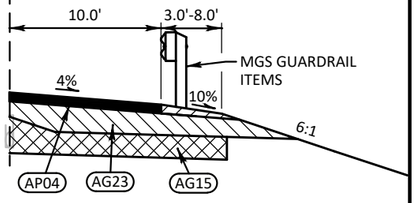
TYPICAL FINISHED SECTION
USH 12/18 EB, RT

STA	174+35	TO	STA	179+61
STA	188+63	TO	STA	192+64
STA	200+39	TO	STA	209+35
STA	221+47	TO	STA	221+67



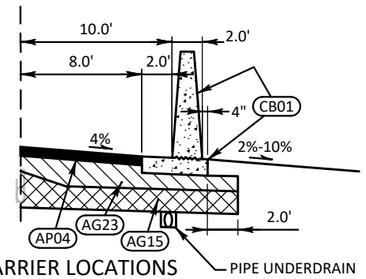
CONCRETE CURB LOCATIONS
USH 12/18 EB, RT

STA 141+05 TO STA 144+45



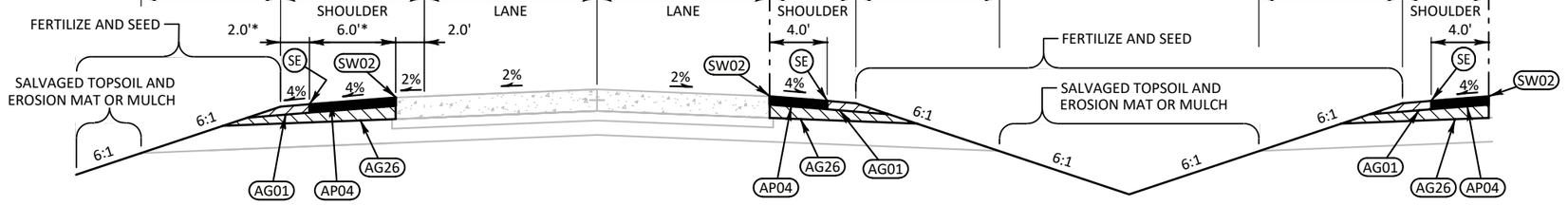
MGS LOCATIONS
USH 12/18 EB, RT

STA 144+45 TO STA 146+95



CONCRETE BARRIER LOCATIONS
USH 12/18 EB, RT

STA 146+95 TO STA 180+57



TYPICAL FINISHED SECTION
USH 12/18 WB, LT

STA	143+87	TO	STA	150+38
STA	161+48	TO	STA	164+60
STA	185+03	TO	STA	193+43

TYPICAL FINISHED SECTION
USH 12/18 EB, RT
*MIRROR FOR EB

STA	179+61	TO	STA	180+77
STA	185+66	TO	STA	188+63

TYPICAL FINISHED SECTION
USH 12/18 WB, RT

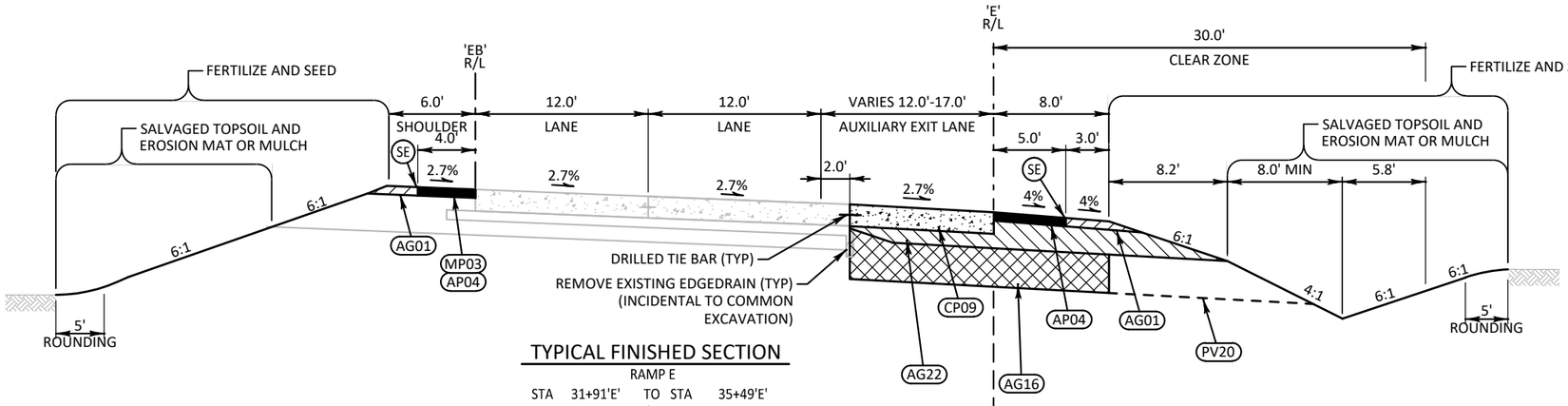
STA	129+95	TO	STA	151+83
STA	162+33	TO	STA	163+58
STA	181+46	TO	STA	194+37
STA	198+97	TO	STA	200+24

LEGEND:

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG15	SELECT CRUSHED MATERIAL, 9-INCH
AG23	BASE AGGREGATE DENSE 1 1/4-INCH, 15-INCH
AG24	BASE AGGREGATE DENSE 1 1/4-INCH, 11.5-INCH
AG26	BASE AGGREGATE DENSE 1 1/4-INCH, 5.5-INCH
AP04	3.5-INCH HMA PAVEMENT
CB01	CONCRETE BARRIER TYPE S42
CG16	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
MP03	REMOVING ASPHALTIC SURFACE MILLING, 3-FT WIDTH
MP06	REMOVING ASPHALTIC SURFACE MILLING, 6-FT WIDTH
SW02	SAWING CONCRETE
SE	SAFETY EDGE REQ'D (INCIDENTAL)

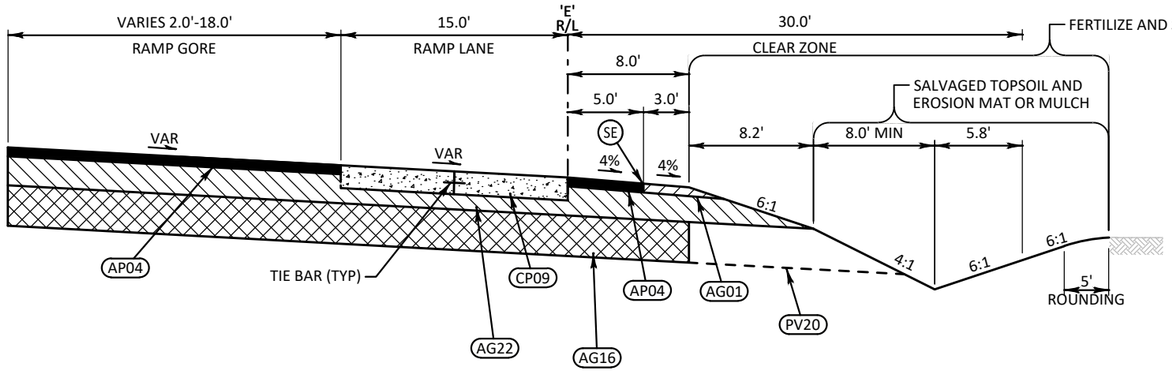
TYPICAL FINISHED SECTION
USH 12/18 EB, LT

STA	139+67	TO	STA	146+13
STA	159+79	TO	STA	164+05
STA	178+68	TO	STA	191+59
STA	198+82	TO	STA	200+20



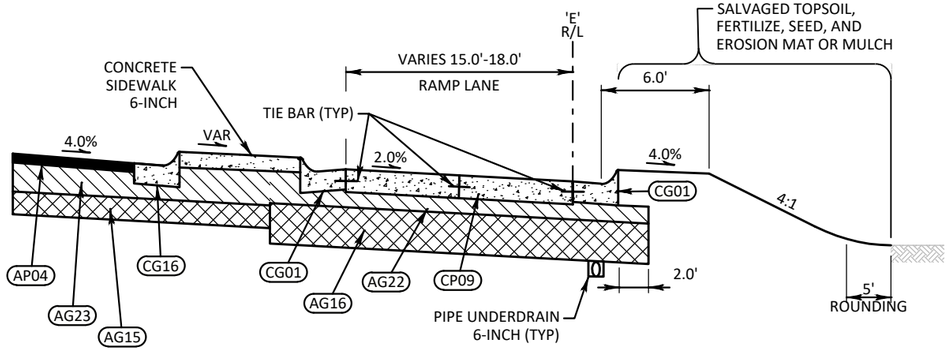
TYPICAL FINISHED SECTION

RAMP E
STA 31+91'E' TO STA 35+49'E'
USH 12/18 EB, RT
STA 122+46'EB' TO STA 135+51'EB'



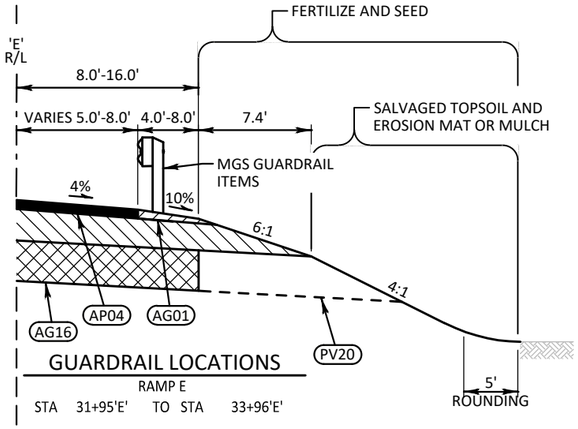
TYPICAL FINISHED SECTION

RAMP E
STA 35+49'E' TO STA 41+00'E'
USH 12/18 EB, RT
STA 135+51'EB' TO STA 141+05'EB'



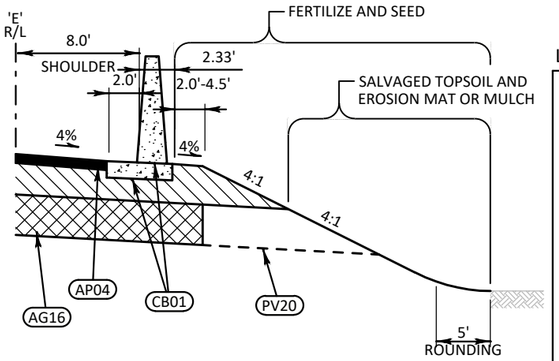
TYPICAL FINISHED SECTION

RAMP E
STA 41+00'E' TO STA 44+35'E'



GUARDRAIL LOCATIONS

RAMP E
STA 31+95'E' TO STA 33+96'E'



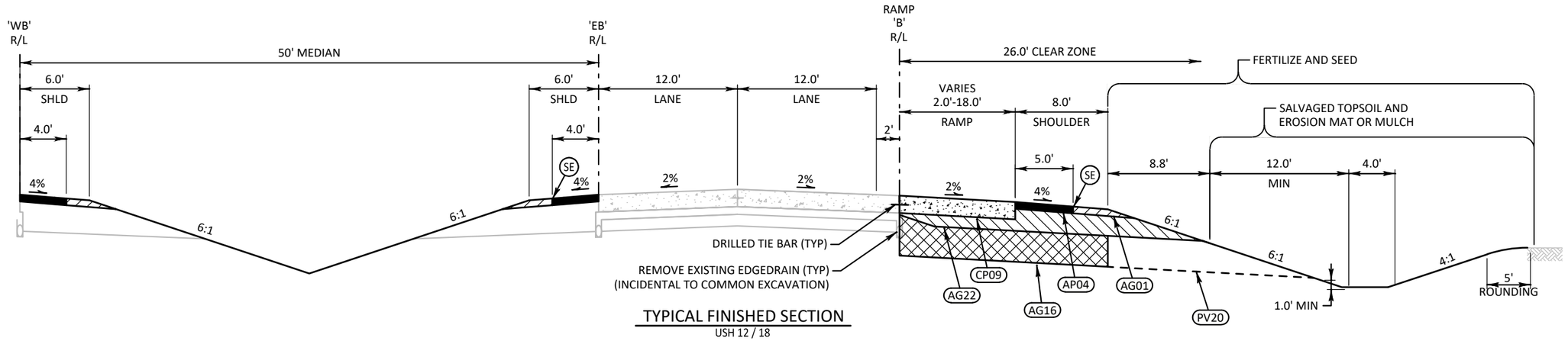
CONCRETE BARRIER LOCATIONS

RAMP E
STA 33+96'E' TO STA 34+36'E'

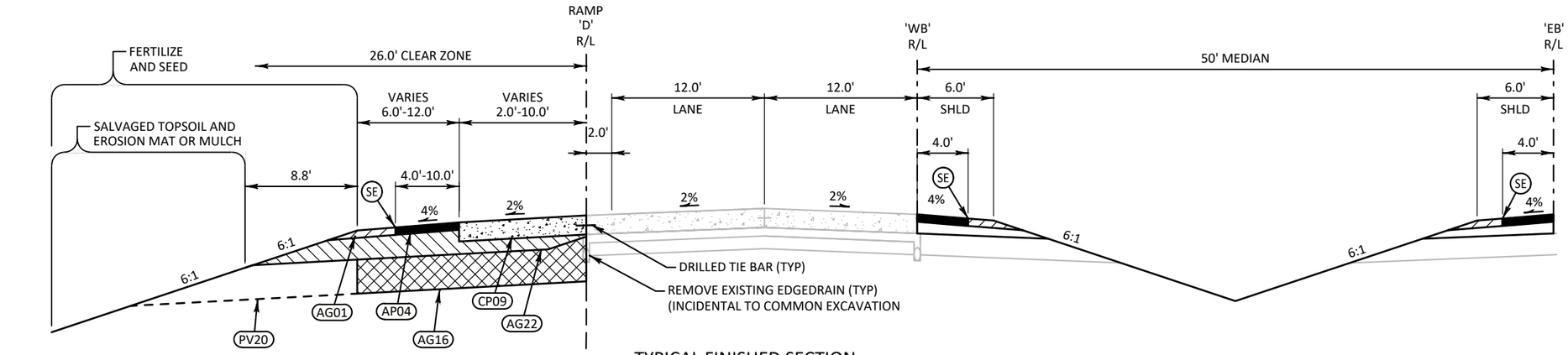
LEGEND:

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG15	SELECT CRUSHED MATERIAL, 9-INCH
AG16	SELECT CRUSHED MATERIAL, 16-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AG24	BASE AGGREGATE DENSE 1 1/4-INCH, 11.5-INCH
AP04	3.5-INCH HMA PAVEMENT
CB01	CONCRETE BARRIER TYPE S42
CG06	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CP09	CONCRETE PAVEMENT 9-INCH
MP03	REMOVING ASPHALTIC SURFACE MILLING, 3-FT WIDTH
PV20	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
SE	SAFETY EDGE REQ'D (INCIDENTAL)

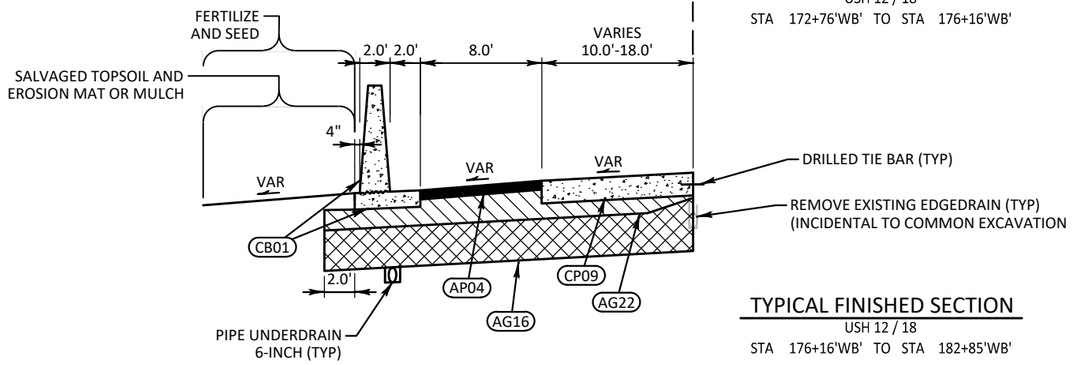
2



TYPICAL FINISHED SECTION
USH 12 / 18
STA 211+11'EB' TO STA 221+47'EB'



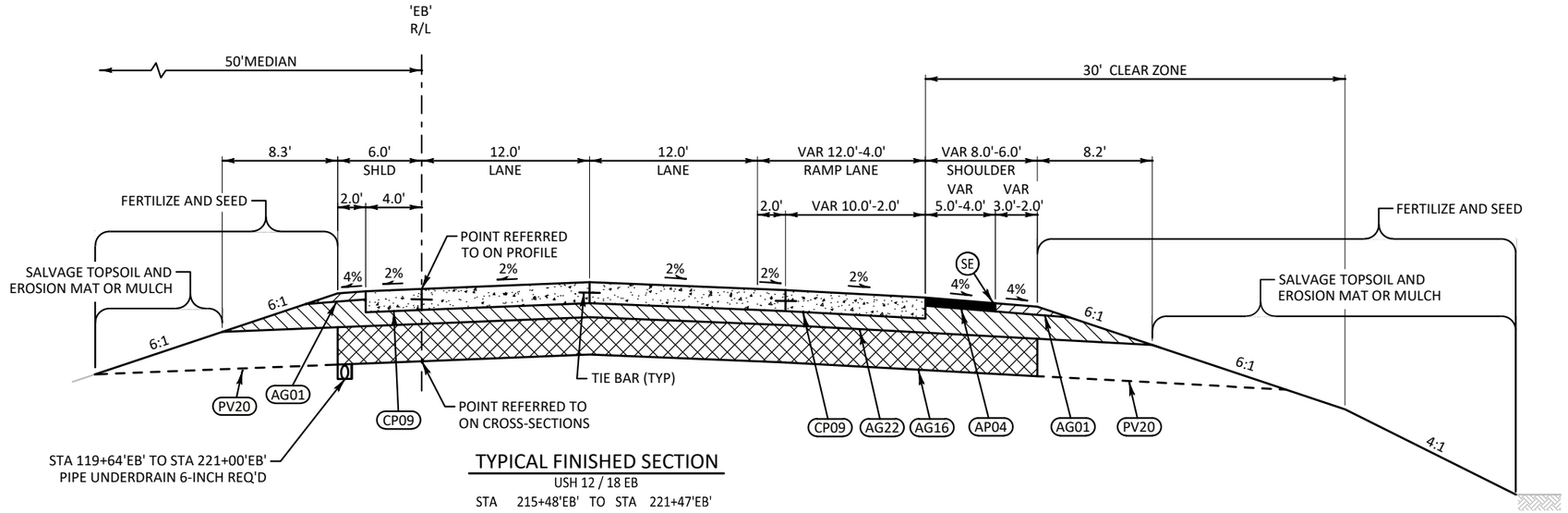
TYPICAL FINISHED SECTION
USH 12 / 18
STA 172+76'WB' TO STA 176+16'WB'



TYPICAL FINISHED SECTION
USH 12 / 18
STA 176+16'WB' TO STA 182+85'WB'

LEGEND:

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG16	SELECT CRUSHED MATERIAL, 16-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AP04	3.5-INCH HMA PAVEMENT
CP09	CONCRETE PAVEMENT 9-INCH
CB01	CONCRETE BARRIER TYPE S42
PV20	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
SE	SAFETY EDGE REQ'D (INCIDENTAL)



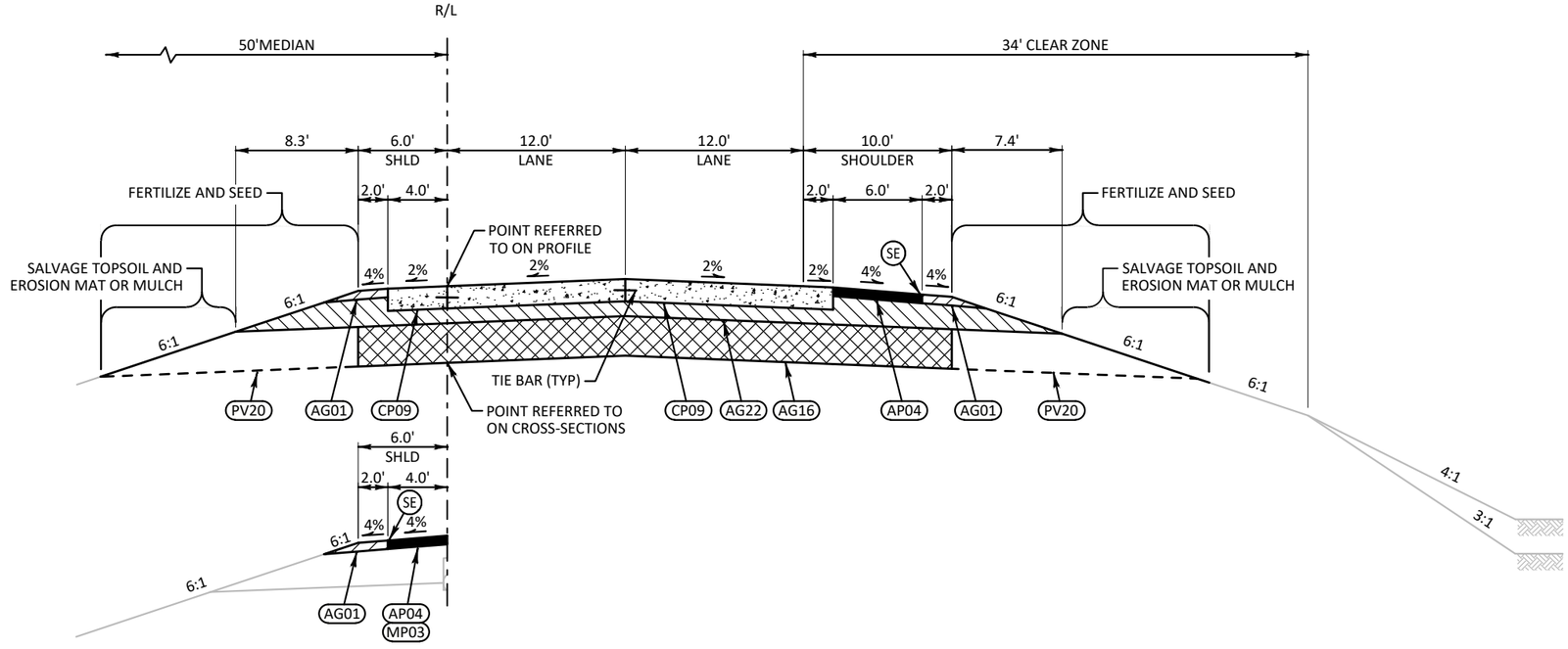
TYPICAL FINISHED SECTION

USH 12 / 18 EB

STA 215+48'EB' TO STA 221+47'EB'

LEGEND:

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG16	SELECT CRUSHED MATERIAL, 16-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AP04	3.5-INCH HMA PAVEMENT
CP09	CONCRETE PAVEMENT 9-INCH
MP03	REMOVING ASPHALTIC SURFACE MILLING, 3-FT WIDTH
PV20	RELIEF TRENCH (SEE CONSTRUCTION DETAIL)
SE	SAFETY EDGE REQ'D (INCIDENTAL)



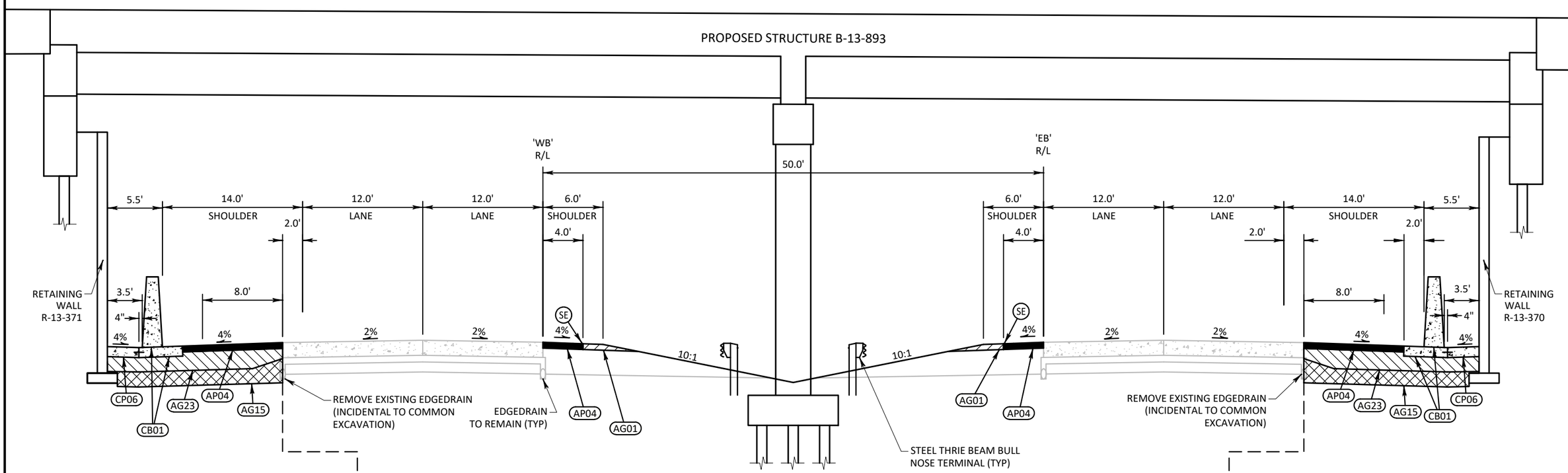
TYPICAL FINISHED SECTION

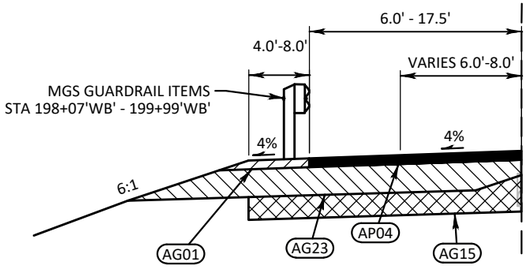
USH 12/18 EB AT RAMP B

STA 221+47'EB' TO STA 224+00'EB'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS	SHEET 16 E

2





SHOULDER WIDENING LOCATIONS

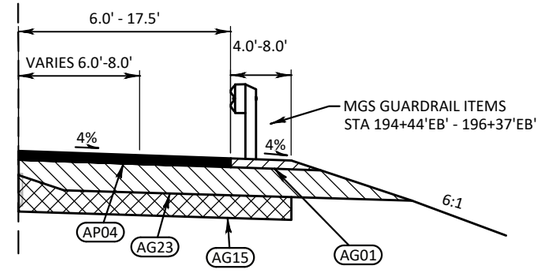
USH 12 / 18

STA 194+04'WB' TO STA 196+34'WB'
STA 198+13'WB' TO STA 201+79'WB'

TYPICAL FINISHED SECTION - USH 12/18 AT CTH AB STRUCTURE

LEGEND:

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG15	SELECT MATERIAL, 9-INCH
AG23	BASE AGGREGATE DENSE 1 1/4-INCH, 15.0-INCH
AP04	3.5-INCH HMA PAVEMENT
CB01	CONCRETE BARRIER TYPE S42
CP06	CONCRETE PAVEMENT 6-INCH
SE	SAFETY EDGE (INCIDENTAL)

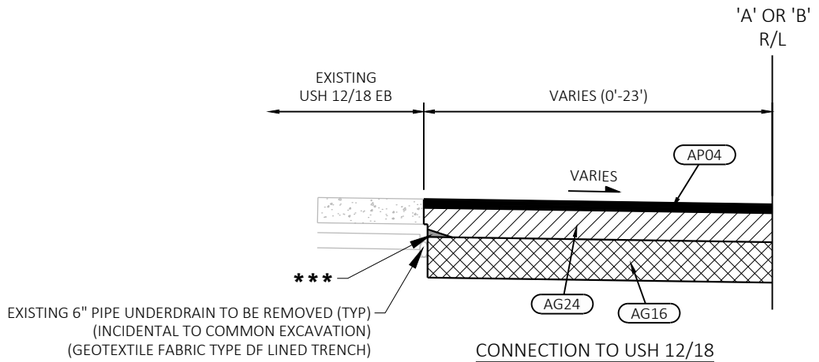


SHOULDER WIDENING LOCATIONS

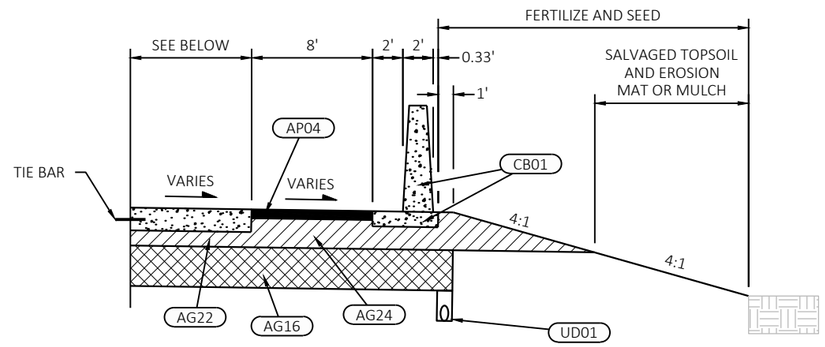
USH 12 / 18

STA 192+64'EB' TO STA 196+34'EB'
STA 198+09'EB' TO STA 200+39'EB'

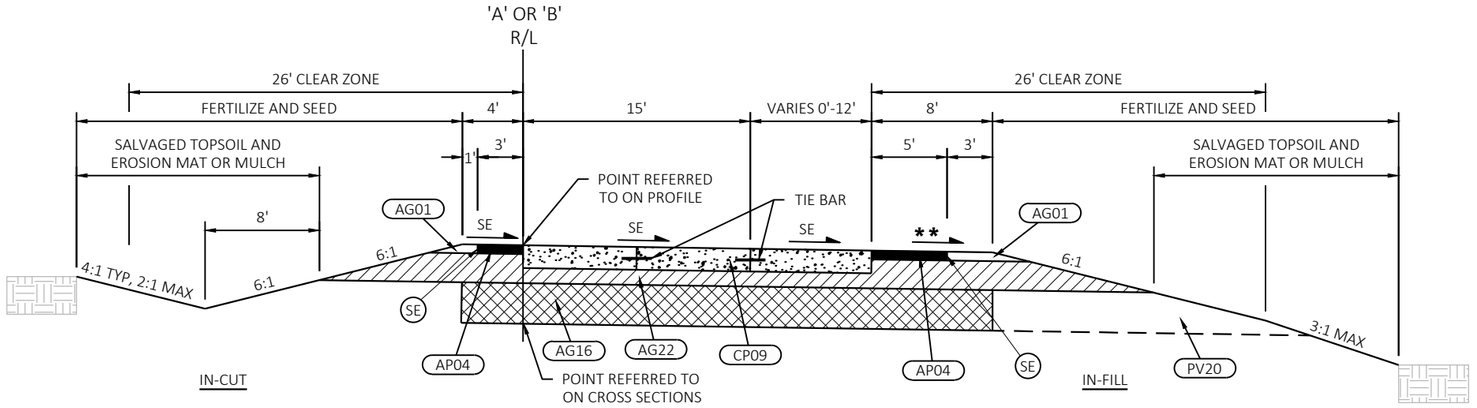
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS	SHEET 17 E



CONNECTION TO USH 12/18
STA 682+90'A' TO STA 685+66'A'
STA 709+35'B' TO STA 712+07'B'



CONCRETE BARRIER LOCATIONS
STA 680+57'A' TO STA 686+51'A'



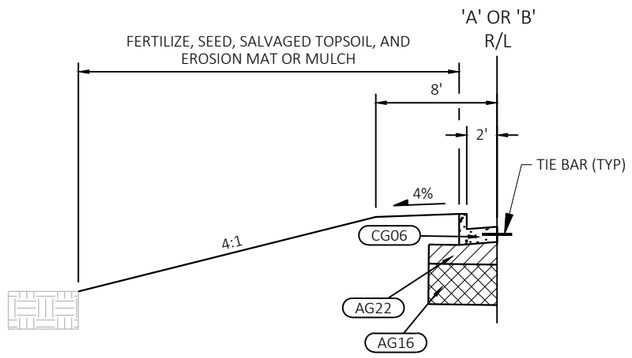
IN-CUT

IN-FILL

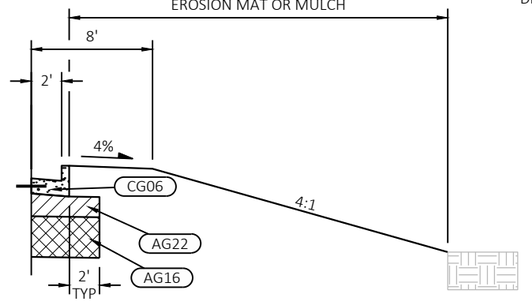
TYPICAL FINISHED SECTION - RAMPS 'A' AND 'B'
STA 680+57'A' TO STA 696+24'A'
STA 697+16'B' TO STA 711+11'B'

** THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION RATE WHEN THE SUPERELEVATION RATE IS GREATER THAN 4%. IF THE SUPERELEVATION RATE IS LESS THAN OR EQUAL TO 4%, THE LOW SIDE SHOULDER SLOPE IS 4%. HIGH SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION RATE. SEE SUPERELEVATION TABLES FOR SE.

*** SEE CONSTRUCTION DETAIL "SELECT CRUSHED MATERIAL REQUIRED TO DRAIN EXISTING OPEN GRADED BASE COURSE"



CURB & GUTTER LOCATIONS
STA 692+64'A' TO STA 696+24'A'
STA 697+25'B' TO STA 698+26'B'

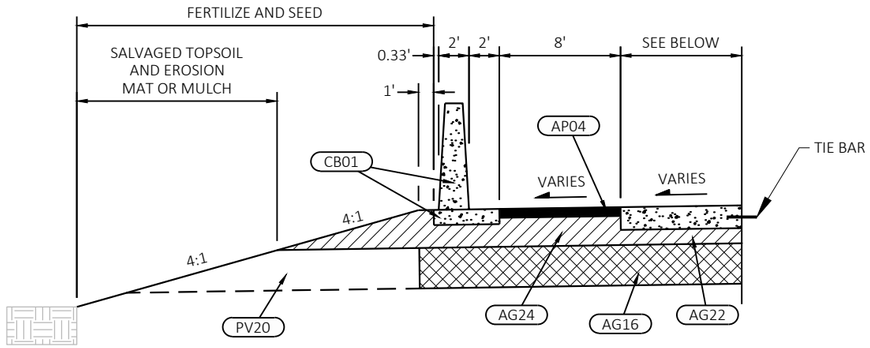


CURB & GUTTER LOCATIONS
STA 692+64'A' TO STA 696+24'A'
STA 697+25'B' TO STA 698+26'B'

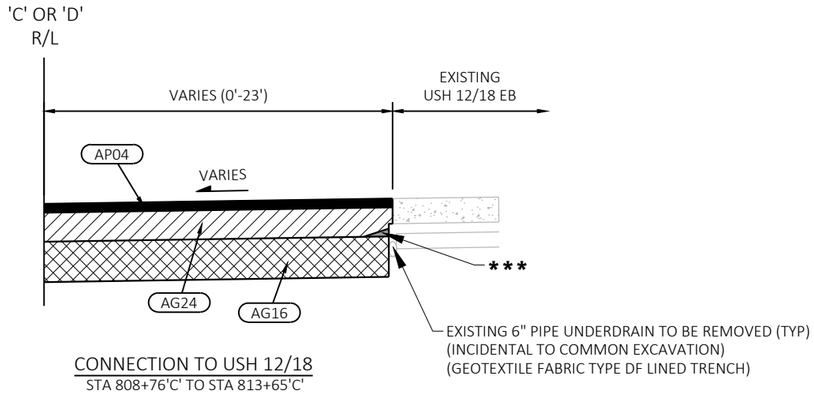
LEGEND:

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG16	SELECT CRUSHED MATERIAL, 16-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AG24	BASE AGGREGATE DENSE 1 1/4-INCH, 11.5-INCH
AP04	3.5-INCH HMA PAVEMENT
CB01	CONCRETE BARRIER TYPE S42
CG06	CONCRETE CURB & GUTTER 30-INCH TYPE A
CP09	CONCRETE PAVEMENT 9-INCH
PV20	CONSTRUCT RELIEF TRENCHES AT DITCH SAG POINTS OR EVERY 250' (SEE DETAIL)
UD01	PIPE UNDERDRAIN 6-INCH
SE	SAFETY EDGE

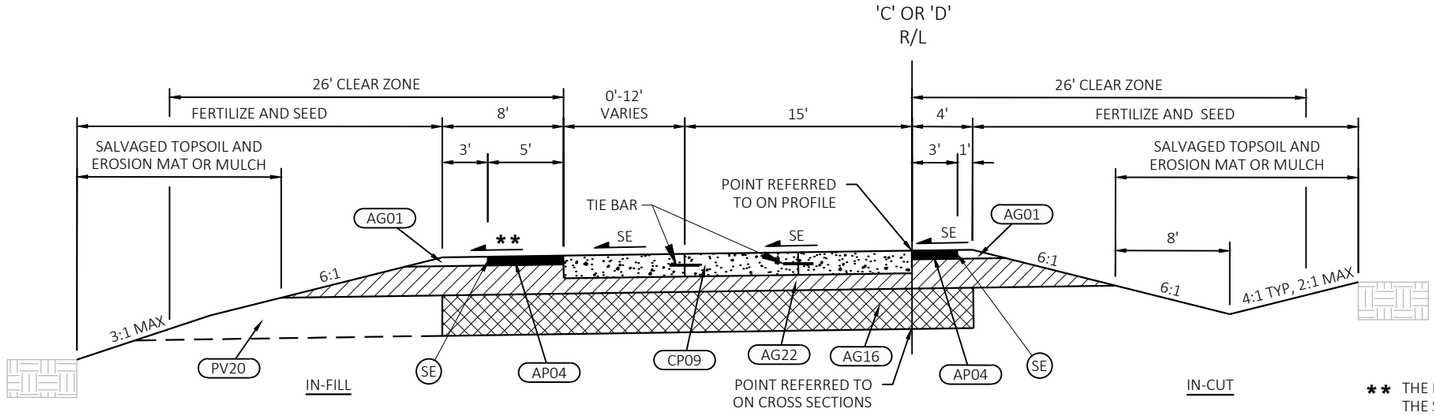
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS - RAMPS 'A' & 'B'	SHEET 18	E



CONCRETE BARRIER LOCATIONS
STA 986+00'D' TO STA 991+00'D'



CONNECTION TO USH 12/18
STA 808+76'C' TO STA 813+65'C'
STA 982+15'D' TO STA 985+03'D'



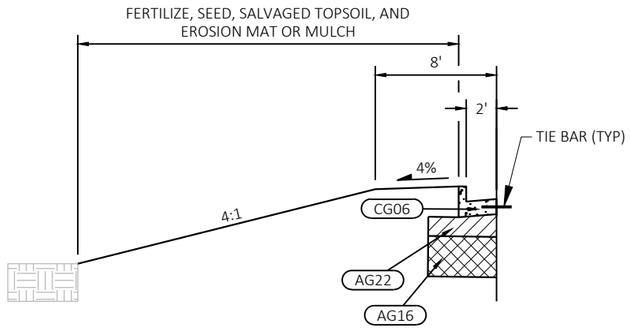
TYPICAL FINISHED SECTION - RAMPS 'C' AND 'D'
STA 798+05'C' TO STA 813+85'C'
STA 982+86'D' TO STA 996+87'D'

** THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION RATE WHEN THE SUPERELEVATION RATE IS GREATER THAN 4%. IF THE SUPERELEVATION RATE IS LESS THAN OR EQUAL TO 4%, THE LOW SIDE SHOULDER SLOPE IS 4%. HIGH SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION RATE. SEE SUPERELEVATION TABLES FOR SE.

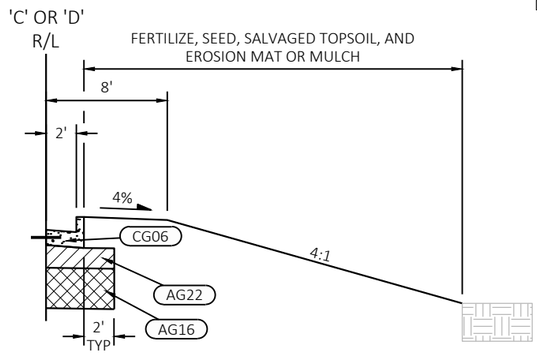
*** SEE CONSTRUCTION DETAIL "SELECT CRUSHED MATERIAL REQUIRED TO DRAIN EXISTING OPEN GRADED BASE COURSE"

LEGEND:

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG16	SELECT CRUSHED MATERIAL, 16-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AG24	BASE AGGREGATE DENSE 1 1/4-INCH, 11.5-INCH
AP04	3.5-INCH HMA PAVEMENT
CB01	CONCRETE BARRIER TYPE S42
CG06	CONCRETE CURB & GUTTER 30-INCH TYPE A
CP09	CONCRETE PAVEMENT 9-INCH
PV20	CONSTRUCT RELIEF TRENCHES AT DITCH SAG POINTS OR EVERY 250' (SEE DETAIL)
SE	SAFETY EDGE

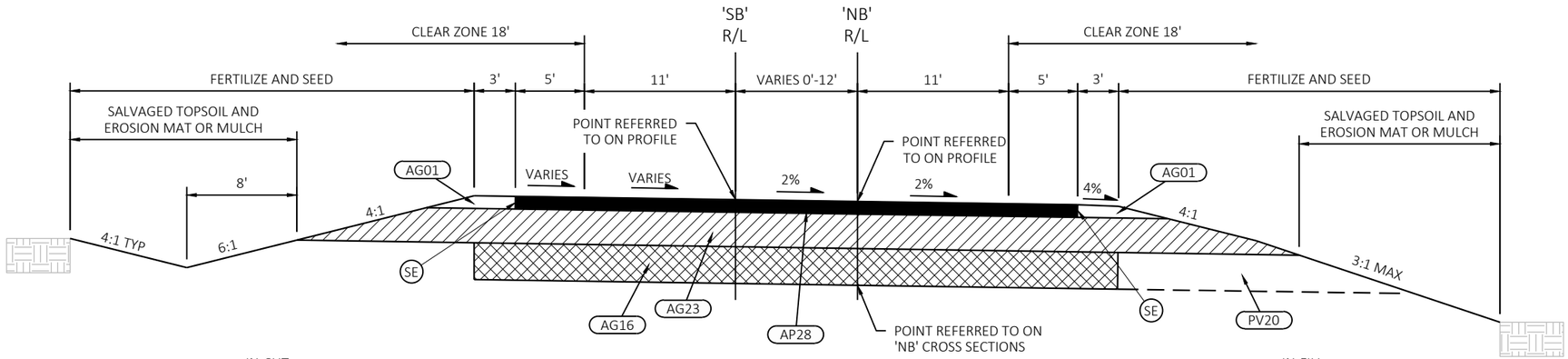


CURB & GUTTER LOCATIONS
STA 798+07'C' TO STA 801+56'C'
STA 996+03'D' TO STA 996+87'D'



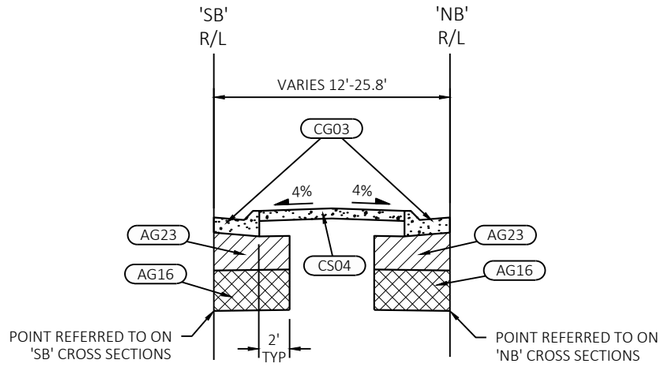
CURB & GUTTER LOCATIONS
STA 798+07'C' TO STA 801+56'C'
STA 996+03'D' TO STA 996+87'D'

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS - RAMPS 'C' & 'D'	SHEET 19 E



TYPICAL FINISHED SECTION - CTH AB

STA 500+11'NB' TO STA 506+30'NB'

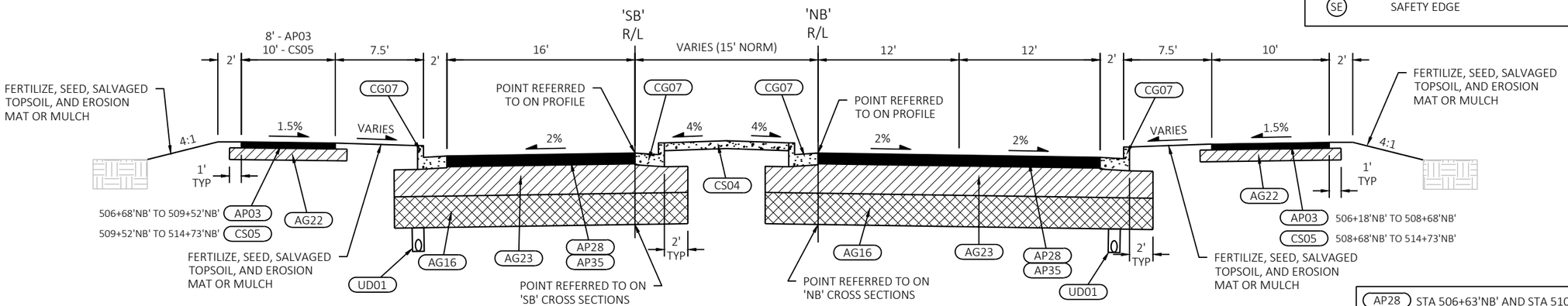


MEDIAN LOCATIONS

STA 503+61'NB' TO STA 506+30'NB'

LEGEND:

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG16	SELECT CRUSHED MATERIAL, 16-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AG23	BASE AGGREGATE DENSE 1 1/4-INCH, 15-INCH
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
AP35	5.5-INCH HMA PAVEMENT (RAB)
CG03	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CS04	CONCRETE SIDEWALK 4-INCH
CS05	CONCRETE SIDEWALK 5-INCH
PV20	CONSTRUCT RELIEF TRENCHES AT DITCH SAG POINTS OR EVERY 250' (SEE DETAIL)
UD01	PIPE UNDERDRAIN 6-INCH
SE	SAFETY EDGE

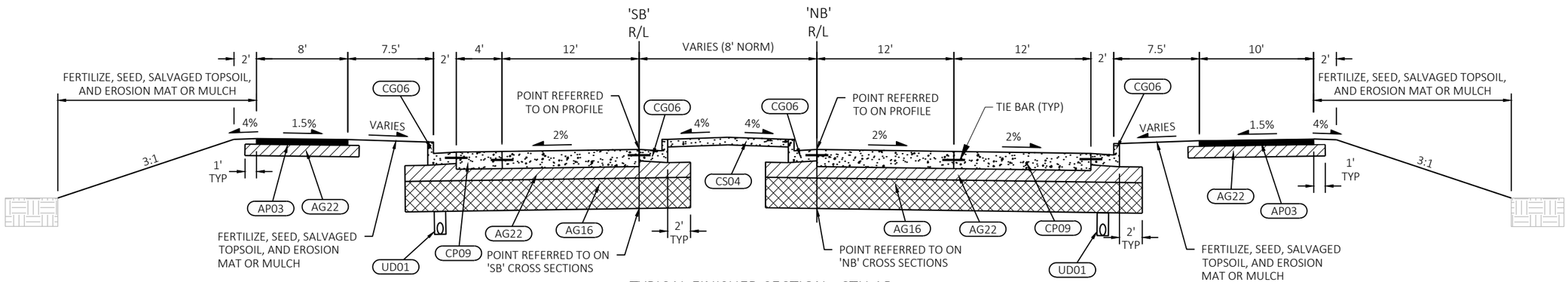


TYPICAL FINISHED SECTION - CTH AB

STA 506+30'NB' TO STA 514+73'NB'

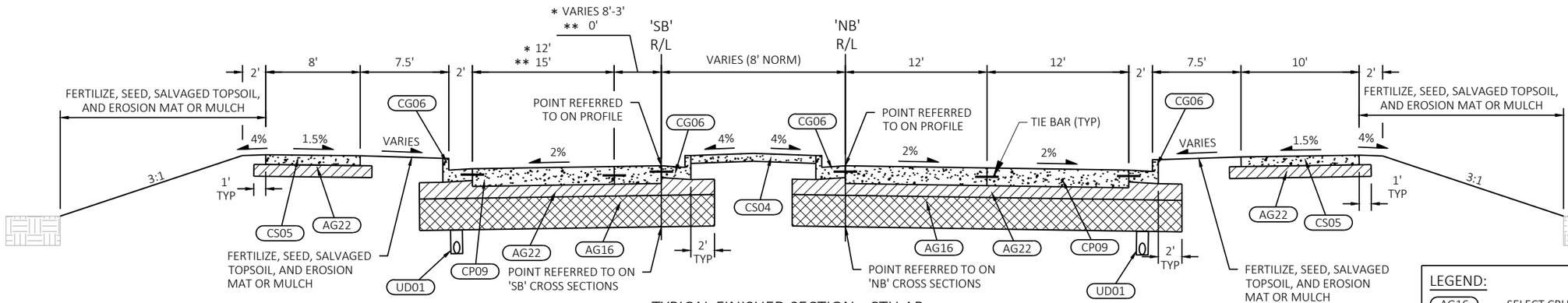
AP28 AP35 STA 506+63'NB' AND STA 510+19'NB' = BOUNDARIES BETWEEN 5.5" ASPHALT TYPES (SEE PLAN DETAILS FOR MORE BOUNDARY INFORMATION & GENERAL NOTES FOR HMA COMPOSITION)

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS - CTH AB	SHEET 20	E



TYPICAL FINISHED SECTION - CTH AB

STA 514+73'NB' TO STA 516+07'NB'



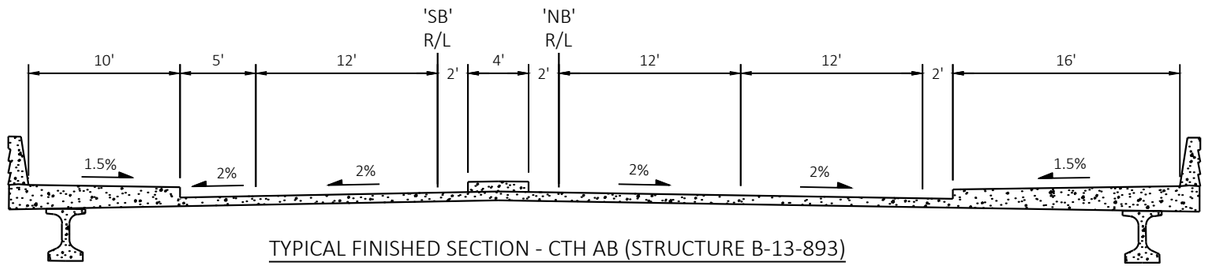
TYPICAL FINISHED SECTION - CTH AB

* STA 518+01'NB' TO STA 518+66'NB'

** STA 520+91'NB' TO STA 521+47'NB'

LEGEND:

AG16	SELECT CRUSHED MATERIAL, 16-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AP03	3.0-INCH HMA PAVEMENT
CG06	CONCRETE CURB & GUTTER 30-INCH TYPE A
CP09	CONCRETE PAVEMENT 9-INCH
CS04	CONCRETE SIDEWALK 4-INCH
CS05	CONCRETE SIDEWALK 5-INCH
UD01	PIPE UNDERDRAIN 6-INCH



TYPICAL FINISHED SECTION - CTH AB (STRUCTURE B-13-893)

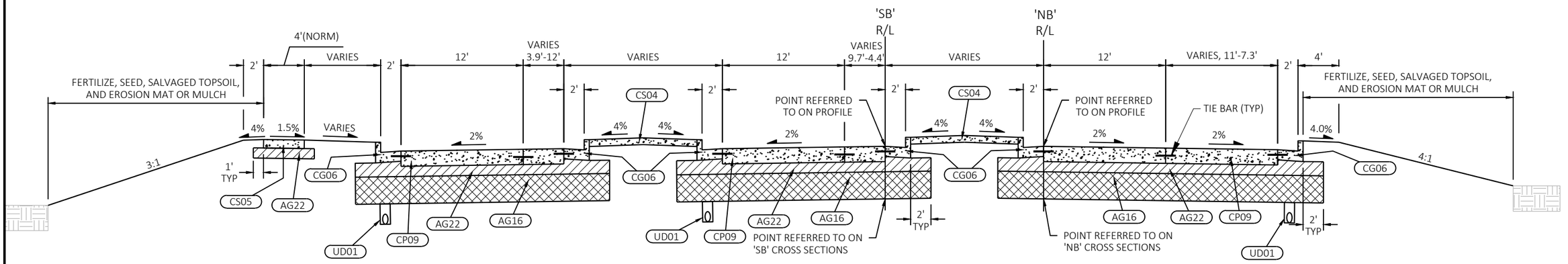
STA 519+03'NB' TO STA 520+53'NB'

NOTE: CONCRETE PAVEMENT APPROACH SLAB (SEE SDD 13B2)
STA 518+66 TO STA 518+84 AND
STA 521+47 TO STA 520+72

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS - CTH AB	SHEET 21	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_020301_TS.DWG
LAYOUT NAME - P07
PLOT DATE : 1/26/2022 3:24 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

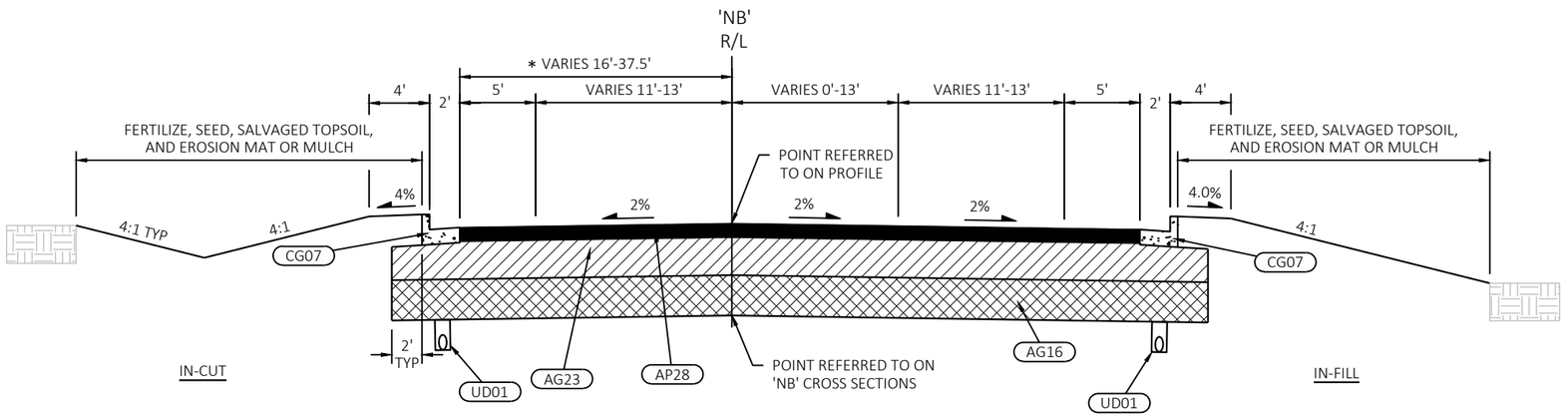


TYPICAL FINISHED SECTION - CTH AB

STA 523+29'NB' TO STA 526+80'NB'

LEGEND:

AG16	SELECT CRUSHED MATERIAL, 16-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AG23	BASE AGGREGATE DENSE 1 1/4-INCH, 15-INCH
AP28	5.5-INCH HMA PAVEMENT
CG06	CONCRETE CURB & GUTTER 30-INCH TYPE A
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CP09	CONCRETE PAVEMENT 9-INCH
CS05	CONCRETE SIDEWALK 5-INCH
UD01	PIPE UNDERDRAIN 6-INCH

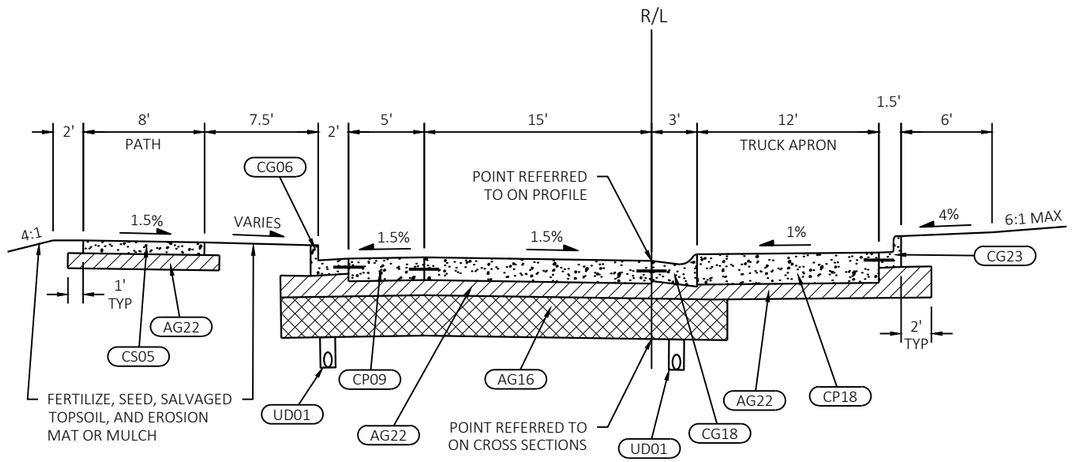


TYPICAL FINISHED SECTION - CTH AB

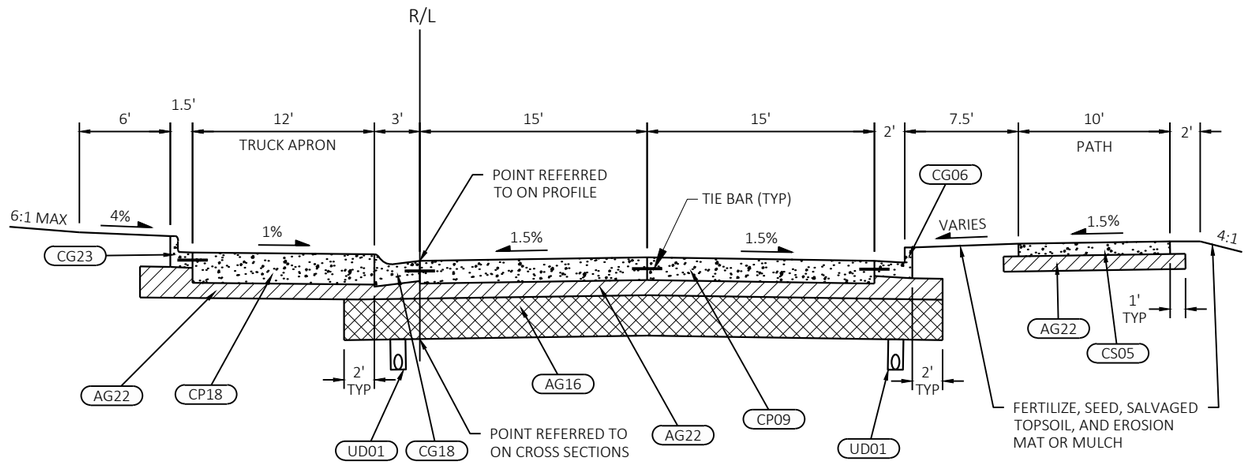
STA 526+80'NB' TO STA 539+00'NB'

* (STA 526+80'NB' TO STA 529+41'NB')

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS - CTH AB	SHEET 22	E

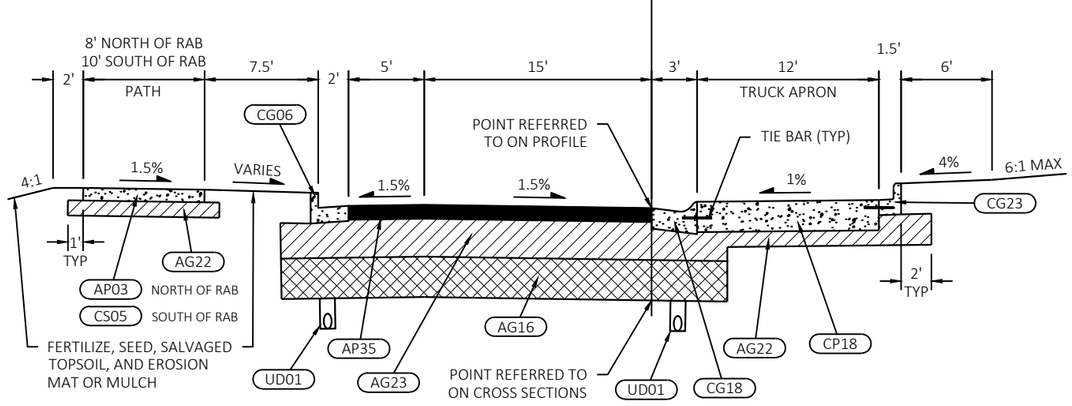


SINGLE LANE

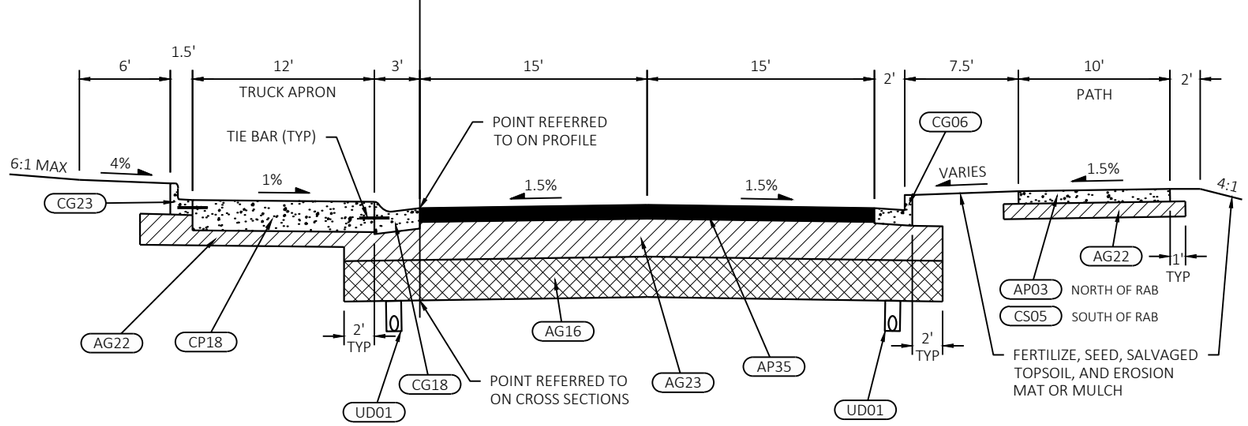


TWO LANE

TYPICAL FINISHED SECTIONS - RAMP TERMINUS ROUNDABOUTS



SINGLE LANE

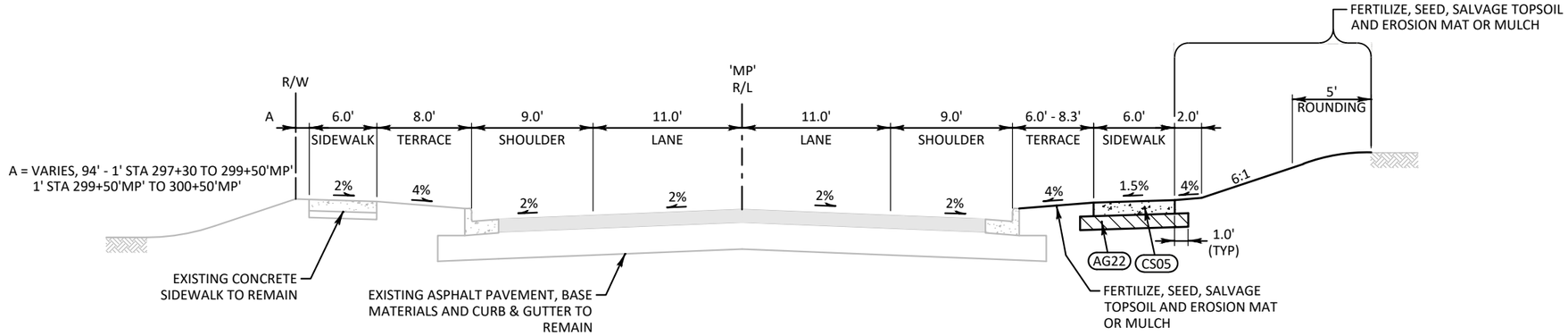


TWO LANE

TYPICAL FINISHED SECTION - CTH AB & MILLPOND ROAD ROUNDABOUT

LEGEND:

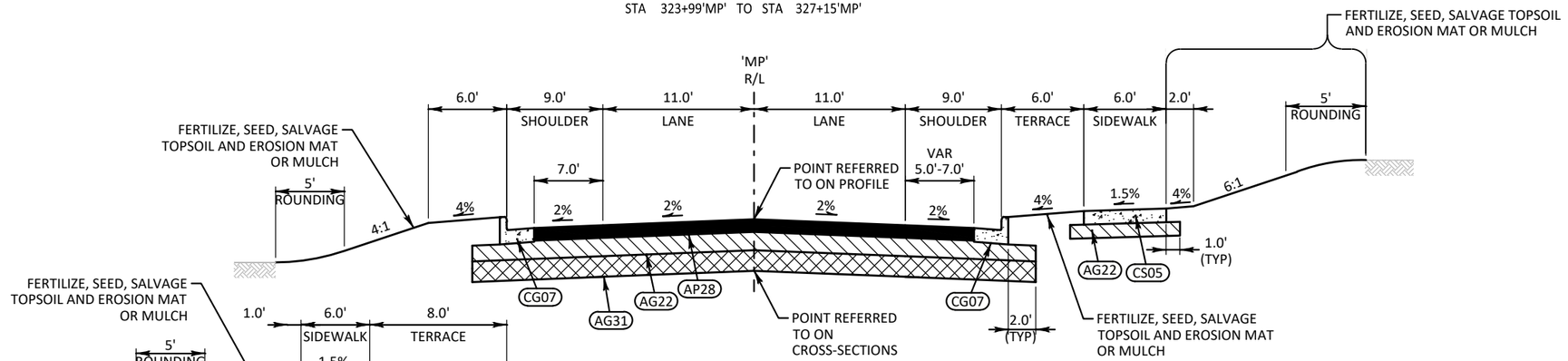
AG16	SELECT CRUSHED MATERIAL, 16-INCH	CG06	CONCRETE CURB & GUTTER 30-INCH TYPE A
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH	CG18	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
AG23	BASE AGGREGATE DENSE 1 1/4-INCH, 15-INCH	CG23	CONCRETE CURB & GUTTER 18-INCH TYPE A, REVERSE SLOPE
AG27	BASE AGGREGATE DENSE 1 1/4-INCH, 4-INCH	CP09	CONCRETE PAVEMENT 9-INCH
AP03	3.0-INCH HMA PAVEMENT	CP18	CONCRETE TRUCK APRON 12-INCH (INCL. COLORING CONCRETE WISDOT RED)
AP35	5.5-INCH HMA PAVEMENT (RAB)	CS05	CONCRETE SIDEWALK 5-INCH
		UD01	PIPE UNDERDRAIN 6-INCH



TYPICAL FINISHED SECTION

MILLPOND ROAD

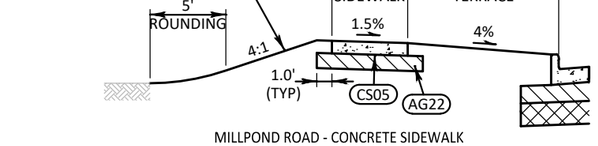
STA 323+99'MP' TO STA 327+15'MP'



TYPICAL FINISHED SECTION

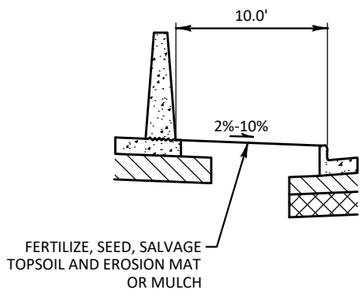
MILLPOND ROAD

STA 327+15'MP' TO STA 329+60'MP'



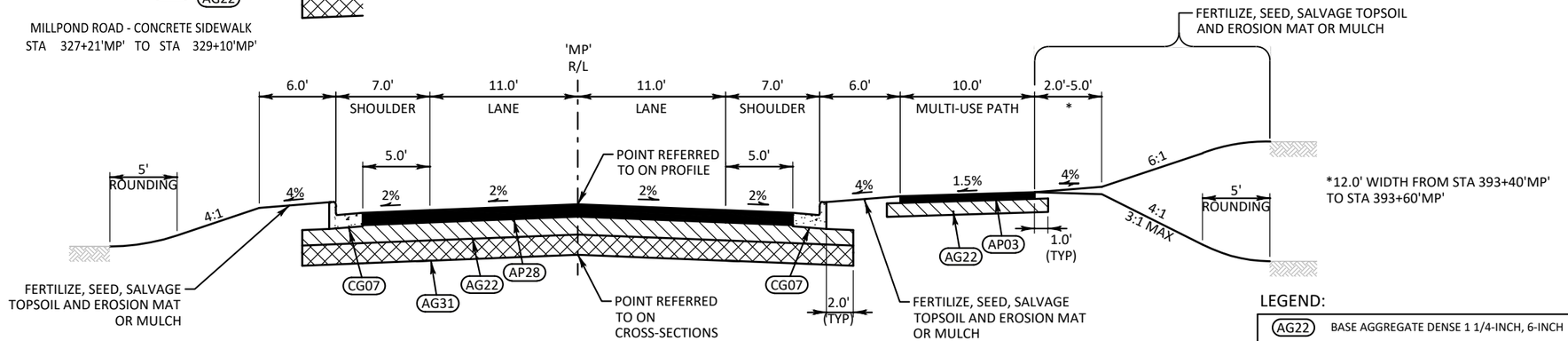
MILLPOND ROAD - CONCRETE SIDEWALK

STA 327+21'MP' TO STA 329+10'MP'



MILLPOND ROAD - LEFT TERRACE

STA 353+49'MP' TO STA 374+34'MP'



*12.0' WIDTH FROM STA 393+40'MP' TO STA 393+60'MP'

TYPICAL FINISHED SECTION

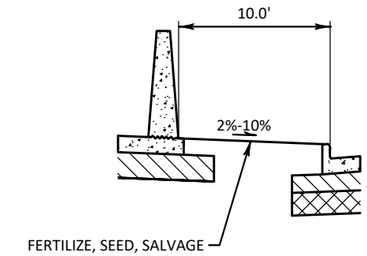
MILLPOND ROAD

STA 329+60'MP' TO STA 342+09'MP'

STA 353+49'MP' TO STA 393+74'MP'

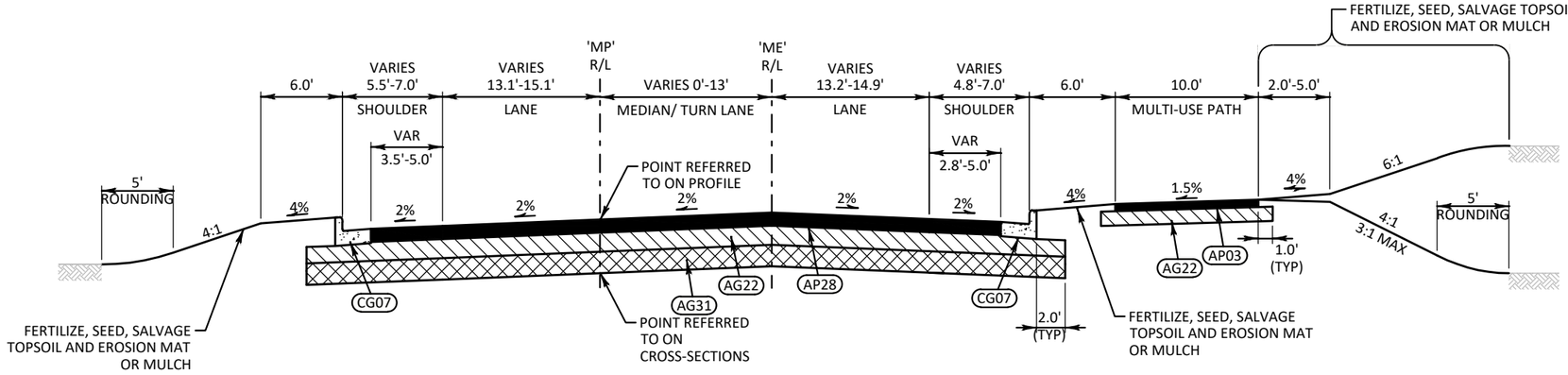
LEGEND:

AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AG31	BASE AGGREGATE DENSE 3-INCH, 9-INCH
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CS05	CONCRETE SIDEWALK 5-INCH



MILLPOND ROAD - LEFT TERRACE

STA 347+16'MP' TO STA 353+49'MP'

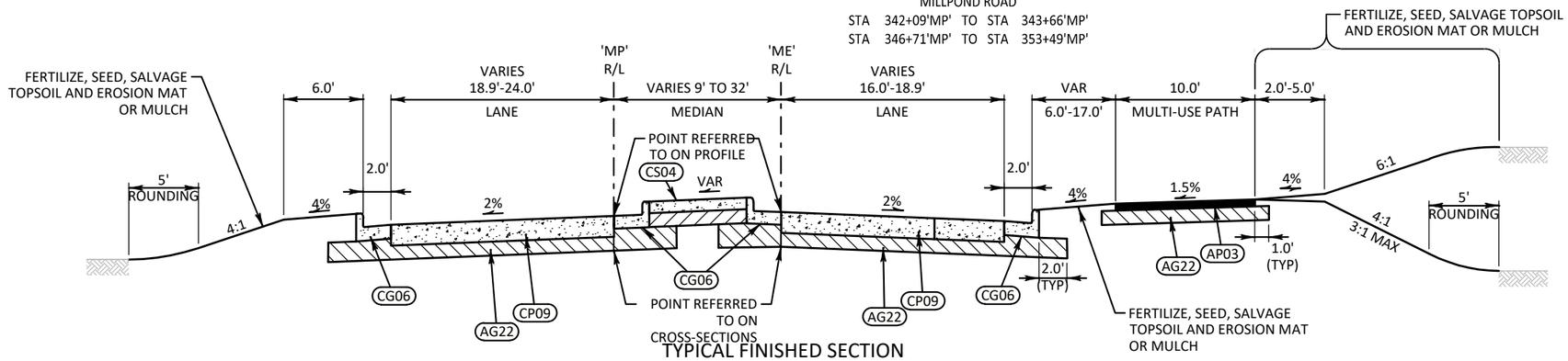


TYPICAL FINISHED SECTION

MILLPOND ROAD

STA 342+09'MP' TO STA 343+66'MP'

STA 346+71'MP' TO STA 353+49'MP'

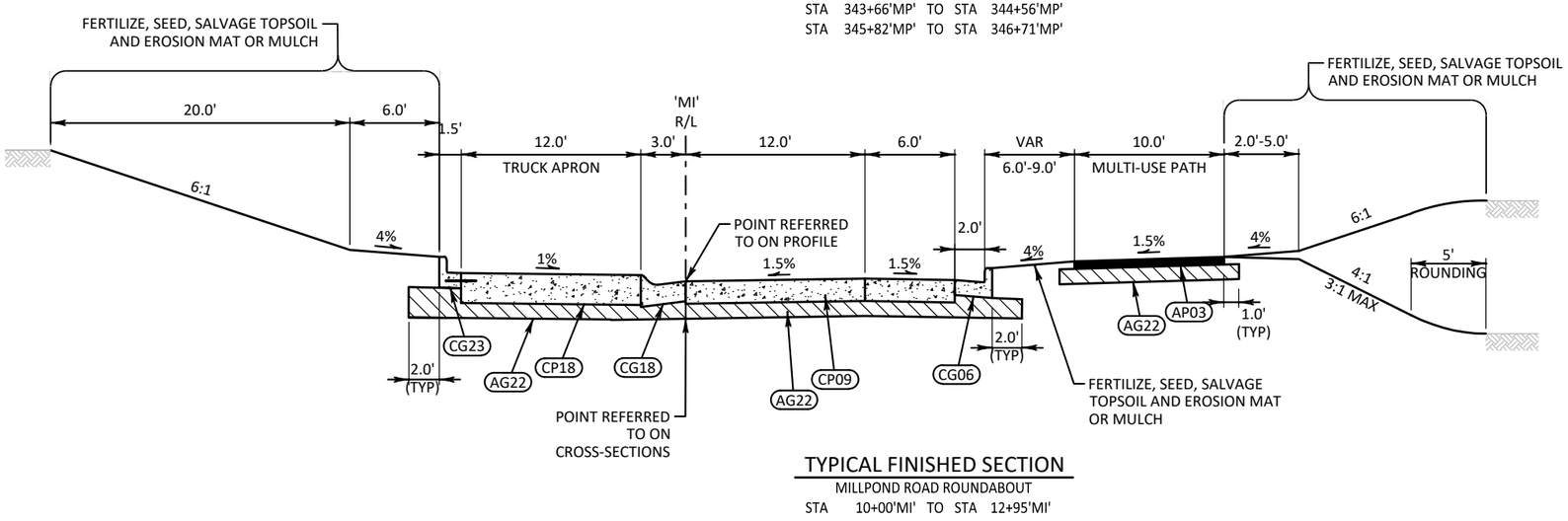


TYPICAL FINISHED SECTION

MILLPOND ROAD

STA 343+66'MP' TO STA 344+56'MP'

STA 345+82'MP' TO STA 346+71'MP'



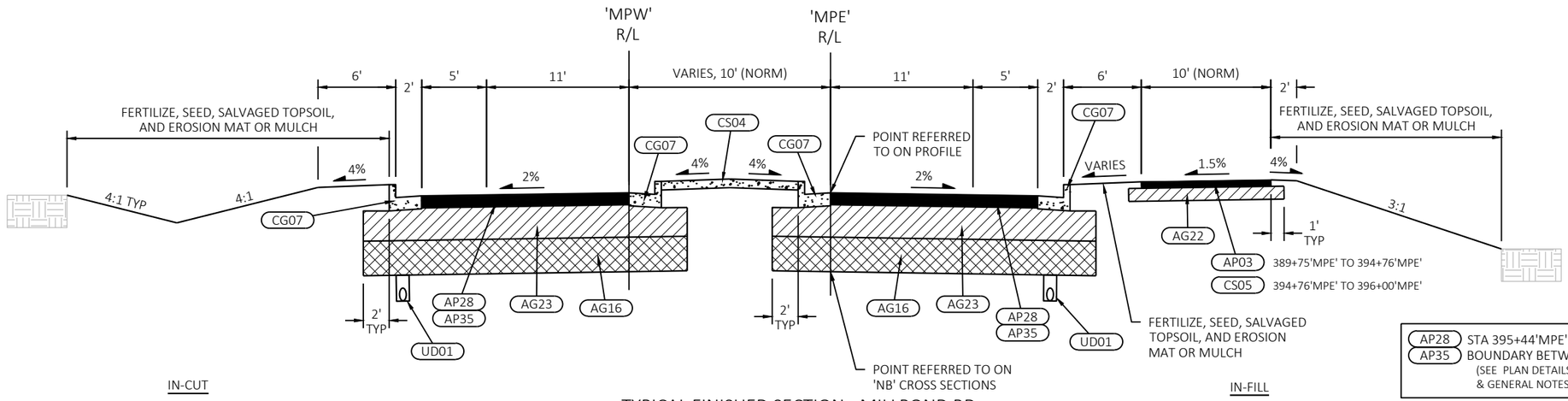
TYPICAL FINISHED SECTION

MILLPOND ROAD ROUNDABOUT

STA 10+00'MI' TO STA 12+95'MI'

LEGEND:

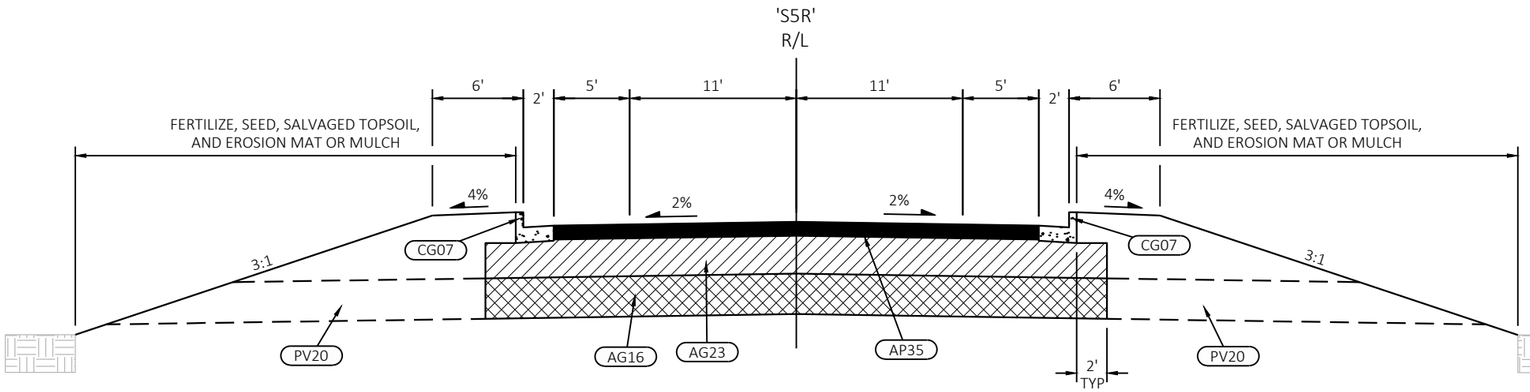
AG01	BASE AGGREGATE DENSE 3/4-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AG31	BASE AGGREGATE DENSE 3-INCH, 9-INCH
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CS04	CONCRETE SIDEWALK 4-INCH
CG06	CONCRETE CURB & GUTTER 30-INCH TYPE A
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CP09	CONCRETE PAVEMENT 9-INCH
CP18	CONCRETE TRUCK APRON 12-INCH
CG18	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
CG23	CONCRETE CURB & GUTTER 18-INCH A, REVERSE SLOPE

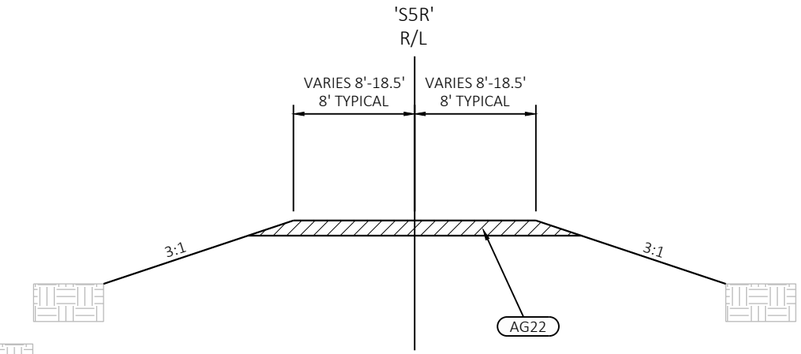


TYPICAL FINISHED SECTION - MILLPOND RD

STA 393+74.32'MPE' TO STA 396+00'MPE'

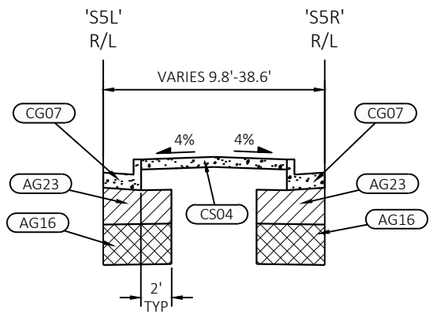
AP28 STA 395+44'MPE' =
AP35 BOUNDARY BETWEEN 5.5" HMA TYPES
(SEE PLAN DETAILS FOR MORE BOUNDARY INFORMATION & GENERAL NOTES FOR HMA COMPOSITION)





TYPICAL FINISHED SECTION - ACCESS RD

STA 399+51'S5R' TO STA 400+35'S5R'



MEDIAN LOCATIONS

STA 398+08'S5R' TO STA 398+64'S5R'

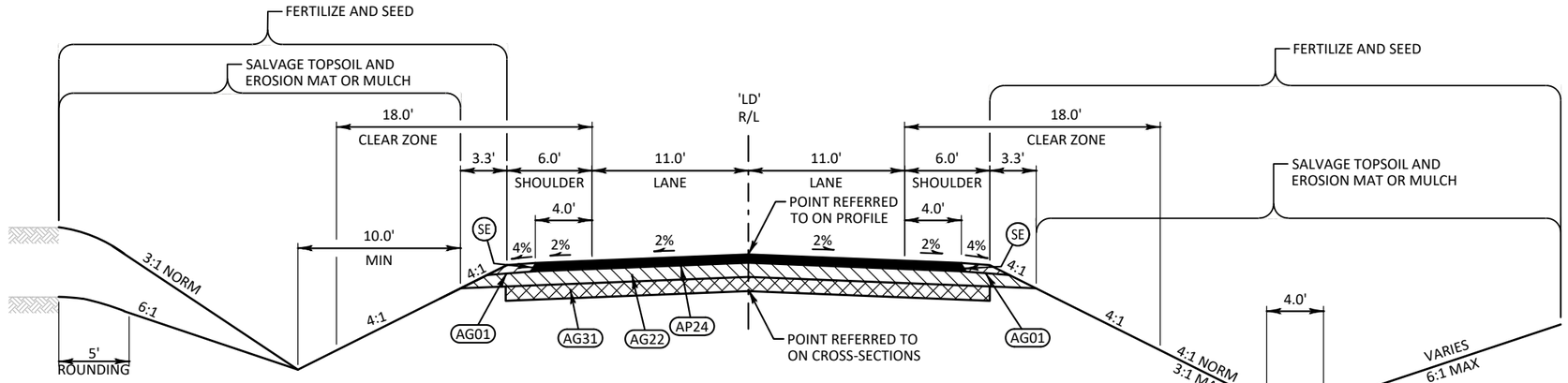
TYPICAL FINISHED SECTION - ACCESS RD

STA 398+08'S5R' TO STA 399+51'S5R'

LEGEND:

AG16	SELECT CRUSHED MATERIAL, 16-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AG23	BASE AGGREGATE DENSE 1 1/4-INCH, 15-INCH
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CS04	CONCRETE SIDEWALK 4-INCH
CS05	CONCRETE SIDEWALK 5-INCH
UD01	PIPE UNDERDRAIN 6-INCH
PV20	CONSTRUCT RELIEF TRENCHES AT DITCH SAG POINTS OR EVERY 250' (SEE DETAIL)

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS - MILLPOND ROAD	SHEET 26	E



TYPICAL FINISHED SECTION

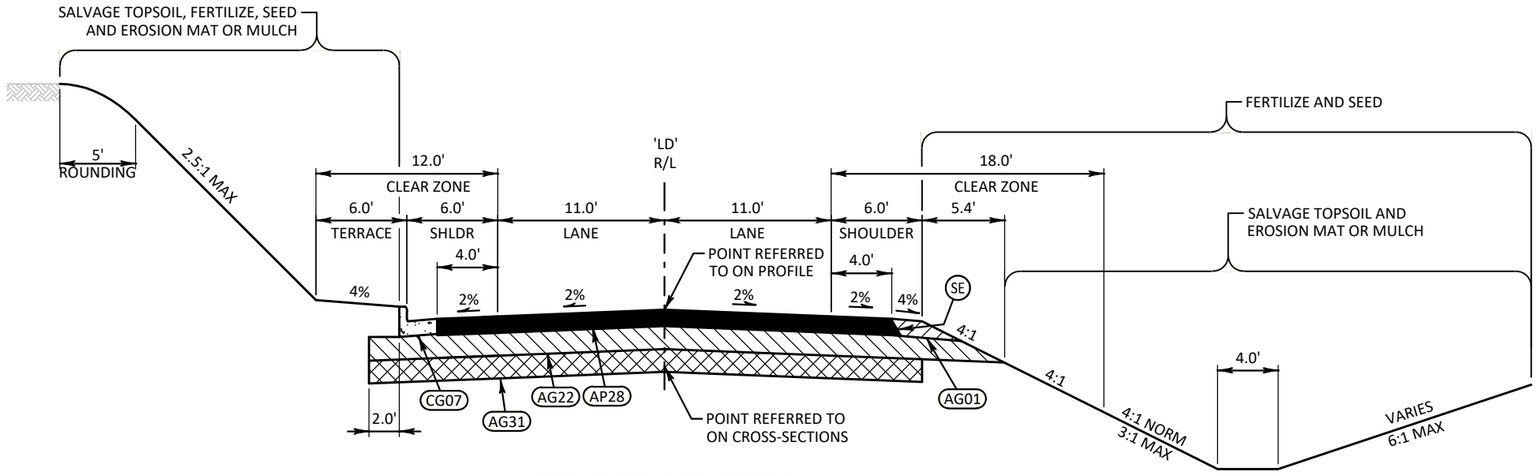
MAAHIC WAY

STA 437+75'LD' TO STA 462+55'LD'

STA 454+50'LD' TO STA 459+50'LD', SEE CONSTRUCTION DETAIL FOR SURCHARGE EARTH EMBANKMENT

LEGEND:

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AG31	BASE AGGREGATE DENSE 3-INCH, 9-INCH
AG32	BASE AGGREGATE DENSE 3-INCH, 6-INCH
AP24	3.5-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
SE	SAFETY EDGE REQ'D (INCIDENTAL)



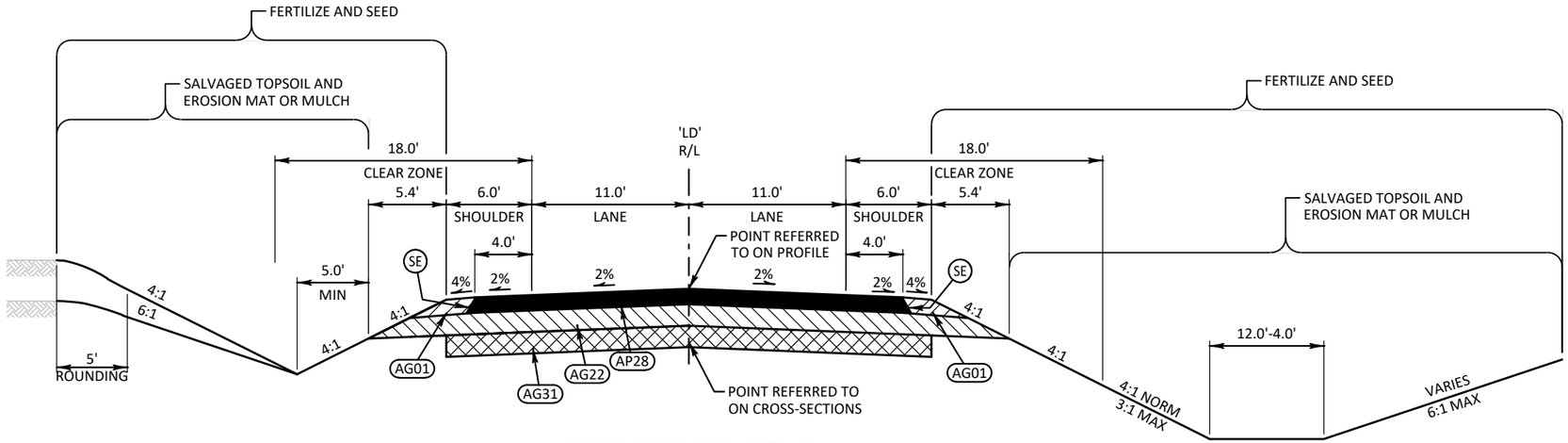
TYPICAL FINISHED SECTION

MAAHIC WAY

STA 462+55'LD' TO STA 471+00'LD'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS	SHEET 27 E

2



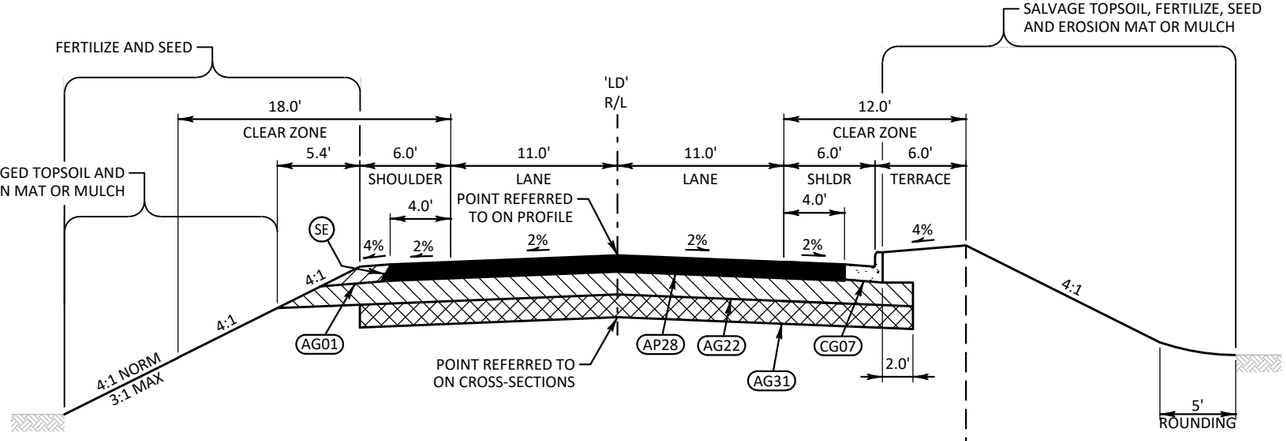
TYPICAL FINISHED SECTION

MAAHIC WAY

STA 471+00'LD' TO STA 475+00'LD'

LEGEND:

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AG31	BASE AGGREGATE DENSE 3-INCH, 9-INCH
AG32	BASE AGGREGATE DENSE 3-INCH, 6-INCH
AP24	3.5-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
SE	SAFETY EDGE REQ'D (INCIDENTAL)

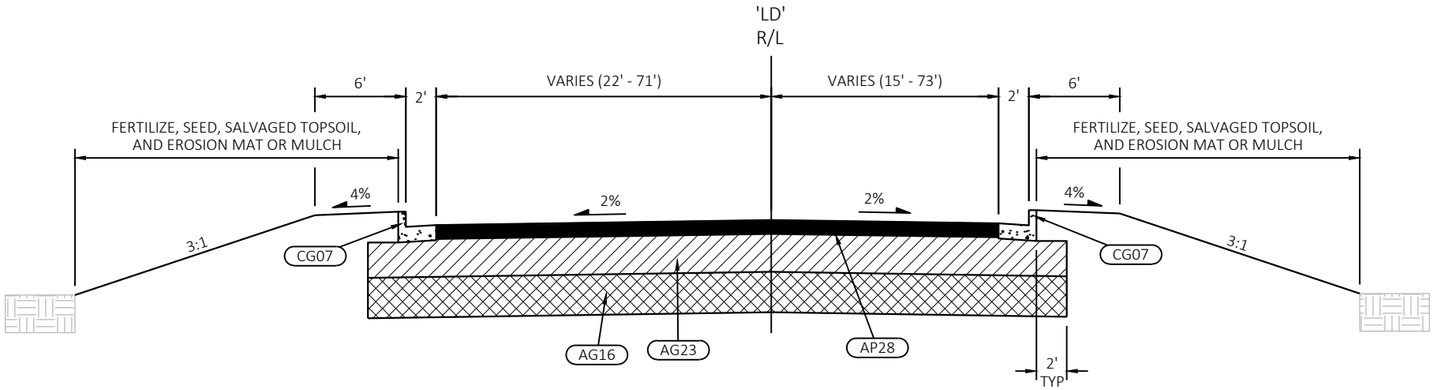


TYPICAL FINISHED SECTION

MAAHIC WAY

STA 475+00'LD' TO STA 486+21'LD'

2

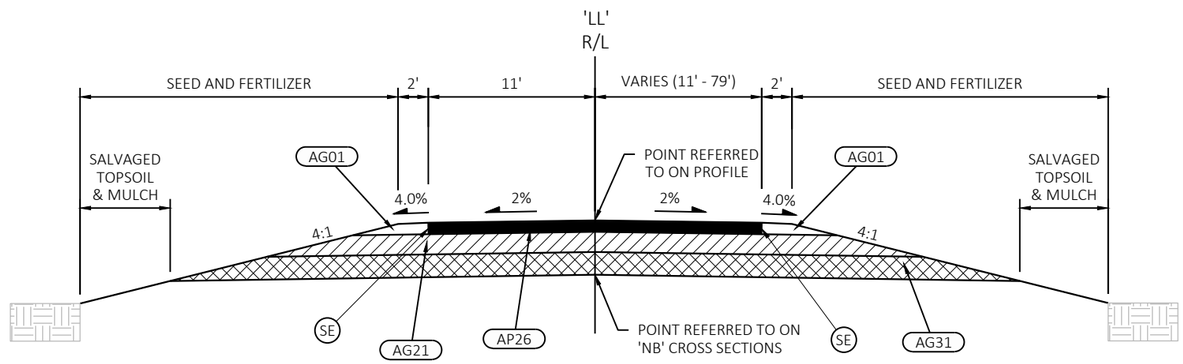


TYPICAL FINISHED SECTION - MAAHIC WAY

STA 485+65'LD' TO STA 486+28'LD'

LEGEND:

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG16	SELECT CRUSHED MATERIAL, 16-INCH
AG21	BASE AGGREGATE DENSE 1 1/4-INCH, 8-INCH
AG23	BASE AGGREGATE DENSE 1 1/4-INCH, 15-INCH
AG31	BASE AGGREGATE DENSE 3-INCH, 9-INCH
AP26	4.5-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
SE	SAFETY EDGE

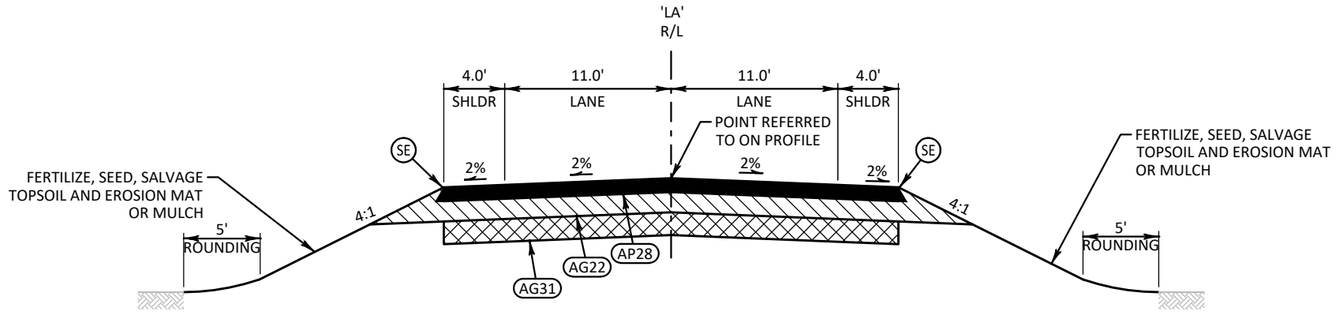


TYPICAL FINISHED SECTION - LUDS LANE

STA 528+50'LL' TO STA 536+35'LL'

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS - USH 12/18 SERVICE ROAD & LUDS LN	SHEET 29	E

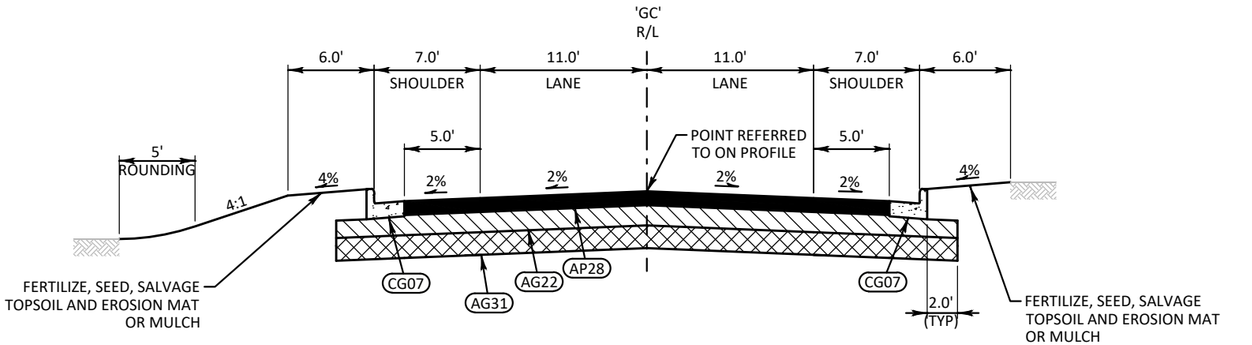
2



TYPICAL FINISHED SECTION

LANDFILL ACCESS ROAD

STA 10+00'LA' TO STA 11+79'LA'



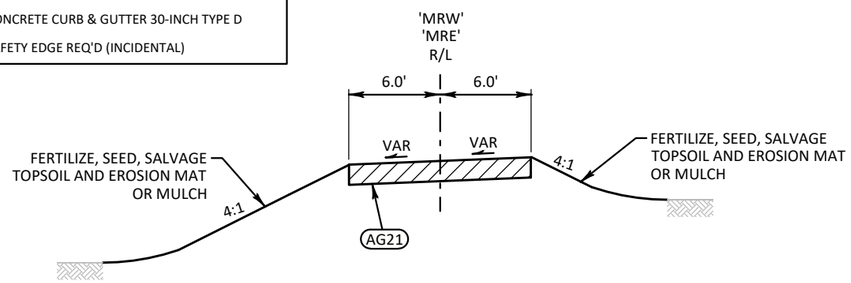
TYPICAL FINISHED SECTION

GOLF COURSE ACCESS

STA 8+97'GC' TO STA 10+00'GC'

LEGEND:

AG21	BASE AGGREGATE DENSE 1 1/4-INCH, 8-INCH
AG22	BASE AGGREGATE DENSE 1 1/4-INCH, 6-INCH
AG31	BASE AGGREGATE DENSE 3-INCH, 9-INCH
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
SE	SAFETY EDGE REQ'D (INCIDENTAL)

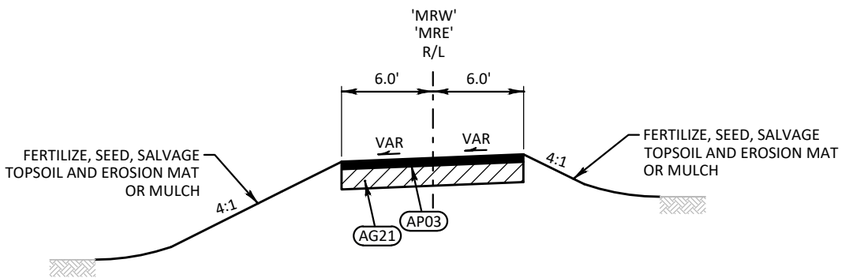


TYPICAL FINISHED SECTION

MAINTENANCE ROAD (GOLF COURSE)

STA 58+83'MRW' TO STA 63+62'MRW'

STA 369+70'MRE' TO STA 385+35'MRE'



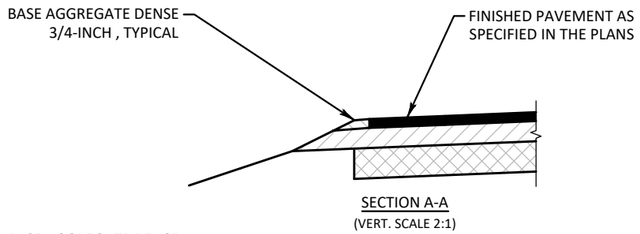
TYPICAL FINISHED SECTION

MAINTENANCE ROAD (GOLF COURSE)

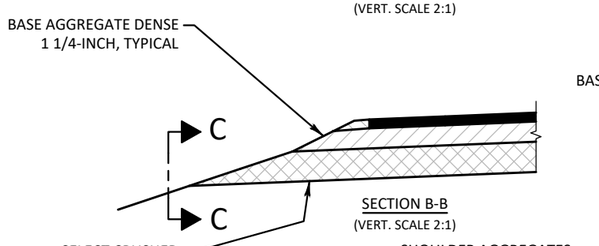
PAVED SPILLWAY

STA 375+20'MRE' TO STA 377+25'MRE'

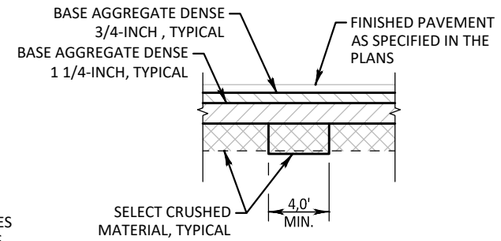
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS	SHEET 30 E



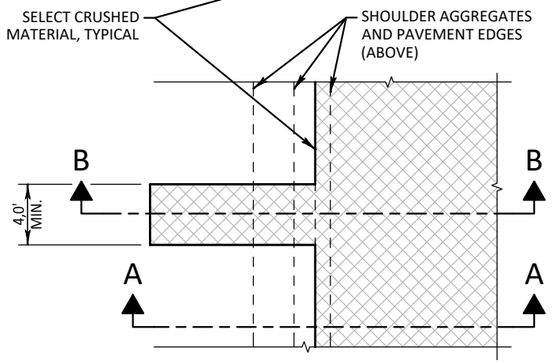
SECTION A-A
(VERT. SCALE 2:1)



SECTION B-B
(VERT. SCALE 2:1)



SECTION C-C
(VERT. SCALE 2:1)



PLAN VIEW
(VIEW PLANE AT TOP OF SELECT
CRUSHED MATERIAL)

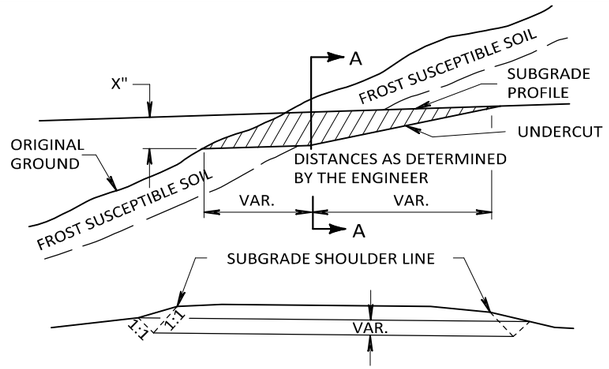
RELIEF TRENCH

NOTE:

CONSTRUCT RELIEF TRENCHES AT 200'-300' INTERVALS AND AT PROFILE SAG POINTS (LEFT AND RIGHT).

FINAL LOCATIONS TO BE APPROVED OR DETERMINED BY THE ENGINEER IN THE FIELD.

MATERIALS AND LABOR FOR RELIEF TRENCH ARE INCLUDED IN THE SELECT CRUSHED MATERIAL BID ITEM.



SECTION A-A
CROSS SECTION SHOWING UNDERCUT

EXCAVATION BELOW SUBGRADE (EBS) AT CUTS

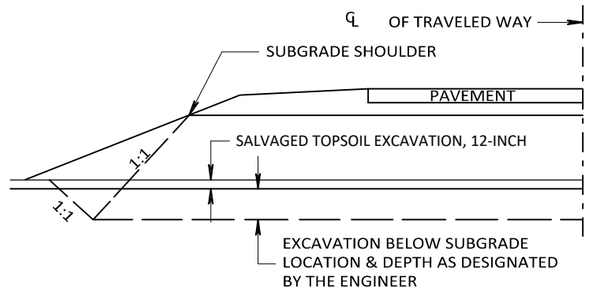
NOTE:

EXACT LOCATIONS AND EXTENT OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

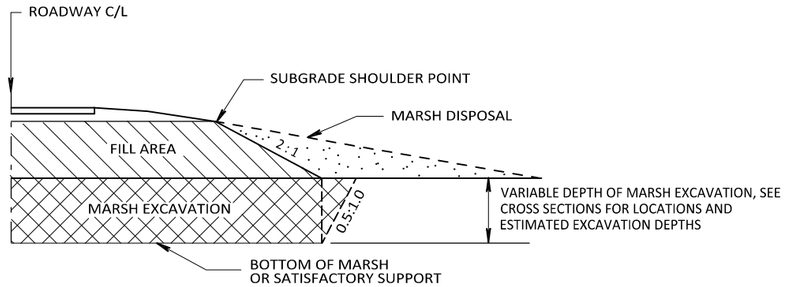
BACKFILL EBS WITH SUITABLE FILL MATERIAL.

THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL EBS IS COMPLETED.

2



EXCAVATION BELOW SUBGRADE

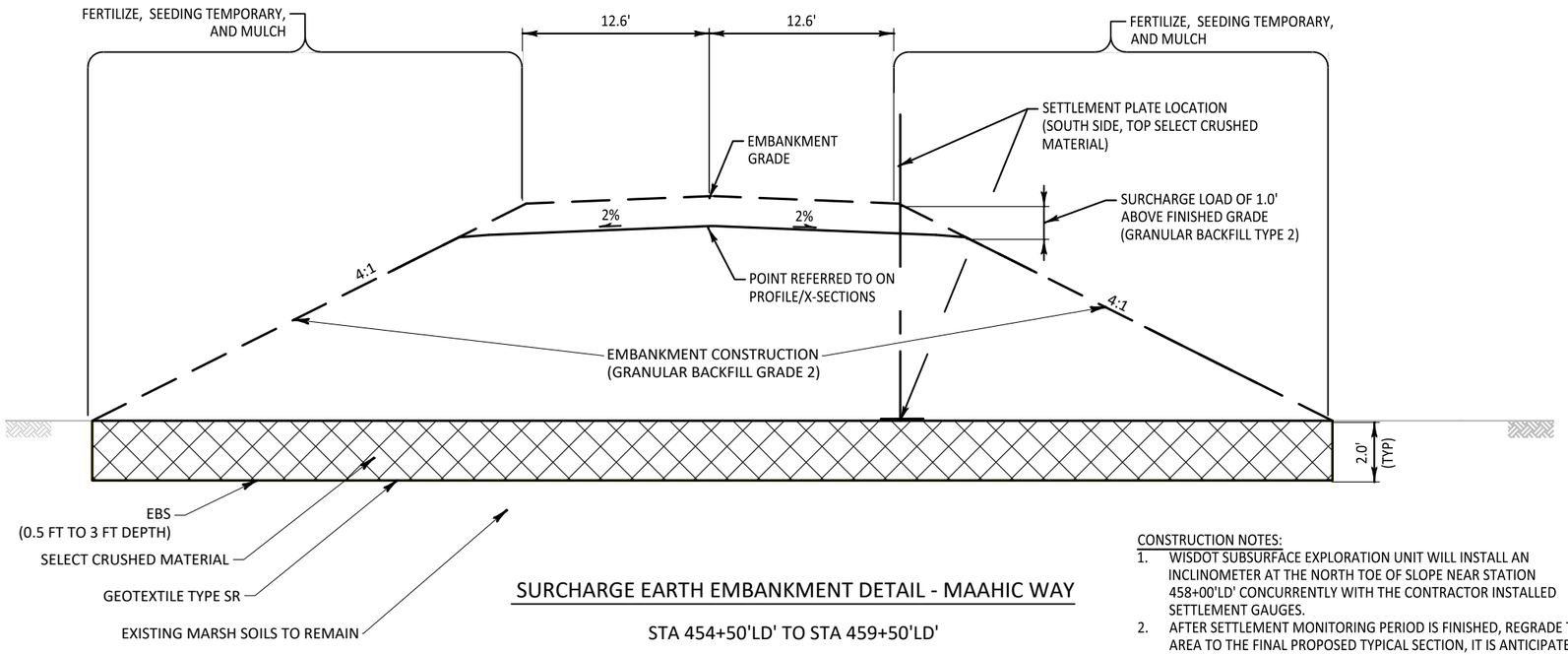


NOTE:

MARSH EXCAVATION SHALL BE REPLACED WITH GRANULAR BACKFILL.

MARSH DISPOSAL SHALL NOT BE PLACED IN THE MEDIAN.

MARSH EXCAVATION

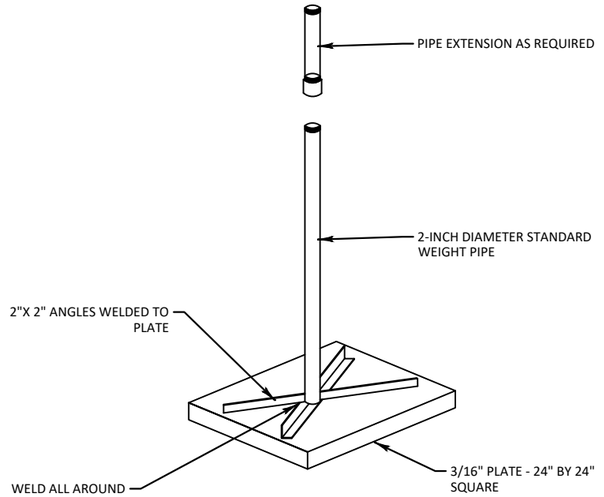


SURCHARGE EARTH EMBANKMENT DETAIL - MAAHIC WAY

STA 454+50'LD' TO STA 459+50'LD'

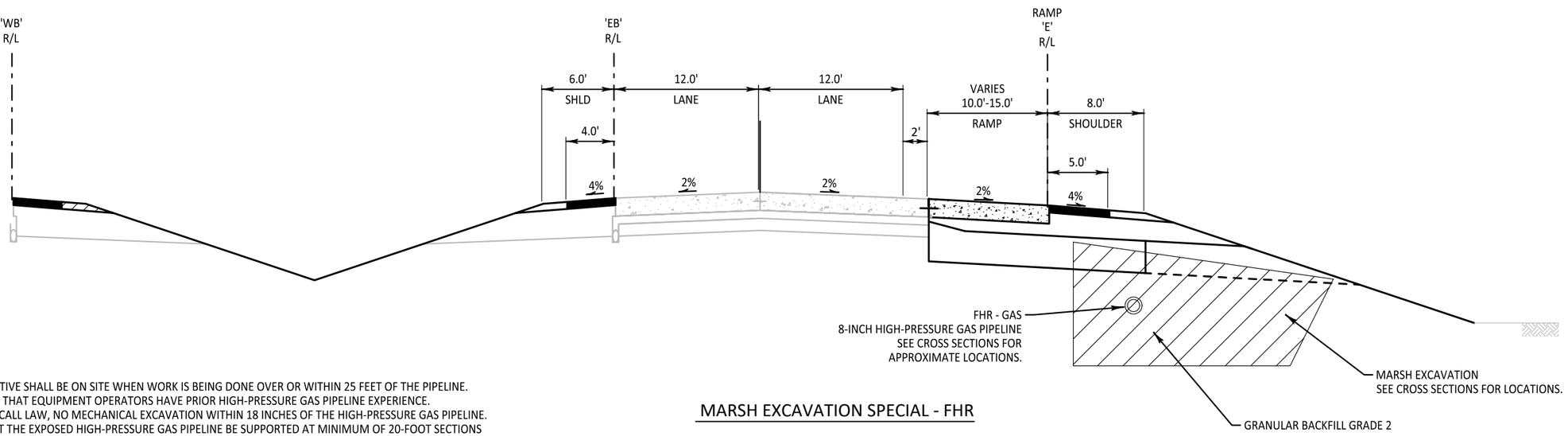
CONSTRUCTION NOTES:

1. WISDOT SUBSURFACE EXPLORATION UNIT WILL INSTALL AN INCLINOMETER AT THE NORTH TOE OF SLOPE NEAR STATION 458+00'LD' CONCURRENTLY WITH THE CONTRACTOR INSTALLED SETTLEMENT GAUGES.
2. AFTER SETTLEMENT MONITORING PERIOD IS FINISHED, REGRADE THE AREA TO THE FINAL PROPOSED TYPICAL SECTION, IT IS ANTICIPATED ADDITIONAL FILL MATERIAL WILL BE REQUIRED



TYPICAL SETTLEMENT PLATE DETAIL

STA 455+00'LD', STA 456+00'LD', STA 457+00'LD', STA 458+00'LD', & STA 459+00'LD'



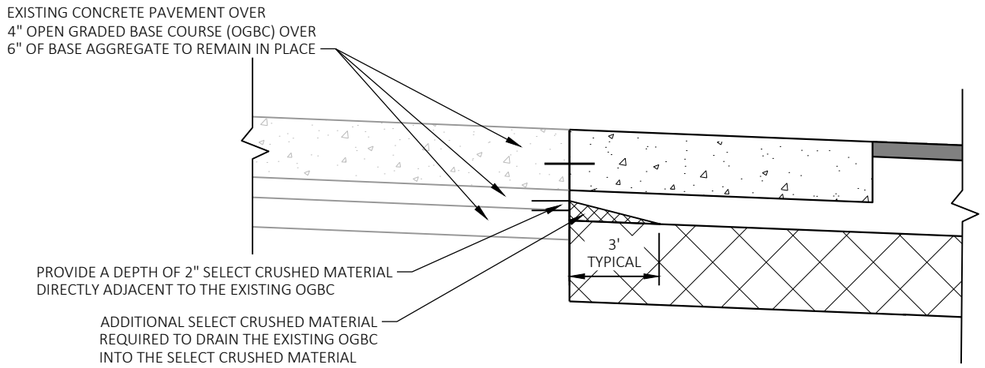
MARSH EXCAVATION SPECIAL - FHR

STA 33+50'E' TO STA 42+50'E'

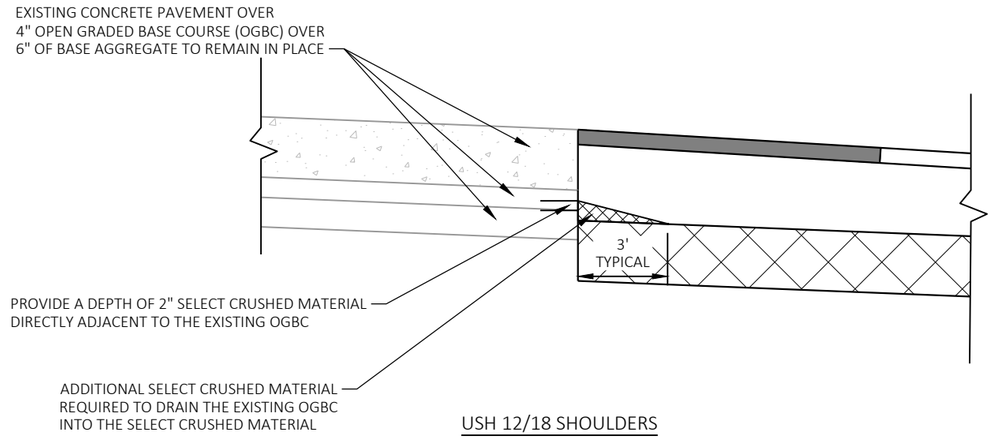
CONSTRUCTION NOTES:

1. A FHR REPRESENTATIVE SHALL BE ON SITE WHEN WORK IS BEING DONE OVER OR WITHIN 25 FEET OF THE PIPELINE.
2. FHR RECOMMENDS THAT EQUIPMENT OPERATORS HAVE PRIOR HIGH-PRESSURE GAS PIPELINE EXPERIENCE.
3. PER WI STATE ONE CALL LAW, NO MECHANICAL EXCAVATION WITHIN 18 INCHES OF THE HIGH-PRESSURE GAS PIPELINE.
4. FHR REQUIRES THAT THE EXPOSED HIGH-PRESSURE GAS PIPELINE BE SUPPORTED AT MINIMUM OF 20-FOOT SECTIONS DURING EXCAVATION WORK, TYPICALLY SUPPORTED WITH WOODEN OR EARTHEN MATERIALS OR OTHER SUITABLE MEANS.
5. BACKFILL MATERIAL AROUND HIGH-PRESSURE GAS PIPELINE TO BE GRANULAR BACKFILL GRADE 2.
6. COMPACT BACKFILL AROUND HIGH-PRESSURE GAS PIPELINE USING 1-FOOT LIFTS.

2

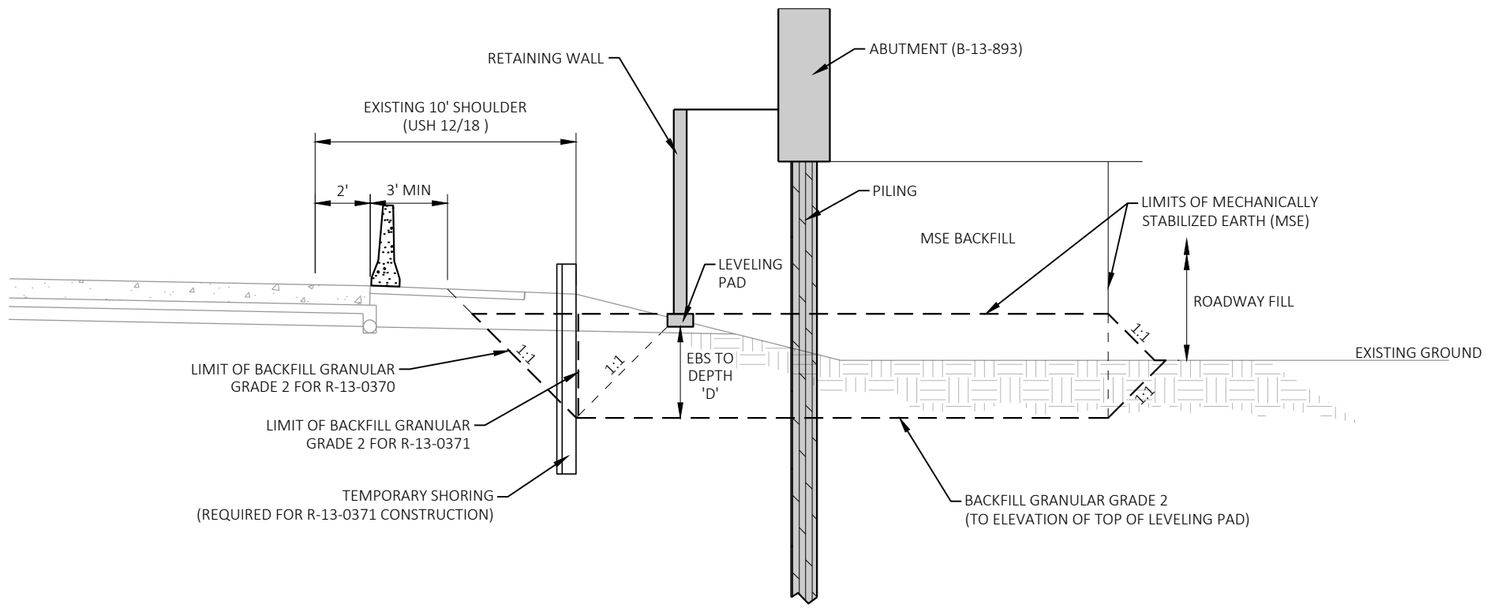


RAMP E



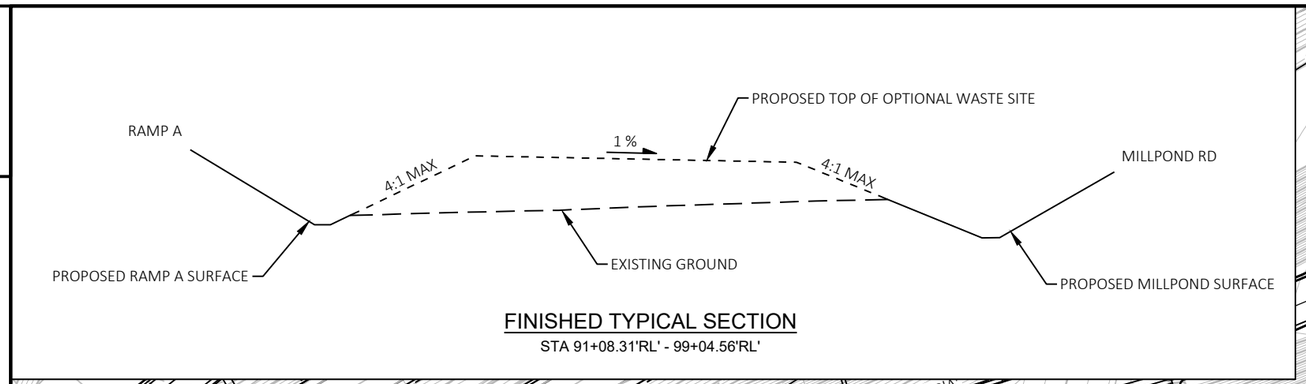
USH 12/18 SHOULDERS

SELECT CRUSHED MATERIAL REQUIRED TO DRAIN EXISTING OPEN GRADED BASE COURSE



EBS AND BACKFILL AT RETAINING WALLS

R-13-0370 (FACING EAST) ('D' = 5.5')
R-13-0371 (FACING WEST) ('D' = 8')



FINISHED TYPICAL SECTION

STA 91+08.31'RL' - 99+04.56'RL'

RAMP A

US 12/18

CTH AB

MILLPOND RD

OPTIONAL WASTE SITE GRADING LIMITS

ROADWAY GRADING LIMITS

ROADWAY & OPTIONAL WASTE SITE GRADING LIMITS

OPTIONAL WASTE SITE
(SEE MILLPOND INFIELD CROSS-SECTIONS FOR FURTHER DETAILS)

1 %

STA 89+98.37'RL'
Y = 470,289.652
X = 857,844.321

STA 101+75.07'RL'
Y = 469,405.302
X = 858,620.561

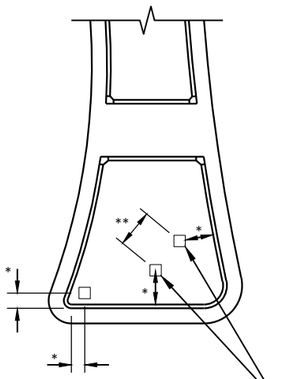
685+00'A' 686+00'A' 687+00'A' 688+00'A' 689+00'A' 690+00'A' 691+00'A' 694+00'A' 695+00'A' 696+00'A'

385+00'MPE' 386+00'MPE' 387+00'MPE' 388+00'MPE' 389+00'MPE' 390+00'MPE' 391+00'MPE' 392+00'MPE' 393+00'MPE' 394+00'MPE' 395+00'MPE' 396+00'MPE'

90+00'RL' 91+00'RL' 92+00'RL' 93+00'RL' 94+00'RL' 95+00'RL' 96+00'RL' 97+00'RL' 98+00'RL' 99+00'RL' 100+00'RL' 101+00'RL'

510+00'SB' 511+00'SB' 512+00'SB' 513+00'SB' 514+00'SB' 515+00'SB' 516+00'SB'

N

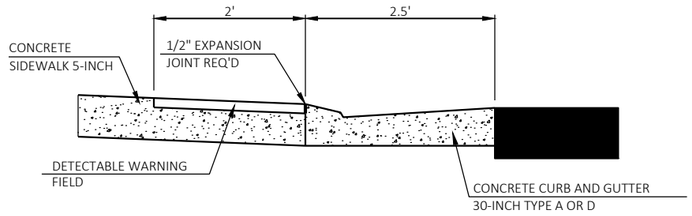


PLACE 16" X 16" BOX OUT IN CONCRETE FOR SIGN POST (TYP). THE NUMBER OF BOX OUTS REQUIRED VARIES BY WIDTH OF THE SIGN AND SHALL BE VERIFIED BEFORE PLACING THE CONCRETE IN THE ISLAND.

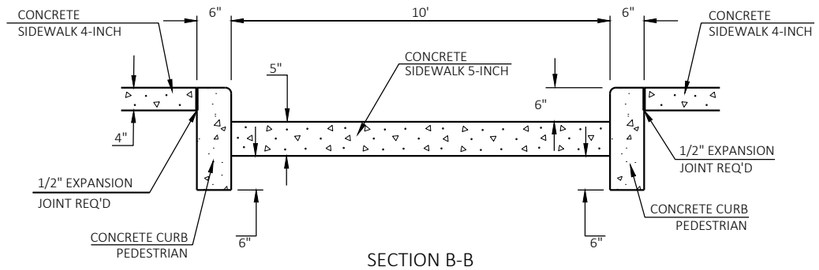
ISLAND SIGN LOCATION DETAIL (TYP)

* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB.

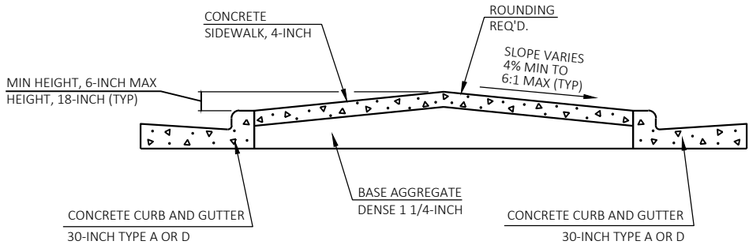
** SEE A4-4 SIGN PLATE FOR POST SPACING REQUIREMENTS.



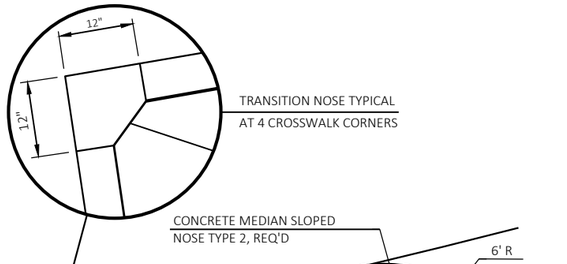
SECTION A-A

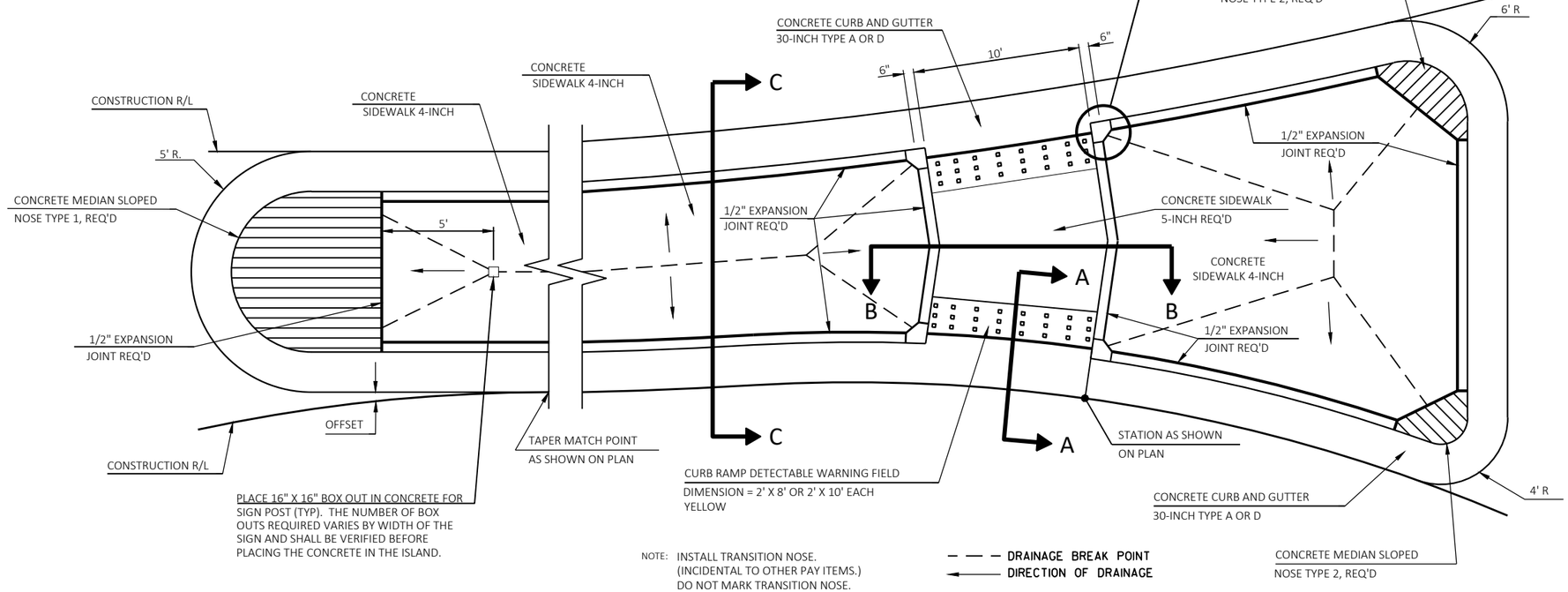


SECTION B-B



SECTION C-C





PLACE 16" X 16" BOX OUT IN CONCRETE FOR SIGN POST (TYP). THE NUMBER OF BOX OUTS REQUIRED VARIES BY WIDTH OF THE SIGN AND SHALL BE VERIFIED BEFORE PLACING THE CONCRETE IN THE ISLAND.

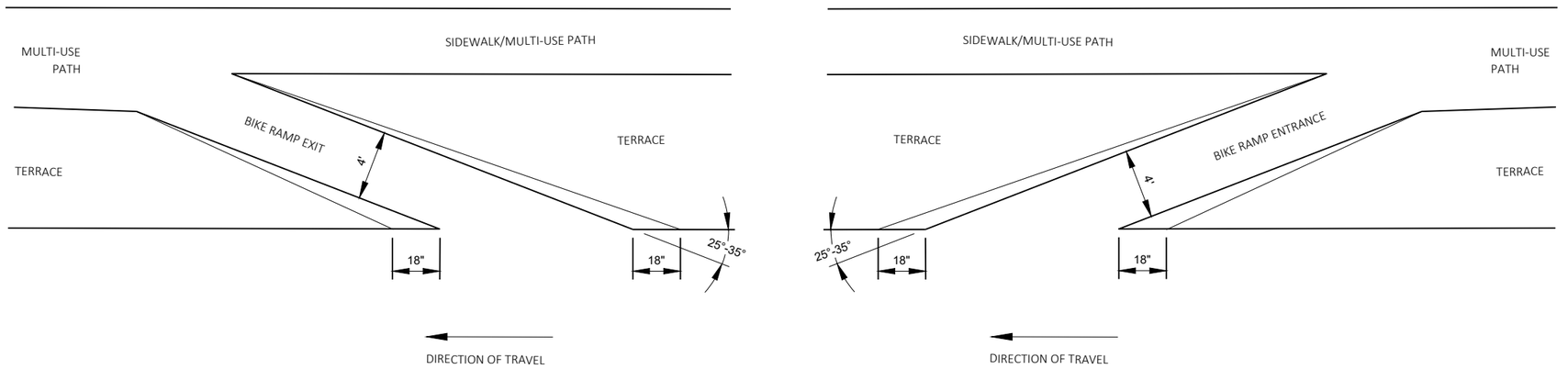
NOTE: INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

— — — DRAINAGE BREAK POINT
◄—— DIRECTION OF DRAINAGE

SPLITTER ISLAND DETAIL

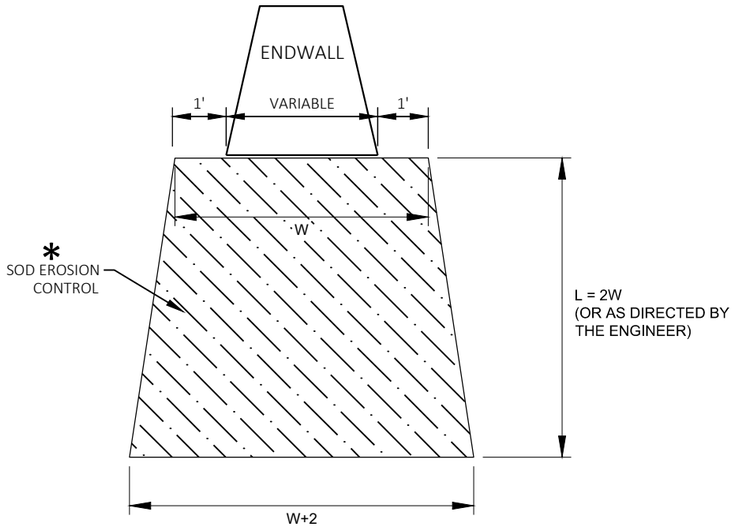
NOT TO SCALE

2



BIKE RAMP ENTRANCE AND EXIT

(TO BE MEASURED AND PAID FOR AS CONCRETE SIDEWALK 5-INCH)



DETAIL FOR SOD EROSION CONTROL TREATMENT AT CULVERTS

* - STAKED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

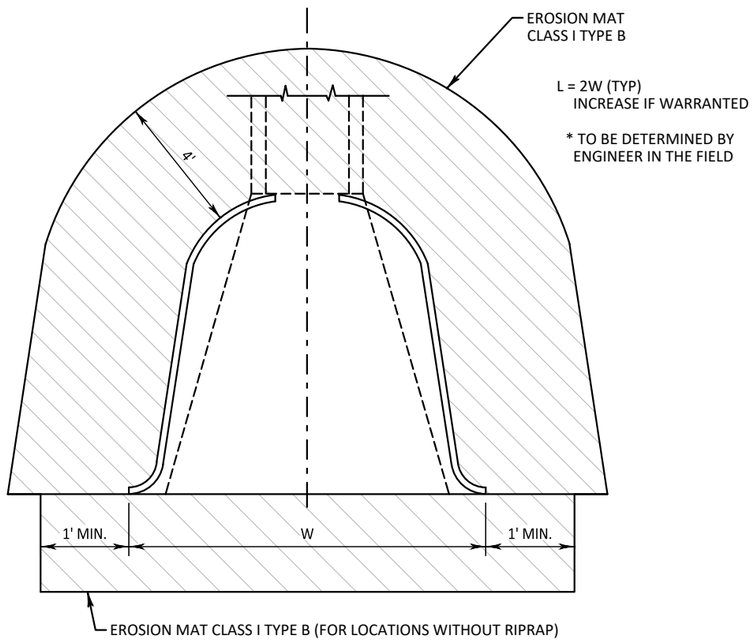
ESTIMATED BAG SIZE = 18" X 12" X 6"	
PIPE SIZE	**ESTIMATED NO. OF BAGS**
12"	**1**
15"	**2**
18"	**2**
21"	**3**
14" X 23"	**3**
24"	**3**
27"	**4**
30"	**5**
19" X 30"	**5**
36"	**7**
24" X 38"	**8**
42"	**8**
29" X 45"	**10**
48"	**10**
34" X 53"	**10**
38" X 60"	**13**
60"	**13**
66"	**15**
53" X 83"	**19**

SEE SDD 8E15 FOR PLACEMENT OF ROCK BAGS AT END OF CULVERT PIPE

RUNOFF COEFFICIENT TABLE

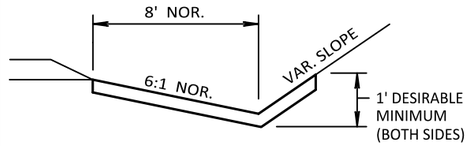
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 156.4 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 109.5 ACRES

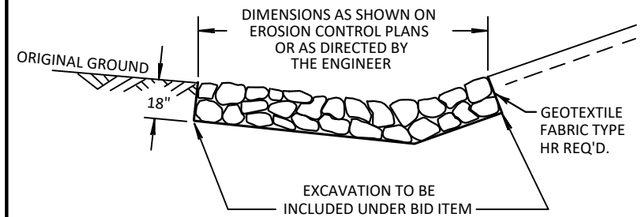


EROSION MAT AT APRON ENDWALLS

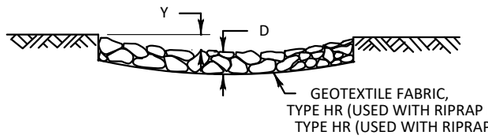
(SEE EROSION CONTROL PLANS FOR APPROXIMATE LOCATIONS)



EROSION MAT FOR DITCHES

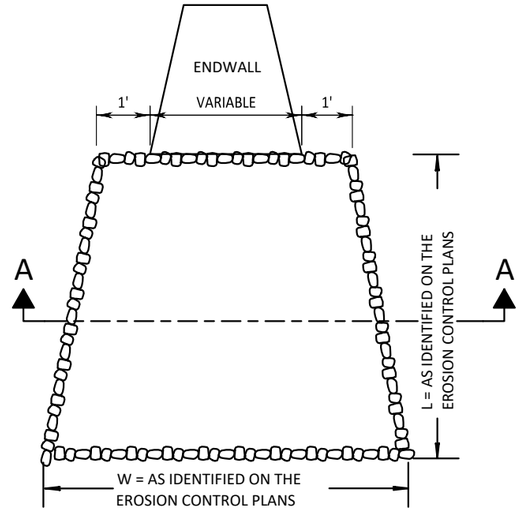


RIPRAP MEDIUM IN DITCHES



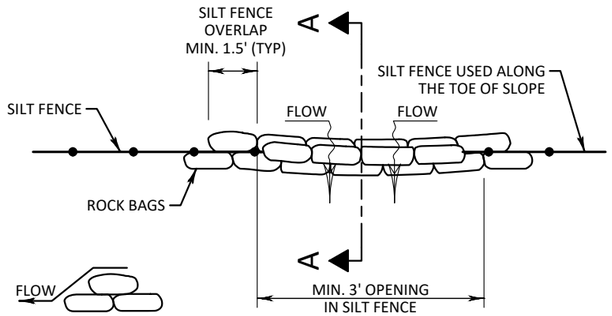
SECTION A-A

D = 18" FOR RIPRAP MEDIUM
= 24" FOR RIPRAP HEAVY
Y = 0' FOR TYPICAL CULVERT DISCHARGE INTO DITCH
= 12" FOR CULVERT DISCHARGE DOWN EMBANKMENT SLOPE



RIPRAP AND GEOTEXTILE FABRIC AT APRON ENDWALLS

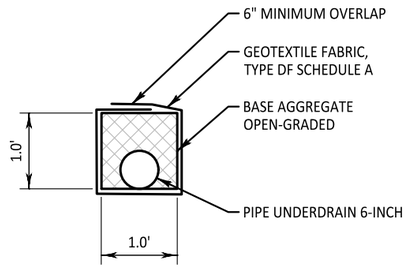
(SEE EROSION CONTROL PLANS FOR LOCATIONS)



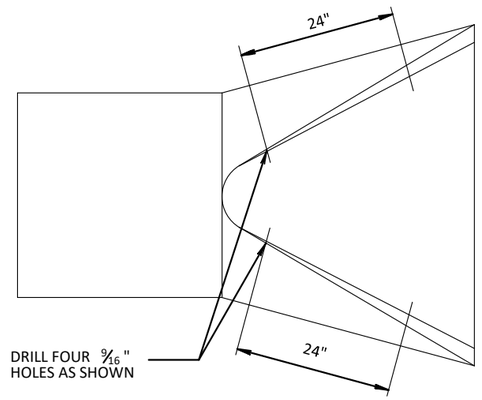
SECTION A-A

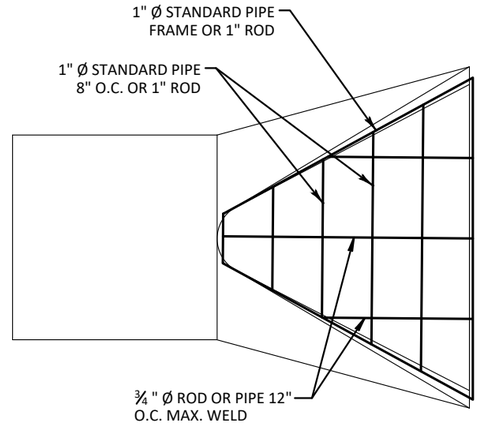
SILT FENCE RELIEF

PAID AS ROCK BAGS

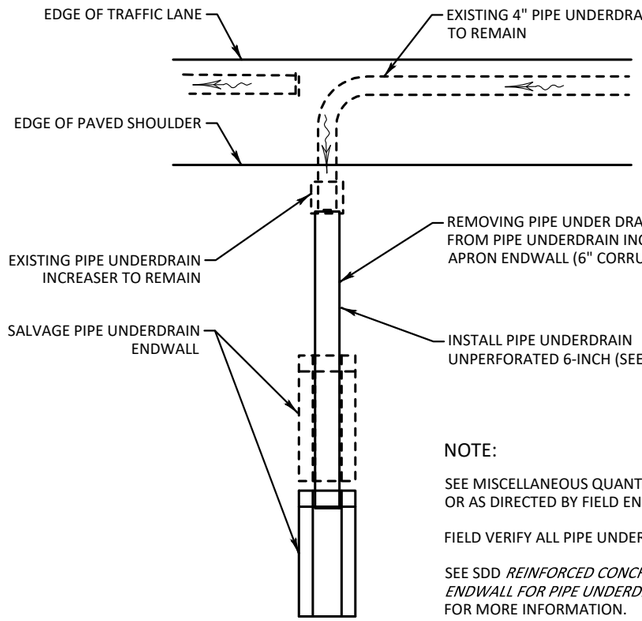


PIPE UNDERDRAIN TRENCH





AT EACH PIPE



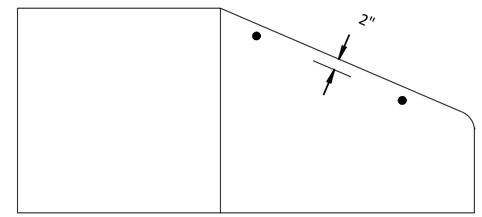
NOTE:

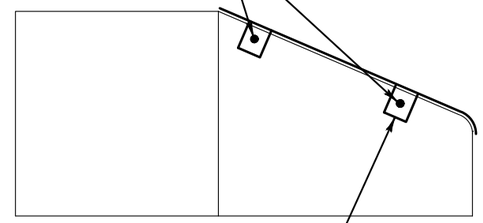
SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS OR AS DIRECTED BY FIELD ENGINEER.

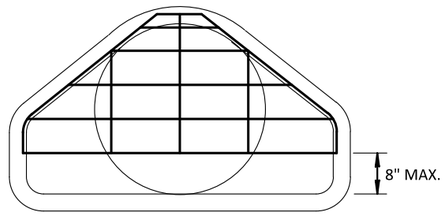
FIELD VERIFY ALL PIPE UNDERDRAIN LOCATIONS.

SEE SDD *REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN*, (SDD 8f6) FOR MORE INFORMATION.

SALVAGE AND REPLACE
PIPE UNDERDRAIN ENDWALL

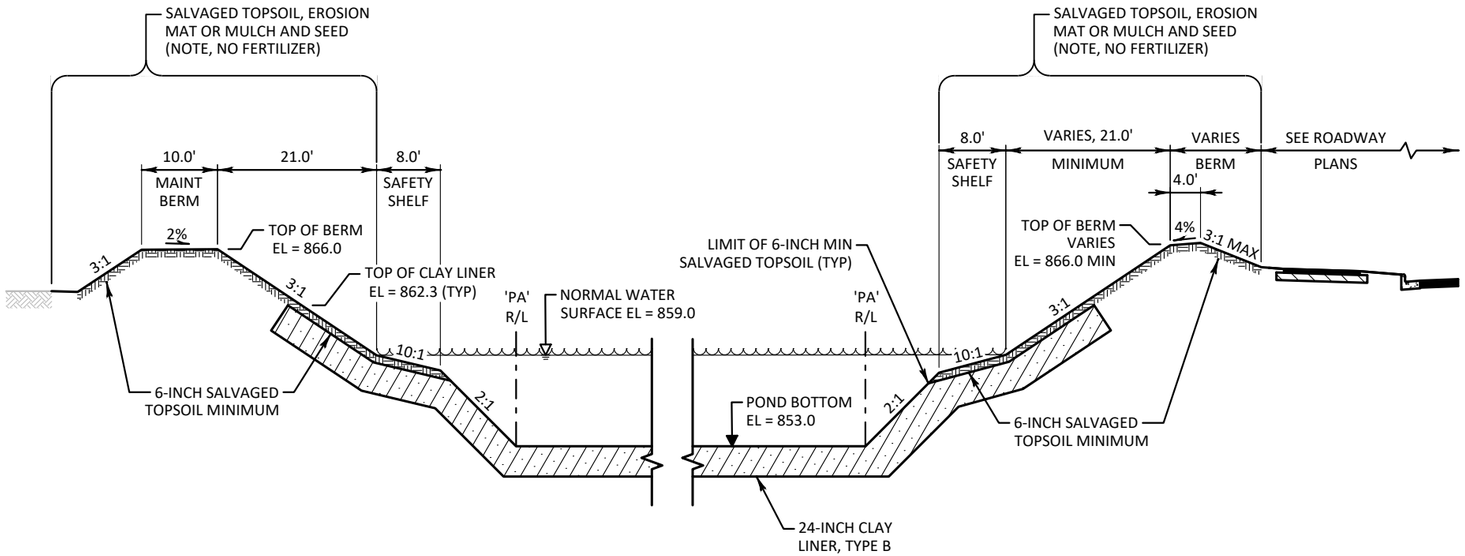




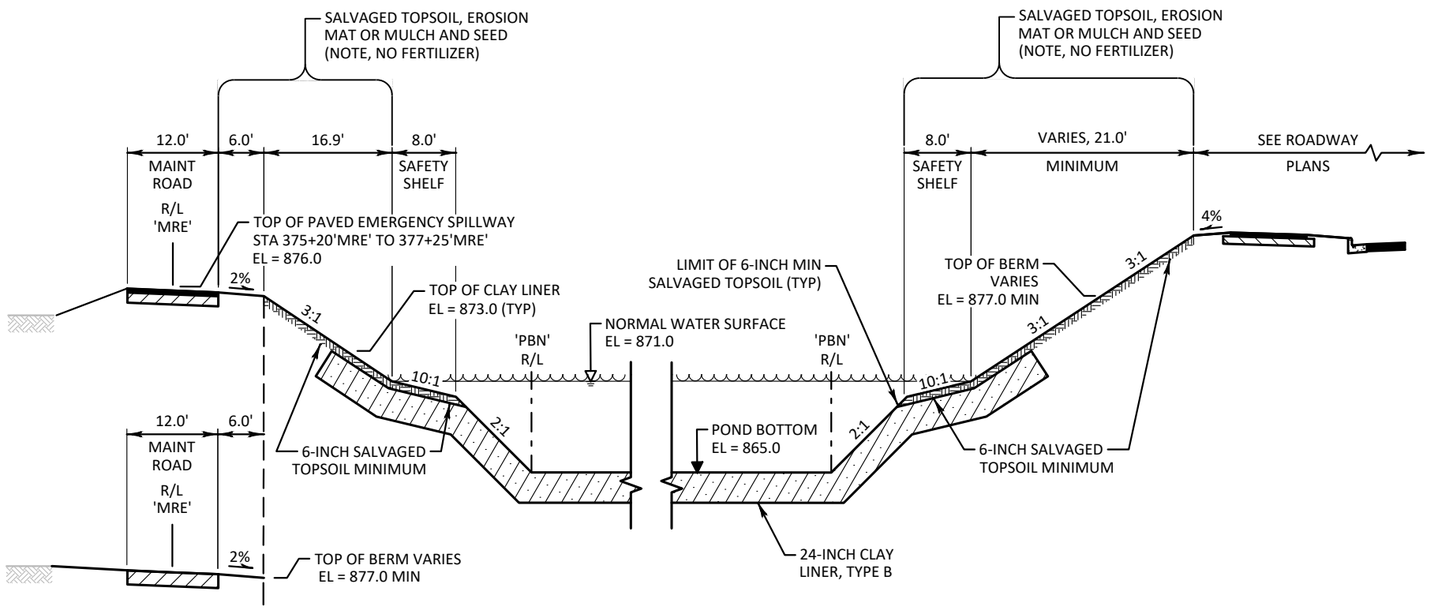


PIPE GRATE DETAIL

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 38	E

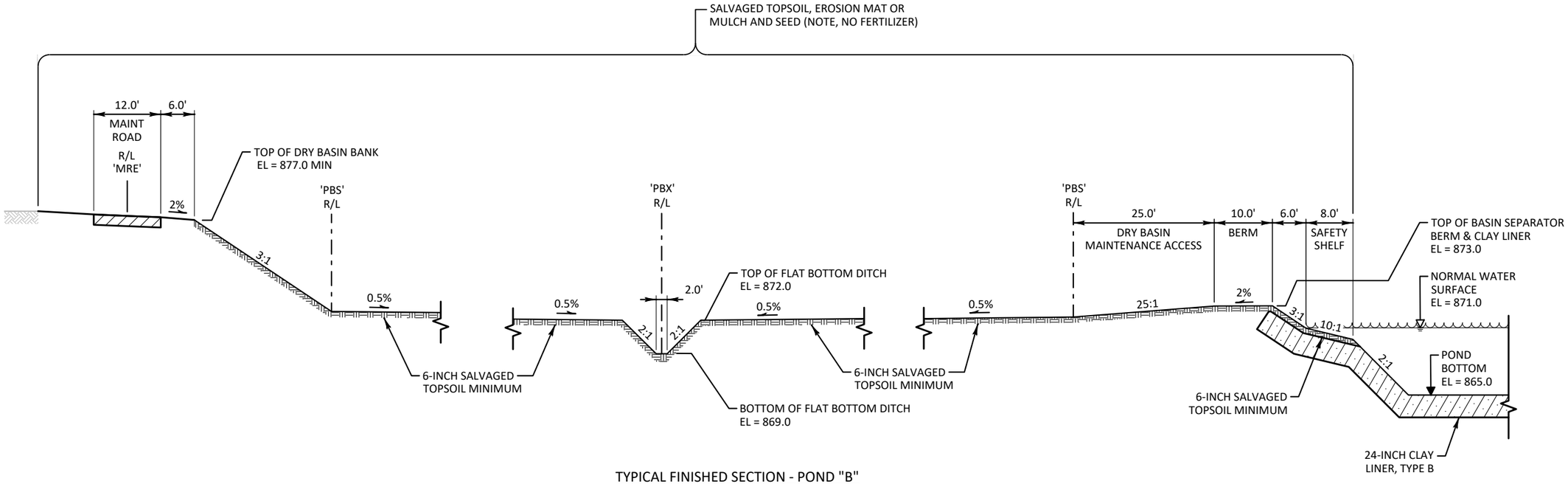


TYPICAL FINISHED SECTION - POND "A"
(NOTE, 2 TO 1 VERTICAL EXAGGERATION, SEE *CONSTRUCTION DETAIL: POND "A" GRADING* FOR VIEW PLANE)

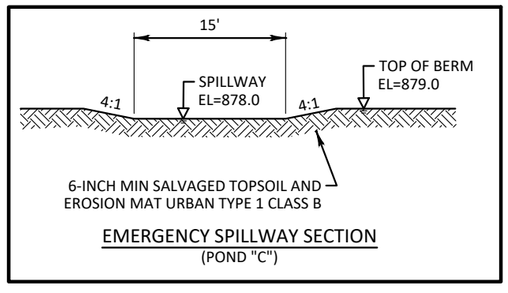


TYPICAL FINISHED SECTION - POND "B"
WET BASIN
(NOTE, 2 TO 1 VERTICAL EXAGGERATION, SEE *CONSTRUCTION DETAIL: POND "B" GRADING* FOR VIEW PLANE)

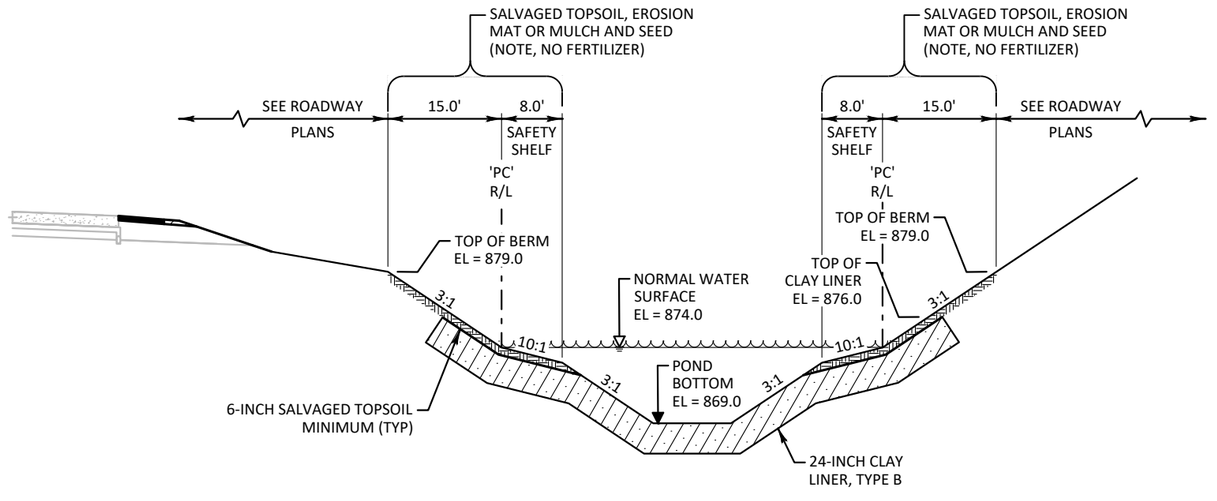
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAIL: POND GRADING TYPICAL SECTIONS	SHEET 39	E



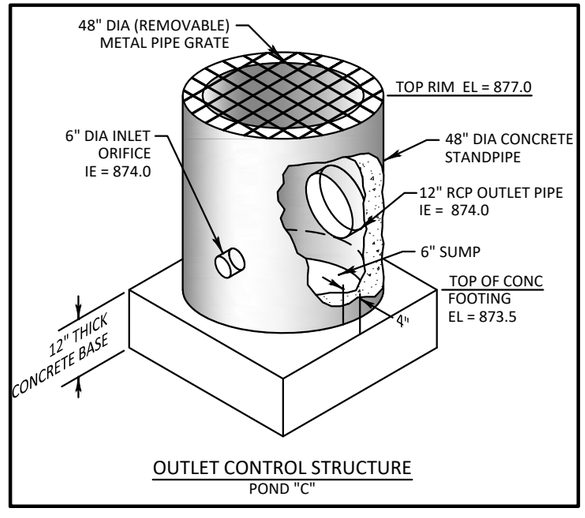
TYPICAL FINISHED SECTION - POND "B"
DRY BASIN
(NOTE, 2 TO 1 VERTICAL EXAGGERATION, SEE *CONSTRUCTION DETAIL: POND "B" GRADING* FOR VIEW PLANE)



EMERGENCY SPILLWAY SECTION
(POND "C")

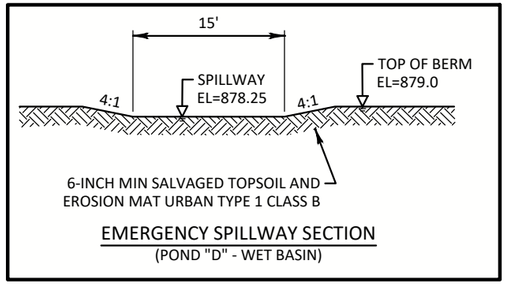


TYPICAL FINISHED SECTION - POND "C"
(NOTE, 2 TO 1 VERTICAL EXAGGERATION, SEE *CONSTRUCTION DETAIL: POND "C" AND "D" GRADING* FOR VIEW PLANE)



OUTLET CONTROL STRUCTURE
POND "C"

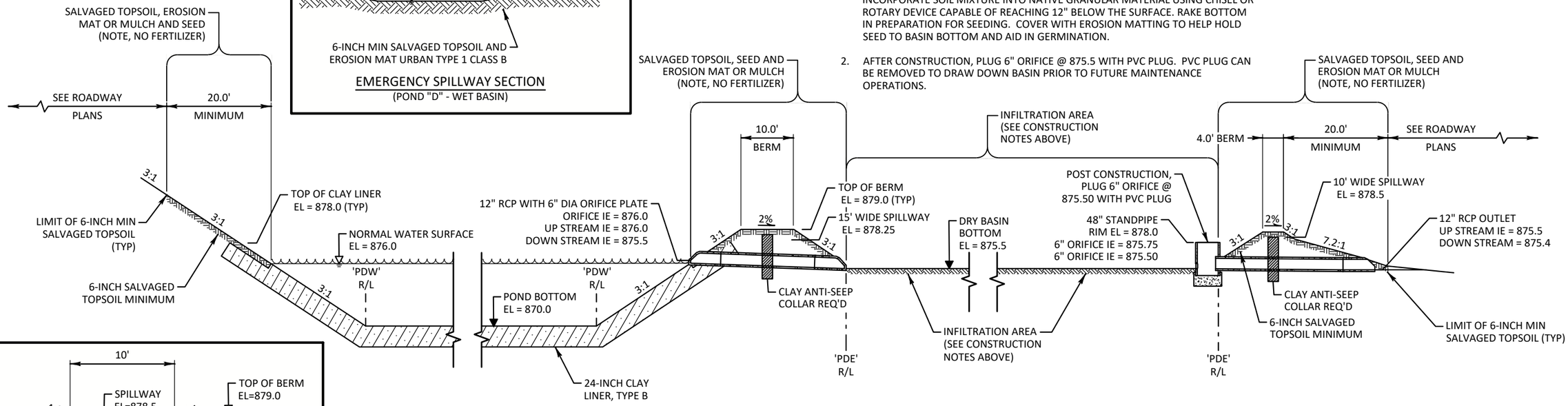
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAIL: POND GRADING TYPICAL SECTIONS	SHEET 40	E



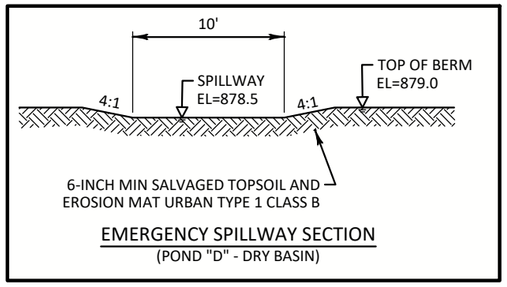
EMERGENCY SPILLWAY SECTION
(POND "D" - WET BASIN)

INFILTRATION AREA CONSTRUCTION NOTES: (POND "D")

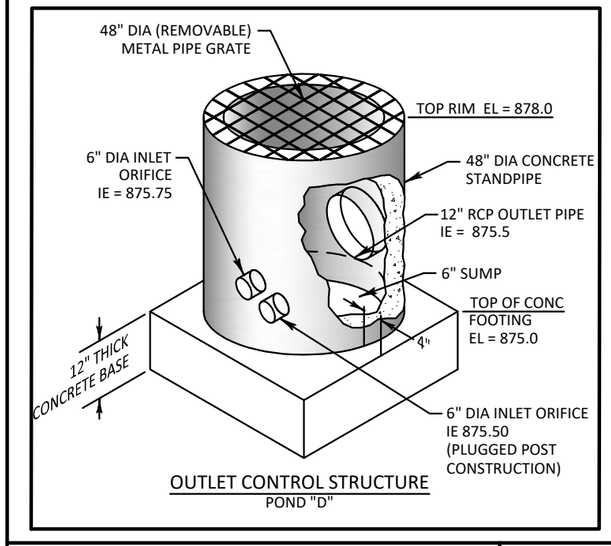
1. EXCAVATE THE INFILTRATION AREA TO 875.17 ELEVATION USING EXTRACTION METHODS THAT MINIMIZE COMPACTION. BACKFILL WITH 4" (0.33 FEET) OF 50% COMPOST/ 50% SALVAGED TOPSOIL TO TOPSOIL TO BRING ELEVATION TO 875.5. INCORPORATE SOIL MIXTURE INTO NATIVE GRANULAR MATERIAL USING CHISEL OR ROTARY DEVICE CAPABLE OF REACHING 12" BELOW THE SURFACE. RAKE BOTTOM IN PREPARATION FOR SEEDING. COVER WITH EROSION MATTING TO HELP HOLD SEED TO BASIN BOTTOM AND AID IN GERMINATION.
2. AFTER CONSTRUCTION, PLUG 6" ORIFICE @ 875.5 WITH PVC PLUG. PVC PLUG CAN BE REMOVED TO DRAW DOWN BASIN PRIOR TO FUTURE MAINTENANCE OPERATIONS.



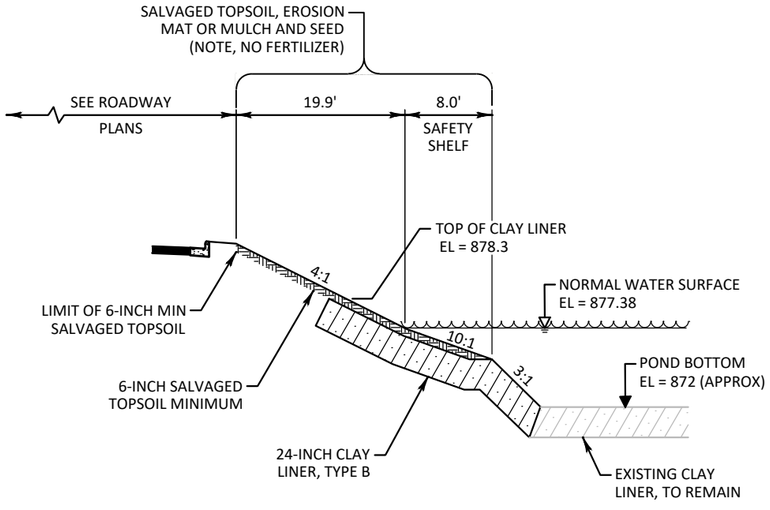
TYPICAL FINISHED SECTION - POND "D"
(NOTE, 2 TO 1 VERTICAL EXAGGERATION, SEE *CONSTRUCTION DETAIL: POND "C" AND "D" GRADING* FOR VIEW PLANE)



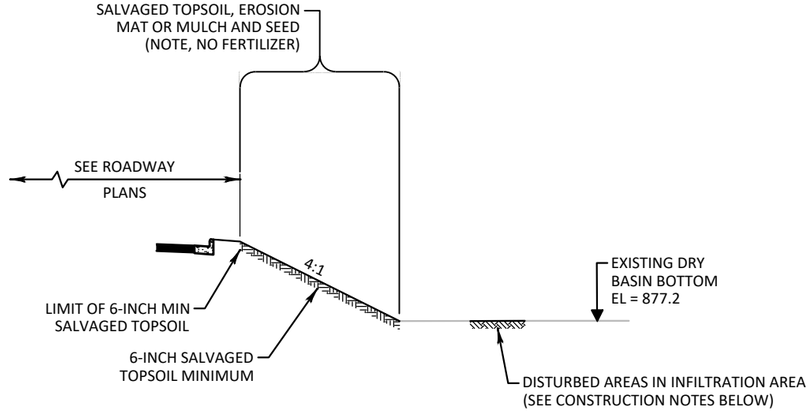
EMERGENCY SPILLWAY SECTION
(POND "D" - DRY BASIN)



OUTLET CONTROL STRUCTURE
POND "D"



TYPICAL FINISHED SECTION - COUNTY POND
WET BASIN
(NOTE, 2 TO 1 VERTICAL EXAGGERATION, SEE *CONSTRUCTION DETAIL: COUNTY POND GRADING* FOR VIEW PLANE)

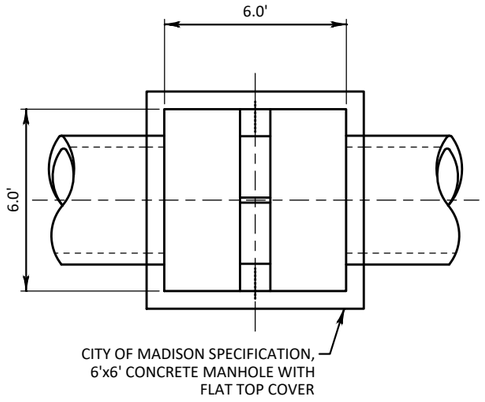


INFILTRATION AREA CONSTRUCTION NOTES: (COUNTY POND)

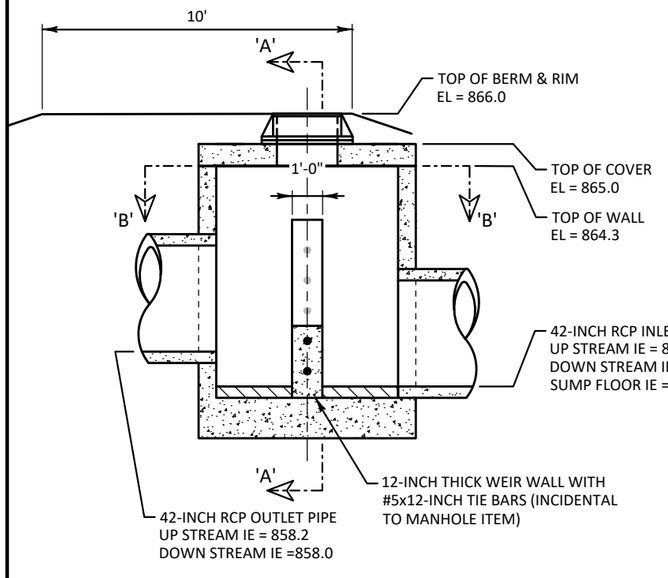
MINIMIZE COMPACTION OF EXISTING INFILTRATION BASIN. COMPACTED AREAS ARE TO BE RESTORED BY INCORPORATING 50% COMPOST/ 50% SALVAGED TOPSOIL INTO GRANULAR MATERIAL USING CHISEL OR ROTARY DEVICE CAPABLE OF REACHING 12" BELOW THE SURFACE.

TYPICAL FINISHED SECTION - COUNTY POND
DRY BASIN
(NOTE, 2 TO 1 VERTICAL EXAGGERATION, SEE *CONSTRUCTION DETAIL: COUNTY POND GRADING* FOR VIEW PLANE)

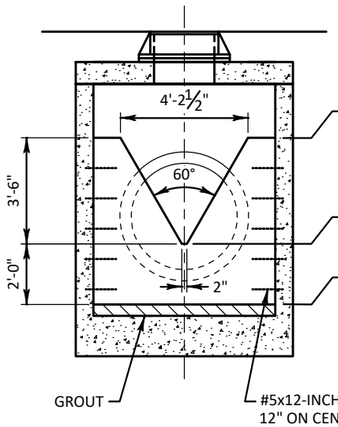
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAIL: POND GRADING TYPICAL SECTIONS	SHEET 41	E



SECTION 'B' - 'B'

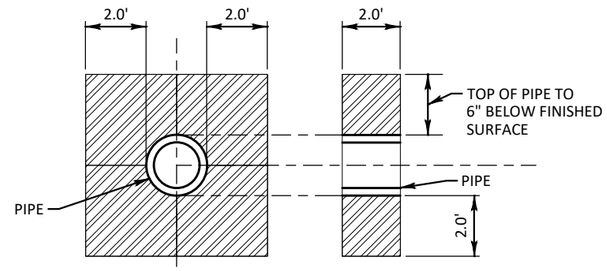


PIPE C/L SECTION

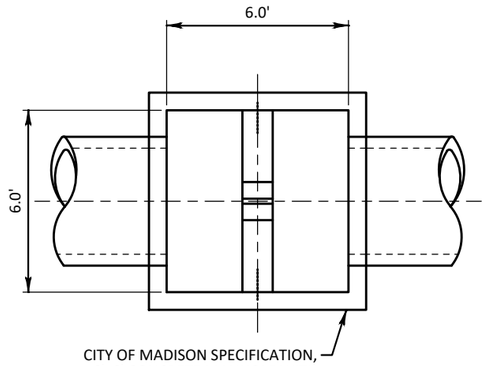


SECTION 'A' - 'A'

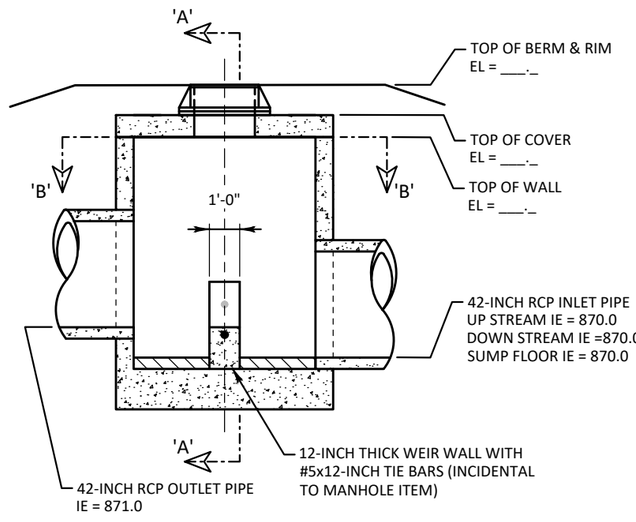
OUTLET CONTROL STRUCTURE
POND "A"



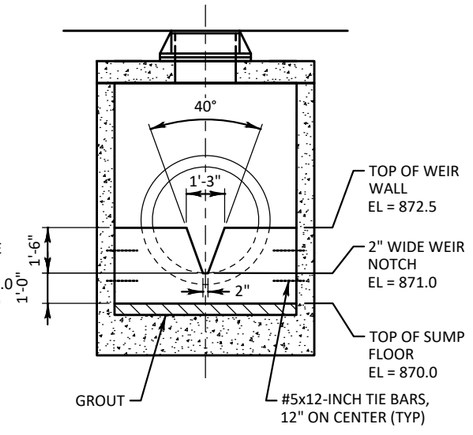
CLAY ANTI-SEEP COLLAR DETAIL



SECTION 'B' - 'B'



PIPE C/L SECTION



SECTION 'A' - 'A'

OUTLET CONTROL STRUCTURE
POND "B"

2

MILLPOND RD

USH 12/18 EB

EB EXIT RAMP

R/L 'ALIGNMENT - POND A'

SEE TYPICAL FINISHED SECTION, POND "A"

PROPOSED CONTOUR (TYP)

EXISTING CONTOUR (TYP)

EXISTING ROW (TYP)

EXISTING POND SHORELINE

PROPOSED ROW (TYP)

SLOPE INTERCEPT (TYP)

334+46.6'MP'
332.9'RT

42" RCP OUTLET PIPE
UP STREAM IE EL = 858.2
DOWN STREAM IE EL = 858.0

MEDIUM RIPRAP (SEE EROSION CONTROL PLAN)

30' EMERGENCY SPILLWAY
IE EL = 865.0
(SEE SECTION DETAIL THIS SHEET)

OUTLET CONTROL STRUCTURE, POND "A" (SEE DETAIL, SEPARATE SHEET)
TOP RIM EL = 866.0
FLOOR IE = 857.0

TOP OF 10' WIDE BERM EL = 866.0

PERMANENT POOL BANK SLOPED 2:1

8' SAFETY SHELF SLOPED 10:1

BERM SLOPED 3:1

TLE (TYP)

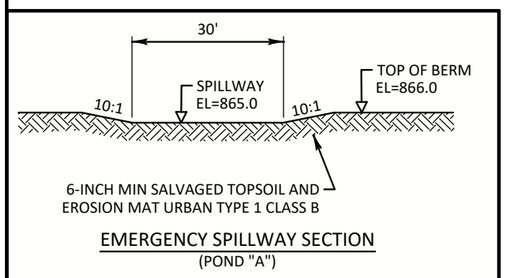
PROPOSED POND "A"

BOTTOM EL = 853.0
NORMAL WATER SURFACE EL = 859.0
(NOTE, LAYOUT INDEXED TO TOP INSIDE EDGE OF 10' WIDE BERM, EL = 866.0)

CLAY LINER NOTES:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE BASIN HOLDS WATER TO THE 2 YR WATER SURFACE ELEVATION, AND THAT THE LINER IS NOT DAMAGED WHILE REMOVING ANY ACCUMULATED SEDIMENT ONCE THE SITE HAS BEEN RESTORED.

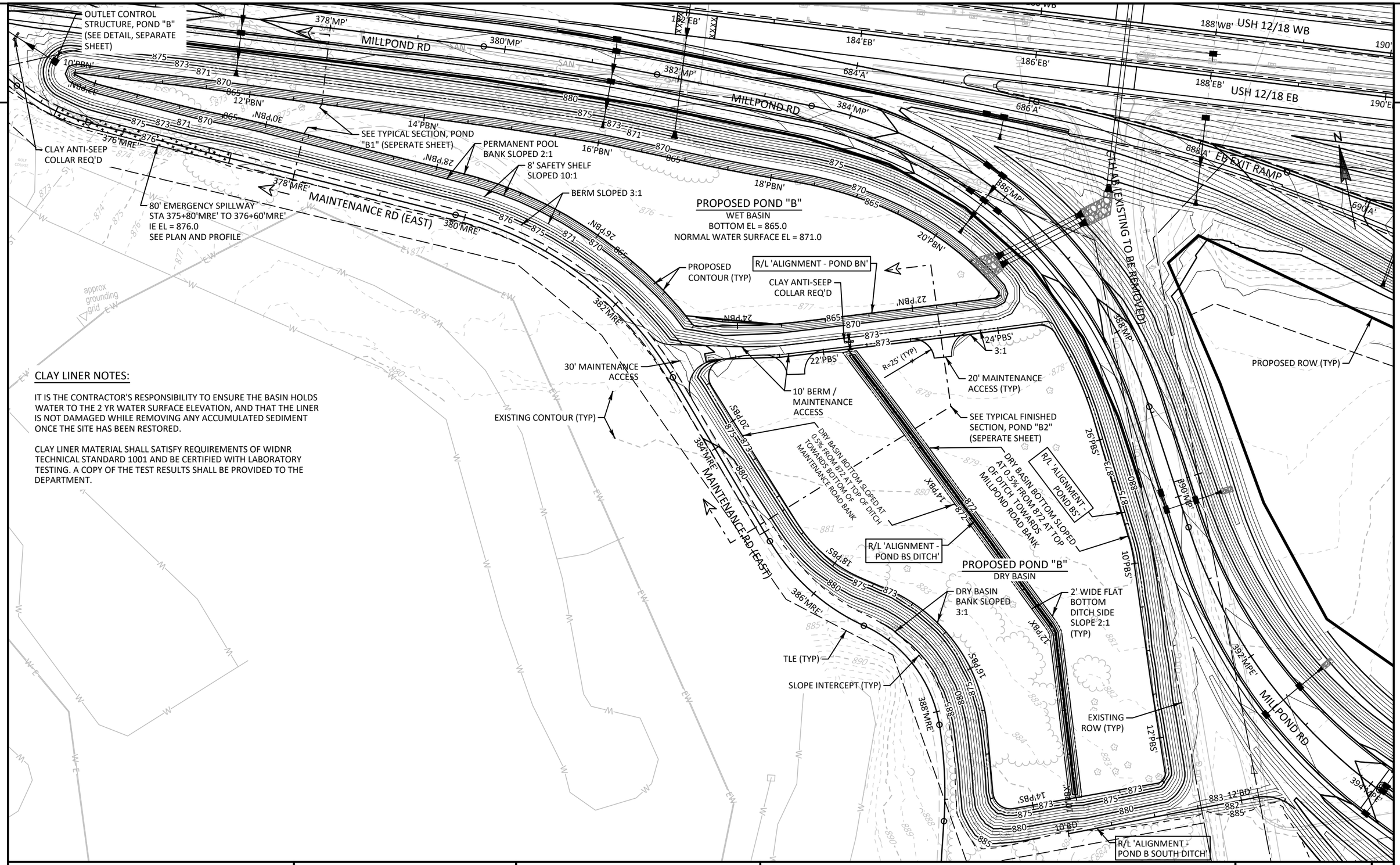
CLAY LINER MATERIAL SHALL SATISFY REQUIREMENTS OF WIDNR TECHNICAL STANDARD 1001 AND BE CERTIFIED WITH LABORATORY TESTING. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE CITY.



EMERGENCY SPILLWAY SECTION
(POND "A")

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAIL: POND "A" GRADING	SHEET 43	E

2



CLAY LINER NOTES:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE BASIN HOLDS WATER TO THE 2 YR WATER SURFACE ELEVATION, AND THAT THE LINER IS NOT DAMAGED WHILE REMOVING ANY ACCUMULATED SEDIMENT ONCE THE SITE HAS BEEN RESTORED.

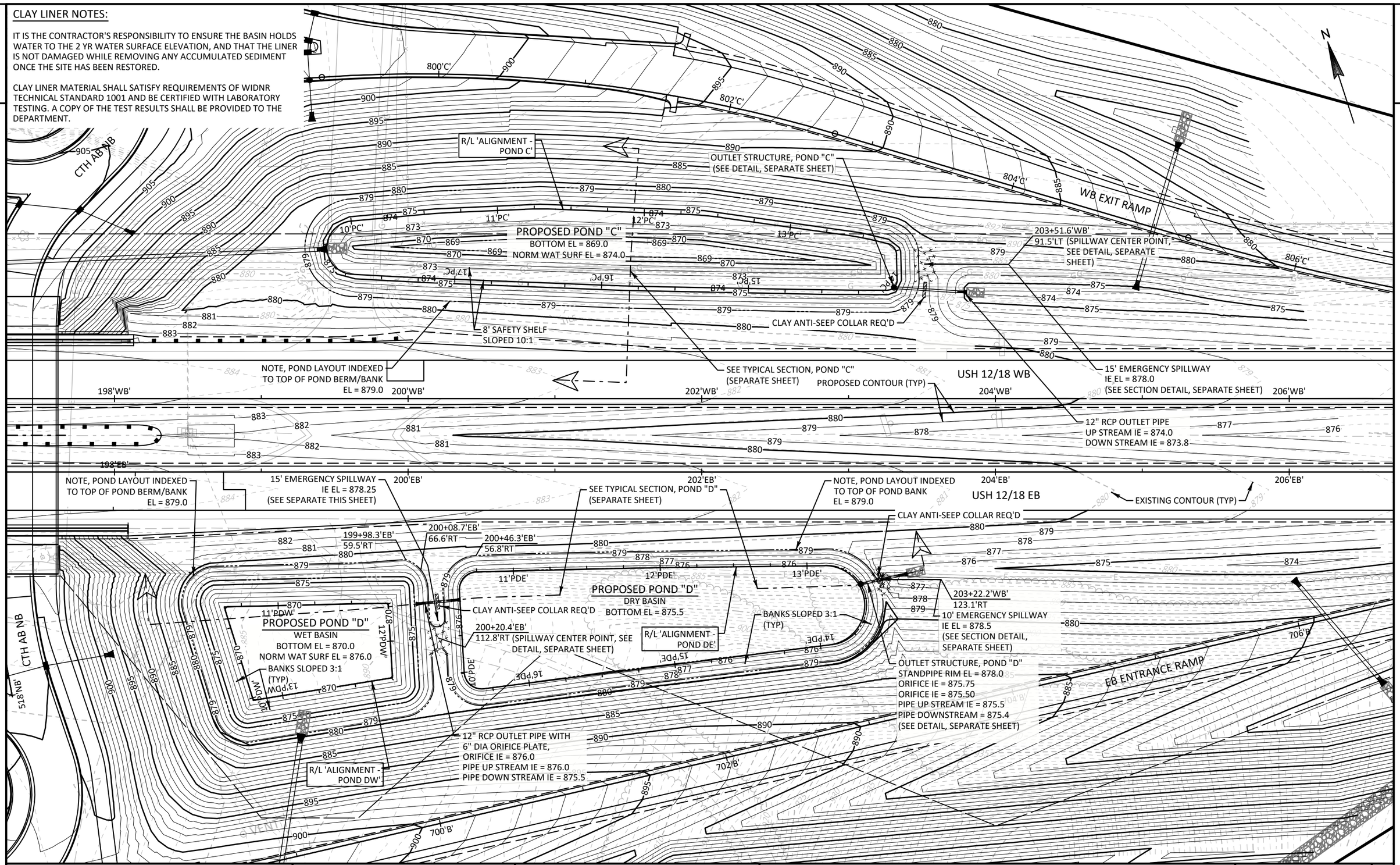
CLAY LINER MATERIAL SHALL SATISFY REQUIREMENTS OF WIDNR TECHNICAL STANDARD 1001 AND BE CERTIFIED WITH LABORATORY TESTING. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE DEPARTMENT.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAIL: POND "B" GRADING	SHEET 44	E

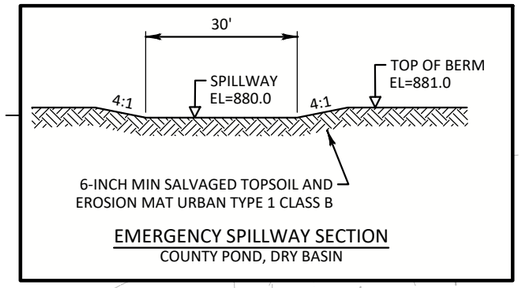
CLAY LINER NOTES:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE BASIN HOLDS WATER TO THE 2 YR WATER SURFACE ELEVATION, AND THAT THE LINER IS NOT DAMAGED WHILE REMOVING ANY ACCUMULATED SEDIMENT ONCE THE SITE HAS BEEN RESTORED.

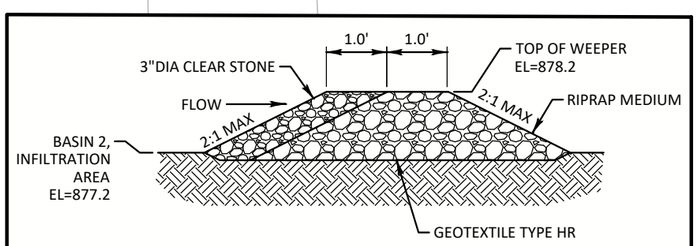
CLAY LINER MATERIAL SHALL SATISFY REQUIREMENTS OF WIDNR TECHNICAL STANDARD 1001 AND BE CERTIFIED WITH LABORATORY TESTING. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE DEPARTMENT.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAIL: POND "C" AND "D" GRADING	SHEET 45	E



EMERGENCY SPILLWAY SECTION
COUNTY POND, DRY BASIN



STONE WEEPER
COUNTY POND, DRY BASIN

N

INFILTRATION AREA CONSTRUCTION NOTES:

MINIMIZE COMPACTION OF EXISTING INFILTRATION BASIN. COMPACTED AREAS ARE TO BE RESTORED BY INCORPORATING 50% COMPOST/ 50% SALVAGED TOPSOIL INTO GRANULAR MATERIAL USING CHISEL OR ROTARY DEVICE CAPABLE OF REACHING 12" BELOW THE SURFACE.

SEE TYPICAL SECTION, COUNTY POND, WET BASIN (SEPARATE SHEET)

EXISTING STORM BASIN 2 TO BE MODIFIED

PERMANENT POOL EL = 877.38

EXISTING CONTOURS (TYP)

EXISTING STORM BASIN 3 TO REMAIN

DELINEATED WETLAND (TYP)

EXISTING PIPES TO REMAIN

SEE TYPICAL SECTION, COUNTY POND, DRY BASIN (SEPARATE SHEET)

EXISTING STORM BASIN 2 INFILTRATION AREA TO BE MODIFIED (BOTTOM EL=877.2)

30' SPILLWAY (SEE DETAIL THIS SHEET) IE = 880.0

CLAY ANTI-SEEP COLLAR REQ'D

30' LONG STONE WEEPER (SEE DETAIL THIS SHEET)

MEDIUM RIPRAP (SEE EROSION CONTROL PLAN)

MINIMIZE COMPACTION OF EXISTING INFILTRATION BASIN. SEE INFILTRATION AREA CONSTRUCTION NOTES (THIS SHEET).

2-18" CORRUGATED HDPP DISCHARGE PIPES
UPSTREAM IE = 877.2
DOWNSTREAM IE = 877.1

TLE (TYP)

CTH AB

MAAHIC WAY

EXISTING STONE WEEPER

EXISTING DISCHARGE PIPES

EXISTING EMERGENCY SPILLWAY

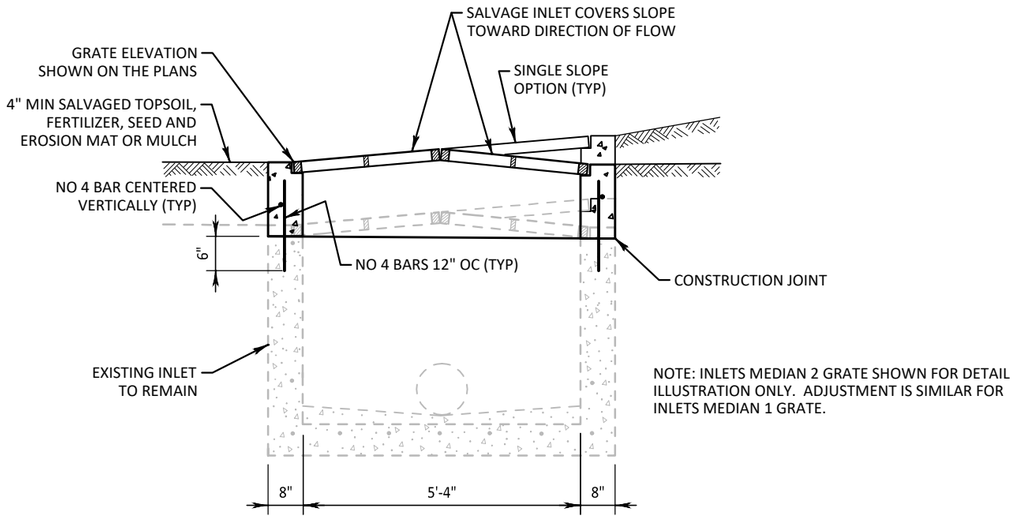
PROPOSED ROW (TYP)

34"x53" ELLIPTICAL
IE = 875.0

WB ENTRANCE RAMP

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAIL: COUNTY POND GRADING	SHEET 46	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021600-CM (GRD DET - CO POND).DWG
PLOT DATE : 5/3/2022 3:12 PM
PLOT BY : SEH
LAYOUT NAME : 04
PLOT SCALE : 1.0 IN = 40.0 FT
WISDOT/CADDS SHEET 42



NOTE: INLETS MEDIAN 2 GRATE SHOWN FOR DETAIL ILLUSTRATION ONLY. ADJUSTMENT IS SIMILAR FOR INLETS MEDIAN 1 GRATE.

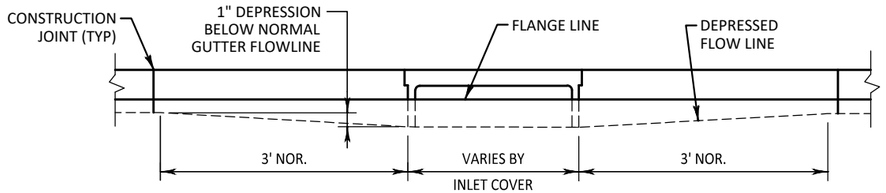
NOTE:

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

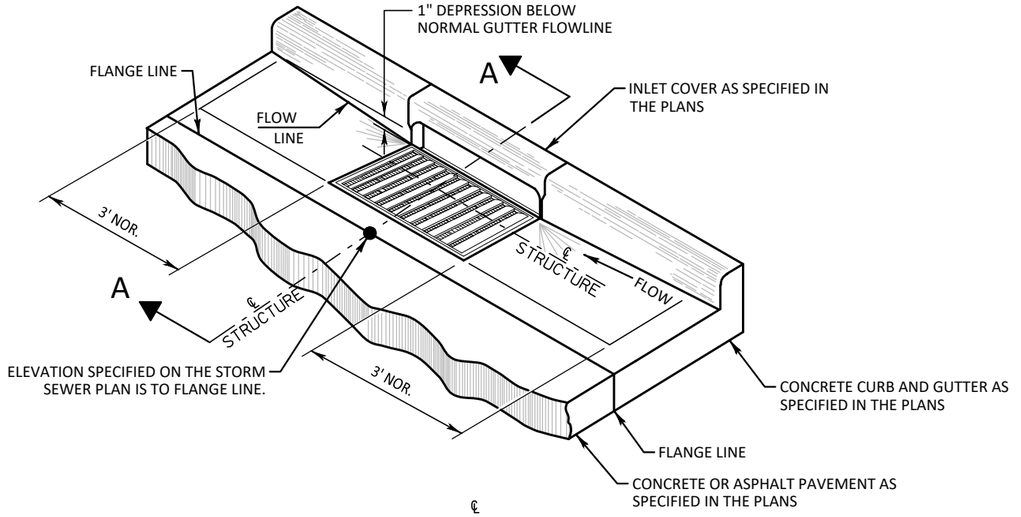
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

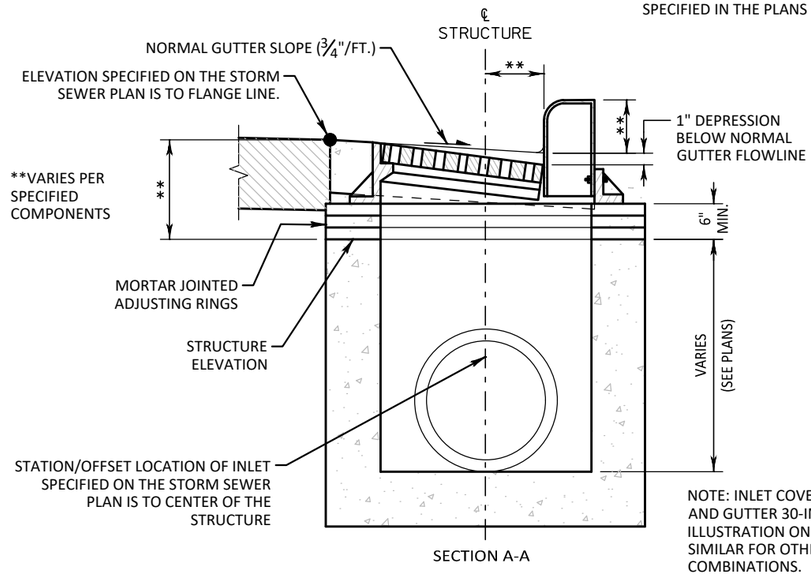
SEE S.D.D. "INLETS MEDIAN 1 & 2 GRATE" FOR MORE INFORMATION.

RECONSTRUCTING INLETS MEDIAN 2 GRATE



ELEVATION AT FLANGE LINE
(GRATE AND CURB DETAILS OMITTED FOR DRAWING CLARITY)



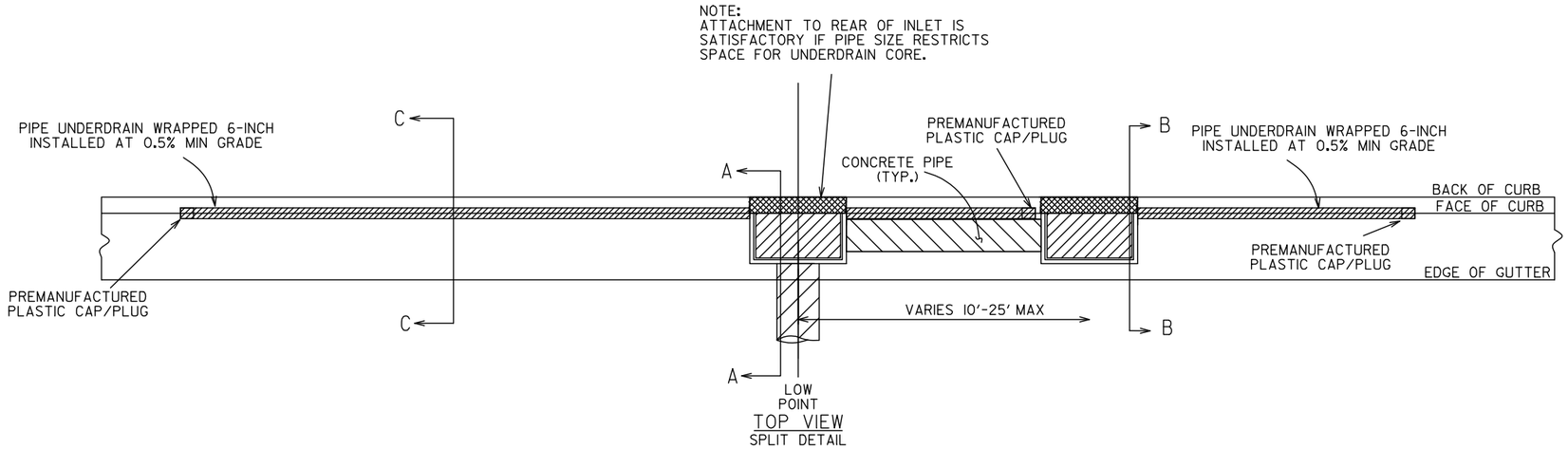


SECTION A-A

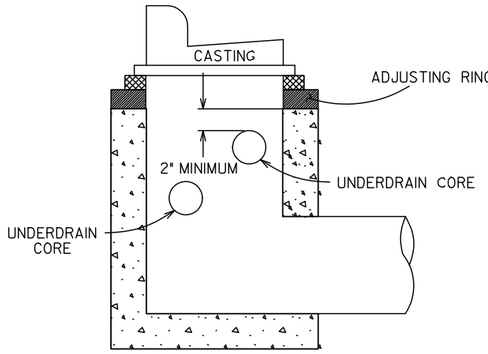
NOTE: INLET COVER - TYPE H AND CONCRETE CURB AND GUTTER 30-INCH SHOWN FOR DETAIL ILLUSTRATION ONLY. GUTTER PAN DEPRESSION IS SIMILAR FOR OTHER CURB & GUTTER/INLET COVER COMBINATIONS.

TYPICAL GUTTER PAN DEPRESSION AT INLETS

2



TOP VIEW
SPLIT DETAIL

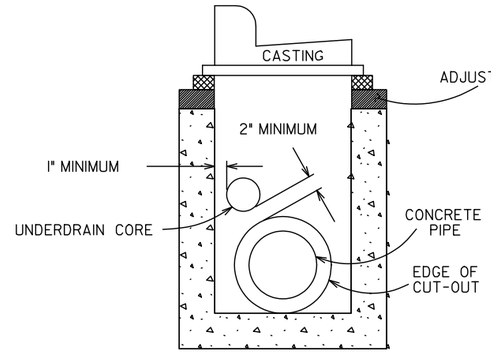


SECTION A-A

NOTE:
(1) BOTTOM OF CORE PLACED A MINIMUM OF 6" ABOVE THE TOP OF THE CROSS PIPE.
(2) TOP OF CORE HOLES WILL BE A MINIMUM OF 2" BELOW THE TOP OF THE INLET STRUCTURES (BOTTOM OF RINGS)
(3) DRAIN TILES SHALL NOT BE ALLOWED IN THE RING OF THE STRUCTURE OF INLETS OR SEWER ACCESS STRUCTURES

CROSS-SECTION VIEW
TYPICAL INLET CONFIGURATION
WITH UNDERDRAIN CORED
INTO WALL WITH CROSSPIPE ONLY

FOUND AT LOW POINTS
WITHOUT FLANKING INLETS



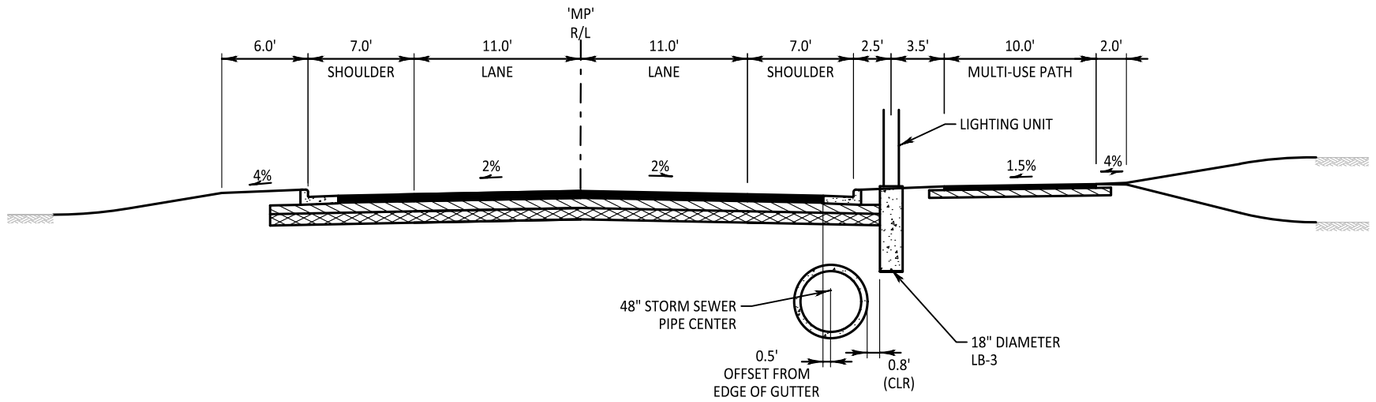
SECTION B-B

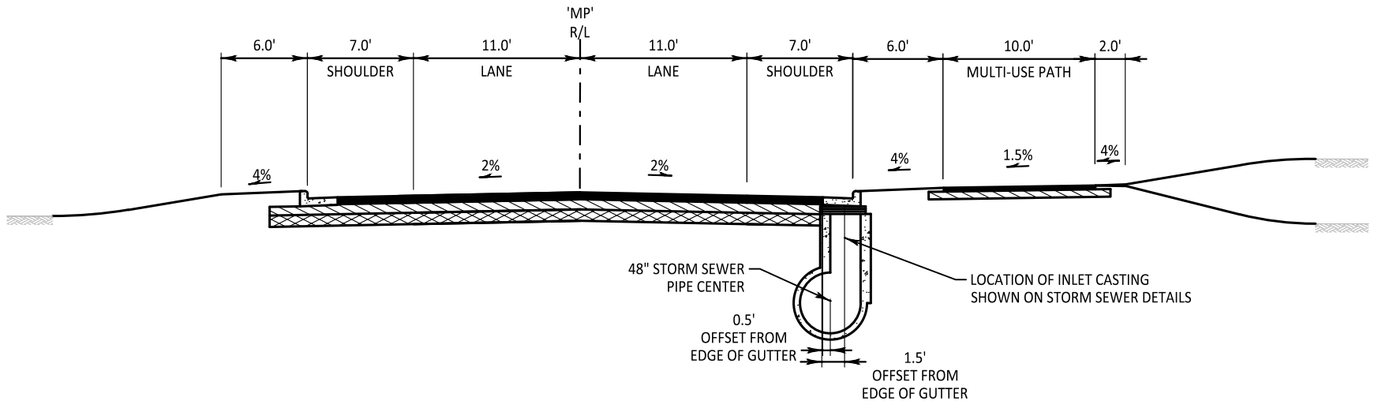
NOTE:
(1) CORE HOLES SHALL PROVIDE FOR A MINIMUM OF 2" OF CONCRETE BETWEEN THE CUTOUT FOR A CONCRETE PIPE AND THE EDGE OF THE CORE HOLE.
(2) CORE HOLES MAY HAVE 0" CLEARANCE FROM THE INSIDE WALLS OF A STRUCTURE.

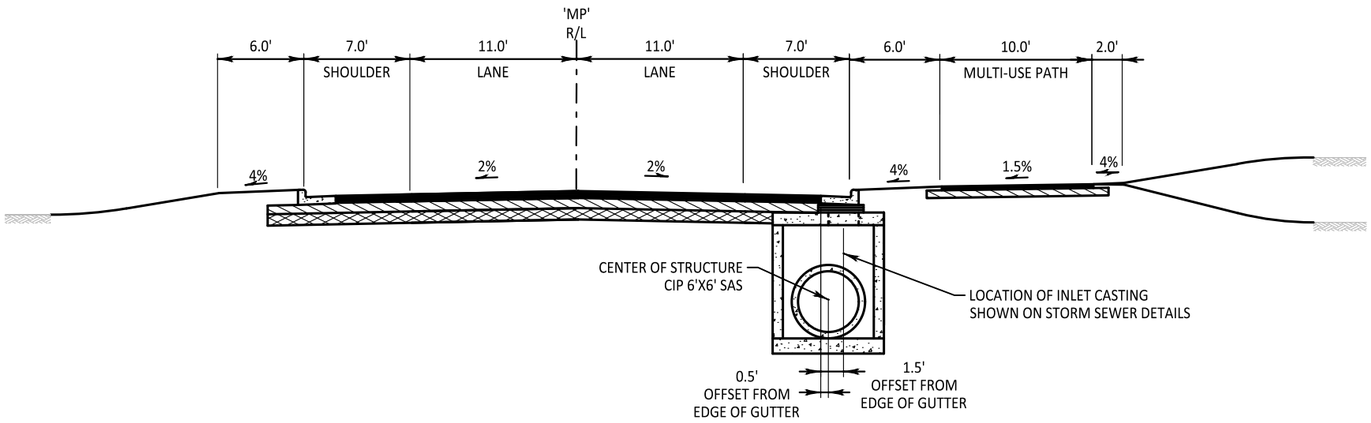
CROSS-SECTION VIEW
TYPICAL INLET IN SUMP
CONDITION WITH
UNDERDRAIN CORED
INTO WALL WITH PIPE
FOUND AT FLANKING INLETS
NEAR LOWPOINTS

PIPE UNDERDRAIN 6-INCH

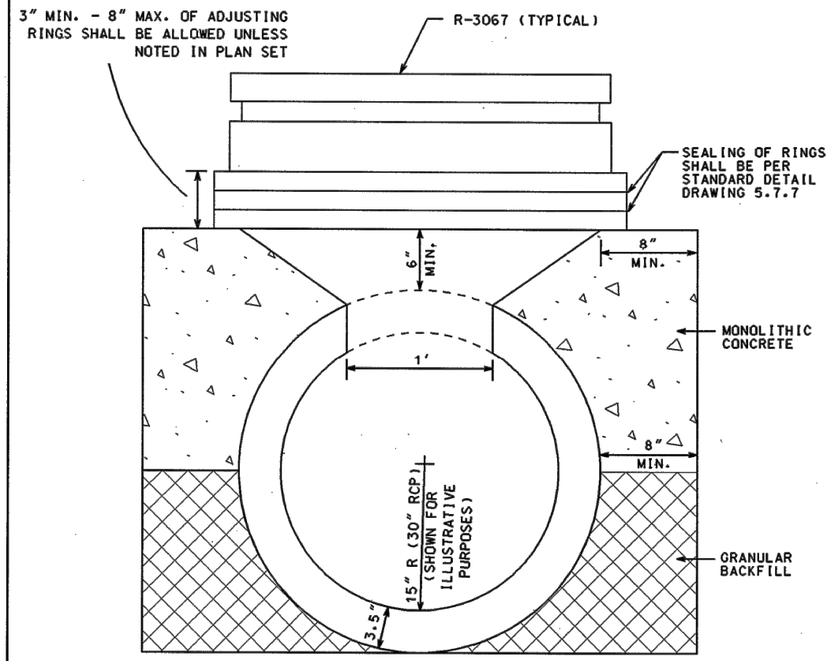
LOCATED ALONG LOW SIDE CURB







STORM SEWER TRUNKLINE DETAILS - MILLPOND RD

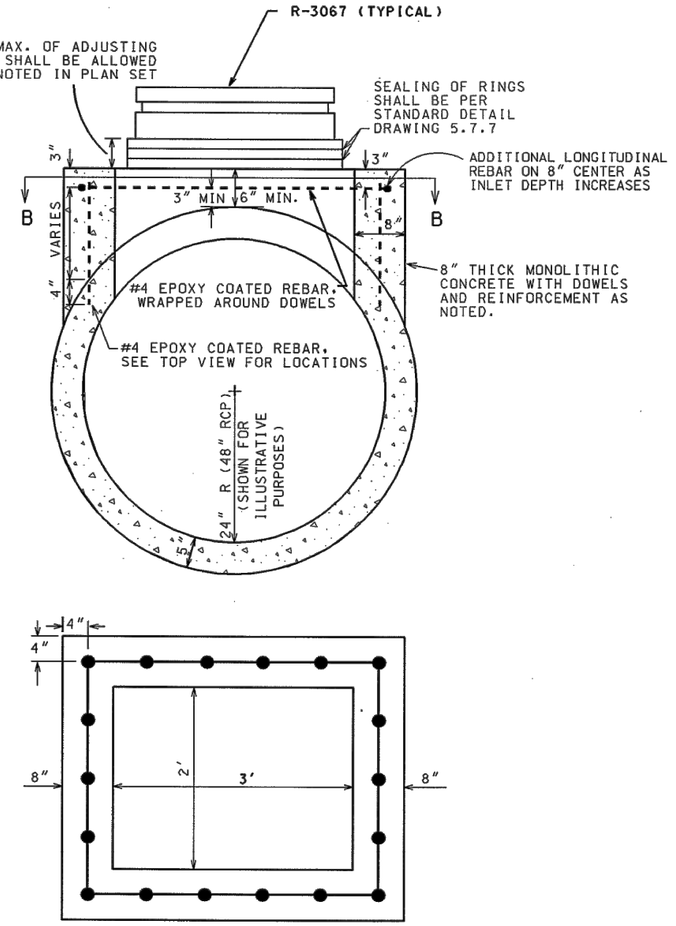


2004

CITY OF MADISON ENGINEERING DIVISION
MADISON STANDARD SADDLED INLET TYPE I
STANDARD DETAIL DRAWING 5.7.8

TO BE USED ON PIPES OR BOXES WHERE THE O.D. OF THE THROUGH PIPE IS LESS THAN OR EQUAL TO 4'-4".

5.7.8



SECTION B - B

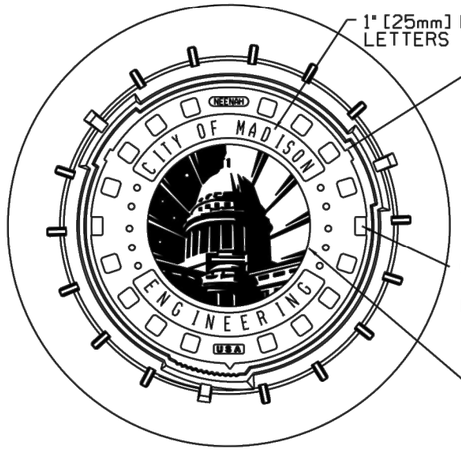
2004

CITY OF MADISON ENGINEERING DIVISION
MADISON STANDARD SADDLED INLET TYPE II
STANDARD DETAIL DRAWING 5.7.9

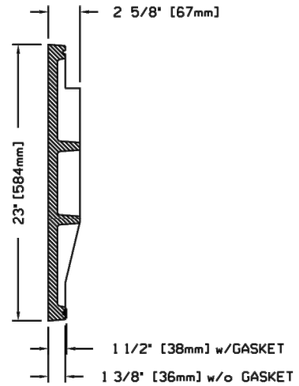
TO BE USED ON PIPES OR BOXES WHERE THE O.D. OF THE PIPE OR BOX IS GREATER THAN 4'-4".

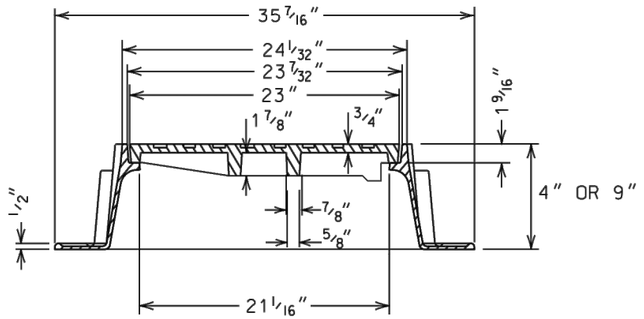
5.7.9

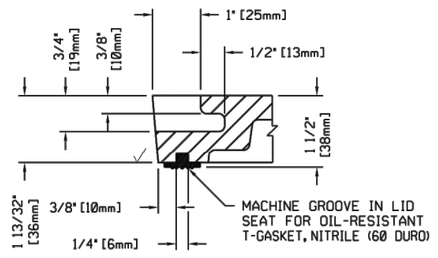
CIP INLET SP DETAILS



LOGO DETAIL







T-SEAL GASKET / CONCEALED PICK DETAIL

NOTES:

APPROXIMATE TOTAL WEIGHTS:
R-1550 R-1050 FRAME w/ LOGO LID 1550-0054, 9" FRAME AND LID = 240 LBS.
R-1689 FRAME w/ LOGO LID 1550-0054, 4" FRAME AND LID = 279 LBS.

IF LOCKABLE LID IS NECESSARY, R-1916 C, 83/4" FRAME AND LID = 300 LBS
THERE IS NO CITY OF MADISON LOGO LID AVAILABLE FOR THIS FRAME AND CASTING.

THE FOLLOWING NEENAH FOUNDRY CASTINGS (OR EQUAL CASTINGS) SHALL BE ACCEPTABLE:

1. R-1050, 9" NON-ROCKING ACCESS STRUCTURE FRAME.
2. R-1689, 4" NON-ROCKING ACCESS STRUCTURE FRAME (WHEN REQUESTED BY THE CITY CONSTRUCTION ENGINEER).
3. R-1916 C LOGO WITH A LOCKING CASTING AS WELL AS A LOCKING FRAME. THIS CASTING SHALL BE USED IN GREENWAYS AND EASEMENTS (SEE SDD 5.7.16a)

1. FRAME AND COVER SHALL BE MACHINED AND FITTED SO THAT ROCKING AND CHATTERING WILL BE ELIMINATED.
2. ALL LIDS SHALL BE SELF-SEALING EXCEPT FOR STORM SEWER.
3. ALL LIDS SHALL HAVE CITY OF MADISON LOGO AS SHOWN IN DETAIL (R-1050-0054 OR EQUIV.)

LID NOTES: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND [METRIC]
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 40A

2015

CITY OF MADISON
ENGINEERING DIVISION

SAS FRAME & COVER

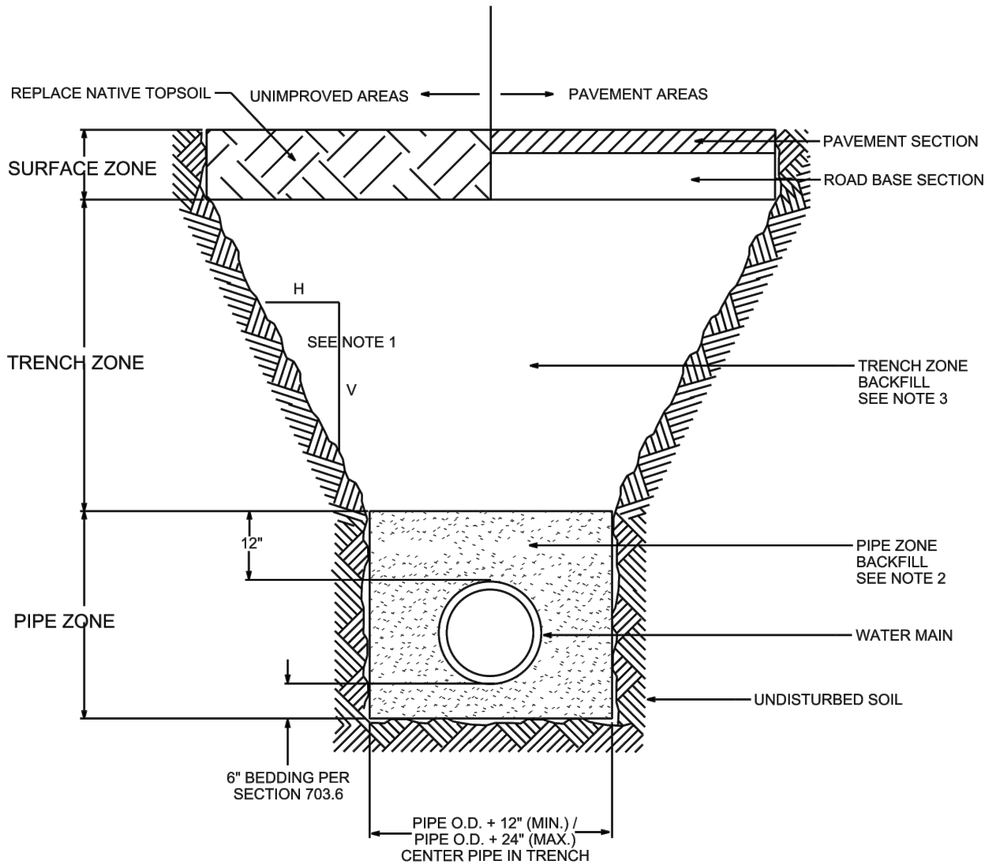
STANDARD DETAIL DRAWING 5.7.16

5.7.16

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. **7.01**

REVISED: 12/2015



NOTES:

1) ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE WISCONSIN ADMINISTRATIVE CODE FOR "TRENCH EXCAVATION AND TUNNEL CONSTRUCTION" AND ANY ADDITIONAL REQUIREMENTS INCLUDING IN THE CONTRACT DOCUMENTS.

2) BACKFILL OPERATIONS SHALL COMPLY WITH SECTIONS 703.6 AND 202.2(B) OF THE STANDARD SPECIFICATIONS.

3) THE PIPE ZONE BEDDING MATERIAL SHALL CONSIST OF SELECT FILL SAND, LIMESTONE SCREENINGS, CLEAR STONE, OR WASHED GRAVEL.

4) SEE SECTION 703.6.1 FOR BACKFILL/COMPACTION REQUIREMENTS OF BEDDING/COVER MATERIAL IN THE PIPE ZONE.

5) TRENCH ZONE COMPACTION REQUIREMENTS:
   -- ALL COMPACTION OPERATIONS SHALL COMPLY WITH SECTION 703.6.3
   -- DENSITY REQUIREMENTS:
      1. FROM 2-FEET OVER THE PIPE TO WITHIN 3-FEET OF THE SUBGRADE: A MINIMUM OF 90% OF MAXIMUM DENSITY.
      2. WITHIN 3-FEET OF THE BOTTOM OF SUBGRADE: A MINIMUM OF 95% OF MAXIMUM DENSITY.

CITY OF MADISON WATER UTILITY	NOT TO SCALE	TYPICAL WATER PIPE TRENCH

City of Madison Standard Specifications for Public Works Construction

PART VII - WATER MAINS AND SERVICE LATERALS

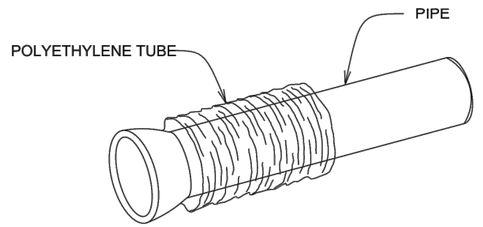
DETAIL DRAWING NO. **7.02**

REVISED: 12/2015

FIELD INSTALLATION-POLYETHYLENE WRAP

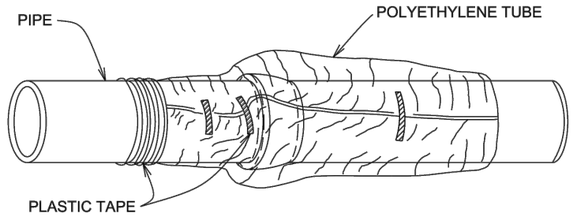
STEP-1

CLEAN SURFACE OF PIPE. CUT POLYETHYLENE TWO FEET LONGER THAN THE PIPE (8 MIL MIN.). PLACE TUBE OF POLYETHYLENE MATERIAL AROUND PIPE PRIOR TO LOWERING PIPE INTO TRENCH. DIG BELL HOLES AT JOINTS, LOWER PIPE.



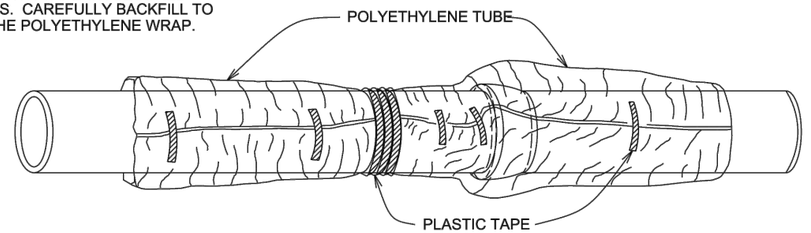
STEP-2

LIFT ENOUGH TO PULL THE TUBE OVER THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH THREE CIRCUMFERENTIAL TURNS OF TWO-INCH WIDE PLASTIC TAPE TO HOLD PLASTIC TUBE AROUND SPIGOT END.



STEP-3

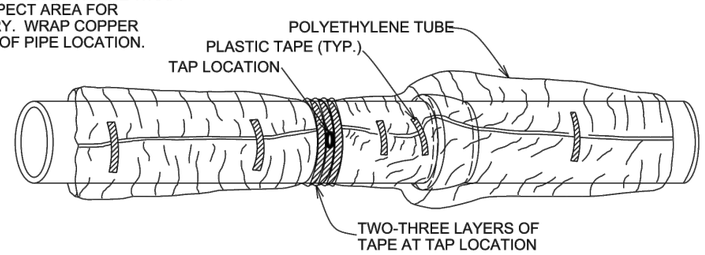
ADJACENT TUBE OVERLAPS FIRST TUBE AND IS SECURED WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE WILL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED INTO AN OVERLAP ON TOP OF THE PIPE AND HELD IN PLACE BY MEANS OF PIECES OF THE PLASTIC TAPE AT APPROX. THREE FOOT INTERVALS. REPAIR ANY TEARS WITH TAPE OR SECURED POLYWRAP PATCHES. CAREFULLY BACKFILL TO AVOID DAMAGING THE POLYETHYLENE WRAP.



TAPPING POLYETHYLENE WRAP

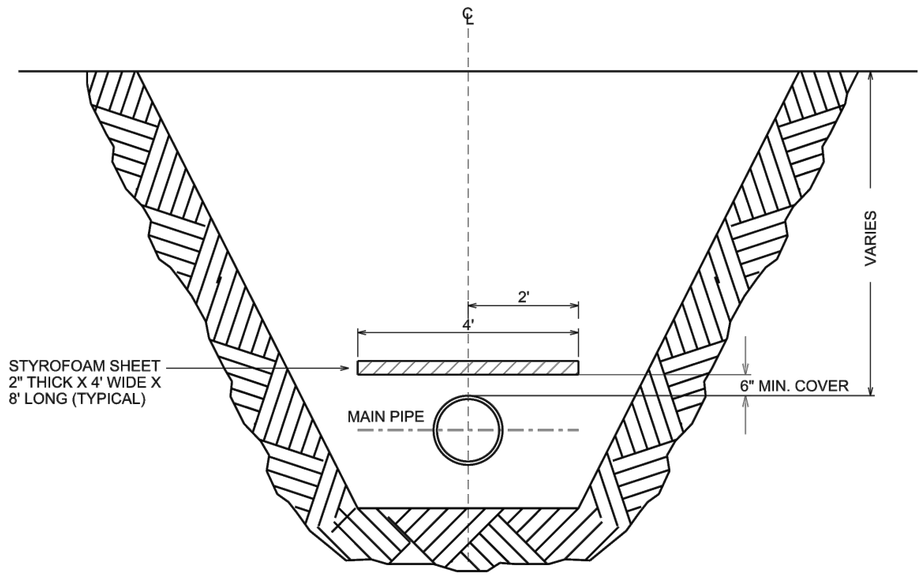
STEP-1

WRAP TWO OR THREE LAYERS OF TAPE COMPLETELY AROUND PIPE WHERE TAPPING MACHINE WILL BE PLACED. MOUNT TAPPING MACHINE ON TAPED AREA AND TAP DIRECTLY THROUGH THE TAPE AND POLYETHYLENE WRAP. INSTALL CORPORATION STOP. INSPECT AREA FOR DAMAGE AND REPAIR IF NECESSARY. WRAP COPPER SERVICE LINE WITHIN THREE FEET OF PIPE LOCATION.



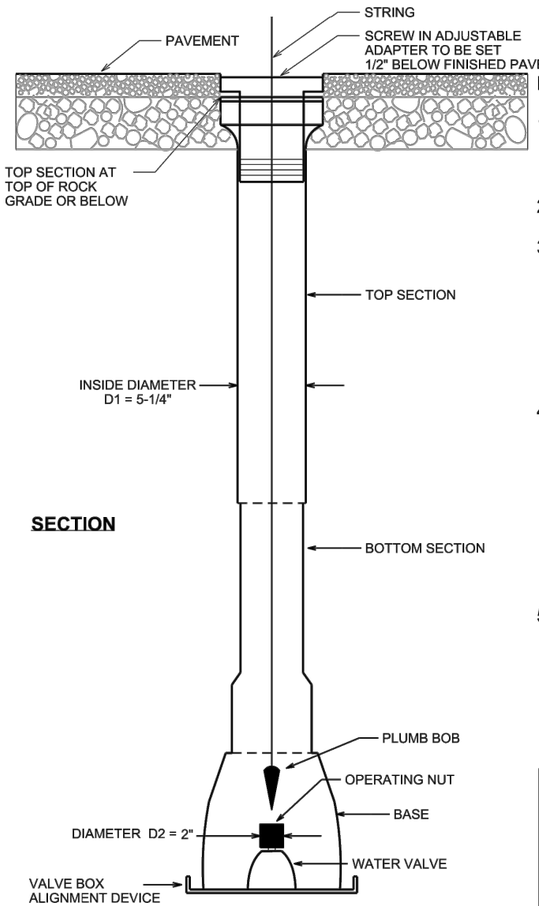
CITY OF MADISON WATER UTILITY	NOT TO SCALE	FIELD INSTALLATION POLYETHYLENE WRAP / TAPPING POLYETHYLENE WRAP

City of Madison Standard Specifications for Public Works Construction

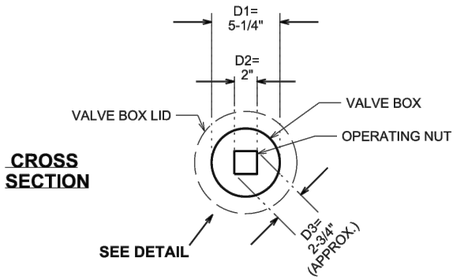


NOTE: ALL STYROFOAM TO BE 2" THICK HIGH DENSITY POLYSTYRENE BOARD

CITY OF MADISON WATER UTILITY	NOT TO SCALE	TYPICAL STYROFOAM INSTALLATION



SECTION

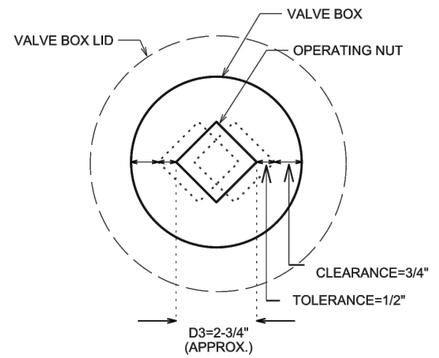


CROSS SECTION

NOTES:

1. VALVE BOX SHALL BE LOCATED PLUMB AND CENTERED WITH RESPECT TO THE VALVE OPERATING NUT.
2. ALLOWABLE TOLERANCE SHALL BE 1/2"
3. PLUMBNESS AND ALIGNMENT SHALL BE VERIFIED WITH A PLUMB BOB, LOCATING THE VALVE NUT WITHIN THE ALLOWABLE TOLERANCE, AND CONFIRMING THAT THE VALVE IS OPERATIONAL WITHOUT THE VALVE KEY TOUCHING THE INSIDE EDGE OF THE VALVE BOX.
4. FOR STREETS WITH SLOPE GREATER THAN 3% THAT DO NOT ALLOW EASY PLUMBNESS VERIFICATION, THE VALVE BOX STRAIGHTNESS SHALL BE VISUALLY ASSESSED VERIFYING ITS RELATIVE CENTERED POSITION, CONFIRMING THAT THE VALVE IS OPERATIONAL WITHOUT THE VALVE KEY TOUCHING THE INSIDE EDGE OF THE VALVE BOX AND RESTRICTING ITS USE.
5. FOR VALVE BOXES GREATER THAN 10 FT, UTILIZE ONE CONTINUOUS TUBE OF PVC CUT TO APPROPRIATE LENGTH INSIDE VALVE BOX TO MAINTAIN ALIGNMENT THROUGHOUT CONSTRUCTION

DETAIL

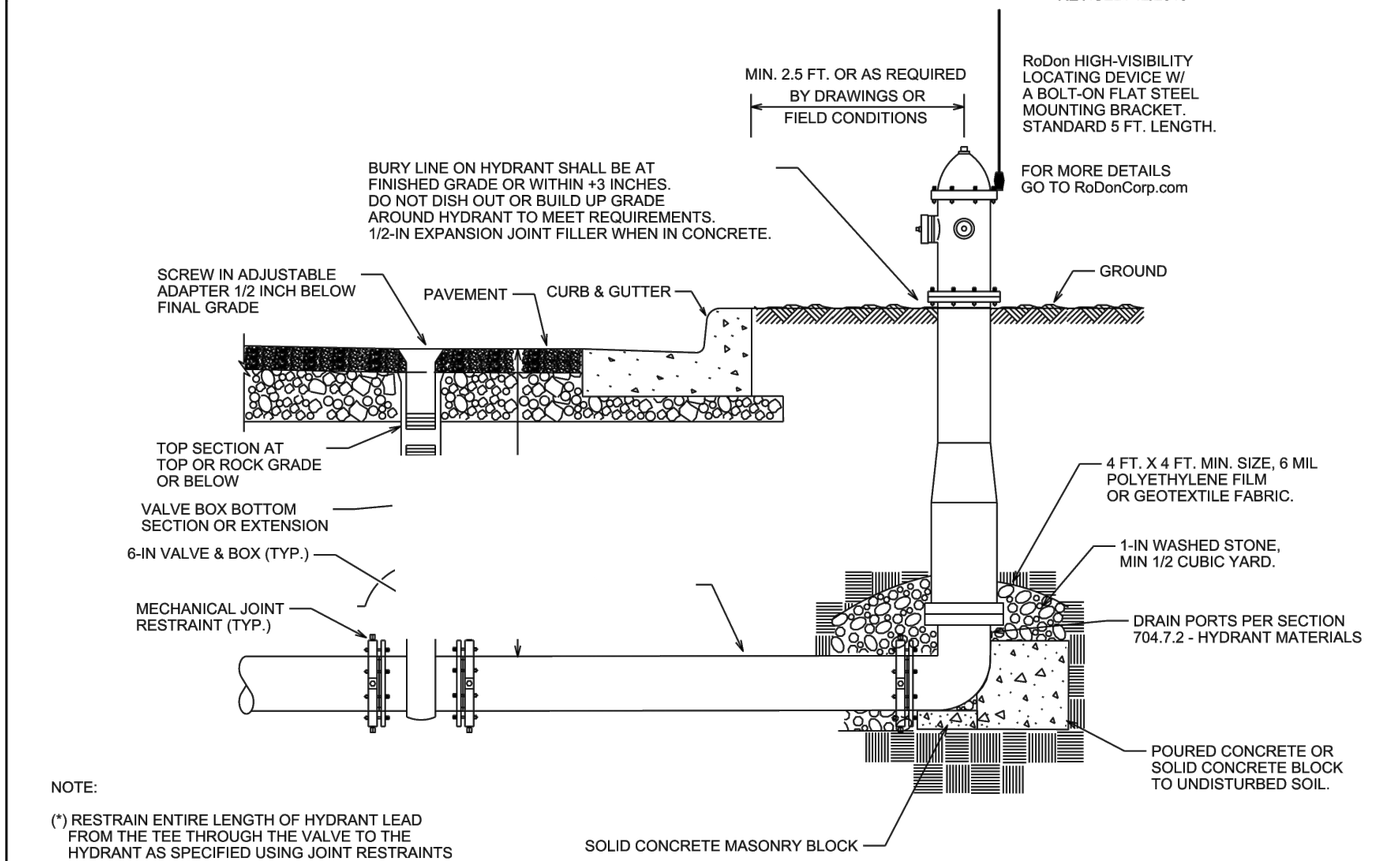


CITY OF MADISON WATER UTILITY	NOT TO SCALE	WATER VALVE BOX ALIGNMENT

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021002_CD WATER.DWG
LAYOUT NAME - 02
PLOT DATE : 1/21/2022 9:19 AM
PLOT BY : AYRES
PLOT NAME :
PLOT SCALE : 1 IN:10 FT_1
WISDOT/CADDS SHEET 42

DETAIL DRAWING NO. **7.04**

REVISED: 12/2019

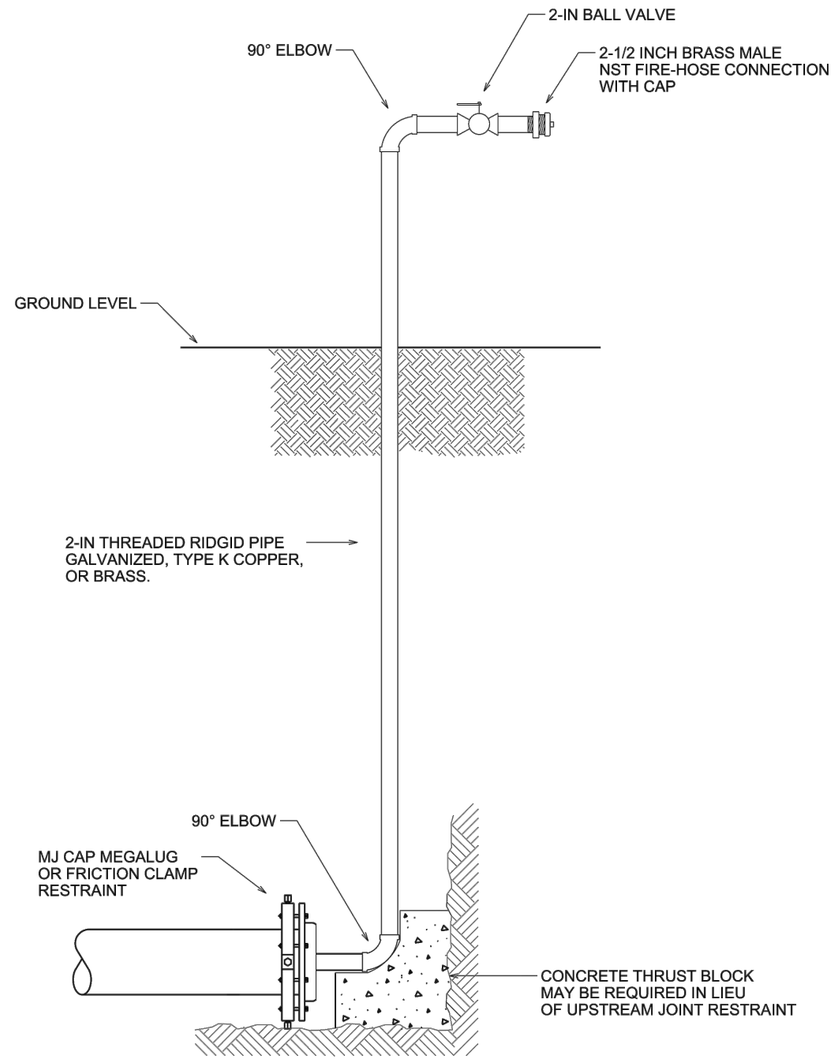


NOTE:

(*) RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

CITY OF MADISON WATER UTILITY	NOT TO SCALE	TYPICAL HYDRANT INSTALLATION

City of Madison Standard Specifications for Public Works Construction



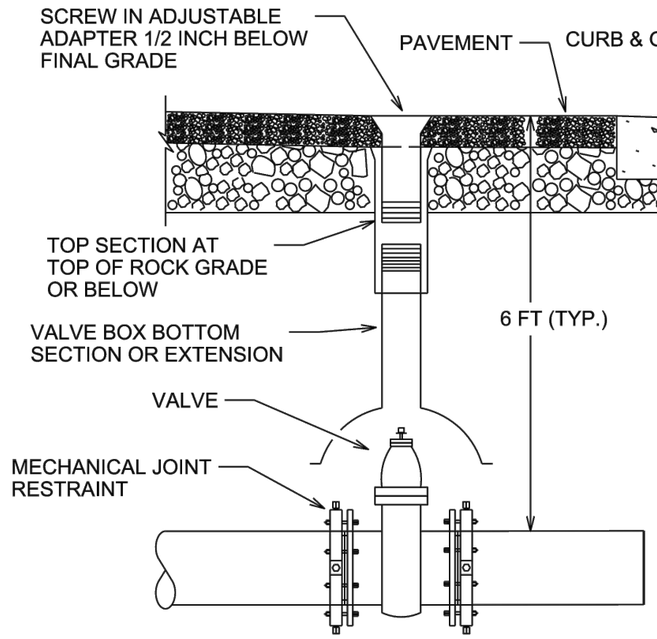
CITY OF MADISON WATER UTILITY	NOT TO SCALE	2-IN TEMPORARY FLUSHING / BLOW-OFF FOR 8-IN PIPE AND SMALLER

City of Madison Standard Specifications for Public Works Construction

2

DETAIL DRAWING NO. **7.08**

REVISED: 12/2019



NOTES

1. SCREW IN ADJUSTABLE ADAPTER SHALL BE RITE-HITE OR APPROVED EQUAL - SEE SECTION 702 STANDARD SPECS
2. MODIFYING THE VALVE BOX OR ADAPTER IN ANY WAY IS NOT PERMITTED
3. VALVE BOX TOP SECTION SHOULD BE INSTALLED AT TOP OF ROCK ROCK GRADE OR BELOW AT INITIAL INSTALLATION
4. DEPENDING ON WATER MAIN DEPTH, AN EXTENSION MAY BE SUBSTITUTED FOR BOTTOM SECTION TO ACHIEVE CLEARANCE FOR SCREW TYPE ADAPTER

CITY OF MADISON WATER UTILITY	NOT TO SCALE	TYPICAL VALVE & BOX INSTALLATION

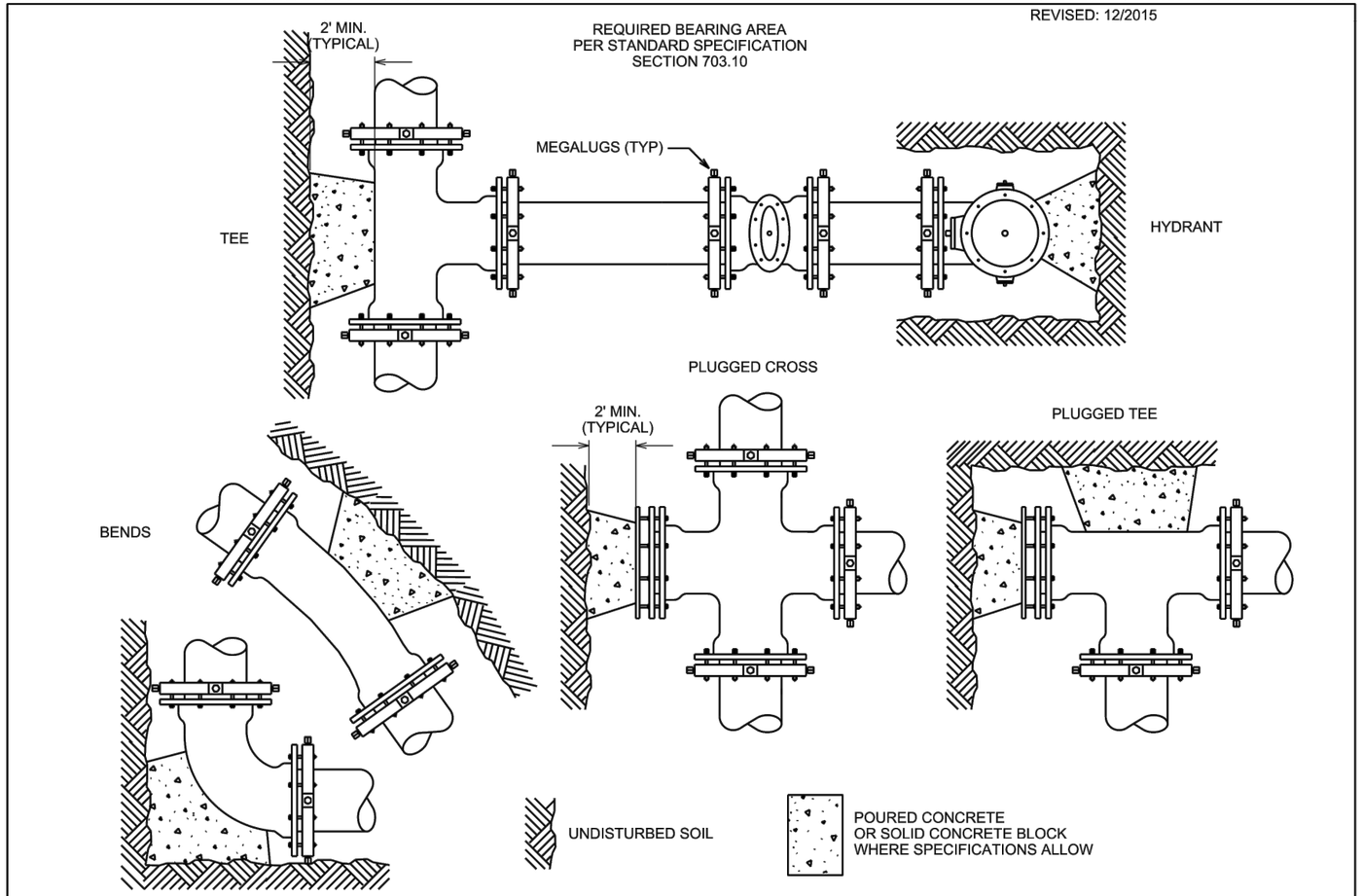
City of Madison Standard Specifications for Public Works Construction

2

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. **7.13**

REVISED: 12/2015



CITY OF MADISON WATER UTILITY	NOT TO SCALE	STANDARD CONCRETE BLOCK THRUST RESTRAINT

City of Madison Standard Specifications for Public Works Construction

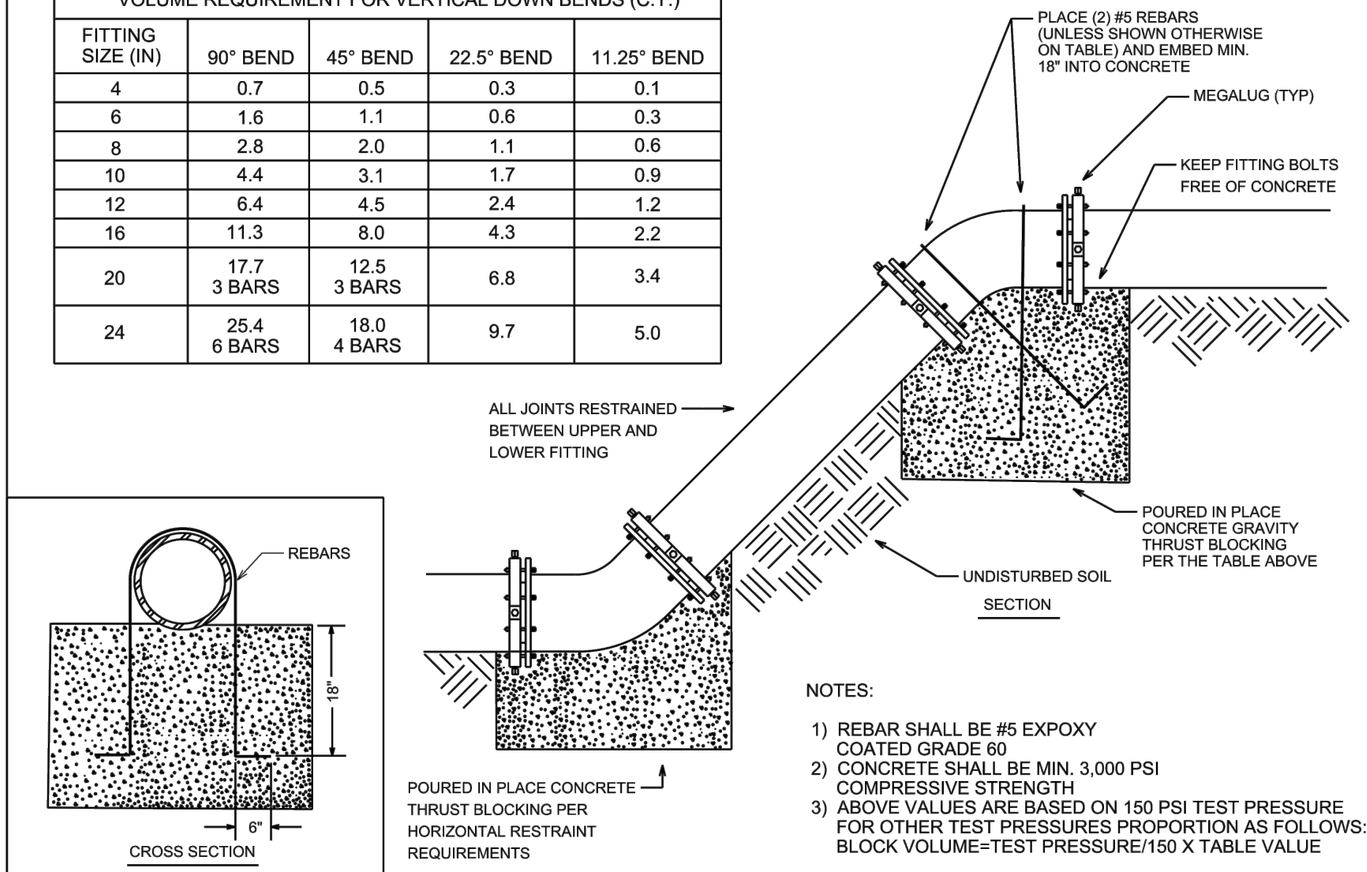
2

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. **7.14**

REVISED: 12/2015

VOLUME REQUIREMENT FOR VERTICAL DOWN BENDS (C.Y.)				
FITTING SIZE (IN)	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4	0.7	0.5	0.3	0.1
6	1.6	1.1	0.6	0.3
8	2.8	2.0	1.1	0.6
10	4.4	3.1	1.7	0.9
12	6.4	4.5	2.4	1.2
16	11.3	8.0	4.3	2.2
20	17.7 3 BARS	12.5 3 BARS	6.8	3.4
24	25.4 6 BARS	18.0 4 BARS	9.7	5.0

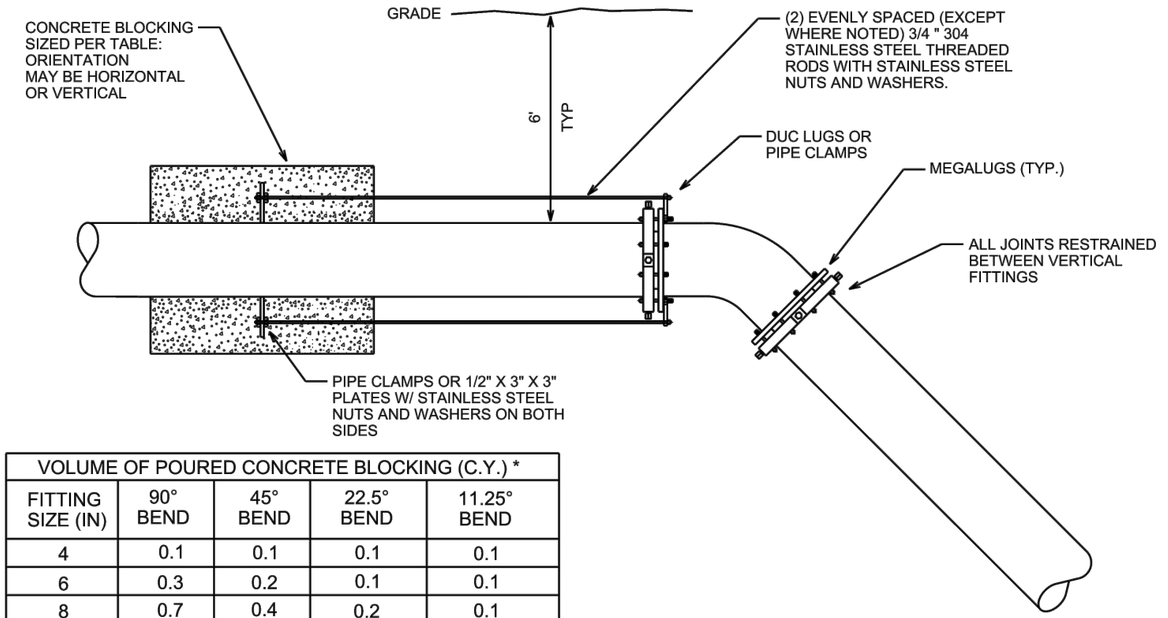


NOTES:

1) REBAR SHALL BE #5 EXPOXY COATED GRADE 60
2) CONCRETE SHALL BE MIN. 3,000 PSI COMPRESSIVE STRENGTH
3) ABOVE VALUES ARE BASED ON 150 PSI TEST PRESSURE FOR OTHER TEST PRESSURES PROPORTION AS FOLLOWS: BLOCK VOLUME=TEST PRESSURE/150 X TABLE VALUE

CITY OF MADISON WATER UTILITY	NOT TO SCALE	GRAVITY BLOCK THRUST RESTRAINT FOR VERTICAL BENDS

City of Madison Standard Specifications for Public Works Construction



VOLUME OF POURED CONCRETE BLOCKING (C.Y.) *				
FITTING SIZE (IN)	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4	0.1	0.1	0.1	0.1
6	0.3	0.2	0.1	0.1
8	0.7	0.4	0.2	0.1
10	1.3	0.8	0.3	0.1
12	2.1	1.3	0.6	0.2
16	4.6	2.9	1.3	0.5
20	8.2 4 RODS	5.4 3 RODS	2.3	0.9
24	13.0 5 RODS	8.4 4 RODS	3.8	1.5

* CONCRETE SHALL BE A MIN. 3000 PSI COMPRESSIVE STRENGTH

NOTE:

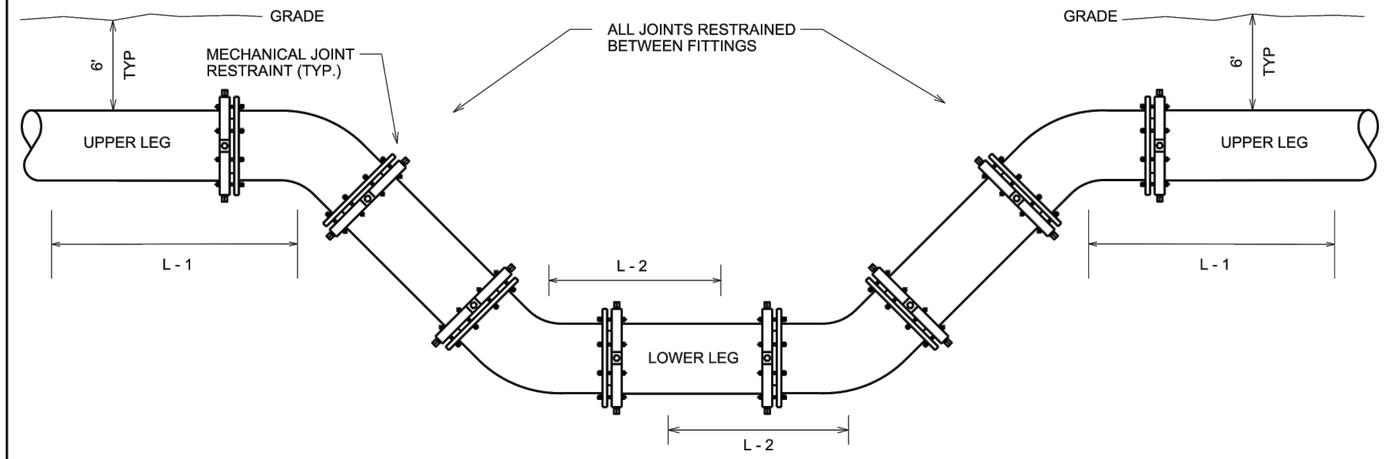
THIS METHOD MAY ONLY BE USED WHERE SPECIFIED OR WITH ENGINEER'S APPROVAL

CITY OF MADISON WATER UTILITY	NOT TO SCALE	ROD & CONCRETE BLOCK THRUST RESTRAINT FOR VERTICAL BENDS

City of Madison Standard Specifications for Public Works Construction

DETAIL DRAWING NO. **7.16**

REVISED: 12/2018



L - 1: RESTRAINED JOINT LENGTH
UPPER LEG OF VERTICAL BEND

L - 2: RESTRAINED JOINT LENGTH
LOWER LEG OF VERTICAL BEND

	90° BEND		45° BEND		22.5° BEND		11.25° BEND	
FITTING SIZE (IN)	L - 1 (FT)	L - 2 (FT)	L - 1 (FT)	L - 2 (FT)	L - 1 (FT)	L - 2 (FT)	L - 1 (FT)	L - 2 (FT)
4	33 *	33 *	13	3	6	2	3	1
6	46 *	46 *	18	4	9	2	5	1
8	61 *	61 *	24	5	12	3	6	2
10	73 *	73 *	28	6	14	3	7	2
12	87 *	87 *	34	7	16	4	8	2
16	112 *	112 *	43	10	21	5	11	3
20	137 *	137 *	53	12	26	6	13	3
24	161 *	161 *	62	13	30	7	15	4

NOTES:
SOURCE: Adapted from the EBAA Iron Restraint Length Calculator, Version 7.1.2
Materials = Poly Wrapped Ductile Iron Pipe
Soil Type = GM (Silty Gravels, Gravel-Sand-Silt Mixtures)
Test Pressure = 150 PSI
* SOURCE: DIPRA - THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE

Safety Factor = 1.5
Trench Type = 4
Bury Depth = 6'
Low Side Depth = 8'

CITY OF MADISON WATER UTILITY	NOT TO SCALE	JOINT RESTRAINT LENGTHS FOR VERTICAL BENDS

City of Madison Standard Specifications for Public Works Construction

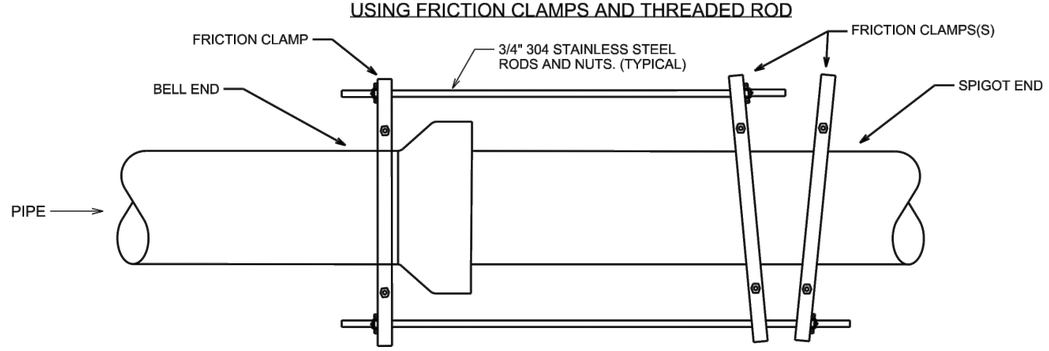
2

PART VII - WATER MAINS AND SERVICE LATERALS

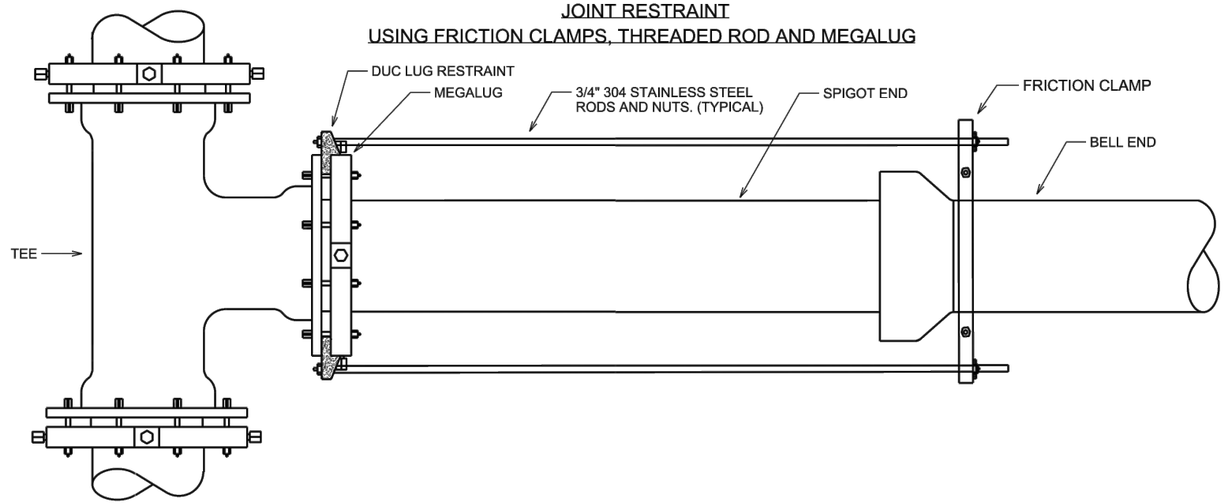
DETAIL DRAWING NO. **7.17**

REVISED: 12/2015

JOINT RESTRAINT
USING FRICTION CLAMPS AND THREADED ROD



JOINT RESTRAINT
USING FRICTION CLAMPS, THREADED ROD AND MEGALUG



CITY OF MADISON WATER UTILITY	NOT TO SCALE	THREADED ROD - JOINT RESTRAINT

City of Madison Standard Specifications for Public Works Construction

DETAIL DRAWING NO. **7.21**

REVISED: 12/2021

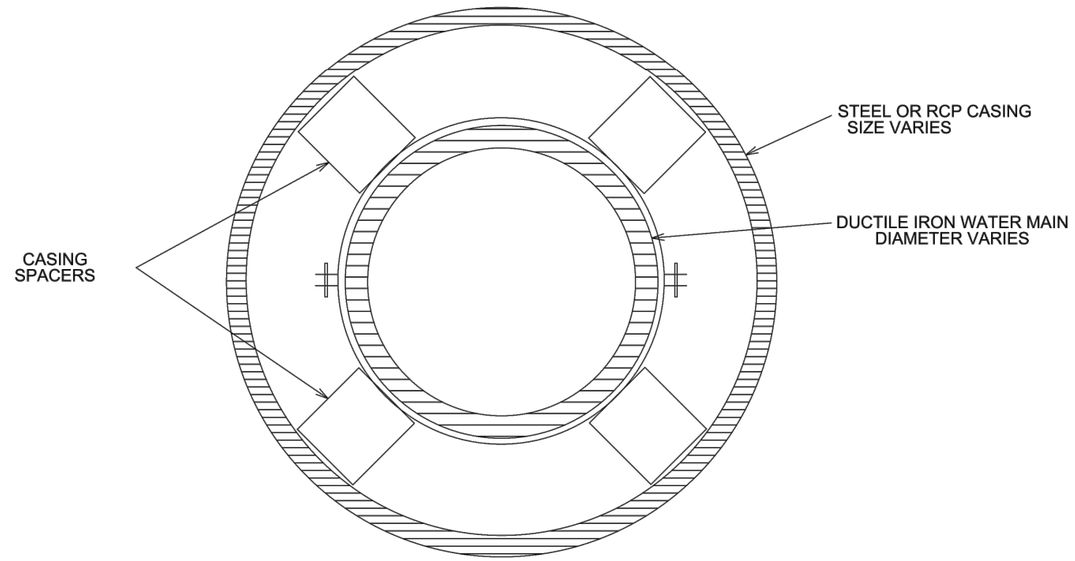
NOTES:

-WATER MAINS WITHIN CASING PIPES MUST USE APPROVED MANUFACTURED CASING SPACERS PER STANDARD SPECIFICATIONS SECTION 704.5 - 'FURNISH AND INSTALL CASING'.

-ONE CASING SPACER PLACED AT 10' INTERVALS.

-ONE SPACER MUST BE PLACED TO SUPPORT THE WATER PIPE WITHIN 2' OF THE END OF THE CASING PIPE.

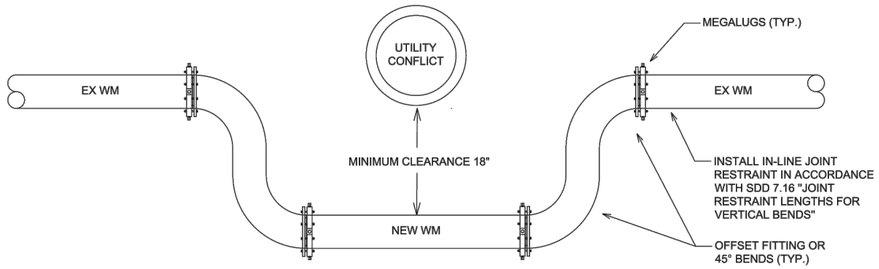
-8" WIDE SPACERS ON SIZES UP TO 30" PIPE.



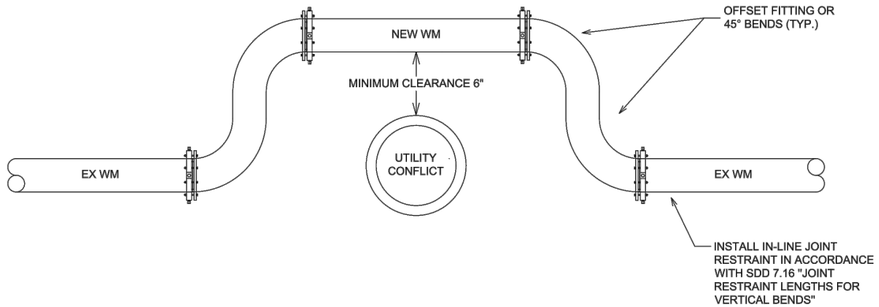
CITY OF MADISON WATER UTILITY	NOT TO SCALE	CASING SPACERS

City of Madison Standard Specifications for Public Works Construction

OFFSETTING UNDER UTILITY CONFLICTS
(PREFERRED METHOD)



OFFSETTING ABOVE UTILITY CONFLICTS
(ALTERNATE METHOD WITH ENGINEER APPROVAL)



NOTES:

1) CLEARANCE SHALL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS, AS INDICATED ON THE CONSTRUCTION DRAWINGS, OR AS OTHERWISE AUTHORIZED BY THE ENGINEER.

2) CROSSING BELOW THE EXISTING UTILITY IS THE PREFERRED METHOD, CROSSING ABOVE ONLY WHEN AUTHORIZED BY THE ENGINEER, OR UNDER SPECIAL CIRCUMSTANCES.

3) MINIMUM ALLOWABLE CLEARANCE WHEN CROSSING BELOW SANITARY OR STORM SEWERS IS 18-IN,

4) IF REQUIRED CLEARANCE CANNOT BE OBTAINED, USE 45° FITTINGS IN LIEU OF OFFSET FITTINGS.

5) 11.25°, 22.5°, OR 90° FITTINGS ARE NOT ALLOWED WITHOUT ENGINEER APPROVAL.

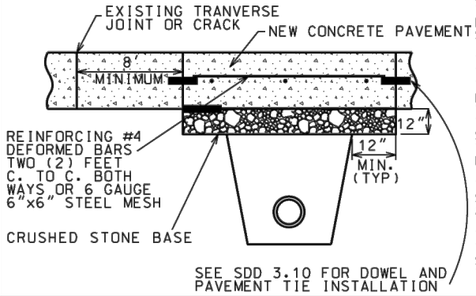
6) INSULATE AS REQUIRED PER THE STANDARD SPECIFICATIONS OR AS INDICATED ON THE DRAWINGS.

7) NEW PIPE SHALL HAVE NO JOINTS BETWEEN FITTINGS.

CITY OF MADISON WATER UTILITY	NOT TO SCALE	OFFSETTING EXISTING WATER MAIN OVER/UNDER UTILITY CONFLICTS

City of Madison Standard Specifications for Public Works Construction

TYPE I
CONCRETE PAVEMENT



TYPE I UTILITY TRENCH PATCH

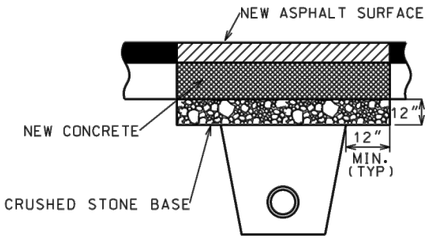
THE PAVEMENT SHALL BE REMOVED IN TWO STAGES. THE INITIAL PAVEMENT REMOVAL SHALL BE LIMITED TO THE AREA OF THE PROPOSED TRENCH. FULL-DEPTH SAWCUTTING WILL NOT BE REQUIRED FOR THIS PHASE OF THE PAVEMENT REMOVAL. AFTER THE TRENCH HAS BEEN BACKFILLED AND COMPACTED, AND AFTER THE BASE HAS BEEN RESTORED IN THE AREA OF THE TRENCH, AND AFTER SAWCUTTING THE NEW JOINTS THE FULL DEPTH OF THE EXISTING PAVEMENT (INCIDENTAL), THE REMAINING PAVEMENT TO BE REMOVED SHALL BE REMOVED WITHOUT DISTURBING THE EXISTING BASE.

THE SIZE OF THE PATCH SHALL BE DETERMINED BY THE TOP WIDTH OF THE TRENCH, THE LOCATION AND SKEW OF THE EXISTING TRANSVERSE JOINTS, THE CONDITION OF THE EXISTING PAVEMENT, AND THE CONDITION OF THE BASE. NEW TRANSVERSE JOINTS SHALL BE PARALLEL TO THE EXISITING TRANSVERSE JOINTS, AND SHALL BE A MININUM OF ONE (1) FOOT FROM THE TRENCH. THE DISTANCE BETWEEN NEW AND EXISTING TRANSVERSE JOINTS SHALL BE A MINIMUM OF EIGHT (8) FEET, MEASURED PERPENDICULAR TO THE JOINTS. THE PATCH SHALL BE A MINIMUM OF EIGHT (8) FEET IN LENGTH, AND SHALL HAVE THE SAME WIDTH AS THE PAVEMENT LANE.

THE PATCH SHALL BE TEN (10) INCHES IN THICKNESS OF HIGH EARLY STRENGTH CONCRETE, DOWELED AND TIED WITH EPOXY COATED BARS, AND REINFORCED, ALL IN ACCORDANCE WITH THE TYPICAL SECTION.

THE TRANSVERSE EDGES OF THE FINISHED PATCH SHALL BE FLUSH WITH THE EDGES OF THE EXISTING CONCRETE PAVEMENT. THE LONGITUDINAL SURFACE SHALL FORM A STRAIGHT LINE FROM EDGE TO EDGE WITHIN A TOLERANCE OF $^{1}/_{8}$ INCH.

TYPE II
CONCRETE WITH ASPHALTIC OVERLAY



TYPE II UTILITY TRENCH PATCH

THE PATCH SHALL BE 7" HIGH EARLY STRENGTH CONCRETE BASE WITH THE SAME REINFORCEMENT AS THE EXISTING CONCRETE BASE, OVERLAID WITH ASPHALT UPPER LAYER. WHERE SPECIFIED, OR DIRECTED BY THE ENGINEER, THE BASE SHALL BE CONSTRUCTED OF ASPHALTIC BASE COURSE MATERIAL, SHALL BE THE SAME THICKNESS AS THE EXISTING BASE, AND SHALL BE LAID IN TWO OR MORE COMPACTED LIFTS OF NOT MORE THAN 3" IN THICKNESS EACH.

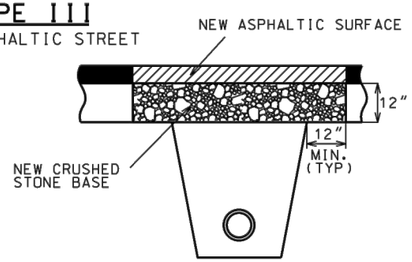
THE PAVEMENT ALONG THE PATCH SHALL BE SAWCUT, FULL DEPTH, AND INCIDENTAL TO THE TRENCH PATCH. THE EDGES OF THE PATCH SHALL BE VERTICAL, FREE OF LOOSE STONES OR CONCRETE PIECES, AND SHALL BE THOROUGHLY WETTED JUST PRIOR TO POURING THE NEW CONCRETE BASE.

THE TOP OF THE NEW CONCRETE OR ASPHALT BASE SHALL BE FLUSH WITH THE TOP OF THE EXISTING CONCRETE BASE.

PRIOR TO PLACING THE ASPHALT UPPER LAYER, THE EDGES OF THE PATCH AND THE SURFACE OF THE NEW CONCRETE BASE SHALL BE THOROUGHLY TACKED WITH LIQUID ASPHALT.

THE ASPHALT UPPER LAYER SHALL BE OF THE SAME THICKNESS AS THE EXISTING ASPHALT OVERLAY WITH A MINIMUM THICKNESS OF 3" AND A MAXIMUM THICKNESS OF 6" UNLESS OTHERWISE SPECIFIED AND SHALL BE LAID IN ONE OR MORE COURSES AS DIRECTED BY THE ENGINEER. THE ASPHALTIC UPPER LAYER SHALL BE MACHINE LAID WHERE DIRECTED BY THE ENGINEER. WHERE THE ASPHALTIC UPPER LAYER IS MACHINE LAID, AND IS NOT MORE THAN 3" IN THICKNESS, THE ASPHALTIC SURFACE MAY BE LAID IN ONE LIFT.

TYPE III
ASPHALTIC STREET



TYPE III UTILITY TRENCH PATCH

THE PATCH SHALL BE CRUSHED STONE BASE COURSE, GRADATION NO. 2 OVERLAID WITH ASPHALT UPPER LAYER EQUAL IN THICKNESS TO THE EXISTING ASPHALTIC PAVEMENT WITH A MINIMUM THICKNESS OF 3.5" AND A MAXIMUM THICKNESS OF 6" UNLESS OTHERWISE SPECIFIED AND LAID IN ONE OR MORE COURSES AS DIRECTED BY THE ENGINEER.

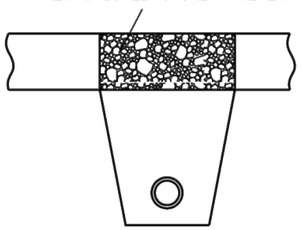
THE PAVEMENT ALONG THE PATCH SHALL BE SAWCUT, FULL DEPTH, AND INCIDENTAL TO THE TRENCH PATCH. THE EDGES OF THE EXISTING ASPHALTIC PAVEMENT SHALL BE FREE OF LOOSE STONES OR PAVEMENT MATERIAL.

THE CRUSED STONE BASE COURSE SHALL BE INSTALLED IN TWO LIFTS. THE LOWER LIFT SHALL BE THOROUGHLY MECHANICALLY COMPACTED PRIOR TO PLACING THE UPPER LIFT.

THE ASPHALT UPPER LAYER SHALL BE LAID IN TWO LIFTS. THE ASPHALT UPPER LAYER SHALL BE MACHINE LAID WHERE DIRECTED BY THE ENGINEER. WHERE THE ASPHALTIC UPPER LAYER IS MACHINE LAID AND IS NOT MORE THAN 3" IN THICKNESS, THE ASPHALT SURFACE COURSE MAY BE IN ONE LIFT.

PRIOR TO PLACING THE ASPHALT UPPER LAYER, THE EDGES OF THE PATCH AND THE SURFACE OF THE CRUSED STONE BASE SHALL BE TACKED AND PRIMED WITH LIQUID ASPHALT.

TYPE IV



TYPE IV UTILITY TRENCH PATCH

THE PATCH SHALL BE 12" CRUSHED STONE BASE COURSE, GRADATION NO. 2. FULL DEPTH SAWCUTTING OF ADJACENT PAVEMENT (IF ANY) SHALL BE CONSIDERED INCIDENTAL TO THE TRENCH PATCH.

THE CRUSHED STONE BASE COURSE SHALL BE INSTALLED IN THREE LIFTS. EACH LIFT SHALL BE THOROUGHLY MECHANICALLY COMPACTED PRIOR TO PLACING SUCCEEDING LIFTS.

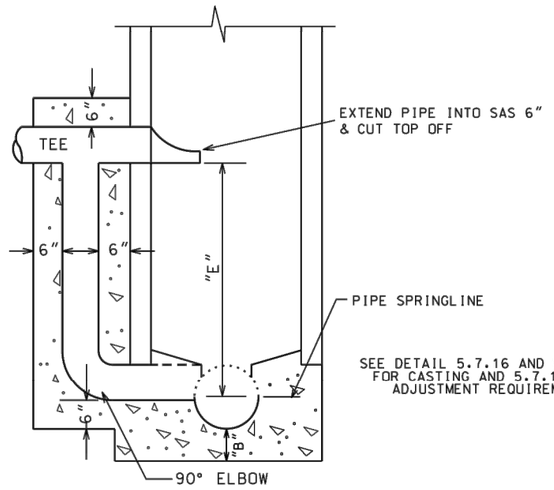
CITY OF MADISON
ENGINEERING DIVISION

TYPICAL PAVEMENT PATCH SECTIONS

2019

STANDARD DETAIL DRAWING 5.2.4

5.2.4



DETAIL A

SHOWING DROP INLET CONSTRUCTION FOR SANITARY SEWER MAINS & LATERALS

NOTES:

1) PRECAST S.A.S. SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C-478.

2) THICKNESS OF BASE, "B":
   6" MIN. FOR 4' DIAMETER SAS
   8" MIN. FOR 5' AND 6' DIAMETER SAS

3) FOR CASTING DESIGNATION REFER TO STANDARD DETAIL DRAWING 5.7.16 AND 5.7.16A

4) CENTERED (CONCENTRIC) CONE SHALL BE INSTALLED UNLESS OTHERWISE DIRECTED.

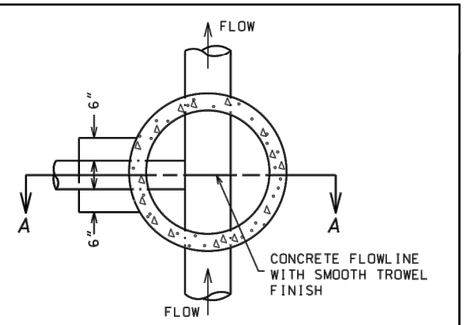
5) DROP INLET SHALL BE BUILT FOR ALL SEWER MAINS AND LATERALS WHEN "E" IS GREATER THAN 24". "E" SHOULD BE MEASURED FROM INVERT OF INCOMING PIPE TO THE SPRINGLINE OF THE OUTGOING SEWER. INSIDE DROP PER STANDARD DETAIL DRAWING 5.7.30 MAY BE INSTALLED FOR 4" AND 6" SERVICE CONNECTIONS WHERE OUTSIDE DROP INLET CONSTRUCTION IS INFEASIBLE. ENGINEER SHALL APPROVE INSIDE DROP INLET PRIOR TO INSTALLATION.

6) FLEXIBLE PIPE TO SAS CONNECTOR REQUIRED PER STANDARD DETAIL DRAWING 5.7.31

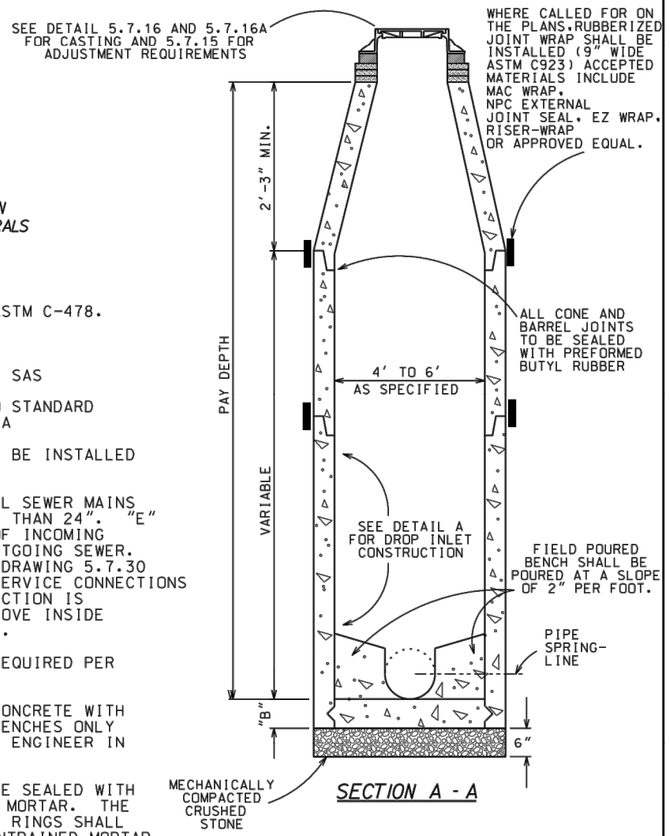
7) ALL BENCHES TO BE FIELD POURED CONCRETE WITH SMOOTH TROWEL FINISH. PRECAST BENCHES ONLY PERMITTED WITH PRIOR APPROVAL OF ENGINEER IN WRITING.

8) ALL JOINTS BETWEEN RINGS SHALL BE SEALED WITH $\frac{3}{8}$" OF AIR-ENTRAINED TYPE M OR S MORTAR. THE OUTSIDE SURFACE OF THE ADJUSTING RINGS SHALL BE SEALED WITH A $\frac{1}{2}$" THICK AIR-ENTRAINED MORTAR TYPE M OR S SEAL. THE METHOD USED FOR SEALING THE OUTSIDE SURFACE SHALL BE COMPATIBLE WITH THAT USED TO SEAL JOINTS BETWEEN THE RINGS.

9) PRECAST SANITARY SEWER ACCESS STRUCTURES FOR STREET RECONSTRUCTION PROJECTS AND FOR STREET EXCAVATION PERMITS REQUIRE PRECAST SHOP DRAWING APPROVAL FROM CITY ENGINEERING. PRIOR TO BEING FABRICATED BY THE MANUFACTURER NO PRECAST SHOP DRAWINGS ARE REQUIRED FOR NEW CONSTRUCTION IN SUBDIVISION DEVELOPMENTS.



TOP VIEW

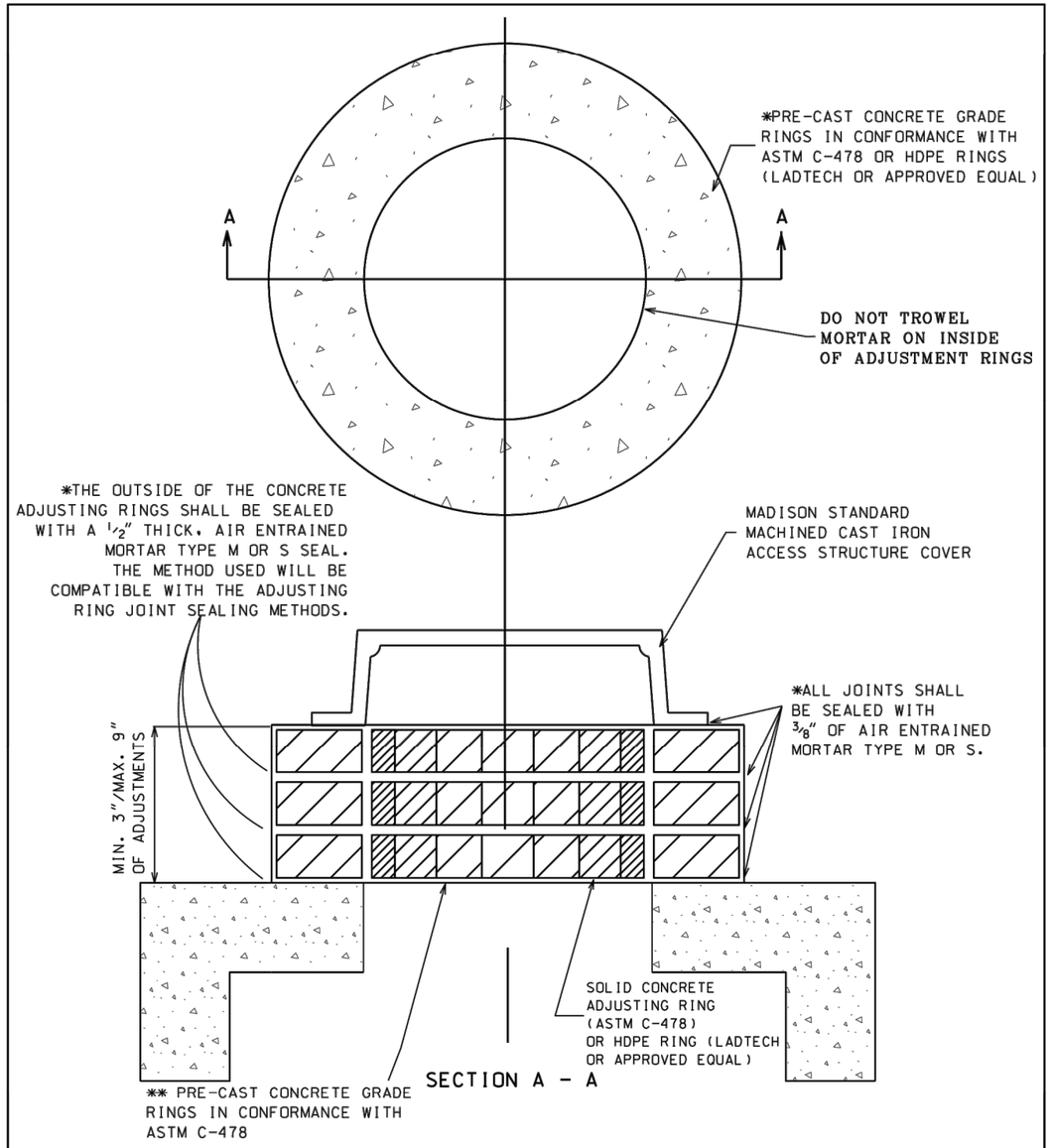


SECTION A - A

2015

CITY OF MADISON ENGINEERING DIVISION
SANITARY SEWER PRECAST SAS
STANDARD DETAIL DRAWING 5.7.2

5.7.2



** NOTE: HDPE ADJUSTMENT RINGS (LADTECH OR APPROVED EQUAL) MEETING AASHTO HS25 SPECS. ASTM D-1248 INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS WILL BE CONSIDERED AN ACCEPTABLE ALTERNATE TO PRECAST RINGS. IF PRO-RINGS ARE INSTALLED FOR THE WHOLE ADJUSTMENT. CONTRACTOR WILL BE PAID FOR AN INTERNAL CHIMNEY SEAL. PRO-RING ADJUSTMENT IS CONSIDERED TO BE EQUIVALENT OF AN INTERNAL CHIMNEY SEAL. PRO-RING SHALL HAVE M-1 ADHESIVE BETWEEN RINGS. CRETEX PRO RING WILL BE CONSIDERED AN ACCEPTED ALTERNATE FOR PRECAST RINGS.
RING JOINT SEALANT SHALL BE ASTM C990 AND AASHTO M-198 (TROWLABLE EZ-STICK #3 OR EQUAL)

2019

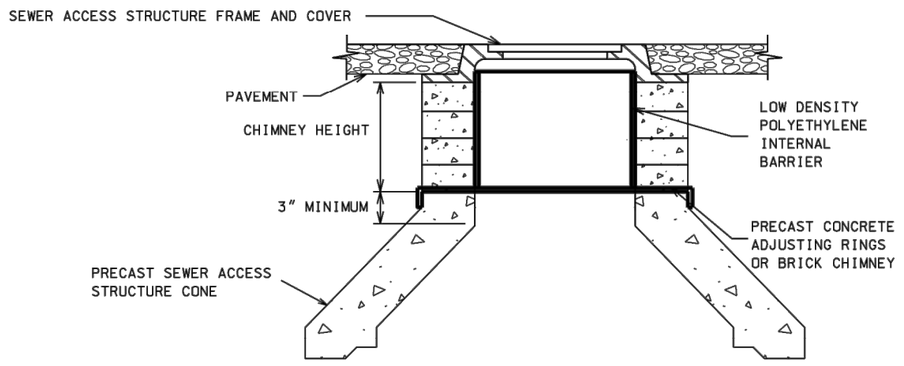
CITY OF MADISON
ENGINEERING DIVISION

SAS CHIMNEY
AND CASTING

STANDARD DETAIL DRAWING 5.7.15

5.7.15

2



LOW DENSITY POLYETHYLENE INTERNAL BARRIER

5.7.17

INTERNAL CHIMNEY SEALS SHALL BE USED ON
ALL SANITARY SEWER ACCESS STRUCTURES
AT THE FOLLOWING LOCATIONS:
1) WITHIN 100' OF A STREET LOW POINT
2) ALL GREENWAYS
3) WHERE SPECIFIED BY THE ENGINEER

AN INTERNAL CHIMNEY SEAL WHERE NEEDED, SHALL BE INSTALLED TO COVER THE ENTIRE CHIMNEY AREA IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. FRAME SEALS SHALL CONSIST OF THE FOLLOWING INTERNAL SEAL:

LOW DENISTY POLYETHYLENE INTERNAL BARRIER

A LOW DENSITY POLYETHYLENE INTERNAL BARRIER SHALL MAINTAIN THEIR ADHESION ALLOWING REPEATED HORIZONTAL MOVEMENT OF NOT LESS THAN 1 INCH. THE BARRIER SHALL HAVE A MINIMUM THICKNESS OF 1/4 INCH AND CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
ASTM D 1248, D 1238, D 790, D 648, D 1693, ASTN D-792, UL-94.

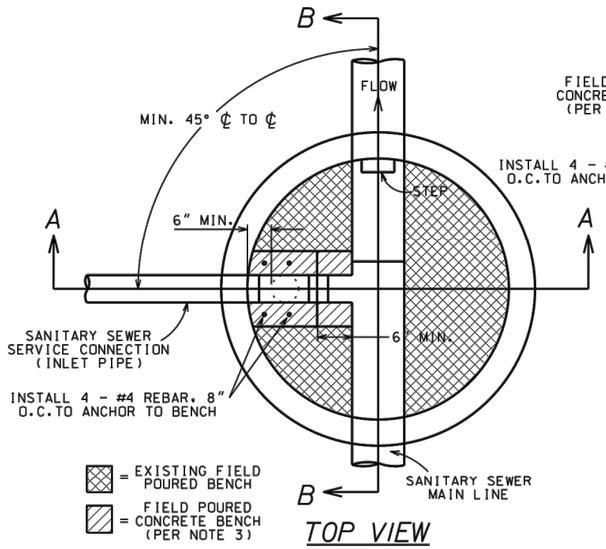
IF CRETEX PRO-RINGS ARE INSTALLED FOR THE ENTIRE ADJUSTMENT,
CONTRACTOR WILL BE PAID FOR AN INTERNAL CHIMNEY SEAL.
CRETEX PRO-RING SHALL HAVE M-1 ADJESIVE INSTALLED BETWEEN RINGS.

2017

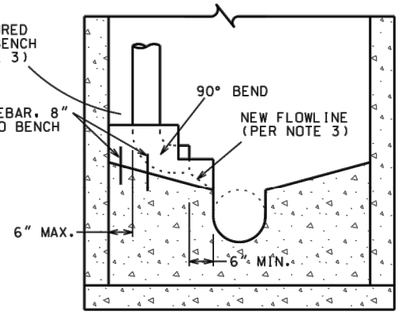
CITY OF MADISON
ENGINEERING DIVISION

SAS INTERNAL
CHIMNEY SEAL

STANDARD DETAIL DRAWING 5.7.17



TOP VIEW



SIDE VIEW

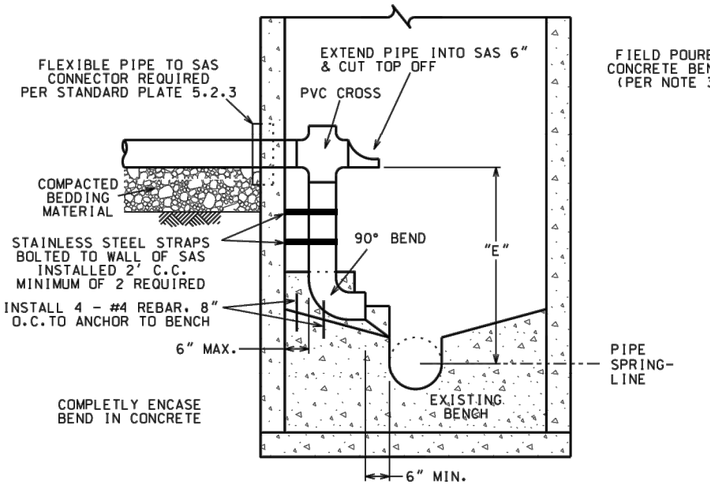
FIELD POURED CONCRETE BENCH

NOTES:

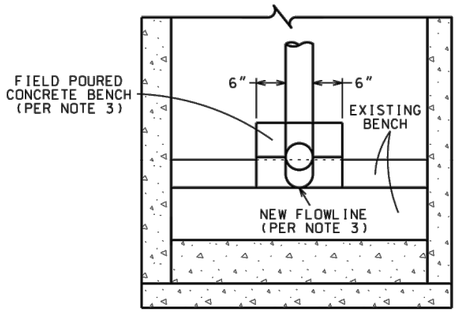
1) INSIDE DROP INLETS SHALL BE USED ONLY WHERE SITE CONDITIONS MAKE AN OUTSIDE DROP CONNECTION INFEASIBLE TO CONSTRUCT. THIS DETERMINATION SHALL BE MADE BY THE ENGINEER IN THE FIELD. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR INSTALLATION OF THE INSIDE DROP INLET FROM THE ENGINEER PRIOR TO CONSTRUCTION.

2) DROP INLET SHALL BE BUILT WHEN "E" IS GREATER THEN 24". "E" SHALL BE MEASURED FROM THE INVERT OF THE INCOMING PIPE TO THE SPRINGLINE OF THE OUTGOING SEWER.

3) ENCASE INLET PIPE IN CONCRETE FROM THE EXISTING BENCH TO FIRST JOINT ABOVE THE 90° BEND. FORM NEW SMOOTH FLOWLINE FROM PIPE END TO MAIN CHANNEL. ROUGH BRUSH FINISH ALL OTHER SURFACES OF THE NEW CONCRETE ENCASEMENT.



SECTION A-A



SECTION B-B

DRAWING NOT TO SCALE

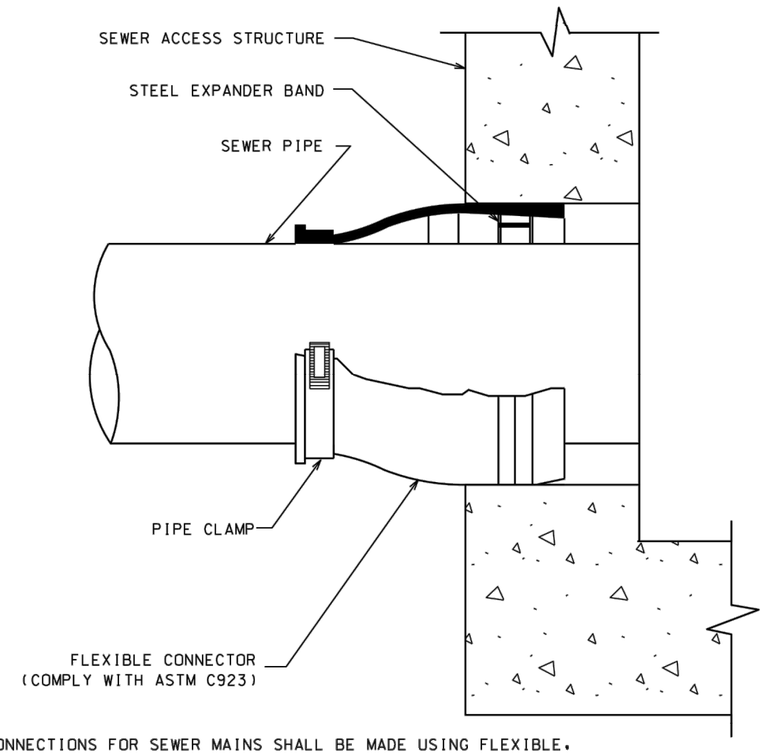
5.7.30

2018

CITY OF MADISON
ENGINEERING DIVISION

INSIDE DROP FOR SANITARY MAIN & LATERAL

STANDARD DETAIL DRAWING 5.7.30



NOTES:

1. S.A.S. CONNECTIONS FOR SEWER MAINS SHALL BE MADE USING FLEXIBLE, WATERTIGHT CONNECTIONS SUCH AS KOR-N-SEAL I OR APPROVED EQUAL, UNLESS DIRECTED OTHERWISE BY ENGINEER.

2. ALL STAINLESS STEEL ELEMENTS OF CONNECTOR SHALL BE TOTALLY NON-MAGNETIC SERIES 304 STAINLESS, EXCLUDING THE WORM SCREW FOR TIGHTENING THE STEEL BAND AROUND THE PIPE WHICH SHALL BE SERIES 305 STAINLESS. THE WORM SCREW FOR TIGHTENING THE STEEL BAND SHALL BE TORQUED BY A BREAK-AWAY TORQUE WRENCH AVAILABLE FOR THE PRECAST S.A.S SUPPLIER AND SET FOR 60 - 70 INCH/LBS.

3. THE CONNECTOR SHALL BE INSTALLED IN THE S.A.S. WALL BY ACTIVATING THE EXPANDING MECHANISM IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE CONNECTOR MANUFACTURER.

4. THE CONNECTOR SHALL BE OF A SIZE SPECIFICALLY DESIGNED FOR THE PIPE MATERIAL AND SIZE BEING UTILIZED ON THE PROJECT.

5. ALL COSTS SHALL BE CONSIDERED INCIDENTAL TO THE S.A.S. AND/OR PIPE. THE ENGINEER RESERVES THE RIGHT TO REQUIRE A "CONCRETE ENCASEMENT" CONNECTION AT NO ADDITIONAL EXPENSE IN THE EVENT OF DESIGN CHANGE.

6. FLEXIBLE, WATERTIGHT CONNECTIONS SHALL ALSO BE USED AS REQUIRED FOR STORM SEWER CONNECTIONS.

2016

CITY OF MADISON
ENGINEERING DIVISION

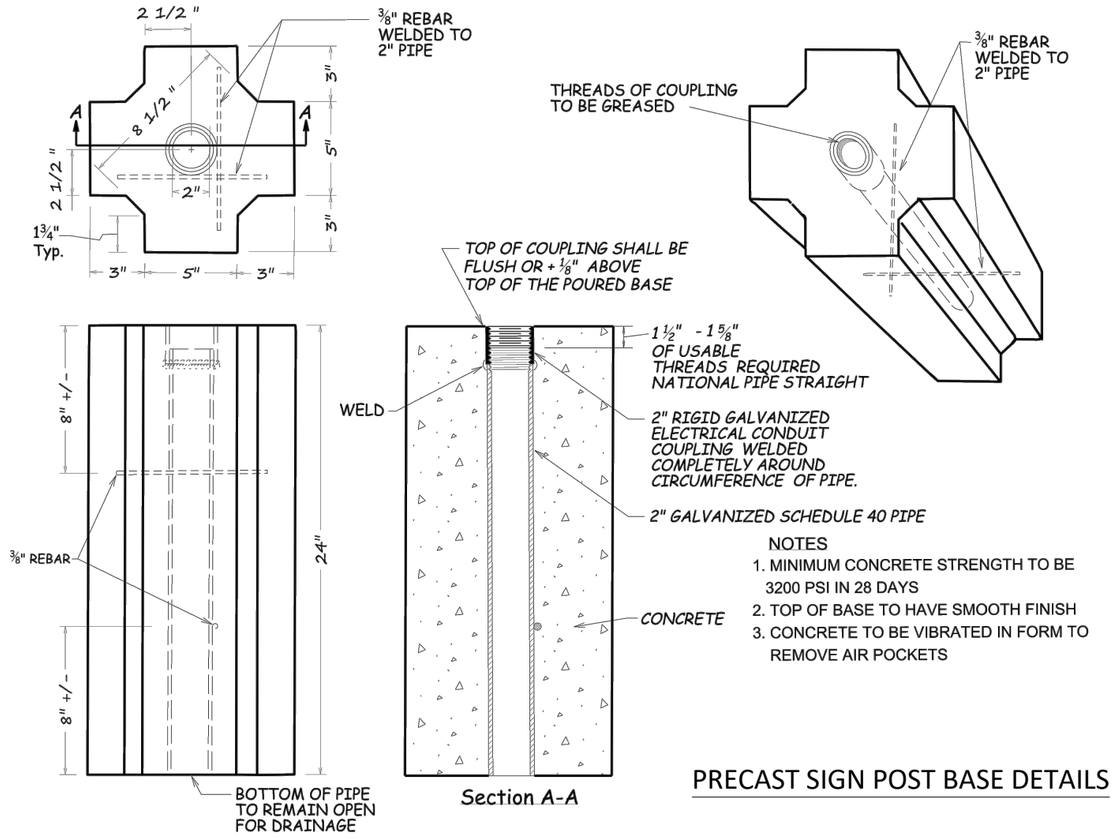
FLEXIBLE PIPE TO S.A.S. CONNECTOR

STANDARD DETAIL DRAWING 5.7.31

5.7.31

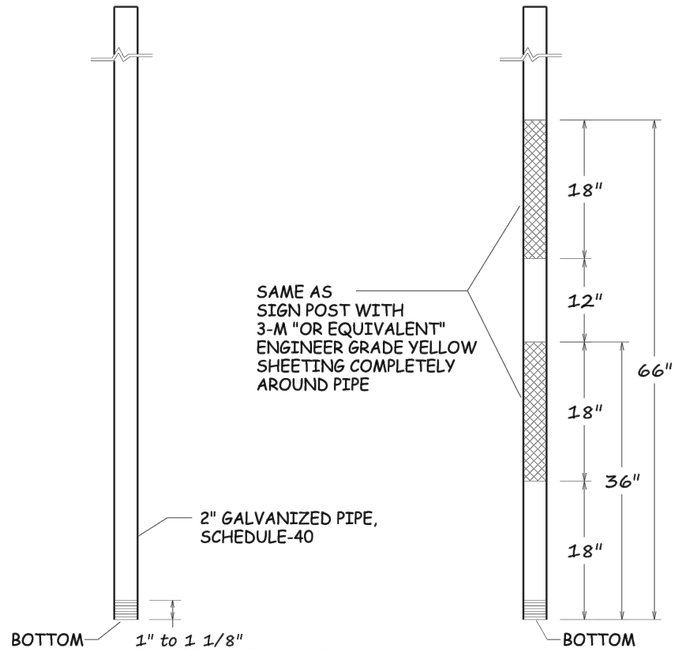
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 69	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021001-CD (CONSTRUCTION DETAILS).DWG PLOT DATE : 1/28/2022 2:31 PM PLOT BY : SEH LAYOUT NAME : 18 PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



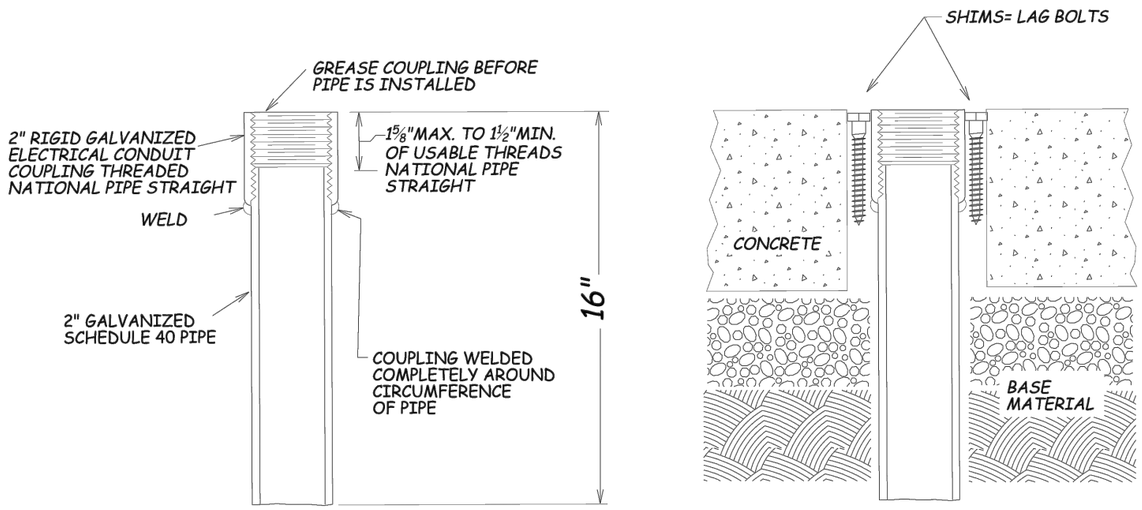
NOTES
1. MINIMUM CONCRETE STRENGTH TO BE 3200 PSI IN 28 DAYS
2. TOP OF BASE TO HAVE SMOOTH FINISH
3. CONCRETE TO BE VIBRATED IN FORM TO REMOVE AIR POCKETS

PRECAST SIGN POST BASE DETAILS



SIGN POST

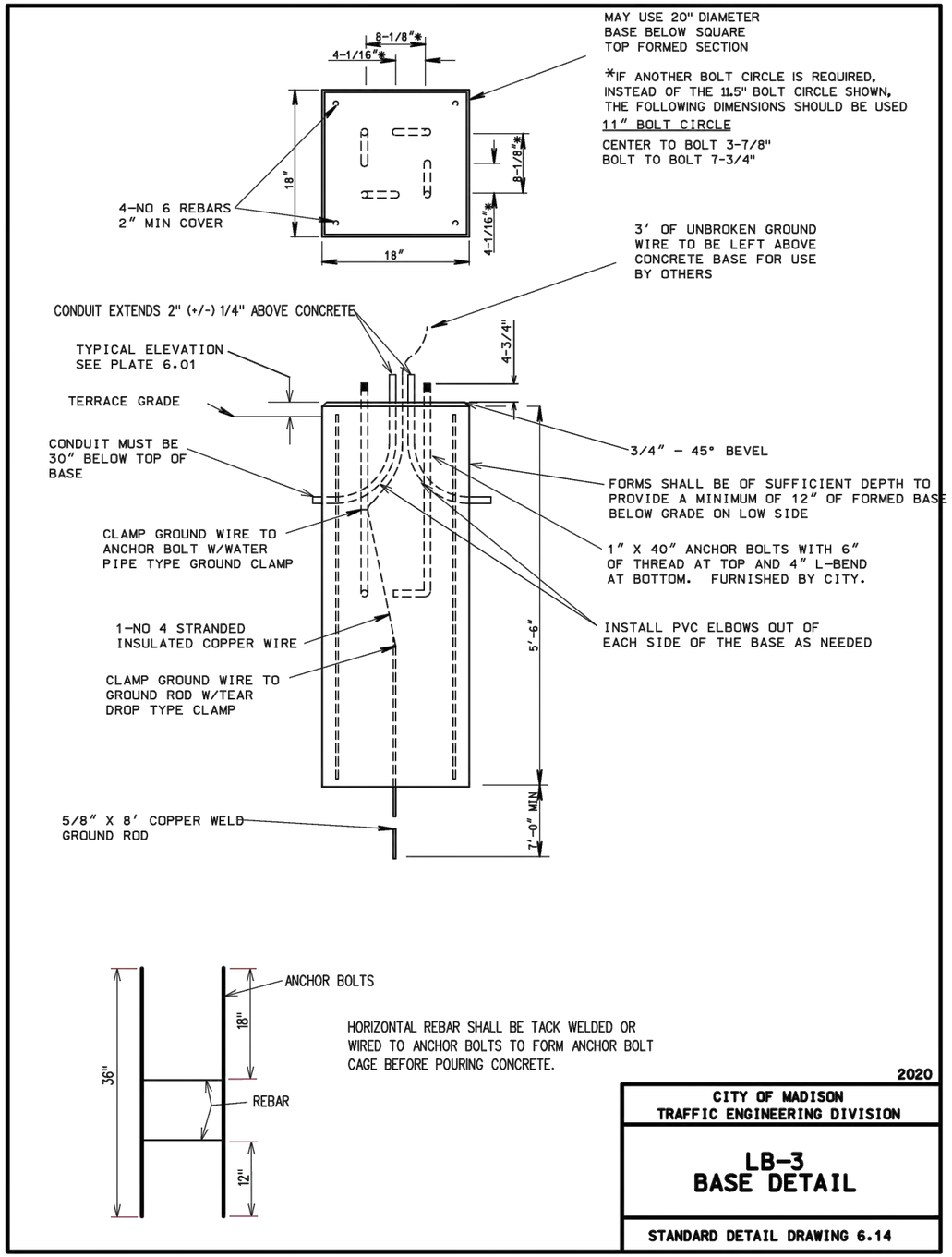
REFLECTIVE SIGN POST
(TRUCK ROUTE STREETS ONLY)



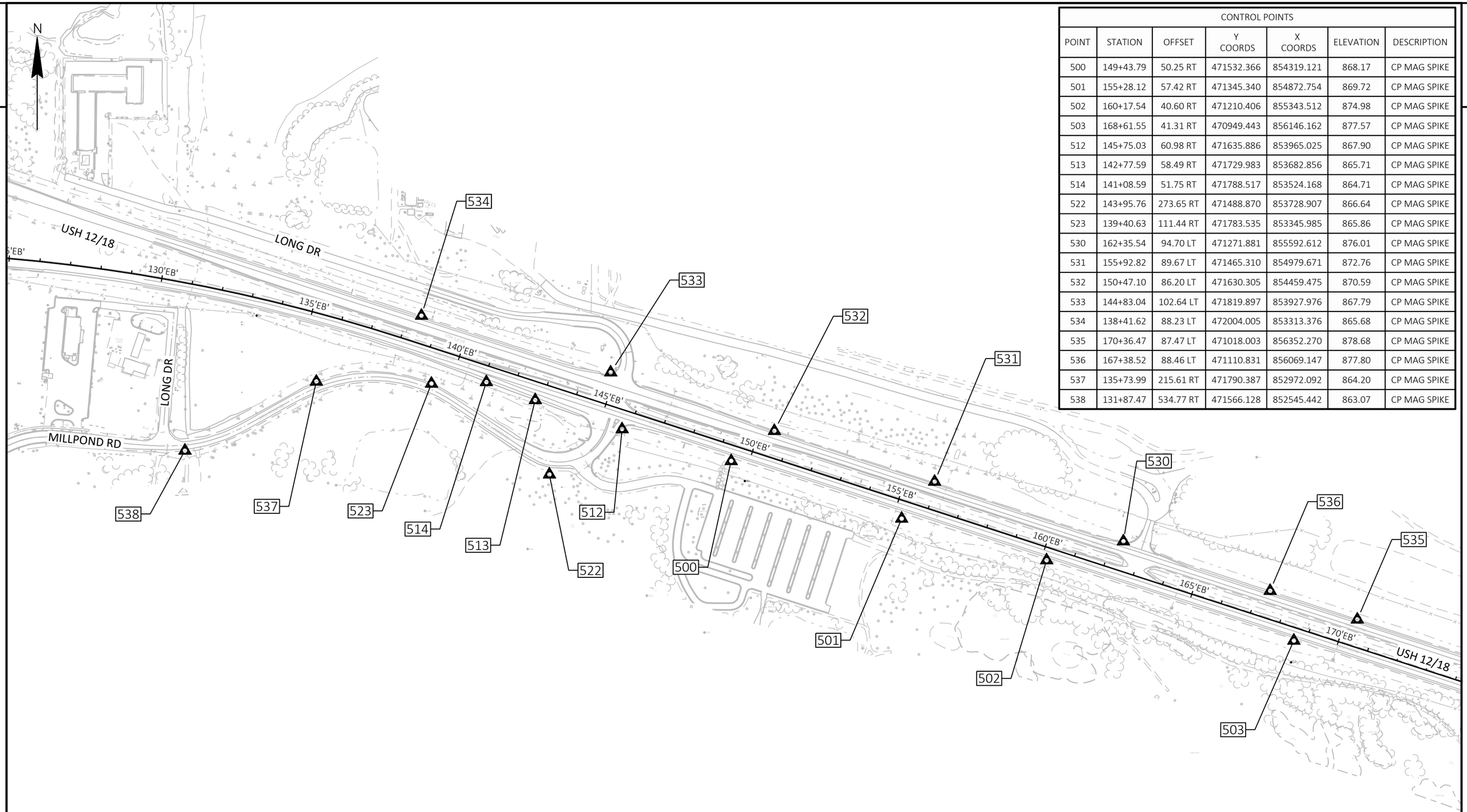
SIGN POST PIPE INSERT IN CONCRETE INSTALLATION:
Drill or core drill 3 1/8" hole all the way through the concrete to the base material. Temporarily hand-tighten a threaded pipe about 4 feet long into the insert (see Insert detail). Drive the insert into the base material at a level/plumb position until the insert is flush with the top of the concrete. Shim insert to a level/plumb position using various sizes of lag bolts. Remove temporary pipe, install permanent pipe. Use large pipe wrench to tighten until insert turns, then reset shims/or add shims until pipe no longer turns. Re-tighten pipe, recheck level/plumb/top of concrete with insert.
Mix up a batch of waterproof anchoring cement for concrete that has a compressive strength of 8000psi at 28 days. The anchoring cement should be mixed up to a liquid consistency, not a paste. Pour the anchoring cement between the concrete and outside of the pipe, until flush with the top of the insert. Quickly recheck insert for level/plumb/top of concrete since the anchoring cement is fast-setting. May need to add more anchoring cement as it settles. Installation needs to be level/plumb, solid and strong when completed.

SIGN POST PIPE INSERT IN CONCRETE

2

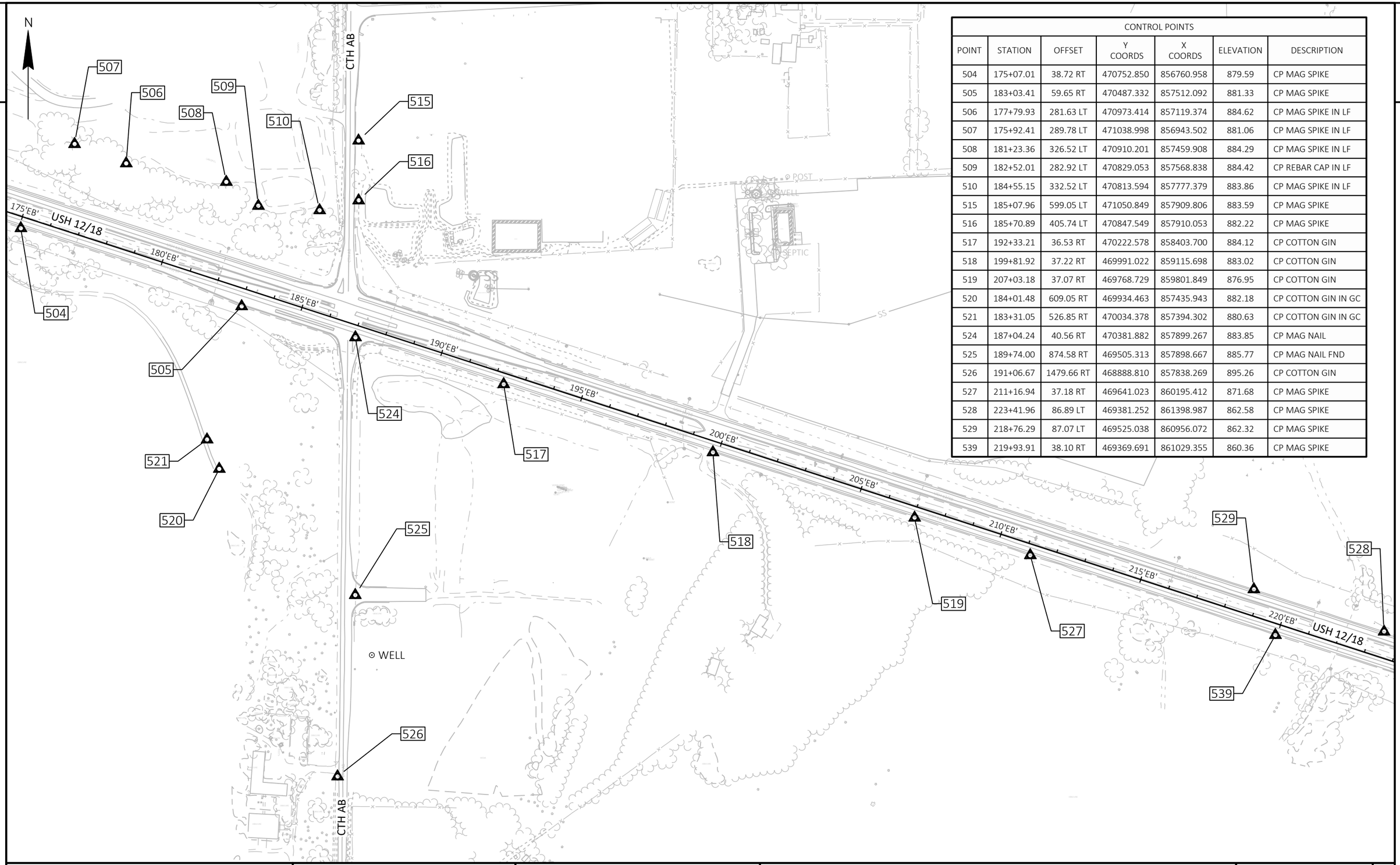

8-1/8"*
4-1/16"*
MAY USE 20" DIAMETER BASE BELOW SQUARE TOP FORMED SECTION
*IF ANOTHER BOLT CIRCLE IS REQUIRED, INSTEAD OF THE 11.5" BOLT CIRCLE SHOWN, THE FOLLOWING DIMENSIONS SHOULD BE USED
11" BOLT CIRCLE
CENTER TO BOLT 3-7/8"
BOLT TO BOLT 7-3/4"
4-NO 6 REBARS 2" MIN COVER
18"
8-1/8"*
4-1/16"*
18"
3' OF UNBROKEN GROUND WIRE TO BE LEFT ABOVE CONCRETE BASE FOR USE BY OTHERS
CONDUIT EXTENDS 2" (+/-) 1/4" ABOVE CONCRETE
TYPICAL ELEVATION SEE PLATE 6.01
TERRACE GRADE
4-3/4"
3/4" - 45° BEVEL
CONDUIT MUST BE 30" BELOW TOP OF BASE
FORMS SHALL BE OF SUFFICIENT DEPTH TO PROVIDE A MINIMUM OF 12" OF FORMED BASE BELOW GRADE ON LOW SIDE
CLAMP GROUND WIRE TO ANCHOR BOLT W/WATER PIPE TYPE GROUND CLAMP
1" X 40" ANCHOR BOLTS WITH 6" OF THREAD AT TOP AND 4" L-BEND AT BOTTOM. FURNISHED BY CITY.
1-NO 4 STRANDED INSULATED COPPER WIRE
INSTALL PVC ELBOWS OUT OF EACH SIDE OF THE BASE AS NEEDED
5'-6"
CLAMP GROUND WIRE TO GROUND ROD W/TEAR DROP TYPE CLAMP
5/8" X 8' COPPER WELD GROUND ROD
7'-0" MIN
ANCHOR BOLTS
18"
36"
REBAR
12"
HORIZONTAL REBAR SHALL BE TACK WELDED OR WIRED TO ANCHOR BOLTS TO FORM ANCHOR BOLT CAGE BEFORE POURING CONCRETE.
2020
CITY OF MADISON
TRAFFIC ENGINEERING DIVISION
LB-3
BASE DETAIL
STANDARD DETAIL DRAWING 6.14

6.14



CONTROL POINTS

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
500	149+43.79	50.25 RT	471532.366	854319.121	868.17	CP MAG SPIKE
501	155+28.12	57.42 RT	471345.340	854872.754	869.72	CP MAG SPIKE
502	160+17.54	40.60 RT	471210.406	855343.512	874.98	CP MAG SPIKE
503	168+61.55	41.31 RT	470949.443	856146.162	877.57	CP MAG SPIKE
512	145+75.03	60.98 RT	471635.886	853965.025	867.90	CP MAG SPIKE
513	142+77.59	58.49 RT	471729.983	853682.856	865.71	CP MAG SPIKE
514	141+08.59	51.75 RT	471788.517	853524.168	864.71	CP MAG SPIKE
522	143+95.76	273.65 RT	471488.870	853728.907	866.64	CP MAG SPIKE
523	139+40.63	111.44 RT	471783.535	853345.985	865.86	CP MAG SPIKE
530	162+35.54	94.70 LT	471271.881	855592.612	876.01	CP MAG SPIKE
531	155+92.82	89.67 LT	471465.310	854979.671	872.76	CP MAG SPIKE
532	150+47.10	86.20 LT	471630.305	854459.475	870.59	CP MAG SPIKE
533	144+83.04	102.64 LT	471819.897	853927.976	867.79	CP MAG SPIKE
534	138+41.62	88.23 LT	472004.005	853313.376	865.68	CP MAG SPIKE
535	170+36.47	87.47 LT	471018.003	856352.270	878.68	CP MAG SPIKE
536	167+38.52	88.46 LT	471110.831	856069.147	877.80	CP MAG SPIKE
537	135+73.99	215.61 RT	471790.387	852972.092	864.20	CP MAG SPIKE
538	131+87.47	534.77 RT	471566.128	852545.442	863.07	CP MAG SPIKE



CONTROL POINTS						
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION	DESCRIPTION
504	175+07.01	38.72 RT	470752.850	856760.958	879.59	CP MAG SPIKE
505	183+03.41	59.65 RT	470487.332	857512.092	881.33	CP MAG SPIKE
506	177+79.93	281.63 LT	470973.414	857119.374	884.62	CP MAG SPIKE IN LF
507	175+92.41	289.78 LT	471038.998	856943.502	881.06	CP MAG SPIKE IN LF
508	181+23.36	326.52 LT	470910.201	857459.908	884.29	CP MAG SPIKE IN LF
509	182+52.01	282.92 LT	470829.053	857568.838	884.42	CP REBAR CAP IN LF
510	184+55.15	332.52 LT	470813.594	857777.379	883.86	CP MAG SPIKE IN LF
515	185+07.96	599.05 LT	471050.849	857909.806	883.59	CP MAG SPIKE
516	185+70.89	405.74 LT	470847.549	857910.053	882.22	CP MAG SPIKE
517	192+33.21	36.53 RT	470222.578	858403.700	884.12	CP COTTON GIN
518	199+81.92	37.22 RT	469991.022	859115.698	883.02	CP COTTON GIN
519	207+03.18	37.07 RT	469768.729	859801.849	876.95	CP COTTON GIN
520	184+01.48	609.05 RT	469934.463	857435.943	882.18	CP COTTON GIN IN GC
521	183+31.05	526.85 RT	470034.378	857394.302	880.63	CP COTTON GIN IN GC
524	187+04.24	40.56 RT	470381.882	857899.267	883.85	CP MAG NAIL
525	189+74.00	874.58 RT	469505.313	857898.667	885.77	CP MAG NAIL FND
526	191+06.67	1479.66 RT	468888.810	857838.269	895.26	CP COTTON GIN
527	211+16.94	37.18 RT	469641.023	860195.412	871.68	CP MAG SPIKE
528	223+41.96	86.89 LT	469381.252	861398.987	862.58	CP MAG SPIKE
529	218+76.29	87.07 LT	469525.038	860956.072	862.32	CP MAG SPIKE
539	219+93.91	38.10 RT	469369.691	861029.355	860.36	CP MAG SPIKE

2

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONTROL POINTS	SHEET 73	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021051_CP.DWG
LAYOUT NAME - 02
PLOT DATE : 9/1/2021 11:47 AM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:300 FT
WISDOT/CADDS SHEET 42

2

2

N

USH 12/18 WB

WB TO NB EXIT RAMP

MG&E - GAS

EB TO NB EXIT RAMP

RIPRAP

DELINEATED WETLANDS (TYP)

WISDOT - FIBER

REMOVAL PLAN LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING INLETS/MANHOLES
- REMOVING SMALL PIPE CULVERTS OR REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING CURB & GUTTER
- REMOVING DELINEATORS AND MARKERS

115'EB' 116'EB' 118'EB' 120'EB' 122'EB' 124

124+00'EB'

USH 12/18 EB

NB TO EB ENTRANCE RAMP

SLOPE INTERCEPT (TYP)

TLE (TYP)

PROPOSED R/W (TYP)

EXISTING R/W (TYP)

SCHULEBURG & DAUGHTER ENTERPRISES II LLC

COMMERCIAL PROPERTIES ASSOCIATES LLP

LEANNE H STARR SRVRS TR

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	REMOVAL PLAN	SHEET 74	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021100-RM (REMOVAL PLAN).DWG PLOT DATE : 3/10/2022 7:22 AM PLOT BY : SEH LAYOUT NAME : 01 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

MG&E - GAS

WISDOT ITS - FIBER

USH 12/18 WB

MG&E - GAS

MG&E - GAS

ABANDONED SEWER

WISDOT ITS - FIBER

N

138'EB'

136'EB'

134'EB'

132'EB'

130'EB'

128'EB'

126'EB'

124+00'EB'

139+00'EB'

DELINEATED WETLANDS (TYP)

USH 12/18 EB

MG&E - ELEC

92'XMP'

90'XMP'

MG&E - GAS

MADISON WATER - WATER

AT&T WI - TEL

AT&T - FIBER

MG&E - ELEC
CHARTER - TEL
(ON MG&E POLES)

FHR - GAS

SLOPE INTERCEPT (TYP)

EXISTING R/W (TYP)

CITY OF MADISON
PARKS YAHARA
HILLS GOLF COURSE

WISCONSIN WINNEBAGO TRIBE

LONG RD

STATE OF WI
WISDOT

LEANNE H STARR SRVRS TR

F&B PROPERTIES LLC

CITY OF MADISON
ENGINEERING - SEWER

88'XMP'

MILLPOND RD

MG&E - GAS

MADISON WATER-WATER

86'XMP'

MILLPOND RD

MADISON WATER-WATER

MG&E - ELEC
CHARTER - TEL
AT&T WI - FIBER
AT&T WI - TEL
(ON MG&E POLES)

CITY OF MADISON
PARKS/YAHARA HILLS GOLF COURSE

84'XMP'

MADISON WATER -
WATER

MMSD - SEWER

MADISON WATER -
WATER

82'XMP'

CHARTER - TEL

80'XMP'

TLE (TYP)

FHR - GAS

EXISTING R/W (TYP)

MMSD - SEWER

REMOVING
CONCRETE
SIDEWALK

78'XMP'

TLE (TYP)

MILLPOND RD

AT&T WI - TEL

AT&T WI - FIBER

MG&E - GAS

CITY OF MADISON - LIGHTING

REMOVAL PLAN LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING INLETS/MANHOLES
- REMOVING SMALL PIPE CULVERTS OR REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING CURB & GUTTER
- REMOVING DELINEATORS AND MARKERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	REMOVAL PLAN	SHEET 75	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021100-RM (REMOVAL PLAN).DWG PLOT DATE : 5/25/2022 12:46 PM PLOT BY : SEH LAYOUT NAME : 02 PLOT SCALE : 1.0 IN = 100.0 FT

2

DANE COUNTY PUBLIC
WORKS RODEFELD LANDFILL

MG&E ELEC
MUFN - FIBER
FHR - GAS

LANDFILL DR

TLE (TYP)
PROPOSED R/W (TYP)

US 12 & 18 SERVICE RD

ANR PIPELINE - GAS
HIGH PRESSURE 10"
ANR PIPELINE - GAS
HIGH PRESSURE 6"

MUFN - FIBER
EXISTING R/W (TYP)

MG&E ELEC
FHR - GAS
WISDOT ITS - FIBER

ABANDON PIPE
UNDER WB ROADWAY
ABANDONED SEWER
WISDOT ITS - FIBER

REMOVING LIGHT BASE

USH 12/18 WB

CITY OF MADISON - LIGHTING

140'EB' 142'EB' 144'EB' 146'EB' 148'EB' 150'EB' 152'EB' 154

139+00'EB'

USH 12/18 EB

154+00'EB'

CITY OF MADISON - LIGHTING
REMOVING CONCRETE SIDEWALK
FHR - GAS
MG&E - GAS
MG&E - ELEC
MG&E - GAS
MG&E - ELEC
FRONTIER - TEL
REMOVE EXISTING BUSINESS SIGN
MG&E - GAS
MG&E - GAS
MG&E - ELEC
MG&E - ELEC
REMOVING LIGHT BASE
REMOVE EXISTING BUSINESS SIGN
MUFN - FIBER
MG&E - ELEC
MILLPOND RD
MADISON WATER - WATER
EXISTING R/W (TYP)
PROPOSED R/W (TYP)
CITY OF MADISON PARKS
YAHARA HILLS GOLF COURSE
ANR PIPELINE - GAS
HIGH PRESSURE 10"
ANR PIPELINE - GAS
HIGH PRESSURE 6"
MADISON WATER - WATER
CITY OF MADISON PARKS
YAHARA HILLS GOLF COURSE
TLE (TYP)

REMOVAL PLAN LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING INLETS/MANHOLES
- REMOVING SMALL PIPE CULVERTS OR REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING CURB & GUTTER
- REMOVING DELINEATORS AND MARKERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	REMOVAL PLAN	SHEET 76	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021100-RM (REMOVAL PLAN).DWG
PLOT DATE : 3/10/2022 7:22 AM
PLOT BY : SEH
LAYOUT NAME : 03
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

2

N

MG&E ELEC

MUFN - FIBER

DANE COUNTY PUBLIC
WORKS RODEFELD LANDFILL

LANDFILL DR

DANE COUNTY PUBLIC
WORKS RODEFELD LANDFILL

CITY OF MADISON STREETS
YAHARA WOOD PROCESS SITE

TLE (TYP)

SLOPE INTERCEPT (TYP)

PROPOSED R/W (TYP)

EXISTING R/W (TYP)

REMOVING GATE
(WORK BY OTHERS)

EXISTING SIGN

WISDOT ITS - FIBER

EXISTING SOLAR
PEDESTAL

WISDOT ITS - FIBER

MG&E - GAS

USH 12/18 WB

USH 12/18 EB

154+00'EB'

156'EB'

158'EB'

160'EB'

162'EB'

164'EB'

166'EB'

168'EB'

169+00'EB'

ABANDON PIPE
UNDER EB ROADWAY

MG&E - ELEC

MG&E - GAS

MG&E - GAS

FRONTIER - TEL

MG&E - GAS

CITY OF MADISON PARKS
YAHARA HILLS GOLF COURSE

EXISTING R/W (TYP)

PROPOSED R/W (TYP)

SLOPE INTERCEPT (TYP)

CITY OF MADISON PARKS
YAHARA HILLS GOLF COURSE

TLE (TYP)

YAHARA HILLS GOLF COURSE
STORM SEWER

YAHARA HILLS GOLF COURSE - WATER

REMOVAL PLAN LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING INLETS/MANHOLES
- REMOVING SMALL PIPE CULVERTS OR REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING CURB & GUTTER
- REMOVING DELINEATORS AND MARKERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	REMOVAL PLAN	SHEET 77	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021100-RM (REMOVAL PLAN).DWG PLOT DATE : 3/10/2022 7:22 AM PLOT BY : SEH LAYOUT NAME : 04 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

MUFN - FIBER

MUFN - FIBER

MUFN - FIBER

LANDFILL

DANE COUNTY PUBLIC
WORKS RODEFELD LANDFILL

TLE (TYP)

SLOPE INTERCEPT (TYP)

PROPOSED R/W (TYP)

EXISTING R/W (TYP)

WISDOT ITS - FIBER

WISDOT ITS - FIBER

CITY OF MADISON STREETS
YAHARA WOOD PROCESS SITE

DELINEATED
WETLANDS (TYP)

WISDOT ITS - FIBER

USH 12/18 WB

USH 12/18 EB

169+00'EB'

170'EB'

172'EB'

174'EB'

176'EB'

178'EB'

180'EB'

184+00'EB'

ABANDON PIPE
UNDER EB ROADWAY

FRONTIER - TEL

MG&E - GAS

FRONTIER - TEL

MG&E - GAS

EXISTING R/W (TYP)

PROPOSED R/W (TYP)

CITY OF MADISON PARKS
YAHARA HILLS GOLF COURSE

SLOPE INTERCEPT (TYP)

TLE (TYP)

YAHARA HILLS
GOLF COURSE -
WATER

CITY OF MADISON PARKS
YAHARA HILLS GOLF COURSE

REMOVAL PLAN LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING INLETS/MANHOLES
- REMOVING SMALL PIPE CULVERTS OR REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING CURB & GUTTER
- REMOVING DELINEATORS AND MARKERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	REMOVAL PLAN	SHEET 78	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021100-RM (REMOVAL PLAN).DWG PLOT DATE : 3/10/2022 7:22 AM PLOT BY : SEH LAYOUT NAME : 05 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

MATCH LINE "NORTH"

FRONTIER - FIBER
ALLIANT ENERGY - GAS
FRONTIER - TEL
SLOPE INTERCEPT (TYP)
TLE (TYP)
PROPOSED R/W (TYP)
WISDOT ITS-FIBER
ALLIANT ENERGY - ELEC
CTH AB 24'XAB'
BLDG
STORM WATER POND
COPART OF CONNECTICUT INC
POND EX-N
FRONTIER - TEL
FRONTIER - FIBER
EXISTING R/W (TYP)
ALLIANT ENERGY - GAS
MUFN - FIBER
ALLIANT ENERGY - ELEC
REMOVING CONCRETE SIDEWALK
24'XAB'
ABANDON PIPE UNDER WB ROADWAY
USH 12/18 WB
184+00'EB'
186'EB'
188'EB'
190'EB'
192'EB'
194'EB'
196'EB'
198'EB'
199+00'EB'
20'XAB'
USH 12/18 EB
FRONTIER - FIBER
ALLIANT ENERGY - ELEC
MG&E - GAS
REMOVING CONCRETE SIDEWALK
ALLIANT ENERGY - ELEC
DELINEATED WETLANDS (TYP)
ALLIANT ENERGY - ELEC
ALLIANT ENERGY - ELEC
POND EX-S
FRONTIER - TEL
18'XAB'
CTH AB
C&L INVESTMENT PARTNERSHIP
EXISTING POND
REMOVE EXISTING SEPTIC TANKS
VENT
SAN SEWER MANHOLE
VENT
VENTS
AB'
MATCH LINE 16+00'XAB'

REMOVAL PLAN LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING INLETS/MANHOLES
- REMOVING SMALL PIPE CULVERTS OR REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING CURB & GUTTER
- REMOVING DELINEATORS AND MARKERS

N

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	REMOVAL PLAN	SHEET 79	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021100-RM (REMOVAL PLAN).DWG PLOT DATE : 3/10/2022 7:22 AM PLOT BY : SEH LAYOUT NAME : 06 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

SLOPE INTERCEPT (TYP)

REMOVING ASPHALTIC SURFACE

PROPOSED R/W (TYP)

NOTE, REMOVE ASPHALTIC SURFACE
COPART PARKING LOT TO PROPOSED R/W

REMOVE CONCRETE BASE
AND LIGHTING UNIT

ALLIANT ENERGY - GAS

ALLIANT ENERGY - ELEC

COPART OF CONNECTICUT INC

NOTE, TWO FENCES

ALLIANT ENERGY - GAS

FRONTIER - FIBER

COPART OF CONNECTICUT INC

ARCHAEOLOGICAL SITE
BOUNDARY

EXISTING R/W (TYP)

SLOPE INTERCEPT (TYP)

N

199+00'EB'

200'EB'

202'EB'

204'EB'

206'EB'

208'EB'

210'EB'

212'EB'

214

214+00'EB'

FRONTIER - FIBER

ALLIANT ENERGY - ELEC

C&L INVESTMENT
PARTNERSHIP

C&L INVESTMENT
PARTNERSHIP

LARRY G SKAAR

REMOVAL PLAN LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING INLETS/MANHOLES
- REMOVING SMALL PIPE CULVERTS OR REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING CURB & GUTTER
- REMOVING DELINEATORS AND MARKERS

2

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	REMOVAL PLAN	SHEET 80	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021100-RM (REMOVAL PLAN).DWG PLOT DATE : 3/10/2022 7:22 AM PLOT BY : SEH LAYOUT NAME : 07 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

2

COPART OF CONNECTICUT INC

LAMOINE V HAEFER
ELAINE J HAEFER

N

ARCHAEOLOGICAL SITE BOUNDARY

ALLIANT ENERGY - GAS

ALLIANT ENERGY - GAS

DELINEATED WETLANDS (TYP)

214+00'EB'

'EB'

216'EB'

218'EB'

220'EB'

222'EB'

224'EB'

226'EB'

228'EB'

SLOPE INTERCEPT (TYP)

ALLIANT ENERGY - ELEC

EXISTING R/W (TYP)

ROGER A KORFMACHER
LYNN C KORFMACHER

NELSON'S BUS SERVICE INC

SIGN

FLAG

REMOVAL PLAN LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING INLETS/MANHOLES
- REMOVING SMALL PIPE CULVERTS OR REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING CURB & GUTTER
- REMOVING DELINEATORS AND MARKERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	REMOVAL PLAN	SHEET 81	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021100-RM (REMOVAL PLAN).DWG PLOT DATE : 3/10/2022 7:22 AM PLOT BY : SEH LAYOUT NAME : 08 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

2

N

OBLITERATE OLD ROAD,
STA 7+00'XAB' TO STA 11+00'XAB'

TLE (TYP)

ALLIANT ENERGY - ELEC

FRONTIER - TEL

MG&E - GAS

2'XAB' 4'XAB' 6'XAB' 8'XAB' 10'XAB' CTH AB 12'XAB' 14'XAB' 16'XAB'

MATCH LINE 16+00'XAB'

EXISTING R/W (TYP)

FRONTIER - TEL

FRONTIER - FIBER

SLOPE INTERCEPT (TYP)

DELINEATED WETLANDS (TYP)

PROPOSED R/W (TYP)

TLE (TYP)

REMOVAL PLAN LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING INLETS/MANHOLES
- REMOVING SMALL PIPE CULVERTS OR REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING CURB & GUTTER
- REMOVING DELINEATORS AND MARKERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	REMOVAL PLAN	SHEET 82	E

2

2

N

LUDS LN

EXISTING R/W (TYP)

ALLIANT ENERGY - ELEC

ALLIANT ENERGY - GAS

FRONTIER - TEL

MUFN - FIBER

DANE COUNTY WASTE & RENEWABLES

PROPOSED R/W (TYP)

SLOPE INTERCEPT (TYP)

536'LL'

534'LL'

532'LL'

530'LL'

REMOVAL PLAN LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING INLETS/MANHOLES
- REMOVING SMALL PIPE CULVERTS OR REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING CURB & GUTTER
- REMOVING DELINEATORS AND MARKERS

ALLIANT ENERGY - GAS

CTH AB

FRONTIER - FIBER

MUFN - FIBER

WISDOT ITS - FIBER

ALLIANT ENERGY - ELEC

ALLIANT ENERGY - ELEC

DANE COUNTY WASTE & RENEWABLES

TLE (TYP)

COPART OF CONNECTICUT INC

DIRT PILE

MATCH LINE "NORTH"

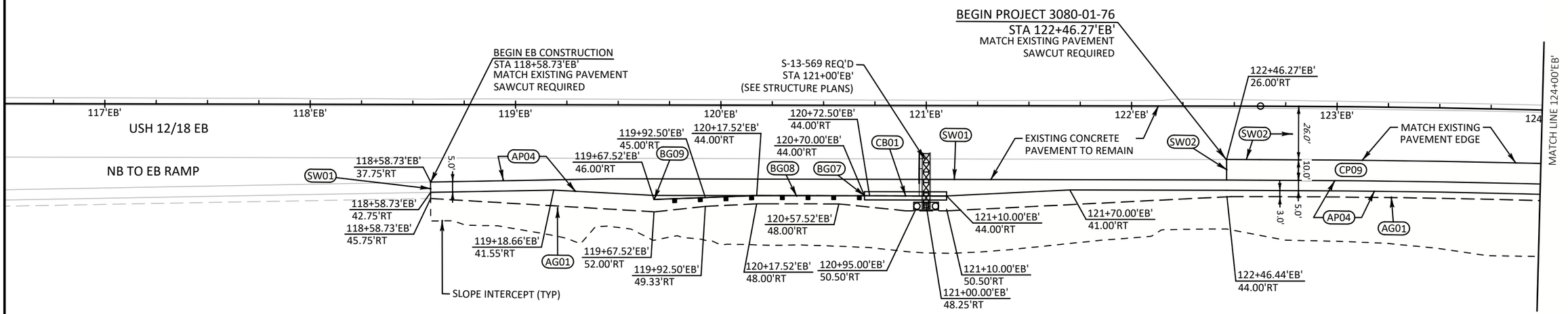
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	REMOVAL PLAN	SHEET 83	E

2

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
BG07	MGS THRIE BEAM TRANSITION
BG08	MGS GUARDRAIL 3
BG09	MGS GUARDRAIL TERMINAL EAT
CB01	CONCRETE BARRIER TYPE S42
CP09	CONCRETE PAVEMENT 9-INCH
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

N



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 84	E

2

N

USH 12/18 WB

126'WB' 127'WB' 128'WB' 129'WB' 130'WB' 131'WB'

129+94.50'WB'
34.00'LT
129+94.50'WB'
32.00'LT
129+94.50'WB'
26.00'LT

AP04 AG01 2.0' 6.0' 26.0'

EXISTING CONCRETE PAVEMENT TO REMAIN

SW02

MATCH EXISTING PAVEMENT EDGE

BEGIN WB ROAD CONSTRUCTION
STA 129+94.50'WB'
MATCH EXISTING PAVEMENT
SAWCUT REQUIRED

129+94.50'WB'
4.00'RT
129+94.50'WB'
6.00'RT

AP04 AG01 4.0' 2.0'

MATCH LINE 131+50'EB'

130+00.00'EB'
6.00'LT
130+00.00'EB'
4.00'LT

AG01 AP04 2.0' 4.0' 26.0' 10.0' 5.0' 3.0'

131'EB' 130'EB' 129'EB' 128'EB' 127'EB' 126'EB' 125'EB'

MATCH EXISTING PAVEMENT EDGE

EXISTING CONC PAVEMENT TO REMAIN

USH 12/18 EB

CP09 AP04 AG01 3.0' 5.0' 10.0' 26.0'

SW02 124+86.30'EB' 26.00'RT

MATCH LINE 124+00'EB'

SLOPE INTERCEPT (TYP)

LONG DR

CANOPY

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
CP09	CONCRETE PAVEMENT 9-INCH
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

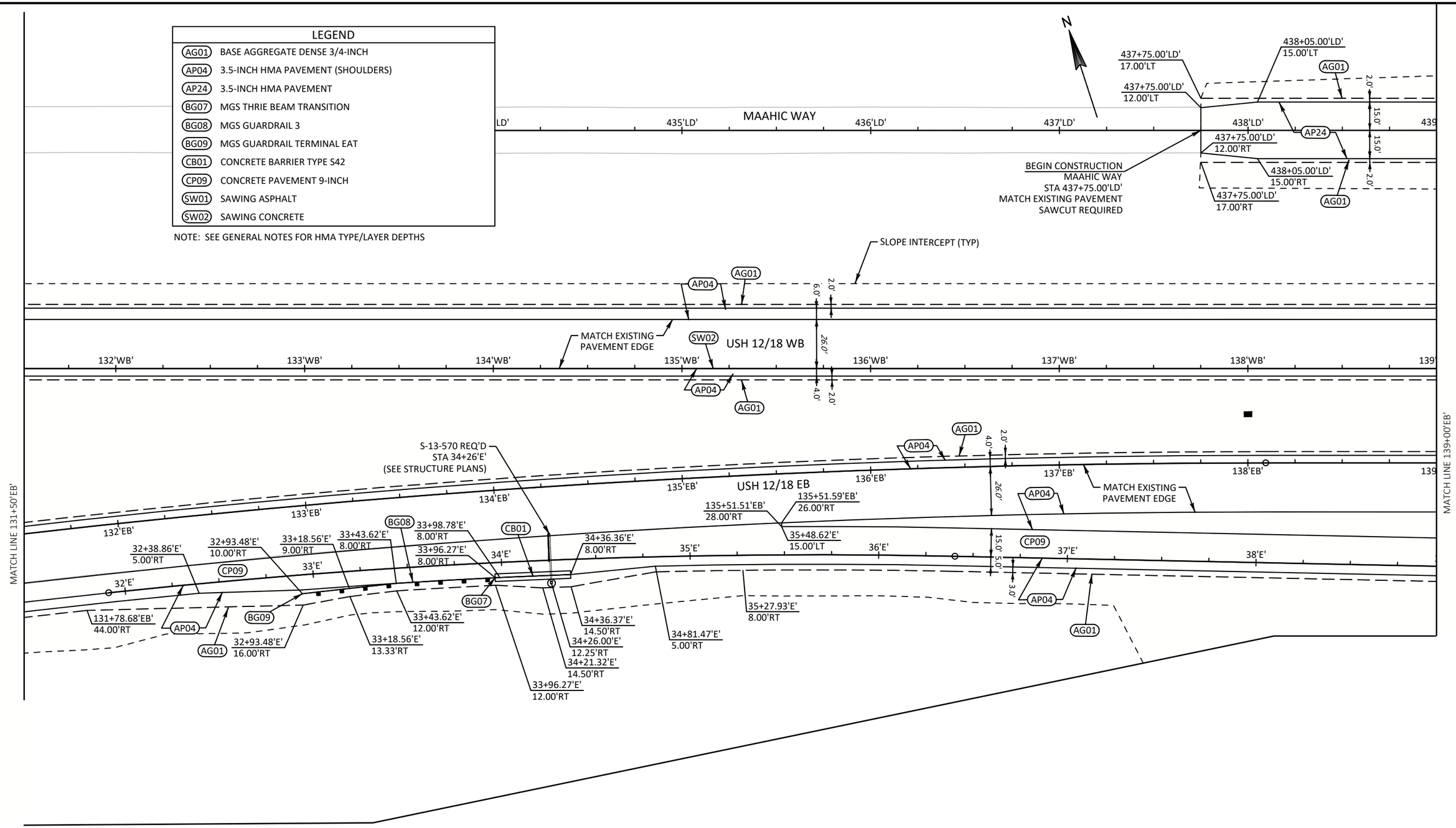
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 85	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021200-PD (PLAN DETAILS).DWG PLOT DATE : 4/29/2022 9:24 AM PLOT BY : SEH LAYOUT NAME : 02 PLOT SCALE : 1.0 IN = 50.0 FT

WISDOT/CADDS SHEET 42

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
AP24	3.5-INCH HMA PAVEMENT
BG07	MGS THRIE BEAM TRANSITION
BG08	MGS GUARDRAIL 3
BG09	MGS GUARDRAIL TERMINAL EAT
CB01	CONCRETE BARRIER TYPE S42
CP09	CONCRETE PAVEMENT 9-INCH
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

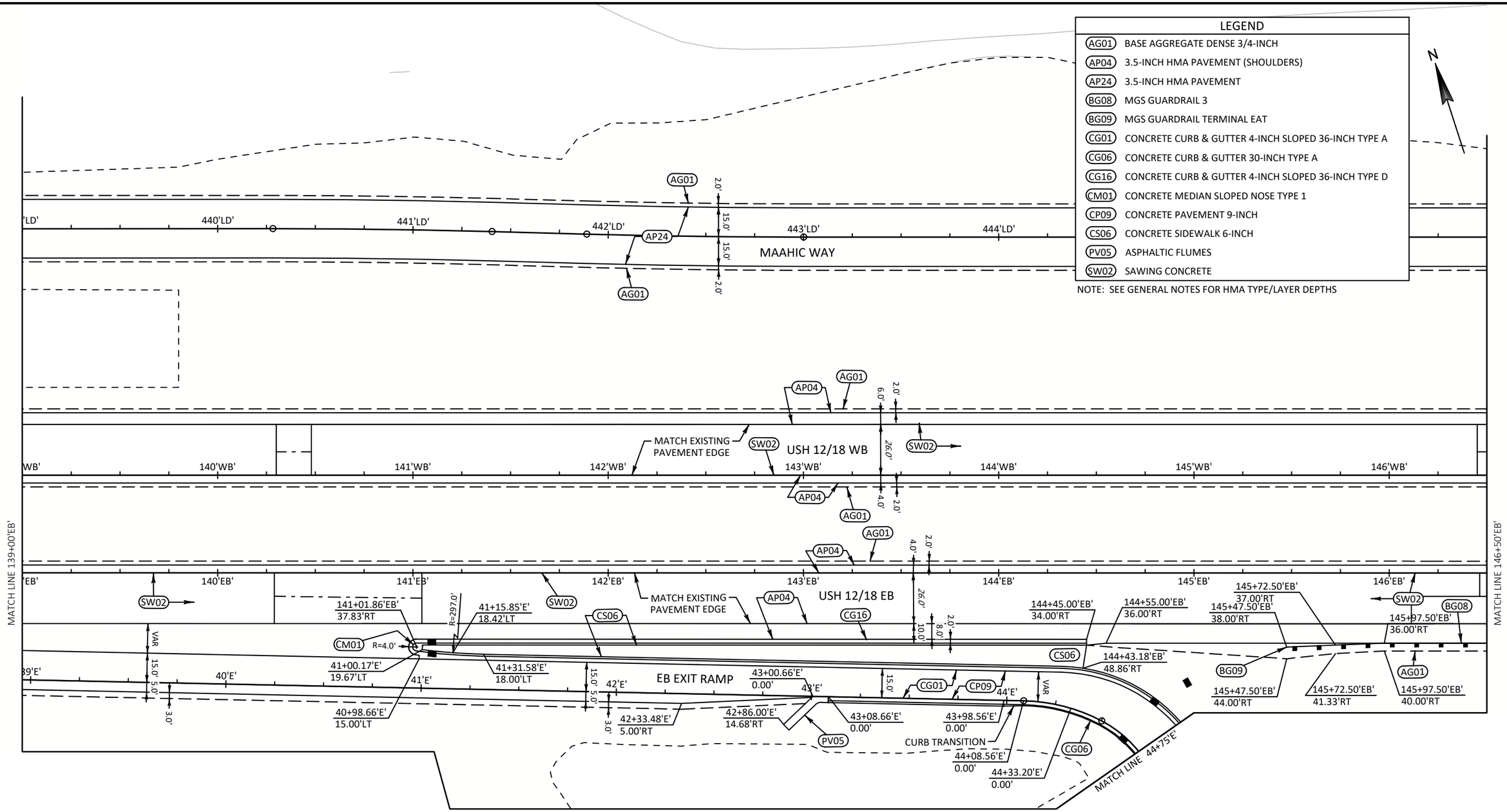


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 86	E

2

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
AP24	3.5-INCH HMA PAVEMENT
BG08	MGS GUARDRAIL 3
BG09	MGS GUARDRAIL TERMINAL EAT
CG01	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
CG06	CONCRETE CURB & GUTTER 30-INCH TYPE A
CG16	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP09	CONCRETE PAVEMENT 9-INCH
CS06	CONCRETE SIDEWALK 6-INCH
PV05	ASPHALTIC FLUMES
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

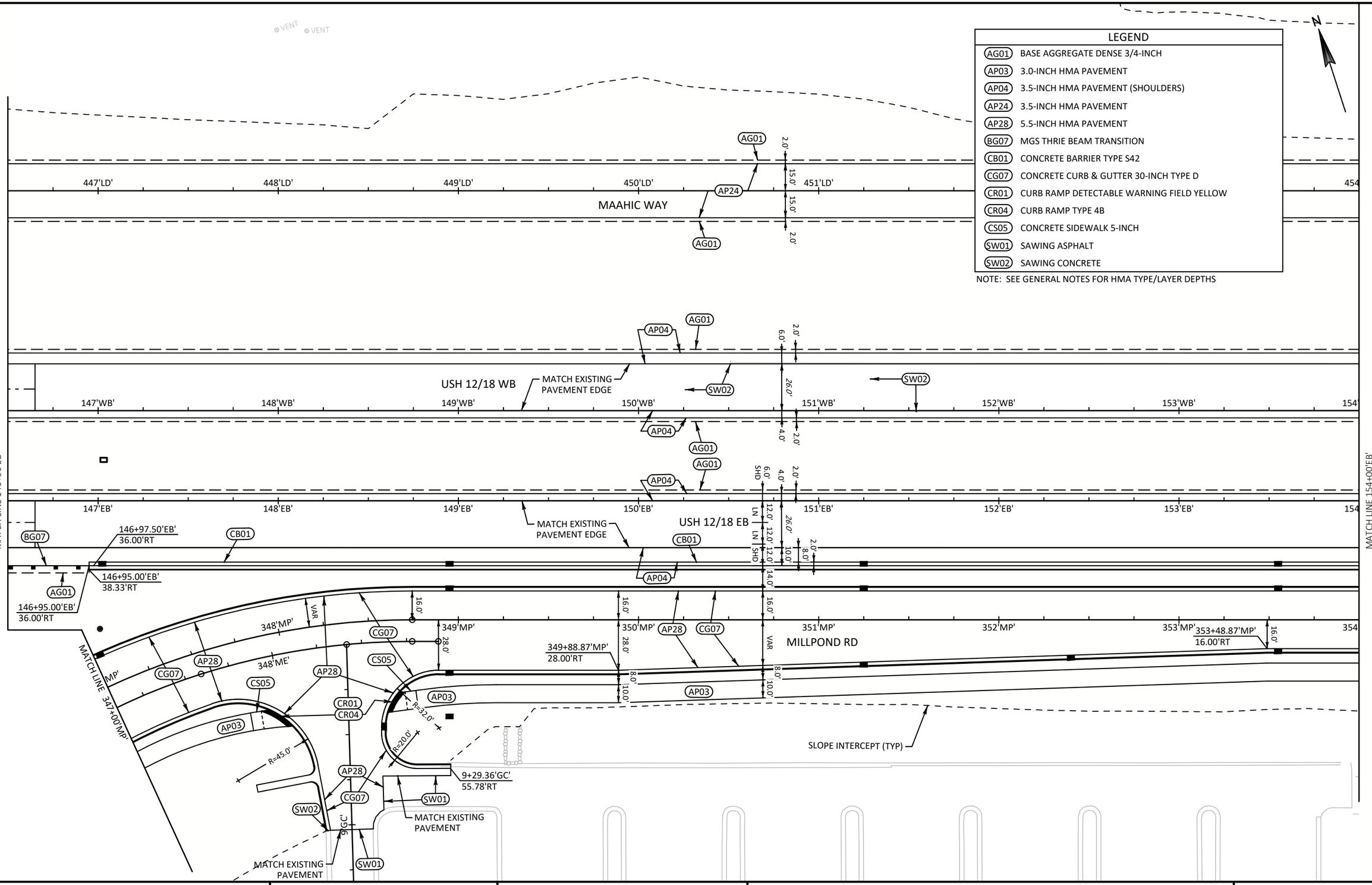


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 87	E

2

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP03	3.0-INCH HMA PAVEMENT
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
AP24	3.5-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
BG07	MGS THRIE BEAM TRANSITION
CB01	CONCRETE BARRIER TYPE S42
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CR01	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CR04	CURB RAMP TYPE 4B
CS05	CONCRETE SIDEWALK 5-INCH
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

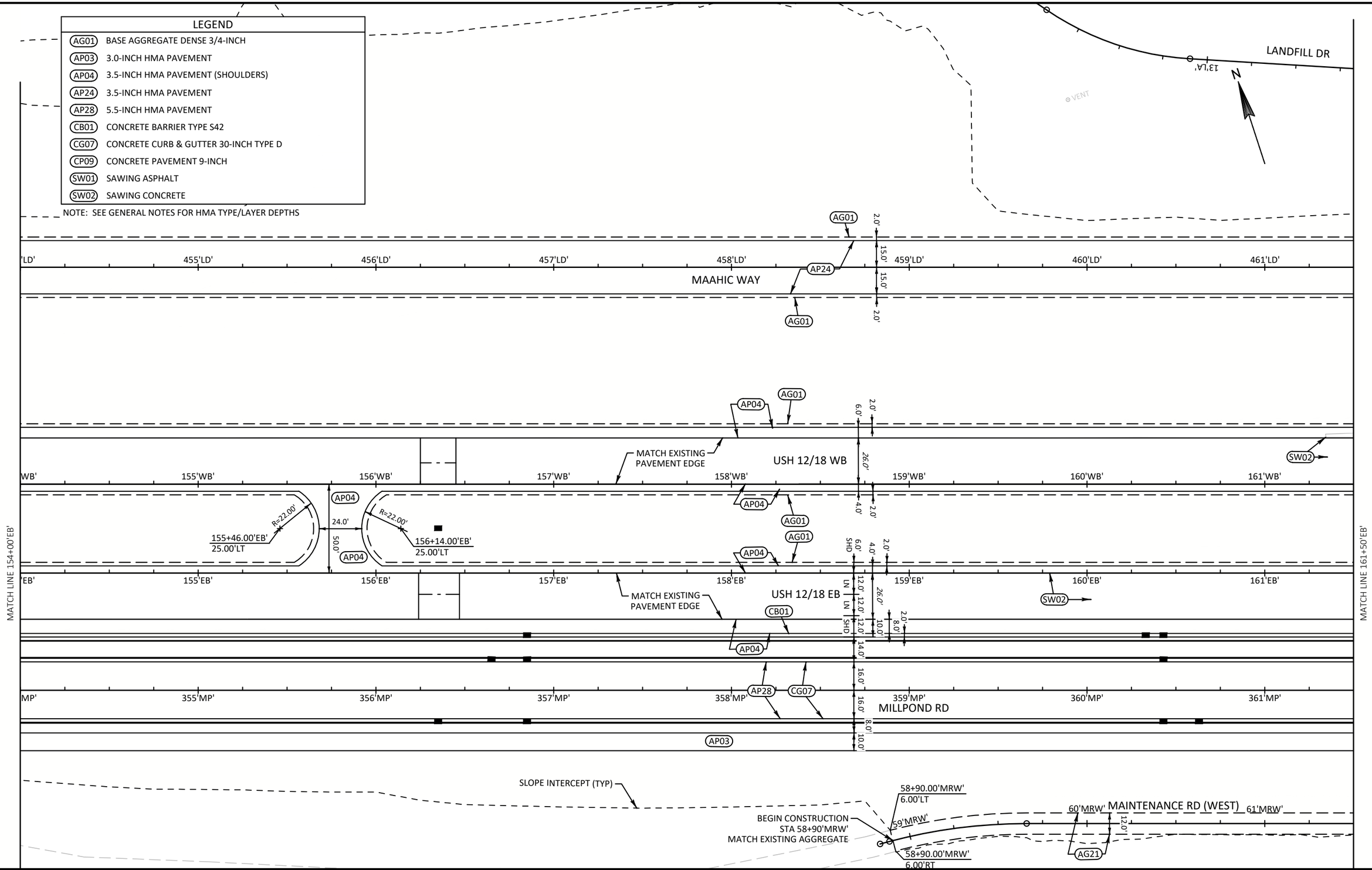


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 88	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021200-PD (PLAN DETAILS).DWG
PLOT DATE : 4/29/2022 9:26 AM
PLOT BY : SEH
LAYOUT NAME : 05
PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP03	3.0-INCH HMA PAVEMENT
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
AP24	3.5-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CB01	CONCRETE BARRIER TYPE S42
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CP09	CONCRETE PAVEMENT 9-INCH
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 89	E

2

LANDFILL DR

END CONSTRUCTION
STA 19+80'LA'

10+80.00'LA'
15.00'RT

10+74.47'LA'
20.00'RT

10+70.50'LA'
24.60'RT

PAVEMENT
SWALE LINE

10+44.36'LA'
51.00'RT

10+80.00'LA'
15.00'LT

R=5.0'

12'LA'

12'LA'

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP03	3.0-INCH HMA PAVEMENT
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
AP24	3.5-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CB01	CONCRETE BARRIER TYPE S42
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

N

MAAHIC WAY

462'LD' 463'LD' 464'LD' 465'LD' 466'LD' 467'LD' 468'LD' 469

462+55.00'LD'
0.00'

STA 463+00.35'LD'
STA 10+00.00'LA'

463+61.76'LD'
20.13'LT

464+38.75'LD'
15.00'LT

AG01 AP24 AP28 CG07 AP04 AP03 CB01 SW01 SW02

2.0' 15.0' 15.0' 2.0'

MAAHIC WAY

USH 12/18 WB

162'WB' 163'WB' 164'WB' 165'WB' 166'WB' 167'WB' 168'WB' 169

MATCH EXISTING
PAVEMENT EDGE

6.0' 4.0' 2.0' 26.0'

USH 12/18 EB

162'EB' 163'EB' 164'EB' 165'EB' 166'EB' 167'EB' 168'EB' 169

SHD LN LN SHD

12.0' 12.0' 12.0' 10.0' 8.0' 2.0' 14.0' 16.0' 16.0' 8.0' 10.0'

MATCH LINE 161+50'EB'

MATCH LINE 169+00'EB'

362'MP' 363'MP' 364'MP' 365'MP' 366'MP' 367'MP' 368'MP' 369

MILLPOND RD

MAINTENANCE RD (WEST)

62'MRW' 63'MRW'

63+60.00'MRW'
6.00'LT

63+60.00'MRW'
6.00'RT

END CONSTRUCTION
STA 63+60'MRW'
MATCH EXISTING AGGREGATE

SLOPE INTERCEPT (TYP)

12.0'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 90	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021200-PD (PLAN DETAILS).DWG PLOT DATE : 4/29/2022 9:26 AM PLOT BY : SEH LAYOUT NAME : 07 PLOT SCALE : 1.0 IN = 50.0 FT

2

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AG21	BASE AGGREGATE DENSE 1 1/4-INCH, 8-INCH
AP03	3.0-INCH HMA PAVEMENT
AP04	3.5-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CB01	CONCRETE BARRIER TYPE S42
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CP09	CONCRETE PAVEMENT 9-INCH
PV05	ASPHALTIC FLUMES
SW01	SAWING ASPHALT

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

N

MATCH LINE 169+00'EB'

MATCH LINE 176+50'EB'

MAAHIC WAY

USH 12/18 WB

USH 12/18 EB

MILLPOND RD

MAINTENANCE RD (EAST)

MATCH EXISTING PAVEMENT EDGE

SLOPE INTERCEPT (TYP)

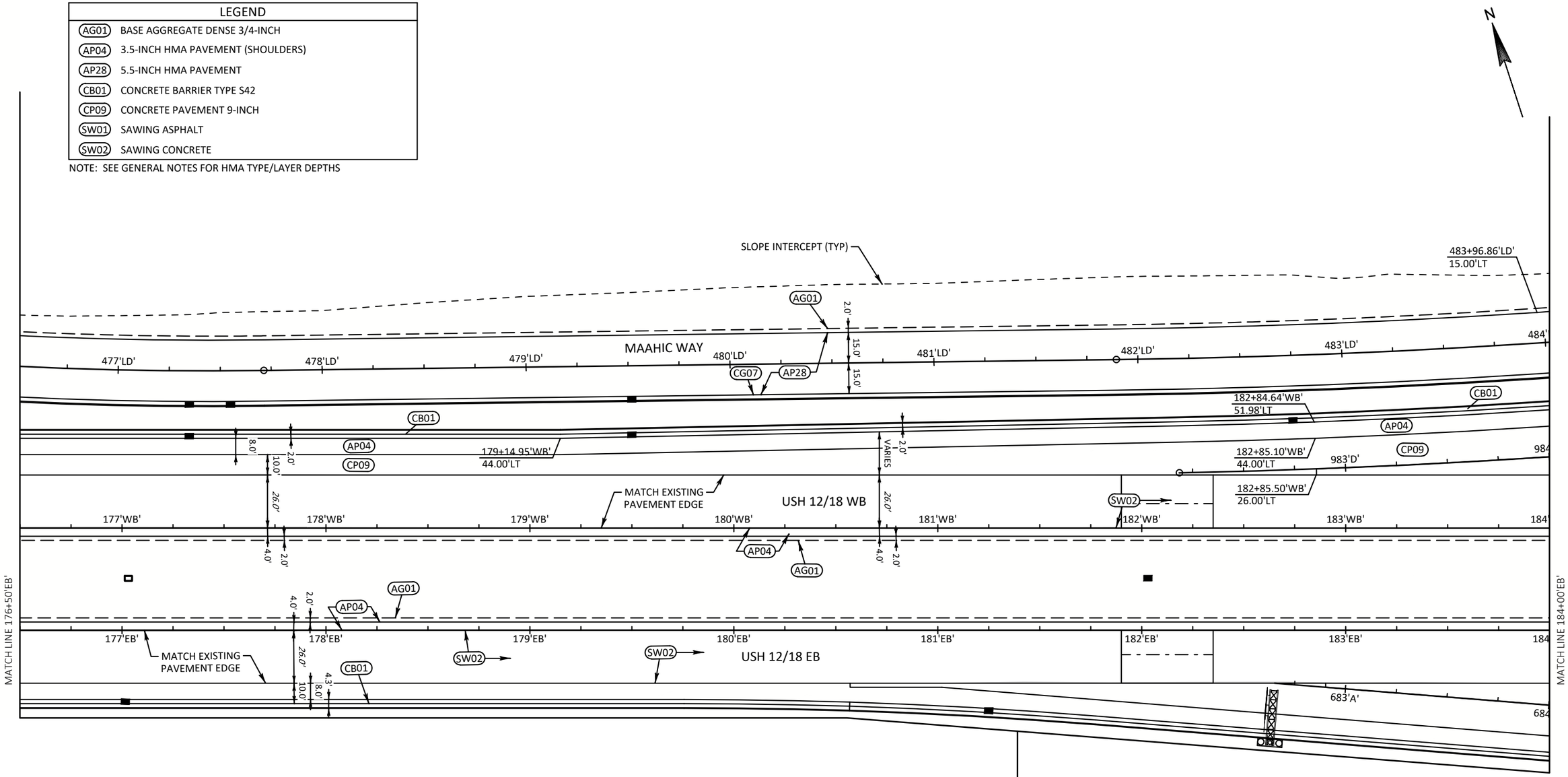
BEGIN CONSTRUCTION
STA 369+70'MRE'
MATCH EXISTING AGGREGATE

MATCH LINE 374+00'GCE'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 91	E

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
AP28	5.5-INCH HMA PAVEMENT
CB01	CONCRETE BARRIER TYPE S42
CP09	CONCRETE PAVEMENT 9-INCH
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 92	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021200-PD (PLAN DETAILS).DWG
PLOT DATE : 4/29/2022 9:27 AM
PLOT BY : SEH
LAYOUT NAME : 09
PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

2

SLOPE INTERCEPT (TYP)

STA 486+97.80'LD'
STA 536+45.68'NB'

486+21.25'LD'
21.84'LT

MAAHIC WAY

485+38.75'LD'
19.24'LT

R=200.2'

AG01

2.0'

VARIES

15.0'

486'LD'

END CONSTRUCTION PROJECT 3080-01-76
BEGIN CONSTRUCTION PROJECT 3080-01-75
STA 486+21.25'LD'

486+21.25'LD'
15.00'RT

484+57.13'LD'
17.41'LT

R=400.0'

AP28

CG07

485'LD'

484+26.04'LD'
15.95'LT

CTH AB

536'NB'

535'NB'

534'NB'

CTH AB

N

LEGEND

AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
AP28	5.5-INCH HMA PAVEMENT
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

WB ENTRANCE RAMP

991'D'
990'D'
989'D'
988'D'
987'D'
986'D'
985'D'

AP04
AG01
6.0'
2.0'

SW02

MATCH EXISTING PAVEMENT EDGE

USH 12/18 WB

26.0'
4.0'
2.0'

WB'
185'WB'
186'WB'
187'WB'
188'WB'
189'WB'
190'WB'
191'WB'

MATCH LINE 184+00'EB'

MATCH LINE 191+50'EB'

EB'
185'EB'
186'EB'
187'EB'
188'EB'
189'EB'
190'EB'
191'EB'

USH 12/18 EB

685'A'
686'A'
687'A'
688'A'
689'A'
690'A'
691'A'

EB EXIT RAMP

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 93	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021200-PD (PLAN DETAILS).DWG
PLOT DATE : 4/29/2022 9:27 AM
PLOT BY : SEH
LAYOUT NAME : 10
PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

2

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
BG08	MGS GUARDRAIL 3
BG09	MGS GUARDRAIL TERMINAL EAT
BG10	STEEL THRIE BEAM
BG11	STEEL THRIE BEAM BULLNOSE TERMINAL
CB01	CONCRETE BARRIER TYPE S42
CP06	CONCRETE PAVEMENT 6-INCH
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

WB ENTRANCE RAMP
992'D'
993'D'
994'D'
995'D'
CTH AB SB
CTH AB NB
521'SB'
521'NB'
N
R-13-371 (SEE PROJECT 3080-01-75)
198+23.10'WB'
42.00'LT
198+13.10'WB'
43.50'LT
MATCH LINE 191+50'EB'
MATCH LINE 199+00'EB'
USH 12/18 WB
194+04.32'WB'
32.00'LT
MATCH EXISTING PAVEMENT EDGE
196+34.32'WB'
43.50'LT
196+34.32'WB'
40.33'LT
196+34.32'WB'
38.00'LT
196+34.32'WB'
36.00'LT
198+13.10'WB'
40.33'LT
198+09.32'WB'
38.00'LT
198+13.10'WB'
38.00'LT
198+10.60'WB'
38.00'LT
192'WB'
193'WB'
194'WB'
195'WB'
196'WB'
197'WB'
198'WB'
196+27.38'WB'
17.90'RT
196+15.16'WB'
20.16'RT
196+15.16'EB'
20.16'LT
POST #5
POST #1
196+27.38'EB'
17.90'LT
198+16.25'WB'
17.90'RT
198+28.47'WB'
20.16'RT
198+16.25'EB'
17.90'LT
198+28.47'EB'
20.16'LT
192'EB'
193'EB'
194'EB'
195'EB'
196'EB'
197'EB'
198'EB'
193+24.42'EB'
32.00'RT
192+64.42'EB'
34.00'RT
194+44.42'EB'
38.00'RT
194+94.42'EB'
38.00'RT
194+69.42'EB'
39.00'RT
194+44.42'EB'
40.00'RT
194+44.42'EB'
46.00'RT
194+69.42'EB'
43.33'RT
194+94.42'EB'
42.00'RT
196+36.82'EB'
38.00'RT
196+34.32'EB'
38.00'RT
196+24.32'EB'
42.00'RT
196+34.32'EB'
40.33'RT
196+34.32'EB'
43.50'RT
198+09.32'EB'
36.00'RT
198+09.32'EB'
38.16'RT
198+09.32'EB'
43.50'RT
198+09.32'EB'
40.33'RT
S-13-563 (SEE PROJECT 3080-01-75)
R-13-370 (SEE PROJECT 3080-01-75)
B-13-893 (SEE PROJECT 3080-01-75)
519'SB'
519'NB'
518'NB'
692'A'
693'A'
694'A'
695'A'
EB EXIT RAMP

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 94	E

2

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
BG08	MGS GUARDRAIL 3
BG09	MGS GUARDRAIL TERMINAL EAT
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

SLOPE INTERCEPT (TYP)

N

802'C'

WB EXIT RAMP

803'C'

805'C'

806'C'

199+78.00'WB'
43.33'LT

199+53.00'WB'
42.00'LT

200+03.00'WB'
46.00'LT

AG01

201+79.22'WB'
34.00'LT

AP04

AG01

BG08

BG09

199+53.00'WB'
38.00'LT

200+03.00'WB'
38.00'LT

200+03.00'WB'
40.00'LT

201+19.22'WB'
32.00'LT

199+78.00'WB'
39.00'LT

SW02

MATCH EXISTING
PAVEMENT EDGE

USH 12/18 WB

6.0'

2.0'

26.0'

4.0'

2.0'

WB'

200'WB'

201'WB'

202'WB'

203'WB'

204'WB'

205'WB'

206'WB'

AP04

AG01

MATCH LINE 199+00'EB'

AG01

AP04

4.0'

2.0'

'EB'

200'EB'

201'EB'

202'EB'

203'EB'

204'EB'

205'EB'

206'EB'

AP04

SW02

MATCH EXISTING
PAVEMENT EDGE

USH 12/18 EB

26.0'

6.0'

2.0'

2.0'

AG01

200+39.32'EB'
32.00'RT

AP04

AG01

MATCH LINE 206+50'EB'

706'B'

705'B'

704'B'

703'B'

EB ENTRANCE RAMP

702'B'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 95	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021200-PD (PLAN DETAILS).DWG
PLOT DATE : 4/29/2022 9:28 AM
PLOT BY : SEH
LAYOUT NAME : 12
PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

2

2

N

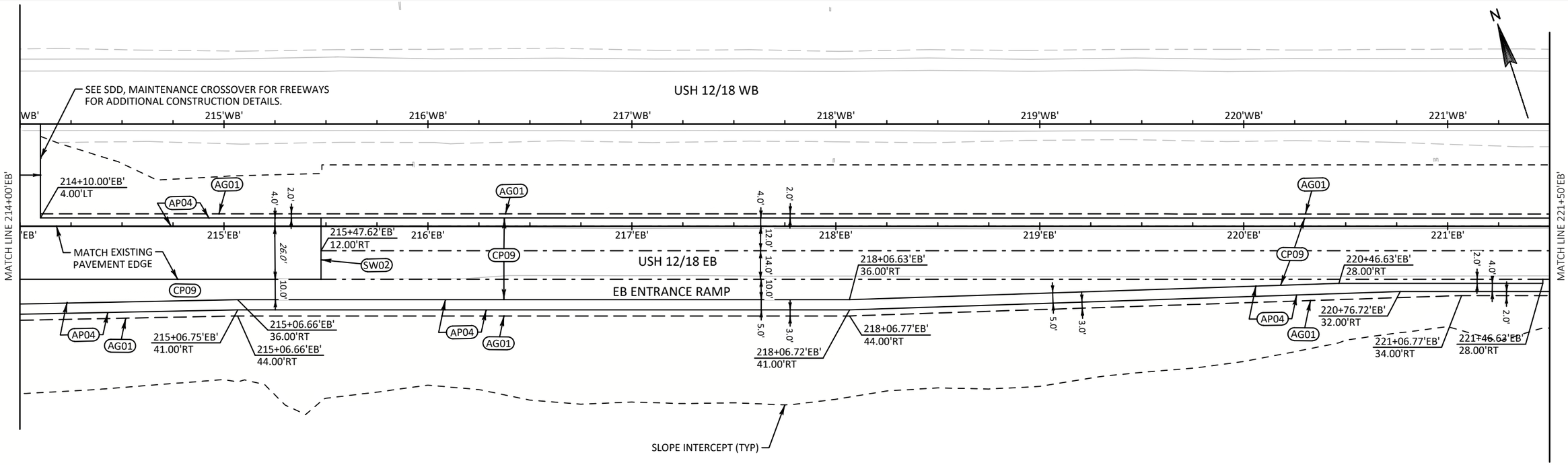
SLOPE INTERCEPT (TYP)

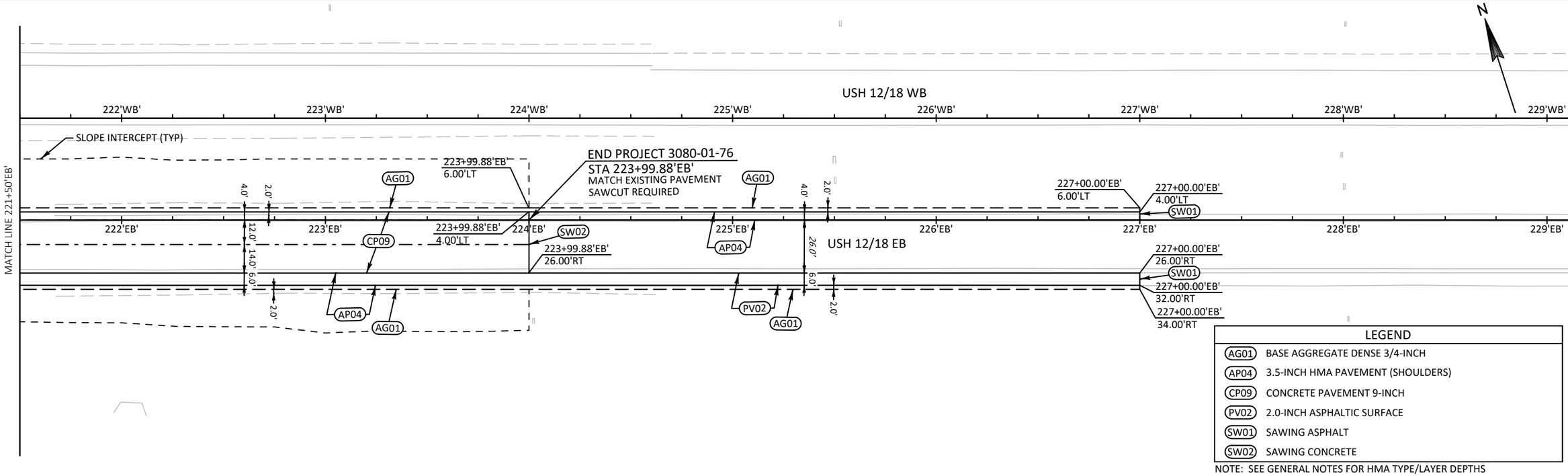
LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
CP09	CONCRETE PAVEMENT 9-INCH
SW01	SAWING ASPHALT

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

807'C'
808'C'
809'C'
810'C'
811'C'
WB EXIT RAMP
AP04
AG01
MATCH EXISTING PAVEMENT EDGE
208+76.03'WB'
26.00'LT
26.0'
USH 12/18 WB
207'WB'
208'WB'
209'WB'
210'WB'
211'WB'
212'WB'
213'WB'
214'
4.0'
2.0'
END WB CONSTRUCTION
STA 213+84.53'WB'
MATCH EXISTING PAVEMENT
SAWCUT REQUIRED
20.0'
MATCH LINE 206+50'EB'
MATCH LINE 214+00'EB'
207'EB'
208'EB'
209'EB'
210'EB'
211'EB'
212'EB'
213'EB'
214
MATCH EXISTING PAVEMENT EDGE
209+35.00'EB'
32.00'RT
USH 12/18 EB
211+10.67'EB'
29.00'RT
211+10.67'EB'
26.00'RT
212+06.64'EB'
27.00'RT
212+06.64'EB'
26.00'RT
213+90.00'EB'
4.00'LT
6.0'
2.0'
AP04
AG01
710'B'
711'B'
712'B'
712+06.64'B'
0.00'RT
EB ENTRANCE RAMP
CP09
VAR
5.0'
3.0'
709'B'
708'B'
707'B'
212+06.66'EB'
47.00'RT
212+06.66'EB'
42.00'RT
212+06.66'EB'
50.00'RT

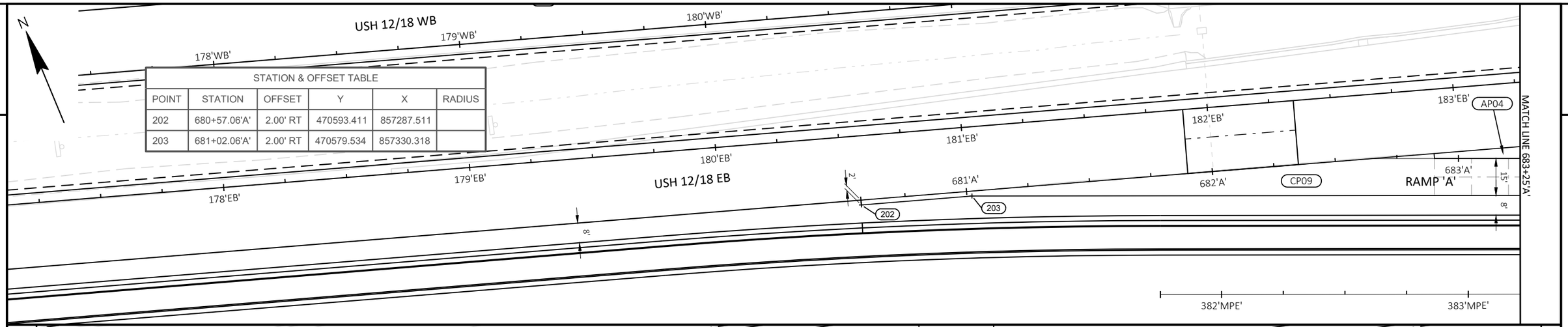
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 96	E



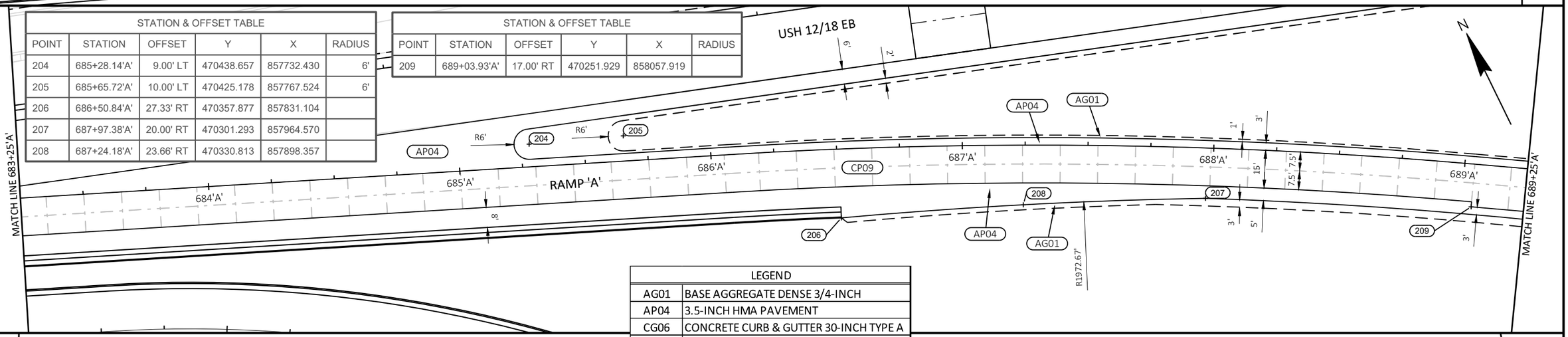


LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT (SHOULDERS)
CP09	CONCRETE PAVEMENT 9-INCH
PV02	2.0-INCH ASPHALTIC SURFACE
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS



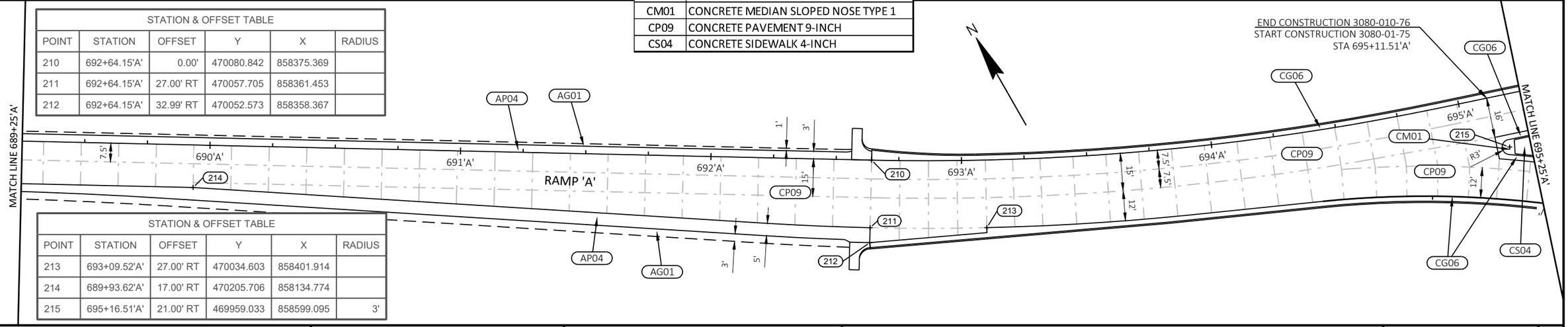
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
202	680+57.06'A'	2.00' RT	470593.411	857287.511	
203	681+02.06'A'	2.00' RT	470579.534	857330.318	



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
204	685+28.14'A'	9.00' LT	470438.657	857732.430	6'
205	685+65.72'A'	10.00' LT	470425.178	857767.524	6'
206	686+50.84'A'	27.33' RT	470357.877	857831.104	
207	687+97.38'A'	20.00' RT	470301.293	857964.570	
208	687+24.18'A'	23.66' RT	470330.813	857898.357	

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
209	689+03.93'A'	17.00' RT	470251.929	858057.919	

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT
CG06	CONCRETE CURB & GUTTER 30-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP09	CONCRETE PAVEMENT 9-INCH
CS04	CONCRETE SIDEWALK 4-INCH



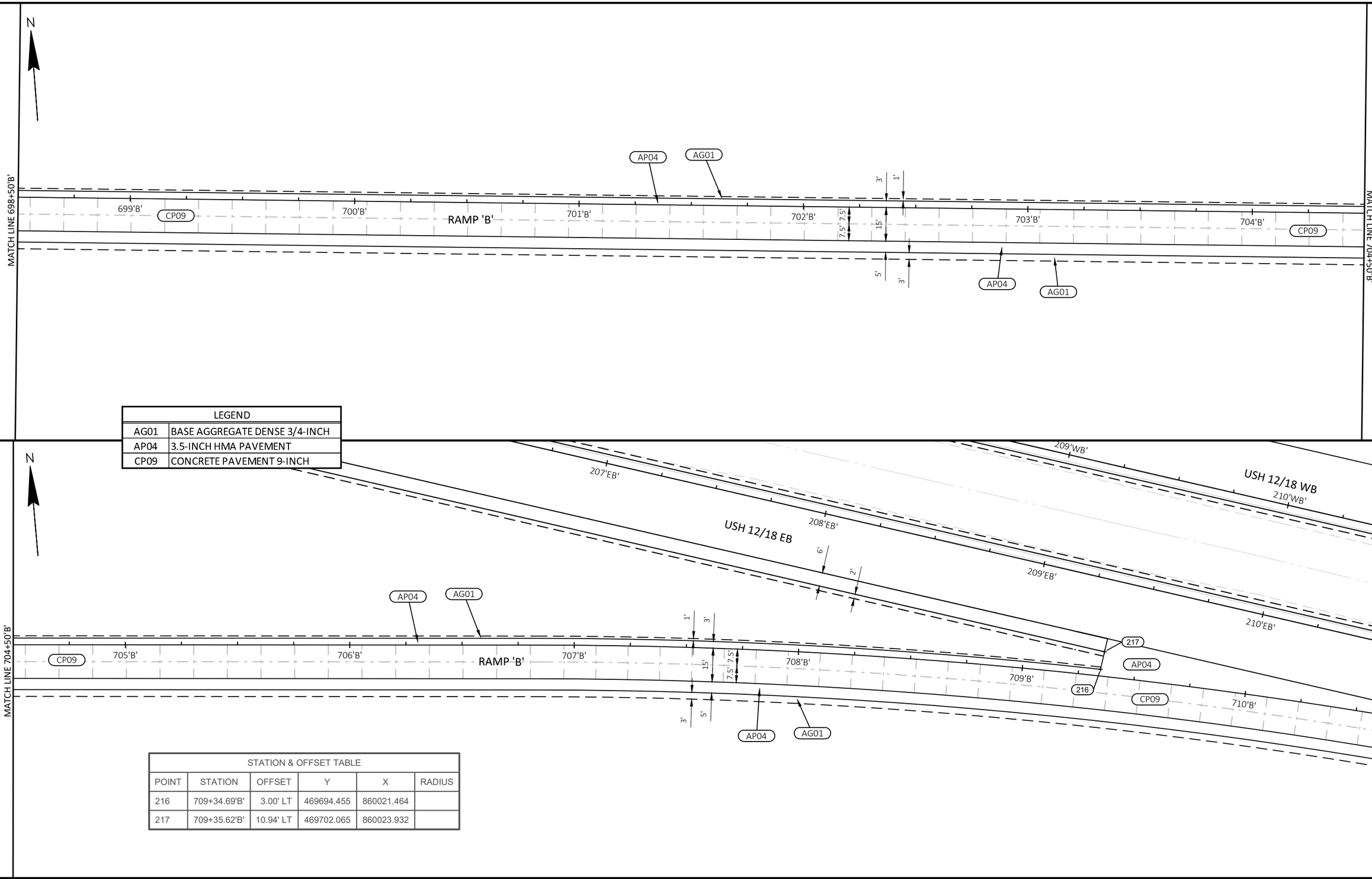
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
210	692+64.15'A'	0.00'	470080.842	858375.369	
211	692+64.15'A'	27.00' RT	470057.705	858361.453	
212	692+64.15'A'	32.99' RT	470052.573	858358.367	

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
213	693+09.52'A'	27.00' RT	470034.603	858401.914	
214	689+93.62'A'	17.00' RT	470205.706	858134.774	
215	695+16.51'A'	21.00' RT	469959.033	858599.095	3'

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS: RAMP 'A' (EB EXIT RAMP)	SHEET 98	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021101_ID.DWG
LAYOUT NAME - 021106_id
PLOT DATE : 5/26/2022 8:46 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

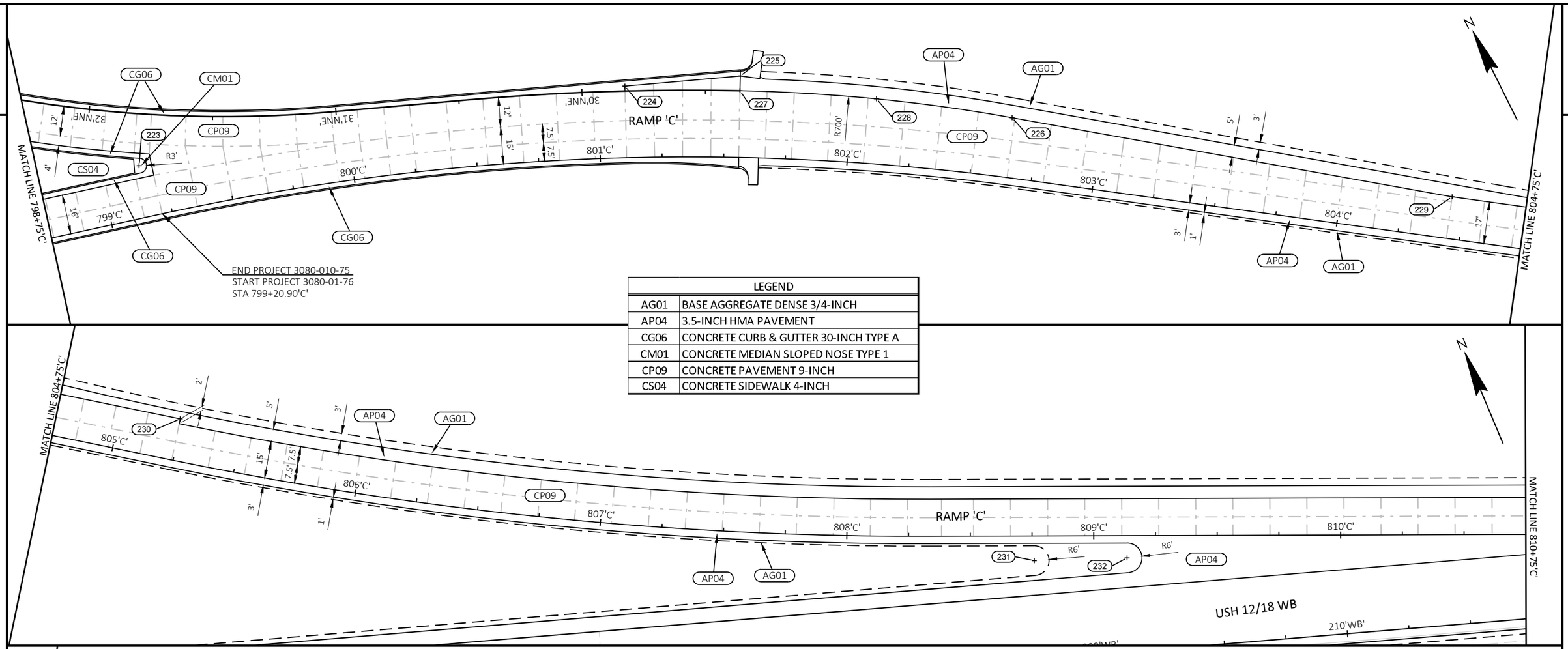


LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT
CP09	CONCRETE PAVEMENT 9-INCH

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
216	709+34.69'B'	3.00' LT	469694.455	860021.464	
217	709+35.62'B'	10.94' LT	469702.065	860023.932	

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS: RAMP 'B' (EB ENTRANCE RAMP)	SHEET 99	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021101_ID.DWG
LAYOUT NAME - 021107_id
PLOT DATE : 5/26/2022 8:46 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT



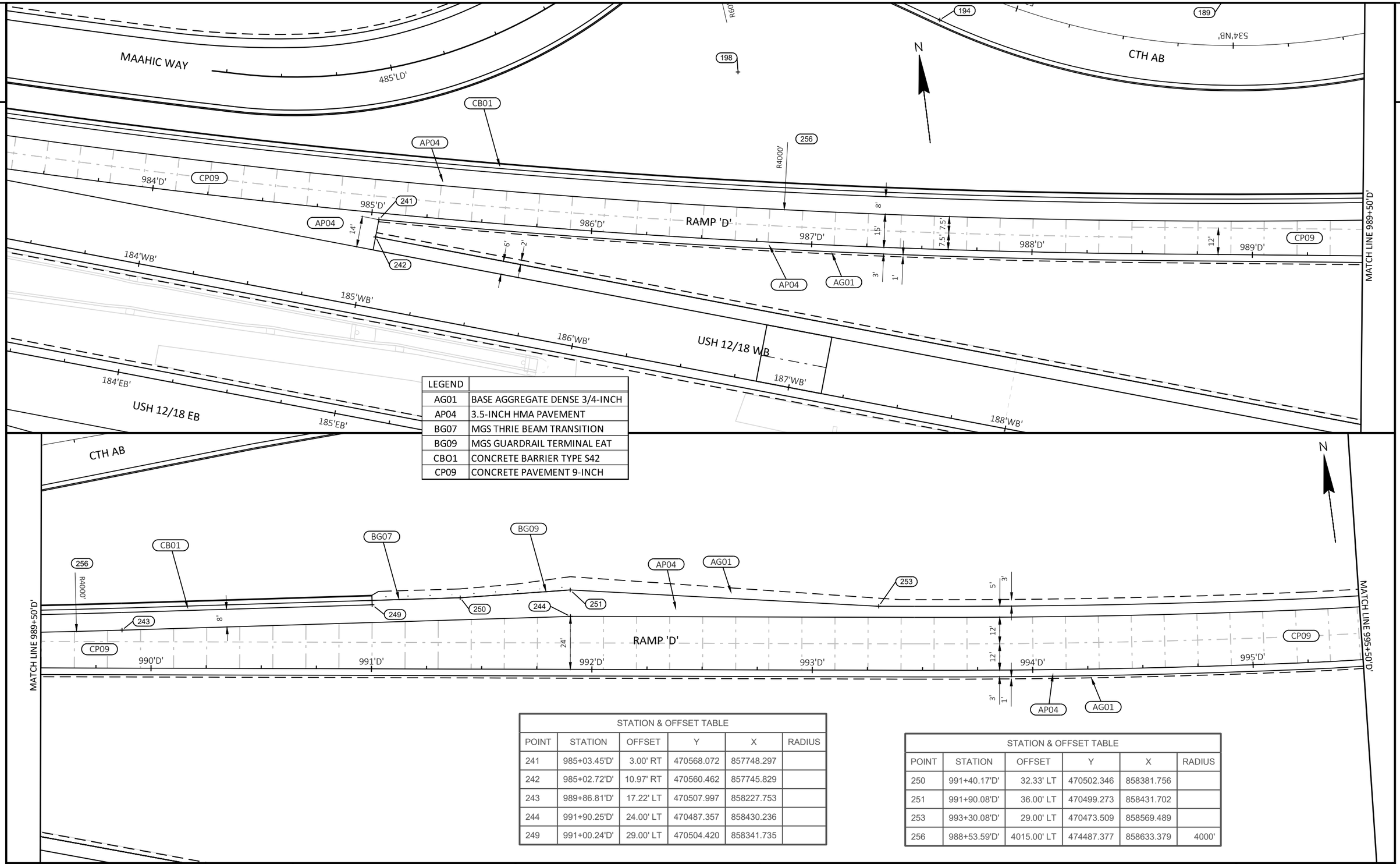
LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT
CG06	CONCRETE CURB & GUTTER 30-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP09	CONCRETE PAVEMENT 9-INCH
CS04	CONCRETE SIDEWALK 4-INCH

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
223	799+15.91'C'	21.00' LT	470316.024	859172.206	3'
224	801+10.65'C'	29.00' LT	470257.226	859362.703	
225	801+56.02'C'	32.99' LT	470240.065	859406.396	
226	802+64.03'C'	24.29' LT	470175.886	859497.431	
227	801+56.02'C'	27.00' LT	470234.758	859403.620	
228	802+10.01'C'	26.34' LT	470207.180	859451.691	
229	804+44.75'C'	17.00' LT	470067.784	859642.731	
230	805+24.44'C'	17.00' LT	470022.811	859708.516	

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
231	808+75.87'C'	10.00' RT	469836.303	860005.463	6'
232	809+13.45'C'	9.00' RT	469822.824	860040.557	6'
233	811+51.35'C'	0.00'	469739.956	860263.738	
234	813+39.53'C'	2.00' LT	469681.947	860442.669	
235	813+84.53'C'	2.00' LT	469668.069	860485.476	
254	813+52.23'C'	6.00' LT	469681.836	860455.983	
255	813+64.85'C'	8.00' LT	469679.846	860468.605	

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS: RAMP 'C' (WB EXIT RAMP)	SHEET 100	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021101_ID.DWG
LAYOUT NAME - 021109_id
PLOT DATE : 5/26/2022 8:46 AM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT
BG07	MGS THRIE BEAM TRANSITION
BG09	MGS GUARDRAIL TERMINAL EAT
CBO1	CONCRETE BARRIER TYPE S42
CP09	CONCRETE PAVEMENT 9-INCH

STATION & OFFSET TABLE

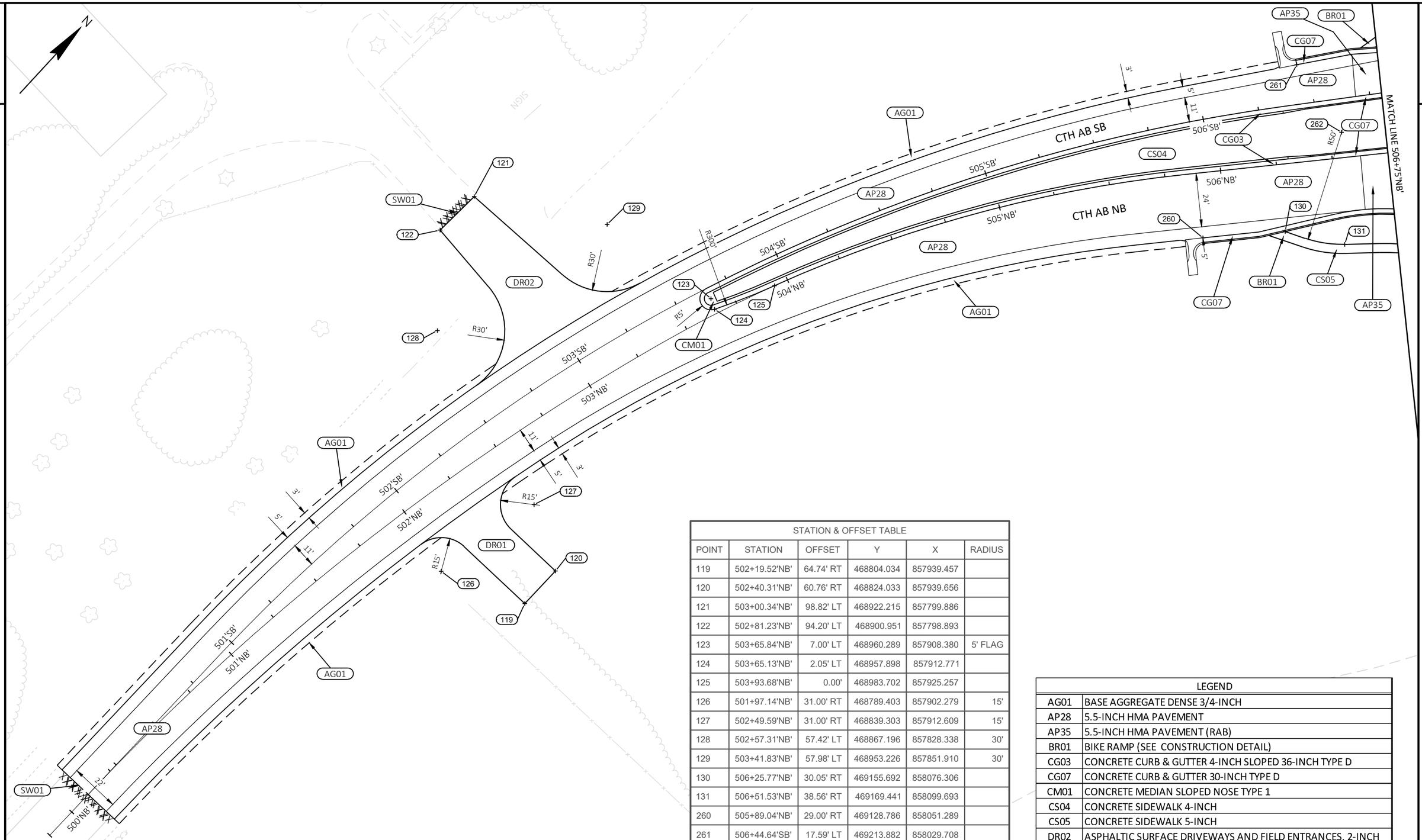
POINT	STATION	OFFSET	Y	X	RADIUS
241	985+03.45'D'	3.00' RT	470568.072	857748.297	
242	985+02.72'D'	10.97' RT	470560.462	857745.829	
243	989+86.81'D'	17.22' LT	470507.997	858227.753	
244	991+90.25'D'	24.00' LT	470487.357	858430.236	
249	991+00.24'D'	29.00' LT	470504.420	858341.735	

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y	X	RADIUS
250	991+40.17'D'	32.33' LT	470502.346	858381.756	
251	991+90.08'D'	36.00' LT	470499.273	858431.702	
253	993+30.08'D'	29.00' LT	470473.509	858569.489	
256	988+53.59'D'	4015.00' LT	474487.377	858633.379	4000'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS: RAMP 'D' (WB ENTRANCE RAMP)	SHEET 101	E

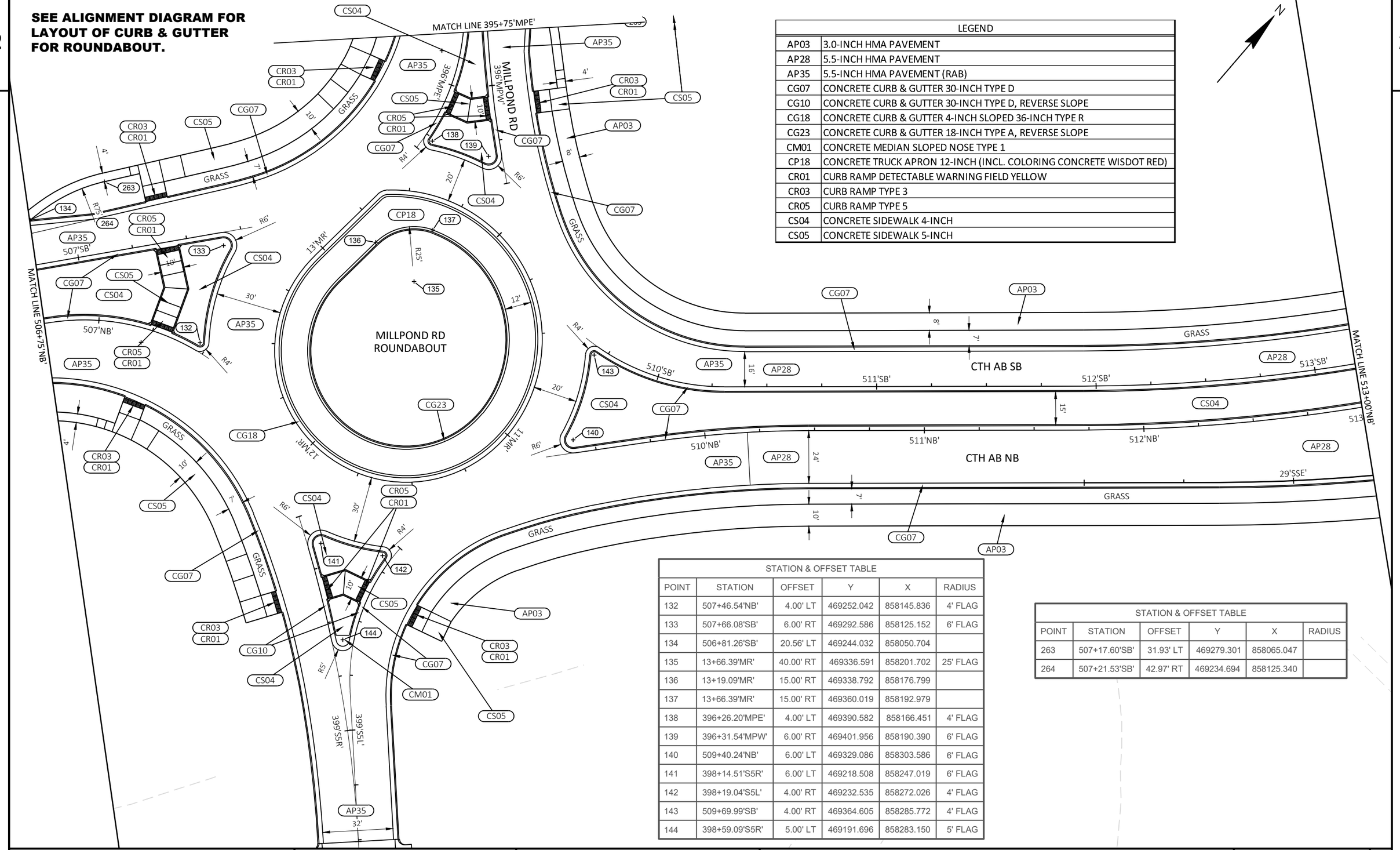
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021101_ID.DWG
LAYOUT NAME - 021111_id
PLOT DATE : 5/26/2022 8:47 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
119	502+19.52'NB'	64.74' RT	468804.034	857939.457	
120	502+40.31'NB'	60.76' RT	468824.033	857939.656	
121	503+00.34'NB'	98.82' LT	468922.215	857799.886	
122	502+81.23'NB'	94.20' LT	468900.951	857798.893	
123	503+65.84'NB'	7.00' LT	468960.289	857908.380	5' FLAG
124	503+65.13'NB'	2.05' LT	468957.898	857912.771	
125	503+93.68'NB'	0.00'	468983.702	857925.257	
126	501+97.14'NB'	31.00' RT	468789.403	857902.279	15'
127	502+49.59'NB'	31.00' RT	468839.303	857912.609	15'
128	502+57.31'NB'	57.42' LT	468867.196	857828.338	30'
129	503+41.83'NB'	57.98' LT	468953.226	857851.910	30'
130	506+25.77'NB'	30.05' RT	469155.692	858076.306	
131	506+51.53'NB'	38.56' RT	469169.441	858099.693	
260	505+89.04'NB'	29.00' RT	469128.786	858051.289	
261	506+44.64'SB'	17.59' LT	469213.882	858029.708	
262	506+55.42'NB'	11.29' LT	469205.249	858064.795	50'

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP28	5.5-INCH HMA PAVEMENT
AP35	5.5-INCH HMA PAVEMENT (RAB)
BR01	BIKE RAMP (SEE CONSTRUCTION DETAIL)
CG03	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CS04	CONCRETE SIDEWALK 4-INCH
CS05	CONCRETE SIDEWALK 5-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 2-INCH
SW01	SAWING ASPHALT

SEE ALIGNMENT DIAGRAM FOR LAYOUT OF CURB & GUTTER FOR ROUNDABOUT.



LEGEND	
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
AP35	5.5-INCH HMA PAVEMENT (RAB)
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CG10	CONCRETE CURB & GUTTER 30-INCH TYPE D, REVERSE SLOPE
CG18	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
CG23	CONCRETE CURB & GUTTER 18-INCH TYPE A, REVERSE SLOPE
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP18	CONCRETE TRUCK APRON 12-INCH (INCL. COLORING CONCRETE WISDOT RED)
CR01	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CR03	CURB RAMP TYPE 3
CR05	CURB RAMP TYPE 5
CS04	CONCRETE SIDEWALK 4-INCH
CS05	CONCRETE SIDEWALK 5-INCH

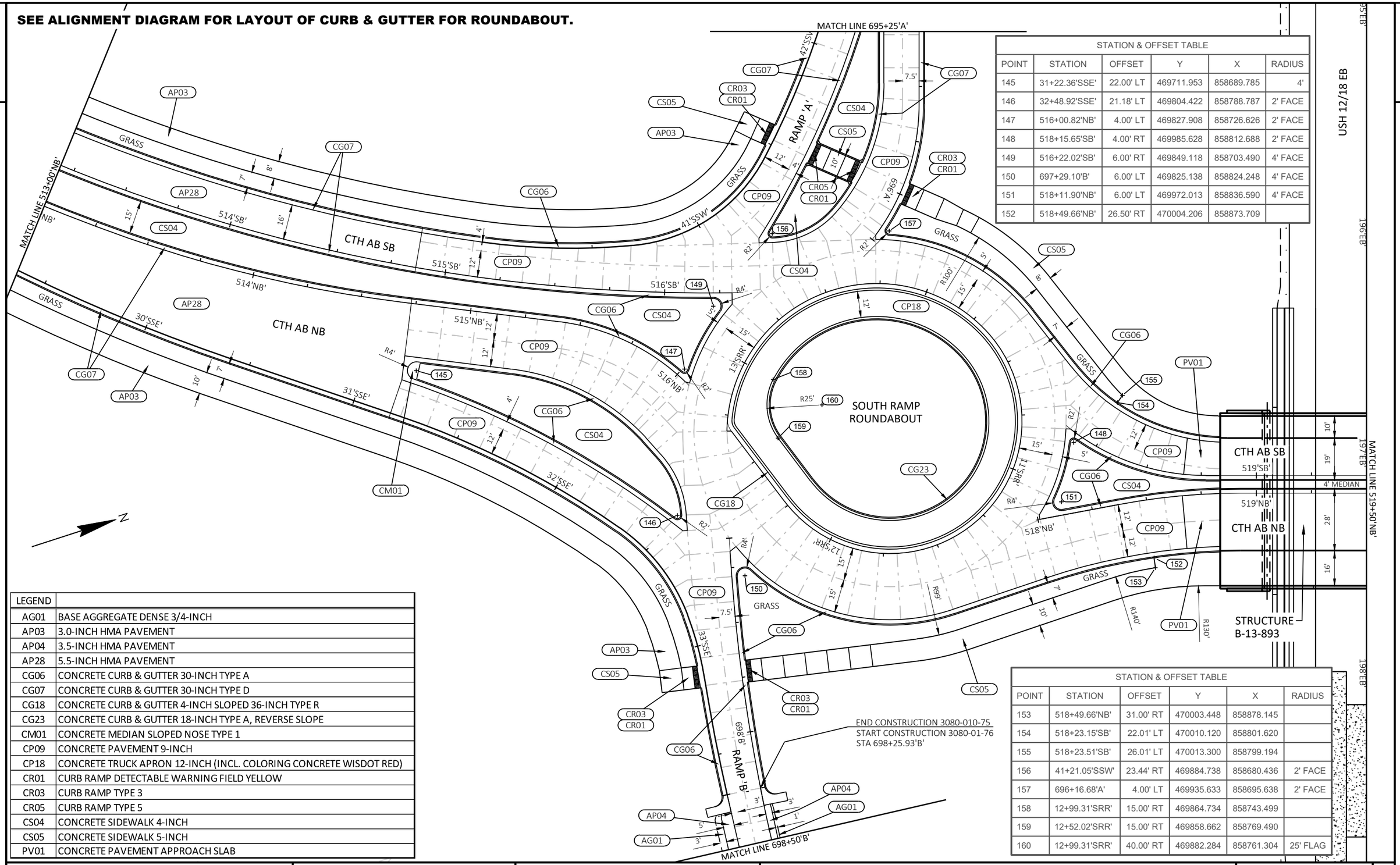
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
132	507+46.54'NB'	4.00' LT	469252.042	858145.836	4' FLAG
133	507+66.08'SB'	6.00' RT	469292.586	858125.152	6' FLAG
134	506+81.26'SB'	20.56' LT	469244.032	858050.704	
135	13+66.39'MR'	40.00' RT	469336.591	858201.702	25' FLAG
136	13+19.09'MR'	15.00' RT	469338.792	858176.799	
137	13+66.39'MR'	15.00' RT	469360.019	858192.979	
138	396+26.20'MPE'	4.00' LT	469390.582	858166.451	4' FLAG
139	396+31.54'MPW'	6.00' RT	469401.956	858190.390	6' FLAG
140	509+40.24'NB'	6.00' LT	469329.086	858303.586	6' FLAG
141	398+14.51'S5R'	6.00' LT	469218.508	858247.019	6' FLAG
142	398+19.04'S5L'	4.00' RT	469232.535	858272.026	4' FLAG
143	509+69.99'SB'	4.00' RT	469364.605	858285.772	4' FLAG
144	398+59.09'S5R'	5.00' LT	469191.696	858283.150	5' FLAG

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
263	507+17.60'SB'	31.93' LT	469279.301	858065.047	
264	507+21.53'SB'	42.97' RT	469234.694	858125.340	

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN DETAILS: CTH AB	SHEET 103	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021101_ID.DWG
LAYOUT NAME - 021102_id
PLOT DATE : 1/10/2022 9:54 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

SEE ALIGNMENT DIAGRAM FOR LAYOUT OF CURB & GUTTER FOR ROUNDABOUT.



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
145	31+22.36'SSE'	22.00' LT	469711.953	858689.785	4'
146	32+48.92'SSE'	21.18' LT	469804.422	858788.787	2' FACE
147	516+00.82'NB'	4.00' LT	469827.908	858726.626	2' FACE
148	518+15.65'SB'	4.00' RT	469985.628	858812.688	2' FACE
149	516+22.02'SB'	6.00' RT	469849.118	858703.490	4' FACE
150	697+29.10'B'	6.00' LT	469825.138	858824.248	4' FACE
151	518+11.90'NB'	6.00' LT	469972.013	858836.590	4' FACE
152	518+49.66'NB'	26.50' RT	470004.206	858873.709	

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP03	3.0-INCH HMA PAVEMENT
AP04	3.5-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG06	CONCRETE CURB & GUTTER 30-INCH TYPE A
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CG18	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
CG23	CONCRETE CURB & GUTTER 18-INCH TYPE A, REVERSE SLOPE
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP09	CONCRETE PAVEMENT 9-INCH
CP18	CONCRETE TRUCK APRON 12-INCH (INCL. COLORING CONCRETE WISDOT RED)
CR01	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CR03	CURB RAMP TYPE 3
CR05	CURB RAMP TYPE 5
CS04	CONCRETE SIDEWALK 4-INCH
CS05	CONCRETE SIDEWALK 5-INCH
PV01	CONCRETE PAVEMENT APPROACH SLAB

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
153	518+49.66'NB'	31.00' RT	470003.448	858878.145	
154	518+23.15'SB'	22.01' LT	470010.120	858801.620	
155	518+23.51'SB'	26.01' LT	470013.300	858799.194	
156	41+21.05'SSW'	23.44' RT	469884.738	858680.436	2' FACE
157	696+16.68'A'	4.00' LT	469935.633	858695.638	2' FACE
158	12+99.31'SRR'	15.00' RT	469864.734	858743.499	
159	12+52.02'SRR'	15.00' RT	469858.662	858769.490	
160	12+99.31'SRR'	40.00' RT	469882.284	858761.304	25' FLAG

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN DETAILS: CTH AB	SHEET 104 E

LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP04	3.5-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
BR01	BIKE RAMP (SEE CONSTRUCTION DETAIL)
CG06	CONCRETE CURB & GUTTER 30-INCH TYPE A
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CG18	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
CG23	CONCRETE CURB & GUTTER 18-INCH TYPE A, REVERSE SLOPE
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP09	CONCRETE PAVEMENT 9-INCH
CP18	CONCRETE TRUCK APRON 12-INCH (INCL. COLORING CONCRETE WISDOT RED)
CR01	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CR03	CURB RAMP TYPE 3
CR05	CURB RAMP TYPE 5
CS04	CONCRETE SIDEWALK 4-INCH
CS05	CONCRETE SIDEWALK 5-INCH
PV01	CONCRETE PAVEMENT APPROACH SLAB

SEE ALIGNMENT DIAGRAM FOR LAYOUT OF CURB & GUTTER FOR ROUNDABOUT.

N

MATCH LINE 995+50'D'

MATCH LINE 527+00'NB'

MATCH LINE 519+50'NB'

MATCH LINE 798+75'C'

RAMP 'D'

RAMP 'C'

END CONSTRUCTION 3080-010-76
START CONSTRUCTION 3080-01-75
STA 996+03.31'D'

STRUCTURE B-13-893

USH 12/18 WB

CTH AB SB

CTH AB NB

NORTH RAMP ROUNDABOUT

520'SB'

520'NB'

521'SB'

521'NB'

524'SB'

524'NB'

525'SB'

525'NB'

526'SB'

526'NB'

4' MEDIAN

10'

19'

28'

16'

12'NRR'

11'NRR'

13'NRR'

41'NNW'

42'NNW'

33'NNE'

34'NNE'

35'NNE'

36'NNE'

GRASS

R125'

R100'

R80'

R67'

R50'

R30'

R23'

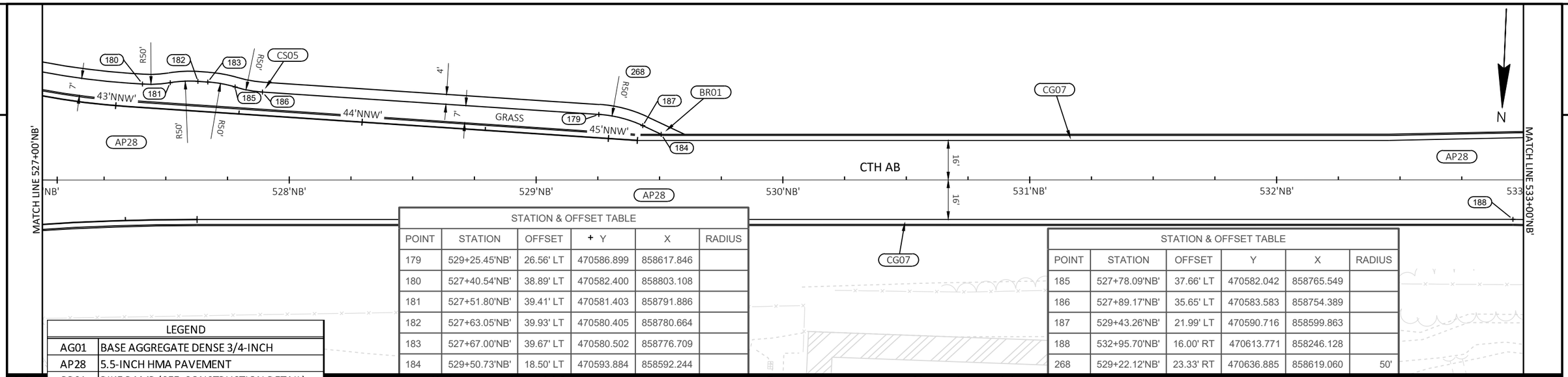
R4'

R2'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
161	521+41.54'SB'	6.00' RT	470291.809	858922.421	4' FACE
162	996+76.66'D'	6.00' RT	470412.191	858910.734	4' FACE
163	523+42.30'NB'	6.00' LT	470426.095	859045.015	4' FACE
164	521+39.86'NB'	4.00' LT	470278.949	858948.778	2' FACE
165	40+90.17'NNW'	26.49' RT	470450.383	858941.347	2' FACE
166	523+27.10'SB'	4.00' RT	470451.411	858987.097	2' FACE
167	32+97.07'NNE'	21.30' LT	470393.050	859072.267	2' FACE
168	798+10.75'C'	4.00' RT	470326.855	859066.161	2' FACE
169	32+73.25'NNE'	48.78' LT	470352.583	859073.762	
170	32+80.61'NNE'	46.24' LT	470359.822	859069.418	
171	32+88.85'NNE'	36.48' LT	470374.924	859067.851	
172	34+08.89'NNE'	2.50' RT	470513.149	859075.413	

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
173	521+11.13'NB'	31.93' RT	470236.275	858955.848	
174	521+10.43'NB'	36.40' RT	470233.187	858959.121	
175	521+26.14'SB'	17.50' LT	470277.957	858898.212	
176	521+26.14'SB'	21.50' LT	470278.279	858894.225	
177	526+19.48'NB'	4.00' LT	470622.375	858922.593	2'
178	525+91.01'SB'	17.72' LT	470605.348	858866.473	2'
265	520+81.95'SB'	151.85' LT	470271.695	858761.388	125'
266	12+95.46'NRR'	23.95' RT	470393.149	858985.020	100'
267	10+16.19'NRR'	31.40' RT	470350.283	859005.003	80'

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN DETAILS: CTH AB	SHEET 105 E



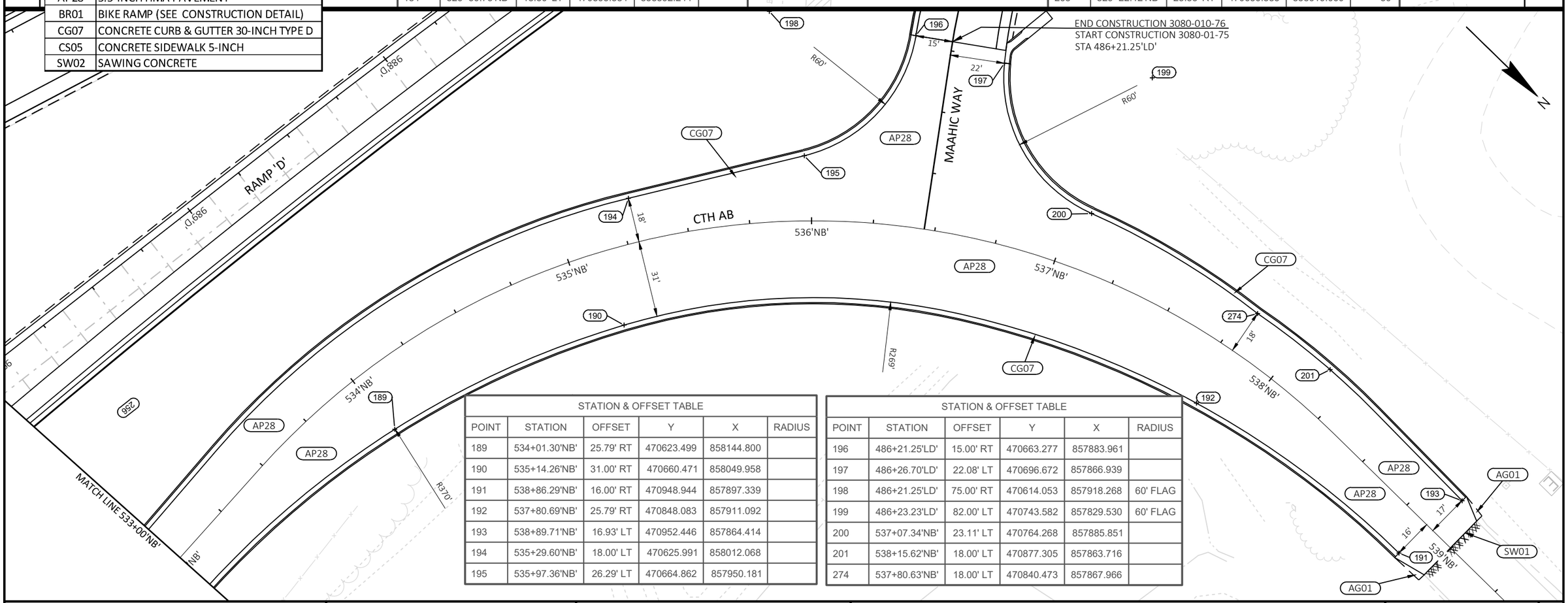
LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP28	5.5-INCH HMA PAVEMENT
BR01	BIKE RAMP (SEE CONSTRUCTION DETAIL)
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CS05	CONCRETE SIDEWALK 5-INCH
SW02	SAWING CONCRETE

STATION & OFFSET TABLE

POINT	STATION	OFFSET	+ Y	X	RADIUS
179	529+25.45'NB'	26.56' LT	470586.899	858617.846	
180	527+40.54'NB'	38.89' LT	470582.400	858803.108	
181	527+51.80'NB'	39.41' LT	470581.403	858791.886	
182	527+63.05'NB'	39.93' LT	470580.405	858780.664	
183	527+67.00'NB'	39.67' LT	470580.502	858776.709	
184	529+50.73'NB'	18.50' LT	470593.884	858592.244	

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y	X	RADIUS
185	527+78.09'NB'	37.66' LT	470582.042	858765.549	
186	527+89.17'NB'	35.65' LT	470583.583	858754.389	
187	529+43.26'NB'	21.99' LT	470590.716	858599.863	
188	532+95.70'NB'	16.00' RT	470613.771	858246.128	
268	529+22.12'NB'	23.33' RT	470636.885	858619.060	50'



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y	X	RADIUS
189	534+01.30'NB'	25.79' RT	470623.499	858144.800	
190	535+14.26'NB'	31.00' RT	470660.471	858049.958	
191	538+86.29'NB'	16.00' RT	470948.944	857897.339	
192	537+80.69'NB'	25.79' RT	470848.083	857911.092	
193	538+89.71'NB'	16.93' LT	470952.446	857864.414	
194	535+29.60'NB'	18.00' LT	470625.991	858012.068	
195	535+97.36'NB'	26.29' LT	470664.862	857950.181	

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y	X	RADIUS
196	486+21.25'LD'	15.00' RT	470663.277	857883.961	
197	486+26.70'LD'	22.08' LT	470696.672	857866.939	
198	486+21.25'LD'	75.00' RT	470614.053	857918.268	60' FLAG
199	486+23.23'LD'	82.00' LT	470743.582	857829.530	60' FLAG
200	537+07.34'NB'	23.11' LT	470764.268	857885.851	
201	538+15.62'NB'	18.00' LT	470877.305	857863.716	
274	537+80.63'NB'	18.00' LT	470840.473	857867.966	

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN DETAILS: CTH AB	SHEET 106	E

2

N

END CONSTRUCTION
STA 11+00'LR'
MATCH EXISTING PAVEMENT
SAWCUT REQUIRED

LONG DR

BEGIN SIDEWALK CONSTRUCTION
STA 327+21'MP'
MATCH EXISTING SIDEWALK

STA 329+05.42'MP', 56.00'LT
STA 10+55.65'LR', 55.00'LT

STA 330+53.72'MP', 76.00'LT
STA 10+86.58'LR', 75.00'RT

MILLPOND RD

MATCH LINE 331+60'MP'

324+30.71'MP'
29.75'LT

324+31.09'MP'
17.75'LT

324+32.00'MP'
18.50'RT

323+96.47'MP'
35.70'LT

323+95.00'MP'
18.50'RT

323+98.85'MP'
34.25'RT

BEGIN MULTI-USE PATH CONSTRUCTION
STA 323+99'MP'
MATCH EXISTING SIDEWALK

325+10.31'MP'
32.96'RT

325+62.46'MP'
32.44'RT

326+14.51'MP'
32.00'RT

324+54.65'MP'
33.58'RT

BEGIN ROAD CONSTRUCTION
STA 327+15.00'MP'
MATCH EXISTING PAVEMENT
MATCH EXISTING CURB & GUTTER
SAWCUT REQUIRED

SLOPE INTERCEPT (TYP)

329+10.00'MP'
32.00'RT

329+41.71'MP'
36.00'RT

329+95.58'MP'
18.00'RT

330+53.72'MP'
16.00'RT

330+24.63'MP'
17.00'RT

R=40.0'

R=60.0'

LEGEND	
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CR01	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CR03	CURB RAMP TYPE 3
CS05	CONCRETE SIDEWALK 5-INCH
DR04	CONCRETE DRIVEWAY, 6-INCH
DR06	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 107	E

2

2

MILLPOND RD

332'MP'

333'MP'

334'MP'

335'MP'

336'MP'

337'MP'

338'MP'

339'MP'

16.0'

16.0'

8.0'

10.0'

AP28

CG07

AP03

MATCH LINE 331+60'MP'

MATCH LINE 339+79'MP'

N

KEYNOTE LEGEND: PLAN DETAILS	
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

SLOPE INTERCEPT (TYP)

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 108	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021200-PD (PLAN DETAILS).DWG PLOT DATE : 4/29/2022 9:30 AM PLOT BY : SEH LAYOUT NAME : 16 PLOT SCALE : 1.0 IN = 50.0 FT

WISDOT/CADDS SHEET 42

2

MATCH LINE 339+79'MP'

340'MP'

16.0'

16.0'

10.0' 8.0'

341'MP'

VAR

16.0'

10.0' 8.0'

342'MP'

342'ME'

MILLPOND RD

343'MP'

343'ME'

VAR

VAR

8.0' 10.0'

AP03

CG07

AP28

CM01

CP09

344'MP'

CS04

344'ME'

CG06

CP09

AP03

CG06

MATCH LINE 44+75'E

VAR

CG06

CG01

45°E'

BEGIN 10.0' CURB TYPE TRANSITION

CG06

CP09

CG18

CP18

17.0'

14.0'

345'MP'

CG23

345'ME'

R=32.0'

R=47.0'

R=65.0'

14.0'

18.0'

CP18

CG18

CG06

AP03

CP09

346'MP'

346'ME'

CS04

CG06

MILLPOND RD

CG06

CG07

CP09

AP28

347

AP28

347'ME

CM01

CP09

AP28

CG07

MATCH LINE 347+00'MP'

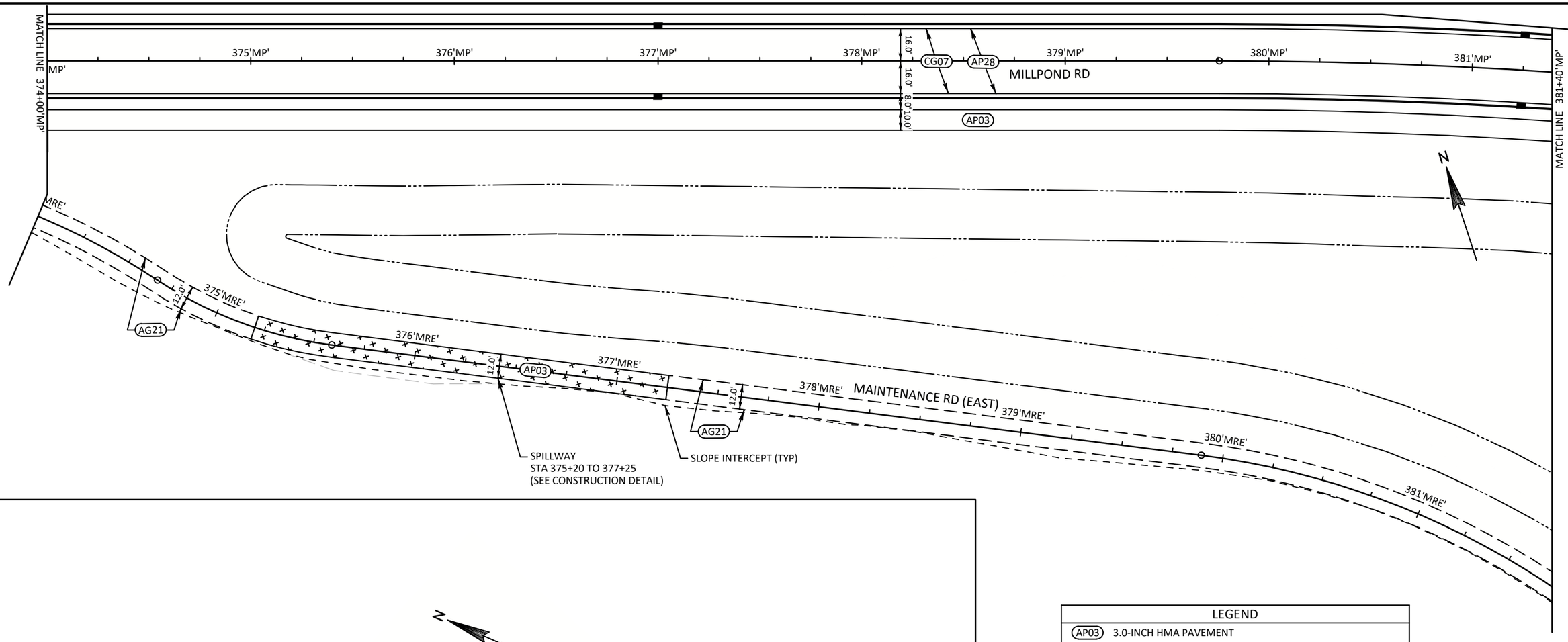
SLOPE INTERCEPT (TYP)

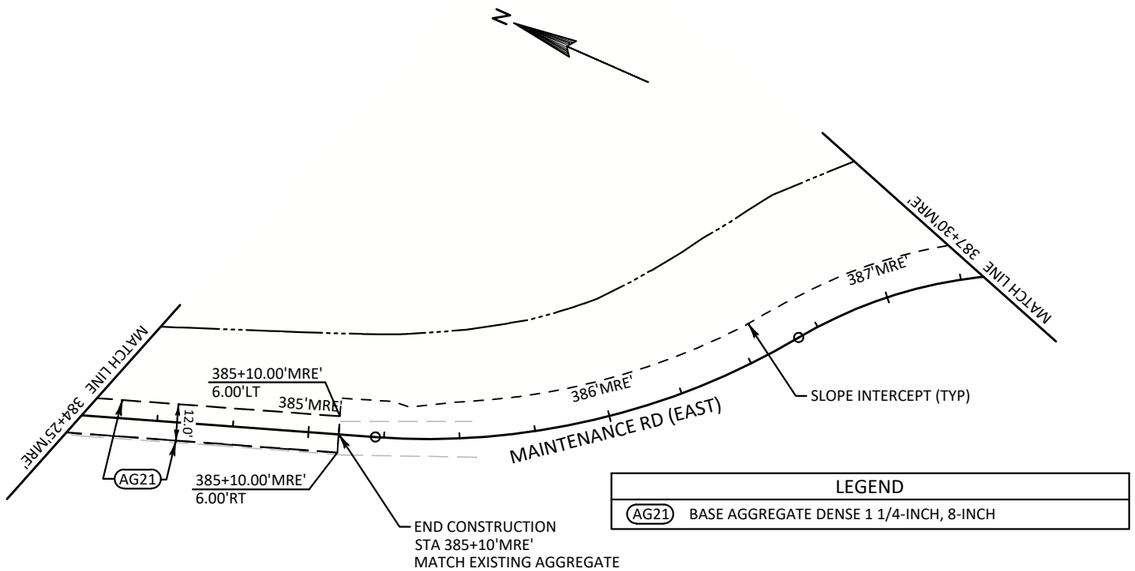
LEGEND	
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG01	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
CG06	CONCRETE CURB & GUTTER 30-INCH TYPE A
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CG18	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
CG23	CONCRETE CURB & GUTTER 18-INCH TYPE A, REVERSE SLOPE
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CP09	CONCRETE PAVEMENT 9-INCH
CP18	CONCRETE TRUCK APRON 12-INCH INCL. COLORING CONCRETE WISDOT)
CS04	CONCRETE SIDEWALK 4-INCH

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

N

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 109	E





LEGEND	
AG21	BASE AGGREGATE DENSE 1 1/4-INCH, 8-INCH

LEGEND	
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 110	E

2

2

MATCH LINE 381+40'MP'

382'MP'

383'MP'

384'MP'

385'MP'

386'MP'

387'MP'

388'MP'

389'MP'

390'MP'

MILLPOND RD

16.0'

16.0'

8.0'

10.0'

CG07

AP28

AP03

SLOPE INTERCEPT (TYP)

N

LEGEND	
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

382'MRE'

383'MRE'

384'MRE'

MAINTENANCE RD (EAST)

12.0'

AG21

MATCH LINE 384+25'MRE'

MATCH LINE 390+30'MP'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 111	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021200-PD (PLAN DETAILS).DWG PLOT DATE : 4/29/2022 9:32 AM PLOT BY : SEH LAYOUT NAME : 19 PLOT SCALE : 1.0 IN = 50.0 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND	
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
DR05	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH

NOTE: SEE GENERAL NOTES FOR HMA TYPE/LAYER DEPTHS

N

MATCH LINE 390+25'MPE'

390+36.83'MPE'
16.00'RT

391'MPW'
391'MPE'

SLOPE INTERCEPT (TYP)

392'MPW'
392'MPE'

MILLPOND RD

VAR
16.0'

VAR

R=605.00'

392+22.85'MPE'
22.96'RT

10.0'
8.0'

393'MPW'
393'MPE'

CG07

AP28

AP03

394+07.22'MPW'
16.00'LT

END CONSTRUCTION PROJECT 3080-01-76
BEGIN CONSTRUCTION PROJECT 3080-01-75
STA 394+07.07'MPE'

394'MPW'
394'MPE'

394+07.00'MPE'
28.70'RT

395'MPW'
395'MPE'

396'MPW'
396'MPE'

S-13-560
(SEE PROJECT 3080-01-75)

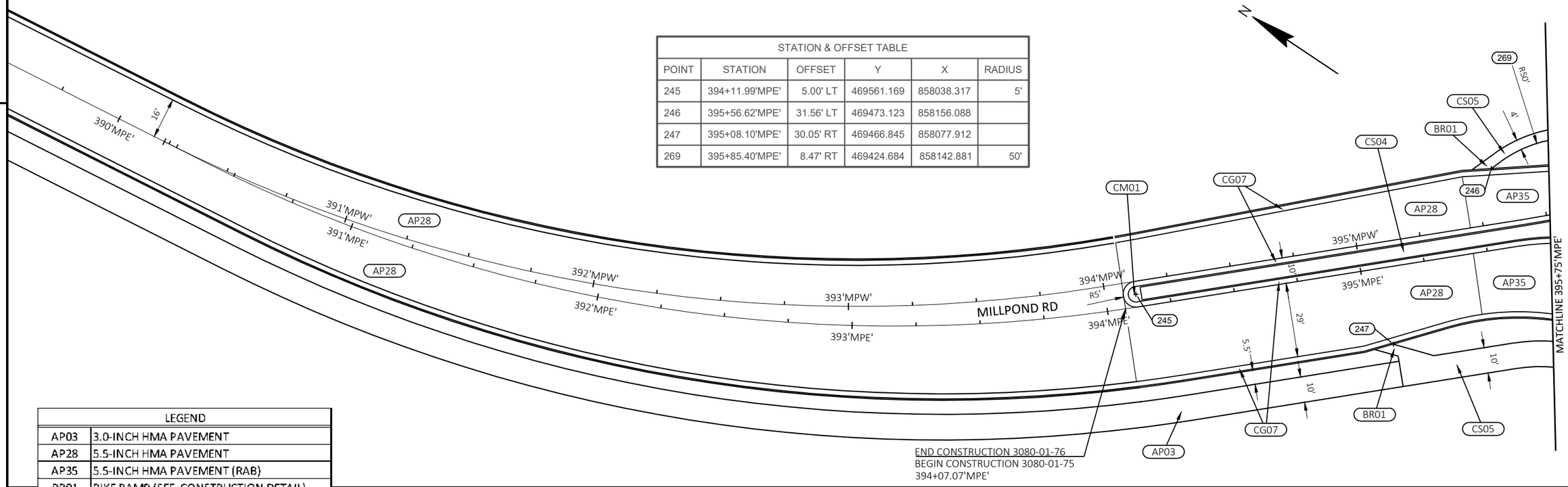
MATCH LINE 387+30'MRE'

388'MRE'

389'MRE'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET 112	E

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
245	394+11.99'MPE'	5.00' LT	469561.169	858038.317	5'
246	395+56.62'MPE'	31.56' LT	469473.123	858156.088	
247	395+08.10'MPE'	30.05' RT	469466.845	858077.912	
269	395+85.40'MPE'	8.47' RT	469424.684	858142.881	50'

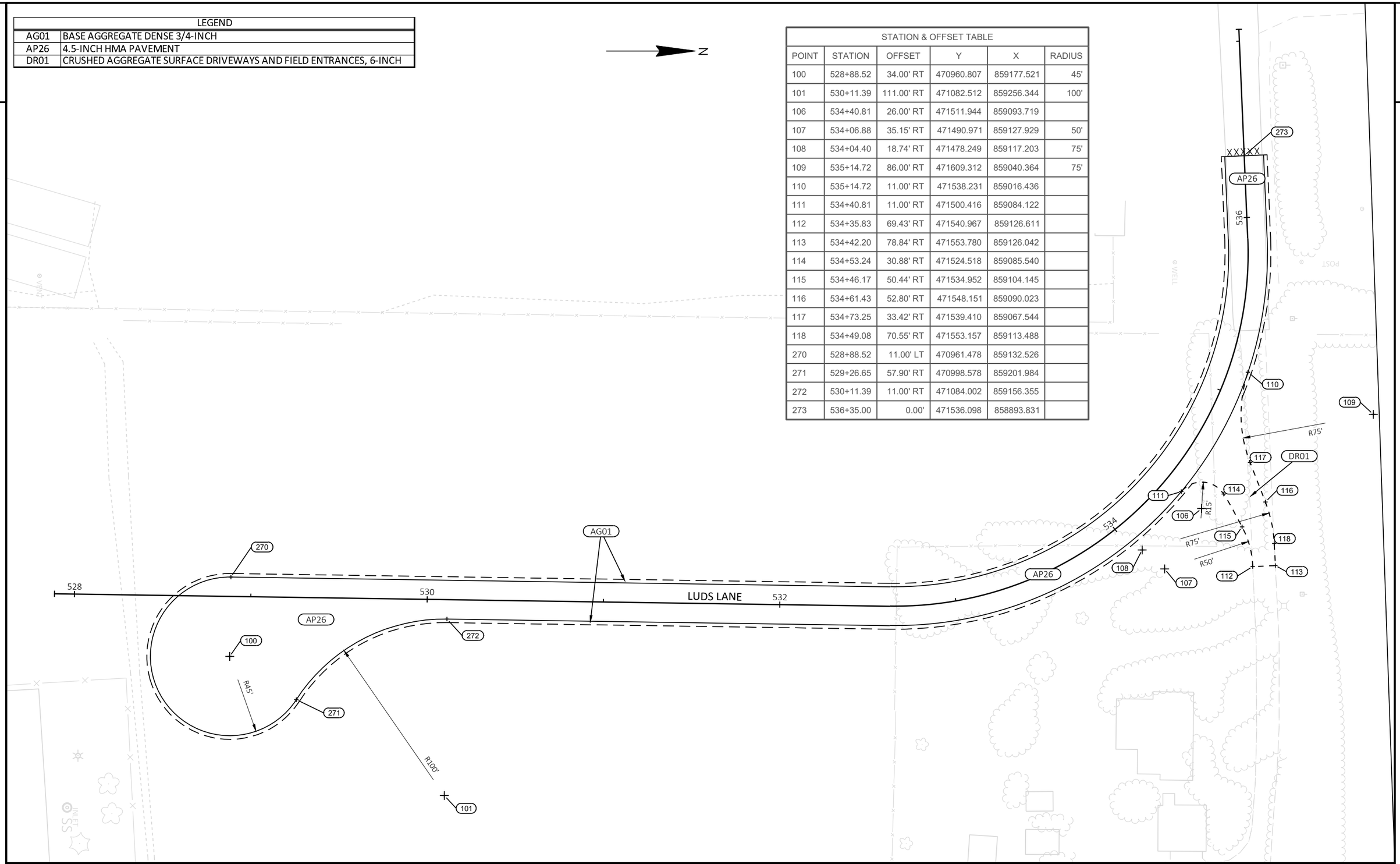


LEGEND	
AP03	3.0-INCH HMA PAVEMENT
AP28	5.5-INCH HMA PAVEMENT
AP35	5.5-INCH HMA PAVEMENT (RAB)
BR01	BIKE RAMP (SEE CONSTRUCTION DETAIL)
CG07	CONCRETE CURB & GUTTER 30-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPE NOSE TYPE 1
CS04	CONCRETE SIDEWALK 4-INCH
CS05	CONCRETE SIDEWALK 5-INCH

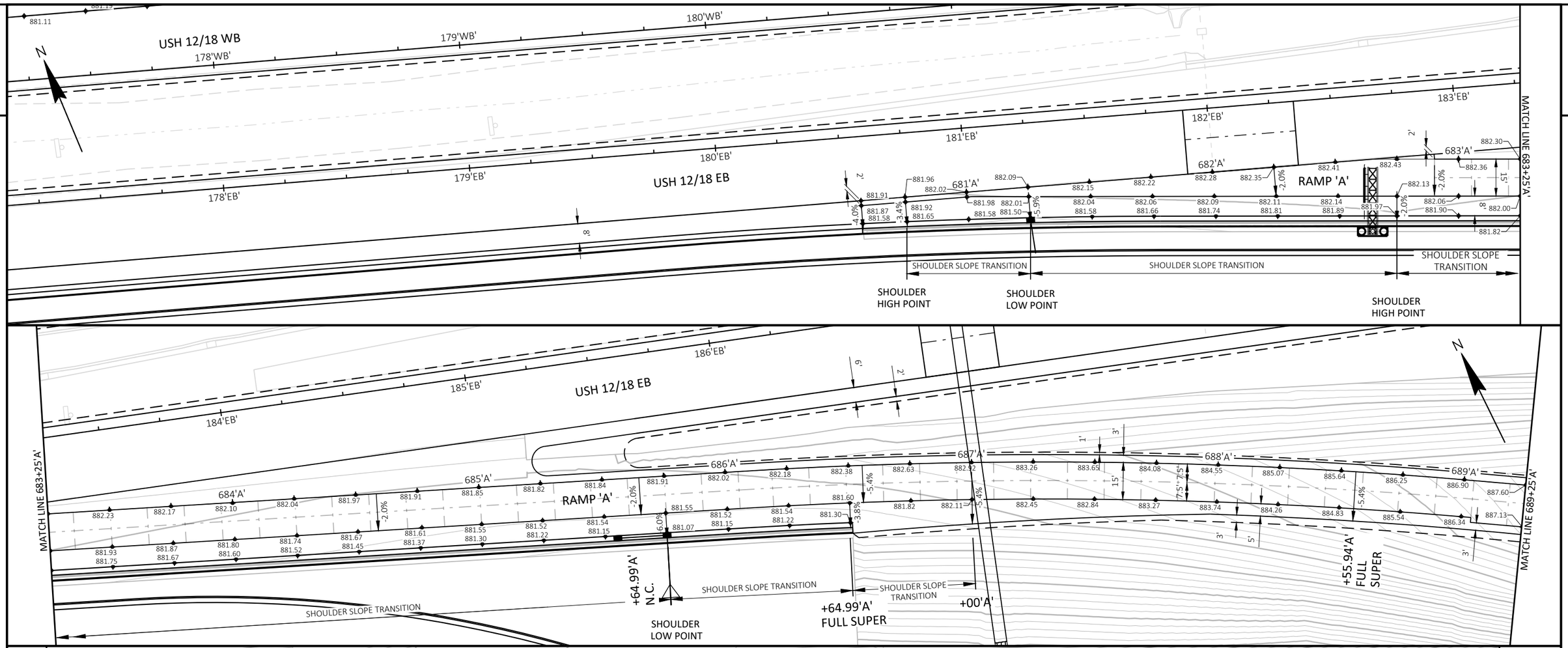
LEGEND	
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP26	4.5-INCH HMA PAVEMENT
DR01	CRUSHED AGGREGATE SURFACE DRIVEWAYS AND FIELD ENTRANCES, 6-INCH

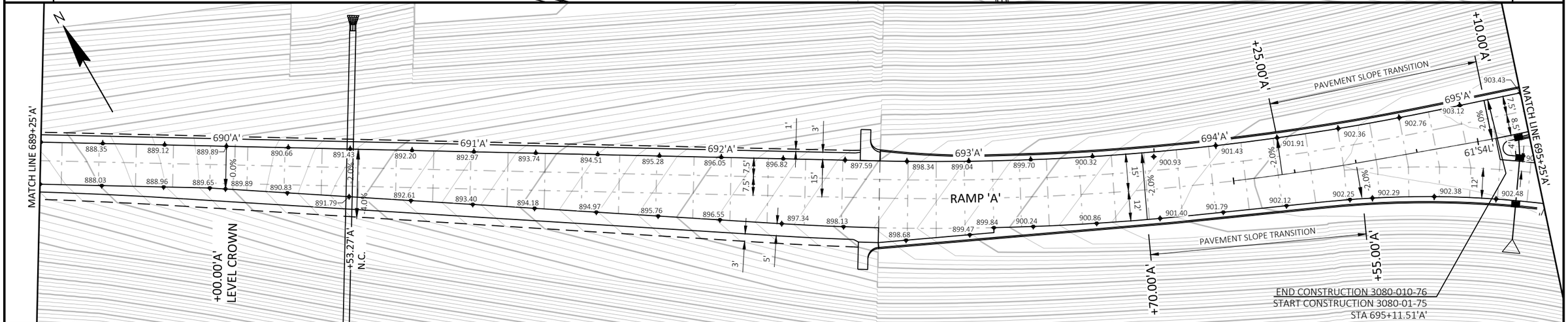
N

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y	X	RADIUS
100	528+88.52	34.00' RT	470960.807	859177.521	45'
101	530+11.39	111.00' RT	471082.512	859256.344	100'
106	534+40.81	26.00' RT	471511.944	859093.719	
107	534+06.88	35.15' RT	471490.971	859127.929	50'
108	534+04.40	18.74' RT	471478.249	859117.203	75'
109	535+14.72	86.00' RT	471609.312	859040.364	75'
110	535+14.72	11.00' RT	471538.231	859016.436	
111	534+40.81	11.00' RT	471500.416	859084.122	
112	534+35.83	69.43' RT	471540.967	859126.611	
113	534+42.20	78.84' RT	471553.780	859126.042	
114	534+53.24	30.88' RT	471524.518	859085.540	
115	534+46.17	50.44' RT	471534.952	859104.145	
116	534+61.43	52.80' RT	471548.151	859090.023	
117	534+73.25	33.42' RT	471539.410	859067.544	
118	534+49.08	70.55' RT	471553.157	859113.488	
270	528+88.52	11.00' LT	470961.478	859132.526	
271	529+26.65	57.90' RT	470998.578	859201.984	
272	530+11.39	11.00' RT	471084.002	859156.355	
273	536+35.00	0.00'	471536.098	858893.831	



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN DETAILS - LUDS LANE	SHEET 114	E





PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PAVING GRADES : RAMP A (EB EXIT)	SHEET 115	E

2

N

MATCH LINE 698+50'B'

699'B' 700'B' 701'B' 702'B' 703'B' 704'B'

902.53 902.21 901.82 901.38 900.87 900.31 899.68 898.99 898.25 897.44 896.59 895.74 894.89 894.04 893.19 892.34 891.49 890.64 889.79 888.94 888.09 887.24 886.39 885.54 884.70

902.23 901.91 901.52 901.08 900.57 900.01 899.38 898.69 897.95 897.14 896.29 895.44 893.74 892.89 892.04 891.19 890.34 889.49 888.64 887.79 886.94 886.09 885.24 884.40

RAMP 'B'

3' 1' 15' 7.5' 7.5' 5' 3'

MATCH LINE 704+50'B'

N

207'EB' 208'EB' 209'EB' 210'EB'

209'WB' 210'WB'

USH 12/18 EB

USH 12/18 WB

6' 2'

+46.00'B' N.C.

+28.67'B' FULL SUPER

MATCH LINE 704+50'B'

705'B' 706'B' 707'B' 708'B' 709'B' 710'B'

883.89 883.11 882.35 881.63 880.93 880.27 879.63 879.03 878.45 877.90 877.38 876.89 876.43 876.00 875.60 875.23 874.89 874.57 874.29 874.03 873.76 873.50 873.23 872.97 872.73

883.59 882.81 882.05 881.33 880.63 879.97 879.33 878.70 877.99 877.30 876.64 876.13 875.67 875.24 874.84 874.46 874.12 873.81 873.52 873.26 873.00 872.47 872.21

-2.0% -4.0% -2.0% -5.1% 15' 7.5' 7.5' 3' 5' -5.1%

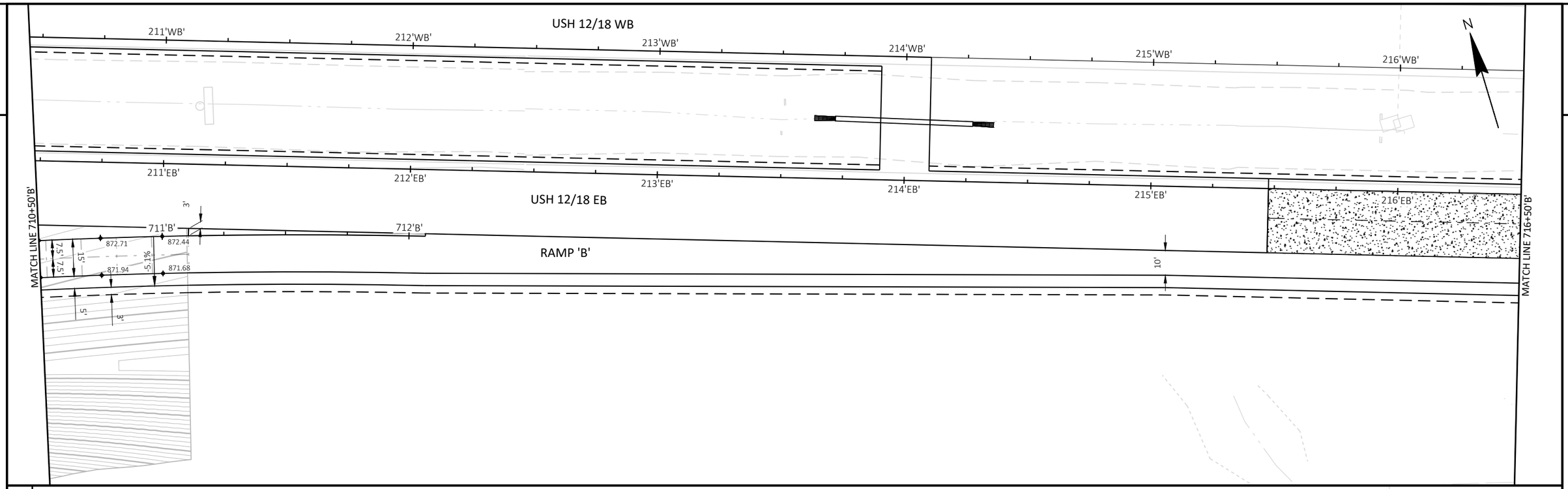
RAMP 'B'

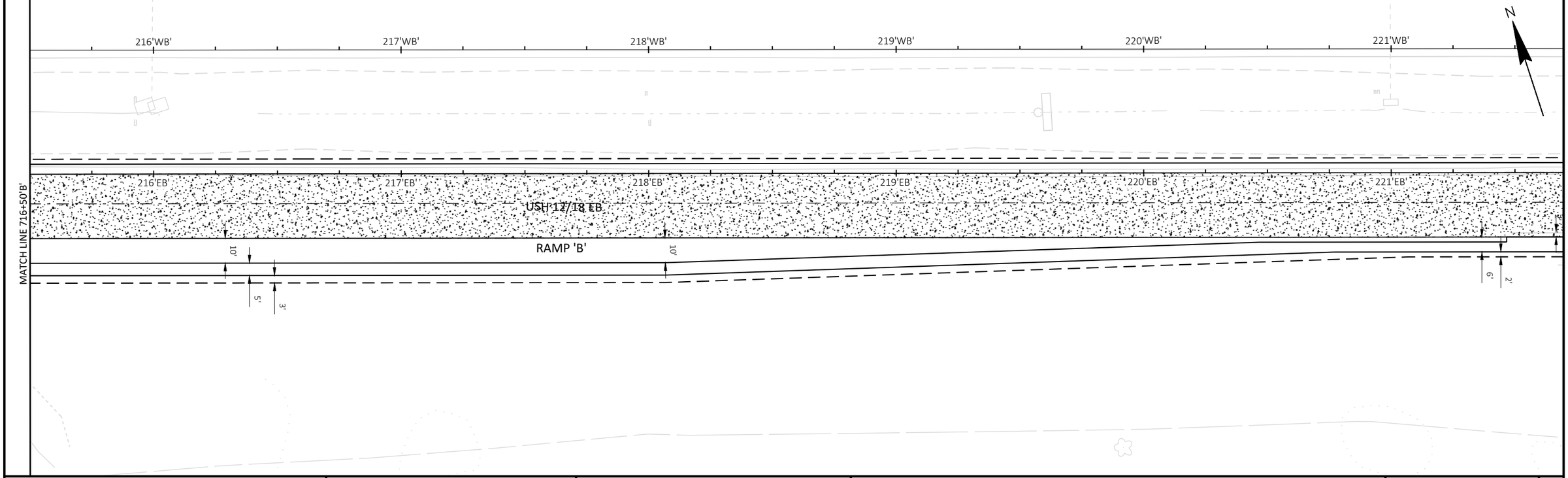
MATCH LINE 710+50'B'

PROJECT NO: 3080-07-76	HWY: USH 12	COUNTY: DANE	PAVING GRADES : RAMP B (EB ENTRANCE)	SHEET 116	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021201_PD (GRADES).DWG
LAYOUT NAME - 021207_pd

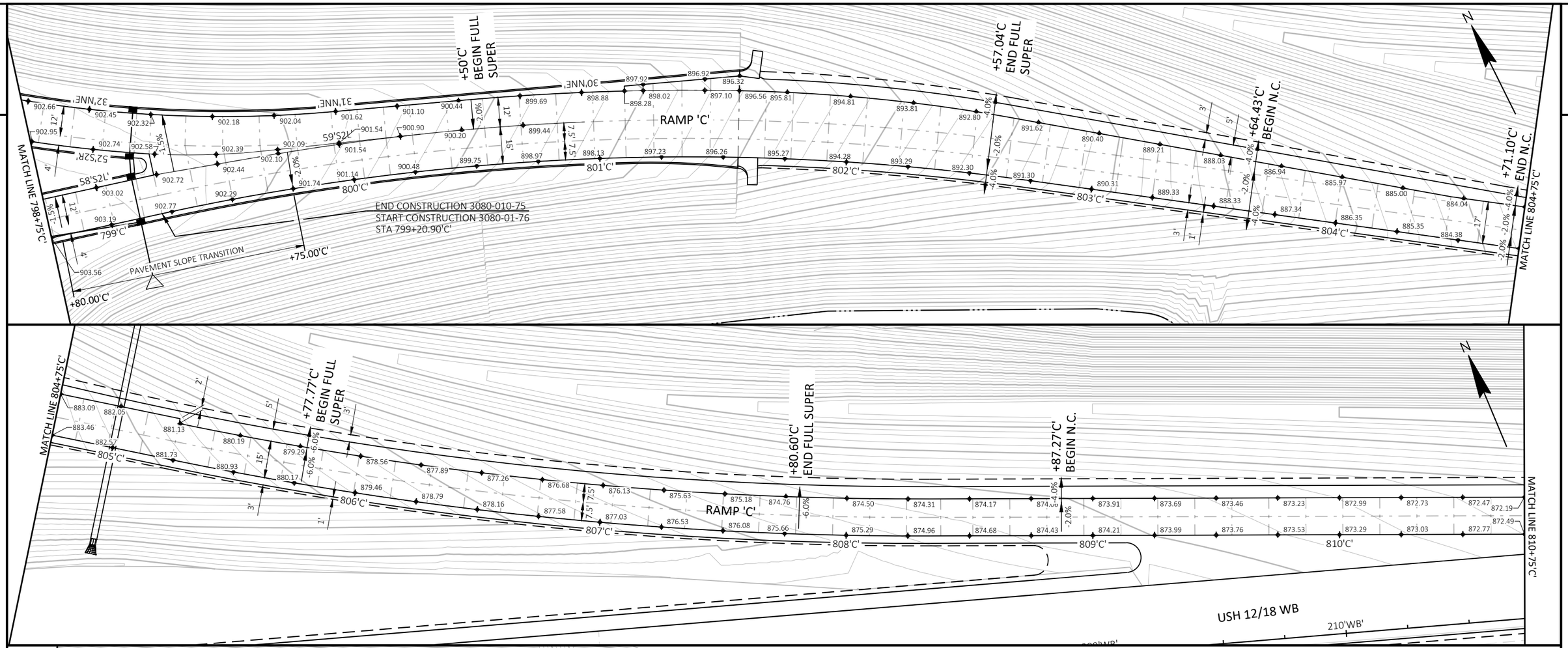
PLOT DATE : 5/26/2022 9:12 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

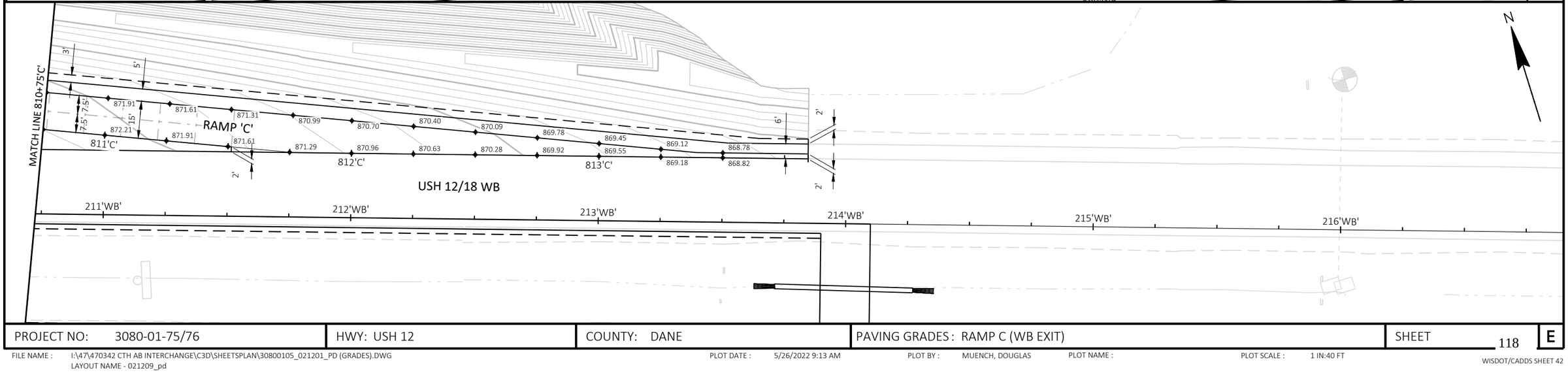




PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PAVING GRADES : RAMP B (EB ENTRANCE)	SHEET 117	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021201_PD (GRADES).DWG
LAYOUT NAME - 021208_pd
PLOT DATE : 5/26/2022 9:13 AM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



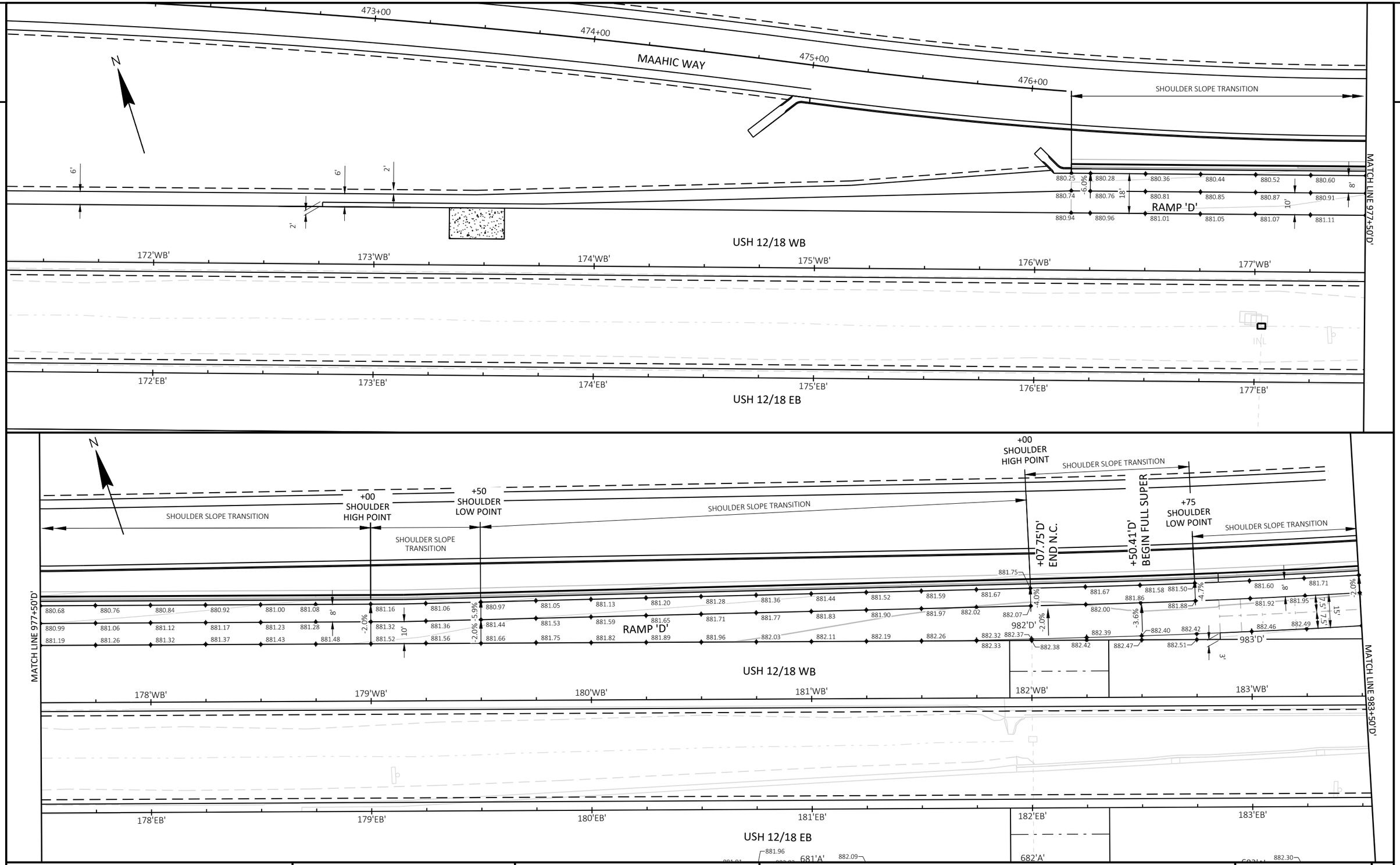


PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PAVING GRADES : RAMP C (WB EXIT)	SHEET 118	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021201_PD (GRADES).DWG
LAYOUT NAME - 021209_pd

PLOT DATE : 5/26/2022 9:13 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

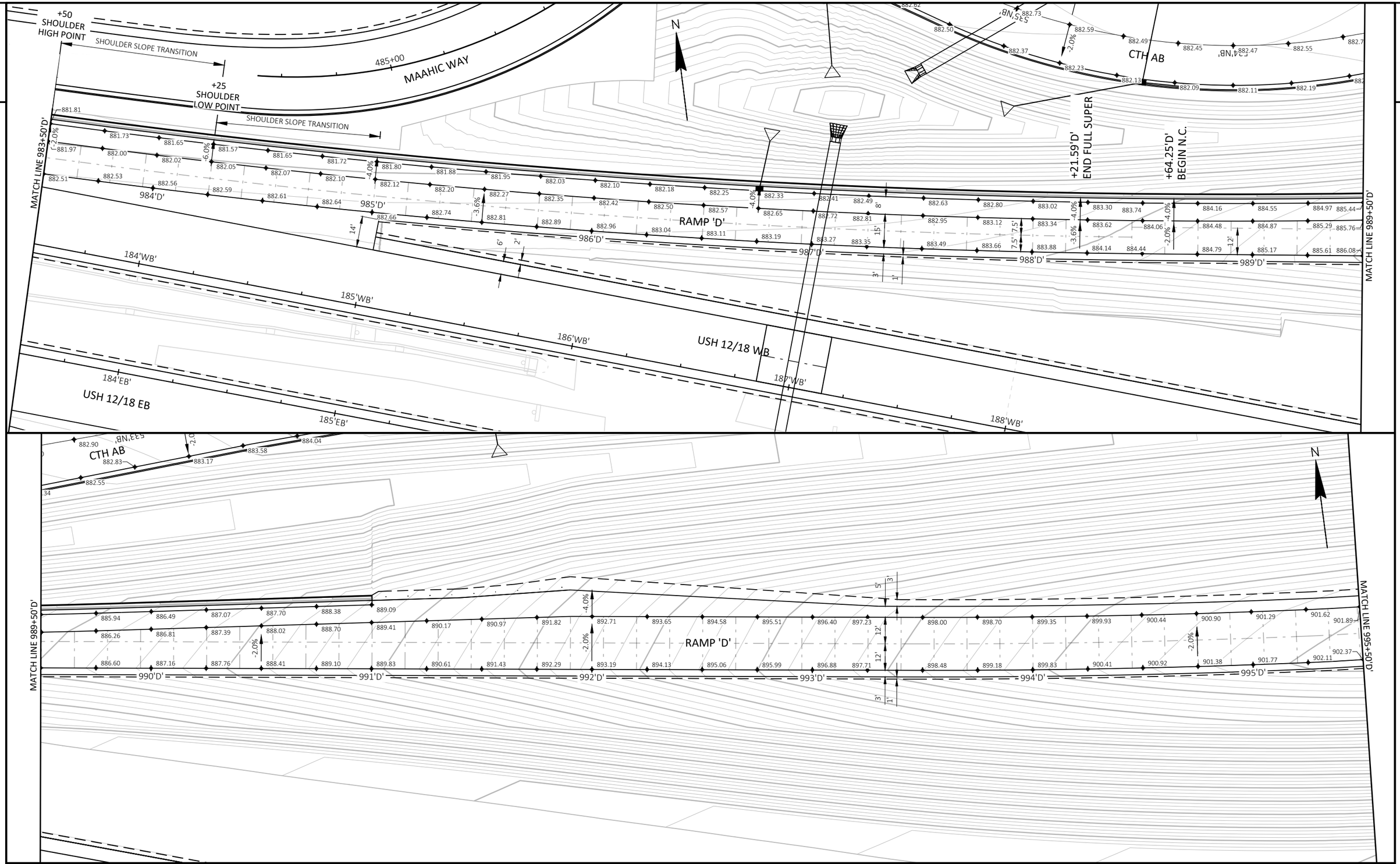
2



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PAVING GRADES: RAMP D (WB ENTRANCE)	SHEET 119	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021201_PD (GRADES).DWG
LAYOUT NAME - 021210_pd

PLOT DATE : 5/26/2022 9:14 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT


+50
SHOULDER
HIGH POINT
SHOULDER SLOPE TRANSITION
+25
SHOULDER
LOW POINT
SHOULDER SLOPE TRANSITION
485+00
MAAHIC WAY
N
CTH AB
+21.59'D'
END FULL SUPER
+64.25'D'
BEGIN N.C.
MATCH LINE 983+50'D'
MATCH LINE 989+50'D'
984'D'
985'D'
986'D'
987'D'
988'D'
989'D'
RAMP 'D'
184'WB'
185'WB'
186'WB'
187'WB'
188'WB'
USH 12/18 WB
184'EB'
185'EB'
USH 12/18 EB
990'D'
991'D'
992'D'
993'D'
994'D'
995'D'
RAMP 'D'
MATCH LINE 989+50'D'
MATCH LINE 995+50'D'

2

N

N91S

+00'SB'

PAVEMENT SLOPE TRANSITION

+28'SB'

XXXXXX

CTH AB SB

CTH AB NB

504'SB'

504'NB'

505'SB'

505'NB'

506'SB'

506'NB'

506'MSE'

503'SB'

503'NB'

502'SB'

502'NB'

501'SB'

501'NB'

500'NB'

+14'NB

PAVEMENT SLOPE TRANSITION

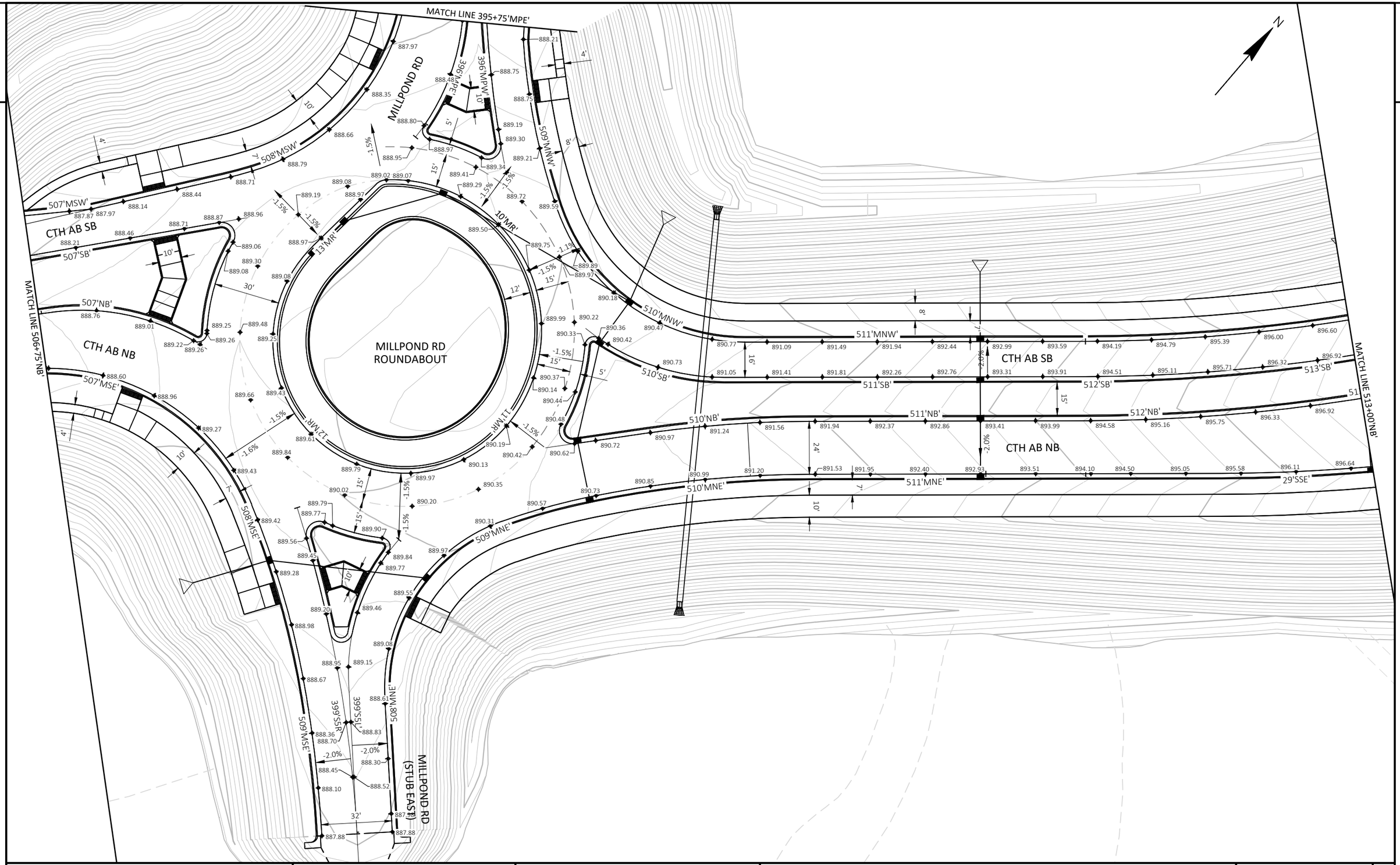
XXXXXXXXXXXX

MATCH LINE 506+75'NB'

-2.0%

-2.0%

-2.0%


MATCH LINE 395+75'MPE'
MILLPOND RD
396'MPW'
396'MPE'
505'MNW'
508'MSW'
507'MSW'
CTH AB SB
507'SB'
507'NB'
CTH AB NB
507'MSE'
MILLPOND RD ROUNDABOUT
13'MR'
10'MR'
12'MR'
11'MR'
510'MNW'
511'MNW'
510'SB'
511'SB'
512'SB'
513'SB'
510'NB'
511'NB'
512'NB'
CTH AB SB
CTH AB NB
510'MNE'
511'MNE'
29'SSE'
509'MNE'
508'MSE'
509'MSE'
399'SSR'
399'SSL'
508'MNE'
MILLPOND RD (STUB EAST)
MATCH LINE 506+75'NB'
MATCH LINE 513+00'NB'
N

2

2

MATCH LINE 695+25'A'

MATCH LINE 513+00'NB'

CTH AB SB

CTH AB NB

RAMP 'A'

RAMP 'B'

SOUTH RAMP ROUNDABOUT

USH 12/18 EB

MATCH LINE 519+50'NB'

CTH AB SB

CTH AB NB

4' MEDIAN

STRUCTURE B-13-893

END CONSTRUCTION 3080-010-75
START CONSTRUCTION 3080-01-76
STA 698+25.93'B'

MATCH LINE 698+50'B'

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PAVING GRADES : CTH AB	SHEET 123	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021201_PD (GRADES).DWG
LAYOUT NAME - 021203_pd

PLOT DATE : 5/26/2022 2:44 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

MATCH LINE 995+50'D'

MATCH LINE 527+00'NB'

MATCH LINE 519+50'NB'

MATCH LINE 798+75'C'

RAMP 'D'

RAMP 'C'

END CONSTRUCTION 3080-010-76
START CONSTRUCTION 3080-01-75
STA 996+03.31'D'

STRUCTURE
B-13-893

NORTH RAMP
ROUNDABOUT

CTH AB SB

CTH AB NB

USH 12/18 WB

520'NB'

520'SB'

4' MEDIAN

521'SB'

521'NB'

524'SB'

524'NB'

525'NB'

525'SB'

20'NSW'

21'NSW'

22'NSW'

12'NRR'

11'NRR'

13'NRR'

10'NSE'

11'NSE'

41'NNW'

42'NNW'

61'S1L'

51'S1R'

52'S1R'

53'S2R'

34'NNE'

35'NNE'

36'NNE'

37'NNE'

33'NNE'

196'WB'

197'WB'

199'WB'

DIRT PILE

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PAVING GRADES : CTH AB	SHEET 124	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021201_PD (GRADES).DWG
LAYOUT NAME - 021204_pd

PLOT DATE : 5/26/2022 2:45 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

MATCH LINE 527+00'NB'

MATCH LINE 533+00'NB'

43'NNW'

44'NNW'

45'NNW'

CTH AB

528'NB'

529'NB'

530'NB'

531'NB'

532'NB'

533

N

RAMP 'D'

+21.59'D'
END FULL SUPER

+64.25'D'
BEGIN N.C.

534'NB'

535'NB'

536'NB'

537'NB'

538'NB'

539'NB'

XXXX

260'RSF

260'RNW'

MAAHIC WAY

END CONSTRUCTION 3080-010-76
START CONSTRUCTION 3080-01-75
STA 486+21.25'LD'

MATCH LINE 533+00'NB'

N

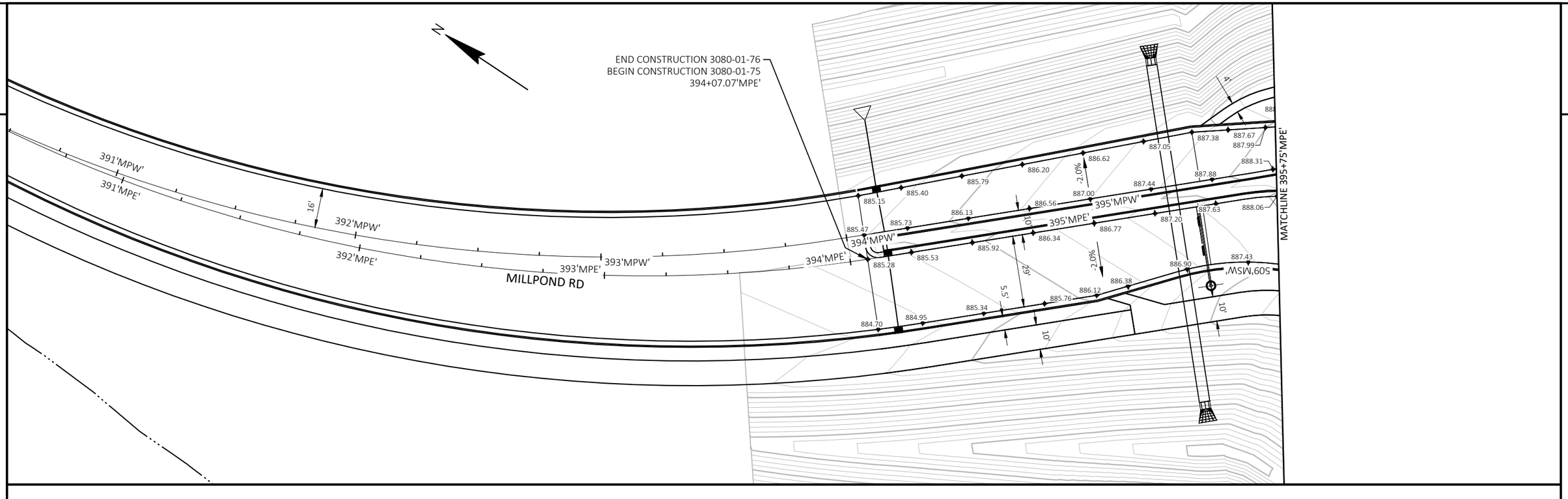
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PAVING GRADES : CTH AB	SHEET 125	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021201_PD (GRADES).DWG
LAYOUT NAME - 021205_pd

PLOT DATE : 12/28/2021 9:29 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PAVING GRADES : MILLPOND ROAD	SHEET 126	E

2

N

142'EB' 143'EB' 144'EB' 145'EB' 146'EB' 147'EB' 148'EB' 149'EB'

USH 12/18 EB

EB EXIT RAMP

CR RAMP E

CR NE QUAD

CR NW QUAD

CR SOUTH QUAD

SIDEWALK SOUTH QUAD

CROWN LINE

GOLF SE QUAD

GOLF SW QUAD

MILLPOND RD

MATCH EXISTING GRADE

MATCH EXISTING GRADE

9'GC'

11'MI

12'MI

6.0'

12.0'

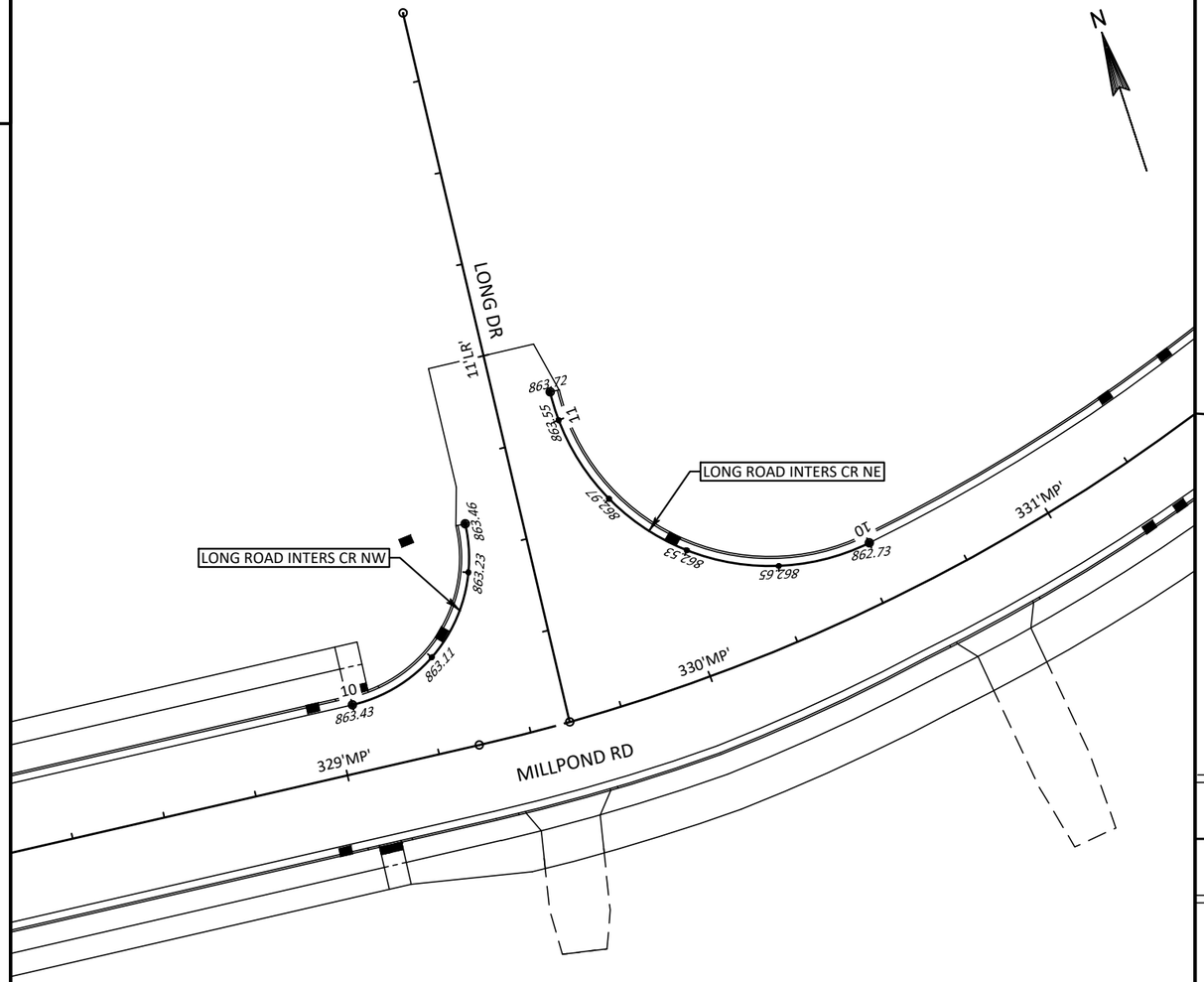
15.0'

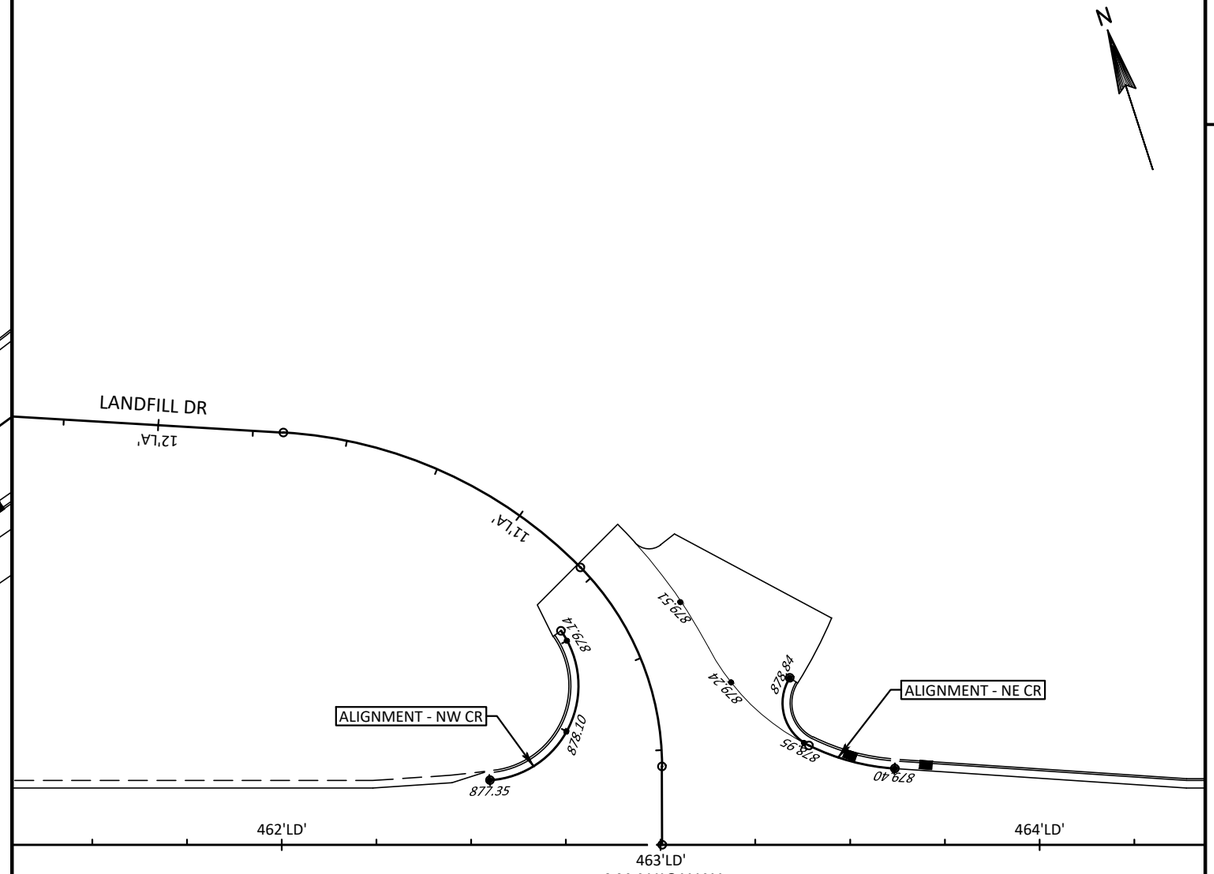
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PAVING GRADES	SHEET 127 E

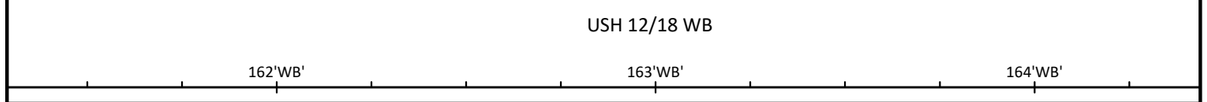
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021200-PD (PAVING DETAILS).DWG PLOT DATE : 3/10/2022 7:27 AM PLOT BY : SEH LAYOUT NAME : 01 PLOT SCALE : 1.0 IN = 50.0 FT

WISDOT/CADDS SHEET 42

2







PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PAVING GRADES	SHEET 128	E

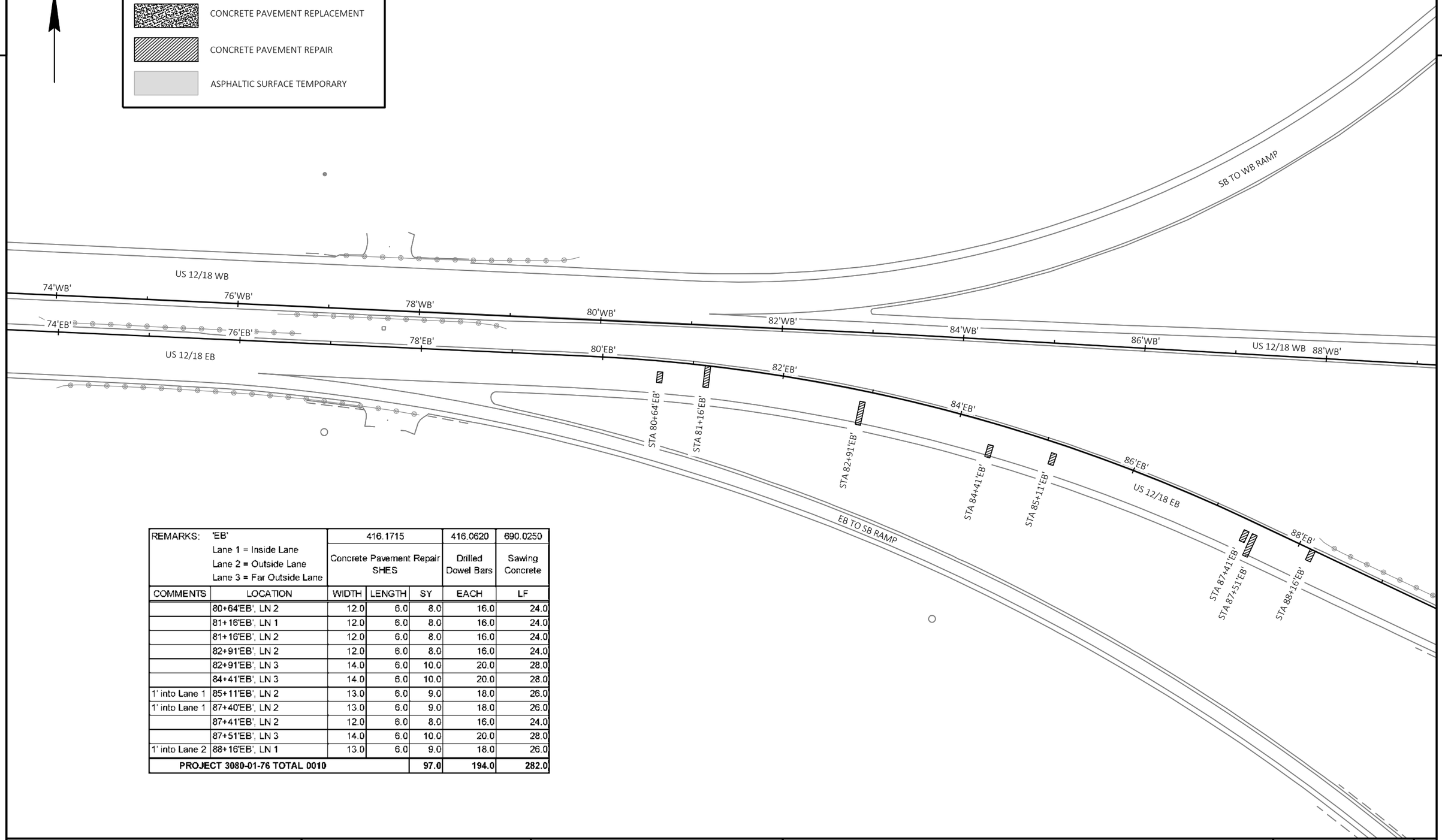
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021200-PD (PAVING DETAILS).DWG
PLOT DATE : 5/25/2022 12:51 PM
PLOT BY : SEH
LAYOUT NAME : 02
PLOT SCALE : 1.0 IN = 40.0 FT
WISDOT/CADDS SHEET 42

2

N

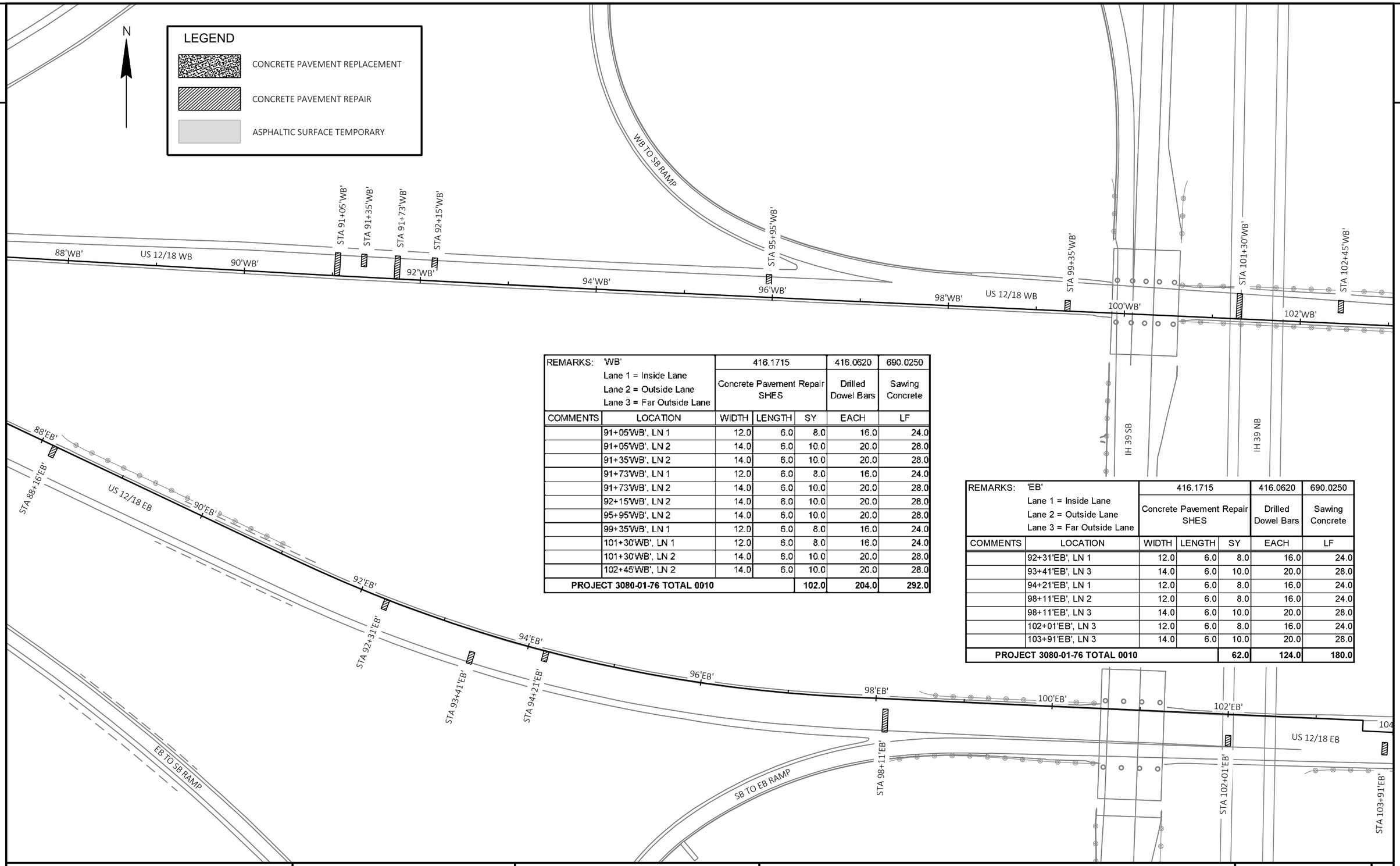
LEGEND

- CONCRETE PAVEMENT REPLACEMENT
- CONCRETE PAVEMENT REPAIR
- ASPHALTIC SURFACE TEMPORARY



REMARKS: 'EB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1715 Concrete Pavement Repair SHES			416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete
COMMENTS	LOCATION	WIDTH	LENGTH	SY	EACH	LF
	80+64'EB', LN 2	12.0	6.0	8.0	16.0	24.0
	81+16'EB', LN 1	12.0	6.0	8.0	16.0	24.0
	81+16'EB', LN 2	12.0	6.0	8.0	16.0	24.0
	82+91'EB', LN 2	12.0	6.0	8.0	16.0	24.0
	82+91'EB', LN 3	14.0	6.0	10.0	20.0	28.0
	84+41'EB', LN 3	14.0	6.0	10.0	20.0	28.0
1' into Lane 1	85+11'EB', LN 2	13.0	6.0	9.0	18.0	26.0
1' into Lane 1	87+40'EB', LN 2	13.0	6.0	9.0	18.0	26.0
	87+41'EB', LN 2	12.0	6.0	8.0	16.0	24.0
	87+51'EB', LN 3	14.0	6.0	10.0	20.0	28.0
1' into Lane 2	88+16'EB', LN 1	13.0	6.0	9.0	18.0	26.0
PROJECT 3080-01-76 TOTAL 0010				**97.0**	**194.0**	**282.0**

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONCRETE PAVEMENT REPLACEMENT & REPAIR	SHEET 129	E

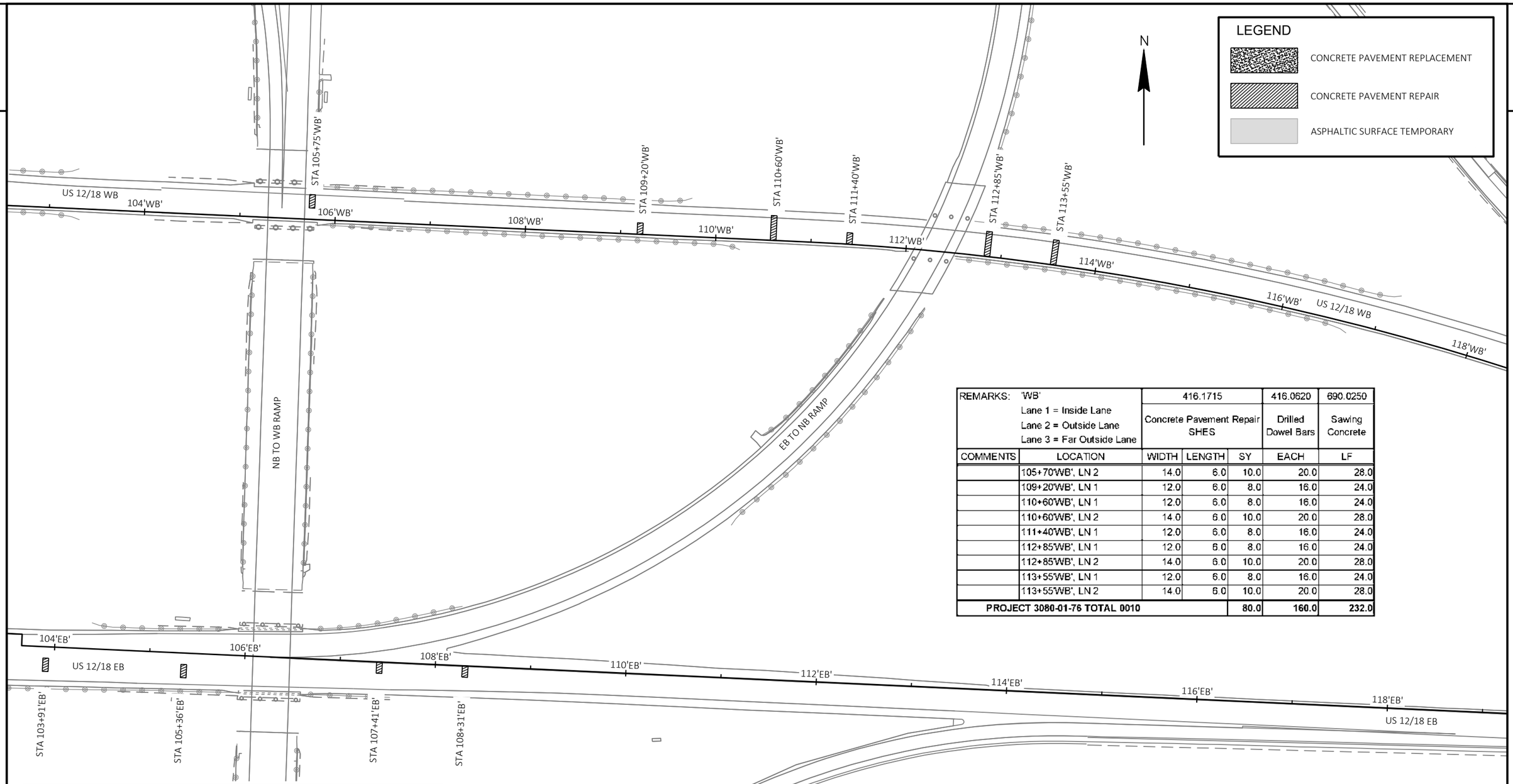


REMARKS: 'WB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1715 Concrete Pavement Repair SHES			416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete
COMMENTS	LOCATION	WIDTH	LENGTH	SY	EACH	LF
	91+05'WB', LN 1	12.0	6.0	8.0	16.0	24.0
	91+05'WB', LN 2	14.0	6.0	10.0	20.0	28.0
	91+35'WB', LN 2	14.0	6.0	10.0	20.0	28.0
	91+73'WB', LN 1	12.0	6.0	8.0	16.0	24.0
	91+73'WB', LN 2	14.0	6.0	10.0	20.0	28.0
	92+15'WB', LN 2	14.0	6.0	10.0	20.0	28.0
	95+95'WB', LN 2	14.0	6.0	10.0	20.0	28.0
	99+35'WB', LN 1	12.0	6.0	8.0	16.0	24.0
	101+30'WB', LN 1	12.0	6.0	8.0	16.0	24.0
	101+30'WB', LN 2	14.0	6.0	10.0	20.0	28.0
	102+45'WB', LN 2	14.0	6.0	10.0	20.0	28.0
PROJECT 3080-01-76 TOTAL 0010				**102.0**	**204.0**	**292.0**

REMARKS: 'EB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1715 Concrete Pavement Repair SHES			416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete
COMMENTS	LOCATION	WIDTH	LENGTH	SY	EACH	LF
	92+31'EB', LN 1	12.0	6.0	8.0	16.0	24.0
	93+41'EB', LN 3	14.0	6.0	10.0	20.0	28.0
	94+21'EB', LN 1	12.0	6.0	8.0	16.0	24.0
	98+11'EB', LN 2	12.0	6.0	8.0	16.0	24.0
	98+11'EB', LN 3	14.0	6.0	10.0	20.0	28.0
	102+01'EB', LN 3	12.0	6.0	8.0	16.0	24.0
	103+91'EB', LN 3	14.0	6.0	10.0	20.0	28.0
PROJECT 3080-01-76 TOTAL 0010				**62.0**	**124.0**	**180.0**

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONCRETE PAVEMENT REPLACEMENT & REPAIR	SHEET 130	E

2



REMARKS: 'WB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1715 Concrete Pavement Repair SHES			416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete
COMMENTS	LOCATION	WIDTH	LENGTH	SY	EACH	LF
	105+70'WB', LN 2	14.0	6.0	10.0	20.0	28.0
	109+20'WB', LN 1	12.0	6.0	8.0	16.0	24.0
	110+60'WB', LN 1	12.0	6.0	8.0	16.0	24.0
	110+60'WB', LN 2	14.0	6.0	10.0	20.0	28.0
	111+40'WB', LN 1	12.0	6.0	8.0	16.0	24.0
	112+85'WB', LN 1	12.0	6.0	8.0	16.0	24.0
	112+85'WB', LN 2	14.0	6.0	10.0	20.0	28.0
	113+55'WB', LN 1	12.0	6.0	8.0	16.0	24.0
	113+55'WB', LN 2	14.0	6.0	10.0	20.0	28.0
PROJECT 3080-01-76 TOTAL 0010				**80.0**	**160.0**	**232.0**

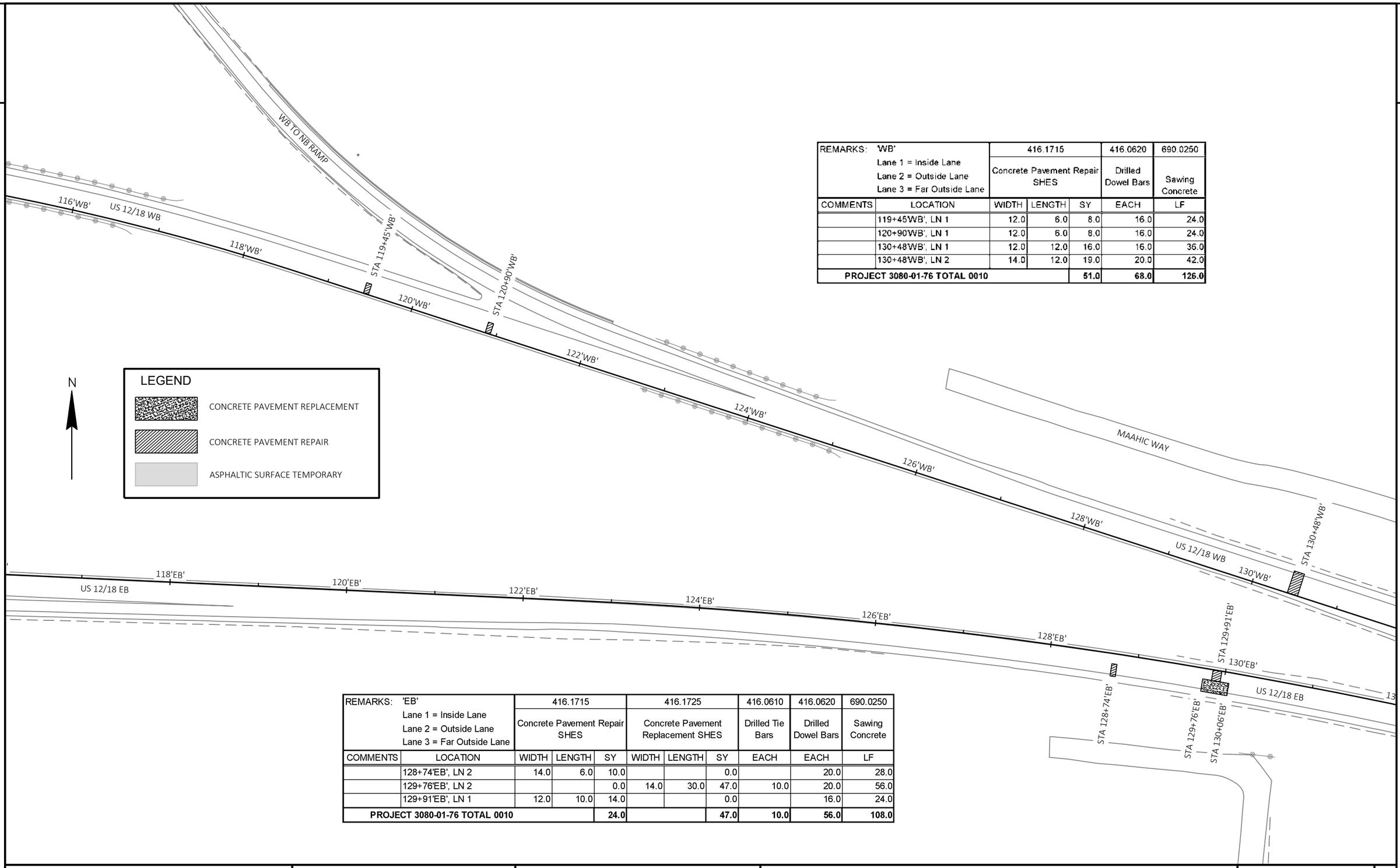
REMARKS: 'EB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1715 Concrete Pavement Repair SHES			416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete
COMMENTS	LOCATION	WIDTH	LENGTH	SY	EACH	LF
	105+36'EB', LN 3	14.0	6.0	10.0	20.0	28.0
	107+41'EB', LN 1	12.0	6.0	8.0	16.0	24.0
	108+31'EB', LN 1	12.0	6.0	8.0	16.0	24.0
PROJECT 3080-01-76 TOTAL 0010				**26.0**	**52.0**	**76.0**

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONCRETE PAVEMENT REPLACEMENT & REPAIR	SHEET 131	E

2

REMARKS: 'WB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1715 Concrete Pavement Repair SHES			416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete
COMMENTS	LOCATION	WIDTH	LENGTH	SY	EACH	LF
	119+45'WB', LN 1	12.0	6.0	8.0	16.0	24.0
	120+90'WB', LN 1	12.0	6.0	8.0	16.0	24.0
	130+48'WB', LN 1	12.0	12.0	16.0	16.0	36.0
	130+48'WB', LN 2	14.0	12.0	19.0	20.0	42.0
PROJECT 3080-01-76 TOTAL 0010				**51.0**	**68.0**	**126.0**

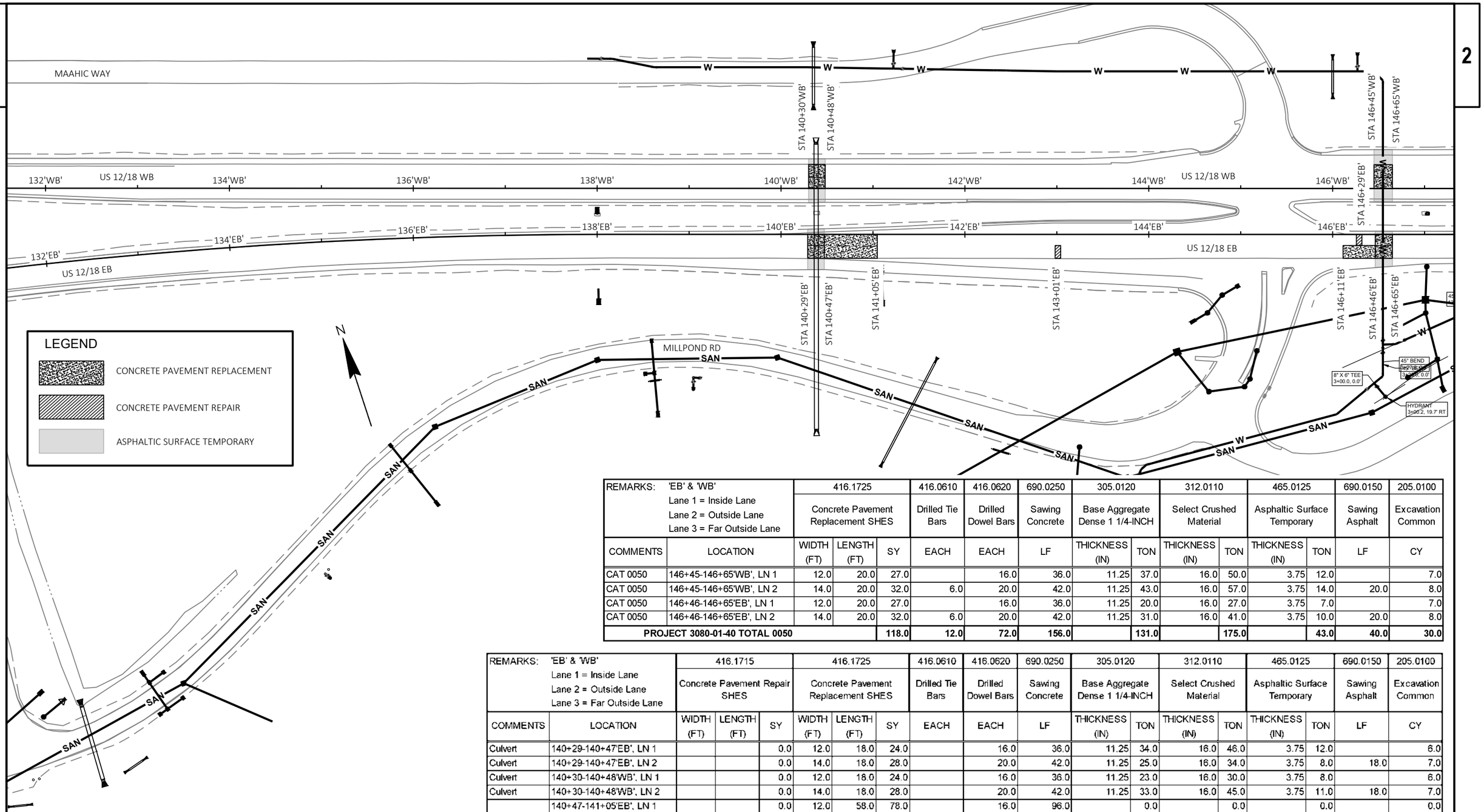
REMARKS: 'EB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1715 Concrete Pavement Repair SHES			416.1725 Concrete Pavement Replacement SHES			416.0610 Drilled Tie Bars	416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete
COMMENTS	LOCATION	WIDTH	LENGTH	SY	WIDTH	LENGTH	SY	EACH	EACH	LF
	128+74'EB', LN 2	14.0	6.0	10.0			0.0		20.0	28.0
	129+76'EB', LN 2			0.0	14.0	30.0	47.0	10.0	20.0	56.0
	129+91'EB', LN 1	12.0	10.0	14.0			0.0		16.0	24.0
PROJECT 3080-01-76 TOTAL 0010				**24.0**			**47.0**	**10.0**	**56.0**	**108.0**



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONCRETE PAVEMENT REPLACEMENT & REPAIR	SHEET 132 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021202_PD (12-18 PV REPAIR).DWG
LAYOUT NAME - PN_04

PLOT DATE : 1/18/2022 1:55 PM PLOT BY : ROSA, AUSTIN PLOT NAME : PLOT SCALE : 1 IN:100 FT



REMARKS: 'EB' & 'WB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1725 Concrete Pavement Replacement SHES			416.0610 Drilled Tie Bars	416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete	305.0120 Base Aggregate Dense 1 1/4-INCH		312.0110 Select Crushed Material		465.0125 Asphaltic Surface Temporary		690.0150 Sawing Asphalt	205.0100 Excavation Common
COMMENTS	LOCATION	WIDTH (FT)	LENGTH (FT)	SY	EACH	EACH	LF	THICKNESS (IN)	TON	THICKNESS (IN)	TON	THICKNESS (IN)	TON	LF	CY
CAT 0050	146+45-146+65'WB', LN 1	12.0	20.0	27.0		16.0	36.0	11.25	37.0	16.0	50.0	3.75	12.0		7.0
CAT 0050	146+45-146+65'WB', LN 2	14.0	20.0	32.0	6.0	20.0	42.0	11.25	43.0	16.0	57.0	3.75	14.0	20.0	8.0
CAT 0050	146+46-146+65'EB', LN 1	12.0	20.0	27.0		16.0	36.0	11.25	20.0	16.0	27.0	3.75	7.0		7.0
CAT 0050	146+46-146+65'EB', LN 2	14.0	20.0	32.0	6.0	20.0	42.0	11.25	31.0	16.0	41.0	3.75	10.0	20.0	8.0
PROJECT 3080-01-40 TOTAL 0050				**118.0**	**12.0**	**72.0**	**156.0**		**131.0**		**175.0**		**43.0**	**40.0**	**30.0**

REMARKS: 'EB' & 'WB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1715 Concrete Pavement Repair SHES			416.1725 Concrete Pavement Replacement SHES			416.0610 Drilled Tie Bars	416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete	305.0120 Base Aggregate Dense 1 1/4-INCH		312.0110 Select Crushed Material		465.0125 Asphaltic Surface Temporary		690.0150 Sawing Asphalt	205.0100 Excavation Common
COMMENTS	LOCATION	WIDTH (FT)	LENGTH (FT)	SY	WIDTH (FT)	LENGTH (FT)	SY	EACH	EACH	LF	THICKNESS (IN)	TON	THICKNESS (IN)	TON	THICKNESS (IN)	TON	LF	CY
Culvert	140+29-140+47'EB', LN 1			0.0	12.0	18.0	24.0		16.0	36.0	11.25	34.0	16.0	46.0	3.75	12.0		6.0
Culvert	140+29-140+47'EB', LN 2			0.0	14.0	18.0	28.0		20.0	42.0	11.25	25.0	16.0	34.0	3.75	8.0	18.0	7.0
Culvert	140+30-140+48'WB', LN 1			0.0	12.0	18.0	24.0		16.0	36.0	11.25	23.0	16.0	30.0	3.75	8.0		6.0
Culvert	140+30-140+48'WB', LN 2			0.0	14.0	18.0	28.0		20.0	42.0	11.25	33.0	16.0	45.0	3.75	11.0	18.0	7.0
	140+47-141+05'EB', LN 1			0.0	12.0	58.0	78.0		16.0	96.0		0.0		0.0		0.0		0.0
	140+47-141+05'EB', LN 2			0.0	14.0	58.0	91.0	19.0	20.0	112.0		0.0		0.0		0.0		0.0
	143+01'EB', LN 2	14.0	6.0	10.0			0.0		20.0	28.0		0.0		0.0		0.0		0.0
	146+11-146+46'EB', LN 2			0.0	14.0	35.0	55.0	11.0	20.0	56.0		0.0		0.0		0.0		0.0
	146+29'EB', LN 1	12.0	6.0	8.0			0.0		16.0	24.0		0.0		0.0		0.0		0.0
PROJECT 3080-01-76 TOTAL 0010				**18.0**			**328.0**	**30.0**	**164.0**	**472.0**		**115.0**		**155.0**		**39.0**	**36.0**	**26.0**

PROJECT NO: 3080-01-40/76	HWY: USH 12	COUNTY: DANE	CONCRETE PAVEMENT REPLACEMENT & REPAIR	SHEET 133	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021202_PD (12-18 PV REPAIR).DWG
LAYOUT NAME - PN_05
PLOT DATE : 1/18/2022 1:55 PM PLOT BY : ROSA, AUSTIN PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

2

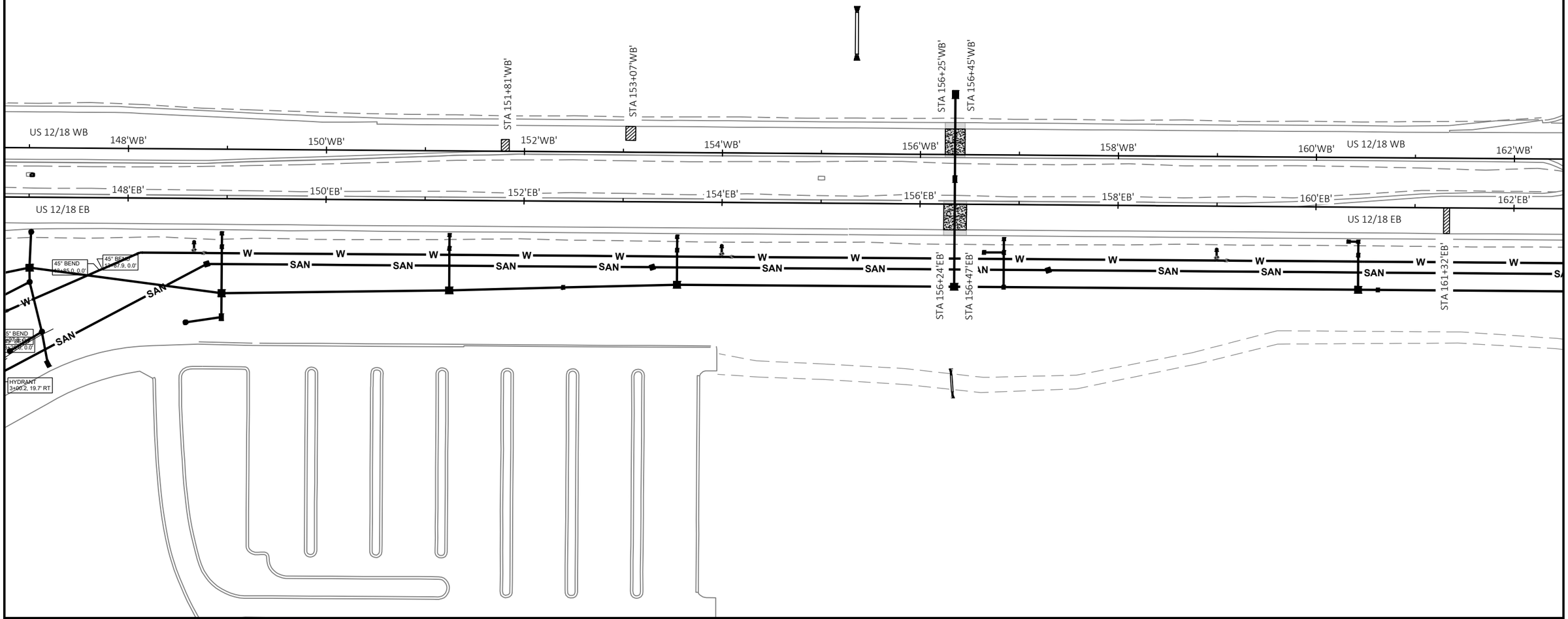
LEGEND

CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR

ASPHALTIC SURFACE TEMPORARY

REMARKS:	'EB' & 'WB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane	416.1715 Concrete Pavement Repair SHES			416.1725 Concrete Pavement Replacement SHES			416.0610 Drilled Tie Bars	416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete	305.0120 Base Aggregate Dense 1 1/4-INCH		312.0110 Select Crushed Material		465.0125 Asphaltic Surface Temporary		690.0150 Sawing Asphalt	205.0100 Excavation Common
COMMENTS	LOCATION	WIDTH (FT)	LENGTH (FT)	SY	WIDTH (FT)	LENGTH (FT)	SY	EACH	EACH	LF	THICKNESS (IN)	TON	THICKNESS (IN)	TON	THICKNESS (IN)	TON	LF	CY
	151+81'WB', LN 1	12.0	8.0	11.0			0.0		16.0	24.0		0.0		0.0		0.0		0.0
	153+07'WB', LN 2	14.0	10.0	16.0			0.0		20.0	28.0		0.0		0.0		0.0		0.0
Storm Sewer	156+24-156+47'EB', LN 1			0.0	12.0	23.0	31.0		16.0	36.0	11.25	25.0	16.0	34.0	3.75	8.0		8.0
Storm Sewer	156+24-156+47'EB', LN 2			0.0	14.0	23.0	36.0	7.0	20.0	42.0	11.25	31.0	16.0	42.0	3.75	11.0	23.0	9.0
Storm Sewer	156+25-156+45'WB', LN 1			0.0	12.0	20.0	27.0		16.0	36.0	11.25	21.0	16.0	28.0	3.75	7.0		7.0
Storm Sewer	156+25-156+45'WB', LN 2			0.0	14.0	20.0	32.0	7.0	20.0	42.0	11.25	28.0	16.0	38.0	3.75	9.0	20.0	8.0
	161+32'EB', LN 1	12.0	6.0	8.0			0.0		16.0	0.0		0.0		0.0		0.0		0.0
	161+32'EB', LN 2	14.0	6.0	10.0			0.0		20.0	0.0		0.0		0.0		0.0		0.0
PROJECT 3080-01-76 TOTAL 0010				**45.0**			**126.0**	**14.0**	**144.0**	**208.0**		**105.0**		**142.0**		**35.0**	**43.0**	**32.0**

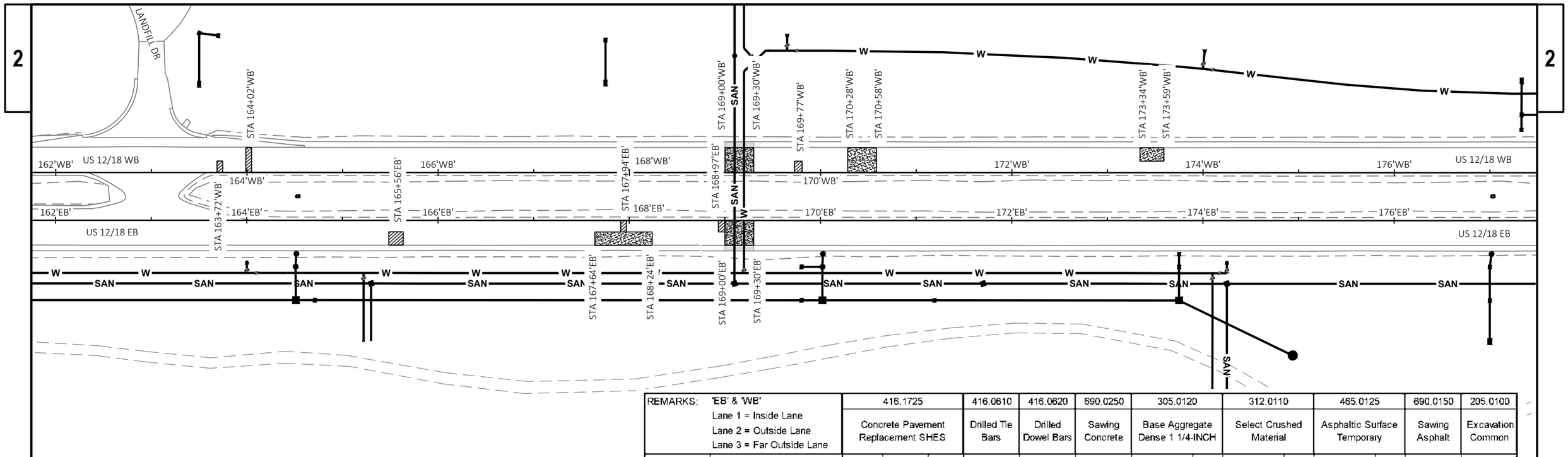


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONCRETE PAVEMENT REPLACEMENT & REPAIR	SHEET 134	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021202_PD (12-18 PV REPAIR).DWG
LAYOUT NAME - PN_06

PLOT DATE : 1/18/2022 1:56 PM PLOT BY : ROSA, AUSTIN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



REMARKS: 'EB' & 'WB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1725 Concrete Pavement Replacement SHES			416.0610 Drilled Tie Bars	416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete	305.0120 Base Aggregate Dense 1 1/4-INCH		312.0110 Select Crushed Material		465.0125 Asphaltic Surface Temporary		690.0150 Sawing Asphalt	205.0100 Excavation Common
COMMENTS	LOCATION	WIDTH (FT)	LENGTH (FT)	SY	EACH	EACH	LF	THICKNESS (IN)	TON	THICKNESS (IN)	TON	THICKNESS (IN)	TON	LF	CY
CAT 0040	169+00-169+15'WB', LN 1	12.0	15.0	20.0		8.0	36.0	11.25	14.0	16.0	19.0	3.75	5.0		5.0
CAT 0040	169+00-169+15'WB', LN 2	14.0	15.0	24.0	5.0	10.0	42.0	11.25	20.0	16.0	27.0	3.75	7.0	15.0	6.0
CAT 0040	169+00-169+15'EB', LN 1	12.0	15.0	20.0		8.0	36.0	11.25	13.0	16.0	17.0	3.75	4.0		5.0
CAT 0040	169+00-169+15'EB', LN 2	14.0	15.0	24.0	5.0	10.0	42.0	11.25	21.0	16.0	28.0	3.75	7.0	15.0	6.0
SUBTOTAL 0040				**88.0**	**10.0**	**36.0**	**156.0**		**68.0**		**91.0**		**23.0**	**30.0**	**22.0**
CAT 0050	169+15-169+30'WB', LN 1	12.0	15.0	20.0		8.0	36.0	11.25	14.0	16.0	19.0	3.75	5.0		5.0
CAT 0050	169+15-169+30'WB', LN 2	14.0	15.0	24.0	5.0	10.0	42.0	11.25	20.0	17.0	29.0	3.75	7.0	15.0	6.0
CAT 0050	169+15-169+30'EB', LN 1	12.0	15.0	20.0		8.0	36.0	11.25	13.0	18.0	19.0	3.75	4.0		5.0
CAT 0050	169+15-169+30'EB', LN 2	14.0	15.0	24.0	5.0	10.0	42.0	11.25	21.0	16.0	28.0	3.75	7.0	15.0	6.0
SUBTOTAL 0050				**88.0**	**10.0**	**36.0**	**156.0**		**68.0**		**95.0**		**23.0**	**30.0**	**22.0**
PROJECT TOTAL 3080-01-40				**176.0**	**20.0**	**72.0**	**312.0**		**136.0**		**186.0**		**46.0**	**60.0**	**44.0**

REMARKS: 'EB' & 'WB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1715 Concrete Pavement Repair SHES			416.1725 Concrete Pavement Replacement SHES			416.0610 Drilled Tie Bars	416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete
COMMENTS	LOCATION	WIDTH	LENGTH	SY	WIDTH	LENGTH	SY	EACH	EACH	LF
	163+72'WB', LN 1	12.0	6.0	8.0			0.0		16.0	24.0
	164+02'WB', LN 1	12.0	6.0	8.0			0.0		16.0	24.0
	164+02'WB', LN 2	14.0	6.0	10.0			0.0		20.0	28.0
	165+56'EB', LN 2	14.0	15.0	24.0			0.0	5.0	20.0	42.0
	167+64-168+24'EB', LN 2			0.0	14.0	60.0	94.0	20.0	20.0	112.0
	167+94'EB', LN 1	12.0	6.0	8.0			0.0		16.0	24.0
	168+97'EB', LN 1	12.0	6.0	8.0			0.0		16.0	24.0
	169+77'WB', LN 1	12.0	8.0	11.0			0.0		16.0	24.0
	170+28-170+58'WB', LN 1			0.0	12.0	30.0	40.0		16.0	48.0
	170+28-170+58'WB', LN 2			0.0	14.0	30.0	47.0	10.0	20.0	56.0
	173+34-173+59'WB', LN 2			0.0	14.0	25.0	39.0	8.0	20.0	42.0
PROJECT 3080-01-76 TOTAL 0010				**77.0**			**220.0**	**43.0**	**196.0**	**448.0**

N

LEGEND

- CONCRETE PAVEMENT REPLACEMENT
- CONCRETE PAVEMENT REPAIR
- ASPHALTIC SURFACE TEMPORARY

2

LEGEND

CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR

ASPHALTIC SURFACE TEMPORARY

N

REMARKS: 'EB' & 'WB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1725 Concrete Pavement Replacement SHES			416.0610 Drilled Tie Bars	416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete	305.0120 Base Aggregate Dense 1 1/4-INCH		312.0110 Select Crushed Material		465.0125 Asphaltic Surface Temporary		690.0150 Sawing Asphalt	205.0100 Excavation Common
COMMENTS	LOCATION	WIDTH (FT)	LENGTH (FT)	SY	EACH	EACH	LF	THICKNESS (IN)	TON	THICKNESS (IN)	TON	THICKNESS (IN)	TON	LF	CY
CAT 0040	182+15-182+35'WB', LN 1	12.0	20.0	27.0		8.0	36.0	11.25	29.0	16.0	39.0	3.75	10.0		7.0
CAT 0040	182+15-182+35'WB', LN 2	14.0	20.0	32.0	6.0	10.0	42.0	11.25	28.0	16.0	38.0	3.75	9.0	20.0	8.0
CAT 0040	182+15-182+35'EB', LN 1	12.0	20.0	27.0		8.0	36.0	11.25	46.0	16.0	62.0	3.75	15.0		7.0
CAT 0040	182+15-182+35'EB', LN 2	14.0	20.0	32.0	6.0	10.0	42.0	11.25	52.0	16.0	70.0	3.75	17.0	20.0	8.0
PROJECT 3080-01-40 TOTAL 0040				**118.0**	**12.0**	**36.0**	**156.0**		**155.0**		**209.0**		**51.0**	**40.0**	**30.0**

REMARKS: 'EB' & 'WB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1725 Concrete Pavement Replacement SHES			416.0610 Drilled Tie Bars	416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete	305.0120 Base Aggregate Dense 1 1/4-INCH		312.0110 Select Crushed Material		465.0125 Asphaltic Surface Temporary		690.0150 Sawing Asphalt	205.0100 Excavation Common
COMMENTS	LOCATION	WIDTH (FT)	LENGTH (FT)	SY	EACH	EACH	LF	THICKNESS (IN)	TON	THICKNESS (IN)	TON	THICKNESS (IN)	TON	LF	CY
Storm Sewer	181+90-182+15'WB', LN 1	12.0	25.0	34.0		8.0	36.0	11.25	36.0	16.0	49.0	3.75	12.0		9.0
Storm Sewer	181+90-182+15'WB', LN 2	14.0	25.0	39.0	8.0	10.0	42.0	11.25	35.0	16.0	47.0	3.75	12.0	25.0	10.0
Storm Sewer	181+90-182+15'EB', LN 1	12.0	25.0	34.0		8.0	36.0	11.25	56.0	16.0	75.0	3.75	19.0		9.0
Storm Sewer	181+90-182+15'EB', LN 2	14.0	25.0	39.0	8.0	10.0	42.0	11.25	62.0	16.0	84.0	3.75	21.0	25.0	10.0
Culvert	186+85-187+15'WB', LN 1	12.0	30.0	40.0		16.0	48.0	11.25	38.0	16.0	51.0	3.75	13.0		10.0
Culvert	186+85-187+15'WB', LN 2	14.0	30.0	47.0	10.0	20.0	56.0	11.25	42.0	16.0	57.0	3.75	14.0	30.0	12.0
Culvert	186+85-187+15'EB', LN 1	12.0	30.0	40.0		16.0	48.0	11.25	33.0	16.0	45.0	3.75	11.0		10.0
Culvert	186+85-187+15'EB', LN 2	14.0	30.0	47.0	10.0	20.0	56.0	11.25	42.0	16.0	57.0	3.75	14.0	30.0	12.0
PROJECT 3080-01-76 TOTAL 0010				**320.0**	**36.0**	**108.0**	**364.0**		**344.0**		**465.0**		**116.0**	**110.0**	**82.0**

W

SAN

STA 181+90'WB'

STA 182+15'WB'

STA 182+35'WB'

STA 186+85'WB'

STA 187+15'WB'

176'WB'

US 12/18 WB

178'WB'

180'WB'

182'WB'

184'WB'

186'WB'

188'WB'

US 12/18 WB

190'WB'

176'EB'

178'EB'

180'EB'

182'EB'

184'EB'

186'EB'

188'EB'

190'EB'

US 12/18 EB

US 12/18 EB

STA 181+90'EB'

STA 182+15'EB'

STA 182+35'EB'

STA 186+85'EB'

STA 187+15'EB'

PROJECT NO: 3080-01-40/76	HWY: USH 12	COUNTY: DANE	CONCRETE PAVEMENT REPLACEMENT & REPAIR	SHEET 136	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021202_PD (12-18 PV REPAIR).DWG
LAYOUT NAME - PN_08

PLOT DATE : 1/18/2022 1:56 PM PLOT BY : ROSA, AUSTIN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

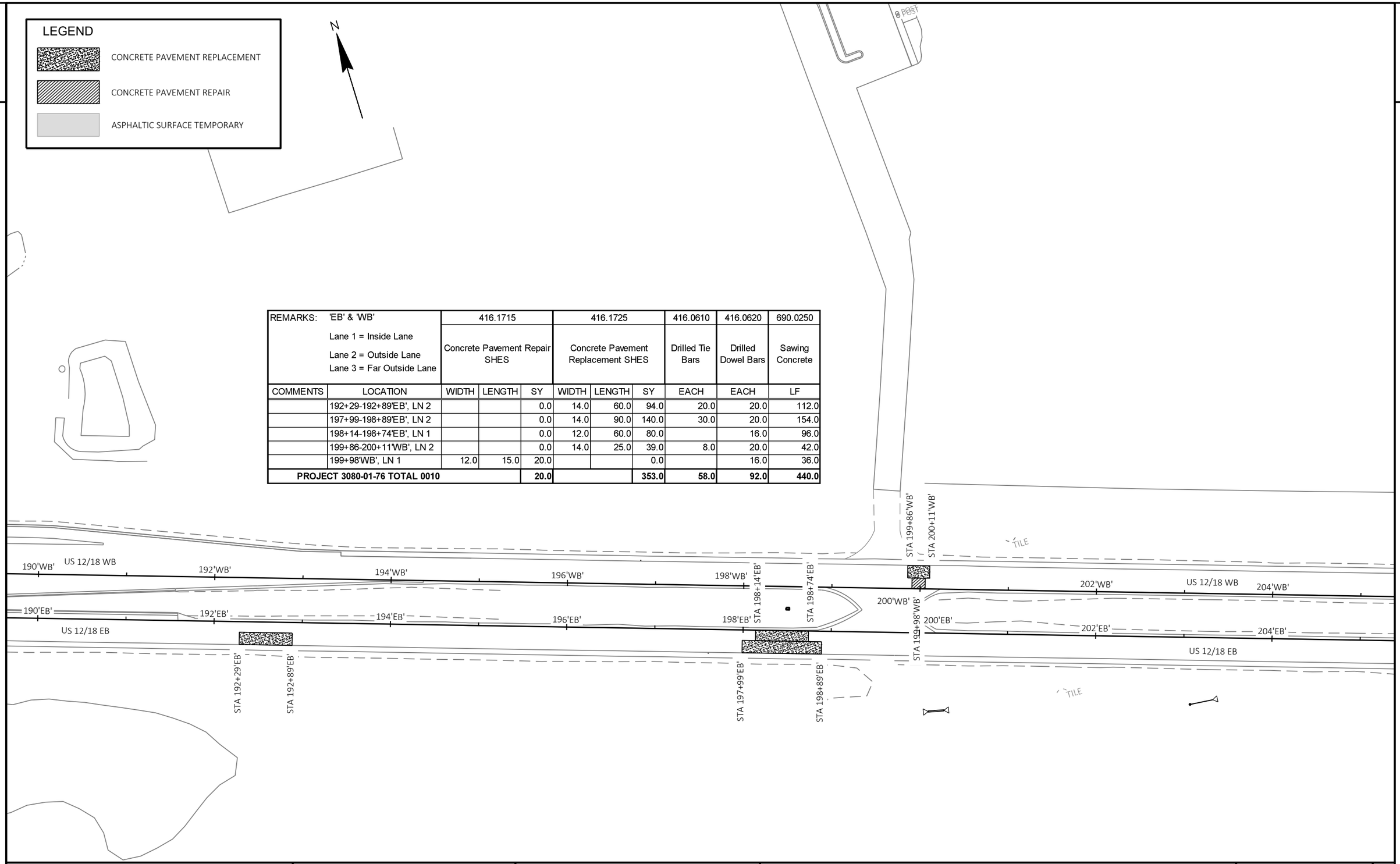
2

LEGEND

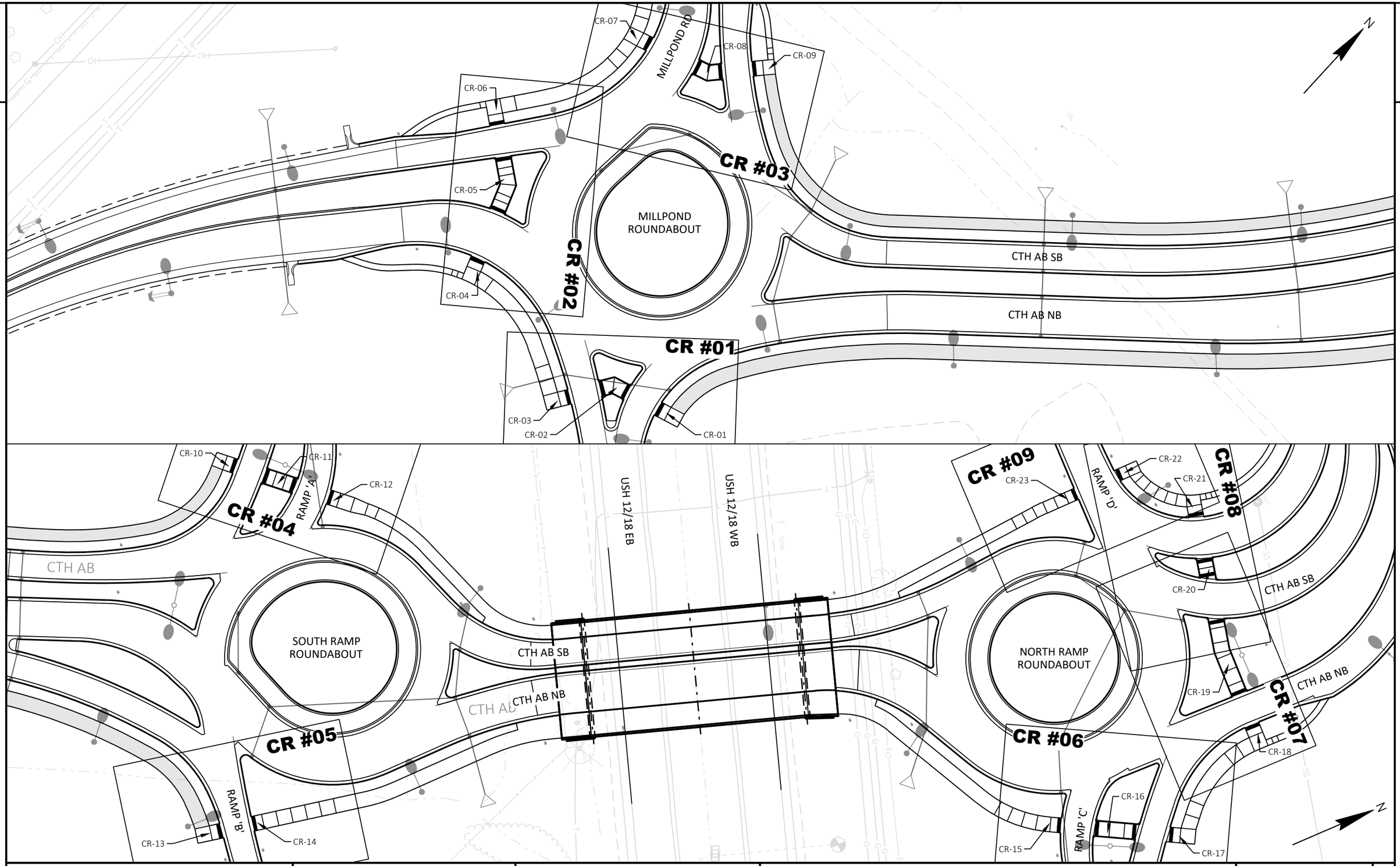
- CONCRETE PAVEMENT REPLACEMENT
- CONCRETE PAVEMENT REPAIR
- ASPHALTIC SURFACE TEMPORARY

N

REMARKS: 'EB' & 'WB' Lane 1 = Inside Lane Lane 2 = Outside Lane Lane 3 = Far Outside Lane		416.1715 Concrete Pavement Repair SHES			416.1725 Concrete Pavement Replacement SHES			416.0610 Drilled Tie Bars	416.0620 Drilled Dowel Bars	690.0250 Sawing Concrete
COMMENTS	LOCATION	WIDTH	LENGTH	SY	WIDTH	LENGTH	SY	EACH	EACH	LF
	192+29-192+89'EB', LN 2			0.0	14.0	60.0	94.0	20.0	20.0	112.0
	197+99-198+89'EB', LN 2			0.0	14.0	90.0	140.0	30.0	20.0	154.0
	198+14-198+74'EB', LN 1			0.0	12.0	60.0	80.0		16.0	96.0
	199+86-200+11'WB', LN 2			0.0	14.0	25.0	39.0	8.0	20.0	42.0
	199+98'WB', LN 1	12.0	15.0	20.0			0.0		16.0	36.0
PROJECT 3080-01-76 TOTAL 0010				**20.0**			**353.0**	**58.0**	**92.0**	**440.0**



PROJECT NO: 3080-01-40/76	HWY: USH 12	COUNTY: DANE	CONCRETE PAVEMENT REPLACEMENT & REPAIR	SHEET 137	E



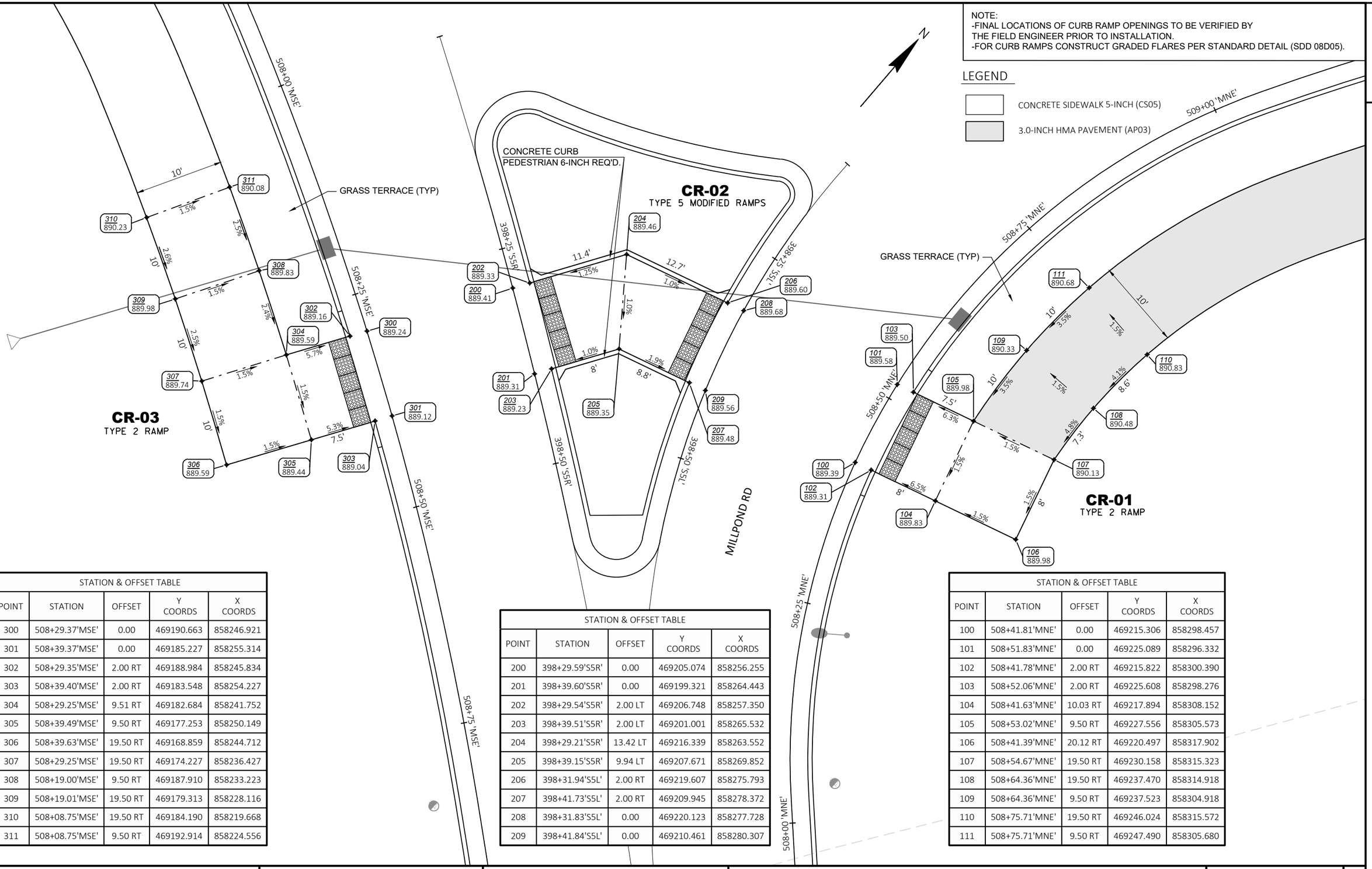
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - OVERVIEW	SHEET 138	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021301_CR.DWG
LAYOUT NAME - 021301_cr
PLOT DATE : 5/6/2022 2:54 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:60 FT
WISDOT/CADDS SHEET 42

NOTE:
-FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
-FOR CURB RAMPS CONSTRUCT GRADED FLARES PER STANDARD DETAIL (SDD 08D05).

LEGEND

- CONCRETE SIDEWALK 5-INCH (CS05)
- 3.0-INCH HMA PAVEMENT (AP03)



STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
300	508+29.37'MSE'	0.00	469190.663	858246.921
301	508+39.37'MSE'	0.00	469185.227	858255.314
302	508+29.35'MSE'	2.00 RT	469188.984	858245.834
303	508+39.40'MSE'	2.00 RT	469183.548	858254.227
304	508+29.25'MSE'	9.51 RT	469182.684	858241.752
305	508+39.49'MSE'	9.50 RT	469177.253	858250.149
306	508+39.63'MSE'	19.50 RT	469168.859	858244.712
307	508+29.25'MSE'	19.50 RT	469174.227	858236.427
308	508+19.00'MSE'	9.50 RT	469187.910	858233.223
309	508+19.01'MSE'	19.50 RT	469179.313	858228.116
310	508+08.75'MSE'	19.50 RT	469184.190	858219.668
311	508+08.75'MSE'	9.50 RT	469192.914	858224.556

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
200	398+29.59'S5R'	0.00	469205.074	858256.255
201	398+39.60'S5R'	0.00	469199.321	858264.443
202	398+29.54'S5R'	2.00 LT	469206.748	858257.350
203	398+39.51'S5R'	2.00 LT	469201.001	858265.532
204	398+29.21'S5R'	13.42 LT	469216.339	858263.552
205	398+39.15'S5R'	9.94 LT	469207.671	858269.852
206	398+31.94'S5L'	2.00 RT	469219.607	858275.793
207	398+41.73'S5L'	2.00 RT	469209.945	858278.372
208	398+31.83'S5L'	0.00	469220.123	858277.728
209	398+41.84'S5L'	0.00	469210.461	858280.307

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
100	508+41.81'MNE'	0.00	469215.306	858298.457
101	508+51.83'MNE'	0.00	469225.089	858296.332
102	508+41.78'MNE'	2.00 RT	469215.822	858300.390
103	508+52.06'MNE'	2.00 RT	469225.608	858298.276
104	508+41.63'MNE'	10.03 RT	469217.894	858308.152
105	508+53.02'MNE'	9.50 RT	469227.556	858305.573
106	508+41.39'MNE'	20.12 RT	469220.497	858317.902
107	508+54.67'MNE'	19.50 RT	469230.158	858315.323
108	508+64.36'MNE'	19.50 RT	469237.470	858314.918
109	508+64.36'MNE'	9.50 RT	469237.523	858304.918
110	508+75.71'MNE'	19.50 RT	469246.024	858315.572
111	508+75.71'MNE'	9.50 RT	469247.490	858305.680

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - MILPOND ROAD/CTH AB	SHEET 139	E

NOTE:
-FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
-FOR CURB RAMPS CONSTRUCT GRADED FLARES PER STANDARD DETAIL (SDD 08D05).

LEGEND

- CONCRETE SIDEWALK 5-INCH (CS05)
- 3.0-INCH HMA PAVEMENT (AP03)

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
600	507+34.93'MSW'	0.00	469283.234	858087.238
601	507+44.93'MSW'	0.00	469291.273	858093.186
602	507+34.94'MSW'	2.00	469284.434	858085.638
603	507+44.94'MSW'	2.00	469292.473	858091.586
604	507+34.99'MSW'	9.56	469288.972	858079.586
605	507+44.99'MSW'	9.50	469296.973	858085.585
606	507+35.03'MSW'	15.50	469292.533	858074.837
607	507+35.03'MSW'	19.50	469294.912	858071.622
608	507+44.99'MSW'	19.50	469302.920	858077.547
609	507+31.03'MSW'	15.50	469289.318	858072.458
610	507+31.03'MSW'	19.50	469291.697	858069.243
611	507+54.99'MSW'	9.50	469305.012	858091.533
612	507+54.99'MSW'	19.50	469310.959	858083.494

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
500	507+35.55'SB'	0.00 RT	469272.840	858101.100
501	507+45.56'SB'	0.00 RT	469280.565	858107.467
502	507+35.64'SB'	2.00 RT	469271.639	858102.702
503	507+45.65'SB'	2.00 RT	469279.364	858109.069
504	507+36.01'SB'	9.95 RT	469266.864	858109.071
505	507+46.00'SB'	9.49 RT	469274.865	858115.070
506	507+36.24'SB'	14.95 RT	469263.864	858113.071
507	507+46.23'SB'	14.49 RT	469271.865	858119.070
508	507+36.48'SB'	20.21 RT	469260.706	858117.283
509	507+46.60'SB'	22.67 RT	469266.949	858125.626
510	507+24.07'NB'	14.49 LT	469255.060	858119.390
511	507+32.81'NB'	14.49 LT	469258.557	858128.759
512	507+23.87'NB'	9.49 LT	469250.376	858121.139
513	507+33.01'NB'	9.49 LT	469253.873	858130.507
514	507+23.54'NB'	2.00 LT	469243.350	858123.761
515	507+33.35'NB'	2.00 LT	469246.847	858133.130
516	507+23.44'NB'	0.00	469241.473	858124.462
517	507+33.44'NB'	0.00	469244.971	858133.830

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
400	507+10.13'MSE'	0.00	469213.422	858134.933
401	507+20.15'MSE'	0.00	469216.426	858144.485
402	507+10.13'MSE'	2.00 RT	469211.548	858135.632
403	507+20.36'MSE'	2.00 RT	469214.542	858145.188
404	507+10.16'MSE'	10.08 RT	469203.977	858138.458
405	507+21.23'MSE'	9.50 RT	469207.474	858147.827
406	507+10.17'MSE'	15.50 RT	469198.900	858140.353
407	507+10.17'MSE'	19.50 RT	469195.149	858141.741
408	507+21.94'MSE'	19.50 RT	469197.905	858150.794
409	507+05.44'MSE'	15.50 RT	469197.424	858136.635
410	507+05.44'MSE'	19.50 RT	469193.742	858138.199
411	507+00.70'MSE'	15.50 RT	469195.773	858132.991
412	507+00.70'MSE'	19.50 RT	469192.170	858134.727
413	507+32.28'MSE'	9.50 RT	469209.347	858157.643
414	507+32.28'MSE'	19.50 RT	469199.436	858158.972

CR-06
TYPE 2 RAMP

CR-05
TYPE 5 MODIFIED RAMPS

CR-04
TYPE 2 RAMP

CONCRETE CURB
PEDESTRIAN 6-INCH REQ'D.

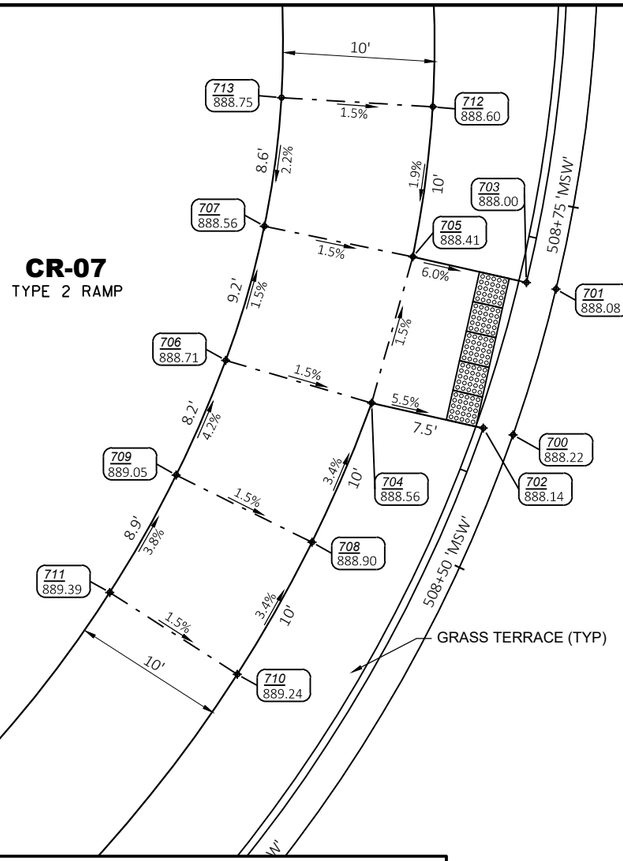
GRASS TERRACE (TYP)

CTH AB SB

CTH AB NB

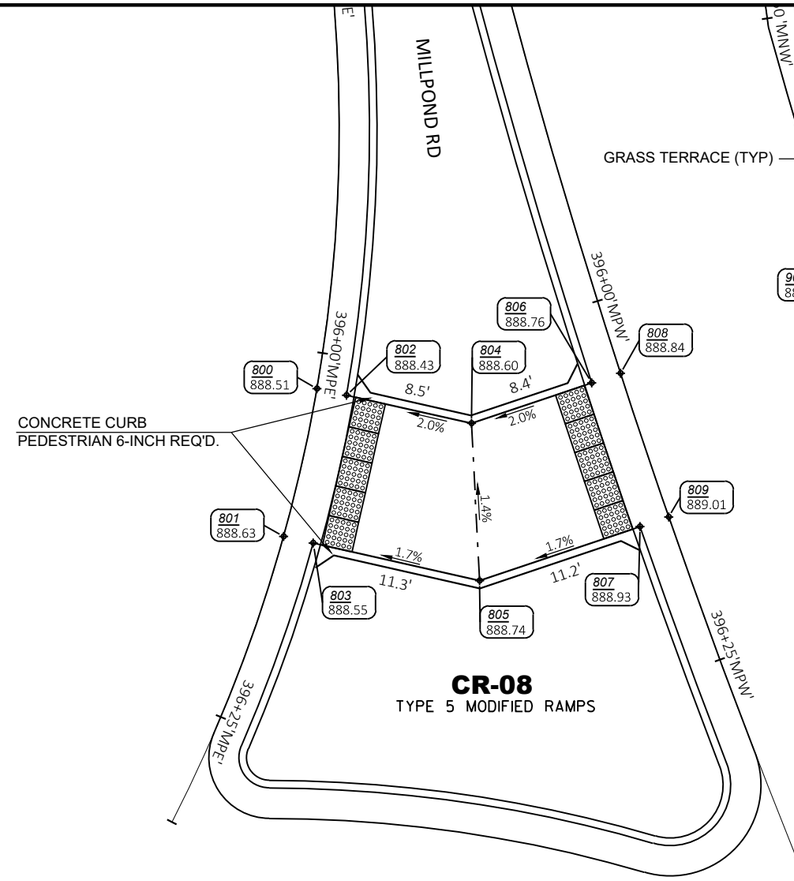
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - MILPOND ROAD/CTH AB	SHEET 140	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021301_CR.DWG
LAYOUT NAME - 021303_cr
PLOT DATE : 5/6/2022 2:54 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



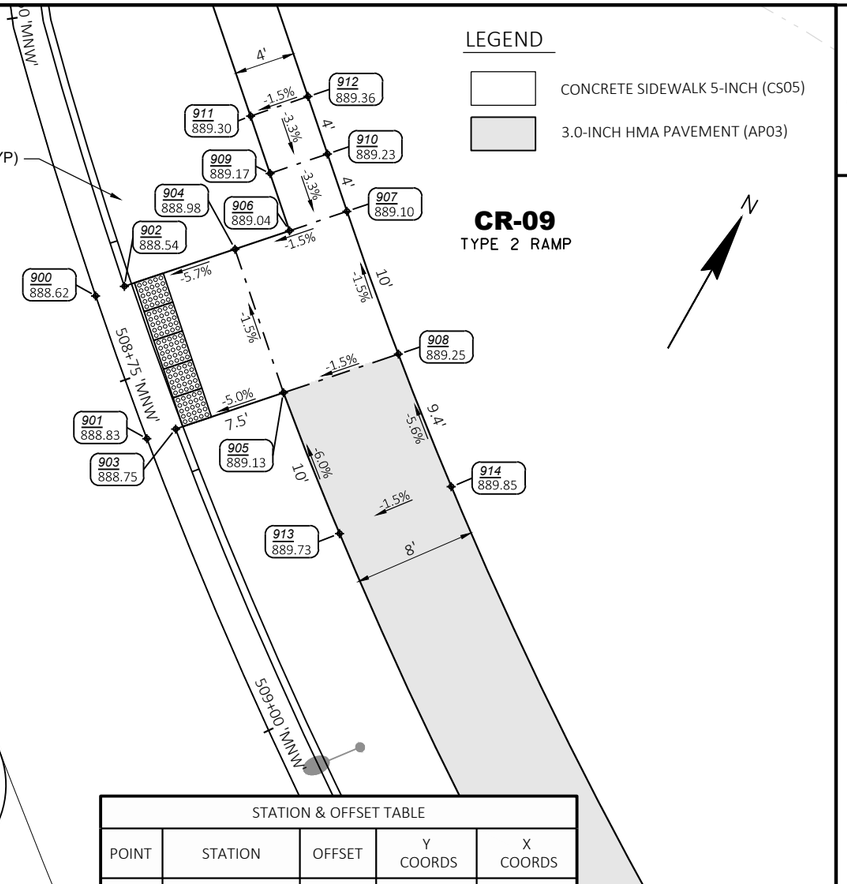
CR-07
TYPE 2 RAMP

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
700	508+59.44'MSW'	0.00	469395.070	858130.917
701	508+69.46'MSW'	0.00	469404.839	858128.683
702	508+59.20'MSW'	2.00 LT	469394.495	858128.987
703	508+69.43'MSW'	2.00 LT	469404.268	858126.766
704	508+58.22'MSW'	9.50 LT	469392.336	858121.745
705	508+69.30'MSW'	9.69 LT	469402.070	858119.398
706	508+57.41'MSW'	19.50 LT	469390.073	858111.981
707	508+68.87'MSW'	19.68 LT	469399.037	858109.869
708	508+47.17'MSW'	9.50 LT	469382.393	858122.816
709	508+47.17'MSW'	19.50 LT	469381.873	858112.830
710	508+36.11'MSW'	9.50 LT	469372.393	858122.783
711	508+36.11'MSW'	19.50 LT	469372.979	858112.800
712	508+80.39'MSW'	10.20 LT	469411.348	858115.697
713	508+79.55'MSW'	20.17 LT	469406.990	858106.697



CR-08
TYPE 5 MODIFIED RAMPS

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
800	396+02.38'MPE'	0.00	469413.365	858157.268
801	396+12.38'MPE'	0.00	469403.782	858160.126
802	396+02.48'MPE'	2.00 LT	469413.937	858159.187
803	396+12.28'MPE'	2.00 LT	469404.354	858162.045
804	396+05.10'MPW'	10.37 RT	469416.353	858167.288
805	396+14.87'MPW'	13.17 RT	469407.570	858172.828
806	396+05.02'MPW'	2.00 RT	469422.564	858172.905
807	396+14.98'MPW'	2.00 RT	469415.856	858180.322
808	396+05.00'MPW'	0.00	469424.047	858174.247
809	396+15.00'MPW'	0.00	469417.339	858181.664



CR-09
TYPE 2 RAMP

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
900	508+69.13'MNW'	0.00	469435.929	858184.994
901	508+79.13'MNW'	0.00	469429.371	858192.546
902	508+69.14'MNW'	2.00 LT	469437.412	858186.335
903	508+79.21'MNW'	2.00 LT	469430.855	858193.888
904	508+69.17'MNW'	9.71 LT	469443.129	858191.506
905	508+79.50'MNW'	9.50 LT	469436.421	858198.923
906	508+69.18'MNW'	13.50 LT	469445.941	858194.049
907	508+69.18'MNW'	17.50 LT	469448.918	858196.723
908	508+79.82'MNW'	17.50 LT	469442.359	858204.293
909	508+64.99'MNW'	13.47 LT	469448.613	858191.073
910	508+64.93'MNW'	17.47 LT	469451.590	858193.745
911	508+60.81'MNW'	13.39 LT	469451.285	858188.096
912	508+60.69'MNW'	17.39 LT	469454.262	858190.768
913	508+89.83'MNW'	9.50 LT	469430.133	858206.700
914	508+89.83'MNW'	17.50 LT	469436.439	858211.622

NOTE:
-FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
-FOR CURB RAMPS CONSTRUCT GRADED FLARES PER STANDARD DETAIL (SDD 08D05).

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - MILLPOND ROAD/CTH AB	SHEET 141	E

2

LEGEND

CONCRETE SIDEWALK 5-INCH (CS05)

3.0-INCH HMA PAVEMENT (AP03)

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
1000	41+48.88'SSW'	0.00	469895.940	858642.707
1001	41+58.90'SSW'	0.00	469902.896	858635.494
1002	41+48.79'SSW'	2.00 LT	469894.457	858641.362
1003	41+58.85'SSW'	2.00 LT	469901.406	858634.158
1004	41+48.36'SSW'	9.50 LT	469888.829	858636.387
1005	41+58.60'SSW'	9.89 LT	469895.494	858628.932
1006	41+48.34'SSW'	17.50 LT	469883.135	858630.767
1007	41+58.35'SSW'	17.50 LT	469889.787	858623.888
1008	41+37.45'SSW'	17.50 LT	469876.449	858637.109
1009	41+37.45'SSW'	9.50 LT	469881.568	858643.257

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
1100	51+85.04'S4R'	0.00	469907.963	858653.302
1101	51+75.03'S4R'	0.00	469914.898	858646.086
1102	51+84.93'S4R'	2.00 LT	469909.463	858654.629
1103	51+74.97'S4R'	2.00 LT	469916.397	858647.411
1104	51+84.52'S4R'	9.90 LT	469915.393	858659.871
1105	51+74.75'S4R'	9.50 LT	469922.016	858652.379
1106	51+84.16'S4R'	16.99 LT	469920.709	858664.570
1107	51+74.55'S4R'	16.59 LT	469927.333	858657.078
1108	51+83.79'S4R'	24.48 LT	469926.328	858669.538
1109	51+74.33'S4R'	24.78 LT	469933.473	858662.507
1110	51+83.70'S4R'	26.49 LT	469927.839	858670.873
1111	51+74.28'S4R'	26.78 LT	469934.971	858663.831

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
1200	695+93.90'A'	0.00	469949.264	858676.466
1201	696+03.90'A'	0.00	469942.640	858683.958
1202	695+93.99'A'	2.00 LT	469950.764	858677.792
1203	696+03.80'A'	2.00 LT	469944.140	858685.284
1204	695+94.33'A'	9.49 LT	469956.383	858682.760
1205	696+03.47'A'	9.49 LT	469949.760	858690.252
1206	695+94.71'A'	19.48 LT	469963.875	858689.383
1207	696+03.08'A'	19.48 LT	469957.252	858696.875
1208	695+95.83'A'	29.39 LT	469970.653	858696.746
1209	696+02.01'A'	29.41 LT	469965.361	858702.748
1210	695+96.35'A'	37.36 LT	469976.322	858702.389
1211	696+02.17'A'	36.62 LT	469970.471	858707.846

42+00 'SSW'

41+75 'SSW'

41+50 'SSW'

41+25 'SSW'

51+25 'S4R'

51+50 'S4R'

51+75 'S4R'

52+00 'S4R'

695+50'A'

695+75'A'

696+00'A'

CR-10
TYPE 2 RAMP

1005 903.56 | 1003 903.16 | 1007 903.67 | 1001 903.24 | 1006 903.82 | 1000 903.30 | 1004 903.71 | 1002 903.22 | 1008 904.20 | 1009 904.08

7.6' | 7.9' | 1.5% | 5.0% | 9.6' | 1.5% | 1.4% | 6.5% | 7.5' | 9.2' | 4.2% | 3.7% | 10' | 8'

GRASS TERRACE (TYP)

CR-11
TYPE 6 MODIFIED RAMPS

CONCRETE CURB
PEDESTRIAN 6-INCH REQ'D.

1103 903.32 | 1105 903.55 | 1107 903.66 | 1109 903.90 | 1101 903.40 | 1111 903.98 | 1100 903.49 | 1110 904.08 | 1102 903.41 | 1104 903.70 | 1106 903.81 | 1108 904.00

7.5' | 7' | 8.2' | 3.1% | 1.5% | 3.7% | 4.0% | 2.6% | 7.9' | 7.5'

RAMP 'A'

CR-12
TYPE 2 RAMP

1202 904.07 | 1204 904.56 | 1206 904.71 | 1208 905.23 | 1210 905.65 | 1200 904.15 | 1201 904.24 | 1203 904.16 | 1205 904.41 | 1207 904.56 | 1209 905.11 | 1211 905.53

6.5% | 1.5% | 5.2% | 8' | 10' | 3.3% | 5.5% | 5.8% | 7.2' | 7.5'

CTH AB

GRASS TERRACE (TYP)

NOTE:
-FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
-FOR CURB RAMPS CONSTRUCT GRADED FLARES PER STANDARD DETAIL (SDD 08D05).

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - MILLPOND ROAD/CTH AB & RAMP 'A'	SHEET 142	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021301_CR.DWG
LAYOUT NAME - 021305_cr
PLOT DATE : 5/6/2022 2:54 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

CTH AB

GRASS TERRACE (TYP)

RAMP 'B'

32+75 'SSE'

33+00 'SSE'

33+25 'SSE'

33+50 'SSE'

697+25'B'

697+50'B'

697+75'B'

698+00'B'

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
1400	697+67.42'B'	0.00	469811.144	858860.267
1401	697+77.42'B'	0.00	469809.310	858870.098
1402	697+67.42'B'	2.00 LT	469813.108	858860.646
1403	697+77.45'B'	2.00 LT	469811.275	858870.477
1404	697+67.42'B'	9.50 LT	469820.472	858862.068
1405	697+77.54'B'	9.44 LT	469818.576	858871.887
1406	697+67.42'B'	19.50 LT	469830.291	858863.964
1407	697+77.67'B'	19.44 LT	469828.395	858873.783
1408	697+67.42'B'	29.50 LT	469840.109	858865.860
1409	697+77.81'B'	29.44 LT	469838.213	858875.679
1410	697+67.42'B'	39.50 LT	469849.928	858867.756
1411	697+77.94'B'	39.43 LT	469848.032	858877.575
1412	697+67.42'B'	49.50 LT	469859.747	858869.653
1413	697+78.08'B'	49.43 LT	469857.850	858879.471
1414	697+67.42'B'	59.50 LT	469869.565	858871.549
1415	697+78.23'B'	59.43 LT	469867.669	858881.367

CR-14
TYPE 2 RAMP

1400 903.18 — 6.5% — 1402 903.10 — 1.5% — 1404 903.59 — 2.5% — 1406 903.74 — 2.9% — 1408 903.99 — 3.4% — 1410 904.28 — 4.4% — 1412 904.62 — 4.4% — 1414 905.06

1401 903.13 — 5.2% — 1403 903.05 — 1.5% — 1405 903.44 — 3.0% — 1407 903.59 — 4.4% — 1409 903.89 — 4.4% — 1411 904.33 — 4.4% — 1413 904.77 — 4.4% — 1415 905.22

7.5' — 10' — 10' — 1.5% — 1.5% — 1.0% — 0.5% — 1.5% — 1.5% — 10'

CR-13
TYPE 2 RAMP

1309 903.71 — -1.5% — 1308 903.56

10' — 8.4' — 3.6% — 3.0% — 10'

1306 903.41 — 1.5% — 1304 903.26 — 6.5% — 1302 902.77 — 1300 902.85

7.5'

10' — 1.5% — 1.5% — 1.5% — 10'

1307 903.26 — 1.5% — 1305 903.11 — 4.7% — 1303 902.73 — 1301 902.81

10' — 8'

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
1300	33+08.97'SSE'	0.00	469794.158	858856.987
1301	33+18.98'SSE'	0.00	469792.767	858866.903
1302	33+08.81'SSE'	2.00 RT	469792.188	858856.607
1303	33+18.90'SSE'	2.00 RT	469790.802	858866.524
1304	33+08.16'SSE'	9.50 RT	469784.799	858855.180
1305	33+18.57'SSE'	10.04 RT	469782.903	858864.998
1306	33+07.18'SSE'	19.50 RT	469774.942	858853.276
1307	33+18.18'SSE'	20.07 RT	469773.046	858863.095
1308	32+97.48'SSE'	9.50 RT	469785.498	858845.207
1309	32+97.48'SSE'	19.50 RT	469775.504	858844.863

LEGEND

N

CONCRETE SIDEWALK 5-INCH (CS05)

3.0-INCH HMA PAVEMENT (AP03)

NOTE:
-FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
-FOR CURB RAMPS CONSTRUCT GRADED FLARES PER STANDARD DETAIL (SDD 08D05).

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - RAMP 'B'	SHEET 143	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021301_CR.DWG
LAYOUT NAME - 021306_cr
PLOT DATE : 5/6/2022 2:55 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
1500	798+25.13'C'	0.00	470321.752	859080.459
1501	798+35.13'C'	0.00	470317.074	859089.298
1502	798+25.22'C'	2.00 RT	470319.986	859079.516
1503	798+35.03'C'	2.00 RT	470315.307	859088.354
1504	798+25.53'C'	9.49 RT	470313.370	859075.984
1505	798+34.66'C'	9.53 RT	470308.660	859084.805
1506	798+25.50'C'	18.47 RT	470305.649	859071.395
1507	798+33.87'C'	19.47 RT	470300.074	859079.697
1508	798+24.71'C'	27.30 RT	470298.563	859066.036
1509	798+32.35'C'	29.29 RT	470292.098	859073.666
1510	798+23.30'C'	35.99 RT	470292.114	859059.925
1511	798+30.26'C'	38.89 RT	470284.843	859066.791
1512	798+21.39'C'	44.47 RT	470286.383	859053.137
1513	798+27.73'C'	48.20 RT	470278.396	859059.153

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
1600	57+32.13'S2L'	0.00	470338.306	859089.299
1601	57+42.17'S2L'	0.00	470332.893	859097.745
1602	57+31.85'S2L'	2.00 LT	470340.087	859090.250
1603	57+42.12'S2L'	2.00 LT	470334.658	859098.687
1604	57+30.23'S2L'	12.06 LT	470349.054	859095.038
1605	57+41.81'S2L'	12.98 LT	470344.343	859103.859
1606	52+63.12'S2R'	11.96 LT	470357.875	859099.748
1607	52+53.50'S2R'	10.11 LT	470353.165	859108.569
1608	52+65.09'S2R'	2.00 LT	470366.840	859104.535
1609	52+54.95'S2R'	2.00 LT	470360.434	859112.451
1610	52+65.49'S2R'	0.00	470368.640	859105.497
1611	52+55.31'S2R'	0.00	470362.227	859113.409

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
1700	32+53.35'NNE'	0.00	470376.583	859121.074
1701	32+63.55'NNE'	0.00	470383.052	859113.192
1702	32+53.73'NNE'	2.00 RT	470378.378	859122.033
1703	32+63.97'NNE'	2.00 RT	470384.855	859114.155
1704	32+55.58'NNE'	11.50 RT	470386.909	859126.588
1705	32+65.59'NNE'	9.50 RT	470391.619	859117.767
1706	32+57.61'NNE'	21.54 RT	470395.935	859131.408
1707	32+67.82'NNE'	19.50 RT	470400.645	859122.586
1708	32+75.78'NNE'	9.50 RT	470398.151	859110.195
1709	32+75.87'NNE'	19.50 RT	470405.713	859116.738
1710	32+86.39'NNE'	9.50 RT	470404.897	859102.835
1711	32+86.39'NNE'	19.50 RT	470411.955	859109.919

GRASS TERRACE (TYP)

CR-15
TYPE 2 RAMP

1512 905.67 — 4.7% — 1510 905.25 — 4.7% — 1508 904.83 — 4.7% — 1506 904.41 — 1.5% — 1504 904.27 — 2.8% — 1502 904.06

10' | 8.9' | 9' | 10'

1513 905.82 — 4.2% — 1511 905.40 — 4.2% — 1509 904.98 — 1.5% — 1507 904.56 — 1.5% — 1505 904.41 — 6.1% — 1503 903.95

1.5% | 1.5% | 1.5% | 1.35% | 7.5'

1500 904.14 — 1501 904.03

798+25'C'

798+50'C'

57+25 'S2L'

57+50 'S2L'

52+75 'S2R'

52+50 'S2R'

CR-16
TYPE 5 MODIFIED RAMPS

1600 903.85 — 1602 903.77 — 1604 903.60 — 1606 903.40 — 1608 903.21 — 1610 903.29

10.2' | 10' | 10.2'

1.7% | 2.0% | 2.0%

1.16% | 1.16%

1601 903.78 — 1603 903.70 — 1605 903.48 — 1607 903.28 — 1609 903.12 — 1611 903.20

2.4% | 2.0% | 2.0%

11' | 10' | 8.2'

CONCRETE CURB
PEDESTRIAN 6-INCH REQ'D.

RAMP 'C'

33+25 'NNE'

32+75 'NNE'

32+50 'NNE'

GRASS TERRACE (TYP)

CR-17
TYPE 2 RAMP

1710 903.83 — 10' — 1711 903.98

1.5%

2.7% | 2.9% | 9.3'

1708 903.56 — 1.5% — 1709 903.71

10' | 2.7% | 3.5% | 7.7'

1703 902.90 — 1705 903.29 — 1707 903.44

1701 902.98 — 7.7' — 5.0% — 1.5% — 1.5% — 1.5% — 10'

1700 902.90 — 1702 902.82 — 1704 903.14 — 1706 903.29

3.9% | 1.5%

9.7' | 10.2'

LEGEND

CONCRETE SIDEWALK 5-INCH (CS05)

3.0-INCH HMA PAVEMENT (AP03)

N

NOTE:
-FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
-FOR CURB RAMPS CONSTRUCT GRADED FLARES PER STANDARD DETAIL (SDD 08D05).

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - RAMP 'C'	SHEET 144	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021301_CR.DWG
LAYOUT NAME - 021307_cr

PLOT DATE : 5/6/2022 2:55 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

2

N

GRASS TERRACE (TYP)

CONCRETE CURB
PEDESTRIAN 6-INCH REQ'D.

CR-19
TYPE 2 RAMPS

CR-18
TYPE 2 RAMP

CTH AB 'SB'

CTH AB 'NB'

60+50 'S1L'

60+25 'S1L'

50+50 'S1R'

50+25 'S1R'

523+75'SB'

523+50'SB'

523+25'SB'

524+00'NB'

523+75'NB'

33+75 'NNE'

33+50 'NNE'

33+25 'NNE'

33+00 'NNE'

1915 902.65
1917 902.73
1913 903.03
1911 903.18
1909 903.34
1907 903.19
1905 903.04
1903 902.89
1901 902.97
1916 902.86
1914 902.78
1912 903.18
1910 903.33
1908 903.49
1906 903.34
1904 903.19
1902 903.01
1900 903.09

1810 903.46
1809 903.52
1803 902.54
1805 903.01
1807 903.10
1801 902.62
1808 903.16
1802 902.67
1800 902.75
1804 903.16
1806 903.31
1811 903.59
1812 903.44
1813 903.87
1814 903.72

5.7'
6.6%
1.5%
8.9'
1.8%
1.5%
1.5%
1.5%
1.5%
6.8%
8'
10'
10.9'
10'
10'
8'
4'
4.5%
6.1%
6.5%
7.5'
3.8%
3.5%
8'
8.9'
3.2%
2.8%

LEGEND

CONCRETE SIDEWALK 5-INCH (CS05)

3.0-INCH HMA PAVEMENT (AP03)

NOTE:
-FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
-FOR CURB RAMPS CONSTRUCT GRADED FLARES PER STANDARD DETAIL (SDD 08D05).

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS
1900	523+75.59'NB'	0.00	470459.244	859051.775
1901	523+85.53'NB'	0.00	470469.184	859052.002
1902	523+75.53'NB'	2.00 LT	470459.232	859049.774
1903	523+85.53'NB'	2.00 LT	470469.230	859050.002
1904	523+75.55'NB'	9.42 LT	470459.415	859041.776
1905	523+85.53'NB'	9.42 LT	470469.400	859042.004
1906	523+75.53'NB'	14.42 LT	470459.644	859031.779
1907	523+85.53'NB'	14.42 LT	470469.641	859032.007
1908	523+75.53'NB'	24.42 LT	470459.873	859021.781
1909	523+85.53'NB'	24.42 LT	470469.870	859022.010
1910	523+45.93'SB'	19.41 RT	470461.363	859011.046
1911	523+54.28'SB'	17.45 RT	470471.130	859013.196
1912	523+43.78'SB'	9.72 RT	470463.513	859001.280
1913	523+52.81'SB'	7.58 RT	470473.279	859003.429
1914	523+41.78'SB'	2.00 RT	470465.233	858993.467
1915	523+51.86'SB'	2.00 RT	470474.499	858997.890
1916	523+41.21'SB'	0.00	470465.680	858991.435
1917	523+51.50'SB'	0.00	470474.936	858995.904

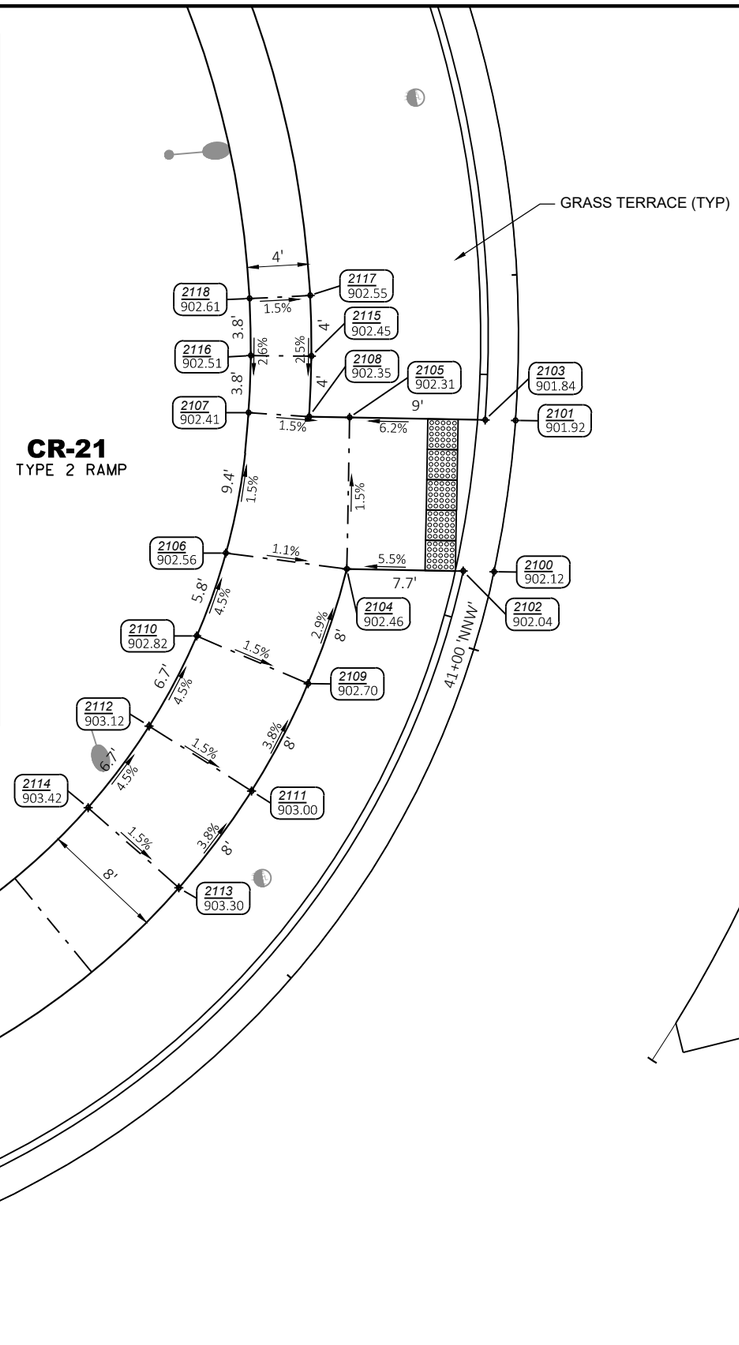
STATION & OFFSET TABLE

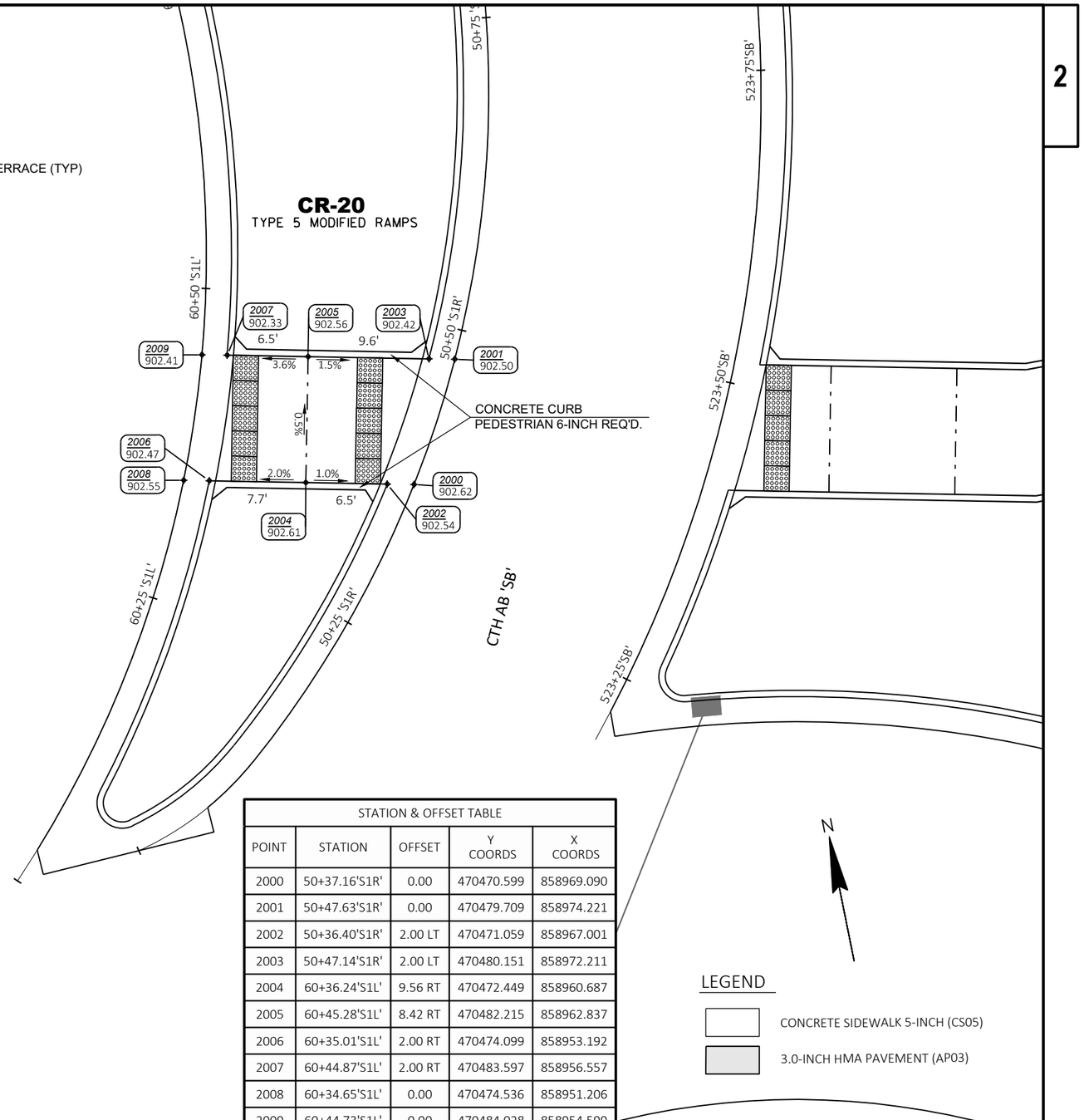
POINT	STATION	OFFSET	Y COORDS	X COORDS
1800	33+53.97'NNE'	0.00	470458.772	859069.908
1801	33+63.97'NNE'	0.00	470468.773	859069.997
1802	33+53.85'NNE'	2.00 RT	470458.726	859071.910
1803	33+63.96'NNE'	2.00 RT	470468.715	859071.996
1804	33+53.37'NNE'	9.50 RT	470458.554	859079.421
1805	33+63.97'NNE'	9.66 RT	470468.552	859079.650
1806	33+52.58'NNE'	19.50 RT	470458.325	859089.441
1807	33+63.97'NNE'	15.50 RT	470468.418	859085.493
1808	33+63.97'NNE'	19.50 RT	470468.327	859089.492
1809	33+71.97'NNE'	19.50 RT	470476.325	859089.675
1810	33+71.97'NNE'	15.50 RT	470476.416	859085.676
1811	33+42.31'NNE'	19.50 RT	470450.333	859090.285
1812	33+42.19'NNE'	9.50 RT	470448.613	859080.433
1813	33+31.03'NNE'	19.50 RT	470441.720	859092.255
1814	33+31.03'NNE'	9.50 RT	470438.884	859082.665

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - CTH AB	SHEET 145	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021301_CR.DWG
LAYOUT NAME - 021308_cr
PLOT DATE : 5/6/2022 2:55 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
2100	41+05.29'NNW'	0.00	470479.617	858928.126
2101	41+15.37'NNW'	0.00	470489.117	858931.483
2102	41+04.89'NNW'	2.00 LT	470480.055	858926.134
2103	41+15.26'NNW'	2.00 LT	470489.548	858929.527
2104	41+03.08'NNW'	9.50 LT	470481.705	858918.639
2105	41+14.66'NNW'	10.93 LT	470491.471	858920.789
2106	41+01.76'NNW'	17.50 LT	470484.314	858911.008
2107	41+14.35'NNW'	17.60 LT	470493.102	858914.318
2108	41+14.45'NNW'	13.60 LT	470492.046	858918.176
2109	40+93.58'NNW'	9.50 LT	470474.790	858914.633
2110	40+93.58'NNW'	17.50 LT	470479.336	858908.050
2111	40+84.07'NNW'	9.50 LT	470468.594	858909.586
2112	40+84.07'NNW'	17.50 LT	470474.121	858903.802
2113	40+74.57'NNW'	9.50 LT	470463.271	858903.625
2114	40+74.58'NNW'	17.50 LT	470469.641	858898.792
2115	41+19.34'NNW'	13.66 LT	470495.936	858919.115
2116	41+19.27'NNW'	17.66 LT	470496.758	858915.200
2117	41+24.24'NNW'	13.70 LT	470499.878	858919.818
2118	41+24.20'NNW'	17.70 LT	470500.462	858915.861





STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
2000	50+37.16'S1R'	0.00	470470.599	858969.090
2001	50+47.63'S1R'	0.00	470479.709	858974.221
2002	50+36.40'S1R'	2.00 LT	470471.059	858967.001
2003	50+47.14'S1R'	2.00 LT	470480.151	858972.211
2004	60+36.24'S1L'	9.56 RT	470472.449	858960.687
2005	60+45.28'S1L'	8.42 RT	470482.215	858962.837
2006	60+35.01'S1L'	2.00 RT	470474.099	858953.192
2007	60+44.87'S1L'	2.00 RT	470483.597	858956.557
2008	60+34.65'S1L'	0.00	470474.536	858951.206
2009	60+44.73'S1L'	0.00	470484.028	858954.599

N

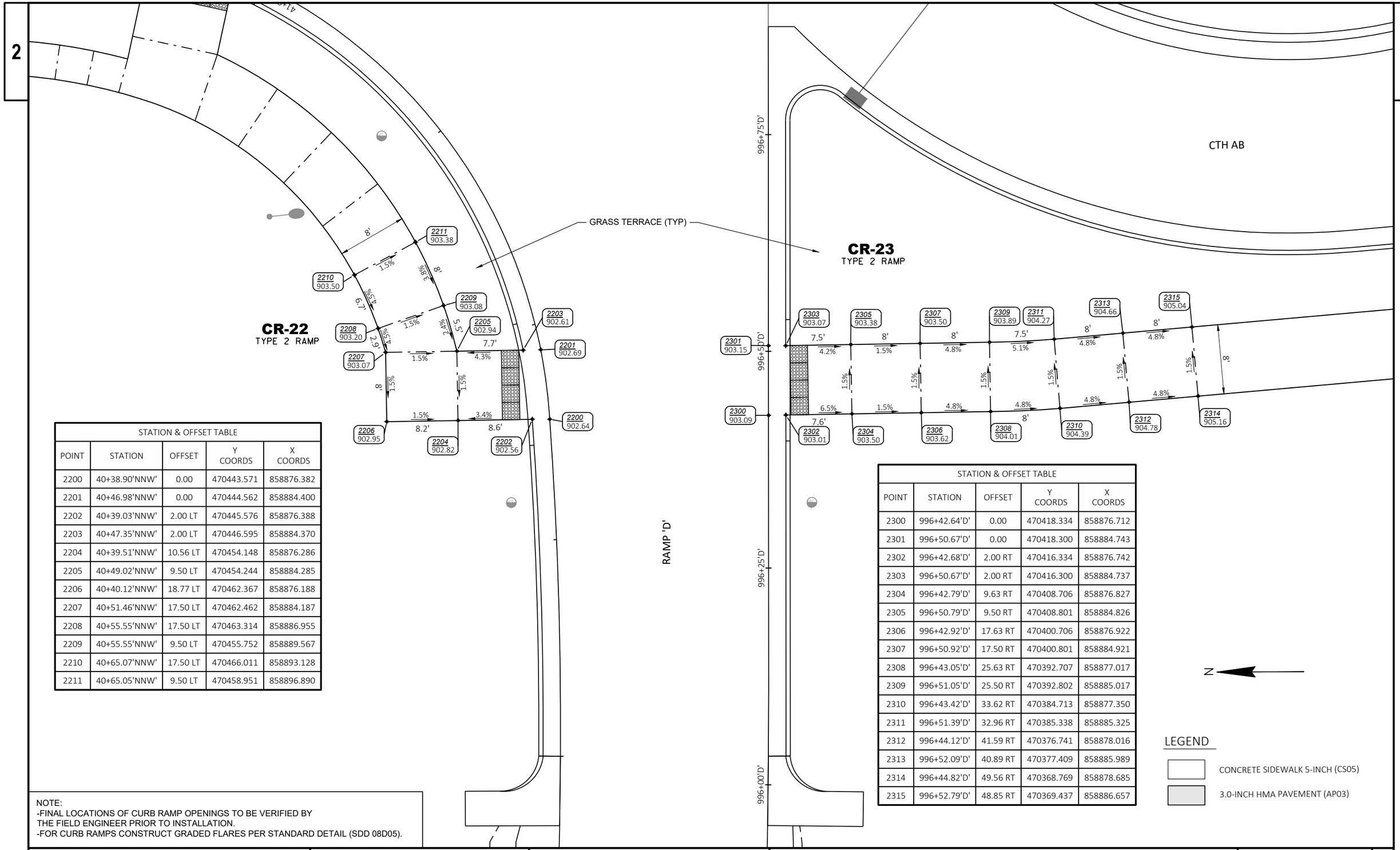
LEGEND

CONCRETE SIDEWALK 5-INCH (CS05)

3.0-INCH HMA PAVEMENT (AP03)

NOTE:
-FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
-FOR CURB RAMPS CONSTRUCT GRADED FLARES PER STANDARD DETAIL (SDD 08D05).

2



STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
2200	40+38.90'NNW'	0.00	470443.571	858876.382
2201	40+46.98'NNW'	0.00	470444.562	858884.400
2202	40+39.03'NNW'	2.00 LT	470445.576	858876.388
2203	40+47.35'NNW'	2.00 LT	470446.595	858884.370
2204	40+39.51'NNW'	10.56 LT	470454.148	858876.286
2205	40+49.02'NNW'	9.50 LT	470454.244	858884.285
2206	40+40.12'NNW'	18.77 LT	470462.367	858876.188
2207	40+51.46'NNW'	17.50 LT	470462.462	858884.187
2208	40+55.55'NNW'	17.50 LT	470463.314	858886.955
2209	40+55.55'NNW'	9.50 LT	470455.752	858889.567
2210	40+65.07'NNW'	17.50 LT	470466.011	858893.128
2211	40+65.05'NNW'	9.50 LT	470458.951	858896.890

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
2300	996+42.64'D'	0.00	470418.334	858876.712
2301	996+50.67'D'	0.00	470418.300	858884.743
2302	996+42.68'D'	2.00 RT	470416.334	858876.742
2303	996+50.67'D'	2.00 RT	470416.300	858884.737
2304	996+42.79'D'	9.63 RT	470408.706	858876.827
2305	996+50.79'D'	9.50 RT	470408.801	858884.826
2306	996+42.92'D'	17.63 RT	470400.706	858876.922
2307	996+50.92'D'	17.50 RT	470400.801	858884.921
2308	996+43.05'D'	25.63 RT	470392.707	858877.017
2309	996+51.05'D'	25.50 RT	470392.802	858885.017
2310	996+43.42'D'	33.62 RT	470384.713	858877.350
2311	996+51.39'D'	32.96 RT	470385.338	858885.325
2312	996+44.12'D'	41.59 RT	470376.741	858878.016
2313	996+52.09'D'	40.89 RT	470377.409	858885.989
2314	996+44.82'D'	49.56 RT	470368.769	858878.685
2315	996+52.79'D'	48.85 RT	470369.437	858886.657

N

LEGEND

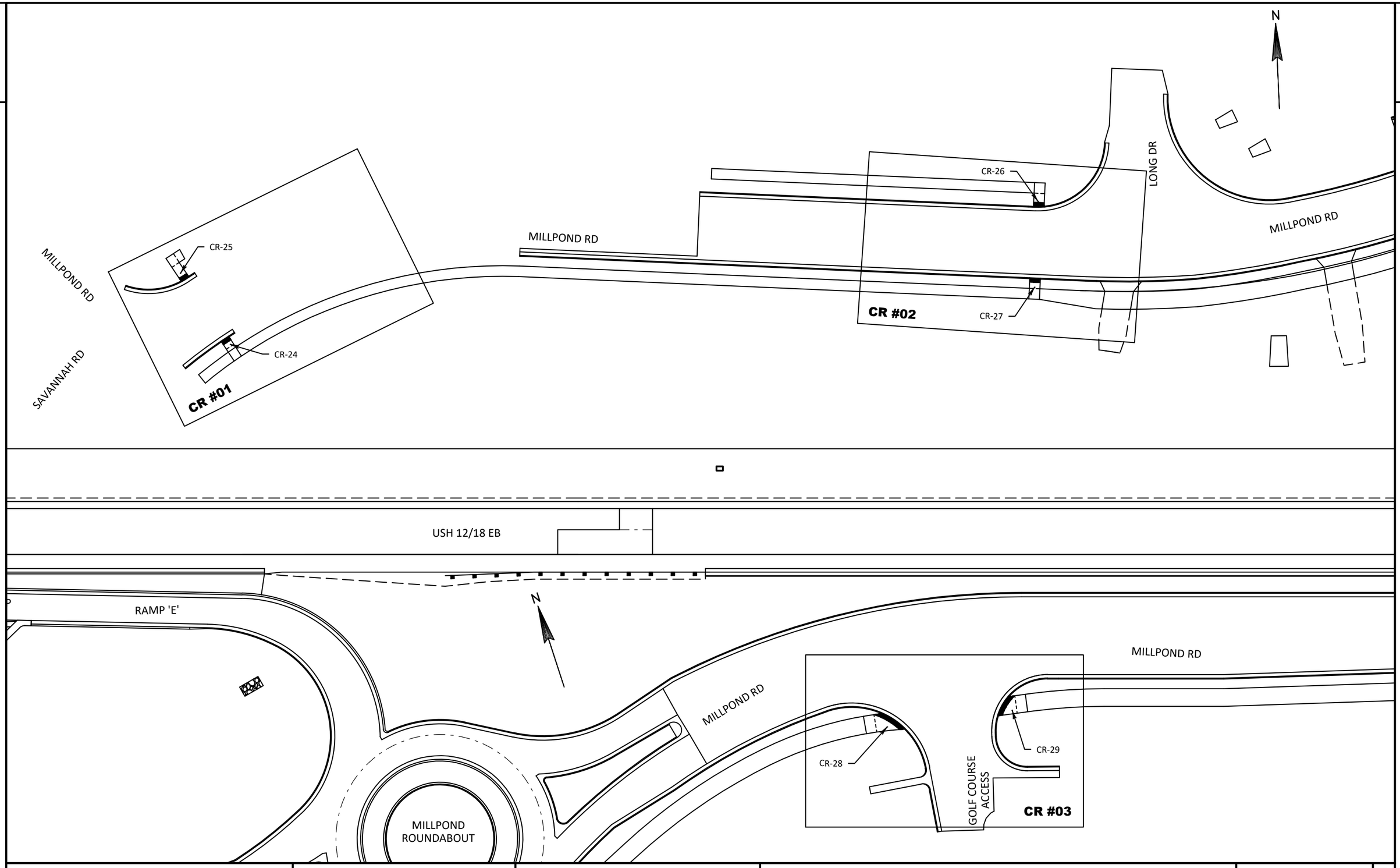
CONCRETE SIDEWALK 5-INCH (CS05)

3.0-INCH HMA PAVEMENT (AP03)

NOTE:
-FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
-FOR CURB RAMPS CONSTRUCT GRADED FLARES PER STANDARD DETAIL (SDD 08D05).

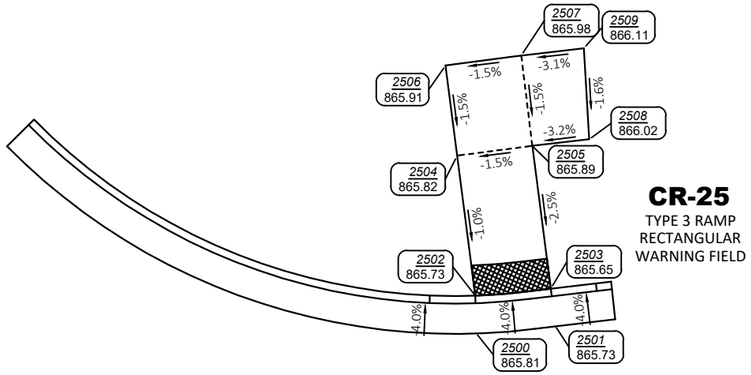
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - RAMP 'D'	SHEET 147	E

2



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - OVERVIEW	SHEET 148	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021300-CR (CURB RAMP DETAILS) - OVERVIEW.DWG PLOT DATE : 5/25/2022 4:25 PM PLOT BY : SEH LAYOUT NAME : 01 PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42



CR-25
TYPE 3 RAMP
RECTANGULAR
WARNING FIELD

LEGEND

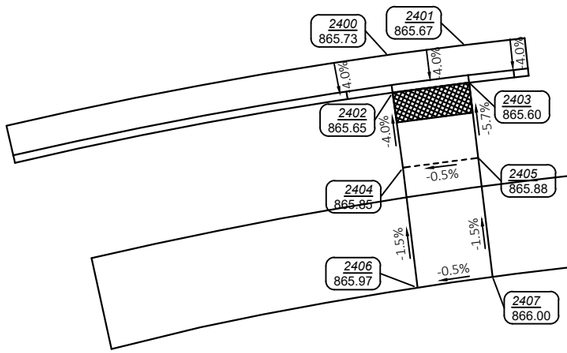
- CONCRETE SIDEWALK 5-INCH (CS05)
- 3.0-INCH HMA PAVEMENT (AP03)

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
2500	324+22.42'MP'	17.95' LT	471582.279	851932.600
2501	324+27.34'MP'	17.75' LT	471584.813	851937.165
2502	324+22.66'MP'	20.43' LT	471584.531	851931.514
2503	324+27.34'MP'	20.25' LT	471586.962	851935.887
2504	324+22.73'MP'	29.75' LT	471592.501	851926.691
2505	324+27.27'MP'	29.75' LT	471595.090	851930.969
2506	324+22.77'MP'	35.75' LT	471597.635	851923.584
2507	324+27.27'MP'	35.75' LT	471600.247	851927.901
2508	324+30.71'MP'	29.75' LT	471597.001	851934.224
2509	324+30.99'MP'	35.75' LT	471602.351	851931.489

MILLPOND RD

324'MP'

325'MP'



CR-24
TYPE 3 RAMP
RECTANGULAR
WARNING FIELD

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
2400	324+22.26'MP'	18.50' RT	471551.184	851951.615
2401	324+27.74'MP'	18.50' RT	471553.844	851956.010
2402	324+22.26'MP'	21.00' RT	471549.058	851952.929
2403	324+27.74'MP'	21.00' RT	471551.693	851957.284
2404	324+22.26'MP'	26.00' RT	471544.804	851955.556
2405	324+27.74'MP'	26.00' RT	471547.392	851959.834
2406	324+22.10'MP'	33.97' RT	471537.943	851959.623
2407	324+27.74'MP'	33.91' RT	471540.592	851963.865

NOTE:
FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
FOR CURB RAMPS CONSTRUCT GRADED FLARES PER STANDARD DETAIL (SDD 08D05).

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - MILLPOND RD	SHEET 149	E

2

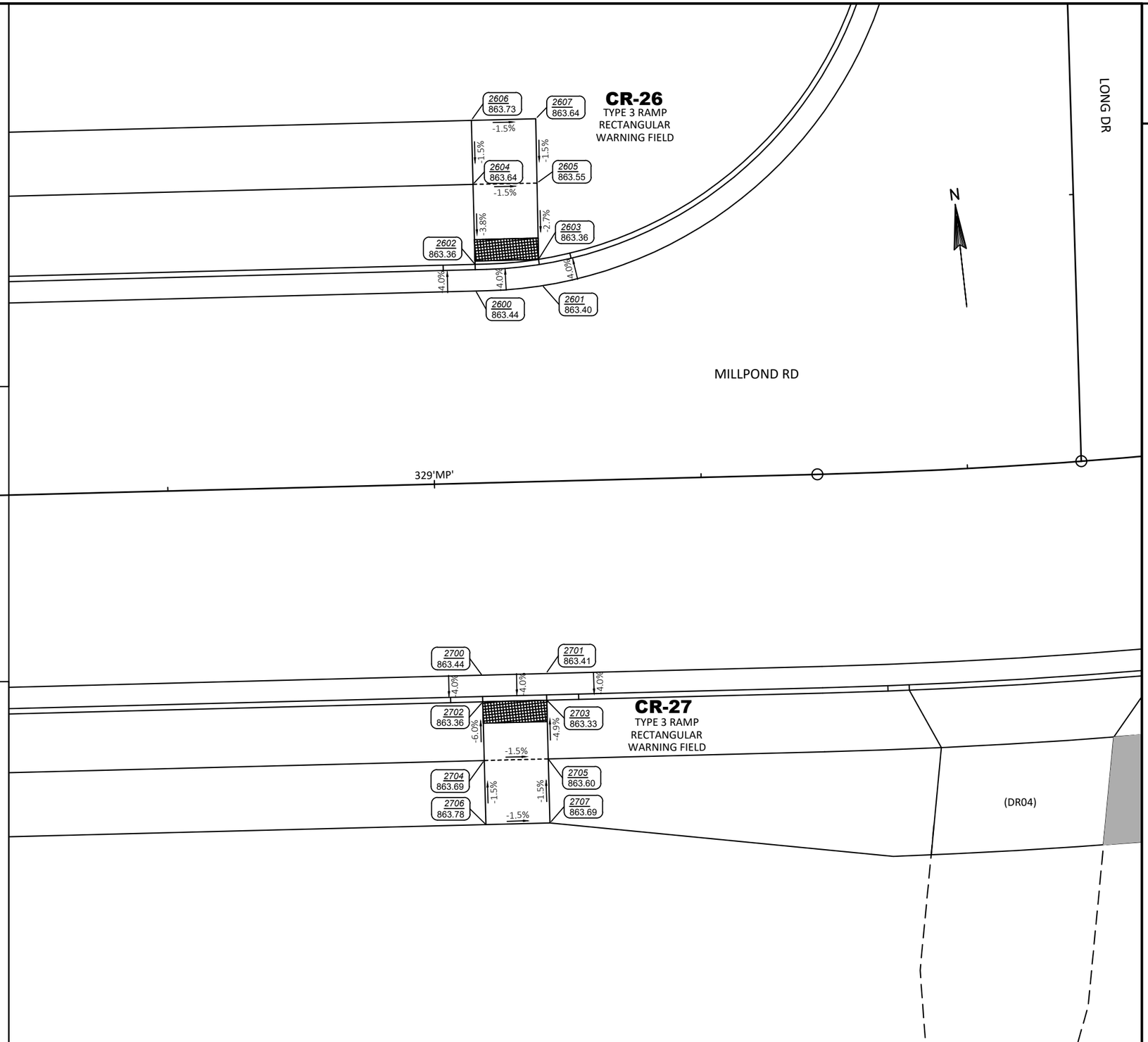
STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
2600	329+04.33'MP'	18.00' LT	471603.196	852416.052
2601	329+10.61'MP'	18.34' LT	471602.987	852422.339
2602	329+04.33'MP'	20.50' LT	471605.682	852416.269
2603	329+10.29'MP'	20.81' LT	471605.476	852422.230
2604	329+04.33'MP'	28.00' LT	471613.158	852416.924
2605	329+10.33'MP'	27.96' LT	471612.598	852422.898
2606	329+04.33'MP'	34.00' LT	471619.135	852417.447
2607	329+10.37'MP'	34.00' LT	471618.608	852423.461

NOTE:
FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
FOR CURB RAMPS CONSTRUCT GRADED FLARES PER STANDARD DETAIL (SDD 08D05).

LEGEND

- CONCRETE SIDEWALK 5-INCH (CS05)
- 3.0-INCH HMA PAVEMENT (AP03)

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
2700	329+04.00'MP'	18.00' RT	471567.362	852412.585
2701	329+10.00'MP'	18.00' RT	471566.838	852418.562
2702	329+04.00'MP'	20.50' RT	471564.871	852412.367
2703	329+10.00'MP'	20.50' RT	471564.348	852418.344
2704	329+04.00'MP'	26.00' RT	471559.392	852411.887
2705	329+10.00'MP'	26.00' RT	471558.869	852417.864
2706	329+04.00'MP'	32.00' RT	471553.415	852411.364
2707	329+10.00'MP'	32.00' RT	471552.892	852417.341



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - MILLPOND RD, LONG DR	SHEET 150	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021300-CR (CURB RAMP DETAILS).DWG PLOT DATE : 5/25/2022 4:34 PM PLOT BY : SEH LAYOUT NAME : 02 PLOT SCALE : 1.0 IN = #### FT
WISDOT/CADDS SHEET 42

2

NOTE:
FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.

348'ME'

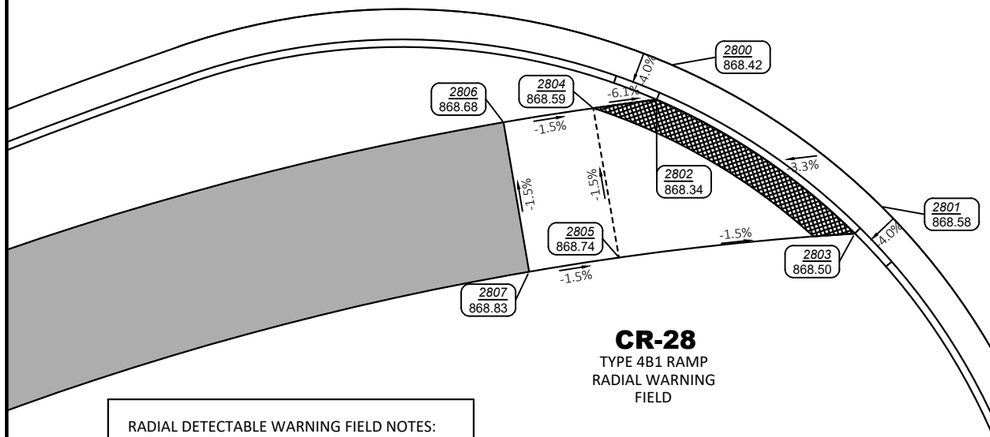
MILLPOND RD

N

LEGEND

CONCRETE SIDEWALK 5-INCH (CS05)

3.0-INCH HMA PAVEMENT (AP03)



CR-28
TYPE 4B1 RAMP
RADIAL WARNING
FIELD

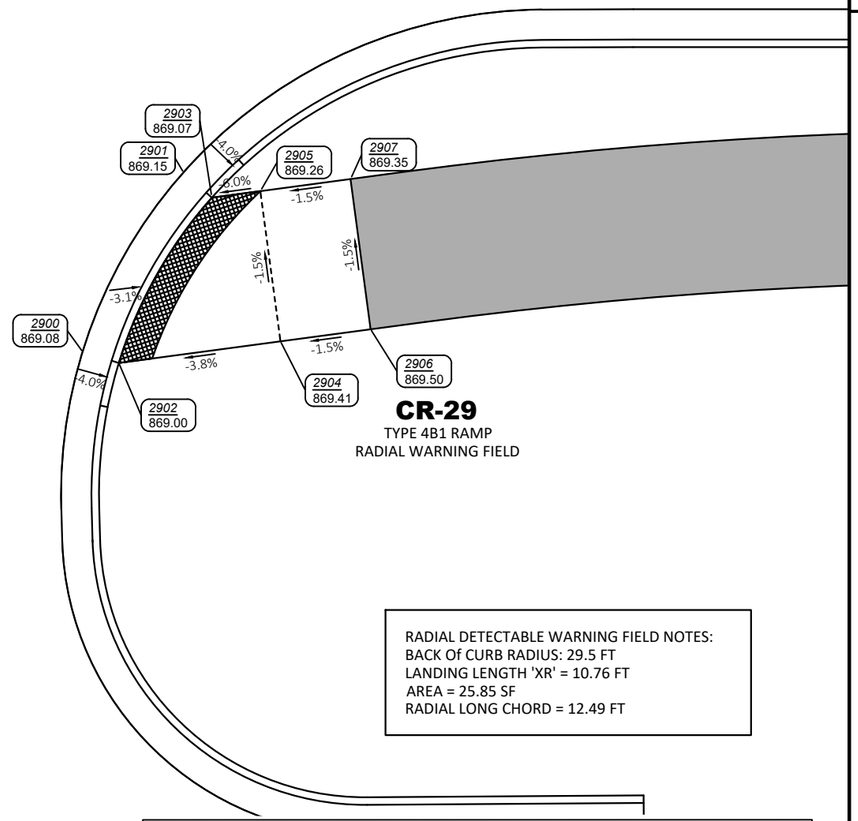
RADIAL DETECTABLE WARNING FIELD NOTES:
BACK Of CURB RADIUS: 42.5 FT
LANDING LENGTH 'XR' = 15.64 FT
AREA = 32.73 SF
RADIAL LONG CHORD = 15.78 FT

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
2800	347+86.46'MP'	39.18' RT	471517.543	854158.639
2801	347+99.63'MP'	51.13' RT	471504.378	854168.931
2802	347+84.83'MP'	41.20' RT	471515.664	854156.989
2803	347+97.26'MP'	52.54' RT	471503.231	854166.709
2804	347+80.16'MP'	40.79' RT	471516.424	854152.847
2805	347+79.42'MP'	50.77' RT	471506.522	854151.422
2806	347+73.51'MP'	40.27' RT	471517.364	854146.921
2807	347+72.58'MP'	50.23' RT	471507.466	854145.496

NOTE:
FINAL LOCATIONS OF CURB RAMP OPENINGS TO BE VERIFIED BY THE FIELD ENGINEER PRIOR TO INSTALLATION.
FOR CURB RAMPS CONSTRUCT GRADED FLARES PER STANDARD DETAIL (SDD 08D05).

GOLF COURSE ACCESS

'GC'



CR-29
TYPE 4B1 RAMP
RADIAL WARNING FIELD

RADIAL DETECTABLE WARNING FIELD NOTES:
BACK Of CURB RADIUS: 29.5 FT
LANDING LENGTH 'XR' = 10.76 FT
AREA = 25.85 SF
RADIAL LONG CHORD = 12.49 FT

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
2900	348+56.48'MP'	50.26' RT	471495.478	854217.742
2901	348+64.43'MP'	38.66' RT	471504.681	854227.727
2902	348+59.18'MP'	51.09' RT	471494.041	854219.788
2903	348+66.47'MP'	40.36' RT	471502.525	854228.993
2904	348+71.42'MP'	49.91' RT	471492.108	854230.373
2905	348+70.03'MP'	39.98' RT	471501.945	854232.170
2906	348+77.73'MP'	49.12' RT	471491.030	854236.276
2907	348+76.41'MP'	39.21' RT	471500.867	854238.072

2

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CURB RAMP DETAILS - MILLPOND RD, GOLF COURSE ACCESS	SHEET 151	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021300-CR (CURB RAMP DETAILS).DWG PLOT DATE : 3/10/2022 7:33 AM PLOT BY : SEH LAYOUT NAME : 03 PLOT SCALE : 1.0 IN = #### FT
WISDOT/CADDS SHEET 42

LEGEND

FTMS CONVENTIONAL SYMBOLS

	PROPOSED
POLE MOUNTED CABINET	
METER BREAKER PEDESTAL	
24X42-INCH CSCP PULL BOX	
FTMS (ITS) CONDUIT	
BREAKER DISCONNECT BOX	
COMMUNICATIONS VAULT, TYPE 1	
CCTV CAMERA, POLE, AND BASE	CAMERA ORIENTATION

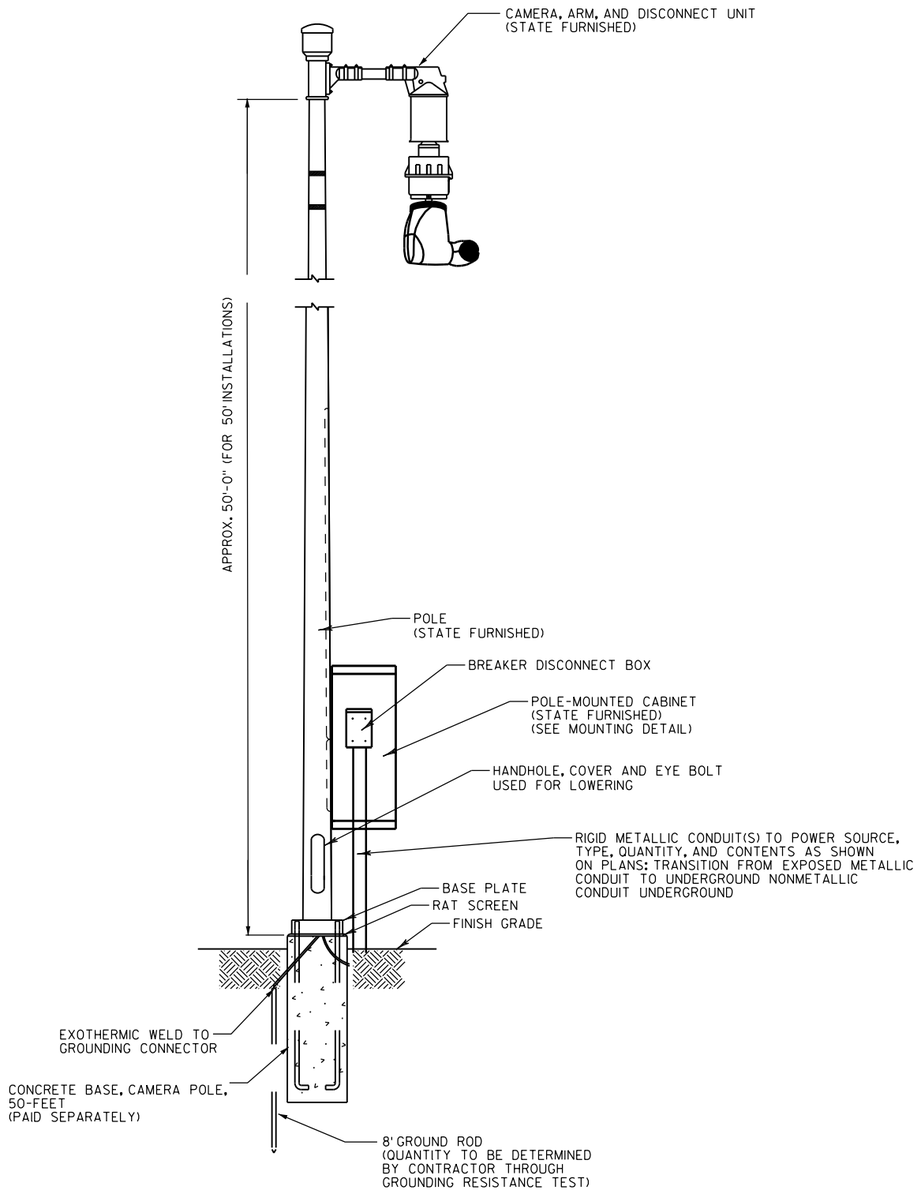
FTMS STANDARD ABBREVIATIONS

CB	CONTROLLER CABINET
CCTV	CLOSED CIRCUIT TELEVISION SITE
CV	COMMUNICATIONS VAULT
PB	PULL BOX
EX	EXISTING
FOC	FIBER OPTIC CABLE
F.O.	FIBER OPTIC
S-F	STATE-FURNISHED

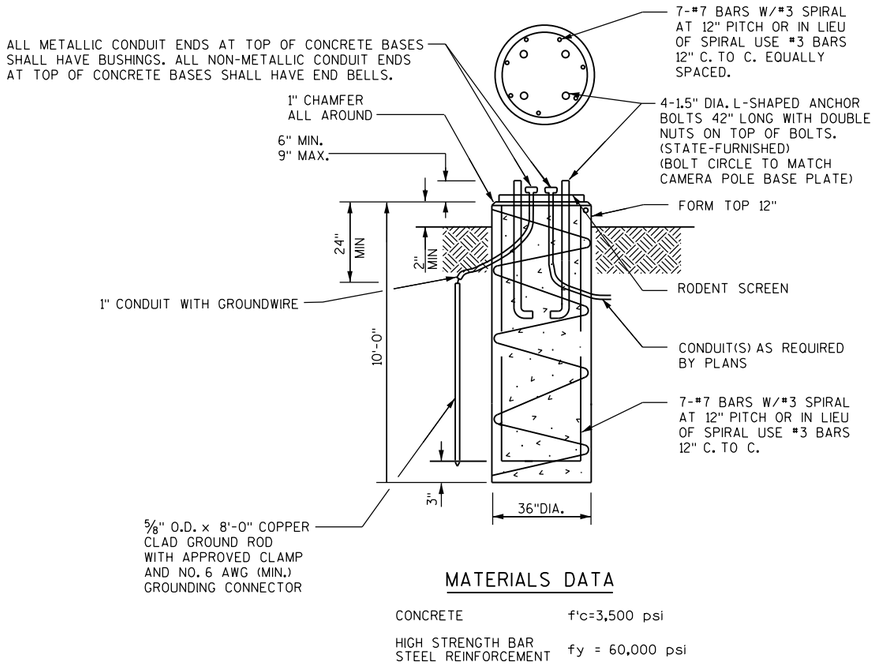
FTMS GENERAL NOTES

1. THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND TECHNICAL SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONDITIONS TO PROVIDE A COMPLETE AND ACCEPTED PROJECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR TECHNICAL SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES OTHER THAN MINOR ADJUSTMENTS.
2. BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.
3. BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUITS, PULLBOXES, POLES, CABINET FOUNDATIONS, OR OTHER EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.
4. NO TREES (AND/OR SHRUBS) SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
5. AREAS WITHIN THE RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR FTMS CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER, SEED, AND EROSION MAT, AND SHALL BE INCLUDED IN THE COST OF INSTALLING FTMS ITEMS. RESTORATION FOR AREAS DISTURBED FOR OTHER CONSTRUCTION OPERATIONS BUT ALSO CONTAINING FTMS CONSTRUCTION SHALL BE DONE ACCORDING TO REQUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS.
6. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
7. DUE TO RAMP, LANE, SHOULDER CLOSURE RESTRICTIONS, AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT.
8. THE CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTS IN THE AREA.
9. THE CONTRACTOR SHALL CONTACT THE WISDOT STATEWIDE TRAFFIC OPERATIONS CENTER AT (414) 227-2166 FIVE (5) WORKING DAYS PRIOR TO ENTERING ANY EXISTING WISDOT FTMS OR ITS CABINET.
10. ALL LOOP DETECTORS ARE STATIONED TO CENTER OF LEADING EDGE AS APPROACHED BY NORMAL VEHICLE PATH.
11. HAND DIG TRENCHES CROSSING EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE.
12. VISUALLY VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE OR SPECIAL METHOD.

2



CAMERA POLE WITH CAMERA LOWERING HARDWARE

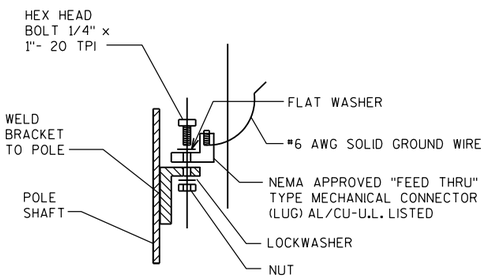


MATERIALS DATA

CONCRETE	f'c=3,500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT	fy = 60,000 psi

CONCRETE BASE, 50' CAMERA POLE

NOT TO SCALE



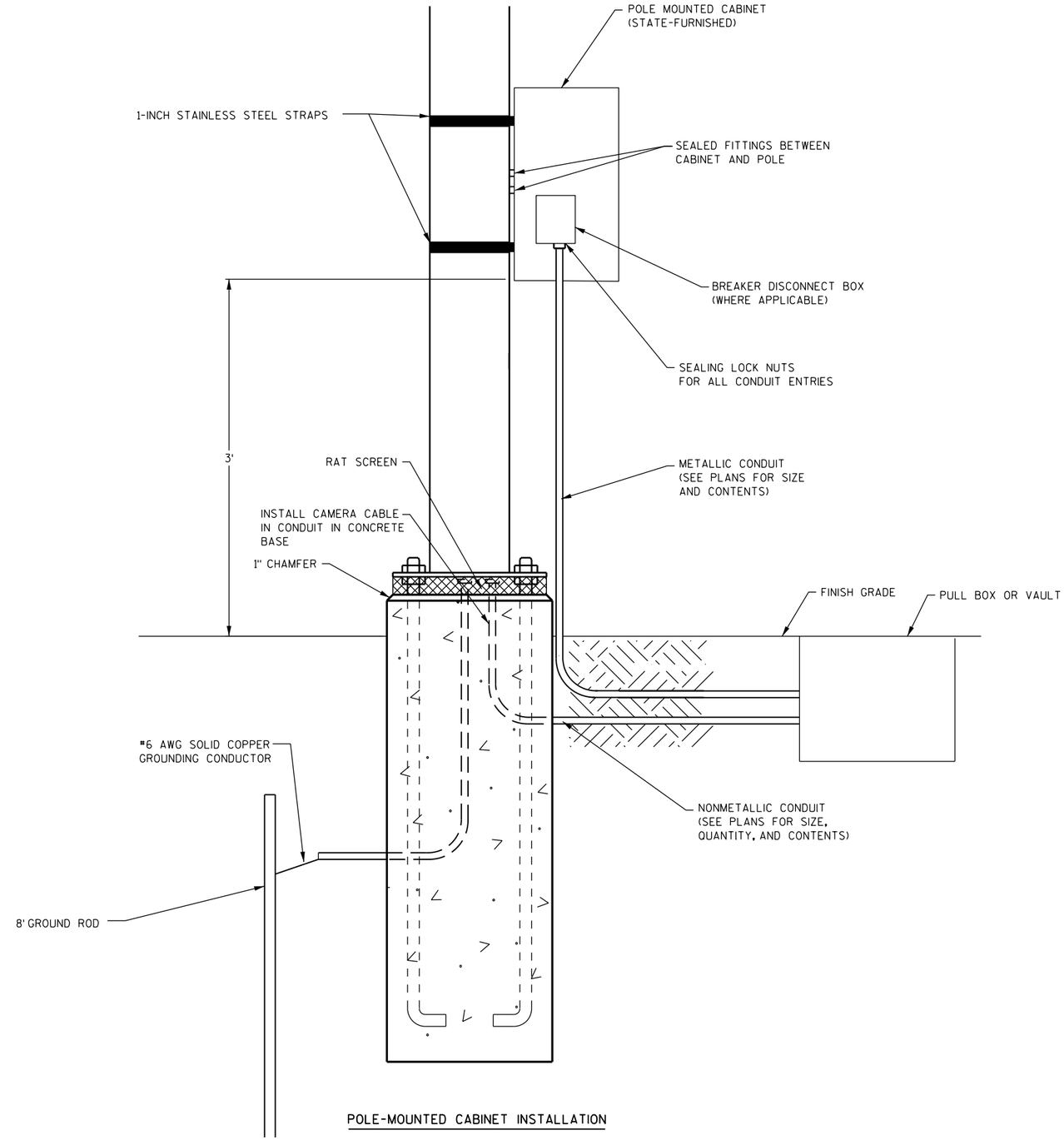
FIELD INSTALLED GROUNDING LUG

NOTES

1) ALL HARDWARE AND FASTENERS SHALL BE STAINLESS STEEL
2) POLE DRAWINGS SHOWN FOR BIDDING INFORMATION PURPOSES ONLY. POLES WILL BE STATE FURNISHED. BASE TO BE CONTRACTOR DESIGNED.
3) CONTRACTOR SHALL CONFIRM BOLT PATTERN OF CAMERA POLE PRIOR TO CONSTRUCTION OF CONCRETE BASE.
4) CONTRACTOR SHALL INSTALL GROUNDING LUG AS SHOWN

CAMERA POLES & FOUNDATIONS

2



POLE-MOUNTED CABINET INSTALLATION

2

INSTALL IN EXISTING CONDUIT
(1) 24-COUNT FOC (S-F) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

(1) 2-INCH HDPE DUCT WITH
(1) 24-COUNT FOC (S-F) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

PB447
(1) 24"x42" CSCP PULL BOX

EXCV442
(4) FIBER OPTIC SPLICES
IN EXISTING SPLICE ENCLOSURE
(PULL 100-FEET OF SLACK ON
EXISTING CABLE INTO VAULT,
CUT EXISTING CABLE
LEAVING SLACK FOR
SPLICE TO NEW CABLE TO GOLF
COURSE, AND SPLICE TO NEW
CABLE TO GOLF COURSE)

REMOVE EXISTING CABLE

COORDINATE DEPTH OF CONDUIT
WITH WATER MAIN CONSTRUCTION
TO BE DONE LATER IN PROJECT

CASING PIPE
10+20.0, 0.0'

PB445

INTERCEPT EXISTING CONDUIT WITH
NEW PULL BOX
(1) 24"X42" CSCP PULL BOX

REMOVE EXISTING CABLE

EXCV445LD

(1) INSTALL PROPOSED
CONDUIT INTO EXISTING
COMMUNICATIONS VAULT

QP446LD

CASING PIPE
11+97.0, 0.0'

(1) 2-INCH HDPE DUCT, DIRECTIONAL BORE WITH
(1) 24-COUNT FOC (S-F) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

EXCV149
CUT FIBER OPTIC CABLE IN
VAULT AND PULL SLACK
TO CV448
(1) REMOVE COMMUNICATIONS
VAULT

(1) 2-INCH HDPE DUCT WITH
(1) 144-COUNT FOC (SALVAGED) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

(1) 2-INCH HDPE DUCT , DIRECTIONAL BORE WITH
(1) 144-COUNT FOC (SALVAGED) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

REMOVE EXISTING CABLE

EXCV145
(1) REMOVE COMMUNICATIONS
VAULT

REMOVE EXISTING CABLE

CV448
INTERCEPT EXISTING CONDUIT WITH
NEW TYPE 1 COMMUNICATIONS VAULT
(1) TYPE 1 COMMUNICATIONS VAULT
(24) F.O. SPLICES IN NEW F.O. SPLICE ENCLOSURE (S-F)

YAHARA HILLS
GOLF COURSE

2

PROJECT NO: 3080-01-40/-76	HWY: US 12 / 18	COUNTY: DANE	FTMS PLAN	SHEET 155	E

2

2

169+56.82

154+25.00

COORDINATE DEPTH OF CONDUIT WITH WATER MAIN AND SANITARY SEWER CONSTRUCTION TO BE DONE LATER IN PROJECT

(1) 2-INCH HDPE DUCT, DIRECTIONAL BORE WITH (1) 144-COUNT FOC (SALVAGED) AND (1) NO. 10 AWG TRAFFIC SIGNAL WIRE

(1) 2-INCH HDPE DUCT WITH (1) 144-COUNT FOC (SALVAGED) AND (1) NO. 10 AWG TRAFFIC SIGNAL WIRE

(1) 2-INCH HDPE DUCT, DIRECTIONAL BORE WITH (1) 144-COUNT FOC (SALVAGED) AND (1) NO. 10 AWG TRAFFIC SIGNAL WIRE

COORDINATE DEPTH OF CONDUIT WITH WATER MAIN AND SANITARY SEWER CONSTRUCTION TO BE DONE LATER IN PROJECT

(1) 2-INCH HDPE DUCT, DIRECTIONAL BORE WITH (1) 144-COUNT FOC (SALVAGED) AND (1) NO. 10 AWG TRAFFIC SIGNAL WIRE

(1) 2-INCH HDPE DUCT WITH (1) 144-COUNT FOC (SALVAGED) AND (1) NO. 10 AWG TRAFFIC SIGNAL WIRE

QP156WB

QP157WB

Q9162WB

CV165WB

QP168WB

MH

INL

SAN

FO

ST

W

GOLF COURSE

GOLF GREEN

OBSCURE

PROJECT NO: 3080-01-76	HWY: US 12 / 18	COUNTY: DANE	FTMS PLAN	SHEET 156	E

FILE NAME : I:\77532\BASE\DANE_CO\30800186_US12_CTHAB_FTMS.DWG
LAYOUT NAME - Sheet - (2)

PLOT DATE : 1/28/2022 2:11 PM PLOT BY : PAUL KUTZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

EXCV540NB

REMOVE AND SALVAGE EXISTING FOC
THEN INSTALL SALVAGED FOC WHEN
CONDUIT IS INSTALLED TO CVAB185S

538+88.05, 23.97' LT

PT: 538+33

184+92.71

LANDFILL

(1) 2-INCH HDPE DUCT, DIRECTIONAL BORE WITH
(1) 144-COUNT FOC (SALVAGED) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

(1) 2-INCH HDPE DUCT WITH
(1) 144-COUNT FOC (SALVAGED) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

(1) 2-INCH HDPE DUCT, DIRECTIONAL BORE WITH
(1) 144-COUNT FOC (SALVAGED) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

DO NOT DAMAGE EXISTING
FIBER OPTIC CONDUIT AND
CABLE SYSTEM WHILE
CONSTRUCTING NEW SYSTEM

QP170WB

QP473LD

USH 12/18

169+56.82

PROJECT NO: 3080-01-76	HWY: US 12 / 18	COUNTY: DANE	FTMS PLAN	SHEET 157	E

FILE NAME : I:\77532\BASE\DANE_CO\30800186_US12_CTHAB_FTMS.DWG
LAYOUT NAME - Sheet - (3)
PLOT DATE : 1/28/2022 2:11 PM
PLOT BY : PAUL KUTZ
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

FIBER OPTIC SEQUENCING

STEP 1: CONSTRUCT NEW FIBER OPTIC DUCT SYSTEM BETWEEN EXCV445LD AND CV185S
STEP 2: CUT EXISTING FOCS AT EXISTING F.O. SPLICE ENCLOSURE IN EXCVAB185S
STEP 3: PULL EXISTING FOC NORTH TO EXCV540NB FROM EXCVAB185 AND REMOVE AND SALVAGE CABLE TO WEST TO EXCV445LD
STEP 4: REMOVE EXCVAB185
STEP 5: EXTEND EXISTING CONDUIT TO NORTH TO INTERCEPT AT CVA185S
STEP 8: REINSTALL SALVAGED FOC FROM EXCV445LD TO CVA185S
STEP 9: SPLICE CABLES BACK TOGETHER AS THEY WERE PRIOR TO BEGINNING ANY WORK ON THE SYSTEM
(STEPS 1 THROUGH 9 MUST BE COMPLETED PRIOR TO BEGINNING ANY WORK THAT MAY PUT ANY PART OF THE EXISTING FIBER OPTIC SYSTEM IN JEOPARDY.
STEPS 2 THROUGH 9 MUST BE COMPLETED WITHIN (24) HOURS AFTER CUTTING THE EXISTING CABLES IN EXCVA185)

REMOVE AND SALVAGE EXISTING FOC THEN INSTALL SALVAGED FOC WHEN CONDUIT IS INSTALLED TO CVAB185S

CVAB185S
(1) TYPE 1 COMMUNICATIONS VAULT
(76) F.O. SPLICES IN SALVAGED SPLICE ENCLOSURE
(EXTEND HDPE DUCT FROM WEST AN EXTRA 18-INCHES IN VAULT)

EXCVAB185

CVAB195
(1) TYPE 1 COMMUNICATIONS VAULT

(1) 2-INCH HDPE DUCT WITH
(1) 6-COUNT FOC (S-F) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

(1) 2-INCH HDPE DUCT, DIRECTIONAL BORE WITH
(1) 144-COUNT FOC (SALVAGED) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

DO NOT DAMAGE EXISTING FIBER OPTIC CONDUIT AND CABLE SYSTEM WHILE CONSTRUCTING NEW SYSTEM

MBCCTV130188

(1) 2-INCH NONMETALLIC CONDUIT WITH
(3) NO. 6 AWG TRAFFIC SIGNAL WIRES

(1) 2-INCH METALLIC CONDUIT WITH
(3) NO. 6 AWG TRAFFIC SIGNAL WIRES

PBAB197

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (1) 6-COUNT FOC (S-F) AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

CCTV-13-0188
(1) 50-FOOT CAMERA POLE CONCRETE BASE
(1) 50-FOOT CAMERA POLE (S-F)
(1) CCTV CAMERA (S-F)
(1) POLE-MOUNTED CABINET (S-F)
(1) ELECTRICAL SERVICE BREAKER DISCONNECT BOX
(1) 24-COUNT F.O. TERMINATION PANEL (S-F)
(6) F.O. TERMINATIONS
(1) ETHERNET SWITCH (S-F)

STORM WATER POND

USH 12/18

PROJECT NO: 3080-01-76	HWY: US 12 / 18	COUNTY: DANE	FTMS PLAN	SHEET 158	E

2

2

N

USH 12/18 WB

MAAHIC WAY

USH 12/18 EB

116'EB'

120'EB'

124'EB'

128'EB'

128'WB'

132'WB'

132'EB'

136'WB'

136'EB'

436'LD'

440'LD'

140'WB'

140'EB'

444'LD'

144'WB'

144'EB'

448'LD'

148'WB'

148'EB'

348'MP'

344'MP'

340'MP'

336'MP'

332'MP'

328'MP'

324'MP'

LONG DR

MILLPOND RD

MILLPOND RD

POND A

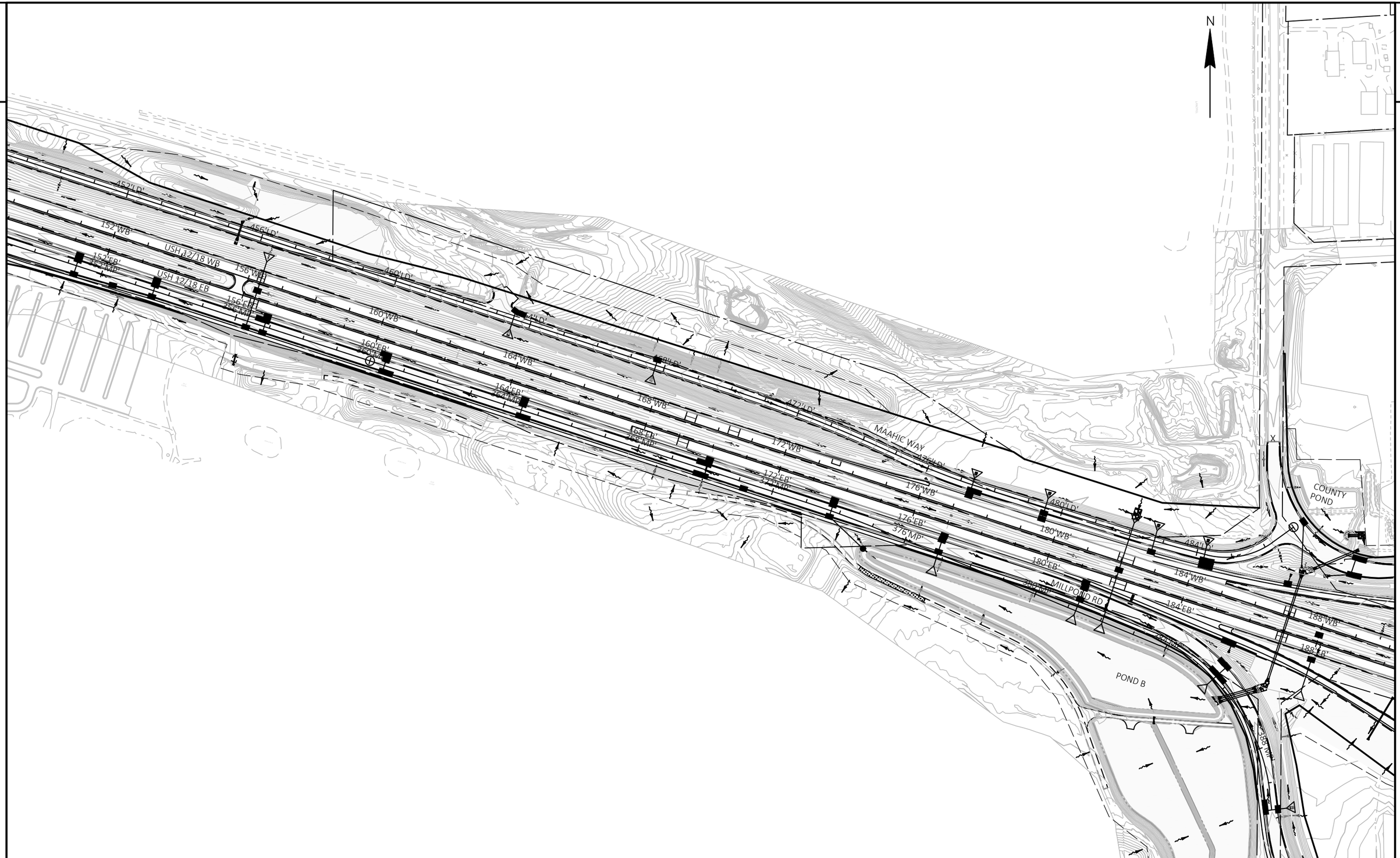
SAVANNAH RD

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PROPROSED DRAINAGE	SHEET 159	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021701_CM (DRAINAGE CONTOURS).DWG
LAYOUT NAME - 01

PLOT DATE : 1/29/2022 5:44 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:250 FT

WISDOT/CADDS SHEET 42



2

PROJECT NO: 3080-01-76	HWY:USH 12	COUNTY: DANE	PROPROSED DRAINAGE	SHEET 160 E

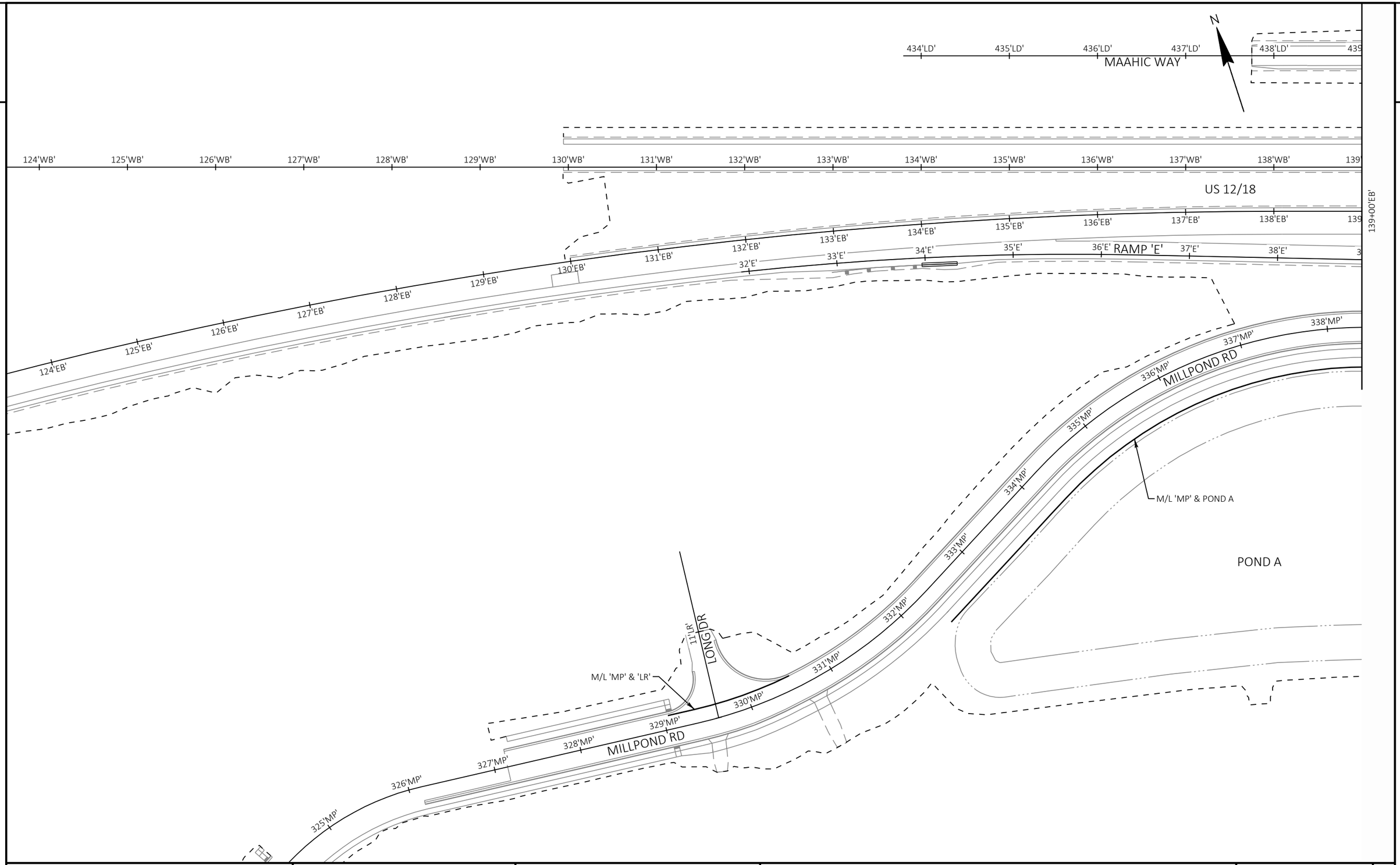
2

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PROPOSED DRAINAGE	SHEET 161	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021601_CM.DWG
LAYOUT NAME - cm_01

PLOT DATE : 1/28/2022 2:17 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:250 FT

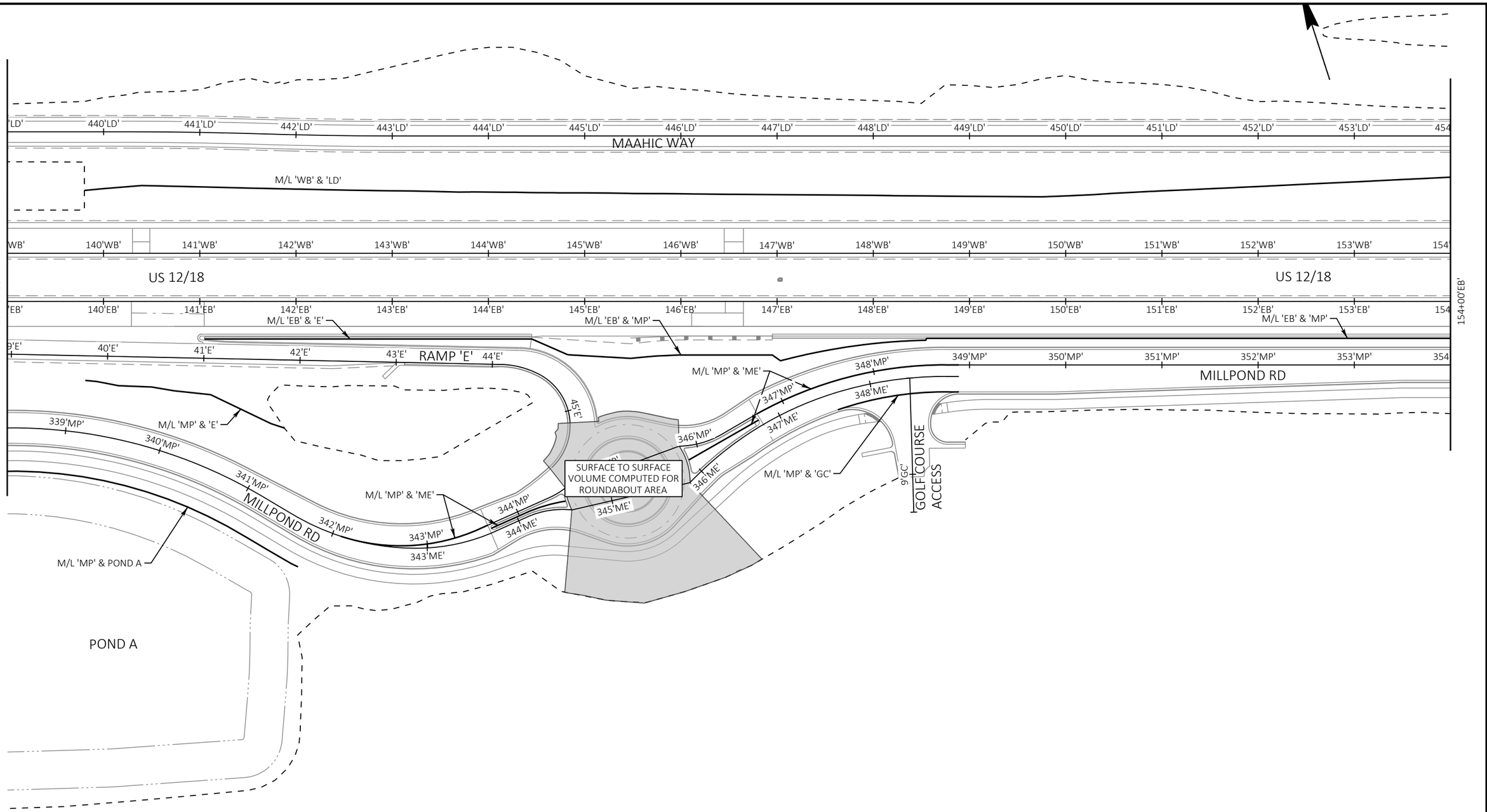
2



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTION MATCHLINES	SHEET 162	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021702_XM (MATCHLINES).DWG PLOT DATE : 5/25/2022 12:55 PM PLOT BY : DEAN STODOLA PLOT NAME : **PLOT SCALE : 1.0 IN = 100.0 FT**

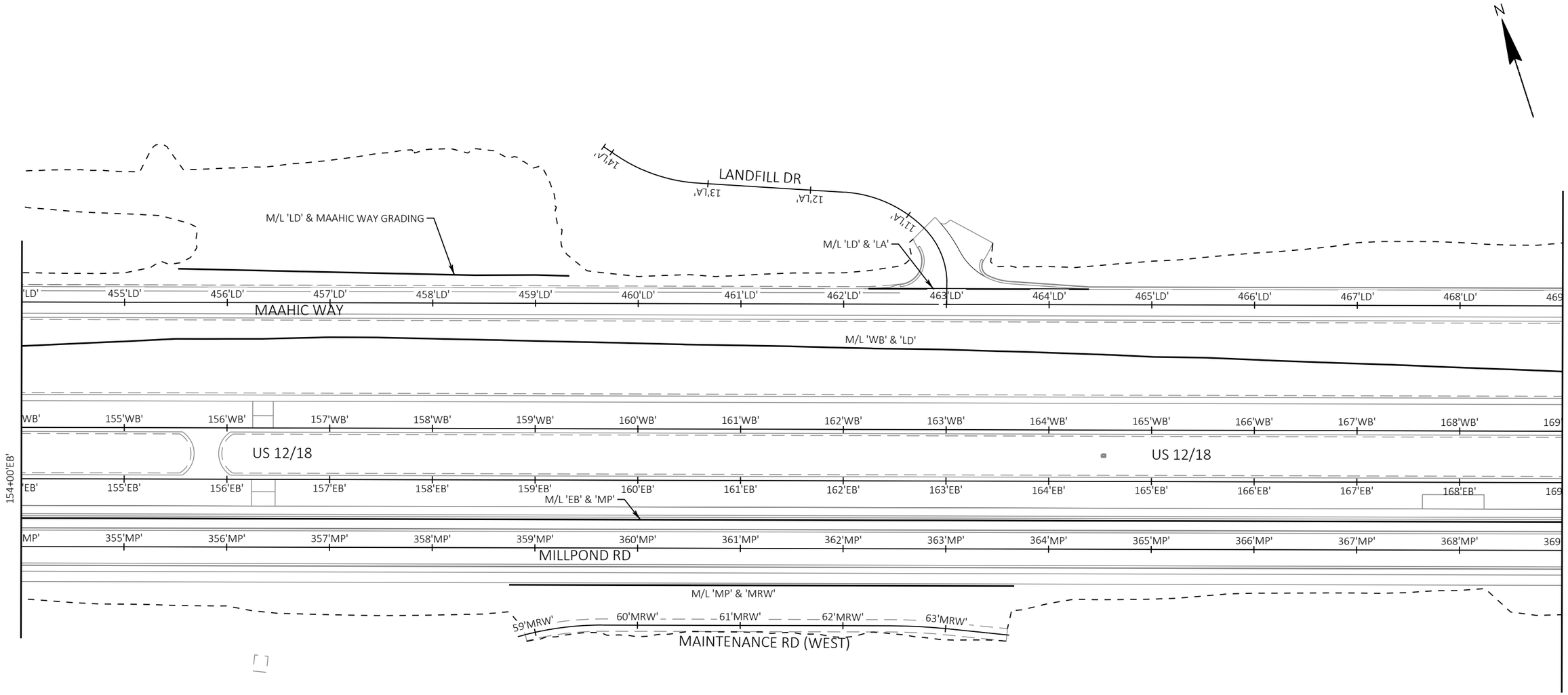
2



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTION MATCHLINES	SHEET 163	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021702_XM (MATCHLINES).DWG PLOT DATE : 1/17/2022 10:17 AM PLOT BY : GARY ELLIAS PLOT NAME : PLOT SCALE : 1.0 IN = 100.0 FT

2



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTION MATCHLINES	SHEET 164	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021702_XM (MATCHLINES).DWG PLOT DATE : 1/17/2022 10:17 AM PLOT BY : GARY ELLIAS PLOT NAME : PLOT SCALE : 1.0 IN = 100.0 FT

2

2

N

'LD' 470'LD' 471'LD' 472'LD' 473'LD' 474'LD' 475'LD' 476'LD' 477'LD' 478'LD' 479'LD' 480'LD' 481'LD' 482'LD' 483'LD' 484'

MAAHIC WAY

M/L 'WB' & 'LD'

983'D' 984

WB' 170'WB' 171'WB' 172'WB' 173'WB' 174'WB' 175'WB' 176'WB' 177'WB' 178'WB' 179'WB' 180'WB' 181'WB' 182'WB' 183'WB' 184'

US 12/18 US 12/18

169+00'EB'

EB' 170'EB' 171'EB' 172'EB' 173'EB' 174'EB' 175'EB' 176'EB' 177'EB' 178'EB' 179'EB' 180'EB' 181'EB' 182'EB' 183'EB' 184

M/L 'EB' & 'MP'

683'A' 684

M/L 'MP' & 'A'

MP' 370'MP' 371'MP' 372'MP' 373'MP' 374'MP' 375'MP' 376'MP' 377'MP' 378'MP' 379'MP' 380'MP' 381'MP' 382'MP' 383'MP' 384

MILLPOND RD

184+00'EB'

M/L 'MP' & POND B

370'MRE' 371'MRE' 372'MRE' 373'MRE' 374'MRE' 375'MRE' 376'MRE' 377'MRE' 378'MRE' 379'MRE' 380'MRE' 381'MRE' 382'MRE' 383'MRE'

M/L 'MP' & 'MRE'

POND B

MAINTENANCE RD (EAST)

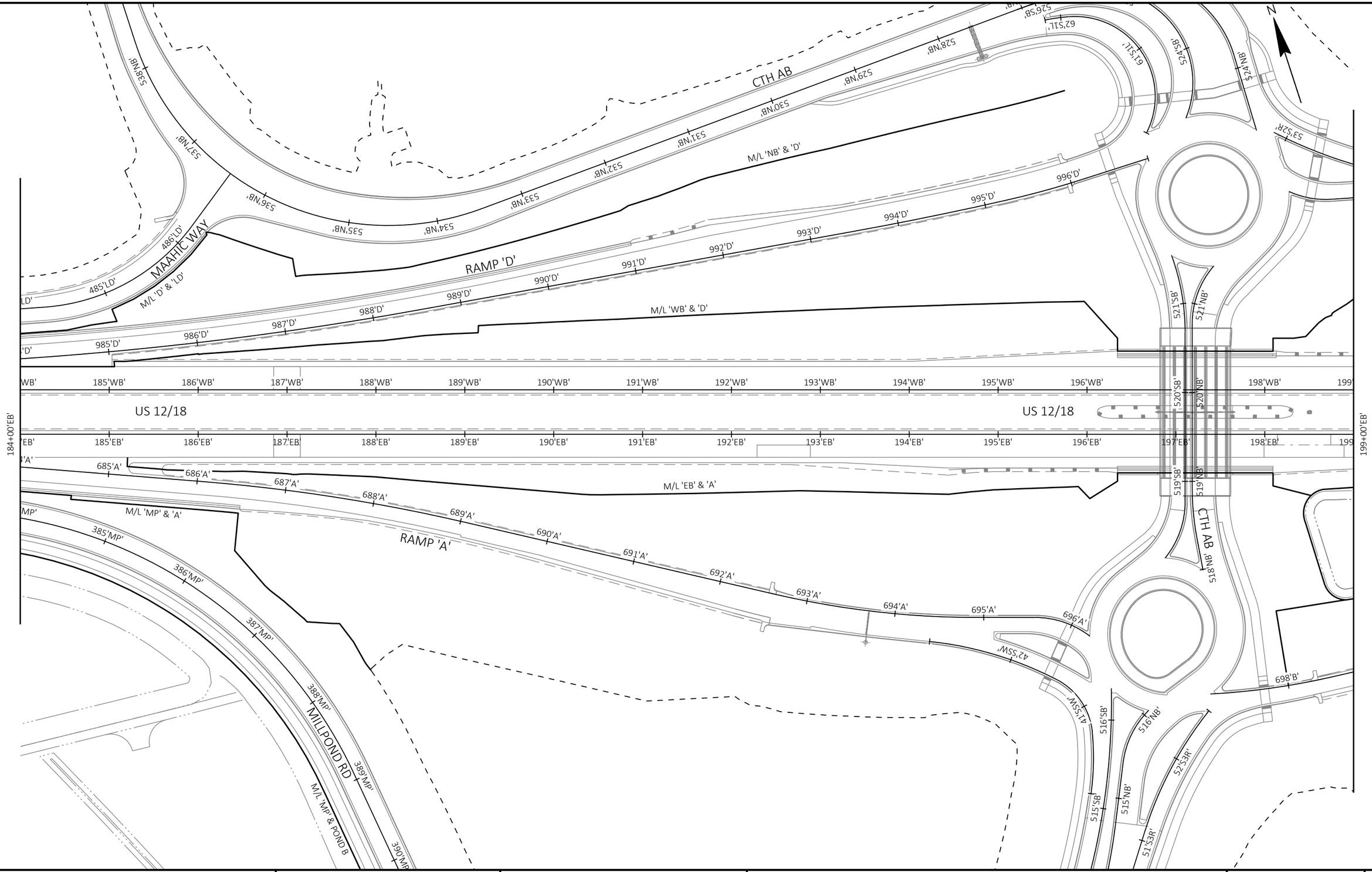
M/L 'MRE' & POND B

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTION MATCHLINES	SHEET 165	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021702_XM (MATCHLINES).DWG PLOT DATE : 1/17/2022 10:17 AM PLOT BY : GARY ELLIAS PLOT NAME : PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTION MATCHLINES	SHEET 166	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021702_XM (MATCHLINES).DWG PLOT DATE : 1/17/2022 10:17 AM PLOT BY : GARY ELLIAS PLOT NAME : PLOT SCALE : 1.0 IN = 100.0 FT

2

2

N

52'S2R'
51'S2R'
799'C'
800'C'
801'C'
802'C'
803'C'
804'C'
805'C'
806'C'
807'C'
808'C'
809'C'
810'C'
811'C'
RAMP 'C'
POND C
M/L 'WB' & POND C
M/L 'WB' & 'C'

WB' 200'WB' 201'WB' 202'WB' 203'WB' 204'WB' 205'WB' 206'WB' 207'WB' 208'WB' 209'WB' 210'WB' 211'WB' 212'WB' 213'WB' 214'WB'

US 12/18

US 12/18

199+00'EB'

'EB' 200'EB' 201'EB' 202'EB' 203'EB' 204'EB' 205'EB' 206'EB' 207'EB' 208'EB' 209'EB' 210'EB' 211'EB' 212'EB' 213'EB' 214'EB'

M/L 'EB' & POND D
POND D
M/L 'EB' & 'B'
699'B'
700'B'
701'B'
702'B'
703'B'
704'B'
705'B'
706'B'
707'B'
708'B'
709'B'
710'B'
711'B'
712'B'
RAMP 'B'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTION MATCHLINES	SHEET 167	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021702_XM (MATCHLINES).DWG PLOT DATE : 1/17/2022 10:17 AM PLOT BY : GARY ELLIAS PLOT NAME : PLOT SCALE : 1.0 IN = 100.0 FT

2

2

N

MILLPOND RD

388'MP' 389'MP' 390'MP' 391'MPW' 391'MPE' 392'MPW' 392'MPE' 393'MPW' 393'MPE' 394'MPW' 394'MPE' 395'MPW' 395'MPE' 396'MPW' 396'MPE'

M/L 'MP' & POND B

CTH AB

S00'NB' S01'NB' S01'SB' S02'NB' S02'SB' S03'NB' S03'SB' S04'NB' S04'SB' S05'NB' S05'SB' S06'NB' S06'SB' S07'NB' S07'SB'

POND B

MAINTENANCE RD (EAST)

384'MRE' 385'MRE' 386'MRE' 387'MRE' 388'MRE' 389'MRE' 390'MRE' 391'MRE'

M/L 'MRE' & POND B

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTION MATCHLINES	SHEET 168	E

2

N

MAAHIC WAY

481'LD' 482'LD' 483'LD' 484'LD' 485'LD' 489'LD'

M/L 'D' &'LD'

982'D' 983'D' 984'D' 985'D' 986'D' 987'D' 988'D' 989'D' 990'D' 991'D' 992'D' 993'D' 994'D' 995'D' 996'D'

M/L 'WB' &'D'

RAMP 'D'

M/L 'NB' &'D'

CTH AB

END CONSTRUCTION 3080-010-76
START CONSTRUCTION 3080-01-75
STA 996+03.31'D'

539'NB' 538'NB' 537'NB' 536'NB' 535'NB' 534'NB' 533'NB' 532'NB' 531'NB' 530'NB' 529'NB' 528'NB' 527'NB' 526'SB' 62'S1L' STA 527+00'NB'

181WB 182WB 183WB 184WB 185WB 186WB 187WB 188WB 189WB 190WB 191WB 192WB 193WB 194WB 195WB

US 12/18

US 12/18

181EB 182EB 183EB 184EB 185EB 186EB 187EB 188EB 189EB 190EB 191EB 192EB 193EB 194EB 195EB

681'A' 682'A' 683'A' 684'A' 685'A' 686'A' 687'A' 688'A' 689'A' 690'A' 691'A' 692'A' 693'A' 694'A' 695'A' 696'A'

382'MPE' 383'MPE' 384'MPE' 385'MPE' 386'MPE' 387'MPE' 388'MPE' 389'MPE'

M/L 'MP' &'A'

MILLPOND ROAD

POND B

M/L 'EB' &'A'

RAMP 'A'

END CONSTRUCTION 3080-010-76
START CONSTRUCTION 3080-01-75
STA 695+11.51'A'

42'SSW' 41'SSW' STA 516+00'SB

M/L 'A' & 'SSW'

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTION MATCHLINES	SHEET 169	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021701_XM.DWG
LAYOUT NAME - ML_01

PLOT DATE : 1/10/2022 10:47 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

M/L 'SB' & 'S1L'

M/L 'NB' & 'SB'

CTH AB

526'NB'

527'NB'

526'SB'

STA 527+00'NB'

525'NB'

525'SB'

62'S1L'

524'SB'

61'S1L'

524'NB'

END CONSTRUCTION 3080-010-75
START CONSTRUCTION 3080-01-76
STA 799+20.90'C'

53'S2R'

52'S2R'

51'S2R'

799'C'

801'C'

802'C'

803'C'

804'C'

805'C'

806'C'

807'C'

808'C'

809'C'

810'C'

RAMP 'C'

RAMP 'D'

966'D'

995'D'

SURFACE TO SURFACE VOLUME COMPUTED FOR ROUNDABOUT AREA

M/L 'C' & POND C

M/L 'C' & 'S2R'

POND C

M/L 'WB' &'D'

STA 521+25'SB'

521'SB'

521'NB'

STA 520+60'SB'

STA 520+60'NB'

M/L 'WB' &'C'

195WB 196WB 198WB 199WB 200WB 201WB 202WB 203WB 204WB 205WB 206WB 207WB 208WB 209WB 210WB

US 12/18

US 12/18

MSE BACKFILL

520'SB'

520'NB'

CTH AB

195EB 196EB 197EB 198EB 199EB 200EB 201EB 202EB 203EB 204EB 205EB 206EB 207EB 208EB 209EB 210EB

519'SB'

519'NB'

STA 518+95'SB'

STA 518+95'NB'

M/L 'EB' &'A'

M/L 'NB' & 'SB'

M/L 'A' & 'SSW'

518'NB'

M/L 'NB' & POND D

POND D

M/L 'B' & POND D

M/L 'EB' &'B'

710'B'

709'B'

708'B'

707'B'

706'B'

705'B'

704'B'

703'B'

702'B'

701'B'

700'B'

699'B'

698'B'

RAMP 'B'

695'A'

969'A'

SURFACE TO SURFACE VOLUME COMPUTED FOR ROUNDABOUT AREA

42'SSW'

RAMP 'A'

41'SSW'

516'SB'

516'NB'

STA 516+00'SB'

STA 515+90'NB'

52'S3R'

STA 52+50'S3R'

END CONSTRUCTION 3080-010-75
START CONSTRUCTION 3080-01-76
STA 698+25.93'B'

M/L 'NB' & 'SB'

M/L 'NB' & 'S3R'

515'SB'

515'NB'

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTION MATCHLINES	SHEET 170	E

2

2

END CONSTRUCTION 3080-01-76
BEGIN CONSTRUCTION 3080-01-75
394+07.07'MPE'

MILLPOND ROAD

RAMP 'A'

M/L 'MPE' & 'MPW'

STA 395+50'MPE'

STA 396+00'MPW'

STA 507+50'SB'

STA 507+00'NB'

SURFACE TO SURFACE
VOLUME COMPUTED FOR
ROUNDABOUT AREA

STA 510+25'SB'

M/L 'NB' & 'SB'

M/L 'S5L' & 'S5R'

STA 398+50'S5R'

STA 399+00'S5R'

STA 509+50'NB'

CTH AB

US 12/18

M/L 'NB' & 'S3R'

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTION MATCHLINES	SHEET 171	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_021701_XM.DWG
LAYOUT NAME - ML_03
PLOT DATE : 1/10/2022 10:47 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

EROSION CONTROL LEGEND

- EROSION MAT CLASS II TYPE B
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION ⒶⒷⒸ OR Ⓓ
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- COMPOST TUBES

EROSION CONTROL NOTES:

PLACE SALVAGED TOPSOIL, SEED, FERTILIZER AND MULCH WITHIN ANY SURFACE SLOPE INTERCEPT AREAS THAT DO NOT USE EROSION MAT.

DO NOT DRIVE EQUIPMENT OR STORE EQUIPMENT OR MATERIALS IN WETLANDS OR WATERWAYS.

WHEN INLET PROTECTION TYPE A, B OR A,C ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND USE TYPE B OR C AFTER THE INLET CASTINGS ARE IN PLACE.

PLACE SILT FENCE TWO FEET FROM THE SLOPE INTERCEPT WHERE APPROPRIATE.

N

WB TO NB EXIT RAMP

116'WB'

118'WB'

USH 12/18 WB

120'WB'

122'WB'

EB TO NB EXIT RAMP

RIPRAP

DELINEATED WETLANDS (TYP)
NOTE, GRAY SHADE DENOTES
PERMITTED WETLAND IMPACT

BEGIN PROJECT 3080-01-76
STA 122+46'EB'

BEGIN EB CONSTRUCTION
STA 118+59'EB'

110'EB'

112'EB'

114'EB'

USH 12/18 EB

116'EB'

118'EB'

120'EB'

122'EB'

124

124+00'EB'

NB TO EB ENTRANCE RAMP

EXISTING R/W (TYP)

SLOPE INTERCEPT (TYP)

TLE

PROPOSED R/W (TYP)

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	EROSION CONTROL PLAN	SHEET 172	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022000-EC (EROS CNTRL PLAN).DWG
PLOT DATE : 4/26/2022 8:26 AM
PLOT BY : SEH
LAYOUT NAME : 01
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

N

USH 12/18 WB

124'WB' 126'WB' 128'WB' 130'WB' 132'WB' 134'WB' 136'WB' 138'WB'

USH 12/18 EB

124'EB' 126'EB' 128'EB' 130'EB' 132'EB' 134'EB' 136'EB' 138'EB'

124+00'EB'

139+00'EB'

32'E' 34'E' 36'E' 38'E'

LONG DR

MILLPOND RD

RIPRAP MEDIUM
7'X14'

SEEDING NATIVE POLLINATOR
MIX UPLAND AND MIX SWALE AREA
(CONSTRUCT IN STAGE 1C)

RIPRAP MEDIUM
6'X12'

SOD EROSION
CONTROL
(SEE DETAIL)

SOD EROSION
CONTROL
(SEE DETAIL)

POND BOTTOM
ELEV 853.00

POND A

DELINEATED WETLANDS (TYP)
NOTE, GRAY SHADE DENOTES
PERMITTED WETLAND IMPACT

NORMAL WATER SURFACE
ELEV 859.00

RIPRAP MEDIUM
W1=12', W2=24'
H=17'

EXISTING R/W (TYP)

SLOPE INTERCEPT (TYP)

TLE

PROPOSED R/W (TYP)

326'MP' 328'MP' 330'MP' 332'MP' 334'MP' 336'MP' 338'MP'

324'MP'

BEGIN MULTI-USE PATH CONSTRUCTION
STA 323+99 RT

EROSION CONTROL LEGEND

- EROSION MAT CLASS II TYPE B
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION ⒶⒷⒸ OR Ⓓ
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- COMPOST TUBES

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	EROSION CONTROL PLAN	SHEET 173	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022000-EC (EROS CNTRL PLAN).DWG PLOT DATE : 5/25/2022 1:18 PM PLOT BY : SEH LAYOUT NAME : 02 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

SLOPE INTERCEPT (TYP)

DANE CO LANDFILL ACCESS

N

440'LD' 442'LD' 444'LD' 446'LD' 448'LD' 450'LD' 452'LD' 454

US 12 & 18 SERVICE RD

RIPRAP MEDIUM
7'X24'

140'WB' 142'WB' 144'WB' 146'WB' 148'WB' 150'WB' 152'WB' 154

USH 12/18 WB

139+00'EB'

140'EB' 142'EB' 144'EB' 146'EB' 148'EB' 150'EB' 152'EB' 154

USH 12/18 EB

154+00'EB'

EB EXIT RAMP 40'E' 42'E' 44'E'

348'MP' 350'MP' 352'MP' 354

MILLPOND RD

340'MP'

MILLPOND RD

342'MP' 344'MP' 346'MP'

RIPRAP MEDIUM
6'X18'

POND BOTTOM
ELEV 853.00

RIPRAP MEDIUM
6'X12'

RIPRAP MEDIUM
12'X24'

POND A

DELINEATED WETLANDS (TYP)
NOTE, GRAY SHADE DENOTES
PERMITTED WETLAND IMPACT

NORMAL WATER SURFACE
ELEV 859.00

SLOPE INTERCEPT (TYP)

EXISTING R/W (TYP)

PROPOSED R/W (TYP)

TLE

GOLF COURSE ACCESS

EROSION CONTROL LEGEND

- EROSION MAT CLASS II TYPE B
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION (A)(B)(C) OR (D)
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- COMPOST TUBES

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	EROSION CONTROL PLAN	SHEET 174	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022000-EC (EROS CNTRL PLAN).DWG PLOT DATE : 4/26/2022 8:27 AM PLOT BY : SEH LAYOUT NAME : 03 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

DELINEATED WETLANDS (TYP)
NOTE, GRAY SHADE DENOTES
PERMITTED WETLAND IMPACT

SLOPE INTERCEPT (TYP)

DANE CO LANDFILL ACCESS

LANDFILL DR

TLE (TYP)

PROPOSED R/W (TYP)

RIPRAP MEDIUM
7'X13'

RIPRAP MEDIUM
6'X16'

EXISTING R/W (TYP)

MAAHIC WAY

RIPRAP MEDIUM
6'X12'

USH 12/18 WB

USH 12/18 EB

MILLPOND RD

MAINTENANCE RD (WEST)

154+00'EB'

169+00'EB'

EROSION CONTROL LEGEND

- EROSION MAT CLASS II TYPE B
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION (A)(B)(C) OR (D)
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- COMPOST TUBES

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	EROSION CONTROL PLAN	SHEET 175	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022000-EC (EROS CNTRL PLAN).DWG
PLOT DATE : 4/26/2022 8:27 AM
PLOT BY : SEH
LAYOUT NAME : 04
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

2

N

LANDFILL

DELINEATED WETLANDS (TYP)
NOTE, GRAY SHADE DENOTES
PERMITTED WETLAND IMPACT

PROPOSED R/W (TYP)

SLOPE INTERCEPT (TYP)

RIPRAP MEDIUM
6'X12'

EXISTING R/W (TYP)

RIPRAP MEDIUM
6'X12'

RIPRAP MEDIUM
19'X34'

RIPRAP MEDIUM
6'X12'

470'LD'
472'LD'
474'LD'
476'LD'
478'LD'
480'LD'
482'LD'
484'

MAAHIC WAY

USH 12/18 WB

170'WB' 172'WB' 174'WB' 176'WB' 178'WB' 180'WB' 182'WB' 184'

169+00'EB'

184+00'EB'

USH 12/18 EB

170'EB' 172'EB' 174'EB' 176'EB' 178'EB' 180'EB' 182'EB' 184'

370'MP' 372'MP' 374'MP' 376'MP' 378'MP' 380'MP' 382'MP' 384'

MILLPOND RD

372'MRE'
374'MRE'
376'MRE'
378'MRE'
380'MRE'
382'MRE'

POND BOTTOM
ELEV 865.00

POND B

NORMAL WATER SURFACE
ELEV 831.00

MAINTENANCE RD (EAST)

EMERGENCY
OVERFLOW WEIR

TLE (TYP)

SLOPE INTERCEPT (TYP)

POND B

EROSION CONTROL LEGEND

- EROSION MAT CLASS II TYPE B
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION (A)(B)(C) OR (D)
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- COMPOST TUBES

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	EROSION CONTROL PLAN	SHEET 176	E

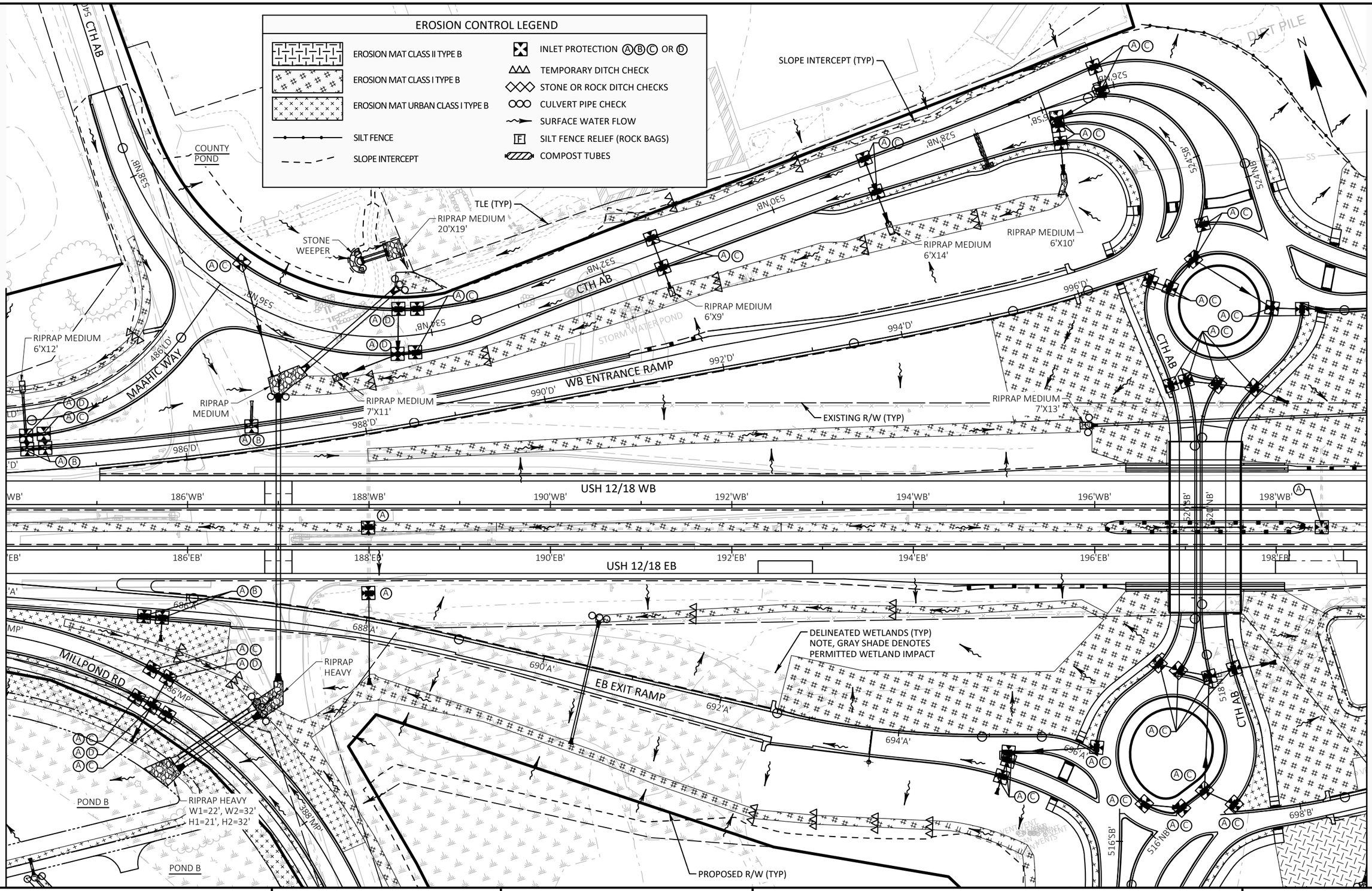
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022000-EC (EROS CNTRL PLAN).DWG PLOT DATE : 4/26/2022 8:28 AM PLOT BY : SEH LAYOUT NAME : 05 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

EROSION CONTROL LEGEND

- EROSION MAT CLASS II TYPE B
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION (A)(B)(C) OR (D)
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- (F) SILT FENCE RELIEF (ROCK BAGS)
- COMPOST TUBES



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	EROSION CONTROL PLAN	SHEET 177	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022000-EC (EROS CNTRL PLAN).DWG PLOT DATE : 4/26/2022 8:29 AM PLOT BY : SEH LAYOUT NAME : 06 PLOT SCALE : 1.0 IN = 100.0 FT

2

2

N

INLET

SS

799

800'C'

802'C'

804'C'

806'C'

808'C'

810'C'

RIPRAP MEDIUM
7'X21'

RIPRAP MEDIUM
7'X24'

RIPRAP MEDIUM
12'X134'

RIPRAP MEDIUM
7'X14'

POND C

RIPRAP MEDIUM
6'X12'

WB EXIT RAMP

USH 12/18 WB

200'WB' 202'WB' 204'WB' 206'WB' 208'WB' 210'WB' 212'WB' 214

199+00'EB'

214+00'EB'

200'EB' 202'EB' 204'EB' 206'EB' 208'EB' 210'EB' 212'EB' 214

USH 12/18 EB

RIPRAP MEDIUM
6'X12'

712'B'

710'B'

708'B'

706'B'

704'B'

702'B'

700'B'

POND D

EXISTING R/W (TYP)

EB ENTRANCE RAMP

SLOPE INTERCEPT (TYP)

RIPRAP MEDIUM
8'X16'

RIPRAP MEDIUM
7'X14'

12'

RIPRAP MEDIUM
12'X345'

PROPOSED R/W (TYP)

25'

23'

55'

26'

RIPRAP MEDIUM
12'X45'

RIPRAP MEDIUM

EROSION CONTROL LEGEND

- EROSION MAT CLASS II TYPE B
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION (A)(B)(C) OR (D)
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- COMPOST TUBES

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	EROSION CONTROL PLAN	SHEET 178	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022000-EC (EROS CNTRL PLAN).DWG PLOT DATE : 4/26/2022 8:29 AM PLOT BY : SEH LAYOUT NAME : 07 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

2

N

DELINEATED WETLANDS (TYP)
NOTE, GRAY SHADE DENOTES
PERMITTED WETLAND IMPACT

WB' 216'WB' 218'WB' 220'WB' 222'WB' USH 12/18 WB 224'WB' 226'WB' 228'WB'

214+00'EB'

'EB' 216'EB' 218'EB' 220'EB' 222'EB' USH 12/18 EB 224'EB' 226'EB' 228'EB'

EXISTING R/W (TYP)

SLOPE INTERCEPT (TYP)

UNT TO DOOR CREEK

SIGN

FLAG

EROSION CONTROL LEGEND

- EROSION MAT CLASS II TYPE B
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION (A)(B)(C) OR (D)
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- COMPOST TUBES

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	EROSION CONTROL PLAN	SHEET 179	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022000-EC (EROS CNTRL PLAN).DWG PLOT DATE : 4/26/2022 8:30 AM PLOT BY : SEH LAYOUT NAME : 08 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

N

EROSION CONTROL LEGEND

- EROSION MAT CLASS II TYPE B
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION (A)(B)(C) OR (D)
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- COMPOST TUBES

390'MRE'
396'MPW'
396'MRE'
MILLPOND RD
510'SB
510'NB'
790
WELL
RIPRAP MEDIUM
7'X21'
506'SB
506'NB'
CTH AB
504'SB
504'NB'
502'SB
502'NB'
500'SB
500'NB'
POSTS
POSTS

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	EROSION CONTROL PLAN	SHEET 180	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022000-EC (EROS CNTRL PLAN).DWG | PLOT DATE : 4/26/2022 8:30 AM | PLOT BY : SEH | LAYOUT NAME : 10 | PLOT SCALE : 1.0 IN = 100.0 FT

2

POND B

RIPRAP HEAVY
W1=22', W2=32'
H1=21', H2=32'

POND B

386'MPW'

PROPOSED R/W (TYP)

RIPRAP MEDIUM
6'X13'

390'MRE'

MILLPOND RD

RIPRAP MEDIUM
6'X15'

386'MRE'

386'MPW'

394'MPW'

394'MRE'

RIPRAP MEDIUM
6'X32'

RIPRAP HEAVY
11'X30'

RIPRAP MEDIUM
7'X16'

396'MPW'

396'MRE'

MILLPOND RD

RIPRAP MEDIUM
7'X21'

406'SB

406'NB'

386'MPW'

386'MRE'

390'MRE'

N

516'SB'

516'NB'

698'B'

514'SB'

514'NB'

512'SB

512'NB'

CTH AB

510'SB

510'NB'

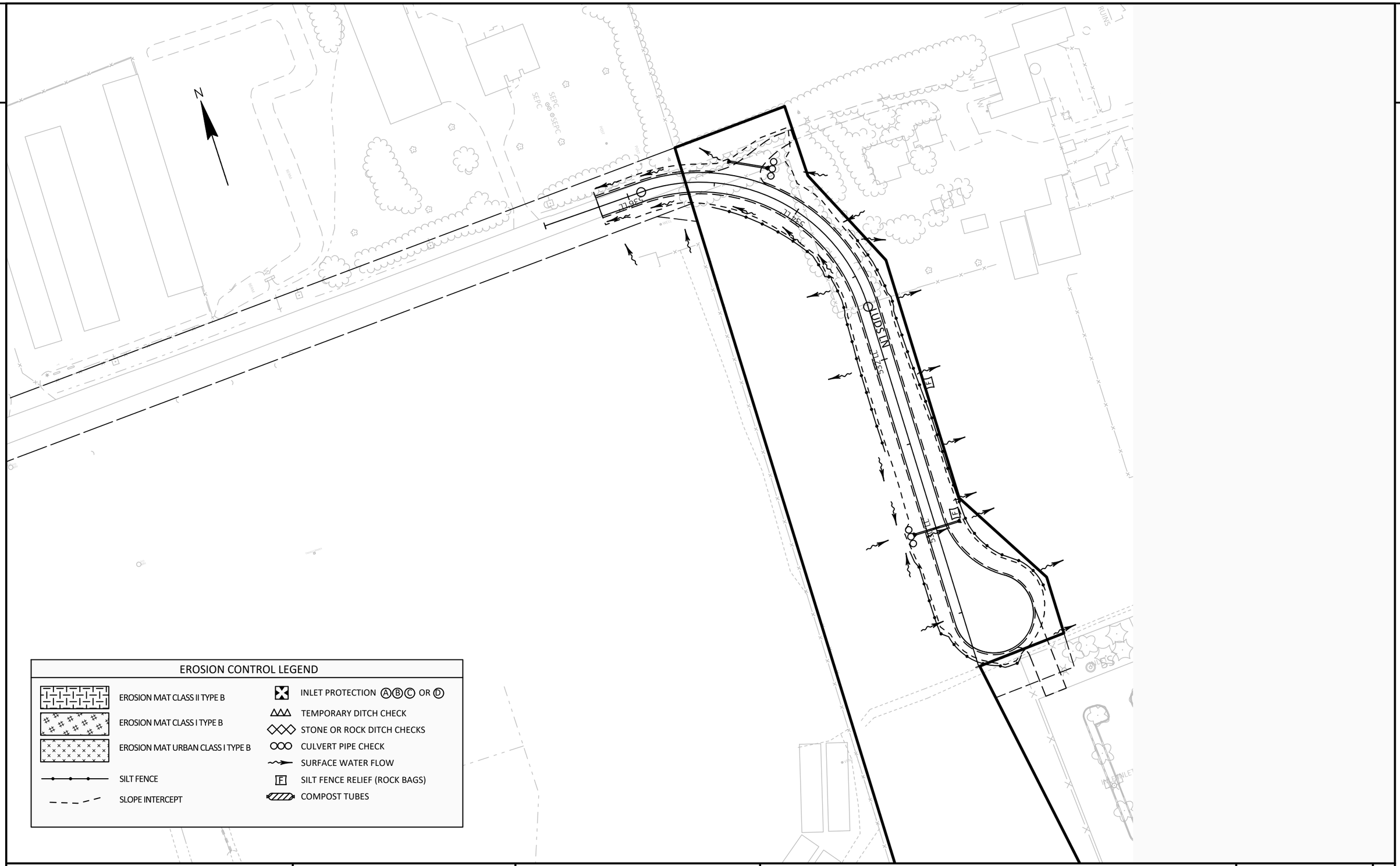
EROSION CONTROL LEGEND

- EROSION MAT CLASS II TYPE B
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION (A)(B)(C) OR (D)
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- COMPOST TUBES

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	EROSION CONTROL PLAN	SHEET 181	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022000-EC (EROS CNTRL PLAN).DWG
PLOT DATE : 4/26/2022 8:31 AM
PLOT BY : SEH
LAYOUT NAME : 09
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

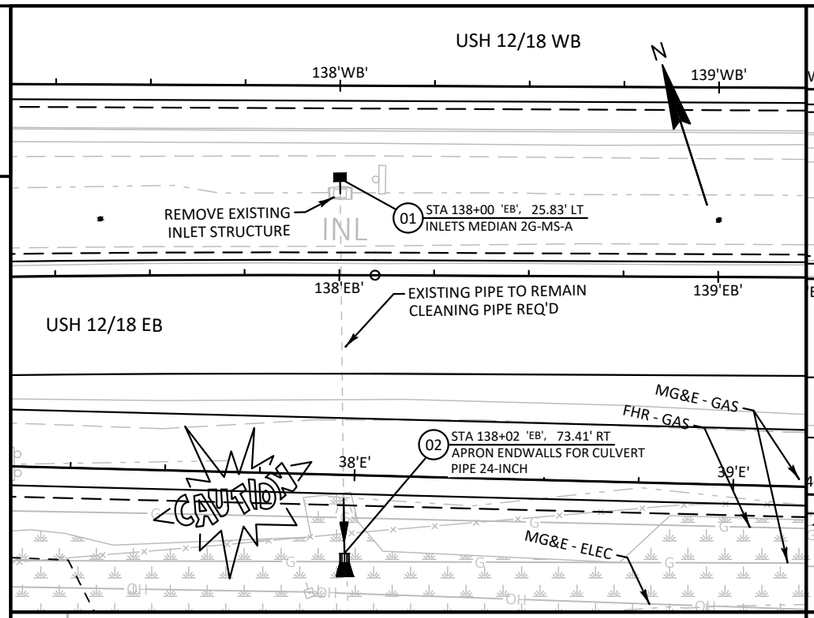


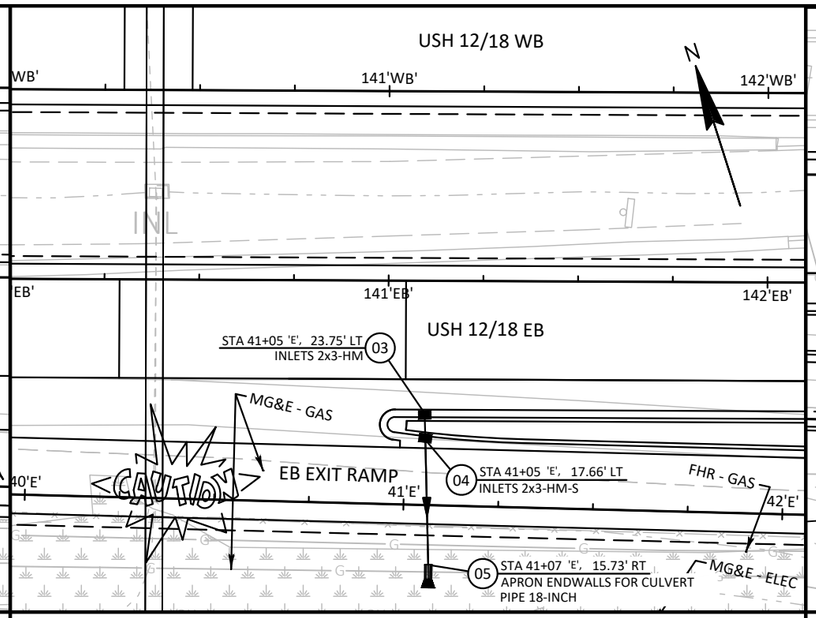
EROSION CONTROL LEGEND

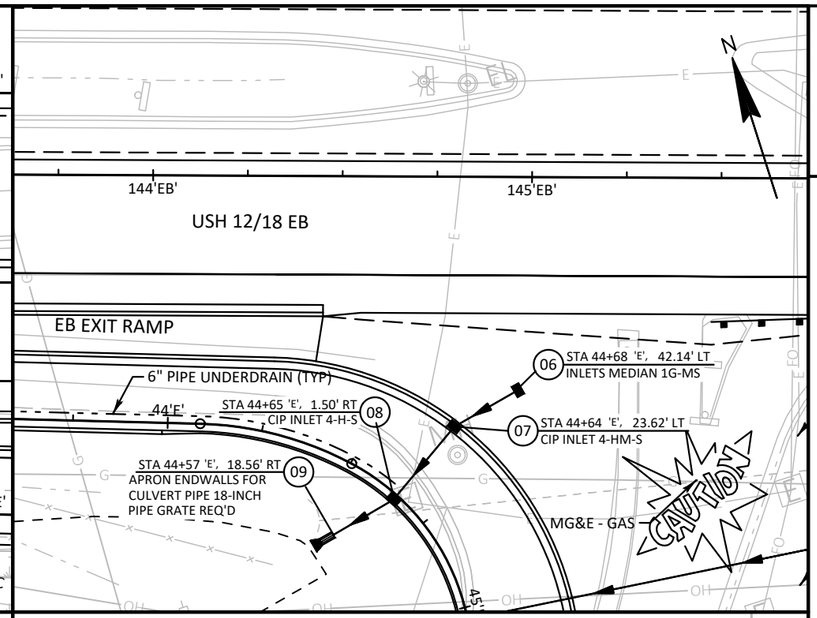
- EROSION MAT CLASS II TYPE B
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION (A)(B)(C) OR (D)
- TEMPORARY DITCH CHECK
- STONE OR ROCK DITCH CHECKS
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- COMPOST TUBES

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	EROSION CONTROL PLAN	SHEET 182	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022000-EC (EROS CNTRL PLAN).DWG
PLOT DATE : 4/26/2022 8:31 AM
PLOT BY : SEH
LAYOUT NAME : 11
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42



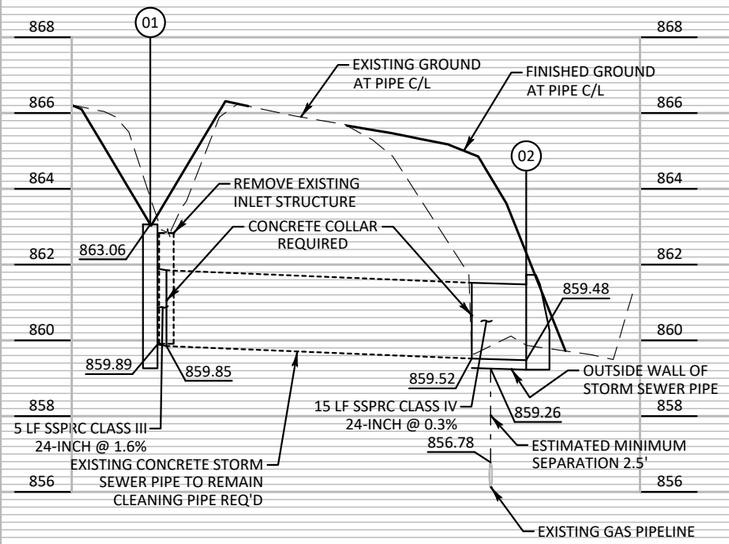


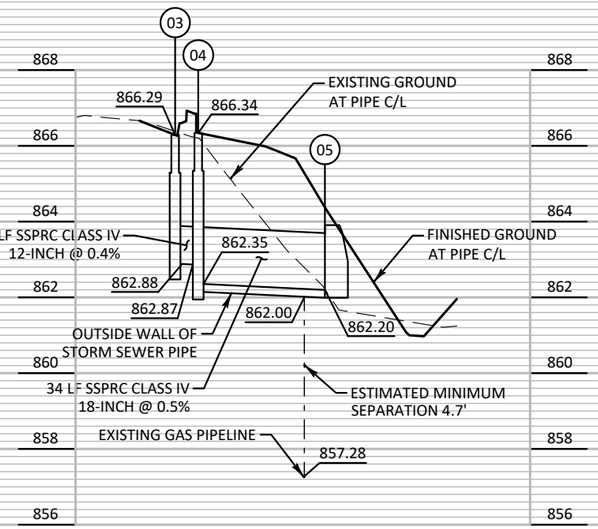


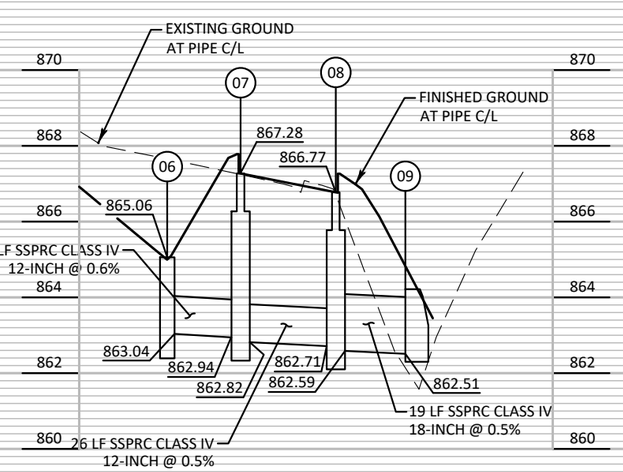
NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

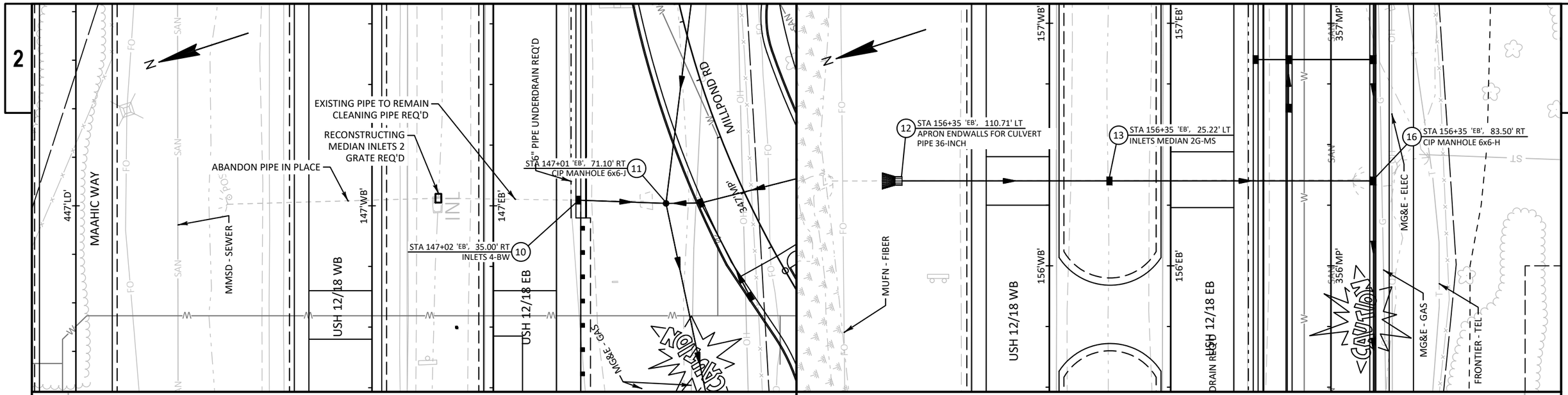
H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.







PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 183	E



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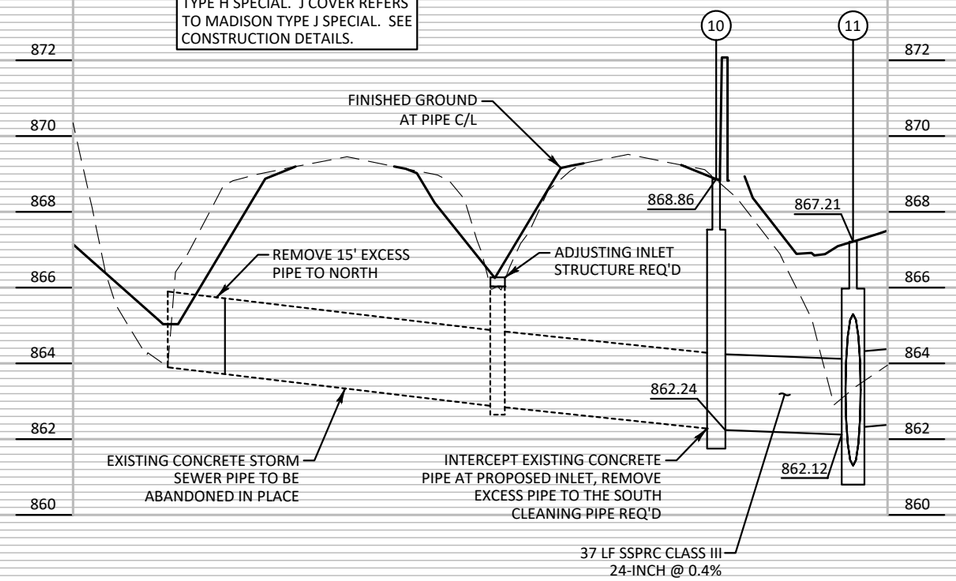
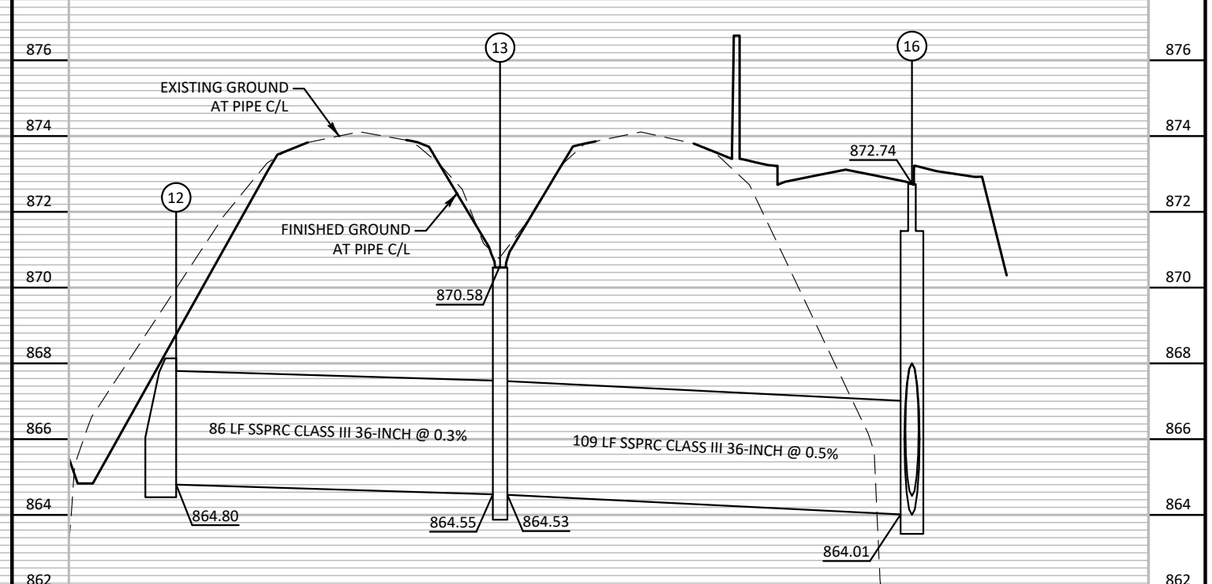
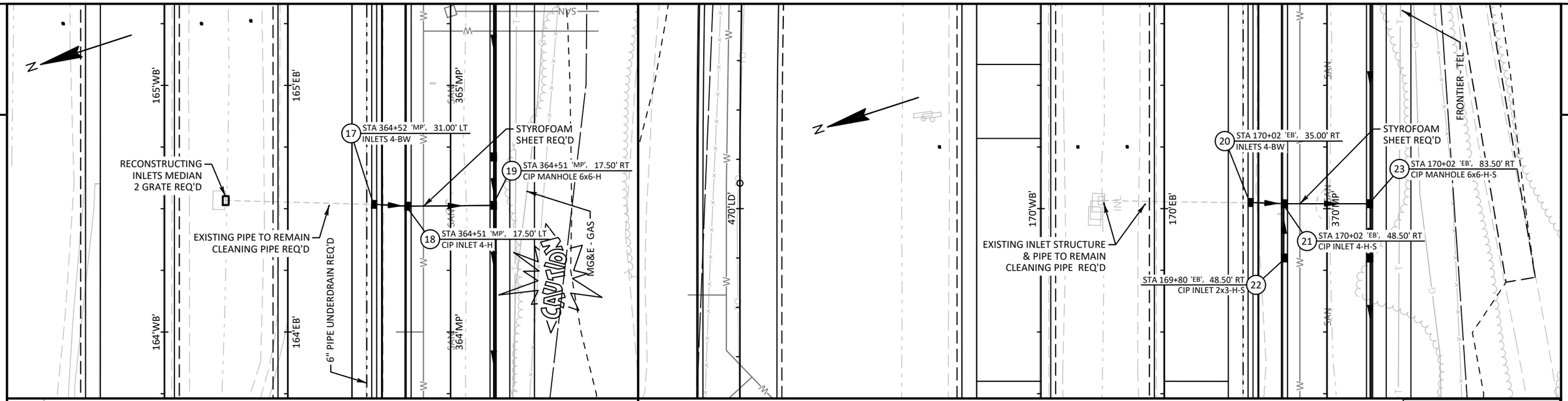
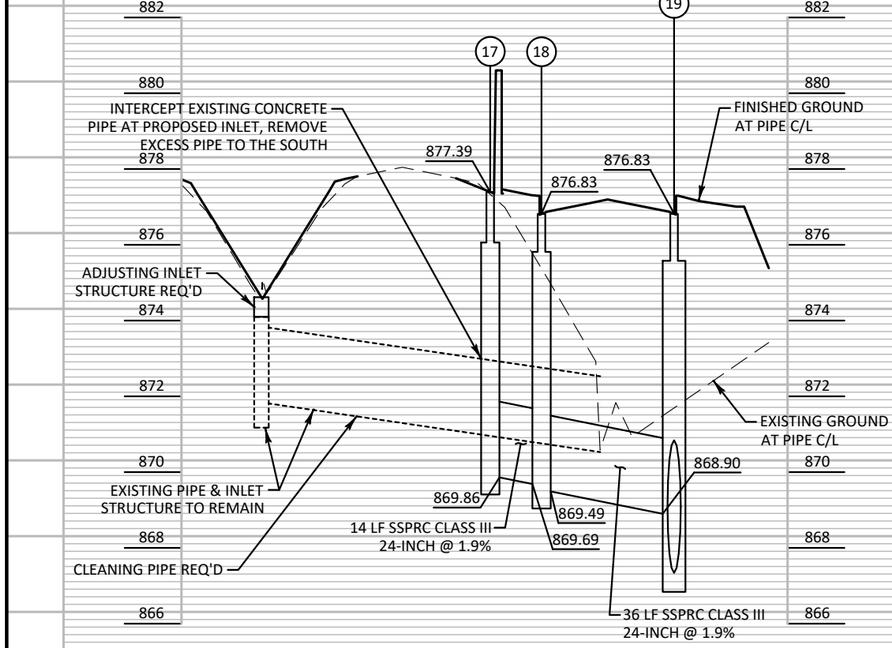
H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.

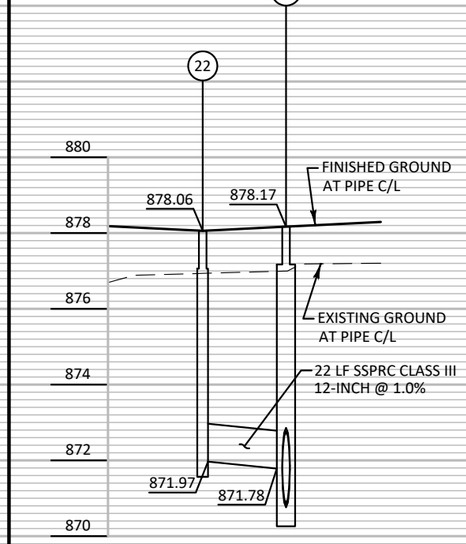


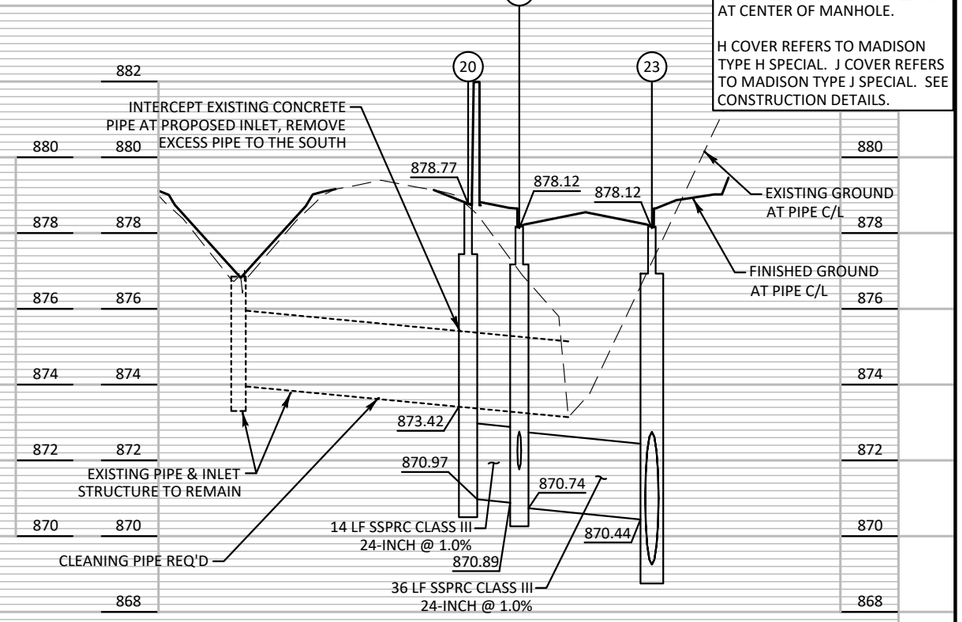


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 184 E







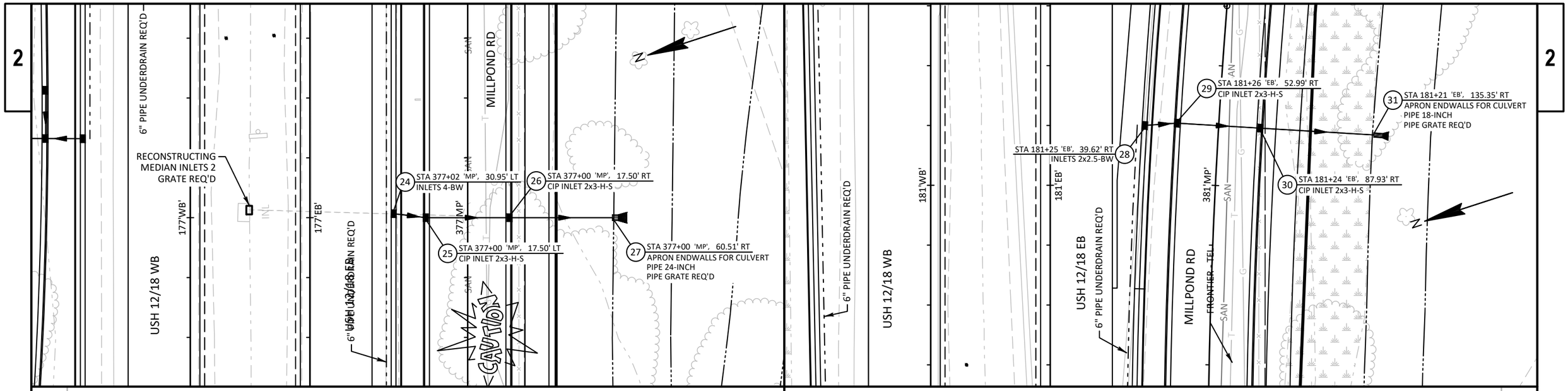


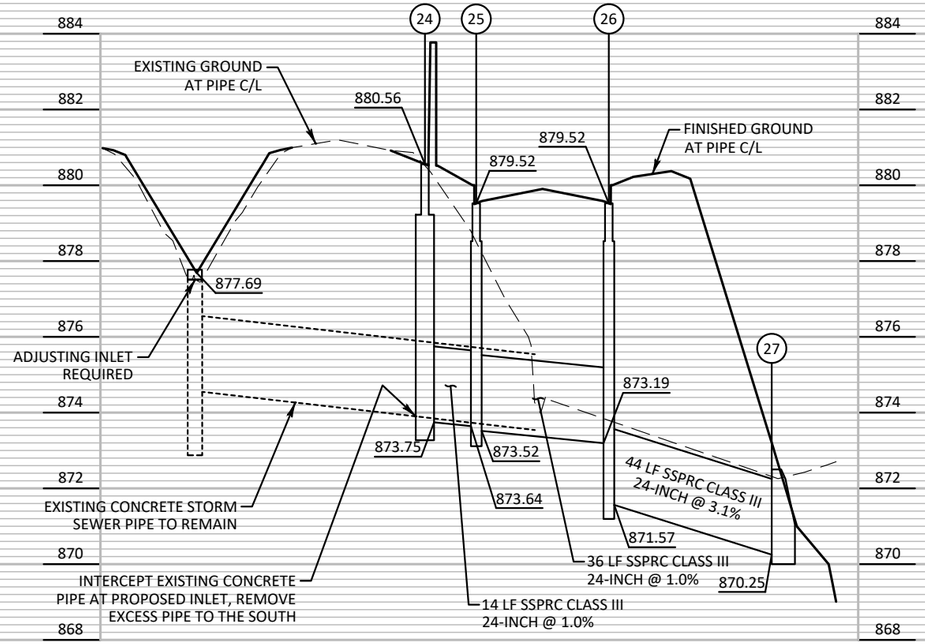
NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

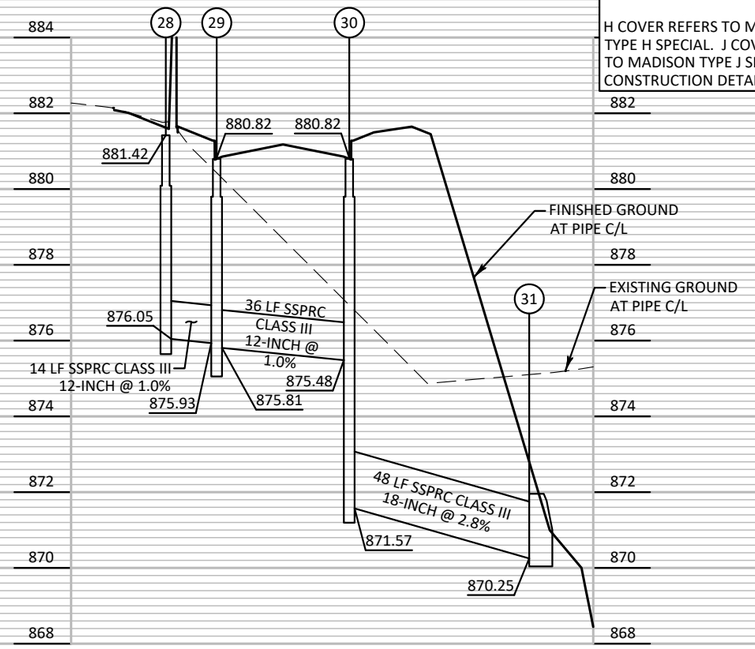
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 185	E







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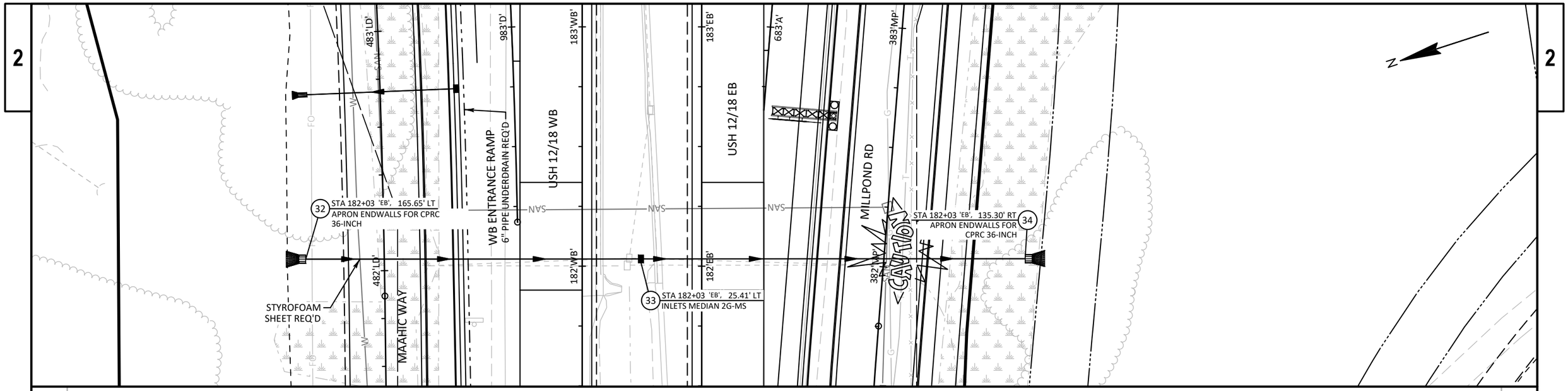
H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 186	E



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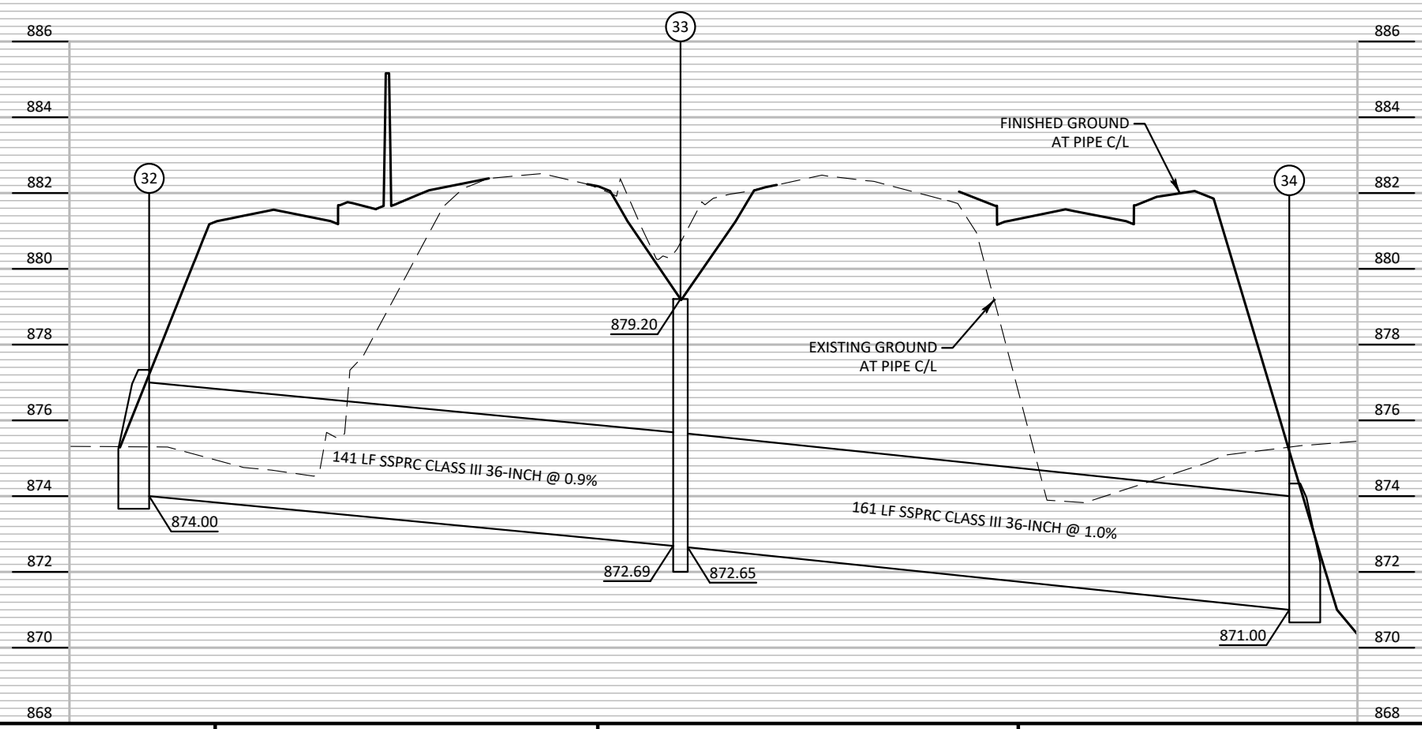
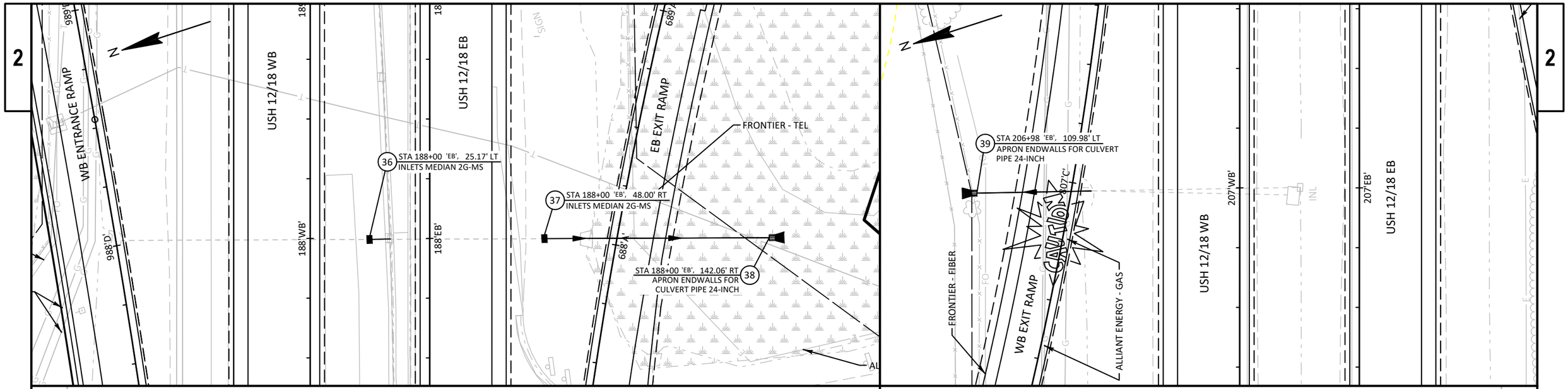
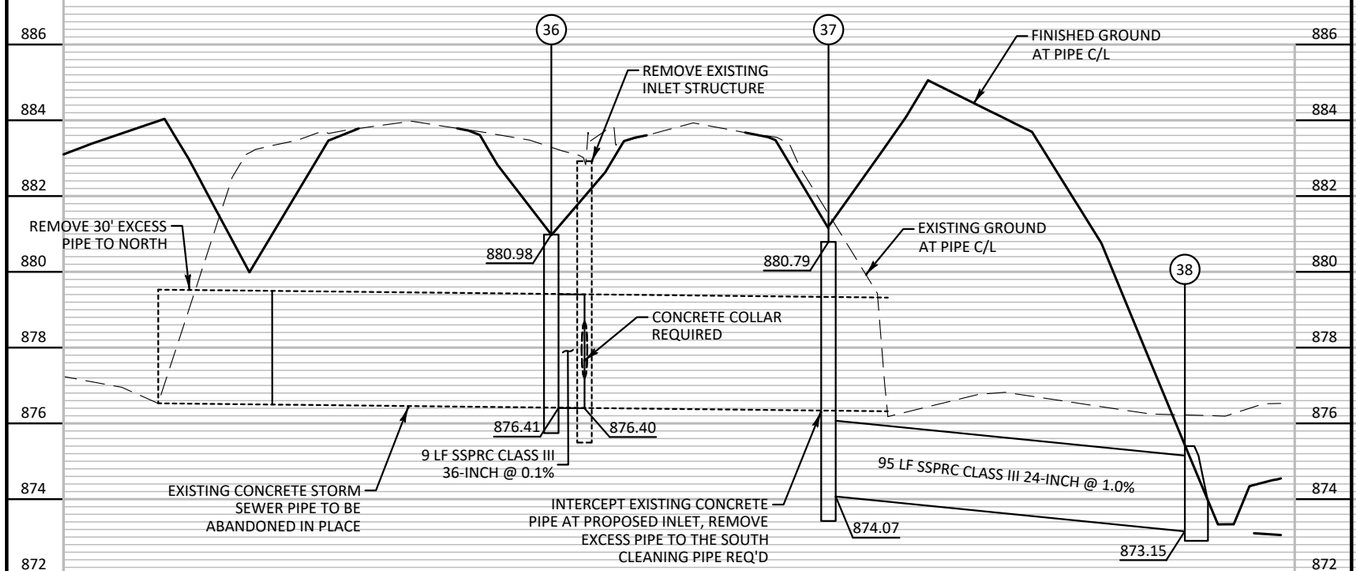
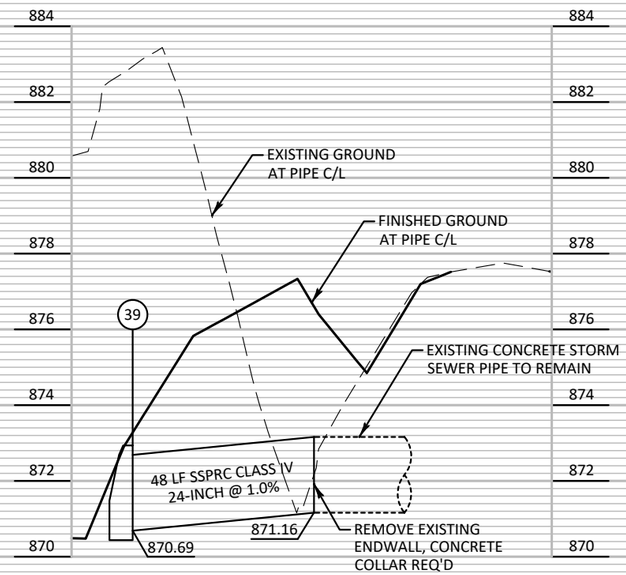
H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 187	E







NOTE:
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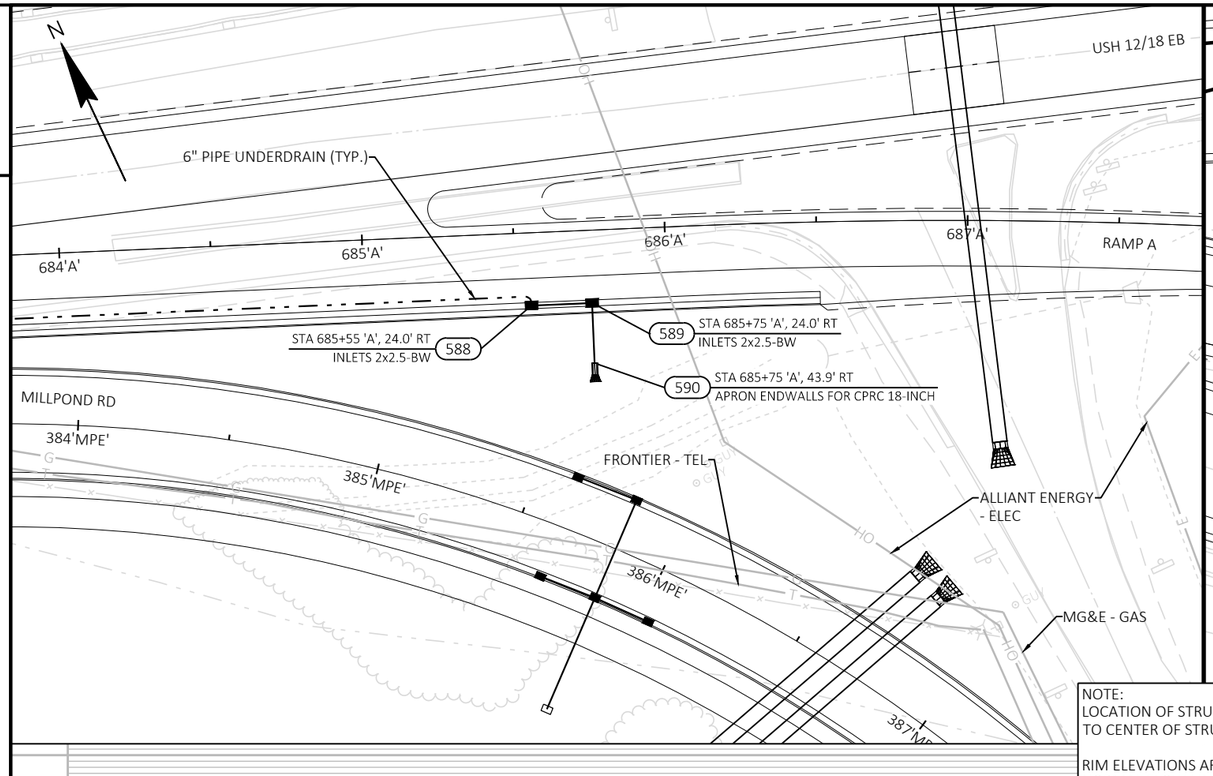
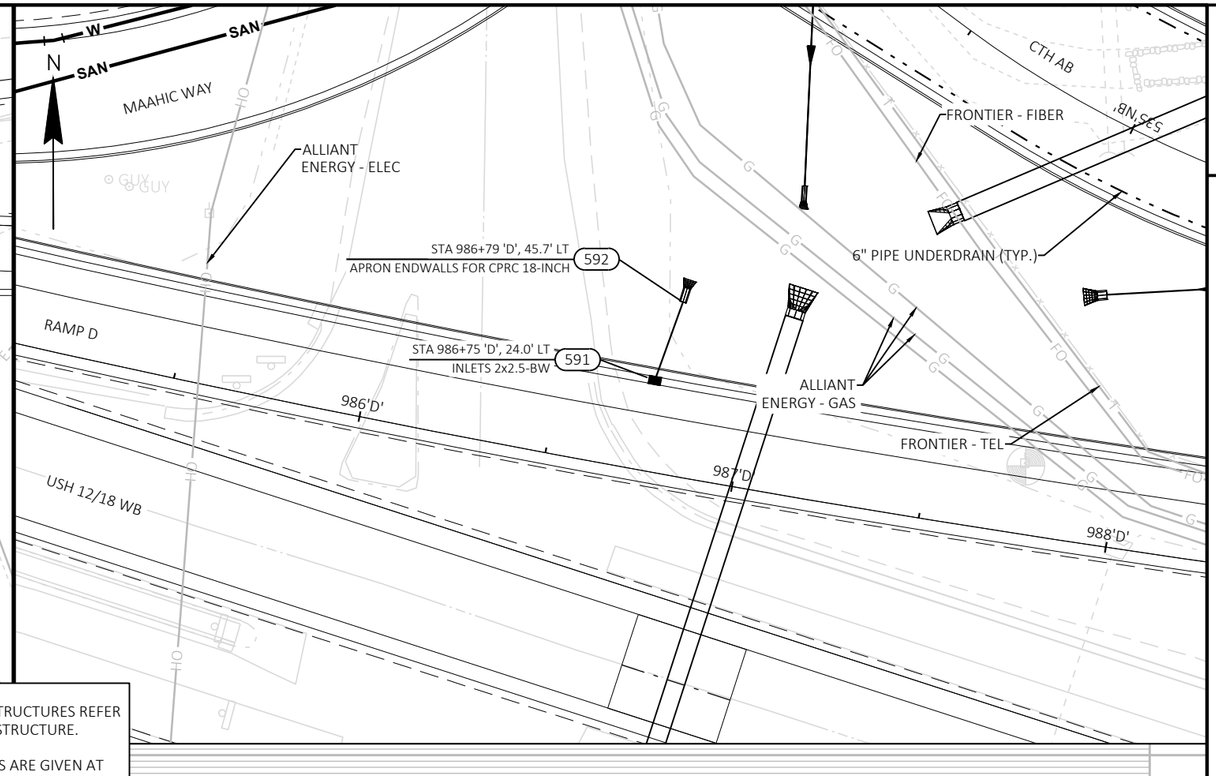
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.

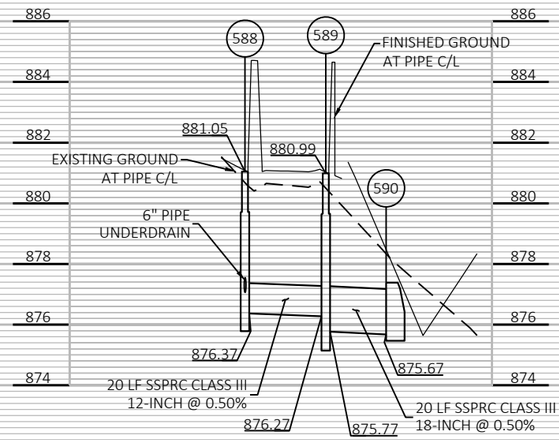
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 188	E

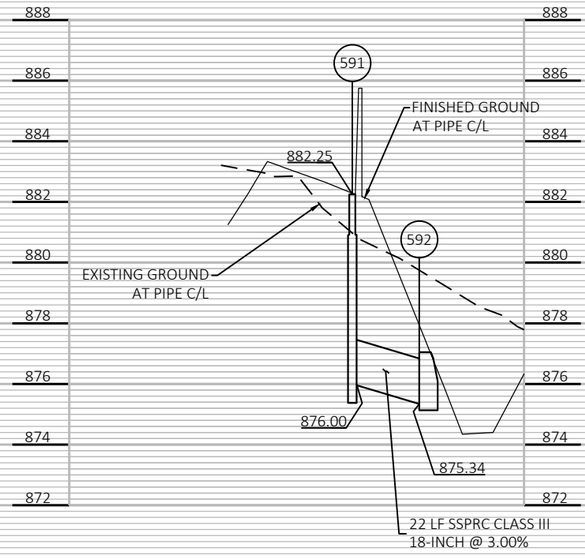




NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

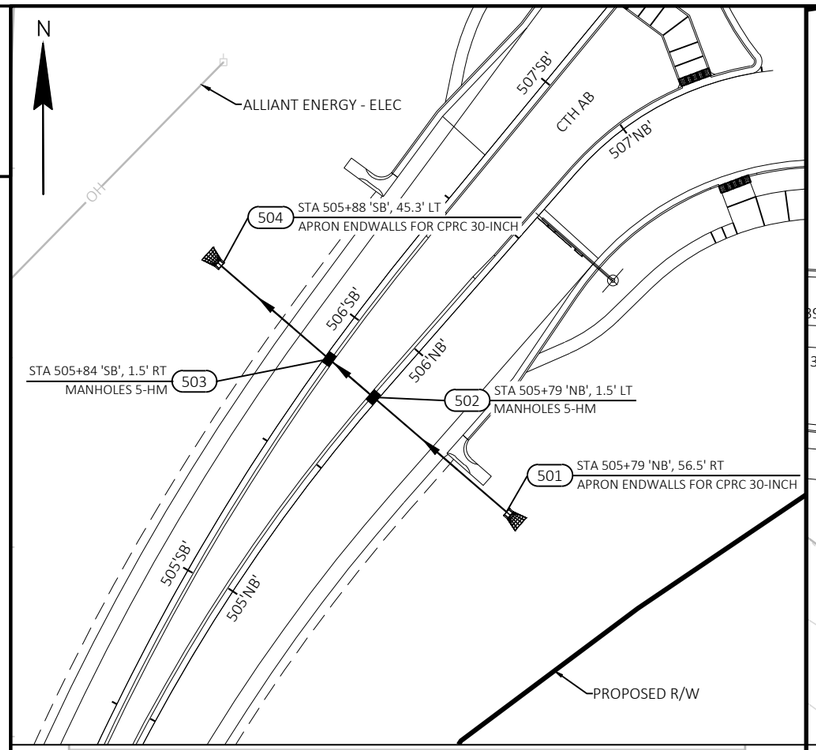
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

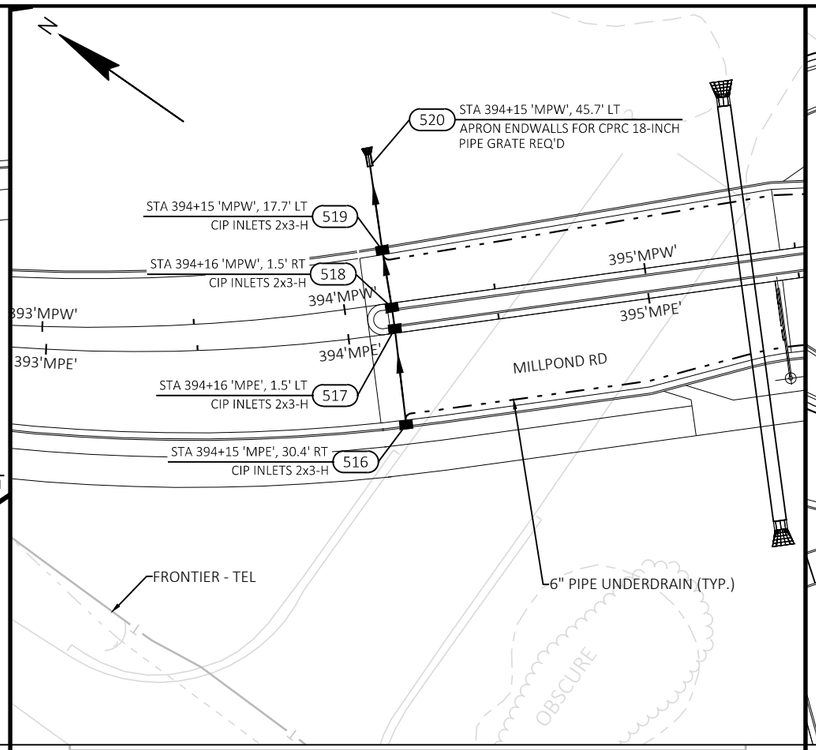


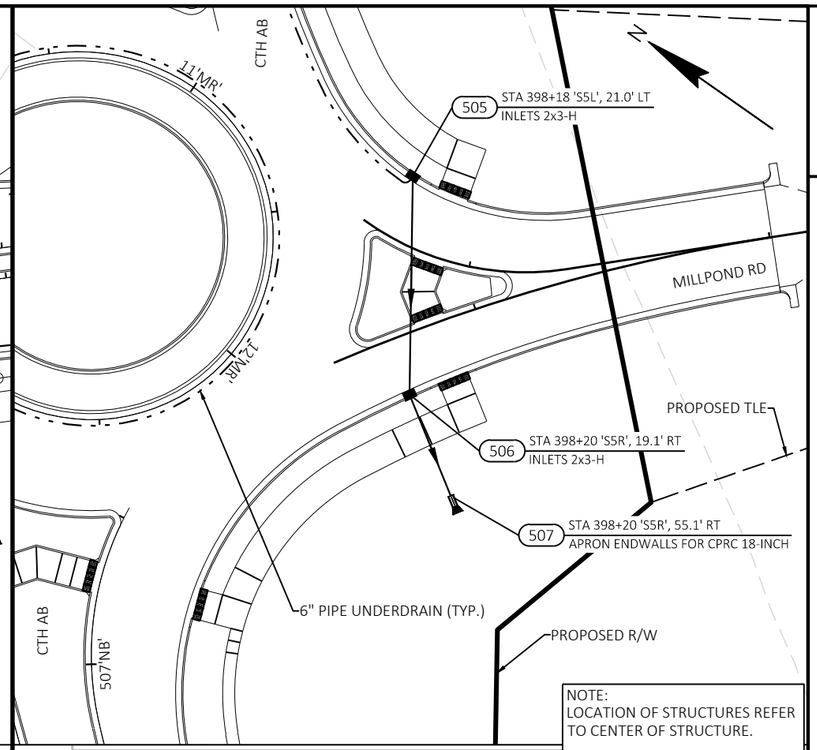


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER: RAMP A & RAMP D	SHEET 189	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_022501_SS.DWG
LAYOUT NAME - SS-9
PLOT DATE : 2/1/2022 12:20 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41

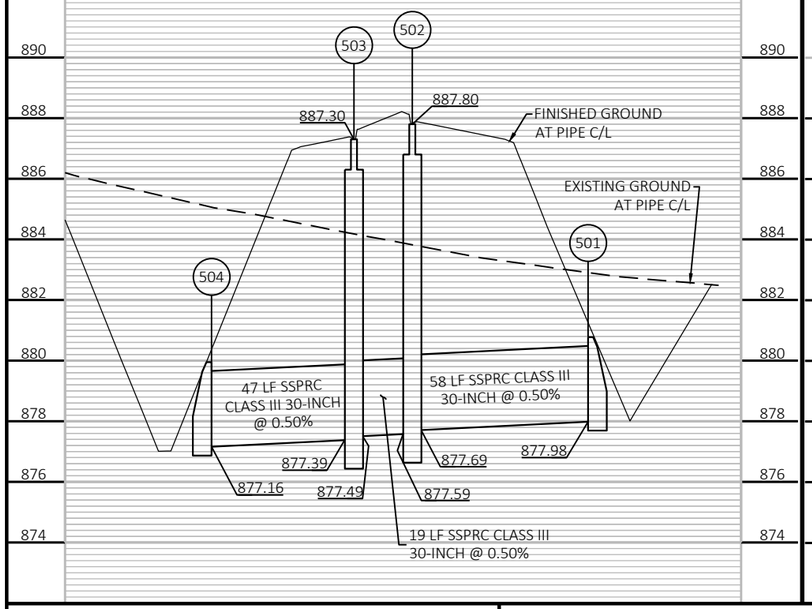


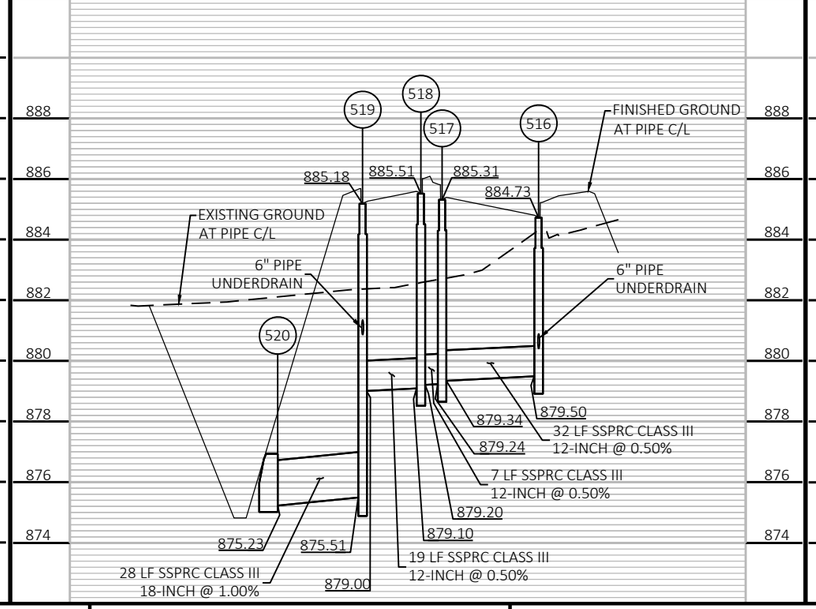


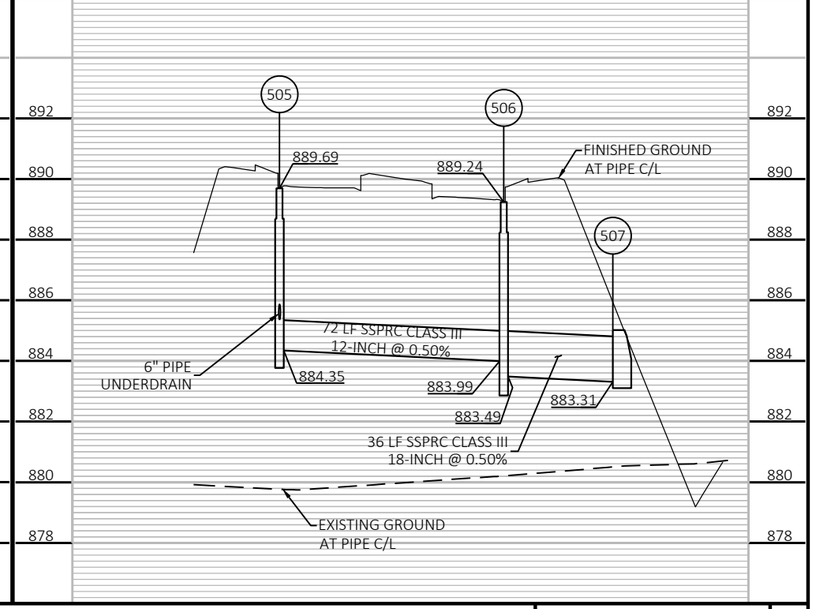


NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

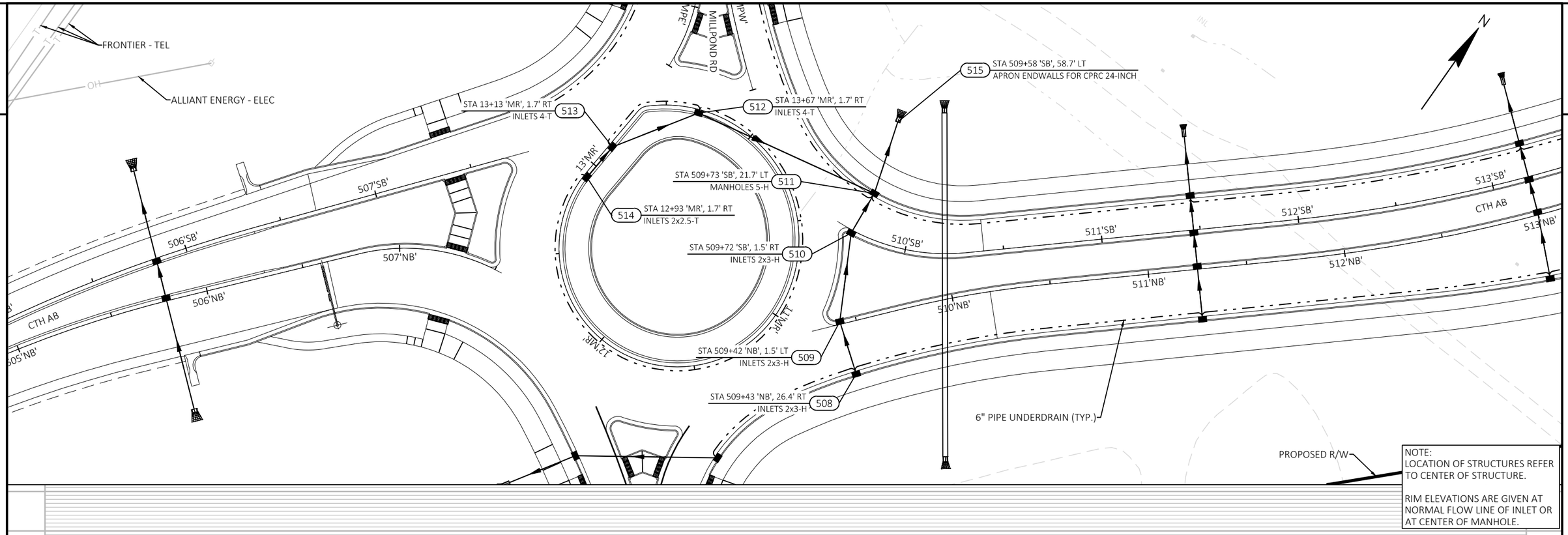
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.





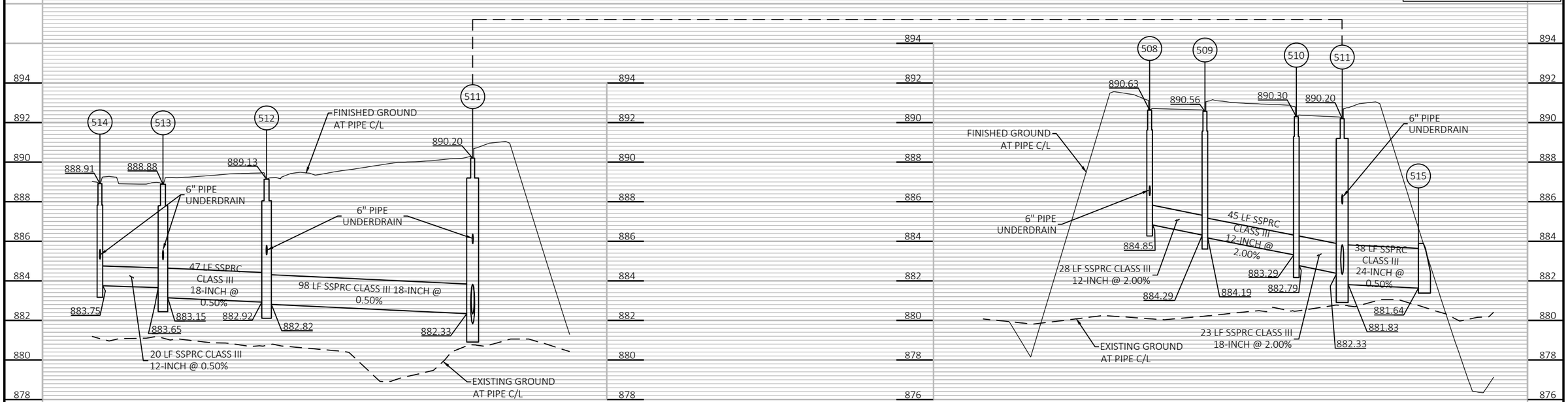


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB/MILLPOND ROAD	SHEET 190	E



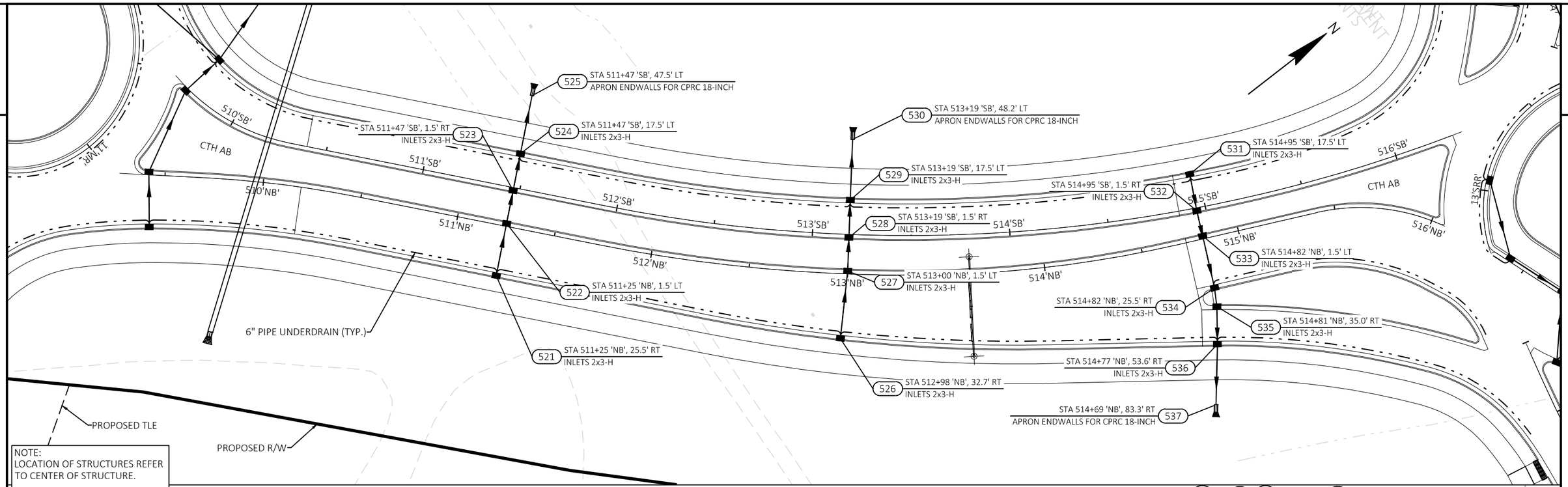
NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.



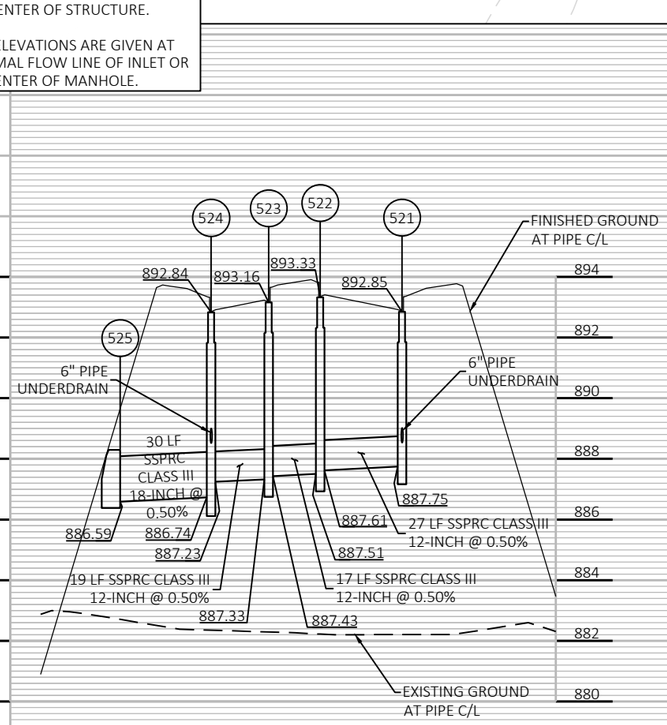
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB	SHEET 191	E

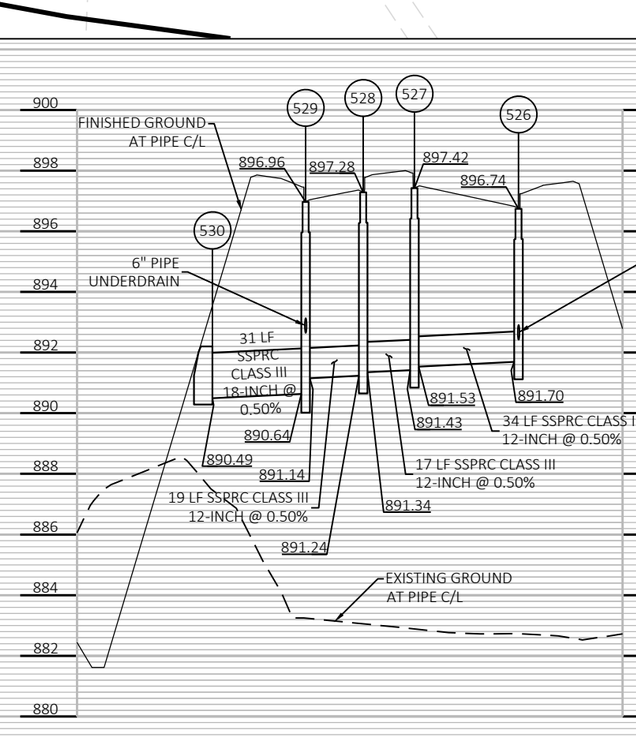
2

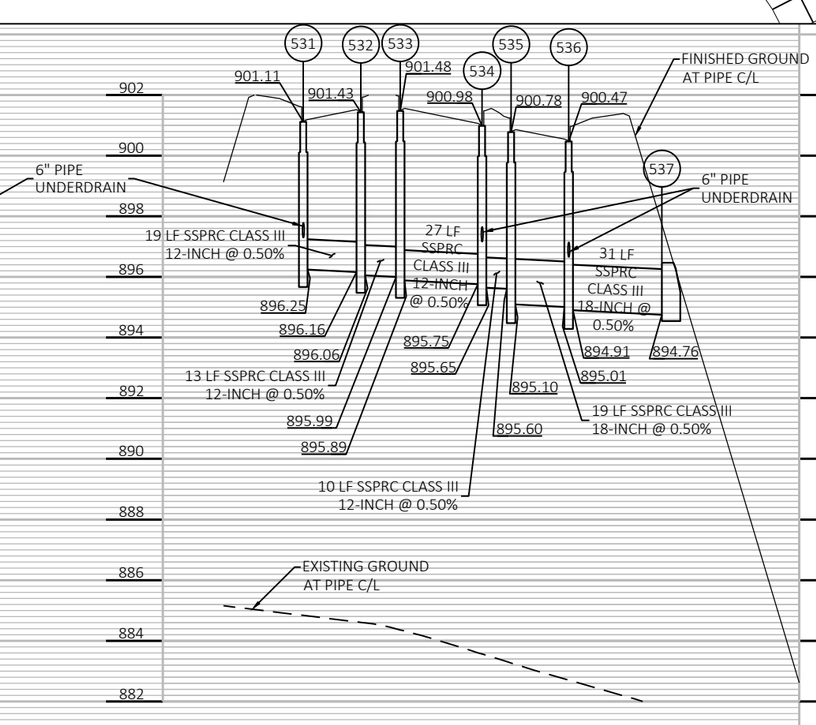


NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

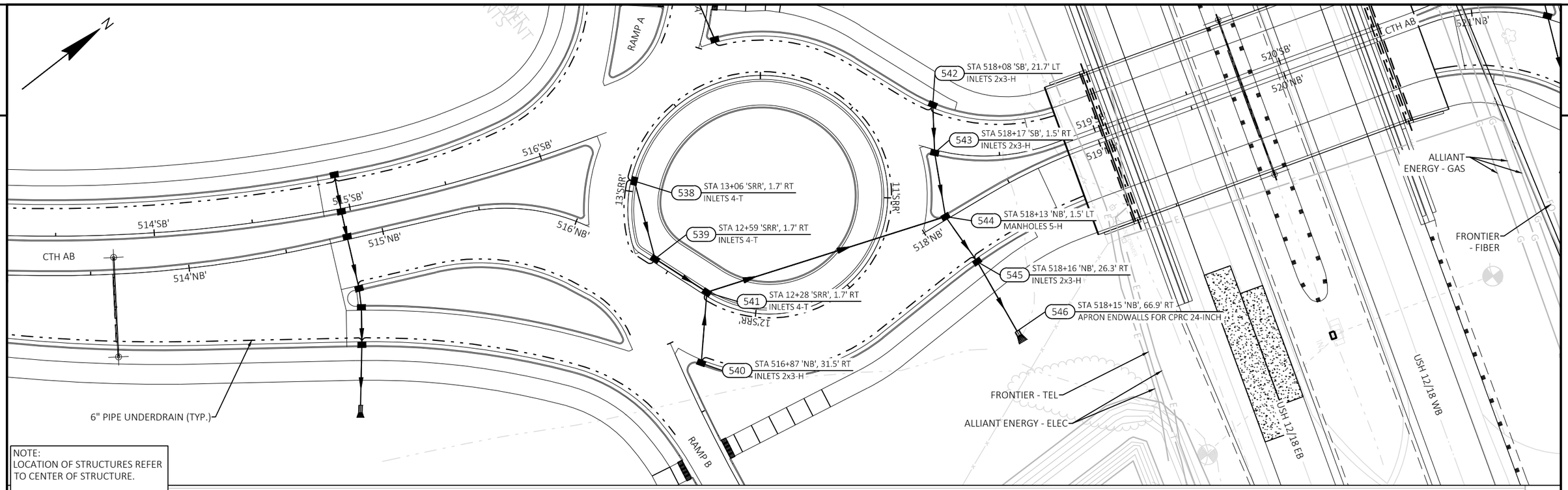






PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB	SHEET 192	E

2



NOTE:
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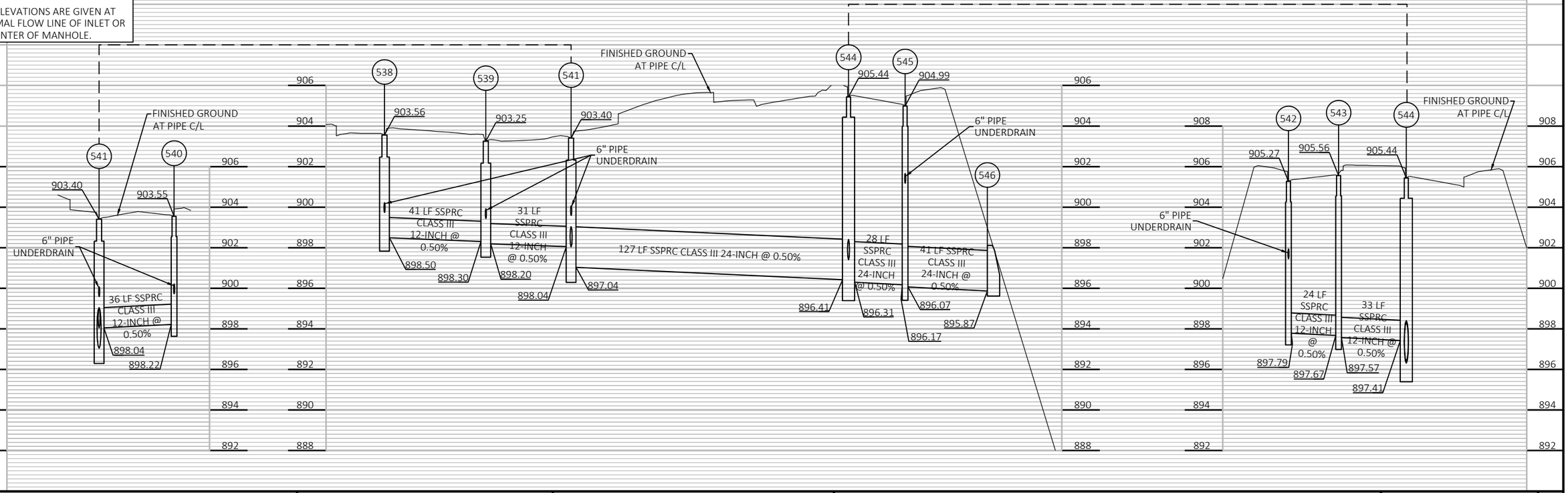
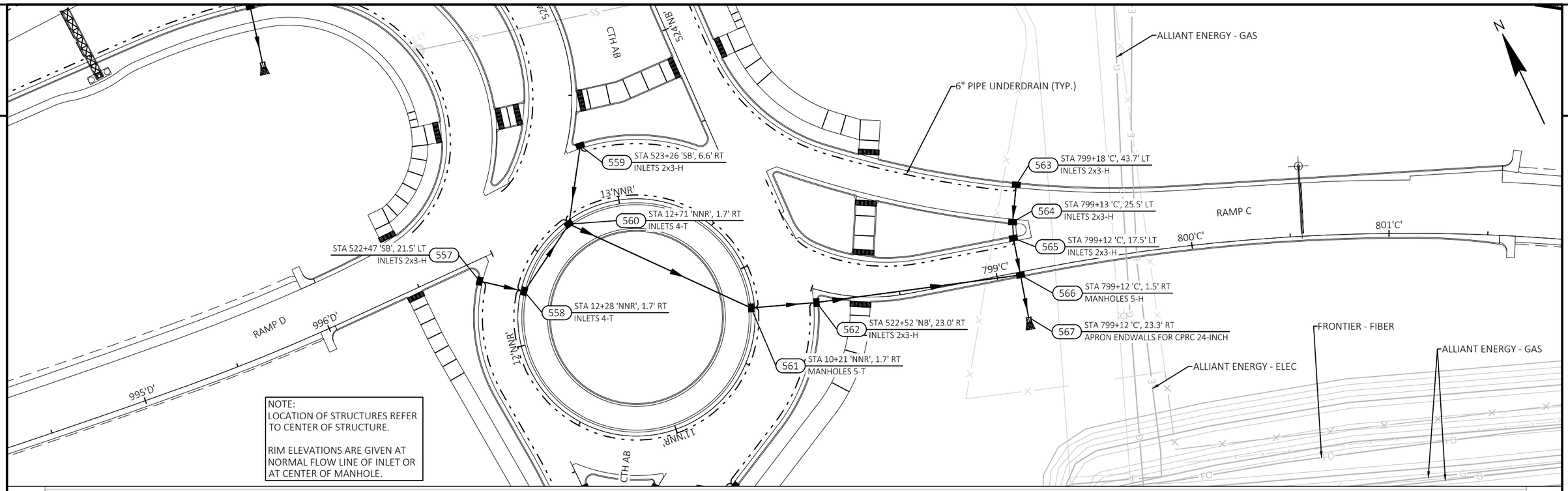
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.



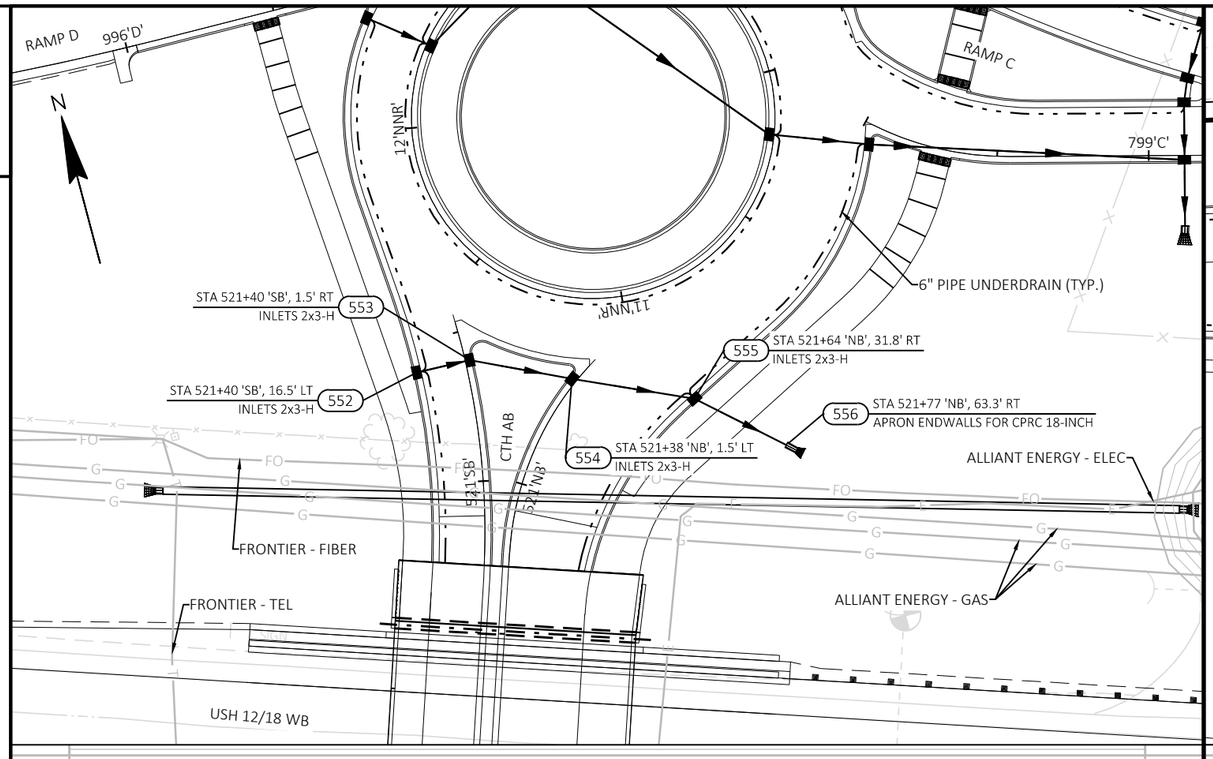
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB	SHEET 193	E

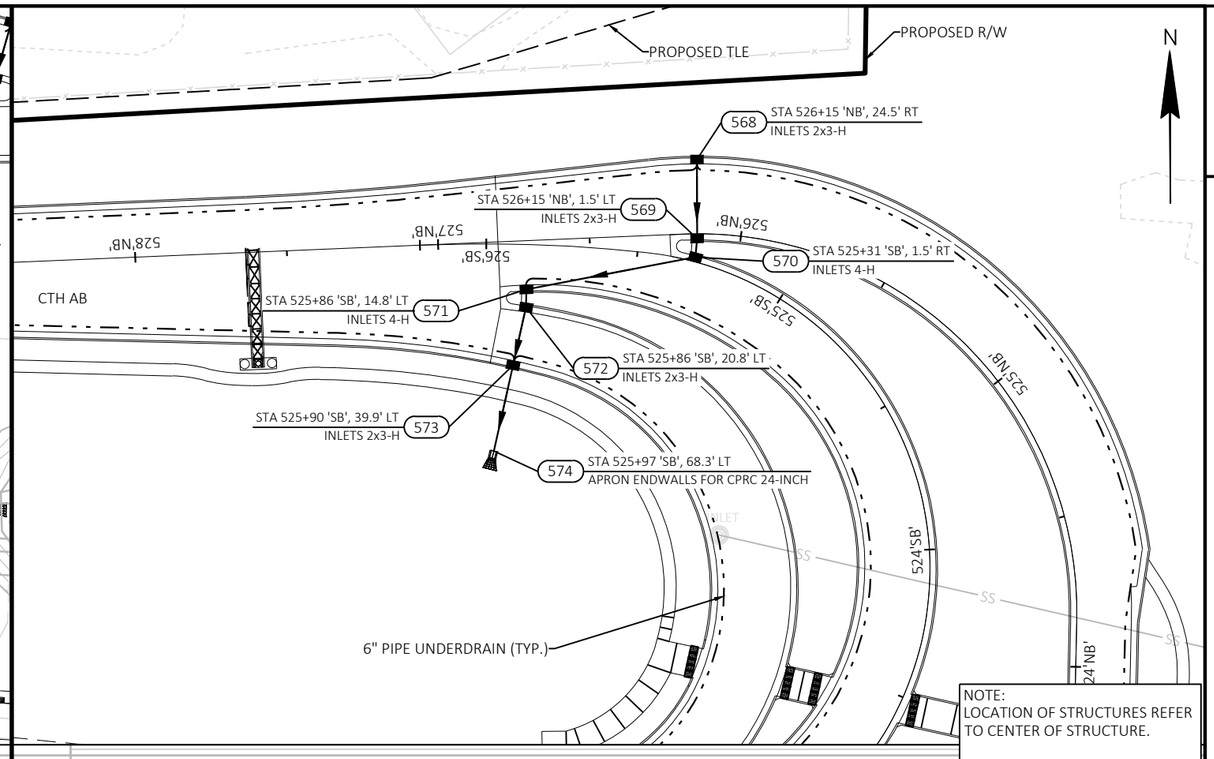
2



PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB	SHEET 194 E

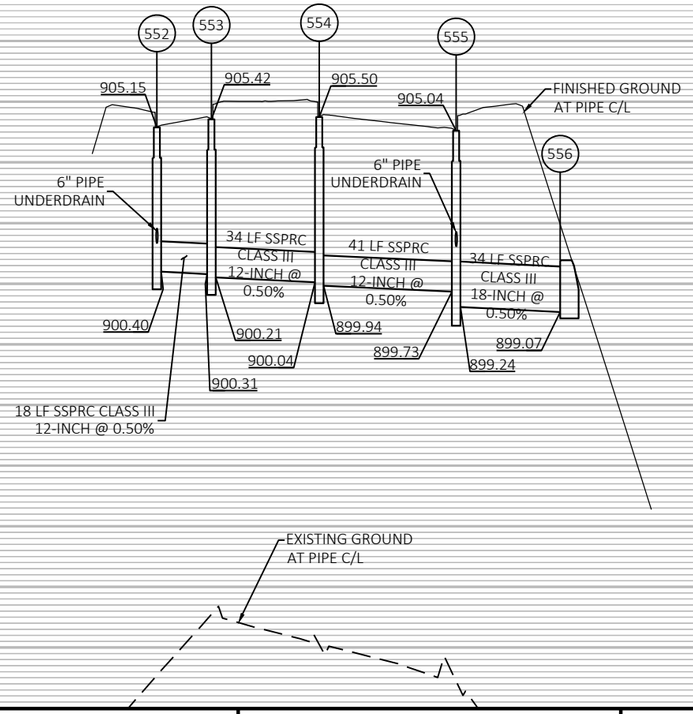
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_022501_SS.DWG
LAYOUT NAME - SS-5
PLOT DATE : 1/5/2022 11:08 AM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 41

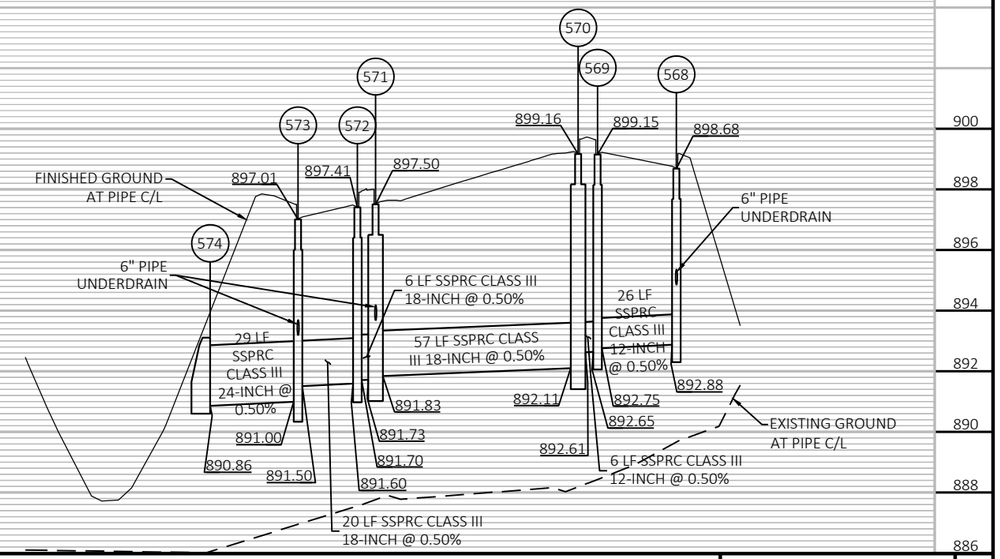




NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

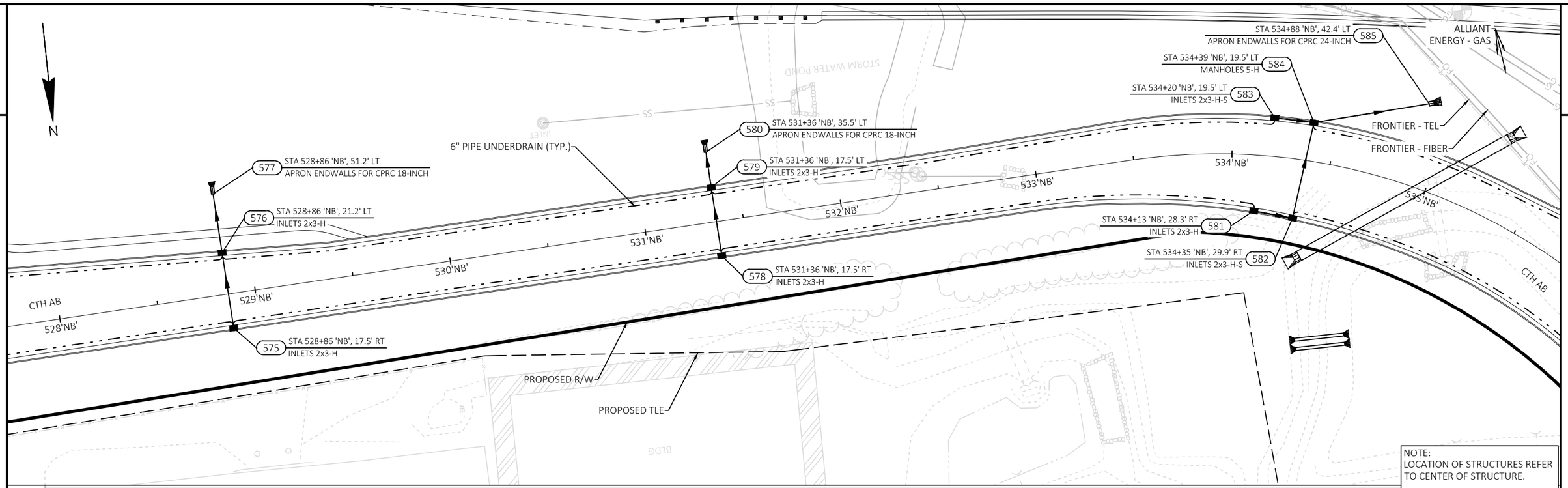
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.





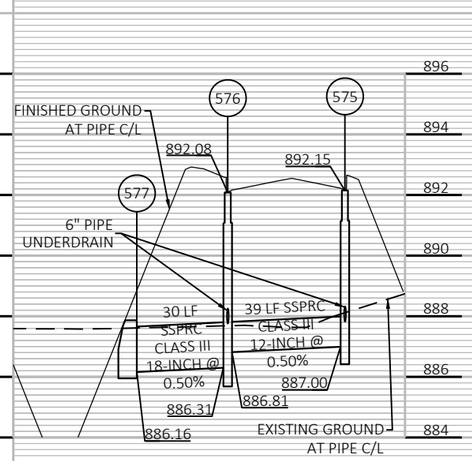
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB	SHEET 195	E

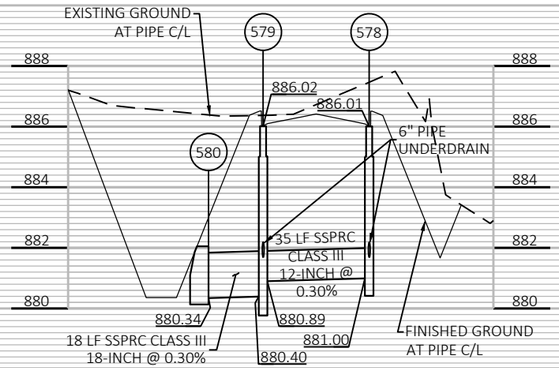
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_022501_SS.DWG
LAYOUT NAME - SS-6
PLOT DATE : 1/5/2022 11:08 AM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41

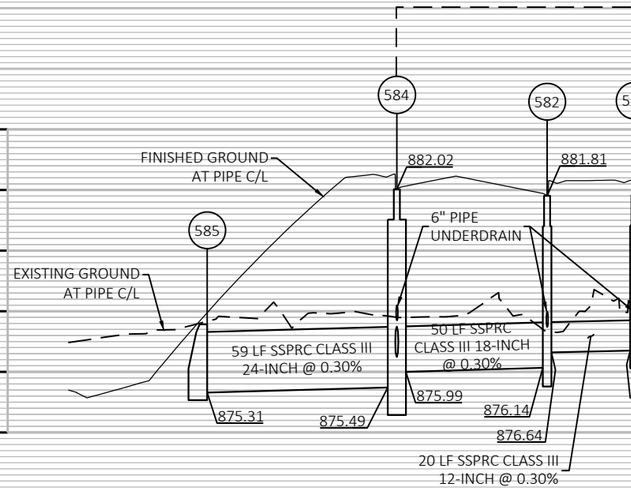


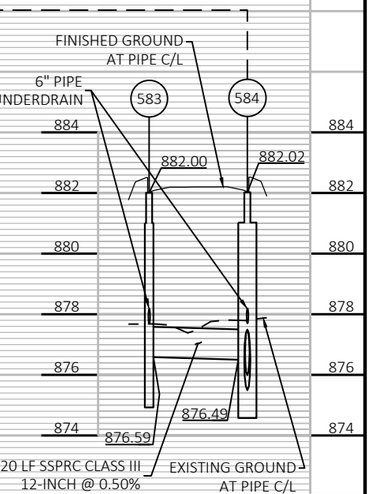
NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.



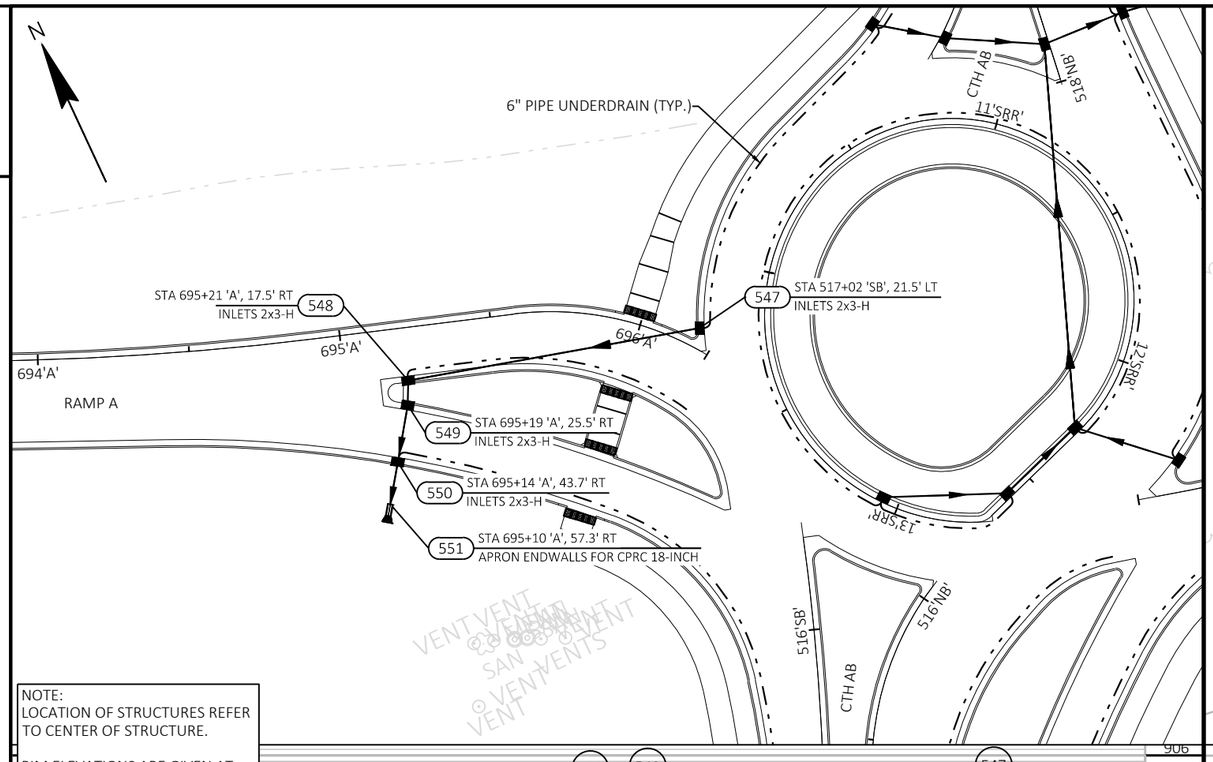


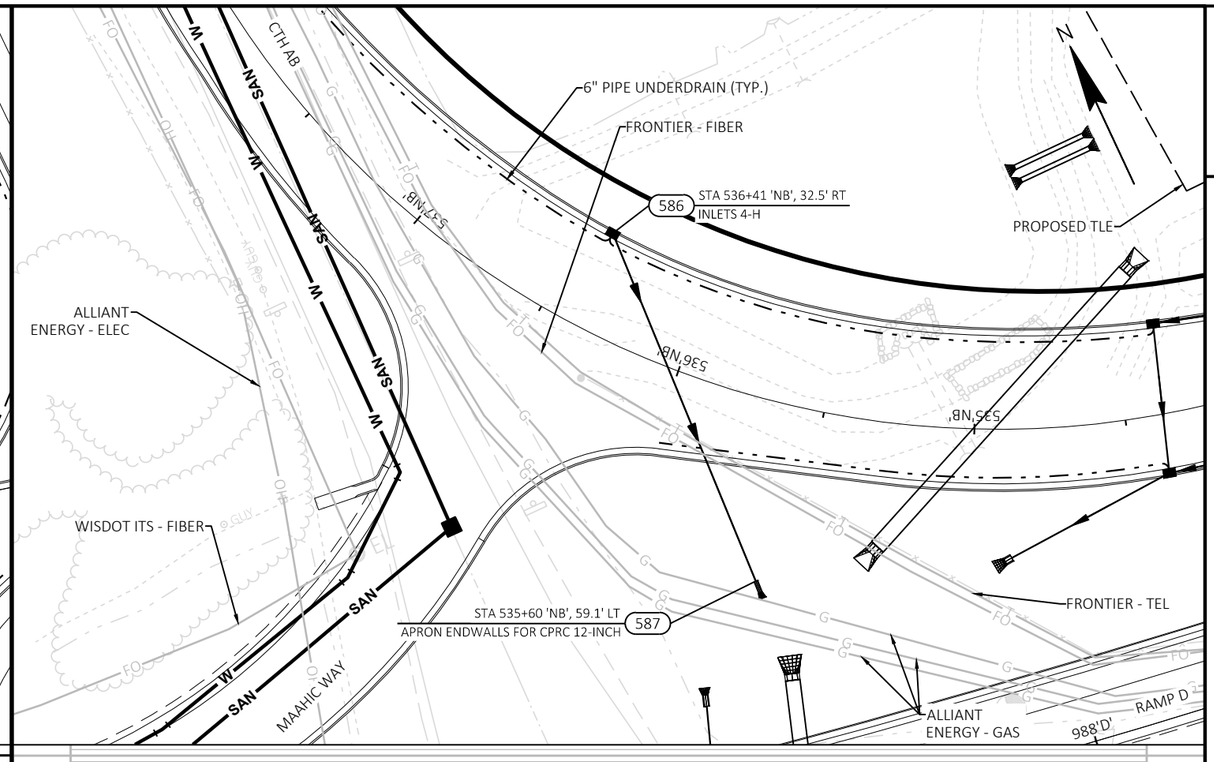




PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB	SHEET 196	E

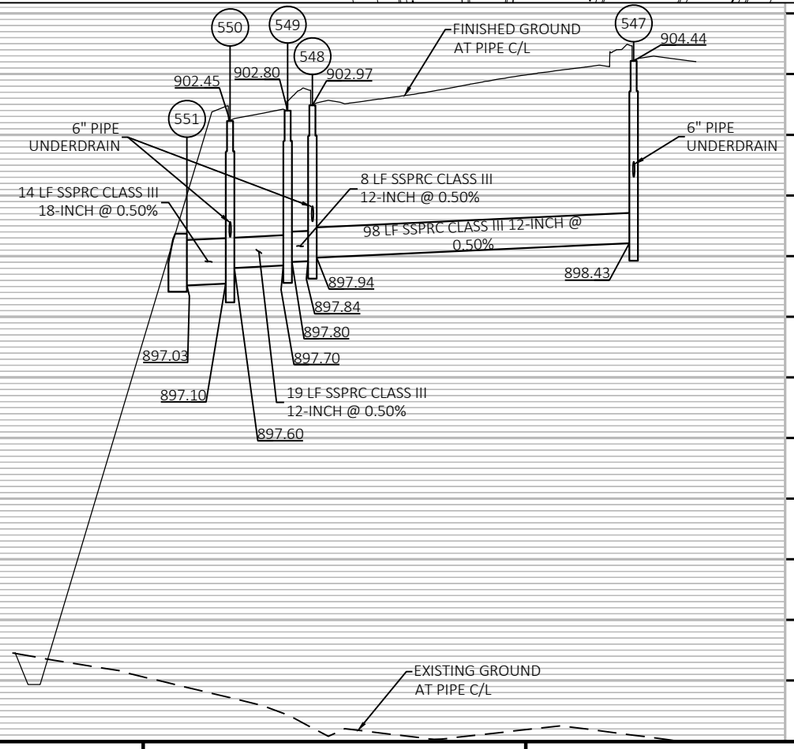
2

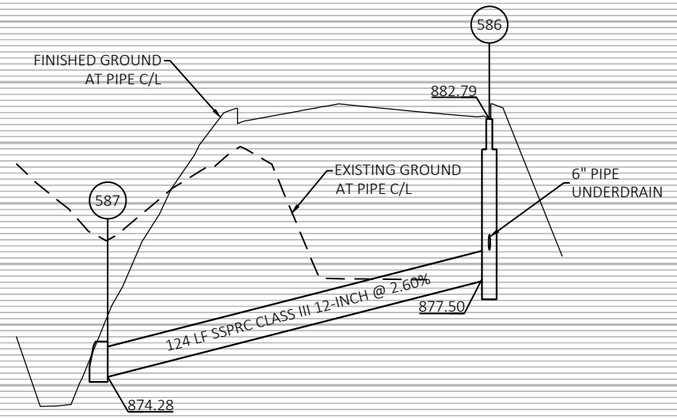




NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

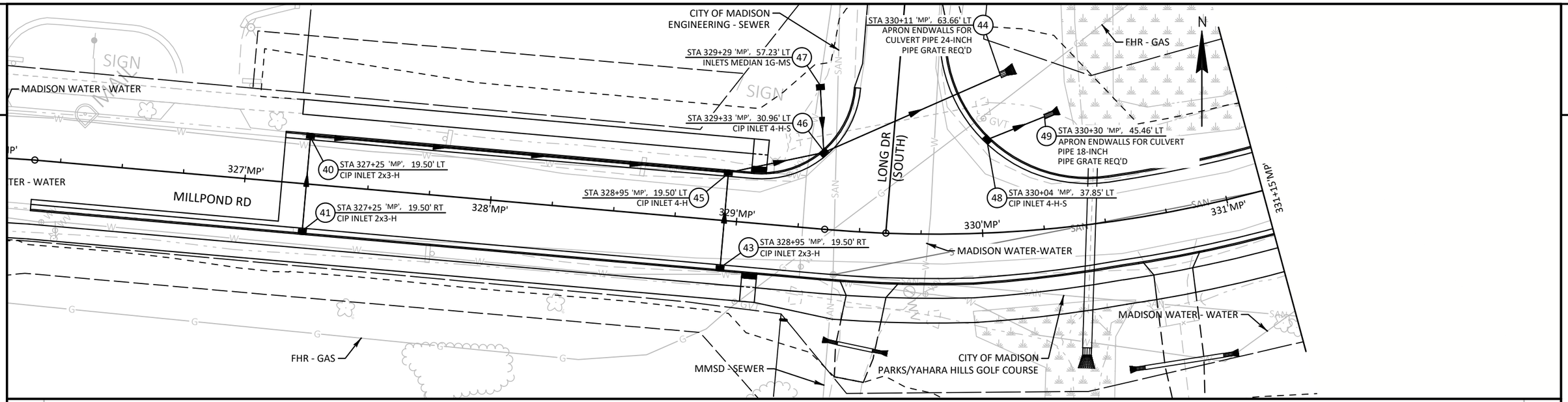
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

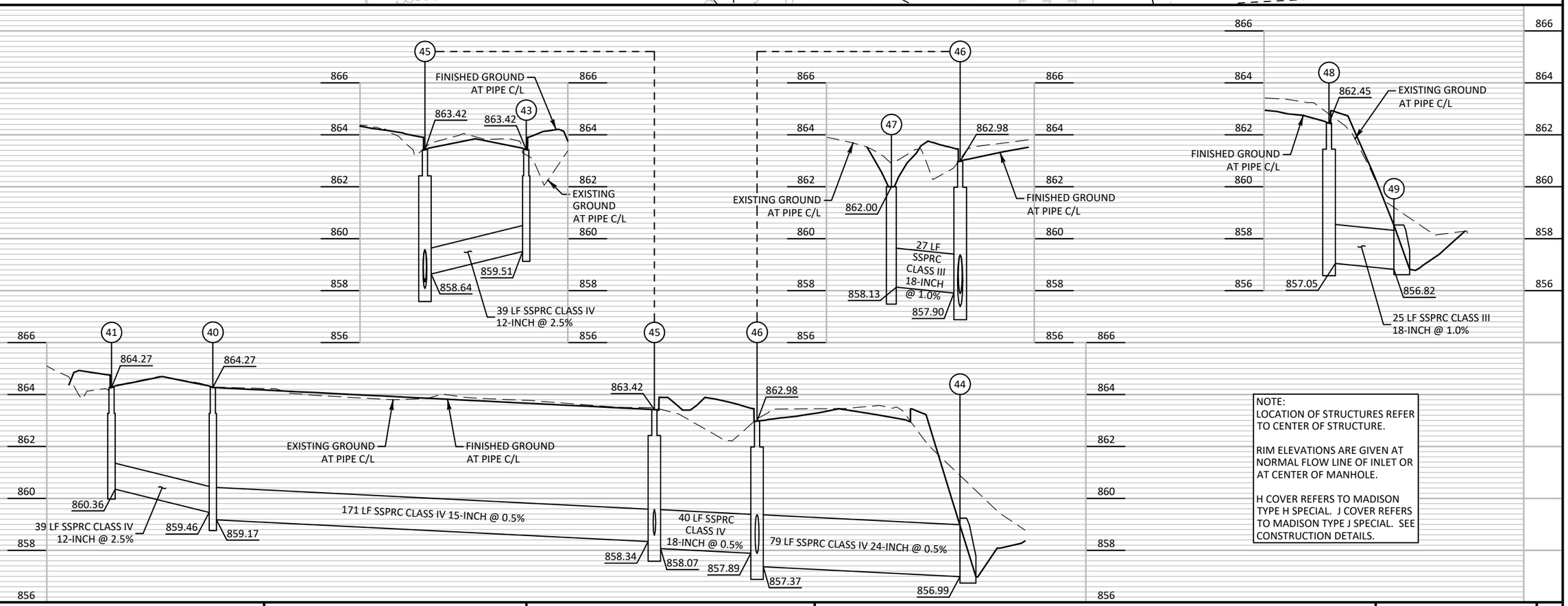




PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB	SHEET 197	E

2





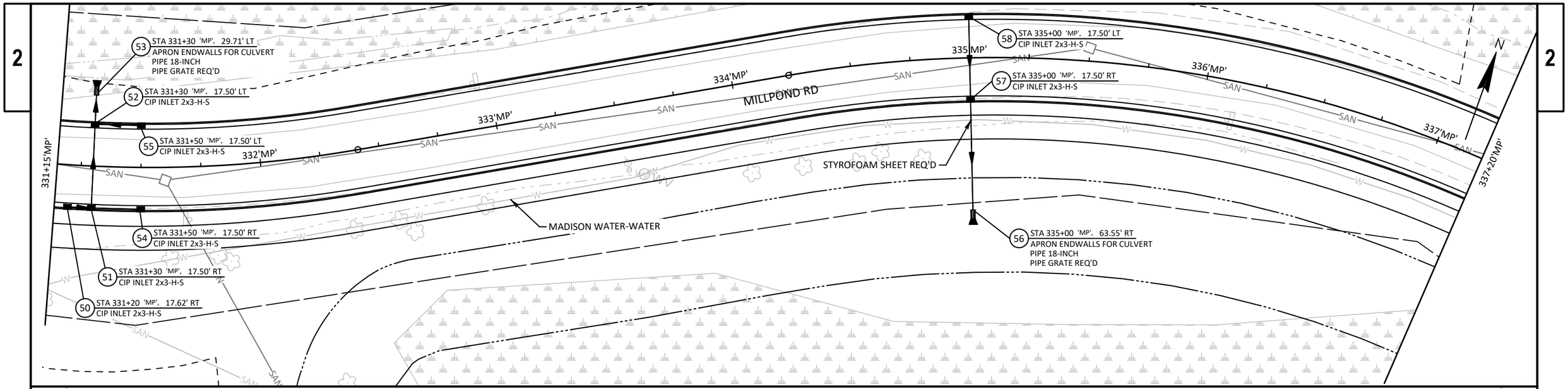
NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

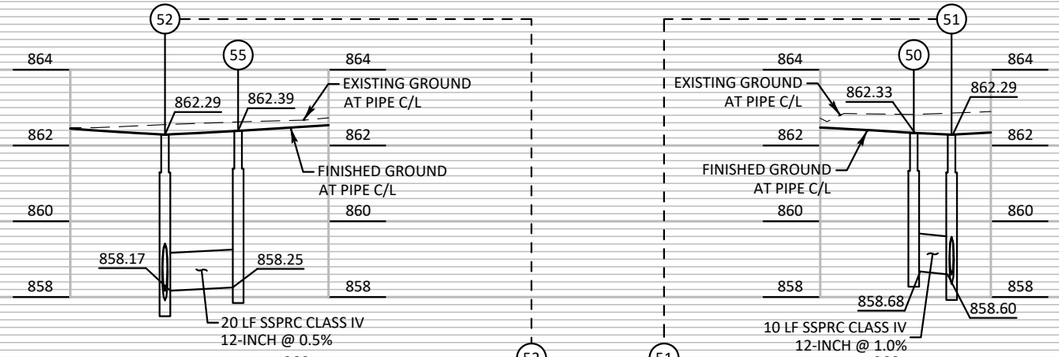
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

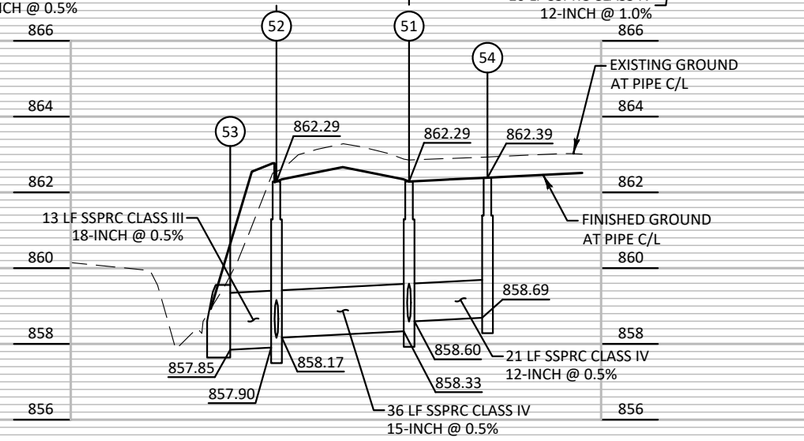
H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.

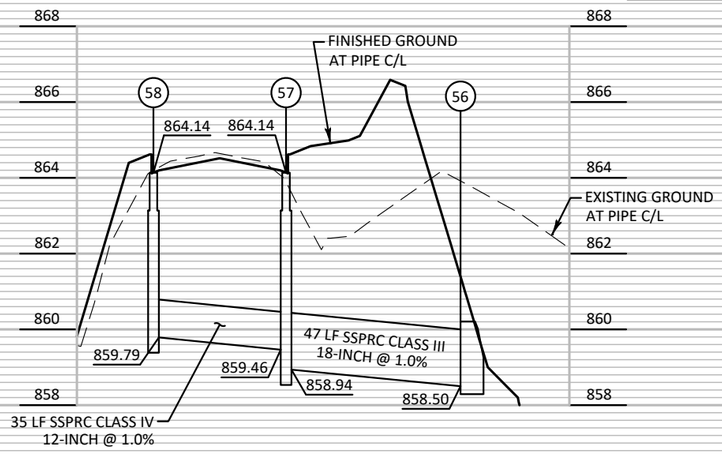
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 198	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022500_SS (STM SWR DETAILS).DWG PLOT DATE : 5/25/2022 1:28 PM PLOT BY : SEH LAYOUT NAME : 01 PLOT SCALE : 1.0 IN = 40.0 FT
WISDOT/CADDS SHEET 42









NOTE:
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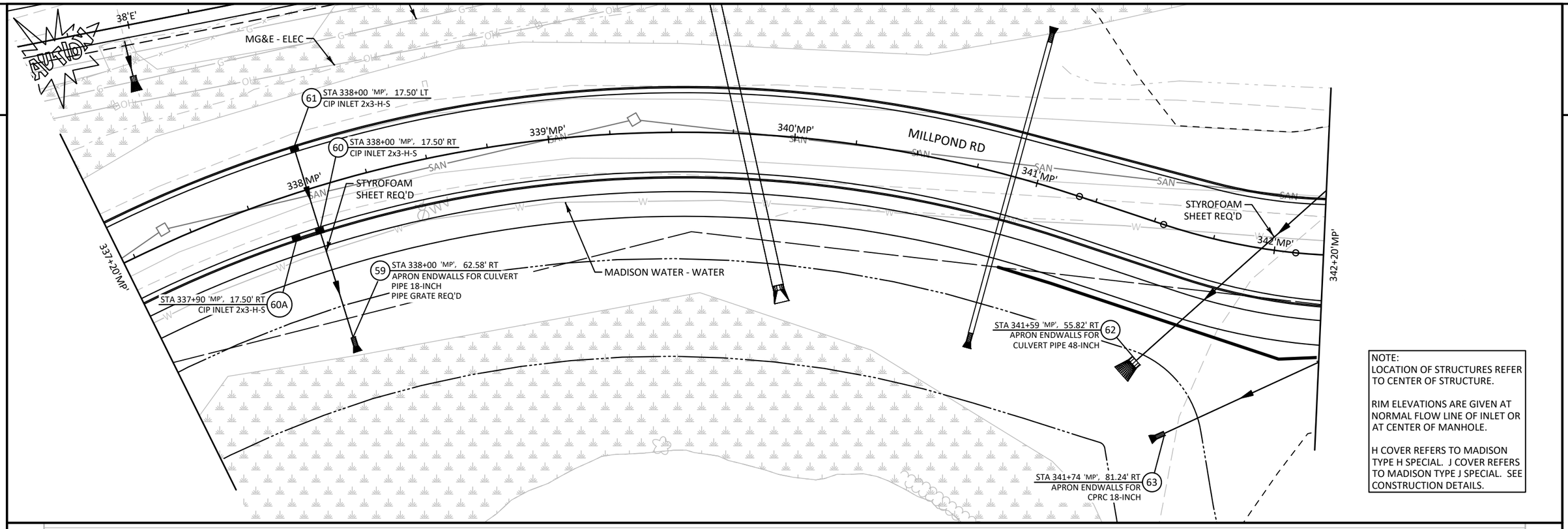
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 199	E

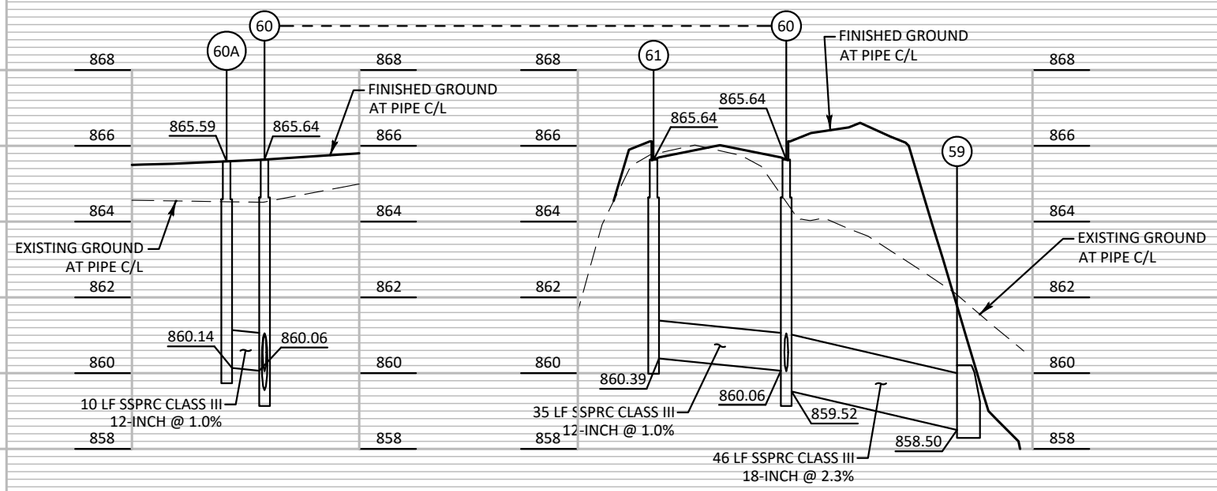
2

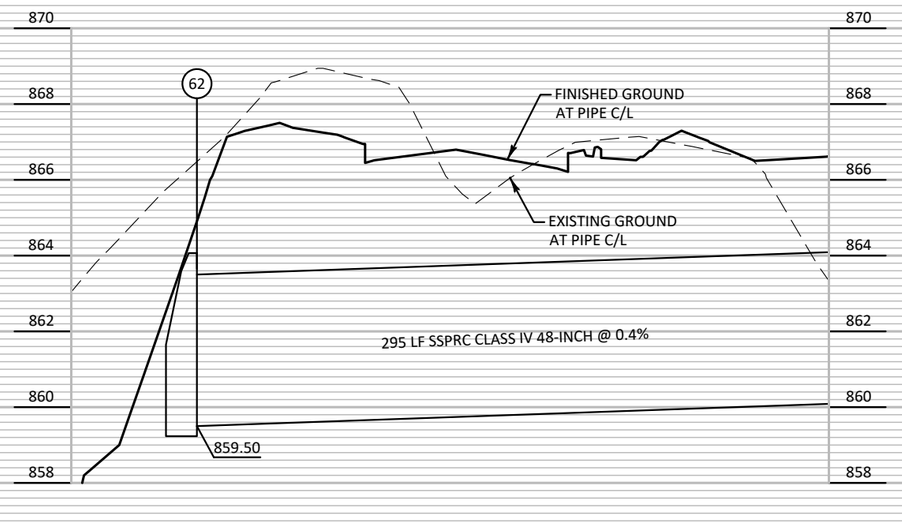


NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

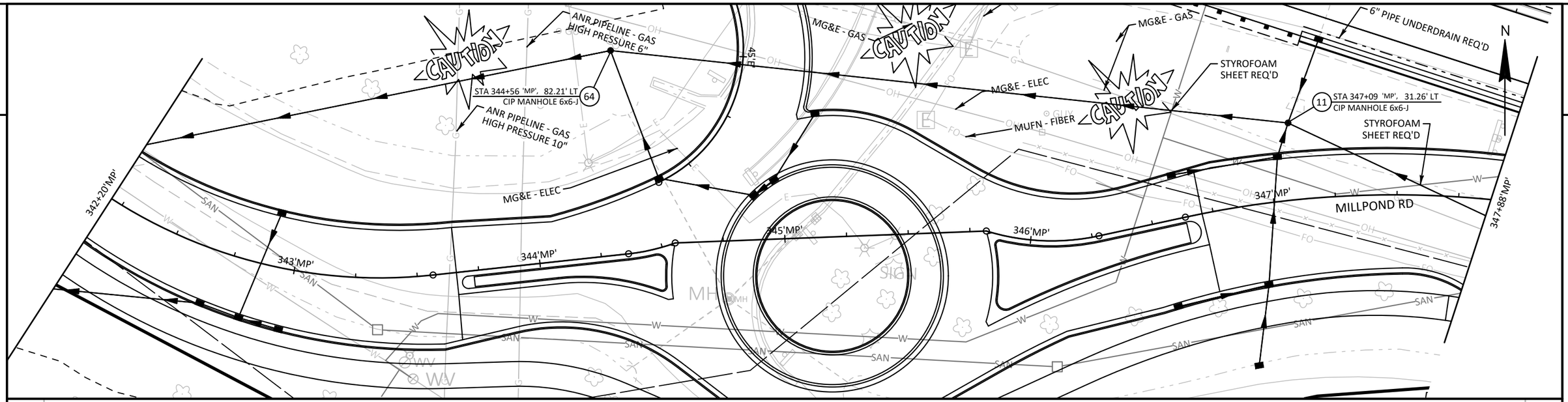
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.





PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 200	E



NOTE:
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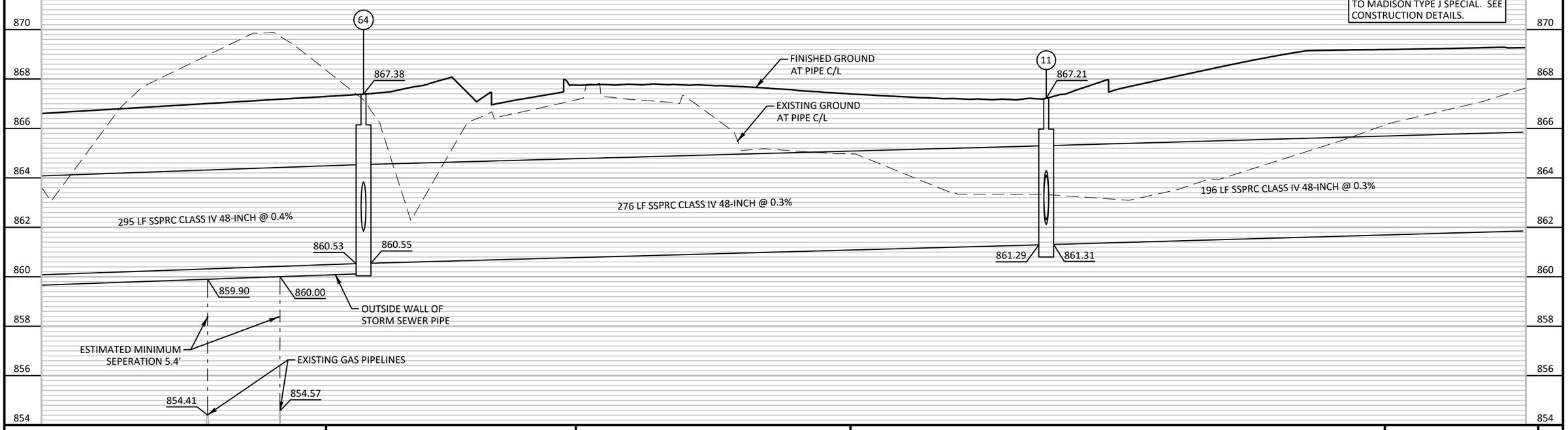
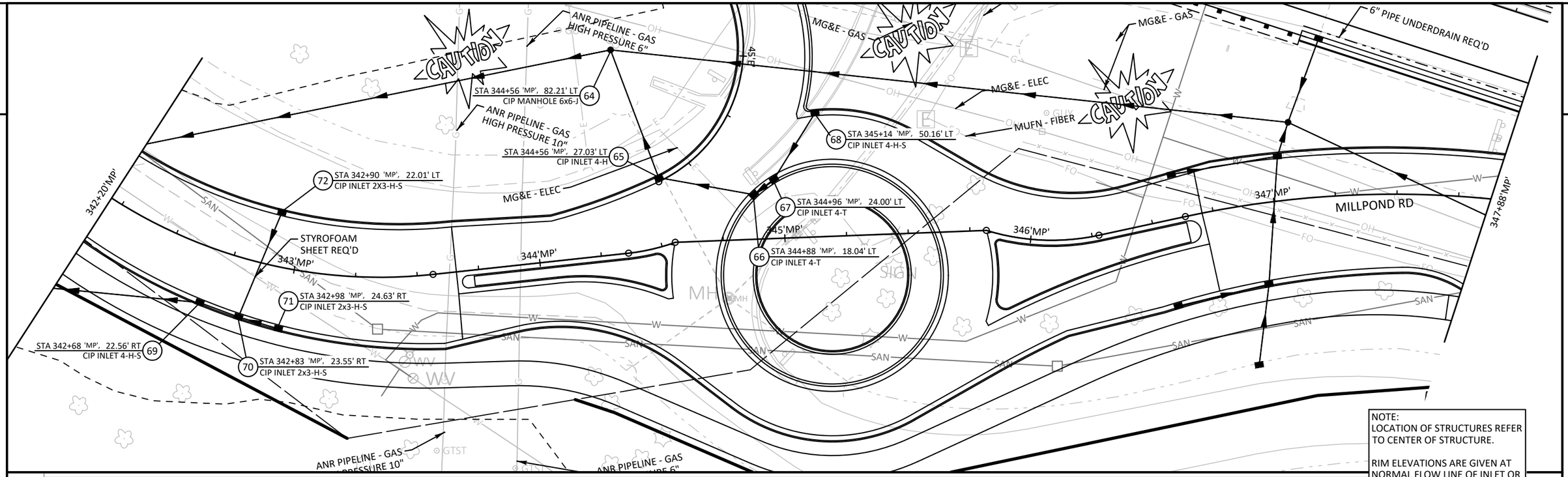
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 201	E

2



NOTE:
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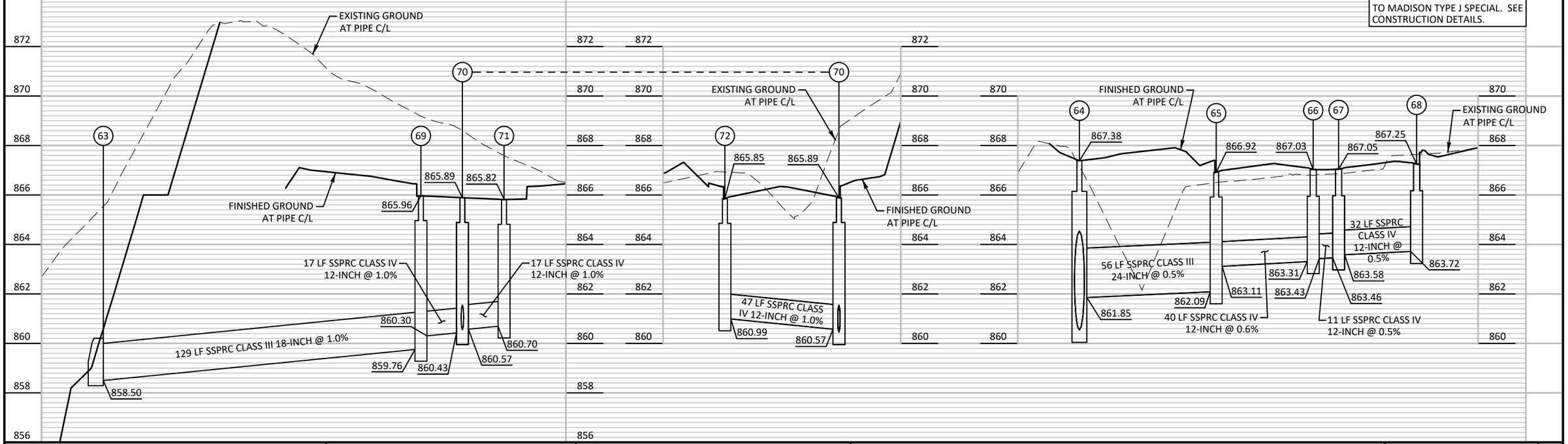
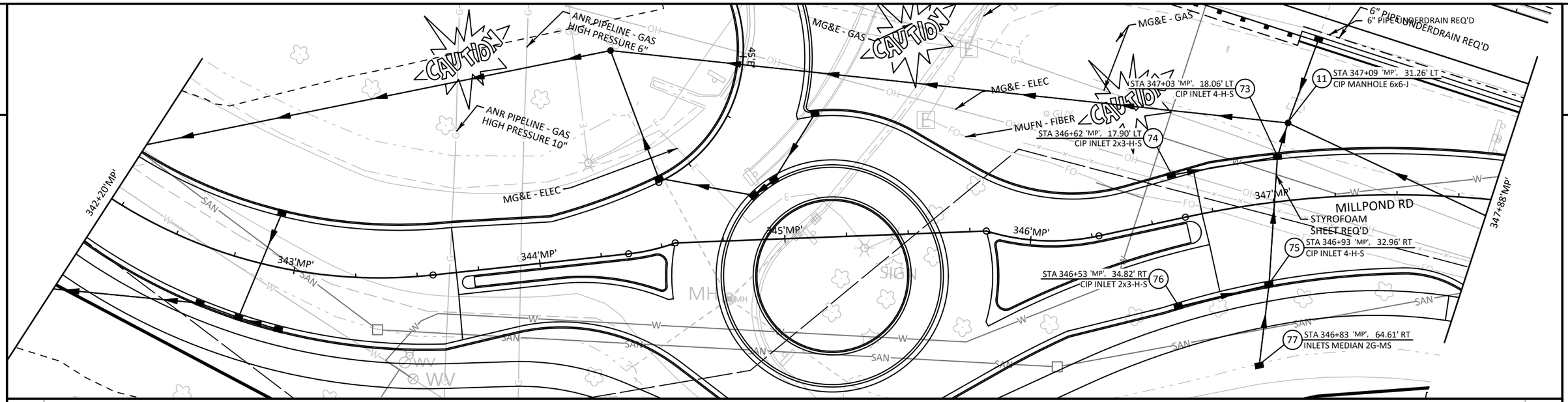
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 202	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022500_SS (STM SWR DETAILS).DWG
PLOT DATE : 3/10/2022 7:49 AM
PLOT BY : SEH
LAYOUT NAME : 04-B
PLOT SCALE : 1.0 IN = 40.0 FT
WISDOT/CADDS SHEET 42



NOTE:
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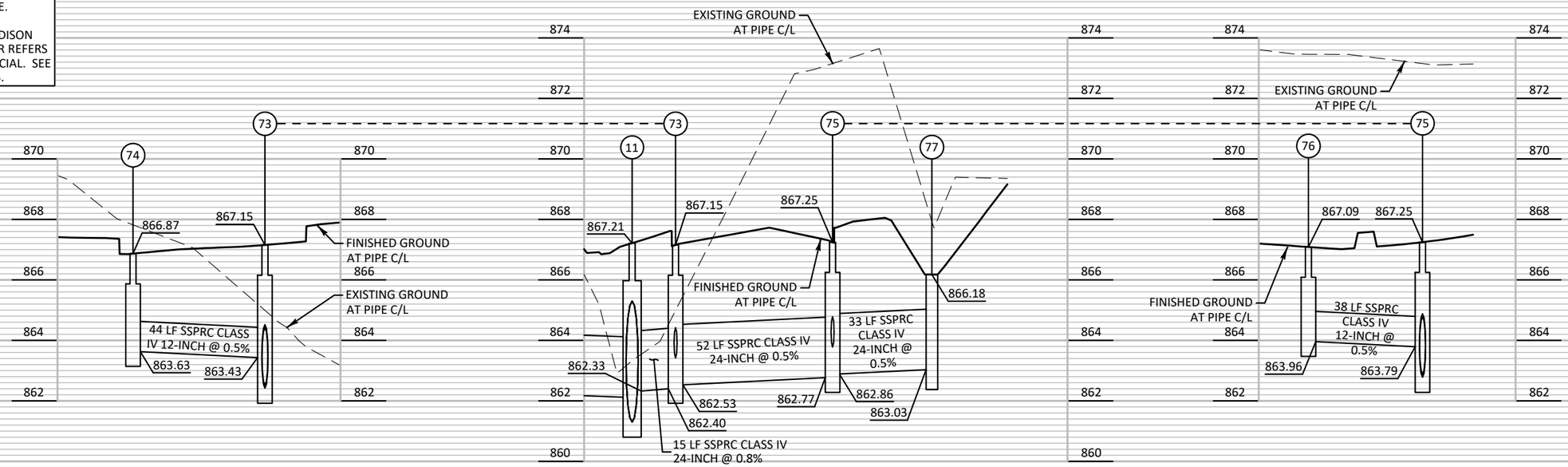
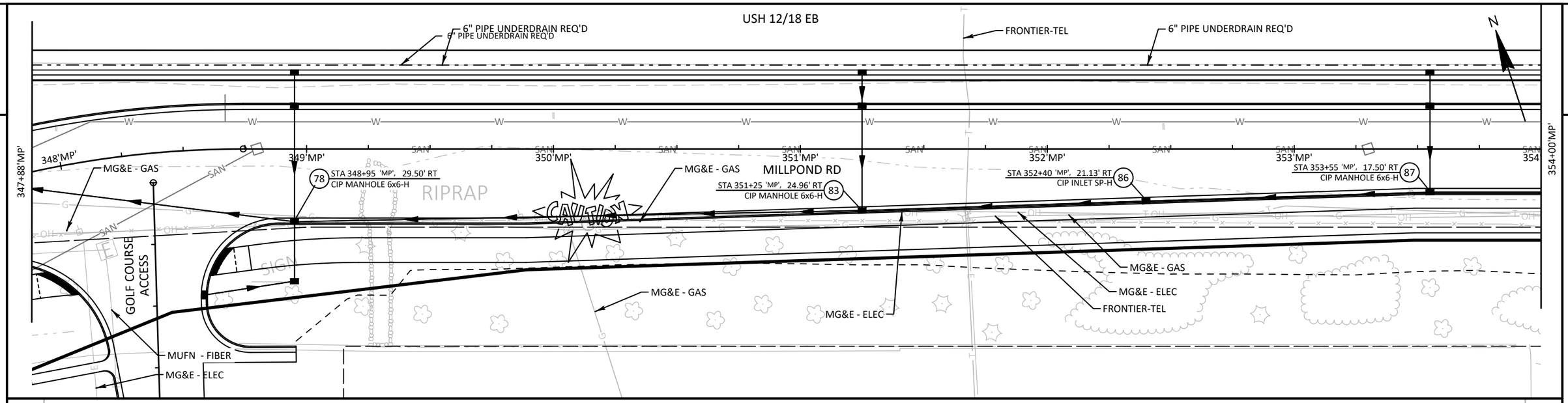
H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 203	E



NOTE:
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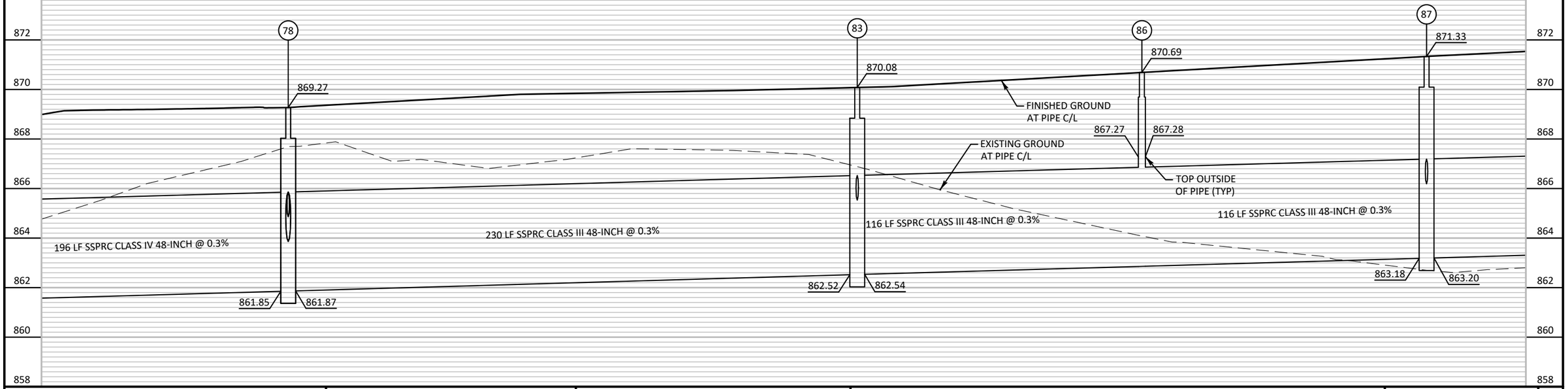
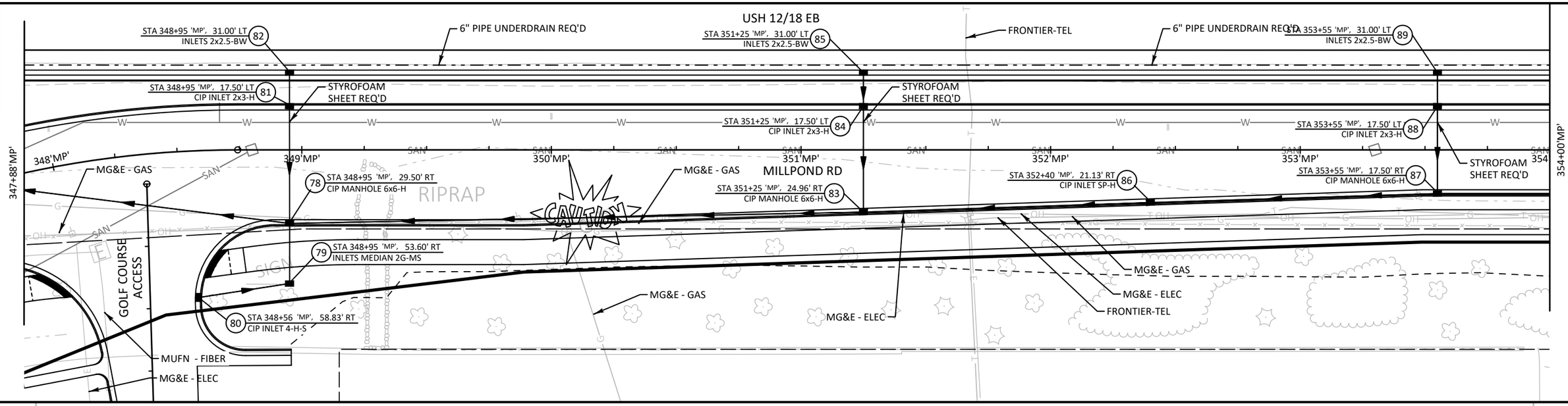
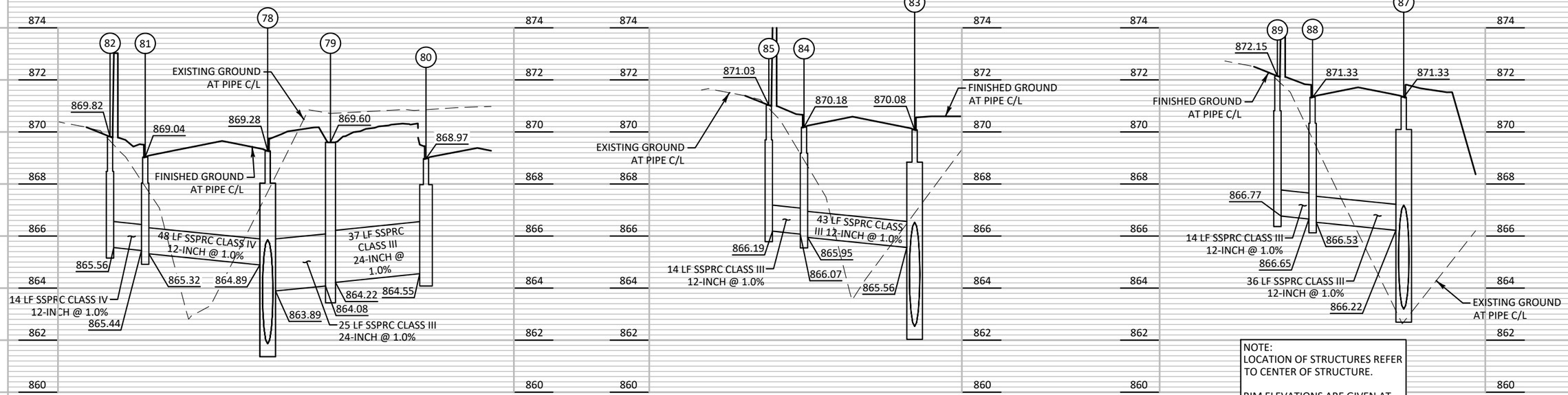
H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 204	E





NOTE:
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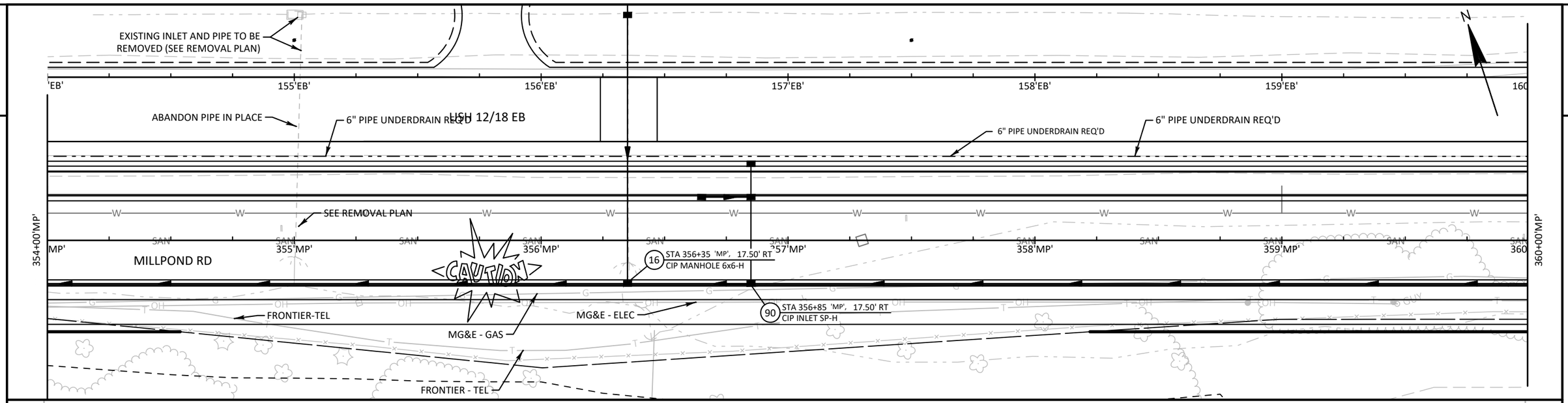
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONSTRUCTION DETAILS.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 205	E



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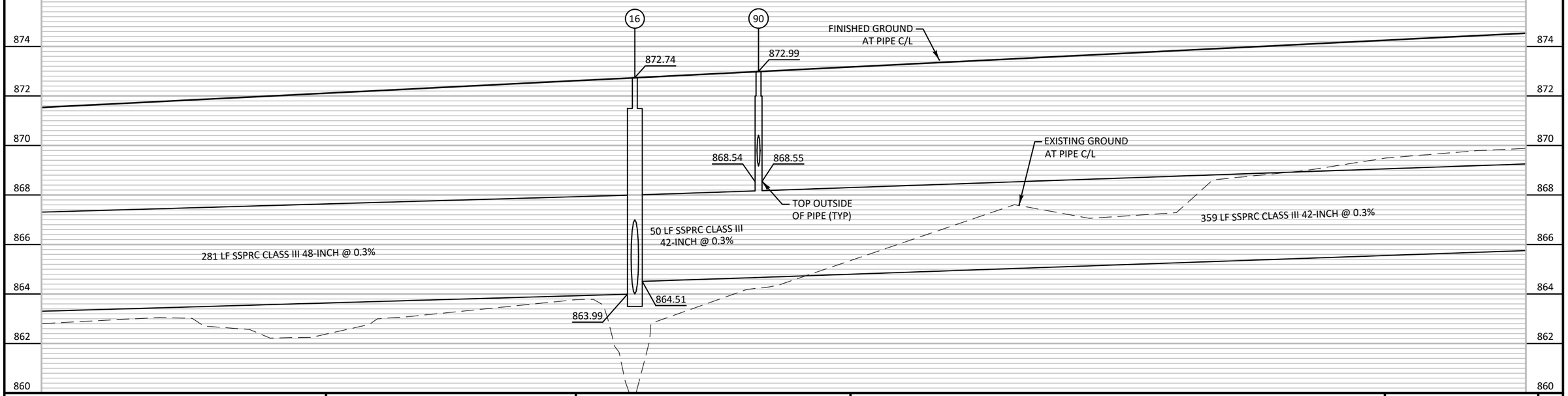

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 206	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022500_SS (STM SWR DETAILS).DWG
PLOT DATE : 3/10/2022 7:50 AM
PLOT BY : SEH
LAYOUT NAME : 06-A
PLOT SCALE : 1.0 IN = 40.0 FT
WISDOT/CADDS SHEET 42

2

EXISTING INLET AND PIPE TO BE REMOVED (SEE REMOVAL PLAN)

'EB' 155'EB' 156'EB' 157'EB' 158'EB' 159'EB' 160

ABANDON PIPE IN PLACE

6" PIPE UNDERDRAIN REQ'D

USH 12/18 EB

14 STA 356+85 'MP', 31.00' LT
INLETS 2x2.5-BW

6" PIPE UNDERDRAIN REQ'D

6" PIPE UNDERDRAIN REQ'D

STYROFOAM SHEET REQ'D

354+00'MP'

SEE REMOVAL PLAN

STA 356+65 'MP', 17.50' LT
CIP INLET 2x3-H 15

91 STA 356+85 'MP', 17.50' LT
CIP INLET 2x3-H

360+00'MP'

MP' 355'MP' 356'MP' 357'MP' 358'MP' 359'MP' 360

MILLPOND RD

CAUTION

FRONTIER-TEL

MG&E - GAS

MG&E - ELEC

90 STA 356+85 'MP', 17.50' RT
CIP INLET SP-H

FRONTIER - TEL

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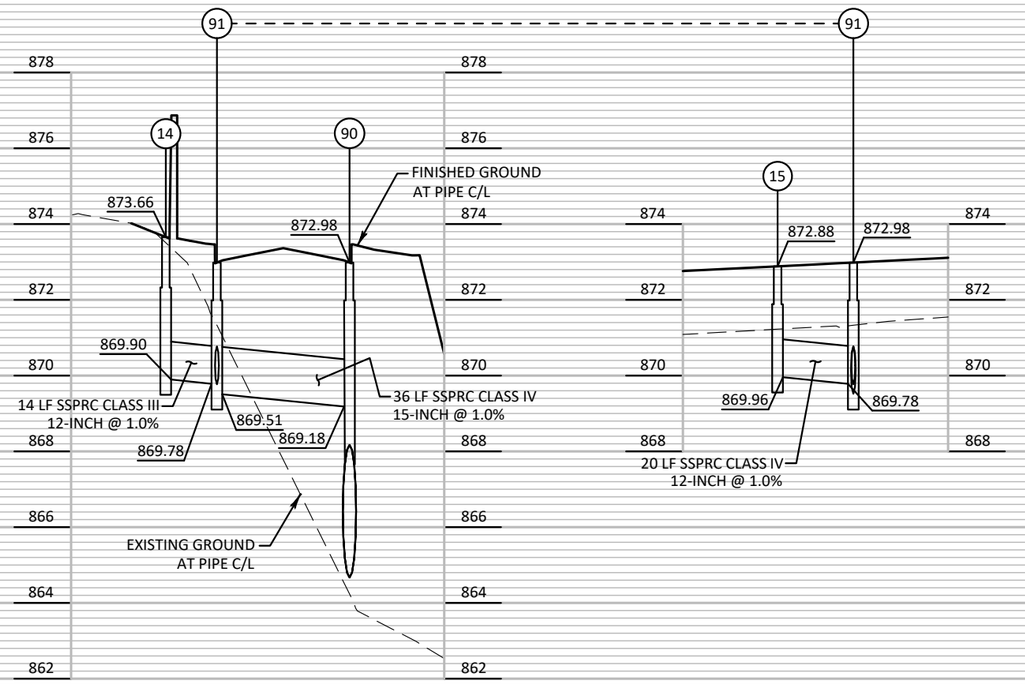
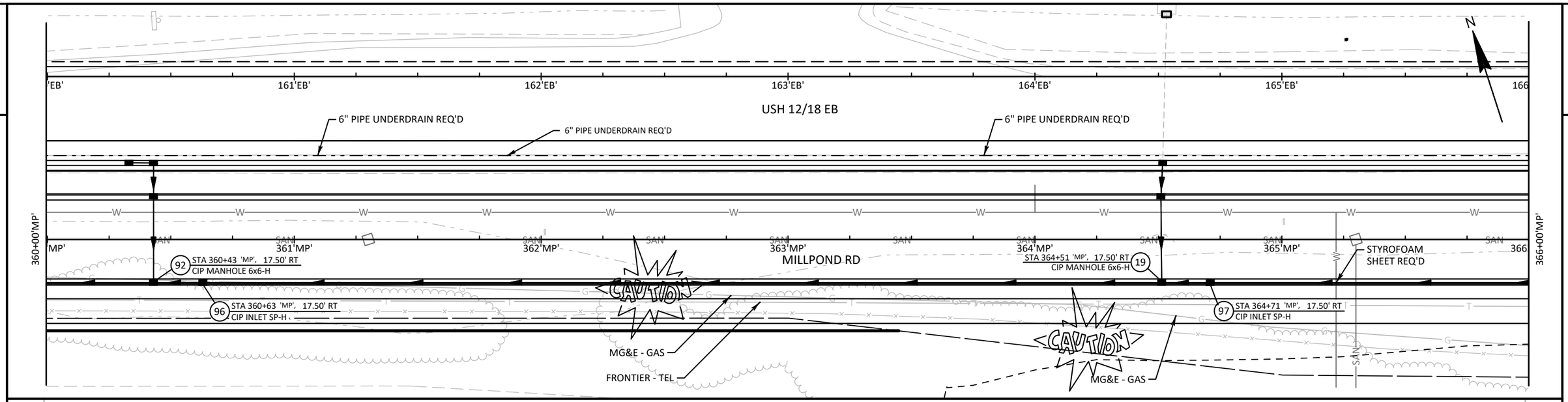


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 207	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022500_SS (STM SWR DETAILS).DWG PLOT DATE : 3/10/2022 7:50 AM PLOT BY : SEH LAYOUT NAME : 06-B PLOT SCALE : 1.0 IN = 40.0 FT
WISDOT/CADDS SHEET 42



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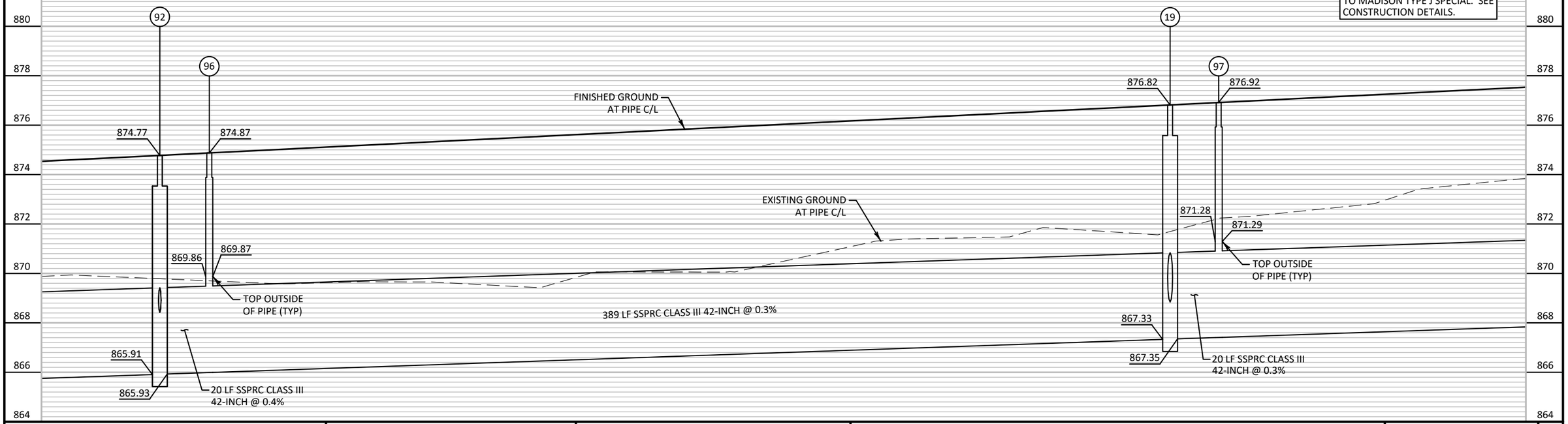
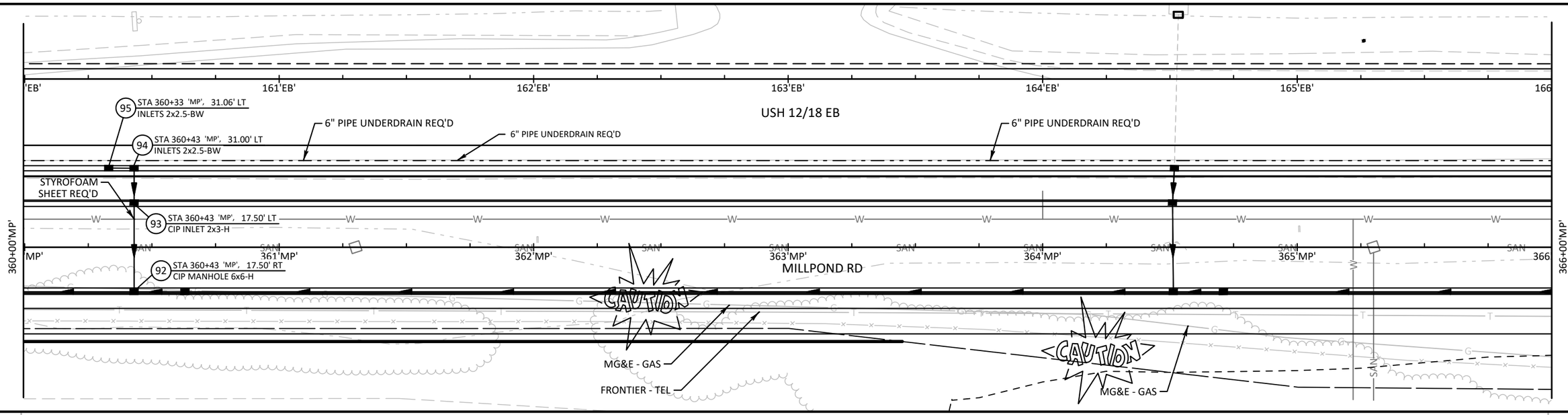


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 208	E



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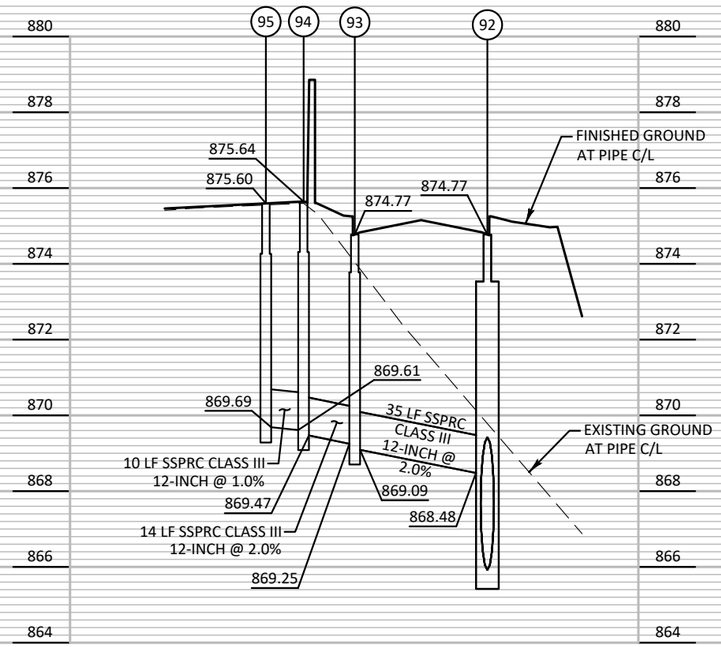
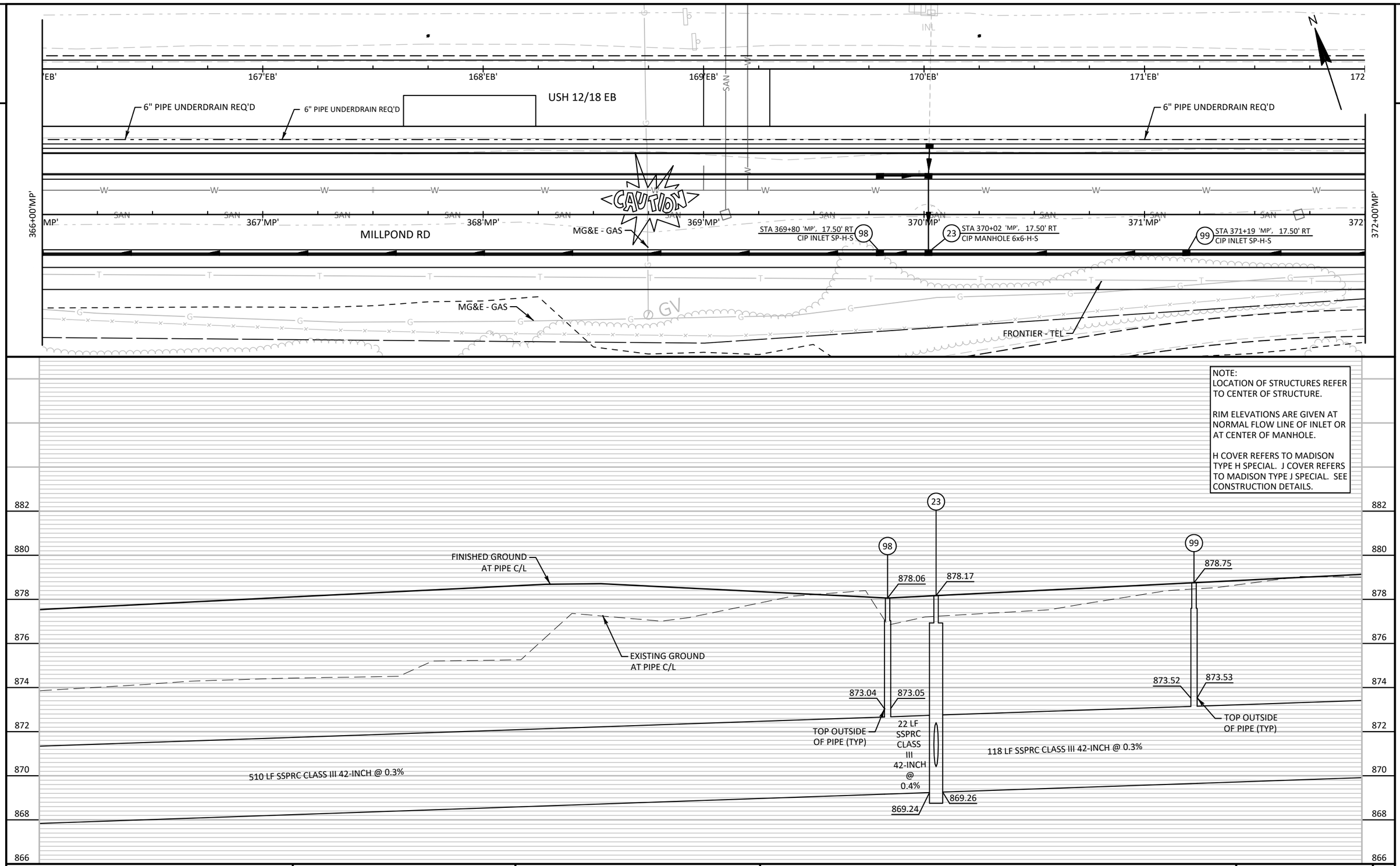
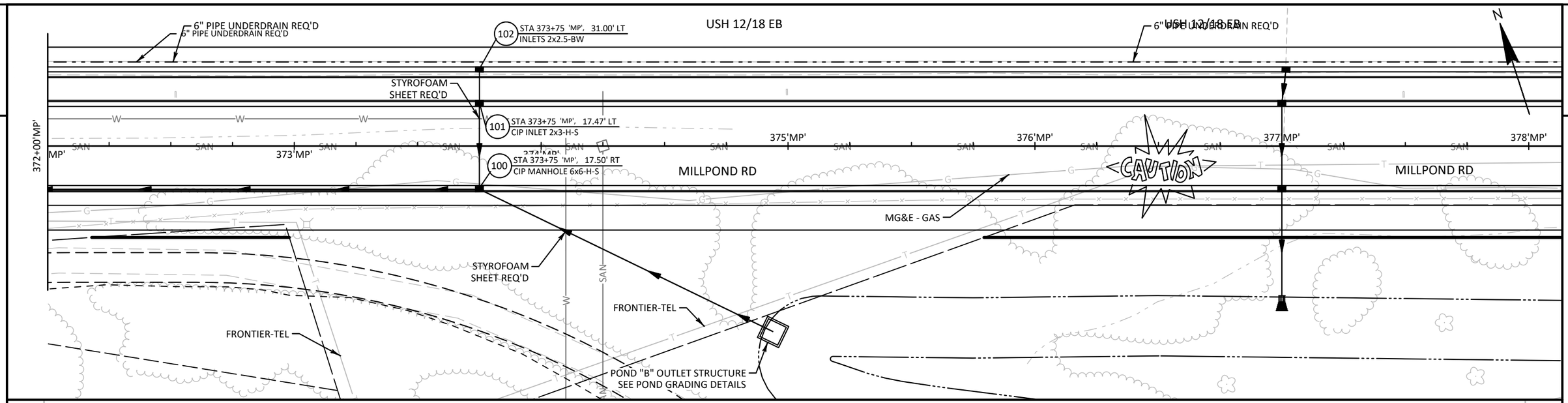


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 209	E



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 210	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\022500_SS (STM SWR DETAILS).DWG
PLOT DATE : 3/10/2022 7:51 AM
PLOT BY : SEH
LAYOUT NAME : 08-A
PLOT SCALE : 1.0 IN = 40.0 FT
WISDOT/CADDS SHEET 42



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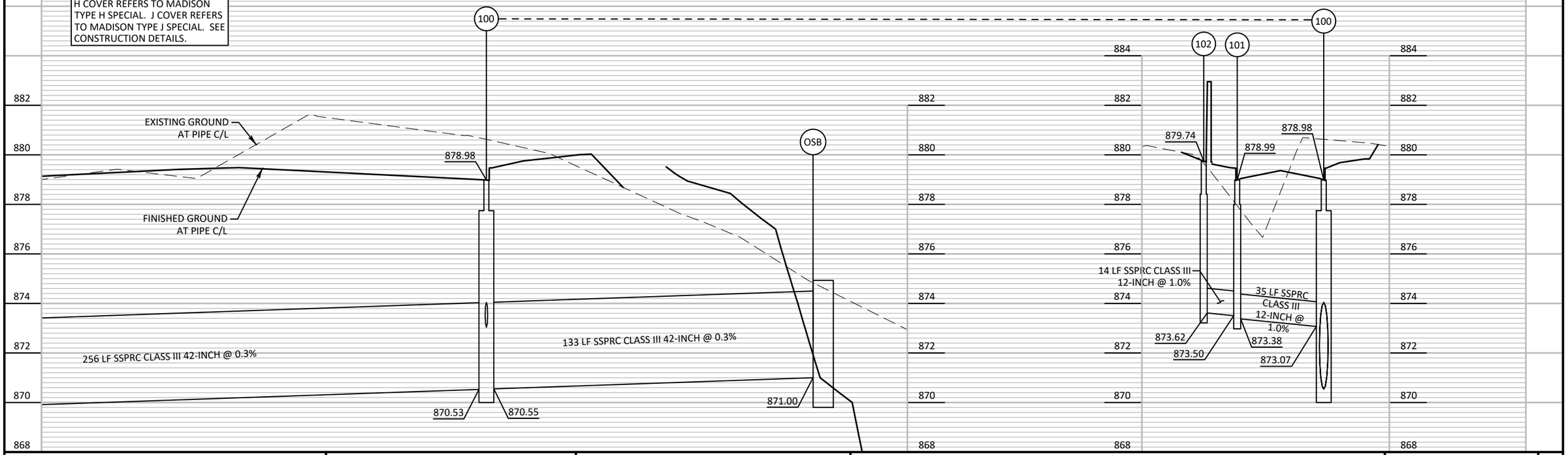
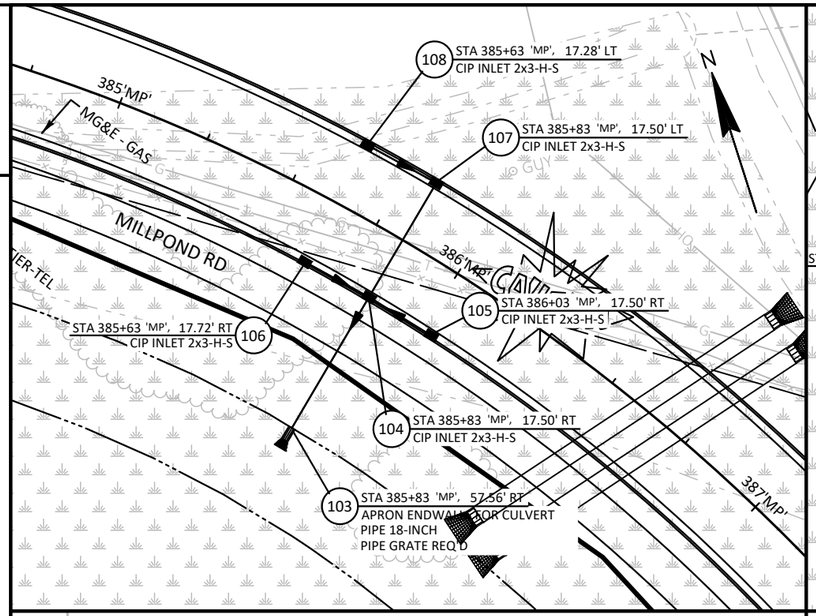
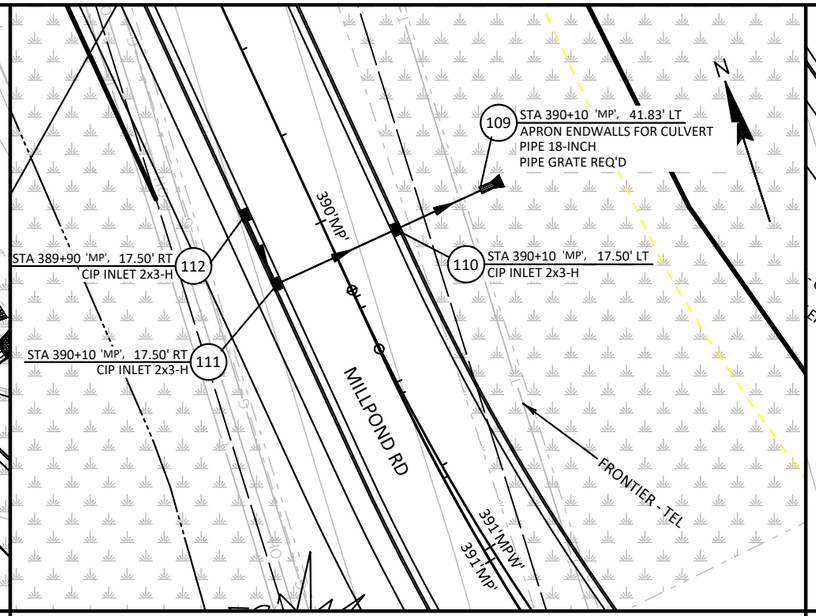
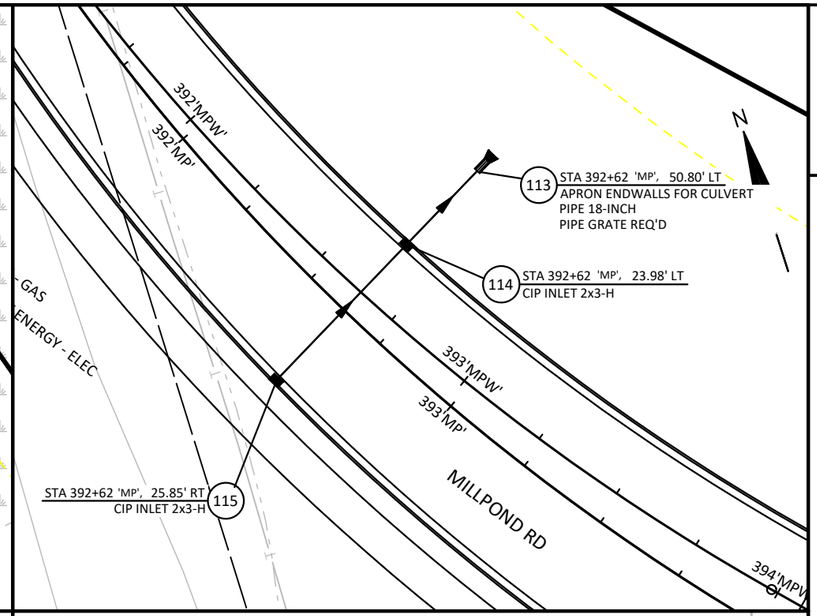
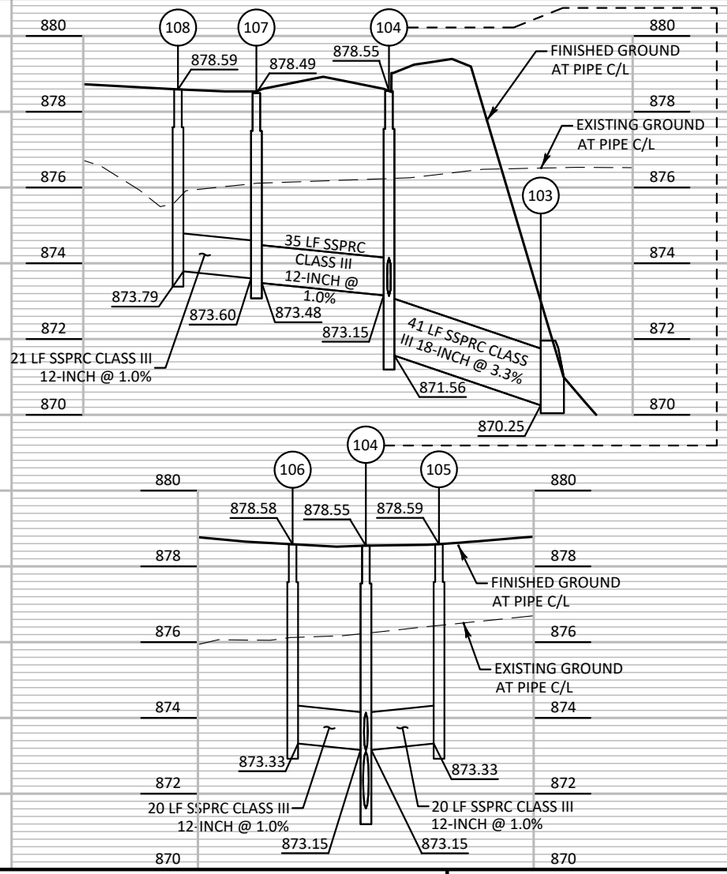


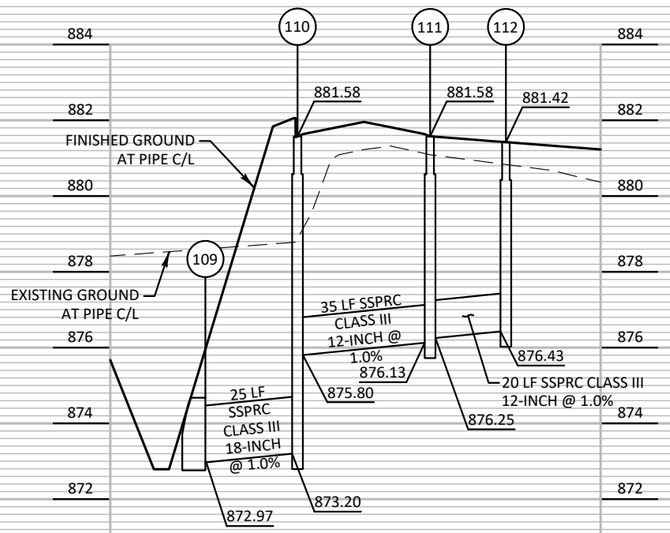
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 211	E











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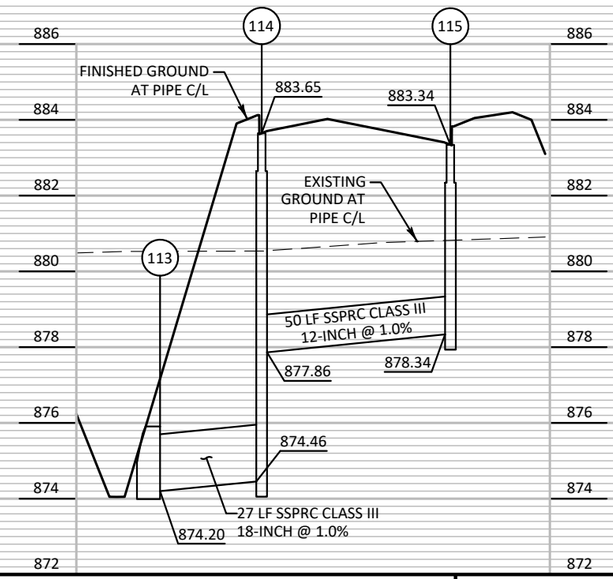
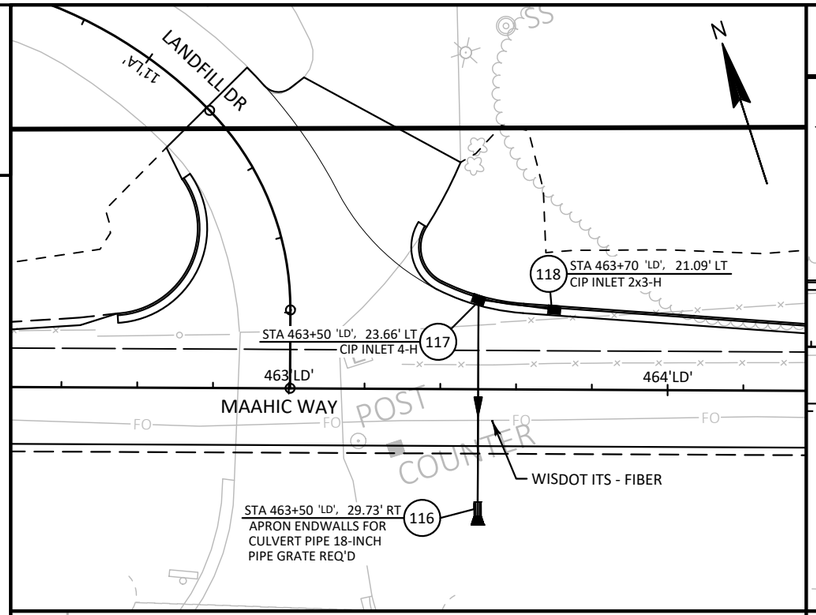
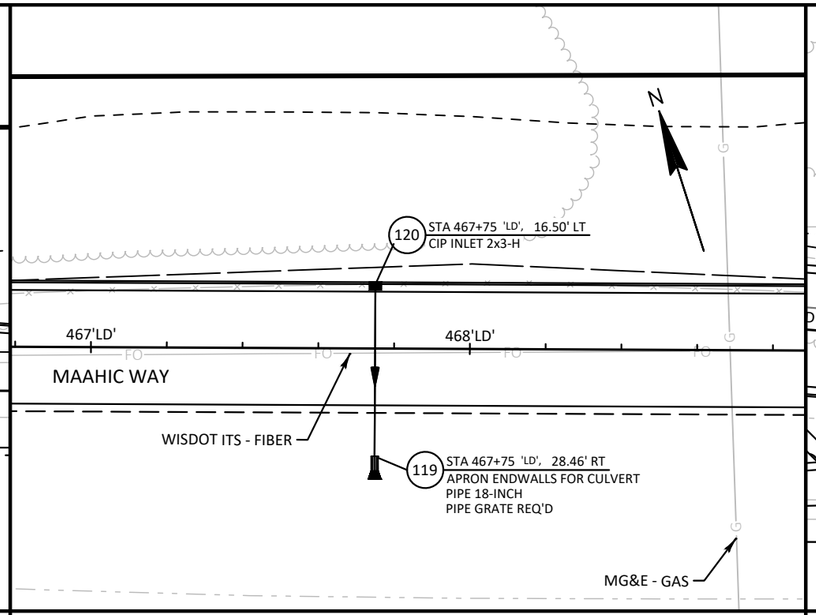
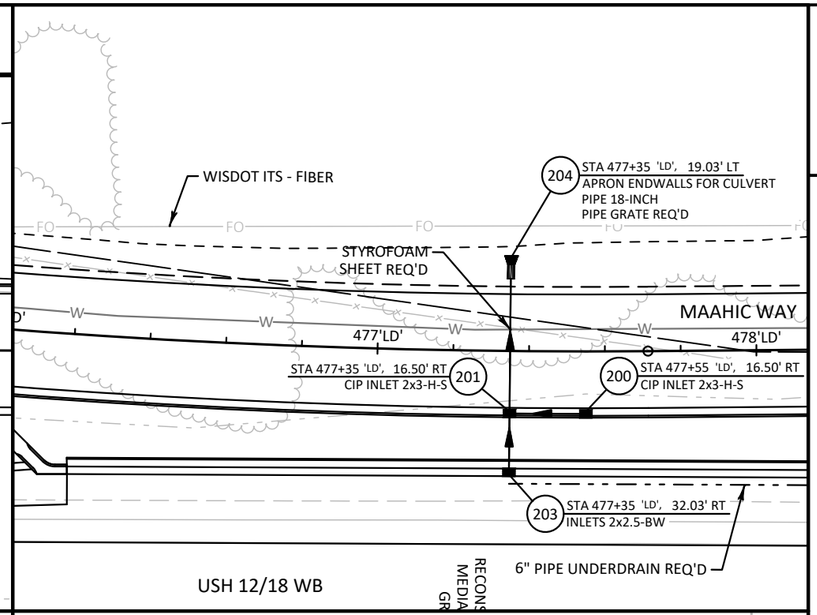
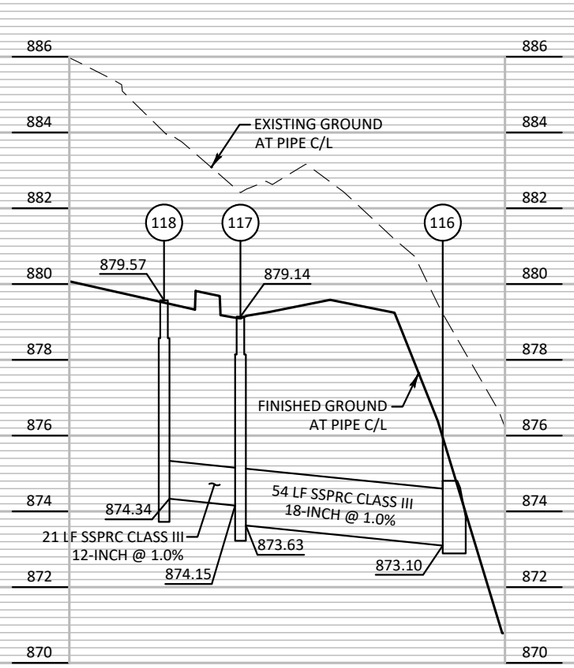


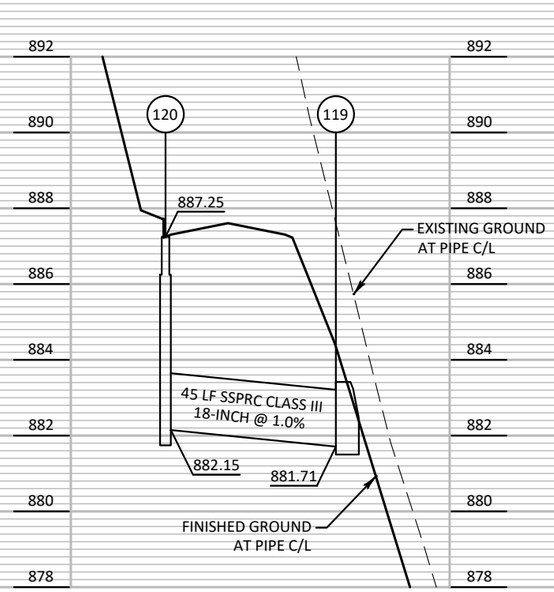
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 212	E

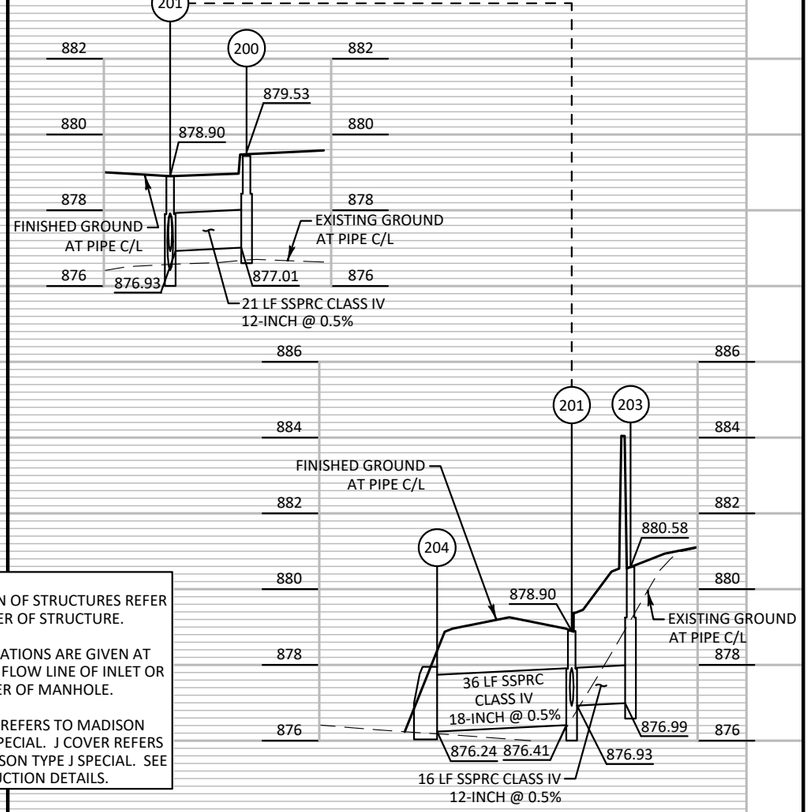












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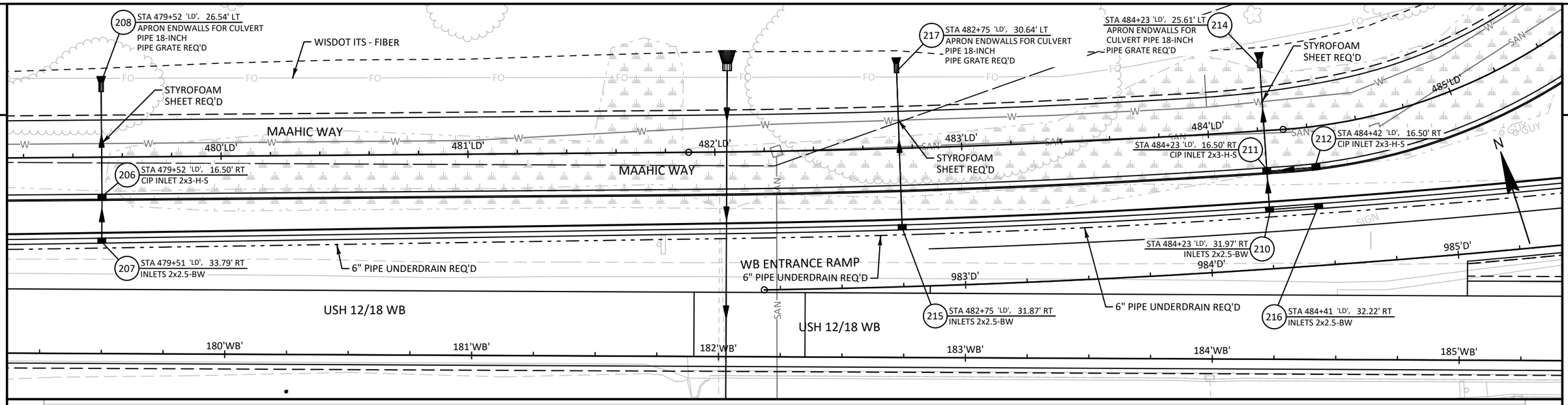
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 213	E



2

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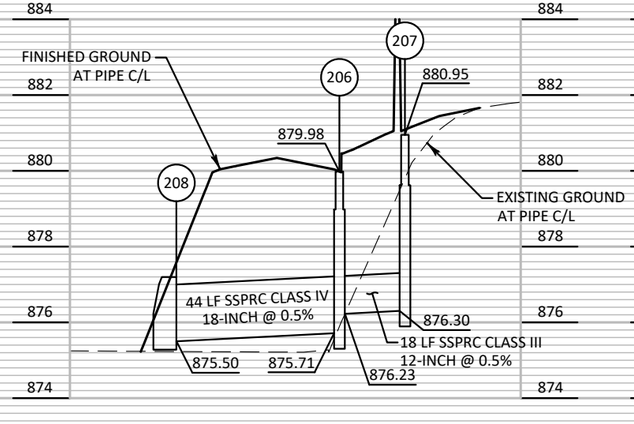
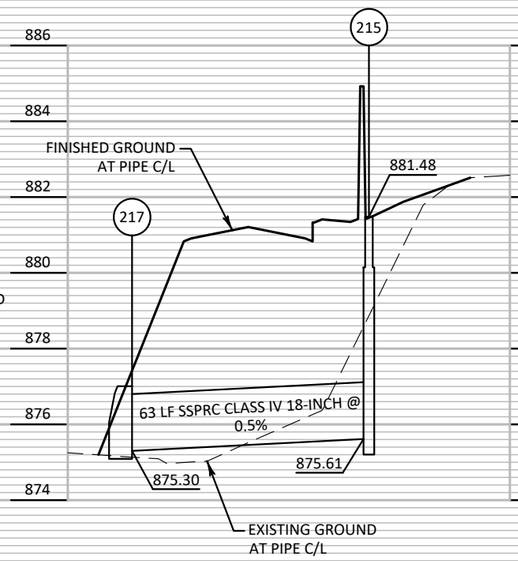
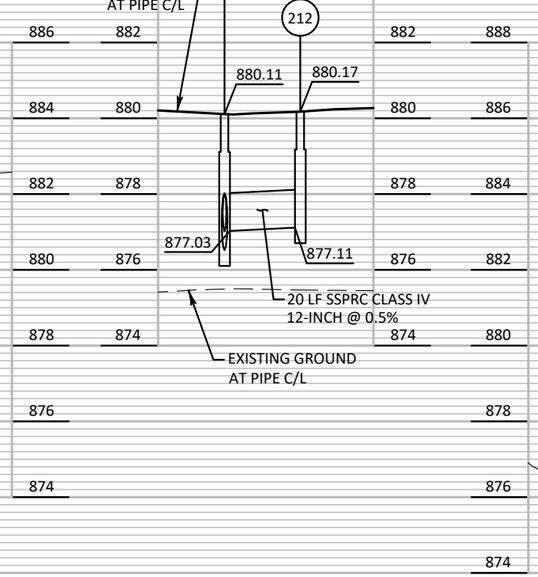
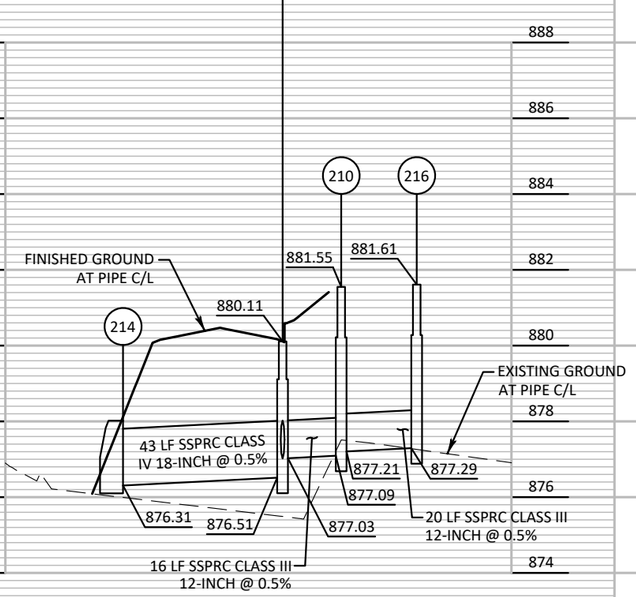








PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	STORM SEWER DETAILS	SHEET 214	E

2

LEGEND

INSULATION

MH

1+15.2, 0.0'
12" GV

1+00.0, 0.0'
CONNECT TO EXISTING
WATER SYSTEM

1+27.2, 0.0'
11 1/4° BEND

1+73.7, 0.0'
11 1/4° BEND

4+34.0, 18.5 LT
HYDRANT
BREAKOFF 867.16
4+34.0, 5.5' LT
6" GV
4+34.0, 0.0'
12" X 6" TEE

4+44.0, 0.0'
12" GV

12" DI (2012)

12" WM DI

12" WM DI

437+00'LD'

438+00'LD'

2+00 W1

439+00'LD'

3+00 W1

440+00'LD'

4+00 W1

441+00'LD'

5+00 W1

442+00'LD'

MAAHIC WAY

CAUTION

5+75 MATCH LINE

2

880
875
870
865
860
855
850

11 1/4° BEND
T/P 859.5

11 1/4° BEND
T/P 859.5

12" X 6" TEE
T/P 862.5
RIM 869.2
T/P 862.6

EX GROUND

FINISHED GRADE AT WM

6' MIN COVER

12" WM

EX 12" WM

12" WM

8" HIGH PRESSURE GAS
INV: 860.87

CAUTION

FINISHED GRADE AT WM

TOP OF WM

| | | |

2

LEGEND

INSULATION

9+38.9, 18.5 LT
HYDRANT
BREAKOFF 867.92
9+38.9, 5.5' LT
6" GV
9+38.9, 0.0'
12" X 6" TEE

9+48.9, 0.0' RT
12" GV

9+56.8, 0.0'
45° BEND

9+70.8, 0.0'
45° BEND

6+00 W1
443+00'LD'
7+00 W1
444+00'LD'
12" WM DI
8+00 W1
445+00'LD'
9+00 W1
446+00'LD'
447+00'LD'
448+00'LD'

5.5'

MAAHIC WAY

9+75 MATCH LINE

5+75 MATCH LINE

CAUTION

CAUTION

VENT

VENT

N

880
875
870
865
860
855
850

EX GROUND

FINISHED GRADE AT WM

6' MIN COVER

12" WM

12" WM

12" X 6" TEE
T/P 863.3
12" GV
RIM 870.0
T/P 863.5
45° BEND
T/P 863.5
45° BEND
T/P 863.5

HIGH PRESSURE GAS

CAUTION

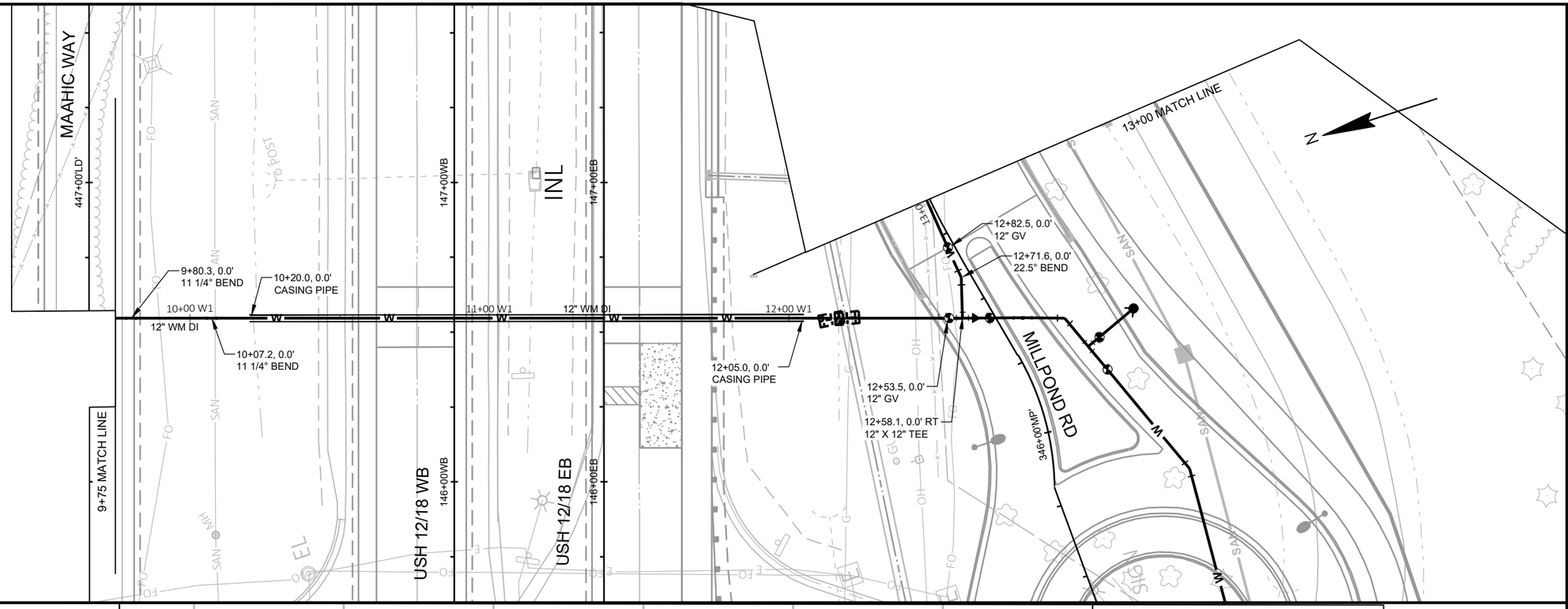
FINISHED GRADE AT WM

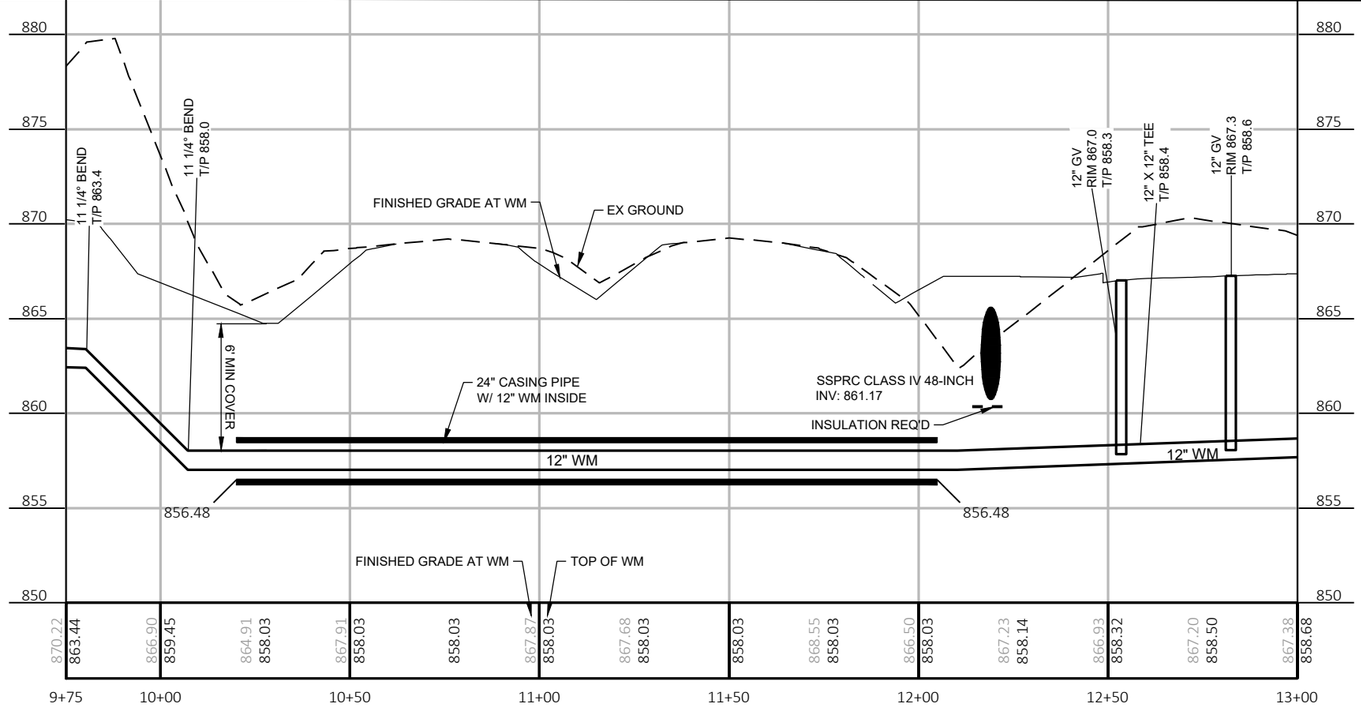
TOP OF WM

| | | |

LEGEND

INSULATION





PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	WATER MAIN	SHEET 217	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_023001_UP WATER.DWG
LAYOUT NAME - 3 WM

PLOT DATE : 2/1/2022 12:38 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

INSULATION

INL

147+00EB | 148+00EB | 149+00EB | 150+00EB | 151+00EB | 152+00EB

USH 12/18 EB

14+84.1, 11.0 LT
HYDRANT
BREAKOFF 869.24
14+84.1, 3.0' LT
6" GV
14+84.1, 0.0'
12" X 6" TEE

14+94.1, 0.0'
12" GV

14+29.4, 0.0'
22.5° BEND

15+00 W1 | 16+00 W1 | 12" WM DI | 17+00 W1 | 18+00 W1 | 19+0

349+00'MP' | 350+00'MP' | 351+00'MP' | 352+00'MP'

11'

14+00 W1

348+00'MP'

MILLPOND RD

CAUTION

CAUTION

13+00 MATCHLINE

347+00'MP'

19+00 MATCH LINE

N

22.5° BEND
T/P 862.3

12" X 6" TEE
T/P 862.6

FINISHED GRADE AT WM

EX GROUND

6' MIN COVER

SSPRC CLASS III 12-INCH
INV: 865.89

INSULATION REQ'D

SSPRC CLASS IV 12-INCH
INV: 865.27

INSULATION REQ'D

SSPRC CLASS IV 48-INCH
INV: 861.47

SSPRC CLASS IV 24-INCH
INV: 862.61

12" WM

INSULATION REQ'D

INSULATION REQ'D

SANITARY SEWER

FINISHED GRADE AT WM

TOP OF WM

867.38	867.63	867.97	868.29	868.55	868.68	868.85	869.00	869.13	869.26	869.38	869.51	869.63	869.76	869.88	870.01	870.13	870.26	870.38	870.51	870.63	870.76	870.88	871.01	871.13
858.68	858.87	859.05	859.23	862.21	862.32	862.43	862.55	862.66	862.77	862.89	863.00	863.12	863.23	863.34	863.46	863.57	863.68	863.80	863.91	864.03	864.14	864.25	864.37	864.48

13+00 | 13+50 | 14+00 | 14+50 | 15+00 | 15+50 | 16+00 | 16+50 | 17+00 | 17+50 | 18+00 | 18+50 | 19+00

880 | 875 | 870 | 865 | 860 | 855 | 850

PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	WATER MAIN	SHEET 218	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_023001_UP WATER.DWG
LAYOUT NAME - 4 WM

PLOT DATE : 2/1/2022 12:38 PM | PLOT BY : AYRES | PLOT NAME : | PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

INSULATION

INL

USH 12/18 EB

MILLPOND RD

153+00EB | 154+00EB | 155+00EB | 156+00EB | 157+00EB | 158+00EB

20+17.1, 11.0 LT
HYDRANT
BREAKOFF 872.11
20+17.1, 3.0' LT
6" GV
20+17.1, 0.0'
12" X 6" TEE

20+27.1, 0.0'
12" GV

22+42.1, 0.0'
45° BEND
22+46.6, 0.0'
45° BEND
22+57.6, 0.0'
45° BEND
22+62.2, 0.0'
45° BEND

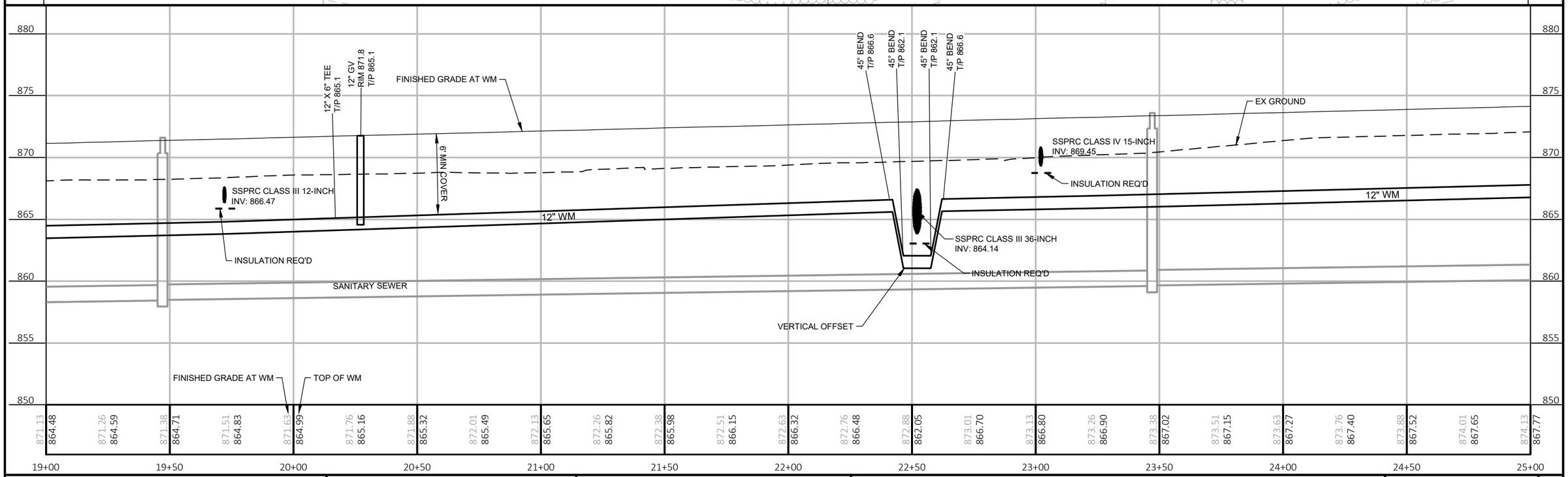
19+00 MATCH LINE

25+00 MATCH LINE

20+00 W1 | 21+00 WM DI | 22+00 W1 | 23+00 W1 | 12" WM 24+00 W1

353+00'MP' | 354+00'MP' | 355+00'MP' | 356+00'MP' | 357+00'MP' | 358+00'MP'

N



PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	WATER MAIN	SHEET 219	E

LEGEND

INSULATION

25+17.1, 11.0 LT
HYDRANT
BREAKOFF 874.61
25+17.1, 3.0' LT
6" GV
25+17.1, 0.0'
12" X 6" TEE

25+27.1, 0.0'
12" GV

30+17.1, 11.0 LT
HYDRANT
BREAKOFF 877.09
30+17.1, 3.0' LT
6" GV
30+17.1, 0.0'
12" X 6" TEE

30+27.1, 0.0'
12" GV

30+59.5, 0.0'
45° BEND
30+62.5, 0.0'
45° BEND
30+73.6, 0.0'
45° BEND
30+76.7, 0.0'
45° BEND

USH 12/18 EB

MILLPOND RD

25+00 MATCH LINE

31+00 MATCH LINE

12" X 6" TEE
T/P 868.0

12" GV
RIM 874.3
T/P 867.9

FINISHED GRADE AT WM

EX GROUND

6' MIN COVER

SSPRC CLASS III 12-INCH
INV: 868.99

INSULATION REQ'D

12" WM

FINISHED GRADE AT WM

TOP OF WM

SANITARY SEWER

12" X 6" TEE
T/P 870.4

12" GV
RIM 876.8
T/P 870.5

45° BEND
T/P 870.7

45° BEND
T/P 867.6

45° BEND
T/P 867.6

45° BEND
T/P 870.7

SSPRC CLASS III 24-INCH
INV: 869.41

INSULATION REQ'D

VERTICAL OFFSET

874.13	874.26	874.38	874.51	874.63	874.76	874.88	875.01	875.13	875.26	875.38	875.51	875.63	875.76	875.88	876.01	876.13	876.26	876.38	876.51	876.63	876.76	876.88	877.01	877.13
867.77	867.90	868.02	868.15	868.28	868.41	867.40	867.69	868.84	868.96	869.08	869.20	869.32	869.44	869.56	869.68	869.80	869.92	870.04	870.16	870.28	870.40	870.52	869.01	870.85

25+00 25+50 26+00 26+50 27+00 27+50 28+00 28+50 29+00 29+50 30+00 30+50 31+00

PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	WATER MAIN	SHEET 220	E

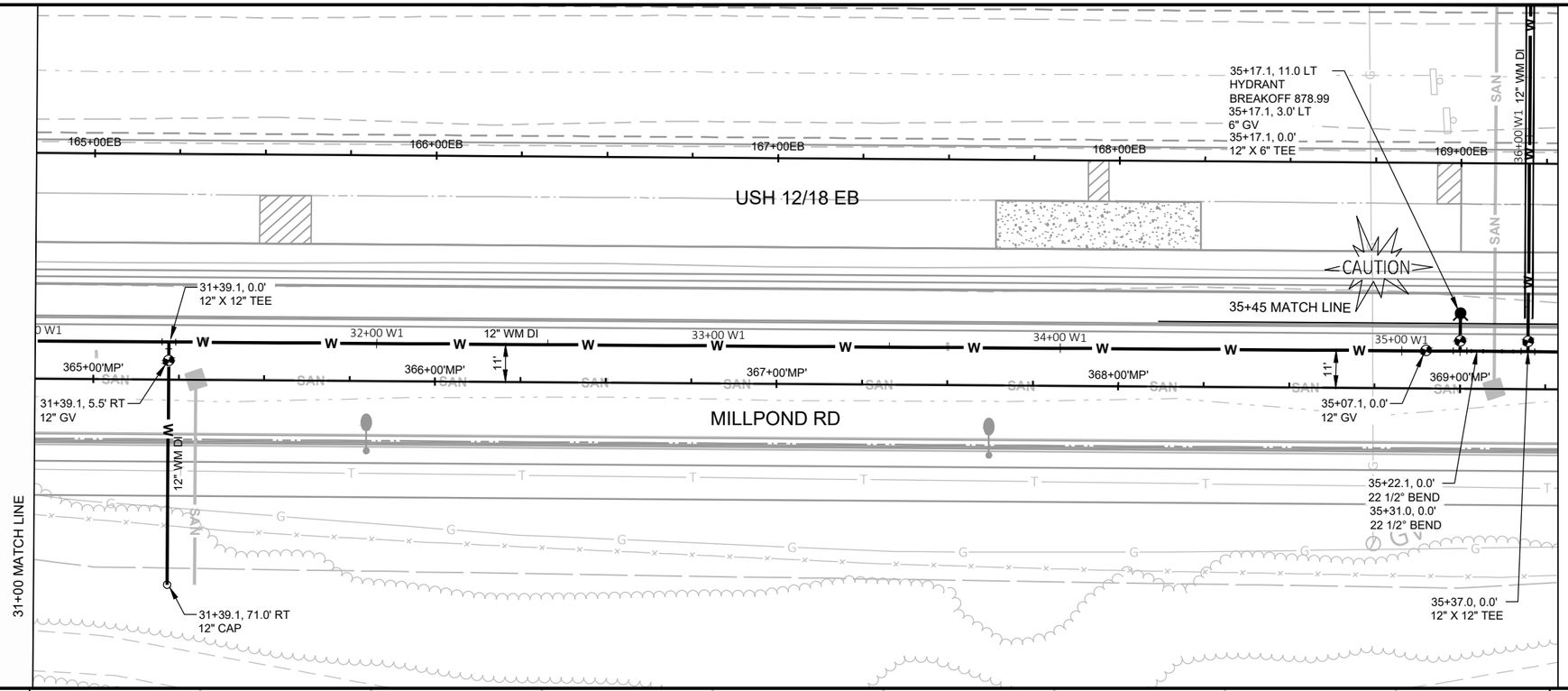
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_023001_UP WATER.DWG
LAYOUT NAME - 6 WM

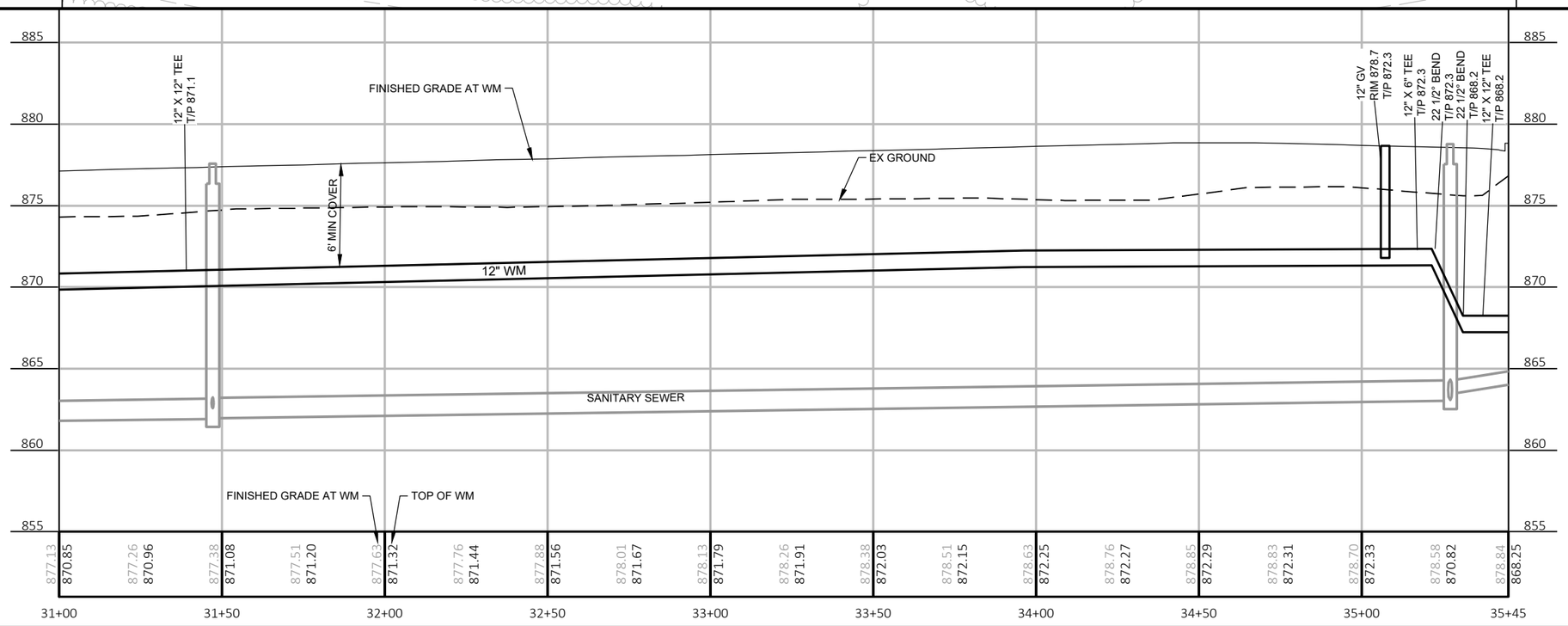
PLOT DATE : 2/1/2022 12:38 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

INSULATION





PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	WATER MAIN	SHEET 221 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_023001_UP WATER.DWG
LAYOUT NAME - 7 WM

PLOT DATE : 2/1/2022 12:39 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

INSULATION

USH 12/18 EB

USH 12/18 WB

MAAHIC WAY

MILLPOND RD

35+45 MATCH LINE

35+00 W1

36+00 W1 12" WM DI

37+00 W1

1+00 WS2

369+00MP'

370+00MP'

169+00EB

169+00WB

170+00EB

170+00WB

469+001.D'

11'

10'

35+37.0, 0.0'
12" X 12" TEE

35+40.0, 0.0'
12" GV

35+46.7, 0.0' RT
CASING PIPE

37+02.6, 0.0'
CASING PIPE

37+09.7, 0.0'
22 1/2° BEND

37+39.0, 0.0'
22 1/2° BEND

37+47.7, 0.0'
45° BEND

37+64.2, 0.0'
12" X 12" TEE
37+64.3, 6.6' LT
12" GV

37+79.1, 0.0'
45° BEND

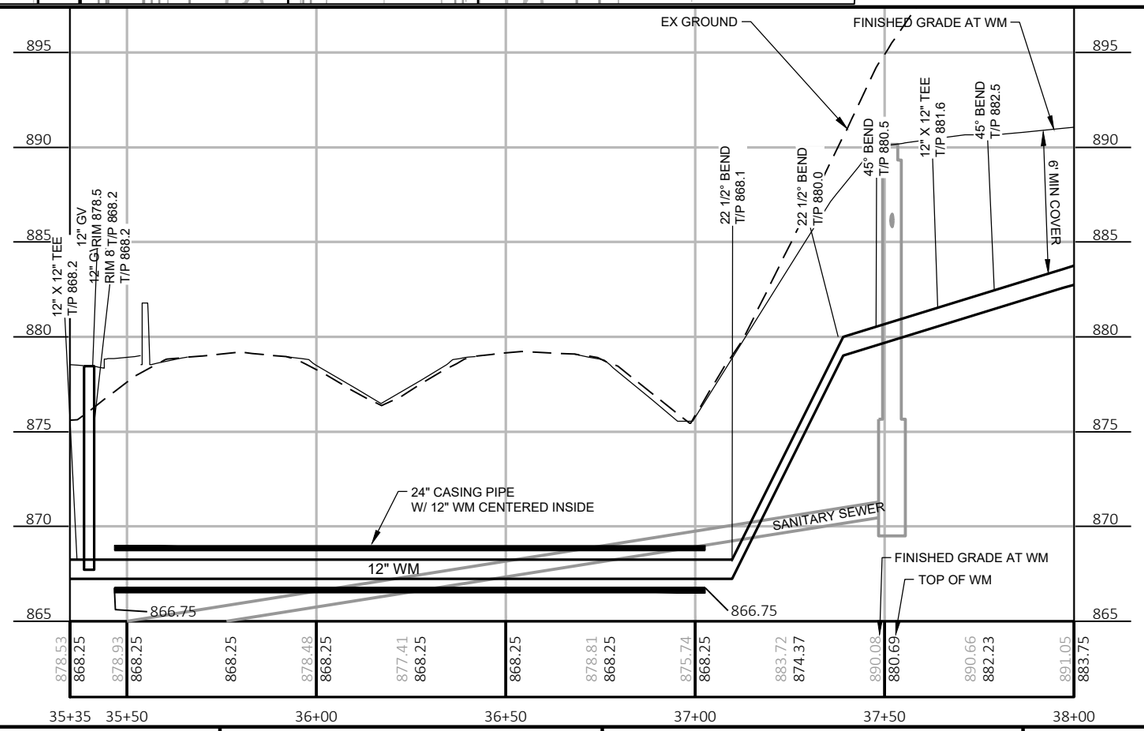
0+21.7, 0.0'
45° BEND

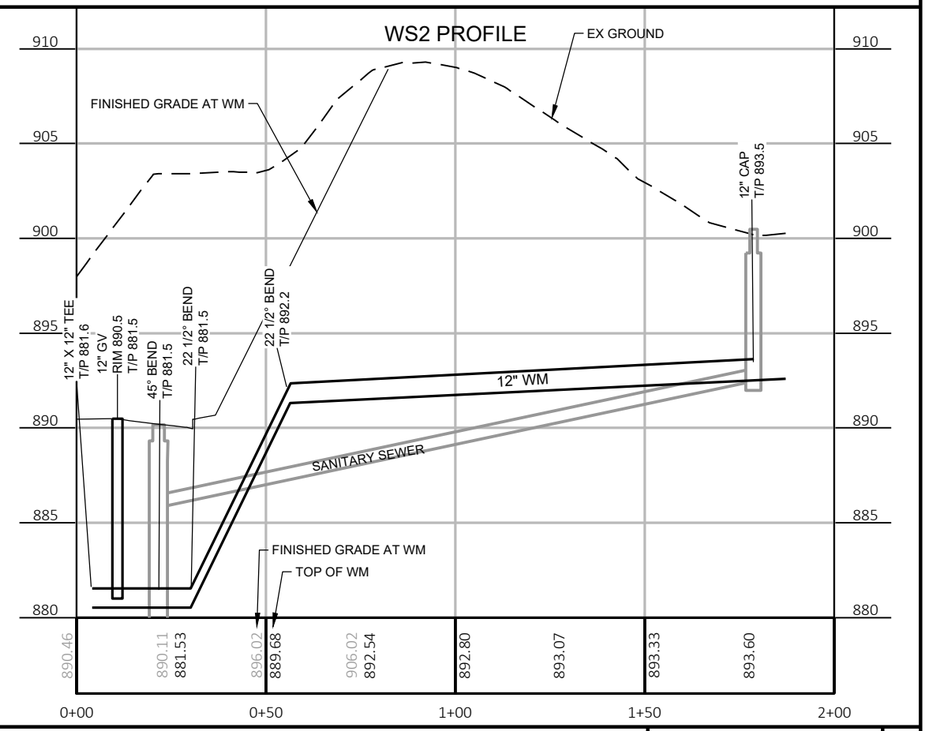
0+30.1, 0.0'
22 1/2° BEND

1+78.7, 0.0'
12" CAP

38+00 MATCHLINE

N





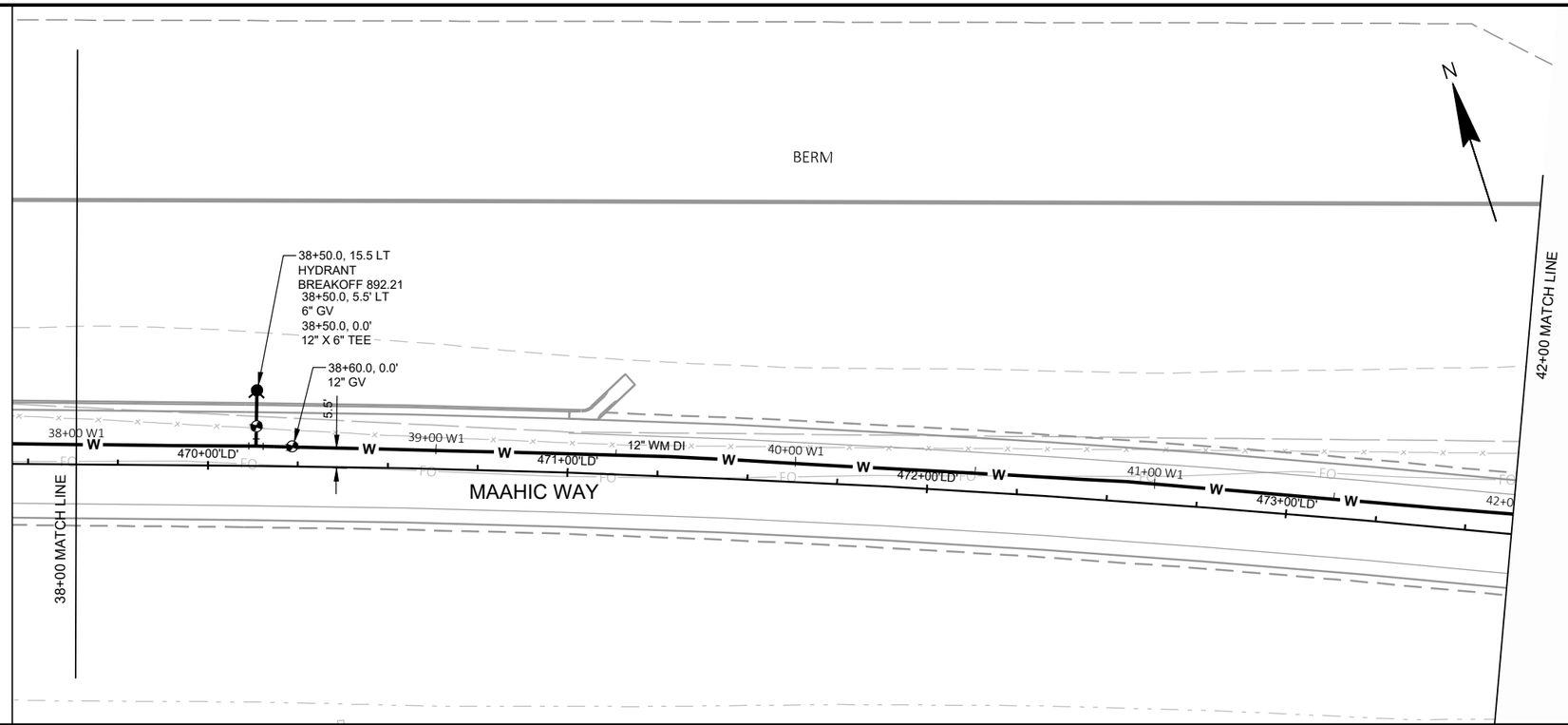
PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	WATER MAIN	SHEET 222	E

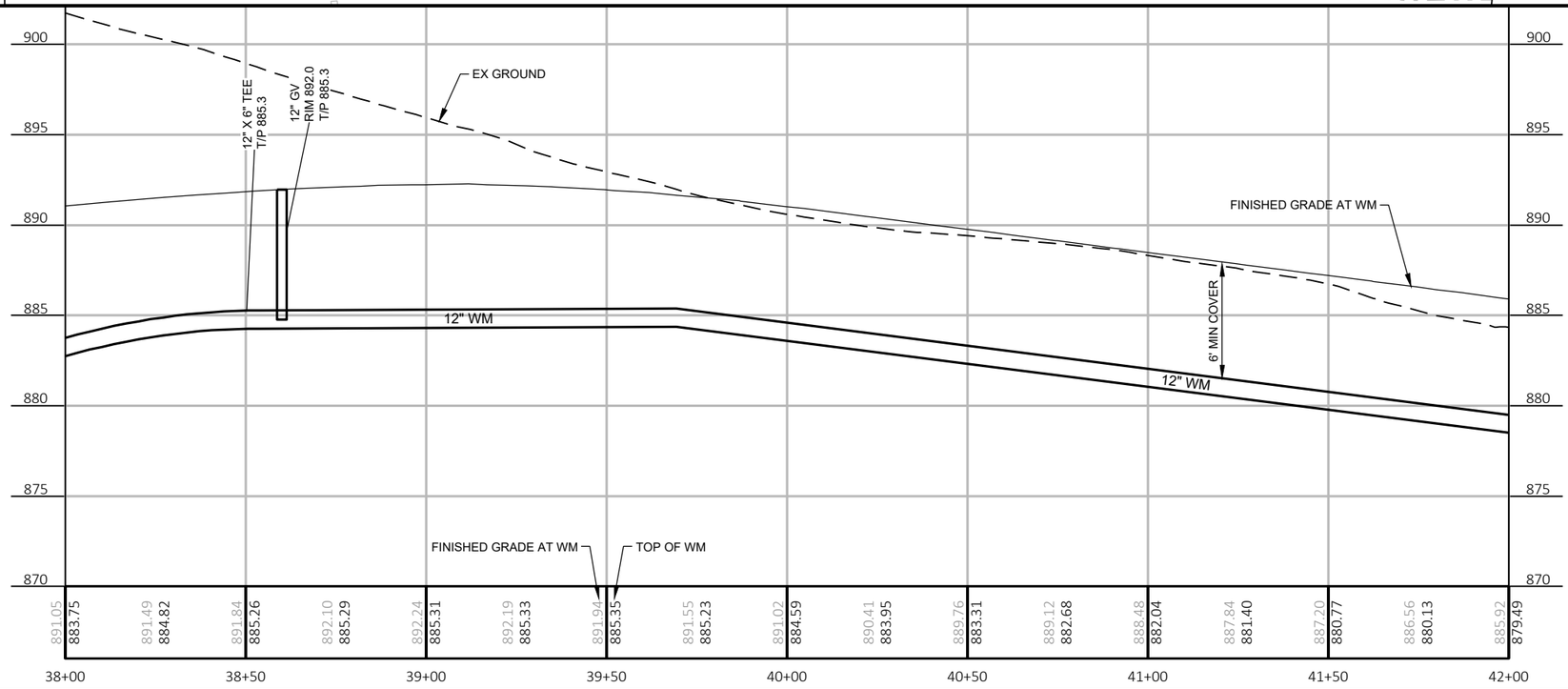
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_023001_UP WATER.DWG
LAYOUT NAME - 8 WM

PLOT DATE : 2/1/2022 12:39 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

INSULATION





PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	WATER MAIN	SHEET 223	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_023001_UP WATER.DWG
LAYOUT NAME - 9 WM

PLOT DATE : 2/1/2022 12:39 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

INSULATION

42+37.2, 18.5 LT
HYDRANT
BREAKOFF 882.98

42+37.2, 5.5' LT
6" GV
42+37.2, 0.0'
12" X 6" TEE

42+47.2, 0.0'
12" GV

47+36.5, 18.5 LT
HYDRANT
BREAKOFF 877.95
47+36.5, 5.5' LT
6" GV
47+36.5, 0.0'
12" X 6" TEE

47+46.5, 0.0'
12" GV

42+00 MATCH LINE

48+00 MATCH LINE

MAAHIC WAY

USH 12/18 WB

12" X 6" TEE
T/P 878.7
12" GV
RIM 884.7
T/P 878.5

FINISHED GRADE AT WM

SSPRC CLASS IV 18-INCH
INV: 876.31

EX GROUND

6" MIN COVER

INSULATION REQ'D

12" X 6" TEE
T/P 873.7

12" GV
RIM 880.0
T/P 873.8

INSULATION REQ'D

FINISHED GRADE AT WM

TOP OF WM

| | | |

LEGEND

INSULATION

2

2

50+32.9, 0.0'
45° BEND
50+36.6, 0.0'
45° BEND

52+36.5, 13.0 LT
HYDRANT
BREAKOFF 878.46
52+36.2, 3.0' LT
6" GV
52+36.1, 0.0'
12" X 6" TEE

52+46.0, 0.0'
12" GV

52+99.0, 0.0'
22.5° BEND

48+00 MATCH LINE

52+50 MATCH LINE

N

MAAHIC WAY

USH 12/18 WB

5.5'

12" WM DI

480+00'LD'
481+00'LD'
482+00'LD'
483+00'LD'
484+00'LD'
485+00'LD'

180+00WB
181+00WB
182+00WB
183+00WB
184+00WB
185+00WB

FO
SAN
SIGN
W

895
890
885
880
875
870
865

FINISHED GRADE AT WM
EX GROUND
12" WM
FINISHED GRADE AT WM
TOP OF WM

45° BEND
T/P 875.1
45° BEND
T/P 871.8

SSPRC CLASS III 36-INCH
INV: 873.79

VERTICAL OFFSET
INSULATION REQ'D

SSPRC CLASS IV 18-INCH
INV: 875.40

6' MIN COVER

INSULATION REQ'D
SANITARY SEWER

12" X 6" TEE
T/P 874.1
12" GV
RIM 880.3
T/P 874.0

SSPRC CLASS IV 18-INCH
INV: 876.38

INSULATION REQ'D
12" WM

22.5° BEND
T/P 874.2

880.29	880.41	880.54	880.66	880.79	880.91	881.02	881.13	881.23	881.33	881.31	881.17	881.04	880.91	880.79	880.67	880.54	880.42	880.28	880.29	880.45	880.52	880.59
874.04	874.16	874.28	874.40	874.52	874.65	874.75	874.84	874.93	875.02	871.89	872.56	873.23	873.90	874.21	874.21	874.21	874.21	874.21	874.21	874.21	874.21	874.21

48+00 48+50 49+00 49+50 50+00 50+50 51+00 51+50 52+00 52+50 53+00 53+50

PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	WATER MAIN	SHEET 225	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_023001_UP WATER.DWG
LAYOUT NAME - 11 WM

PLOT DATE : 2/1/2022 12:39 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

INSULATION

53+50 MATCH LINE

MAAHIC WAY

12" WM DI

54+00 W1

54+12.9, 0.0'
22.5° BEND

54+51.8, 0.0'
45° BEND

55+00 W1

56+00 W1

57+00 W1

486+00'LD'

537+00'NB'

538+00'NB'

539+00'NB'

540+00'NB'

CTH AB

57+08.7, 12.9 LT
HYDRANT
BREAKOFF 884.51
57+08.7, 3.0' LT
6" GV
57+08.7, 0.0'
12" X 6" TEE
W/ 12" CAP

57+01.7, 0.0'
12" X 12" TEE

56+95.7, 0.0'
12" GV

57+01.7, 5.5' RT
12" GV

57+01.7, 37.1' RT
12" CAP

N

890
885
880
875
870
865
860

FINISHED GRADE AT WM

22.5° BEND
T/P 874.2

45° BEND
T/P 874.1

EX GROUND

6' MIN COVER

12" GV
RIM 884.5
T/P 877.6

12" X 12" TEE
T/P 878.3

12" X 6" TEE
W/ 12" CAP
T/P 878.3

SANITARY SEWER

FINISHED GRADE AT WM

TOP OF WM

| | | |

LEGEND

INSULATION

USH 12/18 EB

MILLPOND RD

169+00EB
170+00EB
171+00EB
172+00EB
173+00EB
174+00EB
175+00EB
369+00'MP'
370+00'MP'
371+00'MP'
372+00'MP'
373+00'MP'
374+00'MP'
375+00'MP'

2+08.0, 0.0'
45° BEND
2+11.6, 0.0'
45° BEND

1+30.9, 0.0'
12" GV

5+69.5, 0.0'
45° BEND
5+71.1, 0.0'
45° BEND
5+80.1, 0.0'
45° BEND
5+81.6, 0.0'
45° BEND

6+25.0, 11.0 LT
HYDRANT
BREAKOFF 879.77
6+25.0, 3.0' LT
6" GV
6+25.0, 0.0'
12" X 6" TEE
W/12" CAP

6+10.0, 0.0'
12" X 12" TEE

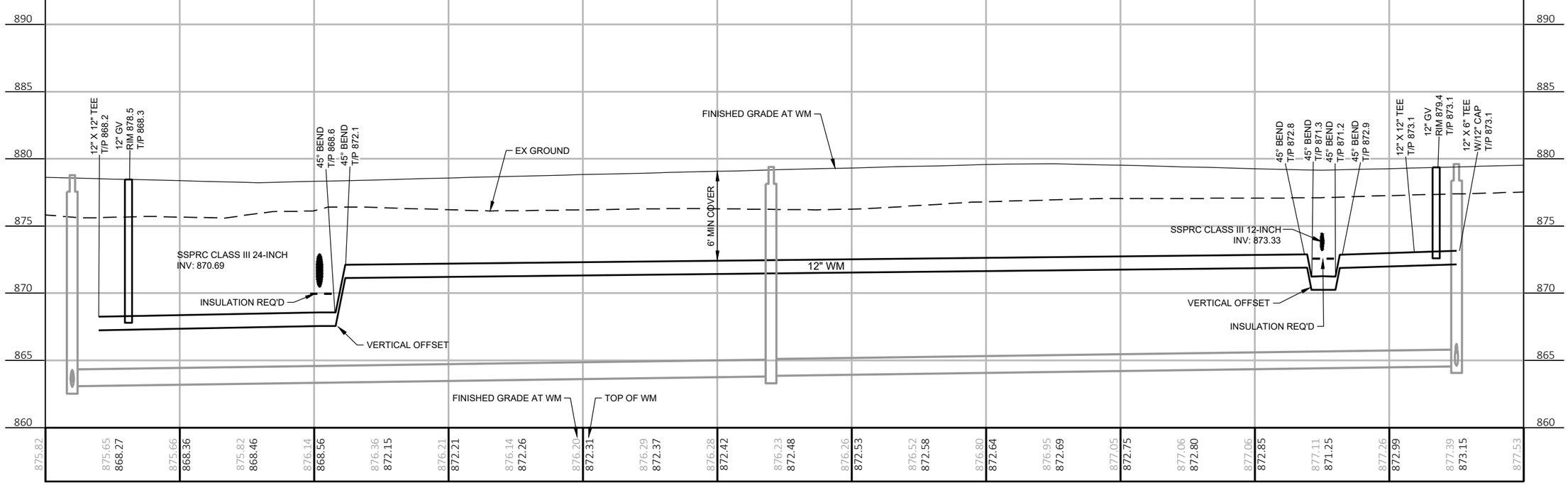
6+17.5, 0.0'
12" GV

6+10.0, 5.5' RT
12" GV

STORM SEWER

2+00 W1
2+00 W2
3+00 W2
12" WM DI
4+00 W2
5+00 W2
6+00 W2
2+00WS1

SAN
GV
T
G
W

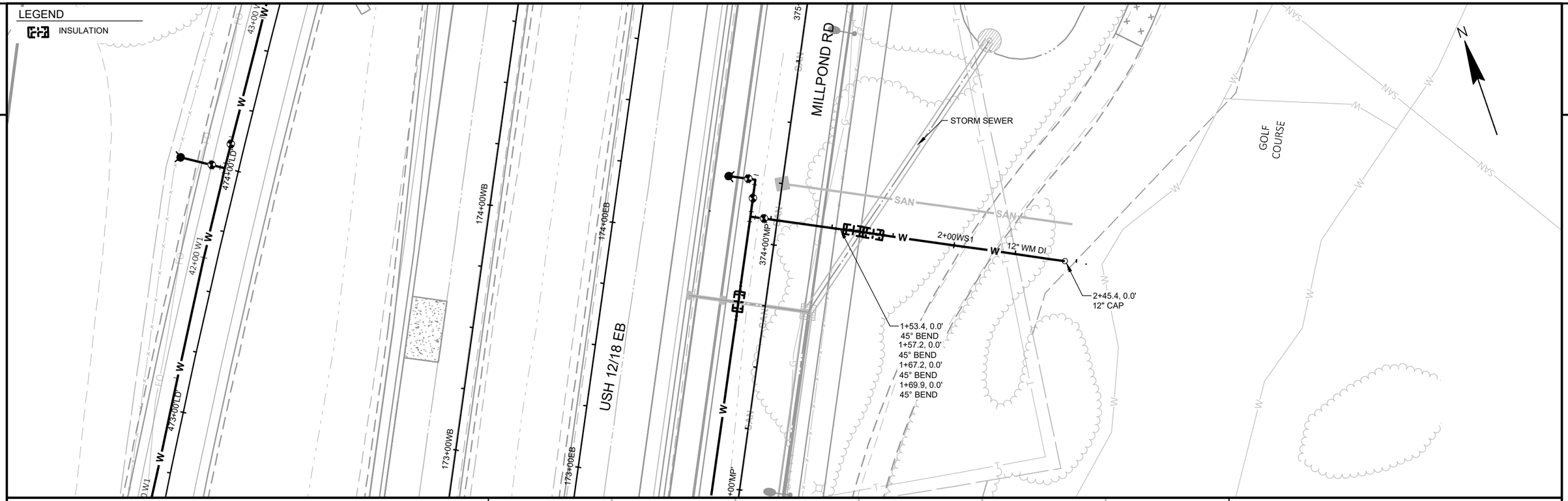


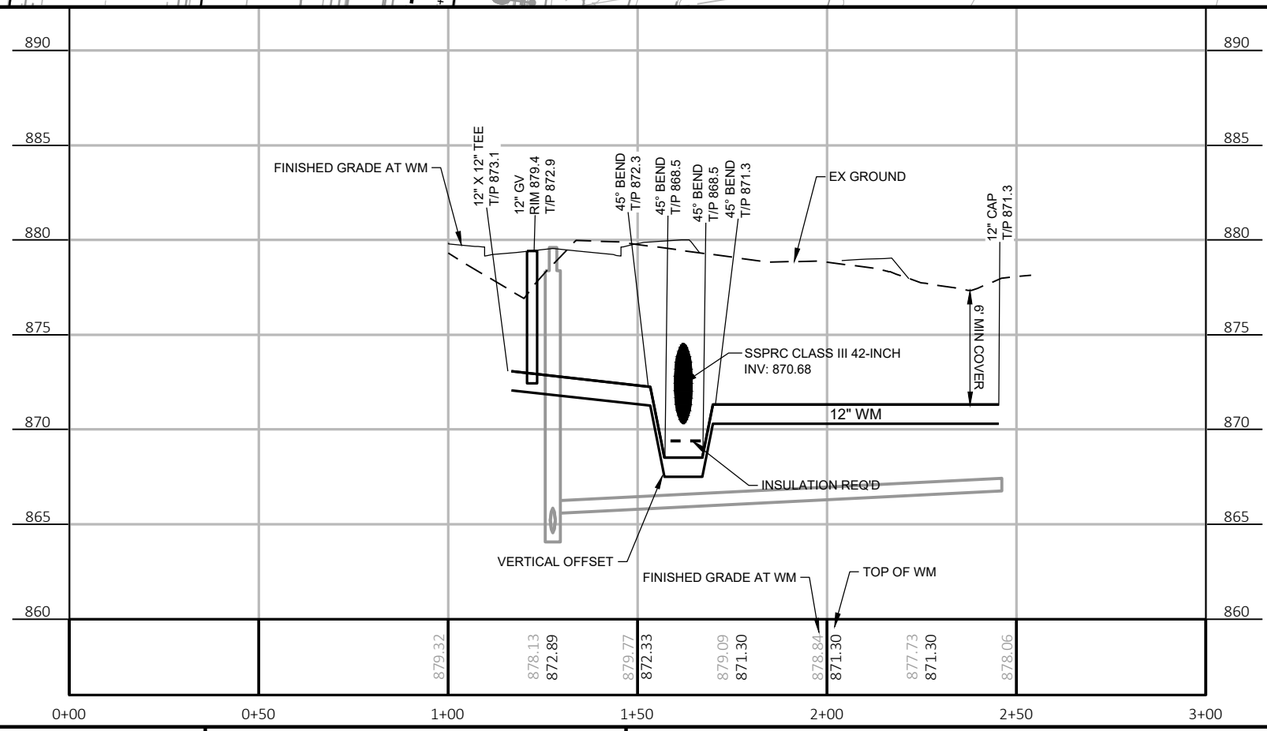
PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	WATER MAIN	SHEET 227	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_023001_UP WATER.DWG
LAYOUT NAME - 13 WM

PLOT DATE : 2/1/2022 12:40 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

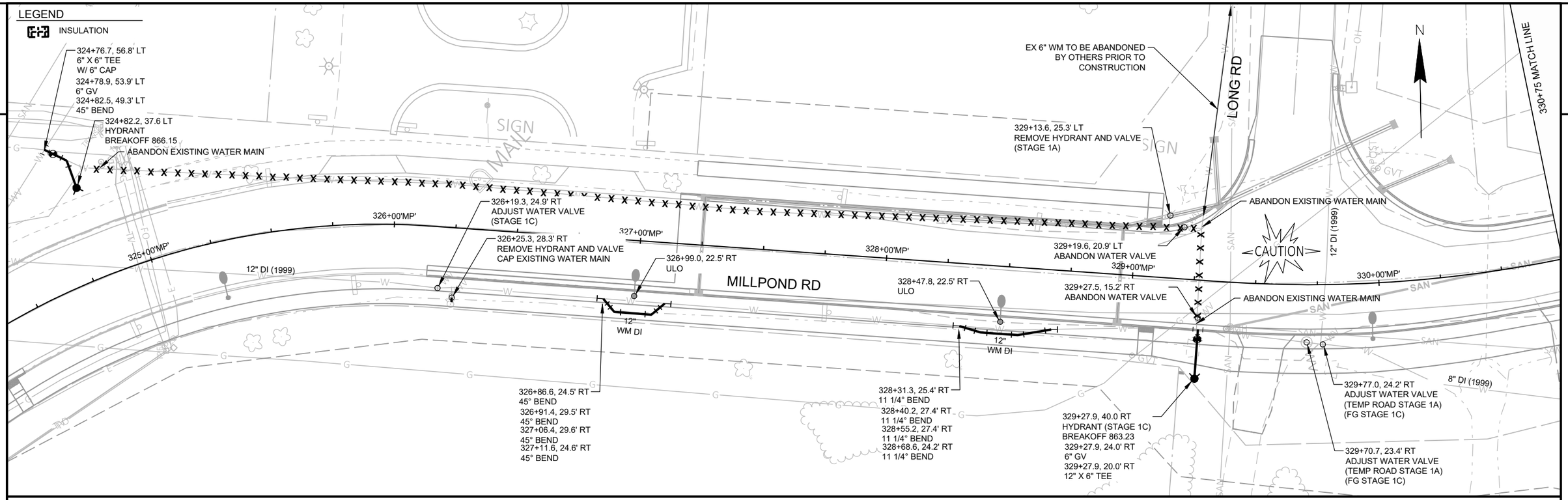




PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	WATER MAIN	SHEET 228	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_023001_UP WATER.DWG
LAYOUT NAME - 14 WM

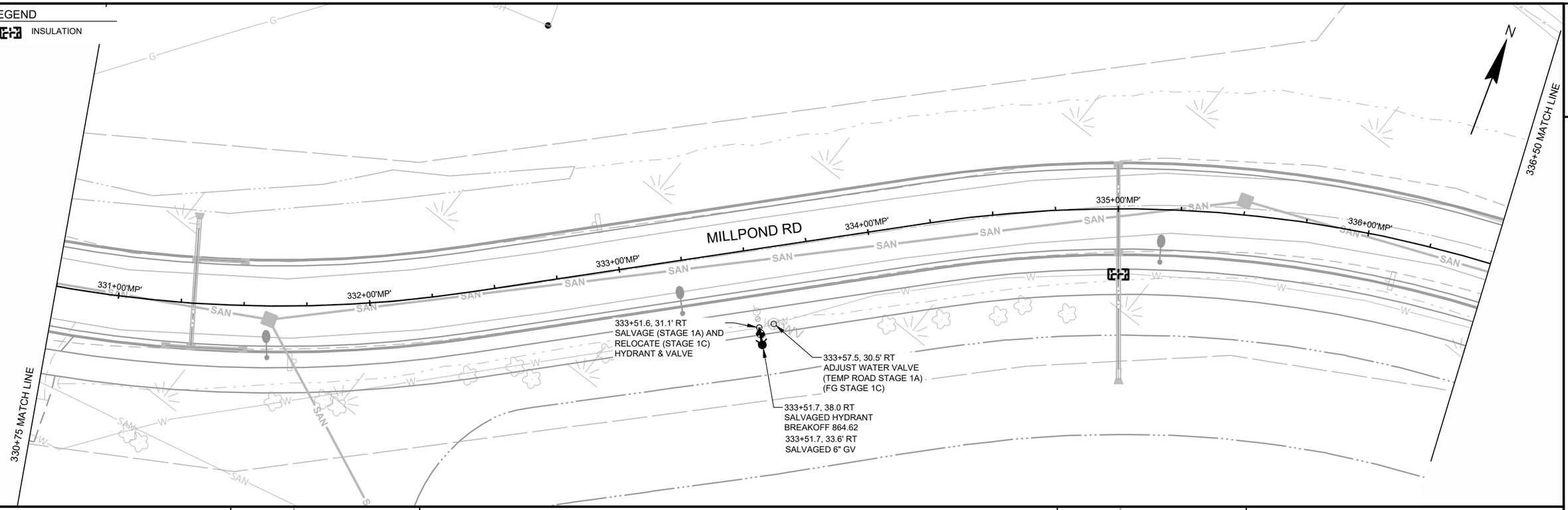
PLOT DATE : 2/1/2022 12:40 PM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:40 FT

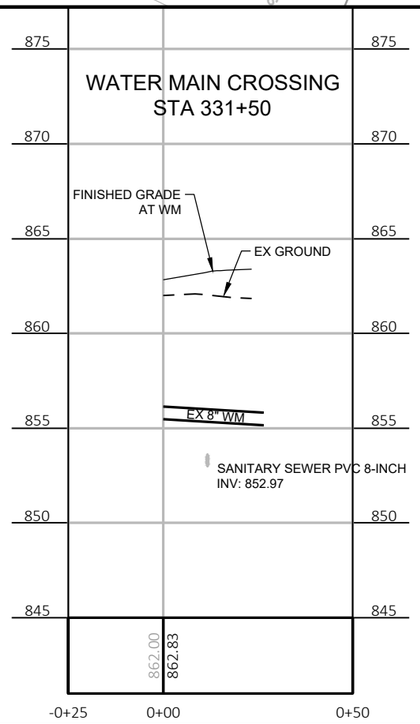


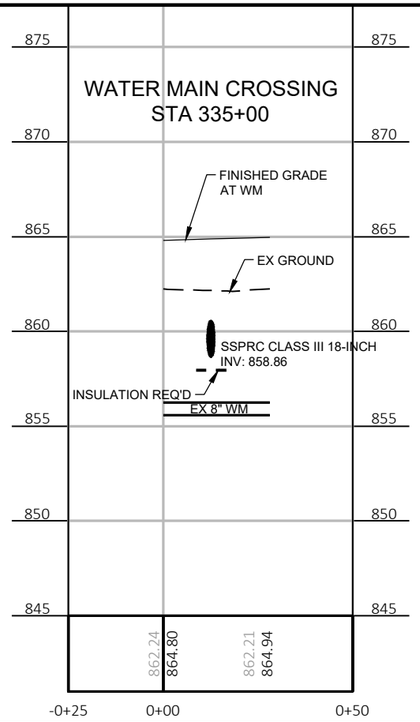
NOTE:
PERFORM ULO TO IDENTIFY LOCATION OF WATER MAIN. REVIEW LOCATION AND LOCATION OF PROPOSED LIGHT BASE. UNDER THE DIRECTION OF THE FIELD ENGINEER AND CITY OF MADISON STAFF, REVIEW THE NEED FOR WATER MAIN RELOCATION

LEGEND

INSULATION



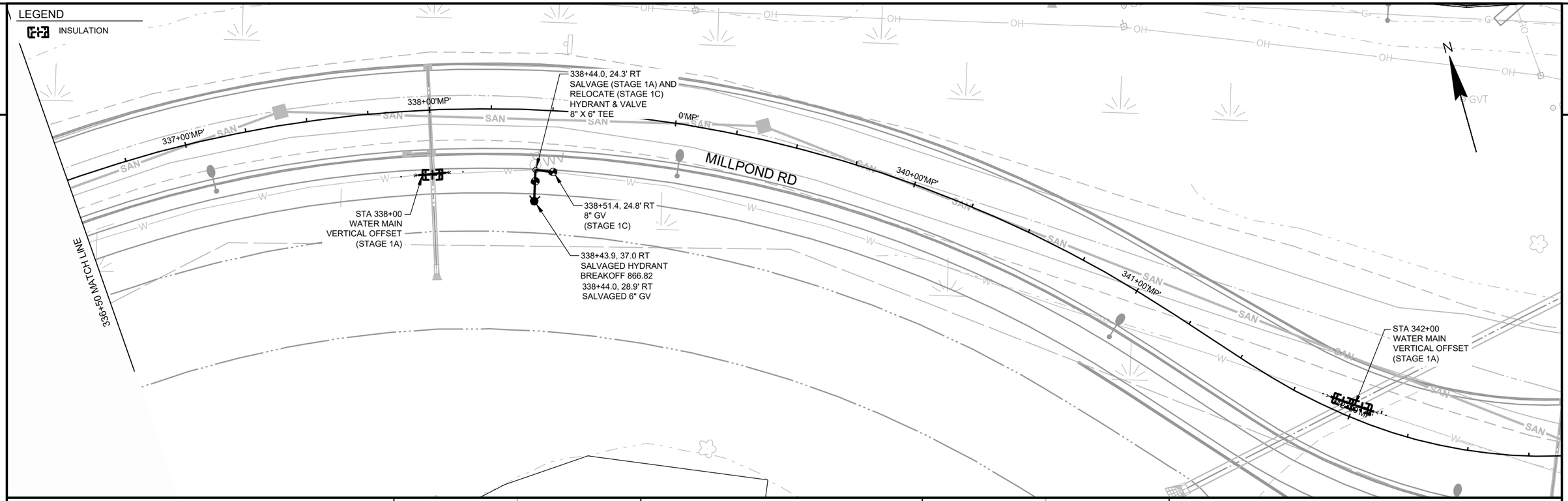


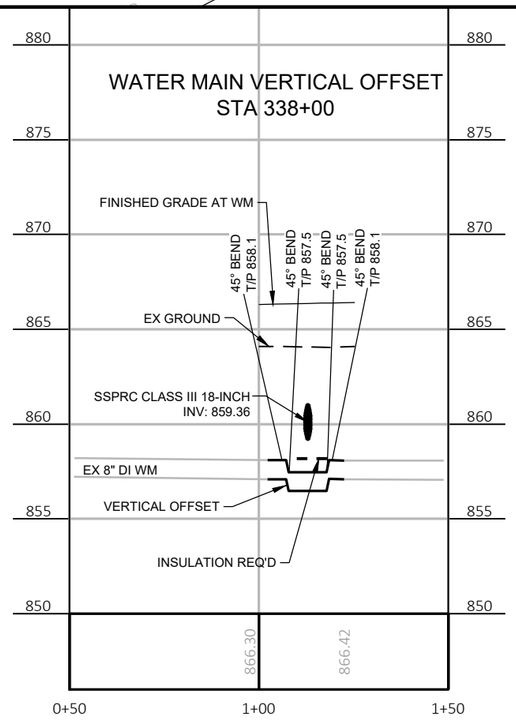


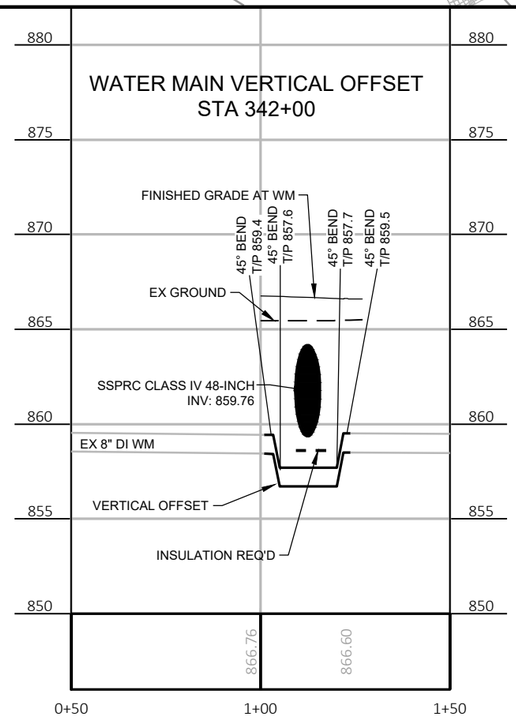
PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	WATER MAIN	SHEET 230	E

LEGEND

INSULATION







PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	WATER MAIN	SHEET 231	E

LEGEND

INSULATION

343+00'MP'

0+25.3, 0.0'
22.5° BEND

0+32.8, 0.0'
22.5° BEND

0+06.7, 0.0'
8" GV

MILLPOND RD

344+00'MP'

343+36.8, 33.5' RT
8" X 8" TEE
CONNECT TO EXISTING
WATER SYSTEM

343+35.4, 48.0 RT
HYDRANT
(STAGE 1)
343+39.3, 41.0' RT
6" GV
343+41.5, 37.3' RT
8" X 8" TEE

343+45.3, 40.7' RT
CONNECT TO EXISTING
WATER SYSTEM

343+46.0, 41.3' RT
ADJUST WATER VALVE

343+45.3, 32.0' RT
REMOVE HYDRANT & VALVE
(STAGE 1A)

1+00 W3

8" WM DI

2+00 W3

345+00'MP'

346+00'MP'

2+47.0, 0.0'
22.5° BEND

2+90.0, 0.0'
8" GV

3+37.5, 0.0'
8" GV

3+00 W3

3+12.3, 0.0'
45° BEND

3+25.0, 0.0'
45° BEND
3+27.8, 0.0'
45° BEND

3+00.2, 19.7 RT
HYDRANT
BREAKOFF 867.92
3+00.0, 4.8' RT
6" GV
3+00.0, 0.0'
8" X 6" TEE

12+58.1, 0.0' RT
12" X 12" TEE

3+42.5, 0.0'
REDUCER

12" WM DI

12+00 W3

12+00 W1

STOP WATER MAIN INSTALLATION
HERE AND NORTHERLY FOR 2022
CONSTRUCTION

13+00 W1

347+00'MP'

14+00 W1

348+00'MP'

INL

USH 12/18 WB

147+00EB

USH 12/18 EB

148+00EB

N

CAUTION

CAUTION

CAUTION

CAUTION

8" X 8" TEE
CONNECT TO EXISTING
WATER SYSTEM
T/P 859.8

8" GV
RIM 866.6
T/P 859.8

22.5° BEND
T/P 859.8

22.5° BEND
T/P 856.5

22 1/2° BEND
T/P 856.5

22 1/2° BEND
T/P 860.2

FINISHED GRADE AT WM

EX GROUND

22.5° BEND
T/P 861.8

6' MIN COVER

8" GV
RIM 867.7
T/P 861.4

8" X 6" TEE
T/P 861.3

45° BEND
T/P 861.1

45° BEND
T/P 861.0

45° BEND
T/P 858.4

8" GV
RIM 867.3
T/P 858.4

REDUCER
T/P 858.4

12" X 12" TEE
T/P 858.4

SSPRC CLASS IV 48-INCH
INV: 861.17

8" WM

6" HIGH PRESSURE GAS
INV: 859.13

SANITARY SEWER

10" HIGH PRESSURE GAS
INV: 858.66

VERTICAL OFFSET

SANITARY SEWER PVC 15-INCH
INV: 855.74

VERTICAL OFFSET

FINISHED GRADE AT WM

TOP OF WM

| | | |

2

2

N

BP: 1+00.00W1
Y = 472118.070
X = 853295.150

PI: 1+27.21W1
Y = 472109.615
X = 853321.016

PI: 1+73.74W1
Y = 472086.731
X = 853361.524

PI: 3+39.88W1
Y = 472035.541
X = 853519.581

PI: 6+11.88W1
Y = 471947.556
X = 853776.955

PI: 9+11.87W1
Y = 471855.039
X = 854062.326

PI: 9+56.82W1
Y = 471841.175
X = 854105.090

PI: 9+70.73W1
Y = 471828.707
X = 854111.251

PI: 10+39.92W1
Y = 471762.895
X = 854089.914

PI: 11+86.91W1
Y = 471623.067
X = 854044.582

PI: 12+58.07W1
Y = 471555.369
X = 854022.658

PI: 12+71.63W1
Y = 471551.624
X = 854035.694

PI: 14+29.43W1
Y = 471568.392
X = 854192.600

Y = 471118.887
X = 856262.423
PI: 37+47.72W1

Y = 471132.627
X = 856290.834
PI: 37+79.10W1

PI: 35+36.99W1
Y = 470918.428
X = 856197.435

PC: 38+46.88W1
Y = 471111.724
X = 856355.109

PRC: 43+37.76W1
Y = 470932.141
X = 856811.628

PT: 46+07.91W1
Y = 470834.945
X = 857063.466

PC: 48+91.39W1
Y = 470731.004
X = 857334.237

PC: 50+38.88W1
Y = 470711.782
X = 857476.400

PI: 51+69.64W1
Y = 470676.404
X = 857602.276

PI: 52+98.99W1
Y = 470646.438
X = 857728.079

Y = 470972.942
X = 857870.314
EP: 57+30.82W1

Y = 470943.819
X = 857870.326
PI: 57+01.70W1

PT: 49+82.12W1
Y = 470726.115
X = 857421.473

PT: 50+84.23W1
Y = 470699.836
X = 857520.147

PI: 52+36.07W1
Y = 470659.595
X = 857666.542

PI: 53+33.83W1
Y = 470650.158
X = 857762.719

PI: 54+12.89W1
Y = 470659.693
X = 857839.326

Y = 470693.749
X = 857889.688
PI: 54+51.63W1

BLDG

INLET
STORM WATER PO

PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	ALIGNMENT DIAGRAM - WATER MAIN	SHEET 233	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027209_AD (WATER).DWG
LAYOUT NAME - 1 WATER MAIN

PLOT DATE : 1/21/2022 9:20 AM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42

2

N

Y = 471299.365
X = 856320.936
EP: 1+87.11WS2

Y = 471141.986
X = 856269.870
PI: 0+21.65WS2

Y = 471122.324
X = 856278.935
BP: 0+00.00WS2

2W2

BP: 1+00.00W2
Y = 470824.561
X = 856178.517

BP: 1+00.00WS1
Y = 470783.134
X = 856668.799

4W2

EP: 6+50.00W2
Y = 470754.944
X = 856701.709

6W2

2WS1

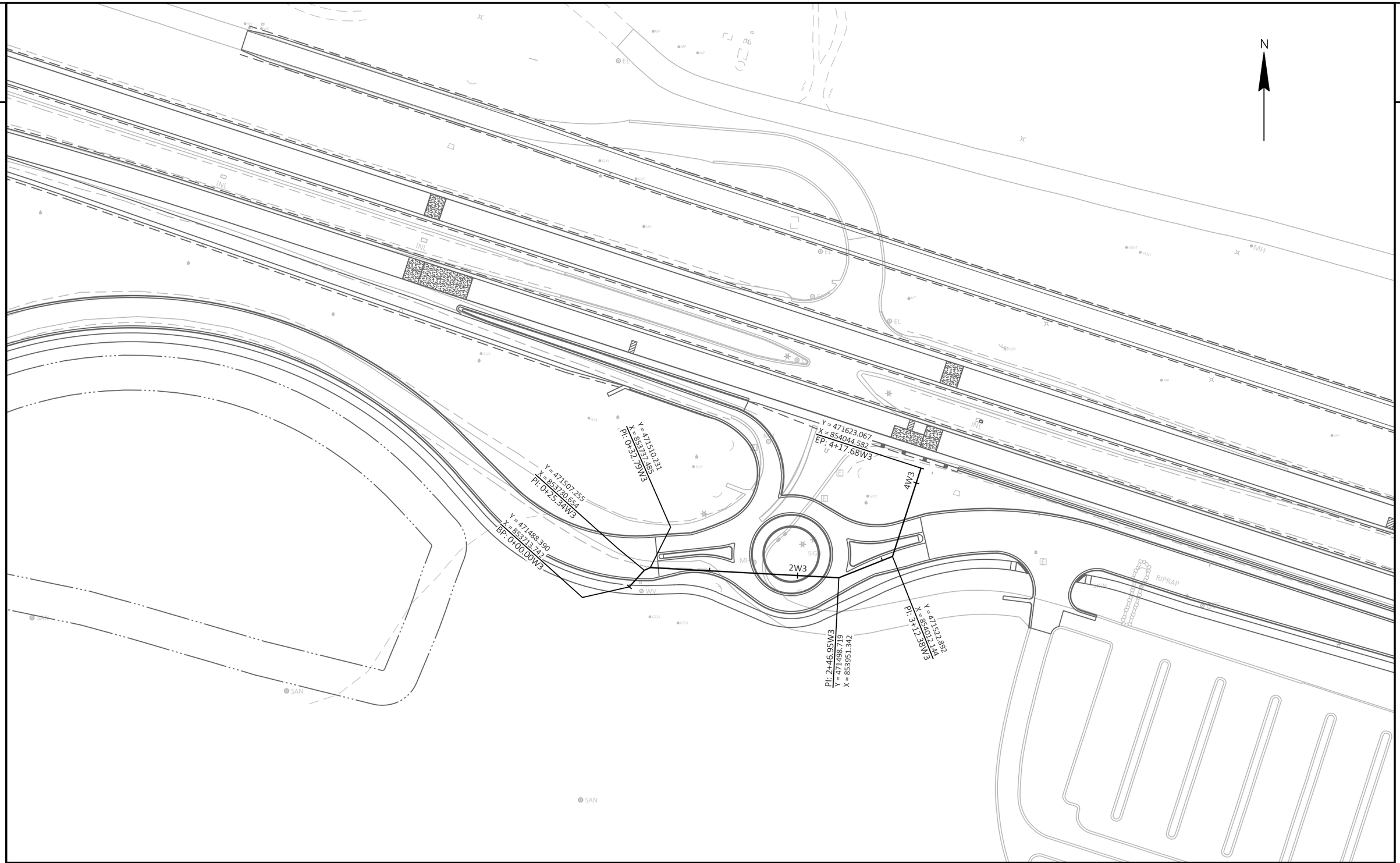
PI: 1+69.92WS1
Y = 470716.621
X = 856647.236

EP: 2+53.90WS1
Y = 470636.799
X = 856621.150

PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	ALIGNMENT DIAGRAM - WATER MAIN	SHEET 234	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027209_AD (WATER).DWG
LAYOUT NAME - 2 WATER MAIN

PLOT DATE : 1/21/2022 9:21 AM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:100 FT



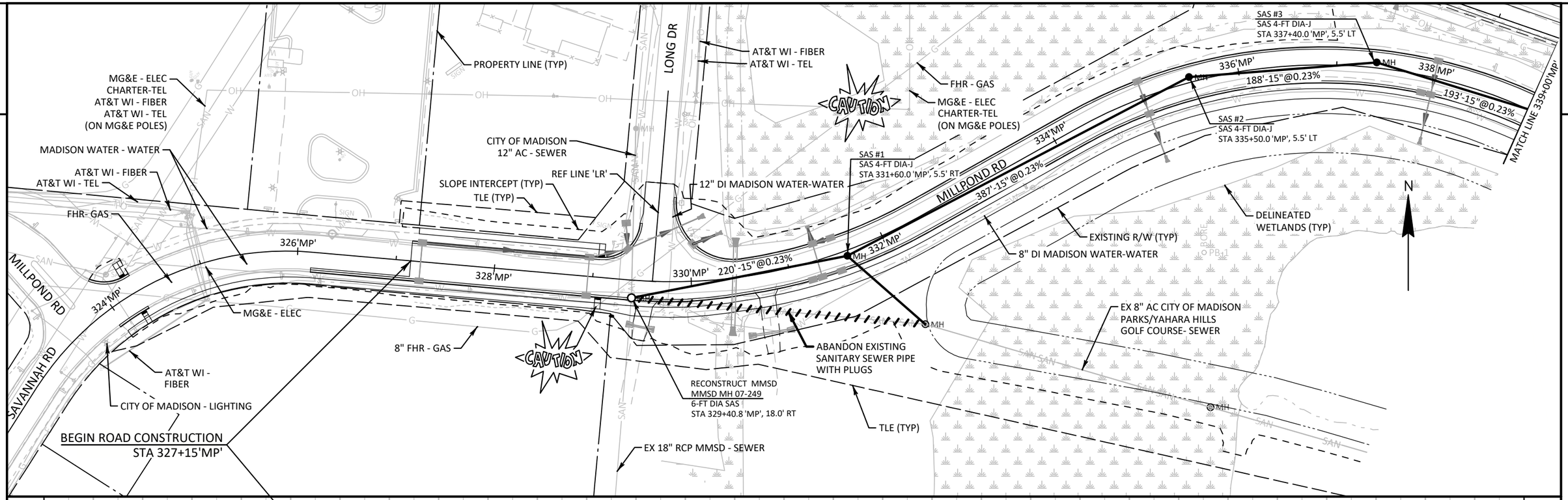
PROJECT NO: 3080-01-40	HWY: USH 12/18	COUNTY: DANE	ALIGNMENT DIAGRAM - WATER MAIN	SHEET 235	E

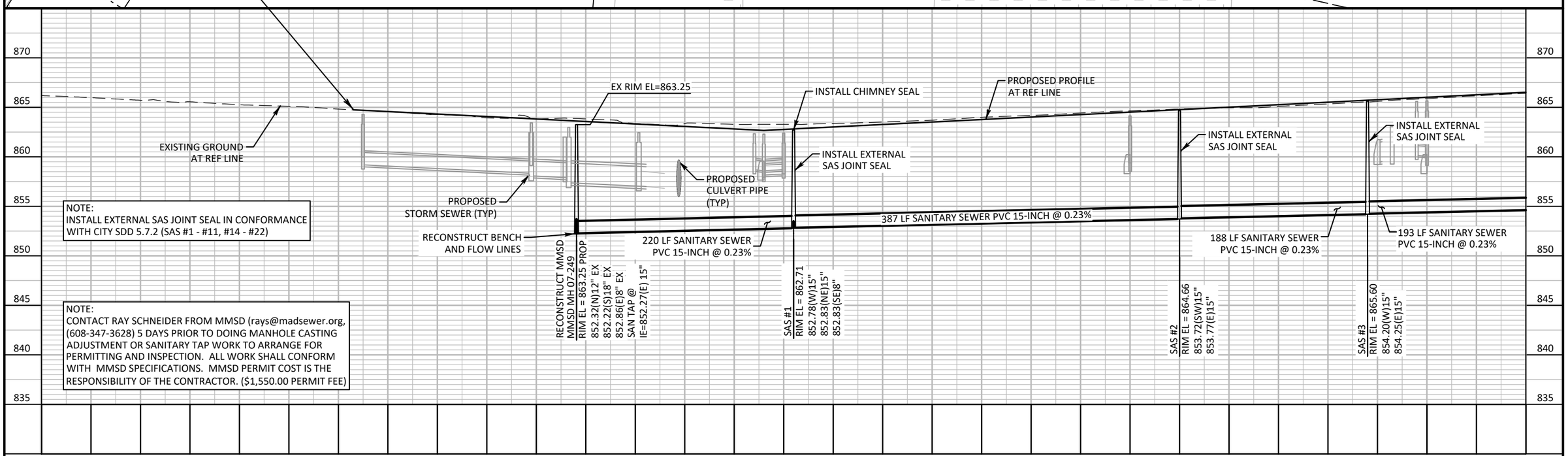
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027209_AD (WATER).DWG
LAYOUT NAME - 3 WATER MAIN

PLOT DATE : 1/21/2022 9:21 AM PLOT BY : AYRES PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2





NOTE:
INSTALL EXTERNAL SAS JOINT SEAL IN CONFORMANCE WITH CITY SDD 5.7.2 (SAS #1 - #11, #14 - #22)

NOTE:
CONTACT RAY SCHNEIDER FROM MMSD (rays@madsewer.org, (608-347-3628) 5 DAYS PRIOR TO DOING MANHOLE CASTING ADJUSTMENT OR SANITARY TAP WORK TO ARRANGE FOR PERMITTING AND INSPECTION. ALL WORK SHALL CONFORM WITH MMSD SPECIFICATIONS. MMSD PERMIT COST IS THE RESPONSIBILITY OF THE CONTRACTOR. ($1,550.00 PERMIT FEE)

PROJECT NO: 3080-01-40	HWY: USH 12	COUNTY: DANE	SANITARY SEWER	SHEET 236	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023000_UP (SANITARY PNP).DWG
PLOT DATE : 5/25/2022 1:36 PM
PLOT BY : SEH
LAYOUT NAME : 01
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

WISDOT ITS - FIBER
CITY OF MADISON ENGINEERING - SEWER
FHR - GAS
USH 12/18 WB
CITY OF MADISON - LIGHTING
FRONTIER - TEL
CITY OF MADISON - LIGHTING
140WB 142WB 144WB 146WB 148WB 150WB 152WB 154
140EB 142EB 144EB 146EB 148EB 150EB 152EB 154
MG&E - GAS
MG&E ELEC
USH 12/18 EB
MUFN - FIBER
FHR-GAS
CITY OF MADISON - LIGHTING
SAS #7
SAS 4-FT DIA-J
STA 348+80.0 'MP', 0.0'
CAUTION
SAS #8
SAS 4-FT DIA-J
STA 353+30.0 'MP', 0.0'
MATCH LINE 354+00'MP'
40'E'
EB EXIT RAMP
42'E'
MB 27
44'E'
MG&E - GAS
348'MP'
MH
MILLPOND RD
350'MP'
447'-15"@0.28%
352'MP'
354
MATCH LINE 339+00'MP'
SAS #4
SAS 4-FT DIA-J
STA 339+35.0 'MP', 5.5' LT
MB 3A
MB 4B
MB 3
348'ME'
267'-15"@0.28%
MG&E - GAS
MG&E - ELEC
SLOPE INTERCEPT (TYP)
MG&E - ELEC
CITY OF MADISON - LIGHTING
346'MP'
346'ME'
340'MP'
MILLPOND RD
398'-15"@0.23%
344'MP'
344'ME'
273'-15"@0.23%
TLE (TYP)
342'MP'
343'ME'
SAS #6
SAS 4-FT DIA-J
STA 346+10.0 'MP', 51.0' RT
PROPOSED R/W (TYP)
GOLF COURSE ACCESS
MUFN - FIBER
MG&E - ELEC
SAS #5
SAS 4-FT DIA-J
STA 343+34.0 'MP', 21.0' RT
ANR PIPELINE CO HIGH PRESSURE 10"
ANR PIPELINE CO HIGH PRESSURE 6"
MADISON WATER - WATER
EXISTING R/W (TYP)

NOTE:
INSTALL EXTERNAL SAS JOINT SEAL IN CONFORMANCE WITH CITY SDD 5.7.2 (SAS #1 - #11, #14 - #22)

INSTALL INTERNAL CHIMNEY SEAL
EXISTING GROUND AT REF LINE
PROPOSED PROFILE AT REF LINE
PROPOSED WATER MAIN C/L PROJECTED TO ROADWAY R/L
PROPOSED STORM SEWER (TYP)
ESTIMATED MINIMUM SEPARATION 2.0'
EXISTING GAS PIPELINE NOTE, CROSSING SHOWN AT SANITARY PIPE C/L
ESTIMATED MINIMUM SEPARATION 2.4'
875 870 865 860 855 850 845 840
PROPOSED CULVERT PIPE (TYP)
857.21
857.14
398 LF SANITARY SEWER PVC 15-INCH @ 0.23%
273 LF SANITARY SEWER PVC 15-INCH @ 0.23%
267 LF SANITARY SEWER PVC 15-INCH @ 0.28%
447 LF SANITARY SEWER PVC 15-INCH @ 0.28%
PROPOSED WATER MAIN CROSSING, ESTIMATED VERTICAL SEPARATION 1.8' (AT SANITARY PIPE C/L)
PROPOSED WATER MAIN C/L PROJECTED TO SANITARY PIPE C/L

SAS #4
RIM EL = 866.58
854.69(W)15"
854.74(SE)15"

SAS #5
RIM EL = 866.16
855.66(NW)15"
855.71(E)15"

SAS #6
RIM EL = 868.36
856.34(W)15"
856.39(E)15"

SAS #7
RIM EL = 869.34
857.14(W)15"
857.19(E)15"

SAS #8
RIM EL = 871.59
858.44(W)15"
858.49(E)15"

340'MP' 342'MP' 344'MP' 346'MP' 348'MP' 350'MP' 352'MP' 354'MP'

PROJECT NO: 3080-01-40	HWY: USH 12	COUNTY: DANE	SANITARY SEWER	SHEET 237	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023000_UP (SANITARY PNP).DWG
PLOT DATE : 3/10/2022 7:57 AM
PLOT BY : SEH
LAYOUT NAME : 02
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

WB 156WB 158WB 160WB USH 12/18 WB 162WB 164WB 166WB 168WB

EB 156EB 158EB 160EB USH 12/18 EB 162EB 164EB 166EB 168EB

@3.05%

MATCH LINE 354+00'MP'

MATCH LINE 369+00'MP'

SAS #9
SAS 4-FT DIA-J
STA 357+30.0 'MP', 0.0'

SAS #10
SAS 4-FT DIA-J
STA 361+30.0 'MP', 0.0'

SAS #11
SAS 4-FT DIA-J
STA 365+30.0 'MP', 0.0'

MH

MP' *397'-15"@0.28% 356'MP' 358'MP' *397'-15"@0.28% 360'MP' MILLPOND RD 362'MP' *397'-15"@0.28% 364'MP' 366'MP' *377'-15"@0.28% 368'MP'

MG&E - GAS

MG&E - ELEC

FRONTIER - TEL

60'MRW' MAINTENANCE RD (WEST) 62'MRW'

PROPOSED R/W (TYP)

SLOPE INTERCEPT (TYP)

SANITARY LATERAL, 8-INCH
ELECTRONIC MARKER REQ'D

365+30.00'MP'
60.00'RT
El=863.17

*60'-8"@1.00%

EXISTING R/W (TYP)

TLE (TYP)

YAHARA HILLS GOLF COURSE -
STORM SEWER, UNKOWN SIZE

YAHARA HILLS -
IRRIGATION (TYP)

N

* NOTE, PIPE SHALL CONFORM
TO ASTM D3034 SDR-26

NOTE:
INSTALL EXTERNAL SAS JOINT SEAL IN CONFORMANCE
WITH CITY SDD 5.7.2 (SAS #1 - #11, #14 - #22)

880 875 870 865 860 855 850 845

PROPOSED PROFILE
AT REF LINE

PROPOSED WATER
MAIN C/L PROJECTED
TO ROADWAY R/L

EXISTING GROUND
AT REF LINE

PROPOSED
STORM SEWER (TYP)

*397 LF SANITARY SEWER PVC 15-INCH @ 0.28%

*397 LF SANITARY SEWER PVC 15-INCH @ 0.28%

*397 LF SANITARY SEWER PVC 15-INCH @ 0.28%

*377 LF SANITARY SEWER PVC 15-INCH @ 0.28%

SAS #9
RIM EL = 873.59
859.60(W)15"
859.65(E)15"

SAS #10
RIM EL = 875.59
860.76(W)15"
860.81(E)15"

SAS #11
RIM EL = 877.59
861.92(W)15"
861.97(E)15"
862.57(S)8"

354'MP' 356'MP' 358'MP' 360'MP' 362'MP' 364'MP' 366'MP' 368'MP'

PROJECT NO: 3080-01-40	HWY: USH 12	COUNTY: DANE	SANITARY SEWER	SHEET 238	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023000_UP (SANITARY PNP).DWG PLOT DATE : 3/10/2022 7:57 AM PLOT BY : SEH LAYOUT NAME : 03 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

MAAHIC WAY

WB ENTRANCE RAMP

USH 12/18 WB

170WB 172WB 174WB 176WB 178WB 180WB 182WB 184WB

*234'-10"@3.05%

*208'-15"@0.28%

USH 12/18 EB

170EB 172EB 174EB 176EB 178EB 180EB 182EB 184EB

MATCH LINE 369+00'MP'

SAS #14
SAS 4-FT DIA-J
STA 369+10.0 'MP', 0.0'

SAS #15
SAS 4-FT DIA-J
STA 371+70.0 'MP', 0.0'

SAS #16
SAS 4-FT DIA-J
STA 374+25.0 'MP', 0.0' LT

SAS #17
SAS 4-FT DIA-J
STA 378+37.0 'MP', 0.0'

SAS #18
SAS 4-FT DIA-J
STA 382+25.0 'MP', 0.0'

684'A'

EB EXIT RAMP

MILLPOND RD

370'MP' 372'MP' 374'MP' 376'MP' 378'MP' 380'MP' 382'MP' 384'MP'

*257'-15"@0.28% *252'-15"@0.28% *409'-15"@0.28% *385'-15"@0.28%

*117'-8"@1.00%

MG&E - GAS

370'MRE' 372'MRE' 374'MRE' 376'MRE' 378'MRE' 380'MRE' 382'MRE'

PROPOSED R/W (TYP)

EXISTING R/W (TYP)

374+25.00'MP'
117.00'RT
El=866.75

TLE (TYP)

SPILLWAY

FRONTIER - TEL

SANITARY LATERAL, 8-INCH
ELECTRONIC MARKER REQ'D

MAINTENANCE RD (EAST)

DELINEATED
WETLANDS (TYP)

SLOPE INTERCEPT (TYP)

TLE (TYP)

PROPOSED POND "B" LIMITS

YAHARA HILLS -
IRRIGATION (TYP)

PB-17 PB-15 PB-16 PB-14 PB-13 PB-12 PB-3 PB-4 PB-5 MW-3 MW-5 RG-210

* NOTE, PIPE SHALL CONFORM
TO ASTM D3034 SDR-26

INSTALL INTERNAL
CHIMNEY SEAL

PROPOSED
STORM SEWER (TYP)

PROPOSED WATER
MAIN C/L PROJECTED
TO ROADWAY R/L

INSTALL INTERNAL
CHIMNEY SEAL

PROPOSED PROFILE
AT REF LINE

EXISTING GROUND
AT REF LINE

*257 LF SANITARY SEWER PVC 15-INCH @ 0.28%

*252 LF SANITARY SEWER
PVC 15-INCH @ 0.28%

*409 LF SANITARY SEWER PVC 15-INCH @ 0.28%

*385 LF SANITARY SEWER PVC 15-INCH @ 0.28%

880 875 870 865 860 855 850 845

SAS #14
RIM EL = 878.79
863.03(W)15"
863.08(E)15"
863.44(N)10"

SAS #15
RIM EL = 879.39
863.80(W)15"
863.85(E)15"

SAS #16
RIM EL = 879.62
864.56(W)15"
864.61(E)15"
865.56(S)8"

SAS #17
RIM EL = 880.59
865.76(W)15"
865.81(E)15"

SAS #18
RIM EL = 881.68
866.89(W)15"
866.99(N)15"
866.99(E)10" (CORE AND CAP)

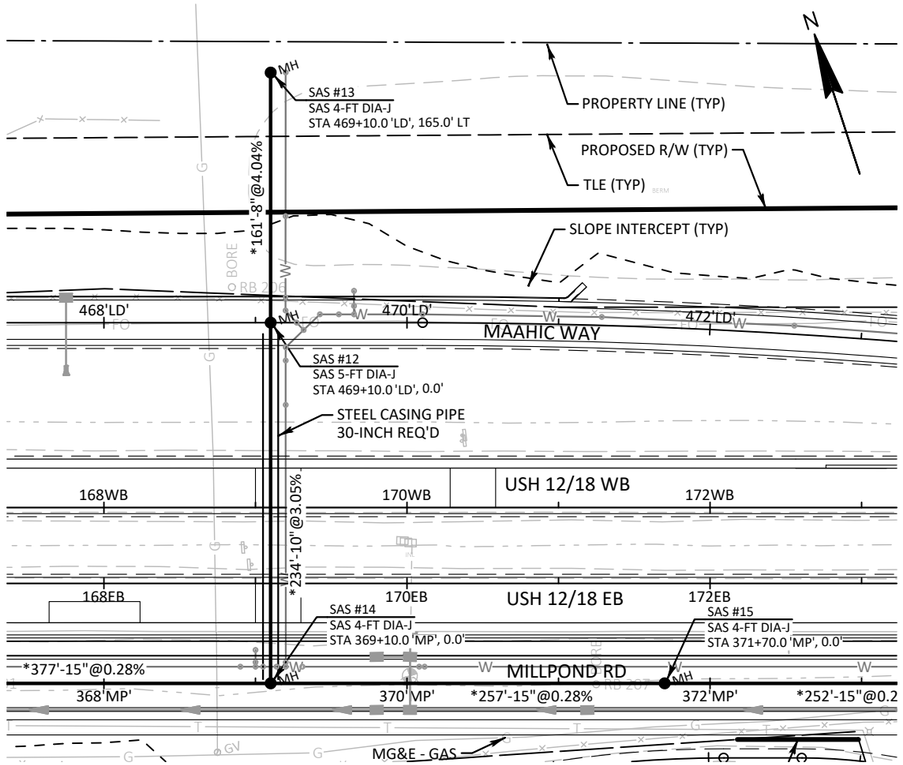
NOTE:
INSTALL EXTERNAL SAS JOINT SEAL IN CONFORMANCE
WITH CITY SDD 5.7.2 (SAS #1 - #11, #14 - #22)

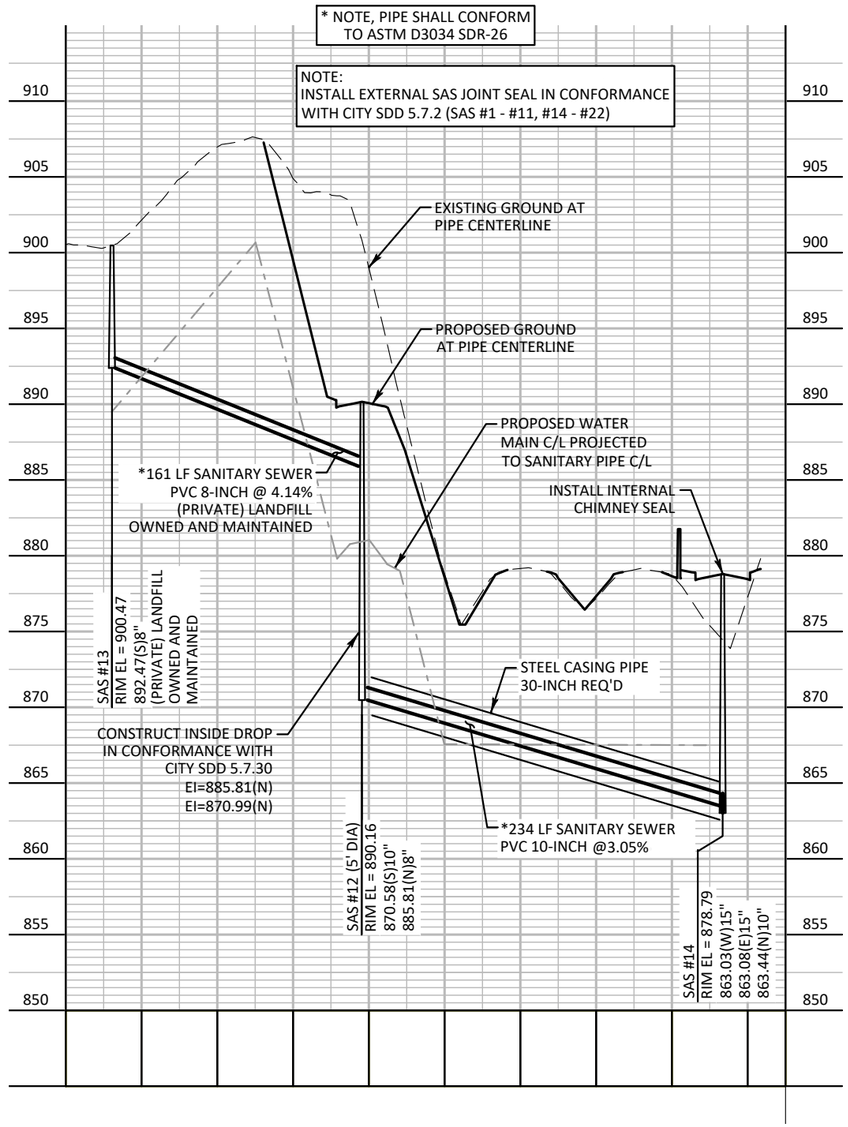
370'MP' 372'MP' 374'MP' 376'MP' 378'MP' 380'MP' 382'MP' 384'MP'

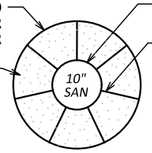
PROJECT NO: 3080-01-40	HWY: USH 12	COUNTY: DANE	SANITARY SEWER	SHEET 239	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023000_UP (SANITARY PNP).DWG PLOT DATE : 3/10/2022 7:57 AM PLOT BY : SEH LAYOUT NAME : 04 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42







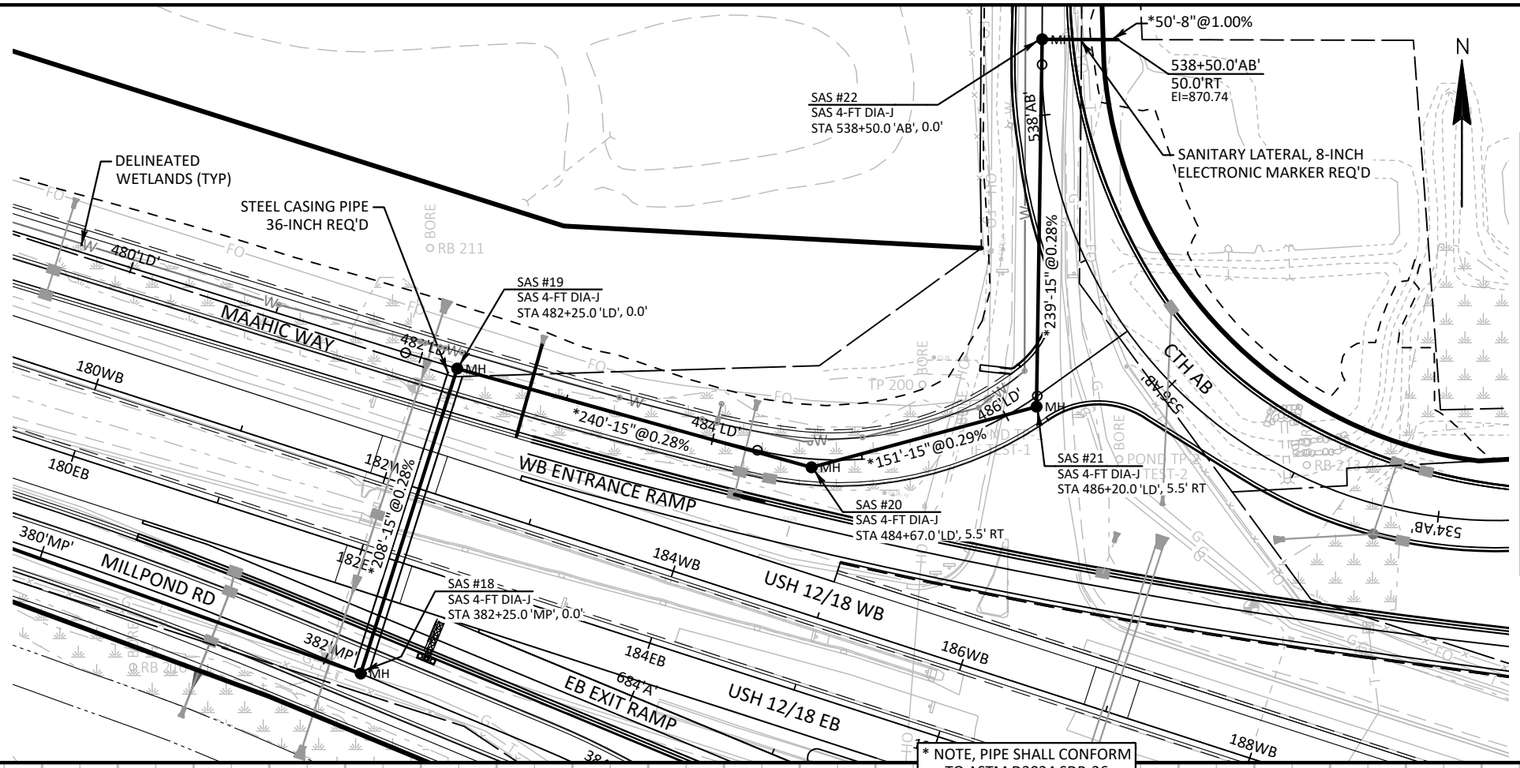
NOTE:

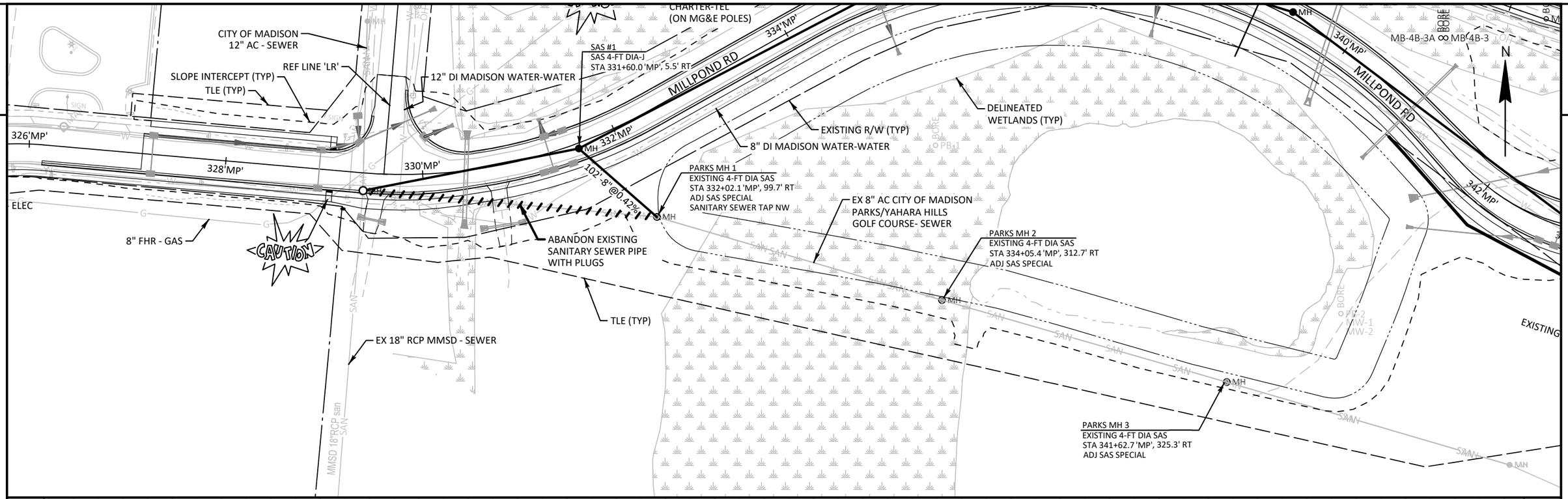
WALL THICKNESS FOR STEEL CASING PIPE WITH 35,000 P.S.I. MIN. YIELD STRENGTH. FOR MATERIAL OF LOWER YIELD STRENGTH, INCREASE THICKNESS AN ADDITIONAL $\frac{1}{16}$".

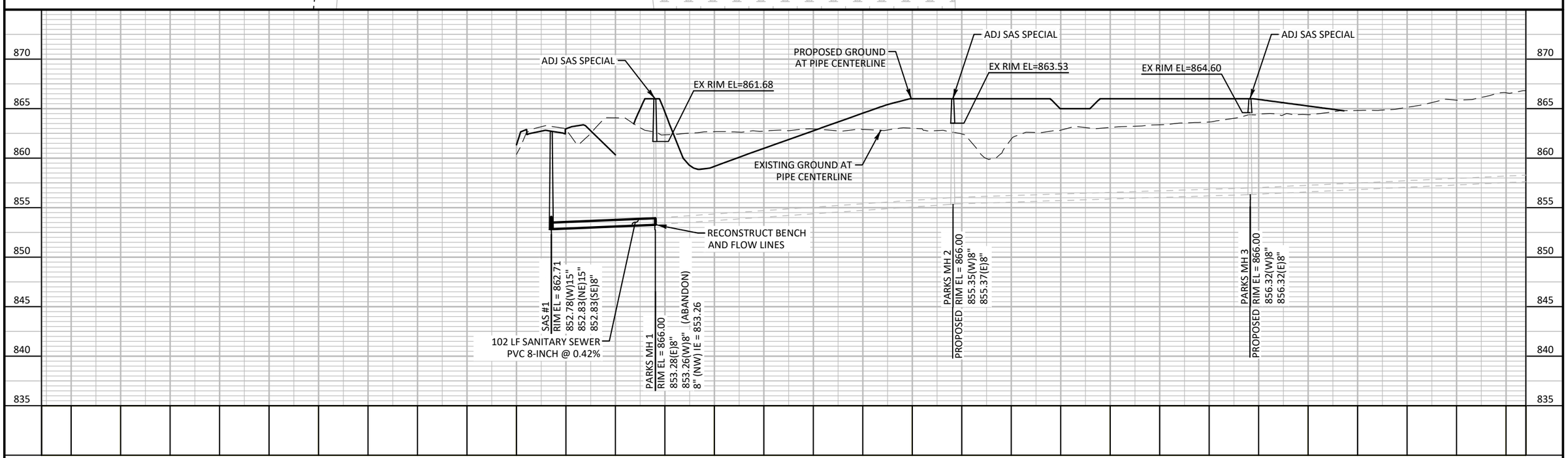
STEEL CASING PIPE FOR E80 LOADING	
MIN. THK. (IN.) FOR PIPE NOT CATHODICALLY PROTECTED	CASING PIPE DIAMETER (IN.)
0.3750	18 - 22
0.4375	22 - 25
0.5000	25 - 34
0.5625	34 - 42
0.6250	42 - 48

CASING PIPE DETAIL
NOT TO SCALE

PROJECT NO: 3080-01-40	HWY: USH 12	COUNTY: DANE	SANITARY SEWER	SHEET 240	E


DELINEATED WETLANDS (TYP)
STEEL CASING PIPE 36-INCH REQ'D
SAS #22
SAS 4-FT DIA-J
STA 538+50.0 'AB', 0.0'
*50'-8"@1.00%
538+50.0'AB'
50.0'RT
EI=870.74
SANITARY LATERAL, 8-INCH ELECTRONIC MARKER REQ'D
538'AB'
*239'-15"@0.28%
SAS #19
SAS 4-FT DIA-J
STA 482+25.0 'LD', 0.0'
480'LD'
MAAHIC WAY
482'LD'
180WB
180EB
182WB
182EB
*208'-15"@0.28%
380'MP'
MILLPOND RD
382'MP'
SAS #18
SAS 4-FT DIA-J
STA 382+25.0 'MP', 0.0'
*240'-15"@0.28%
484'LD'
WB ENTRANCE RAMP
*151'-15"@0.29%
486'LD'
SAS #20
SAS 4-FT DIA-J
STA 484+67.0 'LD', 5.5' RT
SAS #21
SAS 4-FT DIA-J
STA 486+20.0 'LD', 5.5' RT
CTH AB
534'AB'
184WB
USH 12/18 WB
186WB
184EB
684'A'
EB EXIT RAMP
USH 12/18 EB
188WB
RB 211
RB 212
RB 213
RB 214
RB 215
RB 216
RB 217
RB 218
RB 219
RB 220
RB 221
RB 222
RB 223
RB 224
RB 225
RB 226
RB 227
RB 228
RB 229
RB 230
RB





PROJECT NO: 3080-01- 40	HWY: USH 12	COUNTY: DANE	SANITARY SEWER	SHEET 242	E

2

PERMANENT SIGNING REMOVAL LEGEND

- EXISTING SIGN MOUNTED ON WOOD POST(S)
- EXISTING TYPE I SIGN MOUNTED ON STRUCTURAL STEEL SIGN SUPPORTS
- RBC — DENOTES SIGN REMOVAL BY THE CITY OF MADISON
- x00-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS

N

WB TO NB EXIT RAMP
IH 39/90 SB
IH 39/90 NB
NB TO WB ENTRANCE RAMP
EB TO NB EXIT RAMP
NB TO EB ENT RAMP
MILLPOND RD
SAVANNAH RD
EB TO SB EXIT RAMP
IH 39/90 NB
IH 39/90 SB
LONG DR
LONG DR
01
LANDFILL DR
02
USH 12/18 WB
USH 12/18 EB
03
04
CTH AB
09b
LUDS LN
05
06
07
08
DOOR CREEK
FEMRITE DR
ROTHAMER RD
USH 12/18 WB
USH 12/18 EB
SIGGELKOW RD
09t
790
887.619
WELL
CTH AB

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	INDEX OF SHEETS - SIGN REMOVAL PLAN	PAGE 00 OF 10	SHEET 243	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023200-PS (01 SIGN REMOVAL - INDEX OF SHEETS).DWG PLOT DATE : 1/13/2022 3:25 PM PLOT BY : SEH LAYOUT NAME : 00 PLOT SCALE : 1.0 IN = 1000.0 FT
WISDOT/CADDS SHEET 42

2

LONG DR

112'XL'

EXIT 267 A-B
39 90
Wis Dells
Chicago
⅓ MILE

ALTERNATE INTERSTATE 94

EXISTING SIGNS TO REMAIN

N

USH 12/18 WB

EAST 12 MILE 268 .2

MOVE EXISTING SIGN
(SEE PERMANENT
SIGNING PLAN)

USH 12/18 EB

124'EB' 126'EB' 128'EB' 130'EB' 132'EB' 134'EB' 136'EB' 138'EB'

139+00'EB'

92'XMP'

90'XMP'

88'XMP'

86'XMP'

84'XMP'

82'XMP'

80'XMP'

78'XMP'

REMOVE EXISTING SIGN
POST (NO SIGN)

R01-01

EAST 12 | EAST 18 | ALTERNATE INTERSTATE 39 | ALTERNATE INTERSTATE 90

REMOVE

R01-02
R01-03

SPEED LIMIT 55

REMOVE

R01-04

Long Dr
Millpond Rd

REMOVE

W01-01

GAMERS GRILLE .7
⅛ MI BEST VALUE INN
MAGNUSON GRAND HOTEL ¼ MI

REMOVE

EAST 12 MILE 268 .4

WEST 12 MILE 268 .4

MOVE EXISTING SIGN
(SEE PERMANENT
SIGNING PLAN)

R01-05

BEGIN RIGHT TURN LANE

REMOVE

R01-06

REMOVE

NO PARKING ANY TIME

RBC

LONG DR

Long Dr

Millpond Rd

MILLPOND RD

STOP

SPEED LIMIT 25

SPEED LIMIT 35

EXISTING SIGN
TO REMAIN

PERMANENT SIGNING REMOVAL LEGEND

- EXISTING SIGN MOUNTED ON WOOD POST(S)
- EXISTING TYPE I SIGN MOUNTED ON STRUCTURAL STEEL SIGN SUPPORTS
- RBC — DENOTES SIGN REMOVAL BY THE CITY OF MADISON
- x00-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING REMOVAL PLAN	PAGE 01 OF 09	SHEET 244	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023201-PS (PERM SGN - REMOVAL PLAN).DWG PLOT DATE : 1/13/2022 3:26 PM PLOT BY : SEH LAYOUT NAME : 01 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

2

N

LANDFILL DR

LONG DR

MILLPOND RD

USH 12/18 WB

USH 12/18 EB

139+00'EB'

140'EB'

142'EB'

144'EB'

146'EB'

148'EB'

150'EB'

152'EB'

154+00'EB'

104'XL'

106'XL'

102'XL'

108'XL'

94'XMP'

96'XMP'

98'XMP'

RIPRAP

GOLF COURSE

REMOVE R02-01 — WRONG WAY

REMOVE R02-02 — LEFT LANE ENDS

MOVE EXISTING SIGN (SEE PERMANENT SIGNING PLAN) — WEST 12 MILE 268 .6

REMOVE R02-03 — DO NOT ENTER

REMOVE R02-04 R02-05 R02-06

REMOVE R02-07 — DO NOT ENTER

REMOVE R02-08 — WRONG WAY

REMOVE R02-09 — Cambridge 13

REMOVE R02-10 — Landfill Dr

REMOVE R02-11 — Millpond Rd / Long Dr

REMOVE R02-12 R02-13 — PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED BEYOND NEXT INTERSECTION

MOVE EXISTING SIGN (SEE PERMANENT SIGNING PLAN) — WEST 12 MILE 268 .8

REMOVE R02-14 — NO OUTLET

REMOVE R02-15

REMOVE R02-16 — STOP

REMOVE R02-17 — ONE WAY

REMOVE R02-18

REMOVE R02-19 R02-20 R02-21 — ONE WAY / STOP / DIVIDED HIGHWAY

REMOVE R02-22 — ONE WAY

REMOVE R02-23 — STOP

REMOVE R02-24 — NO OUTLET

REMOVE R02-25 R02-26 R02-27 — STOP / DIVIDED HIGHWAY

REMOVE R02-28 — ONE WAY

MOVE EXISTING SIGN (SEE PERMANENT SIGNING PLAN) — EAST 12 MILE 268 .6

MOVE EXISTING SIGN (SEE PERMANENT SIGNING PLAN) — EAST 12 MILE 268 .8

SPEED LIMIT 35

RBC

PERMANENT SIGNING REMOVAL LEGEND

- EXISTING SIGN MOUNTED ON WOOD POST(S)
- EXISTING TYPE I SIGN MOUNTED ON STRUCTURAL STEEL SIGN SUPPORTS
- RBC — DENOTES SIGN REMOVAL BY THE CITY OF MADISON
- x00-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING REMOVAL PLAN	PAGE 02 OF 09	SHEET 245	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023201-PS (PERM SGN - REMOVAL PLAN).DWG PLOT DATE : 1/13/2022 3:26 PM PLOT BY : SEH LAYOUT NAME : 02 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

N

GAMERS GRILLE .7
MAGNUSON GRAND HOTEL 1/4 MI
BEST VALUE INN 1/8 MI

REMOVE
W03-01

WEST 12 MILE 269 0

MOVE EXISTING SIGN
(SEE PERMANENT
SIGNING PLAN)

ONE WAY
STOP
DIVIDED HIGHWAY

REMOVE
R03-05
R03-06
R03-07

LANDFILL DR

POST
COUNTER

USH 12/18 WB

USH 12/18 EB

154+00'EB'
156'EB'
158'EB'
160'EB'
162'EB'
164'EB'
166'EB'
168'EB'
169+00'EB'

R03-01
ONE WAY
REMOVE

R03-02
REMOVE

MOVE EXISTING SIGN
(SEE PERMANENT
SIGNING PLAN)

EAST 12 MILE 269 0

MOVE EXISTING SIGN
(SEE PERMANENT
SIGNING PLAN)

EAST 12 MILE 269 .2

R03-03
R03-04
JCT COUNTY AB
REMOVE

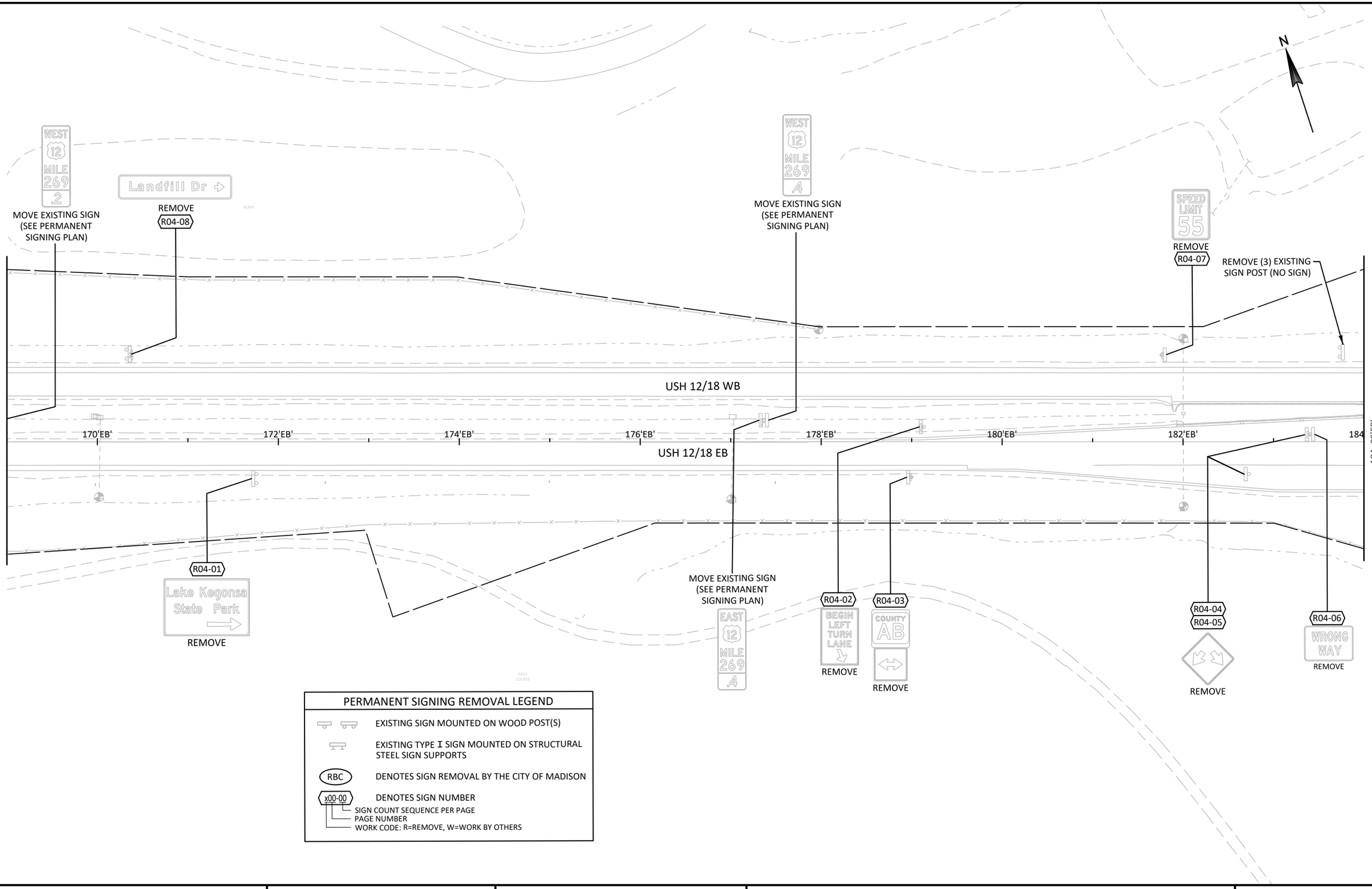
PERMANENT SIGNING REMOVAL LEGEND

- EXISTING SIGN MOUNTED ON WOOD POST(S)
- EXISTING TYPE I SIGN MOUNTED ON STRUCTURAL STEEL SIGN SUPPORTS
- RBC — DENOTES SIGN REMOVAL BY THE CITY OF MADISON
- x00-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING REMOVAL PLAN	PAGE 03 OF 09	SHEET 246	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023201-PS (PERM SGN - REMOVAL PLAN).DWG PLOT DATE : 1/13/2022 3:26 PM PLOT BY : SEH LAYOUT NAME : 03 PLOT SCALE : 1.0 IN = 100.0 FT

2



PERMANENT SIGNING REMOVAL LEGEND

- EXISTING SIGN MOUNTED ON WOOD POST(S)
- EXISTING TYPE I SIGN MOUNTED ON STRUCTURAL STEEL SIGN SUPPORTS
- RBC — DENOTES SIGN REMOVAL BY THE CITY OF MADISON
- x00-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING REMOVAL PLAN	PAGE 04 OF 09	SHEET 247	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023201-PS (PERM SGN - REMOVAL PLAN).DWG PLOT DATE : 1/13/2022 3:26 PM PLOT BY : SEH LAYOUT NAME : 04 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

MATCH LINE 24+80'XAB' (SEE PAGE 09 OF 09)

CTH AB

24'XAB'

22'XAB'

20'XAB'

18'XAB'

16'XAB'

REMOVE R05-27

REMOVE R05-26

REMOVE R05-24 R05-25

REMOVE R05-14

REMOVE R05-28

REMOVE R05-30

REMOVE R05-06

REMOVE R05-13

REMOVE R05-12

REMOVE R05-07

MOVE EXISTING SIGN (SEE PERMANENT SIGNING PLAN)

REMOVE R05-11

MOVE EXISTING SIGN (SEE PERMANENT SIGNING PLAN)

REMOVE R05-29

USH 12/18 WB

USH 12/18 EB

184+00'EB'

186'EB'

188'EB'

190'EB'

192'EB'

194'EB'

196'EB'

198'EB'

199+00'EB'

R05-08

REMOVE

R05-05

REMOVE

R05-09

REMOVE

R05-10

REMOVE

MOVE EXISTING SIGN (SEE PERMANENT SIGNING PLAN)

MOVE EXISTING SIGN (SEE PERMANENT SIGNING PLAN)

R05-01 R05-02

REMOVE

R05-03 R05-04

REMOVE

R05-22

REMOVE

R05-23

REMOVE

R05-18 R05-19

REMOVE

R05-15 R05-16 R05-17

R05-20

REMOVE

R05-21

REMOVE

MATCH LINE 15+00'XAB' (SEE PAGE 09 OF 09)

PERMANENT SIGNING REMOVAL LEGEND

- EXISTING SIGN MOUNTED ON WOOD POST(S)
- EXISTING TYPE I SIGN MOUNTED ON STRUCTURAL STEEL SIGN SUPPORTS
- RBC — DENOTES SIGN REMOVAL BY THE CITY OF MADISON
- x00-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING REMOVAL PLAN	PAGE 05 OF 09	SHEET 248	E

2

N

INLET

SS

TILE

199+00'EB'

214+00'EB'

200'EB'

202'EB'

204'EB'

206'EB'

208'EB'

210'EB'

212'EB'

214

ONE WAY

REMOVE

R06-07

R06-08

WEST 12 MILE 270 0

MOVE EXISTING SIGN (SEE PERMANENT SIGNING PLAN)

JCT COUNTY AB

REMOVE

R06-05

R06-06

WEST 12 MILE 270 .2

MOVE EXISTING SIGN (SEE PERMANENT SIGNING PLAN)

R06-01

R06-02

REMOVE

R06-03

DO NOT ENTER

REMOVE

MOVE EXISTING SIGN (SEE PERMANENT SIGNING PLAN)

EAST 12 MILE 270 0

R06-04

WRONG WAY

REMOVE

MOVE EXISTING SIGN (SEE PERMANENT SIGNING PLAN)

EAST 12 MILE 270 .2

PERMANENT SIGNING REMOVAL LEGEND

- EXISTING SIGN MOUNTED ON WOOD POST(S)
- EXISTING TYPE I SIGN MOUNTED ON STRUCTURAL STEEL SIGN SUPPORTS
- RBC — DENOTES SIGN REMOVAL BY THE CITY OF MADISON
- x00-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING REMOVAL PLAN	PAGE 06 OF 09	SHEET 249	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023201-PS (PERM SGN - REMOVAL PLAN).DWG PLOT DATE : 1/13/2022 3:26 PM PLOT BY : SEH LAYOUT NAME : 06 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

2

N

WEST 12 MILE 270 .4

R07-04

WEST 12 MILE 270 .6

R07-03

214+00'EB'

'EB'

216'EB'

218'EB'

220'EB'

222'EB'

224'EB'

226'EB'

228'EB'

229+00'EB'

R07-01

EAST 12 MILE 270 .4

R07-02

SIGN

FLAG

EAST 12 MILE 270 .6

PERMANENT SIGNING REMOVAL LEGEND

	EXISTING SIGN MOUNTED ON WOOD POST(S)
	EXISTING TYPE I SIGN MOUNTED ON STRUCTURAL STEEL SIGN SUPPORTS
RBC	DENOTES SIGN REMOVAL BY THE CITY OF MADISON
x00-00	DENOTES SIGN NUMBER SIGN COUNT SEQUENCE PER PAGE PAGE NUMBER WORK CODE: R=REMOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING REMOVAL PLAN	PAGE 07 OF 09	SHEET 250 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023201-PS (PERM SGN - REMOVAL PLAN).DWG PLOT DATE : 1/13/2022 3:26 PM PLOT BY : SEH LAYOUT NAME : 07 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

2

N

WEST
12
MILE
270
.8

R08-03

ROAD TO
Lake Kegonsa
State Park
1 MILE

R08-02

230'EB'

229+00'EB'

EXISTING SIGN
TO REMAIN

EXISTING SIGN
TO REMAIN

WRONG
WAY

R08-01

EAST
12
MILE
270
.8

Femrite Dr

Siggelkow Rd

SIGGELKOW RD

POST

POST

PERMANENT SIGNING REMOVAL LEGEND

- EXISTING SIGN MOUNTED ON WOOD POST(S)
- EXISTING TYPE I SIGN MOUNTED ON STRUCTURAL STEEL SIGN SUPPORTS
- RBC — DENOTES SIGN REMOVAL BY THE CITY OF MADISON
- x00-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING REMOVAL PLAN	PAGE 08 OF 09	SHEET 251	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023201-PS (PERM SGN - REMOVAL PLAN).DWG PLOT DATE : 1/13/2022 3:26 PM PLOT BY : SEH LAYOUT NAME : 08 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

2

N

0'XAB' 2'XAB' 4'XAB' 6'XAB' 8'XAB' 10'XAB' CTH AB 12'XAB' 14'XAB'

MATCH LINE 15+00'XAB'
(SEE PAGE 06 OF 09)

PERMANENT SIGNING REMOVAL LEGEND

- EXISTING SIGN MOUNTED ON WOOD POST(S)
- EXISTING TYPE I SIGN MOUNTED ON STRUCTURAL STEEL SIGN SUPPORTS
- RBC — DENOTES SIGN REMOVAL BY THE CITY OF MADISON
- x00-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: R=REMOVE, W=WORK BY OTHERS

R09-01
R09-02
REMOVE

WELL

R09-03
JCT 12 18
REMOVE

R09-04
R09-05
NO PARKING ANY TIME
REMOVE

N

JCT 12 18
REMOVE
R09-06

MATCH LINE 24+80'XAB'
(SEE PAGE 06 OF 09)

26'XAB' 28'XAB' 30'XAB' 32'XAB' CTH AB 34'XAB' 36'XAB' 38'XAB'

MOVE EXISTING SIGN
(SEE PERMANENT
SIGNING PLAN)
DEAD END

REMOVE "NO TURN
AROUND" SIGN ONLY
NO TURN AROUND
R09-09

LUDS LN

R09-07
R09-08

EXISTING SIGNS
TO REMAIN
Luds Ln
STOP

REMOVE

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING REMOVAL PLAN	PAGE 09 OF 09	SHEET 252	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023201-PS (PERM SGN - REMOVAL PLAN).DWG PLOT DATE : 1/13/2022 3:26 PM PLOT BY : SEH LAYOUT NAME : 09 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON TUBULAR POST(S) (NOTE, BOX OUTS REQ'D FOR CONCRETE AREAS)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

INDEX OF SHEETS: PERMANENT SIGNING

01 - 09	PERMANENT SIGNING PLAN (EB & WB USH 12/18, WEST MILLPOND RD AND MAAHIC WAY)
10 - 12	PERMANENT SIGNING PLAN (EAST MILLPOND RD)
13 - 18	PERMANENT SIGNING PLAN (CTH AB)
19 - 21	PERMANENT SIGNING PLAN (CTH AB RAMPS)
22	PERMANENT SIGNING PLAN (LUDS LANE)

N

2

WB TO NB EXIT RAMP
IH 39/90 SB
IH 39/90 NB
NB TO WB ENTRANCE RAMP
EB TO NB EXIT RAMP
NB TO EB EXIT RAMP
MILLPOND RD
SAVANNAH RD
EB TO SB EXIT RAMP
IH 39/90 NB
IH 39/90 SB
LONG DR
EB OFF RMP
LANDFILL DR
MAAHIC WAY
USH 12/18 WB
USH 12/18 EB
MILLPOND RD
CTH AB
LUDS LN
FEMRITE DR
DOOR CREEK
USH 12/18 WB
USH 12/18 EB
ROTHAMER RD
SIGGELKOW RD
CTH AB
CTH AB

01 02 03 04 05 06 07 08 09 10 11 12 13b 13t 14 15 16 17 18 19 20 21 22b 22t

GENERAL NOTES: PERMANENT SIGNING

1. ALL YIELD SIGNS (R1-2) SHALL BE MOUNTED AT A HEIGHT OF 7'-3" (FROM ADJACENT PAVEMENT TO BOTTOM OF SIGN) AND SHALL BE MOUNTED ON TUBULAR POST (BOX OUTS REQUIRED FOR CONCRETE AREAS).
2. WHERE SHOWN, SIGN FLAGS PERMANENT (18"x18" MINIMUM, ORANGE, 6 MONTH INSTALLATION PERIOD) SHALL BE INSTALLED.

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	INDEX OF SHEETS - PERMAMENT SIGNING	PAGE 00 OF 22	SHEET 253	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023200-PS (PERM SGN - INDEX OF SHEETS).DWG PLOT DATE : 3/10/2022 8:00 AM PLOT BY : SEH LAYOUT NAME : 00 PLOT SCALE : 1.0 IN = 1000.0 FT
WISDOT/CADDS SHEET 42

2

2

N

USH 12/18 WB

WB TO NB EXIT RAMP

EB TO NB EXIT RAMP

RIPRAP

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

EAST 12 MILE 267 .8

EXISTING SIGN TO REMAIN

EAST 12 MILE 268 0

EXISTING SIGN TO REMAIN

WISDOT - FIBER

110'EB' 112'EB' 114'EB' 116'EB' 118'EB' 120'EB' 122'EB' 124

124+00'EB'

USH 12/18 EB

NB TO EB ENTRANCE RAMP

EXISTING SIGN TO REMAIN

EXISTING SIGNS TO REMAIN

SPEED LIMIT 55

EXISTING SIGN TO REMAIN

S-13-569

01-01

SIGN

E1-5P 120"x 30"

EXIT 268

E6-51 180"x 66"

Millpond Rd

1/4 MILE

E11-1 180"x 36"

EXIT ONLY

TYPE 1

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 01 OF 22	SHEET 254	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023202-PS (PERM SGN - USH 12-18).DWG PLOT DATE : 3/10/2022 8:01 AM PLOT BY : SEH LAYOUT NAME : 01 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

MAAHIC WAY

USH 12/18 WB

USH 12/18 EB

LONG DR

MILLPOND RD

CITY OF MADISON ENGINEERING - SEWER

MOVE TO STA 128+56'EB', LT

WISDOT ITS - FIBER

M02-01

SPEED LIMIT 30

02-09

R2-1
24"x 30"

MADISON WATER - WATER

MG&E - GAS

MOVE TO STA 139+12'EB', LT

MG&E - ELEC

M03-01

D10-5

AT&T - FIBER
AT&T - TEL

MG&E - ELEC
CHARTER - TEL
(ON MG&E POLES)

J4-4
144"x54"

02-01

S-13-570

02-05

E1-5P
120"x 30"

EXIT 268

E6-1
180"x 42"

Millpond Rd

E11-1D
180"x 42"

EXIT ONLY

TYPE 1

FHR - GAS

02-03
02-04

SPEED LIMIT 55

R2-1
48"x60"

02-02

Ho-Chunk Casino
EXIT 268
(Green)

Lake Kegonsa
State Park
EXIT 269
(Brown)

TYPE 1
E3-1
204"x138"

CITY OF MADISON ENGINEERING - SEWER

MADISON WATER - WATER

MG&E - ELEC
CHARTER - TEL
AT&T WI - FIBER
AT&T WI - TEL
(ON MG&E POLES)

FHR - GAS
HIGH PRESSURE - 8"

MADISON WATER-
WATER

MMSD - SEWER

CITY OF MADISON
PARKS/YAHARA HILLS
GOLF COURSE

SEE PAGE 10 OF 22 FOR
MILLPOND RD WORK

02-06
02-07

02-08

NO PARKING
ON RAMP
EXCEPT MAINTENANCE
AND POLICE AUTHORIZED
VEHICLES

R7-64
48"X30"

EXIT
268

E5-1A
72"X60"

15 MPH

E13-1P
72"x24"

CAUTION

126'WB' 128'WB' 130'WB' 132'WB' 134'WB' 136'WB' 138'WB'

126'EB' 128'EB' 130'EB' 132'EB' 134'EB' 136'EB' 138'EB'

124+00'EB' 139+00'EB'

32'E' 34'E' 36'E' 38'E'

326'MP' 328'MP' 330'MP' 332'MP' 334'MP' 336'MP' 338'MP'

434'LD' 436'LD' 438'LD'

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 02 OF 22	SHEET 255	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023202-PS (PERM SGN - USH 12-18).DWG PLOT DATE : 5/25/2022 1:43 PM PLOT BY : SEH LAYOUT NAME : 02 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

2

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 — DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

N

SCALE

EAST 12 MILE 268 .6

WEST 12 MILE 268 .6

MOVE TO STA 149+68'EB', LT

ROAD NARROWS

W5-1 36"X36"

03-16

MG&E ELEC

MUFN - FIBER

LANDFILL DR

EAST 12 MILE 268 .6

D10-5

M03-03

WEST 12 MILE 268 .6

D10-5

M03-04

WEST 12 MILE 268 .4

D10-5

M03-02

ANR PIPELINE - GAS HIGH PRESSURE 10"

ANR PIPELINE - GAS HIGH PRESSURE 6"

MUFN - FIBER

440'LD' 442'LD' 444'LD' 446'LD' 448'LD' 450'LD' 452'LD' 454

MAAHIC WAY

MG&E ELEC

FHR - GAS

WISDOT ITS - FIBER

ABANDONED SEWER

WISDOT ITS - FIBER

FRONTIER - TEL

140'WB' 142'WB' 144'WB' 146'WB' 148'WB' 150'WB' 152'WB' 154'

USH 12/18 WB

CITY OF MADISON - LIGHTING

139+00'EB' +12

140'EB' 142'EB' 144'EB' 146'EB' 148'EB' 150'EB' 152'EB' 154

+68

154+00'EB'

CAUTION

CITY OF MADISON - LIGHTING

USH 12/18 EB

40'E' EB EXIT RAMP 42'E' 44'E' 348'MP' 350'MP' 352'MP' 354

MG&E - GAS

MG&E - ELEC

MILLPOND RD

MG&E - GAS

FHR - GAS HIGH PRESSURE 8"

MG&E - ELEC

MADISON WATER - WATER

340'MP'

346'MP'

MG&E - ELEC

344'MP'

SEE PAGE 11 OF 22 FOR ROUND ABOUT SIGNING

342'MP'

9'GC'

MG&E - ELEC

03-14 03-15

W2-6 30"X30"

15 M.P.H.

W13-1 18"X18"

EAST 12 MILE 268 .8

WEST 12 MILE 268 .8

MOVE TO STA 160+24'EB', LT

03-01

RAMP

15 M P H

W13-3D 48"X84"

03-02 03-03 03-04 03-05

W2-6 30"X30"

15 M.P.H.

W13-1 18"X18" NOTE, BANDED TO PROPOSED LIGHT POLE.

03-06

W12-1D 48"X48" 2' MOUNTING HEIGHT.

03-07

SPEED LIMIT 30

R2-1 24"x30"

03-08

D1-2 72"x24"

Ho-Chunk Casino

03-09 03-10 03-11

W1-8 30"x36" 40' SPACING

ANR PIPELINE - GAS HIGH PRESSURE 6"

ANR PIPELINE - GAS HIGH PRESSURE 10"

03-12

E1-5P 120"x 30"

EXIT 269

AB

Madison

McFarland

¾ MILE

E1-1A 192"x 156"

TYPE 1

MUFN - FIBER

MG&E - ELEC

03-17

STOP

R1-1 30"X30"

03-13

SPEED LIMIT 30

R2-1 24"x 30" NOTE, BANDED TO PROPOSED LIGHT POLE.

MG&E - GAS

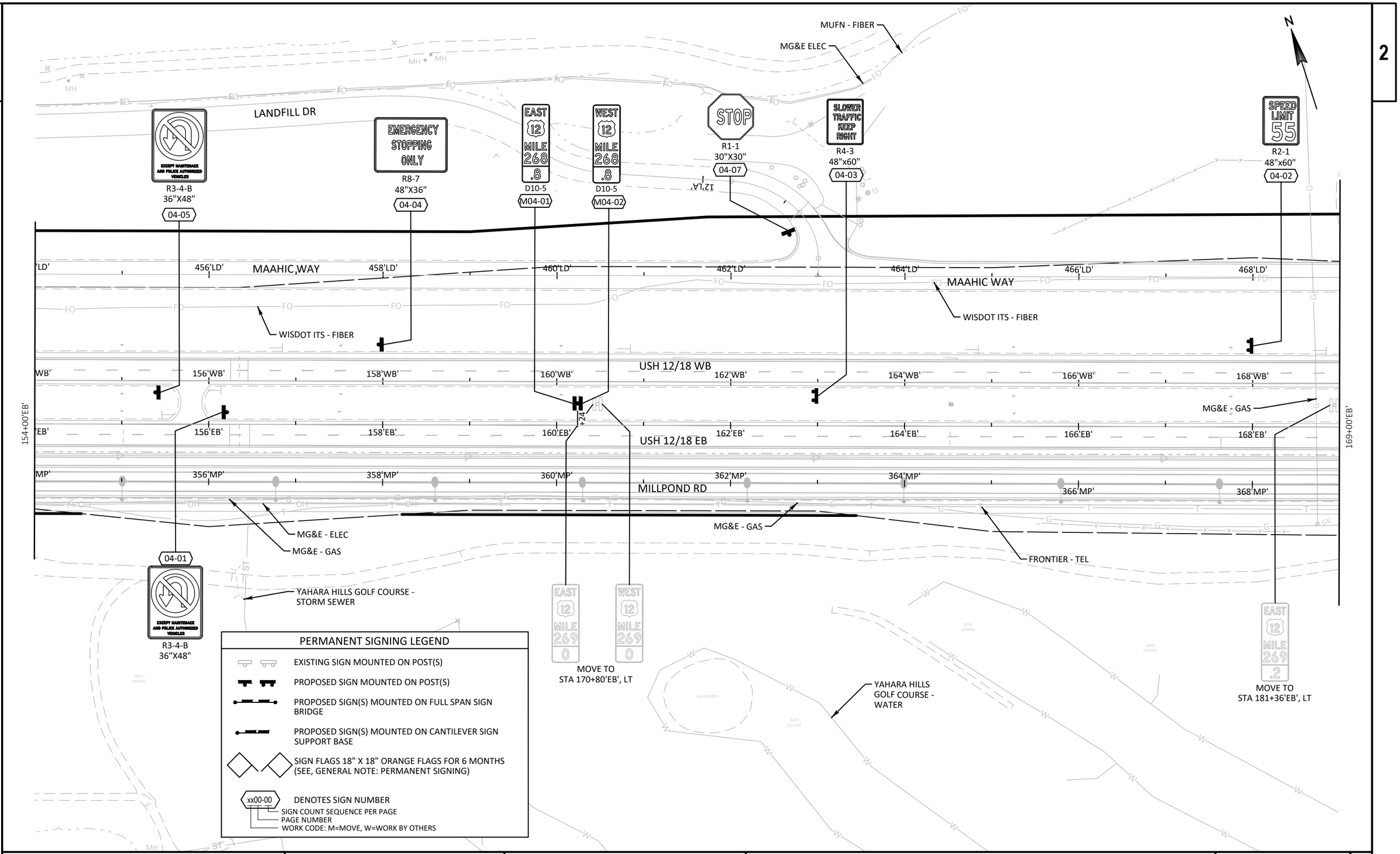
MADISON WATER - WATER

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 03 OF 22	SHEET 256	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023202-PS (PERM SGN - USH 12-18).DWG PLOT DATE : 3/10/2022 8:01 AM PLOT BY : SEH LAYOUT NAME : 03 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2



PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 04 OF 22	SHEET 257	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023202-PS (PERM SGN - USH 12-18).DWG PLOT DATE : 3/10/2022 8:02 AM PLOT BY : SEH LAYOUT NAME : 04 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

MUFN - FIBER

EAST 12 MILE 269 0
D10-5
M05-01

WEST 12 MILE 269 0
D10-5
M05-02

WEST 12 | WEST 18
J4-2
72"x54"
05-06

W3-1
36"X36"
05-05

SPEED LIMIT 30
R2-1
24"x 30"
05-04

EAST 12 MILE 269 .2
D10-5
M05-03

WEST 12 MILE 269 .2
D10-5
M05-04

WISDOT ITS - FIBER

470'LD' 472'LD' 474'LD' 476'LD' 478'LD' 480'LD' 482'LD' 484'

MAAHIC WAY

170'WB' 172'WB' 174'WB' 176'WB' 178'WB' 180'WB' 182'WB' 184'

USH 12/18 WB

169+00'EB' 184+00'EB'

+80 +36

170'EB' 172'EB' 174'EB' 176'EB' 178'EB' 180'EB' 182'EB' 184'

USH 12/18 EB

370'MP' 372'MP' 374'MP' 376'MP' 378'MP' 380'MP' 382'MP' 384'

MILLPOND RD

FRONTIER - TEL

MG&E - GAS

S-13-571

WEST 12 MILE 269 .2
MOVE TO
STA 181+36'EB', LT

05-01
TO Maahic Way
Landfill Dr
EXIT 269
TYPE 1
E3-1
180"x 84"

EAST 12 MILE 269 .4
WEST 12 MILE 269 .4
MOVE TO
STA 191+92'EB', LT

E1-5P
120"x 30"
EXIT 269

E6-1
168"x 108"
AB
Madison
McFarland
EXIT ONLY

E11-1D
168"x 42"
TYPE 1

05-02

05-03
NO PARKING
ON RAMP
EXCEPT MAINTENANCE
AND POLICE AUTHORIZED
VEHICLES
R7-64
48"X30"

YAHARA HILLS
GOLF COURSE -
WATER

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 05 OF 22	SHEET 258	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023202-PS (PERM SGN - USH 12-18).DWG
PLOT DATE : 3/10/2022 8:02 AM
PLOT BY : SEH
LAYOUT NAME : 05
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

ALLIANT ENERGY - GAS
FRONTIER - FIBER
FRONTIER - TEL
VISDOT ITS - FIBER
ALLIANT ENERGY - ELEC
MAAHIC WAY
CTH AB
W4-1R
48"x48"
06-06
EAST 12 MILE 269 .4
D10-5
M06-01
WEST 12 MILE 269 .4
D10-5
M06-02
EAST 12 MILE 269 .6
MOVE TO STA 202+48'EB', LT
WEST 12 MILE 269 .6
MOVE TO STA 202+48'EB', LT
CAUTION
WB ENTRANCE RAMP
SEE PAGE 17 OF 22
FRONTIER - FIBER
ALLIANT ENERGY - GAS
FRONTIER - TEL
Hwy AB
M1-94
60"x21"
06-05
USH 12/18 WB
USH 12/18 EB
S-13-563
ALLIANT ENERGY - ELEC
FRONTIER - TEL
ALLIANT ENERGY - ELEC
ALLIANT ENERGY - ELEC
EAST 12 MILE 269 .8
WEST 12 MILE 269 .8
MOVE TO STA 213+04'EB', LT
06-04
Hwy AB
M1-94
60"x21"
S-13-562
EB EXIT RAMP
SEE PAGE 19 OF 22
MG&E - GAS
06-01
06-02
W2-6
30"X30"
15 M.P.H.
W13-1
18"X18"
06-03
E5-1A
72"X60"
EXIT 269
SEE PAGE 12 OF 22
MILLPOND RD
CTH AB
VENT

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 06 OF 22	SHEET 259	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023202-PS (PERM SGN - USH 12-18).DWG PLOT DATE : 3/10/2022 8:02 AM PLOT BY : SEH LAYOUT NAME : 06 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

N

E1-5P
120"x 30"
EXIT 269
AB
McFarland
Madison
TYPE 1
E4-1A
228"x 126"
07-02

W2-6
30"X30"
15 M.P.H.
W13-1
18"X18"
07-05
07-06

EXIT 269
E5-1A
72"X60"
07-04

NO PARKING ON RAMP
EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
R7-64
48"X30"
07-03

CAUTION

ALLIANT ENERGY - ELEC
ALLIANT ENERGY - GAS
ALLIANT ENERGY - GAS
ALLIANT ENERGY - GAS

EAST 12 MILE 269 .6
D10-5
M07-01

WEST 12 MILE 269 .6
D10-5
M07-02

FRONTIER - FIBER

804'C' WB EXIT RAMP
SEE PAGE 20 OF 22

806'C'
808'C'
810'C'

USH 12/18 WB

200'WB' 202'WB' 204'WB' 206'WB' 208'WB' 210'WB' 212'WB' 214'

199+00'EB'

200'EB' 202'EB' 204'EB' USH 12/18 EB 206'EB' 208'EB' 210'EB' 212'EB' 712'B' 214

+48 +50 +50 +04

214+00'EB'

710'B'
708'B'
706'B'
704'B'
702'B'
700'B'

FRONTIER - TEL
07-01
W4-1R
48"x48"

EB ENTRANCE RAMP
SEE PAGE 21 OF 22

ALLIANT ENERGY - ELEC

EAST 12 MILE 270 0
WEST 12 MILE 270 0
MOVE TO
STA 223+60'EB', LT

07-07
07-08
07-09
W11-6
48"x48"

EAST 12 MILE 270 .2
WEST 12 MILE 270 .2
MOVE TO
STA 234+16'EB', LT

M07-03
EAST 12 MILE 269 .8
D10-5

M07-04
WEST 12 MILE 269 .8
D10-5

2

2

N

TO Maahic Way
Landfill Dr
EXIT 269

TYPE 1
E3-1
180"x 84"

08-04

CAUTION

R5-57
36"X36"

PEDESTRIANS
BICYCLES
NON MOTORIZED TRAFFIC
MOTOR BICYCLES
PROHIBITED

R5-57B
36"X30"

BEYOND
NEXT
EXIT

08-02

08-03

WEST
12
MILE
270
0

D10-5

M08-02

W11-6
48"x48"

08-07

08-08

ALLIANT ENERGY - GAS

216'WB' 218'WB' 220'WB' 222'WB' USH 12/18 WB 224'WB' 226'WB' 228'WB'

214+00'EB'

216'EB' 218'EB' 220'EB' 222'EB' USH 12/18 EB 224'EB' 226'EB' 228'EB'

229+00'EB'

+60

ALLIANT ENERGY - ELEC

UNT TO DOOR CREEK

08-05

08-06

EXCEPT MAINTENACE AND POLICE AUTHORIZED VEHICLES

R3-4-B
36"X48"

EXCEPT MAINTENACE AND POLICE AUTHORIZED VEHICLES

R3-4-B
36"X48"

M08-01

EAST
12
MILE
270
0

D10-5

08-01

EAST 12 | EAST 18 | ALTERNATE INTERSTATE 39 | ALTERNATE INTERSTATE 90

J4-4
144"x54"

SIGN

FLAG

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 08 OF 22	SHEET 261	E

2

Ho-Chunk Casino
(Green)
Lake Kegonsa
State Park
EXIT 269
(Brown)

TYPE 1
E3-1
204"x120"
09-04

CAUTION

DOOR CREEK

EAST
12
MILE
270
.2
D10-5
M09-01

WEST
12
MILE
270
.2
D10-5
M09-02

E1-5P
120"x 30"
EXIT 269
AB
McFarland
Madison
1/2 MILE
E1-1A
192"x 156"
TYPE 1
09-03

CAUTION

N

230'WB'

USH 12/18 WB

229+00'EB'
230'EB'
232'EB'
234'EB'
236'EB'
USH 12/18 EB
238'EB'
240'EB'
242'EB'
244'EB'

+81

09-01
SPEED
LIMIT
55
R2-1
48"x60"

EXISTING SIGN
TO REMAIN
Femrite Dr
Siggelkow Rd

09-02
Cambridge 13
Fort Atkinson 24
TYPE 1
D2-2
228"x60"

EXISTING SIGN
TO REMAIN
WRONG
WAY

DOOR CREEK

SIGGELKOW RD

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 09 OF 22	SHEET 262	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023202-PS (PERM SGN - USH 12-18).DWG
PLOT DATE : 3/10/2022 8:02 AM
PLOT BY : SEH
LAYOUT NAME : 09
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

2

N

MG&E - ELEC
CHARTER - TEL
AT&T WI - FIBER
AT&T WI - TEL
(ON MG&E POLES)

AT&T WI - FIBER

AT&T WI - TEL

LONG DR

CITY OF MADISON
ENGINEERING - SEWER

FHR - GAS

D3-3
Long Rd
Millpond Rd
D3-3
10-05
10-06

R1-1
30"X30"
10-07

STOP

R7-1-D
18"X24"
10-09

R2-1
24"X30"
10-08

R7-1-D
18"X24"
10-04

MADISON WATER - WATER

SEE PAGE 02 OF 22

MILLPOND RD

326'MP'
327'MP'
328'MP'
329'MP'
330'MP'
331'MP'
332'MP'
333'MP'

CAUTION

11'LR'

10-01
R7-1-D
18"X24"
NOTE, BANDED
TO PROPOSED
LIGHT POLE.

FHR - GAS

MADISON WATER-WATER

10-02
R7-1-D
18"X24"
NOTE, BANDED
TO PROPOSED
LIGHT POLE.

10-03
R2-1
24"X30"
NOTE, BANDED
TO PROPOSED
LIGHT POLE.

CITY OF MADISON
PARKS/YAHARA
HILLS GOLF COURSE

MMSD - SEWER

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON TUBULAR POST(S) (NOTE, BOX OUTS REQ'D FOR CONCRETE AREAS)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 10 OF 22	SHEET 263	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023203-PS (PERM SGN - CTH AB).DWG
PLOT DATE : 5/25/2022 1:51 PM
PLOT BY : SEH
LAYOUT NAME : 10
PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

2

N

CITY OF MADISON-LIGHTING

CITY OF MADISON ENGINEERING - SEWER

MG&E - GAS

FHR - GAS

MG&E - ELEC

EB EXIT RAMP

USH 12/18 WB

USH 12/18 EB

SEE PAGE 03 OF 22

SEE PAGE 03 OF 22

MILLPOND RD

MILLPOND RD

MG&E - ELEC

MG&E - GAS

MG&E - ELEC

MUFN - FIBER

MG&E - ELEC

GOLF COURSE ACCESS

MADISON WATER - WATER

ANR PIPELINE - GAS
HIGH PRESSURE 10"

ANR PIPELINE - GAS
HIGH PRESSURE 6"

R5-1
30"X30"
11-14

R3-1
24"X24"
11-13

R4-7
24"X30"
11-12

R1-2
36"X31"
11-15
11-16

R4-7
24"X30"
11-01

R1-2
36"X31"
11-02
11-03

R6-1R
36"X12"

R6-4B
60"X24"
11-04
11-05
11-06
11-07
11-08
11-09

R1-2
36"X31"
11-10
11-11

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON TUBULAR POST(S) (NOTE, BOX OUTS REQ'D FOR CONCRETE AREAS)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

NOTE:

1. ALL YIELD SIGNS (R1-2) SHALL BE MOUNTED AT A HEIGHT OF 7'-3" (FROM ADJACENT PAVEMENT TO BOTTOM OF SIGN).
2. WHERE SHOWN, SIGN FLAGS PERMANENT (18"x18" MINIMUM, ORANGE, 6 MONTH INSTALLATION PERIOD) SHALL BE INSTALLED

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 11 OF 22	SHEET 264	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023203-PS (PERM SGN - CTH AB).DWG PLOT DATE : 3/30/2022 12:57 PM PLOT BY : SEH LAYOUT NAME : 11 PLOT SCALE : 1.0 IN = 50.0 FT

WISDOT/CADDS SHEET 42

2

N

ALLIANT ENERGY - ELEC

SEE PAGE 06 OF 22

FRONTIER - TEL

388'MP'

389'MP'

390'MP'

391'MPW'

391'MPE'

392'MPW'

392'MPE'

393'MPW'

393'MPE'

394'MPW'

394'MPE'

395'MPW'

395'MPE'

395+20'MP'

MATCH LINE

MILLPOND RD

ALLIANT ENERGY - ELEC

MG&E - GAS

FRONTIER - TEL

S-13-560

12-01
W6-1
36"X36"
NOTE, BANDED TO PROPOSED LIGHT POLE.

12-02
JCT
COUNTY AB
J1-1
24"X39"

12-03
12-04
W2-6
30"X30"
15 M.P.H.
W13-1
18"X18"
NOTE, BANDED TO PROPOSED LIGHT POLE.

12-05
T0 12 18
JV
24"x81"

12-06
R4-7
24"X30"

12-07
ONLY
R3-5X
42"X48"

12-08
R3-6W
42"X48"

12-09
WRONG WAY
R5-1A
36"X24"

12-10
SPEED LIMIT 30
R2-1
24"X30"

12-11
DO NOT ENTER
R5-1
30"X30"

12-12
W6-3
36"X36"

NOTE, BANDED TO PROPOSED LIGHT POLE.

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON TUBULAR POST(S) (NOTE, BOX OUTS REQ'D FOR CONCRETE AREAS)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

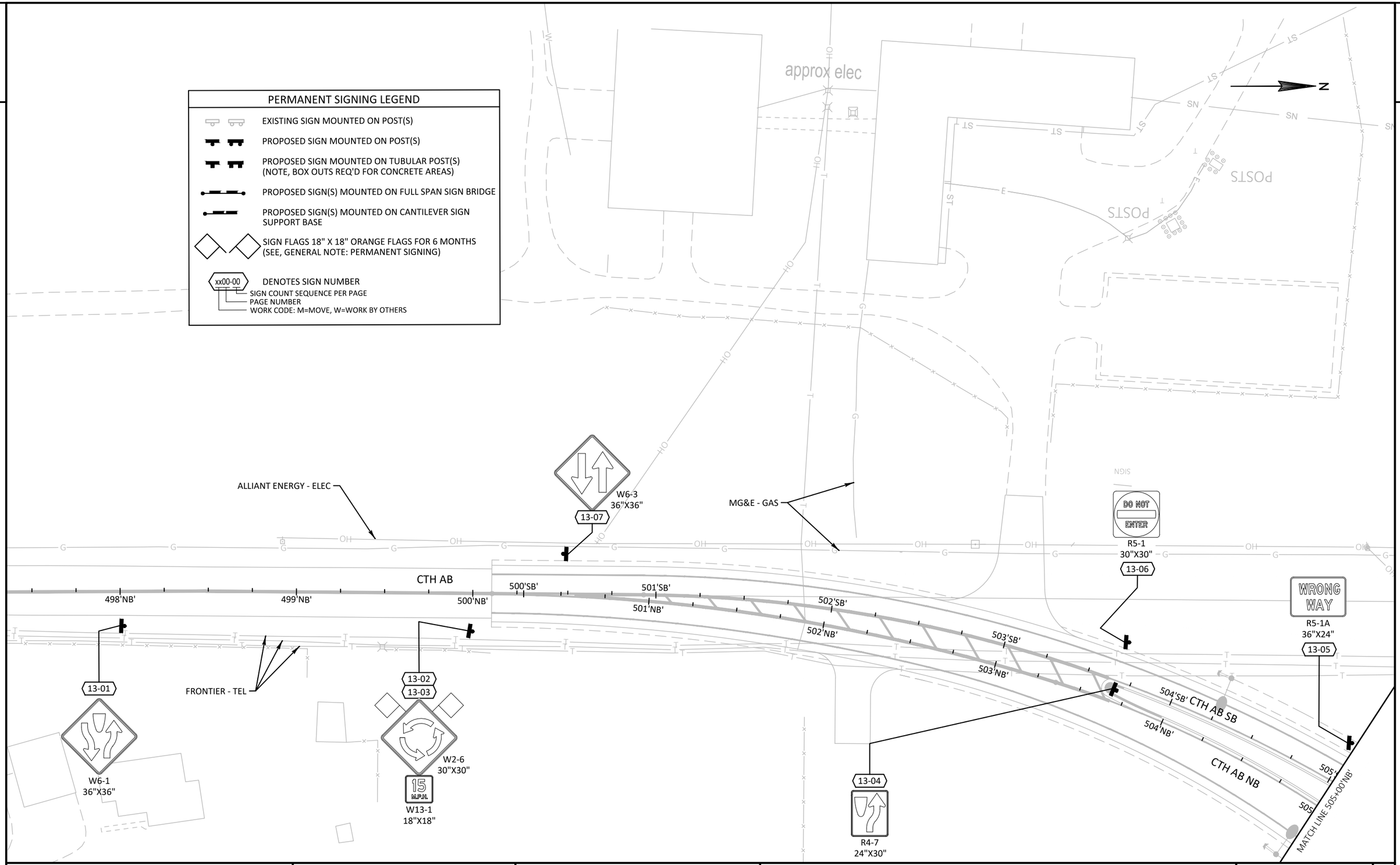
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 12 OF 22	SHEET 265	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023203-PS (PERM SGN - CTH AB).DWG PLOT DATE : 3/10/2022 8:03 AM PLOT BY : SEH LAYOUT NAME : 12 PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

2

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON TUBULAR POST(S) (NOTE, BOX OUTS REQ'D FOR CONCRETE AREAS)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS



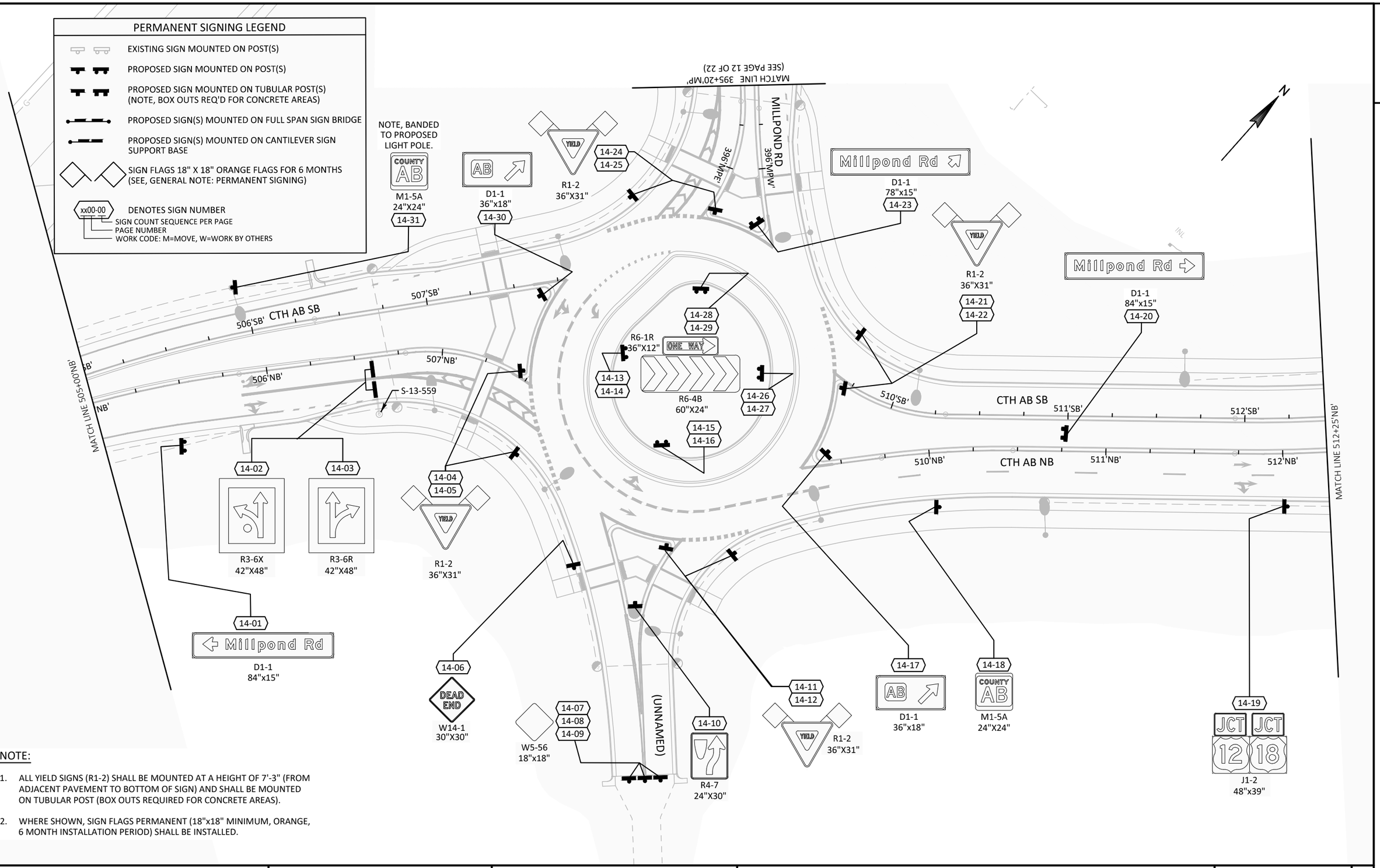
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 13 OF 22	SHEET 266	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023203-PS (PERM SGN - CTH AB).DWG | PLOT DATE : 3/10/2022 8:03 AM | PLOT BY : SEH | LAYOUT NAME : 13 | PLOT SCALE : 1.0 IN = 50.0 FT

WISDOT/CADDS SHEET 42

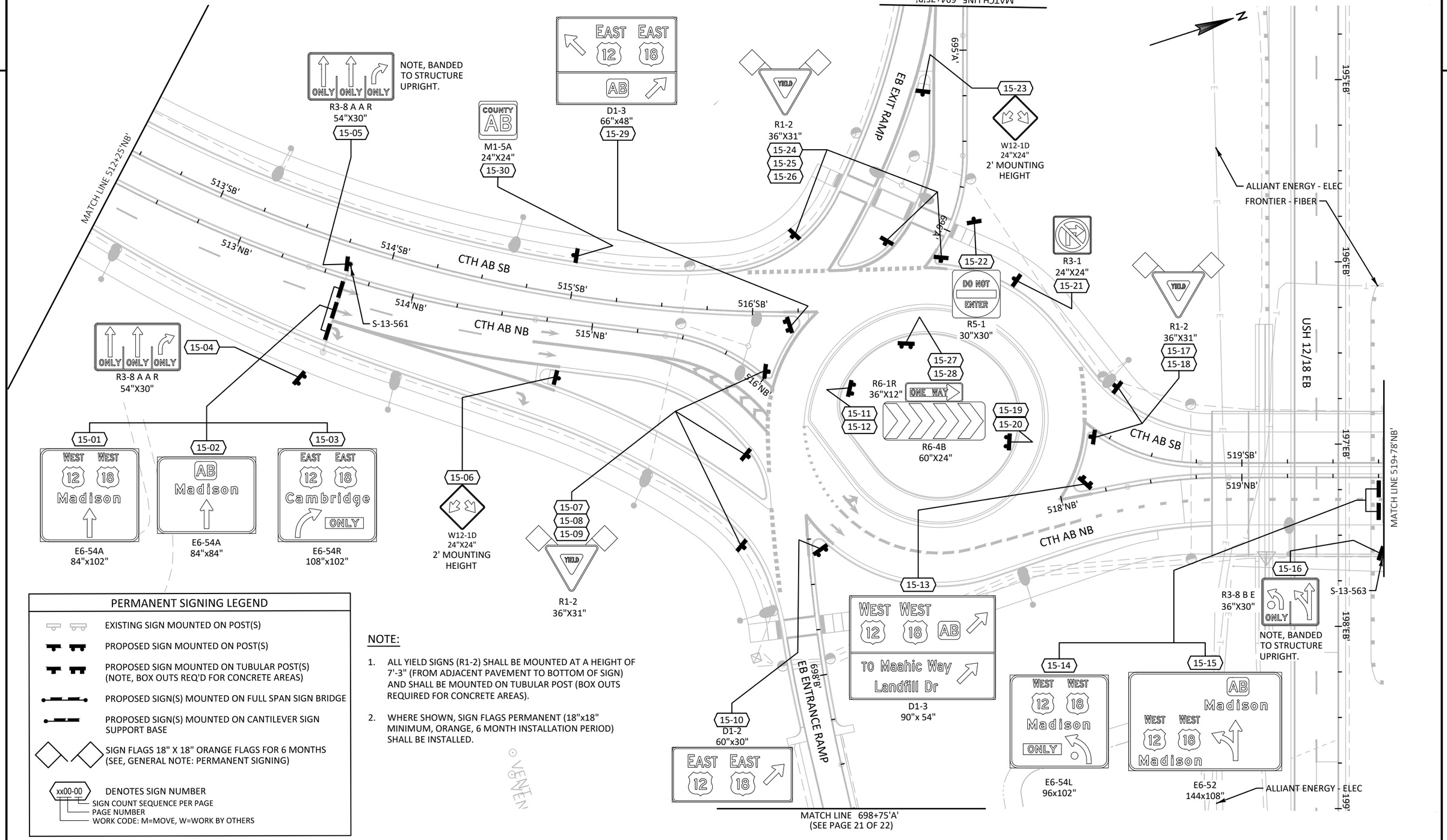
PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON TUBULAR POST(S) (NOTE, BOX OUTS REQ'D FOR CONCRETE AREAS)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS



NOTE:

1. ALL YIELD SIGNS (R1-2) SHALL BE MOUNTED AT A HEIGHT OF 7'-3" (FROM ADJACENT PAVEMENT TO BOTTOM OF SIGN) AND SHALL BE MOUNTED ON TUBULAR POST (BOX OUTS REQUIRED FOR CONCRETE AREAS).
2. WHERE SHOWN, SIGN FLAGS PERMANENT (18"x18" MINIMUM, ORANGE, 6 MONTH INSTALLATION PERIOD) SHALL BE INSTALLED.



PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON TUBULAR POST(S) (NOTE, BOX OUTS REQ'D FOR CONCRETE AREAS)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
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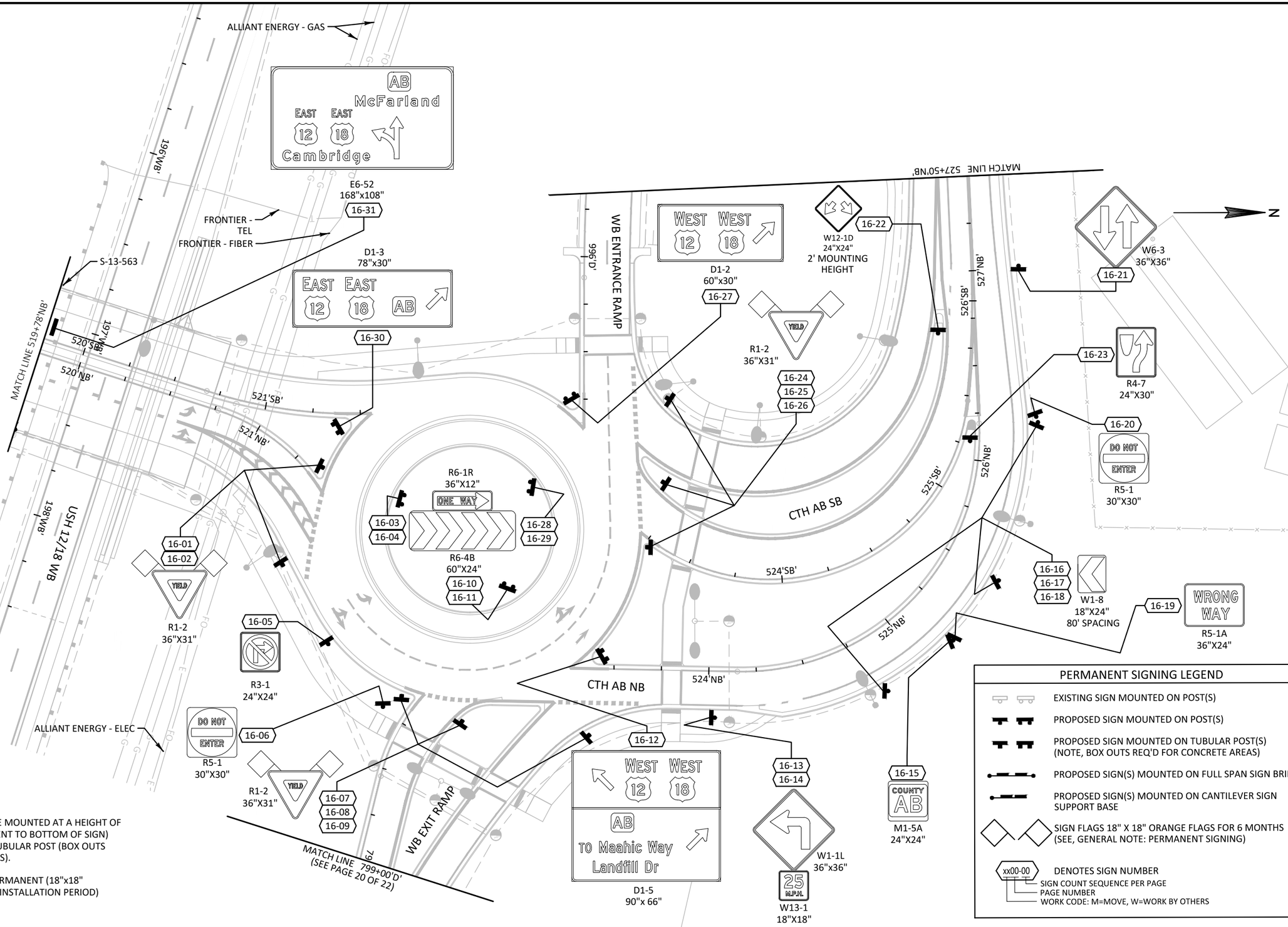
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

NOTE:

1. ALL YIELD SIGNS (R1-2) SHALL BE MOUNTED AT A HEIGHT OF 7'-3" (FROM ADJACENT PAVEMENT TO BOTTOM OF SIGN) AND SHALL BE MOUNTED ON TUBULAR POST (BOX OUTS REQUIRED FOR CONCRETE AREAS).
2. WHERE SHOWN, SIGN FLAGS PERMANENT (18"x18" MINIMUM, ORANGE, 6 MONTH INSTALLATION PERIOD) SHALL BE INSTALLED.

2



NOTE:

1. ALL YIELD SIGNS (R1-2) SHALL BE MOUNTED AT A HEIGHT OF 7'-3" (FROM ADJACENT PAVEMENT TO BOTTOM OF SIGN) AND SHALL BE MOUNTED ON TUBULAR POST (BOX OUTS REQUIRED FOR CONCRETE AREAS).
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PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
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- PROPOSED SIGN MOUNTED ON TUBULAR POST(S) (NOTE, BOX OUTS REQ'D FOR CONCRETE AREAS)
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- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 16 OF 22	SHEET 269	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023203-PS (PERM SGN - CTH AB).DWG PLOT DATE : 3/10/2022 8:04 AM PLOT BY : SEH LAYOUT NAME : 16 PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

2

ALLIANT ENERGY - GAS

FRONTIER - TEL

FRONTIER - FIBER

USH 12/18 WB

N

SEE PAGE 06 OF 22

CTH AB

MATCH LINE 527+50'NB'

MATCH LINE 534+25'NB'

528'NB'

529'NB'

530'NB'

531'NB'

532'NB'

533'NB'

534'NB'

17-14

PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED

R5-57
36"X36"

S-13-565

NOTE, BANDED TO STRUCTURE UPRIGHT.

ONLY ONLY

R3-8 A R
36"X30"

17-10

17-15

NO PARKING ON RAMP
EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

R7-64
48"X30"

W2-6
30"X30"

15 M.P.H.

W13-1
18"X18"

17-08

17-09

JCT JCT 12 18

J1-2
48"x39"

17-07

W1-8
18"X24"
80' SPACING

17-05

17-06

17-12

EAST EAST 12 18 AB
Cambridge
McFarland

E6-54A
120"x120"

17-13

WEST WEST 12 18
Madison
ONLY

E6-54R
96"x102"

17-01

17-02

W1-1R
36"x36"

25 M.P.H.

W13-1
18"X18"

17-03

17-04

W1-8
18"X24"
80' SPACING

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON TUBULAR POST(S) (NOTE, BOX OUTS REQ'D FOR CONCRETE AREAS)
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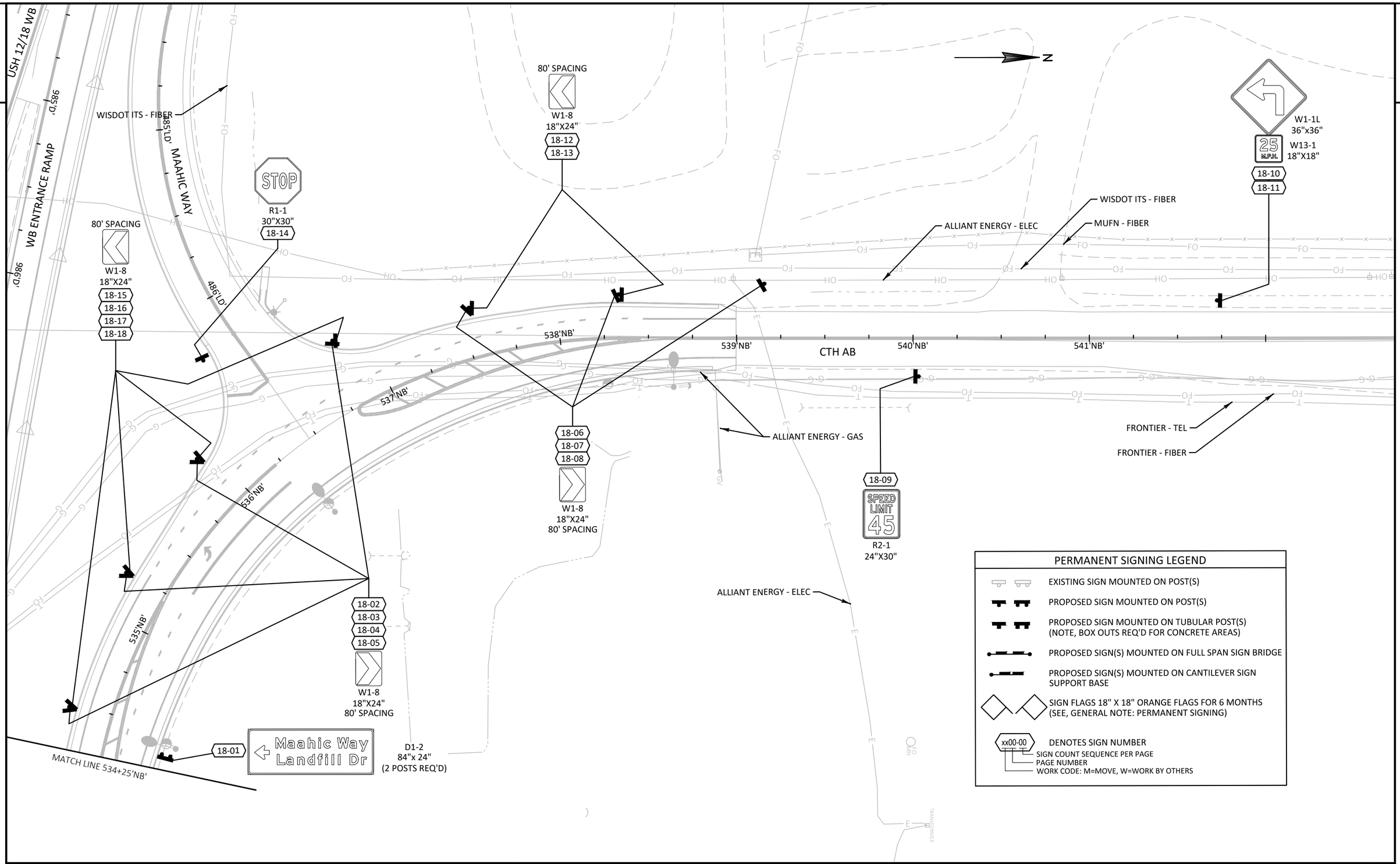
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 17 OF 22	SHEET 270	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023203-PS (PERM SGN - CTH AB).DWG PLOT DATE : 3/10/2022 8:04 AM PLOT BY : SEH LAYOUT NAME : 17 PLOT SCALE : 1.0 IN = 50.0 FT

WISDOT/CADDS SHEET 42



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- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 18 OF 22	SHEET 271	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023203-PS (PERM SGN - CTH AB).DWG
PLOT DATE : 3/10/2022 8:04 AM
PLOT BY : SEH
LAYOUT NAME : 18
PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

USH 12/18 WB

188'WB' 189'WB' 190'WB' 191'WB' 192'WB' 193'WB' 194'WB'

FRONTIER - TEL

188'EB' 189'EB' 190'EB' 193'EB' 194'EB'

USH 12/18 EB

N

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON TUBULAR POST(S) (NOTE, BOX OUTS REQ'D FOR CONCRETE AREAS)
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- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

688'A'

SEE PAGE 06 OF 22

689'A'

ALLIANT ENERGY - ELEC

690'A'

EB EXIT RAMP

691'A'

692'A'

693'A'

694'A'

S-13-562

MATCH LINE 694+75'B' (SEE PAGE 19 OF 22)

FRONTIER - TEL

ALLIANT ENERGY - ELEC

388'MP'

SEE PAGE 06 OF 22

ALLIANT ENERGY - ELEC

389'MP'

19-01

Madison
McFarland

D1-2
72"x30"
(2 POST REQ'D)

19-02
19-03

To Maahic Way Landfill Dr — D1-1 90"x 24"
Lake Kegonsa State Park — D1-2 90"x 24"

(2 POST REQ'D)

R3-8 I R
36"X30"
19-09

WRONG WAY
R5-1A
36"X24"
19-08

19-06

R3-8 I R
36"X30"
NOTE, BANDED TO STRUCTURE UPRIGHT.

19-07

WRONG WAY
R5-1A
36"X24"
NOTE, BANDED TO STRUCTURE UPRIGHT.

19-04

AB
Madison

E6-52
120"x60"

19-05

AB
McFarland
ONLY

E6-54R
108"x84"

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 19 OF 22	SHEET 272	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023203-PS (PERM SGN - CTH AB).DWG PLOT DATE : 3/10/2022 8:04 AM PLOT BY : SEH LAYOUT NAME : 19 PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

2

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON TUBULAR POST(S) (NOTE, BOX OUTS REQ'D FOR CONCRETE AREAS)
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  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

N

AB McFarland
E6-52
144"x60"
20-05

AB Madison ONLY
E6-54R
96"x84"
20-06

Lake Kegonsa State Park — D1-2 90"x 24"
TO Maahic Way Landfill Dr — D1-2 90"x 24"
(2 POST REQ'D)
20-02
20-03

McFarland
Madison
D1-2
72"x30"
(2 POST REQ'D)
20-01

ALLIANT ENERGY - GAS

WRONG WAY
R5-1A
36"X24"
20-08
NOTE, BANDED TO STRUCTURE UPRIGHTS.

S-13-564

20-07

ONLY
R3-8 I R
36"X30"
NOTE, BANDED TO STRUCTURE UPRIGHTS.

MATCH LINE 799+00'C' (SEE PAGE 16 OF 22)

799'C' 800'C' 801'C' 802'C' 803'C' 804'C' 805'C' 806'C'

WB EXIT RAMP

20-10
W12-1D
24"X24"
2' MOUNTING HEIGHT

20-09
WRONG WAY
R5-1A
36"X24"

20-04
ONLY
R3-8 I R
36"X30"

FRONTIER - FIBER

ALLIANT ENERGY - ELEC

ALLIANT ENERGY - GAS

SEE PAGE 07 OF 22

USH 12/18 WB

200'WB' 201'WB' 202'WB' 203'WB' 204'WB' 205'WB' 206'WB'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 20 OF 22	SHEET 273	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023203-PS (PERM SGN - CTH AB).DWG
PLOT DATE : 3/10/2022 8:04 AM
PLOT BY : SEH
LAYOUT NAME : 20
PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

2

'EB' 200'EB' 201'EB' 202'EB' 203'EB' 204'EB' 205'EB' 206'EB'

USH 12/18 EB

N

ALLIANT ENERGY - ELEC

FRONTIER - TEL

706'B'

705'B'

SEE PAGE 07 OF 22

704'B'

703'B'

702'B'

EB ENTRANCE RAMP

701'B'

700'B'

699'B'

MATCH LINE 698+75'A'
(SEE PAGE 15 OF 22)

21-01

NO PARKING
ON RAMP
EXCEPT MAINTENANCE
AND POLICE AUTHORIZED
VEHICLES

R7-64
48"X30"

PERMANENT SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON TUBULAR POST(S)
  (NOTE, BOX OUTS REQ'D FOR CONCRETE AREAS)
- PROPOSED SIGN(S) MOUNTED ON FULL SPAN SIGN BRIDGE
- PROPOSED SIGN(S) MOUNTED ON CANTILEVER SIGN SUPPORT BASE
- SIGN FLAGS 18" X 18" ORANGE FLAGS FOR 6 MONTHS
  (SEE, GENERAL NOTE: PERMANENT SIGNING)
- xx00-00 DENOTES SIGN NUMBER
  - SIGN COUNT SEQUENCE PER PAGE
  - PAGE NUMBER
  - WORK CODE: M=MOVE, W=WORK BY OTHERS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 21 OF 22	SHEET 274	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023203-PS (PERM SGN - CTH AB).DWG PLOT DATE : 3/10/2022 8:04 AM PLOT BY : SEH LAYOUT NAME : 21 PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

2

N

W5-56
18"x18"

22-03
22-04
22-05

529'LL'
530'LL'
531'LL'
532'LL'
533'LL'
534+00'LL'

MATCH LINE 534+00'LL'

LUDS LN

22-01
22-02

W1-1L
36"x36"

15 M.P.H.
W13-1
18"X18"

N

W1-1R
36"x36"

15 M.P.H.
W13-1
18"X18"

22-06
22-07

280'

MATCH LINE 497+50'NB

537'LL'
536'LL'
535'LL'

LUDS LN

NOTE, MOVE EXISTING SIGN TO STANDARD DISPLAY HEIGHT & TRIM EXCESS POST.

DEAD END
W14-1

M22-01

FRONTIER - TEL
FRONTIER - FIBER
30'XAB'
MUFN - FIBER
ALLIANT ENERGY - GAS
LUDS LN
CTH AB
31'XAB'

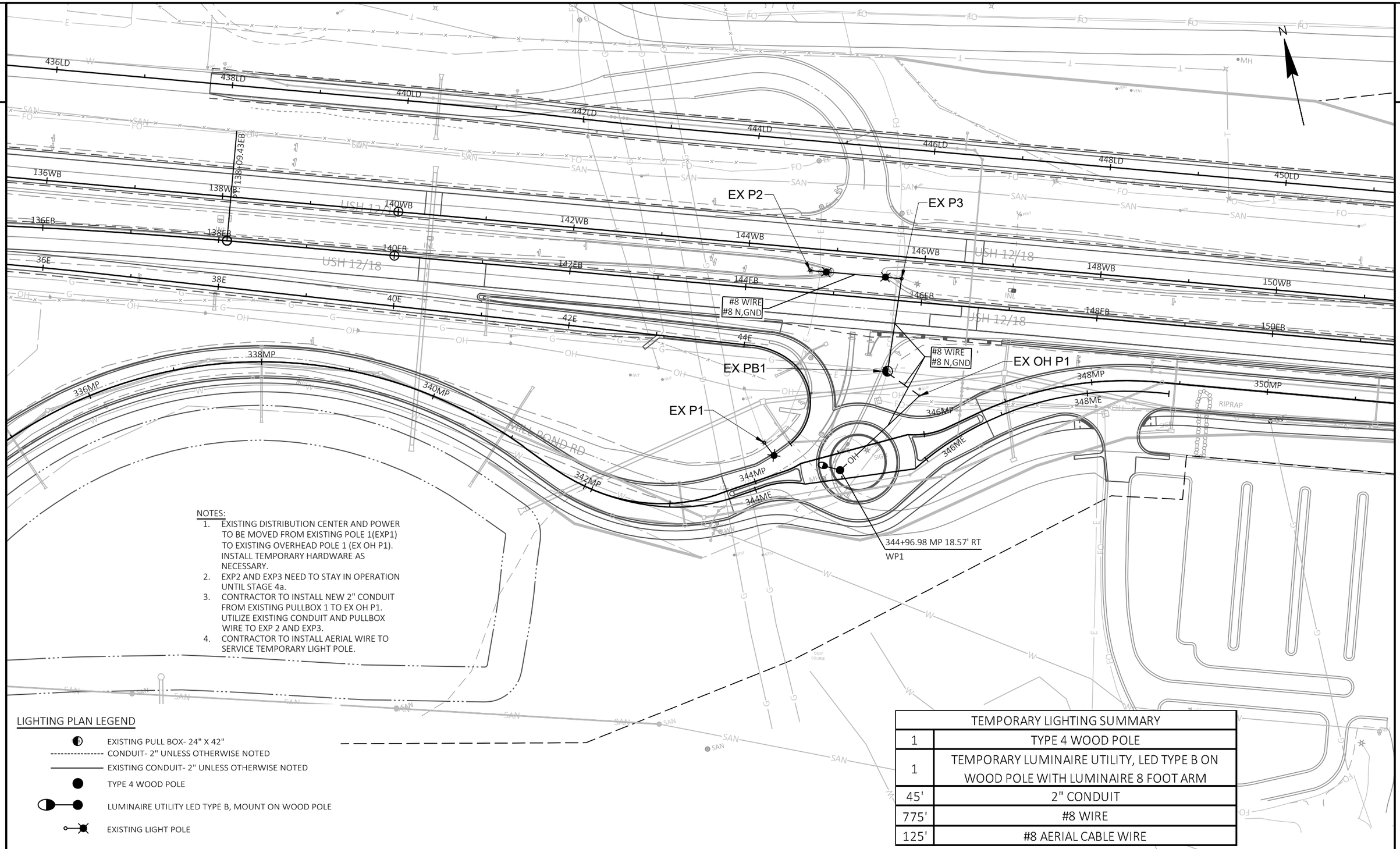
Luds Ln
STOP

EXISTING SIGNS TO REMAIN

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PERMAMENT SIGNING	PAGE 22 OF 22	SHEET 275	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\023203-PS (PERM SGN - CTH AB).DWG PLOT DATE : 3/10/2022 8:04 AM PLOT BY : SEH LAYOUT NAME : 22 PLOT SCALE : 1.0 IN = 50.0 FT

2



NOTES:

1. EXISTING DISTRIBUTION CENTER AND POWER TO BE MOVED FROM EXISTING POLE 1(EXP1) TO EXISTING OVERHEAD POLE 1 (EX OH P1). INSTALL TEMPORARY HARDWARE AS NECESSARY.
2. EXP2 AND EXP3 NEED TO STAY IN OPERATION UNTIL STAGE 4a.
3. CONTRACTOR TO INSTALL NEW 2" CONDUIT FROM EXISTING PULLBOX 1 TO EX OH P1. UTILIZE EXISTING CONDUIT AND PULLBOX WIRE TO EXP 2 AND EXP3.
4. CONTRACTOR TO INSTALL AERIAL WIRE TO SERVICE TEMPORARY LIGHT POLE.

LIGHTING PLAN LEGEND

- EXISTING PULL BOX- 24" X 42"
- CONDUIT- 2" UNLESS OTHERWISE NOTED
- EXISTING CONDUIT- 2" UNLESS OTHERWISE NOTED
- TYPE 4 WOOD POLE
- LUMINAIRE UTILITY LED TYPE B, MOUNT ON WOOD POLE
- EXISTING LIGHT POLE

TEMPORARY LIGHTING SUMMARY	
1	TYPE 4 WOOD POLE
1	TEMPORARY LUMINAIRE UTILITY, LED TYPE B ON WOOD POLE WITH LUMINAIRE 8 FOOT ARM
45'	2" CONDUIT
775'	#8 WIRE
125'	#8 AERIAL CABLE WIRE

PROJECT NO: 3080-01-76	HWY: USH 12/18	COUNTY: DANE	TEMPORARY LIGHTING - MILLPOND RD	SHEET 276	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023501_LT.DWG
LAYOUT NAME - 023501_lt
PLOT DATE : 2/3/2022 4:51 PM PLOT BY : LAUREN MAENHOUT PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

NOTES:

1. FREEWAY LIGHTING AND LOCAL STREET LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION AND CITY OF MADISON STANDARD SPECIFICATIONS SECTIONS 652, 655, 656, 657, AND 659 FOR PROJECT ID 3080-01-75.
2. FREEWAY LIGHTING AND LOCAL STREET LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PROJECT ID 0380-01-76.
3. PROJECT 0380-01-76 SHALL FOLLOW ALL GENERAL PROVISIONS FOR CITY ELECTRIC SYSTEMS AND CONDUIT INSTALLATION PER THE CITY OF MADISON.
4. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
5. LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, UNDER THE APPROVAL OF THE ENGINEER, ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS DUE TO SIGN FOUNDATIONS OR CURB AND GUTTER. FIELD MARK EACH CONDUIT LOCATION IN RED TO ILLUSTRATE AS BUILD CONDITIONS.
6. THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.
7. ALL OPEN AND UN-TERMINATED CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION.
8. BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.
9. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGED ON ALL CONDUITS.
10. PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.
11. CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX, JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.
12. PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.
13. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS (.PDF FORMAT) FOR ALL THE WORK BEING DONE.
14. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.
15. WHERE MULTIPLE CIRCUITS ARE PRESENT IN THE SAME CONDUIT OR DUCT, CONTRACTOR SHALL CLEARLY LABEL EACH CIRCUIT.
16. WHERE LIGHTING WIRING IS LOCATED WITHIN A SINGLE POLE, BOTH CIRCUITS SHALL BE CLEARLY LABELED.
17. LIGHTING PULL BOXES SHALL BE CLEARLY IDENTIFIED WITH "LIGHTING" ON THEIR COVERS IN PLAIN SIGHT.

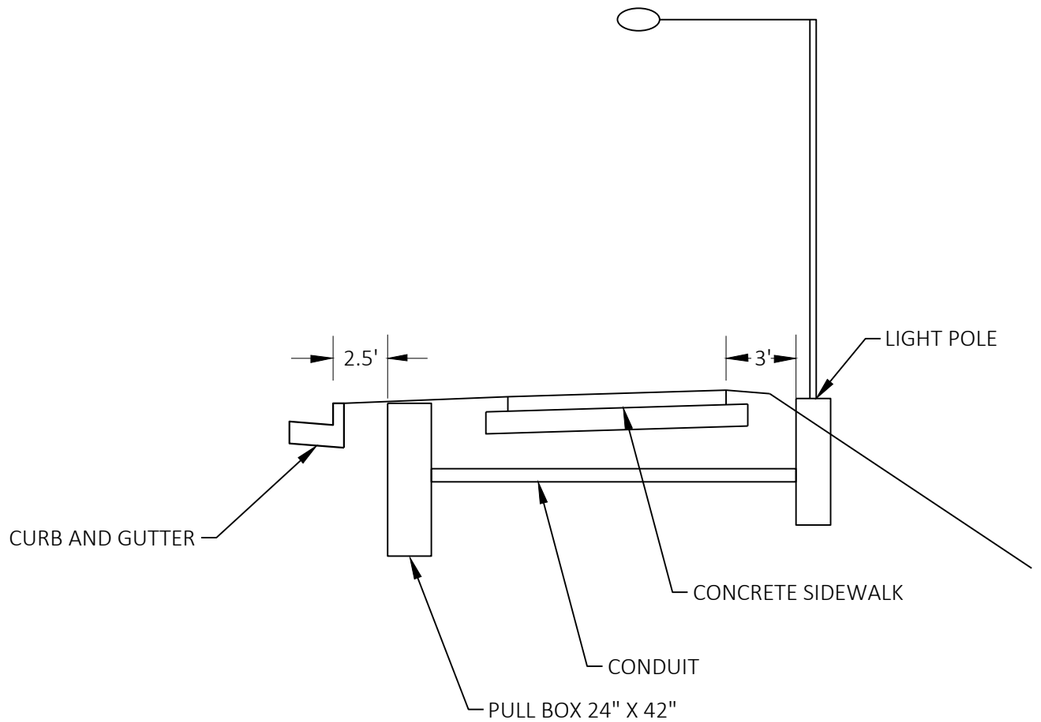
STREET LIGHTING PLANS PREPARED BY:

WISCONSIN
Amanda M Johnson
45263-6
Indianapolis
IN
PROFESSIONAL ENGINEER

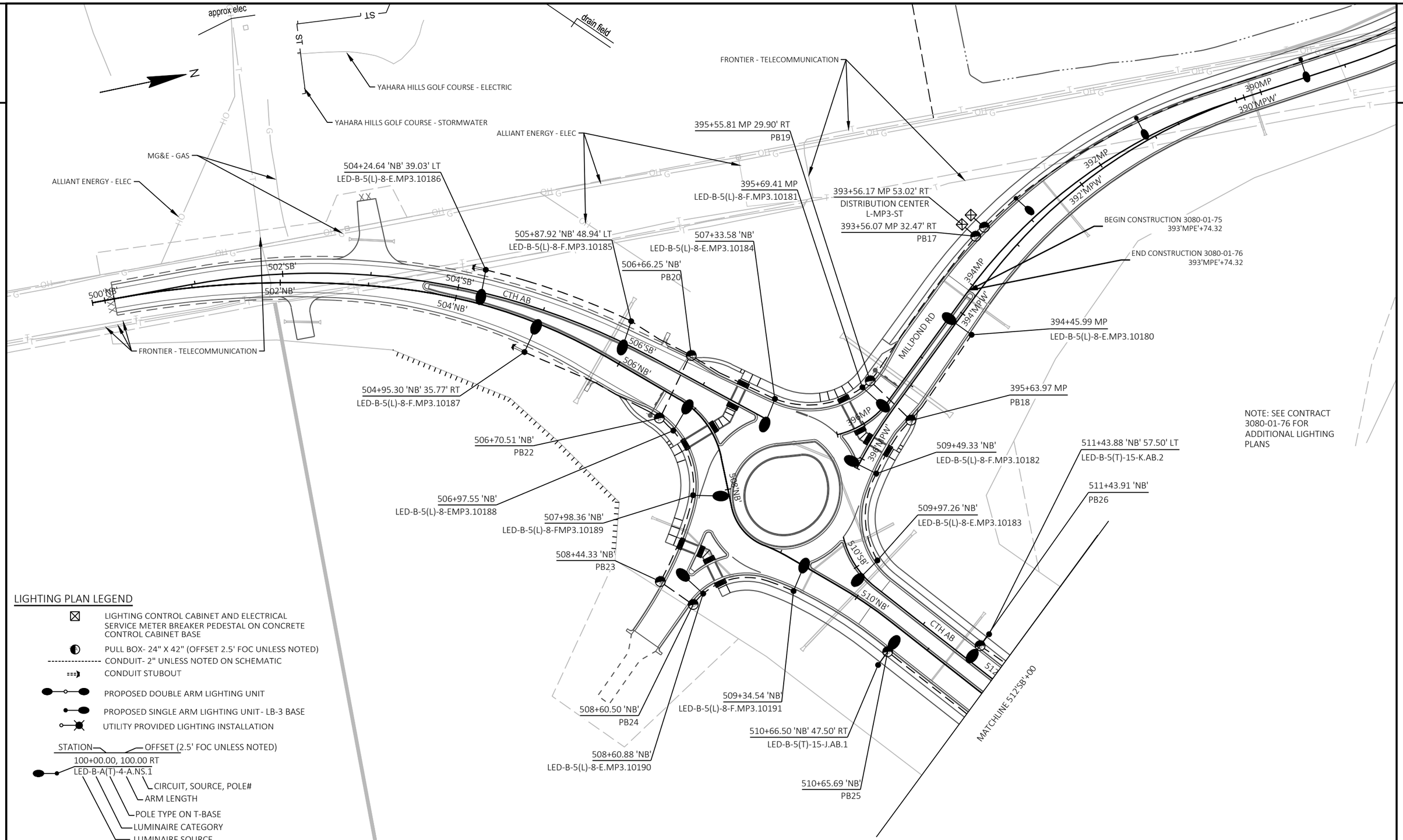
SIGNATURE: Amanda M. Johnson

DATE: 01/31/2022 SHEETS: 1 of 18

DESIGN DATA TABLE				
	Millpond & AB RAB	US 12-18 & AB On Ramp RAB	US 12-18 & AB Off Ramp RAB	Madison Millpond RAB
Average Maintained Illuminance	1.52 fc	1.49 fc	1.50 fc	1.52 fc
Light Loss Factor (LLF)	0.85	0.9	0.9	0.85
Uniformity Ratio	2.5:1	3:1	2.5:1	3:1



TYPICAL LIGHT POLE PLACEMENT
STA. 510+66 'NB' TO STA. 538+65 'NB'
UNLESS OTHERWISE NOTED



LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT- LB-3 BASE
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)

100+00.00, 100.00 RT

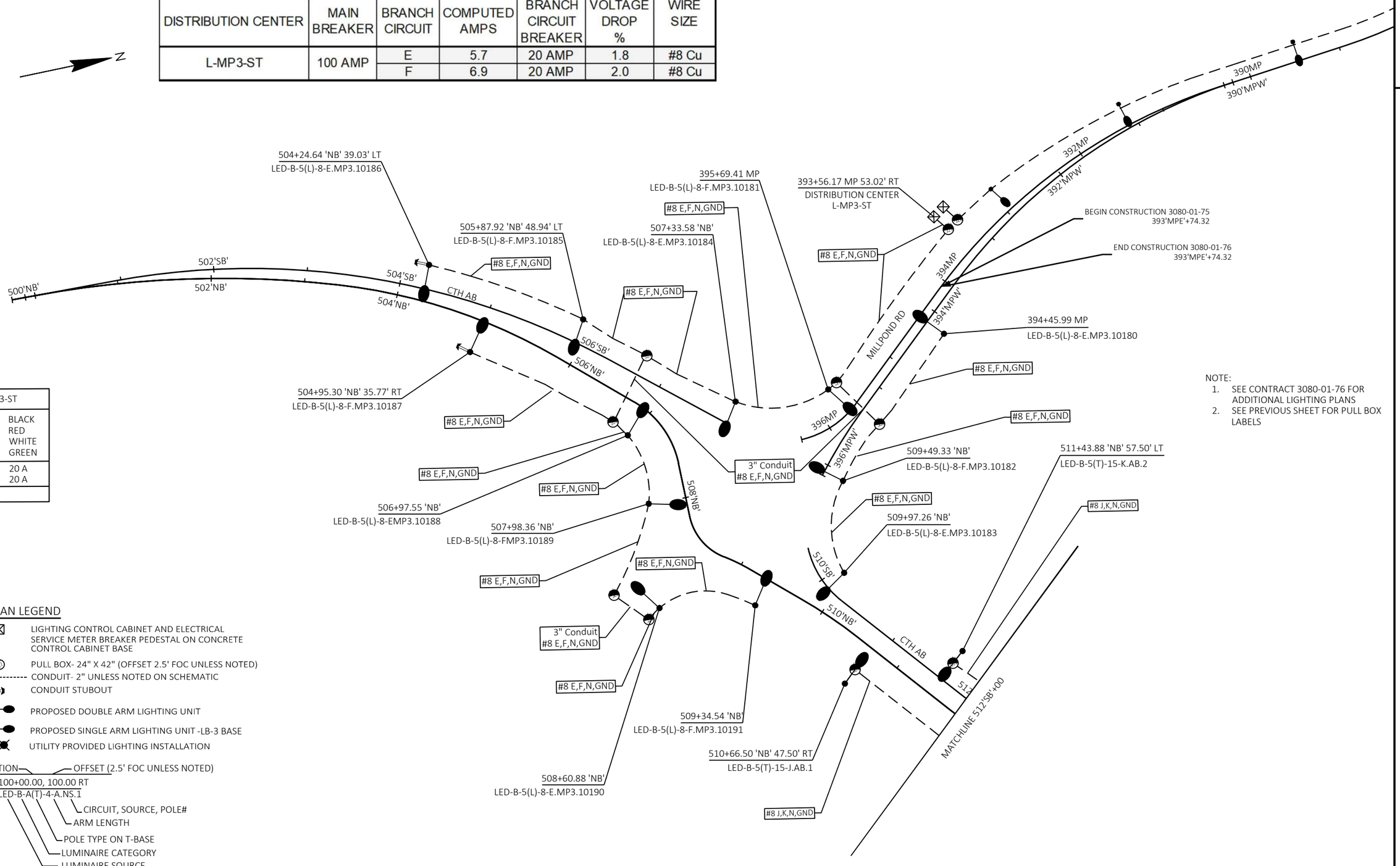
LED-B-A(T)-4-A.NS.1

- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

PROJECT NO: 3080-01-75	HWY: USH 12/18	COUNTY: DANE	PROPOSED LIGHTING - CTH AB	SHEET 278	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023601_lp
PLOT DATE : 5/3/2022 3:48 PM
PLOT BY : HARRY TRAN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

DISTRIBUTION CENTER	MAIN BREAKER	BRANCH CIRCUIT	COMPUTED AMPS	BRANCH CIRCUIT BREAKER	VOLTAGE DROP %	WIRE SIZE
L-MP3-ST	100 AMP	E	5.7	20 AMP	1.8	#8 Cu
		F	6.9	20 AMP	2.0	#8 Cu



L-MP3-ST	
E	BLACK
F	RED
N	WHITE
GND	GREEN
E	20 A
F	20 A
240 VAC	

NOTE:
1. SEE CONTRACT 3080-01-76 FOR ADDITIONAL LIGHTING PLANS
2. SEE PREVIOUS SHEET FOR PULL BOX LABELS

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT -LB-3 BASE
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)
100+00.00, 100.00 RT
LED-B-A(T)-4-A.NS.1
- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

PROJECT NO: 3080-01-75	HWY: USH 12/18	COUNTY: DANE	LIGHTING PLAN SCHEMATIC - CTH AB	SHEET 279	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023602_lp
PLOT DATE : 5/3/2022 3:48 PM
PLOT BY : HARRY TRAN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTE:
1. SEE CONTRACT 3080-01-76 FOR ADDITIONAL LIGHTING PLANS
2. LIGHT POLES 15&17 ON BRIDGE TO BE LOCATED IN BRIDGE RAIL. SEE BRIDGE DETAILS SHEETS.

692+91.13 'A' 41.38' RT
LED-B-5(T)-15-J.AB.11
692+90.89 'A'
PB38
694+50.82 'A'
PB37
694+50.59 'A' 41.15' RT
LED-B-5(T)-15-K.AB.10
695+58.24 'A' 26.77' RT
PB36
695+45.37 'A'
PB35
513+09.37 'NB' 57.50' LT
LED-B-5(T)-15-J.AB.4
515+83.42 'NB' 10.00' LT
LED-B-5(T)-15-J.AB.9
513+07.66 'NB'
PB28
514+53.70 'NB' 54.91' LT
LED-B-5(T)-15-K.AB.6
514+50.69 'NB'
PB30
515+46.62 'NB'
PB33
514+01.41 'NB'
PB29
514+01.23 'NB' 63.54' RT
LED-B-5(T)-15-J.AB.5
515+47.47 'NB' 7.90' LT
PB32
515+40.02 'NB'
PB31
512+41.48 'NB'
PB27
515+34.70 'NB' 94.50' RT
LED-B-5(T)-15-K.AB.7
512+41.37 'NB' 50.55' RT
LED-B-5(T)-15-K.AB.3
697+64.90 'NB'
LED-B-5(T)-15-J.AB.8
516+88.09 'NB'
PB34
516+91.72 'NB' 105.27' RT
DISTRIBUTION CENTER
L-AB-ST
516+97.02 'NB' 100.72' RT
PB39
697+91.77 'NB' 5.02' LT
PB40
517+68.77 'NB'
PB41
517+69.61 'NB'
LED-B-5(T)-15-L.AB.14
518+68.67 'NB' 43.87' RT
PB42
518+74.44 'NB' 40.78' LT
PB43
518+34.90 'NB'
PB44
695+70.06 'A'
PB45
695+82.00 'A' 31.61' RT
LED-B-5(T)-15-K.AB.12
518+47.93 'NB' 68.64' LT
LED-B-5(T)-15-K.AB.13
520+77.37 'NB' 41.21' LT
PB47
520+29.92 'NB'
LED-B-5-15-M.AB.17
519+25.92 'NB'
LED-B-5-15-M.AB.15
520+84.89 'NB' 48.88' RT
PB46
521+55.15 'NB' 36.52' RT
PB49
521+64.86 'NB' 53.76' RT
LED-B-5(T)-15-L.AB.16
521+25.46 'NB' 89.24' LT
LED-B-5(T)-15-L.AB.18
521+32.28 'NB' 78.59' LT
PB50
526+34.26 'NB' 115.04' LT
LED-B-5(T)-15-L.AB.20
525+94.68 'NB' 115.06' LT
PB54
526+82.57 'NB' 175.81' LT
PB52
521+44.57 'NB' 161.34' LT
PB51
523+75.90 'NB' 142.64' LT
PB53
526+48.33 'NB'
LED-B-5(T)-15-M.AB.19
527+69.65 'NB' 33.40' RT
LED-B-5(T)-15-P.AB.29
527+70.35 'NB' 21.46' RT
PB66
526+65.51 'NB' 47.86' LT
PB55
526+68.17 'NB' 60.70' LT
LED-B-5(T)-15-M.AB.21
525+76.06 'NB' 28.00' RT
PB65
525+76.10 'NB' 34.00' RT
LED-B-5(T)-15-Q.AB.28
524+74.65 'NB' 28.00' RT
PB64
524+74.69 'NB' 34.00' RT
LED-B-5(T)-15-P.AB.27
524+09.12 'NB' 27.14' LT
PB63
524+11.29 'NB'
PB62
523+91.75 'NB' 26.15' LT
LED-B-5(T)-15-P.AB.26
798+50.02 'C'
PB57
798+69.78 'C'
PB59
798+46.61 'C' 31.27' LT
LED-B-5(T)-15-L.AB.23
798+59.54 'C' 30.90' LT
PB58
799+95.10 'C' 39.47' LT
LED-B-5(T)-15-L.AB.24
799+94.81 'C'
PB60
801+55.78 'C'
PB61
801+55.15 'C' 43.95' LT
LED-B-5(T)-15-M.AB.25

MATCHLINE 512'SB'+00
MATCHLINE 528'NB'+00
USH 12/18
EB EXIT RAMP
694'A'
J.AB.12
BEGIN CONSTRUCTION 3080-01-75
695'A'+11.51
END CONSTRUCTION 3080-01-76
695'A'+11.51
WB ENTRANCE RAMP
996'D'
CTH AB
526'SB'
526'NB'
512'SB'
512'NB'
514'SB'
514'NB'
516'SB'
516'NB'
K.AB.9
518'NB'
520'SB'
520'NB'
522'NB'
524'SB'
524'NB'
Q.AB.26
M.AB.23
698'NB'
EB ENTRANCE RAMP
700'NB'
WB EXIT RAMP
800'C'
802'C'
BEGIN CONSTRUCTION 3080-01-76
799'C'+20.90
END CONSTRUCTION 3080-01-75
799'C'+20.90

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)
100+00.00, 100.00 RT
LED-B-A(T)-4-A.NS.1
CIRCUIT, SOURCE, POLE#
ARM LENGTH
POLE TYPE ON T-BASE
LUMINAIRE CATEGORY
LUMINAIRE SOURCE

PROJECT NO: 3080-01-75	HWY: USH 12/18	COUNTY: DANE	PROPOSED LIGHTING - CTH AB	SHEET 280	E

NOTE:
1. SEE CONTRACT 3080-01-76 FOR ADDITIONAL LIGHTING PLANS
2. SEE PREVIOUS SHEET FOR PULL BOX LABELS

692+91.13 'A' 41.38' RT
LED-B-5(T)-15-J.AB.11
#8 J,K,N,GND
USH 12/18
BEGIN CONSTRUCTION 3080-01-75
695'A'+11.51
END CONSTRUCTION 3080-01-76
695'A'+11.51
694+50.59 'A' 41.15' RT
LED-B-5(T)-15-K.AB.10
#8 J,K,N,GND
EB EXIT RAMP
694'A'
J.AB.12
695+82.00 'A' 31.61' RT
LED-B-5(T)-15-K.AB.12
994'D'
WB ENTRANCE RAMP
526+34.26 'NB' 115.04' LT
LED-B-5(T)-15-L.AB.20
MATCHLINE 528'NB'+00
527+69.65 'NB' 33.40' RT
LED-B-5(T)-15-P.AB.29
#6 P,Q,N,GND
#6 L,M,N,GND
513+09.37 'NB' 57.50' LT
LED-B-5(T)-15-J.AB.4
695+45.37 'A'
PB35
3" Conduit
#8 J,K,N,GND
521+25.46 'NB' 89.24' LT
LED-B-5(T)-15-L.AB.18
526+68.17 'NB' 60.70' LT
LED-B-5(T)-15-M.AB.21
CTH AB
526'SB'
526'NB'
525+76.10 'NB' 34.00' RT
LED-B-5(T)-15-Q.AB.28
515+83.42 'NB' 10.00' LT
LED-B-5(T)-15-J.AB.9
#8 J,K,N,GND
#6 L,M,N,GND
3" Conduit
#6 L,M,N,GND
MATCHLINE 512'SB'+00
514+53.70 'NB' 54.91' LT
LED-B-5(T)-15-K.AB.6
518+47.93 'NB' 68.64' LT
LED-B-5(T)-15-K.AB.13
'SB'
512'NB'
514'SB'
514'NB'
CTH AB
516'SB'
K.AB.9
516'NB'
520+29.92 'NB'
LED-B-5-15-M.AB.17
524'SB'
Q.AB.26
520'SB'
520'NB'
518'NB'
CTH AB
522'NB'
524'NB'
526+48.33 'NB'
LED-B-5(T)-15-M.AB.19
524+74.69 'NB' 34.00' RT
LED-B-5(T)-15-P.AB.27
514+01.23 'NB' 63.54' RT
LED-B-5(T)-15-J.AB.5
519+25.92 'NB'
LED-B-5-15-M.AB.15
523+91.75 'NB' 26.15' LT
LED-B-5(T)-15-P.AB.26
515+34.70 'NB' 94.50' RT
LED-B-5(T)-15-K.AB.7
512+41.37 'NB' 50.55' RT
LED-B-5(T)-15-K.AB.3
697+64.90 'NB'
LED-B-5(T)-15-J.AB.8
698'NB'
517+69.61 'NB'
LED-B-5(T)-15-L.AB.14
521+64.86 'NB' 53.76' RT
LED-B-5(T)-15-L.AB.16
798+46.61 'C' 31.27' LT
LED-B-5(T)-15-L.AB.23
M.AB.23
WB EXIT RAMP
799+95.10 'C' 39.47' LT
LED-B-5(T)-15-L.AB.24
EB ENTRANCE RAMP
700'NB'
USH 12/18
800'C'
BEGIN CONSTRUCTION 3080-01-76
799'C'+20.90
END CONSTRUCTION 3080-01-75
799'C'+20.90
801+55.15 'C' 43.95' LT
LED-B-5(T)-15-M.AB.25
802'C'

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)
100+00.00, 100.00 RT
LED-B-A(T)-4-A.NS.1
- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

DISTRIBUTION CENTER	MAIN BREAKER	BRANCH CIRCUIT	COMPUTED AMPS	BRANCH CIRCUIT BREAKER	VOLTAGE DROP %	WIRE SIZE
L-AB-ST	100 AMP	J	8.0	20 AMP	1.5	#8 Cu
		K	9.1	20 AMP	1.8	#8 Cu
		L	8.0	20 AMP	2.6	#6 Cu
		M	6.9	20 AMP	2.2	#6 Cu
		P	5.7	20 AMP	3.5	#6 Cu
		Q	5.7	20 AMP	4.7	#6 Cu

L-AB-ST	
J, L, P	BLACK
K, M, Q	RED
N	WHITE
GND	GREEN
J, L, P	20 A
K, M, Q	20 A
240 VAC	

PROJECT NO: 3080-01-75	HWY: USH 12/18	COUNTY: DANE	LIGHTING PLAN SCHEMATIC - CTH AB	SHEET 281	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023604_lp
PLOT DATE : 5/3/2022 3:48 PM PLOT BY : HARRY TRAN PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)

100+00.00, 100.00 RT
LED-B-A(T)-4-A.NS.1

- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

NOTE: SEE CONTRACT 3080-01-76 FOR ADDITIONAL LIGHTING PLANS

N

FRONTIER - TELECOMMUNICATIONS
FRONTIER - FIBER
ALLIANT ENERGY - ELEC
ALLIANT ENERGY - GAS
MUFN - FIBER
CTH AB
540'NB'
538'NB'
536'NB'
534'NB'
532'NB'
530'NB'
538+64.37 'NB' 27.67' RT
LED-B-5(T)-8-Q.AB.34
538+26.48 'NB' 25.79' RT
PB71
536+31.05 'NB' 42.00' RT
LED-B-5(T)-8-P.AB.33
536+31.26 'NB' 36.00' RT
PB70
534+40.37 'NB' 39.80' RT
LED-B-5(T)-8-Q.AB.32
534+41.58 'NB' 34.09' RT
PB69
532+23.17 'NB' 27.00' RT
LED-B-5(T)-8-P.AB.31
532+23.41 'NB' 20.74' RT
PB68
530+28.83 'NB' 27.00' RT
LED-B-5(T)-8-Q.AB.30
530+28.94 'NB' 20.78' RT
PB67
529+01.10 'NB' 27.03' LT
PB56
529+01.63 'NB'
LED-B-5(T)-8-L.AB.22
MATCHLINE 528'NB'+00
WisDOT ITS - FIBER
FRONTIER - TELECOMMUNICATION
FRONTIER - FIBER
ALLIANT ENERGY - GAS
ALLIANT ENERGY - ELEC
MG&E - GAS
MAAHIC WAY
MILLPOND RD
USH 12/18
WB ENTRANCE RAMP
482LD
484LD
486LD
982'D'
984'D'
986'D'
988'D'
990'D'
992'D'
994'D'
682'A'
684'A'
686'A'
688'A'
690'A'
382MP
384MP
386MP

PROJECT NO: 3080-01-75	HWY: USH 12/18	COUNTY: DANE	PROPOSED LIGHTING - CTH AB	SHEET 282	E

2

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)

100+00.00, 100.00 RT

LED-B-A(T)-4-A.NS.1

- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

N

NOTE:
1. SEE CONTRACT 3080-01-76 FOR ADDITIONAL LIGHTING PLANS
2. SEE PREVIOUS SHEET FOR PULL BOX LABELS

CTH AB

540'NB'

538'NB'

538+64.37 'NB' 27.67' RT
LED-B-5(T)-8-Q.AB.34

#6 P,Q,N,GND

536+31.05 'NB' 42.00' RT
LED-B-5(T)-8-P.AB.33

534+40.37 'NB' 39.80' RT
LED-B-5(T)-8-Q.AB.32

532+23.17 'NB' 27.00' RT
LED-B-5(T)-8-P.AB.31

530+28.83 'NB' 27.00' RT
LED-B-5(T)-8-Q.AB.30

#6 P,Q,N,GND

#6 P,Q,N,GND

#6 P,Q,N,GND

#6 P,Q,N,GND

536'NB'

534'NB'

532'NB'

530'NB'

CTH AB

529+01.63 'NB'
LED-B-5(T)-8-L.AB.22

#6 L,M,N,GND

MATCHLINE 528'NB'+00

482LD

MAAHIC WAY

484LD

486LD

982'D'

984'D'

986'D'

988'D'

990'D'

992'D'

994'D'

USH 12/18

682'A'

684'A'

686'A'

688'A'

690'A'

382MP

384MP

386MP

MILLPOND RD

WB ENTRANCE RAMP

USH 12/18

PROJECT NO: 3080-01-75	HWY: USH 12/18	COUNTY: DANE	LIGHTING PLAN SCHEMATIC- CTH AB	SHEET 283	E

2

N

AT&T - FIBER
AT&T - TEL

MG&E - ELEC
CHARTER - TEL
AT&T - FIBER
AT&T - TEL
(ON SAME POLE)

AT&T - FIBER

434LD

MG&E - ELEC

32E

MG&E - GAS

CHARTER - FIBER

MG&E - ELEC

MG&E - GAS

CITY OF MADISON - SEWER

CITY OF MADISON - SEWER

MADISON WATER - WATER

AT&T - FIBER
AT&T - TEL

MG&E - ELEC
CHARTER - TELECOMMUNICATION(ON SAME POLE)

34E

MG&E - ELEC

FHR - GAS

325+31.89 MP 45.78' LT
DISTRIBUTION CENTER
L-MP1-ST

325+33.68 MP 22.24' LT
PB1

MADISON WATER - WATER

MADISON WATER - WATER

FHR - GAS

324MP

326MP

326+99.00 MP
LED-A-5(L)-8-B.MP1.10136

CITY OF MADISON - LIGHTING

MILLPOND RD

328MP

325+26.86 MP
LED-A-5(L)-8-A.MP1.10135

322MP

MADISON WATER - WATER

330+59.58 MP
PB3

331+59.21 MP
LED-A-5(L)-8-A.MP1.10139

335+17.08 MP
LED-A-5(L)-8-A.MP1.10141

MG&E - GAS

MG&E - ELEC

325+39.93 MP
PB2

328+47.76 MP
LED-A-5(L)-8-A.MP1.10137

330MP

334MP

332MP

MATCHLINE 336+00

329+96.41 MP
LED-A-5(L)-8-B.MP1.10138

333+22.28 MP
LED-A-5(L)-8-B.MP1.10140

MMSD - SEWER

CITY OF MADISON PARKS/
YAHARA HILLS GOLF COURSE - SAN

MMSD 18"RCP san

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT-LB-3 BASE
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)
100+00.00, 100.00 RT
LED-B-A(T)-4-A.NS.1
- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

NOTE: SEE CONTRACT 3080-01-75 FOR ADDITIONAL LIGHTING PLANS

PROJECT NO: 3080-01-76	HWY: USH 12/18	COUNTY: DANE	PROPOSED LIGHTING - MILLPOND RD	SHEET 284	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023607_lp
PLOT DATE : 5/24/2022 11:29 AM
PLOT BY : HARRY TRAN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT
- UTILITY PROVIDED LIGHTING INSTALLATION

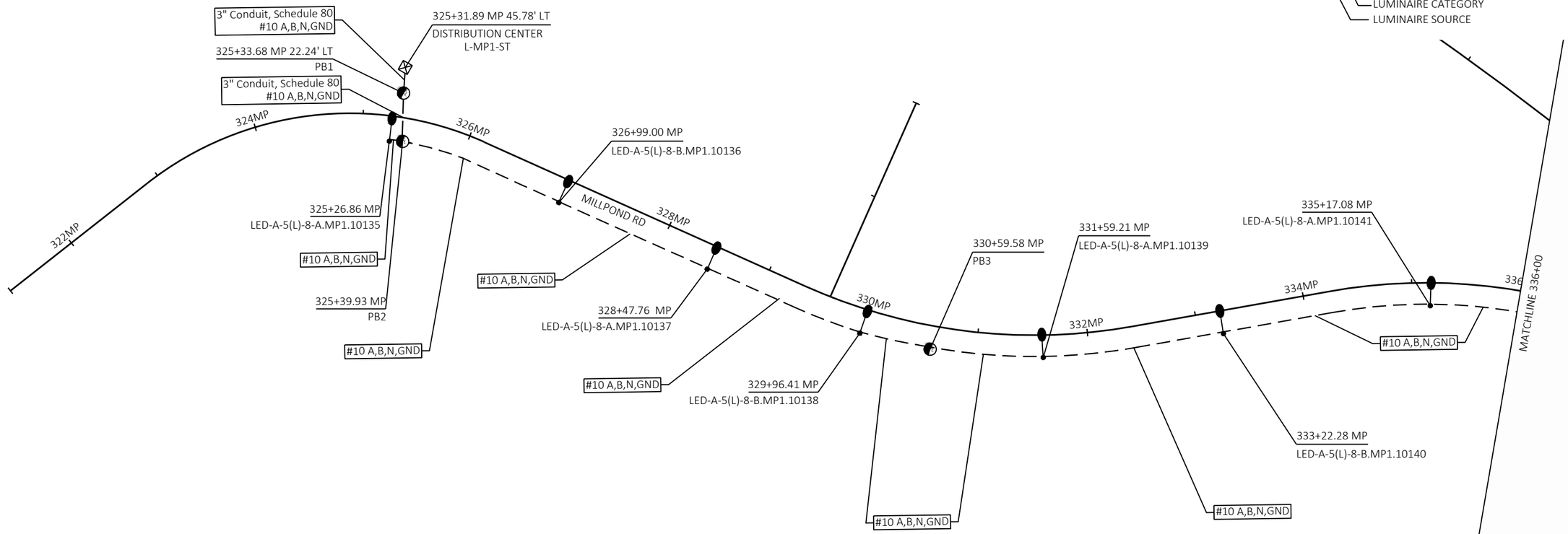
-LB-3 BASE

STATION — OFFSET (2.5' FOC UNLESS NOTED)

100+00.00, 100.00 RT

LED-B-A(T)-4-A.NS.1

- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE



L-MP1-ST	
A	BLACK
B	RED
N	WHITE
GND	GREEN
A	20 A
B	20 A
240 VAC	

NOTE: SEE CONTRACT 3080-01-75 FOR ADDITIONAL LIGHTING PLANS

PROJECT NO: 3080-01-76	HWY: USH 12/18	COUNTY: DANE	LIGHTING PLAN SCHEMATIC - MILLPOND RD	SHEET 285	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 023608_lp
PLOT DATE : 5/3/2022 4:46 PM
PLOT BY : HARRY TRAN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

MADISON WATER - WATER

436LD

438LD

440LD

442LD

444LD

446LD

448LD

450LD

FHR - GAS

ANR PIPELINE - GAS

ABANDONED SEWER

MG&E - ELEC

MUFN - FIBER

CITY OF MADISON COMMUNICATION

FRONTIER - TELECOMMUNICATION

CITY OF MADISON - LIGHTING

WISDOT ITS

ABANDONED SEWER

USH 12/18

MG&E - GAS

FHR - GAS

36E

38E

40E

42E

44E

40+57.83 E 21.46' RT
LED-B-5(T)-15-A.MP1.10151

42+43.01 E 18.49' RT
LED-B-5(T)-15-B.MP1.10150

44+40.10 E 12.43' RT
LED-B-5(T)-15-A.MP1.10149

44+91.92 E 9.36' RT
LED-B-5(T)-8-B.MP1.10148

345+36.09 MP 56.28' LT
PB10

345+80.05 MP 35.21' LT
PB11

346+00.60 MP
LED-B-5(T)-8-A.MP1.10152

345+98.31 MP 11.52' RT
PB12

348+76.57 MP 35.66' RT
PB15

MG&E - ELEC

MATCHLINE 336+00

MP

338MP

MILLPOND RD

340MP

337+07.99 MP
LED-A-5(L)-8-B.MP1.10142

339+03.85 MP
LED-A-5(L)-8-A.MP1.10143

MADISON WATER - WATER

341+00.01 MP
LED-A-5(L)-8-B.MP1.10144

342MP

342+10.94 MP
PB4

342+48.27 MP
LED-A-5(L)-8-A.MP1.10145

343+22.37 MP
PB5

CITY OF MADISON - LIGHTING

344+47.56 MP
LED-B-5(T)-8-A.MP1.10147

45+12.25 E
PB9

344+36.95 MP
PB8

344+33.19 MP 7.06' RT
PB7

344MP

344ME

344+15.13 MP 37.97' RT
LED-B-5(T)-8-B.MP1.10146

344+28.99 MP 41.81' RT
PB6

344+93.58 MP
PB13

345+42.09 MP
LED-B-5(T)-8-A.MP1.10153

346MP

346ME

346+08.85 MP
PB14

348MP

348ME

347+32.51 MP
LED-B-5(L)-8-B.MP1.10154

349+58.42 MP
LED-A-5(L)-8-A.MP1.10155

350MP

MATCHLINE 350+50

MG&E - GAS

MUFN - FIBER

MADISON WATER - WATER

MG&E - ELEC

YAHARA HILLS GOLF COURSE - SAN

fuel tank

NOTE: SEE CONTRACT 3080-01-75 FOR ADDITIONAL LIGHTING PLANS

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT-LB-3 BASE
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)

100+00.00, 100.00 RT
LED-B-A(T)-4-A.NS.1

- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

PROJECT NO: 3080-01-76	HWY: USH 12/18	COUNTY: DANE	PROPOSED LIGHTING - MILLPOND RD	SHEET 286	E

2

N

436LD 438LD 440LD 442LD 444LD 446LD 448LD 450LD

USH 12/18

36E 38E 40E 42E 44E

MATCHLINE 336+00

MATCHLINE 350+50

MILLPOND RD

338MP 340MP 342MP 344MP 346MP 348MP 350MP

346ME 348ME 344ME

#10 A,B,N,GND

337+07.99 MP
LED-A-5(L)-8-B.MP1.10142

339+03.85 MP
LED-A-5(L)-8-A.MP1.10143

40+57.83 E 21.46' RT
LED-B-5(T)-15-A.MP1.10151

42+43.01 E 18.49' RT
LED-B-5(T)-15-B.MP1.10150

44+91.92 E 9.36' RT
LED-B-5(T)-8-B.MP1.10148

44+40.10 E 12.43' RT
LED-B-5(T)-15-A.MP1.10149

45+12.25 E
PB9

344+47.56 MP
LED-B-5(T)-8-A.MP1.10147

344+36.95 MP
PB8

3" Conduit, Schedule 80
#10 A,B,N,GND

345+36.09 MP 56.28' LT
PB10

345+80.05 MP 35.21' LT
PB11

346+00.60 MP
LED-B-5(T)-8-A.MP1.10152

345+98.31 MP 11.52' RT
PB12

346+08.85 MP
PB14

345+42.09 MP
LED-B-5(T)-8-A.MP1.10153

344+93.58 MP
PB13

344+28.99 MP 41.81' RT
PB6

348+76.57 MP 35.66' RT
PB15

347+32.51 MP
LED-B-5(L)-8-B.MP1.10154

349+58.42 MP
LED-A-5(L)-8-A.MP1.10155

344+33.19 MP 7.06' RT
PB7

341+00.01 MP
LED-A-5(L)-8-B.MP1.10144

342+10.94 MP
PB4

342+48.27 MP
LED-A-5(L)-8-A.MP1.10145

343+22.37 MP
PB5

344+15.13 MP 37.97' RT
LED-B-5(T)-8-B.MP1.10146

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT-LB-3 BASE
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)
100+00.00, 100.00 RT
LED-B-A(T)-4-A.NS.1
- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

NOTE: SEE CONTRACT 3080-01-75 FOR ADDITIONAL LIGHTING PLANS

PROJECT NO: 3080-01-76	HWY: USH 12/18	COUNTY: DANE	LIGHTING PLAN SCHEMATIC - MILLPOND RD	SHEET 287	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 0236010_lp

PLOT DATE : 5/3/2022 4:24 PM PLOT BY : HARRY TRAN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MG&E -ELEC

MUFN - FIBER

452LD 454LD 456LD 458LD 460LD 462LD 464LD

ABANDONED SEWER

FRONTIER - TELECOMMUNICATION

WISDOT ITS

960'D' 962'D' 964'D'

USH 12/18

MATCHLINE 350+50

353+17.31 MP
LED-A-5(L)-8-C.MP2.10157

352MP 354MP 356MP 358MP 360MP 362MP 364MP

MILLPOND RD

MATCHLINE 365+00

355+00.47 MP
LED-A-5(L)-8-D.MP2.10158

356+77.22 MP
LED-A-5(L)-8-C.MP2.10159

360+30.61 MP
LED-A-5(L)-8-C.MP2.10161

362+19.47 MP
LED-A-5(L)-8-D.MP2.10162

363+99.29 MP
LED-A-5(L)-8-C.MP2.10163

2x2"PVC for future elec per 1992 as-built

2x2"PVC for future elec per 1992 as-built

2x2"PVC for future elec per 1992 as-built

MG&E - GAS

MG&E - ELEC

FRONTIER - TELECOMMUNICATION

351+37.59 MP
LED-A-5(L)-8-C.MP2.10156

358+60.50 MP
LED-A-5(L)-8-D.MP2.10160

YAHARA HILL GOLF COURSE - WATER

YAHARA HILL GOLF COURSE - STORM

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT -LB-3 BASE
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)

100+00.00, 100.00 RT

LED-B-A(T)-4-A.NS.1

- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

NOTE: SEE CONTRACT 3080-01-75 FOR ADDITIONAL LIGHTING PLANS

PROJECT NO: 3080-01-76	HWY: USH 12/18	COUNTY: DANE	PROPOSED LIGHTING - MILLPOND RD	SHEET 288	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 0236011_lp

PLOT DATE : 5/3/2022 3:50 PM PLOT BY : HARRY TRAN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

452LD 454LD 456LD 458LD 460LD 462LD 464LD

960'D' 962'D' 964'D'

MATCHLINE 350+50

MATCHLINE 365+00

USH 12/18

MILLPOND RD

352MP 354MP 356MP 358MP 360MP 362MP 364MP

351+37.59 MP
LED-A-5(L)-8-C.MP2.10156

353+17.31 MP
LED-A-5(L)-8-C.MP2.10157

355+00.47 MP
LED-A-5(L)-8-D.MP2.10158

356+77.22 MP
LED-A-5(L)-8-C.MP2.10159

358+60.50 MP
LED-A-5(L)-8-D.MP2.10160

360+30.61 MP
LED-A-5(L)-8-C.MP2.10161

362+19.47 MP
LED-A-5(L)-8-D.MP2.10162

363+99.29 MP
LED-A-5(L)-8-C.MP2.10163

#10 C,D,N,GND

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT -LB-3 BASE
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)
100+00.00, 100.00 RT
LED-B-A(T)-4-A.NS.1
CIRCUIT, SOURCE, POLE#
ARM LENGTH
POLE TYPE ON T-BASE
LUMINAIRE CATEGORY
LUMINAIRE SOURCE

NOTE: SEE CONTRACT 3080-01-75 FOR ADDITIONAL LIGHTING PLANS

PROJECT NO: 3080-01-76	HWY: USH 12/18	COUNTY: DANE	LIGHTING PLAN SCHEMATIC - MILLPOND RD	SHEET 289	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 0236012_lp
PLOT DATE : 5/3/2022 3:50 PM
PLOT BY : HARRY TRAN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

466LD
468LD
470LD
472LD
474LD
476LD
478LD

966'D'
968'D'
970'D'
972'D'
974'D'
976'D'
978'D'

WISDOT ITS
MG&E - GAS
USH 12/18

MATCHLINE 365+00

366MP
368MP
370MP
372MP
374MP
376MP
378MP

MILLPOND RD
FRONTIER - TELECOMMUNICATIONS
MG&E - GAS

365+79.98 MP
LED-A-5(L)-8-D.MP2.10164

367+62.27 MP
LED-A-5(L)-8-C.MP2.10165

369+42.09 MP
LED-A-5(L)-8-D.MP2.10166

371+26.89 MP
LED-A-5(L)-8-C.MP2.10167

373+00.68 MP
LED-A-5(L)-8-D.MP2.10168

374+89.01 MP
LED-A-5(L)-8-C.MP2.10169.

376+64.63 MP
LED-A-5(L)-8-D.MP2.10170

378+46.54 MP
LED-A-5(L)-8-C.MP2.10171

FRONTIER - TELECOMMUNICATIONS
MG&E - GAS
FRONTIER - TELECOMMUNICATIONS

MATCHLINE 379+52

YAHARA HILLS GOLF COURSE - WATER
YAHARA HILLS GOLF COURSE - STORM
YAHARA HILLS GOLF COURSE - WATER
YAHARA HILLS GOLF COURSE - WATER
YAHARA HILLS GOLF COURSE - ELECTRIC
approx grounding grid

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT-LB-3 BASE
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)
100+00.00, 100.00 RT
LED-B-A(T)-4-A.NS.1
- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

NOTE: SEE CONTRACT 3080-01-75 FOR ADDITIONAL LIGHTING PLANS

PROJECT NO: 3080-01-76	HWY: USH 12/18	COUNTY: DANE	PROPOSED LIGHTING - MILLPOND RD	SHEET 290	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 0236013_lp
PLOT DATE : 5/3/2022 3:50 PM
PLOT BY : HARRY TRAN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

N

466LD 468LD 470LD 472LD 474LD 476LD 478LD

966'D' 968'D' 970'D' 972'D' 974'D' 976'D' 978'D'

USH 12/18

MILLPOND RD

MATCHLINE 365+00

MATCHLINE 379+52

#10 C,D,N,GND

366MP 368MP 370MP 372MP 374MP 376MP 378MP

365+79.98 MP
LED-A-5(L)-8-D.MP2.10164

367+62.27 MP
LED-A-5(L)-8-C.MP2.10165

369+42.09 MP
LED-A-5(L)-8-D.MP2.10166

371+26.89 MP
LED-A-5(L)-8-C.MP2.10167

373+00.68 MP
LED-A-5(L)-8-D.MP2.10168

374+89.01 MP
LED-A-5(L)-8-C.MP2.10169

376+64.63 MP
LED-A-5(L)-8-D.MP2.10170

378+46.54 MP
LED-A-5(L)-8-C.MP2.10171

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)
100+00.00, 100.00 RT
LED-B-A(T)-4-A.NS.1
- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

NOTE: SEE CONTRACT 3080-01-75 FOR ADDITIONAL LIGHTING PLANS

PROJECT NO: 3080-01-76	HWY: USH 12/18	COUNTY: DANE	LIGHTING PLAN SCHEMATIC - MILLPOND RD	SHEET 291	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 0236014_lp
PLOT DATE : 5/3/2022 3:51 PM
PLOT BY : HARRY TRAN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)
100+00.00, 100.00 RT
LED-B-A(T)-4-A.NS.1
- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

NOTE: SEE CONTRACT 3080-01-75 FOR ADDITIONAL LIGHTING PLANS

N

MAAHIC WAY

USH 12/18

MILLPOND RD

480LD
484LD
487LD
980'D'
982'D'
984'D'
986'D'
681'A'
684'A'
686'A'
688'A'
690'A'
692'

380MP
381MP
382MP
384MP
386MP
388MP
390'MPW'
390MP
392'MPW'
392MP
394'MPW'
394MP

380+24.36 MP
LED-A-5(L)-8-D.MP2.10172

381+92.52 MP
LED-A-5(L)-8-C.MP2.10173

383+81.76 MP
LED-A-5(L)-8-D.MP2.10174

385+73.28 MP
LED-A-5(L)-8-C.MP2.10175

387+60.47 MP
LED-A-5(L)-8-D.MP2.10176

389+45.55 MP
LED-A-5(L)-8-C.MP2.10177

391+39.45 MP,
LED-A-5(L)-8-D.MP2.10178

392+96.63 MP
LED-A-5(L)-8-C.MP2.10179

393+41.85 MP 31.91' RT
PB16

393+42.75 MP 52.63' RT
DISTRIBUTION CENTER
L-MP2-ST

BEGIN CONSTRUCTION 0380-01-75
393'MPE'+74.19

END CONSTRUCTION 0380-01-76
393'MPE'+74.19

PROJECT NO: 3080-01-76	HWY: USH 12/18	COUNTY: DANE	PROPOSED LIGHTING - MILLPOND RD	SHEET 292	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 0236015_lp
PLOT DATE : 5/3/2022 3:51 PM
PLOT BY : HARRY TRAN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- PULL BOX- 24" X 42" (OFFSET 2.5' FOC UNLESS NOTED)
- CONDUIT- 2" UNLESS NOTED ON SCHEMATIC
- CONDUIT STUBOUT
- PROPOSED DOUBLE ARM LIGHTING UNIT
- PROPOSED SINGLE ARM LIGHTING UNIT-LB-3 BASE
- UTILITY PROVIDED LIGHTING INSTALLATION

STATION — OFFSET (2.5' FOC UNLESS NOTED)

100+00.00, 100.00 RT
LED-B-A(T)-4-A.NS.1

- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

NOTE: SEE CONTRACT 3080-01-75 FOR ADDITIONAL LIGHTING PLANS

480LD
482LD
484LD
MAAHIC WAY
USH 12/18
MILLPOND RD
MATCHLINE 379+52
980'D'
982'D'
984'D'
986'D'
682'A'
684'A'
686'A'
688'A'
690'A'
380MP
382MP
384MP
386MP
388MP
390MP
390'MPW'
392MP
392'MPW'
394MP
394'MPW'

#10 C,D,N,GND

380+24.36 MP
LED-A-5(L)-8-D.MP2.10172

381+92.52 MP
LED-A-5(L)-8-C.MP2.10173

383+81.76 MP
LED-A-5(L)-8-D.MP2.10174

385+73.28 MP
LED-A-5(L)-8-C.MP2.10175

387+60.47 MP
LED-A-5(L)-8-D.MP2.10176

389+45.55 MP
LED-A-5(L)-8-C.MP2.10177

391+39.45 MP,
LED-A-5(L)-8-D.MP2.10178

392+96.63 MP
LED-A-5(L)-8-C.MP2.10179

393+41.85 MP 31.91' RT
PB16

393+42.75 MP 52.63' RT
DISTRIBUTION CENTER
L-MP2-ST

BEGIN CONSTRUCTION 0380-01-75
393'MPE'+74.19

END CONSTRUCTION 0380-01-76
393'MPE'+74.19

L-MP2-ST	
C	BLACK
D	RED
N	WHITE
GND	GREEN
C	20 A
D	20 A
240 VAC	

PROJECT NO: 3080-01-76	HWY: USH 12/18	COUNTY: DANE	LIGHTING PLAN SCHEMATIC - MILLPOND RD	SHEET 293	E

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\023601_LP.DWG
LAYOUT NAME - 0236016_lp
PLOT DATE : 5/3/2022 3:51 PM
PLOT BY : HARRY TRAN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

INDEX OF SHEETS: PERMANENT PAVEMENT MARKING

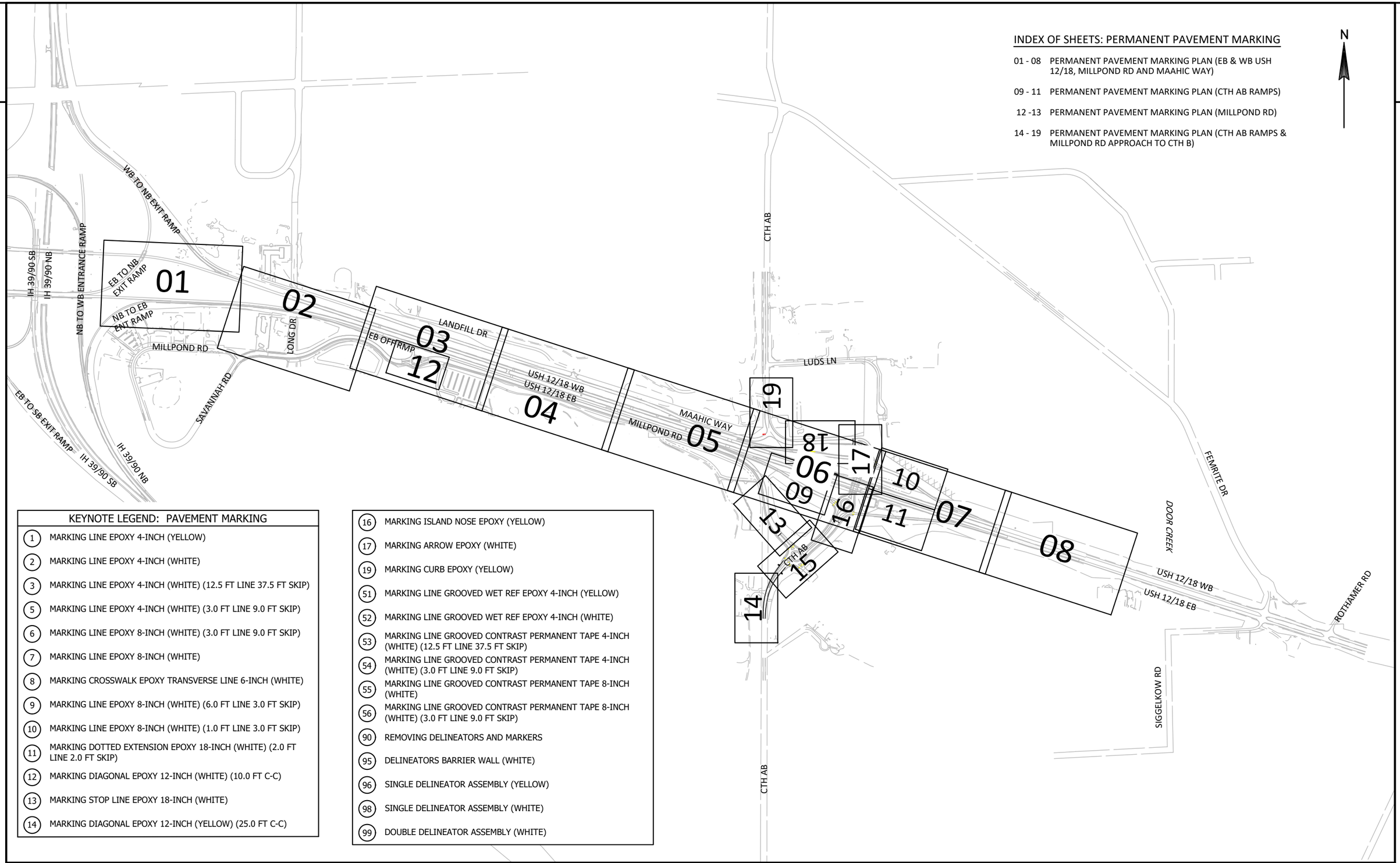
01 - 08 PERMANENT PAVEMENT MARKING PLAN (EB & WB USH 12/18, MILLPOND RD AND MAAHIC WAY)

09 - 11 PERMANENT PAVEMENT MARKING PLAN (CTH AB RAMPS)

12 -13 PERMANENT PAVEMENT MARKING PLAN (MILLPOND RD)

14 - 19 PERMANENT PAVEMENT MARKING PLAN (CTH AB RAMPS & MILLPOND RD APPROACH TO CTH B)

N



KEYNOTE LEGEND: PAVEMENT MARKING

1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
3	MARKING LINE EPOXY 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
5	MARKING LINE EPOXY 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
6	MARKING LINE EPOXY 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
7	MARKING LINE EPOXY 8-INCH (WHITE)
8	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
9	MARKING LINE EPOXY 8-INCH (WHITE) (6.0 FT LINE 3.0 FT SKIP)
10	MARKING LINE EPOXY 8-INCH (WHITE) (1.0 FT LINE 3.0 FT SKIP)
11	MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) (2.0 FT LINE 2.0 FT SKIP)
12	MARKING DIAGONAL EPOXY 12-INCH (WHITE) (10.0 FT C-C)
13	MARKING STOP LINE EPOXY 18-INCH (WHITE)
14	MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25.0 FT C-C)

16	MARKING ISLAND NOSE EPOXY (YELLOW)
17	MARKING ARROW EPOXY (WHITE)
19	MARKING CURB EPOXY (YELLOW)
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
53	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
54	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
55	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
56	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
90	REMOVING DELINEATORS AND MARKERS
95	DELINEATORS BARRIER WALL (WHITE)
96	SINGLE DELINEATOR ASSEMBLY (YELLOW)
98	SINGLE DELINEATOR ASSEMBLY (WHITE)
99	DOUBLE DELINEATOR ASSEMBLY (WHITE)

2

N

WB TO NB EXIT RAMP

USH 12/18 WB

EB TO NB EXIT RAMP

RIPRAP

KEYNOTE LEGEND: PAVEMENT MARKING	
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
53	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
56	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
90	REMOVING DELINEATORS AND MARKERS
98	SINGLE DELINEATOR ASSEMBLY (WHITE)

BEGIN EB PAVEMENT MARKING
STA 122+47'EB'
MATCH EXISTING EDGELINES
MATCH EXISTING CYCLES

116'EB' 118'EB' 120'EB' 122'EB' 124

USH 12/18 EB

+58 +47

12'-12'-12'

124+00'EB'

51 56 53 52 90 90 98 90

EXISTING DELINEATOR TO REMAIN

NB TO EB ENTRANCE RAMP

SIGN

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT PAVEMENT MARKING	PAGE 01 OF 19	SHEET 295	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024501-PM (PVMT MRK - USH 12-18).DWG PLOT DATE : 1/12/2022 4:05 PM PLOT BY : SEH LAYOUT NAME : 01 PLOT SCALE : 1.0 IN = 100.0 FT

2

BEGIN WB PAVEMENT MARKING
STA 129+94'WB'
MATCH EXISTING EDGELINES
MATCH EXISTING CYCLE

MAAHIC WAY

USH 12/18 WB

USH 12/18 EB

EB EXIT RAMP

LONG DR

MILLPOND RD

BEGIN MARKING
STA 327+15'MP'
MATCH EXISTING
CENTER AND EDGE
LINES

FILLER CAPS

CANOPY

SIGN

KEYNOTE LEGEND: PAVEMENT MARKING

1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
5	MARKING LINE EPOXY 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
8	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
15	MARKING CHEVRON EPOXY 24-INCH (WHITE)
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
53	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
55	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
56	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
90	REMOVING DELINEATORS AND MARKERS
98	SINGLE DELINEATOR ASSEMBLY (WHITE)
99	DOUBLE DELINEATOR ASSEMBLY (WHITE)

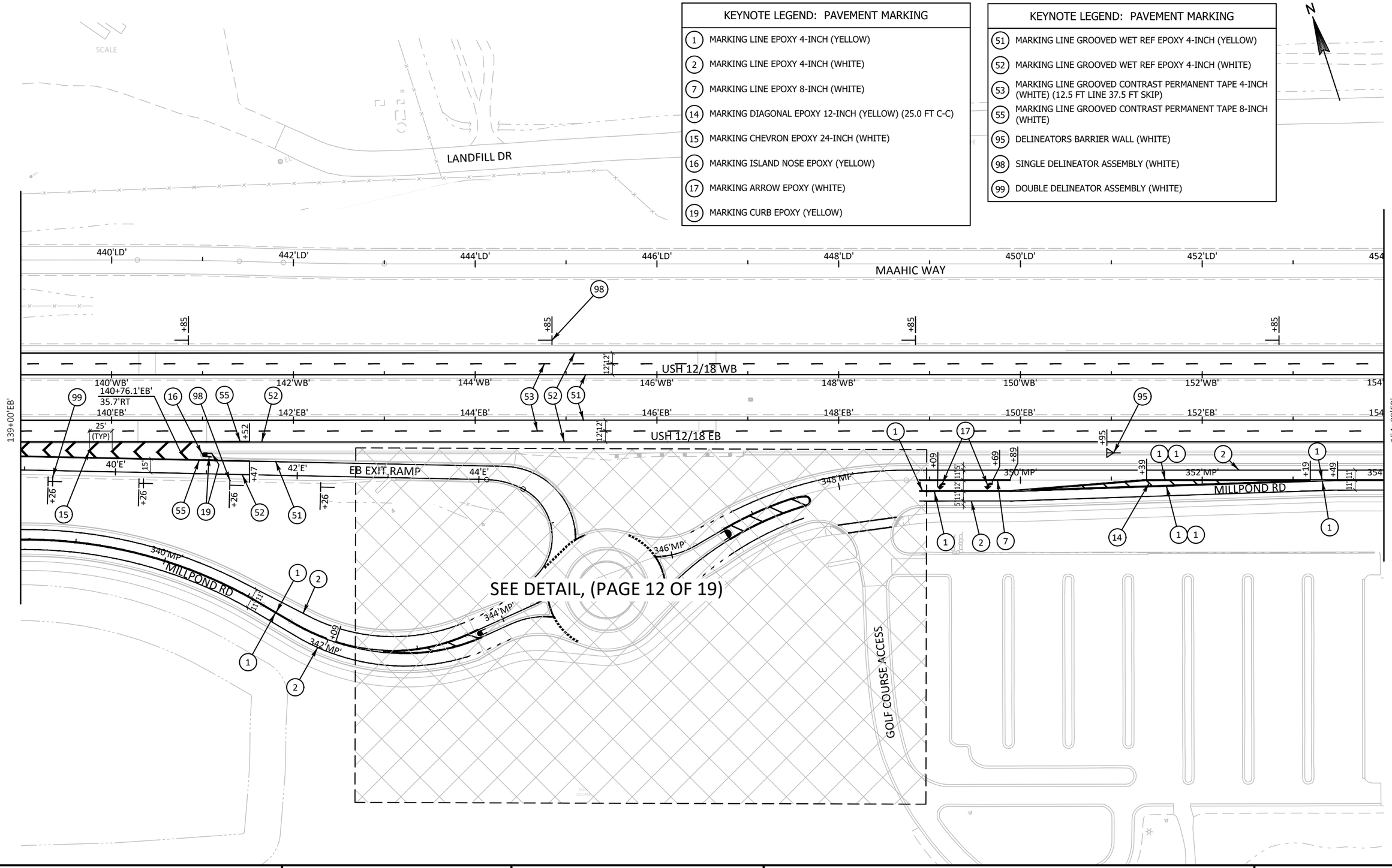
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT PAVEMENT MARKING	PAGE 02 OF 19	SHEET 296	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024501-PM (PVMT MRK - USH 12-18).DWG PLOT DATE : 5/25/2022 1:55 PM PLOT BY : SEH LAYOUT NAME : 02 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

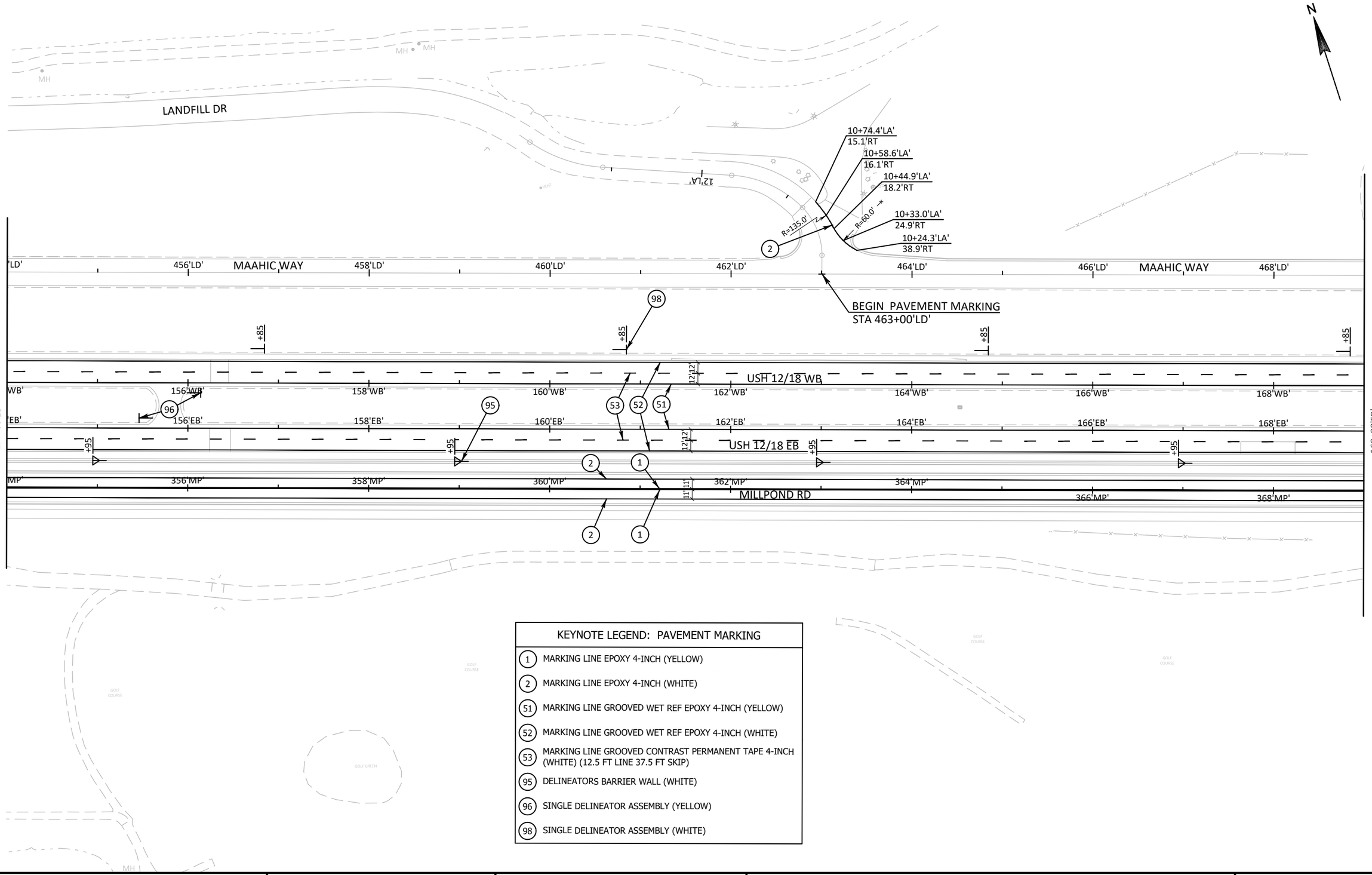
KEYNOTE LEGEND: PAVEMENT MARKING	
1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
7	MARKING LINE EPOXY 8-INCH (WHITE)
14	MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25.0 FT C-C)
15	MARKING CHEVRON EPOXY 24-INCH (WHITE)
16	MARKING ISLAND NOSE EPOXY (YELLOW)
17	MARKING ARROW EPOXY (WHITE)
19	MARKING CURB EPOXY (YELLOW)

KEYNOTE LEGEND: PAVEMENT MARKING	
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
53	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
55	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
95	DELINEATORS BARRIER WALL (WHITE)
98	SINGLE DELINEATOR ASSEMBLY (WHITE)
99	DOUBLE DELINEATOR ASSEMBLY (WHITE)



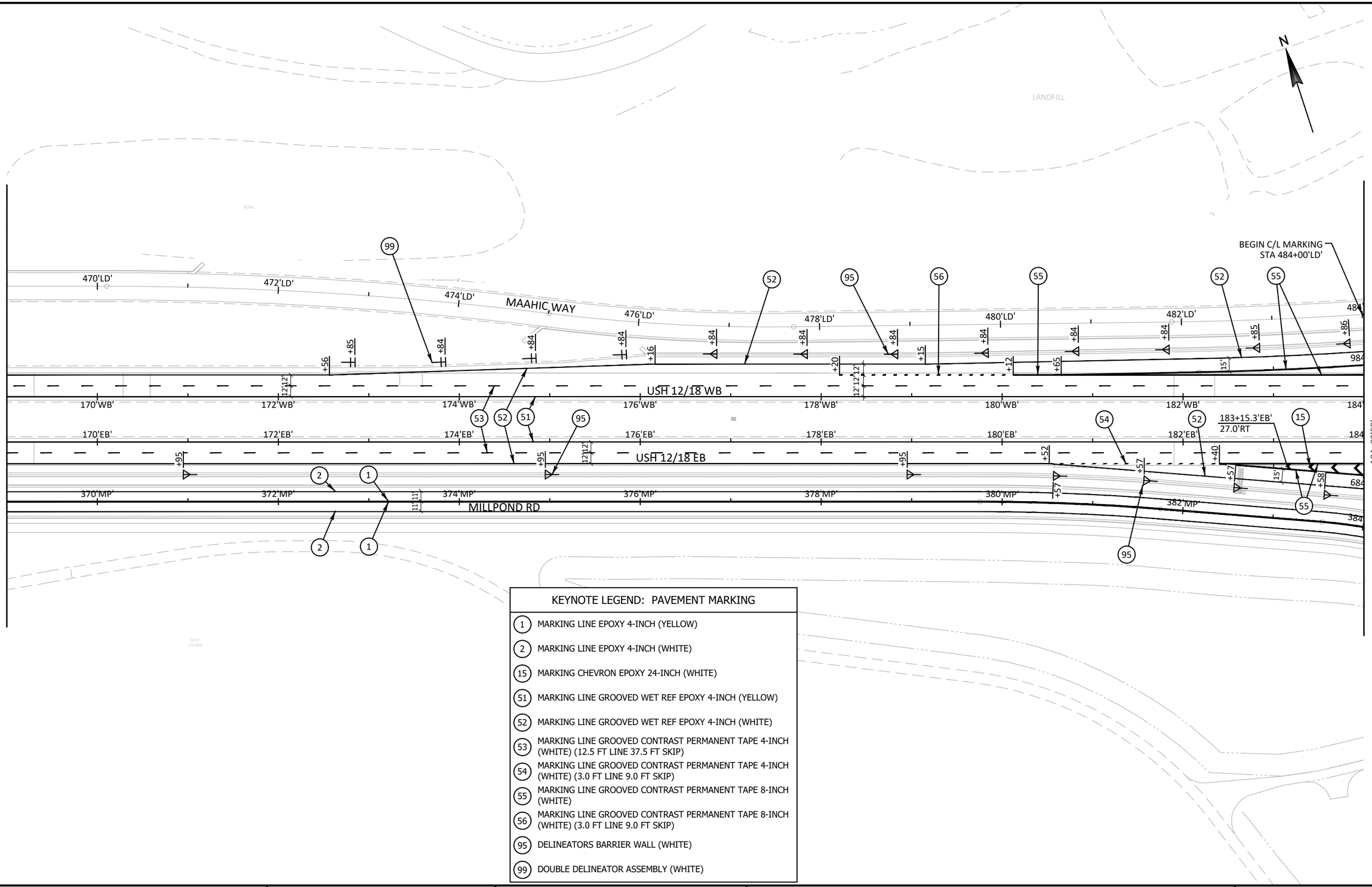
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT PAVEMENT MARKING	PAGE 03 OF 19	SHEET 297	E

2



KEYNOTE LEGEND: PAVEMENT MARKING	
1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
53	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
95	DELINEATORS BARRIER WALL (WHITE)
96	SINGLE DELINEATOR ASSEMBLY (YELLOW)
98	SINGLE DELINEATOR ASSEMBLY (WHITE)

2



KEYNOTE LEGEND: PAVEMENT MARKING

1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
15	MARKING CHEVRON EPOXY 24-INCH (WHITE)
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
53	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
54	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
55	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
56	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
95	DELINEATORS BARRIER WALL (WHITE)
99	DOUBLE DELINEATOR ASSEMBLY (WHITE)

2

MATCH LINE 24+80'XAB' (SEE PAGE 11 OF 19)

END PAVEMENT MARKING
STA 486+58'LD'

CTH AB

MAAHIC WAY

WB ENTRANCE RAMP

SEE PAGE 13/14 OF 19

USH 12/18 WB

USH 12/18 EB

EB EXIT RAMP

SEE PAGE 15 OF 19

SEE PAGE 16 OF 19

MILLPOND RD

CTH AB

BLDG

N

KEYNOTE LEGEND: PAVEMENT MARKING

1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
13	MARKING STOP LINE EPOXY 18-INCH (WHITE)
15	MARKING CHEVRON EPOXY 24-INCH (WHITE)
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
53	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
55	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
95	DELINEATORS BARRIER WALL (WHITE)
98	SINGLE DELINEATOR ASSEMBLY (WHITE)

2

KEYNOTE LEGEND: PAVEMENT MARKING

15	MARKING CHEVRON EPOXY 24-INCH (WHITE)
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
53	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
54	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
55	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
98	SINGLE DELINEATOR ASSEMBLY (WHITE)
99	DOUBLE DELINEATOR ASSEMBLY (WHITE)

N

799'C' 800'C' 802'C' 804'C' WB EXIT RAMP 806'C' 808'C' 810'C'

SEE PAGE 17 OF 19

209+51.5'WB' 33.6'LT

211+26.3'WB' 27.0'LT

USH 12/18 WB

200'WB' 202'WB' 204'WB' 206'WB' 208'WB' 210'WB' 212'WB' 214

199+00'EB' 200'EB' 202'EB' 204'EB' 206'EB' 208'EB' 210'EB' 212'EB' 214 214+00'EB'

USH 12/18 EB

712'B' 710'B' 708'B' 706'B' 704'B' 702'B' 700'B'

EB ENTRANCE RAMP

SEE PAGE 18 OF 19

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT PAVEMENT MARKING	PAGE 07 OF 19	SHEET 301	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024501-PM (PVMT MRK - USH 12-18).DWG PLOT DATE : 1/12/2022 4:05 PM PLOT BY : SEH LAYOUT NAME : 07 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

2

KEYNOTE LEGEND: PAVEMENT MARKING

51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
53	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
55	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE)
56	MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
98	SINGLE DELINEATOR ASSEMBLY (WHITE)
99	DOUBLE DELINEATOR ASSEMBLY (WHITE)

N

END WB PAVEMENT MARKING
STA 220+20'WB'
MATCH EXISTING EDGELINES
MATCH EXISTING CYCLE

USH 12/18 WB

214+00'EB'

216'WB' 218'WB' 220'WB' 222'WB' 224'WB' 226'WB' 228'WB'

216'EB' 218'EB' 220'EB' 222'EB' 224'EB' 226'EB' 228'EB'

USH 12/18 EB

END EB PAVEMENT MARKING
STA 224+00'EB'
MATCH EXISTING EDGELINES
MATCH EXISTING CYCLE

UNT (TO DOOR CREEK)

SIGN
FLAG

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT PAVEMENT MARKING	PAGE 08 OF 19	SHEET 302	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024501-PM (PVMT MRK - USH 12-18).DWG PLOT DATE : 1/12/2022 4:05 PM PLOT BY : SEH LAYOUT NAME : 08 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

USH 12/18 WB

USH 12/18 EB

KEYNOTE LEGEND: PAVEMENT MARKING	
6	MARKING LINE EPOXY 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
7	MARKING LINE EPOXY 8-INCH (WHITE)
17	MARKING ARROW EPOXY (WHITE)
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
98	SINGLE DELINEATOR ASSEMBLY (WHITE)

N

688'A'

SEE PAGE 06 OF 19

15'

689'A'

+62

+04

690'A'

+62

EB EXIT RAMP

691'A'

51

+62

692'A'

+62

98

+62

52

+64

693'A'

15'

+62

+71

694'A'

15'

+63

12'

+05

A

+67

+58

6

+55

17

7

7

7

MATCH LINE 694+75"B'
(SEE PAGE 11 OF 19)

A = VARIES 12' - 14'

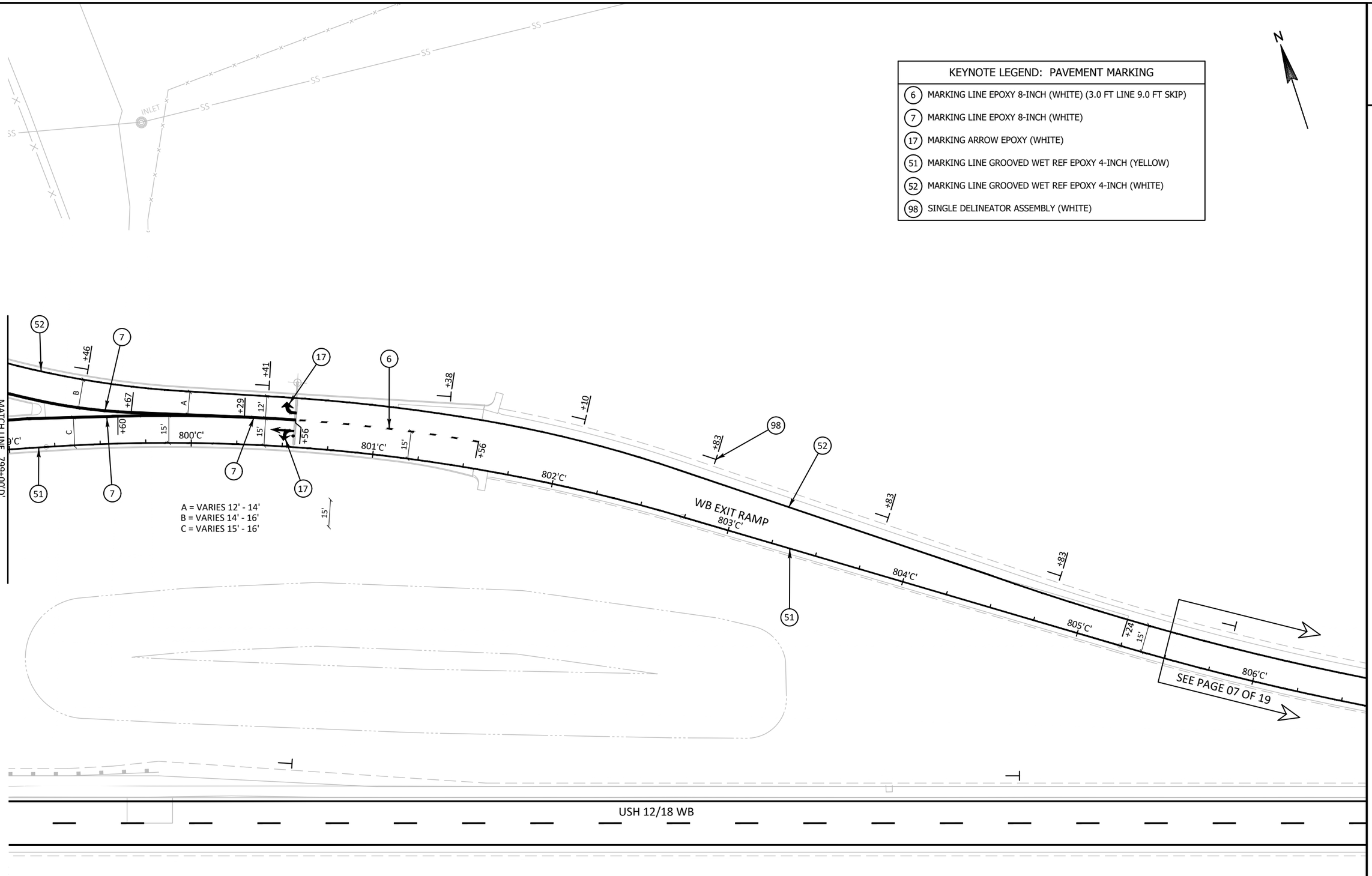
388'MP'

SEE PAGE 06 OF 19

389'MP'

2

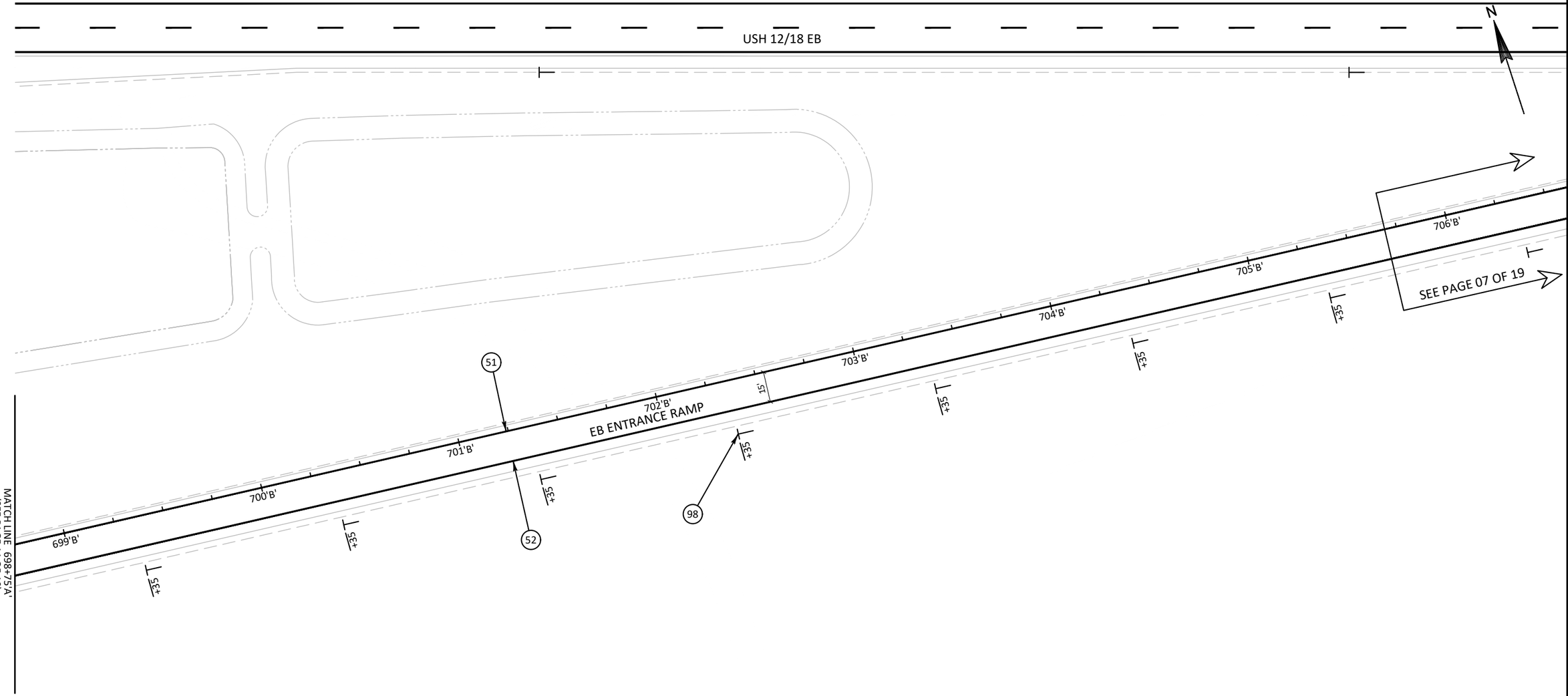
KEYNOTE LEGEND: PAVEMENT MARKING	
6	MARKING LINE EPOXY 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
7	MARKING LINE EPOXY 8-INCH (WHITE)
17	MARKING ARROW EPOXY (WHITE)
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
98	SINGLE DELINEATOR ASSEMBLY (WHITE)



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PERMAMENT PAVEMENT MARKING	PAGE 10 OF 19	SHEET 304	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024502-PM (PVMT MRK - CTH AB).DWG PLOT DATE : 1/12/2022 4:05 PM PLOT BY : SEH LAYOUT NAME : 10 PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

2



KEYNOTE LEGEND: PAVEMENT MARKING	
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
98	SINGLE DELINEATOR ASSEMBLY (WHITE)

USH 12/18 EB

EB EXIT RAMP

43'E'

44'E'

45'E'

52

51

7

11

345'MP'

R=65.0'

345'ME'

346'MP'

346'ME'

1

5

16

2

14

347'MP'

347'ME'

+78

12'

5

347+41.3'MP'
0.0'

347+51.2'MP'
0.5'RT

347+61.0'MP'
2.1'RT

348'MP'

347+65.0'MP'
7.5'RT

348'ME'

R=5.0'

R=75.0'

347+59.9'MP'
12.0'RT

+60

19

MILLPOND RD

+89

34

10'

8

GOLF COURSE ACCESS

344'MP'

344'ME'

343'MP'

343'ME'

+63

+54

MILLPOND RD

GOLF COURSE

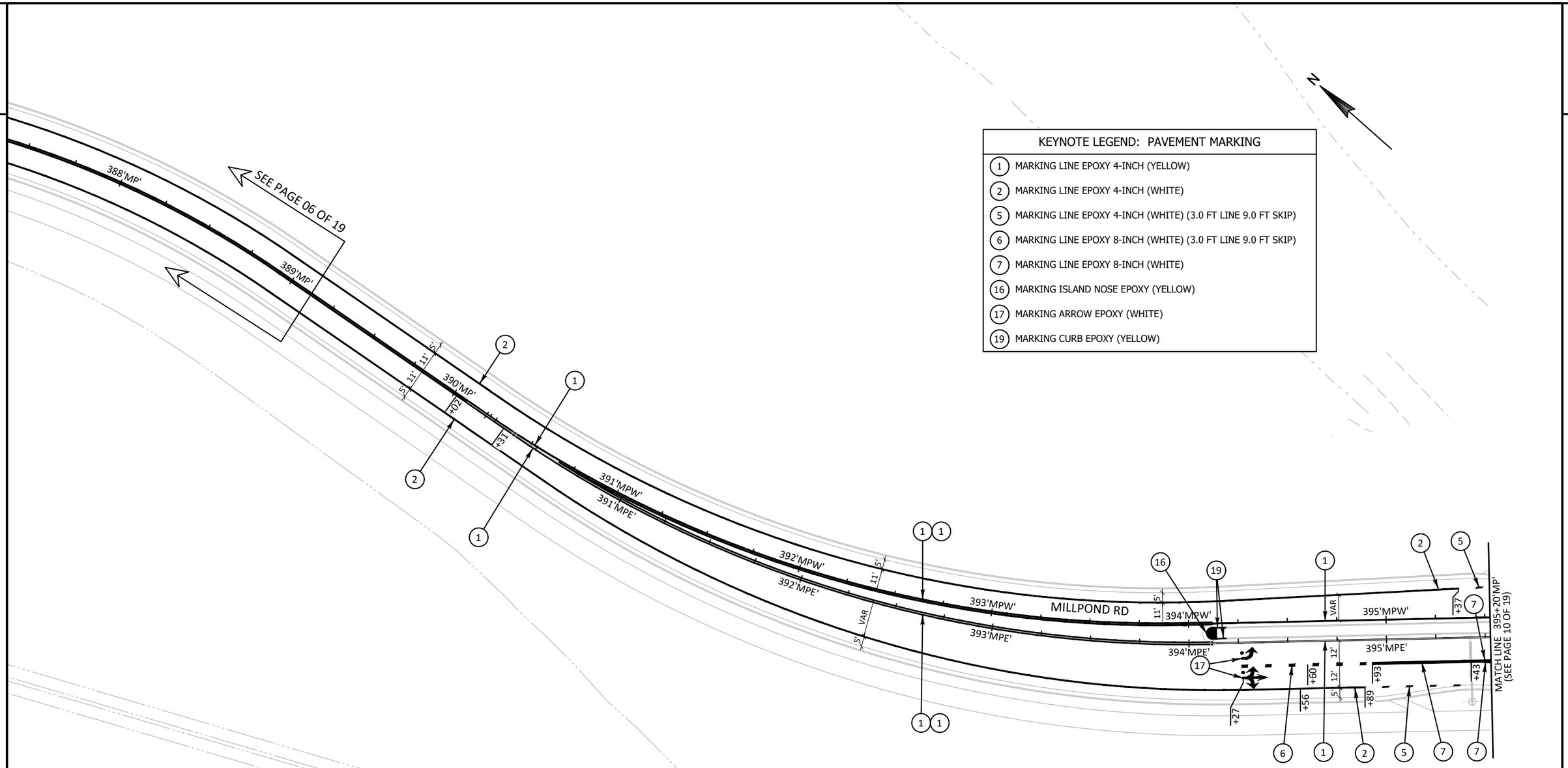
N

KEYNOTE LEGEND: PAVEMENT MARKING

1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
5	MARKING LINE EPOXY 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
7	MARKING LINE EPOXY 8-INCH (WHITE)
8	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
11	MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) (2.0 FT LINE 2.0 FT SKIP)
14	MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25.0 FT C-C)
16	MARKING ISLAND NOSE EPOXY (YELLOW)
19	MARKING CURB EPOXY (YELLOW)
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)

2

KEYNOTE LEGEND: PAVEMENT MARKING	
1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
5	MARKING LINE EPOXY 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
6	MARKING LINE EPOXY 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
7	MARKING LINE EPOXY 8-INCH (WHITE)
16	MARKING ISLAND NOSE EPOXY (YELLOW)
17	MARKING ARROW EPOXY (WHITE)
19	MARKING CURB EPOXY (YELLOW)



PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PERMAMENT PAVEMENT MARKING	PAGE 13 OF 19	SHEET 307	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024502-PM (PVMT MRK - CTH AB).DWG PLOT DATE : 1/12/2022 4:06 PM PLOT BY : SEH LAYOUT NAME : 13 PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

2

2

KEYNOTE LEGEND: PAVEMENT MARKING

1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
14	MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25.0 FT C-C)
16	MARKING ISLAND NOSE EPOXY (YELLOW)
19	MARKING CURB EPOXY (YELLOW)

N

RETRACE EXISTING CENTER LINES

CTH AB

498'NB'

499'NB'

500'NB'

500'SB'

501'SB'

501'NB'

502'SB'

502'NB'

503'SB'

503'NB'

504'SB' CTH AB SB

504'NB'

CTH AB NB

505'

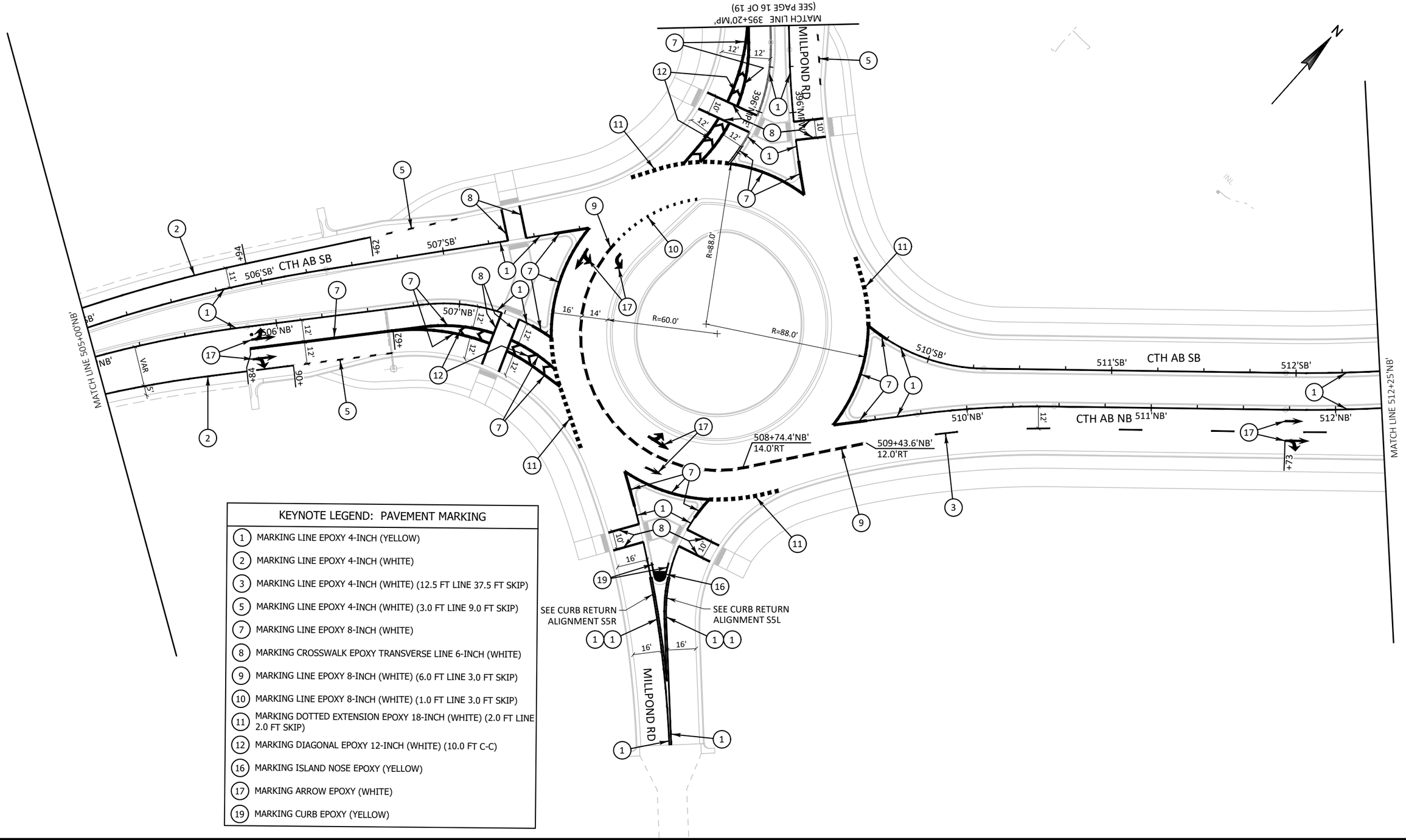
505'

11'

11'

11

2

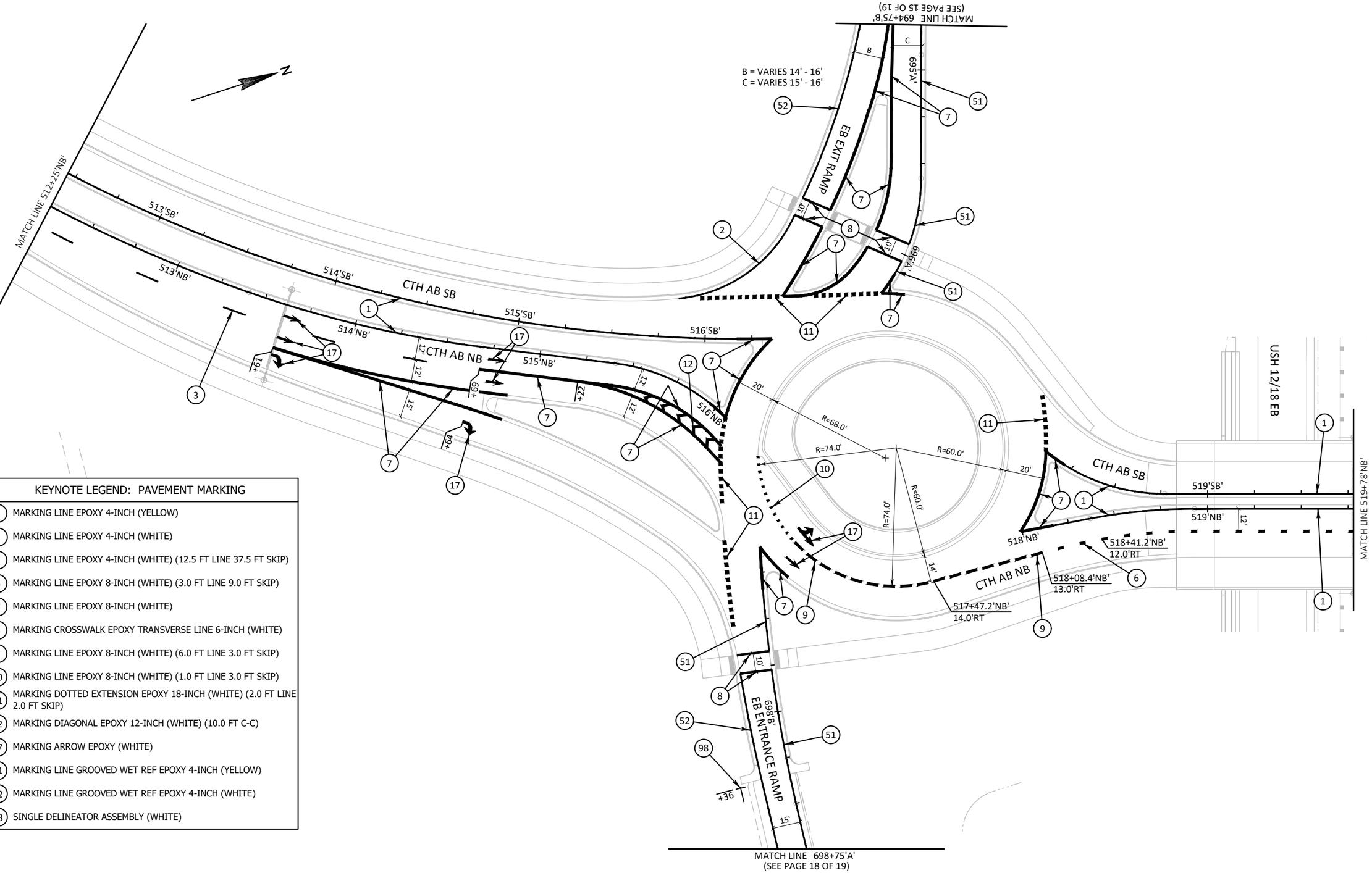


KEYNOTE LEGEND: PAVEMENT MARKING	
1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
3	MARKING LINE EPOXY 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
5	MARKING LINE EPOXY 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
7	MARKING LINE EPOXY 8-INCH (WHITE)
8	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
9	MARKING LINE EPOXY 8-INCH (WHITE) (6.0 FT LINE 3.0 FT SKIP)
10	MARKING LINE EPOXY 8-INCH (WHITE) (1.0 FT LINE 3.0 FT SKIP)
11	MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) (2.0 FT LINE 2.0 FT SKIP)
12	MARKING DIAGONAL EPOXY 12-INCH (WHITE) (10.0 FT C-C)
16	MARKING ISLAND NOSE EPOXY (YELLOW)
17	MARKING ARROW EPOXY (WHITE)
19	MARKING CURB EPOXY (YELLOW)

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PERMAMENT PAVEMENT MARKING	PAGE 15 OF 19	SHEET 309	E

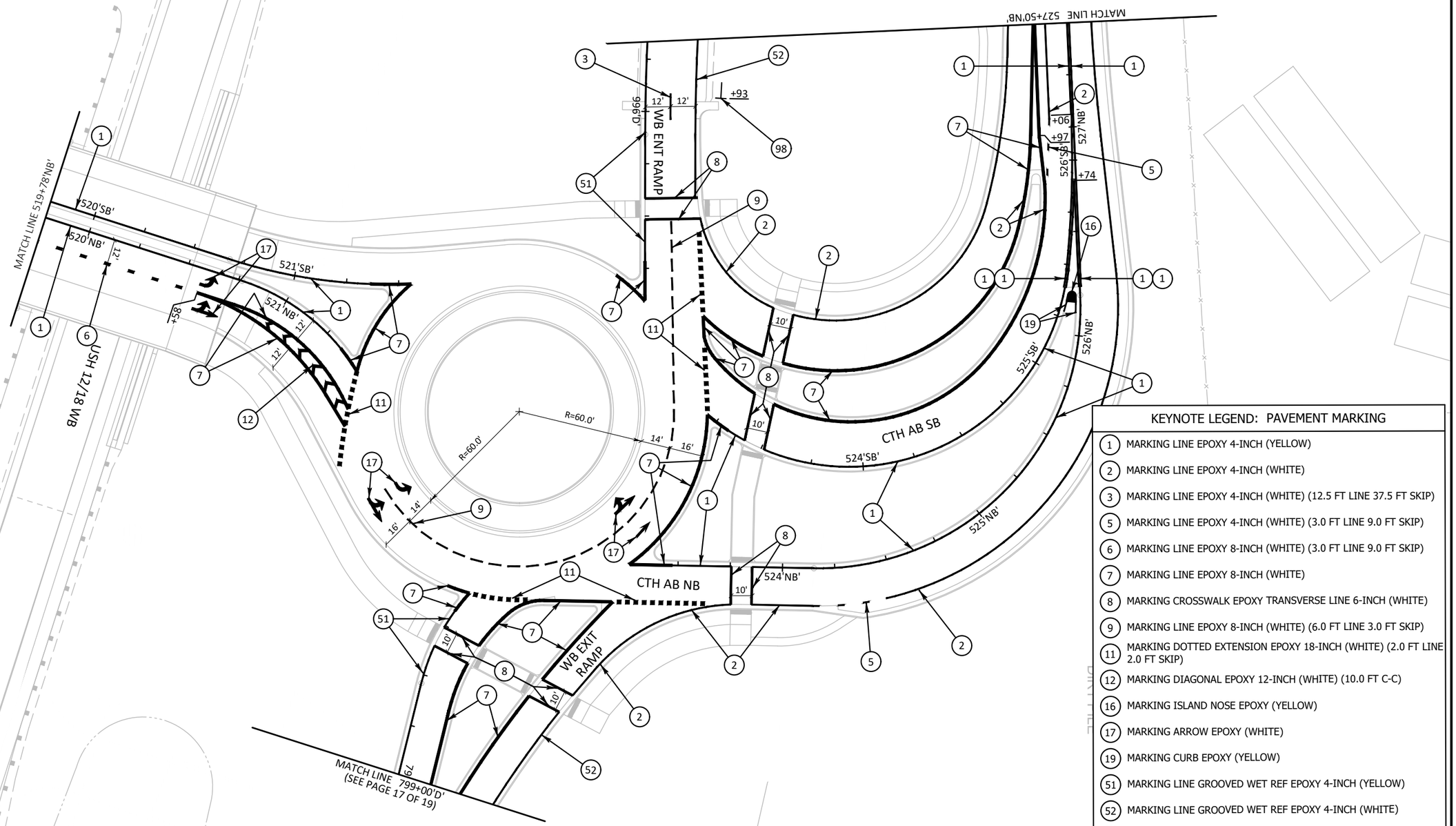
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024502-PM (PVMT MRK - CTH AB).DWG
PLOT DATE : 1/12/2022 4:06 PM
PLOT BY : SEH
LAYOUT NAME : 15
PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

2



KEYNOTE LEGEND: PAVEMENT MARKING	
1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
3	MARKING LINE EPOXY 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
6	MARKING LINE EPOXY 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
7	MARKING LINE EPOXY 8-INCH (WHITE)
8	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
9	MARKING LINE EPOXY 8-INCH (WHITE) (6.0 FT LINE 3.0 FT SKIP)
10	MARKING LINE EPOXY 8-INCH (WHITE) (1.0 FT LINE 3.0 FT SKIP)
11	MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) (2.0 FT LINE 2.0 FT SKIP)
12	MARKING DIAGONAL EPOXY 12-INCH (WHITE) (10.0 FT C-C)
17	MARKING ARROW EPOXY (WHITE)
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
98	SINGLE DELINEATOR ASSEMBLY (WHITE)

2



KEYNOTE LEGEND: PAVEMENT MARKING

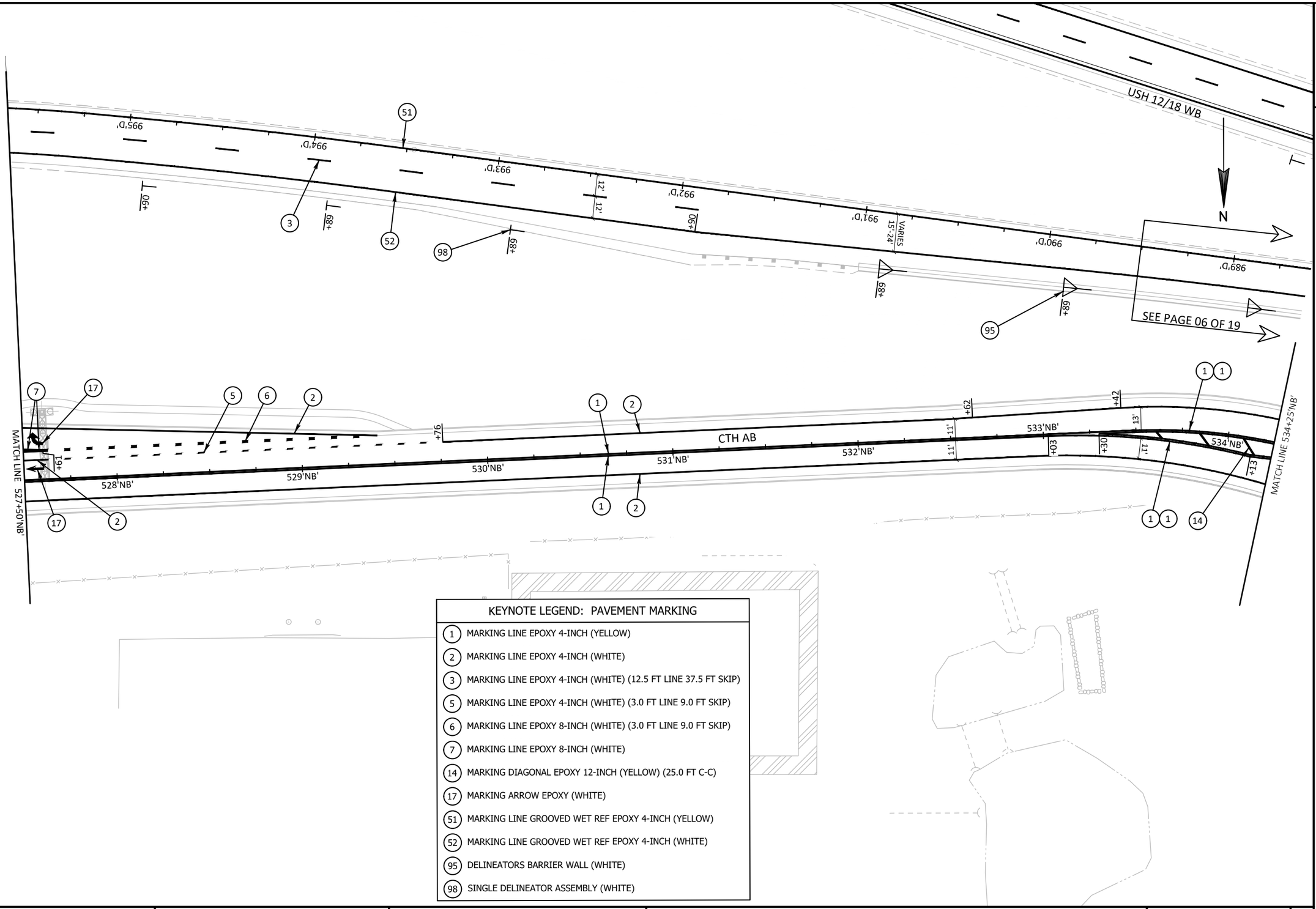
1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
3	MARKING LINE EPOXY 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
5	MARKING LINE EPOXY 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
6	MARKING LINE EPOXY 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
7	MARKING LINE EPOXY 8-INCH (WHITE)
8	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
9	MARKING LINE EPOXY 8-INCH (WHITE) (6.0 FT LINE 3.0 FT SKIP)
11	MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) (2.0 FT LINE 2.0 FT SKIP)
12	MARKING DIAGONAL EPOXY 12-INCH (WHITE) (10.0 FT C-C)
16	MARKING ISLAND NOSE EPOXY (YELLOW)
17	MARKING ARROW EPOXY (WHITE)
19	MARKING CURB EPOXY (YELLOW)
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
98	SINGLE DELINEATOR ASSEMBLY (WHITE)

DRAFT TEE

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PERMAMENT PAVEMENT MARKING	PAGE 17 OF 19	SHEET 311	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024502-PM (PVMT MRK - CTH AB).DWG PLOT DATE : 1/12/2022 4:06 PM PLOT BY : SEH LAYOUT NAME : 17 PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42

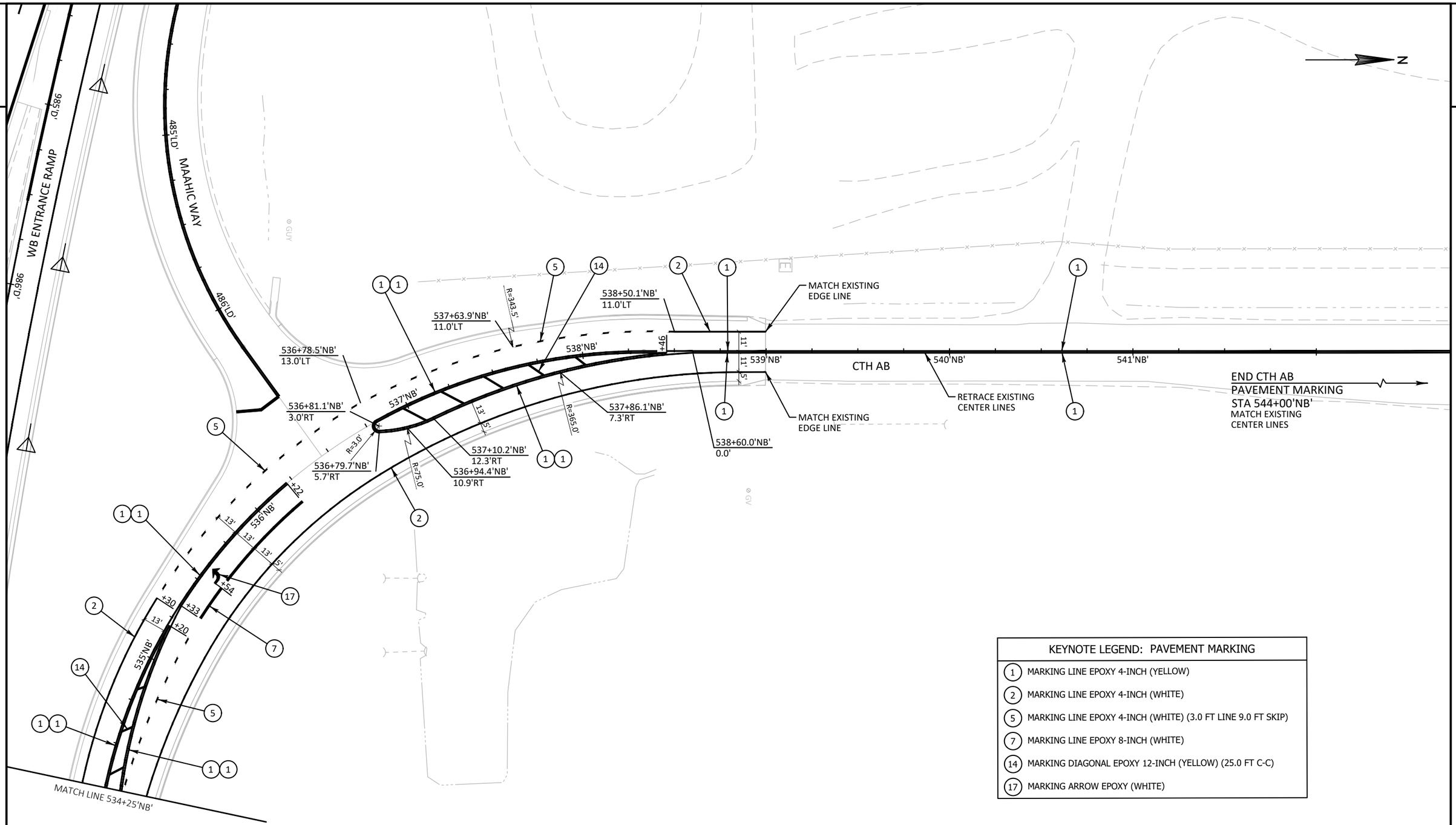
2



KEYNOTE LEGEND: PAVEMENT MARKING	
1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
3	MARKING LINE EPOXY 4-INCH (WHITE) (12.5 FT LINE 37.5 FT SKIP)
5	MARKING LINE EPOXY 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
6	MARKING LINE EPOXY 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
7	MARKING LINE EPOXY 8-INCH (WHITE)
14	MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25.0 FT C-C)
17	MARKING ARROW EPOXY (WHITE)
51	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
52	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
95	DELINEATORS BARRIER WALL (WHITE)
98	SINGLE DELINEATOR ASSEMBLY (WHITE)

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PERMAMENT PAVEMENT MARKING	PAGE 18 OF 19	SHEET 312	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024502-PM (PVMT MRK - CTH AB).DWG PLOT DATE : 1/12/2022 4:06 PM PLOT BY : SEH LAYOUT NAME : 18 PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42



KEYNOTE LEGEND: PAVEMENT MARKING	
1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
5	MARKING LINE EPOXY 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
7	MARKING LINE EPOXY 8-INCH (WHITE)
14	MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25.0 FT C-C)
17	MARKING ARROW EPOXY (WHITE)

2

2

N

AGRICULTURE DR

USH 12/18

1 MILE

ROAD WORK 1 MILE
W20-1F

AGRICULTURE DR

M3-2 36"X18" | EAST EAST 12 18 | M3-2 36"X18"
M1-4 36"X36" | M1-4 36"X36"
WR
MAX. 11 WIDTH
W12-52 48"X48"
1½ MILES AHEAD
WO57-52 48"X36"

M3-2 36"X18" | EAST EAST 12 18 | M3-2 36"X18"
M1-4 36"X36" | M1-4 36"X36"
WR
MAX. 11 WIDTH
W12-52 48"X48"
1½ MILES AHEAD
WO57-52 48"X36"

M3-2 36"X18" | EAST EAST 12 18 | M3-2 36"X18"
M1-4 36"X36" | M1-4 36"X36"
WR
WIDE LOADS EXCEEDING 11 FT
R12-70B
114"X42"

M3-2 36"X18" | EAST EAST 12 18 | M3-2 36"X18"
M1-4 36"X36" | M1-4 36"X36"
ROAD WORK 1 MILE
W20-1F

IH 39/90

1 MILE

M3-2 36"X18" | EAST EAST 12 18 | M3-2 36"X18"
M1-4 36"X36" | M1-4 36"X36"
WR
MAX. 11 WIDTH
W12-52 48"X48"
1/2 MILES AHEAD
WO57-52 48"X36"

ROAD WORK 1/2 MILE
W20-1G

MAX. 11 WIDTH
W12-52 48"X48"
WR

M3-2 36"X18" | EAST EAST 12 18 | M3-2 36"X18"
M1-4 36"X36" | M1-4 36"X36"
WR
WIDE LOADS EXCEEDING 11 FT
R12-70B(MOD)
114"X42"

ROAD WORK 1000 FT
W20-1C

M3-2 36"X18" | EAST EAST 12 18 | M3-2 36"X18"
M1-4 36"X36" | M1-4 36"X36"
WR
MAX. 11 WIDTH
W12-52 48"X48"
3/4 MILES AHEAD
WO57-52 48"X36"

END ROAD WORK
G20-2A
48"X24"

USH 12/18

PCMS

ROAD WORK 1000 FT
W20-1C

MILLPOND RD

MAX. 11 WIDTH
W12-52 48"X48"
WR

ROAD WORK 1500 FT
W20-1B

SAVANNAH RD

PCMS MESSAGE:

ROAD WORK BEGINS	DATE & TIME
FRAME A	FRAME B

(IN PLACE A MINIMUM OF 7 CALENDAR DAYS PRIOR TO ROAD WORK BEGINNING CLOSURE)

IH 39/90

M3-2 36"X18" | EAST EAST 12 18 | M3-2 36"X18"
M1-4 36"X36" | M1-4 36"X36"
ROAD WORK AHEAD
W20-1A

ADVANCED WARNING SIGNING LEGEND

- WORK ZONE
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- 15C2b-D — BARRICADES AND SIGNS FOR VARIOUS CLOSURES (DETAIL D)
- 15C2b-E — BARRICADES AND SIGNS FOR VARIOUS CLOSURES (DETAIL E)
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- WR — WIDTH RESTRICTION SIGNING ONLY REQUIRED DURING SINGLE LANE CLOSURES WITH LESS THAN 16-FEET CLEAR WIDTH.

ADVANCED WARNING SIGNING NOTES:

1) FOR "ROAD WORK AHEAD" SIGNS ON MILLPOND RD AND MINOR SIDE ROADS, SEE SEPARATE SHEETS FOR EACH STAGE.
2) ALL SIGNS ARE 48" X 48", UNLESS OTHERWISE NOTED.
3) "WO" SIGNS ARE THE SAME AS "W" SIGNS, EXCEPT THE BACKGROUND IS ORANGE.
4) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
5) MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.

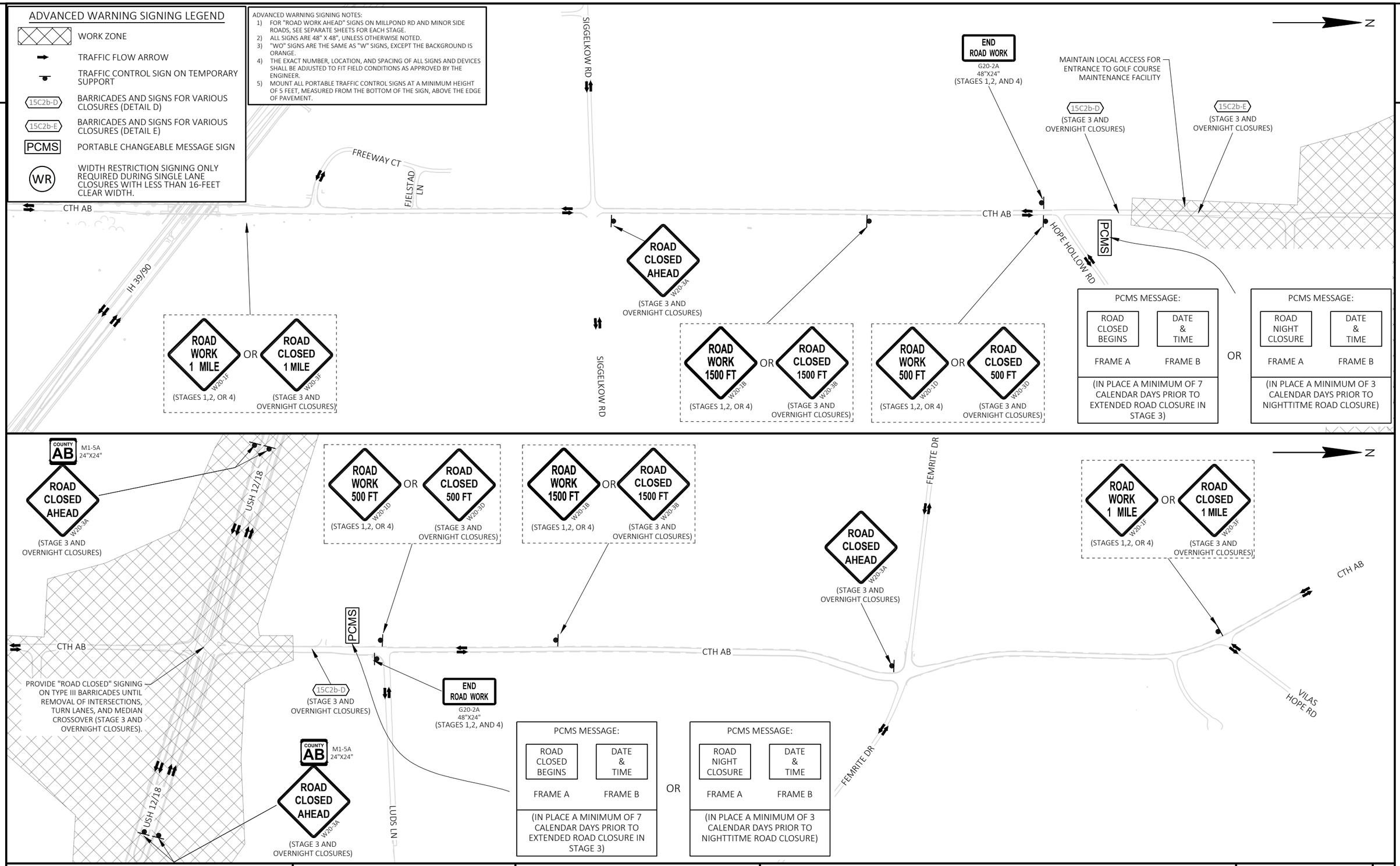
PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	ADVANCED WARNING SIGNING	SHEET 314	E

ADVANCED WARNING SIGNING LEGEND

- WORK ZONE
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- 15C2b-D — BARRICADES AND SIGNS FOR VARIOUS CLOSURES (DETAIL D)
- 15C2b-E — BARRICADES AND SIGNS FOR VARIOUS CLOSURES (DETAIL E)
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- WR — WIDTH RESTRICTION SIGNING ONLY REQUIRED DURING SINGLE LANE CLOSURES WITH LESS THAN 16-FEET CLEAR WIDTH.

ADVANCED WARNING SIGNING NOTES:

1) FOR "ROAD WORK AHEAD" SIGNS ON MILLPOND RD AND MINOR SIDE ROADS, SEE SEPARATE SHEETS FOR EACH STAGE.
2) ALL SIGNS ARE 48" X 48", UNLESS OTHERWISE NOTED.
3) "WO" SIGNS ARE THE SAME AS "W" SIGNS, EXCEPT THE BACKGROUND IS ORANGE.
4) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
5) MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.



PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	ADVANCED WARNING SIGNING	SHEET 315	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025001_AW.DWG
LAYOUT NAME - 02
PLOT DATE : 1/30/2022 1:08 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

2

N

ROAD WORK 500 FT
W20-1D

ROAD WORK 1500 FT
W20-1B

PCMS MESSAGE:

ROAD WORK BEGINS	DATE & TIME
FRAME A	FRAME B

(IN PLACE A MINIMUM OF 7 CALENDAR DAYS PRIOR TO ROAD WORK BEGINNING CLOSURE)

MAX. 11 WIDTH
W12-52
48"X48"

WR

END ROAD WORK
G20-2A
48"X24"

USH 12/18

PCMS

FEMRITE DR

SIGGELKOW RD

ROTHAMER RD

ROAD WORK 1 MILE
W20-1F

VILAS RD

VILAS RD

USH 12/18

ADVANCED WARNING SIGNING LEGEND

- WORK ZONE
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- 15C2b-D — BARRICADES AND SIGNS FOR VARIOUS CLOSURES (DETAIL D)
- 15C2b-E — BARRICADES AND SIGNS FOR VARIOUS CLOSURES (DETAIL E)
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- WR — WIDTH RESTRICTION SIGNING ONLY REQUIRED DURING SINGLE LANE CLOSURES WITH LESS THAN 16-FEET CLEAR WIDTH.

ADVANCED WARNING SIGNING NOTES:

1) FOR "ROAD WORK AHEAD" SIGNS ON MILLPOND RD AND MINOR SIDE ROADS, SEE SEPARATE SHEETS FOR EACH STAGE.
2) ALL SIGNS ARE 48" X 48", UNLESS OTHERWISE NOTED.
3) "WO" SIGNS ARE THE SAME AS "W" SIGNS, EXCEPT THE BACKGROUND IS ORANGE.
4) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
5) MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	ADVANCED WARNING SIGNING	SHEET 316	E

2

N

51

39

90

AB

FEMRITE DR

APPROXIMATE AREA OF WIDTH RESTRICTIONS

12 18

MUD LAKE

51

McFarland

SIGGELKOW RD

LAKE WAUBESA

51

MN

AB

MN

12 18

39 90

N

M3-4 24"X12" | WEST WEST | M3-4 24"X12"
M1-4 36"X36" | 12 18 | M1-4 36"X36"
WR
MAX. 11 WIDTH
W12-52 48"X48"

M1-4 36"X36" | 12 18 | M1-4 36"X36"
WIDE LOADS EXCEEDING 11 FT
R12-70B 114"X42"
WR

WR
M1-4 36"X36" | 12 18 | M1-4 36"X36"
MAX. 11 WIDTH
W12-52 48"X48"
3½ MILES AHEAD
WO57-52 48"X36"

M3-4 24"X12" | WEST WEST | M3-4 24"X12"
M1-4 36"X36" | 12 18 | M1-4 36"X36"
WR
MAX. 11 WIDTH
W12-52 48"X48"

M3-2 36"X18" | EAST EAST | M3-2 36"X18"
M1-4 36"X36" | 12 18 | M1-4 36"X36"
WR
WIDE LOADS EXCEEDING 11 FT
R12-70B 114"X42"

M3-2 36"X18" | EAST EAST | M3-2 36"X18"
M1-4 36"X36" | 12 18 | M1-4 36"X36"
WR
MAX. 11 WIDTH
W12-52 48"X48"
6½ MILES AHEAD
WO57-52 48"X36"
(ONE SIGN SET IN MEDIAN)

M3-2 36"X18" | EAST EAST | M3-2 36"X18"
M1-4 36"X36" | 12 18 | M1-4 36"X36"
WR
WIDE LOADS EXCEEDING 11 FT
R12-70B 114"X42"

ADVANCED WARNING SIGNING LEGEND

- WORK ZONE
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- 15C2b-D — BARRICADES AND SIGNS FOR VARIOUS CLOSURES (DETAIL D)
- 15C2b-E — BARRICADES AND SIGNS FOR VARIOUS CLOSURES (DETAIL E)
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- WR — WIDTH RESTRICTION SIGNING ONLY REQUIRED DURING SINGLE LANE CLOSURES WITH LESS THAN 16-FEET CLEAR WIDTH.

ADVANCED WARNING SIGNING NOTES:

1) FOR "ROAD WORK AHEAD" SIGNS ON MILLPOND RD AND MINOR SIDE ROADS, SEE SEPARATE SHEETS FOR EACH STAGE.
2) ALL SIGNS ARE 48" X 48", UNLESS OTHERWISE NOTED.
3) "WO" SIGNS ARE THE SAME AS "W" SIGNS, EXCEPT THE BACKGROUND IS ORANGE.
4) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
5) MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	ADVANCED WARNING SIGNING	SHEET 317	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025001_AW.DWG
LAYOUT NAME - 04
PLOT DATE : 1/30/2022 1:08 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:0.5 MI
WISDOT/CADDS SHEET 42

2

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- TEMPORARY RUMBLE STRIPS (VARIABLE SPACING)

NOTE:

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

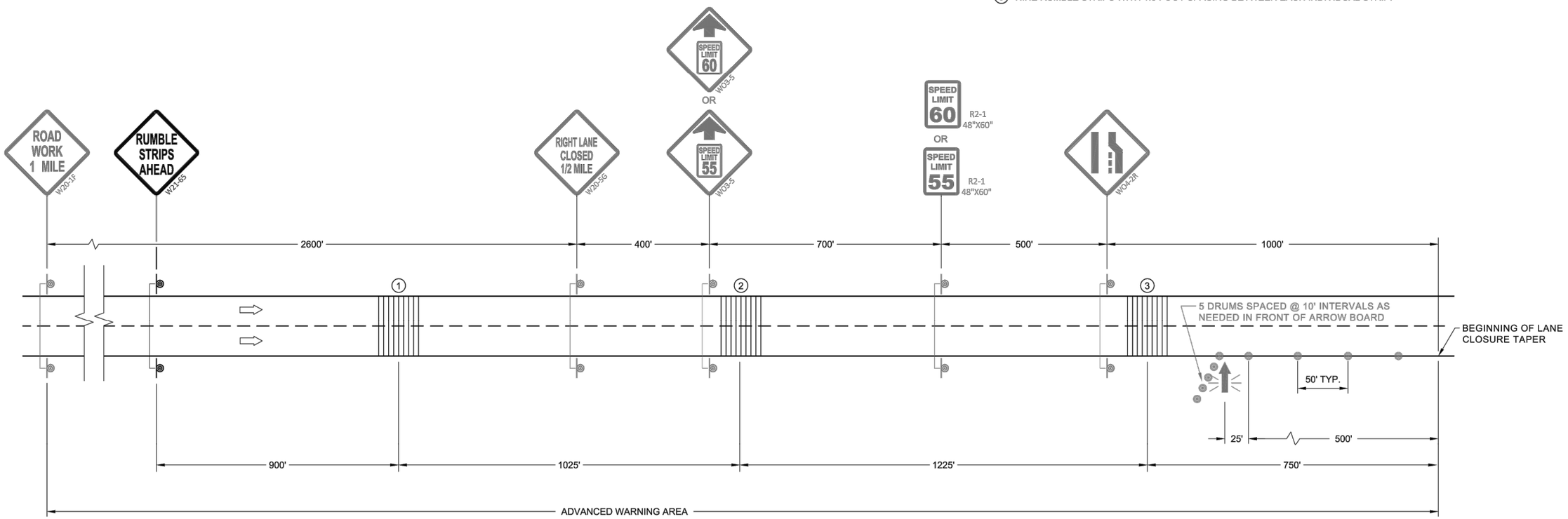
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

USE THIS DETAIL FOR PLACEMENT OF TEMPORARY RUMBLE STRIPS AND W21-65 SIGNS. SEE APPROPRIATE LANE CLOSURE SDD FOR DETAILS OF OTHER TRAFFIC CONTROL DEVICES AND SIGNS.

(1) NINE RUMBLE STRIPS WITH 10 FOOT SPACING BETWEEN EACH INDIVIDUAL STRIP.

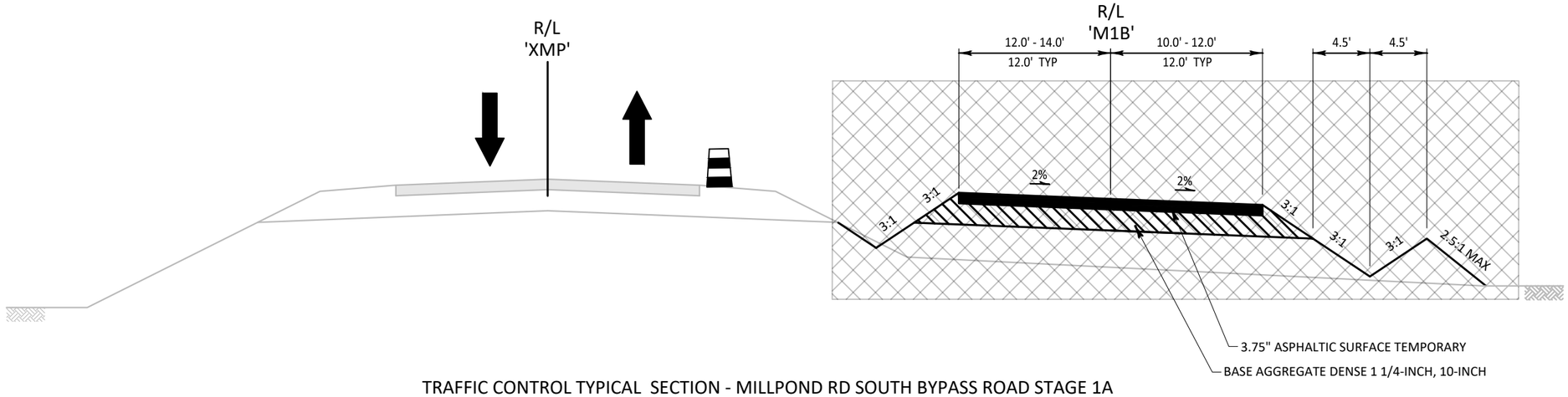
(2) NINE RUMBLE STRIPS WITH 5 FOOT SPACING BETWEEN EACH INDIVIDUAL STRIP.

(3) NINE RUMBLE STRIPS WITH 1.5 FOOT SPACING BETWEEN EACH INDIVIDUAL STRIP.



TRAFFIC CONTROL, ADVANCE WARNING TEMPORARY RUMBLE STRIP PLACEMENT

2



TRAFFIC CONTROL TYPICAL SECTION - MILLPOND RD SOUTH BYPASS ROAD STAGE 1A

CONSTRUCT TEMPORARY HMA ROADWAY AND DRAINAGE PIPES ALONG MILLPOND RD.

2

2

N

USH 12/18 WB

125'WB'

130'WB'

135'WB'

135'EB'

130'EB'

USH 12/18 EB

125'EB'

123+65'EB'

139+00'EB'

LONG DR (SOUTH)

ALL ACCESS TO BUSINESSES OPEN DURING CONSTRUCTION

FIXED MESSAGE SIGN
120"X48"

REMOVE EXISTING ADOPT A HIGHWAY SIGN

FLAGGING OPERATION REQ'D
COVER PLATE TEMPORARY REQ'D
FOR INSTALLATION OF INLET AND STORM SEWER

90'XMP'

CULVERT PIPE TEMPORARY
12-INCH REQ'D

FLAGGING OPERATION REQ'D
COVER PLATE TEMPORARY REQ'D
FOR INSTALLATION OF INLET AND STORM SEWER

335'M1B'

CULVERT PIPE TEMPORARY
18-INCH REQ'D
(TEMPORARY EXTENSIONS)

MILLPOND RD

TEMPORARY MILLPOND RD 'M1B'

50'
(TYP)

85'XMP'

SAN

330'M1B'

CULVERT PIPE TEMPORARY
12-INCH REQ'D

80'XMP'

325'M1B'

FENCE SAFETY REQ'D
(PED PROTECTION)

FLAGGING OPERATION REQ'D
FOR INSTALL OF SANITARY
SEWER AND CROSS CULVERT PIPE

ROAD WORK AHEAD
W20-1A

INSTALL 1000 FEET PRIOR
TO WORK ZONE

SUMMARY OF WORK FOR THIS STAGE:

TRAFFIC

1) USH 12/18: OPEN TO 2 LANES IN EACH DIRECTION. SINGLE LANE CLOSURES ONLY DURING OFF-PEAK TIMES. SHOULDER CLOSURES ALLOWED.
2) CTH AB: OPEN.
3) MILLPOND ROAD: FLAGGING OPERATIONS TO INSTALL SANITARY SEWER, WATER MAIN MODIFICATIONS, AND CULVERT PIPES. TRAFFIC CAN RUN ON GRAVEL FROM PIPE INSTALLATIONS FOR UP TO 7 DAYS. TRAFFIC ON EXISTING ROADWAY, EASTBOUND OUTSIDE SHOULDER CLOSED.
4) MILLPOND ROAD/LONG DRIVE SOUTH INTERSECTION: FLAGGING OPERATIONS TO INSTALL SANITARY SEWER. TRAFFIC ON EXISTING ROADWAY.

CONSTRUCTION

1) COMPLETE CLEARING, GRUBBING, AND FENCE REMOVAL TO ALLOW FOR THE INSTALLATION OF UTILITIES.
2) INSTALL NEW CITY FIBER TO YAHARA HILLS GOLF COURSE.
3) RELOCATE WISDOT FIBER ALONG MAAHIC WAY.
4) PLACE FILL AND CULVERT PIPES FOR MAAHIC WAY FROM STA 146+00'WB' TO STA 162+00'WB' LT, INCLUDING OVERBURDEN AND MONITORING DEVICES IN MARSH AREA AND TEMPORARY CULVERT PIPE AT STA 155+35'WB' LT. MAINTAIN DRAINAGE TO PIPES UNDER USH 12/18.
5) INSTALL WATER MAIN MODIFICATIONS ON MILLPOND ROAD BETWEEN SAVANNAH ROAD AND STA 343+50'MP'.
6) INSTALL CULVERT PIPES AND STORM SEWER SOUTH OF EXISTING MILLPOND ROAD THAT WILL BE UNDER THE TEMPORARY ROADWAY.
7) CONSTRUCT TEMPORARY ROAD ON SOUTH SIDE OF MILLPOND ROAD.
8) INSTALL SANITARY SEWER TO SAS#1, DEWATERING REQUIRED. ABANDON EXISTING LATERAL BETWEEN MMSD MH 07-249 AND PARKS MH 1.
9) INSTALL CROSS CULVERT AT STA 330+49'MP'.
10) BLOCK POND A DISCHARGE AND DEWATER POND A. CONSTRUCT POND A INCLUDING OUTLET STRUCTURE AND PIPE.
11) CONSTRUCT LUDS LANE.
12) EXCAVATION, FILL, AND CONSTRUCTION OF CULVERT PIPES MAY OCCUR IN THE SOUTHEAST QUADRANT OF USH 12/18 AND EXISTING CTH AB FOR THE NEW INTERCHANGE. MAINTAIN DRAINAGE.

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD W20-1A)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1A	SHEET 320	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 1A).DWG PLOT DATE : 5/25/2022 2:54 PM PLOT BY : SEH LAYOUT NAME : 04 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LANDFILL DR

FENCE SAFETY REQ'D (WELL PROTECTION)

FENCE SAFETY REQ'D (WELL PROTECTION)

N

ROAD WORK AHEAD W20-1A

LONG DR (NORTH)

MAAHIC WAY

ALL ACCESS TO BUSINESSES OPEN DURING CONSTRUCTION

FIXED MESSAGE SIGN 120"X48"

100' (TYP)

140'WB' 145'WB' USH 12/18 WB 150'WB'

139+00'EB' 154+00'EB'

140'EB' 145'EB' USH 12/18 EB 150'EB'

ROAD WORK AHEAD W20-1A

FLAGGING OPERATION REQ'D
TEMPORARY PLUG PIPE END
(INCIDENTAL TO PIPE INSTALL)

340'M1B'

11'11"

95'XMP'

50' (TYP)

MILLPOND RD

345'M1B

FLAGGING OPERATION REQ'D
REMOVE EXISTING CURB & GUTTER AND ISLANDS
INSTALL ASPHALTIC SURFACE TEMPORARY
EXISTING SIGNING TO REMAIN

GOLF COURSE ACCESS

TEMPORARY COVER PIPE ENDS (INCIDENTAL TO APRON INSTALLATION)

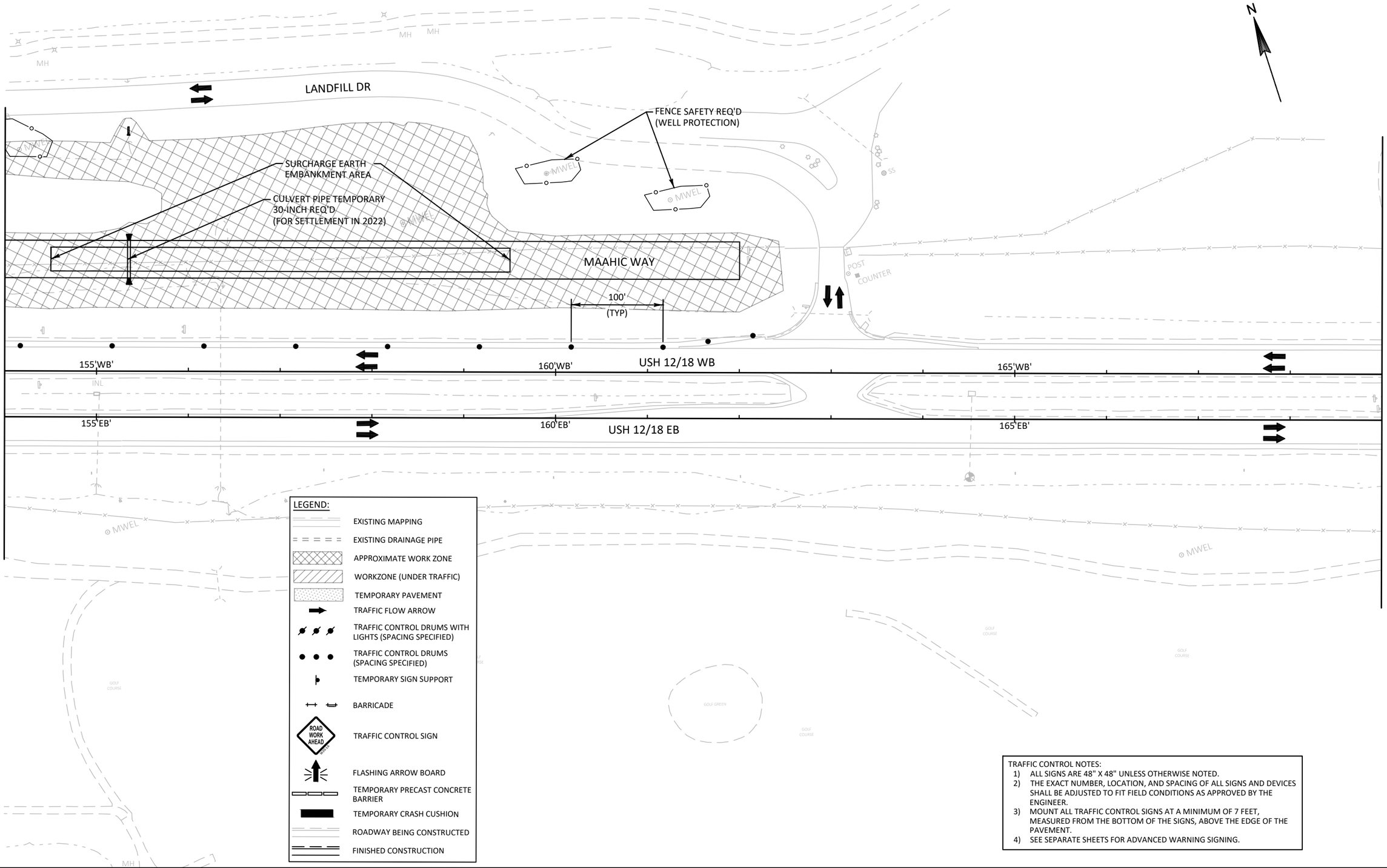
FENCE SAFETY REQ'D (PED PROTECTION)

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1A	SHEET 321	E

2



LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

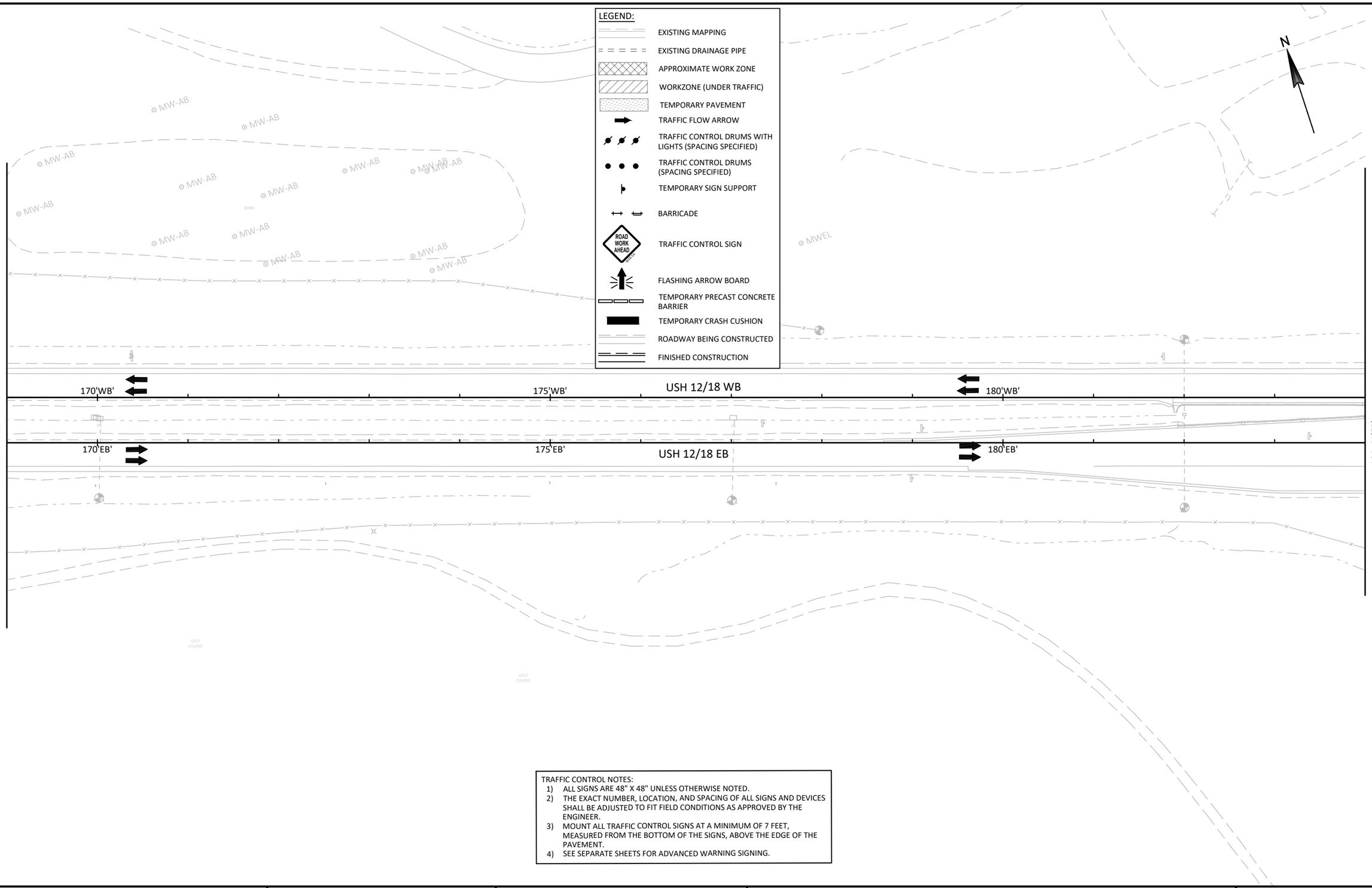
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1A	SHEET 322	E

2

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION



TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1A	SHEET 323	E

2

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

SUMMARY OF WORK FOR THIS SHEET:

TRAFFIC

1) ALL EXISTING ROADWAYS OPEN TO TRAFFIC.

CONSTRUCTION

1) EARTHWORK AND DRAINAGE PIPE INSTALLATION MAY BEGIN SOUTH OF USH 12/18 BUT IS NOT REQUIRED.

CTH AB

BLDG

STORM WATER POND

USH 12/18 WB

USH 12/18 EB

185'WB'

190'WB'

195'WB'

185'EB'

190'EB'

195'EB'

50' (TYP)

100' (TYP)

184+00'EB'

199+00'EB'

20'XAB'

100' (TYP)

CTH AB

MATCH LINE 16+00'XAB'

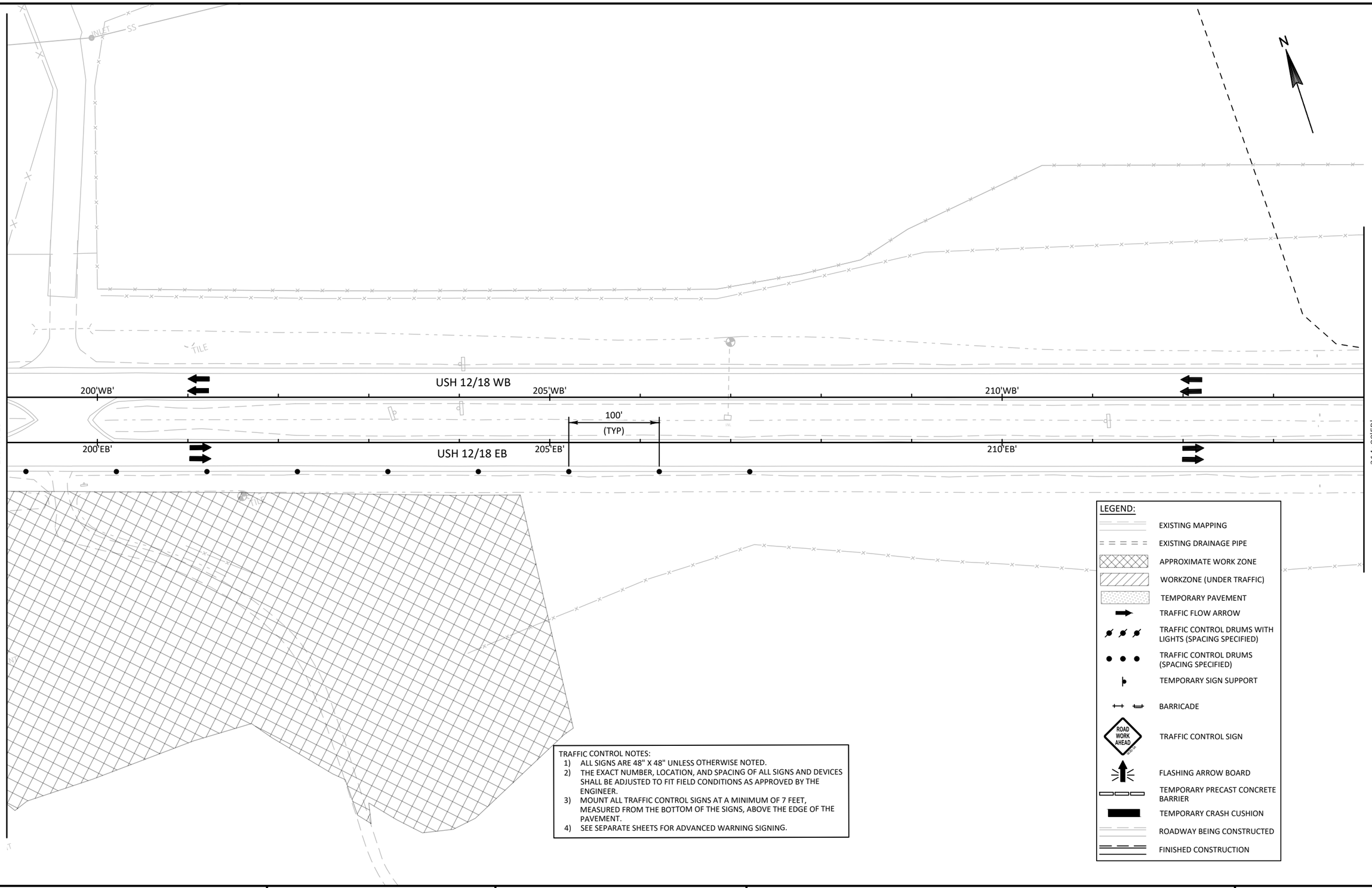
TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1A	SHEET 324	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 1A).DWG PLOT DATE : 3/10/2022 8:11 AM PLOT BY : SEH LAYOUT NAME : 08 PLOT SCALE : 1.0 IN = 100.0 FT

2


INLET
SS
TILE
N
USH 12/18 WB
200'WB'
205'WB'
210'WB'
100'
(TYP)
USH 12/18 EB
200'EB'
205'EB'
210'EB'
199+00'EB'
214+00'EB'
TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.
LEGEND:
EXISTING MAPPING
EXISTING DRAINAGE PIPE
APPROXIMATE WORK ZONE
WORKZONE (UNDER TRAFFIC)
TEMPORARY PAVEMENT
TRAFFIC FLOW ARROW
TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
TEMPORARY SIGN SUPPORT
BARRICADE
ROAD WORK AHEAD
TRAFFIC CONTROL SIGN
FLASHING ARROW BOARD
TEMPORARY PRECAST CONCRETE BARRIER
TEMPORARY CRASH CUSHION
ROADWAY BEING CONSTRUCTED
FINISHED CONSTRUCTION

2

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

N

POSTS

POSTS

5'XAB'

CTH 'AB

10'XAB'

15'XAB'

MATCH LINE 16+00'XAB'

100'
(TYP)

FENCE SAFETY REQ'D
(WELL PROTECTION)

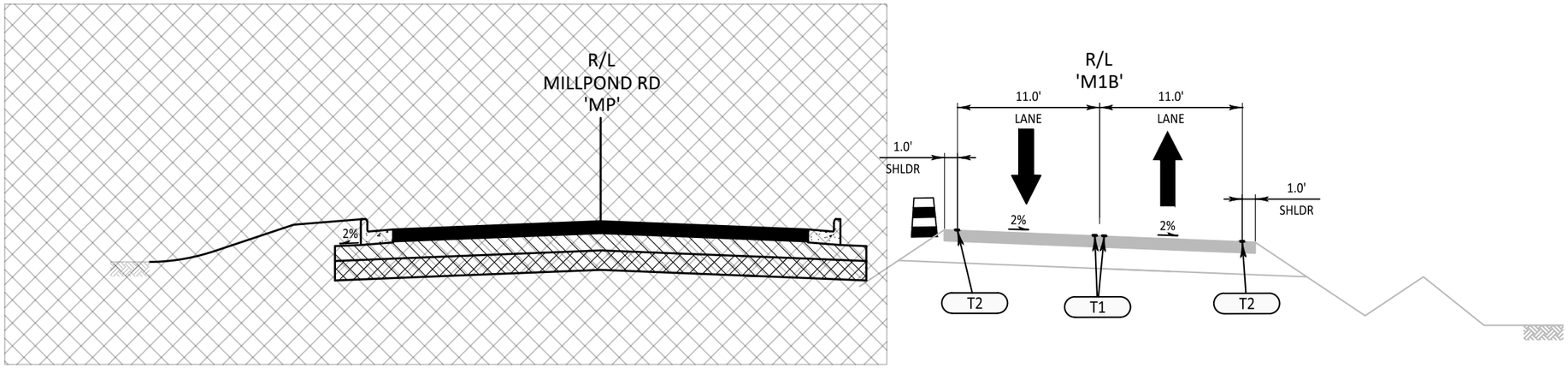
CONSTRUCTION

1) CONSTRUCTION ACCESS ALLOWED PER SDD 15D29-06.

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1A	SHEET 326	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 1A).DWG PLOT DATE : 3/10/2022 8:11 AM PLOT BY : SEH LAYOUT NAME : 11 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

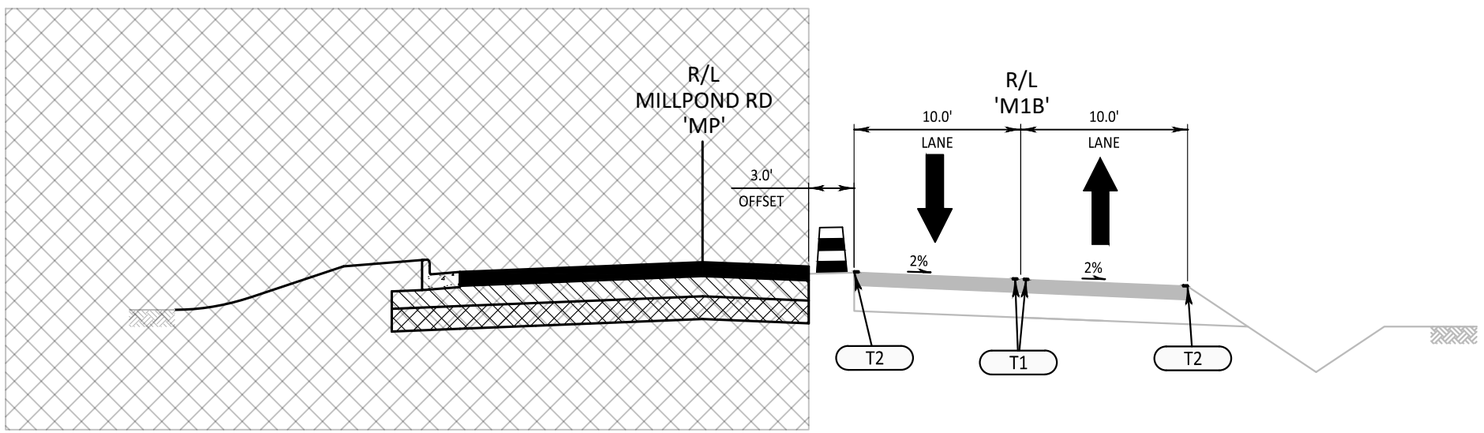
2



TRAFFIC CONTROL TYPICAL SECTION - MILLPOND RD SOUTH BYPASS ROAD STAGE 1B

STA 327+15'MP' - STA 330+95'MP'
CONSTRUCT MILLPOND RD.

KEYNOTE LEGEND: PAVEMENT MARKING	
T1	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
T2	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)



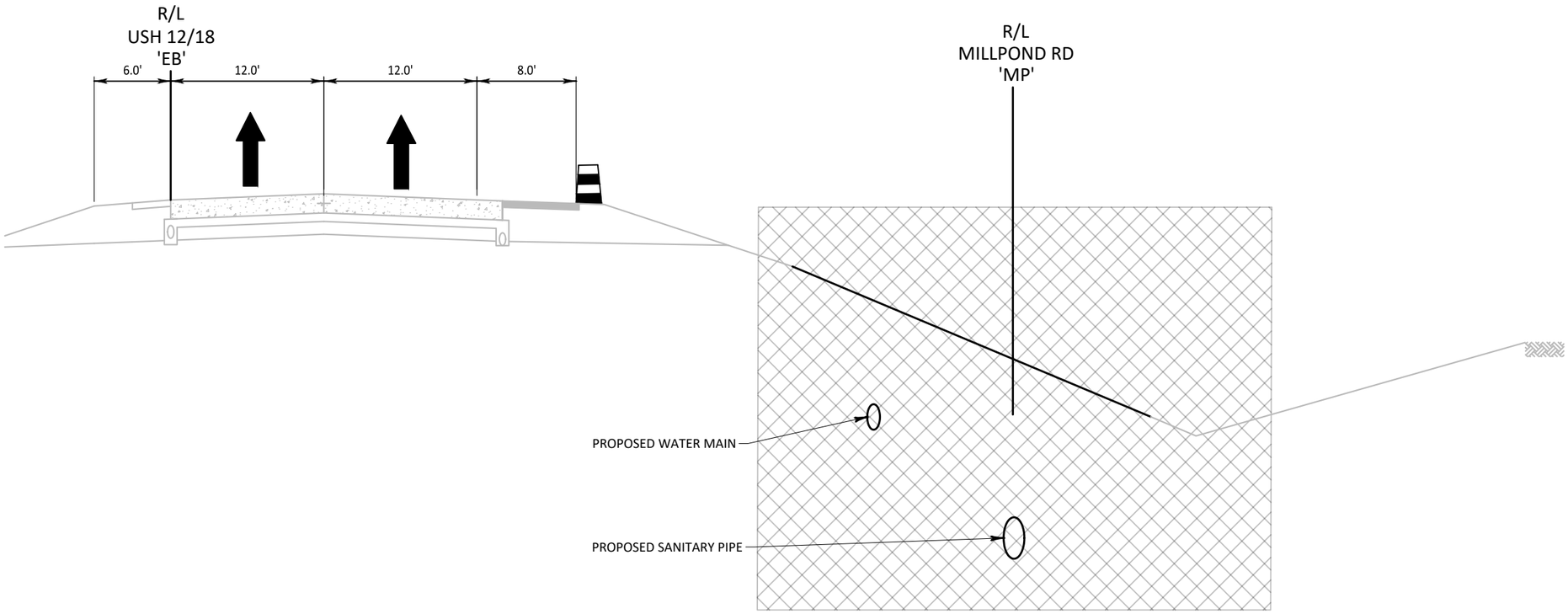
TRAFFIC CONTROL TYPICAL SECTION - MILLPOND RD (WEST LIMITS) STAGE 1B

STA 330+95'MP' - STA 340+00'MP'
CONSTRUCT MILLPOND RD.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL TYPICALS - STAGE 1B	SHEET 327 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025201-TC (TYPICAL SECTIONS).DWG PLOT DATE : 3/20/2022 7:45 AM PLOT BY : SEH LAYOUT NAME : 1B-1 PLOT SCALE : 1.0 IN = 10.0 FT
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL TYPICAL SECTION - EB USH 12/18 & MILLPOND RD - STAGE 1B

INSTALL WATER AND SANITARY ALONG EB US 12/18 OUTSIDE EMBANKMENT.

2

KEYNOTE LEGEND: PAVEMENT MARKING	
T1	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
T2	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

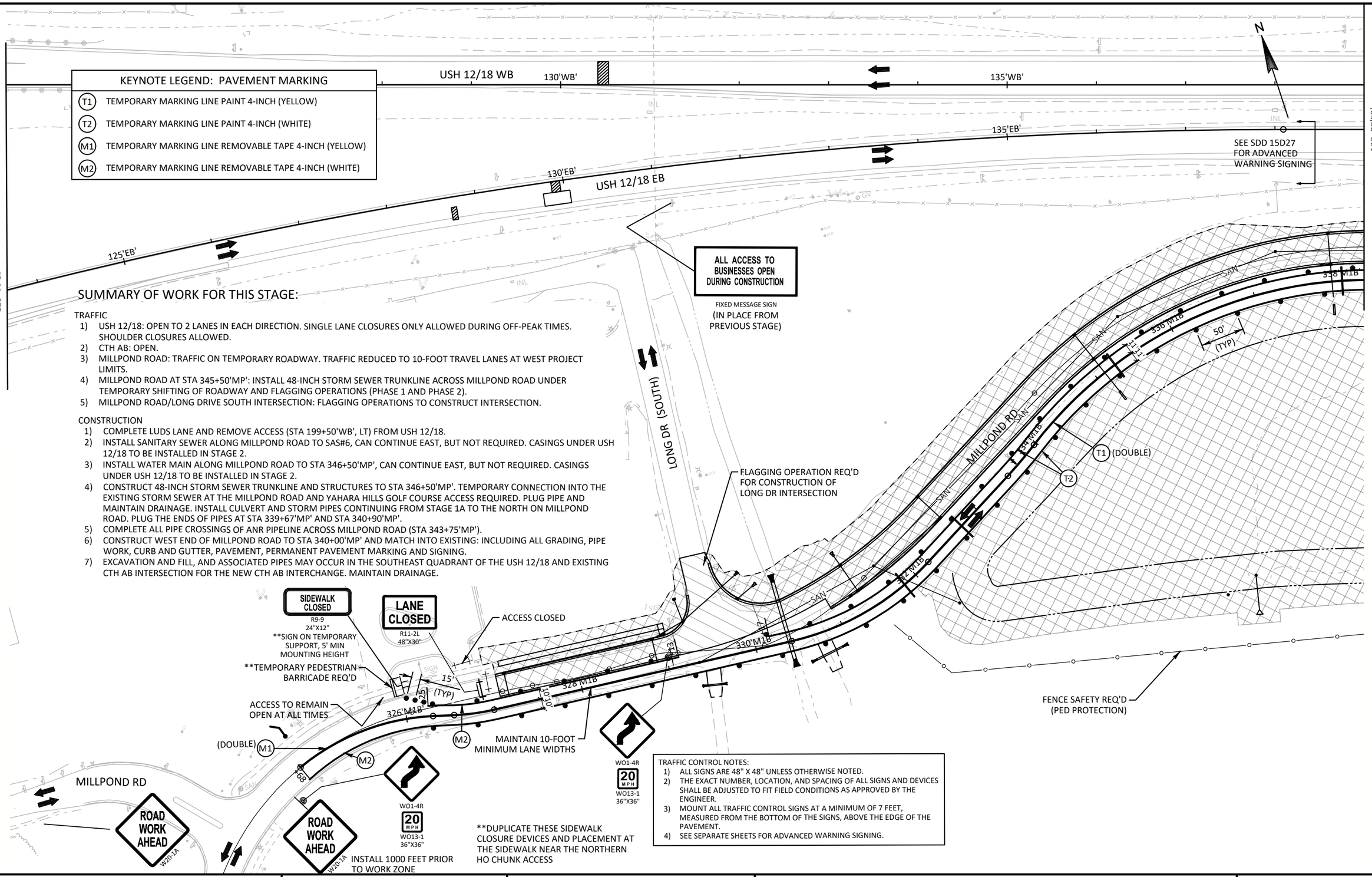
SUMMARY OF WORK FOR THIS STAGE:

TRAFFIC

1) USH 12/18: OPEN TO 2 LANES IN EACH DIRECTION. SINGLE LANE CLOSURES ONLY ALLOWED DURING OFF-PEAK TIMES. SHOULDER CLOSURES ALLOWED.
2) CTH AB: OPEN.
3) MILLPOND ROAD: TRAFFIC ON TEMPORARY ROADWAY. TRAFFIC REDUCED TO 10-FOOT TRAVEL LANES AT WEST PROJECT LIMITS.
4) MILLPOND ROAD AT STA 345+50'MP': INSTALL 48-INCH STORM SEWER TRUNKLINE ACROSS MILLPOND ROAD UNDER TEMPORARY SHIFTING OF ROADWAY AND FLAGGING OPERATIONS (PHASE 1 AND PHASE 2).
5) MILLPOND ROAD/LONG DRIVE SOUTH INTERSECTION: FLAGGING OPERATIONS TO CONSTRUCT INTERSECTION.

CONSTRUCTION

1) COMPLETE LUDS LANE AND REMOVE ACCESS (STA 199+50'WB', LT) FROM USH 12/18.
2) INSTALL SANITARY SEWER ALONG MILLPOND ROAD TO SAS#6, CAN CONTINUE EAST, BUT NOT REQUIRED. CASINGS UNDER USH 12/18 TO BE INSTALLED IN STAGE 2.
3) INSTALL WATER MAIN ALONG MILLPOND ROAD TO STA 346+50'MP', CAN CONTINUE EAST, BUT NOT REQUIRED. CASINGS UNDER USH 12/18 TO BE INSTALLED IN STAGE 2.
4) CONSTRUCT 48-INCH STORM SEWER TRUNKLINE AND STRUCTURES TO STA 346+50'MP'. TEMPORARY CONNECTION INTO THE EXISTING STORM SEWER AT THE MILLPOND ROAD AND YAHARA HILLS GOLF COURSE ACCESS REQUIRED. PLUG PIPE AND MAINTAIN DRAINAGE. INSTALL CULVERT AND STORM PIPES CONTINUING FROM STAGE 1A TO THE NORTH ON MILLPOND ROAD. PLUG THE ENDS OF PIPES AT STA 339+67'MP' AND STA 340+90'MP'.
5) COMPLETE ALL PIPE CROSSINGS OF ANR PIPELINE ACROSS MILLPOND ROAD (STA 343+75'MP').
6) CONSTRUCT WEST END OF MILLPOND ROAD TO STA 340+00'MP' AND MATCH INTO EXISTING: INCLUDING ALL GRADING, PIPE WORK, CURB AND GUTTER, PAVEMENT, PERMANENT PAVEMENT MARKING AND SIGNING.
7) EXCAVATION AND FILL, AND ASSOCIATED PIPES MAY OCCUR IN THE SOUTHEAST QUADRANT OF THE USH 12/18 AND EXISTING CTH AB INTERSECTION FOR THE NEW CTH AB INTERCHANGE. MAINTAIN DRAINAGE.



TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1B	SHEET 329	E

2

KEYNOTE LEGEND: PAVEMENT MARKING	
T1	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
T2	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
T3	TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)

LANDFILL DR

FENCE SAFETY REQ'D (WELL PROTECTION)

FENCE SAFETY REQ'D (WELL PROTECTION)

ROAD WORK AHEAD W20-1A

LONG DR (NORTH)

MAAHIC WAY

ALL ACCESS TO BUSINESSES OPEN DURING CONSTRUCTION

FIXED MESSAGE SIGN 120"X48"

R4-7 MOVE EX SIGN/S

100' (TYP)

USH 12/18 WB

140'WB' 145'WB' 150'WB'

139+00'EB'

154+00'EB'

140'EB' 145'EB' 150'EB'

USH 12/18 EB

100' (TYP)

ONE WAY R6-1L MOVE EX SIGN/S

STOP R1-1 MOVE EX SIGN/S

ROAD WORK AHEAD W20-1A

PLUG PIPE END

DO NOT ENTER R5-1 30"X30"

TEMPORARY CONNECTION TO EXISTING 24" RCP REQ'D

TEMPORARY HMA CONNECTION REQ'D

PLUG PIPE END

LANE CLOSED R11-2L 48"X30"

R4-7 MOVE EX SIGN/S

DIVIDED HIGHWAY R6-3 MOVE EX SIGN/S

W12-1D MOVE EX SIGN/S

340'M1B'

342'M1B'

344'M1B'

346'M1B'

(DOUBLE)

MILLPOND RD (TEMP)

50' (TYP)

25' (TYP)

FENCE SAFETY REQ'D (PED PROTECTION)

SALVAGE AND REINSTALL 15-INCH PIPES AND ENDWALLS.

FLAGGING OPERATION REQ'D FOR SANITARY SEWER AND WATER MAIN INSTALLATION.

FLAGGING OPERATION AND LANE SHIFTS REQ'D FOR SANITARY SEWER AND WATER MAIN INSTALLATION.

FENCE SAFETY REQ'D (PED PROTECTION)

KEYNOTE LEGEND: PAVEMENT MARKING	
E1	TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
E3	TEMPORARY MARKING STOP LINE EPOXY 18-INCH (WHITE)
E4	TEMPORARY MARKING LINE EPOXY 8-INCH (WHITE)
E5	TEMPORARY MARKING ARROW EPOXY (WHITE)

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:
- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1B	SHEET 330	E

KEYNOTE LEGEND: PAVEMENT MARKING	
T1	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
T2	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
M3	TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

ROAD WORK AHEAD W20-1A

LANDFILL DR

FENCE SAFETY REQ'D (WELL PROTECTION)

LONG DR

MAAHIC WAY

ALL ACCESS TO BUSINESSES OPEN DURING CONSTRUCTION

FIXED MESSAGE SIGN 120"X48"

N

140'WB' 145'WB' 150'WB'

100' (TYP)

USH 12/18 WB

USH 12/18 EB

139+00'EB'

154+00'EB'

140'EB' 145'EB' 150'EB'

50' (TYP)

M3 M2 M1 (DOUBLE)

ONE WAY R6-1L

MOVE EX SIGN/S

* NOTE, DRIVER VISIBILITY OF ALL STOP SIGNS SHALL BE MAINTAINED AT ALL TIMES.

LANE CLOSED R11-2L 48"X30"

MILLPOND RD (CLOSED)

MILLPOND RD (TEMP)

SAN

ONE WAY R6-1R

ONE WAY R6-1L

R1-1 STOP

R6-3 DIVIDED HIGHWAY

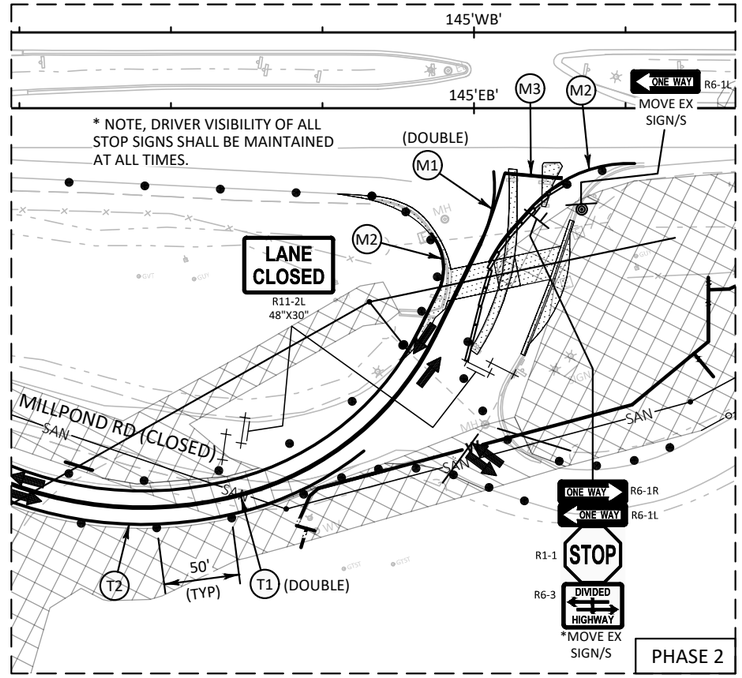
*MOVE EX SIGN/S

T2 50' (TYP) T1 (DOUBLE)

PHASE 1

FENCE SAFETY REQ'D (PED PROTECTION)

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1B - MILLPOND RD STORM SEWER CROSSING	SHEET 331	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 1B)_BLOCKED.DWG PLOTTED: 4/27/2022 11:02 AM PLOT BY : SEH LAYOUT NAME : 1B-PH1&2 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:
- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

N

LANDFILL DR

FENCE SAFETY REQ'D (WELL PROTECTION)

MAAHIC WAY

100' (TYP)

155'WB' 160'WB' USH 12/18 WB 165'WB'

155'EB' 160'EB' 165'EB'

USH 12/18 EB

100' (TYP)

154+00'EB'

169+00'EB'

W SAN

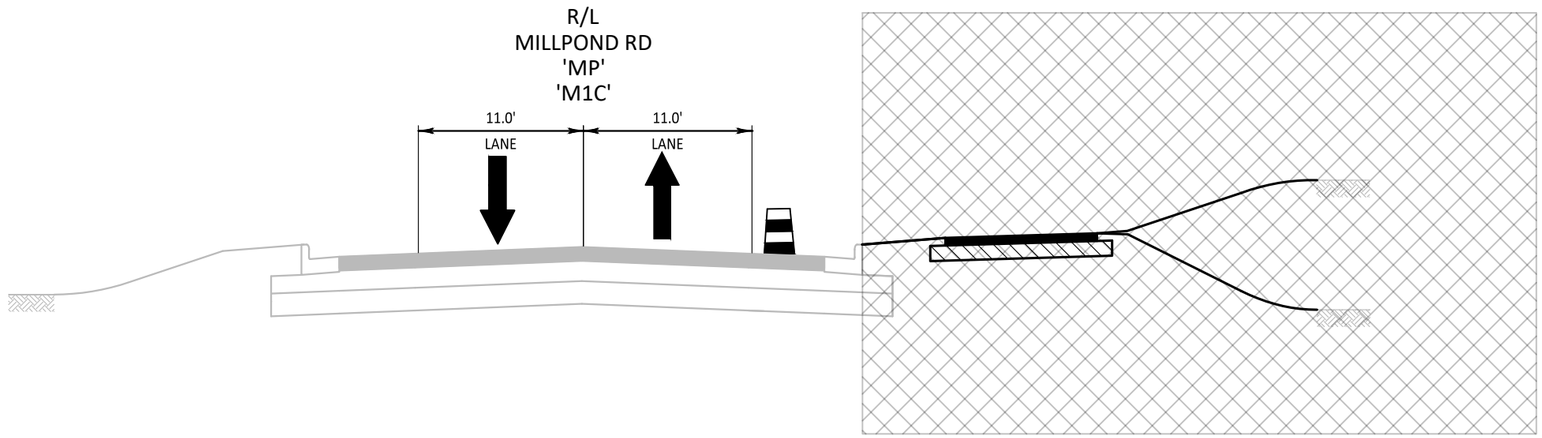
FENCE SAFETY REQ'D (PED PROTECTION)

FENCE SAFETY REQ'D (WELL PROTECTION)

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1B	SHEET 332	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 1B).DWG PLOT DATE : 3/20/2022 7:52 AM PLOT BY : SEH LAYOUT NAME : 05 PLOT SCALE : 1.0 IN = 100.0 FT

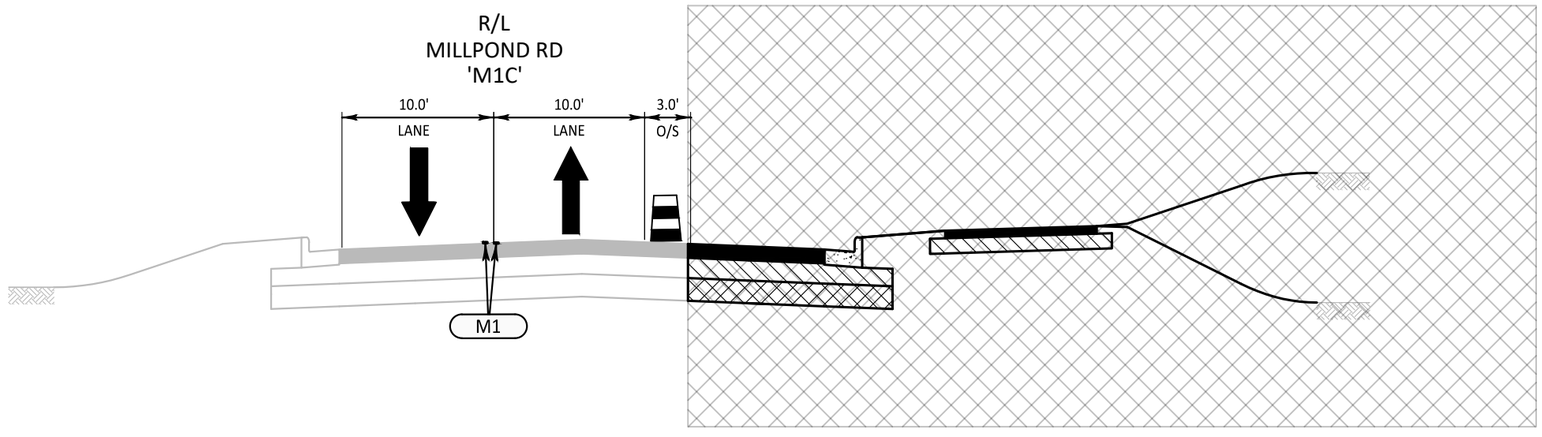
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL TYPICAL SECTION - MILLPOND RD STAGE 1C

STA 323+95'MP' - STA 327+15'MP'
CONSTRUCT MILLPOND RD.

KEYNOTE LEGEND: PAVEMENT MARKING	
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)



TRAFFIC CONTROL TYPICAL SECTION - MILLPOND RD (WEST LIMITS) STAGE 1C

STA 327+15'MP' - STA 330+95'MP'
CONSTRUCT MILLPOND RD.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL TYPICALS - STAGE 1C	SHEET 333 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025201-TC (TYPICAL SECTIONS).DWG PLOT DATE : 3/20/2022 7:22 AM PLOT BY : SEH LAYOUT NAME : 1C PLOT SCALE : 1.0 IN = 10.0 FT
WISDOT/CADDS SHEET 42

KEYNOTE LEGEND: PAVEMENT MARKING	
E1	TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

SUMMARY OF WORK FOR THIS STAGE:

TRAFFIC

1) USH 12/18: OPEN TO 2 LANES IN EACH DIRECTION. SINGLE LANE CLOSURES ALLOWED ONLY DURING OFF-PEAK TIMES. SHOULDER CLOSURES ALLOWED.
2) CTH AB: OPEN.
3) MILLPOND ROAD: TRAFFIC ON EXISTING AND NEW PAVEMENTS. TRAFFIC REDUCED TO 10-FOOT TRAVEL LANES AT THE WEST PROJECT LIMITS. MILLPOND ROAD EASTBOUND OUTSIDE SHOULDER CLOSED.
4) MILLPOND ROAD/LONG DRIVE SOUTH INTERSECTION: OPEN.

CONSTRUCTION

1) REMOVE TEMPORARY ROAD ON SOUTH SIDE OF MILLPOND ROAD.
2) CONSTRUCT REMAINING PORTIONS OF POND A AND DRAINAGE PIPES.
3) CONSTRUCT REMAINING PORTIONS OF MILLPOND ROAD TO STA 340+00'MP': INCLUDING ALL GRADING, PIPE WORK, CURB AND GUTTER, PAVEMENT, MULTI-USE PATH, PERMANENT PAVEMENT MARKING AND SIGNING.
4) COMPLETE NATIVE POLLINATOR MIX UPLAND AND MIX SWALE SEEDING.

USH 12/18 WB
130'WB'
135'WB'
135'EB'
130'EB'
USH 12/18 EB
125'EB'
139+00'EB'
N
ALL ACCESS TO BUSINESSES OPEN DURING CONSTRUCTION
FIXED MESSAGE SIGN (IN PLACE FROM PREVIOUS STAGE)
LONG DR (SOUTH)
MILLPOND RD
338'M1C'
336'M1C'
16'
334'M1C'
332'M1C'
330'M1C'
328'M1C'
326'M1C'
10'
10'
25' (TYP)
MAINTAIN 10-FOOT MINIMUM LANE WIDTHS
(DOUBLE) M1
LANE CLOSED
R11-2L 48"X30"
SIDEWALK CLOSED
R9-9
SIDEWALK CLOSURE AT THE SIDEWALK NEAR THE NORTHERN HO CHUNK ACCESS TO REMAIN IN PLACE FROM PREVIOUS STAGE
ROAD WORK AHEAD W20-1A
INSTALL 1000 FEET PRIOR TO WORK ZONE
FENCE SAFETY REQ'D (PED PROTECTION)

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1C	SHEET 334	E

2

2

ROAD WORK AHEAD W20-1A

LANDFILL DR

FENCE SAFETY REQ'D (WELL PROTECTION)

ROAD WORK AHEAD W20-1A

LONG DR (NORTH)

MAAHIC WAY

ALL ACCESS TO BUSINESSES OPEN DURING CONSTRUCTION

FIXED MESSAGE SIGN 120"X48"

IN PLACE FROM PREVIOUS STAGE

100' (TYP)

USH 12/18 WB

140'WB' 145'WB' 150'WB'

139+00'EB'

140'EB' 145'EB' 150'EB'

USH 12/18 EB

154+00'EB'

ROAD WORK AHEAD W20-1A

(DOUBLE) M1

340'M1C'

MILLPOND RD

342'M1C'

(DOUBLE) E1

344'M1C'

ROAD WORK AHEAD W20-1A

FENCE SAFETY REQ'D (PED PROTECTION)

KEYNOTE LEGEND: PAVEMENT MARKING

E1	TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1C	SHEET 335	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 1C).DWG PLOT DATE : 4/27/2022 1:16 PM PLOT BY : SEH LAYOUT NAME : 02 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 7 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:
- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

N

LANDFILL DR

MAAHIC WAY

FENCE SAFETY REQ'D (WELL PROTECTION)

FENCE SAFETY REQ'D (PED PROTECTION)

FENCE SAFETY REQ'D (WELL PROTECTION)

100' (TYP)

100' (TYP)

USH 12/18 WB

USH 12/18 EB

155'WB' 160'WB' 165'WB'

155'EB' 160'EB' 165'EB'

154+00'EB'

169+00'EB'

MH MWEL SS POST COUNTER INL GV SAN W GOLF COURSE GOLF GREEN

2

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1C	SHEET 336	E

2

2

COUNTY AB

COMMERCIAL ENTRANCE

PRIVATE ENTRANCE

EX. ROW

LUDS LANE

EX. ROW

COMMERCIAL ENTRANCE

R11-3
60" X 30"
ROAD CLOSED
* MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

NOTE
PLACE SAFETY FENCE A MINIMUM OF 25' EACH DIRECTION FROM WELL.

TLE

PROPOSED ROW

ROAD CLOSED AHEAD

W20-3A
(48"X48")

ROAD CLOSED 500 FT

W20-3D
(48"X48")

PROPOSED LUDS LANE

N

WELL

LEGEND

- APPROXIMATE WORK ZONE

- PROPOSED TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT

- PROPOSED TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT

COUNTY AB

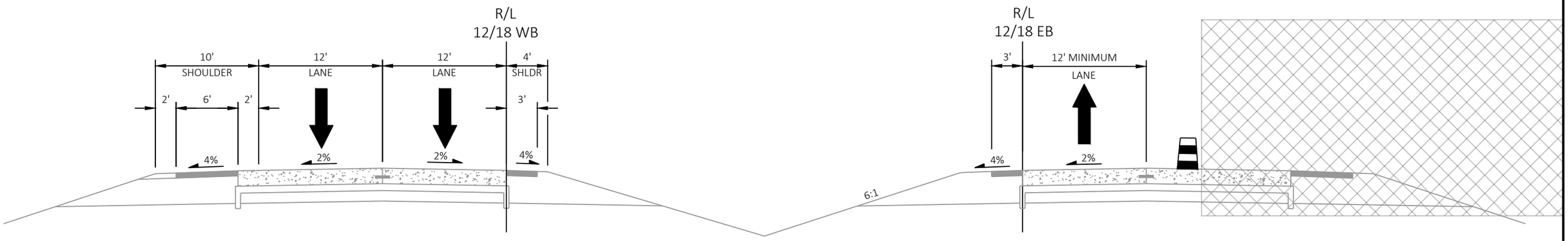
PROJECT NO: 3080-01-76	HWY: CTH AB	COUNTY: DANE	TRAFFIC CONTROL - LUDS LANE - STAGE 1	SHEET 337	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_026011_STG 1 (LUDS LANE).DWG
LAYOUT NAME - LUDS LANE

PLOT DATE : 1/7/2022 11:41 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

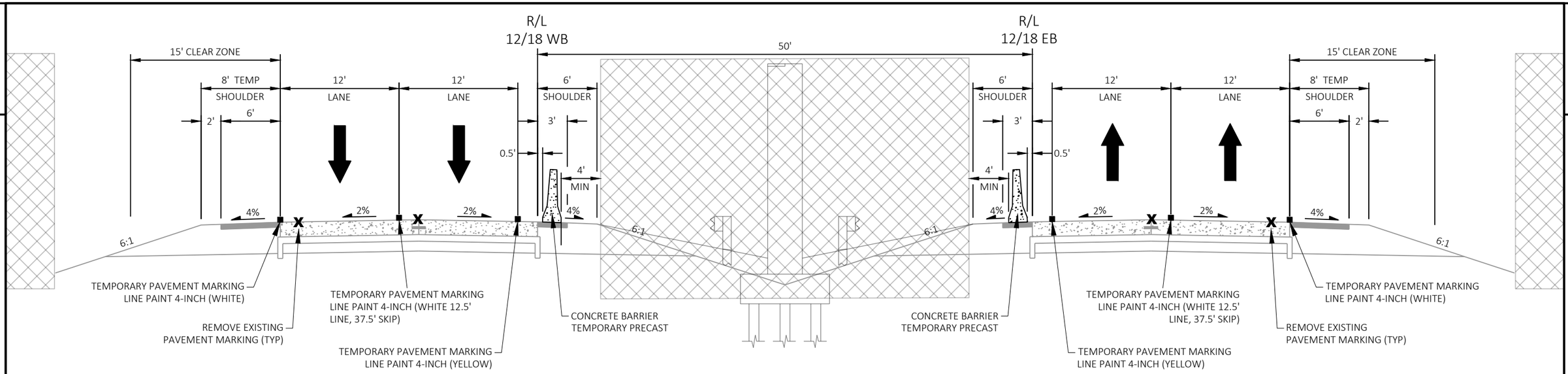
2



TRAFFIC CONTROL TYPICAL SECTION - USH 12/18 - STAGE 2

- CONSTRUCT USH 12/18 EB SHOULDER AND BARRIER WALL BETWEEN MILLPOND ROAD AND CTH AB
- CONCRETE REPLACEMENT AND REPAIR

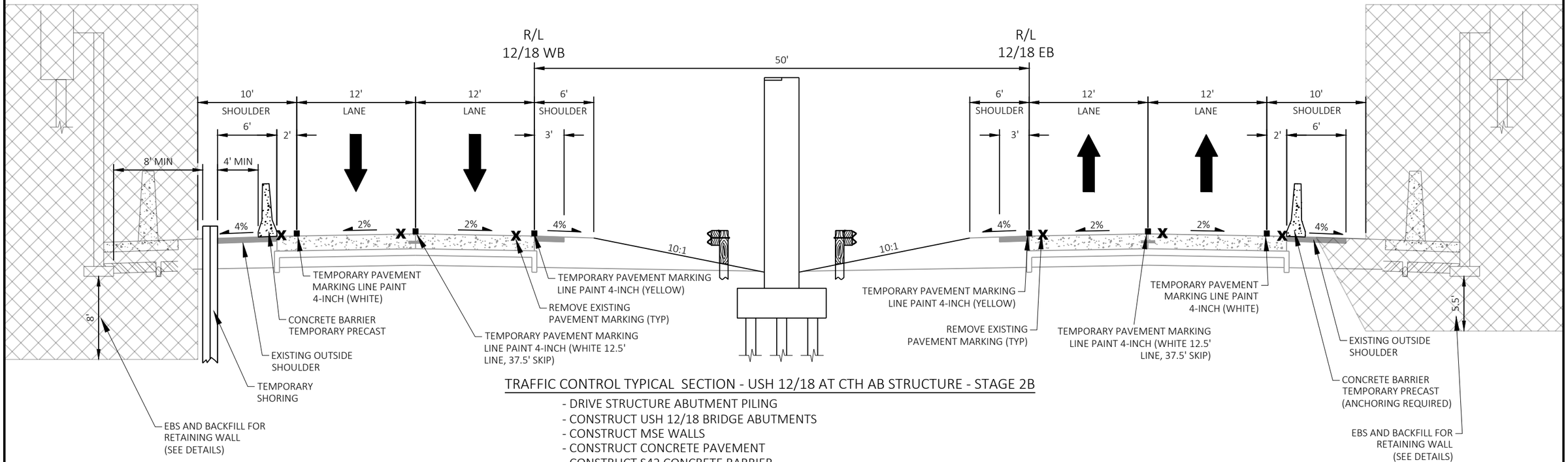
PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING OVERVIEW - STAGE 2	SHEET 338	E



TRAFFIC CONTROL TYPICAL SECTION - USH 12/18 AT CTH AB STRUCTURE - STAGE 2

- CONSTRUCT BRIDGE PIERS IN MEDIAN
- INSTALL STEEL THRIE BEAM BULL NOSE TERMINAL IN MEDIAN
- CONSTRUCTION ON OUTSIDE, BEYOND 15' CLEAR ZONE

NOTE:
TEMPORARY CONCRETE BARRIER SHALL REMAIN IN PLACE UNTIL GUARDRAIL IS INSTALLED AT DIRECTION OF THE ENGINEER.



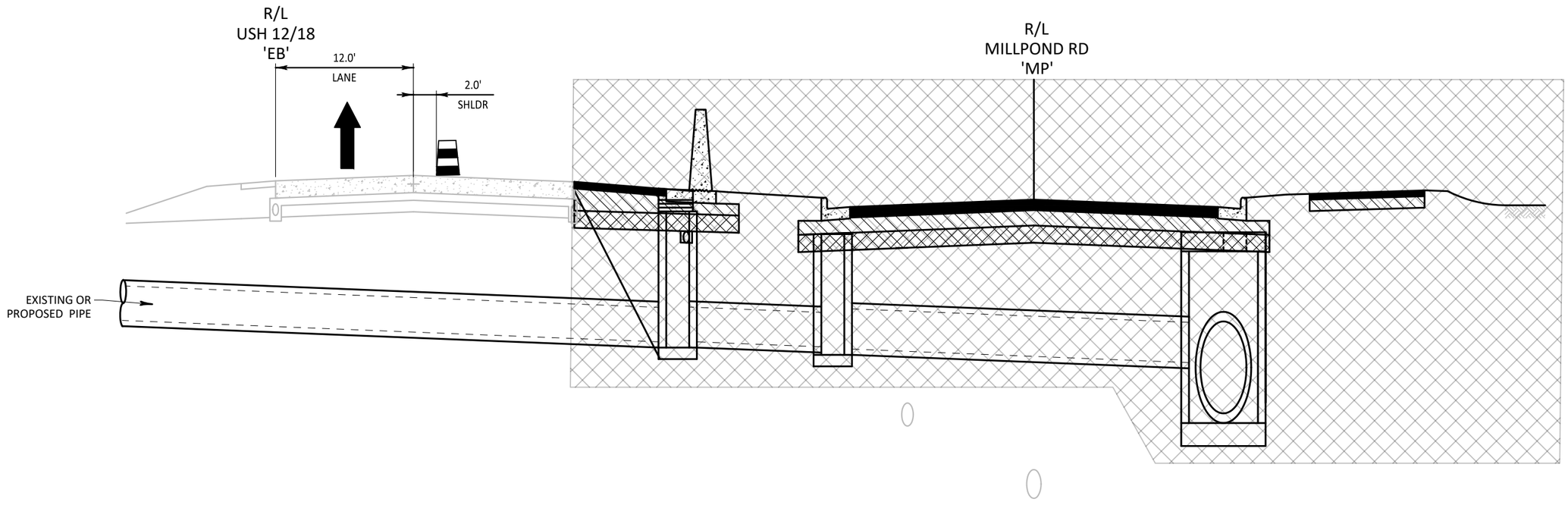
TRAFFIC CONTROL TYPICAL SECTION - USH 12/18 AT CTH AB STRUCTURE - STAGE 2B

- DRIVE STRUCTURE ABUTMENT PILING
- CONSTRUCT USH 12/18 BRIDGE ABUTMENTS
- CONSTRUCT MSE WALLS
- CONSTRUCT CONCRETE PAVEMENT
- CONSTRUCT S42 CONCRETE BARRIER
- SEAT STRUCTURE BEAMS FOLLOWING CONSTRUCTION ITEMS LISTED ABOVE

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING OVERVIEW - STAGE 2	SHEET 339	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_026020_STG2_TS.DWG
LAYOUT NAME - TS - STG 2 (AT OVERPASS)
PLOT DATE : 1/30/2022 4:58 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : Custom
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL TYPICAL SECTION - EB USH 12/18 & MILLPOND RD - STAGES 2

CONSTRUCT THE EB US 12/18 OUTSIDE SHOULDER. CONSTRUCT MILLPOND RD, YAHARA HILLS GOLF COURSE ACCESS, AND MAINTENANCE ROADS.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL TYPICALS - STAGES 2	SHEET 340	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025201-TC (TYPICAL SECTIONS).DWG PLOT DATE : 3/19/2022 12:09 PM PLOT BY : SEH LAYOUT NAME : 2 PLOT SCALE : 1.0 IN = 10.0 FT

WISDOT/CADDS SHEET 42

2

SUMMARY OF WORK FOR THIS STAGE:

TRAFFIC

1) USH 12/18: EB OUTSIDE LANE CLOSURE FROM STA 125+00'EB' TO STA 181+00'EB'. NO SINGLE LANE CLOSURES ALLOWED THROUGH THE CTH AB INTERSECTION. WORK REQUIRING A LANE CLOSURE ON USH 12/18 THAT WILL EXTEND THROUGH CTH AB SHALL ONLY OCCUR DURING CTH AB NIGHTTIME CLOSURES. EB AND WB OUTSIDE SHOULDER CLOSURES. TEMPORARY BARRIER WALL ON THE INSIDE AT STRUCTURE B-13-0893, WITH LANE SHIFTS. NIGHTTIME FULL CLOSURES OF USH 12/18 FOR PIPE CROSSINGS . SEE ROADWAY CLOSURE CONFIGURATIONS.
2) CTH AB: OPEN.
3) MILLPOND ROAD: OPEN.
4) LONG DRIVE/MAAHIC WAY (WEST): TRAFFIC ON EXISTING PAVEMENTS. FLAGGING OPERATIONS MAY OCCUR.

CONSTRUCTION

1) BUILD BRIDGE PIER OF B-13-0893, INSTALL GUARDRAIL IN MEDIAN OF USH 12/18.
2) DEWATER FOR POND B CONSTRUCTION.
6) CONSTRUCT POND B NORTH PORTION AND CLAY LINER.
7) DEWATER POND EX-N AND POND EX-S.
8) CONSTRUCT EARTHWORK FOR NEW INTERCHANGE AND INSTALL DRAINAGE PIPES ON THE NORTH AND SOUTH SIDES OF USH 12/18.
9) INSTALL PIPE CROSSINGS AND CASINGS OF USH 12/18, WITH EXCEPTION OF CULVERT PIPE AT STA 187+00'EB'.
10) INSTALL REMAINING SANITARY SEWER AND WATER MAIN ALONG MILLPOND ROAD.
11) INSTALL SANITARY SEWER AND WATER MAIN ALONG MAAHIC WAY. END STAGE 2 WORK PRIOR TO EXISTING CTH AB.
12) INSTALL 48-INCH/42-INCH STORM SEWER TO POND B, INCLUDING ALL LATERALS.
13) CONSTRUCT MILLPOND ROAD EAST OF THE EXISTING MILLPOND ROAD AND USH 12/18 INTERSECTION TO EXISTING CTH AB.
14) CONSTRUCT PIPES AND EARTHWORK ON MAAHIC WAY TO STA 185+00'WB'. DO NOT CLOSE OR CROSS THE NORTH LEG OF CTH AB, LONG DRIVE, OR LANDFILL DRIVEWAY.

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

N

USH 12/18 WB

WB TO NB EXIT RAMP

120'WB'

EB TO NB EXIT RAMP

115'EB'

120'EB'

USH 12/18 EB

123+65'EB'

NB TO EB ENTRANCE RAMP

SEE PLAN CONSTRUCTION DETAIL, TRAFFIC CONTROL, ADVANCE WARNING TEMPORARY RUMBLE STRIP PLACEMENT FOR ADVANCED WARNING SIGNING

NINE RUMBLE STRIPS WITH 5 FOOT SPACING BETWEEN EACH INDIVIDUAL STRIP

NINE RUMBLE STRIPS WITH 1.5 FOOT SPACING BETWEEN EACH INDIVIDUAL STRIP

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2	SHEET 341	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 2A).DWG PLOT DATE : 3/19/2022 12:10 PM PLOT BY : SEH LAYOUT NAME : 2-0 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

KEYNOTE LEGEND: PAVEMENT MARKING	
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
M3	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)

MAAHIC WAY

ROAD WORK AHEAD W20-1A

LOOSE GRAVEL W08-7

125'WB'

USH 12/18 WB

130'WB'

135'WB'

135'EB'

130'EB'

USH 12/18 EB

+52

+79

139+00'EB'

+36

50' (TYP)

M2

LANE CLOSED
R11-2L
48"X30"

BEGIN RIGHT TURN LANE
R3-20R
36"x54"

25' (TYP)

SEE SDD 15D12 FOR ADVANCED WARNING SIGNING

125'EB'

123+65'EB'

ALL ACCESS TO BUSINESSES OPEN DURING CONSTRUCTION

FIXED MESSAGE SIGN
(IN PLACE FROM PREVIOUS STAGE)

LONG DR (SOUTH)

MILLPOND RD

FILLER CAPS

CANOPY

SIDEWALK CLOSED
R9-9
24"X12"

TEMPORARY PEDESTRIAN BARRICADE REQ'D

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:
- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD W20-1A)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2	SHEET 342	E

2

2

N

LANDFILL DR

FLAGGING OPERATION REQ'D
AVOID QUEUING BACK ON USH 12/18

FENCE SAFETY REQ'D
(WELL PROTECTION)

ROAD CLOSED
R11-2
48"X30"

MAAHIC WAY

ALL ACCESS TO BUSINESSES OPEN DURING CONSTRUCTION

FIXED MESSAGE SIGN
120"X48"

LOOSE GRAVEL
W8-7

100'
(TYP)

USH 12/18 WB

140'WB'
145'WB'
150'WB'

IN PLACE FROM PREVIOUS STAGE

25'
SPACING

140'EB'
145'EB'
150'EB'

+79
139+00'EB'

+60

154+00'EB'

USH 12/18 EB

M3
A1
M2

TRAFFIC CONTROL FLEXIBLE
TUBULAR MARKER POSTS (TYP)

50'
(TYP)

LANE CLOSED
R11-2b
48"X30"

MILLPOND RD

GOLF COURSE ACCESS

ROAD CLOSED
R11-2
48"X30"

FLAGGING OPERATION REQ'D
MAINTAIN ACCESS TO THE GOLF COURSE AT ALL TIMES

ROAD WORK AHEAD
W20-1A

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

KEYNOTE LEGEND: PAVEMENT MARKING

M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
M3	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
A1	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (WHITE)

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2	SHEET 343	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 2A).DWG PLOT DATE : 5/4/2022 9:48 AM PLOT BY : SEH LAYOUT NAME : 2-2 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

N

LANDFILL DR

MH MH MH

MWEL MWEL MWEL MWEL

FENCE SAFETY REQ'D
(WELL PROTECTION)

ROAD CLOSED
R11-2
48"X30"

POST COUNTER

SS

100'
(TYP)

100'
(TYP)

154+00'EB'

169+00'EB'

155'WB' 160'WB' USH 12/18 WB 165'WB'

155'EB' 160'EB' 165'EB'

USH 12/18 EB

100'
(TYP)

W SAN

LANE CLOSED
R11-2L
48"X30"

ROAD CLOSED
R11-2
48"X30"

FENCE SAFETY REQ'D
(PED PROTECTION)

GOLF COURSE GOLF GREEN

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2	SHEET 344	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 2A).DWG PLOT DATE : 3/19/2022 12:10 PM PLOT BY : SEH LAYOUT NAME : 2-3 PLOT SCALE : 1.0 IN = 100.0 FT

2

N

FENCE SAFETY REQ'D
(WELL PROTECTION)

CULVERT PIPE TEMPORARY 18-INCH REQ'D
(CONNECT TO EXISTING)

169+00'EB'

184+00'EB'

170'WB'

175'WB'

USH 12/18 WB

180'WB'

170'EB'

175'EB'

100'
(TYP)

USH 12/18 EB

180'EB'

+80

+05

M2

50'
(TYP)

SAN

W

MW-AB

LANE
CLOSED
R11-2L
48"X30"

WO1-4BR
48"X48"

FENCE SAFETY REQ'D
(PED PROTECTION)

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

KEYNOTE LEGEND: PAVEMENT MARKING	
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2	SHEET 345	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 2A).DWG PLOT DATE : 3/19/2022 12:11 PM PLOT BY : SEH LAYOUT NAME : 2-4 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

KEYNOTE LEGEND: PAVEMENT MARKING	
T1	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
T2	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
T4	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE, SKIPS)
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
A1	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (WHITE)
A2	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (YELLOW)

RESTORE EXISTING LANE MARKINGS AT THE END OF STAGE 2A WITH TEMPORARY MARKING LINE PAINT 4-INCH

ROAD CLOSED
R11-2
48"X30"

CTH AB
24'XAB'
27'XAB'
20'XAB'
18'XAB'

USH 12/18 WB
USH 12/18 EB

185'WB'
190'WB'
195'WB'
185'EB'
190'EB'
195'EB'

110'
SHIFT TAPER
+21
+31
+10
+24

100'
(TYP)
50'
(TYP)
25'
SPACING

M2
T4
T2
T1
M1
A2
A1

W01-6
48"X24"

W1-4BL
48"X48"

184+00'EB'
199+00'EB'

DITCH TO DRAIN SOUTH TO POND B

MAINTAIN EXISTING DRAINAGE

STAGED CONSTRUCTION OF CULVERT PIPES

MATCH LINE 16+00'XAB'

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2A	SHEET 346	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 2A).DWG PLOT DATE : 5/4/2022 9:49 AM PLOT BY : SEH LAYOUT NAME : 2A-1 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

2

KEYNOTE LEGEND: PAVEMENT MARKING	
T1	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
T2	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
T4	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE, SKIPS)
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
A1	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (WHITE)
A2	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (YELLOW)

RESTORE EXISTING LANE MARKINGS AT THE END OF STAGE 2A WITH TEMPORARY MARKING LINE PAINT 4-INCH

FENCE SAFETY REQ'D (SITE PROTECTION)

N

INLET

SS

W1-4BL 48"X48"

WO1-6 48"X24"

110' SHIFT TAPER

+37

+47

M2

A1

T4

T2

T1

M1

A2

200'WB'

205'WB'

210'WB'

100' (TYP)

REMOVE MEDIAN ACCESS

200'EB'

205'EB'

25' SPACING

210'EB'

100' (TYP)

199+00'EB'

214+00'EB'

T4

+37

M2

+47

110' SHIFT TAPER

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2A	SHEET 347	E

2

N

W1-4BR
48"X48"

100'
(TYP)

50'
(TYP)

SEE SDD 15D27
FOR ADVANCED
WARNING SIGNING

215'WB'

220'WB'

225'WB'

215'EB'

220'EB'

225'EB'

214+00'EB'

FLAG

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2A	SHEET 348	E

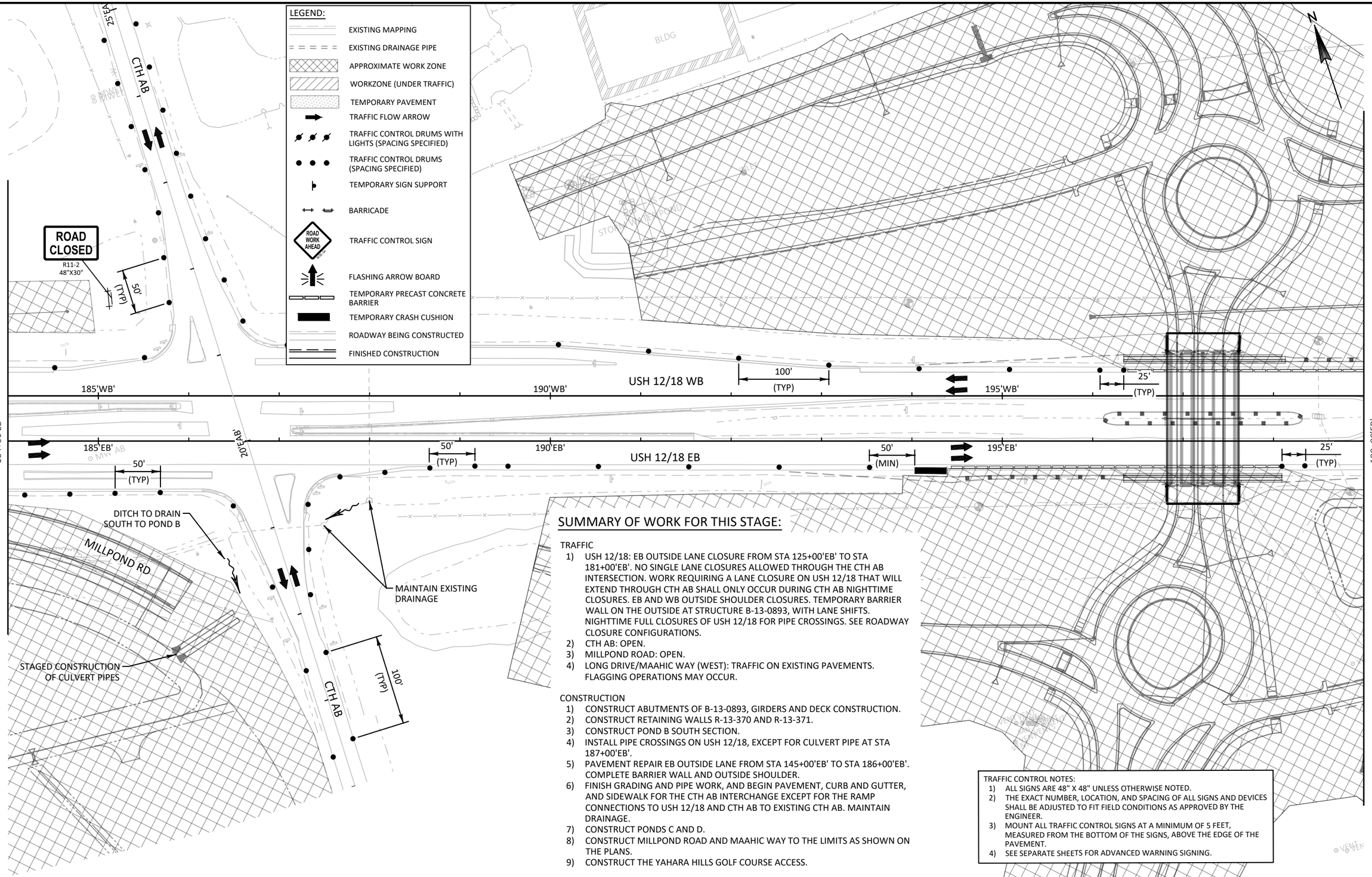
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 2A).DWG PLOT DATE : 3/19/2022 12:12 PM PLOT BY : SEH LAYOUT NAME : 2A-3 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION



SUMMARY OF WORK FOR THIS STAGE:

TRAFFIC

1) USH 12/18: EB OUTSIDE LANE CLOSURE FROM STA 125+00'EB' TO STA 181+00'EB'. NO SINGLE LANE CLOSURES ALLOWED THROUGH THE CTH AB INTERSECTION. WORK REQUIRING A LANE CLOSURE ON USH 12/18 THAT WILL EXTEND THROUGH CTH AB SHALL ONLY OCCUR DURING CTH AB NIGHTTIME CLOSURES. EB AND WB OUTSIDE SHOULDER CLOSURES. TEMPORARY BARRIER WALL ON THE OUTSIDE AT STRUCTURE B-13-0893, WITH LANE SHIFTS. NIGHTTIME FULL CLOSURES OF USH 12/18 FOR PIPE CROSSINGS. SEE ROADWAY CLOSURE CONFIGURATIONS.
2) CTH AB: OPEN.
3) MILLPOND ROAD: OPEN.
4) LONG DRIVE/MAAHIC WAY (WEST): TRAFFIC ON EXISTING PAVEMENTS. FLAGGING OPERATIONS MAY OCCUR.

CONSTRUCTION

1) CONSTRUCT ABUTMENTS OF B-13-0893, GIRDERS AND DECK CONSTRUCTION.
2) CONSTRUCT RETAINING WALLS R-13-370 AND R-13-371.
3) CONSTRUCT POND B SOUTH SECTION.
4) INSTALL PIPE CROSSINGS ON USH 12/18, EXCEPT FOR CULVERT PIPE AT STA 187+00'EB'.
5) PAVEMENT REPAIR EB OUTSIDE LANE FROM STA 145+00'EB' TO STA 186+00'EB'. COMPLETE BARRIER WALL AND OUTSIDE SHOULDER.
6) FINISH GRADING AND PIPE WORK, AND BEGIN PAVEMENT, CURB AND GUTTER, AND SIDEWALK FOR THE CTH AB INTERCHANGE EXCEPT FOR THE RAMP CONNECTIONS TO USH 12/18 AND CTH AB TO EXISTING CTH AB. MAINTAIN DRAINAGE.
7) CONSTRUCT PONDS C AND D.
8) CONSTRUCT MILLPOND ROAD AND MAAHIC WAY TO THE LIMITS AS SHOWN ON THE PLANS.
9) CONSTRUCT THE YAHARA HILLS GOLF COURSE ACCESS.

TRAFFIC CONTROL NOTES:

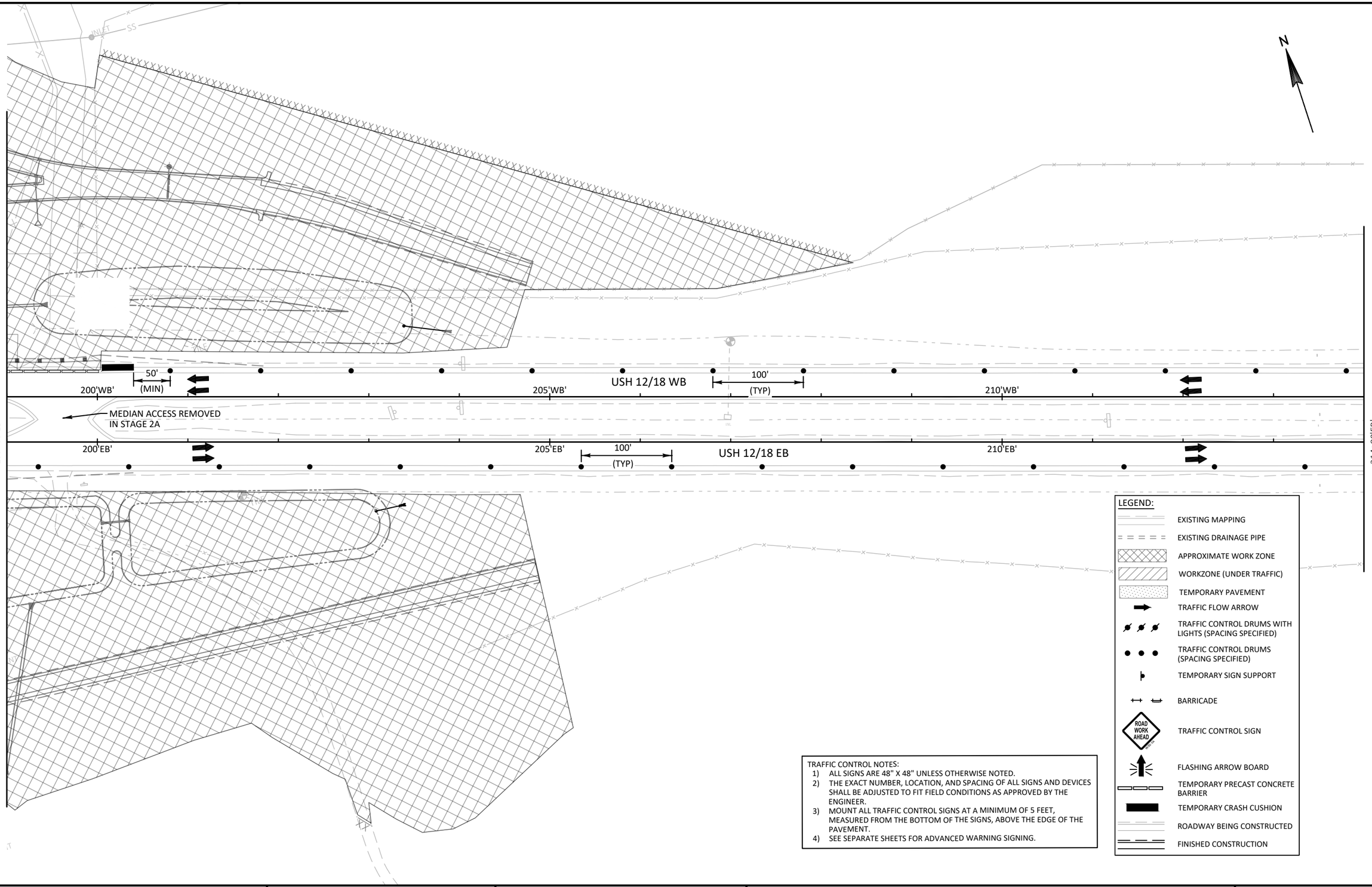
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2B	SHEET 349	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 2B).DWG PLOT DATE : 3/10/2022 8:17 AM PLOT BY : SEH LAYOUT NAME : 2B-1 PLOT SCALE : 1.0 IN = ##### FT
WISDOT/CADDS SHEET 42

2

2



TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2B	SHEET 350	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 2B).DWG PLOT DATE : 3/10/2022 8:17 AM PLOT BY : SEH LAYOUT NAME : 2B-2 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

2

N

100'
(TYP)

25'
(TYP)

SEE SDD 15D27
FOR ADVANCED
WARNING SIGNING

215'WB'

220'WB'

USH 12/18 WB

225'WB'

214+00'EB'

215'EB'

220'EB'

USH 12/18 EB

225'EB'

FLAG

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

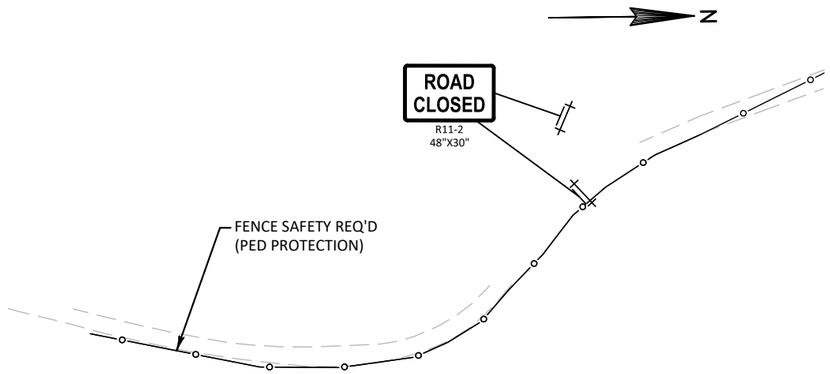
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

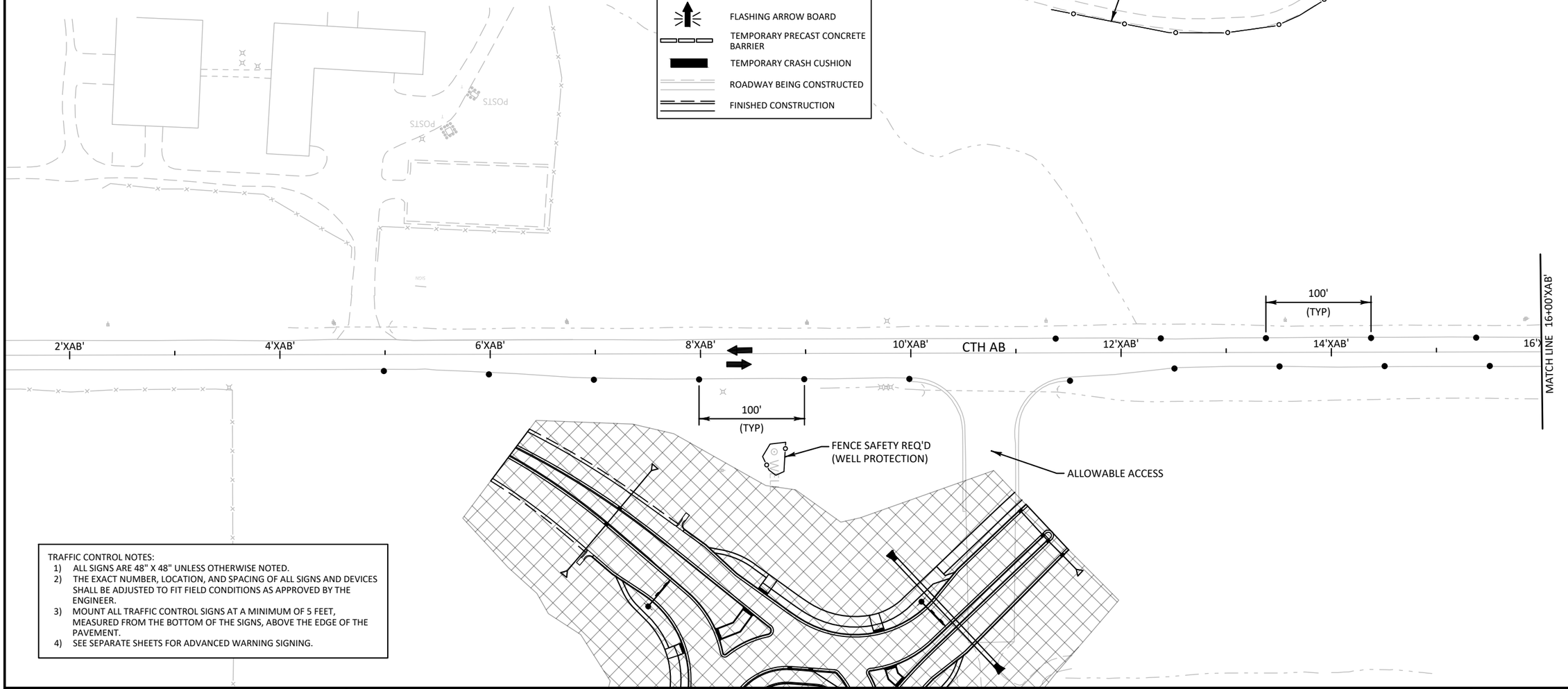
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2B	SHEET 351	E

2

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION





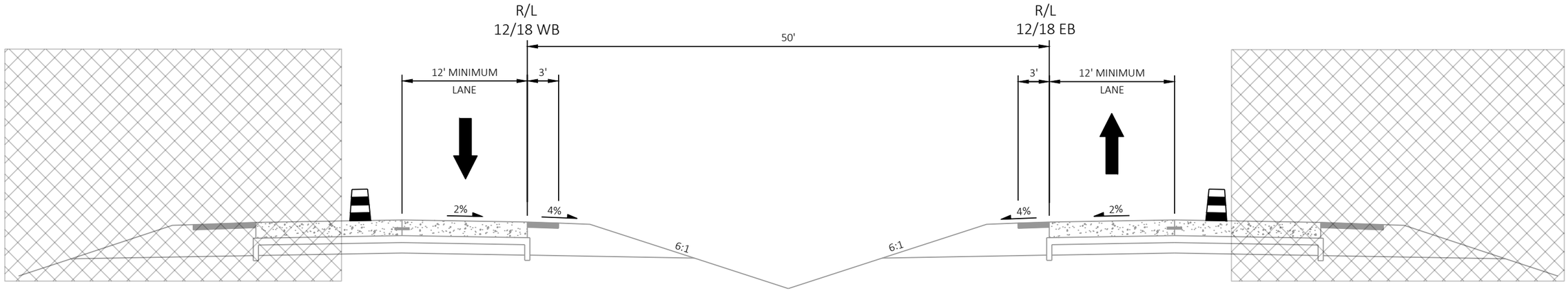
TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2	SHEET 352	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 2A).DWG PLOT DATE : 3/10/2022 8:16 AM PLOT BY : SEH LAYOUT NAME : 2-5 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

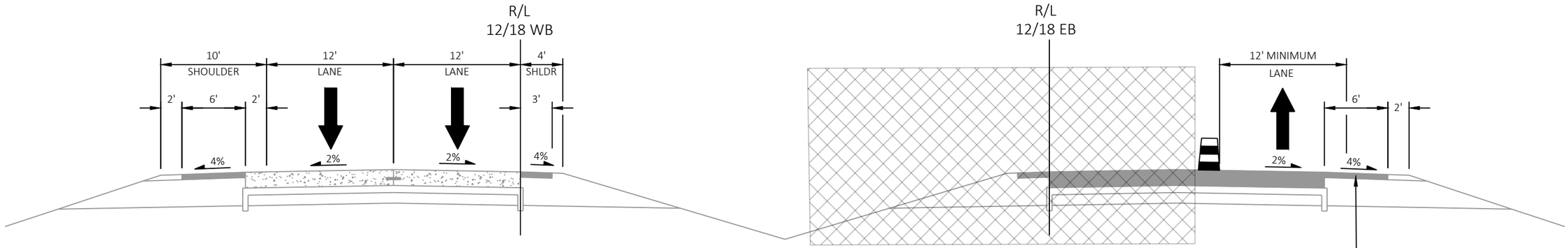


TRAFFIC CONTROL TYPICAL SECTION - USH 12/18 - STAGE 3

- CONSTRUCT RAMP CONNECTIONS TO USH 12/18
- CONCRETE PAVEMENT REPLACEMENT AND REPAIR

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING OVERVIEW - STAGE 3	SHEET 353	E

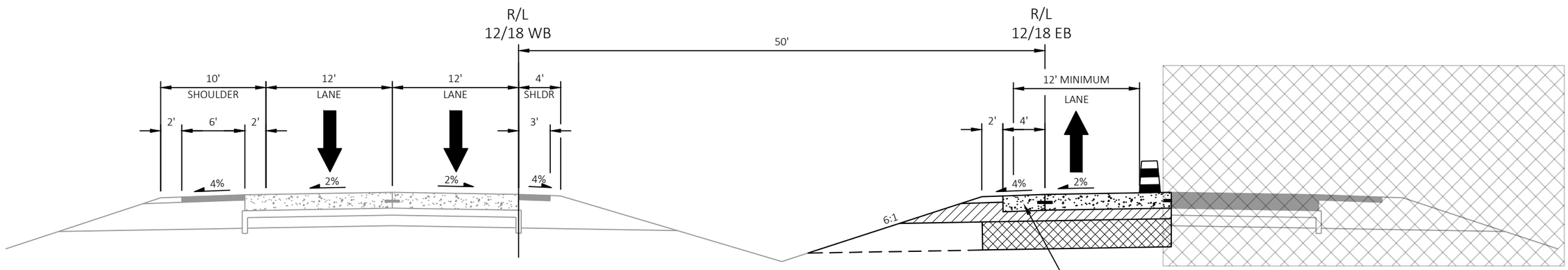
2



TRAFFIC CONTROL TYPICAL SECTION - USH 12/18 - STAGE 3A

- REPLACE INSIDE LANE AND SHOULDER
- DO NOT LEAVE >2" DROP OFF OR <3:1 SLOPE AT END OF WORK DAY

PRIOR TO SHIFTING TRAFFIC TO STAGE 3A, MILL ASPHALTIC SURFACE AT A 2-INCH DEPTH FOR THE EXISTING 6-FOOT SHOULDER WIDTH FROM STA 209+00'EB' TO STA 227+00'EB', AND OVERLAY WITH 2 INCHES OF ASPHALTIC SURFACE.



TRAFFIC CONTROL TYPICAL SECTION - USH 12/18 - STAGE 3B

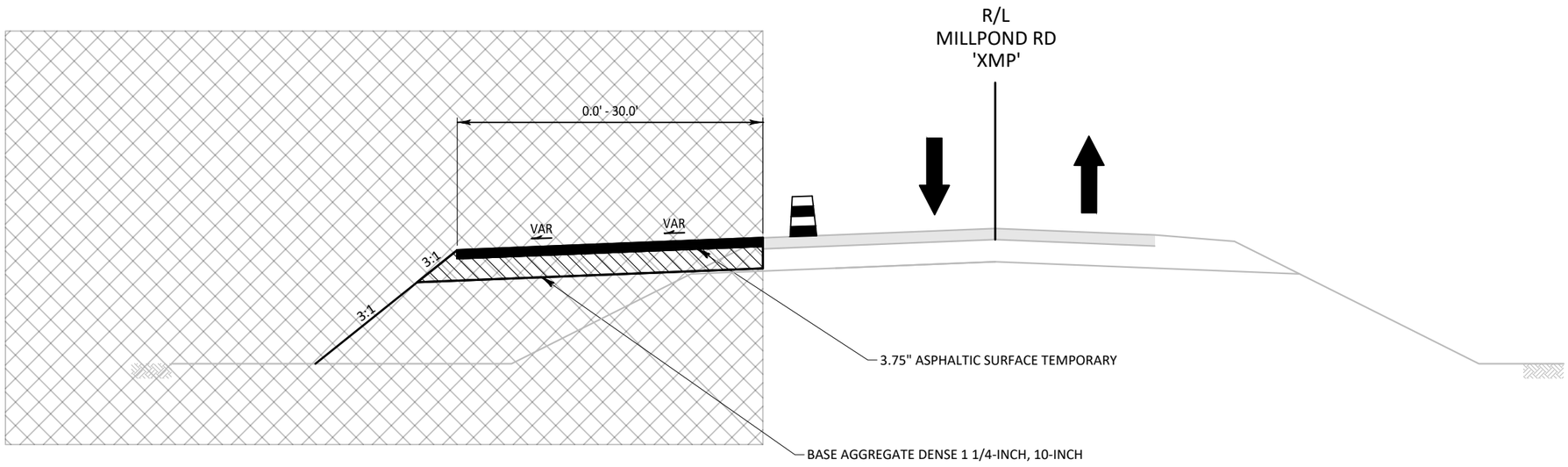
- REPLACE OUTSIDE LANE AND SHOULDER
- DO NOT LEAVE >2" DROP OFF OR <3:1 SLOPE AT END OF WORK DAY

PRIOR TO SHIFTING TRAFFIC TO STAGE 3B, MILL ASPHALTIC SURFACE AT A 3.5-INCH DEPTH FOR THE EXISTING 3-FOOT SHOULDER WIDTH FROM STA 209+00'EB' TO STA 215+48'EB' AND FROM STA 244+00'EB' TO STA 227+00'EB'. SHAPE SHOULDER AND PLACE FINAL 3.5 INCHES OF HMA PAVEMENT 4 MT 58-28 S AT A 4-FOOT WIDTH.

STA 215+48'EB' TO STA 244+00'EB'

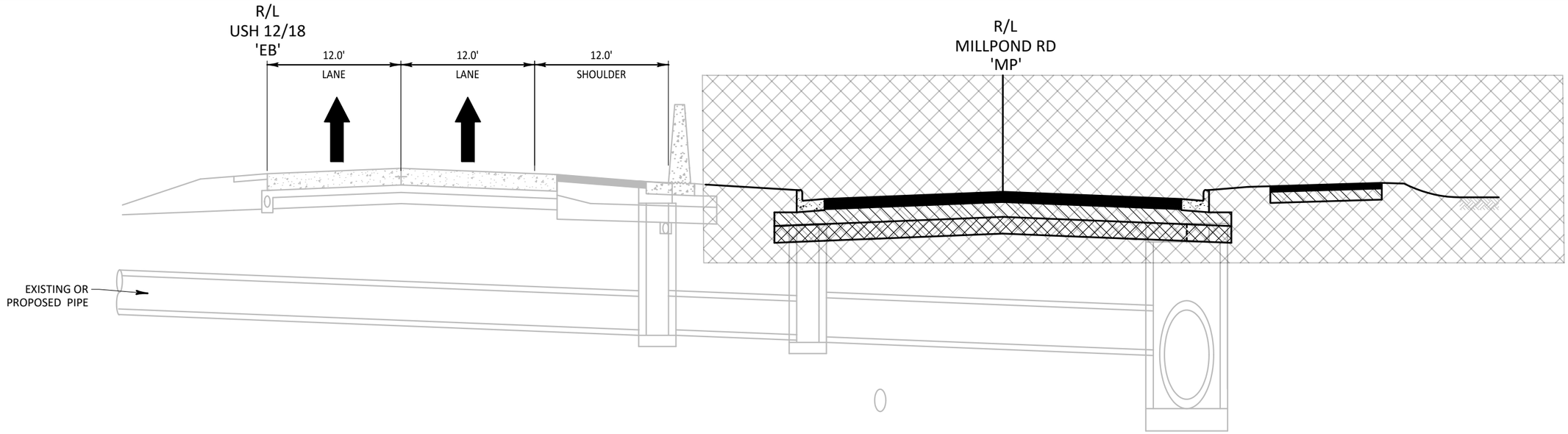
- FULL PAVEMENT WIDTH REPLACEMENT
- PAVE MEDIAN SHOULDER AS CONCRETE
- RUMBLE STRIPS TO BE ADDED AFTER STAGE 3B

2



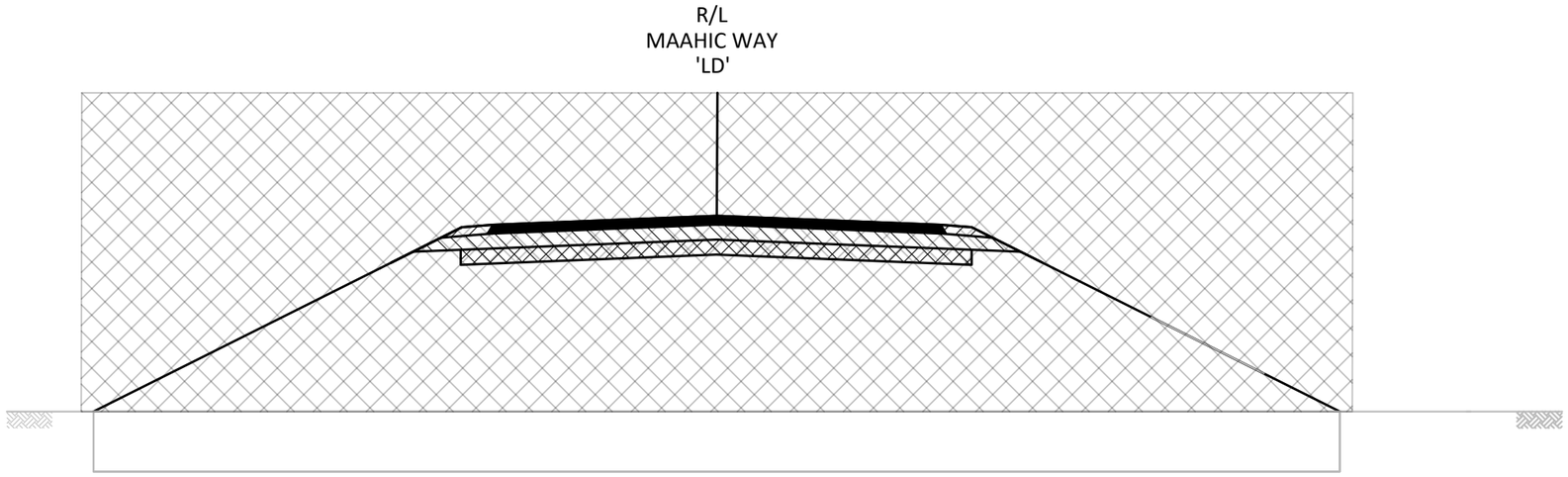
TRAFFIC CONTROL TYPICAL SECTION - MILLPOND RD NORTH BYPASS ROAD STAGE 3A

-CONSTRUCT MILLPOND RD TEMPORARY WIDENING AND TEMPORARY NORTH BYPASS ROAD AT THE LOCATIONS THE PLANS SHOW.



TRAFFIC CONTROL TYPICAL SECTION - EB USH 12/18 & MILLPOND RD - STAGE 3

CONSTRUCT MILLPOND RD.



TRAFFIC CONTROL TYPICAL SECTION - MAAHIC WAY SURCHARGE EARTH EMBANKMENT AREA STAGES 3

REGRADE SURCHARGE EARTH EMBANKMENT AREA ON MAAHIC WAY DUE TO SETTLEMENT AND CONSTRUCT MAAHIC WAY.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL TYPICALS - STAGE 3	SHEET 356 E

2

MAAHIC WAY

ROAD WORK AHEAD W20-1A

LOOSE GRAVEL W08-7

USH 12/18 WB

125'WB'

130'WB'

135'WB'

135'EB'

130'EB'

USH 12/18 EB

125'EB'

139+00'EB'

N

SEE PLAN CONSTRUCTION DETAIL, TRAFFIC CONTROL, ADVANCE WARNING TEMPORARY RUMBLE STRIP PLACEMENT FOR ADVANCED WARNING SIGNING

NINE RUMBLE STRIPS WITH 10 FOOT SPACING BETWEEN EACH INDIVIDUAL STRIP

ALL ACCESS TO BUSINESSES OPEN DURING CONSTRUCTION

FIXED MESSAGE SIGN 120"X48"

LONG DR

MILLPOND RD

SIDEWALK CLOSED

TEMPORARY PEDESTRIAN BARRICADE AND SIGN IN PLACE FROM PREVIOUS STAGE

SUMMARY OF WORK FOR THIS STAGE:

TRAFFIC

1) USH 12/18: EB OUTSIDE LANE CLOSURE FROM STA 176+00'EB' TO 225+00'EB', WITH SHIFT OCCURING AT STA 206+00'EB' TO INSIDE LANE CLOSURE. WB OUTSIDE LANE CLOSURE FROM STA 219+00'WB' TO 172+00'WB'. OUTSIDE SHOULDER CLOSURES AS SHOWN. NIGHTTIME FULL CLOSURES OF USH 12/18 FOR PIPE CROSSING. SEE ROADWAY CLOSURE CONFIGURATIONS.
2) CTH AB: CLOSED.
3) MILLPOND ROAD: OPEN
4) LONG DRIVE/MAAHIC WAY (WEST): TRAFFIC ON EXISTING AND ROADWAYS BEING BUILT UNDER TRAFFIC WITH FLAGGING REQUIRED.
5) LANDFILL DRIVE: NO CLOSURES OR FLAGGING WHILE LANDFILL IS OPEN. EMERGENCY ACCESS TO BE MAINTAINED TO LANDFILL GAS FACILITY AT ALL TIMES.

CONSTRUCTION

1) INSTALL USH 12/18 PIPE CROSSING AT STATION 187+00'EB'.
2) INSTALL SANITARY SEWER AND WATER MAIN ALONG NORTH LEG OF CTH AB.
3) DEWATER COUNTY POND AND COMPLETE POND MODIFICATIONS.
4) CONSTRUCT OUTSIDE SHOULDERS OF USH 12/18 (STATION 186+00'EB' TO STATION 204+00'EB').
6) MILL AND OVERLAY OUTSIDE SHOULDER FROM STATION 209+00'EB' TO 227+00'EB'.
7) CONSTRUCT USH 12/18 EB PAVEMENT REPLACEMENT, INSIDE LANE STATION 215+48'EB' TO STATION 224+00'EB'.
8) MILL AND CONSTRUCT INSIDE SHOULDER FROM STATION 209+00'EB' TO STATION 215+48'EB' AND STATION 224+00'EB' TO STATION 227+00'EB'.
9) CONSTRUCT RAMP A, C, AND D CONNECTIONS TO USH 12/18 AND CONNECTION TO EXISTING CTH AB.
10) CONTINUE CONSTRUCTION ON MILLPOND ROAD INCLUDING CONNECTION TO CTH AB.
11) CONTINUE CONSTRUCTION ON MAAHIC WAY THROUGH THE EXISTING LONG DRIVE AND LANDFILL DRIVE INTERSECTIONS.
12) CONSTRUCT CTH AB AND MAAHIC WAY INTERSECTION.
13) CONSTRUCT TEMPORARY ROAD ON NORTH SIDE OF THE MILLPOND ROAD/RAMP E ROUNDABOUT.

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3	SHEET 357	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 3A).DWG PLOT DATE : 5/25/2022 3:49 PM PLOT BY : SEH LAYOUT NAME : 3-1 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

LANDFILL DR

FLAGGING OPERATION REQ'D
AVOID QUEUING BACK ON USH 12/18

ROAD CLOSED
R11-2
48"X30"

MAAHIC WAY

MAAHIC WAY

LOOSE GRAVEL
W08-7

ALL ACCESS TO BUSINESSES OPEN DURING CONSTRUCTION

FIXED MESSAGE SIGN
120"X48"

IN PLACE FROM PREVIOUS STAGE

100'
(TYP)

USH 12/18 WB

140'WB'

145'WB'

150'WB'

NINE RUMBLE STRIPS WITH 5 FOOT SPACING BETWEEN EACH INDIVIDUAL STRIP

139+00'EB'

140'EB'

145'EB'

150'EB'

USH 12/18 EB

154+00'EB'

ONE WAY

STOP

DO NOT ENTER

DIVIDED HIGHWAY

MILLPOND RD

MILLPOND RD

25'
(TYP)

GOLF COURSE ACCESS

ROAD CLOSED
R11-2
48"X30"

ROAD WORK AHEAD
W20-1A

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3	SHEET 358	E

2

2

TRAFFIC CONTROL NOTES FOR LANDFILL DR:

1) MAINTAIN ACCESS TO THE LANDFILL DR ACCESS AT ALL TIMES DURING BUSINESS HOURS.
2) NO WORK SHALL occur ON LANDFILL DR DURING BUSINESS HOURS.
3) MAINTAIN EMERGENCY ACCESS TO THE LANDFILL GAS FACILITY AT ALL TIMES.

N

LANDFILL DR

ROAD WORK AHEAD W20-1A

LOOSE GRAVEL W08-7

ROAD CLOSED R11-2 48"X30"

ROAD CLOSED R11-2 48"X30"

LOOSE GRAVEL W08-7

MAAHIC WAY

MAAHIC WAY

154+00'EB'

169+00'EB'

155'WB' 160'WB' USH 12/18 WB 165'WB'

155'EB' 160'EB' 165'EB'

NINE RUMBLE STRIPS WITH 1.5 FOOT SPACING BETWEEN EACH INDIVIDUAL STRIP

USH 12/18 EB

SEE SDD 15D12 FOR ADVANCED WARNING SIGNING

50' (TYP)

MILLPOND RD

MH

MWEL

GV

SAN

W

INL

GOLF COURSE

GOLF GREEN

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD W20-1A)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3	SHEET 359	E

2

2

KEYNOTE LEGEND: PAVEMENT MARKING	
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

N

MAAHIC WAY

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

USH 12/18 WB

USH 12/18 EB

MILLPOND RD

170'EB'

175'EB'

180'EB'

175'WB'

180'WB'

100'
(TYP)

25'
(TYP)

100'
(TYP)

+76

169+00'EB'

184+00'EB'

M2

LEGEND:

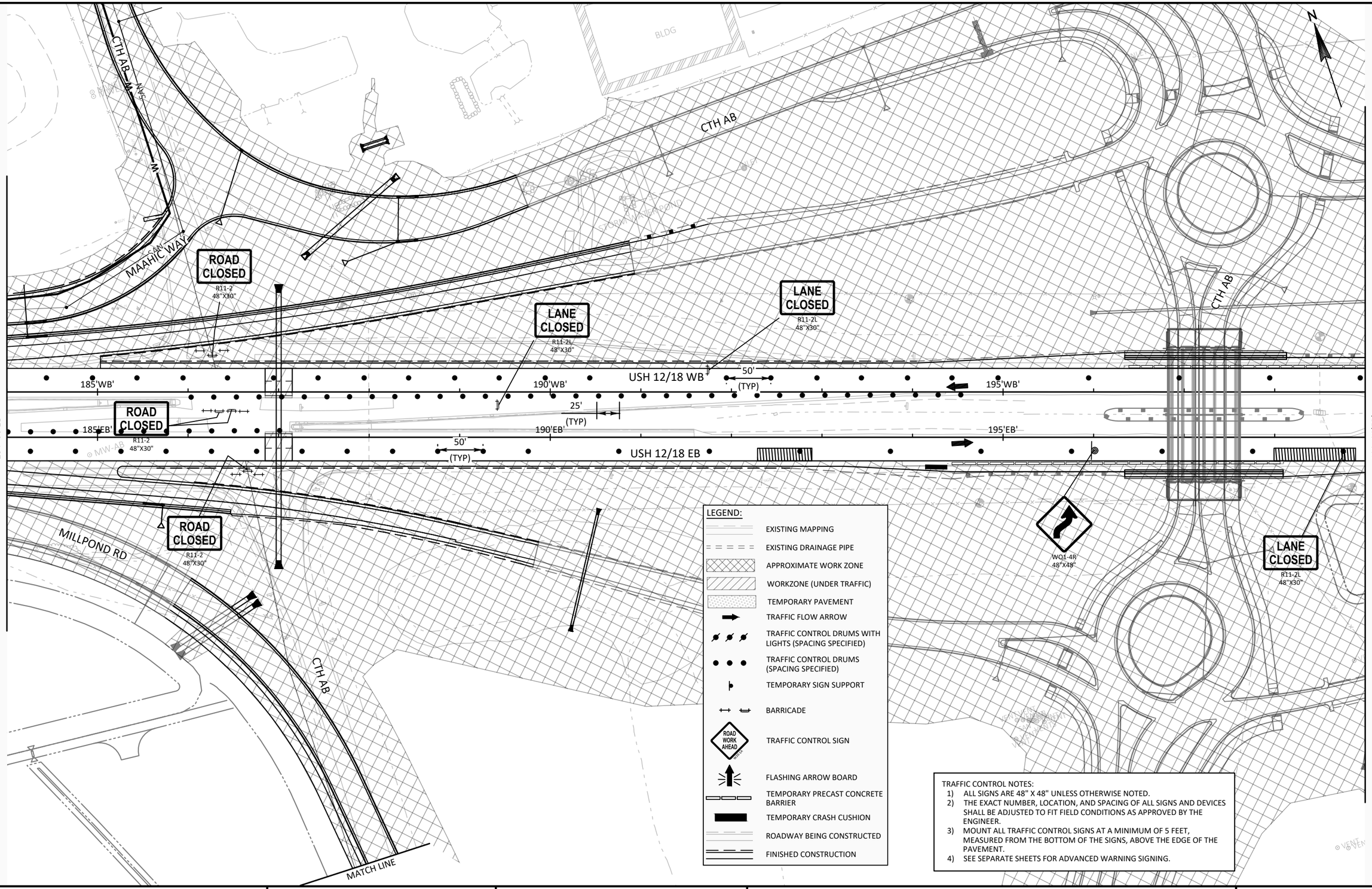
- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3	SHEET 360	E

2



TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3	SHEET 361	E

2

2

KEYNOTE LEGEND: PAVEMENT MARKING

T1	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
T2	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
A1	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (WHITE)
A2	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (YELLOW)

N

FENCE SAFETY REQ'D
(SITE PROTECTION)

LANE CLOSED
R11-2L
48"X30"

200'WB'
205'WB'
100'
(TYP)
210'WB'

MEDIAN ACCESS REMOVED
IN STAGE 2A

199+00'EB'
200'EB'
205'EB'
50'
(TYP)
210'EB'
214+00'EB'

+08
A1
50'
SPACING
A2
WO1-6
48"X24"
M1
M2
+48
T2
T1
440'
SHIFTING TAPER

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3A	SHEET 362	E

2

2

KEYNOTE LEGEND: PAVEMENT MARKING	
T1	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
T2	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
A1	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (WHITE)
A2	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

WO1-4L
48"X48"

LANE CLOSED
R11-2L
48"X30"

215'WB'
215'EB'
214+00'EB'
100'
(TYP)
T2
T1
100'
(TYP)
+84
220'WB'
220'EB'
M2
50'
(TYP)
+44
225'WB'
225'EB'
+96
M1
M2
A1
50'
SPACING
A2
440'
SHIFTING TAPER
229+00'EB'
+36
SEE SDD 15D12
FOR ADVANCED
WARNING SIGNING

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

SIGN
FLAG

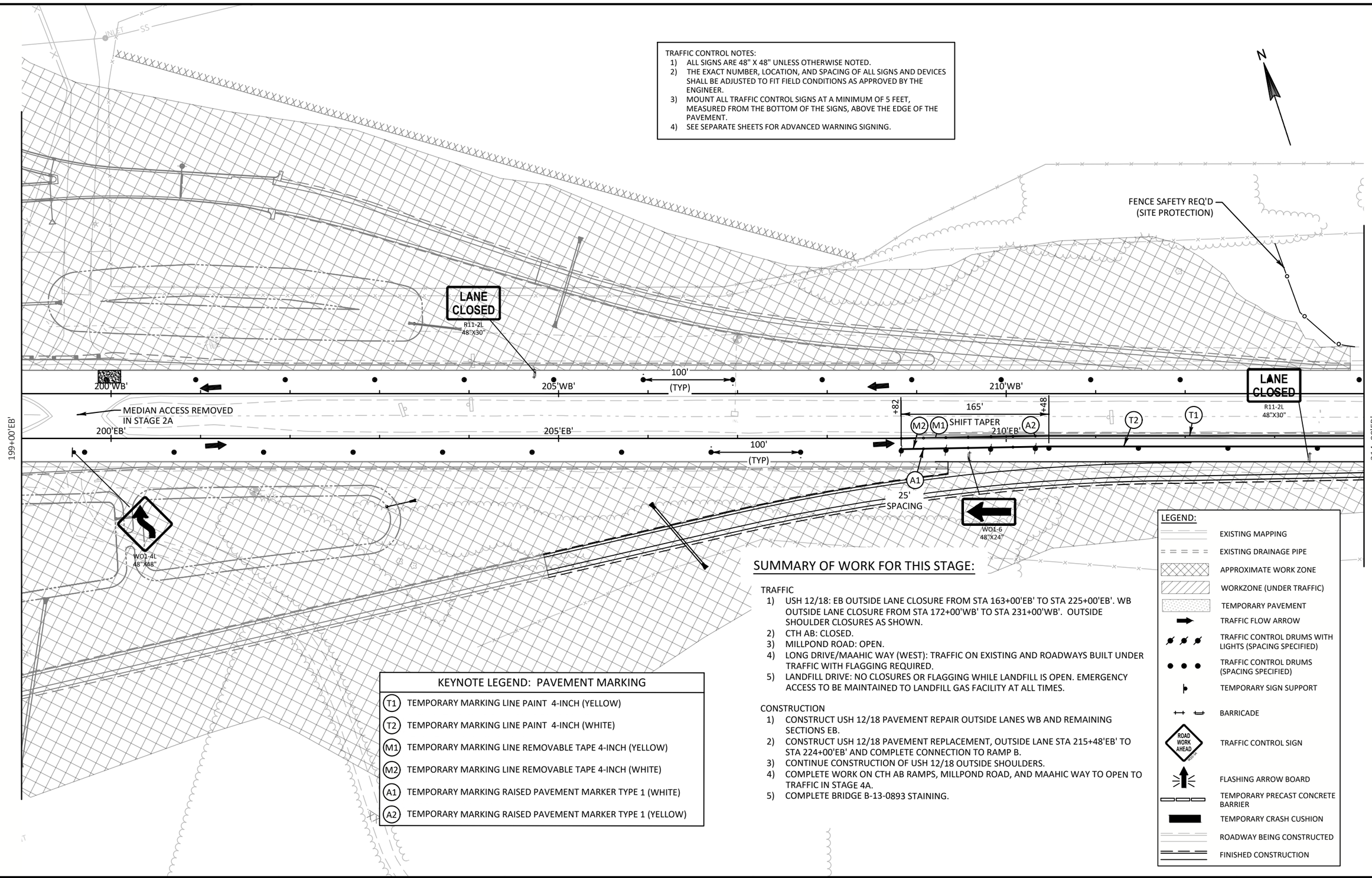
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3A	SHEET 363	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 3A).DWG PLOT DATE : 5/4/2022 10:09 AM PLOT BY : SEH LAYOUT NAME : 3A-2 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

2

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.



SUMMARY OF WORK FOR THIS STAGE:

TRAFFIC
1) USH 12/18: EB OUTSIDE LANE CLOSURE FROM STA 163+00'EB' TO STA 225+00'EB'. WB OUTSIDE LANE CLOSURE FROM STA 172+00'WB' TO STA 231+00'WB'. OUTSIDE SHOULDER CLOSURES AS SHOWN.
2) CTH AB: CLOSED.
3) MILLPOND ROAD: OPEN.
4) LONG DRIVE/MAAHIC WAY (WEST): TRAFFIC ON EXISTING AND ROADWAYS BUILT UNDER TRAFFIC WITH FLAGGING REQUIRED.
5) LANDFILL DRIVE: NO CLOSURES OR FLAGGING WHILE LANDFILL IS OPEN. EMERGENCY ACCESS TO BE MAINTAINED TO LANDFILL GAS FACILITY AT ALL TIMES.

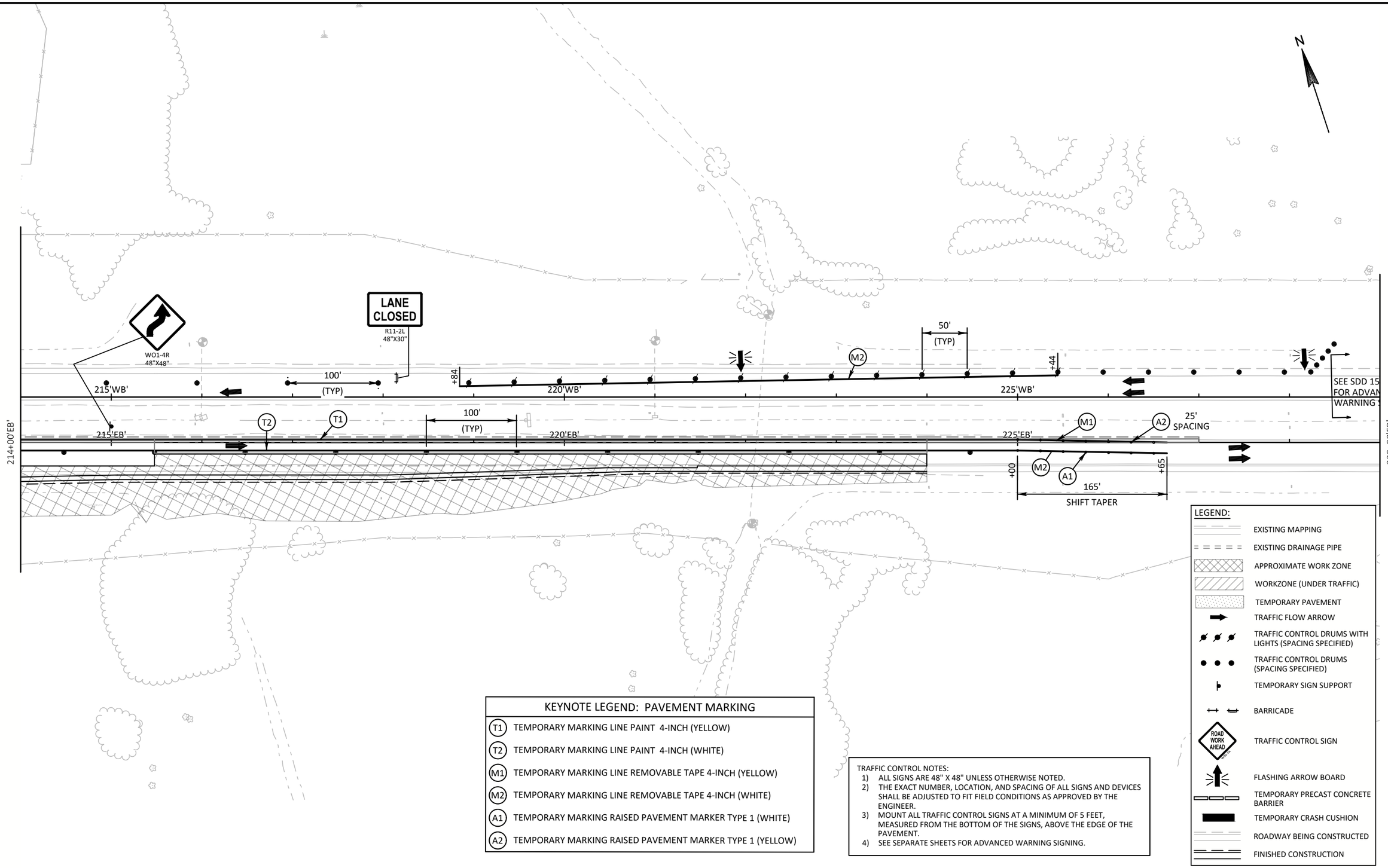
CONSTRUCTION
1) CONSTRUCT USH 12/18 PAVEMENT REPAIR OUTSIDE LANES WB AND REMAINING SECTIONS EB.
2) CONSTRUCT USH 12/18 PAVEMENT REPLACEMENT, OUTSIDE LANE STA 215+48'EB' TO STA 224+00'EB' AND COMPLETE CONNECTION TO RAMP B.
3) CONTINUE CONSTRUCTION OF USH 12/18 OUTSIDE SHOULDERS.
4) COMPLETE WORK ON CTH AB RAMPS, MILLPOND ROAD, AND MAAHIC WAY TO OPEN TO TRAFFIC IN STAGE 4A.
5) COMPLETE BRIDGE B-13-0893 STAINING.

KEYNOTE LEGEND: PAVEMENT MARKING	
T1	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
T2	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
A1	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (WHITE)
A2	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (YELLOW)

LEGEND:
- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3B	SHEET 364	E

2



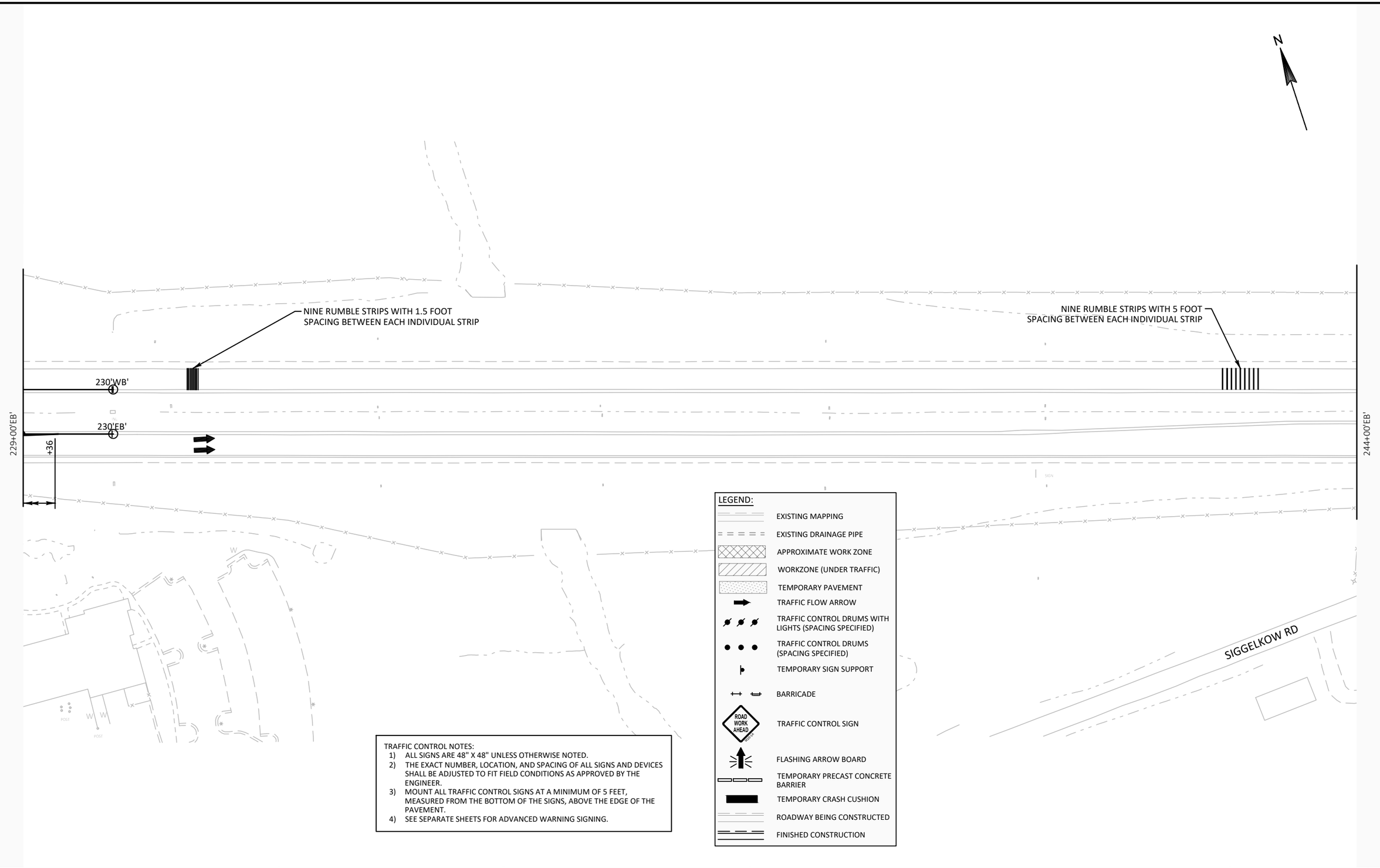
KEYNOTE LEGEND: PAVEMENT MARKING	
T1	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
T2	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
A1	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (WHITE)
A2	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE 1 (YELLOW)

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:
- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3B	SHEET 365	E

2



TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3	SHEET 366	E

2

N

FEMRITE DR

SEE PLAN CONSTRUCTION DETAIL, TRAFFIC CONTROL, ADVANCE WARNING TEMPORARY RUMBLE STRIP PLACEMENT FOR ADVANCED WARNING SIGNING

NINE RUMBLE STRIPS WITH 10 FOOT SPACING BETWEEN EACH INDIVIDUAL STRIP

ROTHAMER RD

USH 12/18 WB

USH 12/18 EB

244+00 'EB'

SIGGELKOW RD

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3	SHEET 367	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 3A).DWG PLOT DATE : 3/20/2022 9:35 AM PLOT BY : SEH LAYOUT NAME : 3A-4 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

N

ROAD CLOSED
R11-2
48"X30"

STAGE CONSTRUCTION TO MAINTAIN DRIVEWAY ACCESS TO THE SOUTH

FENCE SAFETY REQ'D (WELL PROTECTION)

CTH AB

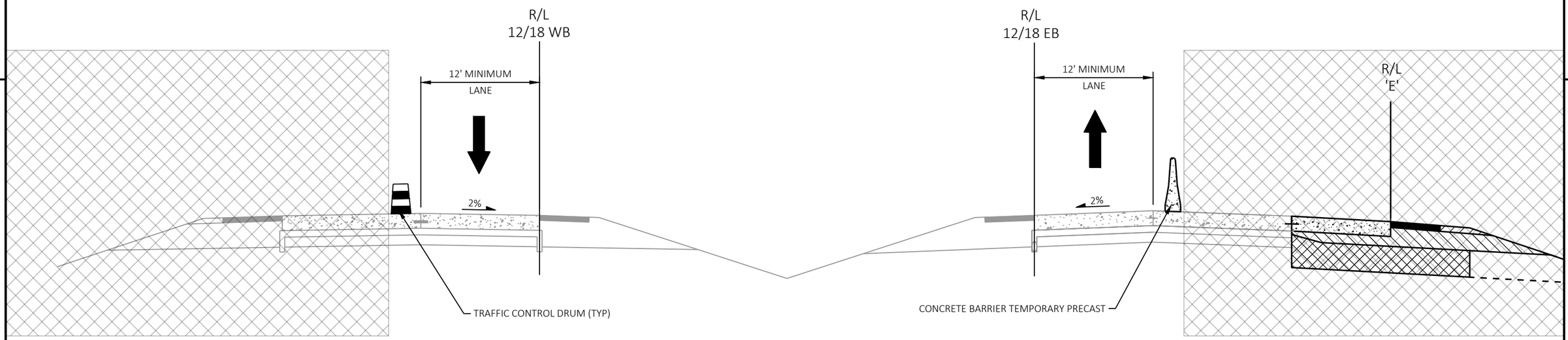
MILLPOND RD

MATCH LINE

TRAFFIC CONTROL NOTES:

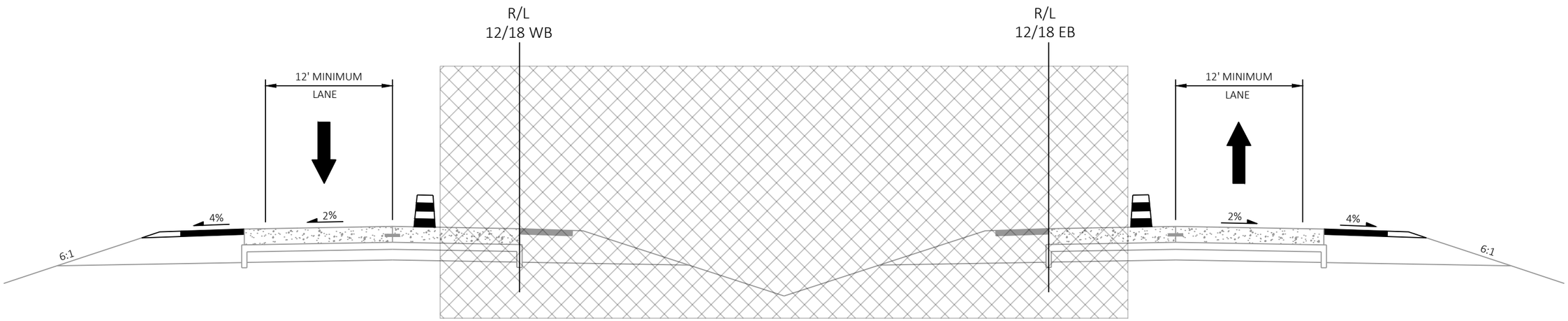
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3	SHEET 368	E



TRAFFIC CONTROL TYPICAL SECTION - USH 12/18 - STAGE 4A

- CONCRETE REPLACEMENT AND REPAIR
- REPLACE OUTSIDE SHOULDERS
- CONSTRUCT RAMP E



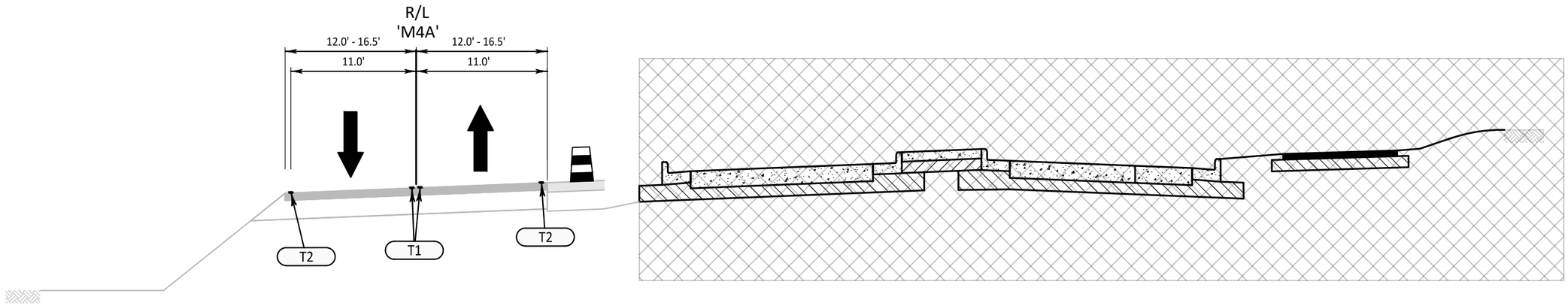
TRAFFIC CONTROL TYPICAL SECTION - USH 12/18 - STAGE 4B

- REMOVE INTERSECTION MEDIANS
- CONCRETE REPLACEMENT AND REPAIR
- REPLACE INSIDE SHOULDERS
- CONSTRUCT MAINTENANCE CROSSOVER

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING OVERVIEW - STAGE 4	SHEET 369	E

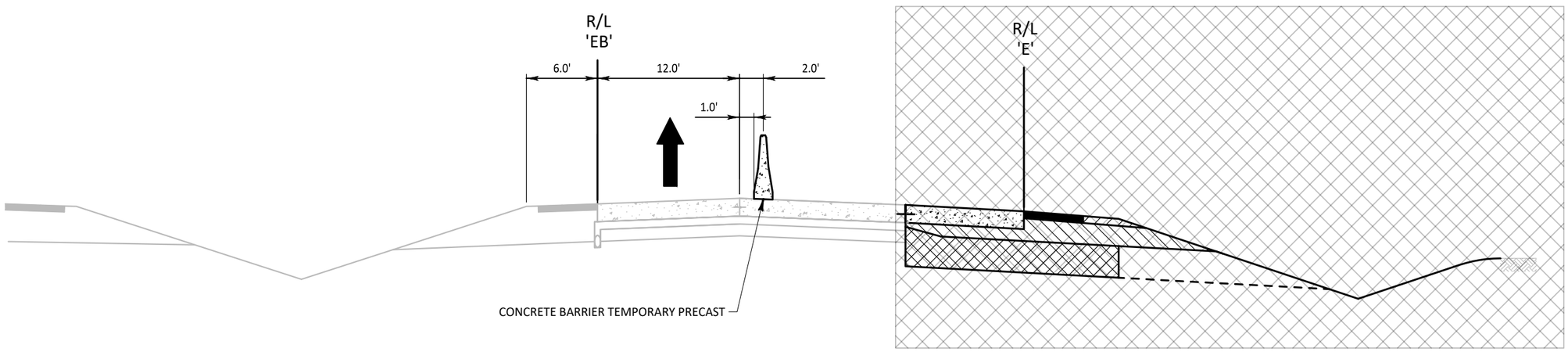
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_026040_STG4_TS.DWG
LAYOUT NAME - TS - STH 4
PLOT DATE : 1/30/2022 5:12 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL TYPICAL SECTION - MILLPOND RD NORTH BYPASS ROAD STAGE 4A

CONSTRUCT MILLPOND RD AND RAMP E ROUNDABOUT.



TRAFFIC CONTROL TYPICAL SECTION - USH 12/18 EB OUTSIDE SHOULDER STAGE 4A

CONSTRUCT USH 12/18 EB OUTSIDE SHOULDER AND RAMP E.

KEYNOTE LEGEND: PAVEMENT MARKING	
T1	TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
T2	TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)

2

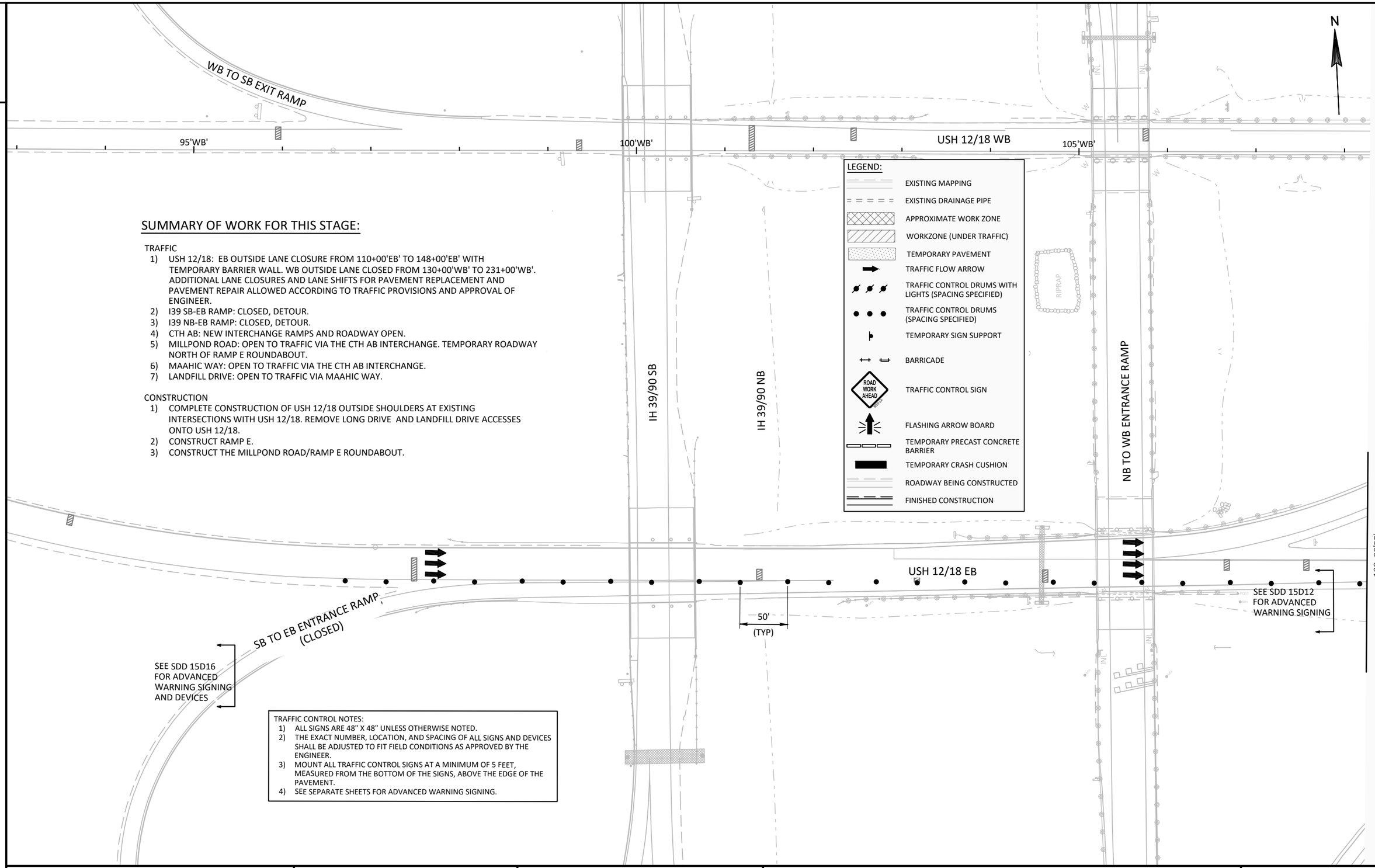
SUMMARY OF WORK FOR THIS STAGE:

TRAFFIC

1) USH 12/18: EB OUTSIDE LANE CLOSURE FROM 110+00'EB' TO 148+00'EB' WITH TEMPORARY BARRIER WALL. WB OUTSIDE LANE CLOSED FROM 130+00'WB' TO 231+00'WB'. ADDITIONAL LANE CLOSURES AND LANE SHIFTS FOR PAVEMENT REPLACEMENT AND PAVEMENT REPAIR ALLOWED ACCORDING TO TRAFFIC PROVISIONS AND APPROVAL OF ENGINEER.
2) I39 SB-EB RAMP: CLOSED, DETOUR.
3) I39 NB-EB RAMP: CLOSED, DETOUR.
4) CTH AB: NEW INTERCHANGE RAMPS AND ROADWAY OPEN.
5) MILLPOND ROAD: OPEN TO TRAFFIC VIA THE CTH AB INTERCHANGE. TEMPORARY ROADWAY NORTH OF RAMP E ROUNDABOUT.
6) MAAHIC WAY: OPEN TO TRAFFIC VIA THE CTH AB INTERCHANGE.
7) LANDFILL DRIVE: OPEN TO TRAFFIC VIA MAAHIC WAY.

CONSTRUCTION

1) COMPLETE CONSTRUCTION OF USH 12/18 OUTSIDE SHOULDERS AT EXISTING INTERSECTIONS WITH USH 12/18. REMOVE LONG DRIVE AND LANDFILL DRIVE ACCESSES ONTO USH 12/18.
2) CONSTRUCT RAMP E.
3) CONSTRUCT THE MILLPOND ROAD/RAMP E ROUNDABOUT.



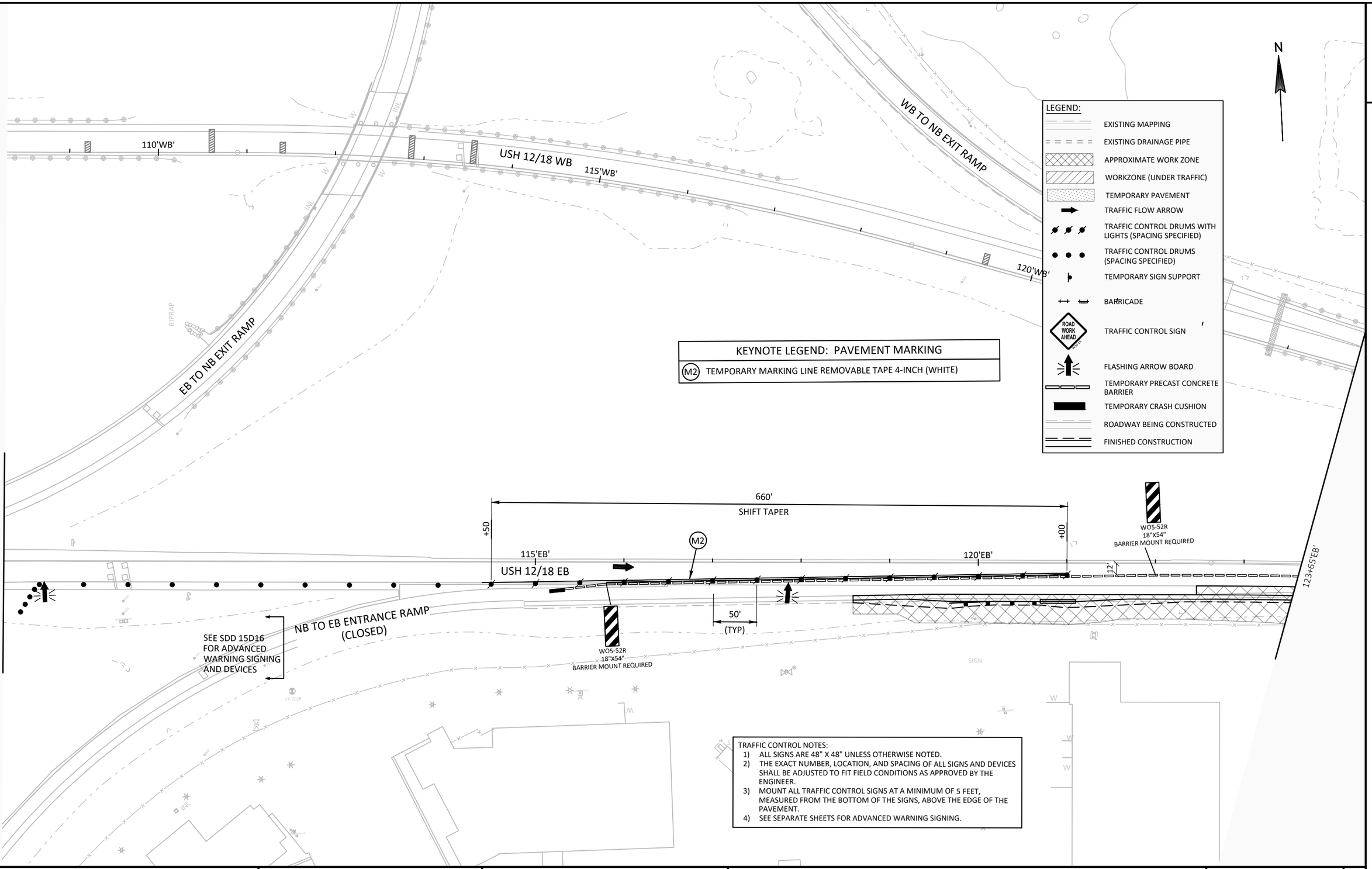
TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4A	SHEET 371	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 4A).DWG PLOT DATE : 3/19/2022 9:50 AM PLOT BY : SEH LAYOUT NAME : 01 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4A	SHEET 372	E

2

2

KEYNOTE LEGEND: PAVEMENT MARKING	
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

MAAHIC WAY

USH 12/18 WB

USH 12/18 EB

125'WB'

130'WB'

135'WB'

125'EB'

130'EB'

135'EB'

+56

+36

12'

100'
(TYP)

123+65'EB'

139+00'EB'

LONG DR (SOUTH)

MILLPOND RD

POOL

FILLER CAPS

CANOPY

SIGN

INL

SAN

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD W20-1A)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

ROAD WORK AHEAD W20-1A

SIDEWALK CLOSED

TEMPORARY PEDESTRIAN BARRICADE AND SIGN IN PLACE FROM PREVIOUS STAGE

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4A	SHEET 373	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 4A).DWG PLOT DATE : 5/25/2022 3:52 PM PLOT BY : SEH LAYOUT NAME : 03 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

2

KEYNOTE LEGEND: PAVEMENT MARKING	
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

N

LANDFILL DR

MAAHIC WAY

LANE CLOSED R11-2L 48"X30"

ROAD CLOSED R11-2 48"X30"

R3-1 48"X48"

R3-2 48"X48"

100' (TYP)

USH 12/18 WB

140' WB'

145' WB'

150' WB'

140' EB'

145' EB'

150' EB'

USH 12/18 EB

139+00' EB'

154+00' EB'

25' (TYP)

MILLPOND RD

340' MAA

344' MAA

346' MAA

348' MAA

WO1-5R

WO13-1 36"X36"

STOP R1-1 30"X30"

GOLF COURSE ACCESS

15' (TYP)

TRAFFIC CONTROL NOTES:

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3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4A	SHEET 374	E

2

2

KEYNOTE LEGEND: PAVEMENT MARKING	
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

LANDFILL DR

MAAHIC WAY

MILLPOND RD

USH 12/18 WB

USH 12/18 EB

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

ROAD WORK AHEAD
W20-1A

R3-1
48"X48"

LANE CLOSED
R11-2L
48"X30"

ROAD WORK AHEAD
W20-1A

R3-2
48"X48"

LANE CLOSED
R11-2L
48"X30"

100'
(TYP)

25'
(TYP)

155'WB'

160'WB'

165'WB'

155'EB'

160'EB'

165'EB'

+23

+30

+79

+31

M1

154+00'EB'

169+00'EB'

LEGEND:	
	EXISTING MAPPING
	EXISTING DRAINAGE PIPE
	APPROXIMATE WORK ZONE
	WORKZONE (UNDER TRAFFIC)
	TEMPORARY PAVEMENT
	TRAFFIC FLOW ARROW
	TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
	TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
	TEMPORARY SIGN SUPPORT
	BARRICADE
	TRAFFIC CONTROL SIGN
	FLASHING ARROW BOARD
	TEMPORARY PRECAST CONCRETE BARRIER
	TEMPORARY CRASH CUSHION
	ROADWAY BEING CONSTRUCTED
	FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
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3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4A	SHEET 375	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 4A).DWG PLOT DATE : 3/19/2022 9:51 AM PLOT BY : SEH LAYOUT NAME : 05 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

KEYNOTE LEGEND: PAVEMENT MARKING	
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
M3	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
M4	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
M5	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)

MAAHIC WAY

USH 12/18 WB

USH 12/18 EB

MILLPOND RD

169+00'EB'

184+00'EB'

170'WB'

175'WB'

180'WB'

170'EB'

175'EB'

180'EB'

25' (TYP)

50' (TYP)

R3-2
48"X48"

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
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3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4A	SHEET 376 E

2

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

KEYNOTE LEGEND: PAVEMENT MARKING

M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
M3	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
M4	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
M5	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)

N

CTH AB

ROAD WORK AHEAD W20-1A

LANE CLOSED R11-2L 48"X30"

ROAD CLOSED R11-2 48"X30"

LANE CLOSED R11-2L 48"X30"

LANE CLOSED R11-2L 48"X30"

R3-2 48"X48"

184+00'EB'

199+00'EB'

+38 +83 +53 12' +34 +37

100' (TYP) 25' (TYP)

185'WB' 190'WB' USH 12/18 WB 195'WB'

185'EB' 190'EB' USH 12/18 EB 195'EB'

M1 M1

STORM WATER POND

MILLPOND RD

CTH AB

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4A	SHEET 377	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 4A).DWG PLOT DATE : 3/19/2022 9:52 AM PLOT BY : SEH LAYOUT NAME : 07 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

2

KEYNOTE LEGEND: PAVEMENT MARKING	
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
M3	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
M4	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
M5	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)

N

EXIT
E5-1
48"X48"

LANE CLOSED
R11-2L
48"X30"

+64
+60
+10
25'
(TYP)
12'
M1
M2
M3
M5
+58
+70

100'
(TYP)

200'WB'
205'WB'
210'WB'
USH 12/18 WB

200'EB'
205'EB'
210'EB'
USH 12/18 EB

199+00'EB'
214+00'EB'

MEDIAN ACCESS REMOVED
IN STAGE 2A

LEGEND:
- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4A	SHEET 378	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 4A).DWG PLOT DATE : 3/19/2022 9:52 AM PLOT BY : SEH LAYOUT NAME : 08 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

KEYNOTE LEGEND: PAVEMENT MARKING	
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
M3	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)
M4	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)
M5	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) (3.0 FT LINE 9.0 FT SKIP)

N

TEMPORARY RUMBLE STRIPS AND WARNING SIGNING TO REMAIN IN PLACE FROM STAGE 3

SEE SDD 15D12 FOR ADVANCED WARNING SIGNING

1000'

660'

SHIFT TAPER

200'

100' (TYP)

LANE CLOSED

R11-2L 48"X30"

25' (TYP)

50' (TYP)

M2

M5

215'WB' +21

220'WB' +95

USH 12/18 WB

225'WB' +44

215'EB'

220'EB'

225'EB'

USH 12/18 EB

214+00'EB'

12'

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

FLAG

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4A	SHEET 379	E

2

2

N

110'WB'

115'WB'

USH 12/18 WB

120'WB'

WB TO NB EXIT RAMP

EB TO NB EXIT RAMP

RIPRAP

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

SUMMARY OF WORK FOR THIS STAGE:

TRAFFIC

1) USH 12/18: EB INSIDE LANE CLOSED FROM 110+00'EB' TO 215+00'EB'. WB INSIDE LANE CLOLSED FROM 130+00'WB' TO 231+00'WB'. ADDITIONAL LANE CLOSURES FOR PAVEMENT REPLACEMENT AND PAVEMENT REPAIR ALLOWED ACCORDING TO TRAFFIC PROVISIONS AND APPROVAL OF ENGINEER.
2) I39 SB-EB RAMP: OPEN.
3) I39 NB-EB RAMP: CLOSED, DETOUR.
4) CTH AB: NEW INTERCHANGE RAMPS AND ROADWAY OPEN.
5) MILLPOND ROAD: OPEN TO TRAFFIC VIA THE CTH AB INTERCHANGE, RAMP E ROUNDABOUT OPEN FOR MILLPOND ROAD TRAFFIC.
6) MAAHIC WAY: OPEN TO TRAFFIC VIA THE CTH AB INTERCHANGE.
7) LANDFILL DRIVE: OPEN TO TRAFFIC VIA MAAHIC WAY.

CONSTRUCTION

1) CONSTRUCT USH 12/18 PAVEMENT REPAIR INSIDE LANES EB AND WB.
2) CONSTRUCT USH 12/18 MEDIAN SHOULDERS AND GRADE MEDIAN.
3) REMOVE TEMPORARY PAVEMENTS NORTH OF MILLPOND ROAD NEAR THE MILLPOND ROAD/RAMP E ROUNDABOUT.
4) CONSTRUCT REMAINING PORTIONS OF RAMP E/MILLPOND ROAD.

50' (TYP)

109+00'EB'

SEE SDD 15D12 FOR ADVANCED WARNING SIGNING

115'EB'

+85

USH 12/18 EB

NB TO EB ENTRANCE RAMP (CLOSED)

SEE SDD 15D16 FOR ADVANCED WARNING SIGNING AND DEVICES

120'EB'

M2

50' (TYP)

+45

123+65'EB'

660'

SHIFT TAPER

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

KEYNOTE LEGEND: PAVEMENT MARKING	
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4B	SHEET 380	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 4B).DWG PLOT DATE : 3/19/2022 9:36 AM PLOT BY : SEH LAYOUT NAME : 01 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

2

MAAHIC WAY

USH 12/18 WB

125'WB'

100'WB'

105'WB'

100'
(TYP)

200'
TAPER

N

100'
(TYP)

125'EB'

130'EB'

USH 12/18 EB

135'EB'

50'
(TYP)

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

123+65'EB'

139+00'EB'

335'MP'

330'MP'

LONG DR

MILLPOND RD

FILLER CAPS

CANOPY

POOL

SIGN

SAN

INL

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4B	SHEET 381	E

2

2

LANDFILL DR

MAAHIC WAY

LANE CLOSED
R11-2L
48"X30"

100'
(TYP)

USH 12/18 WB

USH 12/18 EB

140'WB'

145'WB'

150'WB'

139+00'EB'

140'EB'

145'EB'

150'EB'

154+00'EB'

LANE CLOSED
R11-2L
48"X30"

340'MP'

345'MP'

345ME

25'
(TYP)

350'MP'

MILLPOND RD

LANE CLOSED
R11-2L
48"X30"

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

LEGEND:
- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4B	SHEET 382	E

2

2

N

LANDFILL DR

MAAHIC WAY

MILLPOND RD

USH 12/18 WB

USH 12/18 EB

LANE CLOSED
R11-2L
48"X30"

100'
(TYP)

ROAD WORK AHEAD
W20-1A

154+00'EB'

169+00'EB'

105'WB'

100'WB'

105'WB'

155'EB'

160'EB'

165'EB'

355'MP'

360'MP'

365'MP'

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

TRAFFIC CONTROL NOTES:

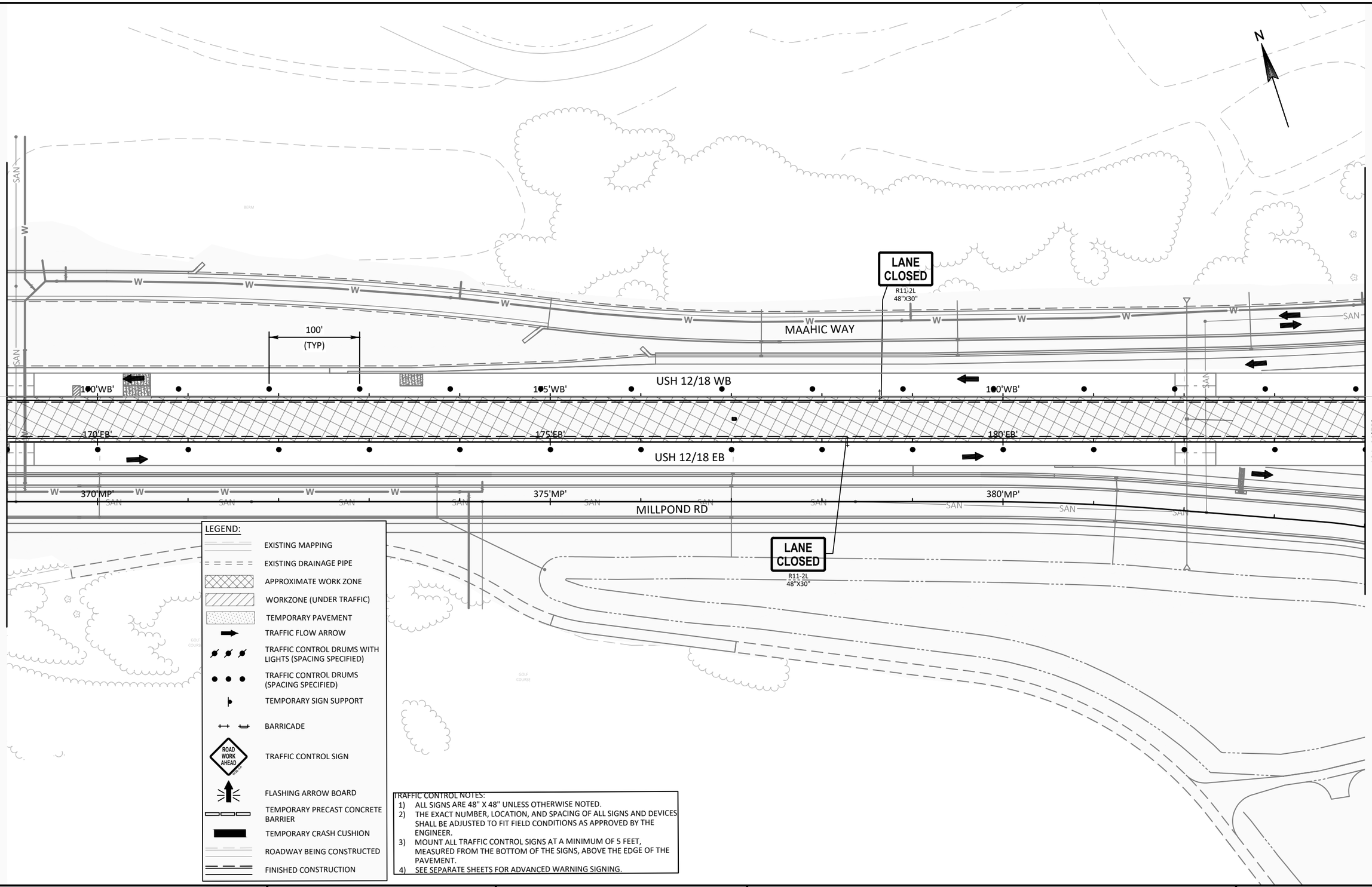
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4B	SHEET 383	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 4B).DWG PLOT DATE : 3/19/2022 9:37 AM PLOT BY : SEH LAYOUT NAME : 04 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

2



TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4B	SHEET 384	E

2

2

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

CTH AB

BLDG

SAN

ROAD WORK AHEAD
W20-1A

N

100'
(TYP)

LANE CLOSED
R11-2L
48"X30"

USH 12/18 WB

195'WB'

190'WB'

185'WB'

184+00'EB'

199+00'EB'

195'EB'

190'EB'

185'EB'

USH 12/18 EB

LANE CLOSED
R11-2L
48"X30"

385'MP'

MILLPOND RD

390'MP'

CTH AB

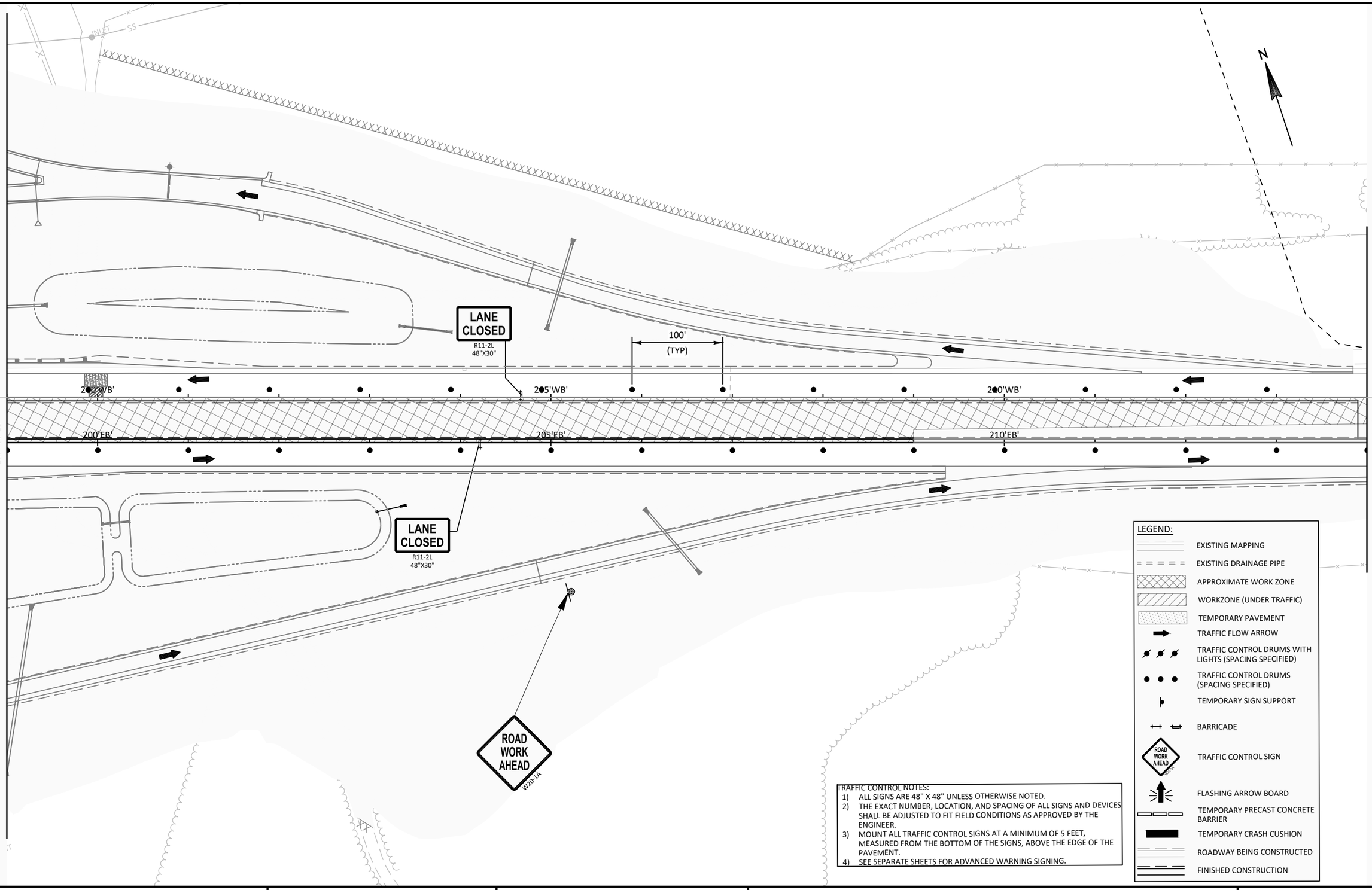
LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4B	SHEET 385	E

2

2



TRAFFIC CONTROL NOTES:

1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4B	SHEET 386	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 4B).DWG PLOT DATE : 3/19/2022 9:37 AM PLOT BY : SEH LAYOUT NAME : 07 PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 42

2

2

N

660'
SHIFT TAPER

TEMPORARY RUMBLE STRIPS AND
WARNING SIGNING TO REMAIN IN
PLACE FROM STAGE 3

SEE SDD 15D12
FOR ADVANCED
WARNING SIGNING

100'
(TYP)

LANE
CLOSED
R11-2L
48"X30"

+10

M2

50'
(TYP)

+70

215'WB'

220'WB'

225'WB'

214+00'EB'

215'EB'

220'EB'

225'EB'

SIGN

FLAG

LEGEND:

- EXISTING MAPPING
- EXISTING DRAINAGE PIPE
- APPROXIMATE WORK ZONE
- WORKZONE (UNDER TRAFFIC)
- TEMPORARY PAVEMENT
- TRAFFIC FLOW ARROW
- TRAFFIC CONTROL DRUMS WITH LIGHTS (SPACING SPECIFIED)
- TRAFFIC CONTROL DRUMS (SPACING SPECIFIED)
- TEMPORARY SIGN SUPPORT
- BARRICADE
- TRAFFIC CONTROL SIGN (ROAD WORK AHEAD)
- FLASHING ARROW BOARD
- TEMPORARY PRECAST CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- ROADWAY BEING CONSTRUCTED
- FINISHED CONSTRUCTION

KEYNOTE LEGEND: PAVEMENT MARKING	
M1	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
M2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

TRAFFIC CONTROL NOTES:
1) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3) MOUNT ALL TRAFFIC CONTROL SIGNS AT A MINIMUM OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGNS, ABOVE THE EDGE OF THE PAVEMENT.
4) SEE SEPARATE SHEETS FOR ADVANCED WARNING SIGNING.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4B	SHEET 387	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200-TC (TRAF CNTRL STAGE 4B).DWG PLOT DATE : 3/19/2022 9:38 AM PLOT BY : SEH LAYOUT NAME : 08 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42

2

N

39
90

12
18

NO TRAFFIC

NO TRAFFIC

MODIFY SDD 15D42 TO CLOSE RIGHT LANE AND HAVE 2-LANE LEFT EXIT (ALL EB TRAFFIC EXITS)

CLOSE EB USH 12/18 EAST OF 2-LANE LEFT EXIT TO NB IH 39/90

MILLPOND RD

MILLPOND RD

NO TRAFFIC

CLOSE SB-EB LOOP RAMP PER SDD 15D16 (OMIT COVERING SIGNS AND PAVEMENT MARKING)

EVAN ACRES RD

SAVANNAH RD

INSTALL PIPE ACROSS USH 12/18

CLOSE NB-EB RAMP PER SDD 15D16 (OMIT COVERING SIGNS AND PAVEMENT MARKING)

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 1	SHEET 388	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 1.DWG
LAYOUT NAME - 02

PLOT DATE : 1/30/2022 1:18 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2

2

N

AB

ROAD CLOSED 1000 FT
W20-3C

TEMPORARY PORTABLE RUMBLE STRIPS ARRAY REQUIRED. EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

RUMBLE STRIPS AHEAD
W21-6S

ROAD CLOSED AHEAD
W20-3A

12 18

MILLPOND RD

250'

250'

1000'

LOCAL TRAFFIC ONLY

CLOSE LEFT LANE OF WB USH 12/18 PER SDD 15D12a (OMIT SIGN W20-1F). HAVE TRAFFIC IN A SINGLE LANE 500' PRIOR TO ROAD CLOSED AHEAD SIGN.

LUDS LN

R11-3
60" X 30"
ROAD CLOSED
3/4 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

LOCAL TRAFFIC ONLY

12 18

AB

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 1	SHEET 389	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 1.DWG
LAYOUT NAME - 03

PLOT DATE : 1/30/2022 1:18 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2

2

N

R11-3
60" X 30"
ROAD CLOSED
2 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

12 18

LOCAL TRAFFIC ONLY

FEMRITE DR

ROTHAMER RD

SIGGELKOW RD

R11-3
60" X 30"
ROAD CLOSED
2 1/2 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

VILAS RD

LOCAL TRAFFIC ONLY

VILAS RD

12 18

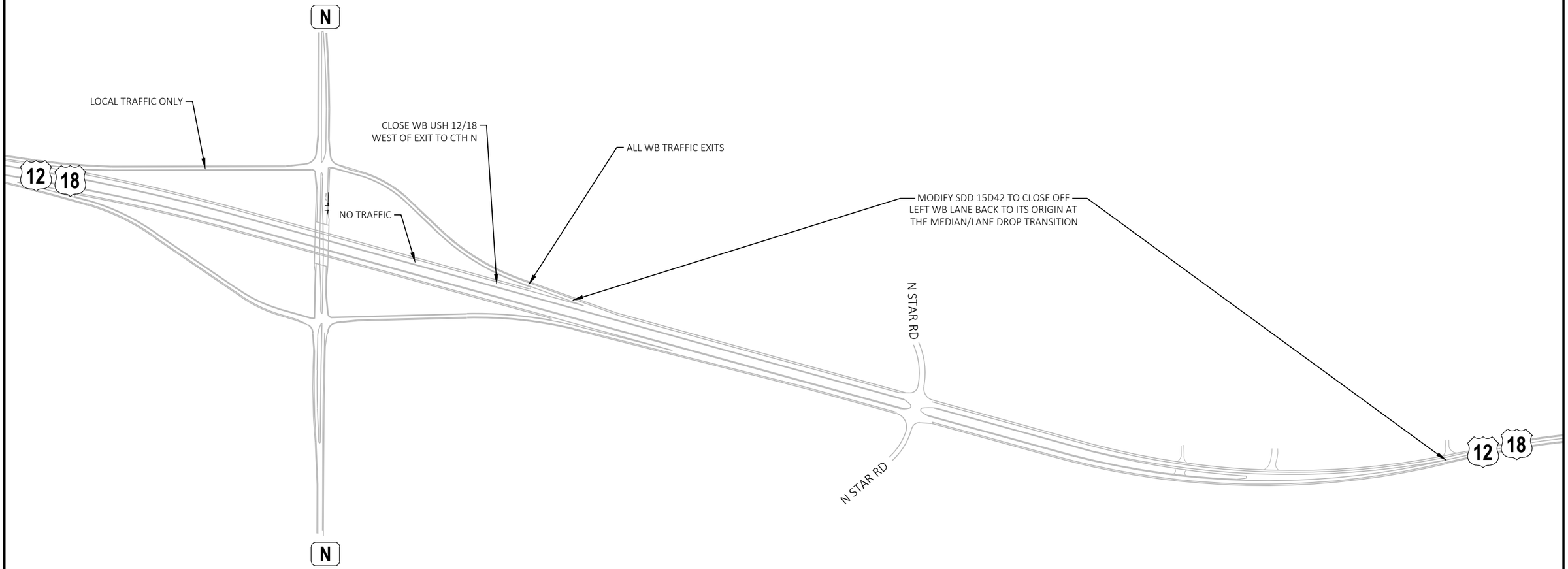
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 1	SHEET 390	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 1.DWG
LAYOUT NAME - 04

PLOT DATE : 1/30/2022 1:18 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

2

N



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 1	SHEET 391	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 1.DWG
LAYOUT NAME - 05
PLOT DATE : 1/30/2022 1:18 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

2

2

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

15' (TYP)

R3-1
24"X24"

WO12-1D
24"X24"

HARD CLOSURE

25' (TYP)

12 18

MILLPOND RD

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R3-2
24"X24"

50' (TYP)

WB USH 12/18 MEDIAN LANE CLOSED.
ONE-LANE LOCAL WB TRAFFIC CAN
TURN RIGHT OR LEFT AT MILLPOND RD.

12 18

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 1	SHEET 392	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_02515O_TC (12-18 CLOSURE) - CONFIG 1.DWG
LAYOUT NAME - US-12 at Millpond (DETAIL)

PLOT DATE : 1/30/2022 1:18 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

SOFT CLOSURE

LOCAL TRAFFIC ONLY

NO TRAFFIC

R11-3
60" X 30"
ROAD CLOSED
3 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
TYPE III BARRICADE

LEFT TURN LANE CLOSED

25' (TYP)

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

12 18

NO TRAFFIC

12 18

N

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 1	SHEET 393	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 1.DWG
LAYOUT NAME - US-12 and CTH N (DETAIL)

PLOT DATE : 1/30/2022 1:19 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

US 12/18 FULL FREEWAY CLOSURE

NIGHTTIME CLOSURE ONLY

2

USH 12/18

LONG RD

MILL POND RD

IH 39

CTH AB

CTH N

PCMS

PCMS MESSAGE:
ROAD CLOSED BEGINS | DATE & TIME
FRAME A | FRAME B
(IN PLACE A MINIMUM OF 7 CALENDAR DAYS PRIOR TO FREEWAY CLOSURE)

PCMS MESSAGE:
EB 12/18 CLOSED | FOLLOW SB I-39 RAMP
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
RAMP CLOSED BEGINS | DATE & TIME
FRAME A | FRAME B
(IN PLACE A MINIMUM OF 7 CALENDAR DAYS PRIOR TO FREEWAY CLOSURE)

PCMS MESSAGE:
ROAD CLOSED BEGINS | DATE & TIME
FRAME A | FRAME B
(IN PLACE A MINIMUM OF 7 CALENDAR DAYS PRIOR TO FREEWAY CLOSURE)

PCMS MESSAGE:
EB 12/18 CLOSED | USE ALT ROUTE
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
DETOUR TO EAST 12/18 | 4 MILES AHEAD
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

ONCE TRAFFIC IS ON NB I-39/90, EXISTING SIGNS WILL DIRECT TRAFFIC BACK ONTO WB US 12/18

PCMS MESSAGE:
LOCAL TRAFFIC ONLY | ROAD CLOSED MILLPOND
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
LOCAL TRAFFIC ONLY | ROAD CLOSED MILLPOND
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
WB 12/18 CLOSED | FOLLOW DETOUR
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
WB 12/18 CLOSED | THIS EXIT TURN LT
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
WB 12/18 | CLOSED AHEAD
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
WB 12/18 CLOSED | USE ALT ROUTE
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

ONCE TRAFFIC IS ON NB CTH N, EXISTING SIGNS WILL DIRECT TRAFFIC BACK ONTO EB US 12/18

PCMS MESSAGE:
DETOUR TO WEST 12/18 | FOLLOW NB I-39 RAMP
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
DETOUR TO WEST 12/18 | 4 MILES AHEAD
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
DETOUR TO EAST 12/18 | FOLLOW NB CTH N RAMP
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
DETOUR TO EAST 12/18 | THIS EXIT TURN LT
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

LEGEND

- WB DETOUR ROUTE
- EB DETOUR ROUTE
- WORK ZONE
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

NOTES

ADJUST NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

REMOVE OR COVER ALL SIGNS TEMPORARY OR EXISTING THAT CONFLICT WITH THE TRAFFIC CONTROL "IN USE" AS APPROVED BY THE ENGINEER.

N

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	DETOUR - USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 1	SHEET 394	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027001_DT - CONFIG 1.DWG
LAYOUT NAME - 01

PLOT DATE : 1/30/2022 12:23 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:2000 FT

WISDOT/CADDS SHEET 42

2

N

39
90

12
18

ROAD CLOSED AHEAD
W20-3A

CLOSE LEFT LANE FOR EB USH 12/18 LOCAL TRAFFIC

RUMBLE STRIPS AHEAD
W21-6S

TEMPORARY PORTABLE RUMBLE STRIPS ARRAY REQUIRED. EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ROAD CLOSED 1000 FT
W20-3C

NO TRAFFIC

MODIFY SDD 15D42 TO CLOSE RIGHT LANE AND HAVE 2-LANE LEFT EXIT (ALL EB TRAFFIC EXITS)

1000'

250'

250'

CLOSE EB USH 12/18 EAST OF 2-LANE LEFT EXIT TO NB IH 39/90

MILLPOND RD

MILLPOND RD

CLOSE SB-EB LOOP RAMP PER SDD 15D16 (OMIT COVERING SIGNS AND PAVEMENT MARKING)

LOCAL EB USH 12/18 TRAFFIC ENTERS FROM NB IH 39/90 TO EB USH 12/18 RAMP

EVAN ACRES RD

SAVANNAH RD

12
18

39
90

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 2	SHEET 395	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 2.DWG
LAYOUT NAME - 02

PLOT DATE : 1/30/2022 1:22 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2

2

N

AB

INSTALL WATER PIPE ACROSS USH 12/18

12 18

MILLPOND RD

INSTALL DRAINAGE PIPE ACROSS USH 12/18

INSTALL WATER PIPE AND SANITARY SEWER ACROSS USH 12/18

LUDS LN

ROAD CLOSED 1000 FT
W20-3C

TEMPORARY PORTABLE RUMBLE STRIPS ARRAY REQUIRED. EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

RUMBLE STRIPS AHEAD
W21-6S

ROAD CLOSED AHEAD
W20-3A

CLOSE LEFT LANE OF WB USH 12/18 PER SDD 15D12a (OMIT SIGN W20-1F). HAVE TRAFFIC IN A SINGLE LANE 500' PRIOR TO ROAD CLOSED AHEAD SIGN.

250'

250'

1000'

INSTALL DRAINAGE PIPES AND SANITARY SEWER ACROSS USH 12/18

12 18

AB

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 2	SHEET 396	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 2.DWG
LAYOUT NAME - 03

PLOT DATE : 1/30/2022 1:22 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

2

2

N

R11-3
60" X 30"
ROAD CLOSED
1 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

12 18

LOCAL TRAFFIC ONLY

FEMRITE DR

ROTHAMER RD

SIGGELKOW RD

R11-3
60" X 30"
ROAD CLOSED
1 1/2 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

VILAS RD

LOCAL TRAFFIC ONLY

VILAS RD

12 18

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 2	SHEET 397	E

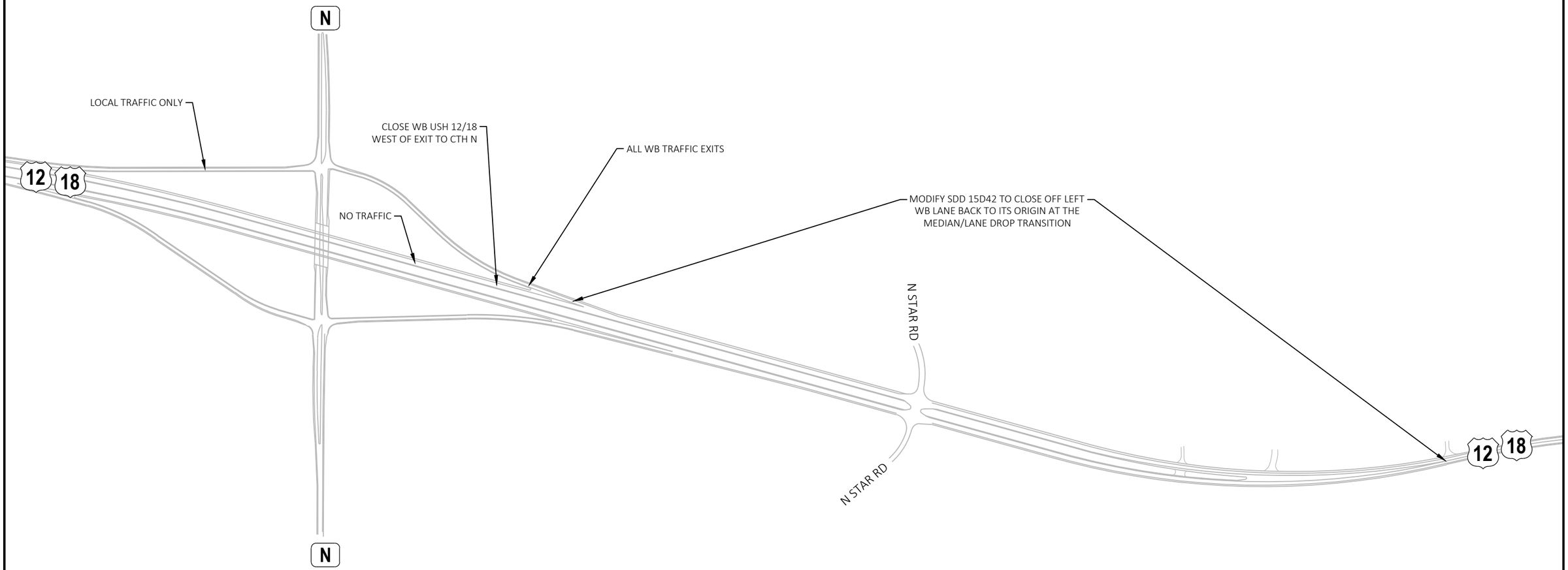
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 2.DWG
LAYOUT NAME - 04

PLOT DATE : 1/30/2022 1:22 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

2

2

N



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 2	SHEET 398	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 2.DWG
LAYOUT NAME - 05

PLOT DATE : 1/30/2022 1:22 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2

2

N

WO12-1D
24"X24"

12 18

R3-2
24"X24"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

25' (TYP)

EB USH 12/18 MEDIAN LANE CLOSED.
ONE-LANE LOCAL EB TRAFFIC CAN
TURN RIGHT OR LEFT AT MILLPOND RD.

NO TRAFFIC

HARD CLOSURE

MILLPOND RD

15' (TYP)

R3-1
24"X24"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

12 18

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 2	SHEET 399	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 2.DWG
LAYOUT NAME - US-12 at Millpond (DETAIL)

PLOT DATE : 1/30/2022 1:22 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

AB

12 18

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R3-1
24"X24"

15' (TYP)

HARD CLOSURE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO12-1D
24"X24"

ONE-LANE LOCAL WB TRAFFIC CAN TURN RIGHT OR LEFT AT CTH AB.

25' (TYP)

R3-2
24"X24"

HARD CLOSURE
(THRU LANES)

TYPE III BARRICADE

12 18

AB

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 2	SHEET 400	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 2.DWG
LAYOUT NAME - US-12 and CTH AB (DETAIL)

PLOT DATE : 1/30/2022 1:22 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

SOFT CLOSURE

LOCAL TRAFFIC ONLY

NO TRAFFIC

R11-3
60" X 30"
ROAD CLOSED
3 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
TYPE III BARRICADE

LEFT TURN LANE CLOSED

25' (TYP)

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

12 18

NO TRAFFIC

12 18

N

2

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 2	SHEET 401	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 2.DWG
LAYOUT NAME - US-12 and CTH N (DETAIL)

PLOT DATE : 1/30/2022 1:22 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

N

39

90

SIDEWALK CLOSED
R9-9
30"X18"
ON SIGN SUPPORT BEHIND TEMPORARY PEDESTRIAN BARRICADE

R10-61(MOD)
60"X30"
EB 12/18
OPEN TO
MILLPOND
TYPE III BARRICADE

R10-61(MOD)
60"X30"
EB 12/18
OPEN TO
MILLPOND
TYPE III BARRICADE

SIDEWALK CLOSED
R9-9
30"X18"
ON SIGN SUPPORT BEHIND TEMPORARY PEDESTRIAN BARRICADE

39

90

N

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 2	SHEET 402	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 2.DWG
LAYOUT NAME - I-39 and CTH N (DETAIL)

PLOT DATE : 2/14/2022 9:40 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

US 12/18 FULL FREEWAY CLOSURE

NIGHTTIME CLOSURE ONLY

2

USH 12/18

LONG RD

MILL POND RD

CTH AB

CTH N

IH 39

PCMS

PCMS MESSAGE:
EB 12/18 CLOSED | FOLLOW SB I-39 RAMP
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
RAMP CLOSED BEGINS | DATE & TIME
FRAME A | FRAME B
(IN PLACE A MINIMUM OF 7 CALENDAR DAYS PRIOR TO FREEWAY CLOSURE)

PCMS MESSAGE:
DETOUR TO EAST 12/18 | 4 MILES AHEAD
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
ROAD CLOSED BEGINS | DATE & TIME
FRAME A | FRAME B
(IN PLACE A MINIMUM OF 7 CALENDAR DAYS PRIOR TO FREEWAY CLOSURE)

PCMS MESSAGE:
EB 12/18 CLOSED | OPEN TO MILLPOND ROAD
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
ROAD CLOSED BEGINS | DATE & TIME
FRAME A | FRAME B
(IN PLACE A MINIMUM OF 7 CALENDAR DAYS PRIOR TO FREEWAY CLOSURE)

ONCE TRAFFIC IS ON NB I-39/90, EXISTING SIGNS WILL DIRECT TRAFFIC BACK ONTO WB US 12/18

PCMS MESSAGE:
WB 12/18 CLOSED | FOLLOW DETOUR
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
LOCAL TRAFFIC ONLY | ROAD CLOSED AT AB
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
DETOUR TO EAST 12/18 | FOLLOW NB CTH N RAMP
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
DETOUR TO WEST 12/18 | 4 MILES AHEAD
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
DETOUR TO EAST 12/18 | THIS EXIT TURN LT
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
WB 12/18 CLOSED | THIS EXIT TURN LT
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
WB 12/18 | CLOSED AHEAD
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
WB 12/18 CLOSED | USE ALT ROUTE
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

ONCE TRAFFIC IS ON NB CTH N, EXISTING SIGNS WILL DIRECT TRAFFIC BACK ONTO EB US 12/18

PCMS MESSAGE:
DETOUR TO WEST 12/18 | FOLLOW NB I-39 RAMP
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

LEGEND

- WB DETOUR ROUTE
- EB DETOUR ROUTE
- WORK ZONE
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

NOTES

ADJUST NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

REMOVE OR COVER ALL SIGNS TEMPORARY OR EXISTING THAT CONFLICT WITH THE TRAFFIC CONTROL "IN USE" AS APPROVED BY THE ENGINEER.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	DETOUR - USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 2	SHEET 403	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027002_DT - CONFIG 2.DWG
LAYOUT NAME - 02
PLOT DATE : 1/30/2022 12:26 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:2000 FT
WISDOT/CADDS SHEET 42

2

N

39
90

12
18

MODIFY SDD 15D42 TO CLOSE
RIGHT LANE AND HAVE 2-LANE
LEFT EXIT (ALL EB TRAFFIC EXITS)

NO TRAFFIC

CLOSE EB USH 12/18 EAST OF
2-LANE LEFT EXIT TO NB IH 39/90

CLOSE SB-EB LOOP RAMP PER SDD
15D16 (OMIT COVERING SIGNS AND
PAVEMENT MARKING)

MILLPOND RD

MILLPOND RD

LOCAL EB USH 12/18 TRAFFIC
ENTERS FROM NB IH 39/90 TO
EB USH 12/18 RAMP

EVAN ACRES RD

SAVANNAH RD

12
18

R11-3
60" X 30"

ROAD CLOSED
3/4 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

39
90

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 3	SHEET 404	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 3.DWG
LAYOUT NAME - 02

PLOT DATE : 1/30/2022 1:24 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

2

2

N

AB

CLOSE LEFT LANE FOR EB
USH 12/18 LOCAL TRAFFIC

TEMPORARY PORTABLE RUMBLE STRIPS ARRAY REQUIRED.
EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF
THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE
AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING
BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ROAD CLOSED AHEAD
W20-3A

RUMBLE STRIPS AHEAD
W21-6S

ROAD CLOSED 1000 FT
W20-3C

12 18

LUDS LN

1000'

250'

250'

INSTALL GIRDERS FOR B-13-564

12 18

CLOSE LEFT LANE OF WB USH 12/18 PER SDD
15D12a (OMIT SIGN W20-1F). HAVE TRAFFIC IN
A SINGLE LANE 500' PRIOR TO ROAD CLOSED
AHEAD SIGN.

AB

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 3	SHEET 405	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 3.DWG
LAYOUT NAME - 03

PLOT DATE : 1/30/2022 1:24 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

2

N

TEMPORARY PORTABLE RUMBLE STRIPS ARRAY REQUIRED.
EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ROAD CLOSED 1000 FT
W20-3C

RUMBLE STRIPS AHEAD
W21-6S

R11-3
60" X 30"
ROAD CLOSED
1/2 MILES AHEAD
LOCAL TRAFFIC ONLY
TYPE III BARRICADE

ROAD CLOSED AHEAD
W20-3A

CLOSE LEFT LANE OF USH 12/18
STARTING AT CTH N WB ON RAMP

LOCAL TRAFFIC ONLY

12 18

FEMRITE DR

ROTHAMER RD

SIGGELKOW RD

VILAS RD

250'

250'

1000'

VILAS RD

12 18

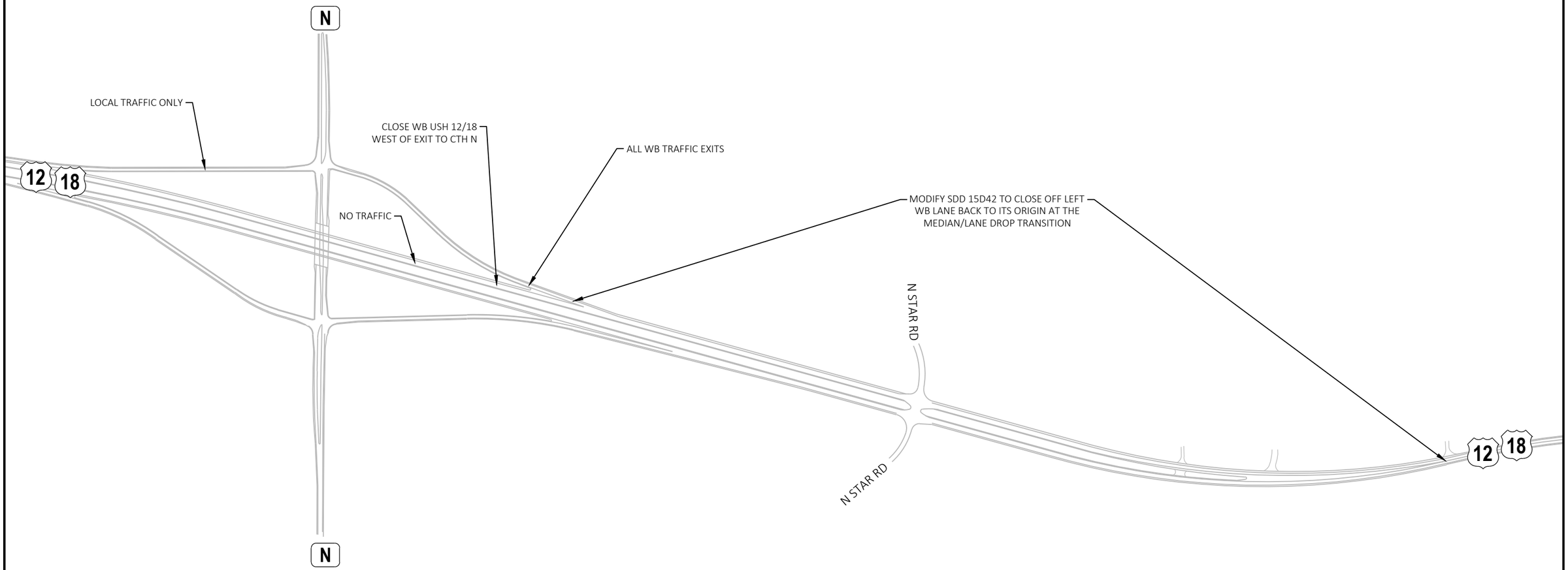
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 3	SHEET 406	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 3.DWG
LAYOUT NAME - 04
PLOT DATE : 1/30/2022 1:24 PM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

2

2

N



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 3	SHEET 407	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 3.DWG
LAYOUT NAME - 05

PLOT DATE : 1/30/2022 1:24 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2

2

N

AB

WO12-1D
24"X24"

12 18

EB USH 12/18 MEDIAN LEFT LANE CLOSED.
ONE-LANE LOCAL EB TRAFFIC CAN TURN
RIGHT OR LEFT AT CTH AB

R3-2
24"X24"

25' (TYP)

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

NO TRAFFIC

HARD CLOSURE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

TYPE III BARRICADE

R3-1
24"X24"

15' (TYP)

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

12 18

AB

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 3	SHEET 408	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 3.DWG
LAYOUT NAME - US-12 and CTH AB (DETAIL)

PLOT DATE : 1/30/2022 1:24 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R3-1
24"X24"

FEMRITE DR

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

12 18

15' (TYP)

HARD CLOSURE

NO TRAFFIC

WO12-1D
24"X24"

25' (TYP)

ONE-LANE LOCAL WB TRAFFIC CAN TURN RIGHT OR LEFT AT CTH AB.

ROTHAMER RD

SIGGELKOW RD

R3-2
24"X24"

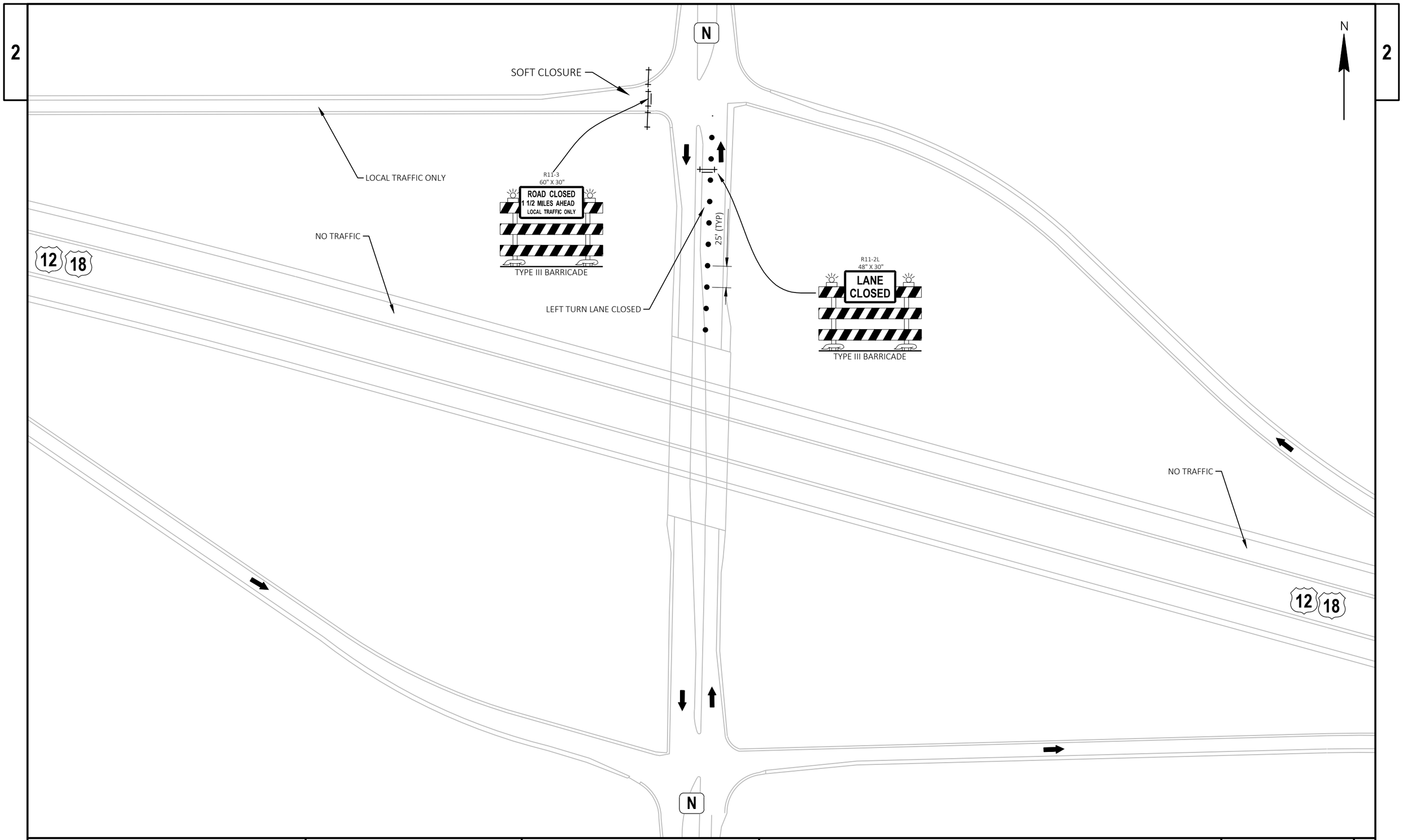
HARD CLOSURE
(THRU LANES)

12 18

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 3	SHEET 409	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 3.DWG
LAYOUT NAME - US-12 Femrite and Siggelkow (DETAIL)

PLOT DATE : 1/30/2022 1:24 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 3	SHEET 410	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 3.DWG
LAYOUT NAME - US-12 and CTH N (DETAIL)

PLOT DATE : 1/30/2022 1:24 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

39

90

SIDEWALK CLOSED
R9-9
30"X18"
ON SIGN SUPPORT BEHIND TEMPORARY PEDESTRIAN BARRICADE

R10-61(MOD)
60"X30"
EB 12/18
OPEN TO
CTH AB
TYPE III BARRICADE

R10-61(MOD)
60"X30"
EB 12/18
OPEN TO
CTH AB
TYPE III BARRICADE

SIDEWALK CLOSED
R9-9
30"X18"
ON SIGN SUPPORT BEHIND TEMPORARY PEDESTRIAN BARRICADE

N

39

90

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 3	SHEET 411	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 3.DWG
LAYOUT NAME - I-39 and CTH N (DETAIL)

PLOT DATE : 2/14/2022 9:45 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:200 FT

US 12/18 FULL FREEWAY CLOSURE

NIGHTTIME CLOSURE ONLY

2

2

N

USH 12/18

LONG RD

MILL POND RD

CTH AB

CTH N

IH 39

CONFIGURATION 4

CONFIGURATION 3

PCMS

PCMS MESSAGE:
EB 12/18 CLOSED | FOLLOW SB I-39 RAMP
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
RAMP CLOSED BEGINS | DATE & TIME
FRAME A | FRAME B
(IN PLACE A MINIMUM OF 7 CALENDAR DAYS PRIOR TO FREEWAY CLOSURE)

PCMS MESSAGE:
DETOUR TO EAST 12/18 | 4 MILES AHEAD
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
EB 12/18 CLOSED | OPEN TO CTH AB
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
ROAD CLOSED BEGINS | DATE & TIME
FRAME A | FRAME B
(IN PLACE A MINIMUM OF 7 CALENDAR DAYS PRIOR TO FREEWAY CLOSURE)

PCMS MESSAGE:
ROAD CLOSED BEGINS | DATE & TIME
FRAME A | FRAME B
(IN PLACE A MINIMUM OF 7 CALENDAR DAYS PRIOR TO FREEWAY CLOSURE)

PCMS MESSAGE:
LOCAL TRAFFIC ONLY | ROAD CLOSED FEMRITE
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
WB 12/18 CLOSED | FOLLOW DETOUR
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
WB 12/18 CLOSED | THIS EXIT TURN LT
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
WB 12/18 | CLOSED AHEAD
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
WB 12/18 CLOSED | USE ALT ROUTE
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
DETOUR TO EAST 12/18 | FOLLOW NB CTH N RAMP
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
DETOUR TO WEST 12/18 | 4 MILES AHEAD
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
DETOUR TO EAST 12/18 | THIS EXIT TURN LT
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

PCMS MESSAGE:
DETOUR TO WEST 12/18 | FOLLOW NB I-39 RAMP
FRAME A | FRAME B
PLACE DURING FREEWAY CLOSURE

ONCE TRAFFIC IS ON NB I-39/90, EXISTING SIGNS WILL DIRECT TRAFFIC BACK ONTO WB US 12/18

ONCE TRAFFIC IS ON NB CTH N, EXISTING SIGNS WILL DIRECT TRAFFIC BACK ONTO EB US 12/18

LEGEND

◁	WB DETOUR ROUTE
▶	EB DETOUR ROUTE
⊠	WORK ZONE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN

NOTES

ADJUST NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

REMOVE OR COVER ALL SIGNS TEMPORARY OR EXISTING THAT CONFLICT WITH THE TRAFFIC CONTROL "IN USE" AS APPROVED BY THE ENGINEER.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	DETOUR - USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 3 & 4	SHEET 412	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027003_DT - CONFIG 3 AND 4.DWG
LAYOUT NAME - 03

PLOT DATE : 1/30/2022 12:29 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:2000 FT

WISDOT/CADDS SHEET 42

2

N

39
90

12
18

ROAD CLOSED AHEAD
W20-3A

CLOSE LEFT LANE FOR EB USH 12/18 LOCAL TRAFFIC

RUMBLE STRIPS AHEAD
W21-6S

TEMPORARY PORTABLE RUMBLE STRIPS ARRAY REQUIRED. EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ROAD CLOSED 1000 FT
W20-3C

NO TRAFFIC

MODIFY SDD 15D42 TO CLOSE RIGHT LANE AND HAVE 2-LANE LEFT EXIT (ALL EB TRAFFIC EXITS)

1000'

250'

250'

CLOSE EB USH 12/18 EAST OF 2-LANE LEFT EXIT TO NB IH 39/90

MILLPOND RD

MILLPOND RD

CLOSE SB-EB LOOP RAMP PER SDD 15D16 (OMIT COVERING SIGNS AND PAVEMENT MARKING)

LOCAL EB USH 12/18 TRAFFIC ENTERS FROM NB IH 39/90 TO EB USH 12/18 RAMP

EVAN ACRES RD

SAVANNAH RD

12
18

39
90

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 4	SHEET 413	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 4 .DWG
LAYOUT NAME - 02

PLOT DATE : 1/30/2022 1:31 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2

2

N

AB

12

18

MILLPOND RD

LUDS LN

INSTALL DRAINAGE PIPE
ACROSS USH 12/18

12

18

AB

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 4	SHEET 414	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 4 .DWG
LAYOUT NAME - 03

PLOT DATE : 1/30/2022 1:31 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2

N

ROAD CLOSED 1000 FT
W20-3C

TEMPORARY PORTABLE RUMBLE STRIPS ARRAY REQUIRED.
EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

RUMBLE STRIPS AHEAD
W21-6S

R11-3
60" X 30"
ROAD CLOSED
1/2 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

ROAD CLOSED AHEAD
W20-3A

CLOSE LEFT LANE OF USH 12/18
STARTING AT CTH N WB ON RAMP

LOCAL TRAFFIC ONLY

12 18

FEMRITE DR

ROTHAMER RD

SIGGELKOW RD

VILAS RD

250'

250'

1000'

VILAS RD

12 18

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 4	SHEET 415	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 4 .DWG
LAYOUT NAME - 04

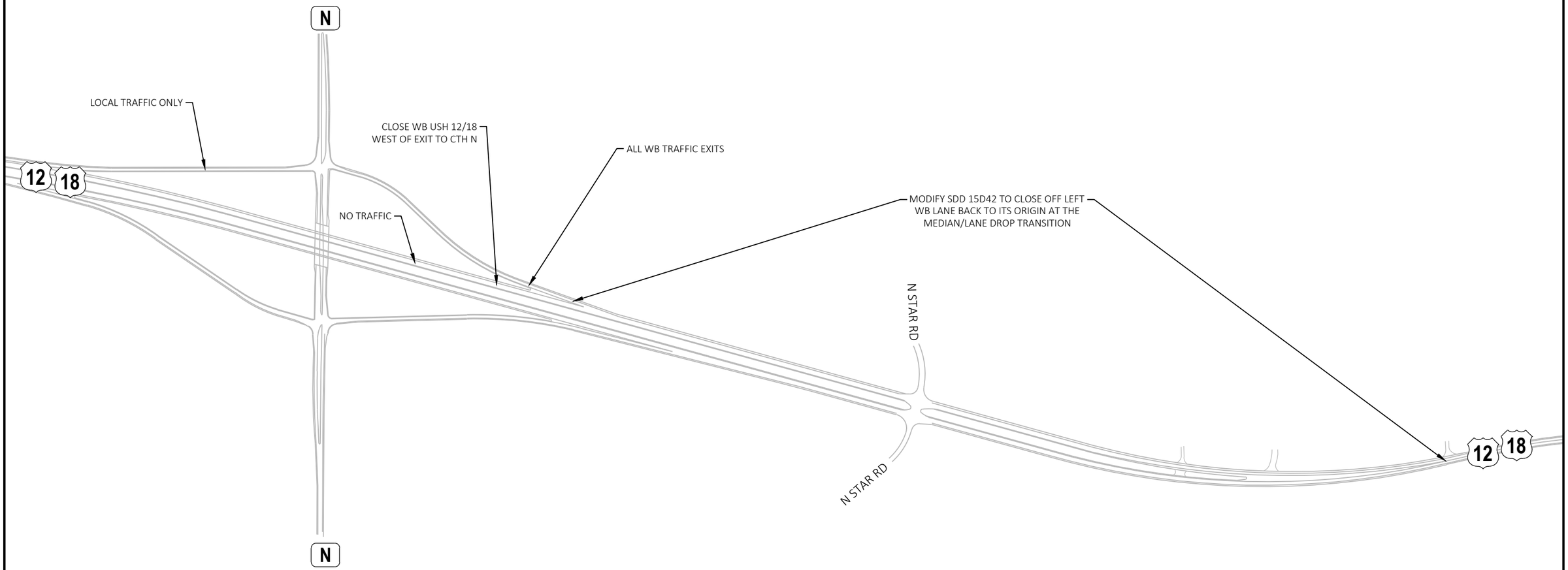
PLOT DATE : 1/30/2022 1:31 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2

2

N



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 4	SHEET 416	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 4 .DWG
LAYOUT NAME - 05

PLOT DATE : 1/30/2022 1:31 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:500 FT

2

2

N

WO12-1D
24"X24"

12 18

R3-2
24"X24"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

25' (TYP)

EB USH 12/18 MEDIAN LANE CLOSED.
ONE-LANE LOCAL EB TRAFFIC CAN
TURN RIGHT OR LEFT AT MILLPOND RD.

NO TRAFFIC

HARD CLOSURE

MILLPOND RD

15' (TYP)

R3-1
24"X24"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

12 18

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 4	SHEET 417	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 4 .DWG
LAYOUT NAME - 06 - (DETAIL)

PLOT DATE : 1/30/2022 1:31 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R3-1
24"X24"

FEMRITE DR

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

12
18

15' (TYP)

HARD CLOSURE

NO TRAFFIC

WO12-1D
24"X24"

25' (TYP)

ONE-LANE LOCAL WB TRAFFIC CAN TURN RIGHT OR LEFT AT CTH AB.

ROTHAMER RD

SIGGELKOW RD

R3-2
24"X24"

HARD CLOSURE
(THRU LANES)

12
18

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 4	SHEET 418	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 4 .DWG
LAYOUT NAME - 07 - (DETAIL)

PLOT DATE : 1/30/2022 1:31 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

SOFT CLOSURE

LOCAL TRAFFIC ONLY

NO TRAFFIC

R11-3
60" X 30"
ROAD CLOSED
1 1/2 MILES AHEAD
LOCAL TRAFFIC ONLY
TYPE III BARRICADE

LEFT TURN LANE CLOSED

25' (TYP)

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

12 18

N

NO TRAFFIC

12 18

N

2

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 4	SHEET 419	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 4 .DWG
LAYOUT NAME - 08 - (DETAIL)

PLOT DATE : 1/30/2022 1:31 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

39

90

SIDEWALK CLOSED
R9-9
30"X18"
ON SIGN SUPPORT BEHIND TEMPORARY PEDESTRIAN BARRICADE

R10-61(MOD)
60"X30"
EB 12/18
OPEN TO
MILLPOND
TYPE III BARRICADE

R10-61(MOD)
60"X30"
EB 12/18
OPEN TO
MILLPOND
TYPE III BARRICADE

SIDEWALK CLOSED
R9-9
30"X18"
ON SIGN SUPPORT BEHIND TEMPORARY PEDESTRIAN BARRICADE

39

90

N

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	USH 12-18 FULL FREEWAY CLOSURE - CONFIGURATION 4	SHEET 420	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_025150_TC (12-18 CLOSURE) - CONFIG 4 .DWG
LAYOUT NAME - 09 - (DETAIL)

PLOT DATE : 2/14/2022 9:49 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

GENERAL NOTES: TRAFFIC CONTROL AND DETOURS

SEE THE TRAFFIC CONTROL PLAN FOR APPLICATION OF THE DETOUR.

SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" FOR ADDITIONAL DETAILS NOT SHOWN ON THIS PLAN.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD. ADJUSTMENTS TO FIT FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE TRAFFIC CONTROL PLAN, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

ALL"W" AND "WO" SIGNS SHALL BE 48"X48" UNLESS OTHERWISE NOTED AND SHALL HAVE REFLECTIVE FLORESCENT DIAMOND GRADE SHEETING.

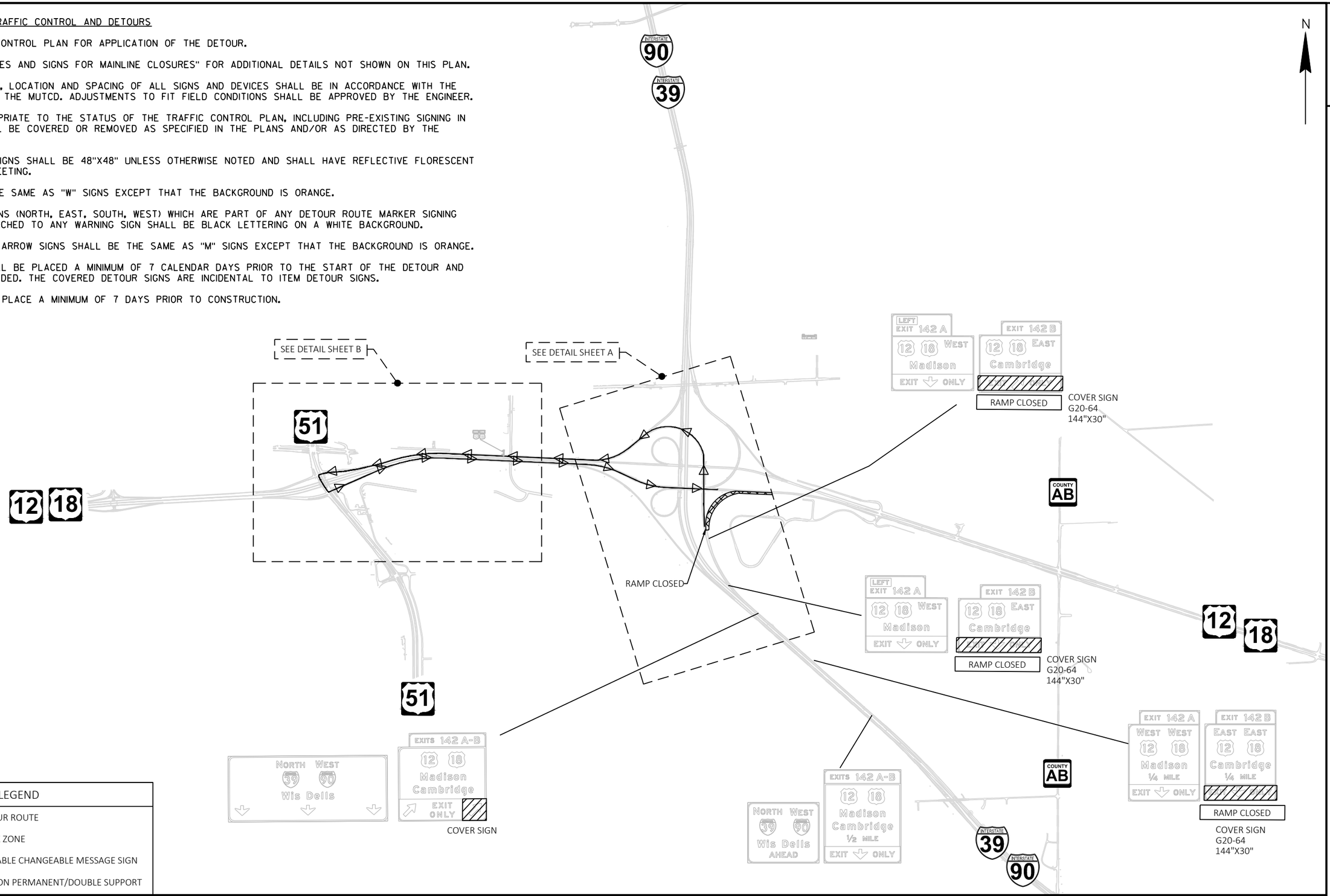
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL M3 SERIES SIGNS (NORTH, EAST, SOUTH, WEST) WHICH ARE PART OF ANY DETOUR ROUTE MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGN SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

DETOUR SIGNS SHALL BE PLACED A MINIMUM OF 7 CALENDAR DAYS PRIOR TO THE START OF THE DETOUR AND COVERED UNTIL NEEDED. THE COVERED DETOUR SIGNS ARE INCIDENTAL TO ITEM DETOUR SIGNS.

PCMS SHALL BE IN PLACE A MINIMUM OF 7 DAYS PRIOR TO CONSTRUCTION.



LEGEND

- DETOUR ROUTE
- WORK ZONE
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN ON PERMANENT/DOUBLE SUPPORT

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	DETOUR PLAN - IH 39 NB TO USH 12-18 EB RAMP LONG TERM CLOSURE	SHEET 421	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027005_DT (N2E).DWG
LAYOUT NAME - 01

PLOT DATE : 1/30/2022 12:32 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:2000 FT

WISDOT/CADDS SHEET 42

2

NB I-39/90 TO EB USH 12/18 RAMP CLOSURE

LONG TERM RAMP CLOSURE

2

N

MO4-5 36"X18" | TO EAST | MO4-5 36"X18"
M3-2 36"X18" | TO EAST | M3-2 36"X18"
M1-4 36"X36" | 12 18 | M1-4 36"X36"
MO5-2L 30"X30" | | MO5-2L 30"X30"

HWY 12-18 EAST
RAMP CLOSED
USE EXIT 142A

FIXED MESSAGE SIGN
NB3

PCMS

PCMS MESSAGE:

RAMP CLOSED BEGINS	DATE & TIME
FRAME A	FRAME B

(IN PLACE A MINIMUM OF 7 DAYS PRIOR TO RAMP CLOSURE)

RAMP CLOSED

IH 39 SB

USH 12/18 EB

USH 12/18 WB

IH 39 NB

FEMRITE DRIVE

MO4-5 36"X18" | TO EAST | MO4-5 36"X18"
M3-2 36"X18" | TO EAST | M3-2 36"X18"
M1-4 36"X36" | 12 18 | M1-4 36"X36"
MO6-2 30"X30" | | MO6-2 30"X30"

LEGEND	
◁ ◁	DETOUR ROUTE
	WORK ZONE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
	SIGN ON PERMANENT/DOUBLE SUPPORT

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	DETOUR PLAN - IH 39 NB TO USH 12-18 EB RAMP LONG TERM CLOSURE	SHEET 422	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027005_DT (N2E).DWG
LAYOUT NAME - 02

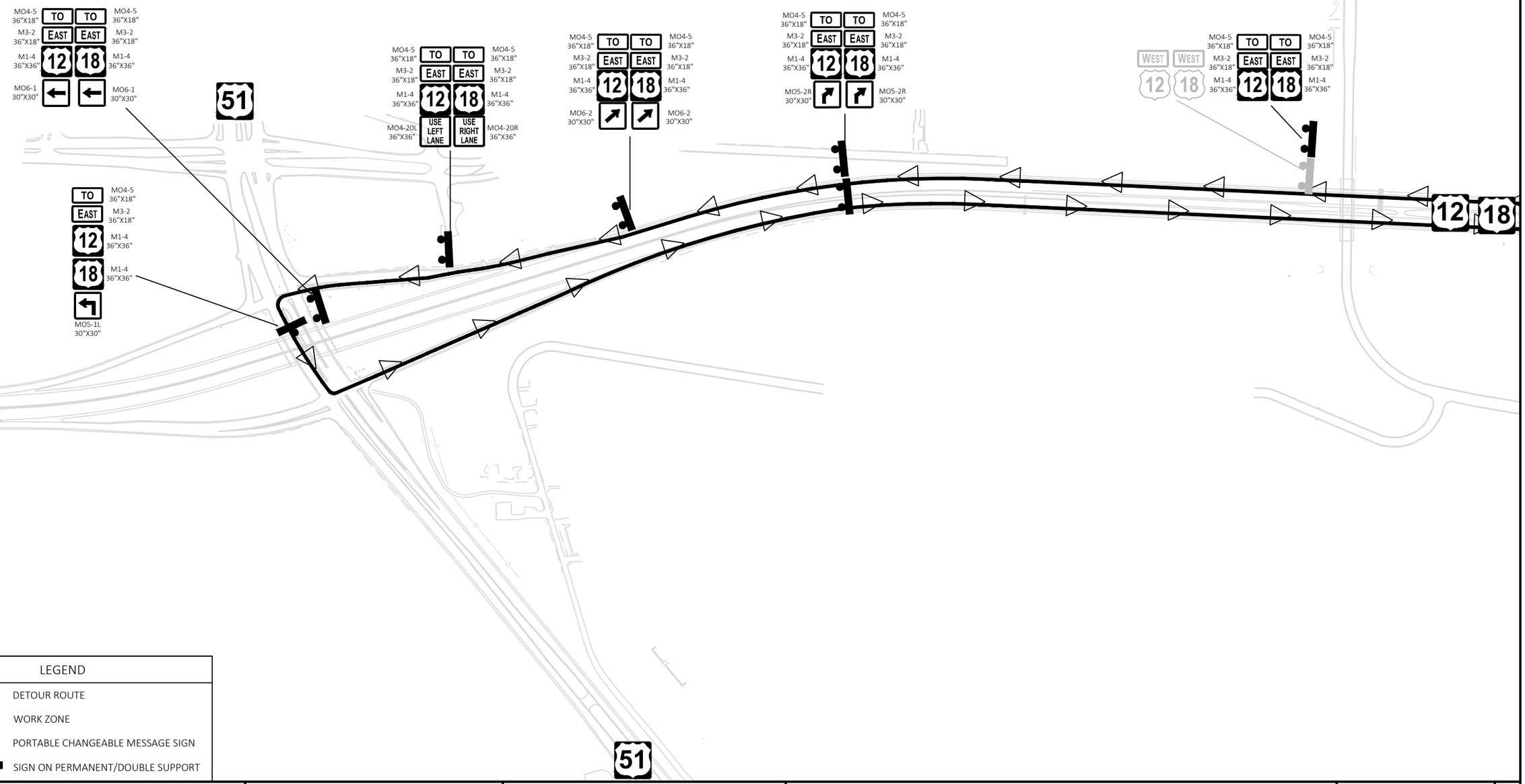
PLOT DATE : 1/30/2022 12:32 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:400 FT

NB I-39/90 TO EB USH 12/18 RAMP CLOSURE

LONG TERM RAMP CLOSURE

2

N



LEGEND	
	DETOUR ROUTE
	WORK ZONE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
	SIGN ON PERMANENT/DOUBLE SUPPORT

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	DETOUR PLAN - IH 39 NB TO USH 12-18 EB RAMP LONG TERM CLOSURE	SHEET 423	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027005_DT (N2E).DWG
LAYOUT NAME - 03

PLOT DATE : 1/30/2022 12:32 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:400 FT

GENERAL NOTES: TRAFFIC CONTROL AND DETOURS

SEE THE TRAFFIC CONTROL PLAN FOR APPLICATION OF THE DETOUR.

SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" FOR ADDITIONAL DETAILS NOT SHOWN ON THIS PLAN.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD. ADJUSTMENTS TO FIT FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE TRAFFIC CONTROL PLAN, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

ALL"W" AND "WO" SIGNS SHALL BE 48"X48" UNLESS OTHERWISE NOTED AND SHALL HAVE REFLECTIVE FLORESCENT DIAMOND GRADE SHEETING.

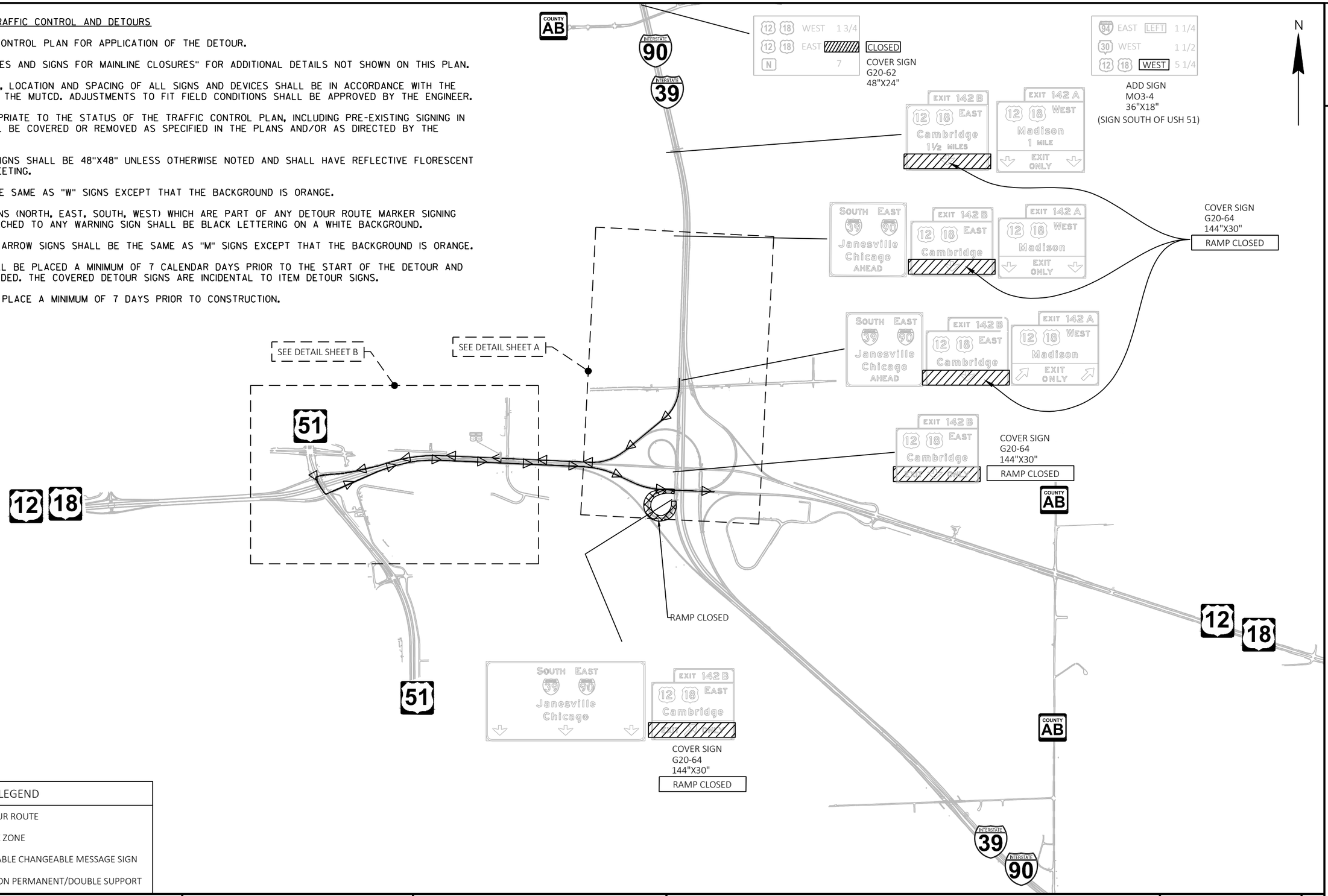
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL M3 SERIES SIGNS (NORTH, EAST, SOUTH, WEST) WHICH ARE PART OF ANY DETOUR ROUTE MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGN SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

DETOUR SIGNS SHALL BE PLACED A MINIMUM OF 7 CALENDAR DAYS PRIOR TO THE START OF THE DETOUR AND COVERED UNTIL NEEDED. THE COVERED DETOUR SIGNS ARE INCIDENTAL TO ITEM DETOUR SIGNS.

PCMS SHALL BE IN PLACE A MINIMUM OF 7 DAYS PRIOR TO CONSTRUCTION.



LEGEND

- DETOUR ROUTE
- WORK ZONE
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN ON PERMANENT/DOUBLE SUPPORT

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	DETOUR PLAN - IH 39 SB TO USH 12-18 EB RAMP LONG TERM CLOSURE	SHEET 424	E

DETAIL SHEET A

PCMS MESSAGE:

RAMP CLOSED BEGINS	DATE & TIME
FRAME A	FRAME B

(IN PLACE A MINIMUM OF 7 DAYS PRIOR TO RAMP CLOSURE)

RAMP CLOSED

PCMS

12 18

IH 39 SB

IH 39 NB

USH 12/18 EB

USH 12/18 WB

FEMRITE DRIVE

INTERSTATE 39 INTERSTATE 90

INTERSTATE 39 INTERSTATE 90

12 18

MO4-5 36"X18" TO TO MO4-5 36"X18"
M3-2 36"X18" EAST EAST M3-2 36"X18"
M1-4 36"X36" 12 18 M1-4 36"X36"
MO6-2 30"X30" MO6-2 30"X30"

MO4-5 36"X18" TO TO MO4-5 36"X18"
M3-2 36"X18" EAST EAST M3-2 36"X18"
M1-4 36"X36" 12 18 M1-4 36"X36"
MO5-2R 30"X30" MO5-2R 30"X30"

HWY 12-18 EAST
RAMP CLOSED
USE EXIT 142A

G20-56
120"X54"
FIXED MESSAGE
SIGN SB8

LEGEND

- DETOUR ROUTE
- WORK ZONE
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN ON PERMANENT/DOUBLE SUPPORT

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	DETOUR PLAN - IH 39 SB TO USH 12-18 EB RAMP LONG TERM CLOSURE	SHEET 425	E

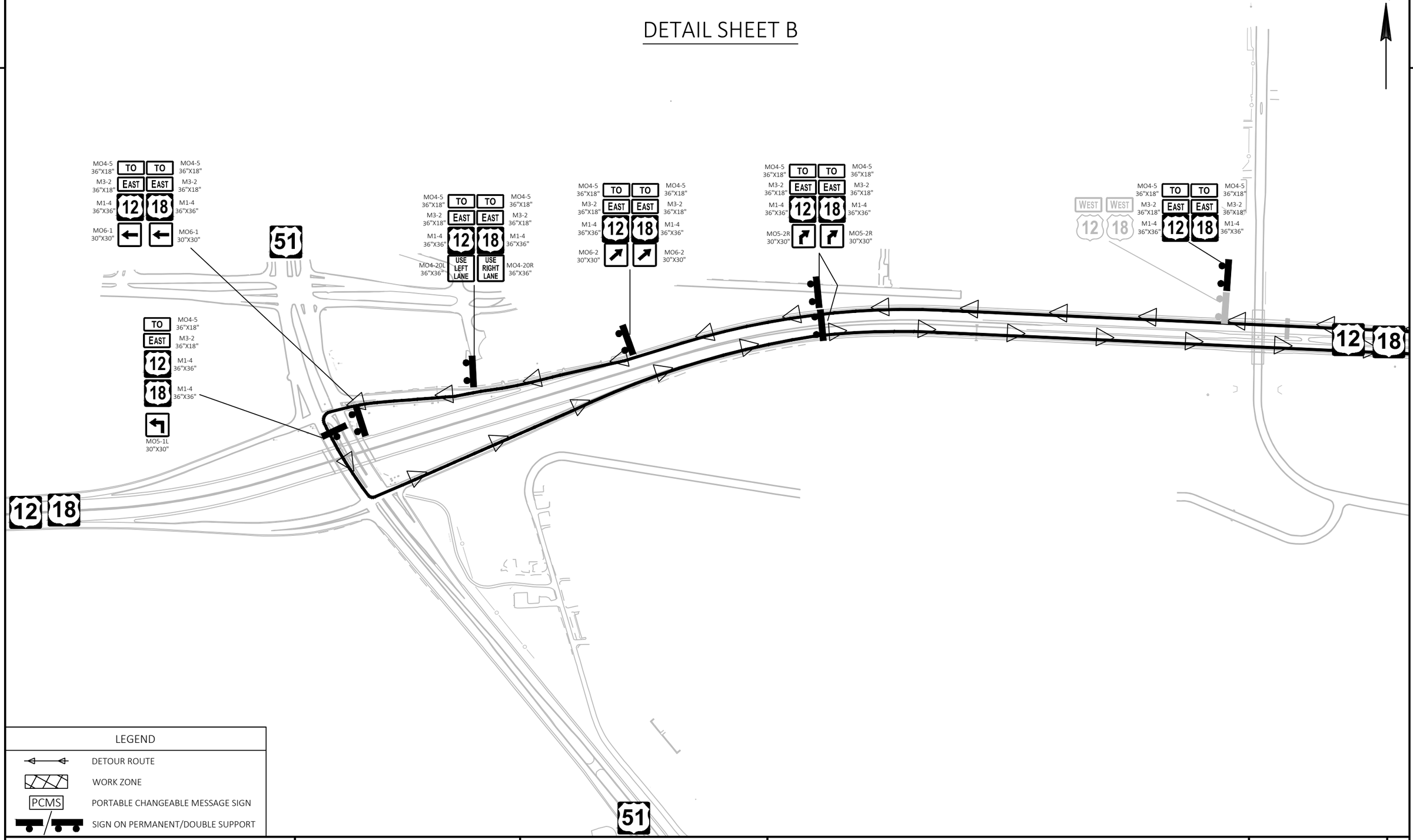
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027005_DT (S2E).DWG
LAYOUT NAME - 02

PLOT DATE : 1/30/2022 12:34 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42

DETAIL SHEET B

N



LEGEND

- DETOUR ROUTE
- WORK ZONE
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN ON PERMANENT/DOUBLE SUPPORT

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	DETOUR PLAN - IH 39 SB TO USH 12-18 EB RAMP LONG TERM CLOSURE	SHEET 426	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027005_DT (S2E).DWG
LAYOUT NAME - 03

PLOT DATE : 1/30/2022 12:34 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:400 FT

STATION & OFFSET TABLE FENCE JOGS (3' INSIDE OF R/W TYPICAL)				
POINT	STATION	OFFSET	Y	X
1000	119+98.25EB	69.87' RT	472147.740	851470.881
1001	122+76.76EB	71.22' RT	472133.662	851748.858
1002	126+35.57EB	76.37' RT	472100.522	852101.509
1003	128+11.67EB	84.60' RT	472070.625	852272.758
1004	128+11.18EB	74.58' RT	472080.614	852273.679
1005	130+20.77EB	79.45' RT	472043.108	852477.095
1006	130+21.46EB	87.39' RT	472035.169	852476.362
1007	131+03.10EB	86.45' RT	472021.374	852555.585
1008	132+89.88EB	68.00' RT	472001.486	852739.713
1009	136+02.95EB	82.36' RT	471910.947	853035.458
1010	144+31.97EB	100.76' RT	471642.157	853816.674
1012	145+19.89EB	98.57' RT	471617.136	853900.980
1013	146+95.00EB	48.33' RT	471610.916	854083.049
1014	146+95.00EB	40.00' RT	471618.843	854085.619
1015	139+80.06EB	125.66' LT	471996.915	853456.620
1021	143+00.06EB	140.00' LT	471911.866	853765.444

LEGEND

FENCE WOVEN WIRE 4-FT

FENCE TO BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION

N

EXISTING R/W (TYP)

SLOPE INTERCEPTS

USH 12/18 WB

MAAHIC WAY

USH 12/18 EB

LONG DRIVE

MILLPOND RD

PROPOSED R/W (TYP)

TLE

TLE

SLOPE INTERCEPTS

120EB 125EB 130EB 135EB 140EB 145EB

1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1012 1013 1014 1015 1021

5

5

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	FENCING PLAN	SHEET 427	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027101_FN.DWG
LAYOUT NAME - fn_01

PLOT DATE : 5/23/2022 9:04 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

LEGEND

FENCE WOVEN WIRE 4-FT

FENCE TO BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION

FENCE CHAIN LINK SALVAGE

N

EXISTING R/W (TYP)

PROPOSED R/W (TYP)

SALVAGE & MOVE EXISTING LANDFILL FENCE TO PERMANENT LOCATION AFTER WORK IS COMPLETED IN THIS MARSH AREA.

ACCESS GATES BY OTHERS PRIOR TO CONSTRUCTION

SLOPE INTERCEPTS

TLE

LANDFILL DR

PERMANENT LOCATION

1017 1018 1019 1020

MAAHIC WAY

MAAHIC WAY

1021 1026 1027

5

5

USH 12/18 WB

USH 12/18 WB

145EB 150EB 155EB 160EB 165EB 170EB

1014 1013

USH 12/18 EB

USH 12/18 EB

1012

1010

MILLPOND RD

TLE

PROPOSED R/W (TYP)

SLOPE INTERCEPTS

TLE

EXISTING R/W (TYP)

STATION & OFFSET TABLE FENCE JOGS
(3' INSIDE OF R/W TYPICAL)

POINT	STATION	OFFSET	Y	X
1010	144+31.97EB	100.76' RT	471642.157	853816.674
1012	145+19.89EB	98.57' RT	471617.136	853900.980
1013	146+95.00EB	48.33' RT	471610.916	854083.049
1014	146+95.00EB	40.00' RT	471618.843	854085.619
1017	151+48.93EB	245.27' LT	471750.219	854605.405
1018	152+50.30EB	225.00' LT	471699.675	854695.575
1019	158+99.90EB	225.00' LT	471499.340	855313.518
1020	160+23.49EB	233.01' LT	471468.848	855433.556
1021	143+00.06EB	140.00' LT	471911.866	853765.444
1026	156+55.16EB	140.00' LT	471493.959	855054.494

STATION & OFFSET TABLE FENCE JOGS
(3' INSIDE OF R/W TYPICAL)

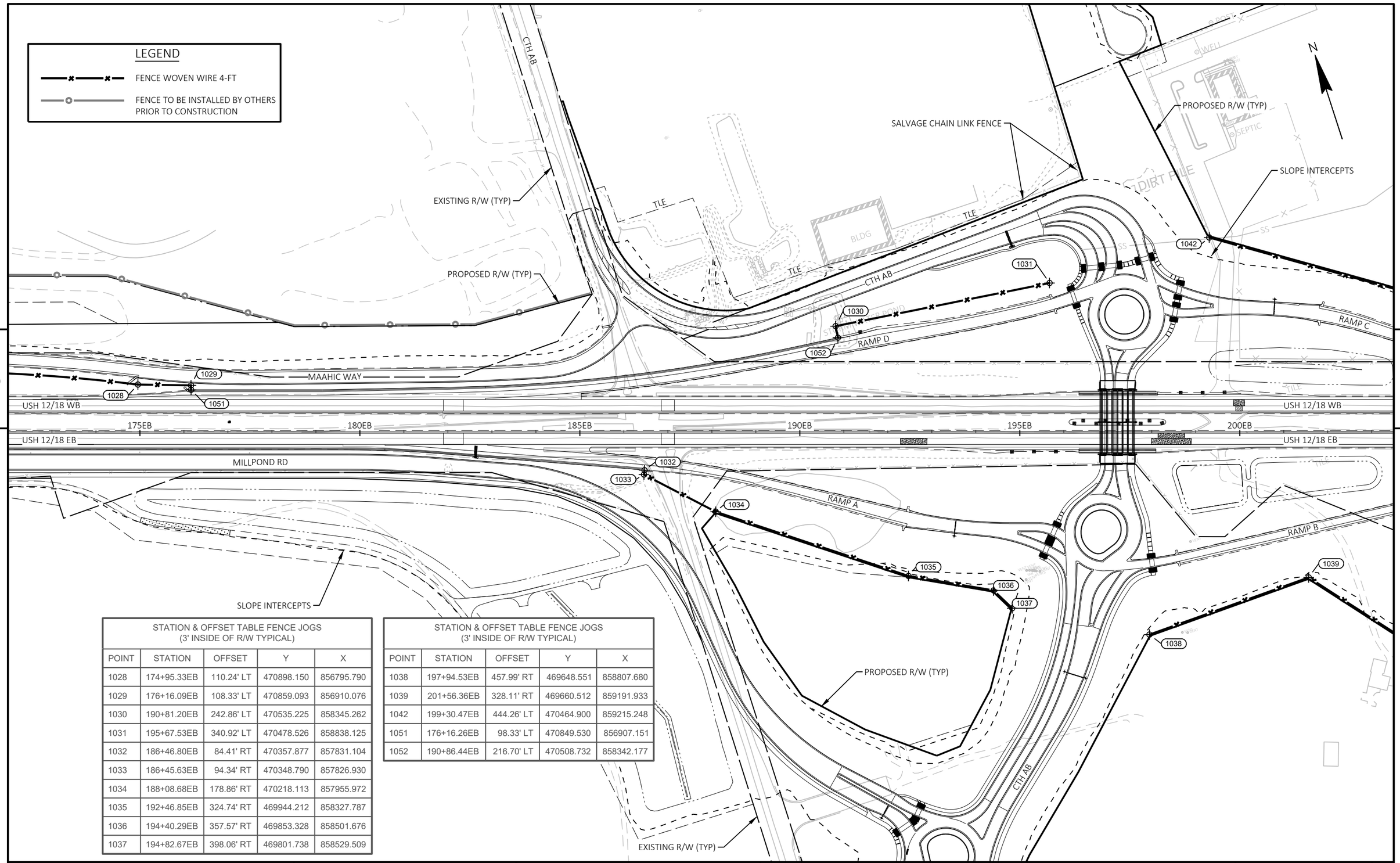
POINT	STATION	OFFSET	Y	X
1027	170+10.26EB	140.00' LT	471076.052	856343.544

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	FENCING PLAN	SHEET 428	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027101_FN.DWG
LAYOUT NAME - fn_02

PLOT DATE : 5/23/2022 9:04 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44



5

5

STATION & OFFSET TABLE FENCE JOGS
(3' INSIDE OF R/W TYPICAL)

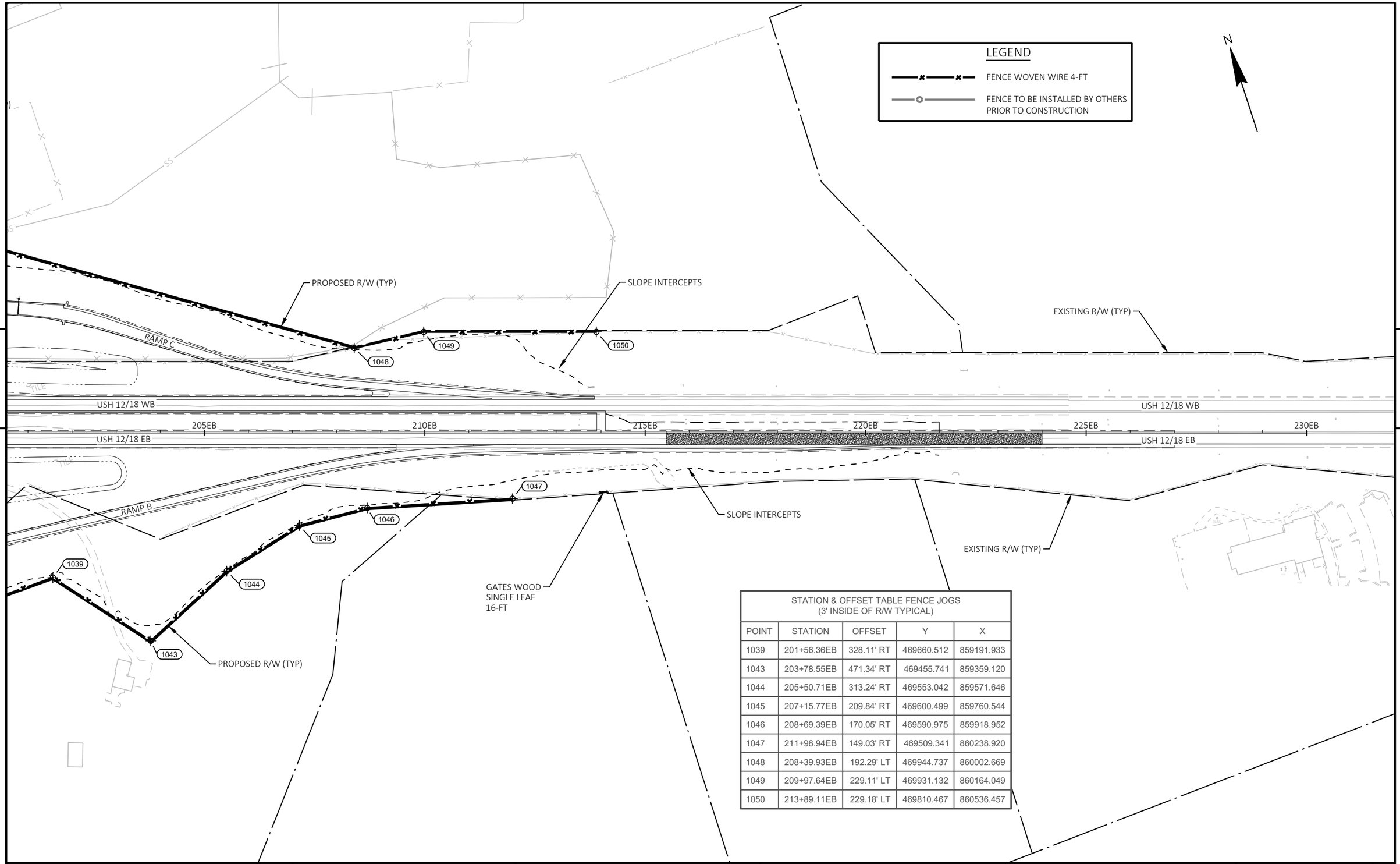
POINT	STATION	OFFSET	Y	X
1028	174+95.33EB	110.24' LT	470898.150	856795.790
1029	176+16.09EB	108.33' LT	470859.093	856910.076
1030	190+81.20EB	242.86' LT	470535.225	858345.262
1031	195+67.53EB	340.92' LT	470478.526	858838.125
1032	186+46.80EB	84.41' RT	470357.877	857831.104
1033	186+45.63EB	94.34' RT	470348.790	857826.930
1034	188+08.68EB	178.86' RT	470218.113	857955.972
1035	192+46.85EB	324.74' RT	469944.212	858327.787
1036	194+40.29EB	357.57' RT	469853.328	858501.676
1037	194+82.67EB	398.06' RT	469801.738	858529.509

STATION & OFFSET TABLE FENCE JOGS
(3' INSIDE OF R/W TYPICAL)

POINT	STATION	OFFSET	Y	X
1038	197+94.53EB	457.99' RT	469648.551	858807.680
1039	201+56.36EB	328.11' RT	469660.512	859191.933
1042	199+30.47EB	444.26' LT	470464.900	859215.248
1051	176+16.26EB	98.33' LT	470849.530	856907.151
1052	190+86.44EB	216.70' LT	470508.732	858342.177

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	FENCING PLAN	SHEET 429	E

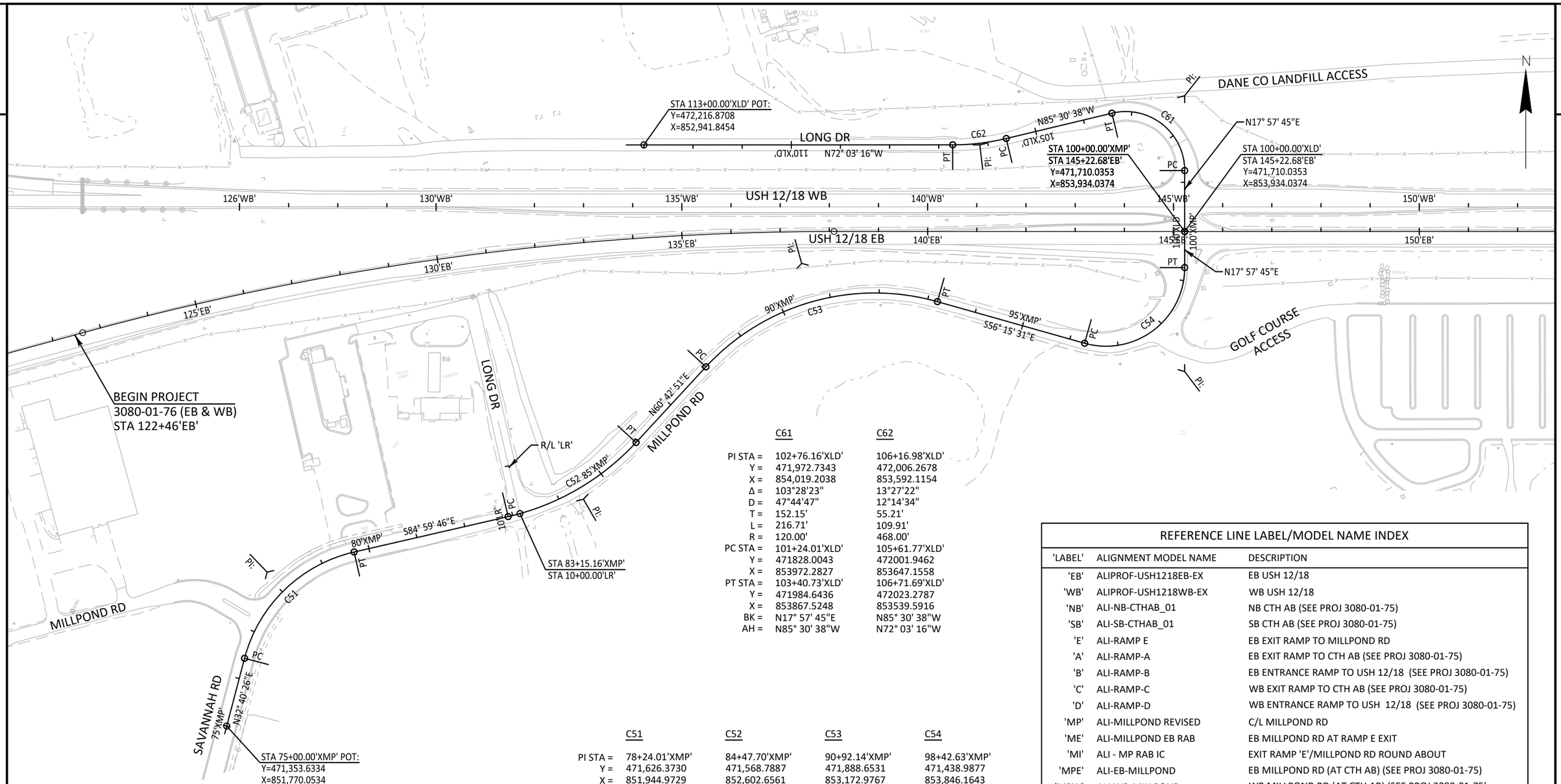
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027101_FN.DWG
LAYOUT NAME - fn_03
PLOT DATE : 5/23/2022 9:04 AM
PLOT BY : MUENCH, DOUGLAS
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44



STATION & OFFSET TABLE FENCE JOGS
(3' INSIDE OF R/W TYPICAL)

POINT	STATION	OFFSET	Y	X
1039	201+56.36EB	328.11' RT	469660.512	859191.933
1043	203+78.55EB	471.34' RT	469455.741	859359.120
1044	205+50.71EB	313.24' RT	469553.042	859571.646
1045	207+15.77EB	209.84' RT	469600.499	859760.544
1046	208+69.39EB	170.05' RT	469590.975	859918.952
1047	211+98.94EB	149.03' RT	469509.341	860238.920
1048	208+39.93EB	192.29' LT	469944.737	860002.669
1049	209+97.64EB	229.11' LT	469931.132	860164.049
1050	213+89.11EB	229.18' LT	469810.467	860536.457

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	FENCING PLAN	SHEET 430	E



	C61	C62
PI STA =	102+76.16'XLD'	106+16.98'XLD'
Y =	471,972.7343	472,006.2678
X =	854,019.2038	853,592.1154
Δ =	103°28'23"	13°27'22"
D =	47°44'47"	12°14'34"
T =	152.15'	55.21'
L =	216.71'	109.91'
R =	120.00'	468.00'
PC STA =	101+24.01'XLD'	105+61.77'XLD'
Y =	471828.0043	472001.9462
X =	853972.2827	853647.1558
PT STA =	103+40.73'XLD'	106+71.69'XLD'
Y =	471984.6436	472023.2787
X =	853867.5248	853539.5916
BK =	N17° 57' 45"E	N85° 30' 38"W
AH =	N85° 30' 38"W	N72° 03' 16"W

	C51	C52	C53	C54
PI STA =	78+24.01'XMP'	84+47.70'XMP'	90+92.14'XMP'	98+42.63'XMP'
Y =	471,626.3730	471,568.7887	471,888.6531	471,438.9877
X =	851,944.9729	852,602.6561	853,172.9767	853,846.1643
Δ =	62°19'48"	34°17'23"	63°01'39"	105°46'44"
D =	19°05'55"	11°14'04"	12°14'34"	35°48'36"
T =	181.44'	157.33'	286.94'	211.48'
L =	326.36'	305.22'	514.82'	295.39'
R =	300.00'	510.00'	468.00'	160.00'
PC STA =	76+42.58'XMP'	82+90.36'XMP'	88+05.20'XMP'	96+31.15'XMP'
Y =	471473.6475	471582.5118	471748.2890	471556.4520
X =	851847.0236	852445.9220	852922.7064	853670.3101
PT STA =	79+68.94'XMP'	85+95.58'XMP'	93+20.02'XMP'	99+26.54'XMP'
Y =	471610.5476	471645.7513	471729.2704	471640.1570
X =	852125.7177	852739.8810	853411.5862	853911.3830
BK =	N32° 40' 26"E	S84° 59' 46"E	N60° 42' 51"E	S56° 15' 31"E
AH =	S84° 59' 46"E	N60° 42' 51"E	S56° 15' 31"E	N17° 57' 45"E

REFERENCE LINE LABEL/MODEL NAME INDEX

'LABEL'	ALIGNMENT MODEL NAME	DESCRIPTION
'EB'	ALIPROF-USH1218EB-EX	EB USH 12/18
'WB'	ALIPROF-USH1218WB-EX	WB USH 12/18
'NB'	ALI-NB-CTHAB_01	NB CTH AB (SEE PROJ 3080-01-75)
'SB'	ALI-SB-CTHAB_01	SB CTH AB (SEE PROJ 3080-01-75)
'E'	ALI-RAMP E	EB EXIT RAMP TO MILLPOND RD
'A'	ALI-RAMP-A	EB EXIT RAMP TO CTH AB (SEE PROJ 3080-01-75)
'B'	ALI-RAMP-B	EB ENTRANCE RAMP TO USH 12/18 (SEE PROJ 3080-01-75)
'C'	ALI-RAMP-C	WB EXIT RAMP TO CTH AB (SEE PROJ 3080-01-75)
'D'	ALI-RAMP-D	WB ENTRANCE RAMP TO USH 12/18 (SEE PROJ 3080-01-75)
'MP'	ALI-MILLPOND REVISED	C/L MILLPOND RD
'ME'	ALI-MILLPOND EB RAB	EB MILLPOND RD AT RAMP E EXIT
'MI'	ALI - MP RAB IC	EXIT RAMP 'E'/MILLPOND RD ROUND ABOUT
'MPE'	ALI-EB-MILLPOND	EB MILLPOND RD (AT CTH AB) (SEE PROJ 3080-01-75)
'MPW'	ALI-WB-MILLPOND	WB MILLPOND RD (AT CTH AB) (SEE PROJ 3080-01-75)
'LD'	ALIPROF-LONG DRIVE	C/L USH 12 & 18 SERVICE ROAD
'LR'	ALI - LONG ROAD	C/L LONG DR (SOUTH OF USH 12/18 AT MILLPOND RD)
'GC'	ALI-GOLF COURSE	YAHARA HILLS GOLF COURSE ACCESS
'LA'	ALIPROF-LANDFILL	DANE COUNTY RODEFELD LANDFILL ACCESS
'MRE'	ALI-GOLF ACCESS EAST	EAST GOLF COURSE MAINTENANCE ROAD
'MRW'	ALI-GOLF ACCESS WEST	WEST GOLF COURSE MAINTENANCE ROAD
'XAB'	ALIPROF-CTHAB-EX	C/L EXISTING CTH AB (SEE PROJ 3080-01-75)
'XMP'	ALIPROF-MILLPOND-EXISTING	C/L EXISTING MILLPOND RD
'XLD'	ALIPROF-LONG DRIVE-EXISTING	C/L EXISTING LONG DRIVE

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 431	E

REFERENCE LINE LABEL/MODEL NAME INDEX

'LABEL'	ALIGNMENT MODEL NAME	DESCRIPTION
'EB'	ALIPROF-USH1218EB-EX	EB USH 12/18
'WB'	ALIPROF-USH1218WB-EX	WB USH 12/18
'NB'	ALI-NB-CTHAB_01	NB CTH AB (SEE PROJ 3080-01-75)
'SB'	ALI-SB-CTHAB_01	SB CTH AB (SEE PROJ 3080-01-75)
'E'	ALI-RAMP E	EB EXIT RAMP TO MILLPOND RD
'A'	ALI-RAMP-A	EB EXIT RAMP TO CTH AB (SEE PROJ 3080-01-75)
'B'	ALI-RAMP-B	EB ENTRANCE RAMP TO USH 12/18 (SEE PROJ 3080-01-75)
'C'	ALI-RAMP-C	WB EXIT RAMP TO CTH AB (SEE PROJ 3080-01-75)
'D'	ALI-RAMP-D	WB ENTRANCE RAMP TO USH 12/18 (SEE PROJ 3080-01-75)
'MP'	ALI-MILLPOND REVISED	C/L MILLPOND RD
'ME'	ALI-MILLPOND EB RAB	EB MILLPOND RD AT RAMP E EXIT
'MI'	ALI - MP RAB IC	EXIT RAMP 'E'/MILLPOND RD ROUND ABOUT
'MPE'	ALI-EB-MILLPOND	EB MILLPOND RD (AT CTH AB) (SEE PROJ 3080-01-75)
'MPW'	ALI-WB-MILLPOND	WB MILLPOND RD (AT CTH AB) (SEE PROJ 3080-01-75)
'LD'	ALIPROF-LONG DRIVE	C/L USH 12 & 18 SERVICE ROAD
'LR'	ALI - LONG ROAD	C/L LONG DR (SOUTH OF USH 12/18 AT MILLPOND RD)
'GC'	ALI-GOLF COURSE	YAHARA HILLS GOLF COURSE ACCESS
'LA'	ALIPROF-LANDFILL	DANE COUNTY RODEFELD LANDFILL ACCESS
'MRE'	ALI-GOLF ACCESS EAST	EAST GOLF COURSE MAINTENANCE ROAD
'MRW'	ALI-GOLF ACCESS WEST	WEST GOLF COURSE MAINTENANCE ROAD
'XAB'	ALIPROF-CTHAB-EX	C/L EXISTING CTH AB (SEE PROJ 3080-01-75)
'XMP'	ALIPROF-MILLPOND-EXISTING	C/L EXISTING MILLPOND RD
'XLD'	ALIPROF-LONG DRIVE-EXISTING	C/L EXISTING LONG DRIVE

	C1	C11	C31	C32	C33	C41	C42
PI STA =	130+40.71'EB'	34+16.04'E'	324+69.54'MP'	330+93.23'MP'	338+36.70'MP'	440+84.34'LD'	442+44.52'LD'
Y =	472,169.9429	472,007.6061	471,626.3730	471,568.7887	471,937.0925	472,012.9498	471,959.4368
X =	852,515.4360	852,871.0883	851,944.9729	852,602.6561	853,259.3445	853,571.4835	853,722.4744
Δ =	15°20'45"	7°21'14"	62°19'48"	34°17'23"	77°58'34"	1°34'10"	1°33'09"
D =	0°59'32"	1°38'13"	19°05'55"	11°14'04"	11°14'04"	1°23'51"	1°23'51"
T =	778.03'	224.92'	181.44'	157.33'	412.81'	56.15'	55.55'
L =	1,546.75'	449.23'	326.36'	305.22'	694.08'	112.30'	111.09'
R =	5,775.00'	3,500.00'	300.00'	510.00'	510.00'	4,100.00'	4,100.00'
PC STA =	122+62.67'EB'	31+91.12'E'	322+88.10'MP'	329+35.89'MP'	334+23.88'MP'	440+28.18'LD'	441+88.98'LD'
Y =	472205.4634	472053.6267	471473.6475	471582.5118	471735.1570	472030.2518	471977.9921
X =	851738.2132	852650.9245	851847.0236	852445.9220	852899.2920	853518.0610	853670.1192
PT STA =	138+09.43'EB'	36+40.35'E'	326+14.46'MP'	332+41.11'MP'	341+17.96'MP'	441+40.49'LD'	443+00.06'LD'
Y =	471930.0004	471933.7834	471610.5476	471645.7513	471627.0060	471994.1913	471942.3066
X =	853255.5472	853083.5506	852125.7177	852739.8810	853531.8553	853624.4121	853775.3131
BK =	S87° 23' 00"E	S78° 11' 37"E	N32° 40' 26"E	S84° 59' 46"E	N60° 42' 51"E	S72° 03' 16"E	S70° 29' 06"E
AH =	S72° 02' 15"E	S70° 50' 22"E	S84° 59' 46"E	N60° 42' 51"E	S41° 18' 35"E	S70° 29' 06"E	S72° 02' 15"E

N

STA 435+00.00'LD' POT:
Y=472,192.9925
X=853,015.5734
STA 135+09.48'EB', 184.20'LT

S70° 29' 06"E

US 12 & 18 SERVICE RD

S72° 03' 16"E

435'LD'

440'LD'

PI:

PC C41

PT

PC C42

PT

PI:

S72° 02' 15"E

126'WB'

130'WB'

USH 12/18 WB

S72° 02' 15"E

135'WB'

140'WB'

S72° 02' 15"E

145'WB'

145+00'EB'

STA 126+00.00'WB' POT:
Y=472,350.5459
X=852,120.4891
STA 126+27.18'EB', 174.23'LT

PI:

C1

130'EB'

32'E'

S78° 11' 37"E

135'EB'

C11

35'E'

EB EXIT RAMP

PT

S70° 50' 22"E

140'EB'

40'E'

S72° 02' 15"E

S70° 50' 22"E

145

125'EB'

USH 12/18 EB

STA 131+91.12'EB', 36.00 RT
STA 31+91.12'E', 0.00
Y=472,053.6267
X=852,650.9245

340'MP'

C33

335'MP'

PC

STA 115+00.00'EB' POT:
Y=472,240.2824
X=850,976.3384

S87° 23' 00"E

120'EB'

115'EB'

BEGIN PROJECT
3080-01-76 (EB & WB)
STA 122+46'EB'

STA 11+80.00'LR' POT:
Y=471,760.3355
X=852,485.5297

R/L 'LR'

LONG DR

N4° 44' 10"E

10'LR'

PC

330'MP'

C32

PI:

N60° 42' 51"E

ET

MILLPOND RD

SEE DETAIL, (SHOWN ELSEWHERE)

S84° 59' 46"E

STA 329+60.69'MP'
STA 10+00.00'LR'
Y=471,580.9502
X=852,470.6673

PI:

325'MP'

C31

PT

MILLPOND RD

PC

STA 322+00.00'MP' POT:
Y=471,399.4852
X=851,799.4601

N32° 40' 26"E

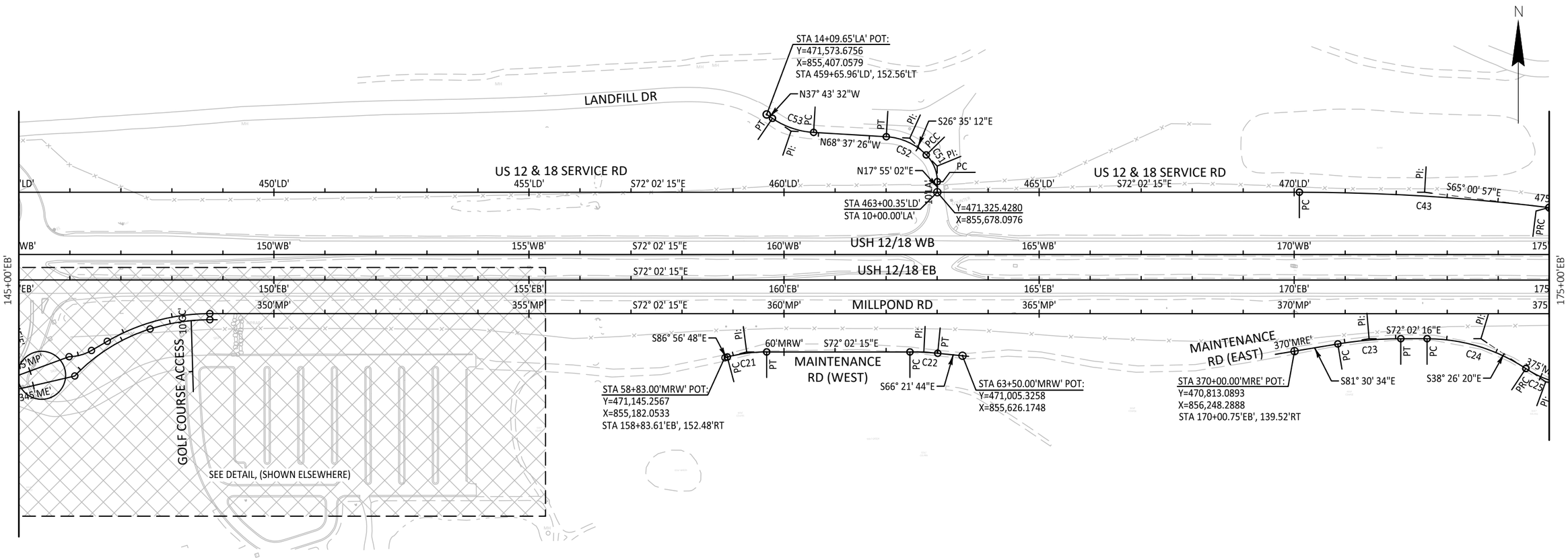
SAVANNAH RD

2

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 432	E

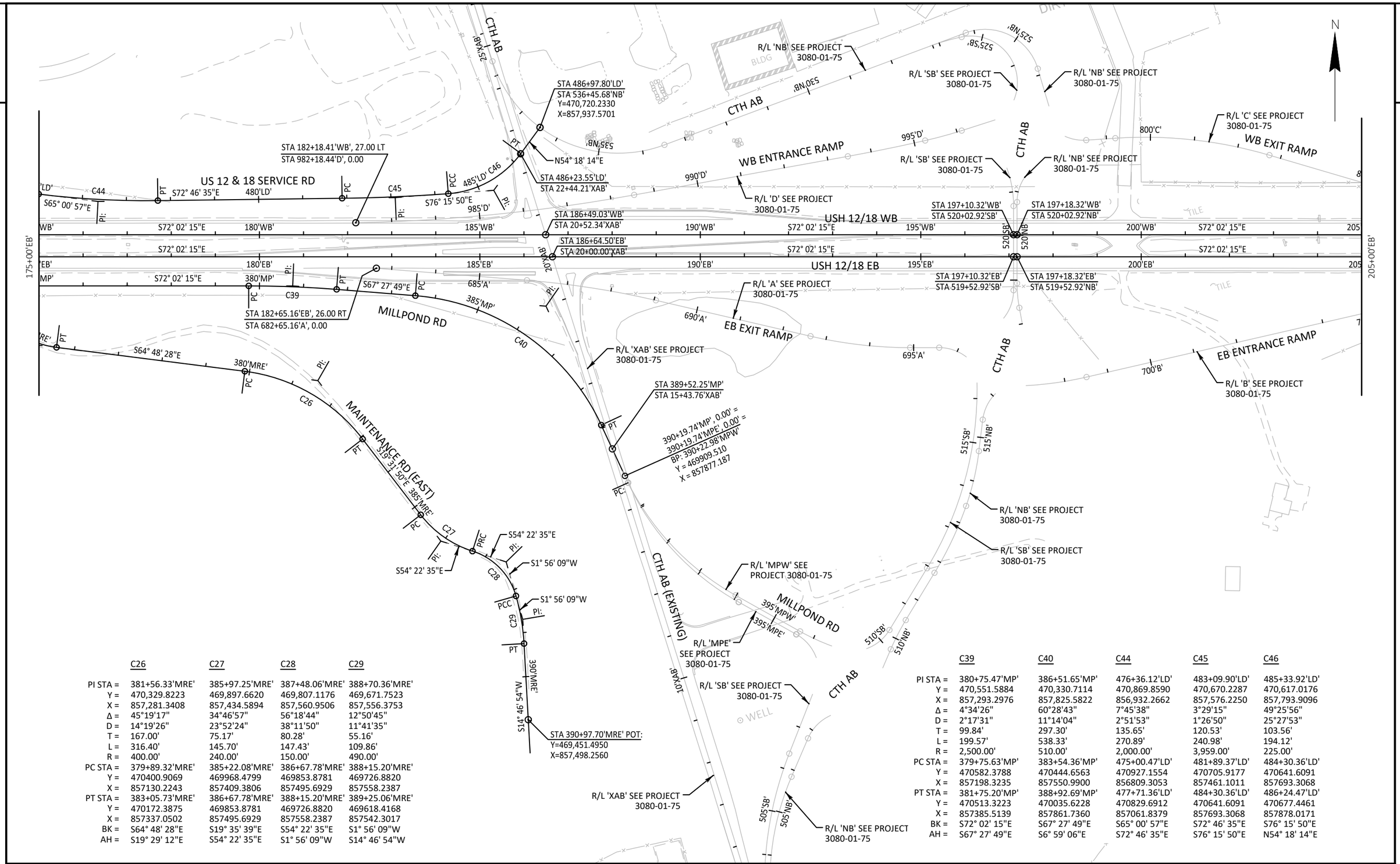
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\027200-AD (ALIGNMENT DETAIL).DWG PLOT DATE : 1/13/2022 4:36 PM PLOT BY : SEH LAYOUT NAME : 01 PLOT SCALE : 1.0 IN = 200.0 FT
WISDOT/CADDS SHEET 42

2



	C21	C22	C23	C24	C25	C43	C51	C52	C53
PI STA =	59+27.18'MRW'	62+74.08'MRW'	371+48.09'MRE'	373+67.15'MRE'	375+13.58'MRE'	472+55.67'LD'	10+51.36'LA'	11+25.03'LA'	13+53.98'LA'
Y =	471,142.9035	471,035.7849	470,791.2247	470,723.5809	470,604.1165	471,030.8089	471,374.2927	471,442.9668	471,527.9378
X =	855,226.1711	855,556.5821	856,394.7531	856,603.4084	856,698.2271	856,586.8603	855,693.8966	855,659.5271	855,442.4407
Δ =	14°54'34"	5°40'31"	9°28'18"	33°35'56"	26°22'08"	7°01'18"	44°30'14"	42°02'14"	30°53'54"
D =	19°05'55"	10°25'03"	7°38'22"	16°22'13"	28°38'52"	1°25'57"	76°23'40"	47°44'47"	35°48'36"
T =	39.25'	27.26'	62.13'	105.67'	46.85'	245.41'	30.69'	46.11'	44.22'
L =	78.07'	54.48'	123.98'	205.24'	92.04'	490.20'	58.26'	88.04'	86.28'
R =	300.00'	550.00'	750.00'	350.00'	200.00'	4,000.00'	75.00'	120.00'	160.00'
PC STA =	58+87.93'MRW'	62+46.82'MRW'	370+85.95'MRE'	372+61.48'MRE'	374+66.73'MRE'	470+10.26'LD'	10+20.67'LA'	10+78.92'LA'	13+09.76'LA'
Y =	471144.9943	471044.1924	470800.3983	470756.1676	470640.8146	471106.4922	471345.0947	471401.7341	471511.8204
X =	855186.9724	855530.6491	856333.3015	856502.8910	856669.0999	856353.4124	855684.4563	855680.1629	855483.6178
PT STA =	59+65.99'MRW'	63+01.30'MRW'	372+09.94'MRE'	374+66.73'MRE'	375+58.77'MRE'	475+00.47'LD'	10+78.92'LA'	11+66.97'LA'	13+96.05'LA'
Y =	471130.7976	471024.8542	470772.0637	470640.8146	470584.1736	470927.1554	471401.7341	471459.7728	471562.9129
X =	855263.5122	855581.5566	856453.8575	856669.0999	856740.6231	856809.3053	855680.1629	855616.5907	855415.3839
BK =	S86° 56' 48"E	S72° 02' 15"E	S81° 30' 34"E	S72° 02' 16"E	S38° 26' 20"E	S72° 02' 15"E	N17° 55' 02"E	N26° 35' 12"W	N68° 37' 26"W
AH =	S72° 02' 15"E	S66° 21' 44"E	S72° 02' 16"E	S38° 26' 20"E	S64° 48' 28"E	S65° 00' 57"E	N26° 35' 12"W	N68° 37' 26"W	N37° 43' 32"W

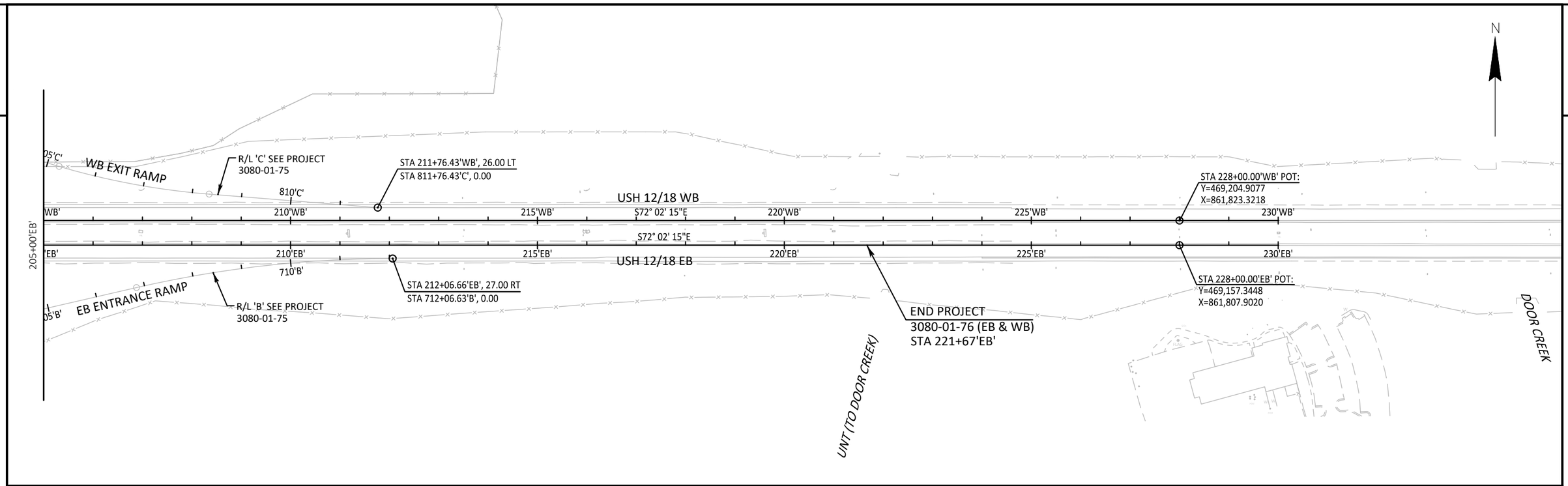
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 433	E

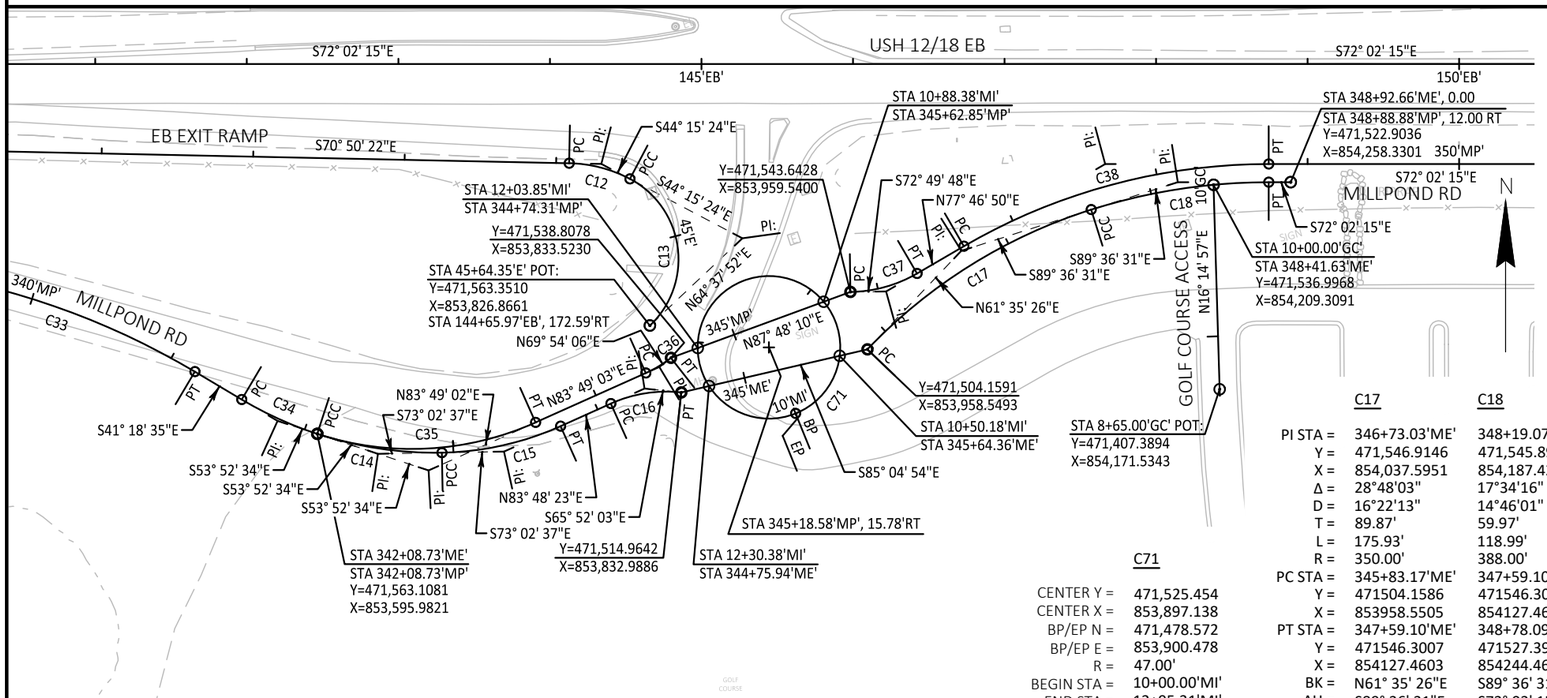


	C26	C27	C28	C29
PI STA =	381+56.33'MRE'	385+97.25'MRE'	387+48.06'MRE'	388+70.36'MRE'
Y =	470,329.8223	469,897.6620	469,807.1176	469,671.7523
X =	857,281.3408	857,434.5894	857,560.9506	857,556.3753
Δ =	45°19'17"	34°46'57"	56°18'44"	12°50'45"
D =	14°19'26"	23°52'24"	38°11'50"	11°41'35"
T =	167.00'	75.17'	80.28'	55.16'
L =	316.40'	145.70'	147.43'	109.86'
R =	400.00'	240.00'	150.00'	490.00'
PC STA =	379+89.32'MRE'	385+22.08'MRE'	386+67.78'MRE'	388+15.20'MRE'
Y =	470400.9069	469968.4799	469853.8781	469726.8820
X =	857130.2243	857409.3806	857495.6929	857558.2387
PT STA =	383+05.73'MRE'	386+67.78'MRE'	388+15.20'MRE'	389+25.06'MRE'
Y =	470172.3875	469853.8781	469726.8820	469618.4168
X =	857337.0502	857495.6929	857558.2387	857542.3017
BK =	S64° 48' 28"E	S19° 35' 39"E	S54° 22' 35"E	S1° 56' 09"W
AH =	S19° 29' 12"E	S54° 22' 35"E	S1° 56' 09"W	S14° 46' 54"W

	C39	C40	C44	C45	C46
PI STA =	380+75.47'MP'	386+51.65'MP'	476+36.12'LD'	483+09.90'LD'	485+33.92'LD'
Y =	470,551.5884	470,330.7114	470,869.8590	470,670.2287	470,617.0176
X =	857,293.2976	857,825.5822	856,932.2662	857,576.2250	857,793.9096
Δ =	4°34'26"	60°28'43"	7°45'38"	3°29'15"	49°25'56"
D =	2°17'31"	11°14'04"	2°51'53"	1°26'50"	25°27'53"
T =	99.84'	297.30'	135.65'	120.53'	103.56'
L =	199.57'	538.33'	270.89'	240.98'	194.12'
R =	2,500.00'	510.00'	2,000.00'	3,959.00'	225.00'
PC STA =	379+75.63'MP'	383+54.36'MP'	475+00.47'LD'	481+89.37'LD'	484+30.36'LD'
Y =	470582.3788	470444.6563	470927.1554	470705.9177	470641.6091
X =	857198.3235	857550.9900	856809.3053	857461.1011	857693.3068
PT STA =	381+75.20'MP'	388+92.69'MP'	477+71.36'LD'	484+30.36'LD'	486+24.47'LD'
Y =	470513.3223	470035.6228	470829.6912	470641.6091	470677.4461
X =	857385.5139	857861.7360	857693.3068	857878.0171	
BK =	S72° 02' 15"E	S67° 27' 49"E	S65° 00' 57"E	S72° 46' 35"E	S76° 15' 50"E
AH =	S67° 27' 49"E	S6° 59' 06"E	S72° 46' 35"E	S76° 15' 50"E	N54° 18' 14"E

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 434	E





	C12	C13	C14	C15	C16
PI STA =	44+29.83'E'	45+34.26'E'	342+50.94'ME'	343+33.33'ME'	344+33.90'ME'
Y =	471,674.6650	471,599.3159	471,538.2223	471,513.9647	471,524.9355
X =	853,829.2952	853,902.7140	853,630.0795	853,709.6385	853,810.7313
Δ =	26°34'59"	108°53'16"	19°10'03"	23°09'00"	30°19'34"
D =	63°39'43"	95°29'35"	22°55'06"	28°38'52"	63°39'43"
T =	21.26'	83.94'	42.21'	40.96'	24.39'
L =	41.76'	114.03'	83.63'	80.81'	47.64'
R =	90.00'	60.00'	250.00'	200.00'	90.00'
PC STA =	44+08.56'E'	44+50.32'E'	342+08.73'ME'	342+92.36'ME'	344+09.51'ME'
Y =	471681.6432	471659.4374	471563.1074	471525.9115	471522.3041
X =	853809.2120	853844.1327	853595.9835	853670.4559	853786.4834
PT STA =	44+50.32'E'	45+64.35'E'	342+92.36'ME'	343+73.17'ME'	344+57.14'ME'
Y =	471659.4374	471563.3510	471525.9115	471518.3842	471514.9636
X =	853844.1327	853826.8661	853670.4559	853750.3628	853832.9898
BK =	S70° 50' 22"E	S44° 15' 24"E	S53° 52' 34"E	S73° 02' 37"E	N83° 48' 23"E
AH =	S44° 15' 24"E	S64° 37' 52"W	S73° 02' 37"E	N83° 48' 23"E	S65° 52' 03"E

	C17	C18	C33	C34	C35	C36	C37	C38
PI STA =	346+73.03'ME'	348+19.07'ME'	338+36.70'MP'	341+81.43'MP'	342+86.12'MP'	344+45.86'MP'	346+05.23'MP'	347+71.46'MP'
Y =	471,546.9146	471,545.8911	471,937.0925	471,579.3348	471,517.4847	471,535.4523	471,536.6746	471,572.0769
X =	854,037.5951	854,187.4246	853,259.3445	853,573.7497	853,658.4928	853,824.3558	853,982.0915	854,145.5644
Δ =	28°48'03"	17°34'16"	77°58'34"	12°33'59"	42°18'24"	13°54'56"	29°23'22"	30°10'55"
D =	16°22'13"	14°46'01"	11°14'04"	22°55'06"	28°38'52"	71°37'11"	63°39'43"	14°19'26"
T =	89.87'	59.97'	412.81'	27.53'	77.39'	9.76'	23.60'	107.86'
L =	175.93'	118.99'	694.08'	54.83'	147.68'	19.43'	46.16'	210.71'
R =	350.00'	388.00'	510.00'	250.00'	200.00'	80.00'	90.00'	400.00'
PC STA =	345+83.17'ME'	347+59.10'ME'	334+23.88'MP'	341+53.90'MP'	342+08.73'MP'	344+36.09'MP'	345+81.63'MP'	346+63.60'MP'
Y =	471504.1586	471546.3007	471735.1570	471600.0109	471563.1074	471534.4009	471543.6422	471549.2474
X =	853958.5505	854127.4603	852899.2920	853555.5792	853595.9835	853814.6495	853959.5411	854040.1470
PT STA =	347+59.10'ME'	348+78.09'ME'	341+17.96'MP'	342+08.73'MP'	343+56.41'MP'	344+55.52'MP'	346+27.80'MP'	348+74.31'MP'
Y =	471546.3007	471527.3979	471627.0060	471563.1074	471525.8192	471538.8072	471541.6702	471538.8130
X =	854127.4603	854244.4674	853531.8553	853595.9835	853735.4302	853833.5242	854005.1590	854248.1682
BK =	N61° 35' 26"E	S89° 36' 31"E	N60° 42' 51"E	S41° 18' 35"E	S53° 52' 34"E	N83° 49' 03"E	S72° 49' 48"E	N77° 46' 50"E
AH =	S89° 36' 31"E	S72° 02' 15"E	S41° 18' 35"E	S53° 52' 34"E	N83° 49' 02"E	N69° 54' 06"E	N77° 46' 50"E	S72° 02' 15"E

C71	
CENTER Y =	471,525.454
CENTER X =	853,897.138
BP/EP N =	471,478.572
BP/EP E =	853,900.478
R =	47.00'
BEGIN STA =	10+00.00'MI'
END STA =	12+95.31'MI'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 435 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\027200-AD (ALIGNMENT DETAIL).DWG PLOT DATE : 1/13/2022 4:36 PM PLOT BY : SEH LAYOUT NAME : 04 PLOT SCALE : 1.0 IN = 200.0 FT

2

CURVE D-1
PI STA = 985+36.66'D'
Y = 470551.652
X = 857778.065
DELTA = 9°03'51"
D = 1°25'37"
T = 318.25'
L = 635.17'
R = 4015.00'
PC STA = 982+18.42'D'
Y = 470643.598
X = 857473.389
PT STA = 988+53.58'D'
Y = 470508.853
X = 858093.421
BK = S73°12'26"E
AH = S82°16'17"E

CURVE D-2
PI STA = 994+35.63'D'
Y = 470430.577
X = 858670.186
DELTA = 2°33'48"
D = 1°25'57"
T = 89.49'
L = 178.95'
R = 4000.00'
PC STA = 993+46.14'D'
Y = 470442.612
X = 858581.509
PT STA = 995+25.10'D'
Y = 470422.520
X = 858759.313
BK = S82°16'17"E
AH = S84°50'04"E

CURVE D-3
PI STA = 995+68.09'D'
Y = 470418.649
X = 858802.130
DELTA = 4°55'24"
D = 5°43'46"
T = 42.99'
L = 85.93'
R = 1000.00'
PC STA = 995+25.10'D'
Y = 470422.520
X = 858759.313
PT STA = 996+11.03'D'
Y = 470418.468
X = 858845.121
BK = S84°50'04"E
AH = S89°45'29"E

N

COUNTY AB

540'NB'

182+18.41'WB', -27.06' LT
PC: 982+18.42'D'
Y = 470643.598
X = 857473.389

535'NB'

CURVE D-1

CTH AB

530'NB'

CURVE D-2

CURVE D-3

525'SB'

525'NB'

EP: 995+68.96'D'
Y = 470418.649
X = 858802.130

PT:

PC:

PCC:

995'D'

990'D'

985'D'

485'LD'

RAMP 'D'

'NRR'

RAMP'C'

470'LD'

475'LD'

480'LD'

MAAHIC WAY

170'WB'

175'WB'

180'WB'

185'WB'

190'WB'

195'WB'

200'W

520'SB'

520'NB'

12 18

170'EB'

175'EB'

180'EB'

185'EB'

190'EB'

195'EB'

200'

370'MP'

375'MP'

380'MP'

MILLPOND RD

385'MP'

685'A'

690'A'

695'A'

RAMP 'A'

CURVE A-1

CURVE A-2

CURVE A-3

'SRR'

RAMP 'B'

180+57.06'EB', 26.00' RT
BP: 680+57.06'A'
Y = 470595.314
X = 857288.128

PI: 682+65.16'A'
182+65.16'EB', 26.00' RT

EP: 696+24.17'A'
Y = 469927.108
X = 858696.922

515'SB'

515'NB'

CTH AB

510'SB'

510'NB'

PI STA = 682+65.16'A'
Δ = 004°34'26"
Y = 470531.137
X = 857486.084
BK = S72° 02' 15"E
AH = S67° 27' 49"E

CURVE A-1
PI STA = 687+56.07'A'
Y = 470342.986
X = 857939.503
DELTA = 8°29'15"
D = 2°51'53"
T = 148.41'
L = 296.27'
R = 2000.00'
PC STA = 686+07.66'A'
Y = 470399.866
X = 857802.429
PT STA = 689+03.93'A'
Y = 470266.497
X = 858066.681
BK = S67°27'49"E
AH = S58°58'33"E

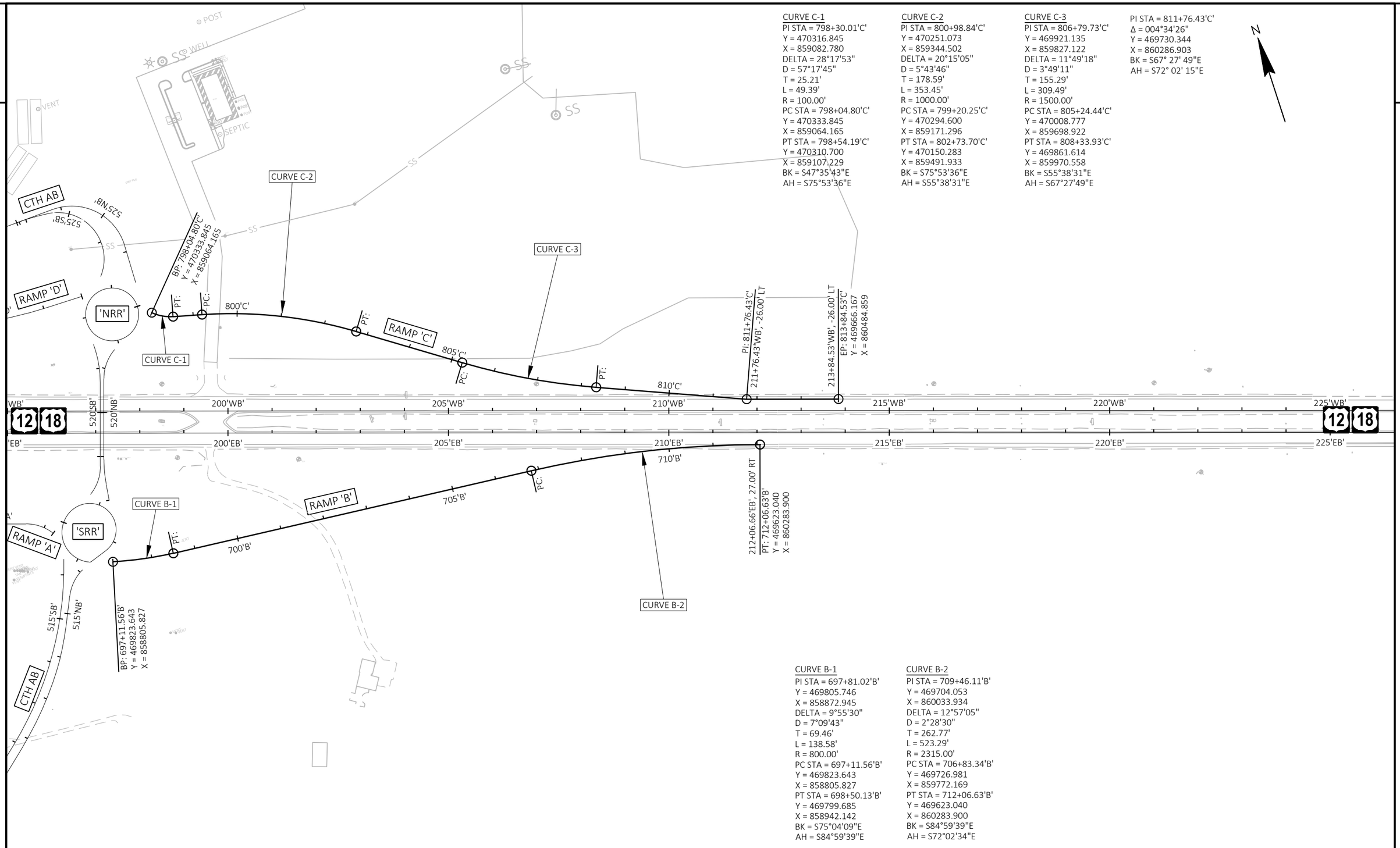
CURVE A-2
PI STA = 693+78.54'A'
Y = 470021.888
X = 858473.392
DELTA = 13°03'03"
D = 5°43'46"
T = 114.39'
L = 227.78'
R = 1000.00'
PC STA = 692+64.15'A'
Y = 470080.842
X = 858375.369
PT STA = 694+91.93'A'
Y = 469986.592
X = 858582.196
BK = S58°58'33"E
AH = S72°01'37"E

CURVE A-3
PI STA = 695+92.29'A'
Y = 469955.625
X = 858677.655
DELTA = 37°58'56"
D = 57°17'45"
T = 34.42'
L = 66.29'
R = 100.00'
PC STA = 695+57.87'A'
Y = 469966.245
X = 858644.919
PT STA = 696+24.17'A'
Y = 469927.108
X = 858696.922
BK = S72°01'37"E
AH = S34°02'41"E

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM RAMP 'A' & RAMP 'D'	SHEET 436	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027201_AD (A-D).DWG
LAYOUT NAME - RAMP 'A' & RAMP 'D'
PLOT DATE : 12/14/2021 10:15 AM
PLOT BY : KRUEGER, KIRK
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

2



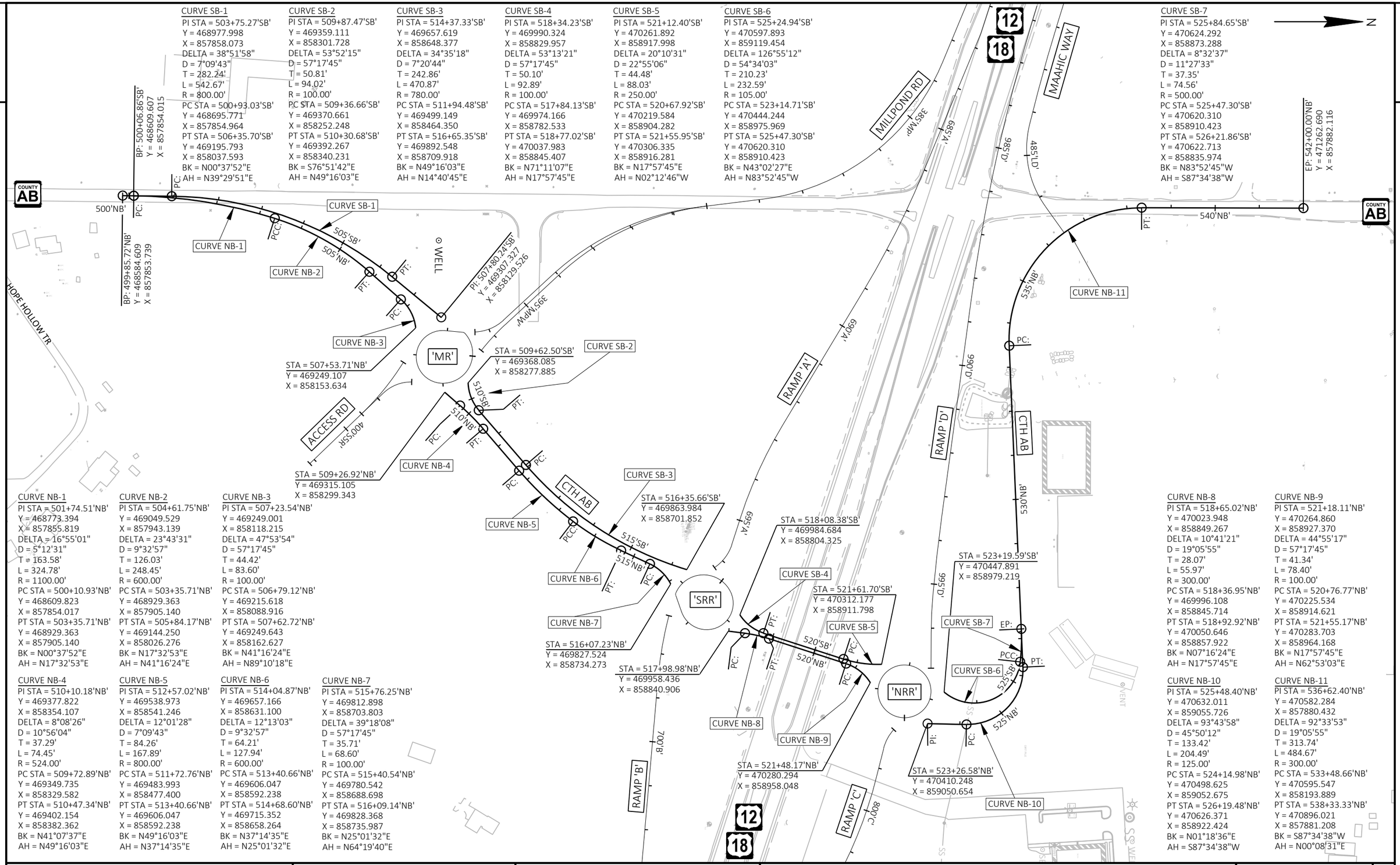
CURVE B-1
PI STA = 697+81.02'B'
Y = 469805.746
X = 858872.945
DELTA = 9°55'30"
D = 7°09'43"
T = 69.46'
L = 138.58'
R = 800.00'
PC STA = 697+11.56'B'
Y = 469823.643
X = 858805.827
PT STA = 698+50.13'B'
Y = 469799.685
X = 858942.142
BK = S75°04'09"E
AH = S84°59'39"E

CURVE B-2
PI STA = 709+46.11'B'
Y = 469704.053
X = 860033.934
DELTA = 12°57'05"
D = 2°28'30"
T = 262.77'
L = 523.29'
R = 2315.00'
PC STA = 706+83.34'B'
Y = 469726.981
X = 859772.169
PT STA = 712+06.63'B'
Y = 469623.040
X = 860283.900
BK = S84°59'39"E
AH = S72°02'34"E

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM - RAMP 'B' & RAMP 'C'	SHEET 437	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027202_AD (B-C).DWG
LAYOUT NAME - RAMP 'B' & RAMP 'C'
PLOT DATE : 12/14/2021 10:15 AM
PLOT BY : KRUEGER, KIRK
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

2

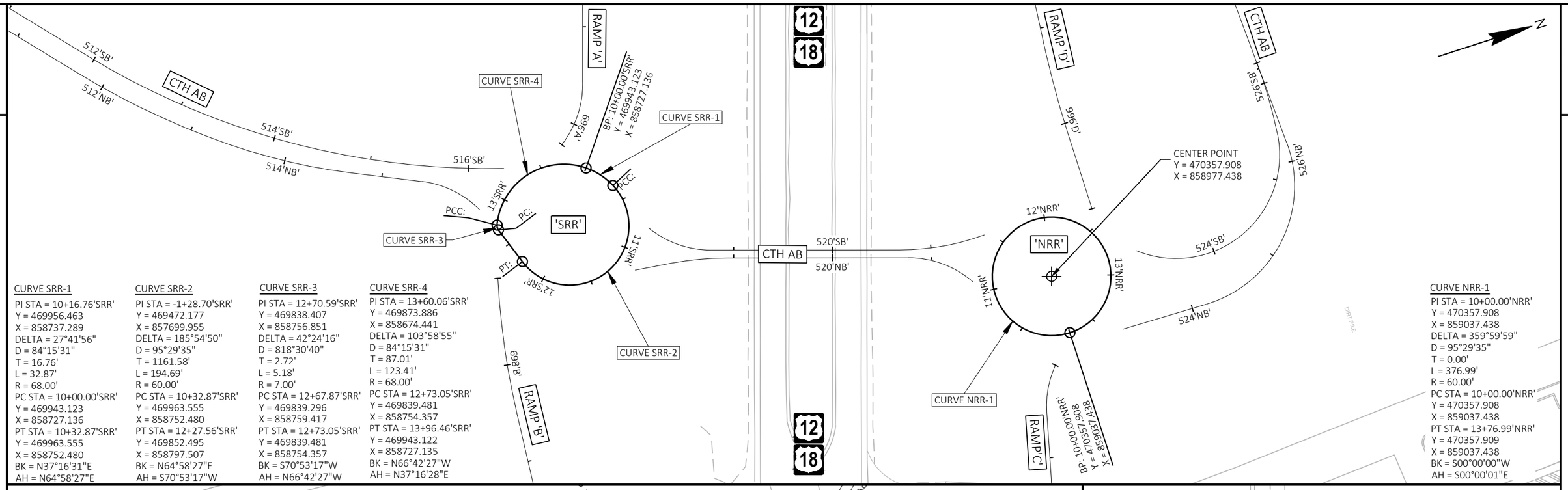


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM - CTH AB	SHEET 438	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027203_AD (AB).DWG
LAYOUT NAME - CTH AB

PLOT DATE : 12/14/2021 10:18 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42



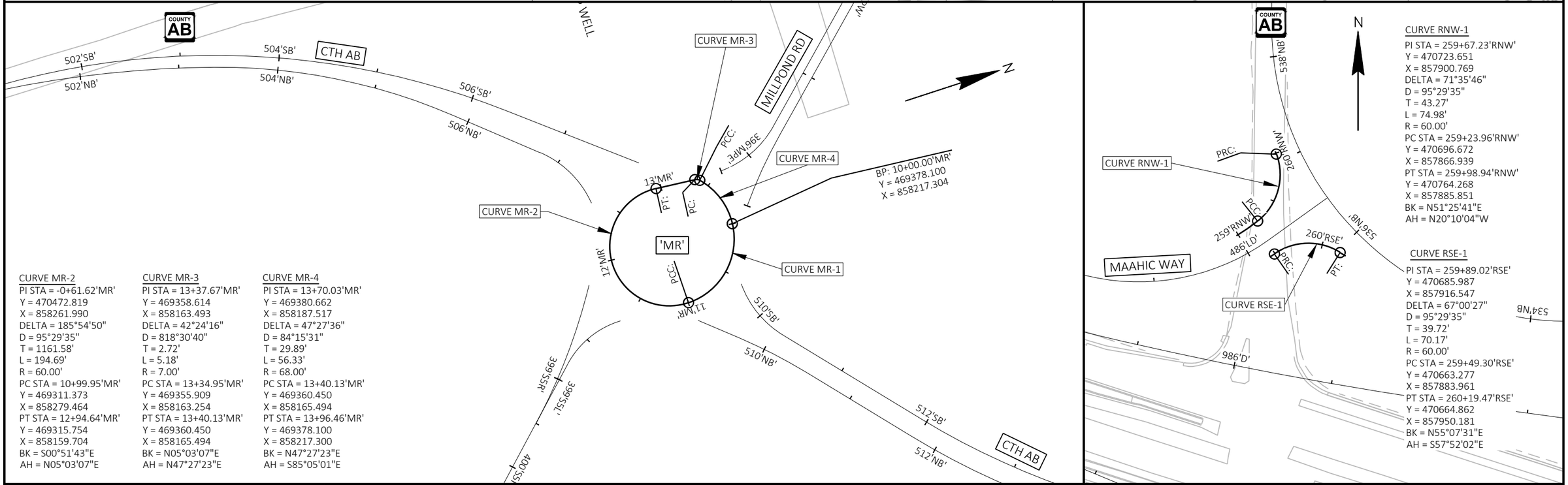
CURVE SRR-1
PI STA = 10+16.76'SRR'
Y = 469956.463
X = 858737.289
DELTA = 27°41'56"
D = 84°15'31"
T = 16.76'
L = 32.87'
R = 68.00'
PC STA = 10+00.00'SRR'
Y = 469943.123
X = 858727.136
PT STA = 10+32.87'SRR'
Y = 469963.555
X = 858752.480
BK = N37°16'31"E
AH = N64°58'27"E

CURVE SRR-2
PI STA = -1+28.70'SRR'
Y = 469472.177
X = 857699.955
DELTA = 185°54'50"
D = 95°29'35"
T = 1161.58'
L = 194.69'
R = 60.00'
PC STA = 10+32.87'SRR'
Y = 469963.555
X = 858752.480
PT STA = 12+27.56'SRR'
Y = 469852.495
X = 858797.507
BK = N64°58'27"E
AH = S70°53'17"W

CURVE SRR-3
PI STA = 12+70.59'SRR'
Y = 469838.407
X = 858756.851
DELTA = 42°24'16"
D = 818°30'40"
T = 2.72'
L = 5.18'
R = 7.00'
PC STA = 12+67.87'SRR'
Y = 469839.296
X = 858759.417
PT STA = 12+73.05'SRR'
Y = 469839.481
X = 858754.357
BK = S70°53'17"W
AH = N66°42'27"W

CURVE SRR-4
PI STA = 13+60.06'SRR'
Y = 469873.886
X = 858674.441
DELTA = 103°58'55"
D = 84°15'31"
T = 87.01'
L = 123.41'
R = 68.00'
PC STA = 12+73.05'SRR'
Y = 469839.481
X = 858754.357
PT STA = 13+96.46'SRR'
Y = 469943.122
X = 858727.135
BK = N66°42'27"W
AH = N37°16'28"E

CURVE NRR-1
PI STA = 10+00.00'NRR'
Y = 470357.908
X = 859037.438
DELTA = 359°59'59"
D = 95°29'35"
T = 0.00'
L = 376.99'
R = 60.00'
PC STA = 10+00.00'NRR'
Y = 470357.908
X = 859037.438
PT STA = 13+76.99'NRR'
Y = 470357.909
X = 859037.438
BK = S00°00'00"W
AH = S00°00'01"E



CURVE MR-2
PI STA = -0+61.62'MR'
Y = 470472.819
X = 858261.990
DELTA = 185°54'50"
D = 95°29'35"
T = 1161.58'
L = 194.69'
R = 60.00'
PC STA = 10+99.95'MR'
Y = 469311.373
X = 858279.464
PT STA = 12+94.64'MR'
Y = 469315.754
X = 858159.704
BK = S00°51'43"E
AH = N05°03'07"E

CURVE MR-3
PI STA = 13+37.67'MR'
Y = 469358.614
X = 858163.493
DELTA = 42°24'16"
D = 818°30'40"
T = 2.72'
L = 5.18'
R = 7.00'
PC STA = 13+34.95'MR'
Y = 469355.909
X = 858163.254
PT STA = 13+40.13'MR'
Y = 469360.450
X = 858165.494
BK = N05°03'07"E
AH = N47°27'23"E

CURVE MR-4
PI STA = 13+70.03'MR'
Y = 469380.662
X = 858187.517
DELTA = 47°27'36"
D = 84°15'31"
T = 29.89'
L = 56.33'
R = 68.00'
PC STA = 13+40.13'MR'
Y = 469360.450
X = 858165.494
PT STA = 13+96.46'MR'
Y = 469378.100
X = 858217.300
BK = N47°27'23"E
AH = S85°05'01"E

CURVE RNW-1
PI STA = 259+67.23'RNW'
Y = 470723.651
X = 857900.769
DELTA = 71°35'46"
D = 95°29'35"
T = 43.27'
L = 74.98'
R = 60.00'
PC STA = 259+23.96'RNW'
Y = 470696.672
X = 857866.939
PT STA = 259+98.94'RNW'
Y = 470764.268
X = 857885.851
BK = N51°25'41"E
AH = N20°10'04"W

CURVE RSE-1
PI STA = 259+89.02'RSE'
Y = 470685.987
X = 857916.547
DELTA = 67°00'27"
D = 95°29'35"
T = 39.72'
L = 70.17'
R = 60.00'
PC STA = 259+49.30'RSE'
Y = 470663.277
X = 857883.961
PT STA = 260+19.47'RSE'
Y = 470664.862
X = 857950.181
BK = N55°07'31"E
AH = S57°52'02"E

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM - CTH AB ROUNDABOUTS	SHEET 439	E

2

18
12

N

R/L 'MP' SEE PROJECT
3080-01-76

MILLPOND RD

CTH AB

CURVE MW-1
PI STA = 392+16.92'MPW'
Y = 469717.007
X = 857900.772
DELTA = 35°49'32"
D = 9°32'57"
T = 193.94'
L = 375.17'
R = 600.00'
PC STA = 390+22.98'MPW'
Y = 469909.510
X = 857877.187
PT STA = 393+98.14'MPW'
Y = 469574.729
X = 858032.572
BK = S06°59'06"E
AH = S42°48'38"E

CURVE MW-2
PI STA = 396+05.53'MPW'
Y = 469422.591
X = 858173.506
DELTA = 9°04'41"
D = 11°27'33"
T = 39.69'
L = 79.22'
R = 500.00'
PC STA = 395+65.83'MPW'
Y = 469451.710
X = 858146.531
PT STA = 396+45.05'MPW'
Y = 469398.092
X = 858204.737
BK = S42°48'38"E
AH = S51°53'19"E

CURVE S5L-1
PI STA = 398+48.78'S5L'
Y = 469203.060
X = 858275.089
DELTA = 44°59'34"
D = 63°39'43"
T = 37.27'
L = 70.67'
R = 90.00'
PC STA = 398+11.50'S5L'
Y = 469240.324
X = 858275.858
PT STA = 398+82.18'S5L'
Y = 469176.163
X = 858300.892
BK = S01°10'55"W
AH = S43°48'38"E

390+19.74'MP', 0.00' =
390+19.74'MPE', 0.00' =
BP: 390+22.98'MPW'
Y = 469909.510
X = 857877.187

PC:
392'MPW'
392'MPE'
CURVE MW-1
PT:
394'MPW'
394'MPE'
PC:
396'MPW'
CURVE MW-2
EP: 396+45.05'MPW'
Y = 469398.092
X = 858204.737
510'S
510'NB'
11'MR'
'MR'
12'MR'
13'MR'
PC:
CURVE ME-2
EP: 396+32.65'MPE'
Y = 469383.744
X = 858162.919
CURVE ME-1

BP: 398+11.50'S5L'
Y = 469240.324
X = 858275.858
CURVE S5L-1
PT:
399+00'S5L'
EP: 399+50.78'S5L', 0.00'
Y = 469126.661
X = 858348.379
400'S5R'
EP: 401+13.59'S5R'
CURVE S5R-1
BP: 398+00.00'S5R'
Y = 469221.278
X = 858231.497

WELL

CTH AB
505'S
505'NB'

CURVE ME-1
PI STA = 392+30.77'MPE'
Y = 469700.049
X = 857902.850
DELTA = 35°49'32"
D = 9°32'57"
T = 193.94'
L = 375.17'
R = 600.00'
PC STA = 390+36.83'MPE'
Y = 469892.552
X = 857879.265
PT STA = 394+11.99'MPE'
Y = 469557.771
X = 858034.649
BK = S06°59'06"E
AH = S42°48'38"E

CURVE ME-2
PI STA = 395+98.72'MPE'
Y = 469420.791
X = 858161.542
DELTA = 40°40'54"
D = 57°17'45"
T = 37.07'
L = 71.00'
R = 100.00'
PC STA = 395+61.65'MPE'
Y = 469447.987
X = 858136.349
PT STA = 396+32.65'MPE'
Y = 469383.744
X = 858162.919
BK = S42°48'38"E
AH = S02°07'44"E

CURVE S5R-1
PI STA = 398+75.79'S5R'
Y = 469181.351
X = 858295.914
DELTA = 14°23'53"
D = 9°32'57"
T = 75.79'
L = 150.77'
R = 600.00'
PC STA = 398+00.00'S5R'
Y = 469221.278
X = 858231.497
PT STA = 399+50.77'S5R'
Y = 469126.661
X = 858348.379
BK = S58°12'31"E
AH = S43°48'38"E

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM - MILLPOND 'ME' & 'MW'	SHEET 440	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027205_AD (MP).DWG
LAYOUT NAME - MILLPOND 'ME' & 'MW'

PLOT DATE : 12/16/2021 9:19 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

LUDS LANE

EP: 537+06.70'LL'
Y = 471533.069
X = 858822.192

537'LL'

PT:

534'LL'

CURVE LL-1

PC:

532'LL'

530'LL'

N0° 51' 14"E

528'LL'

BP: 527+88.66'LL'
Y = 470861.460
X = 859142.037

CURVE LL-1
PI STA = 534+74.30'LL'
Y = 471547.023
X = 859152.255
DELTA = 93°16'29"
D = 28°38'52"
T = 211.77'
L = 325.59'
R = 200.00'
PC STA = 532+62.53'LL'
Y = 471335.277
X = 859149.099
PT STA = 535+88.12'LL'
Y = 471538.078
X = 858940.673
BK = N00°51'14"E
AH = S87°34'45"W

SEPC
SEPC
SEPC
POST
POST
RUINS
WELL
POST
SS
WELL
POST
POST
BLDG

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM - LUDS LANE 'LL'	SHEET 441	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027206_AD (LL).DWG
LAYOUT NAME - LUDS LANE 'LL'

PLOT DATE : 12/14/2021 2:56 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

NOTE:
SEE EXISTING TYPICAL SECTIONS FOR
REFERENCE TO 'XAB' ALIGNMENT.

N

PI: -0+00.04'XAB'
Y = 468432.797
X = 857852.2541

STA 501+10.11'SB', 0.00' =
STA 2+80.03'XAB', 0.00'
Y=468,712.850
X=857,855.334

STA 389+54.17'MP', 0.00' =
STA 15+41.86'XAB', 0.00'
Y=469,974.599
X=857,869.213

PI: 17+72.56'XAB'
Y = 470205.290
X = 857871.7500

PI: 19+72.72'XAB'
Y = 470405.440
X = 857873.6000

PI: 20+89.95'XAB'
Y = 470522.660
X = 857875.1900

PI: 22+69.44'XAB'
Y = 470702.130
X = 857877.6000

STA 539+45.68'NB', 0.00' =
STA 25+75.70'XAB', 0.00'
Y=471,008.370
X=857,881.486

PI: 27+84.39'XAB'
Y = 471217.041
X = 857884.1346

COUNTY AB

0'XAB'
N0° 05' 42"W
500'NB'
5'XAB'
N0° 37' 49"E
10'XAB'
15'XAB'
N0° 31' 46"E
20'XAB'
N0° 46' 10"E
N0° 43' 38"E
25'XAB'
540'NB'
N0° 12' 13"W
30'XAB'

MILLPOND RD
USH 12/18 SERVICE ROAD
12
18
180'EB'
180'WB'
380'MP'
385'MP'
390'MP'
480'LD'
485'LD'

CTH AB
505'SB'
505'NB'
⊙ WELL
HOPE HOLLOW TRAIL

STA 500+31.04'NB', 0.00' =
STA 1+97.11'XAB', 0.00'
Y=468,629.930
X=857,854.422

'MR'
ACCESS RD
400'SR'
510'SB'
510'NB'
CTH AB
515'SB'
515'NB'
'SRR'
RAMP 'A'
RAMP 'B'
690'A'
695'A'
USH 12/18 EB
USH 12/18 WB
190'EB'
190'WB'
195'EB'
195'WB'
RAMP 'D'
990'D'
995'D'
CTH AB
530'NB'
535'NB'
525'SB'
'NRR'

N0° 46' 38"E

STA 486+23.55'LD', 0.00' =
STA 22+44.21'XAB', 0.00'
Y=470,676.905
X=857,877.261

STA 986+32.71'D', 0.00' =
STA 21+11.85'XAB', 0.00'
Y=470,544.560
X=857,875.484

STA 186+49.03'WB', 0.00' =
STA 20+52.34'XAB', 0.00'
Y=470,485.049
X=857,874.680

STA 186+64.50'EB', 0.00' =
STA 20+00.00'XAB', 0.00'
Y=470,432.718
X=857,873.969

STA 686+84.99'A', 0.00' =
STA 19+36.13'XAB', 0.00'
Y=470,368.855
X=857,873.262

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM - EXISTING AB - 'XAB'	SHEET 442	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_027207_AD (XAB).DWG
LAYOUT NAME - EXISTING AB - 'XAB'
PLOT DATE : 12/14/2021 3:13 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:200 FT

		CURVE MSW-1	CURVE MSW-2
PI: STA. 507+09.96'MSW'	PI: STA. 507+09.96'MSW'	PI STA = 507+78.27'MSW'	PI STA = 508+72.83'MSW'
Y = 469263.161	Y = 469263.161	Y = 469318.082	Y = 469397.764
X = 858072.387	X = 858072.387	X = 858113.021	X = 858163.936
Δ = 007°07'30"	Δ = 007°07'30"	DELTA = 3°55'05"	DELTA = 82°30'49"
BK = N43° 37' 16"E	BK = N43° 37' 16"E	D = 28°38'52"	D = 57°17'45"
AH = N36° 29' 46"E	AH = N36° 29' 46"E	T = 6.84'	T = 87.72'
		L = 13.68'	L = 144.01'
		R = 200.00'	R = 100.00'
		PC STA = 507+71.43'MSW'	PC STA = 507+85.11'MSW'
		Y = 469312.583	Y = 469323.847
		X = 858108.952	X = 858116.705
		PT STA = 507+85.11'MSW'	PT STA = 509+29.12'MSW'
		Y = 469323.847	Y = 469454.224
		X = 858116.705	X = 858096.803
		BK = N36°29'46"E	BK = N32°34'41"E
		AH = N32°34'41"E	AH = N49°56'08"W

CURVE MNW-1	CURVE MNW-2
PI STA = 508+89.36'MNW'	PI STA = 509+92.44'MNW'
Y = 469421.102	Y = 469368.185
X = 858198.781	X = 858287.745
DELTA = 14°43'10"	DELTA = 71°28'37"
D = 19°05'55"	D = 63°39'43"
T = 38.75'	T = 64.76'
L = 77.07'	L = 112.28'
R = 300.00'	R = 90.00'
PC STA = 508+50.61'MNW'	PC STA = 509+27.68'MNW'
Y = 469448.722	Y = 469401.293
X = 858171.604	X = 858232.084
PT STA = 509+27.68'MNW'	PT STA = 510+39.96'MNW'
Y = 469401.293	Y = 469410.445
X = 858232.084	X = 858336.821
BK = S44°32'09"E	BK = S59°15'20"E
AH = S59°15'20"E	AH = N49°16'03"E

EP: 509+63.21'MSW'
Y = 469476.163
X = 858070.717

PT:

509'MSW'

MILLPOND RD

BP: 508+10.30'MNW'
Y = 469480.742
X = 858147.114

S37° 24' 39"E

PC:

CURVE MNW-1

509'MNW'

PCC:

CURVE MNW-2

510'MNW'

PT:

511'MNW'

EP: 511+94.48'MNW'
Y = 469511.273
X = 858453.909

BP: 506+44.64'MSW'
Y = 469213.882
X = 858029.708

PI: 506+69.65'MSW'

PI: 507+09.96'MSW'

507'MSW'

PC:

PCC:

508'MSW'

CURVE MSW-2

CURVE MSW-1

CTH AB

PI: 506+14.04'MSE'

506'MSE'

N41° 16' 24"E

PC:

507'MSE'

CURVE MSE-1

BP: 505+89.04'MSE'
Y = 469128.786
X = 858051.289

508'MSE'

PCC:

CURVE MSE-2

CURVE MSE-3

509'MSE'

PCC:

EP: 509+46.80'MSE'
Y = 469115.585
X = 858336.833

CTH AB

510'MNE'

PCC:

509'MNE'

PT:

511'MNE'

EP: 511+27.43'MNE'
Y = 469436.225
X = 858458.708

BP: 28+04.62'SSE'
Y = 469465.807
X = 858493.061

508'MNE'

PC:

BP: 507+41.75'MNE'
Y = 469137.738
X = 858359.925

	CURVE MSE-1	CURVE MSE-2	CURVE MSE-3
PI: STA. 506+14.04'MSE'	PI STA = 507+36.30'MSE'	PI STA = 508+38.38'MSE'	PI STA = 509+15.28'MSE'
Y = 469147.575	Y = 469248.757	Y = 469188.056	Y = 469138.369
X = 858067.780	X = 858136.410	X = 858255.762	X = 858314.976
Δ = 007°07'30"	DELTA = 82°48'33"	DELTA = 13°02'34"	DELTA = 6°11'21"
BK = N41° 16' 24"E	D = 57°17'45"	D = 14°19'26"	D = 9°48'39"
AH = N34° 08' 54"E	T = 88.18'	T = 45.73'	T = 31.57'
	L = 144.53'	L = 91.06'	L = 63.09'
	R = 100.00'	R = 400.00'	R = 584.00'
	PC STA = 506+48.13'MSE'	PC STA = 507+92.66'MSE'	PC STA = 508+83.71'MSE'
	Y = 469175.784	Y = 469208.784	Y = 469158.664
	X = 858086.913	X = 858215.005	X = 858290.789
	PT STA = 507+92.66'MSE'	PT STA = 508+83.71'MSE'	PT STA = 509+46.80'MSE'
	Y = 469208.784	Y = 469158.664	Y = 469115.585
	X = 858215.005	X = 858290.789	X = 858336.833
	BK = N34°08'54"E	BK = S63°02'33"E	BK = S50°00'00"E
	AH = S63°02'33"E	AH = S50°00'00"E	AH = S43°48'38"E

CURVE MNE-1	CURVE MNE-2	CURVE MNE-3
PI STA = 508+62.70'MNE'	PI STA = 509+26.37'MNE'	PI STA = 509+97.35'MNE'
Y = 469225.017	Y = 469294.961	Y = 469351.126
X = 858276.196	X = 858316.364	X = 858359.885
DELTA = 73°40'43"	DELTA = 7°54'12"	DELTA = 11°29'45"
D = 71°37'11"	D = 19°05'55"	D = 11°27'33"
T = 59.93'	T = 20.72'	T = 50.33'
L = 102.87'	L = 41.38'	L = 100.32'
R = 80.00'	R = 300.00'	R = 500.00'
PC STA = 508+02.77'MNE'	PC STA = 509+05.64'MNE'	PC STA = 509+47.02'MNE'
Y = 469181.767	Y = 469276.990	Y = 469311.342
X = 858317.687	X = 858306.043	X = 858329.058
PT STA = 509+05.64'MNE'	PT STA = 509+47.02'MNE'	PT STA = 510+47.34'MNE'
Y = 469276.990	Y = 469311.342	Y = 469383.968
X = 858306.043	X = 858329.058	X = 858398.023
BK = N43°48'38"W	BK = N29°52'05"E	BK = N37°46'17"E
AH = N29°52'05"E	AH = N37°46'17"E	AH = N49°16'03"E

2

CURVE SSW-1	CURVE SSW-2	CURVE SSW-3
PI STA = 40+34.61'SSW'	PI STA = 41+09.77'SSW'	PI STA = 42+19.73'SSW'
Y = 469789.543	Y = 469863.200	Y = 469946.425
X = 858658.581	X = 858675.022	X = 858592.993
DELTA = 13°09'36"	DELTA = 57°10'05"	DELTA = 21°30'49"
D = 19°05'55"	D = 76°23'40"	D = 14°19'26"
T = 34.61'	T = 40.86'	T = 75.99'
L = 68.91'	L = 74.83'	L = 150.19'
R = 300.00'	R = 75.00'	R = 400.00'
PC STA = 40+00.00'SSW'	PC STA = 40+68.91'SSW'	PC STA = 41+43.74'SSW'
Y = 469758.372	Y = 469823.317	Y = 469892.304
X = 858643.551	X = 858666.120	X = 858646.337
PT STA = 40+68.91'SSW'	PT STA = 41+43.74'SSW'	PT STA = 42+93.93'SSW'
Y = 469823.317	Y = 469892.304	Y = 469977.214
X = 858666.120	X = 858646.337	X = 858523.518
BK = N25°44'35"E	BK = N12°34'58"E	BK = N44°35'07"W
AH = N12°34'58"E	AH = N44°35'07"W	AH = N66°05'56"W

CURVE S4R-1
PI STA = 51+68.00'S4R'
Y = 469923.210
X = 858643.558
DELTA = 16°35'35"
D = 13°46'23"
T = 60.66'
L = 120.47'
R = 416.00'
PC STA = 51+07.34'S4R'
Y = 469957.000
X = 858593.179
PT STA = 52+27.81'S4R'
Y = 469876.440
X = 858682.190
BK = S56°08'57"E
AH = S39°33'23"E

CURVE SNW-1	CURVE SNW-2	CURVE SNE-1	CURVE SNE-2
PI STA = 20+43.86'SNW'	PI STA = 21+56.22'SNW'	PI STA = 10+66.09'SNE'	PI STA = 12+03.89'SNE'
Y = 469969.137	Y = 470010.504	Y = 469844.180	Y = 470000.133
X = 858709.467	X = 858820.730	X = 858868.649	X = 858866.776
DELTA = 52°59'08"	DELTA = 51°38'33"	DELTA = 72°35'06"	DELTA = 18°39'03"
D = 65°06'32"	D = 63°39'43"	D = 63°39'43"	D = 20°45'34"
T = 43.86'	T = 43.55'	T = 66.09'	T = 45.32'
L = 81.38'	L = 81.12'	L = 114.02'	L = 89.84'
R = 88.00'	R = 90.00'	R = 90.00'	R = 276.00'
PC STA = 20+00.00'SNW'	PC STA = 21+12.67'SNW'	PC STA = 10+00.00'SNE'	PC STA = 11+58.56'SNE'
Y = 469927.108	Y = 469995.328	Y = 469823.643	Y = 469954.814
X = 858696.922	X = 858779.911	X = 858805.827	X = 858867.320
PT STA = 20+81.38'SNW'	PT STA = 21+93.79'SNW'	PT STA = 11+14.02'SNE'	PT STA = 12+48.41'SNE'
Y = 469984.422	Y = 470051.930	Y = 469910.269	Y = 470043.246
X = 858750.579	X = 858834.160	X = 858867.855	X = 858880.753
BK = N16°37'11"E	BK = N69°36'19"E	BK = N71°53'49"E	BK = N00°41'18"W
AH = N69°36'19"E	AH = N17°57'45"E	AH = N00°41'18"W	AH = N17°57'45"E

CURVE S4L-1		CURVE S4L-2	CURVE S4L-3
PI STA = 60+29.11'S4L'	PI: STA. 61+07.34'S4L'	PI STA = 61+77.34'S4L'	PI STA = 62+25.41'S4L'
Y = 469991.631	Y = 469965.331	Y = 469943.730	Y = 469900.515
X = 858522.189	X = 858595.882	X = 858662.471	X = 858689.189
DELTA = 3°17'08"	Δ = 001°40'03"	DELTA = 40°18'00"	DELTA = 47°56'13"
D = 5°38'42"	BK = S70° 21' 34"E	D = 63°39'43"	D = 143°14'22"
T = 29.11'	AH = S72° 01' 37"E	T = 33.02'	T = 17.78'
L = 58.20'		L = 63.30'	L = 33.47'
R = 1015.00'		R = 90.00'	R = 40.00'
PC STA = 60+00.00'S4L'		PC STA = 61+44.32'S4L'	PC STA = 62+07.62'S4L'
Y = 470002.971		Y = 469953.920	Y = 469915.640
X = 858495.379		X = 858631.058	X = 858679.837
PT STA = 60+58.20'S4L'		PT STA = 62+07.62'S4L'	PT STA = 62+41.09'S4L'
Y = 469981.847		Y = 469915.640	Y = 469883.439
X = 858549.605		X = 858679.837	X = 858684.224
BK = S67°04'26"E		BK = S72°01'37"E	BK = S31°43'36"E
AH = S70°21'34"E		AH = S31°43'36"E	AH = S16°12'36"W

CURVE S3R-1
PI STA = 51+88.73'S3R'
Y = 469763.051
X = 858733.158
DELTA = 21°18'34"
D = 13°46'23"
T = 78.26'
L = 154.72'
R = 416.00'
PC STA = 51+10.47'S3R'
Y = 469699.163
X = 858687.953
PT STA = 52+65.18'S3R'
Y = 469806.144
X = 858798.490
BK = N35°16'54"E
AH = N56°35'28"E

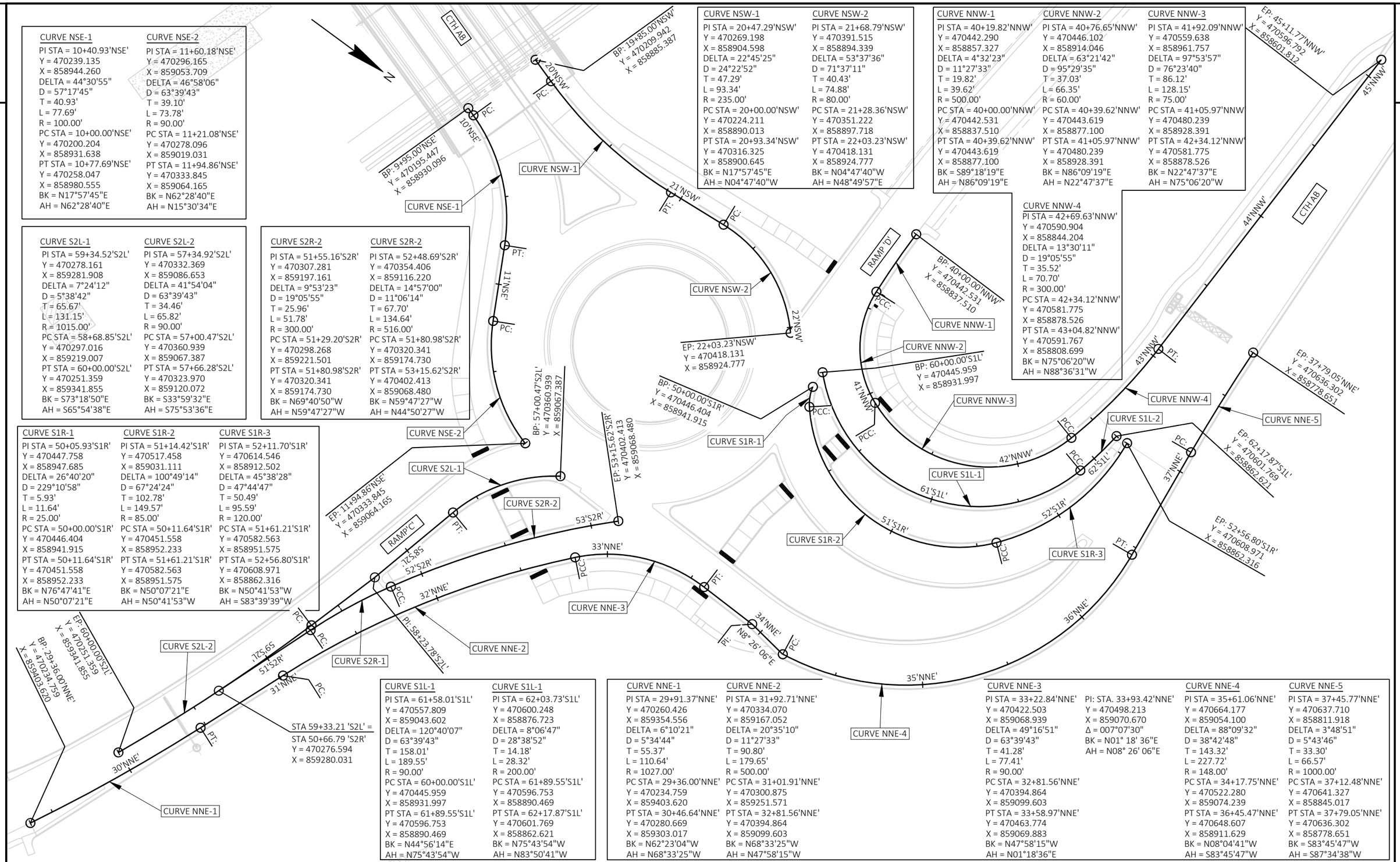
CURVE SSE-1	CURVE SSE-2	CURVE SSE-3
PI STA = 29+53.96'SSE'	PI STA = 31+78.28'SSE'	PI STA = 32+60.64'SSE'
Y = 469563.256	Y = 469743.566	Y = 469793.706
X = 858606.226	X = 858740.840	X = 858807.118
DELTA = 12°31'24"	DELTA = 16°08'51"	DELTA = 34°27'58"
D = 7°09'43"	D = 14°19'26"	D = 67°24'24"
T = 87.78'	T = 56.74'	T = 26.37'
L = 174.86'	L = 112.73'	L = 51.13'
R = 800.00'	R = 400.00'	R = 85.00'
PC STA = 28+66.18'SSE'	PC STA = 31+21.54'SSE'	PC STA = 32+34.27'SSE'
Y = 469505.978	Y = 469698.098	Y = 469777.799
X = 858539.710	X = 858706.895	X = 858786.091
PT STA = 30+41.04'SSE'	PT STA = 32+34.27'SSE'	PT STA = 32+85.40'SSE'
Y = 469633.595	Y = 469777.799	Y = 469794.922
X = 858658.739	X = 858786.091	X = 858833.455
BK = N49°16'03"E	BK = N36°44'39"E	BK = N52°53'30"E
AH = N36°44'39"E	AH = N52°53'30"E	AH = N87°21'27"E

CURVE SSE-4	CURVE SSE-5
PI STA = 33+00.46'SSE'	PI STA = 33+42.06'SSE'
Y = 469795.616	Y = 469789.220
X = 858848.496	X = 858889.710
DELTA = 11°27'51"	DELTA = 3°48'57"
D = 38°11'50"	D = 7°09'43"
T = 15.06'	T = 26.65'
L = 30.01'	L = 53.28'
R = 150.00'	R = 800.00'
PC STA = 32+85.40'SSE'	PC STA = 33+15.41'SSE'
Y = 469794.922	Y = 469793.307
X = 858833.455	X = 858863.375
PT STA = 33+15.41'SSE'	PT STA = 33+68.69'SSE'
Y = 469793.307	Y = 469786.894
X = 858863.375	X = 858916.258
BK = N87°21'27"E	BK = S81°10'42"E
AH = S81°10'42"E	AH = S84°59'39"E

CURVE S3L-1	CURVE S3L-2
PI STA = 60+56.32'S3L'	PI STA = 62+00.85'S3L'
Y = 469655.014	Y = 469786.257
X = 858656.610	X = 858717.843
DELTA = 10°10'56"	DELTA = 39°57'45"
D = 9°08'54"	D = 57°17'45"
T = 55.80'	T = 36.36'
L = 111.30'	L = 69.75'
R = 626.30'	R = 100.00'
PC STA = 60+00.52'S3L'	PC STA = 61+64.49'S3L'
Y = 469609.416	Y = 469753.307
X = 858624.451	X = 858702.470
PT STA = 61+11.83'S3L'	PT STA = 62+34.24'S3L'
Y = 469705.579	Y = 469801.638
X = 858680.202	X = 858750.789
BK = N35°11'38"E	BK = N25°00'43"E
AH = N25°00'43"E	AH = N64°58'27"E

CURVE S3L-3	CURVE S3L-4	CURVE S3L-5
PI STA = 62+39.84'S3L'	PI STA = 62+60.40'S3L'	PI STA = 63+03.28'S3L'
Y = 469804.007	Y = 469812.004	Y = 469801.456
X = 858755.863	X = 858774.806	X = 858817.437
DELTA = 2°08'18"	DELTA = 36°47'03"	DELTA = 3°26'06"
D = 19°05'55"	D = 127°19'26"	D = 7°09'43"
T = 5.60'	T = 14.96'	T = 23.99'
L = 11.20'	L = 28.89'	L = 47.96'
R = 300.00'	R = 45.00'	R = 800.00'
PC STA = 62+34.24'S3L'	PC STA = 62+45.44'S3L'	PC STA = 62+79.29'S3L'
Y = 469801.638	Y = 469806.185	Y = 469807.217
X = 858750.789	X = 858761.021	X = 858794.152
PT STA = 62+45.44'S3L'	PT STA = 62+74.33'S3L'	PT STA = 63+27.26'S3L'
Y = 469806.185	Y = 469808.410	Y = 469797.100
X = 858761.021	X = 858789.330	X = 858841.026
BK = N64°58'27"E	BK = N67°06'46"E	BK = S76°06'12"E
AH = N67°06'46"E	AH = S76°06'12"E	AH = S79°32'18"E

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CTH AB ROUNDABOUT DETAILS	SHEET 444	E



CURVE NSE-1	CURVE NSE-2
PI STA = 10+40.93'NSE'	PI STA = 11+60.18'NSE'
Y = 470239.135	Y = 470296.165
X = 858944.260	X = 859053.709
DELTA = 44°30'55"	DELTA = 46°58'06"
D = 57°17'45"	D = 63°39'43"
T = 40.93'	T = 39.10'
L = 77.69'	L = 73.78'
R = 100.00'	R = 90.00'
PC STA = 10+00.00'NSE'	PC STA = 11+21.08'NSE'
Y = 470200.204	Y = 470278.096
X = 858931.638	X = 859019.031
PT STA = 10+77.69'NSE'	PT STA = 11+94.86'NSE'
Y = 470258.047	Y = 470333.845
X = 858980.555	X = 859064.165
BK = N17°57'45"E	BK = N62°28'40"E
AH = N62°28'40"E	AH = N15°30'34"E

CURVE NSW-1	CURVE NSW-2
PI STA = 20+47.29'NSW'	PI STA = 21+68.79'NSW'
Y = 470269.198	Y = 470391.515
X = 858904.598	X = 858894.339
DELTA = 22°45'25"	DELTA = 53°37'36"
D = 24°22'52"	D = 71°37'11"
T = 47.29'	T = 40.43'
L = 93.34'	L = 74.88'
R = 235.00'	R = 80.00'
PC STA = 20+00.00'NSW'	PC STA = 21+28.36'NSW'
Y = 470224.211	Y = 470351.222
X = 858890.013	X = 858897.718
PT STA = 20+93.34'NSW'	PT STA = 22+03.23'NSW'
Y = 470316.325	Y = 470418.131
X = 858900.645	X = 858924.777
BK = N17°57'45"E	BK = N04°47'40"W
AH = N04°47'40"W	AH = N48°49'57"E

CURVE NNW-1	CURVE NNW-2	CURVE NNW-3
PI STA = 40+19.82'NNW'	PI STA = 40+76.65'NNW'	PI STA = 41+92.09'NNW'
Y = 470442.290	Y = 470446.102	Y = 470559.638
X = 858857.327	X = 858914.046	X = 858961.757
DELTA = 4°32'23"	DELTA = 63°21'42"	DELTA = 97°53'57"
D = 11°27'33"	D = 95°29'35"	D = 76°23'40"
T = 19.82'	T = 37.03'	T = 86.12'
L = 39.62'	L = 66.35'	L = 128.15'
R = 500.00'	R = 60.00'	R = 75.00'
PC STA = 40+00.00'NNW'	PC STA = 40+39.62'NNW'	PC STA = 41+05.97'NNW
Y = 470442.531	Y = 470443.619	Y = 470480.239
X = 858837.510	X = 858877.100	X = 858928.391
PT STA = 40+39.62'NNW'	PT STA = 41+05.97'NNW'	PT STA = 42+34.12'NNW'
Y = 470443.619	Y = 470480.239	Y = 470581.775
X = 858877.100	X = 858928.391	X = 858878.526
BK = S89°18'19"E	BK = N86°09'19"E	BK = N22°47'37"E
AH = N86°09'19"E	AH = N22°47'37"E	AH = N75°06'20"W

CURVE NNW-4
PI STA = 42+69.63'NNW'
Y = 470590.904
X = 858844.204
DELTA = 13°30'11"
D = 19°05'55"
T = 35.52'
L = 70.70'
R = 300.00'
PC STA = 42+34.12'NNW'
Y = 470581.775
X = 858878.526
PT STA = 43+04.82'NNW'
Y = 470591.767
X = 858808.699
BK = N75°06'20"W
AH = N88°36'31"W

CURVE S2L-1	CURVE S2L-2
PI STA = 59+34.52'S2L'	PI STA = 57+34.92'S2L'
Y = 470278.161	Y = 470332.369
X = 859281.908	X = 859086.653
DELTA = 7°24'12"	DELTA = 41°54'04"
D = 5°38'42"	D = 63°39'43"
T = 65.67'	T = 34.46'
L = 131.15'	L = 65.82'
R = 1015.00'	R = 90.00'
PC STA = 58+68.85'S2L'	PC STA = 57+00.47'S2L'
Y = 470297.016	Y = 470360.939
X = 859219.007	X = 859067.387
PT STA = 60+00.00'S2L'	PT STA = 57+66.28'S2L'
Y = 470251.359	Y = 470323.970
X = 859341.855	X = 859120.072
BK = S73°18'50"E	BK = S33°59'32"E
AH = S65°54'38"E	AH = S75°53'36"E

CURVE S2R-2	CURVE S2R-2
PI STA = 51+55.16'S2R'	PI STA = 52+48.69'S2R'
Y = 470307.281	Y = 470354.406
X = 859197.161	X = 859116.220
DELTA = 9°53'23"	DELTA = 14°57'00"
D = 19°05'55"	D = 11°06'14"
T = 25.96'	T = 67.70'
L = 51.78'	L = 134.64'
R = 300.00'	R = 516.00'
PC STA = 51+29.20'S2R'	PC STA = 51+80.98'S2R'
Y = 470298.268	Y = 470320.341
X = 859221.501	X = 859174.730
PT STA = 51+80.98'S2R'	PT STA = 53+15.62'S2R'
Y = 470320.341	Y = 470402.413
X = 859174.730	X = 859068.480
BK = N69°40'50"W	BK = N59°47'27"W
AH = N59°47'27"W	AH = N44°50'27"W

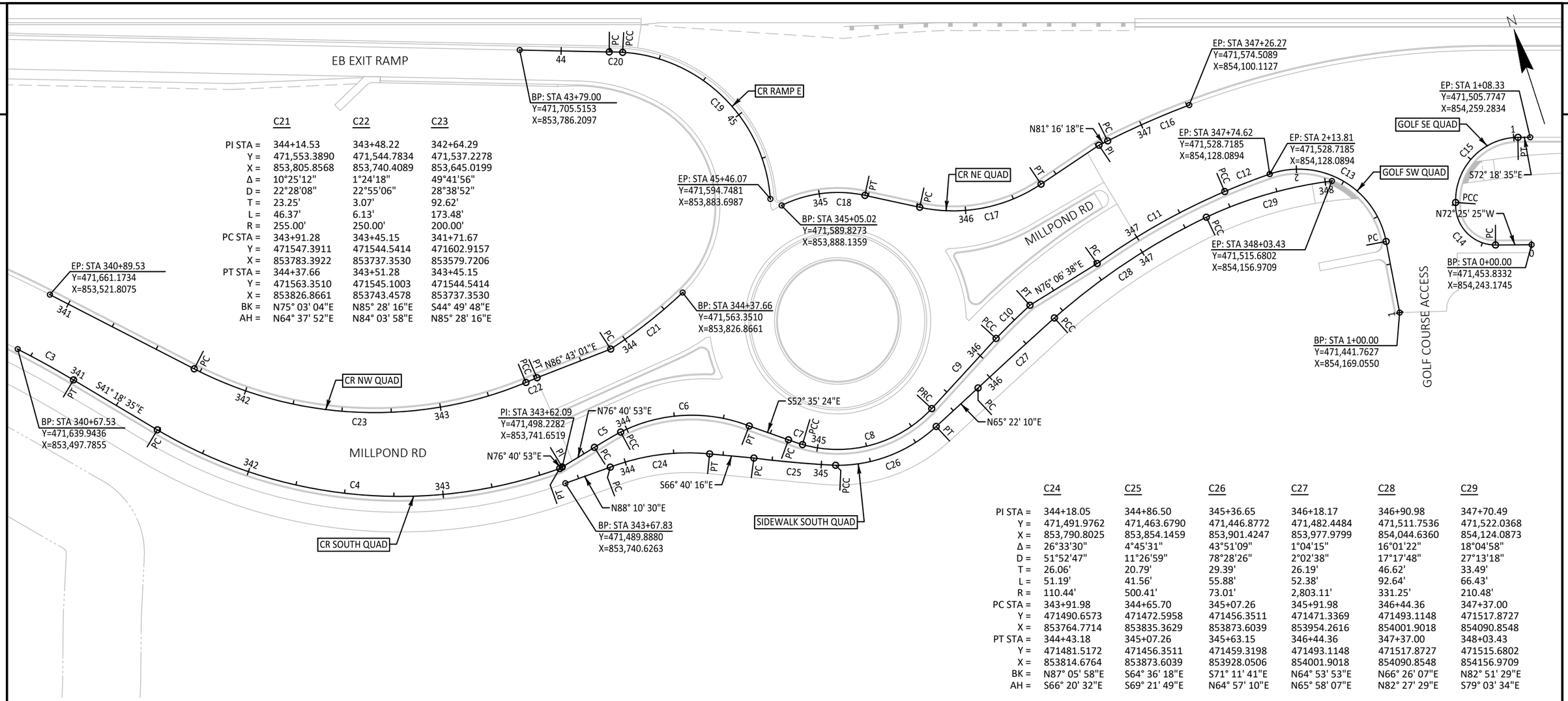
CURVE S1R-1	CURVE S1R-2	CURVE S1R-3
PI STA = 50+05.93'S1R'	PI STA = 51+14.42'S1R'	PI STA = 52+11.70'S1R'
Y = 470447.758	Y = 470517.458	Y = 470614.546
X = 858947.685	X = 859031.111	X = 858912.502
DELTA = 26°40'20"	DELTA = 100°49'14"	DELTA = 45°38'28"
D = 229°10'58"	D = 67°24'24"	D = 47°44'47"
T = 5.93'	T = 102.78'	T = 50.49'
L = 11.64'	L = 149.57'	L = 95.59'
R = 25.00'	R = 85.00'	R = 120.00'
PC STA = 50+00.00'S1R'	PC STA = 50+11.64'S1R'	PC STA = 51+61.21'S1R'
Y = 470446.404	Y = 470451.558	Y = 470582.563
X = 858941.915	X = 858952.233	X = 858951.575
PT STA = 50+11.64'S1R'	PT STA = 51+61.21'S1R'	PT STA = 52+56.80'S1R'
Y = 470451.558	Y = 470582.563	Y = 470608.971
X = 858952.233	X = 858951.575	X = 858862.316
BK = N76°47'41"E	BK = N50°07'21"E	BK = N50°41'53"W
AH = N50°07'21"E	AH = N50°41'53"W	AH = S83°39'39"W

CURVE S1L-1	CURVE S1L-1
PI STA = 61+58.01'S1L'	PI STA = 62+03.73'S1L'
Y = 470557.809	Y = 470600.248
X = 859043.602	X = 858876.723
DELTA = 120°40'07"	DELTA = 8°06'47"
D = 63°39'43"	D = 28°38'52"
T = 158.01'	T = 14.18'
L = 189.55'	L = 28.32'
R = 90.00'	R = 200.00'
PC STA = 60+00.00'S1L'	PC STA = 61+89.55'S1L'
Y = 470445.959	Y = 470596.753
X = 858931.997	X = 858890.469
PT STA = 61+89.55'S1L'	PT STA = 62+17.87'S1L'
Y = 470596.753	Y = 470601.769
X = 858890.469	X = 858862.621
BK = N44°56'14"E	BK = N75°43'54"W
AH = N75°43'54"W	AH = N83°50'41"W

CURVE NNE-1	CURVE NNE-2
PI STA = 29+91.37'NNE'	PI STA = 31+92.71'NNE'
Y = 470260.426	Y = 470334.070
X = 859354.556	X = 859167.052
DELTA = 6°10'21"	DELTA = 20°35'10"
D = 5°34'44"	D = 11°27'33"
T = 55.37'	T = 90.80'
L = 110.64'	L = 179.65'
R = 1027.00'	R = 500.00'
PC STA = 29+36.00'NNE'	PC STA = 31+01.91'NNE'
Y = 470234.759	Y = 470390.875
X = 859403.620	X = 859251.571
PT STA = 30+46.64'NNE'	PT STA = 32+81.56'NNE'
Y = 470280.669	Y = 470394.864
X = 859303.017	X = 859099.603
BK = N62°23'04"W	BK = N68°33'25"W
AH = N68°33'25"W	AH = N47°58'15"W

CURVE NNE-3		CURVE NNE-4	CURVE NNE-5
PI STA = 33+22.84'NNE'	PI: STA. 33+93.42'NNE'	PI STA = 35+61.06'NNE'	PI STA = 37+45.77'NNE'
Y = 470422.503	Y = 470498.213	Y = 470664.177	Y = 470637.710
X = 859068.939	X = 859070.670	X = 859054.100	X = 858811.918
DELTA = 49°16'51"	Δ = 007°07'30"	DELTA = 88°09'32"	DELTA = 3°48'51"
D = 63°39'43"	BK = N01° 18' 36"E	D = 38°42'48"	D = 5°43'46"
T = 41.28'	AH = N08° 26' 06"E	T = 143.32'	T = 33.30'
L = 77.41'		L = 227.72'	L = 66.57'
R = 90.00'		R = 148.00'	R = 1000.00'
PC STA = 32+81.56'NNE'		PC STA = 34+17.75'NNE'	PC STA = 37+12.48'NNE'
Y = 470394.864		Y = 470522.280	Y = 470641.327
X = 859099.603		X = 859074.239	X = 858845.017
PT STA = 33+58.97'NNE'		PT STA = 36+45.47'NNE'	PT STA = 37+79.05'NNE'
Y = 470463.774		Y = 470648.607	Y = 470636.302
X = 859069.883		X = 858911.629	X = 858778.651
BK = N47°58'15"W		BK = N08°04'41"W	BK = S83°45'47"W
AH = N01°18'36"E		AH = S83°45'47"W	AH = S87°34'38"W

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CTH AB ROUNDABOUT DETAILS	SHEET 445	E



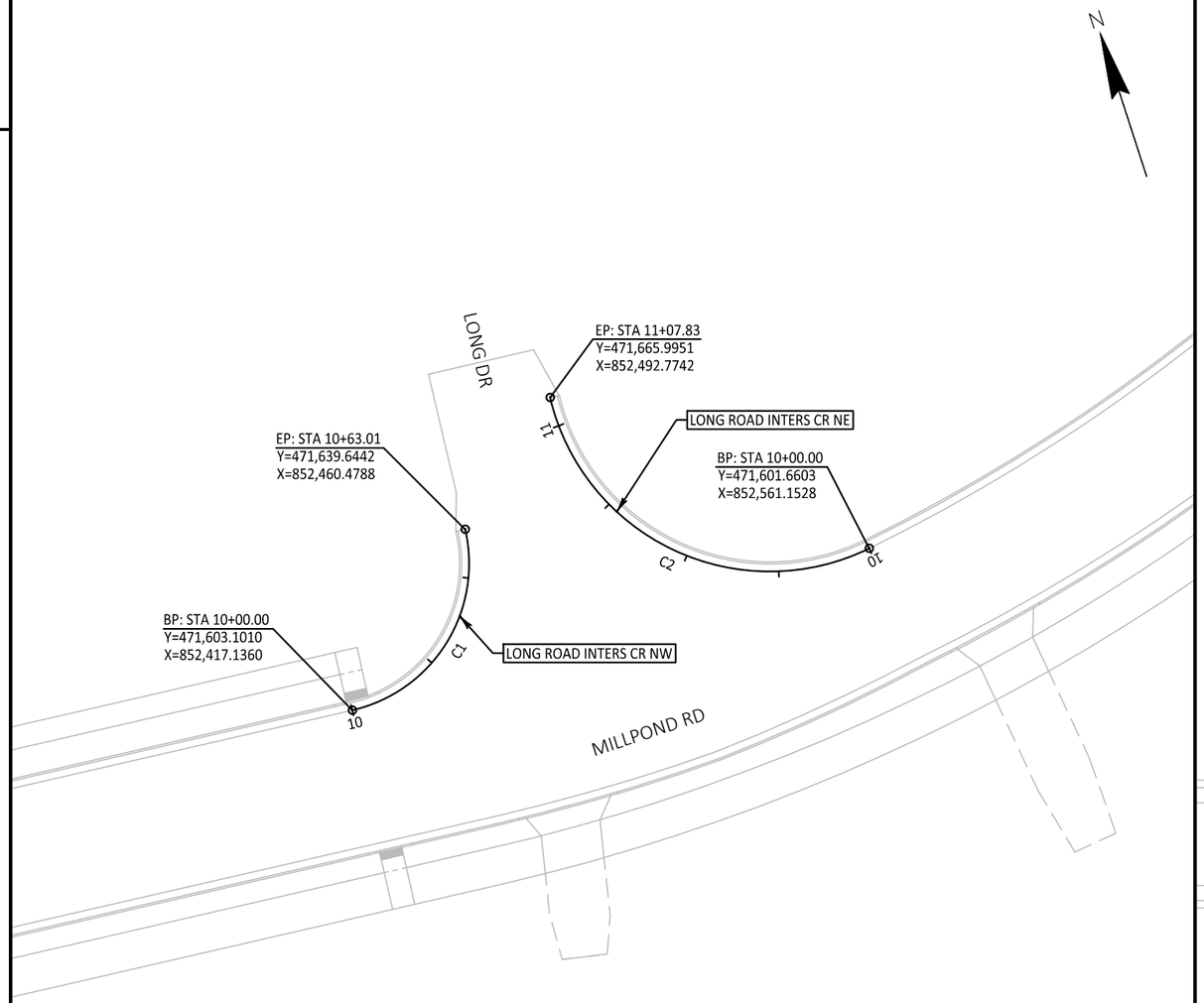
	C21	C22	C23
PI STA =	344+14.53	343+48.22	342+64.29
Y =	471,553.3890	471,544.7834	471,537.2278
X =	853,805.8568	853,740.4089	853,645.0199
Δ =	10°25'12"	1°24'18"	49°41'56"
D =	22°28'08"	22°55'06"	28°38'52"
T =	23.25'	3.07'	92.62'
L =	46.37'	6.13'	173.48'
R =	255.00'	250.00'	200.00'
PC STA =	343+91.28	343+45.15	341+71.67
Y =	471547.3911	471544.5414	471602.9157
X =	853783.3922	853737.3530	853579.7206
PT STA =	344+37.66	343+51.28	343+45.15
Y =	471563.3510	471545.1003	471544.5414
X =	853826.8661	853743.4578	853737.3530
BK =	N75° 03' 04"E	N85° 28' 16"E	S44° 49' 48"E
AH =	N64° 37' 52"E	N84° 03' 58"E	N85° 28' 16"E

	C24	C25	C26	C27	C28	C29
PI STA =	344+18.05	344+86.50	345+36.65	346+18.17	346+90.98	347+70.49
Y =	471,491.9762	471,463.6790	471,446.8772	471,482.4484	471,511.7536	471,522.0368
X =	853,790.8025	853,854.1459	853,901.4247	853,977.9799	854,044.6360	854,124.0873
Δ =	26°33'30"	4°45'31"	43°51'09"	1°04'15"	16°01'22"	18°04'58"
D =	51°52'47"	11°26'59"	78°28'26"	2°02'38"	17°17'48"	27°13'18"
T =	26.06'	20.79'	29.39'	26.19'	46.62'	33.49'
L =	51.19'	41.56'	55.88'	52.38'	92.64'	66.43'
R =	110.44'	500.41'	73.01'	2,803.11'	331.25'	210.48'
PC STA =	343+91.98	344+65.70	345+07.26	345+91.98	346+44.36	347+37.00
Y =	471490.6573	471472.5958	471456.3511	471471.3369	471493.1148	471517.8727
X =	853764.7714	853835.3629	853873.6039	853954.2616	854001.9018	854090.8548
PT STA =	344+43.18	345+07.26	345+63.15	346+44.36	347+37.00	348+03.43
Y =	471481.5172	471456.3511	471459.3198	471493.1148	471517.8727	471515.6802
X =	853814.6764	853873.6039	853928.0506	854001.9018	854090.8548	854156.9709
BK =	N87° 05' 58"E	S64° 36' 18"E	S71° 11' 41"E	N64° 53' 53"E	N66° 26' 07"E	N82° 51' 29"E
AH =	S66° 20' 32"E	S69° 21' 49"E	N64° 57' 10"E	N65° 58' 07"E	N82° 27' 29"E	S79° 03' 34"E

	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20
PI STA =	340+83.65	342+62.28	343+88.85	344+32.21	344+88.49	345+32.03	345+87.74	346+23.86	347+13.19	347+62.41	1+88.63	0+39.88	0+83.88	347+03.74	346+10.62	345+27.48	45+01.06	44+27.74
Y =	471,628.5536	471,494.3698	471,504.5148	471,511.3113	471,473.6346	471,449.3116	471,480.5207	471,498.0559	471,523.9848	471,528.4849	471,529.7112	471,465.9543	471,517.2768	471,573.4388	471,550.3343	471,592.9369	471,662.6356	471,689.5607
X =	853,509.1946	853,627.1175	853,767.6632	853,810.4926	853,857.8076	853,893.9182	853,949.6481	853,981.2267	854,066.5535	854,115.8621	854,180.0456	854,205.1811	854,222.3081	854,077.5579	853,983.7076	853,910.3735	853,900.4706	853,832.2657
Δ =	3°44'18"	50°28'04"	3°46'06"	47°55'25"	3°31'15"	62°56'31"	0°12'04"	3°59'44"	12°30'58"	4°07'12"	98°13'04"	93°59'08"	90°57'23"	6°00'43"	46°00'27"	38°06'52"	82°18'50"	2°43'07"
D =	11°35'54"	23°52'25"	24°27'37"	71°24'10"	46°56'02"	88°08'50"	0°25'02"	16°36'27"	16°51'06"	16°51'06"	127°19'26"	284°00'04"	179°03'42"	13°19'29"	71°37'11"	88°08'50"	71°37'11"	40°00'18"
T =	16.12'	113.11'	7.71'	35.66'	3.75'	39.79'	24.09'	12.03'	37.28'	12.23'	51.97'	21.63'	32.54'	22.58'	33.96'	22.45'	69.93'	3.40'
L =	32.23'	211.40'	15.41'	67.12'	7.50'	71.41'	48.18'	24.06'	74.27'	24.45'	77.14'	33.09'	50.80'	45.12'	64.24'	43.24'	114.93'	6.80'
R =	494.00'	240.00'	234.24'	80.24'	122.08'	65.00'	13,730.90'	345.00'	340.00'	340.00'	45.00'	20.17'	32.00'	430.00'	80.00'	65.00'	80.00'	143.22'
PC STA =	340+67.53	341+49.17	343+81.14	343+96.55	344+84.74	344+92.24	345+63.65	346+11.82	346+75.90	347+50.18	1+36.67	0+18.25	0+51.34	346+81.16	345+76.66	345+05.02	44+31.14	44+24.34
Y =	471639.9436	471579.3313	471502.6179	471505.9168	471475.9566	471471.4979	471468.6307	471492.3372	471512.6303	471527.3734	471478.1466	471459.3446	471486.0394	471570.0122	471567.3953	471589.8273	471688.3365	471690.6331
X =	853497.7855	853552.4522	853760.1945	853775.2405	853854.8604	853860.8917	853928.6997	853970.6382	854031.0404	854103.6832	854173.6017	854225.7755	854213.2062	854055.2392	853954.3396	853888.1359	853835.4362	853829.0408
PT STA =	340+99.76	343+60.57	343+96.55	344+63.67	344+92.24	345+63.65	346+11.82	346+35.88	347+50.18	347+74.62	2+13.81	0+51.34	1+02.14	347+26.27	346+40.90	345+48.26	45+46.07	44+31.14
Y =	471616.4439	471497.8776	471505.9168	471488.7604	471471.4979	471468.6307	471492.3372	471503.0229	471527.3734	471528.7185	471528.7185	471486.0394	471507.6547	471574.5089	471559.6125	471581.6578	471594.7481	471688.3365
X =	853519.8368	853740.1708	853775.2405	853838.1199	853860.8917	853928.6997	853970.6382	853992.1880	854103.6832	854128.0894	854128.0894	854213.2062	854253.3892	854100.1127	854016.3798	853929.7889	853883.6987	853835.4362
BK =	S45° 02' 53"E	S41° 18' 34"E	N75° 44' 57"E	N81° 17' 59"E	S51° 45' 55"E	S56° 06' 28"E	N60° 25' 17"E	N61° 37' 38"E	N72° 16' 10"E	N84° 47' 08"E	N7° 07' 23"E	N72° 12' 22"W	N16° 14' 42"E	N81° 16' 18"E	S59° 50' 46"E	N82° 02' 22"E	S68° 26' 12"E	S71° 36' 21"E
AH =	S41° 18' 35"E	N88° 13' 22"E	N79° 31' 03"E	S50° 46' 36"E	S55° 17' 10"E	N60° 57' 01"E	N60° 37' 21"E	N65° 37' 22"E	N84° 47' 08"E	N88° 54' 20"E	S88° 54' 20"W	N21° 46' 46"E	S72° 47' 55"E	N87° 17' 01"E	N74° 08' 48"E	S59° 50' 46"E	S13° 52' 38"W	S68° 53' 13"E

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 446	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\027201-AD (ALIGNMENT DETAIL RAB CURBS).DWG PLOT DATE : 1/13/2022 4:37 PM PLOT BY : SEH LAYOUT NAME : 01 PLOT SCALE : 1.0 IN = 50.0 FT
WISDOT/CADDS SHEET 42



C1

PI STA =	10+40.18
Y =	471,599.6059
X =	852,457.1616
Δ =	90°15'15"
D =	143°14'22"
T =	40.18'
L =	63.01'
R =	40.00'
PC STA =	10+00.00
Y =	471603.1010
X =	852417.1360
PT STA =	10+63.01
Y =	471639.6466
X =	852460.4790
BK =	S85° 00' 34"E
AH =	N4° 44' 10"E

C2

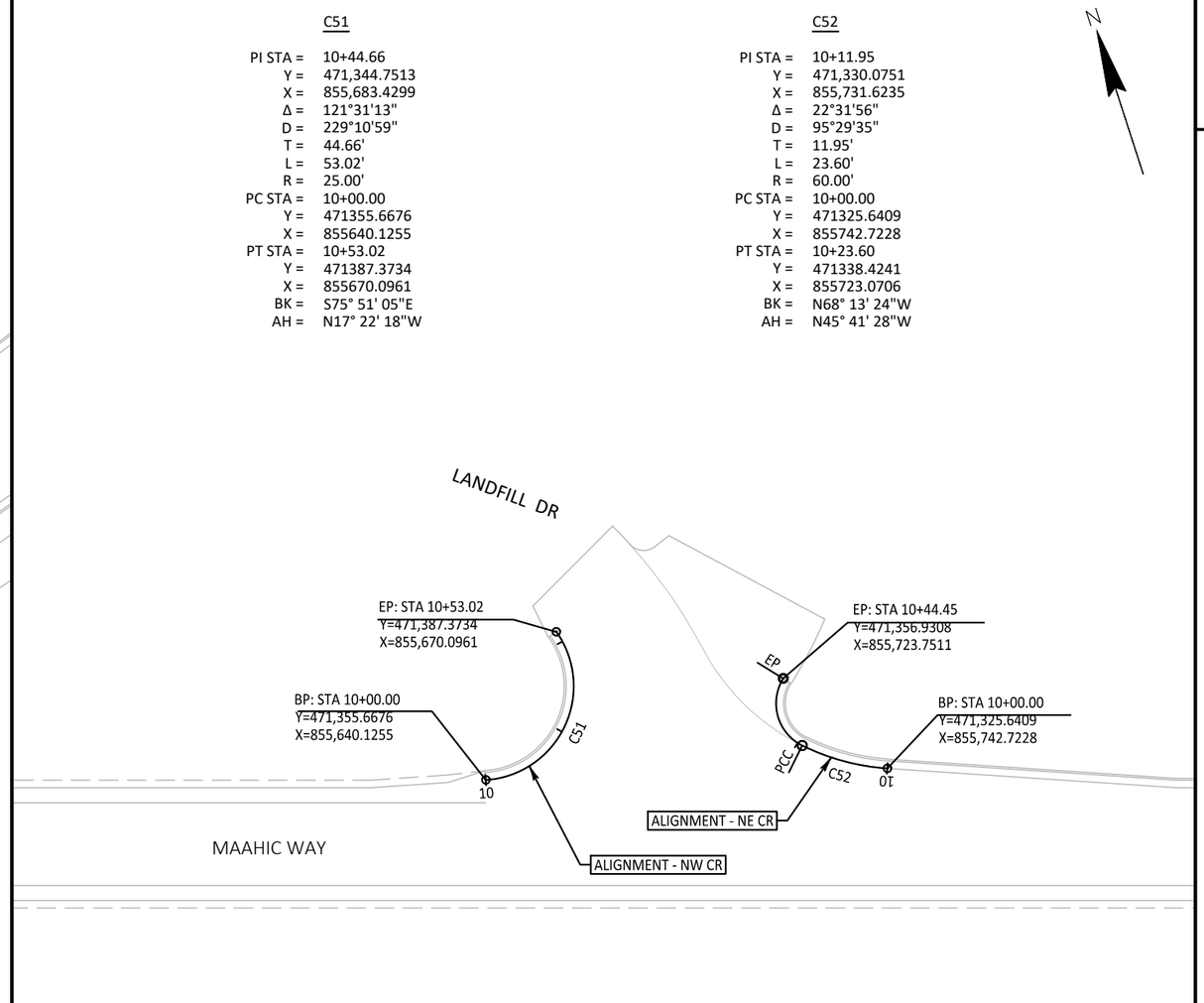
PI STA =	10+75.39
Y =	471,590.8635
X =	852,486.5401
Δ =	102°58'12"
D =	95°29'35"
T =	75.39'
L =	107.83'
R =	60.00'
PC STA =	10+00.00
Y =	471601.6603
X =	852561.1528
PT STA =	11+07.83
Y =	471665.9959
X =	852492.7649
BK =	S81° 45' 58"W
AH =	N4° 44' 10"E

C51

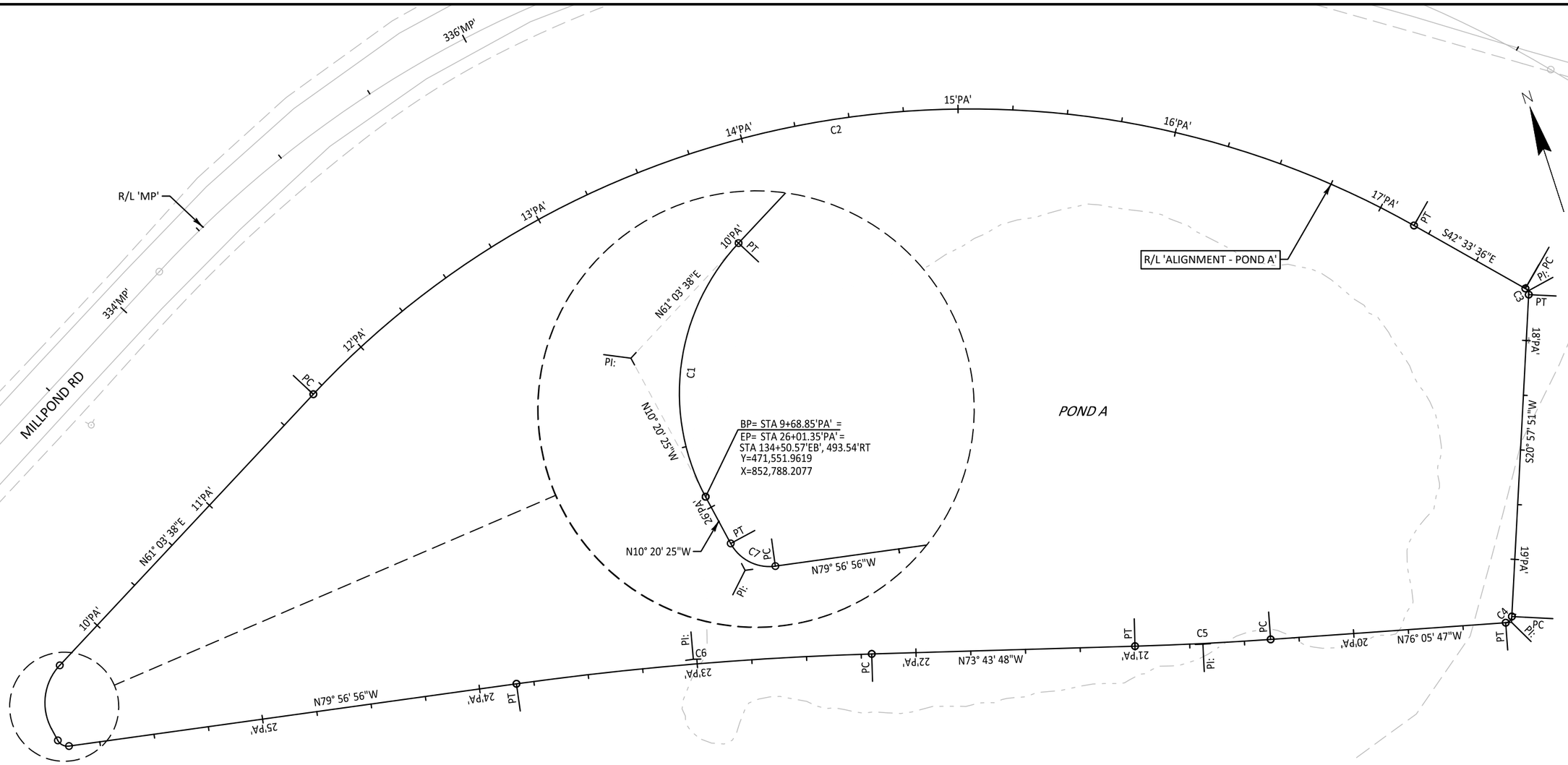
PI STA =	10+44.66
Y =	471,344.7513
X =	855,683.4299
Δ =	121°31'13"
D =	229°10'59"
T =	44.66'
L =	53.02'
R =	25.00'
PC STA =	10+00.00
Y =	471355.6676
X =	855640.1255
PT STA =	10+53.02
Y =	471387.3734
X =	855670.0961
BK =	S75° 51' 05"E
AH =	N17° 22' 18"W

C52

PI STA =	10+11.95
Y =	471,330.0751
X =	855,731.6235
Δ =	22°31'56"
D =	95°29'35"
T =	11.95'
L =	23.60'
R =	60.00'
PC STA =	10+00.00
Y =	471325.6409
X =	855742.7228
PT STA =	10+23.60
Y =	471338.4241
X =	855723.0706
BK =	N68° 13' 24"W
AH =	N45° 41' 28"W

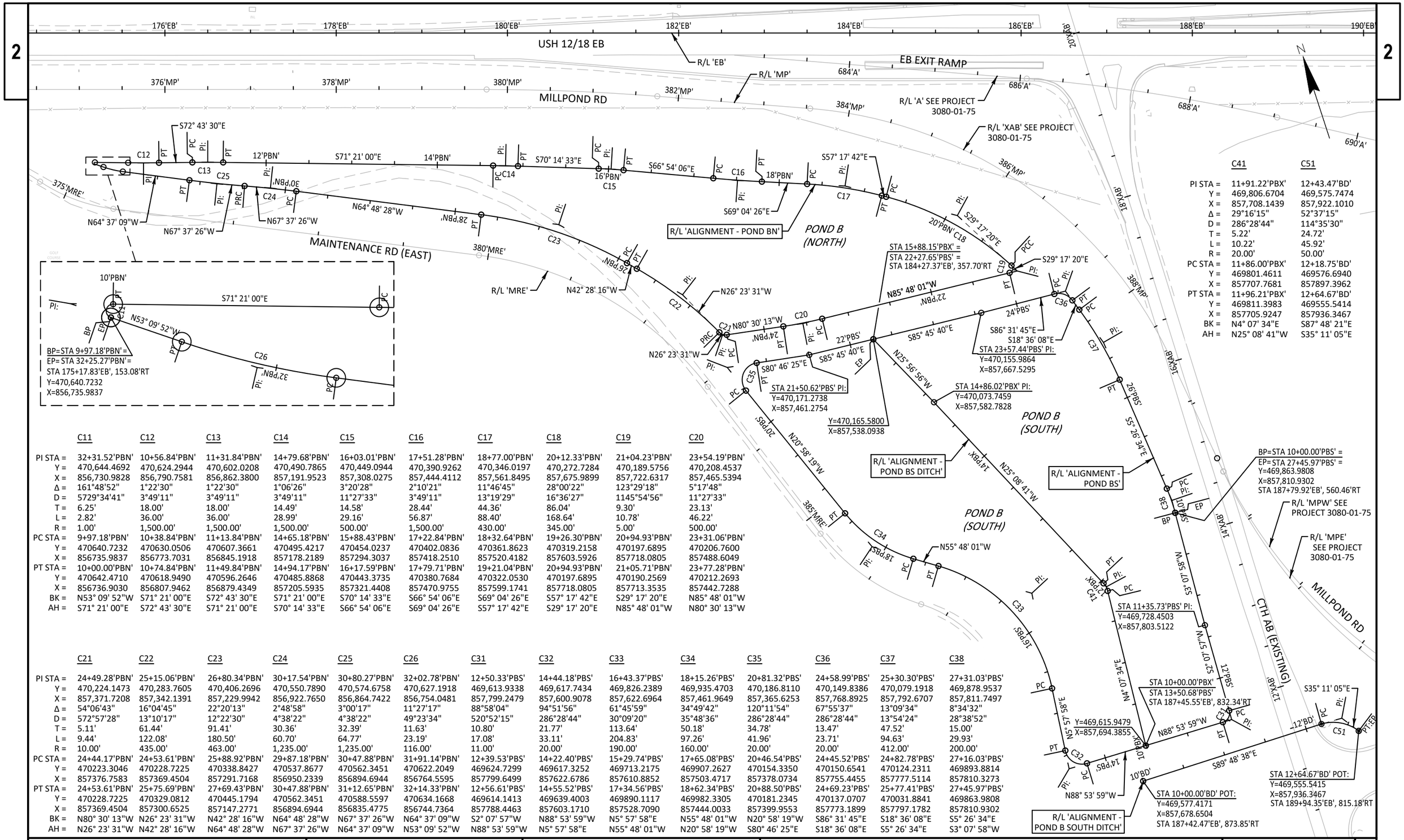


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 447	E



	C1	C2	C3	C4	C5	C6	C7
PI STA =	26+19.31'PA'	14+92.69'PA'	17+77.55'PA'	19+28.74'PA'	20+69.00'PA'	23+01.68'PA'	25+92.70'PA'
Y =	471,569.6348	471,816.7324	471,534.1986	471,392.6549	471,426.5887	471,491.7782	471,542.5978
X =	852,784.9831	853,231.8742	853,491.3140	853,437.0819	853,299.9978	853,076.6330	852,789.9162
Δ =	71°24'04"	76°22'45"	63°31'27"	82°56'22"	2°21'59"	6°13'08"	69°36'31"
D =	229°10'59"	13°56'26"	1909°51'34"	1909°51'34"	3°49'11"	3°49'11"	1145°54'56"
T =	17.96'	323.30'	1.86'	2.65'	30.98'	81.49'	3.48'
L =	31.15'	547.89'	3.33'	4.34'	61.95'	162.81'	6.07'
R =	25.00'	411.00'	3.00'	3.00'	1,500.00'	1,500.00'	5.00'
PC STA =	9+68.85'PA'	11+69.39'PA'	17+75.70'PA'	19+26.09'PA'	20+38.02'PA'	22+20.19'PA'	25+89.23'PA'
Y =	471551.9619	471660.2906	471535.5667	471395.1307	471419.1441	471468.9489	471541.9912
X =	852788.2077	852948.9397	853490.0578	853438.0305	853330.0720	853154.8553	852793.3385
PT STA =	10+00.00'PA'	17+17.28'PA'	17+79.02'PA'	19+30.43'PA'	20+99.98'PA'	23+83.00'PA'	25+95.30'PA'
Y =	471578.3276	471578.5962	471532.4643	471393.2919	471435.2687	471505.9996	471546.0170
X =	852800.7045	853450.5454	853490.6495	853434.5082	853270.2568	852996.3980	852789.2924
BK =	N10° 20' 25"W	N61° 03' 38"E	S42° 33' 36"E	S20° 57' 51"W	N76° 05' 47"W	N73° 43' 48"W	N79° 56' 56"W
AH =	N61° 03' 38"E	S42° 33' 36"E	S20° 57' 51"W	N76° 05' 47"W	N73° 43' 48"W	N79° 56' 56"W	N10° 20' 25"W

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 448	E

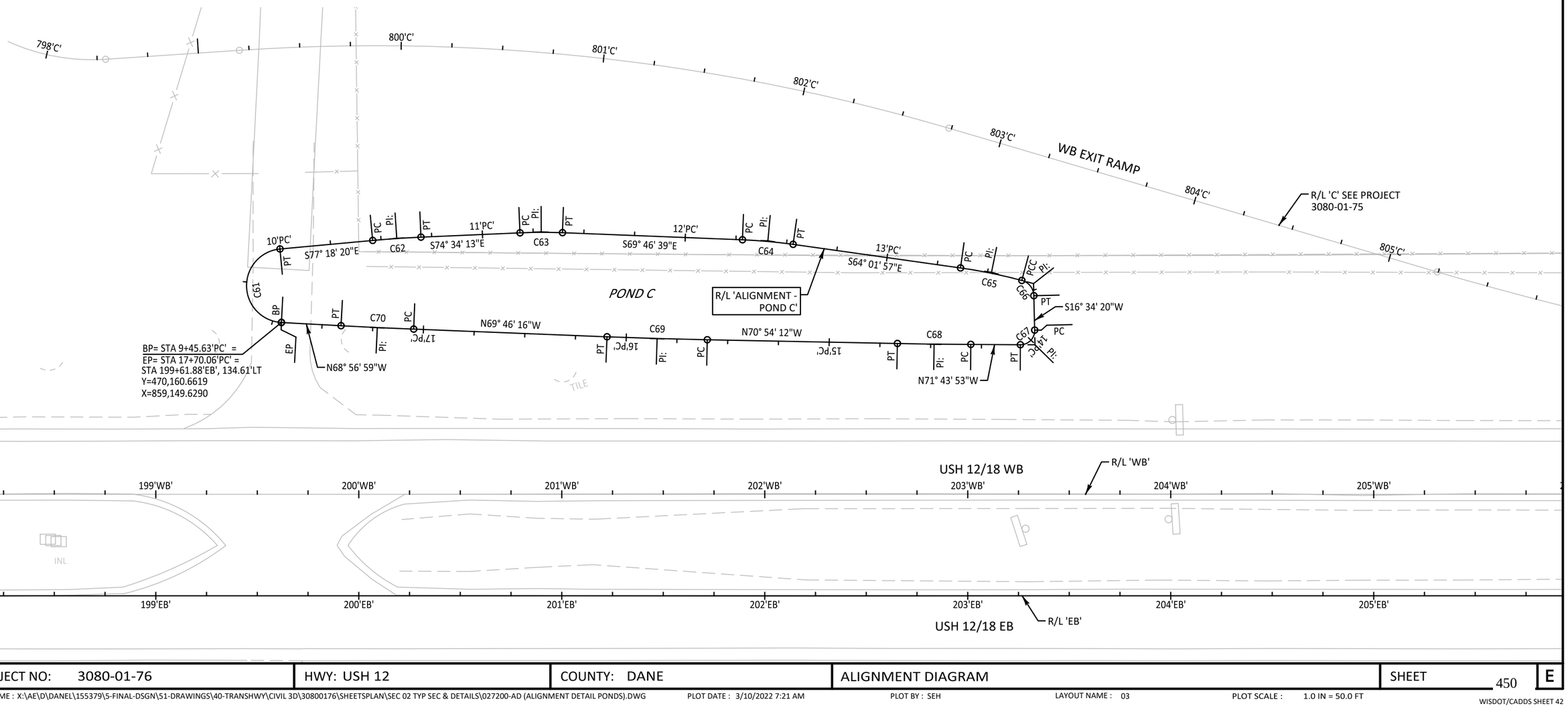


	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20
PI STA =	32+31.52'PBN'	10+56.84'PBN'	11+31.84'PBN'	14+79.68'PBN'	16+03.01'PBN'	17+51.28'PBN'	18+77.00'PBN'	20+12.33'PBN'	21+04.23'PBN'	23+54.19'PBN'
Y =	470,644.4692	470,624.2944	470,602.0208	470,490.7865	470,449.0944	470,390.9262	470,346.0197	470,272.7284	470,189.5756	470,208.4537
X =	856,730.9828	856,790.7581	856,862.3800	857,191.9523	857,308.0275	857,444.4112	857,561.8495	857,675.9899	857,722.6317	857,465.5394
Δ =	161°48'52"	1°22'30"	1°22'30"	1°06'26"	3°20'28"	2°10'21"	11°46'45"	28°00'22"	123°29'18"	5°17'48"
D =	5729°34'41"	3°49'11"	3°49'11"	3°49'11"	11°27'33"	3°49'11"	13°19'29"	16°36'27"	1145°54'56"	11°27'33"
T =	6.25'	18.00'	18.00'	14.49'	14.58'	28.44'	44.36'	86.04'	9.30'	23.13'
L =	2.82'	36.00'	36.00'	28.99'	29.16'	56.87'	88.40'	168.64'	10.78'	46.22'
R =	1.00'	1,500.00'	1,500.00'	1,500.00'	500.00'	1,500.00'	430.00'	345.00'	5.00'	500.00'
PC STA =	9+97.18'PBN'	10+38.84'PBN'	11+13.84'PBN'	14+65.18'PBN'	15+88.43'PBN'	17+22.84'PBN'	18+32.64'PBN'	19+26.30'PBN'	20+94.93'PBN'	23+31.06'PBN'
Y =	470640.7232	470630.0506	470607.3661	470495.4217	470454.0237	470402.0836	470361.8623	470319.2158	470197.6895	470206.7600
X =	856735.9837	856773.7031	856845.1918	857178.2189	857294.3037	857418.2510	857520.4182	857603.5926	857718.0805	857488.6049
PT STA =	10+00.00'PBN'	10+74.84'PBN'	11+49.84'PBN'	14+94.17'PBN'	16+17.59'PBN'	17+79.71'PBN'	19+21.04'PBN'	20+94.93'PBN'	21+05.71'PBN'	23+77.28'PBN'
Y =	470642.4710	470618.9490	470596.2646	470485.8868	470443.3735	470380.7684	470322.0530	470197.6895	470190.2569	470212.2693
X =	856736.9030	856807.9462	856879.4349	857205.5935	857321.4408	857470.9755	857599.1741	857718.0805	857713.3535	857442.7288
BK =	N53° 09' 52"W	S71° 21' 00"E	S72° 43' 30"E	S71° 21' 00"E	S70° 14' 33"E	S66° 54' 06"E	S69° 04' 26"E	S57° 17' 42"E	S29° 17' 20"E	N85° 48' 01"W
AH =	S71° 21' 00"E	S72° 43' 30"E	S71° 21' 00"E	S70° 14' 33"E	S66° 54' 06"E	S69° 04' 26"E	S57° 17' 42"E	S29° 17' 20"E	N85° 48' 01"W	N80° 30' 13"W

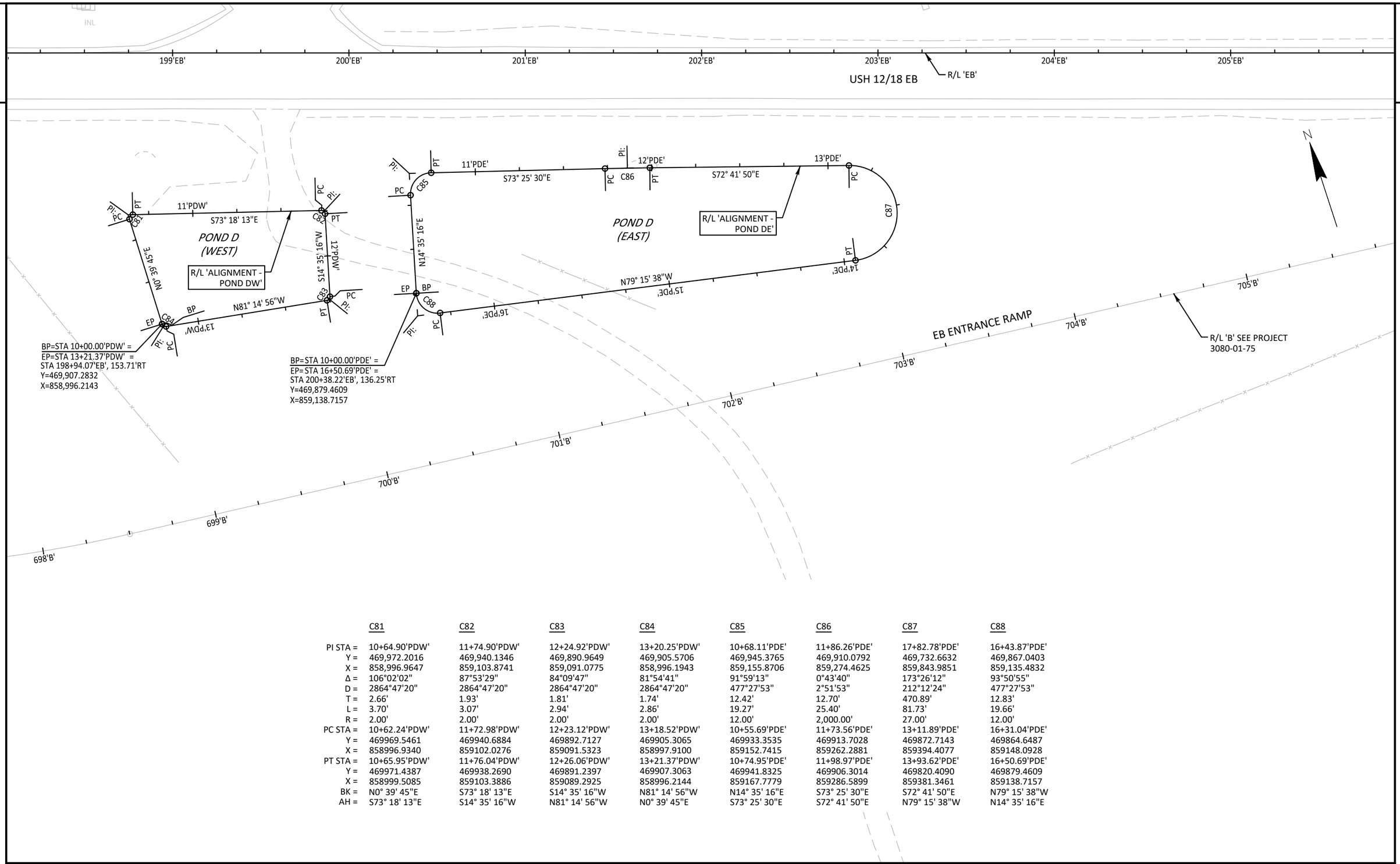
	C21	C22	C23	C24	C25	C26	C31	C32	C33	C34	C35	C36	C37	C38
PI STA =	24+49.28'PBN'	25+15.06'PBN'	26+80.34'PBN'	30+17.54'PBN'	30+80.27'PBN'	32+02.78'PBN'	12+50.33'PBS'	14+44.18'PBS'	16+43.37'PBS'	18+15.26'PBS'	20+81.32'PBS'	24+58.99'PBS'	25+30.30'PBS'	27+31.03'PBS'
Y =	470,224.1473	470,283.7605	470,406.2696	470,550.7890	470,574.6758	470,627.1918	469,613.9338	469,617.7434	469,826.2389	469,935.4703	470,186.8110	470,149.8386	470,079.1918	469,878.9537
X =	857,371.7208	857,342.1391	857,229.9942	856,922.7650	856,864.7422	856,754.0481	857,799.2479	857,600.9078	857,622.6964	857,461.9649	857,365.6253	857,768.8925	857,792.6707	857,811.7497
Δ =	54°06'43"	16°04'45"	22°20'13"	2°48'58"	3°00'17"	11°27'17"	88°58'04"	94°51'56"	61°45'59"	34°49'42"	120°11'54"	67°55'37"	13°09'34"	8°34'32"
D =	572°57'28"	13°10'17"	12°22'30"	4°38'22"	4°38'22"	49°23'34"	520°52'15"	286°28'44"	30°09'20"	35°48'36"	286°28'44"	286°28'44"	13°54'24"	28°38'52"
T =	5.11'	61.44'	91.41'	30.36'	32.39'	11.63'	10.80'	21.77'	113.64'	50.18'	34.78'	13.47'	47.52'	15.00'
L =	9.44'	122.08'	180.50'	60.70'	64.77'	23.19'	17.08'	33.11'	204.83'	97.26'	41.96'	23.71'	94.63'	29.93'
R =	10.00'	435.00'	463.00'	1,235.00'	1,235.00'	116.00'	11.00'	20.00'	190.00'	160.00'	20.00'	20.00'	412.00'	200.00'
PC STA =	24+44.17'PBN'	24+53.61'PBN'	25+88.92'PBN'	29+87.18'PBN'	30+47.88'PBN'	31+91.14'PBN'	12+39.53'PBS'	14+22.40'PBS'	15+29.74'PBS'	17+65.08'PBS'	20+46.54'PBS'	24+45.52'PBS'	24+82.78'PBS'	27+16.03'PBS'
Y =	470223.3046	470228.7225	470338.8427	470537.8677	470562.3451	470622.2049	469624.7299	469617.3252	469713.2175	469907.2627	470154.3350	470150.6541	470124.2311	469893.8814
X =	857376.7583	857369.4504	857291.7168	856950.2339	856894.6944	856764.5595	857799.6499	857622.6786	857610.8852	857503.4717	857378.0734	857755.4455	857777.5114	857810.3273
PT STA =	24+53.61'PBN'	25+75.69'PBN'	27+69.43'PBN'	30+47.88'PBN'	31+12.65'PBN'	32+14.33'PBN'	12+56.61'PBS'	14+55.52'PBS'	17+34.56'PBS'	18+62.34'PBS'	20+88.50'PBS'	24+69.23'PBS'	25+77.41'PBS'	27+45.97'PBS'
Y =	470228.7225	470329.0812	470445.1794	470562.3451	470588.5597	470634.1668	469614.1413	469639.4003	469890.1117	469982.3305	470181.2345	470137.0707	470031.8841	469863.9808
X =	857369.4504	857300.6525	857147.2771	856894.6944	856835.4775	856744.7364	857788.4463	857603.1710	857528.7090	857444.0033	857399.9553	857773.1899	857797.1782	857810.9302
BK =	N80° 30' 13"W	N26° 23' 31"W	N42° 28' 16"W	N64° 48' 28"W	N67° 37' 26"W	N64° 37' 09"W	S2° 07' 57"W	N88° 53' 59"W	N5° 57' 58"E	N55° 48' 01"W	N20° 58' 19"W	S86° 31' 45"E	S18° 36' 08"E	S5° 26' 34"E
AH =	N26° 23' 31"W	N42° 28' 16"W	N64° 48' 28"W	N67° 37' 26"W	N64° 37' 09"W	N53° 09' 52"W	N88° 53' 59"W	N5° 57' 58"E	N55° 48' 01"W	N20° 58' 19"W	S80° 46' 25"E	S18° 36' 08"E	S5° 26' 34"E	S3° 07' 58"W

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 449 E

	C61	C62	C63	C64	C65	C66	C67	C68	C69	C70
PI STA =	11+94.10'PC'	10+57.77'PC'	11+28.98'PC'	12+40.72'PC'	13+51.97'PC'	13+73.36'PC'	14+01.82'PC'	14+48.33'PC'	15+84.81'PC'	17+22.72'PC'
Y =	470,249.9080	470,182.6120	470,163.6641	470,125.0354	470,076.3156	470,064.6348	470,035.7333	470,051.3208	470,095.9713	470,143.6603
X =	858,917.7422	859,216.4950	859,285.1459	859,390.0092	859,490.0435	859,508.0037	859,499.4031	859,452.1838	859,323.2175	859,193.8041
Δ =	171°38'39"	2°44'07"	4°47'34"	5°44'42"	7°04'17"	73°32'00"	91°41'47"	0°49'42"	1°07'56"	0°49'17"
D =	315°40'45"	11°27'33"	22°55'06"	22°55'06"	22°55'06"	716°11'50"	818°30'40"	2°17'31"	2°17'31"	2°17'31"
T =	248.47'	11.94'	10.46'	12.54'	15.45'	5.98'	7.21'	18.07'	24.70'	17.92'
L =	54.37'	23.87'	20.91'	25.07'	30.85'	10.27'	11.20'	36.14'	49.40'	35.83'
R =	18.15'	500.00'	250.00'	250.00'	250.00'	8.00'	7.00'	2,500.00'	2,500.00'	2,500.00'
PC STA =	9+45.63'PC'	10+45.83'PC'	11+18.52'PC'	12+28.18'PC'	13+36.52'PC'	13+67.38'PC'	13+94.61'PC'	14+30.26'PC'	15+60.11'PC'	17+04.81'PC'
Y =	470160.6619	470185.2352	470166.4476	470129.3715	470083.0793	470067.8938	470042.6441	470045.6562	470087.8904	470137.4649
X =	859149.6290	859204.8495	859275.0607	859378.2381	859476.1560	859502.9928	859501.4596	859469.3435	859346.5579	859210.6165
PT STA =	10+00.00'PC'	10+69.70'PC'	11+39.43'PC'	12+53.25'PC'	13+67.38'PC'	13+77.64'PC'	14+05.81'PC'	14+66.40'PC'	16+09.50'PC'	17+40.64'PC'
Y =	470195.3071	470179.4360	470160.0477	470119.5427	470067.8938	470058.9056	470037.9935	470057.2328	470104.5117	470150.0960
X =	859160.1367	859228.0020	859294.9631	859401.2870	859502.9928	859506.2988	859492.5561	859435.1077	859300.0413	859177.0823
BK =	N68° 56' 59"W	S77° 18' 20"E	S74° 34' 13"E	S69° 46' 39"E	S64° 01' 57"E	S56° 57' 40"E	S16° 34' 20"W	N71° 43' 53"W	N70° 54' 12"W	N69° 46' 16"W
AH =	S77° 18' 20"E	S74° 34' 13"E	S69° 46' 39"E	S64° 01' 57"E	S56° 57' 40"E	S16° 34' 20"W	N71° 43' 53"W	N70° 54' 12"W	N69° 46' 16"W	N68° 56' 59"W



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 450	E



	C81	C82	C83	C84	C85	C86	C87	C88
PI STA =	10+64.90'PDW'	11+74.90'PDW'	12+24.92'PDW'	13+20.25'PDW'	10+68.11'PDE'	11+86.26'PDE'	17+82.78'PDE'	16+43.87'PDE'
Y =	469,972.2016	469,940.1346	469,890.9649	469,905.5706	469,945.3765	469,910.0792	469,732.6632	469,867.0403
X =	858,996.9647	859,103.8741	859,091.0775	858,996.1943	859,155.8706	859,274.4625	859,843.9851	859,135.4832
Δ =	106°02'02"	87°53'29"	84°09'47"	81°54'41"	91°59'13"	0°43'40"	173°26'12"	93°50'55"
D =	2864°47'20"	2864°47'20"	2864°47'20"	2864°47'20"	477°27'53"	2°51'53"	212°12'24"	477°27'53"
T =	2.66'	1.93'	1.81'	1.74'	12.42'	12.70'	470.89'	12.83'
L =	3.70'	3.07'	2.94'	2.86'	19.27'	25.40'	81.73'	19.66'
R =	2.00'	2.00'	2.00'	2.00'	12.00'	2,000.00'	27.00'	12.00'
PC STA =	10+62.24'PDW'	11+72.98'PDW'	12+23.12'PDW'	13+18.52'PDW'	10+55.69'PDE'	11+73.56'PDE'	13+11.89'PDE'	16+31.04'PDE'
Y =	469969.5461	469940.6884	469892.7127	469905.3065	469933.3535	469913.7028	469872.7143	469864.6487
X =	858996.9340	859102.0276	859091.5323	858997.9100	859152.7415	859262.2881	859394.4077	859148.0928
PT STA =	10+65.95'PDW'	11+76.04'PDW'	12+26.06'PDW'	13+21.37'PDW'	10+74.95'PDE'	11+98.97'PDE'	13+93.62'PDE'	16+50.69'PDE'
Y =	469971.4387	469938.2690	469891.2397	469907.3063	469941.8325	469906.3014	469820.4090	469879.4609
X =	858999.5085	859103.3886	859089.2925	858996.2144	859167.7779	859286.5899	859381.3461	859138.7157
BK =	N0° 39' 45"E	S73° 18' 13"E	S14° 35' 16"W	N81° 14' 56"W	N14° 35' 16"E	S73° 25' 30"E	S72° 41' 50"E	N79° 15' 38"W
AH =	S73° 18' 13"E	S14° 35' 16"W	N81° 14' 56"W	N0° 39' 45"E	S73° 25' 30"E	S72° 41' 50"E	N79° 15' 38"W	N14° 35' 16"E

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 451	E

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	3080-01-40 Qty	3080-01-75 Qty	3080-01-76 Qty
0002	108.4300	RBC Progress Schedule	EACH	1.000		0.450	0.550
0004	201.0105	Clearing	STA	121.000		10.000	111.000
0006	201.0115	Clearing	ACRE	3.900			3.900
0008	201.0205	Grubbing	STA	121.000		10.000	111.000
0010	201.0215	Grubbing	ACRE	3.900			3.900
0012	203.0100	Removing Small Pipe Culverts	EACH	41.000		4.000	37.000
0014	204.0100	Removing Concrete Pavement	SY	17,845.000			17,845.000
0016	204.0110	Removing Asphaltic Surface	SY	9,939.000			9,939.000
0018	204.0120	Removing Asphaltic Surface Milling	SY	8,547.000			8,547.000
0020	204.0150	Removing Curb & Gutter	LF	1,636.000			1,636.000
0022	204.0155	Removing Concrete Sidewalk	SY	137.000			137.000
0024	204.0170	Removing Fence	LF	15,641.000		212.000	15,429.000
0026	204.0180	Removing Delineators and Markers	EACH	8.000			8.000
0028	204.0195	Removing Concrete Bases	EACH	4.000			4.000
0030	204.0210	Removing Manholes	EACH	6.000			6.000
0032	204.0220	Removing Inlets	EACH	27.000		5.000	22.000
0034	204.0225	Removing Septic Tanks	EACH	2.000			2.000
0036	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	688.000		550.000	138.000
0038	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	137.000			137.000
0040	204.0245	Removing Storm Sewer (size) 03. 18-Inch	LF	915.000			915.000
0042	204.0245	Removing Storm Sewer (size) 04. 24-Inch	LF	513.000			513.000
0044	204.0245	Removing Storm Sewer (size) 05. 36-Inch	LF	243.000			243.000
0046	204.0270	Abandoning Culvert Pipes	EACH	4.000			4.000
0048	204.0280	Sealing Pipes	EACH	1.000			1.000
0050	204.9060.S	Removing (item description) 01. Chain Link Gate	EACH	1.000			1.000
0052	204.9060.S	Removing (item description) 02. Existing Business Sign	EACH	2.000			2.000
0054	204.9060.S	Removing (item description) 03. Existing Lighting Unit	EACH	1.000			1.000
0056	205.0100	Excavation Common	CY	518,099.000	104.000	179,460.000	338,535.000
0058	205.0400	Excavation Marsh	CY	6,210.000			6,210.000
0060	206.1000	Excavation for Structures Bridges (structure) 01. B-13-0893	LS	1.000		1.000	
0062	209.2100	Backfill Granular Grade 2	CY	16,215.000			16,215.000
0064	209.2500	Backfill Granular Grade 2	TON	4,140.000		4,140.000	
0066	210.1500	Backfill Structure Type A	TON	534.000		534.000	
0068	213.0100	Finishing Roadway (project) 01. 3080-01-75	EACH	1.000		1.000	
0070	213.0100	Finishing Roadway (project) 02. 3080-01-76	EACH	1.000			1.000
0072	214.0100	Obliterating Old Road	STA	4.000		4.000	
0074	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,910.000		182.000	3,728.000
0076	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	86,472.000	422.000	25,693.000	60,357.000
0078	305.0130	Base Aggregate Dense 3-Inch	TON	28,179.000			28,179.000
0080	305.0500	Shaping Shoulders	STA	186.000			186.000
0082	310.0110	Base Aggregate Open-Graded	TON	862.000		517.000	345.000
0084	312.0110	Select Crushed Material	TON	69,647.000	570.000	26,060.000	43,017.000
0086	371.2000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	EACH	12.000		12.000	
0088	405.0100	Coloring Concrete WisDOT Red	CY	552.000		446.000	106.000
0090	415.0060	Concrete Pavement 6-Inch	SY	124.000			124.000
0092	415.0090	Concrete Pavement 9-Inch	SY	28,521.000		7,935.000	20,586.000
0094	415.0410	Concrete Pavement Approach Slab	SY	160.000		160.000	
0096	416.0160	Concrete Driveway 6-Inch	SY	62.000			62.000
0098	416.0512	Concrete Truck Apron 12-Inch	SY	1,660.000		1,342.000	318.000

					3080-01-40	3080-01-75	3080-01-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0100	416.0610	Drilled Tie Bars	EACH	934.000	44.000		890.000
0102	416.0620	Drilled Dowel Bars	EACH	1,774.000	180.000		1,594.000
0104	416.1715	Concrete Pavement Repair SHES	SY	602.000			602.000
0106	416.1725	Concrete Pavement Replacement SHES	SY	1,586.000	412.000		1,174.000
0108	450.4000	HMA Cold Weather Paving	TON	2,925.000			2,925.000
0110	455.0605	Tack Coat	GAL	5,792.000		2,160.000	3,632.000
0112	460.2000	Incentive Density HMA Pavement	DOL	14,060.000		3,040.000	11,020.000
0114	460.5223	HMA Pavement 3 LT 58-28 S	TON	360.000			360.000
0116	460.5224	HMA Pavement 4 LT 58-28 S	TON	290.000			290.000
0118	460.6223	HMA Pavement 3 MT 58-28 S	TON	9,982.000		3,235.000	6,747.000
0120	460.6224	HMA Pavement 4 MT 58-28 S	TON	10,968.000		1,165.000	9,803.000
0122	460.6424	HMA Pavement 4 MT 58-28 H	TON	345.000		345.000	
0124	465.0105	Asphaltic Surface	TON	1,638.000		280.000	1,358.000
0126	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	45.000		45.000	
0128	465.0125	Asphaltic Surface Temporary	TON	1,440.000	140.000		1,300.000
0130	465.0305	Asphaltic Surface Safety Islands	TON	8.000			8.000
0132	465.0310	Asphaltic Curb	LF	658.000			658.000
0134	465.0315	Asphaltic Flumes	SY	368.000		123.000	245.000
0136	465.0400	Asphaltic Shoulder Rumble Strips	LF	34,905.000			34,905.000
0138	501.1000.S	Ice Hot Weather Concreting	LB	15,655.000		9,300.000	6,355.000
0140	502.0100	Concrete Masonry Bridges	CY	1,240.000		1,240.000	
0142	502.3200	Protective Surface Treatment	SY	1,701.000		1,701.000	
0144	503.0137	Prestressed Girder Type I 36W-Inch	LF	1,028.000		1,028.000	
0146	505.0400	Bar Steel Reinforcement HS Structures	LB	19,880.000		19,880.000	
0148	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	189,140.000		189,140.000	
0150	505.0800.S	Bar Steel Reinforcement HS Stainless Structures	LB	3,060.000		3,060.000	
0152	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	28.000		28.000	
0154	506.4000	Steel Diaphragms (structure) 01. B-13-0893	EACH	12.000		12.000	
0156	511.1300	Temporary Shoring (location) 01. R-13-0371	SF	1,665.000		1,665.000	
0158	513.4091	Railing Tubular Screening	LF	747.000		747.000	
0160	516.0500	Rubberized Membrane Waterproofing	SY	36.000		36.000	
0162	517.1010.S	Concrete Staining (structure) 01. B-13-0893	SF	10,551.000		10,551.000	
0164	517.1010.S	Concrete Staining (structure) 02. R-13-0370	SF	2,222.000		2,222.000	
0166	517.1010.S	Concrete Staining (structure) 03. R-13-0371	SF	2,207.000		2,207.000	
0168	517.1050.S	Architectural Surface Treatment (structure) 01. B-13-0893	SF	726.000		726.000	
0170	517.1050.S	Architectural Surface Treatment (structure) 02. R-13-0370	SF	1,595.000		1,595.000	
0172	517.1050.S	Architectural Surface Treatment (structure) 03. R-13-0371	SF	1,581.000		1,581.000	
0174	520.2012	Culvert Pipe Temporary 12-Inch	LF	132.000			132.000
0176	520.2018	Culvert Pipe Temporary 18-Inch	LF	62.000			62.000
0178	520.2030	Culvert Pipe Temporary 30-Inch	LF	42.000			42.000
0180	520.8000	Concrete Collars for Pipe	EACH	5.000			5.000
0182	520.8700	Cleaning Culvert Pipes	EACH	4.000			4.000
0184	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	12.000		8.000	4.000
0186	521.1618	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 10 to 1	EACH	2.000			2.000
0188	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	174.000		82.000	92.000
0190	522.0112	Culvert Pipe Reinforced Concrete Class III 12-Inch	LF	24.000			24.000
0192	522.0115	Culvert Pipe Reinforced Concrete Class III 15-Inch	LF	18.000			18.000
0194	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	544.000		174.000	370.000
0196	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	82.000			82.000

					3080-01-40	3080-01-75	3080-01-76
Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
0198	522.0142	Culvert Pipe Reinforced Concrete Class III 42-Inch	LF	138.000		138.000	
0200	522.0148	Culvert Pipe Reinforced Concrete Class III 48-Inch	LF	484.000			484.000
0202	522.0412	Culvert Pipe Reinforced Concrete Class IV 12-Inch	LF	22.000			22.000
0204	522.0415	Culvert Pipe Reinforced Concrete Class IV 15-Inch	LF	32.000			32.000
0206	522.0418	Culvert Pipe Reinforced Concrete Class IV 18-Inch	LF	214.000			214.000
0208	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	266.000			266.000
0210	522.0524	Culvert Pipe Reinforced Concrete Class V 24-Inch	LF	336.000		336.000	
0212	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	9.000		1.000	8.000
0214	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	4.000			4.000
0216	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	31.000		9.000	22.000
0218	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	22.000		9.000	13.000
0220	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	8.000		2.000	6.000
0222	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	5.000			5.000
0224	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	5.000		2.000	3.000
0226	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	7.000			7.000
0228	522.2329	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	LF	310.000			310.000
0230	522.2334	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 34x53-Inch	LF	122.000		122.000	
0232	522.2629	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	2.000			2.000
0234	522.2634	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	EACH	2.000		2.000	
0236	524.0615	Apron Endwalls for Culvert Pipe Salvaged 15-Inch	EACH	2.000			2.000
0238	530.0118	Culvert Pipe Corrugated Polyethylene 18-Inch	LF	52.000		52.000	
0240	531.1100	Concrete Masonry Ancillary Structures Type NS	CY	34.800			34.800
0242	531.1140	Steel Reinforcement HS Ancillary Structures Type NS	LB	4,298.000			4,298.000
0244	531.1160	Steel Reinforcement HS Coated Ancillary Structures Type NS	LB	1,100.000			1,100.000
0246	531.2024	Drilling Shaft 24-Inch	LF	149.000			149.000
0248	531.2036	Drilling Shaft 36-Inch	LF	177.000		72.000	105.000
0250	531.2042	Drilling Shaft 42-Inch	LF	36.000		36.000	
0252	531.2048	Drilling Shaft 48-Inch	LF	56.000			56.000
0254	531.4050	Foundation Camera Pole 50-FT	EACH	1.000			1.000
0256	531.5130	Foundation Single-Shaft Type MC-III (structure) 01. S-13-0559	EACH	1.000		1.000	
0258	531.5130	Foundation Single-Shaft Type MC-III (structure) 02. S-13-0560	EACH	1.000		1.000	
0260	531.5340	Foundation Single-Shaft Type TC-IV (structure) 01. S-13-0562	EACH	1.000			1.000
0262	531.5340	Foundation Single-Shaft Type TC-IV (structure) 02. S-13-0564	EACH	1.000			1.000
0264	531.5340	Foundation Single-Shaft Type TC-IV (structure) 03. S-13-0570	EACH	1.000			1.000
0266	531.5420	Foundation Single-Shaft Type TF-II (structure) 01. S-13-0561	EACH	2.000		2.000	
0268	531.6010	Foundation Two-Shaft Type FC-I (structure) 01. S-13-0569	EACH	1.000			1.000
0270	531.6020	Foundation Two-Shaft Type FC-II (structure) 01. S-13-0565	EACH	1.000		1.000	
0272	531.8990	Anchor Assemblies Poles on Structures	EACH	2.000		2.000	
0274	532.5130	Monotube Cantilever Type III (structure) 01. S-13-0559	EACH	1.000		1.000	
0276	532.5130	Monotube Cantilever Type III (structure) 02. S-13-0560	EACH	1.000		1.000	
0278	532.5340	Truss Cantilever 2-Chord Type IV (structure) 01. S-13-0562	EACH	1.000			1.000
0280	532.5340	Truss Cantilever 2-Chord Type IV (structure) 02. S-13-0564	EACH	1.000			1.000
0282	532.5340	Truss Cantilever 2-Chord Type IV (structure) 03. S-13-0570	EACH	1.000			1.000
0284	532.5400	Truss Full Span 2-Chord Type NS (structure) 01. S-13-0563	EACH	1.000		1.000	
0286	532.5420	Truss Full Span 2-Chord Type II (structure) 01. S-13-0561	EACH	1.000		1.000	
0288	532.6010	Truss Cantilever 4-Chord Type I (structure) 01. S-13-0569	EACH	1.000			1.000
0290	532.6010	Truss Cantilever 4-Chord Type I (structure) 02. S-13-0571	EACH	1.000			1.000
0292	532.6020	Truss Cantilever 4-Chord Type II (structure) 01. S-13-0565	EACH	1.000		1.000	
0294	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	5,292.000		5,292.000	

Line	Item	Item Description	Unit	Total	3080-01-40 Qty	3080-01-75 Qty	3080-01-76 Qty
0296	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	866.000		866.000	
0298	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	7,079.000		4,935.000	2,144.000
0300	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	21,563.000		6,713.000	14,850.000
0302	601.0551	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	LF	557.000			557.000
0304	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	895.000		552.000	343.000
0306	601.0580	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	LF	1,417.000		1,134.000	283.000
0308	601.0600	Concrete Curb Pedestrian	LF	392.000		392.000	
0310	602.0405	Concrete Sidewalk 4-Inch	SF	38,771.000		37,215.000	1,556.000
0312	602.0410	Concrete Sidewalk 5-Inch	SF	22,533.000		17,705.000	4,828.000
0314	602.0415	Concrete Sidewalk 6-Inch	SF	2,855.000			2,855.000
0316	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	636.000		592.000	44.000
0318	602.0615	Curb Ramp Detectable Warning Field Radial Natural Patina	SF	58.000			58.000
0320	603.1142	Concrete Barrier Type S42	LF	5,864.000			5,864.000
0322	603.8000	Concrete Barrier Temporary Precast Delivered	LF	5,225.000			5,225.000
0324	603.8125	Concrete Barrier Temporary Precast Installed	LF	5,350.000			5,350.000
0326	604.0400	Slope Paving Concrete	SY	49.000		49.000	
0328	606.0200	Riprap Medium	CY	997.000		270.000	727.000
0330	606.0300	Riprap Heavy	CY	166.000		30.000	136.000
0332	608.0115	Relaid Storm Sewer 15-Inch	LF	104.000			104.000
0334	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	1,919.000		1,229.000	690.000
0336	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	1,210.000		601.000	609.000
0338	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	1,018.000		554.000	464.000
0340	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	124.000		124.000	
0342	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	506.000			506.000
0344	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	1,935.000			1,935.000
0346	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	743.000			743.000
0348	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	602.000			602.000
0350	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	243.000			243.000
0352	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	239.000			239.000
0354	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	227.000			227.000
0356	608.0448	Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	LF	767.000			767.000
0358	611.0535	Manhole Covers Type J-Special	EACH	28.000	26.000		2.000
0360	611.0610	Inlet Covers Type BW	EACH	18.000			18.000
0362	611.0624	Inlet Covers Type H	EACH	89.000		57.000	32.000
0364	611.0627	Inlet Covers Type HM	EACH	3.000		2.000	1.000
0366	611.0636	Inlet Covers Type HM-S	EACH	3.000			3.000
0368	611.0639	Inlet Covers Type H-S	EACH	45.000		2.000	43.000
0370	611.0642	Inlet Covers Type MS	EACH	16.000			16.000
0372	611.0652	Inlet Covers Type T	EACH	11.000		9.000	2.000
0374	611.2005	Manholes 5-FT Diameter	EACH	7.000		7.000	
0376	611.3004	Inlets 4-FT Diameter	EACH	14.000		10.000	4.000
0378	611.3225	Inlets 2x2.5-FT	EACH	15.000			15.000
0380	611.3230	Inlets 2x3-FT	EACH	57.000		53.000	4.000
0382	611.3901	Inlets Median 1 Grate	EACH	2.000			2.000
0384	611.3902	Inlets Median 2 Grate	EACH	7.000			7.000
0386	611.8120.S	Cover Plates Temporary	EACH	8.000	4.000		4.000
0388	611.9800.S	Pipe Grates	EACH	18.000		1.000	17.000
0390	612.0106	Pipe Underdrain 6-Inch	LF	12,224.000		7,369.000	4,855.000
0392	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	17.000			17.000

Line	Item	Item Description	Unit	Total	3080-01-40 Qty	3080-01-75 Qty	3080-01-76 Qty
0394	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	390.000		390.000	
0396	614.0220	Steel Thrie Beam Bullnose Terminal	EACH	2.000			2.000
0398	614.0230	Steel Thrie Beam	LF	226.600			226.600
0400	614.0905	Crash Cushions Temporary	EACH	5.000			5.000
0402	614.2300	MGS Guardrail 3	LF	283.000			283.000
0404	614.2500	MGS Thrie Beam Transition	LF	236.000			236.000
0406	614.2610	MGS Guardrail Terminal EAT	EACH	6.000			6.000
0408	616.0100	Fence Woven Wire (height) 01. 4-FT	LF	10,780.000			10,780.000
0410	616.0350.S	Gates Wood Single Leaf (length) 01. 16-FT	EACH	1.000			1.000
0412	616.0406	Fence Chain Link Salvaged 6-FT	LF	880.000			880.000
0414	616.0700.S	Fence Safety	LF	6,590.000			6,590.000
0416	618.0100	Maintenance And Repair of Haul Roads (project) 01. 3080-01-40	EACH	1.000	1.000		
0418	618.0100	Maintenance And Repair of Haul Roads (project) 02. 3080-01-75	EACH	1.000		1.000	
0420	618.0100	Maintenance And Repair of Haul Roads (project) 03. 3080-01-76	EACH	1.000			1.000
0422	619.1000	Mobilization	EACH	1.000	0.150	0.300	0.550
0424	620.0300	Concrete Median Sloped Nose	SF	714.000		511.000	203.000
0426	623.0200	Dust Control Surface Treatment	SY	241,423.000		23,500.000	217,923.000
0428	624.0100	Water	MGAL	1,156.000	6.000	270.000	880.000
0430	625.0500	Salvaged Topsoil	SY	376,490.000		53,610.000	322,880.000
0432	627.0200	Mulching	SY	236,161.000		42,550.000	193,611.000
0434	628.1504	Silt Fence	LF	6,079.000		360.000	5,719.000
0436	628.1520	Silt Fence Maintenance	LF	6,079.000		360.000	5,719.000
0438	628.1905	Mobilizations Erosion Control	EACH	19.000		4.000	15.000
0440	628.1910	Mobilizations Emergency Erosion Control	EACH	19.000		4.000	15.000
0442	628.2004	Erosion Mat Class I Type B	SY	71,628.000		8,160.000	63,468.000
0444	628.2008	Erosion Mat Urban Class I Type B	SY	42,585.000		2,040.000	40,545.000
0446	628.2023	Erosion Mat Class II Type B	SY	28,485.000			28,485.000
0448	628.7005	Inlet Protection Type A	EACH	233.000		84.000	149.000
0450	628.7010	Inlet Protection Type B	EACH	27.000			27.000
0452	628.7015	Inlet Protection Type C	EACH	159.000		84.000	75.000
0454	628.7020	Inlet Protection Type D	EACH	28.000		4.000	24.000
0456	628.7504	Temporary Ditch Checks	LF	1,087.000		370.000	717.000
0458	628.7555	Culvert Pipe Checks	EACH	190.000		48.000	142.000
0460	628.7560	Tracking Pads	EACH	10.000			10.000
0462	628.7570	Rock Bags	EACH	120.000			120.000
0464	629.0205	Fertilizer Type A	CWT	251.200		35.200	216.000
0466	630.0110	Seeding Mixture No. 10	LB	1,698.000		235.000	1,463.000
0468	630.0120	Seeding Mixture No. 20	LB	2,750.000		610.000	2,140.000
0470	630.0130	Seeding Mixture No. 30	LB	2,653.000		250.000	2,403.000
0472	630.0140	Seeding Mixture No. 40	LB	353.000			353.000
0474	630.0200	Seeding Temporary	LB	10,651.000		1,460.000	9,191.000
0476	630.0500	Seed Water	MGAL	18,563.000		10,920.000	7,643.000
0478	631.1000	Sod Lawn	SY	72.000			72.000
0480	631.1100	Sod Erosion Control	SY	34.000			34.000
0482	633.0100	Delineator Posts Steel	EACH	89.000			89.000
0484	633.0500	Delineator Reflectors	EACH	117.000			117.000
0486	633.1000	Delineators Barrier Wall	EACH	31.000			31.000
0488	633.5200	Markers Culvert End	EACH	69.000		25.000	44.000
0490	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	5.000		3.000	2.000

Line	Item	Item Description	Unit	Total	3080-01-40 Qty	3080-01-75 Qty	3080-01-76 Qty
0492	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	95.000		76.000	19.000
0494	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	45.000		30.000	15.000
0496	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	48.000		4.000	44.000
0498	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	4.000		2.000	2.000
0500	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	2.000			2.000
0502	635.0200	Sign Supports Structural Steel HS	LB	8,241.000			8,241.000
0504	637.0620	Sign Flags Permanent Type II	EACH	70.000		50.000	20.000
0506	637.1220	Signs Type I Reflective SH	SF	2,727.500		655.000	2,072.500
0508	637.2210	Signs Type II Reflective H	SF	1,304.180		643.000	661.180
0510	637.2220	Signs Type II Reflective SH	SF	13.500		6.750	6.750
0512	637.2230	Signs Type II Reflective F	SF	400.500		152.000	248.500
0514	638.2102	Moving Signs Type II	EACH	40.000			40.000
0516	638.2602	Removing Signs Type II	EACH	110.000			110.000
0518	638.3000	Removing Small Sign Supports	EACH	101.000			101.000
0520	640.1303.S	Pond Liner Clay	CY	26,680.000		23,850.000	2,830.000
0522	642.5401	Field Office Type D	EACH	1.000	0.150	0.300	0.550
0524	643.0300	Traffic Control Drums	DAY	112,658.000			112,658.000
0526	643.0420	Traffic Control Barricades Type III	DAY	8,064.000			8,064.000
0528	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	15.000			15.000
0530	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	15.000			15.000
0532	643.0705	Traffic Control Warning Lights Type A	DAY	16,118.000			16,118.000
0534	643.0715	Traffic Control Warning Lights Type C	DAY	8,403.000			8,403.000
0536	643.0800	Traffic Control Arrow Boards	DAY	831.000			831.000
0538	643.0900	Traffic Control Signs	DAY	55,928.000			55,928.000
0540	643.0910	Traffic Control Covering Signs Type I	EACH	10.000			10.000
0542	643.1000	Traffic Control Signs Fixed Message	SF	220.000			220.000
0544	643.1050	Traffic Control Signs PCMS	DAY	426.000			426.000
0546	643.5000	Traffic Control	EACH	1.000	0.150	0.300	0.550
0548	644.1810	Temporary Pedestrian Barricade	LF	42.000			42.000
0550	645.0111	Geotextile Type DF Schedule A	SY	6,128.000		3,696.000	2,432.000
0552	645.0120	Geotextile Type HR	SY	2,801.000		580.000	2,221.000
0554	645.0135	Geotextile Type SR	SY	4,600.000			4,600.000
0556	645.0220	Geogrid Type SR	SY	9,700.000		3,800.000	5,900.000
0558	646.1020	Marking Line Epoxy 4-Inch	LF	43,181.000		15,132.000	28,049.000
0560	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	47,680.000		548.000	47,132.000
0562	646.1555	Marking Line Grooved Contrast Permanent Tape 4-Inch	LF	4,890.000			4,890.000
0564	646.3020	Marking Line Epoxy 8-Inch	LF	4,608.000		3,812.000	796.000
0566	646.3555	Marking Line Grooved Contrast Permanent Tape 8-Inch	LF	5,212.000			5,212.000
0568	646.5020	Marking Arrow Epoxy	EACH	33.000		27.000	6.000
0570	646.6120	Marking Stop Line Epoxy 18-Inch	LF	26.000		26.000	
0572	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	354.000		290.000	64.000
0574	646.6464	Cold Weather Marking Epoxy 4-Inch	LF	4,812.000			4,812.000
0576	646.7120	Marking Diagonal Epoxy 12-Inch	LF	540.000		409.000	131.000
0578	646.7220	Marking Chevron Epoxy 24-Inch	LF	711.000			711.000
0580	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	865.000		615.000	250.000
0582	646.8120	Marking Curb Epoxy	LF	96.000		66.000	30.000
0584	646.8220	Marking Island Nose Epoxy	EACH	7.000		4.000	3.000
0586	646.9000	Marking Removal Line 4-Inch	LF	15,405.000			15,405.000
0588	646.9100	Marking Removal Line 8-Inch	LF	200.000			200.000

					3080-01-40	3080-01-75	3080-01-76
Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
0590	646.9200	Marking Removal Line Wide	LF	16.000			16.000
0592	646.9300	Marking Removal Special Marking	EACH	2.000			2.000
0594	649.0105	Temporary Marking Line Paint 4-Inch	LF	18,520.000			18,520.000
0596	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	2,990.000			2,990.000
0598	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	22,755.000			22,755.000
0600	649.0220	Temporary Marking Line Epoxy 8-Inch	LF	200.000			200.000
0602	649.0250	Temporary Marking Line Removable Tape 8-Inch	LF	880.000			880.000
0604	649.0520	Temporary Marking Arrow Epoxy	EACH	2.000			2.000
0606	649.0760	Temporary Marking Raised Pavement Marker Type I	EACH	102.000			102.000
0608	649.0820	Temporary Marking Stop Line Epoxy 18-Inch	LF	44.000			44.000
0610	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	74.000			74.000
0612	649.0960	Temporary Marking Removable Mask Out Tape 6-Inch	LF	40.000			40.000
0614	652.0125	Conduit Rigid Metallic 2-Inch	LF	32.000		22.000	10.000
0616	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	14,326.000		6,824.000	7,502.000
0618	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	1,142.000		721.000	421.000
0620	652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	445.000			445.000
0622	652.0700.S	Install Conduit into Existing Item	EACH	1.000			1.000
0624	653.0140	Pull Boxes Steel 24x42-Inch	EACH	72.000	2.000	49.000	21.000
0626	653.0222	Junction Boxes 18x12x6-Inch	EACH	2.000		2.000	
0628	654.0105	Concrete Bases Type 5	EACH	32.000		28.000	4.000
0630	654.0230	Concrete Control Cabinet Bases Type L30	EACH	4.000		2.000	2.000
0632	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	5,575.000	1,130.000		4,445.000
0634	655.0610	Electrical Wire Lighting 12 AWG	LF	13,116.000		6,648.000	6,468.000
0636	655.0615	Electrical Wire Lighting 10 AWG	LF	23,862.000			23,862.000
0638	655.0620	Electrical Wire Lighting 8 AWG	LF	34,730.000		25,778.000	8,952.000
0640	655.0625	Electrical Wire Lighting 6 AWG	LF	20,649.000		19,996.000	653.000
0642	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. 325+31.89 'MP'	LS	1.000			1.000
0644	656.0200	Electrical Service Meter Breaker Pedestal (location) 02. 393+42.75 'MP'	LS	1.000			1.000
0646	656.0200	Electrical Service Meter Breaker Pedestal (location) 03. 393+56.17'MP'	LS	1.000		1.000	
0648	656.0200	Electrical Service Meter Breaker Pedestal (location) 04. 517+01.78'NB'	LS	1.000		1.000	
0650	656.0200	Electrical Service Meter Breaker Pedestal (location) 05. CCTV130188	LS	1.000			1.000
0652	656.0500	Electrical Service Breaker Disconnect Box (location) 01. CCTV1301888	LS	1.000			1.000
0654	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	90.000		40.000	50.000
0656	657.0322	Poles Type 5-Aluminum	EACH	34.000		30.000	4.000
0658	657.0615	Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	EACH	42.000			42.000
0660	657.0715	Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT	EACH	53.000		46.000	7.000
0662	659.1115	Luminaires Utility LED A	EACH	42.000			42.000
0664	659.1120	Luminaires Utility LED B	EACH	53.000		46.000	7.000
0666	659.2230	Lighting Control Cabinets 240/480 30-Inch	EACH	4.000		2.000	2.000
0668	670.0100	Field System Integrator	LS	1.000			1.000
0670	670.0200	ITS Documentation 01. 3080-01-40	LS	1.000	1.000		
0672	670.0200	ITS Documentation 02. 3080-01-76	LS	1.000			1.000
0674	671.0112	Conduit HDPE 1-Duct 2-Inch	LF	2,745.000	205.000		2,540.000
0676	671.0212	Conduit HDPE Directional Bore 1-Duct 2-Inch	LF	2,375.000	475.000		1,900.000
0678	673.0105	Communication Vault Type 1	EACH	4.000	1.000		3.000
0680	673.0200	Tracer Wire Marker Posts	EACH	4.000	1.000		3.000
0682	673.1225.S	Install Pole Mounted Cabinet	EACH	1.000			1.000
0684	674.0300	Remove Cable	LF	5,310.000	1,220.000		4,090.000
0686	674.0400	Reinstall Cable	LF	3,860.000			3,860.000

					3080-01-40	3080-01-75	3080-01-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0688	677.0150	Install Camera Pole 50-FT	EACH	1.000			1.000
0690	677.0200	Install Camera Assembly	EACH	1.000			1.000
0692	678.0006	Install Fiber Optic Cable Outdoor Plant 6-CT	LF	835.000			835.000
0694	678.0024	Install Fiber Optic Cable Outdoor Plant 24-CT	LF	1,330.000	1,330.000		
0696	678.0200	Fiber Optic Splice Enclosure	EACH	2.000	1.000		1.000
0698	678.0300	Fiber Optic Splice	EACH	104.000	28.000		76.000
0700	678.0400	Fiber Optic Termination	EACH	6.000			6.000
0702	678.0500	Communication System Testing 01. 3080-01-40	LS	1.000	1.000		
0704	678.0500	Communication System Testing 02. 3080-01-76	LS	1.000			1.000
0706	678.0600	Install Ethernet Switches	EACH	1.000			1.000
0708	690.0150	Sawing Asphalt	LF	4,072.000	140.000	83.000	3,849.000
0710	690.0250	Sawing Concrete	LF	13,057.000	624.000		12,433.000
0712	715.0502	Incentive Strength Concrete Structures	DOL	7,440.000		7,440.000	
0714	715.0603	Incentive Strength Concrete Barrier	DOL	2,935.000			2,935.000
0716	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	8,644.000		2,429.000	6,215.000
0718	740.0440	Incentive IRI Ride	DOL	8,711.000			8,711.000
0720	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000		
0722	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	3,200.000	3,200.000		
0724	SPV.0005	Special 01. Pre-Planting Vegetation Treatment	ACRE	2.800			2.800
0726	SPV.0005	Special 02. Seed Bed Preparation	ACRE	2.800			2.800
0728	SPV.0045	Special 01. Temporary Portable Rumble Strip Arrays Non-flagging	DAY	48.000			48.000
0730	SPV.0060	Special 01. Construct LB-3 Base	EACH	58.000		12.000	46.000
0732	SPV.0060	Special 02. Poles 30-Foot 11 Gauge Simplex	EACH	58.000		12.000	46.000
0734	SPV.0060	Special 03. Ground Rod	EACH	1.000			1.000
0736	SPV.0060	Special 04. CIP Inlet 4	EACH	20.000			20.000
0738	SPV.0060	Special 05. CIP Inlet 2X3	EACH	43.000			43.000
0740	SPV.0060	Special 06. CIP Manhole 6X6	EACH	10.000			10.000
0742	SPV.0060	Special 07. CIP Inlet SP	EACH	6.000			6.000
0744	SPV.0060	Special 08. Salvage and Replace Pipe Underdrain Endwall	EACH	63.000			63.000
0746	SPV.0060	Special 09. Removing Communication Vault	EACH	3.000	2.000		1.000
0748	SPV.0060	Special 10. Outlet Control Structure Pond A	EACH	1.000			1.000
0750	SPV.0060	Special 11. Outlet Control Structure Pond B	EACH	1.000			1.000
0752	SPV.0060	Special 12. Outlet Control Structure Pond C	EACH	1.000			1.000
0754	SPV.0060	Special 13. Orifice Plate Restrictor 6-Inch	EACH	1.000			1.000
0756	SPV.0060	Special 14. Outlet Control Structure Pond D	EACH	1.000			1.000
0758	SPV.0060	Special 15. Settlement Gauge	EACH	5.000			5.000
0760	SPV.0060	Special 16. Temporary Connection to Existing Storm Sewer	EACH	4.000			4.000
0762	SPV.0060	Special 17. Reconstructing Inlets Median 2 Grate	EACH	3.000			3.000
0764	SPV.0060	Special 19. Fence Gate Salvaged	EACH	2.000			2.000
0766	SPV.0060	Special 20. Native Seed Surveillance and Care Cycles	EACH	8.000			8.000
0768	SPV.0060	Special 21. Dewatering for Pond A	EACH	1.000			1.000
0770	SPV.0060	Special 22. Dewatering for Pond B	EACH	1.000			1.000
0772	SPV.0060	Special 23. Dewatering for Pond EX-S	EACH	1.000			1.000
0774	SPV.0060	Special 24. Dewatering for Pond EX-N	EACH	1.000			1.000
0776	SPV.0060	Special 25. Dewatering for County Pond	EACH	1.000		1.000	
0778	SPV.0060	Special 26. Project Dewatering, ID 3080-01-40	EACH	1.000	1.000		
0780	SPV.0060	Special 27. Project Dewatering, ID 3080-01-76	EACH	1.000			1.000
0782	SPV.0060	Special 30. Install City Provided Sign	EACH	38.000			38.000
0784	SPV.0060	Special 31. Precast Sign Post Base	EACH	23.000			23.000

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	3080-01-40 Qty	3080-01-75 Qty	3080-01-76 Qty
0786	SPV.0060	Special 32. Sign Post Base For Concrete Installation	EACH	4.000			4.000
0788	SPV.0060	Special 33. Temporary Lighting System Millpond Road Intersection	EACH	1.000			1.000
0790	SPV.0060	Special 34. Survey Project 3080-01-40	EACH	1.000	1.000		
0792	SPV.0060	Special 35. Survey Project 3080-01-75	EACH	1.000		1.000	
0794	SPV.0060	Special 36. Survey Project 3080-01-76	EACH	1.000			1.000
0796	SPV.0060	Special 37. Waste Water Control	EACH	1.000	1.000		
0798	SPV.0060	Special 38. Reconstruct Bench and Flowlines	EACH	1.000	1.000		
0800	SPV.0060	Special 39. Utility Line Opening (ULO)	EACH	20.000	10.000	5.000	5.000
0802	SPV.0060	Special 40. Construction Staking for Sanitary Sewer	EACH	1.000	1.000		
0804	SPV.0060	Special 41. Sewer Electronic Markers	EACH	3.000	3.000		
0806	SPV.0060	Special 42. Sanitary Sewer Tap	EACH	2.000	2.000		
0808	SPV.0060	Special 43. Sanitary Sewer Access Structure (4-FT Diameter)	EACH	21.000	21.000		
0810	SPV.0060	Special 44. Sanitary Sewer Access Structure (5-FT Diameter)	EACH	1.000	1.000		
0812	SPV.0060	Special 45. Sanitary Sewer Internal Chimney Seal	EACH	4.000	4.000		
0814	SPV.0060	Special 46. External Sanitary Sewer Access Structure Joint Seal	EACH	20.000	20.000		
0816	SPV.0060	Special 47. Adjust Sewer Access Structure Special	EACH	3.000	3.000		
0818	SPV.0060	Special 48. Reconstruct MMSD Sanitary Sewer Structure	EACH	1.000	1.000		
0820	SPV.0060	Special 49. Abandon Sanitary Sewer - Pipe Plug	EACH	6.000	6.000		
0822	SPV.0060	Special 50. Construction Staking for Water Main	EACH	1.000	1.000		
0824	SPV.0060	Special 51. Water Valve 6-Inch	EACH	17.000	17.000		
0826	SPV.0060	Special 52. Water Valve 8-Inch	EACH	4.000	4.000		
0828	SPV.0060	Special 53. Water Valve 12-Inch	EACH	22.000	22.000		
0830	SPV.0060	Special 54. Hydrant	EACH	17.000	17.000		
0832	SPV.0060	Special 55. Salvage and Relocate Hydrant and Valve	EACH	2.000	2.000		
0834	SPV.0060	Special 56. Remove Hydrant and Valve	EACH	3.000	3.000		
0836	SPV.0060	Special 57. Adjust Water Valve Box Sections	EACH	9.000	9.000		
0838	SPV.0060	Special 58. Connect to Existing Water System	EACH	3.000	3.000		
0840	SPV.0060	Special 59. Abandon Water Valve	EACH	2.000	2.000		
0842	SPV.0060	Special 60. Abandon Existing Water Main	EACH	3.000	3.000		
0844	SPV.0060	Special 61. Cap Existing Water Main	EACH	1.000	1.000		
0846	SPV.0060	Special 62. Water Utility Line Opening	EACH	2.000	2.000		
0848	SPV.0060	Special 64. Water Main Insulation	EACH	27.000	27.000		
0850	SPV.0060	Special 65. Clay Anti-Seep Collar	EACH	6.000			6.000
0852	SPV.0060	Special 66. Landmark Reference Monuments Special	EACH	1.000		1.000	
0854	SPV.0085	Special 01. Seeding Native Pollinator Mix Upland	LB	42.000			42.000
0856	SPV.0085	Special 02. Seeding Native Pollinator Mix Swale	LB	42.000			42.000
0858	SPV.0090	Special 01. Compost Tubes	LF	1,712.000			1,712.000
0860	SPV.0090	Special 02. Sign Posts	LF	282.000			282.000
0862	SPV.0090	Special 03. Temporary Rumble Strip (Orange) in Advance of Lane Closure	LF	1,836.000			1,836.000
0864	SPV.0090	Special 40. Sanitary Sewer Pipe SDR 26 8-Inch	LF	388.000	388.000		
0866	SPV.0090	Special 41. Sanitary Sewer Pipe SDR 26 15-Inch	LF	3,501.000	3,501.000		
0868	SPV.0090	Special 42. Select Fill for Sanitary Sewer	LF	6,806.000	6,806.000		
0870	SPV.0090	Special 43. Sanitary Sewer Pipe PVC 10-Inch with Casing	LF	234.000	234.000		
0872	SPV.0090	Special 44. Sanitary Sewer Pipe PVC 15-Inch with Casing	LF	208.000	208.000		
0874	SPV.0090	Special 45. Utility Trench Patch Type III	LF	605.000	605.000		
0876	SPV.0090	Special 46. Sanitary Sewer Pipe SDR 35 8-Inch	LF	102.000	102.000		
0878	SPV.0090	Special 47. Sanitary Sewer Pipe SDR 35 15-Inch	LF	2,373.000	2,373.000		
0880	SPV.0090	Special 50. Water Main 6-Inch	LF	282.000	282.000		
0882	SPV.0090	Special 51. Water Main 8-Inch	LF	429.000	429.000		

					3080-01-40	3080-01-75	3080-01-76
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0884	SPV.0090	Special 52. Water Main 12-Inch	LF	6,595.000	6,595.000		
0886	SPV.0090	Special 53. Casing Pipe 24-Inch	LF	341.000	341.000		
0888	SPV.0165	Special 01. Wall Concrete Panel Mechanically Stabilized Earth R-13-370	SF	2,041.000		2,041.000	
0890	SPV.0165	Special 02. Wall Concrete Panel Mechanically Stabilized Earth R-13-371	SF	2,026.000		2,026.000	
0892	SPV.0195	Special 01. 3-Inch Clear Stone	TON	4.500		4.500	
0894	SPV.0200	Special 40. Construct Inside Drop 8-Inch	VF	14.820	14.820		

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SANITARY SEWER PIPES (SEWER MAIN)

PROJECT NUMBER	CATEGORY	LOCATION DOWNSTREAM	LOCATION UPSTREAM	EL DOWNSTREAM	EL UPSTREAM	SLOPE (%)	SPV.0060.41 SPECIAL (41. SEWER ELECTRONIC MARKERS) EACH	SPV.0090.40 SPECIAL (40. SANITARY SEWER PIPE SDR 26 8-INCH) LF	SPV.0090.41 SPECIAL (41. SANITARY SEWER PIPE SDR 26 15-INCH) LF	SPV.0090.42 SPECIAL (42. SELECT FILL FOR SANITARY SEWER) LF	SPV.0090.43 SPECIAL (43. SANITARY SEWER PIPE PVC 10-INCH WITH CASING) LF	SPV.0090.44 SPECIAL (44. SANITARY SEWER PIPE PVC 15-INCH WITH CASING) LF	SPV.0090.46 SPECIAL (46. SANITARY SEWER PIPE SDR 35 8-INCH) LF	SPV.0090.47 SPECIAL (47. SANITARY SEWER PIPE SDR 35 15-INCH) LF	REMARKS
3080-01-40	0010	SAS#1	PARKS MH 1	852.83	853.26	0.42%	-	-	-	102	-	-	102	-	PARKS LATERAL
					TOTAL 0010		0	0	0	102	0	0	102	0	
3080-01-40	0040	MH 07-249	SAS#1	852.27	852.78	0.23%	-	-	-	220	-	-	-	220	ASTM D3034 SDR 35
		SAS#1	SAS#2	852.83	853.72	0.23%	-	-	-	387	-	-	-	387	ASTM D3034 SDR 35
		SAS#2	SAS#3	853.77	854.20	0.23%	-	-	-	188	-	-	-	188	ASTM D3034 SDR 35
		SAS#3	SAS#4	854.25	854.69	0.23%	-	-	-	193	-	-	-	193	ASTM D3034 SDR 35
		SAS#4	SAS#5	854.74	855.66	0.23%	-	-	-	398	-	-	-	398	ASTM D3034 SDR 35
		SAS#5	SAS#6	855.71	856.34	0.23%	-	-	-	273	-	-	-	273	ASTM D3034 SDR 35
		SAS#6	SAS#7	856.39	857.14	0.28%	-	-	-	267	-	-	-	267	ASTM D3034 SDR 35
		SAS#7	SAS#8	857.19	858.44	0.28%	-	-	-	447	-	-	-	447	ASTM D3034 SDR 35
		SAS#8	SAS#9	858.49	859.60	0.28%	-	-	397	397	-	-	-	-	ASTM D3034 SDR 26
		SAS#9	SAS#10	859.65	860.76	0.28%	-	-	397	397	-	-	-	-	ASTM D3034 SDR 26
		SAS#10	SAS#11	860.81	861.92	0.28%	-	-	397	397	-	-	-	-	ASTM D3034 SDR 26
		SAS#11	SAS#14	861.97	863.03	0.28%	-	-	377	377	-	-	-	-	ASTM D3034 SDR 26
		SAS#11	STUB	862.57	863.17	1.00%	1	60	-	60	-	-	-	-	ASTM D3034 SDR-26 LANDFILL LAT
		SAS#14	SAS#12	863.44	870.58	3.05%	-	-	-	234	234	-	-	-	ASTM D3034 SDR 26
		SAS#12	SAS#13	885.81	892.47	4.14%	-	161	-	161	-	-	-	-	ASTM D3034 SDR-26 LANDFILL LAT
		SAS#14	SAS#15	863.08	863.80	0.28%	-	-	257	257	-	-	-	-	ASTM D3034 SDR 26
		SAS#15	SAS#16	863.85	864.56	0.28%	-	-	252	252	-	-	-	-	ASTM D3034 SDR 26
		SAS#16	SAS#17	864.61	865.76	0.28%	-	-	409	409	-	-	-	-	ASTM D3034 SDR 26
		SAS#16	STUB	865.56	866.75	1.00%	1	117	-	117	-	-	-	-	ASTM D3034 SDR 26
		SAS#17	SAS#18	865.81	866.89	0.28%	-	-	385	385	-	-	-	-	ASTM D3034 SDR 26
		SAS#18	SAS#19	866.99	867.58	0.28%	-	-	-	208	-	208	-	-	ASTM D3034 SDR 26
		SAS#19	SAS#20	867.68	868.35	0.28%	-	-	240	240	-	-	-	-	ASTM D3034 SDR 26
		SAS#20	SAS#21	868.45	868.88	0.28%	-	-	151	151	-	-	-	-	ASTM D3034 SDR 26
		SAS#21	SAS#22	868.98	869.65	0.28%	-	-	239	239	-	-	-	-	ASTM D3034 SDR 26
		SAS#22	STUB	870.25	870.74	1.00%	1	50	-	50	-	-	-	-	ASTM D3034 SDR- 26 COUNTY LAT
					TOTAL 0040		3	388	3,501	6,704	234	208	0	2,373	
					PROJECT 3080-01-40 TOTAL		3	388	3501	6806	234	208	102	2373	

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SANITARY SEWER STRUCTURES

PROJECT NUMBER	CATEGORY	STRUCTURE NUMBER	STATION	OFFSET	FINAL RIM	EXISTING TOP OF	EL	DEPTH (FT)	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	SPV.0060.38 SPECIAL (38. RECONSTRUCT BENCH AND FLOWLINES) EACH	SPV.0060.42 SPECIAL (42. SANITARY SEWER TAP) EACH	SPV.0060.43 SPECIAL (43. SANITARY SEWER ACCESS STRUCTURE (4-FT DIAMETER)) EACH	SPV.0060.44 SPECIAL (44. SANITARY SEWER ACCESS STRUCTURE (5-FT DIAMETER)) EACH	SPV.0060.45 SPECIAL (45. SANITARY SEWER INTERNAL CHIMNEY SEAL) EACH	SPV.0060.46 SPECIAL (46. EXTERNAL SANITARY SEWER ACCESS STRUCTURE JOINT SEAL) EACH	SPV.0060.47 SPECIAL (47. ADJUST SEWER ACCESS STRUCTURE SPECIAL) EACH	SPV.0060.48 SPECIAL (48. RECONSTRUCT MMSD SANITARY SEWER STRUCTURE) EACH	SPV.0200.40 SPECIAL (40. CONSTRUCT INSIDE DROP 8-INCH) VF	REMARKS
3080-01-40	0010	PARKS MH 1	332+02.10'MP'	99.7' RT	866.00	861.68	853.28	12.72	1	1	1	-	-	-	-	1	-	-	4' DIA. PARKS MANHOLE
		PARKS MH 2	335+05.40'MP'	312.7' RT	866.00	863.53	855.35	10.65	1	-	-	-	-	-	-	1	-	-	4' DIA. PARKS MANHOLE
		PARKS MH 3	332+02.10'MP'	325.3' RT	866.00	864.60	856.32	9.68	1	-	-	-	-	-	-	1	-	-	4' DIA. PARKS MANHOLE
							TOTAL 0010		3	1	1	0	0	0	0	3	0	0	
3080-01-40	0040	MMSD MH 07-249	329+40.80'MP'	18' RT	863.25	863.25	852.22	11.03	1	-	1	-	-	-	-	-	1	-	**SEE NOTE BELOW
		SAS#1	331+60.00'MP'	5.5' RT	862.71	-	852.78	9.93	1	-	-	1	-	1	1	-	-	-	
		SAS#2	335+50.00'MP'	5.5' LT	864.66	-	853.72	10.94	1	-	-	1	-	-	1	-	-	-	
		SAS#3	337+40.00'MP'	5.5' LT	865.60	-	854.20	11.40	1	-	-	1	-	-	1	-	-	-	
		SAS#4	339+35.00'MP'	5.5' LT	866.58	-	854.69	11.89	1	-	-	1	-	-	1	-	-	-	
		SAS#5	343+34.00'MP'	21' RT	866.16	-	855.66	10.50	1	-	-	1	-	1	1	-	-	-	
		SAS#6	346+10.00'MP'	51' RT	868.36	-	856.34	12.02	1	-	-	1	-	-	1	-	-	-	
		SAS#7	348+80.00'MP'	0'	869.34	-	857.14	12.20	1	-	-	1	-	-	1	-	-	-	
		SAS#8	353+30.00'MP'	0'	871.59	-	858.44	13.15	1	-	-	1	-	-	1	-	-	-	
		SAS#9	357+30.00'MP'	0'	873.59	-	859.60	13.99	1	-	-	1	-	-	1	-	-	-	
		SAS#10	361+30.00'MP'	0'	875.59	-	860.76	14.83	1	-	-	1	-	-	1	-	-	-	
		SAS#11	365+30.00'MP'	0'	877.59	-	861.92	15.67	1	-	-	1	-	-	1	-	-	-	
		SAS#12	469+10.00'LD'	0'	890.16	-	870.58	19.58	1	-	-	-	1	-	-	-	-	14.82	
		SAS#13	469+10.00'LD'	165' LT	900.47	-	892.47	8.00	1	-	-	1	-	-	-	-	-	-	
		SAS#14	369+10.00'MP'	0'	878.79	-	863.03	15.76	1	-	-	1	-	1	1	-	-	-	
		SAS#15	371+70.00'MP'	0'	879.39	-	863.80	15.59	1	-	-	1	-	-	1	-	-	-	
		SAS#16	374+25.00'MP'	0'	879.62	-	864.56	15.06	1	-	-	1	-	1	1	-	-	-	
		SAS#17	378+37.00'MP'	0'	880.59	-	865.76	14.83	1	-	-	1	-	-	1	-	-	-	
		SAS#18	382+25.00'MP'	0'	881.68	-	866.89	14.79	1	-	-	1	-	-	1	-	-	-	
		SAS#19	482+25.00'LD'	0'	881.46	-	867.58	13.88	1	-	-	1	-	-	1	-	-	-	
		SAS#20	484+67.00'LD'	5.5' RT	880.55	-	868.35	12.20	1	-	-	1	-	-	1	-	-	-	
		SAS#21	486+20.00'LD'	5.5' RT	881.87	-	868.88	12.99	1	-	-	1	-	-	1	-	-	-	
		SAS#22	538+50.00'NB'	0'	884.62	-	869.65	14.97	1	-	-	1	-	-	1	-	-	-	
							TOTAL 0040		23	0	1	21	1	4	20	0	1	14.82	
							PROJECT 3080-01-40 TOTAL		26	1	2	21	1	4	20	3	1	14.82	

** CONTACT RAY SCHNEIDER FROM MMSD (RAYS@MADSEWER.ORG,(608)347-3628) 5 DAYS PRIOR TO DOING MANHOLE ADJUSTMENT OR SANITARY TAP WORK TO ARRANGE FOR PERMITTING AND INSPECTION.
ALL WORK SHALL CONFORM WITH MMSD SPECIFICATIONS. MMSD PERMIT COST IS THE RESPONSIBILTY OF THE CONTRACTOR.

SANITARY SEWER MAIN ABANDONMENT

PROJECT NUMBER	CATEGORY	FROM STRUCTURE # DOWNSTREAM	TO STRUCTURE # UPSTREAM	LENGTH UPSTREAM	PAID (Y/N)	SIZE	PIPE MATERIAL	SPV.0060.49 SPECIAL (49. ABANDON SANITARY SEWER - PIPE PLUG) EACH	REMARKS
3080-01-40	0010	MMSD MH 07-249	PARKS MH 1	303.00	Y	8-INCH	AC PIPE	2	ABANDON SEWER WITH PLUGS
		UNDISTRIBUTED						4	
							TOTAL 0010	6	

MISCELLANEOUS SANITARY ITEMS

PROJECT NUMBER	CATEGORY	STATION	LOCATION	611.8120.S COVER PLATES TEMPORARY EACH	SPV.0060.26 SPECIAL (26. PROJECT DEWATERING, ID 3080-01-40) EACH	SPV.0060.37 SPECIAL (37. WASTE WATER CONTROL) EACH	SPV.0060.39 SPECIAL (39. UTILITY LINE OPENING (ULO)) EACH	REMARKS
3080-01-40	0040	PROJECT-WIDE	DANE COUNTY SANITARY SEWER	4	1	1	10	
			TOTAL 0040	4	1	1	10	

UTILITY TRENCH PATCHES

PROJECT NUMBER	CATEGORY	STATION	OFFSET	TO	STATION	OFFSET	LOCATION	SPV.0090.45 SPECIAL (45. UTILITY TRENCH PATCH TYPE III) LF	REMARKS
3080-01-40	0010	331+64'MP'	13' RT	-	331+60'MP'	6' RT	MILLPOND RD	5	STAGE 1A
							TOTAL 0010	5	
3080-01-40	0040	329+41'MP'	18' RT	-	331+60'MP'	6' RT	MILLPOND RD	225	STAGE 1A
		344+37'MP'	37' RT	-	344+89'MP'	45' RT	YAHARA HILLS GOLF COURSE ACCESS	55	STAGE 1B
		340+30'MP'	0' LT	-	343+35'MP'	42' RT	MILLPOND RD	320	STAGE 1B
							TOTAL 0040	600	
							PROJECT 3080-01-40 TOTAL	605	

CONCRETE PAVEMENT REPLACEMENT ITEMS

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	205.0100 EXCAVATION COMMON CY	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	416.1725 CONCRETE PAVEMENT REPLACEMENT SHES SY	465.0125 ASPHALTIC SURFACE TEMPORARY TON	624.0100 WATER MGAL	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
3080-01-40	0040	169+00	-	169+15	USH 12/18 WB & EB	22	68	91	10	36	88	23	1	30	156	SEE CONC PVMT REPLACEMENT & REPAIR PN_07
		182+15	-	182+35	USH 12/18 WB & EB	30	155	209	12	36	118	51	2	40	156	SEE CONC PVMT REPLACEMENT & REPAIR PN_08
					TOTAL 0040	52	223	300	22	72	206	74	3	70	312	
3080-01-40	0050	146+45	-	146+65	USH 12/18 WB & EB	30	131	175	12	72	118	43	2	40	156	SEE CONC PVMT REPLACEMENT & REPAIR PN_05
		169+15	-	169+30	USH 12/18 WB & EB	22	68	95	10	36	88	23	1	30	156	SEE CONC PVMT REPLACEMENT & REPAIR PN_07
					TOTAL 0050	52	199	270	22	108	206	66	3	70	312	
					PROJECT 3080-01-40 TOTAL	104	422	570	44	180	412	140	6	140	624	

WATER VALVES

PROJECT NUMBER	CATEGORY	STATION	OFFSET	LOCATION	SPV.0060.51 SPECIAL (51. WATER VALVE 6-INCH) EACH	SPV.0060.52 SPECIAL (52. WATER VALVE 8-INCH) EACH	SPV.0060.53 SPECIAL (53. WATER VALVE 12-INCH) EACH
3080-01-40	0020	324+78.9'MP'	53.9' LT	MILLPOND RD	1	-	-
		329+27.9'MP'	24.0' RT	MILLPOND RD	1	-	-
		338+51.4'MP'	24.8' RT	MILLPOND RD	-	1	-
				TOTAL 0020	2	1	0
3080-01-40	0050	4+34.0'W1'	5.5' LT	MAAHIC WAY	1	-	-
		9+38.8'W1'	5.5' LT	MAAHIC WAY	1	-	-
		14+84.1'W1'	3.0' LT	MILLPOND RD	1	-	-
		20+17.1'W1'	3.0' LT	MILLPOND RD	1	-	-
		25+17.1'W1'	3.0' LT	MILLPOND RD	1	-	-
		30+17.1'W1'	3.0' LT	MILLPOND RD	1	-	-
		35+17.1'W1'	3.0' LT	MILLPOND RD	1	-	-
		38+50.0'W1'	5.5' LT	MAAHIC WAY	1	-	-
		42+37.1'W1'	5.5' LT	MAAHIC WAY	1	-	-
		47+36.5'W1'	5.5' LT	MAAHIC WAY	1	-	-
		52+36.1'W1'	3.0' LT	MAAHIC WAY	1	-	-
		57+08.7'W1'	3.0' LT	CTH AB - NORTH	1	-	-
		6+25.0'W2'	3.0' LT	MILLPOND RD	1	-	-
		3+00.0'W3'	4.8' RT	MILLPOND RD	1	-	-
		343+39.3'MP'	41.0' RT	MILLPOND RD	1	-	-
		0+06.7'W3'	0.0'	MILLPOND RD	-	1	-
		2+90.0'W3'	0.0'	MILLPOND RD	-	1	-
		3+37.5'W3'	0.0'	MILLPOND RD	-	1	-
		1+15.2'W1'	0.0'	MAAHIC WAY	-	-	1
		4+44.0'W1'	0.0'	MAAHIC WAY	-	-	1
		9+48.9'W1'	0.0'	MAAHIC WAY	-	-	1
		12+53.5'W1'	0.0'	MILLPOND RD	-	-	1
		12+82.5'W1'	0.0'	MILLPOND RD	-	-	1
		14+94.1'W1'	0.0'	MILLPOND RD	-	-	1
		20+27.1'W1'	0.0'	MILLPOND RD	-	-	1
		25+27.1'W1'	0.0'	MILLPOND RD	-	-	1
		30+27.1'W1'	0.0'	MILLPOND RD	-	-	1
		31+39.1'W1'	5.5' RT	MILLPOND RD	-	-	1
		35+07.1'W1'	0.0'	MILLPOND RD	-	-	1
		35+40.0'W1'	0.0'	MILLPOND RD	-	-	1
		37+64.2'W1'	6.6' LT	MAAHIC WAY	-	-	1
		38+60.0'W1'	0.0'	MAAHIC WAY	-	-	1
		42+47.2'W1'	0.0'	MAAHIC WAY	-	-	1
		47+46.5'W1'	0.0'	MAAHIC WAY	-	-	1
		52+46.0'W1'	0.0'	MAAHIC WAY	-	-	1
		56+95.7'W1'	0.0'	CTH AB - NORTH	-	-	1
		57+01.7'W1'	5.5' RT	CTH AB - NORTH	-	-	1
		1+30.9'W2'	0.0'	MILLPOND RD	-	-	1
		6+10.0'W2'	5.5' RT	MILLPOND RD	-	-	1
		6+17.5'W2'	0.0'	MILLPOND RD	-	-	1
				TOTAL 0050	15	3	22
				PROJECT 3080-01-40 TOTAL	17	4	22

HYDRANTS

PROJECT NUMBER	CATEGORY	STATION	OFFSET	LOCATION	SPV.0060.54 SPECIAL (54. HYDRANT) EACH	SPV.0060.55 SPECIAL (55. SALVAGE AND RELOCATE HYDRANT AND VALVE) EACH	SPV.0060.56 SPECIAL (56. REMOVE HYDRANT AND VALVE) EACH
3080-01-40	0020	324+76.7'MP'	56.8' LT	MILLPOND RD	1	-	-
		326+25.3'MP'	28.3' RT	MILLPOND RD	-	-	1
		329+13.6'MP'	25.3' LT	MILLPOND RD	-	-	1
		329+27.9'MP'	40.0' RT	MILLPOND RD	1	-	-
		333+51.6'MP'	31.1' RT	MILLPOND RD	-	1	-
		338+44.0'MP'	24.3' RT	MILLPOND RD	-	1	-
		343+35.4'MP'	48.0' RT	MILLPOND RD	1	-	-
		343+45.3'MP'	32.0' RT	MILLPOND RD	-	-	1
				TOTAL 0020	3	2	3
3080-01-40	0050	4+34.0'W1'	18.5' LT	MAAHIC WAY	1	-	-
		9+38.9'W1'	18.5' LT	MAAHIC WAY	1	-	-
		14+84.1'W1'	11.0' LT	MILLPOND RD	1	-	-
		20+17.1'W1'	11.0' LT	MILLPOND RD	1	-	-
		25+17.1'W1'	11.0' LT	MILLPOND RD	1	-	-
		30+17.1'W1'	11.0' LT	MILLPOND RD	1	-	-
		35+17.1'W1'	11.0' LT	MILLPOND RD	1	-	-
		38+50.0'W1'	15.5' LT	MAAHIC WAY	1	-	-
		42+37.2'W1'	18.5' LT	MAAHIC WAY	1	-	-
		47+36.5'W1'	18.5' LT	MAAHIC WAY	1	-	-
		52+36.5'W1'	13.0' LT	MAAHIC WAY	1	-	-
		57+08.7'W1'	13.0' LT	CTH AB - NORTH	1	-	-
		6+25.0'W2'	11.0' LT	MILLPOND RD	1	-	-
		3+00.2'W3'	19.7' RT	MILLPOND RD	1	-	-
				TOTAL 0050	14	0	0
				PROJECT 3080-01-40 TOTAL	17	2	3

CONNECT TO EXISTING WATER SYSTEM

PROJECT NUMBER	CATEGORY	STATION	OFFSET	LOCATION	SPV.0060.58 SPECIAL (58. CONNECT TO EXISTING WATER SYSTEM) EACH
3080-01-40	0050	1+00.0'W1'	0.0'	MAAHIC WAY	1
		343+36.8'MP'	33.5' RT	MILLPOND RD	1
		343+45.3'MP'	40.7' RT	MILLPOND RD	1
				TOTAL 0050	3

3

ADJUST WATER VALVE

PROJECT NUMBER	CATEGORY	STATION	OFFSET	LOCATION	SPV.0060.57 SPECIAL (57. ADJUST WATER VALVE BOX SECTIONS) EACH
3080-01-40	0020	326+19.3'MP'	24.9' RT	MILLPOND RD	1
		326+25.3'MP'	27.7' RT	MILLPOND RD	1
		329+70.7'MP'	23.4' RT	MILLPOND RD	2
		329+77.0'MP'	24.2' RT	MILLPOND RD	2
		333+57.5'MP'	30.5' RT	MILLPOND RD	2
		343+46.0'MP'	41.3' RT	MILLPOND RD	1
				TOTAL 0020	9

ABANDON WATER ITEMS

PROJECT NUMBER	CATEGORY	STATION	OFFSET	LOCATION	SPV.0060.59 SPECIAL (59. ABANDON WATER VALVE) EACH	SPV.0060.60 SPECIAL (60. ABANDON EXISTING WATER MAIN) EACH	SPV.0060.61 SPECIAL (61. CAP EXISTING WATER MAIN) EACH
3080-01-40	0020	324+90.0'MP'	40.0' LT	MILLPOND RD	-	1	-
		326+25.3'MP'	28.3' RT	MILLPOND RD	-	-	1
		329+25.0'MP'	21.0' LT	MILLPOND RD	-	1	-
		329+27.5'MP'	18.0' RT	MILLPOND RD	-	1	-
		329+19.6'MP'	20.9' LT	MILLPOND RD	1	-	-
		329+27.5'MP'	15.2' RT	MILLPOND RD	1	-	-
				TOTAL 0020	2	3	1

CASING PIPE 24-INCH

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	SPV.0090.53 SPECIAL (53. CASING PIPE 24-INCH) LF
3080-01-40	0050	10+20.0'W1'	-	12+05.0'W1'	USH 12/18 WB & EB	185
		35+46.7'W1'	-	37+02.6'W1'	USH 12/18 WB & EB	156
					TOTAL 0050	341

WATER MAIN INSULATION

PROJECT NUMBER	CATEGORY	STATION	OFFSET	LOCATION	SPV.0060.64 SPECIAL (64. WATER MAIN INSULATION) EACH
3080-01-40	0020	335+00'MP'	28' RT	MILLPOND RD	1
		338+00'MP'	26' RT	MILLPOND RD	1
		342+00'MP'	5' LT	MILLPOND RD	2
				TOTAL 0020	4
3080-01-40	0050	12+19'W1'		MILLPOND RD	2
		13+10'W1'		MILLPOND RD	1
		13+75'W1'		MILLPOND RD	2
		15+10'W1'		MILLPOND RD	1
		17+45'W1'		MILLPOND RD	1
		19+70'W1'		MILLPOND RD	1
		22+50'W1'		MILLPOND RD	2
		23+00'W1'		MILLPOND RD	1
		26+60'W1'		MILLPOND RD	1
		30+70'W1'		MILLPOND RD	1
		45+80'W1'		MAAHIC WAY	1
		47+85'W1'		MAAHIC WAY	1
		50+45'W1'		MAAHIC WAY	2
		51+10'W1'		MAAHIC WAY	1
		52+60'W1'		MAAHIC WAY	1
		2+00'W2'		MILLPOND RD	1
		5+75'W2'		MILLPOND RD	1
		1+60'WS1'		MILLPOND RD	2
				TOTAL 0050	23
				PROJECT 3080-01-40 TOTAL	27

3

WATER MAIN

PROJECT NUMBER	CATEGORY	STATION	OFFSET	TO	STATION	OFFSET	LOCATION	SPV.0090.50 SPECIAL (50. WATER MAIN 6-INCH) LF	SPV.0090.51 SPECIAL (51. WATER MAIN 8-INCH) LF	SPV.0090.52 SPECIAL (52. WATER MAIN 12-INCH) LF
3080-01-40	0020	326+86'MP'	24.5'RT	-	327+11'MP'	24.6'RT	MILLPOND RD	-	-	30
		328+31'MP'	25.4'RT	-	328+69'MP'	24.2'RT	MILLPOND RD	-	-	38
		338+00'MP'	26.0'RT	-			MILLPOND RD	-	16	-
		338+44'MP'	24.3'RT	-	338+52'MP'	24.3'RT	MILLPOND RD	-	8	-
		342+00'MP'	5.5'LT	-			MILLPOND RD	-	20	-
		324+76'MP'	56.8'LT	-	324+82'MP'	37.6'LT	MILLPOND RD	22	-	-
		329+27'MP'	20.0'RT	-	329+27'MP'	40.0'RT	MILLPOND RD	20	-	-
		333+51'MP'	31.1'RT	-	333+51'MP'	38.0'RT	MILLPOND RD	8	-	-
		338+44'MP'	24.3'RT	-	338+44'MP'	37.0'RT	MILLPOND RD	14	-	-
							TOTAL 0020	64	44	68

MISCELLANEOUS WATER ITEMS

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.62 SPECIAL (62. WATER UTILITY LINE OPENING) EACH
3080-01-40	0020	326+99.0'MP'	-	22.5'RT	MILLPOND RD	1
		328+47.8'MP'	-	22.5'RT	MILLPOND RD	1
					TOTAL 0020	2

WATER MAIN (CONTINUED)

PROJECT NUMBER	CATEGORY	STATION	OFFSET	TO	STATION	OFFSET	LOCATION	SPV.0090.50 SPECIAL (50. WATER MAIN 6-INCH) LF	SPV.0090.51 SPECIAL (51. WATER MAIN 8-INCH) LF	SPV.0090.52 SPECIAL (52. WATER MAIN 12-INCH) LF
3080-01-40	0050	1+00'W1'		-	4+34'W1'		MAAHIC WAY	-	-	334
		4+34'W1'		-	9+39'W1'		MAAHIC WAY	-	-	505
		9+39'W1'		-	12+58'W1'		USH 12/18 EB & WB	-	-	319
		12+58'W1'		-	14+84'W1'		MILLPOND RD	-	-	226
		14+84'W1'		-	20+17'W1'		MILLPOND RD	-	-	533
		20+17'W1'		-	25+17'W1'		MILLPOND RD	-	-	500
		25+17'W1'		-	30+17'W1'		MILLPOND RD	-	-	500
		30+17'W1'		-	31+39'W1'		MILLPOND RD	-	-	122
		31+39'W1'		-	35+17'W1'		MILLPOND RD	-	-	378
		35+17'W1'		-	35+37'W1'		MILLPOND RD	-	-	20
		35+37'W1'		-	37+64'W1'		USH 12/18 WB & EB	-	-	227
		37+64'W1'		-	38+50'W1'		MAAHIC WAY	-	-	86
		38+50'W1'		-	42+37'W1'		MAAHIC WAY	-	-	387
		42+37'W1'		-	47+37'W1'		MAAHIC WAY	-	-	500
		47+37'W1'		-	52+36'W1'		MAAHIC WAY	-	-	499
		52+36'W1'		-	57+08'W1'		MAAHIC WAY / CTH AB	-	-	472
		31+39'W1'	0'	-	31+39'W1'	71.0'RT	MILLPOND RD	-	-	71
		57+01'W1'	0'	-	57+01'W1'	37.1'RT	CTH AB - NORTH	-	-	38
		1+20'W2'		-	6+25'W2'		MILLPOND RD	-	-	505
		0+04'WS1'		-	1+79'WS1'		MILLPOND RD	-	-	175
		1+15'WS2'		-	2+45'WS2'		MAAHIC WAY	-	-	130
		343+37'MP'	33.5'RT	-	343+46'MP'	41.3'RT	MILLPOND RD	-	14	-
		0+04'W3'		-	3+49'W3'		MILLPOND RD	-	345	-
		3+49'W3'		-	3+75'W3'		MILLPOND RD	-	26	-
		4+34'W1'	0'	-	4+34'W1'	18.5'LT	MAAHIC WAY	19	-	-
		9+38'W1'	0'	-	9+38'W1'	18.5'LT	MAAHIC WAY	19	-	-
		14+84'W1'	0'	-	14+84'W1'	11.0'LT	MILLPOND RD	11	-	-
		20+17'W1'	0'	-	20+17'W1'	11.0'LT	MILLPOND RD	11	-	-
		25+17'W1'	0'	-	25+17'W1'	11.0'LT	MILLPOND RD	11	-	-
		30+17'W1'	0'	-	30+17'W1'	11.0'LT	MILLPOND RD	11	-	-
		35+17'W1'	0'	-	35+17'W1'	11.0'LT	MILLPOND RD	11	-	-
		38+01'W1'	0'	-	38+01'W1'	15.5'LT	MAAHIC WAY	16	-	-
		42+37'W1'	0'	-	42+37'W1'	18.5'LT	MAAHIC WAY	19	-	-
		47+36'W1'	0'	-	47+36'W1'	18.5'LT	MAAHIC WAY	19	-	-
		52+36'W1'	0'	-	52+36'W1'	13.0'LT	MAAHIC WAY	13	-	-
		57+08'W1'	0'	-	57+08'W1'	12.9'LT	CTH AB - NORTH	13	-	-
		6+25'W2'	0'	-	6+25'W2'	11.5'LT	MILLPOND RD	11	-	-
		3+00'W3'	0'	-	3+00'W3'	19.7'RT	MILLPOND RD	20	-	-
		343+35'MP'	48.0'RT	-	343+41'MP'	37.3'RT	MILLPOND RD	14	-	-
							TOTAL 0050	218	385	6,527
							PROJECT 3080-01-40 TOTAL	282	429	6595

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CONSTRUCTION STAKING

PROJECT NUMBER	CATEGORY	STATION	LOCATION	SPV.0060.34 SPECIAL (34. SURVEY PROJECT 3080-01-40) EACH	SPV.0060.40 SPECIAL (40. CONSTRUCTION STAKING FOR SANITARY SEWER) EACH	SPV.0060.50 SPECIAL (50. CONSTRUCTION STAKING FOR WATER MAIN) EACH
3080-01-40	0010	PROJECT-WIDE	CITY OF MADISON SANITARY SEWER	-	0.05	-
			TOTAL 0010	0	0.05	0
3080-01-40	0020	PROJECT-WIDE	CITY OF MADISON WATER MAIN	-	-	0.05
			TOTAL 0020	0	0	0.05
3080-01-40	0030	PROJECT-WIDE	CITY OF MADISON FIBER	1	-	-
			TOTAL 0030	1	0	0
3080-01-40	0040	PROJECT-WIDE	DANE COUNTY SANITARY SEWER	-	0.95	-
			TOTAL 0040	0	0.95	0
3080-01-40	0050	PROJECT-WIDE	DANE COUNTY WATER MAIN	-	-	0.95
			TOTAL 0050	0	0	0.95
			PROJECT 3080-01-40 TOTAL	1	1	1

MISCELLANEOUS ITEMS

PROJECT NUMBER	CATEGORY	LOCATION	618.0100.01 MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) (01. 3080-01-40) EACH	619.1000 MOBILIZATION EACH	642.5401 FIELD OFFICE TYPE D EACH	643.5000 TRAFFIC CONTROL EACH
3080-01-40	0010	PROJECT-WIDE	-	-	-	-
		TOTAL 0010	0	0	0	0
3080-01-40	0020	PROJECT-WIDE	0.6	0.01	0.01	0.01
		TOTAL 0020	0.6	0.01	0.01	0.01
3080-01-40	0040	PROJECT-WIDE	0.4	0.14	0.14	0.14
		TOTAL 0040	0.4	0.14	0.14	0.14
		PROJECT 3080-01-40 TOTAL	1	0.15	0.15	0.15

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FTMS CONDUIT AND WIRE

PROJECT NUMBER	CATEGORY	ROADWAY	ITEM ID	LINEAR DISTANCE	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF	671.0112 CONDUIT HDPE 1-DUCT 2-INCH LF	671.0212 CONDUIT HDPE DIRECTIONAL BORE 1-DUCT 2-INCH LF	674.0300 REMOVE CABLE LF	678.0024 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 24-CT LF
3080-01-40	0030	USH 12/18	EXCV442	-	-	-	-	-	100
			EXCV442 - PB445	450	450	-	-	-	450
			PB445 - PB447	205	205	205	-	-	205
			PB447 - CV448	475	475	-	475	-	475
			CV448	-	-	-	-	-	100
			EXCV442 - EXCV145	845	-	-	-	845	-
			EXCV145 - EXCV149	260	-	-	-	260	-
			EXCV149 - CV448	115	-	-	-	115	-
			TOTAL 0030		1,130	205	475	1,220	1,330

FTMS MISCELLANEOUS ITEMS

PROJECT NUMBER	CATEGORY	ROADWAY	670.0200.01 ITS DOCUMENTATION (01. 3080-01-40) LS	678.0500.01 COMMUNICATION SYSTEM TESTING (01. 3080-01-40) LS
3080-01-40	0030	USH 12/18	1	1
		TOTAL 0030	1	1

FTMS PULL AND VAULT

PROJECT NUMBER	CATEGORY	ROADWAY	ITEM ID	STATION	OFFSET	653.0140 PULL BOXES STEEL 24X42-INCH EACH	673.0105 COMMUNICATION VAULT TYPE 1 EACH	673.0200 TRACER WIRE MARKER POSTS EACH	678.0200 FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH	SPV.0060.09 SPECIAL (09. REMOVING COMMUNICATION VAULT) EACH
3080-01-40	0030	USH 12/18	EXCV442	-	-	-	-	-	-	4	-
			PB445	445+21'LD'	95' LT	1	-	-	-	-	-
			PB447	447+44'LD'	97' LT	1	-	-	-	-	-
			CV448	148+16'EB'	87' RT	-	1	1	1	24	-
			EXCV145	-	-	-	-	-	-	-	1
			EXCV149	-	-	-	-	-	-	-	1
			TOTAL 0030			2	1	1	1	28	2

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CLEARING AND GRUBBING

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	OFFSET	201.0105 CLEARING STA	201.0205 GRUBBING STA
3080-01-75	0010	2	394+00'MPE'	-	395+00'MPE'	RT	1	1
			529+00'NB'	-	534+00'NB'	RT	5	5
						STAGE 2 SUBTOTALS	6	6
3080-01-75	0010	3	500+00'NB'	-	502+00'NB'	LT & RT	2	2
			538+00'NB'	-	539+00'NB'	RT	1	1
			485+00'LD'	-	486+00'LD'	LT	1	1
						STAGE 3 SUBTOTALS	4	4
						TOTAL 0010	10	10

REMOVING FENCE

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	OFFSET	204.0170 REMOVING FENCE LF
3080-01-75	0010	3	500+10 'NB'	-	501+95 'NB'	RT	212
						TOTAL 0010	212

OBLITERATING OLD ROAD

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	214.0100 OBLITERATING OLD ROAD STA
3080-01-75	0010	3A	7+00'XAB'	-	11+00'XAB'	CTH AB	4
						TOTAL 0010	4

REMOVING DRAINAGE PIPES AND INLETS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER (SIZE) (01. 12-INCH) LF	REMARKS
3080-01-75	0010	2	509+10 'SB'			LT	1	-	-	24-INCH RCCP
			510+84 'SB'	-	511+61 'SB'	LT	-	2	126	
			523+90 'SB'			LT/RT	-	1	240	
			530+55 'NB'	-	531+84 'NB'	LT	-	1	126	
			532+25 'NB'	-	532+83 'NB'	LT	-	1	58	
			535+05 'NB'			LT/RT	2	-	-	15-INCH CMPS
						STAGE 2 SUBTOTALS	3	5	550	
3080-01-75	0010	3	503+00 'SB'				1	-	-	
						STAGE 3 SUBTOTALS	1	0	0	
						TOTAL 0010	4	5	550	

BASE AGGREGATE ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	371.2000.S QMP BASE AGGREGATE DENSE 1 1/4-INCH COMPACTION EACH	623.0200 DUST CONTROL SURFACE TREATMENT SY	624.0100 WATER MGAL
3080-01-75	0010	2A	505+00 'NB'	-	506+65 'NB'	CTH AB SOUTH OF MILLPOND RD	30	1,010	940	2	800	20
			394+07 'MPW'	-	395+45 'MPW'	MILLPOND RD	0	830	850	-	700	10
			506+65 'NB'	-	510+18 'NB'	CTH AB & MILLPOND RD RAB	0	4,040	3,920	2	3,500	50
			510+18 'NB	-	514+73 'NB'	CTH AB RAMP 'A' TO MILLPOND RD	0	2,700	2,760	2	2,400	30
			514+73 'NB'	-	518+84 'NB'	CTH AB SOUTH INTERCHANGE	0	2,040	4,100	-	3,500	30
			520+72 'NB'	-	526+80 'NB'	CTH AB NORTH INTERCHANGE	0	2,520	5,220	-	4,500	30
			526+80 'NB'	-	533+00 'NB'	NORTH CTH AB	0	2,570	2,620	2	2,500	30
			FRENCH DRAINS			SEE PLAN-PROFILE FOR LOCATIONS	-	-	25	-	-	-
						STAGE 2 SUBTOTALS	30	15,710	20,435	8	17,900	200
3080-01-75	0010	3A	500+11 'NB'	-	505+00 'NB'	SOUTH CTH AB TO EXISTNG	150	2,680	2,270	2	2,200	30
			533+00 'NB'	-	539+00 'NB'	NORTH CTH AB TO EXISTING / MAAHIC WAY	2	3,300	3,350	2	3,400	40
			FRENCH DRAINS			SEE PLAN-PROFILE FOR LOCATIONS	-	-	5	-	-	-
						STAGE 3 SUBTOTALS	152	5,980	5,625	4	5,600	70
						TOTAL 0010	182	21,690	26,060	12	23,500	270

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS

EARTHWORK SUMMARY (PROJECT ID 3080-01-75)

CATEGORY 0010

SUBSTAGE	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1)		SALVAGED/ UNUSABLE MATERIAL (4)	AVAILABLE MATERIAL (5)	REDUCED EBS IN FILL (9)	EXPANDED EBS BACKFILL (11)	UNEXPANDED FILL	EXPANDED FILL (13)	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT:
			CUT (2)	EBS EXCAVATION (3)			FACTOR 0.80	FACTOR 1.30		FACTOR 1.25				
STAGE 1		POND A	32325	0	0	32325	0	0	0	0	32325			
		POND A (CLAY LINER)	13275	0	0	13275	0	0	0	0	13275			
		POND B (NORTH SHELF)	48525	0	0	48525	0	0	0	0	48525			
		POND B (CLAY LINER)	10415	0	0	10415	0	0	0	0	10415			
		STAGE 1 SUBTOTALS	104540	0	0	104540	0	0	0	0	104540	0	0	
STAGE 2A		POND B (SOUTH SHELF)	54850	0	0	54850	0	0	0	0	54850			
		R-13-0370, SOUTH (EB)	0	1216	1216	-1,216	973	1,581	431	-677	-539			
		R-13-0371, NORTH (WB)	0	1387	1387	-1,387	1,110	1,803	739	-463	-924			
	505+00'NB' - 507+00'NB'	NB TO EXISTING SOUTH CTH AB	603	0	0	603	0	0	1,426	1,783	-1,180			
	505+00'SB' - 507+50'SB'	SB TO EXISTING SOUTH CTH AB	2,580	0	0	2,580	0	0	1,177	1,471	1,109			
	10+00'MR' - 13+97'MR'	CTH AB/MILLPOND RAB	733	0	0	733	0	0	16,477	20,596	-19,863			SEE MATCHLINES
	394+15.265'MPE' - 395+50'MPE'	EB - MILLPOND ROAD	2,777	0	138	2,639	0	0	490	613	2,027			
	395+50'MPW' - 396+00'MPW'	WB - MILLPOND ROAD	474	0	0	474	0	0	369	461	13			
	398+50'S5R' - 400+25'S5R'	EAST OF MILLPOND RAB	41	0	0	41	0	0	2,333	2,916	-2,875			
	509+50'NB' - 515+90'NB'	NB - MILLPOND RAB TO SOUTH CTH AB INTERCHANGE RAB	227	0	0	227	0	0	19,664	24,580	-24,353			
	510+25'SB' - 516+00'SB'	SB - MILLPOND RAB TO SOUTH CTH AB INTERCHANGE RAB	784	0	0	784	0	0	18,076	22,595	-21,811			
	50+40'S3R' - 52+50'S3R'	NB - RIGHT TURN TO RAMP 'B'	300	0	0	300	0	0	10,647	13,309	-13,009			
	10+00'SRR' - 13+97'SRR'	SOUTH CTH AB INTERCHANGE RAB	358	0	0	358	0	0	61,951	77,438	-77,080			SEE MATCHLINES
	10+00'NRR' - 13+77'NRR	NORTH CTH AB INTERCHANGE RAB	89	0	0	89	0	0	68,343	85,429	-85,340			SEE MATCHLINES
	527+00'NB' - 533+00'NB'	NB/SB - TO EXISTING NORTH CTH AB	2,947	0	0	2,947	0	0	3,894	4,868	-1,921			
		STAGE 2A SUBTOTALS	66,764	2,603	2,741	64,023	2,082	3,384	206,017	254,918	-190,895	0	0	
STAGE 3A	500+11'NB' - 505+00'NB'	NB TO EXISTING SOUTH CTH AB	2,158	0	240	1,918	0	0	488	610	1,308			
	503+48.865'SB' - 505+00'SB'	SB TO EXISTING SOUTH CTH AB	1,710	0	201	1,509	0	0	27	34	1,475			
	533+00'NB' - 538+99.56'NB'	NB/SB - TO EXISTING NORTH CTH AB	1,621	0	150	1,471	0	0	2,390	2,988	-1,517			
	485+65'LD' - 485+85'LD'	MAAHIC WAY TO NORTH CTH AB	64	0	0	64	0	0	1	1	63			
		STAGE 3A SUBTOTALS	5,553	0	591	4,962	0	0	2,906	3,633	1,330	0	0	
		PROJECT ID 3080-01-75 TOTALS	176,857	2,603	3,332	173,525	2,082	3,384	208,923	258,551	-85,026	0	0	
		TOTAL COMMON EXC	179,460											

NOTES:
(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
(2) SALVAGED/UNUSABLE MATERIAL IS INCLUDED IN CUT.
(3) EBS EXCAVATION FOR RETAINING WALLS TO BE BACKFILLED WITH BACKFILL GRANULAR GRADE 2.
(4) SALVAGED/UNUSABLE MATERIAL
(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE MATERIAL.
(9) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
(10) EXPANDED MARSH BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. MARSH BACKFILL FACTOR = 1.50. ITEM NUMBER 208.1100
(11) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = 1.30. ITEM NUMBER 208.1100
(13) EXPANDED FILL FACTOR = 1.25
DEPENDING ON SELECTIONS: EXPANDED FILL = (UNEXPANDED FILL - REDUCED MARSH - REDUCED EBS) * FILL FACTOR
(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

3

BACKFILL GRANULAR GRADE 2

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	209.2500 BACKFILL GRANULAR GRADE 2 TON
3080-01-75	0010	2B	196+34'WB'	-	198+09'WB'	STRUCTURE R-13-0371	2,330
			196+34'EB'	-	198+09'EB'	STRUCTURE R-13-0370	1,810
						TOTAL 0010	4,140

CONCRETE PAVEMENT APPROACH SLAB

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	OFFSET	LOCATION	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY
3080-01-75	0010	2B	518+66 'NB'	-	518+84 'NB'	RT	NORTH CTH AB SOUTH INTERCHANGE APPROACH	50
			518+67 'SB'	-	518+84 'SB'	LT	SOUTH CTH AB SOUTH INTERCHANGE APPROACH	30
			520+72 'NB'	-	520+90 'NB'	RT	NORTH CTH AB NORTH INTERCHANGE APPROACH	50
			520+72 'SB'	-	520+89 'SB'	LT	SOUTH CTH AB NORTH INTERCHANGE APPROACH	30
							TOTAL 0010	160

CONCRETE PAVEMENT

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	OFFSET	LOCATION	405.0100 COLORING CONCRETE WISDOT RED CY	415.0090 CONCRETE PAVEMENT 9-INCH SY	416.0512 CONCRETE TRUCK APRON 12-INCH SY
3080-01-75	0010	2B	10+00 'MR'	-	13+97 'MR'	RT	CTH AB & MILLPOND RD RAB	152	-	457
			514+73 'NB'	-	518+66 'NB'	LT/RT	CTH AB SOUTH INTERCHANGE	152	3,470	457
			520+91 'NB'	-	526+80 'NB'	LT/RT	CTH AB NORTH INTERCHANGE	142	4,465	428
							TOTAL 0010	446	7,935	1,342

TEMPORARY SHORING

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	511.1300.01 TEMPORARY SHORING (LOCATION) (01. R-13-0371) SF
3080-01-75	0010	2A	196+34 'WB'	-	198+09 'WB'	STRUCTURE R-13-0371	1,665
						TOTAL 0010	1,665

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PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	MISCELLANEOUS QUANTITIES	SHEET 472	E

ASPHALTIC PAVEMENT ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	LOWER LAYER THICHKNESS IN	UPPER LAYER THICHKNESS IN	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON
3080-01-75	0010	2B	505+00 'NB'	-	506+65 'NB'	CTH AB SOUTH OF MILLPOND RD	3.75	1.75	115	170	80	-
			394+07 'MPW	-	395+45 'MPW'	MILLPOND RD	3.75	1.75	100	150	70	-
			506+65 'NB'	-	510+18 'NB'	CTH AB & MILLPOND RD RAB	3.75	1.75	495	740	-	345
			510+18 'NB	-	514+73 'NB'	CTH AB RAMP 'A' TO MILLPOND RD	3.75	1.75	330	495	230	-
			526+80 'NB'	-	533+00 'NB'	NORTH CTH AB	3.75	1.75	345	520	245	-
								STAGE 2B SUBTOTALS	1,385	2,075	625	345
3080-01-75	0010	3B	500+11 'NB'	-	505+00 'NB'	SOUTH CTH AB TO EXISTNG CTH AB	3.75	1.75	305	455	210	-
			533+00 'NB'	-	539+00 'NB'	NORTH CTH AB TO EXISTING / MAAHIC WAY	3.75	1.75	470	705	330	-
								STAGE 3B SUBTOTALS	775	1,160	540	0
								TOTAL 0010	2,160	3,235	1,165	345

NOTES:
* TACK COAT APPLICATION RATE = 0.07 GAL/SY
** ASSUMED ASPHALT AT 112 LBS/SY/IN

DRIVEWAY ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	REMARKS
3080-01-75	0010	3B	501+97'NB'	-	502+50'NB'	SB CTH AB LT	40	15	PRIVATE ENTRANCE
			502+56'SB'	-	503+40'SB'	NB CTH AB RT	80	30	BUSINESS ENTRANCE
			399+51'S5	-	400+35'S5R'	EAST MILLPOND RD	60	-	
						TOTAL 0010	180	45	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS

ASPHALTIC FLUMES

PROJECT NUMBER	CATEGORY	STAGE	STATION	OFFSET	LOCATION	465.0315 ASPHALTIC FLUMES SY
3080-01-75	0010	2B	505+89'NB'	RT	NB CTH AB	35
			506+45'SB'	LT	SB CTH AB	40
			399+51'S5R	RT	EAST MILLPOND RD	16
			399+51'S5L	LT	EAST MILLPOND RD	20
					STAGE 2B SUBTOTALS	111
3080-01-75	0010	3B	536+65'NB'	LT	CTH AB/MAAHIC WAY	12
					STAGE 3B SUBTOTALS	12
					TOTAL 0010	123

CULVERT ITEMS

PROJECT NUMBER	CATEGORY	STAGE	*** INLET STATION	*** INLET OFFSET	*** INLET ELEV. (FT)	*** OUTLET STATION	*** OUTLET OFFSET	*** OUTLET ELEV. (FT)	SLOPE (%)	PIPE THICKNESS (IN)	LOCATION	* 521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	521.3118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.0142 CULVERT PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	522.0524 CULVERT PIPE REINFORCED CONCRETE CLASS V 24-INCH LF	* 522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1042 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH EACH	522.2334 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34X53-INCH LF	522.2634 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH EACH	* 633.5200 MARKERS CULVERT END EACH	** JOINT TIES EACH
3080-01-75	0010	2	395+33 'MPE	88.5' RT	875.41	395+33 'MPE	49.5' LT	875.90	0.36%		MILLPOND RD	-	-	-	138	-	-	2	-	-	2	12
			509+78 'NB'	77.7' RT	878.00	510+12' NB'	93.0' LT	876.95	0.60%		CTH AB	-	-	174	-	-	2	-	-	-	2	12
			520+83' NB'	115.8' LT	875.61	522+26 'NB'	170.1' RT	874.00	0.48%		CTH AB	-	-	-	-	336	2	-	-	-	2	12
			534+42' NB'	48.4' RT	875.00	535+27 'NB'	41.1' LT	874.50	0.41%		CTH AB	-	-	-	-	-	-	-	122	2	2	12
											STAGE 2 SUBTOTALS	0	0	174	138	336	4	2	122	2	8	48
3080-01-75	0010	3	502+07 'NB'	44.3' RT	890.30	502+45 'NB'	44.4' RT	888.90	3.85%	0.064	F.E. RT	2	36	-	-	-	-	-	-	-	-	-
			502+76 'SB'	39.2' LT	891.50	503+20 'SB'	40.4' LT	889.80	3.67%	0.064	P.E. LT	2	46	-	-	-	-	-	-	-	-	-
											STAGE 3 SUBTOTALS	4	82	0	0	0	0	0	0	0	0	0
											TOTAL 0010	4	82	174	138	336	4	2	122	2	8	48

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS
** NON-BID ITEM: FOR INFORMATION ONLY
*** PIPE INVERT AT END OF PIPE & STATION/OFFSET TO CENTER OF STRUCTURE

COUNTY POND DRAINAGE ITEMS

PROJECT NUMBER	CATEGORY	FROM	TO	PIPE THICKNESS	* 521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	530.0118 CULVERT PIPE CORRUGATED POLYETHYLENE 18-INCH LF	SPV.0060.25 SPECIAL (25. DEWATERING FOR COUNTY POND) EACH	SPV.0195.01 SPECIAL (01. 3-INCH CLEAR STONE) TON	REMARKS
3080-01-75	0010	DC1	- DC2	0.064	4	52	1	4.5	TWO PIPES
				TOTAL 0010	4	52	1	4.5	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS

CONCRETE CURB & GUTTER

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0580 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R LF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
3080-01-75	0010	2B	505+00 'NB'	-	506+40 'NB'	MEDIAN	-	-	-	284	-	-
			506+40 'NB'	-	507+48 'NB'	MEDIAN	-	-	285	-	-	-
			505+89 'MSE'	-	509+47 'MSE'	CTH AB 'NB' RT TURN	-	-	355	-	-	-
			506+44 'MSW'	-	510+53 'MSW'	MILLPOND RT TURN	-	-	405	-	-	-
			394+07 'MPW'	-	394+14 'MPW'	W. MILLPOND MEDIAN	-	-	-	-	-	60
			394+14 'MPW'	-	396+36 'MPW'	W. MILLPOND MEDIAN	-	-	470	-	-	-
			10+00 'MR'	-	13+97 'MR'	MILLPOND ROUNDABOUT	295	-	-	-	385	-
			398+17 'S5L'	-	398+57 'S5L'	E. MILLPOND MEDIAN	-	-	125	-	-	-
			398+57 'S5L'	-	398+64 'S5L'	E. MILLPOND MEDIAN	-	-	-	-	-	61
			506+72 'MNW'	-	511+00 'MNW'	W. MILLPOND LT	-	-	425	-	-	-
			511+00 'SB'	-	514+86 'SB'	CTH AB 'SB' LT	-	-	380	-	-	-
			509+36 'NB'	-	514+73 'NB'	CTH AB MEDIAN	-	-	1103	-	-	-
			507+42 'MNE'	-	511+73 'MNE'	E. MILLPOND RT TURN	-	-	428	-	-	-
			28+05 'SSE'	-	31+18 'SSE'	CTH AB 'NB' RT	-	-	314	-	-	-
			39+72 'SSW'	-	42+25 'SSW'	RAMP 'A' RT TURN	-	250	-	-	-	-
			514+73 'NB'	-	516+03 'NB'	CTH AB MEDIAN	-	310	-	-	-	-
			514+73'NB'	-	514+80'NB'	CTH AB 'NB' SPLITTER ISLAND	-	-	-	-	-	82
			514+80'NB'	-	516+52'NB'	CTH AB 'NB' SPLITTER ISLAND	-	288	-	-	-	-
			31+18 'SSE'	-	33+69 'SSE'	CTH AB 'NB' RT TURN TO RAMP 'B'	-	250	-	-	-	-
			51+07 'S4R'	-	51+13 'S4R'	RAMP 'A' SPLITTER ISLAND	-	-	-	-	-	68
			51+13 'S4R'	-	52+22 'S4R'	RAMP 'A' SPLITTER ISLAND	-	235	-	-	-	-
			695+12 'A'	-	696+24 'A'	RAMP 'A' LT	-	110	-	-	-	-
			20+05 'SNW'	-	21+91 'SNW'	CTH AB 'SB' LT	-	185	-	-	-	-
			10+00 'SRR'	-	13+97 'SRR'	SOUTH ROUNDABOUT	294	-	-	-	384	-
			697+25 'B'	-	698+26 'B'	RAMP 'B' LT	-	102	-	-	-	-
			10+13 'SNE'	-	12+39 'SNE'	CTH AB 'NB' RT	-	229	-	-	-	-
			518+07 'NB'	-	518+84 'NB'	MEDIAN	-	181	-	-	-	-
			20+04 'NSW'	-	21+93 'NSW'	CTH AB 'SB' LT	-	191	-	-	-	-
			520+72 'NB'	-	521+42 'NB'	MEDIAN	-	181	-	-	-	-
			10+15 'NSE'	-	11+91 'NSE'	CTH AB 'NB' RT	-	177	-	-	-	-
			996+03 'D'	-	996+80 'D'	RAMP 'D' RT	-	78	-	-	-	-
			10+00 'NRR'	-	13+77 'NRR'	NORTH ROUNDABOUT	277	-	-	-	365	-
			798+09 'C'	-	799+21 'C'	RAMP 'C' RT	-	113	-	-	-	-
			798+00 'C'	-	799+21 'C'	RAMP 'C' SPLITTER ISLAND	-	273	-	-	-	-
			799+14 'C'	-	799+21 'C'	RAMP 'C' SPLITTER ISLAND	-	-	-	-	-	68
			31+75 'MNE'	-	36+96 'MNE'	CTH AB 'NB' RT	-	523	-	-	-	-
			40+00 'NNW'	-	42+54 'NNW'	CTH AB 'SB' LT	-	248	-	-	-	-
			522+93 'SB'	-	525+88 'SB'	CTH AB 'SB' RT TURN SPLITTER ISLAND	-	455	-	-	-	-
			525+88 'SB'	-	525+95 'SB'	CTH AB 'SB' RT TURN SPLITTER ISLAND	-	-	-	-	-	56
			523+38 'NB'	-	526+16 'NB'	CTH AB 'SB' SPLITTER ISLAND	-	556	-	-	-	-
			526+16 'NB'	-	526+23 'NB'	CTH AB 'SB' SPLITTER ISLAND	-	-	-	-	-	56
			526+80 'NB'	-	533+00 'NB'	CTH AB' NB' RT	-	-	620	-	-	-
			526+84 'NB'	-	533+00 'NB'	CTH AB 'NB' LT	-	-	617	-	-	-
						STAGE 2B SUBTOTALS	866	4935	5527	284	1134	451
3080-01-75	0010	3B	503+60 'NB'	-	503+68 'NB'	MEDIAN	-	-	-	268	-	-
			503+68 'NB'	-	505+00 'NB'	MEDIAN	-	-	-	-	-	60
			533+00 'NB'	-	536+32 'NB'	CTH AB 'NB' LT	-	-	383	-	-	-
			533+00 'NB'	-	538+86 'NB'	CTH AB' NB' RT	-	-	539	-	-	-
			536+65 'NB'	-	538+90 'NB'	CTH AB 'NB' LT	-	-	264	-	-	-
						STAGE 3B SUBTOTALS	0	0	1186	268	0	60
						TOTAL 0010	866	4,935	6,713	552	1,134	511

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CONCRETE SIDEWALK & MULTI-USE PATH

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0105 ASPHALTIC SURFACE TON	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF
3080-01-75	0010	2B	505+00 'NB'	-	507+48 'NB'	MEDIAN ISLAND	260	-	77	5030	380	40
			506+18 'MSE'	-	508+40 'MSE'	SHARED PATH RT	80	-	-	-	1620	40
			506+73 'MSW'	-	509+52 'MSW'	SHARED PATH LT	110	-	-	-	2385	40
			394+07 'MPE'	-	395+09 'MPE'	SHARED PATH RT	50	20	-	-	-	-
			394+14 'MPE'	-	396+28 'MPE'	MEDIAN ISLAND	80	-	38	1520	185	40
			398+11 'S5R'	-	398+57 'S5R'	MEDIAN ISLAND	40	-	39	565	195	40
			508+14 'MNW'	-	511+94 'MNW'	SHARED PATH LT	20	-	-	-	355	20
			508+80 'MNW'	-	511+94 'MNW'	SHARED PATH LT	110	40	-	-	-	-
			509+36 'NB'	-	516+03 'NB'	MEDIAN ISLAND	525	-	-	10625	-	-
			508+42 'MNE'	-	511+25 'MNE'	SHARED PATH RT	120	50	-	-	175	20
			511+25 'NB'	-	514+52 'NB'	SHARED PATH RT	150	60	-	-	-	-
			31+00 'SSE'	-	33+19 'SSE'	SHARED PATH RT	90	40	-	-	175	20
			511+94 'SB'	-	515+15 'SB'	SHARED PATH LT	110	50	-	-	-	-
			40+00 'SSW'	-	41+59 'SSW'	SHARED PATH LT	60	20	-	-	150	20
			51+23 'S3R'	-	52+58 'S3R'	SPLITTER ISLAND	125	-	-	2490	-	-
			61+14 'S4L'	-	62+42 'S4L'	SPLITTER ISLAND	90	-	44	1555	220	40
			20+11 'SNW'	-	21+90 'SNW'	SHARED PATH LT	70	-	-	-	1600	20
			518+08 'NB'	-	518+84 'NB'	MEDIAN ISLAND	45	-	-	960	-	-
			10+35 'SNE'	-	12+39 'SNE'	SHARED PATH RT	100	-	-	-	2350	20
			20+04 'NSW'	-	21+76 'NSW'	SHARED PATH LT	70	-	-	-	1595	16
			520+72 'NB'	-	521+41 'NB'	MEDIAN ISLAND	45	-	-	960	-	-
			10+15 'NSE'	-	11+87 'NSE'	SHARED PATH RT	80	-	-	-	1900	20
			798+00 'C'	-	799+14 'C'	SPLITTER ISLAND	120	-	58	2220	290	40
			40+39 'NNW'	-	45+32 'NNW'	SHARED PATH LT	110	-	-	-	2150	36
			522+94 'SB'	-	525+88 'SB'	SPLITTER ISLAND	150	-	28	2910	140	40
			523+39 'NB'	-	526+16 'NB'	MEDIAN ISLAND	390	-	108	7380	540	40
			32+54 'NNE'	-	34+15 'NNE'	SHARED PATH RT	60	-	-	-	1300	40
						STAGE 2B SUBTOTALS	3260	280	392	36215	17705	592
3080-01-75	0010	3B										
			503+67 'NB'	-	505+00 'NB'	MEDIAN ISLAND	50	-	-	1000	-	-
						STAGE 3B SUBTOTALS	50	0	0	1000	0	0
						TOTAL 0010	3,310	280	392	37,215	17,705	592

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS

3

STORM SEWER PIPES

PROJECT NUMBER	CATEGORY	STAGE	FROM	-	TO	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	** JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
3080-01-75	0010	2	501	-	502	-	-	-	58	6	877.98	877.69	0.0050
			502	-	503	-	-	-	19	-	877.59	877.49	0.0050
			503	-	504	-	-	-	47	6	877.39	877.16	0.0050
			505	-	506	72	-	-	-	-	884.35	883.99	0.0050
			506	-	507	-	36	-	-	6	883.49	883.31	0.0050
			508	-	509	28	-	-	-	-	884.85	884.29	0.0200
			509	-	510	45	-	-	-	-	884.19	883.29	0.0200
			510	-	511	-	23	-	-	-	882.79	882.33	0.0200
			514	-	513	20	-	-	-	-	883.75	883.65	0.0050
			513	-	512	-	47	-	-	-	883.15	882.92	0.0050
			512	-	511	-	98	-	-	-	882.82	882.33	0.0050
			511	-	515	-	-	38	-	6	881.83	881.64	0.0050
			516	-	517	32	-	-	-	-	879.50	879.34	0.0050
			517	-	518	7	-	-	-	-	879.24	879.20	0.0050
			518	-	519	19	-	-	-	-	879.10	879.00	0.0050
			519	-	520	-	28	-	-	6	875.51	875.23	0.0100
			521	-	522	27	-	-	-	-	887.75	887.61	0.0050
			522	-	523	17	-	-	-	-	887.51	887.43	0.0050
			523	-	524	19	-	-	-	-	887.33	887.23	0.0050
			524	-	525	-	30	-	-	6	886.74	886.59	0.0050
			526	-	527	34	-	-	-	-	891.70	891.53	0.0050
			527	-	528	17	-	-	-	-	891.43	891.34	0.0050
			528	-	529	19	-	-	-	-	891.24	891.14	0.0050
			529	-	530	-	31	-	-	6	890.64	890.49	0.0050
			531	-	532	19	-	-	-	-	896.25	896.16	0.0050
			532	-	533	13	-	-	-	-	896.06	895.99	0.0050
			533	-	534	27	-	-	-	-	895.89	895.75	0.0050
			534	-	535	10	-	-	-	-	895.65	895.60	0.0050
			535	-	536	-	19	-	-	-	895.10	895.01	0.0050
			536	-	537	-	31	-	-	6	894.91	894.76	0.0050
			538	-	539	41	-	-	-	-	898.50	898.30	0.0050
			539	-	541	31	-	-	-	-	898.20	898.04	0.0050
			540	-	541	36	-	-	-	-	898.22	898.04	0.0050
			541	-	544	-	-	127	-	-	897.04	896.41	0.0050
			542	-	543	25	-	-	-	-	897.79	897.67	0.0050
			543	-	544	33	-	-	-	-	897.57	897.41	0.0050
			544	-	545	-	-	28	-	-	896.31	896.17	0.0050
			545	-	546	-	-	41	-	6	896.07	895.87	0.0050
			547	-	548	98	-	-	-	-	898.43	897.94	0.0050
			548	-	549	8	-	-	-	-	897.84	897.80	0.0050
			549	-	550	19	-	-	-	-	897.70	897.60	0.0050
			550	-	551	-	14	-	-	6	897.10	897.03	0.0050
			552	-	553	18	-	-	-	-	900.40	900.31	0.0050
			553	-	554	34	-	-	-	-	900.21	900.04	0.0050
			554	-	555	41	-	-	-	-	899.94	899.73	0.0050
			555	-	556	-	34	-	-	6	899.24	899.07	0.0050
PAGE 1/2 - STAGE 2 SUBTOTALS						809	391	234	124	66			

**NON-BID ITEM: FOR INFORMATION ONLY

CONTINUED ON NEXT PAGE

3

STORM SEWER PIPES (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	FROM	-	TO	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	**JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
3080-01-75	0010	2	557	-	558	23	-	-	-	-	898.47	898.35	0.0050
			558	-	560	41	-	-	-	-	898.25	898.05	0.0050
			559	-	560	40	-	-	-	-	898.25	898.05	0.0050
			560	-	561	-	-	102	-	-	897.00	896.49	0.0050
			561	-	562	-	-	33	-	-	896.39	896.22	0.0050
			562	-	566	-	-	104	-	-	896.12	895.60	0.0050
			563	-	564	19	-	-	-	-	897.02	896.93	0.0050
			564	-	565	8	-	-	-	-	896.83	896.79	0.0050
			565	-	566	19	-	-	-	-	896.69	896.60	0.0050
			566	-	567	-	-	22	-	6	895.50	895.39	0.0050
			568	-	569	26	-	-	-	-	892.88	892.75	0.0050
			569	-	570	6	-	-	-	-	892.65	892.61	0.0050
			570	-	571	-	57	-	-	-	892.11	891.83	0.0050
			571	-	572	-	6	-	-	-	891.73	891.70	0.0050
			572	-	573	-	20	-	-	-	891.60	891.50	0.0050
			573	-	574	-	29	-	-	6	891.00	890.86	0.0050
			575	-	576	39	-	-	-	-	887.00	886.81	0.0050
			576	-	577	-	30	-	-	6	886.31	886.16	0.0050
			578	-	579	35	-	-	-	-	881.00	880.89	0.0030
			579	-	580	-	18	-	-	6	880.40	880.34	0.0030
			581	-	582	20	-	-	-	-	876.70	876.64	0.0030
			582	-	584	-	50	-	-	-	876.14	875.99	0.0030
			583	-	584	20	-	-	-	-	876.59	876.49	0.0050
			584	-	585	-	-	59	-	6	875.49	875.31	0.0030
		PAGE 2/2 - STAGE 2 SUBTOTALS				296	210	320	0	30			
		STAGE 2 SUBTOTALS				1,105	601	554	124	96			
3080-01-75	0010	3	586	-	587	124				6	877.50	874.28	0.0260
		STAGE 3 SUBTOTALS				124	0	0	0	6			
		TOTAL 0010				1,229	601	554	124	102			

**NON-BID ITEM: FOR INFORMATION ONLY

STORM SEWER STRUCTURES

PROJECT NUMBER	CATEGORY	STAGE	STRUCTURE	** STATION	** OFFSET	522.1012 * APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1024 * APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0652 INLET COVERS TYPE T EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.9800.S PIPE GRATES EACH	633.5200 * MARKERS CULVERT END EACH	RIM EL	INVERT EL	*** DEPTH FT
3080-01-75	0010	2	501	505+79 'NB'	56.5' RT	-	-	-	1	-	-	-	-	-	-	-	-	1		878.00	
			502	505+79 'NB'	1.5' LT	-	-	-	-	-	1	-	-	1	-	-	-	-	887.80	877.34	9.63
			503	505+84 'SB'	1.5' RT	-	-	-	-	-	1	-	-	1	-	-	-	-	887.30	877.14	9.33
			504	505+88 'SB'	45.3' LT	-	-	-	1	-	-	-	-	-	-	-	-	1		877.13	
			505	398+18 'S5L'	21.0' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	889.69	884.18	4.68
			506	398+20 'S5R'	19.1' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	889.24	883.28	5.13
			507	398+20 'S5R'	55.1' RT	-	1	-	-	-	-	-	-	-	-	-	-	1		883.28	
			508	509+43 'NB'	26.4' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	890.63	884.68	5.12
			509	509+42 'NB'	1.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	890.56	884.03	5.70
			510	509+72 'SB'	1.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	890.30	882.58	6.72
			511	509+73 'SB'	21.7' LT	-	-	-	-	1	-	-	-	1	-	-	-	-	890.20	881.58	7.79
			512	13+67 'MR'	1.7' RT	-	-	-	-	-	-	-	1	-	1	-	-	-	889.13	882.61	5.52
			513	13+13 'MR'	1.7' RT	-	-	-	-	-	-	-	1	-	1	-	-	-	888.88	882.94	4.94
			514	12+93 'MR'	1.7' RT	-	-	-	-	-	-	-	1	-	-	1	-	-	888.91	883.58	4.16
			515	509+58 'SB'	58.7' LT	-	-	1	-	-	-	-	-	-	-	-	-	1		881.61	
			516	394+15 'MPE'	30.4' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	884.73	879.20	4.70
			517	394+15 'MPE'	1.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	885.31	879.07	5.41
			518	394+15 'MPW'	1.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	885.51	878.93	5.75
			519	394+15 'MPW'	17.7' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	885.18	875.51	8.84
			520	394+15 'MPW'	45.7' LT	-	1	-	-	-	-	-	-	-	-	-	1	1		875.23	
			521	511+25 'NB'	25.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	892.85	887.58	4.44
			522	511+25 'NB'	1.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	893.33	887.34	5.16
			523	511+47 'SB'	1.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	893.16	887.16	5.17
			524	511+47 'SB'	17.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	892.84	886.53	5.48
			525	511+47 'SB'	47.5' LT	-	1	-	-	-	-	-	-	-	-	-	-	1		886.56	
			526	512+98 'NB'	32.7' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	896.74	891.53	4.38
			527	513+00 'NB'	1.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	897.42	891.26	5.33
			528	513+19 'SB'	1.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	897.28	891.07	5.38
			529	513+19 'SB'	17.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	896.96	890.44	5.69
			530	513+19 'SB'	48.2' LT	-	1	-	-	-	-	-	-	-	-	-	-	1		890.46	
			531	514+95 'SB'	17.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	901.11	896.08	4.20
			532	514+95 'SB'	1.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	901.43	895.89	4.71
			533	514+82 'NB'	1.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	901.48	895.72	4.93
			534	514+82 'NB'	25.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	900.98	895.48	4.67
			535	51+25 'S3R'	1.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	900.78	894.89	5.06
			536	51+25 'S3R'	17.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	900.47	894.70	4.94
			537	51+23 'S3R'	48.1' RT	-	1	-	-	-	-	-	-	-	-	-	-	1		894.73	
			538	13+06 'SRR'	1.7' RT	-	-	-	-	-	-	-	1	-	1	-	-	-	903.56	898.33	4.23
			539	12+59 'SRR'	1.7' RT	-	-	-	-	-	-	-	1	-	1	-	-	-	903.25	898.03	4.22
			540	516+87 'NB'	31.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	903.55	898.05	4.67
			PAGE 1/3 - STAGE 2 SUBTOTALS			0	5	1	2	25	2	0	5	3	4	25	1	8			

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS

** STATION & OFFSET ARE TO CENTER OF STRUCTURE

*** DEPTH = RIM ELEV - TOP OF STR ELEV - COVER HT - 6 INCH ADJ RING HT

CONTINUED ON NEXT PAGE

STORM SEWER STRUCTURES (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	STRUCTURE	** STATION	** OFFSET	* 522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	* 522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0652 INLET COVERS TYPE T EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.9800.S PIPE GRATES EACH	* 633.5200 MARKERS CULVERT END EACH	RIM EL	INVERT EL	*** DEPTH FT
3080-01-75	0010	2	541	12+28 'SRR'	1.7' RT	-	-	-	-	-	-	-	1	-	1	-	-	-	903.40	896.79	5.61
			542	518+08 'SB'	21.7' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	905.27	897.63	6.81
			543	518+17 'SB'	1.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	905.56	897.40	7.33
			544	518+13 'NB'	1.5' LT	-	-	-	-	1	-	-	-	1	-	-	-	-	905.44	896.06	8.38
			545	518+16 'NB'	26.3' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	904.99	895.82	8.34
			546	518+15 'NB'	66.9' RT	-	-	1	-	-	-	-	-	-	-	-	-	1		895.84	
			547	517+02 'SB'	21.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	904.44	898.26	5.35
			548	695+21 'A'	17.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	902.97	897.67	4.47
			549	695+19 'A'	25.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	902.80	897.53	4.44
			550	695+14 'A'	43.7' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	902.45	896.89	4.73
			551	695+10 'A'	57.3' RT	-	1	-	-	-	-	-	-	-	-	-	-	1		897.00	
			552	521+40 'NB'	16.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	905.15	900.23	4.09
			553	521+40 'NB'	1.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	905.42	900.04	4.55
			554	521+38 'SB'	1.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	905.50	899.77	4.90
			555	521+64 'SB'	31.8' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	905.04	899.03	5.18
			556	521+77 'SB'	63.3' RT	-	1	-	-	-	-	-	-	-	-	-	-	1		899.04	
			557	522+47 'NB'	21.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	903.53	898.30	4.40
			558	12+28 'NRR'	1.7' RT	-	-	-	-	-	-	-	1	-	1	-	-	-	903.38	898.09	4.29
			559	12+90 'NRR'	31.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	903.08	898.08	4.17
			560	12+71 'NRR'	1.7' RT	-	-	-	-	-	-	-	1	-	1	-	-	-	903.02	896.75	5.27
			561	10+21 'NRR'	1.7' RT	-	-	-	-	-	-	-	1	1	-	-	-	-	904.27	896.14	7.13
			562	522+52 'NB'	23.0' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	904.36	895.87	7.66
			563	799+18 'C'	43.7' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	902.28	896.86	4.59
			564	799+13 'C'	25.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	902.54	896.66	5.05
			565	799+12 'C'	17.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	902.75	896.53	5.39
			566	799+12 'C'	1.5' RT	-	-	-	-	1	-	-	-	1	-	-	-	-	902.92	895.25	6.50
			567	799+12 'C'	23.3' RT	-	-	1	-	-	-	-	-	-	-	-	-	1		895.36	
			568	526+15 'NB'	24.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	898.68	892.71	5.14
			569	526+15 'NB'	1.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	899.15	892.48	5.84
			570	525+31 'SB'	1.5' RT	-	-	-	-	1	-	-	-	-	1	-	-	-	899.16	891.91	6.25
			571	525+86 'SB'	14.8' LT	-	-	-	-	1	-	-	-	-	1	-	-	-	897.50	891.52	4.98
			572	62+10 'S1L'	1.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	897.41	891.39	5.19
			573	62+11 'S1L'	18.0' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	897.01	890.75	5.43
			574	62+14 'S1L'	16.9' LT	-	-	1	-	-	-	-	-	-	-	-	-	1		890.83	
			575	528+86 'NB'	17.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	892.15	886.83	4.49
				PAGE 2/3 - STAGE 2 SUBTOTALS		0	2	3	0	26	0	0	4	3	5	22	0	5			
				STAGE 2 SUBTOTALS		0	7	4	2	51	2	0	9	6	9	47	1	13			

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS
** STATION & OFFSET ARE TO CENTER OF STRUCTURE
*** DEPTH = RIM ELEV - TOP OF STR ELEV - COVER HT - 6 INCH ADJ RING HT

CONTINUED ON NEXT PAGE

3

STORM SEWER STRUCTURES (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	STRUCTURE	** STATION	** OFFSET	522.1012 * APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1024 * APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0652 INLET COVERS TYPE T EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.9800.S PIPE GRATES EACH	633.5200 * MARKERS CULVERT END EACH	RIM EL	INVERT EL	*** DEPTH FT
3080-01-75	0010	2	576	528+86 'NB'	21.2' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	892.08	886.10	5.15
			577	528+86 'NB'	51.2' LT	-	1	-	-	-	-	-	-	-	-	-	-	1		886.13	
			578	531+36 'NB'	17.5' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	886.01	880.83	4.35
			579	531+36 'NB'	17.5' LT	-	-	-	-	1	-	-	-	-	-	1	-	-	886.02	880.19	5.00
			580	531+36 'NB'	35.5' LT	-	1	-	-	-	-	-	-	-	-	-	-	1		880.31	
			581	534+13 'NB'	28.3' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	881.83	876.53	4.47
			582	534+35 'NB'	29.9' RT	-	-	-	-	-	-	1	-	-	-	1	-	-	881.81	875.93	5.05
			583	534+20 'NB'	19.5' LT	-	-	-	-	-	-	1	-	-	-	1	-	-	882.00	875.34	5.83
			584	534+39 'NB'	19.5' LT	-	-	-	-	1	-	-	-	1	-	-	-	-	882.02	875.24	5.61
			585	534+88 'NB'	42.4' LT	-	-	1	-	-	-	-	-	-	-	-	-	1		875.28	
				PAGE 3/3 - STAGE 2 SUBTOTALS		0	2	1	0	5	0	2	0	1	0	6	0	3			
				STAGE 2 SUBTOTALS		0	9	5	2	56	2	2	9	7	9	53	1	16			
3080-01-75	0010	3	586	536+41 'NB'	32.5' RT	-	-	-	-	1	-	-	-	-	1	-	-	-	882.79	877.33	4.63
			587	535+60 'NB'	59.1' LT	1	-	-	-	-	-	-	-	-	-	-	-	1		874.16	
				STAGE 3 SUBTOTALS		1	0	0	0	1	0	0	0	0	1	0	0	1			
				TOTAL 0010		1	9	5	2	57	2	2	9	7	10	53	1	17			

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS
** STATION & OFFSET ARE TO CENTER OF STRUCTURE
*** DEPTH = RIM ELEV - TOP OF STR ELEV - COVER HT - 6 INCH ADJ RING HT

3

PIPE UNDERDRAIN

PROJECT NUMBER	CATEGORY	STAGE	BEGIN STATION	BEGIN OFFSET	BEGIN EL	BEGIN STRUCTURE NO.	END STATION	END OFFSET	END EL	END STRUCTURE NO.	LOCATION	310.0110 BASE AGGREGATE OPEN-GRADED TON	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY
3080-01-75	0010	2	12+93 'MR'	RT	884.62	514	13+67 'MR'	RT	884.84	512	MILLPOND RAB	22	312	156
			13+67 'MR'	RT	884.84	512	13+13 'MR'	RT	884.59	513	MILLPOND RAB	4	52	26
			503+03 'SB'	LT		CAP REQ'D	394+15 'MPE'	RT	880.40	516	CTH AB / MILLPOND RD	17	243	122
			509+73 'SB'	LT	885.87	511	394+15 'MPW	LT	880.85	519	CTH AB / MILLPOND RD	21	301	151
			511+47 'SB'	LT	888.51	524	509+73 'SB'	LT	885.87	511	CTH AB	11	162	81
			513+19 'SB'	LT	892.63	529	511+47 'SB'	LT	888.51	524	CTH AB	12	169	85
			514+95 'SB'	LT	897.29	531	513+19 'SB'	LT	892.63	529	CTH AB	12	173	87
			509+43 'NB'	RT	886.30	508	398+18 'S5L'	LT	885.36	505	CTH AB	6	83	42
			511+25 'NB'	RT	888.52	521	509+43 'NB'	RT	886.30	508	CTH AB	13	178	89
			512+98 'NB'	RT	892.41	526	511+25 'NB'	RT	888.52	521	CTH AB	12	177	89
			514+77 'NB'	RT	896.64	536	512+98 'NB'	RT	892.41	526	CTH AB	13	191	96
			697+56 'B'	RT		CAP REQ'D	514+77 'NB'	RT	896.64	536	CTH AB / RAMP B	12	169	85
			516+54 'NB'	RT		CAP REQ'D	514+82 'NB'	RT	897.15	534	CTH AB	10	147	74
			514+95 'SB'	LT	897.29	531	695+14 'A'	RT	898.63	550	CTH AB / RAMP A	16	233	117
			696+24 'A'	RT		CAP REQ'D	695+21 'A'	RT	899.14	548	RAMP A	7	93	47
			518+08 'SB'	LT	901.44	542	517+02 'SB'	LT	900.61	547	CTH AB	8	120	60
			518+83 'SB'	LT		CAP REQ'D	518+08 'SB'	LT	901.44	542	CTH AB	4	62	31
			518+16 'NB'	RT	901.16	545	516+87 'NB'	RT	899.72	540	CTH AB	11	159	80
			518+16 'NB'	RT	901.16	545	518+83 'NB'	RT		CAP REQ'D	CTH AB	4	63	32
			12+28 'SRR'	RT	899.57	541	13+06 'SRR'	RT	899.73	538	SOUTH RAB	22	308	154
			13+06 'SRR'	RT	899.73	538	12+59 'SRR'	RT	899.42	539	SOUTH RAB	3	45	23
			520+72 'NB'	LT		CAP REQ'D	521+64 'NB'	RT	901.21	555	CTH AB	5	68	34
			521+64 'NB'	RT	901.21	555	522+52 'NB'	RT	900.53	562	CTH AB	7	105	53
			520+72 'SB'	LT		CAP REQ'D	521+40 'SB'	LT	901.32	552	CTH AB	4	63	32
			521+40 'SB'	LT	901.32	552	522+47 'SB'	LT	899.70	557	CTH AB	9	122	61
			12+28 'NNR	RT	899.55	558	10+21 'NNR'	RT	900.44	561	NORTH RAB	14	200	100
			10+21 'NNR	RT	900.44	561	12+71 'NNR'	RT	899.19	560	NORTH RAB	9	122	61
			12+28 'NNR	RT	899.55	558	12+71 'NNR'	RT	899.19	560	NORTH RAB	3	42	21
			523+36 'NB'	LT		CAP REQ'D	523+26 'SB'	RT	899.25	559	NORTH RAB	4	61	31
			523+13 'NB'	RT		CAP REQ'D	799+12 'C'	LT	898.92	565	CTH AB / RAMP C	10	144	72
			799+18 'C'	LT	898.45	563	526+15 'NB'	RT	894.85	568	CTH AB / RAMP C	32	448	224
			522+92 'NB'	LT		CAP REQ'D	525+86 'SB'	LT	893.67	571	CTH AB	17	242	121
			522+57 'SB'	LT		CAP REQ'D	525+90 'SB'	LT	893.18	573	CTH AB	13	186	93
			525+90 'SB'	LT	893.18	573	528+86 'NB'	LT	887.75	576	CTH AB	15	211	106
			528+86 'NB'	LT	887.75	576	531+36 'NB'	LT	881.69	579	CTH AB	18	250	125
			531+36 'NB'	LT	881.69	579	534+20 'NB'	LT	877.68	583	CTH AB	20	289	145
			535+98 'NB'	LT		CAP REQ'D	534+39 'NB'	LT	877.69	584	CTH AB	12	171	86
			526+15 'NB'	RT	894.85	568	528+86 'NB'	RT	887.82	575	CTH AB	19	273	137
			528+86 'NB'	RT	887.82	575	531+36 'NB'	RT	881.68	578	CTH AB	18	250	125
			531+36 'NB'	RT	881.68	578	534+13 'NB'	RT	877.50	581	CTH AB	19	272	136
			536+41 'NB'	RT	878.46	586	534+35 'NB'	RT	877.48	582	CTH AB	13	183	92
											STAGE 2 SUBTOTALS	501	7142	3582
3080-01-75	0010	3	538+86 'NB'	RT		CAP REQ'D	536+41 'NB'	RT	878.46	586	CTH AB	16	227	114
											STAGE 3 SUBTOTALS	16	227	114
											TOTAL 0010	517	7,369	3,696

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EROSION CONTROL ITEMS

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	645.0120 GEOTEXTILE TYPE HR SY
3080-01-75	0010	695+12'A'	-	696+24'A'	RAMP A	-	-	-	-	-	-	3	3	-	-	-	-
		798+05'C'	-	799+21'C'	RAMP C	-	-	-	-	-	-	3	3	-	-	-	-
		500+11'NB'	-	503+50'NB'	CTH AB, LT & RT	-	-	-	-	495	-	-	-	-	100	4	-
		503+50'NB'	-	527+06'NB'	NB CTH AB, RT	-	-	290	290	1,679	-	24	24	1	40	8	-
		527+06'NB'	-	539+00'NB'	CTH AB, LT & RT	95	-	-	-	2,487	195	9	9	2	70	10	189
		503+50'SB'	-	526+22'SB'	SB CTH AB, LT	56	-	-	-	1,278	1,217	24	24	-	70	-	155
		485+64'LD'	-	486+28'LD'	MAAHIC WAY	-	-	-	-	58	-	-	-	-	-	-	-
		394+07'MPE'	-	396+33'MPE'	MILLPOND RD	-	24	-	-	530	174	4	4	-	10	8	55
					COUNTY POND	68	-	-	-	-	45	-	-	-	-	8	70
					SUBTOTALS TOTAL 0010	219	24	290	290	6,527	1,631	67	67	3	290	38	469
					UNDISTRIBUTED (25%)	51	6	70	70	1,633	409	17	17	1	80	10	111
					TOTAL 0010	270	30	360	360	8,160	2,040	84	84	4	370	48	580

EROSION CONTROL MOBILIZATION

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
3080-01-75	0010	2	CTH AB	2	2
	0010	3	CTH AB	2	2
			TOTAL 0010	4	4

FINISHING ITEMS

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0205 FERTILIZER TYPE A CWT	630.0110 SEEDING MIXTURE NO. 10 LB	630.0120 SEEDING MIXTURE NO. 20 LB	630.0130 SEEDING MIXTURE NO. 30 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
3080-01-75	0010	500+11'NB'	-	503+50'NB'	CTH AB, LT & RT	971	476	0.8	8	0	12	35	260
		503+50'NB'	-	527+06'NB'	NB CTH AB, RT	15,574	12,983	9.8	62	237	39	420	3,148
		527+06'NB'	-	539+00'NB'	CTH AB, LT & RT	9,795	7,114	6.2	56	0	102	264	1,980
		503+50'SB'	-	526+22'SB'	SB CTH AB, LT	13,452	10,957	8.5	46	213	39	363	2,719
		485+64'LD'	-	486+28'LD'	MAAHIC WAY	67	9	0.0	0	0	1	2	13
		394+07'MPE'	-	396+33'MPE'	MILLPOND RD	3,031	2,501	1.9	17	36	8	82	613
					SUBTOTALS TOTAL 0010	42,890	34,040	27	189	486	201	1,166	8,733
					UNDISTRIBUTED (25%)	10,720	8,510	8	46	124	49	294	2,187
					TOTAL 0010	53,610	42,550	35	235	610	250	1,460	10,920

PERMANENT SIGNING - TYPE I

PROJECT NUMBER	CATEGORY	SIGN NUMBER	SIGN CODE	SIZE (INCH)	SIZE (INCH)	MESSAGE	637.1220 SIGNS TYPE I REFLECTIVE SH SF	REMARKS
3080-01-75	0010	15-01	E6-54A	84	102	WEST 12/18	59.50	OVERHEAD, S-13-561
		15-02	E6-54A	84	84	AB	49.00	OVERHEAD, S-13-561
		15-03	E6-54R	108	102	EAST 12/18	76.50	OVERHEAD, S-13-561
		15-15	E6-54L	96	102	WEST 12/18 ONLY	68.00	OVERHEAD, S-13-563
		15-16	E6-52	144	108	WEST 12/18 AB MADISON	108.00	OVERHEAD, S-13-563
		16-31	E6-52	168	108	EAST 12/18 AB MCFARLAND	126.00	OVERHEAD, S-13-563
		17-12	E6-54A	120	120	EAST 12/18 AB MCFARLAND	100.00	OVERHEAD, S-13-565
		17-13	E6-54R	96	102	WEST 12/18 ONLY	68.00	OVERHEAD, S-13-565
						TOTAL 0010	655	

MISCELLANEOUS ITEMS

PROJECT NUMBER	CATEGORY	LOCATION	108.4300 RBC PROGRESS SCHEDULE EACH	213.0100.01 FINISHING ROADWAY (PROJECT) (01. 3080-01-75) EACH	618.0100.01 MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) (01. 3080-01-75) EACH	619.1000 MOBILIZATION EACH	642.5401 FIELD OFFICE TYPE D EACH	643.5000 TRAFFIC CONTROL EACH	SPV.0060.39 SPECIAL (39. UTILITY LINE OPENING (ULO)) EACH
3080-01-75	0010	PROJECT-WIDE	0.45	1	1	0.30	0.30	0.30	5
		TOTAL 0010	0.45	1	1	0.30	0.30	0.30	5

CLAY LINER

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	640.1303.S POND LINER CLAY CY
3080-01-75	0010	1	POND A	13,280
		2	POND B	10,420
		3	COUNTY POND	150
			TOTAL 0010	23,850

GEOGRID

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	645.0220 GEOGRID TYPE SR SY
3080-01-75	0010	UNDISTRIBUTED				3,800
					TOTAL 0010	3,800

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PERMANENT SIGNING - TYPE II

PROJECT NUMBER	CATEGORY	SIGN NUMBER	SIGN CODE	SIZE (INCH)	SIZE (INCH)	MESSAGE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
3080-01-75	0010	12-06	R4-7	24	30	STAY RIGHT	-	1	-	-	-	-	5.00	-	-	
		12-07	R3-5X	42	48	LEFT ONLY ARROW	-	-	-	-	-	-	14.00	-	-	OVERHEAD, S-13-560
		12-08	R3-6W	42	48	ARROW SYMBOL	-	-	-	-	-	-	14.00	-	-	OVERHEAD, S-13-560
		12-09	R5-1A	36	24	WRONG WAY	-	1	-	-	-	-	6.00	-	-	
		12-10	R2-1	24	30	SL 30	-	-	-	-	-	-	5.00	-	-	BANDED TO PROPOSED LIGHT POLE
		12-11	R5-1	30	30	DO NOT ENTER	-	1	-	-	-	-	6.25	-	-	
		13-01	W6-1	36	36	DIV HWY AD SYMBOL	-	-	1	-	-	-	-	-	9.00	
		13-02	W2-6	30	30	CIRC INTERS SIGN	-	-	1	-	-	2	-	-	6.25	
		13-03	W13-1	18	18	ADV SL 15 MPH	-	-	-	-	-	-	-	-	2.25	
		13-04	R4-7	24	30	KEEP RIGHT	-	1	-	-	-	-	5.00	-	-	
		13-05	R5-1A	36	24	WRONG WAY	-	1	-	-	-	-	6.00	-	-	
		13-06	R5-1	30	30	DO NOT ENTER	-	1	-	-	-	-	6.25	-	-	
		13-07	W6-3	36	36	TWO-WAY TRAFF SYMBOL	-	-	1	-	-	-	-	-	9.00	
		14-01	D1-1	84	15	MILLPOND RD	-	2	-	-	-	-	8.75	-	-	
		14-02	R3-6X	42	48	ARROW SYMBOL	-	-	-	-	-	-	14.00	-	-	OVERHEAD, S-13-559
		14-03	R3-6R	42	48	ARROW SYMBOL	-	-	-	-	-	-	14.00	-	-	OVERHEAD, S-13-559
		14-04	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		14-05	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		14-06	W14-1	30	30	DEAD END	-	-	1	-	-	-	-	-	6.25	
		14-07	W5-56	18	18	END OF ROAD MARKER	-	1	-	-	-	-	-	2.25	-	
		14-08	W5-56	18	18	END OF ROAD MARKER	-	1	-	-	-	-	-	2.25	-	
		14-09	W5-56	18	18	END OF ROAD MARKER	-	1	-	-	-	-	-	2.25	-	
		14-10	R4-7	24	30	STAY RIGHT	-	1	-	-	-	-	5.00	-	-	
		14-11	R1-2	36	31	YIELD	-	-	1	-	-	2	3.88	-	-	
		14-12	R1-2	36	31	YIELD	-	-	1	-	-	2	3.88	-	-	
		14-13	R6-1R	36	12	ONE WAY RIGHT ARROW	-	-	-	-	-	-	3.00	-	-	
		14-14	R6-4B	60	24	DIRRECTIONAL ARROW	-	-	2	-	-	-	10.00	-	-	
		14-15	R6-1R	36	12	ONE WAY RIGHT ARROW	-	-	-	-	-	-	3.00	-	-	
		14-16	R6-4B	60	24	DIRRECTIONAL ARROW	-	-	2	-	-	-	10.00	-	-	
		14-17	D1-1	36	18	AB ARROW	-	1	-	-	-	-	4.50	-	-	
		14-18	M1-5A	24	24	AB	-	-	1	-	-	-	4.00	-	-	
		14-19	J1-2	48	39	J PANEL	-	-	1	-	-	-	13.00	-	-	
		14-20	D1-1	84	15	MILLPOND RD	-	2	-	-	-	-	8.75	-	-	
		14-21	R1-2	36	31	YIELD	-	-	1	-	-	2	3.88	-	-	
		14-22	R1-2	36	31	YIELD	-	-	1	-	-	2	3.88	-	-	
		14-23	D1-1	78	15	MILLPOND RD	-	2	-	-	-	-	8.13	-	-	
		14-24	R1-2	36	31	YIELD	-	-	1	-	-	2	3.88	-	-	
		14-25	R1-2	36	31	YIELD	-	-	1	-	-	2	3.88	-	-	
		14-26	R6-1R	36	12	ONE WAY RIGHT ARROW	-	-	-	-	-	-	3.00	-	-	
		14-27	R6-4B	60	24	DIRRECTIONAL ARROW	-	-	2	-	-	-	10.00	-	-	
		14-28	R6-1R	36	12	ONE WAY RIGHT ARROW	-	-	-	-	-	-	3.00	-	-	
		14-29	R6-4B	60	24	DIRRECTIONAL ARROW	-	-	2	-	-	-	10.00	-	-	
		14-30	D1-1	36	18	AB ARROW	-	1	-	-	-	-	4.50	-	-	
		14-31	M1-5A	24	24	AB	-	-	-	-	-	-	4.00	-	-	
		15-04	R3-8 A A R	54	30	LANE CONTROL	-	-	2	-	-	-	11.25	-	-	
						PAGE 1/3 - SUBTOTALS	0	20	22	0	0	18	250.42	6.75	32.75	

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PERMANENT SIGNING - TYPE II (CONTINUED)

PROJECT NUMBER	CATEGORY	SIGN NUMBER	SIGN CODE	SIZE (INCH)	SIZE (INCH)	MESSAGE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
3080-01-75	0010	15-05	R3-8 A A R	54	30	LANE CONTROL	-	-	-	-	-	-	11.25	-	-	BANDED TO S-13-561
		15-06	W12-1D	24	24	DOUBLE DOWN ARROWS	1	-	-	-	-	-	4.00	-	-	
		15-07	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		15-08	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		15-09	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		15-10	D1-2	60	30	EAST 12/18	-	2	-	-	-	-	12.50	-	-	
		15-11	R6-1R	36	12	ONE WAY RIGHT ARROW	-	-	-	-	-	-	3.00	-	-	
		15-12	R6-4B	60	24	DIRRECTIONAL ARROW	-	2	-	-	-	-	10.00	-	-	
		15-13	D1-3	90	54	WEST 12/18 AB	-	-	-	2	-	-	33.75	-	-	
		15-16	R3-8 B E	36	30	ARROW SYMBOL	-	-	-	-	-	-	7.50			BANDED TO S-13-563
		15-17	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		15-18	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		15-19	R6-4B	60	24	DIRRECTIONAL ARROW	-	2	-	-	-	-	10.00	-	-	
		15-20	R6-1R	36	12	ONE WAY RIGHT ARROW	-	-	-	-	-	-	3.00	-	-	
		15-21	R3-1	24	24	NO RIGHT TURN	-	1	-	-	-	-	4.00	-	-	
		15-22	R5-1	30	30	DO NOT ENTER	-	1	-	-	-	-	6.25	-	-	
		15-23	W12-1D	24	24	DOUBLE DOWN ARROWS	1	-	-	-	-	-	-	-	4.00	
		15-24	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		15-25	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		15-26	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		15-27	R6-1R	36	12	ONE WAY RIGHT ARROW	-	-	-	-	-	-	3.00	-	-	
		15-28	R6-4B	60	24	DIRRECTIONAL ARROW	-	2	-	-	-	-	10.00	-	-	
		15-29	D1-3	66	48	EAST 12/18 AB	-	-	-	2	-	-	22.00	-	-	
		15-30	M1-5A	24	24	AB	-	1	-	-	-	-	4.00	-	-	
		16-01	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		16-02	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		16-03	R6-1R	36	12	ONE WAY RIGHT ARROW	-	-	-	-	-	-	3.00	-	-	
		16-04	R6-4B	60	24	DIRRECTIONAL ARROW	-	2	-	-	-	-	10.00	-	-	
		16-05	R3-1	24	24	NO RIGHT TURN	-	1	-	-	-	-	4.00	-	-	
		16-06	R5-1	30	30	DO NOT ENTER	-	1	-	-	-	-	6.25	-	-	
		16-07	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		16-08	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		16-09	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		16-10	R6-1R	36	12	ONE WAY RIGHT ARROW	-	-	-	-	-	-	3.00	-	-	
		16-11	R6-4B	60	24	DIRRECTIONAL ARROW	-	2	-	-	-	-	10.00	-	-	
		16-12	D1-5	90	66	WEST 12/18 AB MAAHIC WAY	-	-	-	-	2	-	41.25	-	-	
		16-13	W1-1L	36	36	LEFT ARROW	-	-	1	-	-	-	-	-	9.00	
		16-14	W13-1	18	18	ADV SL 25 MPH	-	-	-	-	-	-	-	-	2.25	
		16-15	M1-5A	24	24	AB	-	1	-	-	-	-	4.00	-	-	
		16-16	W1-8	18	24	CHEVRON	-	1	-	-	-	-	-	-	3.00	
		16-17	W1-8	18	24	CHEVRON	-	1	-	-	-	-	-	-	3.00	
		16-18	W1-8	18	24	CHEVRON	-	1	-	-	-	-	-	-	3.00	
		16-19	R5-1A	36	24	WRONG WAY	-	-	-	-	-	-	6.00	-	-	ON SAME POST AS SIGN CODE 16-15
		16-20	R5-1	30	30	DO NOT ENTER	-	1	-	-	-	-	6.25	-	-	
		16-21	W6-3	36	36	TWO-WAY ARROW	-	-	1	-	-	-	-	-	9.00	
						PAGE 2/3 - SUBTOTALS	2	35	2	4	2	26	288.44	0	33.25	

CONTINUED ON NEXT PAGE

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PERMANENT SIGNING - TYPE II (CONTINUED)

PROJECT NUMBER	CATEGORY	SIGN NUMBER	SIGN CODE	SIZE (INCH)	SIZE (INCH)	MESSAGE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
3080-01-75	0010	16-22	W12-1D	24	24	DOUBLE DOWN ARROW	1	-	-	-	-	-	-	-	4.00	
		16-23	R4-7	24	30	STAY RIGHT	-	1	-	-	-	-	5.00	-	-	
		16-24	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		16-25	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		16-26	R1-2	36	31	YIELD	-	1	-	-	-	2	3.88	-	-	
		16-27	D1-2	60	30	WEST 12/18	-	2	-	-	-	-	12.50	-	-	
		28-28	R6-1R	36	12	ONE WAY RIGHT ARROW	-	-	-	-	-	-	3.00	-	-	
		28-29	R6-4B	60	24	DIRRECTIONAL ARROW	-	2	-	-	-	-	10.00	-	-	
		16-30	D1-3	78	30	EAST 12/18 AB	-	2	-	-	-	-	16.25	-	-	
		17-01	W1-1R	36	36	RIGHT TURN	-	-	1	-	-	-	-	-	9.00	
		17-02	W13-1	18	18	ADV SL 25 MPH	-	-	-	-	-	-	-	-	2.25	
		17-03	W1-8	18	24	CHEVRON	-	1	-	-	-	-	-	-	3.00	
		17-04	W1-8	18	24	CHEVRON	-	1	-	-	-	-	-	-	3.00	
		17-05	W1-8	18	24	CHEVRON	-	-	-	-	-	-	-	-	3.00	
		17-06	W1-8	18	24	CHEVRON	-	-	-	-	-	-	-	-	3.00	
		17-07	J1-2	48	39	J PANEL	-	-	1	-	-	-	13.00	-		
		17-08	W2-6	30	30	CIRC INTERS SIGN	-	-	1	-	-	-	-	-	6.25	
		17-09	W13-1	18	18	ADV SL 15 MPH	-	-	-	-	-	-	-	-	2.25	
		17-10	R3-8 A R	36	30	DIRRECTIONAL ARROW	-	-	-	-	-	-	7.50	-	-	BANDED TO S-13-565
		18-01	D1-2	84	24	MAAHIC WAY / LANDFILL DR	-	-	2	-	-	-	14.00	-	-	
		18-02	W1-8	18	24	CHEVRON	-	1	-	-	-	-	-	-	3.00	
		18-03	W1-8	18	24	CHEVRON	-	1	-	-	-	-	-	-	3.00	
		18-04	W1-8	18	24	CHEVRON	-	1	-	-	-	-	-	-	3.00	
		18-05	W1-8	18	24	CHEVRON	-	1	-	-	-	-	-	-	3.00	
		18-06	W1-8	18	24	CHEVRON	-	1	-	-	-	-	-	-	3.00	
		18-07	W1-8	18	24	CHEVRON	-	1	-	-	-	-	-	-	3.00	
		18-08	W1-8	18	24	CHEVRON	-	1	-	-	-	-	-	-	3.00	
		18-09	R2-1	24	30	SL 45 MPH	-	1	-	-	-	-	5.00	-	-	
		18-10	W1-1L	36	36	LEFT TURN	-	-	1	-	-	-	-	-	9.00	
		18-11	W13-1	18	18	ADV SL 25 MPH	-	-	-	-	-	-	-	-	2.25	
		18-12	W1-8	18	24	CHEVRON	-	-	-	-	-	-	-	-	3.00	
		18-13	W1-8	18	24	CHEVRON	-	-	-	-	-	-	-	-	3.00	
		18-14	R1-1	30	30	STOP SIGN	-	1	-	-	-	-	6.25	-	-	
		18-15	W1-8	18	24	CHEVRON	-	-	-	-	-	-	-	-	3.00	
		18-16	W1-8	18	24	CHEVRON	-	-	-	-	-	-	-	-	3.00	
		18-17	W1-8	18	24	CHEVRON	-	-	-	-	-	-	-	-	3.00	
		18-18	W1-8	18	24	CHEVRON	-	-	-	-	-	-	-	-	3.00	
						PAGE 3/3 - SUBTOTALS	1	21	6	0	0	6	104.14	0.00	86.00	
						TOTAL 0010	3	76	30	4	2	50	643.00	6.75	152.00	

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PAVEMENT MARKING ITEMS

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH (SOLID WHITE) LF	646.1020 MARKING LINE EPOXY 4-INCH (SOLID YELLOW) LF	646.1020 MARKING LINE EPOXY 4-INCH (SKIP WHITE) LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH (SOLID WHITE) LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH (SOLID YELLOW) LF	646.3020 MARKING LINE EPOXY 8-INCH (SKIP WHITE) LF	646.3020 MARKING LINE EPOXY 8-INCH (SKIP WHITE) LF	646.5020 MARKING ARROW EPOXY 1 (WHITE) EACH	646.5020 MARKING ARROW EPOXY 2 (WHITE) EACH	646.5020 MARKING ARROW EPOXY 3 (WHITE) EACH	646.5020 MARKING ARROW EPOXY 2R (WHITE) EACH	646.5020 MARKING ARROW EPOXY 3R (WHITE) EACH	646.5020 MARKING ARROW EPOXY 6R (WHITE) EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH (WHITE) LF	646.6320 MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (WHITE) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (YELLOW) LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) LF	646.8120 MARKING CURB EPOXY (YELLOW) LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
3080-01-75	0010	695+12'A'	-	696+24'A'	RAMP 'A'	80	-	-	61	90	242	-	-	-	-	-	-	-	-	-	-	-	71	-	-
		697+12'B'	-	698+26'B'	RAMP 'B'	-	-	-	50	82	-	-	-	-	-	-	-	-	-	-	-	-	34	-	-
		798+05'C'	-	799+21'C'	RAMP 'C'	90	-	-	74	95	251	-	-	-	-	-	-	-	-	-	-	-	69	-	-
		996+03'D'	-	996+72'D'	RAMP 'D'	-	-	-	38	58	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-
		486+21'LD'	-	486+58'LD'	MAAHIC WAY	-	74	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-	-	-	-
		495+10'NB'	-	544+00'NB'	CTH AB NB	2666	7520	257	-	-	1014	60	5	4	3	-	1	-	-	-	-	132	235	96	36	2
		500+07'SB'	-	528+92'SB'	CTH AB SB	1170	2207	75	-	-	626	45	1	1	-	-	-	-	-	-	-	-	-	129	10	-
		507+53'NB'	-	509+45'NB'	CTH AB RAB AT MILLPOND	-	-	-	-	-	341	181	1	1	2	-	-	-	-	96	-	-	-	-	-	-
		516+07'NB'	-	518+17'NB'	CTH AB RAB AT EB RAMPS	-	-	-	-	-	226	109	1	-	1	-	-	-	-	104	-	-	-	-	-	-
		521+48'NB'	-	523+47'NB'	CTH AB RAB AT WB RAMPS	-	-	-	-	-	292	192	1	1	2	-	-	-	-	90	-	-	-	-	-	-
		394+07'MP'		396+33'MP'	MILLPOND RD	206	757	30	-	-	18	215	-	-	-	1	-	1	-	-	42	-	164	20	2
					ITEM SUBTOTALS	4212	10558	362	223	325	3010	802	9	7	8	1	1	1	26	290	174	235	615	66	4
					TOTAL 0010		15,132			548		3,812			27				26	290		409	615	66	4

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LIGHTING - PULL BOXES

PROJECT NUMBER	CATEGORY	STAGE	DESCRIPTION	STATION	OFFSET	LOCATION	653.0140 PULL BOXES STEEL 24X42-INCH EACH
3080-01-75	0010	3	PB17	393+56.07 'MP'	32.5' RT	MILLPOND RD	1
			PB18	395+63.97 'MP'	2.5' FOC	MILLPOND RD	1
			PB19	395+55.81 'MP'	29.9' RT	MILLPOND RD	1
			PB20	506+66.25 'NB'	2.5' FOC	CTH AB	1
			PB22	506+70.51 'NB'	2.5' FOC	CTH AB	1
			PB23	508+44.33 'NB'	2.5' FOC	CTH AB	1
			PB24	508+60.50 'NB'	2.5' FOC	CTH AB	1
			PB25	510+65.69 'NB'	2.5' FOC	CTH AB	1
			PB26	511+43.91 'NB'	2.5' FOC	CTH AB	1
			PB27	512+41.48 'NB'	2.5' FOC	CTH AB	1
			PB28	513+07.66 'NB'	2.5' FOC	CTH AB	1
			PB29	514+01.41 'NB'	2.5' FOC	CTH AB	1
			PB30	514+50.69 'NB'	2.5' FOC	CTH AB	1
			PB31	515+40.02 'NB'	2.5' FOC	CTH AB	1
			PB32	515+47.47 'NB'	7.9' LT	CTH AB	1
			PB33	515+46.62 'NB'	2.5' FOC	CTH AB	1
			PB34	516+88.09 'NB'	2.5' FOC	CTH AB	1
			PB35	695+45.37 'A'	2.5' FOC	RAMP A	1
			PB36	695+58.24 'A'	26.7' RT	RAMP A	1
			PB39	516+97.02 'NB'	100.7' RT	CTH AB	1
			PB40	697+91.77 'NB'	5.1' LT	CTH AB	1
			PB41	517+68.77 'NB'	2.5' FOC	CTH AB	1
			PB42	518+68.67 'NB'	43.87' RT	CTH AB	1
			PB43	518+74.44 'NB'	40.8' LT	CTH AB	1
			PB44	518+34.90 'NB'	2.5' FOC	CTH AB	1
			PB45	695+70.06 'A'	2.5' FOC	RAMP A	1
			PB46	520+84.89 'NB'	48.9' RT	CTH AB	1
			PB47	520+77.37 'NB'	41.2' LT	CTH AB	1
			PB49	521+55.15 'NB'	36.5' RT	CTH AB	1
			PB50	521+32.28 'NB'	78.6' LT	CTH AB	1
			PB51	521+44.57 'NB'	161.3' LT	CTH AB	1
			PB52	526+82.57 'NB'	175.8' LT	CTH AB	1
			PB53	523+75.90 'NB'	142.6' LT	CTH AB	1
			PB54	525+94.68 'NB'	115.1' LT	CTH AB	1
			PB55	526+65.51 'NB'	47.9' LT	CTH AB	1
			PB56	529+01.10 'NB'	27.1' LT	CTH AB	1
			PB57	798+50.02 'C'	2.5' FOC	RAMP C	1
			PB58	798+59.54 'C'	30.9' LT	RAMP C	1
			PB59	798+69.78 'C'	2.5' FOC	RAMP C	1
			PB62	524+11.59 'NB'	2.5' FOC	CTH AB	1
			PB63	524+09.12 'NB'	27.14' LT	CTH AB	1
			PB64	524+74.65 'NB'	28.0' RT	CTH AB	1
			PB65	525+76.06 'NB'	28.0' RT	CTH AB	1
			PB66	527+70.35 'NB'	21.5' RT	CTH AB	1
			PB67	530+28.94 'NB'	20.8' RT	CTH AB	1
			PB68	532+23.41 'NB'	20.7' RT	CTH AB	1
			PB69	534+41.58 'NB'	34.1' RT	CTH AB	1
			PB70	536+31.26 'NB'	36.0' RT	CTH AB	1
			PB71	538+26.48 'NB'	25.8' RT	CTH AB	1
						TOTAL 0010	49

LIGHTING - ARMS AND LUMINAIRES

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	POLE ID	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	657.0715 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT EACH	659.1120 LUMINAIRES UTILITY LED B EACH
3080-01-75	0010	3	CTH AB	P10180	129	1	1
				P10181	129	1	1
				P10182	129	1	1
				P10183	129	1	1
				P10184	129	1	1
				P10185	129	1	1
				P10186	129	1	1
				P10187	129	1	1
				P10188	129	1	1
				P10189	129	1	1
				P10190	129	1	1
				P10191	129	1	1
				P1	150	1	1
				P2	150	1	1
				P3	150	1	1
				P4	150	1	1
				P5	150	1	1
				P6	150	1	1
				P7	150	1	1
				P8	150	1	1
				P9	300	2	2
				P12	300	2	2
				P13	150	1	1
				P14	150	1	1
				P15	150	1	1
				P16	150	1	1
				P17	150	1	1
				P18	150	1	1
				P19	150	1	1
				P20	150	1	1
				P21	150	1	1
				P22	150	1	1
				P23	300	2	2
				P26	300	2	2
				P27	150	1	1
				P28	150	1	1
				P29	150	1	1
				P30	150	1	1
				P31	150	1	1
				P32	150	1	1
				P33	150	1	1
				P34	150	1	1
				TOTAL 0010	6,648	46	46

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LIGHTING - WIRE AND CONDUIT

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	FROM		TO	* 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
3080-01-75	0010	3	CTH AB	L-MP3-ST	-	PB17	33	-	196	-
				PB17	-	PB19	175	-	764	-
				PB19	-	P10181	12	-	68	-
				P10181	-	P10184	105	-	440	-
				P10184	-	PB20	102	-	472	-
				PB20	-	PB22	-	82	392	-
				PB22	-	P10188	13	-	72	-
				P10188	-	P10189	79	-	336	-
				P10189	-	PB23	105	-	484	-
				PB23	-	PB24	-	46	248	-
				PB24	-	P10190	17	-	88	-
				P10190	-	P10191	110	-	460	-
				PB20	-	P10185	86		364	-
				P10185	-	P10186	175	-	720	-
				PB22	-	P10187	175	-	720	-
				PB19	-	PB18	-	64	320	-
				PB18	-	P10182	73	-	312	-
				P10182	-	P10183	105	-	440	-
				PB18	-	P10180	112	-	468	-
				L-AB-ST	-	PB34	28	-	176	-
				PB34	-	P8	19	-	72	-
				PB34	-	PB31	102	-	472	-
				PB31	-	P7	19	-	72	-
				PB31	-	PB29	148	-	656	-
				PB29	-	P5	19	-	72	-
				PB29	-	PB27	169	-	740	-
				PB27	-	P3	19	-	72	-
				PB27	-	PB25	179	-	780	-
				PB25	-	P1	19	-	72	-
				PB31	-	PB32	-	85	404	-
				PB32	-	PB33	-	32	192	-
				PB33	-	PB30	98		456	-
				PB30	-	P6	17	-	66	-
				PB30	-	PB28	136	-	608	-
				PB28	-	P4	17	-	66	-
				PB28	-	PB26	155	-	684	-
				PB26	-	P2	17	-	66	-
				PB32	-	P9	39	-	132	-
				PB33	-	PB35	117	-	532	-
				PB35	-	PB37	99	-	460	-
				L-AB-ST	-	PB39	10	-	270	270
				PB39	-	PB40	-	27	576	576
				PB40	-	PB41	116	-	2,184	2,184
				PB41	-	P14	19	-	24	48
				PB41	-	PB42	93	-	1,770	1,770
				PB42	-	PB43	-	85	404	-
				PB43	-	PB44	47	-	252	-
				PAGE 1/2 - STAGE 3 SUBTOTALS			3,178	421	19,694	4,848

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS

CONTINUED ON NEXT PAGE

LIGHTING - WIRE AND CONDUIT (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	FROM		TO	* 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
3080-01-75	0010	3	CTH AB	PB44	-	P13	17	-	66	-
				PB44	-	PB45	134	-	600	-
				PB45	-	PB36	-	34	200	-
				PB36	-	P12	18	-	69	-
				PB42	-	P15	54	-	226	678
				P15	-	PB46	155	-	652	1,956
				PB46	-	PB47	-	88	104	312
				PB47	-	P17	48	-	53	106
				P17	-	PB43	158	-	-	-
				PB47	-	PB50	97	-	113	339
				PB50	-	P18	17	-	22	44
				PB50	-	PB51	87	-	103	309
				PB51	-	PB52		37	53	159
				PB52	-	PB53	46	-	62	186
				PB53	-	P19	16	-	21	42
				PB53	-	PB54	55	-	71	213
				PB54	-	P20	17	-	22	44
				PB54	-	PB55	89	-	105	315
				PB55	-	P21	13	-	18	36
				PB55	-	PB56	237	-	253	759
				PB56	-	P22	13	-	18	36
				PB46	-	PB49	52	-	240	720
				PB49	-	P16	19	-	24	48
				PB49	-	PB57	123	-	524	1,572
				PB57	-	PB58	-	37	180	540
				PB58	-	P23	10	-	15	30
				PB58	-	PB59	-	37	180	540
				PB59	-	PB60	133	-	149	447
				PB59	-	PB62	132	-	148	444
				PB62	-	PB63	-	67	83	249
				PB63	-	P26	18	-	23	46
				PB62	-	PB64	100	-	116	348
				PB64	-	P27	6	-	11	22
				PB64	-	PB65	124	-	140	420
				PB65	-	P28	6	-	11	22
				PB65	-	PB66	205	-	221	663
				PB66	-	P29	12	-	17	34
				PB66	-	PB67	258	-	274	822
				PB67	-	P30	6	-	11	22
				PB67	-	PB68	195	-	211	633
				PB68	-	P31	6	-	11	22
				PB68	-	PB69	213	-	229	687
				PB69	-	P32	6	-	11	22
				PB69	-	PB70	171	-	187	561
				PB70	-	P33	6	-	11	22
				PB70	-	PB71	167	-	183	549
				PB71	-	P34	38	-	43	129
				PAGE 2/2 - STAGE 3 SUBTOTALS			3,277	300	6,084	15,148
				TOTAL 0010			6,455	721	25,778	19,996

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS

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LIGHTING - POLES

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	POLE I.D.	654.0105 CONCRETE BASES TYPE 5 EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5-ALUMINUM EACH	SPV.0060.01 SPECIAL (01. CONSTRUCT LB-3 BASE) EACH	SPV.0060.02 SPECIAL (02. POLES 30-FOOT 11 GAUGE SIMPLEX) EACH
3080-01-75	0010	3	CTH AB	P10180	-	1	-	1	1
				P10181	-	1	-	1	1
				P10182	-	1	-	1	1
				P10183	-	1	-	1	1
				P10184	-	1	-	1	1
				P10185	-	1	-	1	1
				P10186	-	1	-	1	1
				P10187	-	1	-	1	1
				P10188	-	1	-	1	1
				P10189	-	1	-	1	1
				P10190	-	1	-	1	1
				P10191	-	1	-	1	1
				P1	1	1	1	-	-
				P2	1	1	1	-	-
				P3	1	1	1	-	-
				P4	1	1	1	-	-
				P5	1	1	1	-	-
				P6	1	1	1	-	-
				P7	1	1	1	-	-
				P8	1	1	1	-	-
				P9	1	1	1	-	-
				P12	1	1	1	-	-
				P13	1	1	1	-	-
				P14	1	1	1	-	-
				P15	-	-	1	-	-
				P16	1	1	1	-	-
				P17	-	-	1	-	-
				P18	1	1	1	-	-
				P19	1	1	1	-	-
				P20	1	1	1	-	-
				P21	1	1	1	-	-
				P22	1	1	1	-	-
				P23	1	1	1	-	-
				P26	1	1	1	-	-
				P27	1	1	1	-	-
				P28	1	1	1	-	-
				P29	1	1	1	-	-
				P30	1	1	1	-	-
				P31	1	1	1	-	-
				P32	1	1	1	-	-
				P33	1	1	1	-	-
				P34	1	1	1	-	-
				TOTAL 0010	28	40	30	12	12

LIGHTING-MISC

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	DESCRIPTION	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	656.0200.03 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) (03. 393+56.17'MP') LS	656.0200.04 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) (04. 517+01.78'NB') LS	659.2230 LIGHTING CONTROL CABINETS 240/480 30-INCH EACH
3080-01-75	0010	3	CTH AB	L-MP3-ST	1	1	-	1
				L-AB-ST	1	-	1	1
				TOTAL 0010	2	1	1	2

SAWING ASPHALT

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF
3080-01-75	0010	3A			500+11 'NB'	EXISTING SOUTH CTH AB	32
			502+80'SB'	-	502+91'SB'	LT DRIVEWAY	21
					539+00'NB'	EXISTING NORTH CTH AB	30
					TOTAL 0010		83

SURVEY PROJECT ID 3080-01-75

PROJECT NUMBER	CATEGORY	LOCATION	SPV.0060.35 SPECIAL (35. SURVEY PROJECT 3080-01-75) EACH
3080-01-75	0010	PROJECT-WIDE	1
		TOTAL 0010	1

ICE HOT WEATHER CONCRETING

PROJECT NUMBER	CATEGORY	LOCATION	501.1000.S ICE HOT WEATHER CONCRETING LB
3080-01-75	0040	B-13-0893	9,300
		TOTAL 0040	9,300

CLEARING AND GRUBBING

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0115 CLEARING ACRE	201.0205 GRUBBING STA	201.0215 GRUBBING ACRE
3080-01-76	0010	440+00'LD	-	444+00'LD'	MAAHIC WAY	4	-	4	-
		446+00'LD'	-	460+00'LD'	MAAHIC WAY	14	-	14	-
		464+00'LD'	-	468+00'LD'	MAAHIC WAY	4	-	4	-
		474+00'LD'	-	486+00'LD'	MAAHIC WAY	12	-	12	-
		701+00'B'	-	711+00'B'	RAMP 'B'	10	-	10	-
		807+00'C'	-	812+00'C'	RAMP 'C'	5	-	5	-
		532+00'LL'	-	536+00'LL'	LUDS LN	4	-	4	-
					POND 'A'	-	0.4	-	0.4
					POND 'B'	-	3.5	-	3.5
					TOTAL 0010	53	3.9	53	3.9
3080-01-76	0020	330+00'MP'	-	335+00'MP'	MILLPOND RD	5	-	5	-
		343+00'MP'	-	388+00'MP'	MILLPOND RD	45	-	45	-
		59+00'MRW'	-	64+00'MRW'	YHGC MAINT RD	5	-	5	-
		370+00'MRE'	-	372+00'MRE'	YHGC MAINT RD	2	-	2	-
		377+00'MRE'	-	378+00'MRE'	YHGC MAINT RD	1	-	1	-
					TOTAL 0020	58	0	58	0
					PROJECT 3080-01-76 TOTAL	111	3.9	111	3.9

REMOVING ASPHALTIC SURFACE

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	OFFSET	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	305.0500 SHAPING SHOULDERS STA	REMARKS
3080-01-76	0010	2	199+97'WB'	-	208+29'WB'	LT	1,514	-	-	COMMERCIAL DEVELOPMENT
			200+22'WB'	-	203+75'WB'	LT	4,710	-	-	COMMERCIAL DEVELOPMENT
					STAGE 2 SUBTOTALS		6,224	0	0	
3080-01-76	0010	3/3A	188+63'EB'	-	192+64'EB'	RT	-	267	4	EB OUTSIDE SHLD
			193+43'WB'	-	194+04'WB'	LT	-	41	1	WB OUTSIDE SHLD
			200+39'EB'	-	209+35'EB'	RT	-	597	9	EB OUTSIDE SHLD
			209+35'EB'	-	227+00'EB'	RT	-	1,177	18	EB OUTSIDE SHLD
			209+00'EB'	-	215+48'EB'	LT		216	6	EB MEDIAN SHLD
			224+00'EB'	-	227+00'EB'	LT		100	3	EB MEDIAN SHLD
			201+79'WB'	-	208+76'WB'	LT	-	465	8	WB OUTSIDE SHLD
					STAGE 2 SUBTOTALS		0	2,863	49	
3080-01-76	0010	4A	129+95'WB'	-	144+29'WB'	LT	-	941	14	WB OUTSIDE SHLD
			148+41'WB'	-	161+48'WB'	LT	-	839	13	WB OUTSIDE SHLD
			164+60'WB'	-	172+57'WB'	LT	-	543	8	WB OUTSIDE SHLD
					STAGE 4A SUBTOTALS		0	2,323	35	
3080-01-76	0010	4B	130+00'EB'	-	139+68'EB'	LT	-	326	10	EB MEDIAN SHLD
			146+13'EB'	-	159+80'EB'	LT	-	464	14	EB MEDIAN SHLD
			164+05'EB'	-	178+68'EB'	LT	-	490	15	EB MEDIAN SHLD
			191+59'EB'	-	198+82'EB'	LT	-	241	7	EB MEDIAN SHLD
			200+20'EB'	-	209+00'EB'	LT	-	293	9	EB MEDIAN SHLD
			151+77'WB'	-	162+34'WB'	RT	-	350	11	WB MEDIAN SHLD
			163+58'WB'	-	181+45'WB'	RT	-	597	18	WB MEDIAN SHLD
			194+36'WB'	-	198+97'WB'	RT	-	154	5	WB MEDIAN SHLD
			200+24'WB'	-	213+70'WB'	RT	-	446	13	WB MEDIAN SHLD
					STAGE 4B SUBTOTALS		0	3,361	102	
					TOTAL 0010		6,224	8,547	186	
3080-01-76	0020	1C	331+00'MP'	-	345+00'MP'	LT	3,145	-	-	SOUTH BYPASS PAVEMENTS
					STAGE 1C SUBTOTALS		3,145	0	0	
3080-01-76	0020	4B	340+00'MP'	-	348+20'MP'	LT	570	-	-	NORTH BYPASS PAVEMENTS
					STAGE 4B SUBTOTALS		570	0	0	
					TOTAL 0020		3,715	0	0	
					PROJECT 3080-01-76 TOTAL		9939	8547	8547	

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REMOVING FENCE

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	OFFSET	204.0170 REMOVING FENCE LF	204.9060.S.01 REMOVING (ITEM DESCRIPTION) (01. CHAIN LINK GATE) EACH	REMARKS
3080-01-76	0010	1	146+30'WB	-	162+65'WB'	LT	1643	-	WOVEN WIRE
			151+49'EB'	-	160+24'EB'	LT	-	-	WOVEN WIRE
			186+45'WB	-	197+58'WB'	LT	1148	-	WOVEN WIRE
			188+32'EB'	-	199+03'EB'	RT	1151	-	WOVEN WIRE
			200+96'EB'	-	201+74'EB'	RT	82	-	WOVEN WIRE
			198+98'WB	-	200+00'WB'	LT	572	1	STEEL POST & PANEL
			200+00'WB	-	208+40'WB'	LT	882	-	STEEL POST & PANEL
			200+00'WB	-	208+40'WB'	LT	842	-	WOVEN WIRE
			204+10'EB'	-	212+03'EB'	RT	813	-	WOVEN WIRE
			528+36'LL'	-	-	RT	85	-	STEEL POST & PANEL
			532+66'LL'	-	535+27'LL'	LT/RT	377	-	WOVEN WIRE
					STAGE 1 SUBTOTALS		7,595	1	
3080-01-76	0010	2	163+16'WB	-	166+27'WB'	LT	308	-	
			163+56'WB	-	177+97'WB'	LT	1,445	-	
					STAGE 2 SUBTOTALS		1,753	0	
3080-01-76	0010	3	119+62'EB'	-	127+32'EB'	RT	765	-	
	0010		132+24'EB'	-	135+50'EB'	RT	374	-	
					STAGE 3 SUBTOTALS		1,139	0	
3080-01-76	0010	4A	135+50'EB'	-	144+32'EB'	RT	832	-	
					STAGE 4A SUBTOTALS		832	0	
					TOTAL 0010		11,319	1	
3080-01-76	0020	1	146+00'EB'	-	186+93'EB'	RT	4,110	-	WOVEN WIRE
					STAGE 1 SUBTOTALS		4,110	0	
					TOTAL 0020		4,110	0	
					PROJECT 3080-01-76 TOTAL		15429	1	

REMOVING EXISTING BUSINESS SIGNS

PROJECT NUMBER	CATEGORY	STATION	MESSAGE	OFFSET	204.9060.S.02 REMOVING (ITEM DESCRIPTION) (02. EXISTING BUSINESS SIGN) EACH	REMARKS
3080-01-76	0020	345+41'MP'	YHGC	RT	1	CITY TO SALVAGE SIGN COMPONENTS
		348+87'MP'	YHGC	RT	1	
				TOTAL 0020	2	

REMOVING CONCRETE ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	REMARKS
3080-01-76	0010	1	98+25'XMP'	-	99+70'XMP'	MILLPOND RD	-	530	102	INTERSECTION
			10+50'XAB'		10+02'XAB'	CTH AB, RT	-	150	-	
						STAGE 1 SUBTOTALS	0	680	102	
3080-01-76	0010	2	142+19'WB	-	145+28'WB'	LT	-	534	-	
			198+82'EB'	-	200+20'EB'	LT	471	-	-	
						STAGE 2 SUBTOTALS	471	534	0	
3080-01-76	0010	3	179+61'EB'	-	188+63'EB'	RT	2,795	-	-	
			184+50'WB	-	193+43'WB'	LT	2,899	-	-	
			186+85'EB'	-	187+15'EB'	LT	165	-	-	
			10+02'XAB'	-	10+50'XAB'	CTH AB, RT	-	130	-	
						STAGE 3 SUBTOTALS	5,859	130	0	
3080-01-76	0010	4A	122+46'EB'	-	124+86'EB'	RT	160	-	-	
						STAGE 4A SUBTOTALS	160	0	0	
3080-01-76	0010	4B	130+07'WB	-	151+77'WB'	RT	3,024	-	-	
			139+93'EB'	-	146+13'EB'	LT	842	-	-	
			143+72'WB	-	150+62'WB'	RT	1,295	-	-	
			159+80'EB'	-	164+05'EB'	LT	780	-	-	
			161+48'WB	-	164+60'WB'	LT	830	-	-	
			178+68'EB'	-	191+59'EB'	LT	2,348	-	-	
			181+87'WB	-	194+37'WB'	RT	2,236	-	-	
						STAGE 4B SUBTOTALS	11,355	0	0	
						TOTAL 0010	17,845	1,344	102	
3080-01-76	0020	1	323+95'MP'	-	324+32'MP'	RT	-	37	11	CURB RAMP
			323+96'MP'	-	324+31'MP'	LT	-	41	24	CURB RAMP
			326+14'MP'	-	327+15'MP'	RT	-	101	-	
						STAGE 1 SUBTOTALS	0	179	35	
3080-01-76	0020	2	348+72'MP'	-	348+96'MP'	RT	-	23	-	
						STAGE 2 SUBTOTALS	0	23	0	
3080-01-76	0020	4A	344+93'MP'	-	345+20'MP'	LT/RT	-	90	-	
						STAGE 4A SUBTOTALS	0	90	0	
						TOTAL 0020	0	292	35	
						PROJECT 3080-01-76 TOTAL	17845	1636	137	

REMOVING DRAINAGE PIPE AND STRUCTURE ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO STATION	OFFSET	203.0100 REMOVING SMALL PIPE CULVERTS EACH	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER (SIZE) (01. 12-INCH) LF	204.0245.02 REMOVING STORM SEWER (SIZE) (02. 15-INCH) LF	204.0245.03 REMOVING STORM SEWER (SIZE) (03. 18-INCH) LF	204.0245.04 REMOVING STORM SEWER (SIZE) (04. 24-INCH) LF	204.0245.05 REMOVING STORM SEWER (SIZE) (05. 36-INCH) LF	204.0270 ABANDONING CULVERT PIPES EACH	204.0280 SEALING PIPES EACH	REMARKS
3080-01-76	0010	1	145+83'WB'		LT	-	1	-	-	-	-	-	-	-	-	ABANDONED SANITARY
			148+80'EB'		LT	-	1	-	-	-	-	-	-	-	-	ABANDONED SANITARY
			150+85'WB'		LT	-	1	-	-	-	-	-	-	-	-	ABANDONED SANITARY
			155+02'EB'		LT/RT	-	-	1	-	-	-	-	-	1	-	
			156+35'WB'		LT	1	-	-	-	-	-	-	-	-	-	LANDFILL DR / PORTION OF 12-INCH CMP
					STAGE 1 SUBTOTALS	1	3	1	0	0	0	0	0	1	0	
3080-01-76	0010	2	140+35'WB'		LT	1	-	-	-	-	-	-	-	-	-	24-INCH RCP
			140+37'EB'		LT/RT	-	-	1	-	-	-	160	-	-	-	
			142+71'WB'		LT	-	1	-	-	-	-	-	-	-	-	ABANDONED SANITARY
			147+00'EB'		RT	-	-	-	-	-	-	6	-	-	-	REMOVE AEW
			156+35'EB'		LT/RT	1	-	-	-	-	-	-	-	-	-	36-INCH DRAINAGE PIPE
			164+52'EB'		RT	-	-	-	-	-	-	33	-	-	-	
			170+02'EB'		RT	-	-	-	-	-	-	34	-	-	-	
			177+02'EB'		RT	-	-	-	-	-	-	36	-	-	-	
			182+00'EB'		LT/RT	-	-	1	-	-	30	-	188	-	-	
			198+85'EB'	201+59	RT	1	-	-	-	-	-	-	-	-	-	24-INCH CMP
			199+60'WB'		LT	1	-	-	-	-	-	-	-	-	1	24-INCH CMP
					STAGE 2 SUBTOTALS	4	1	2	0	0	30	269	188	0	1	
3080-01-76	0010	3	393+67'MP'		RT	1	-	-	-	-	-	-	-	-	-	24-INCH RCP
			147+00'EB'		LT	-	-	-	-	-	-	15	-	1	-	
			188+00'WB'		LT	-	-	-	-	-	-	-	30	1	-	
			187+00'EB'		LT	-	-	-	-	-	30	-	-	-	-	18-INCH RCP
			188+00'EB'		RT	-	-	-	-	-	-	-	15	-	-	
			207+00'WB'		LT	-	-	-	-	-	-	6	-	-	-	REMOVE AEW
			19+00'XAB'		LT/RT	1	-	-	-	-	-	-	-	-	-	36-INCH RCP
					STAGE 3 SUBTOTALS	2	0	0	0	0	30	21	45	2	0	
3080-01-76	0010	4A	138+00'EB'		RT	-	-	-	-	-	-	6	-	-	-	REMOVE AEW
			144+44'EB'	- 145+88'EB'	RT	-	1	-	-	-	-	126	-	-	-	
			147+00'EB'		LT	-	-	-	-	-	-	12	-	1	-	
			163+00'WB'		LT	1	-	-	-	-	-	-	-	-	-	24-INCH RCP
					STAGE 4A SUBTOTALS	1	1	0	0	0	0	144	0	1	0	
3080-01-76	0010	4B	138+00'EB		LT	-	-	1	-	-	-	-	-	-	-	
			182+50'EB'	- 192+50'EB'	MEDIAN	-	-	15	-	-	855	-	-	-	-	
			188+00'EB'		MEDIAN	-	-	1	-	-	-	-	10	-	-	
					STAGE 4B SUBTOTALS	0	0	17	0	0	855	0	10	0	0	
					TOTAL 0010	8	5	20	0	0	915	434	243	4	1	

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REMOVING DRAINAGE PIPE AND STRUCTURE ITEMS (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	OFFSET	203.0100 REMOVING SMALL PIPE CULVERTS EACH	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER (SIZE) (01. 12-INCH) LF	204.0245.02 REMOVING STORM SEWER (SIZE) (02. 15-INCH) LF	204.0245.03 REMOVING STORM SEWER (SIZE) (03. 18-INCH) LF	204.0245.04 REMOVING STORM SEWER (SIZE) (04. 24-INCH) LF	204.0245.05 REMOVING STORM SEWER (SIZE) (05. 36-INCH) LF	204.0270 ABANDONING CULVERT PIPES EACH	204.0280 SEALING PIPES EACH	REMARKS
3080-01-76	0020	1	329+53'MP'			RT	1	-	-	-	-	-	-	-	-	-	
			329+60'MP'			LT	1	-	-	-	-	-	-	-	-	-	
			330+44'MP'			LT/RT	1	-	-	-	-	-	-	-	-	-	
			330+73'MP'			RT	1	-	-	-	-	-	-	-	-	-	
					STAGE 1 SUBTOTALS		4	0	0	0	0	0	0	0	0	0	
3080-01-76	0020	2	356+33'MP'			RT	1	-	-	-	-	-	-	-	-	-	YHGC MAINT ROAD
			356+44'MP'			RT	-	-	-	6	-	-	-	-	-	-	
			375+60'MRE'			RT	-	-	-	40	-	-	-	-	-	-	
					STAGE 2 SUBTOTALS		8	0	0	46	0	0	0	0	0	0	
3080-01-76	0020	4A	344+25'MP'	-	345+15'MP'	LT/RT	-	1	2	-	137	-	79	-	-	-	
					STAGE 4A SUBTOTALS		17	1	2	92	137	0	79	0	0	0	
					TOTAL 0020		29	1	2	138	137	0	79	0	0	0	
					PROJECT 3080-01-76 TOTAL		37	6	22	138	137	915	513	243	4	1	

REMOVING LIGHTING ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	OFFSET	204.0195 REMOVING CONCRETE BASES EACH	204.9060.S.03 REMOVING (ITEM DESCRIPTION) (03. EXISTING LIGHTING) EACH	REMARKS
3080-01-76	0010	2	199+82'WB'	LT	1	1	
				STAGE 2 SUBTOTALS	1	1	
3080-01-76	0010	4B	144+71'EB'	LT	1	-	CITY TO SALVAGE LIGHTING UNIT
			145+947'EB'	LT	1	-	CITY TO SALVAGE LIGHTING UNIT
				STAGE 4 SUBTOTALS	2	0	
				TOTAL 0010	3	1	
3080-01-76	0020	3	344+24'MP'	LT	1	-	CITY TO SALVAGE LIGHTING UNIT
				STAGE 3 SUBTOTALS	1	0	
				TOTAL 0020	1	0	
				PROJECT 3080-01-76 TOTAL	4	1	

REMOVING SEPTIC TANKS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	204.0225 REMOVING SEPTIC TANKS EACH
3080-01-76	0010	2	515+80'WB	-	516+10'SB'	CTH AB SB, LT	2
						TOTAL 0010	2

MAAHIC WAY SURCHARGE EARTH EMBANKMENT ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	* 209.2100 BACKFILL GRANULAR GRADE 2 CY	* 312.0110 SELECT CRUSHED MATERIAL TON	645.0135 GEOTEXTILE TYPE SR SY	SPV.0060.15 SPECIAL (15. SETTLEMENT GAUGE) EACH
3080-01-76	0010	1	454+50'LD'	-	459+50'LD'	MAAHIC WAY	6,900	5,760	4,600	5
						TOTAL 0010	6,900	5,760	4,600	5

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

EARTHWORK SUMMARY (PROJECT ID 3080-01-76)

CATEGORY 0010

SUBSTAGE	FROM/TO STATION	LOCATION	* 205.0100 COMMON EXCAVATION (1)		SALVAGED / UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	205.0400 MARSH EXCAVATION (6)	REDUCED MARSH IN FILL (8)	REDUCED FBS IN FILL (9)	EXPANDED MARSH BACKFILL (10)	EXPANDED FBS BACKFILL (11)	UNEXPANDED FILL	EXPANDED FILL (13)	MASS ORDINATE +/- (14)	WASTE	* 209.2100 GRANULAR BACKFILL GRADE 2 (CY)	208.0100 BORROW	COMMENT:
			CUT (2)	FBS EXCAVATION (3)				FACTOR 0.60	FACTOR 0.80	FACTOR 1.50	FACTOR 1.30		FACTOR 1.25					
STAGE 1	446+00'LD' 460+00'LD'	MAAHIC WAY	7,806	2,720	0	7,806	0	0	2,176	0	3,536	4,068	2,365	5,441		0		
	454+00'LD' - 459+00'LD'	MAAHIC WAY (NORTH FILL)	0	0	0	0	0	0	0	0	0	5,247	6,559	-6,559		0		
	528+65'LL' - 536+00'LL'	LUDS LN	114	0	0	114	0	0	0	0	0	1,915	2,394	-2,280		0		
																0		
		STAGE 1 SUBTOTALS	7,920	2,720	0	7,920	0	0	2,176	0	3,536	11,230	11,318	-3,398		0	0	
STAGE 2	437+75'LD' - 444+50'LD'	MAAHIC WAY	3,569	0	312	3,257	0	0	0	0	0	252	315	2,942		0		
	460+00'LD' - 462+00'LD	MAAHIC WAY	190	0	0	190	0	0	0	0	0	184	230	-40		0		
	464+50'LD' - 475+00'LD'	MAAHIC WAY	19,060	0	0	19,060	0	0	0	0	0	1,228	1,535	17,525		0		
	146+95'EB' - 179+00'EB'	USH 12/18 EB SHOULDER	2,802	0	178	2,624	0	0	0	0	0	0	0	2,624		0		
	690+50'A' - 695+00'A'	RAMP A	1,245	2,201	0	1,245	0	0	1,761	0	2,851	39,596	47,294	-46,049		0		
	698+26'B' - 704+50'B'	RAMP B	101,974	0	98	101,876	0	0	0	0	0	5,553	6,941	94,935		0		
	799+21'C' 804+50'C'	RAMP C	5,364	819	0	5,364	0	0	655	0	1,065	17,748	22,366	16,002		0		
	991+50'D' - 996+25'D'	RAMP D	3,352	0	0	3,352	0	0	0	0	0	16,387	20,484	-17,132		0		
		POND C	12,790	0	0	12,790	0	0	0	0	0	300	375	12,415		0		
		POND D	28,735	0	0	28,735	0	0	0	0	0	0	0	28,735		0		
	58+83'MRW' - 63+62'MRW'	YHGC MAINTENANCE ROAD	164			164						1,358	1,698	-1,534		0		
	369+70'MRE' - 385+20'MRE'	YHGC MAINTENANCE ROAD	684			684						130	163	522		0		
		STAGE 2 SUBTOTALS	179,929	3,020	588	179,341	0	0	2,416	0	3,916	82,736	100,400	78,941		0	0	

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EARTHWORK SUMMARY (PROJECT ID 3080-01-76) (CONTINUED)

CATEGORY 0010

SUBSTAGE	FROM/TO STATION	LOCATION	* 205.0100 COMMON EXCAVATION (1) CUT (2)	* 205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED / UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	205.0400 MARSH EXCAVATION (6)	REDUCED MARSH IN FILL (8) FACTOR 0.60	REDUCED EBS IN FILL (9) FACTOR 0.80	EXPANDED MARSH BACKFILL (10) FACTOR 1.50	EXPANDED EBS BACKFILL (11) FACTOR 1.30	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE	* 209.2100 GRANULAR BACKFILL GRADE 2 (CY)	208.0100 BORROW	COMMENT:
STAGE 3/3A	172+50'WB' - 209+00'WB'	USH 12 WB OUTSIDE SHOULDER	5,651	0	436	5,215	0	0	0	0	0	439	549	4,666		0		
	180+00'EB' - 209+00'EB'	USH 12 EB OUTSIDE SHOULDER	2,199	0	132	2,067	0	0	0	0	0	98	123	1,945		0		
	216+48'EB' - 224+00'EB'	USH 12/18 INSIDE LANE/SHLDR	1,817	0	308	1,509	0	0	0	0	0	35	44	1,465		0		
	680+75'A' - 690+00'A'	RAMP A	3,642	1,410	136	3,506	0	0	1,128	0	1,833	7,572	8,055	-4,549		0		
	804+50'C' 813+69'C'	RAMP C	22,559	86	0	22,559	0	0	0	0	0	632	790	21,769		0		
	982+86'D' 991+00'D'	RAMP D	1,863	0	0	1,863	0	0	0	0	0	4,328	5,410	3,547		0		
	444+50'LD' 446+00'LD'	MAAHIC WAY	1,089	0	136	953	0	0	0	0	0	12	15	938		0		
	462+00'LD' - 464+50'LD'	MAAHIC WAY	1,616	0	55	1,561	0	0	0	0	0	0	0	1,561		0		
	10+15'LA' - 10+80'LA'	LANDFILL DRIVE	307	0	50	257	0	0	0	0	0	0	0	257		0		
	475+00'LD' - 486+21'LD'	MAAHIC WAY	374	697	26	348	0	0	558	0	906	7,076	8,148	-7,800		0		
		STAGE 3/3A SUBTOTALS	41,117	2,193	1,279	39,838	0	0	1,686	0	2,739	20,192	23,133	16,705		0	0	
STAGE 3B	209+00'EB' - 224+00'EB'	USH 12/18 EB, RAMP B	4,221	0	379	3,842	0	0	0	0	0	973	1,216	2,626		0		
	705+00'B' 711+10'B'	RAMP B	57,411	0	0	57,411	0	0	0	0	0	69	86	57,325		0		
		STAGE 3B SUBTOTALS	61,632	0	379	61,253	0	0	0	0	0	1,042	1,303	59,951		0	0	
STAGE 4A	138+58'EB' - 147+00'EB'	USH 12/18 EB ALX RAMP	2,544	0	333	2,211	0	0	0	0	0	535	669	1,542		0		
	129+95'WB' - 172+50'WB'	USH 12 WB OUTSIDE SHOULDER	3,585	0	418	3,167	0	0	0	0	0	488	610	2,557		0		
	32+00'F' - 44+33'F'	RAMP F	2,457	0	57	2,400	6,210	3,726	0	9,315	0	945	-3,476	5,876		9,315		
		STAGE 4A SUBTOTALS	8,586	0	808	7,778	6,210	3,726	0	9,315	0	1,968	-2,198	9,976		9,315	0	
STAGE 4B	129+95'WB' - 213+90'WB'	USH 12 WB MEDIAN SHOULDER	1,284	0	387	897	0	0	0	0	0	24	30	867		0		
	130+00'EB' 221+50'EB'	USH 12 EB SHOULDER/MEDIAN	7,460	0	1,480	5,980	0	0	0	0	0	943	1,179	4,801		0		
		STAGE 4B SUBTOTALS	8,744	0	1,867	6,877	0	0	0	0	0	967	1,209	5,668		0	0	
		CATEGORY 0010 SUBTOTALS	307,928	7,933	4,921	303,007	6,210	3,726	5,278	9,315	10,201	118,135	135,164	167,843		9,315		

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EARTHWORK SUMMARY (PROJECT ID 3080-01-76) (CONTINUED)

CATEGORY 0020

SUBSTAGE	FROM/TO STATION	LOCATION	* 205.0100 COMMON EXCAVATION (1) CUT (2)	* 205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED / UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	205.0400 MARSH EXCAVATION (6)	REDUCED MARSH IN FILL (8) FACTOR 0.60	REDUCED EBS IN FILL (9) FACTOR 0.80	EXPANDED MARSH BACKFILL (10) FACTOR 1.50	EXPANDED EBS BACKFILL (11) FACTOR 1.30	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE	* 209.2100 GRANULAR BACKFILL GRADE 2 (CY)	208.0100 BORROW	COMMENT:
STAGE 1A	326+19'M1B' - 343+10'M1B'	MILLPOND RD TEMP	2,535	0	10	2,525	0	0	0	0	0	1,463	1,829	696		0		
		STAGE 1A SUBTOTALS	2,535	0	10	2,525	0	0	0	0	0	1,463	1,829	696				
STAGE 1B/1C	327+15'MP' - 340+00'MP'	MILLPOND RD	3,729	0	513	3,216	0	0	0	0	0	1,838	2,298	919		0		
	10+16'LR' - 11+00'LR'	LONG DR INTERSECTION	414	0	53	361	0	0	0	0	0	43	54	307		0		
		STAGE 1B/1C SUBTOTALS	4,143	0	566	3,577	0	0	0	0	0	1,881	2,351	1,226				
STAGE 2	346+50'MP - 386+00'MP'	MILLPOND RD	2,669	331	0	2,669	0	0	265	0	430	24,580	30,394	-27,725		0		
	346+50'ME' - 348+50'ME'	MILLPOND RD	2,245	0	0	2,245	0	0	0	0	0	622	778	1,468		0		
	9+31'GC' - 9+84'GC'	YHGC ACCESS	574	0	4	570	0	0	0	0	0	3	4	566		0		
	58+90'MRW' - 63+60'MRW'	MAINTENANCE RD (WEST)	164	0	0	164	0	0	0	0	0	1,358	1,698	-1,534		0		
	369+70'MRE' - 385+10'MRE'	MAINTENANCE RD (EAST)	684	0	0	684	0	0	0	0	0	130	163	522		0		
		STAGE 2 SUBTOTALS	6,336	331	4	6,332	0	0	265	0	430	26,693	33,035	-26,703		0	0	
STAGE 3	340+00'M4A' - 348+20'M4A'	MILLPOND RD TEMP	202	0	0	202	0	0	0	0	0	606	758	-556		0		
	386+00'MP' - 394+00'MP'	MILLPOND RD	4,950	502	0	4,950	0	0	402	0	653	2,862	3,076	1,875		0		
	8+97'GC' - 9+31'GC'	GOLD COURSE ACCESS	131	0	0	131	0	0	0	0	0	12	15	116		0		
						0												
		STAGE 3 SUBTOTALS	5,283	502	0	5,283	0	0	402	0	653	3,480	3,848	1,435		0	0	

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EARTHWORK SUMMARY (PROJECT ID 3080-01-76) (CONTINUED)

CATEGORY 0020

SUBSTAGE	FROM/TO STATION	LOCATION	* 205.0100 COMMON EXCAVATION (1)		SALVAGED / UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	205.0400 MARSH EXCAVATION (6)	REDUCED MARSH IN FILL (8)	REDUCED EBS IN FILL (9)	EXPANDED MARSH BACKFILL (10)	EXPANDED EBS BACKFILL (11)	UNEXPANDED FILL	EXPANDED FILL (13)	MASS ORDINATE +/- (14)	WASTE	* 209.2100 GRANULAR BACKFILL GRADE 2 (CY)	208.0100 BORROW	COMMENT:
			CUT (2)	EBS EXCAVATION (3)				FACTOR 0.60	FACTOR 0.80	FACTOR 1.50	FACTOR 1.30		FACTOR 1.25					
STAGE 4A	340+00'MP' - 346+50'MP'	MILLPOND RD	1,099	0	209	890	0	0	0	0	0	188	235	655		0		
	342+50'MPE' - 346+50'MPE'	MILLPOND RD	690	0	71	619	0	0	0	0	0	97	121	498		0		
	10+00'MI' - 12+95'MI'	MILLPOND RD ROUNDABOUT	1,392	0	310	1,082	0	0	0	0	0	589	736	346		0		
	44+33'E' - 44+79'E'	RAMP E	132	0	25	107	0	0	0	0	0	90	113	-6		0		
						0												
		STAGE 4A SUBTOTALS	3,313	0	615	2,698	0	0	0	0	0	964	1,205	1,493		0	0	
STAGE 4B	44+79'E' - 45+43'E'	RAMP E	91	0	45	46	0	0	0	0	0	52	65	-19		0		
						0												
		STAGE 4B SUBTOTALS	91	0	45	46	0	0	0	0	0	52	65	-19		0	0	
		CATEGORY 0020 SUBTOTALS	21,701	833	1,240	20,461	0	0	666	0	1,083	34,533	42,333	-21,872		0		
		PROJECT TOTALS	329,629	8,766	6,161	323,468	6,210	3,726	6,944	9,315	11,284	152,668	177,498	145,971		9,315	0	
		TOTAL COMMON EXC	338,395															

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(3) EBS EXCAVATION TO BE BACKFILLED WITH CUT OR BORROW UNLESS OTHERWISE NOTED IN PLANS.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(6) MARSH EXCAVATION - TO BE BACKFILLED WITH GRANULAR BACKFILL . NOTE: THIS IS DESIGNERS CHOICE FOR AREAS ADJACENT TO THE FLINT HILLS RESOURCES HIGH-PRESSURE GAS.

(8) REDUCED MARSH IN FILL - EXCAVATED MARSH MATERIAL IS USUABLE IN FILLS OUTSIDE THE 1:1 SLOPE. MARSH IN FILL REDUCTION FACTOR = 0.60

(9) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS USUABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80

(10) EXPANDED MARSH BACKFILL - THIS IS TO BE FILLED WITH GRANULAR BACKFILL. MARSH BACKFILL FACTOR = 1.50. ITEM NUMBER 209.2100

(11) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH CUT OR BORROW MATERIAL. EBS BACKFILL FACTOR = 1.30.

(13) EXPANDED FILL FACTOR = 1.25

DEPENDING ON SELECTIONS:

(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

EXPANDED FILL = (UNEXPANDED FILL - REDUCED MARSH - REDUCED EBS) * FILL FACTOR

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BASE AGGREGATE ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	* 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0130 BASE AGGREGATE DENSE 3-INCH TON	* 312.0110 SELECT CRUSHED MATERIAL TON	* 623.0200 DUST CONTROL SURFACE TREATMENT SY	* 624.0100 WATER MGAL
3080-01-76	0010	1	528+41 'LL'	-	536+35 'LL'	LUDS LANE	107	1,508	2,173	-	9,000	38
						STAGE 1 SUBTOTALS	107	1,508	2,173	0	9,000	38
3080-01-76	0010	2	437+75'LD'	-	444+61'LD'	MAAHIC WAY	84	1,361	2,049	-	8166	35
			445+71'LD'	-	462+24'LD'	MAAHIC WAY	201	2,368	3,435	-	14208	60
			464+39'LD'	-	475+00'LD'	MAAHIC WAY	157	1,456	2,127	-	8736	37
			146+95'EB'	-	179+00'EB'	USH 12/18 EB, RT SHLD	-	3,261	-	2,424	9783	33
			690+00'A'	-	695+11'A'	RAMP 'A'	40	970	-	1,765	2910	10
			698+26'B'	-	704+75'B'	RAMP 'B'	90	1,270	-	1,640	3810	14
			799+21'C'	-	804+75'C'	RAMP 'C'	45	1,040	-	1,900	3120	11
			991+00'D'	-	996+03'D'	RAMP 'D'	80	1,210	-	1,800	3630	13
						STAGE 2 SUBTOTALS	697	12,936	7,611	9,529	54,363	213
3080-01-76	0010	3/3A	179+75'EB'		180+57'EB'	USH 12/18 EB, RT SHLD	-	86	-	73	258	1
			185+66'EB'	-	188+63'EB'	USH 12/18 EB, RT SHLD	19	103	-	-	309	1
			188+63'EB'	-	192+64'EB'	USH 12/18 EB, RT SHLD	25	-	-	-	-	0
			192+64'EB'	-	200+39'EB'	USH 12/18 EB, RT SHLD	62	717	-	381	2151	8
			200+39'EB'		209+35'EB'	USH 12/18 EB, RT SHLD	56	-	-	-	-	1
			209+00'EB'	-	215+48'EB'	USH 12/18 EB, LT SHLD	41	-	-	-	-	0
			215+48'EB'	-	224+00'EB'	USH 12/18 EB, LT SHLD	46	862	-	1,839	2586	9
			224+00'EB'	-	227+00'EB'	USH 12/18 EB, LT SHLD	19	-	-	-	-	0
			172+56'WB'	-	182+86'WB'	USH 12/18 WB, ON RAMP	23	1,225	-	1,664	3855	12
			185+03'WB'	-	193+43'WB'	USH 12/18 WB, LT SHLD	52	289	-	-	867	3
			193+43'WB'	-	194+04'WB'	USH 12/18 WB, LT SHLD	4	-	-	-	-	0
			194+04'WB'	-	201+83'WB'	USH 12/18 WB, LT SHLD	62	722	-	384	2166	8
			201+83'WB'	-	208+76'WB'	USH 12/18 WB, LT SHLD	43	-	-	-	-	0
			444+61'LD'	-	445+71'LD'	MAAHIC WAY	12	246	229	-	1476	5
			462+24'LD'	-	464+39'LD'	MAAHIC WAY	26	337	480	-	2022	8
			475+00'LD'	-	486+21'LD'	MAAHIC WAY	120	1,643	2,363	-	9858	41
			10+22'LA'	-	10+80'LA'	LANDFILL ACCESS	1	99	160	-	594	3
			680+57'A'	-	688+50'A'	GORE RAMP 'A'	70	1,720	-	2,330	5160	20
			982+86'D'	-	988+50'D'	GORE RAMP 'D'	50	1,270	-	1,810	3810	20
			680+57'A'	-	690+00'A'	RAMP 'A'	90	2,030	-	2,720	6090	21
			804+75'C'	-	813+85'C'	RAMP 'C'	120	1,640	-	2,280	4920	18
			982+86'D'	-	991+00'D'	RAMP 'D'	70	1,840	-	2,620	5520	19
						STAGE 3 SUBTOTALS	1,011	14,829	3,232	16,101	51,642	198
3080-01-76	0010	3B	211+11'EB'	-	224+00'EB'	USH 12/18 EB, RAMP B	88	1,947	-	2,944	5841	20
			704+75'B'	-	711+11'B'	RAMP 'B'	80	1,250	-	1,690	3750	13
			FRENCH DRAINS			SEE PLAN-PROFILE FOR LOCATIONS	-	-	-	88	-	-
						STAGE 3B SUBTOTALS	168	3,197	0	4,722	9,591	33

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BASE AGGREGATE ITEMS (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	* 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0130 BASE AGGREGATE DENSE 3-INCH TON	* 312.0110 SELECT CRUSHED MATERIAL TON	* 623.0200 DUST CONTROL SURFACE TREATMENT SY	* 624.0100 WATER MGAL
3080-01-76	0010	4A	118+59'EB'	-	122+46'EB'	USH 12/18 EB, RT SHLD	54	466	-	440	1,398	5
			122+46'EB'	-	131+91'EB'	USH 12/18 EB, RT RAMP	76	1,203	-	1,587	3,609	13
			140+98'EB'	-	144+45'EB'	USH 12/18 EB, RT SHLD	0	308	-	229	924	3
			144+45'EB'	-	146+95'EB'	USH 12/18 EB, RT SHLD	29	344	-	192	1,032	4
			129+95'WB'	-	143+59'WB'	USH 12/18 WB, LT SHLD	85	-	-	-	-	1
			143+59'WB'	-	149+96'WB'	USH 12/18 WB, LT SHLD	40	229	-	-	-	3
			149+96'WB'		150+38'WB'	USH 12/18 WB, LT SHLD	3	15				0
			150+38'WB'		161+34'WB'	USH 12/18 WB, LT SHLD	68					1
			161+34'WB'		164+60'WB'	USH 12/18 WB, LT SHLD	20	112				1
			164+60'WB'	-	172+56WB'	USH 12/18 WB, LT SHLD	50	-	-	-	-	1
			31+91'E'	-	35+49'E'	USH 12/18 EB, RT RAMP	104	573	-	794	1,719	7
			35+49'E'	-	40+97'E'	USH 12/18 EB, RT RAMP	44	1,189	-	1,767	3,567	12
			40+97'E'	-	44+33'E'	USH 12/18 EB, RT RAMP	18	438	-	765	1,314	5
			FRENCH DRAINS			SEE PLAN-PROFILE FOR LOCATIONS	-	-	-	231	-	-
						STAGE 4A SUBTOTALS	591	4,867	0	6,005	13,563	56
3080-01-76	0010	4B	130+00'EB'	-	139+67'EB'	USH 12/18 EB, LT SHLD	60	-	-	-	-	1
			139+67'EB'	-	146+13'EB'	USH 12/18 EB, LT SHLD	40	178	-	-	534	2
			146+13'EB'	-	159+79'EB'	USH 12/18 EB, LT SHLD	85	-	-	-	-	1
			159+79'EB'	-	164+05'EB'	USH 12/18 EB, LT SHLD	27	118	-	-	354	1
			164+05'EB'	-	178+68'EB'	USH 12/18 EB, LT SHLD	91	-	-	-	-	1
			178+68'EB'	-	191+59'EB'	USH 12/18 EB, LT SHLD	81	357	-	-	1071	4
			191+59'EB'		198+82'EB'	USH 12/18 EB, LT SHLD	45					0
			198+82'EB'		200+20'EB'	USH 12/18 EB, LT SHLD	9	38			114	0
			200+20'EB'		209+00'EB'	USH 12/18 EB, LT SHLD	55					1
			155+46'EB'	-	156+14'EB'	USH 12/18 MED AN	9	69	-	-	207	1
			129+95'WB'	-	151+83'WB'	USH 12/18 WB, RT	137	604	-	-	1812	7
			151+83'WB'	-	162+33'WB'	USH 12/18 WB, RT	66	-	-	-	-	1
			162+33'WB'	-	163+58'WB'	USH 12/18 WB, RT	8	35	-	-	105	0
			163+58'WB'	-	181+46'WB'	USH 12/18 WB, RT	112	-	-	-	-	1
			181+46'WB'	-	194+37'WB'	USH 12/18 WB, RT	81	357	-	-	1071	4
			194+37'WB'	-	198+97'WB'	USH 12/18 WB, RT	29	-	-	-	-	0
			198+97'WB'	-	200+24'WB'	USH 12/18 WB, RT	8	35	-	-	105	0
			200+24'WB'	-	213+90'WB'	USH 12/18 WB, RT	85	-	-	-	-	-
			213+90'EB'	-	214+10'EB'	USH 12/18 MED AN	7	47	-	-	141	1
			FRENCH DRAINS			SEE PLAN-PROFILE FOR LOCATIONS	-	-	-	138	-	-
						STAGE 4B SUBTOTALS	1,035	1,838	0	138	5,514	26
						TOTAL 0010	3,609	39,175	13,016	36,495	143,673	564

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BASE AGGREGATE ITEMS (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	* 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0130 BASE AGGREGATE DENSE 3-INCH TON	* 312.0110 SELECT CRUSHED MATERIAL TON	* 623.0200 DUST CONTROL SURFACE TREATMENT SY	* 624.0100 WATER MGAL
3080-01-76	0020	1B	327+15'MP'	-	340+00'MP'	MILLPOND RD	-	1,900	3,135	-	11400	50
						STAGE 1B SUBTOTALS	0	1,900	3,135	0	11,400	50
3080-01-76	0020	1C	323+93'MP'	-	324+32'MP'	MILLPOND RD	-	13	21	-	78	1
			326+15'MP'	-	330+95'MP'	MILLPOND RD	-	187	308	-	1122	5
						STAGE 1C SUBTOTALS	0	200	329	0	1,200	6
3080-01-76	0020	2	58+90'MRW'	-	63+60'MRW'	MAINTENANCE RD (WEST)	-	289	-	-	-	3
			369+70'MRE'	-	375+20'MRE'	MAINTENANCE RD (EAST)	-	326	-	-	-	3
			375+20'MRE'	-	377+25'MRE'	MAINTENANCE RD (EAST)	-	121	-	-	-	1
			377+25'MRE'	-	383+40'MRE'	MAINTENANCE RD (EAST)	-	364	-	-	-	4
			383+40'MRE'	-	385+10'MRE'	MAINTENANCE RD (EAST)	-	101	-	-	-	1
						STAGE 2 SUBTOTALS	0	1,201	0	0	0	12
3080-01-76	0020	3	346+83'MP'	-	386+11'MP'	MILLPOND RD	-	6,169	8,018	-	37014	142
			386+11'MP'	-	394+07'MPE'	MILLPOND RD	-	1,374	1,829	-	8244	32
			8+97'GC'	-	9+81'GC'	GOLF COURSE ACCESS	-	162	267	-	972	4
						STAGE 3 SUBTOTALS	0	7,705	10,114	0	46,230	178
3080-01-76	0020	4A	340+00'MP'	-	343+66'MP'	MILLPOND RD	-	572	944	-	3432	15
			343+66'MP'	-	346+71'MP'	MILLPOND RD RAB	-	671	-	-	4026	7
			346+71'MP'	-	346+82'MP'	MILLPOND RD	-	19	31	-	114	-
			10+00'MI'	-	12+95'MI'	MILLPOND RAB	-	163	-	-	978	2
			8+97'GC'	-	9+33'GC'	GOLF COURSE ACCESS	-	6	10	-	36	-
			44+33'E'	-	44+79'E'	USH 12/18 EB, RT RAMP	-	62	183	-	372	1
						STAGE 4A SUBTOTALS	0	1,493	1,168	0	8,958	25
3080-01-76	0020	4B	340+00'MP'	-	348+44'MP'	MILLPOND RD MISC C&G	-	124	204	-	744	3
			44+79'E'	-	45+43'E'	USH 12/18 EB, RT RAMP	-	73	213	-	438	1
						STAGE 4B SUBTOTALS	0	197	417	0	1,182	4
						TOTAL 0020	0	12,696	15,163	0	68,970	275
						PROJECT 3080-01-76 TOTAL	3609	51871	28179	36495	212643	839

LISTED ELSEWHERE IN 3080-01-76 PLANS

ATE DENSE MATERIAL. USE WATER FOR BASE COMPACTION AND DUST CONTROL

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CONCRETE PAVEMENT ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	405.0100 COLORING CONCRETE WISDOT CY	415.0060 CONCRETE PAVEMENT 6-INCH SY	415.0090 CONCRETE PAVEMENT 9-INCH SY	416.0512 CONCRETE TRUCK APRON 12- SY	* 416.0610 DRILLED TIE BARS EACH	* 416.0620 DRILLED DOWEL BARS EACH
3080-01-76	0010	2	196+34'EB'	-	198+09'EB'	USH 12/18 EB, RT	-	62	-	-	-	-
			196+34'WB	-	198+09'WB'	USH 12/18 WB, LT	-	62	-	-	-	-
			690+00'A'	-	695+11'A'	RAMP 'A'	-	-	1,482	-	-	-
			698+26'B'	-	704+75'B'	RAMP 'B'	-	-	1,083	-	-	-
			799+21'C'	-	804+75'C'	RAMP 'C'	-	-	1,577	-	-	-
			991+00 'D'	-	996+03 'D'	RAMP 'D'	-	-	1,321	-	-	-
						STAGE 2 SUBTOTALS	0	124	5,463	0	0	0
3080-01-76	0010	3/3A	172+76'WB	-	182+86'WB'	USH 12/18 WB/RAMP D	-	-	1,079	-	-	-
			215+48'EB'	-	224+00'EB'	USH 12/18 EB, LT LANE	-	-	1,231	-	-	16
			215+48'EB'	-	224+00'EB'	USH 12/18 EB, LT SHLD	-	-	379	-	-	-
			680+57'A'	-	690+00'A'	RAMP 'A'	-	-	1,411	-	85	-
			804+75'C'	-	813+85'C'	RAMP 'C'	-	-	1,344	-	93	-
			982+86 'D'	-	991+00 'D'	RAMP 'D'	-	-	1,420	-	-	-
						STAGE 3/3A SUBTOTALS	0	0	6,864	0	178	16
3080-01-76	0010	3B	211+11'EB'	-	224+00'EB'	USH 12/18 EB/RAMP B	-		2,357	-	-	16
			704+75'B'	-	711+11'B'	RAMP 'B'	-		1,057	-	-	-
						STAGE 3B SUBTOTALS	0	0	3,414	0	0	16
3080-01-76	0010	4A	122+46'EB'	-	131+91'EB'	USH 12/18 EB AUX RAMP	-	-	1,044	-	378	-
			31+91'E'	-	35+49'E'	RAMP 'E'	-	-	490	-	143	-
			35+49'E'	-	44+33'E'	RAMP 'E'	-	-	1,484	-	-	-
						STAGE 4A SUBTOTALS	0	0	3,018	0	521	0
						TOTAL 0010	0	124	18,759	0	699	32
3080-01-76	0020	4A	343+66'MP'	-	346+71'MP'	MILLPOND RD RAB	-	-	1,510	-	-	-
			10+00'MI'	-	12+95'MI'	ROUNDABOUT APRON	106	-	26	318	-	-
			44+33'E'		44+79'E'	RAMP 'E'	-	-	126	-	-	-
						STAGE 4A SUBTOTALS	106	0	1,662	318	0	0
3080-01-76	0020	4B	44+79'E'	-	45+43'E'	RAMP 'E'	-		165	-	-	-
						STAGE 4B SUBTOTALS	0	0	165	0	0	0
						TOTAL 0020	106	0	1,827	318	0	0
						PROJECT 3080-01-76 TOTAL	106	124	20586	318	699	32

_ISTED ELSEWHERE IN 3080-01-76 PLANS

CONCRETE PAVEMENT REPLACEMENT ITEMS

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	* 205.0100 EXCAVATION COMMON CY	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	* 312.0110 SELECT CRUSHED MATERIAL TON	* 416.0610 DRILLED TIE BARS EACH	* 416.0620 DRILLED DOWEL BARS EACH	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	416.1725 CONCRETE PAVEMENT REPLACEMENT SHES SY	* 465.0125 ASPHALTIC SURFACE TEMPORARY TON	* 624.0100 WATER MGAL	* 690.0150 SAWING ASPHALT LF	* 690.0250 SAWING CONCRETE LF	REMARKS
3080-01-76	0010	80+64'EB'	-	88+16'EB'	USH 12/18 EB	-	-	-	-	194	97	-	-	-	-	282	SEE CONC PVMT REPLACEMENT & REPAIR PN_01
		91+05'WB'	-	102+45'WB'	USH 12/18 WB	-	-	-	-	204	102	-	-	-	-	292	SEE CONC PVMT REPLACEMENT & REPAIR PN_02
		92+31'EB'	-	103+91'EB'	USH 12/18 EB	-	-	-	-	124	62	-	-	-	-	180	SEE CONC PVMT REPLACEMENT & REPAIR PN_02
		105+36'EB'	-	108+31'EB'	USH 12/18 EB	-	-	-	-	52	26	-	-	-	-	76	SEE CONC PVMT REPLACEMENT & REPAIR PN_03
		105+70'WB	-	113+55'WB'	USH 12/18 WB	-	-	-	-	160	80	-	-	-	-	232	SEE CONC PVMT REPLACEMENT & REPAIR PN_03
		119+45'WB	-	130+48'WB'	USH 12/18 WB	-	-	-	-	68	51	-	-	-	-	126	SEE CONC PVMT REPLACEMENT & REPAIR PN_04
		128+74'EB'	-	129+91'EB'	USH 12/18 EB	-	-	-	10	56	24	47	-	-	-	108	SEE CONC PVMT REPLACEMENT & REPAIR PN_04
		140+29'EB'	-	146+29'EB'	USH 12/18 EB & WB	26	115	155	30	164	18	328	39	2	36	472	SEE CONC PVMT REPLACEMENT & REPAIR PN_05
		151+81'WB	-	161+32'WB'	USH 12/18 EB & WB	32	105	142	14	144	45	126	35	2	43	208	SEE CONC PVMT REPLACEMENT & REPAIR PN_06
		163+72'EB'	-	173+59'EB'	USH 12/18 EB & WB	-	-	-	43	196	77	-	-	-	-	448	SEE CONC PVMT REPLACEMENT & REPAIR PN_07
		181+90'WB	-	187+15'WB'	USH 12/18 EB & WB	82	344	465	36	108	-	320	116	4	110	364	SEE CONC PVMT REPLACEMENT & REPAIR PN_08
		192+29'EB'	-	199+98'EB'	USH 12/18 EB & WB	-	-	-	58	92	20	353	-	-	-	440	SEE CONC PVMT REPLACEMENT & REPAIR PN_09
					TOTAL 0010	140	564	762	191	1,562	602	1,174	190	8	189	3,228	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

DRIVEWAY ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	* 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	416.0160 CONCRETE DRIVEWAY 6-INCH SY
3080-01-76	0020	1, 1A	534+40 'LL'	-	535+15 'LL'	LUDS LN	70	-	-
			329+54'MP'			RT	14	-	-
			330+73'MP'			RT	26	-	-
						STAGE 1/1A SUBTOTALS	110	0	0
3080-01-76	0020	1C	329+54'MP'			RT	4	10	30
			330+73'MP'			RT	5	11	32
						STAGE 2B SUBTOTALS	9	21	62
						TOTAL 0020	119	21	62

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

ASPHALTIC FLUME ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	OFFSET	LOCATION	* 465.0310 ASPHALTIC CURB LF	465.0315 ASPHALTIC FLUMES SY	631.1000 SOD LAWN SY
3080-01-76	0010	2	471+00'LD'	LT	MAAHIC WAY	18	8	9
					STAGE 2 SUBTOTALS	18	8	9
3080-01-76	0010	3	475+00'LD	LT	MAAHIC WAY	18	14	9
			176+12'WB	LT	USH 12/18 WB	18	8	9
			486+24'LD'	LT	MAAHIC WAY	18	11	9
			692+65'A'	LT	RAMP 'A'	-	20	-
			692+65'A'	RT	RAMP 'A'	-	20	-
			698+26'B'	LT	RAMP 'B'	-	20	-
			698+26'B'	RT	RAMP 'B'	-	20	-
			801+56'C'	LT	RAMP 'C'	-	20	-
			801+56'C'	RT	RAMP 'C'	-	20	-
			996+03'D'	LT	RAMP 'D'	-	20	-
			996+03'D'	RT	RAMP 'D'	-	20	-
					STAGE 3 SUBTOTALS	90	209	45
3080-01-76	0010	4A	43+00'E'	RT	RAMP E	18	12	9
			9+28'GC'	LT	YHGC ACCESS	18	16	9
					STAGE 4A SUBTOTALS	36	28	18
					TOTAL 0010	144	245	72

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

ASPHALTIC PAVEMENT ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	LOWER LAYER THICKNESS IN	UPPER LAYER THICKNESS IN	450.4000 HMA COLD WEATHER PAVING TON	* 455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	REMARKS
3080-01-76	0010	1	528+43 'LL'	-	536+35 'LL'	LUDS LANE	2.5	2.00	-	360	360	290	-	-	
								STAGE 1 SUBTOTALS	0	360	360	290	0	0	
3080-01-76	0010	2	437+75'LD'	-	444+61'LD'	MAAHIC WAY	1.75	1.75	-	159	-	-	-	446	
			445+71'LD'	-	462+24'LD'	MAAHIC WAY	1.75	1.75	-	386	-	-	-	1,080	
			464+39'LD'	-	475+00'LD'	MAAHIC WAY	3.75	1.75	-	248	-	-	743	347	
			146+95'EB'	-	179+00'EB'	US 12 & 18 EB SHOULDER RT	-	3.50	-	-	-	-	-	558	
			690+00'A'	-	692+64'A'	RAMP 'A' LT SHOULDER	-	3.50	-	-	-	-	-	15	
			690+00'A'	-	692+64'A'	RAMP 'A' RT SHOULDER	-	3.50	-	-	-	-	-	30	
			698+26 'B'	-	704+75'B'	RAMP 'B' LT SHOULDER	-	3.50	-	-	-	-	-	40	
			698+26 'B'	-	704+75'B'	RAMP 'B' RT SHOULDER	-	3.50	-	-	-	-	-	70	
			801+56'C'	-	804+75'C'	RAMP 'C' LT SHOULDER	-	3.50	-	-	-	-	-	35	
			801+56'C'	-	804+75'C'	RAMP 'C' RT SHOULDER	-	3.50	-	-	-	-	-	20	
			991+00'D'	-	996+03'D'	RAMP 'D' LT SHOULDER	-	3.50	-	-	-	-	-	75	
			991+00'D'	-	996+03'D'	RAMP 'D' RT SHOULDER	-	3.50	-	-	-	-	-	35	
								STAGE 2 SUBTOTALS	0	793	0	0	743	2,751	
3080-01-76	0010	3A	179+75'EB'		180+57'EB'	USH 12/18 EB, RT SHLD	-	3.50	-	-	-	-	-	29	
			185+66'EB'	-	209+35'EB'	USH 12/18 EB, RT SHLD	-	3.50	-	-	-	-	-	386	
			209+00'EB'	-	215+48'EB'	USH 12/18 EB, LT SHLD	-	3.50	-	-	-	-	-	53	
			224+00'EB'	-	227+00'EB'	USH 12/18 EB, LT SHLD	-	3.50	-	-	-	-	-	26	
			172+56'WB	-	176+16'WB'	USH 12/18 WB, RAMP D	-	3.50	-	-	-	-	-	43	
			176+16'WB	-	182+86'WB'	USH 12/18 WB, RAMP D	-	3.50	-	-	-	-	-	116	
			185+03'WB	-	208+76'WB'	USH 12/18 WB, LT SHLD	-	3.50	-	-	-	-	-	74	
			444+61'LD'	-	445+71'LD'	MAAHIC WAY	1.75	1.75	-	26	-	-	36	36	
			462+24'LD'	-	464+39'LD'	MAAHIC WAY	3.75	1.75	-	49	-	-	148	69	
			10+22'LA'	-	10+80'LA'	LANDFILL ACCESS	3.75	1.75	-	35	-	-	105	49	
			680+57'A'	-	688+50'A'	GORE RAMP 'A'	-	3.50	-	-	-	-	-	138	
			682+90'A'	-	690+00'A'	RAMP 'A' LT SHOULDER	-	3.50	-	-	-	-	-	95	
			680+57'A'	-	690+00'A'	RAMP 'A' RT SHOULDER	-	3.50	-	-	-	-	-	150	
			804+75'C'	-	813+85'C'	RAMP 'C' LT SHOULDER	-	3.50	-	-	-	-	-	95	
			804+75'C'	-	811+51'C'	RAMP 'C' RT SHOULDER	-	3.50	-	-	-	-	-	90	
			982+86'D'	-	991+00'D'	RAMP 'D' LT SHOULDER	-	3.50	-	-	-	-	-	140	
			982+86'D'	-	991+00'D'	RAMP 'D' RT SHOULDER	-	3.50	-	-	-	-	-	80	
								STAGE 3A SUBTOTALS	0	110	0	0	289	1,669	
3080-01-76	0010	3B	211+11'EB'	-	224+00'EB'	USH 12/18 EB, RAMP B	-	3.50	-	-	-	-	-	144	
			704+75'B'	-	711+11'B'	RAMP 'B' LT SHOULDER	-	3.50	-	-	-	-	-	65	
			704+75'B'	-	711+11'B'	RAMP 'B' RT SHOULDER	-	3.50	-	-	-	-	-	70	
								STAGE 3B SUBTOTALS	0	0	0	0	0	279	
3080-01-76	0010	4A	118+59'EB'	-	131+92'EB'	USH 12/18 EB, RT SHLD	-	3.50	-	-	-	-	-	156	
			141+05'EB'	-	144+45'EB'	USH 12/18 EB, RT SHLD	-	3.50	-	-	-	-	-	59	
			144+45'EB'	-	146+95'EB'	USH 12/18 EB, RT SHLD	-	3.50	-	-	-	-	-	54	
			129+95'WB	-	172+56WB'	USH 12/18 WB, LT SHLD	-	3.50	-	-	-	-	-	559	
			31+91'E'	-	44+33'E'	USH 12/18 EB, RT RAMP	-	3.50	-	-	-	-	-	128	
								STAGE 4A SUBTOTALS	0	0	0	0	0	956	
3080-01-76	0010	4B	130+00'EB'	-	209+00'EB'	USH 12/18 EB, LT SHLD	-	3.50	691	-	-	-	-	691	
			155+46'EB'	-	156+14'EB'	USH 12/18 MEDIAN	-	3.50	28	-	-	-	-	28	
			129+95'WB	-	213+90'WB'	USH 12/18 WB, RT	-	3.50	731	-	-	-	-	731	
			213+90'EB'	-	214+10'EB'	USH 12/18 MEDIAN	-	3.50	18	-	-	-	-	18	
								STAGE 4B SUBTOTALS	1,468	0	0	0	0	1,468	
								TOTAL 0010	1,468	1,263	360	290	1,032	7,123	

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ASPHALTIC PAVEMENT ITEMS (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	LOWER LAYER THICKNESS IN	UPPER LAYER THICKNESS IN	450.4000 HMA COLD WEATHER PAVING TON	* 455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	REMARKS
3080-01-76	0020	1B	327+15'MP	-	340+00'MP'	MILLPOND RD	3.75	1.75	1,417	322	-	-	966	451	
						STAGE 1B SUBTOTALS			1,417	322	0	0	966	451	
3080-01-76	0020	1C	323+93'MP	-	324+32'MP'	MILLPOND RD	3.75	1.75	6	1	-	-	4	2	
			326+15'MP	-	330+95'MP'	MILLPOND RD	3.75	1.75	34	8	-	-	23	11	
						STAGE 1C SUBTOTALS			40	9	0	0	27	13	
3080-01-76	0020	2	8+97'GC'	-	9+81'GC'	GOLF COURSE ACCESS	3.75	1.75	-	29	-	-	86	40	
			375+20'MRE	-	377+25'MRE'	MAINTENANCE RD (EAST)	2	1.75	-	19	-	-	31	27	
						STAGE 2 SUBTOTALS			0	48	0	0	117	67	
3080-01-76	0020	3	346+83'MP	-	386+12'MP'	MILLPOND RD	3.75	1.75	-	1,177	-	-	3,532	1,648	
			386+12'MP	-	394+07'MPE'	MILLPOND RD	3.75	1.75	-	233	-	-	698	326	
						STAGE 3 SUBTOTALS			0	1,410	0	0	4,230	1,974	
3080-01-76	0020	4A	340+00'MP	-	343+66'MP'	MILLPOND RD	3.75	1.75	-	101	-	-	302	141	
			346+71'MP	-	346+82'MP'	MILLPOND RD	3.75	1.75	-	4	-	-	11	5	
						STAGE 4A SUBTOTALS			0	105	0	0	313	146	
3080-01-76	0020	4B	340+00'MP	-	348+44'MP'	MILLPOND RD SHOULDER	3.75	1.75	-	14	-	-	41	19	
			346+70'MP'		348+44'MP'	MILLPOND RD SHOULDER	3.75	1.75	-	7	-	-	21	10	
						STAGE 4B SUBTOTALS			0	21	0	0	62	29	
						TOTAL 0020			1,457	1,915	0	0	5,715	2,680	
						PROJECT TOTAL			2925	3178	360	290	6747	9803	

NOTES:
*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS
** TACK COAT APPLICATION RATE = 0.07 GAL/SY
*** ASSUMED ASPHALT AT 112 LBS/SY/IN

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TEMPORARY PAVEMENT ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	* 455.0605 TACK COAT GAL	* 465.0105 ASPHALTIC SURFACE TON	* 465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0305 ASPHALTIC SURFACE SAFETY ISLANDS TON	* 465.0310 ASPHALTIC CURB LF	* 623.0200 DUST CONTROL SURFACE TREATMENT SY	* 624.0100 WATER MGAL	REMARKS
3080-01-76	0010	1A	344+69'M1B'	-	345+98'M1B'	MILLPOND RD	101	13	-	38	-	-	182	0	INTERSECTION WORK
						STAGE 1A SUBTOTALS	101	13	0	38	0	0	182	0	
3080-01-76	0020	1B	344+30'M1B'		345+77'M1B'	MILLPOND RD	128	13	-	40	-	-	188	1	STAGE 1B, PHASE 1
			344+82'M1B'	-	345+60'M1B'	MILLPOND RD	49	6	-	19	-	94	88	0	STAGE 1B, PHASE 2
			344+69'M1B'	-	345+98'M1B'	MILLPOND RD	-	-	-	-	8	420	-	-	INTERSECTION RESTORATION
						STAGE 1B SUBTOTALS	177	19	0	59	8	514	276	1	
3080-01-76	0010	3A	209+00'EB'	-	227+00'EB'	USH 12/18 EB OUTSIDE SHOULDER	-	84	135	-	-	-	-	-	
						STAGE 3A SUBTOTALS	0	84	135	0	0	0	0	0	
						TOTAL 0010	278	116	135	97	8	514	458	1	
3080-01-76	0020	1A	326+19'M1B'	-	343+65'M1B'	MILLPOND RD	2,688	283	-	847	-	-	4,032	27	TEMP BYPASS ROAD 'M1B'
						STAGE 1A SUBTOTALS	2,688	283	0	847	0	0	4,032	27	
3080-01-76	0020	1B	343+94'M1B'	-	344+48'M1B'	YHGC ACCESS	88	11	-	33	-	30	158	1	YHGC ACCESS RESTORATION
			340+00'MP'	-	340+20'MP'	MILLPOND RD	40	4	-	13	-	-	62	0	PROPOSED TO EXISTING TRANSITION
						STAGE 1B SUBTOTALS	128	15	0	46	0	30	220	1	
3080-01-76	0020	3	340+00'M4A'		348+20'M4A'	MILLPOND RD	422	40	-	120	-	-	570	4	TEMP BYPASS ROAD 'M4A'
						STAGE 3 SUBTOTALS	422	40	0	120	0	0	570	4	
						TOTAL 0020	3,238	338	0	1,013	0	30	4,822	32	
						PROJECT TOTAL	3516	454	135	1110	8	544	5280	33	

NOTES:
*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS
** TACK COAT APPLICATION RATE = 0.07 GAL/SY
*** ASSUMED ASPHALT AT 112 LBS/SY/IN

ASPHALTIC SHOULDER RUMBLE STRIPS

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	465.0400 ASPHALTIC SHOULDER RUMBLE STRIPS LF
3080-01-76	0010	129+95'WB'	-	182+86'WB'	USH 12/18 WB, LT	5,291
		118+59'EB'		130+95'EB'	USH 12/18 EB, RT	1,236
		141+02'EB'	-	179+77'EB'	USH 12/18 EB, RT	3,875
		185+28'EB'	-	209+35'EB'	USH 12/18 EB, RT	2,407
		185+03'WB'	-	209+15'WB'	USH 12/18 WB, LT	2,412
		211+11'EB'	-	227+00'EB'	USH 12/18 EB, RT	1,589
		130+00'EB'	-	227+00'EB'	USH 12/18 EB, LT	9,700
		129+95'WB'	-	213+90'WB'	USH 12/18 WB, RT	8,395
					TOTAL 0010	34,905

TEMPORARY DRAINAGE ITEMS

520.2012	520.2018	520.2030	608.0115	524.0615	SPV.0060.16
CULVERT PIPE TEMPORARY 12-INCH LF	CULVERT PIPE TEMPORARY 18-INCH LF	CULVERT PIPE TEMPORARY 30-INCH LF	RELAID STORM SEWER 15-INCH LF	APRON ENDWALLS FOR CULVERT PIPE SALVAGED 15-INCH EACH	SPECIAL (16. TEMPORARY CONNECTION TO EXISTING STORM SEWER) EACH

PROJECT NUMBER	CATEGORY	***INLET STATION	***INLET OFFSET	***INLET ELEV. (FT)	***OUTLET STATION	***OUTLET OFFSET	***OUTLET ELEV. (FT)	SLOPE (%)	LOCATION	520.2012	520.2018	520.2030	608.0115	524.0615	SPV.0060.16	REMARKS
3080-01-76	0010	455+35'LD'	21.0' LT	865.62	455+35'LD'	21.0' RT	865.46	0.39%	MAAHIC WAY	-	-	42	-	-	-	TEMP PIPE FOR EARTH SETTLEMENT
		344+41'M1B'	30.5' LT						MILLPOND RD	-	-	-	-	-	1	TEMP CONNECTION BETWEEN EXISTING AND NEW PIPES
		182+25'EB'	28.0' LT	875.65	182+03'EB'	25.2' LT	875.55	0.50%	USH 12/18 MEDIAN	-	20	-	-	-	2	TEMP PIPE BETWEEN NEW STRUCTURE AND EXISTING PIPE
									TOTAL 0010	0	20	42	0	0	3	
3080-01-76	0020	331+84'M1B'	16.1' LT	861.00	331+84'M1B'	17.5' RT	860.00	2.98%	TEMP MILLPOND RD	34	-	-	-	-	-	
		332+75'M1B'	15.8' LT	861.37	332+75'M1B'	17.6' RT	860.35	3.04%	TEMP MILLPOND RD	34	-	-	-	-	-	
		335+10'M1B'	26.6' RT	858.80	335+10'M1B'	38.2' RT	858.50	0.00%	POND A	-	12	-	-	-	-	
		335+25'M1B'	15.2' LT	863.00	335+25'M1B'	17.2' RT	862.00	3.09%	TEMP MILLPOND RD	32	-	-	-	-	-	
		337+89'M1B'	25.6' RT	858.80	337+89'M1B'	37.2' RT	858.50	0.00%	POND A	-	12	-	-	-	-	
		338+00'M1B'	15.5' LT	864.00	338+00'M1B'	16.2' RT	863.34	2.09%	TEMP MILLPOND RD	32	-	-	-	-	-	
		344+33'MP'	45.3' RT	862.55	344+76'MP'	23.1' RT	862.68	0.28%	MILLPOND RD	-	-	-	46	1	-	
		345+23'MP'	58.9' RT	864.01	344+76'MP'	23.1' RT	862.68	2.27%	MILLPOND RD	-	-	-	58	1	-	
		345+65'M4A'	12.0' LT	862.10	345+80'M4A'	20.5' LT	864.26	12.00%	TEMP MILLPOND RD	-	18	-	-	-	1	TEMP CONNECTION TO EXISTING PIPE
									TOTAL 0020	132	42	0	104	2	1	
									PROJECT 3080-01-76 TOTAL	132	62	42	104	2	4	

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CULVERT ITEMS

PROJECT NUMBER	CATEGORY	***INLET STATION	***INLET OFFSET	***INLET ELEV. (FT)	***OUTLET STATION	***OUTLET OFFSET	***OUTLET ELEV. (FT)	SLOPE (%)	PIPE THICKNESS	LOCATION	* 520.8000 CONCRETE COLLARS FOR PIPE EACH	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	521.1618 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 10 TO 1 EACH	521.3118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF	522.0115 CULVERT PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.0136 CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH LF
3080-01-76	0010	140+38'EB	98.0' LT	860.79	140+39'EB	212.0' RT	859.89	0.29%		USH 12 / MILLPOND RD	-	-	-	-	-	-	-
		187+00'EB	163.1' LT	872.70	187+00'EB	136.6' RT	871.50	0.40%		USH 12 / MILLPOND RD	-	-	-	-	-	-	-
		213+72'EB	25.7' LT	864.96	214+27'EB	26.7' LT	864.60	0.64%		USH 12 MEDIAN	-	-	2	-	-	-	-
		440+35'LD	27.2' LT	861.54	440+35'LD	34.7' RT	860.74	1.13%		MAAHIC WAY	-	-	-	-	-	70	-
		446+00'LD	17.8' LT	866.20	446+00'LD	18.3' RT	866.02	0.50%		MAAHIC WAY	-	-	-	-	-	-	-
		455+35'LD	21.0' LT	865.62	455+35'LD	21.0' RT	865.46	0.39%		MAAHIC WAY	-	-	-	-	-	-	-
		455+34'LD	144.0' LT	866.12	455+34'LD	137.0' LT	866.00	1.69%		LANDFILL DR	1	-	-	-	-	-	-
		457+65'LD	23.0' LT	865.63	457+65'LD	23.0' RT	865.46	0.37%		MAAHIC WAY	-	-	-	-	-	-	-
		530+00 'LL	24.0' LT	889.63	530+00 'LL	26.0' RT	889.27	0.71%	0.064	LUDS LN	-	2	-	50	-	-	-
		534+50 'LL	29.2' RT	887.84	534+86 'LL	25.9' RT	887.68	0.39%	0.064	DRIVEWAY, RT	-	2	-	42	-	-	-
		690+50 'A'	47.8' LT	878.35	690+50 'A'	78.1' RT	874.50	3.06%		RAMP 'A'	-	-	-	-	-	126	-
		698+52 'B'	90.6' RT	879.00	699+19 'B'	74.8' LT	878.00	0.56%		RAMP 'B'	-	-	-	-	-	-	-
		706+07 'B'	26.1' LT	873.75	706+45 'B'	46.4' RT	872.00	2.13%		RAMP 'B'	-	-	-	-	-	82	-
		805+00 'C'	37.7' RT	873.30	805+00 'C'	54.3' LT	873.30	0.43%		RAMP 'C'	-	-	-	-	-	92	-
										TOTAL 0010	1	4	2	92	0	370	0
3080-01-76	0020	330+49'MP	31.6' LT	856.68	330+37'MP	49.5' RT	855.81	1.06%		MILLPOND RD	-	-	-	-	-	-	82
		329+44'MP	45.5' RT	861.80	329+57'MP	47.7' RT	861.00	5.51%		DRIVEWAY, RT	-	-	-	-	-	-	-
		330+85'MP	61.2' RT	859.50	330+57'MP	60.4' RT	858.00	4.65%		DRIVEWAY, RT	-	-	-	-	-	-	-
		340+90'MP	56.4' LT	860.19	340+90'MP	65.7' RT	858.90	1.06%		MILLPOND RD	-	-	-	-	-	-	-
		356+33'MP	106.6' RT	862.32	356+34'MP	123.7' RT	861.56	4.36%		YHGC MAINT RD	-	-	-	-	18	-	-
		386+71'MP	38.7' LT	871.30	386+43'MP	49.1' RT	871.00	0.33%		MILLPOND RD	-	-	-	-	-	-	-
		386+81'MP	35.8' LT	871.30	386+54'MP	52.4' RT	871.00	0.33%		MILLPOND RD	-	-	-	-	-	-	-
										TOTAL 0020	0	0	0	0	18	0	82
										PROJECT 3080-01-76 TOTAL	1	4	2	92	18	370	82

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS
** NON-BID ITEM: FOR INFORMATION ONLY
*** PIPE INVERT AT END OF PIPE & STATION/

CONTINUED ON NEXT PAGE

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CULVERT ITEMS (CONTINUED)

PROJECT NUMBER	CATEGORY	***INLET STATION	***INLET OFFSET	***INLET ELEV. (FT)	***OUTLET STATION	***OUTLET OFFSET	***OUTLET ELEV. (FT)	SLOPE (%)	PIPE THICKNESS	LOCATION	522.0148 CULVERT PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	522.0412 CULVERT PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	522.0415 CULVERT PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	522.0418 CULVERT PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	522.0430 CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	* 522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	* 522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH
3080-01-76	0010	140+38'EB'	98.0' LT	860.79	140+39'EB'	212.0' RT	859.89	0.29%		USH 12 / MILLPOND RD	-	-	-	-	-	-	-	-
		187+00'EB'	163.1' LT	872.70	187+00'EB'	136.6' RT	871.50	0.40%		USH 12 / MILLPOND RD	300	-	-	-	-	-	-	-
		213+72'EB'	25.7' LT	864.96	214+27'EB'	26.7' LT	864.60	0.64%		USH 12 MEDIAN	-	-	-	56	-	-	-	-
		440+35'LD'	27.2' LT	861.54	440+35'LD'	34.7' RT	860.74	1.13%		MAAHIC WAY	-	-	-	-	-	-	-	-
		446+00'LD'	17.8' LT	866.20	446+00'LD'	18.3' RT	866.02	0.50%		MAAHIC WAY	-	-	-	36	-	-	-	2
		455+35'LD'	21.0' LT	865.62	455+35'LD'	21.0' RT	865.46	0.39%		MAAHIC WAY	-	-	-	-	42	-	-	-
		455+34'LD'	144.0' LT	866.12	455+34'LD'	137.0' LT	866.00	1.69%		LANDFILL DR	-	8	-	-	-	1	-	-
		457+65'LD'	23.0' LT	865.63	457+65'LD'	23.0' RT	865.46	0.37%		MAAHIC WAY	-	-	-	-	46	-	-	-
		530+00 'LL'	24.0' LT	889.63	530+00 'LL'	26.0' RT	889.27	0.71%	0.064	LUDS LN	-	-	-	-	-	-	-	-
		534+50 'LL'	29.2' RT	887.84	534+86 'LL'	25.9' RT	887.68	0.39%	0.064	DRIVEWAY, RT	-	-	-	-	-	-	-	-
		690+50 'A'	47.8' LT	878.35	690+50 'A'	78.1' RT	874.50	3.06%		RAMP 'A'	-	-	-	-	-	-	-	-
		698+52 'B'	90.6' RT	879.00	699+19 'B'	74.8' LT	878.00	0.56%		RAMP 'B'	-	-	-	-	178	-	-	-
		706+07 'B'	26.1' LT	873.75	706+45 'B'	46.4' RT	872.00	2.13%		RAMP 'B'	-	-	-	-	-	-	-	-
		805+00 'C'	37.7' RT	873.30	805+00 'C'	54.3' LT	873.30	0.43%		RAMP 'C'	-	-	-	-	-	-	-	-
										TOTAL 0010	300	8	0	92	266	1	0	2
3080-01-76	0020	330+49'MP'	31.6' LT	856.68	330+37'MP'	49.5' RT	855.81	1.06%		MILLPOND RD	-	-	-	-	-	-	-	-
		329+44'MP'	45.5' RT	861.80	329+57'MP'	47.7' RT	861.00	5.51%		DRIVEWAY, RT	-	14	-	-	-	2	-	-
		330+85'MP'	61.2' RT	859.50	330+57'MP'	60.4' RT	858.00	4.65%		DRIVEWAY, RT	-	-	32	-	-	-	2	-
		340+90'MP'	56.4' LT	860.19	340+90'MP'	65.7' RT	858.90	1.06%		MILLPOND RD	-	-	-	122	-	-	-	2
		356+33'MP'	106.6' RT	862.32	356+34'MP'	123.7' RT	861.56	4.36%		YHGC MAINT RD	-	-	-	-	-	-	2	-
		386+71'MP'	38.7' LT	871.30	386+43'MP'	49.1' RT	871.00	0.33%		MILLPOND RD	92	-	-	-	-	-	-	-
		386+81'MP'	35.8' LT	871.30	386+54'MP'	52.4' RT	871.00	0.33%		MILLPOND RD	92	-	-	-	-	-	-	-
										TOTAL 0020	184	14	32	122	0	2	4	2
										PROJECT 3080-01-76 TOTAL	484	22	32	214	266	3	4	4

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS
** NON-BID ITEM: FOR INFORMATION ONLY
*** PIPE INVERT AT END OF PIPE & STATION/

CONTINUED ON NEXT PAGE

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CULVERT ITEMS (CONTINUED)

PROJECT NUMBER	CATEGORY	***INLET STATION	***INLET OFFSET	***INLET ELEV. (FT)	***OUTLET STATION	***OUTLET OFFSET	***OUTLET ELEV. (FT)	SLOPE (%)	PIPE THICKNESS	LOCATION	* 522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	* 522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	* 522.1048 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH EACH	522.2329 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29X45-INCH LF	522.2629 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29X45-INCH EACH	* 633.5200 MARKERS CULVERT END EACH	** JOINT TIES EACH	REMARKS
3080-01-76	0010	140+38'EB'	98.0' LT	860.79	140+39'EB'	212.0' RT	859.89	0.29%		USH 12 / MILLPOND RD	-	-	-	-	310	2	1	6	
		187+00'EB'	163.1' LT	872.70	187+00'EB'	136.6' RT	871.50	0.40%		USH 12 / MILLPOND RD	-	-	-	2	-	-	2	6	
		213+72'EB'	25.7' LT	864.96	214+27'EB'	26.7' LT	864.60	0.64%		USH 12 MEDIAN	-	-	-	-	-	-	-	12	
		440+35'LD'	27.2' LT	861.54	440+35'LD'	34.7' RT	860.74	1.13%		MAAHIC WAY	2	-	-	-	-	-	2	12	
		446+00'LD'	17.8' LT	866.20	446+00'LD'	18.3' RT	866.02	0.50%		MAAHIC WAY	-	-	-	-	-	-	2	12	
		455+35'LD'	21.0' LT	865.62	455+35'LD'	21.0' RT	865.46	0.39%		MAAHIC WAY	-	2	-	-	-	-	2	12	
		455+34'LD'	144.0' LT	866.12	455+34'LD'	137.0' LT	866.00	1.69%		LANDFILL DR	-	-	-	-	-	-	-	6	CONNECT TO EXIST PIPE
		457+65'LD'	23.0' LT	865.63	457+65'LD'	23.0' RT	865.46	0.37%		MAAHIC WAY	-	2	-	-	-	-	2	12	
		530+00 'LL'	24.0' LT	889.63	530+00 'LL'	26.0' RT	889.27	0.71%	0.064	LUDS LN	-	-	-	-	-	-	2	-	
		534+50 'LL'	29.2' RT	887.84	534+86 'LL'	25.9' RT	887.68	0.39%	0.064	DRIVEWAY, RT	-	-	-	-	-	-	-	-	
		690+50 'A'	47.8' LT	878.35	690+50 'A'	78.1' RT	874.50	3.06%		RAMP 'A'	2	-	-	-	-	-	2	12	
		698+52 'B'	90.6' RT	879.00	699+19 'B'	74.8' LT	878.00	0.56%		RAMP 'B'	-	2	-	-	-	-	2	12	
		706+07 'B'	26.1' LT	873.75	706+45 'B'	46.4' RT	872.00	2.13%		RAMP 'B'	2	-	-	-	-	-	2	12	
		805+00 'C'	37.7' RT	873.30	805+00 'C'	54.3' LT	873.30	0.43%		RAMP 'C'	2	-	-	-	-	-	2	12	
										TOTAL 0010	8	6	0	2	310	2	21		
3080-01-76	0020	330+49'MP'	31.6' LT	856.68	330+37'MP'	49.5' RT	855.81	1.06%		MILLPOND RD	-	-	2	-	-	-	2	12	
		329+44'MP'	45.5' RT	861.80	329+57'MP'	47.7' RT	861.00	5.51%		DRIVEWAY, RT	-	-	-	-	-	-	-	12	
		330+81'MP'	50.6' RT	860.20	330+65'MP'	52.5' RT	859.70	2.78%		DRIVEWAY, RT	-	-	-	-	-	-	-	12	
		340+90'MP'	56.4' LT	860.19	340+90'MP'	65.7' RT	858.90	1.06%		MILLPOND RD	-	-	-	-	-	-	2	12	
		356+33'MP'	106.6' RT	862.32	356+34'MP'	123.7' RT	861.56	4.36%		YHGC MAINT RD	-	-	-	-	-	-	-	12	
		386+71'MP'	38.7' LT	871.30	386+43'MP'	49.1' RT	871.00	0.33%		MILLPOND RD	-	-	-	2	-	-	1	12	
		386+81'MP'	35.8' LT	871.30	386+54'MP'	52.4' RT	871.00	0.33%		MILLPOND RD	-	-	-	2	-	-	1	12	
										TOTAL 0020	0	0	2	4	0	0	6		
										PROJECT 3080-01-76 TOTAL	8	6	2	6	310	2	27		

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS
** NON-BID ITEM: FOR INFORMATION ONLY
*** PIPE INVERT AT END OF PIPE & STATION

CONCRETE CURB & GUTTER

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0580 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R LF
3080-01-76	0010	2	692+64'A'	-	695+12'A'	RAMP 'A' LT	247	-	-	-	-
			692+64'A'	-	695+07'A'	RAMP 'A' RT	251	-	-	-	-
			799+26'C'	-	801+56'C'	RAMP 'C' LT	240	-	-	-	-
			799+21'C'	-	801+56'C'	RAMP 'C' RT	235	-	-	-	-
						STAGE 2 SUBTOTALS	973	0	0	0	0
3080-01-76	0010	3	463+39'LD'	-	471+00'LD'	MAAHIC WAY	-	762	-	-	-
			10+14'LA'	-	10+83'LA'	LANDFILL DR	-	74	-	-	-
			475+00'LD'	-	486+21'LD'	MAAHIC WAY	-	1,137	-	-	-
						STAGE 3 SUBTOTALS	0	1,973	0	0	0
3080-01-76	0010	4A	141+02'EB'	-	144+45'EB'	US 12/18 EB, RT SHLD	-	-	-	343	-
			40+93'E'	-	44+33'E'	RAMP 'E'	24	-	442	-	-
						STAGE 4A SUBTOTALS	24	0	442	343	0
						TOTAL 0010	997	1,973	442	343	0
3080-01-76	0020	1B	327+15'MP	-	329+05'MP'	MILLPOND RD, LT	-	190	-	-	-
			330+95'MP	-	340+00'MP'	MILLPOND RD, RT	-	891	-	-	-
			330+54'MP	-	340+00'MP'	MILLPOND RD, LT	-	959	-	-	-
			10+18'LR'	-	10+87'LR'	LONG DR (SOUTH)	-	171	-	-	-
						STAGE 1B SUBTOTALS	0	2,211	0	0	0
3080-01-76	0020	1C	323+96'MP	-	324+31'MP'	MILLPOND RD, LT	-	44	-	-	-
			323+95'MP	-	324+32'MP'	MILLPOND RD, RT	-	35	-	-	-
			326+14'MP	-	330+95'MP'	MILLPOND RD, LT	-	486	-	-	-
						STAGE 1C SUBTOTALS	0	565	0	0	0
3080-01-76	0020	3	346+81'MP	-	390+20'MP'	MILLPOND RD, RT	-	4,179	-	-	-
			348+44'MP	-	390+20'MP'	MILLPOND RD, LT	-	4,183	-	-	-
			390+20'MPI	-	394+07'MPE'	MILLPOND RD	-	776	-	-	-
			10+15'LR'	-	10+87'LR'	LONG DR INTERSECTION	-	177	-	-	-
						STAGE 3 SUBTOTALS	0	9,315	0	0	0
3080-01-76	0020	4A	44+33'E'	-	44+79'E'	RAMP 'E'	44	-	63	-	-
			45+43'E'	-	45+64'E'	RAMP 'E'	21	-	-	-	-
			8+97'GC'	-	9+34'GC'	GOLF COURSE ACCESS, LT	-	37	-	-	-
			10+00'MI'	-	12+95'MI'	MILLPOND RD RAB	-	-	-	-	283
			12+13'MI'	-	12+22'MI'	MILLPOND RD RAB, RT	9	-	-	-	-
			10+61'MI'	-	10+80'MI'	MILLPOND RD RAB, RT	19	-	-	-	-
			340+00'MP	-	342+09'MP'	MILLPOND RD	-	246	-	-	-
			342+09'MP	-	344+68'MP'	MILLPOND RD	186	140	-	-	-
			342+09'ME	-	346+90'ME'	MILLPOND RD	570	9	-	-	-
			345+20'MP	-	346+70'MP'	MILLPOND RD	236	-	-	-	-
						STAGE 4A SUBTOTALS	1,085	432	63	0	283
3080-01-76	0020	4B	44+79'E'	-	45+43'E'	RAMP E	62	-	52	-	-
			340+00'MP	-	341+69'MP'	MILLPOND RD	-	172	-	-	-
			346+70'MP	-	348+44'MP'	MILLPOND RD	-	182	-	-	-
						STAGE 4B SUBTOTALS	62	354	52	0	0
						TOTAL 0020	1,147	12,877	115	0	283
						PROJECT 3080-01-76 TOTAL	2144	14850	557	343	283

SIDEWALK AND PATH ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	* 465.0105 ASPHALTIC SURFACE TON	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0415 CONCRETE SIDEWALK 6-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.0615 CURB RAMP DETECTABLE WARNING FIELD RADIAL NATURAL PATINA SF	REMARKS
3080-01-76	0010	4A	35+49'E'	-	44+33'E'	USH 12/18 EB AUX RAMP 'E'	95	-	-	-	2,554	-	-	
						STAGE 4A SUBTOTALS	95	0	0	0	2,554	0	0	
						TOTAL 0010	95	0	0	0	2,554	0	0	
3080-01-76	0020	1B	327+21'MP'	-	329+10'MP'	MILLPOND RD, LT SIDEWALK	44	-	-	1,195	-	12	-	
			329+10'MP'			CURB RAMP, LT	3	-	-	93	-	-	-	
						STAGE 1B SUBTOTALS	47	0	0	1,288	0	12	0	
3080-01-76	0020	1C	323+99'MP'	-	340+00'MP'	MILLPOND RD, RT PATH	620	188	-	3,370	-	-	-	
			324+25'MP'			CURB RAMP, RT	2	-	-	33	-	10	-	
			324+25'MP'			CURB RAMP, LT	4	-	-	102	-	10	-	
			329+07'MP'			CURB RAMP, RT	2	-	-	35	-	12	-	
						STAGE 1C SUBTOTALS	628	188	0	3,540	0	32	0	
3080-01-76	0020	2	58+90'MRW'	-	63+60'MRW'	MAINTENANCE RD (WEST)	279	-	-	-	-	-	-	
			369+70'MRE'	-	383+40'MRE'	MAINTENANCE RD (EAST)	812	46	-	-	-	-	-	EMERGENCY SPILLWAY
			383+40'MRE'	-	385+10'MRE'	MAINTENANCE RD (EAST)	101	-	-	-	-	-	-	
						STAGE 2 SUBTOTALS	1,192	46	0	0	0	0	0	
3080-01-76	0020	3	348+77'MP'			CURB RAMP,RT	5	-	-	-	136	-	26	
			348+77'MP'	-	386+11'MP'	MILLPOND RD, RT PATH	1,652	694	-	-	-	-	-	
						STAGE 3 SUBTOTALS	1,657	694	0	0	136	0	26	
3080-01-76	0020	4A	340+00'MP'	-	346+15'MP'	MILLPOND RD, RT PATH	277	116	-	-	-	-	-	
			343+66'MP'	-	344+50'MP'	MILLPOND RD, ISLAND	17	-	462	-	-	-	-	
			344+41'MP'	-	346+70'MP'	MILLPOND RD, ISLAND	41	-	1,094	-	-	-	-	
			346+16'MP'	-	347+07'MP'	MILLPOND RD, RT PATH	42	18	-	-	-	-	-	
			347+07'MP'	-	347+73'MP'	MILLPOND RD, RT PATH	26	11	-	-	-	-	-	
			347+73'MP'			CURB RAMP,RT	6	-	-	-	165	-	32	
			386+11'MP'	-	394+07'MP'	MILLPOND RD, RT PATH	357	150	-	-	-	-	-	
						STAGE 4A SUBTOTALS	766	295	1,556	0	165	0	32	
						TOTAL 0020	4,290	1,223	1,556	4,828	301	44	58	
						PROJECT 3080-01-76 TOTAL	4385	1223	1556	4828	2855	44	58	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

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CONCRETE BARRIER ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	501.1000.S ICE HOT WEATHER CONCRETING LB	603.1142 CONCRETE BARRIER TYPE S42 LF
3080-01-76	0010	2	146+95'EB'	-	179+00'EB'	RT	3,470	3,205
				-		STAGE 2 SUBTOTALS	3,470	3,205
3080-01-76	0010	3	179+00'EB'	-	180+57'EB'	RT	170	157
	0010		176+16'WB	-	182+85'WB'	LT	725	669
	0010		680+57'A'	-	686+51'A'	RAMP 'A'	640	592
	0010		982+86'D'	-	991+00'D'	RAMP 'D'	880	811
	0010		196+34'EB'	-	198+09'EB'	RT	190	175
	0010		196+34'WB	-	198+09'WB'	LT	190	175
						STAGE 3 SUBTOTALS	2,795	2,579
3080-01-76	0010	4A	120+70'EB'	-	121+10'EB'	RT	45	40
	0010		33+96'E'	-	34+36'E'	RT	45	40
						STAGE 4A SUBTOTALS	90	80
						TOTAL 0010	6,355	5,864

CONCRETE BARRIER TEMPORARY PRECAST ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	614.0905 CRASH CUSHIONS TEMPORARY EACH	BACK WIDTH (FT)	SIGN PLATE	CRASH TEST LEVEL	TRAFFIC LOCATION
3080-01-76	0010	2A	194+45'EB'	-	200+45'EB'	USH 12/18	600	600	1	2	W05-58L	TL-3	RT
			195+52'WB'	-	200+02'WB'	USH 12/18	450	450	1	2	W05-58L	TL-3	RT
						STAGE 2 SUBTOTALS	1,050	1,050	2				
3080-01-76	0010	2B	194+38'EB'	-	198+13'EB'	USH 12/18	375	375	1	2	W05-58R	TL-3	LT
			196+30'WB'	-	200+05'WB'	USH 12/18	375	375	1	2	W05-58R	TL-3	LT
						STAGE 2 SUBTOTALS	750	750	2				
3080-01-76	0010	4A	115+33'EB'	-	148+08'EB'	USH 12/18	3,275	3,275	1	2	W05-58R	TL-3	LT
						STAGE 2/3 SUBTOTALS	3,275	3,275	1				
						TOTAL 0010	5,075	5,075	5				
3080-01-76	0020	1B	PHASE 1			MILLPOND RD INTERS	125	125	-				
			PHASE 2			MILLPOND RD INTERS	25	150	-				
						STAGE 1B SUBTOTALS	150	275	0				
						TOTAL 0020	150	275	0				
						PROJECT 3080-01-76 TOTAL	5225	5350	5				

POND A DRAINAGE ITEMS

PROJECT NUMBER	CATEGORY	FROM		TO	LOCATION	* 522.1042 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH EACH	* 608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	SPV.0060.10 SPECIAL (10. OUTLET CONTROL STRUCTURE POND A) EACH	SPV.0060.21 SPECIAL (21. DEWATERING FOR POND A) LS
3080-01-76	0010	A1	-	A2	POND A	1	18	1	-
		A2	-	A3	POND A	1	15	-	-
					POND A	-	-	-	1
					TOTAL 0010	2	33	1	1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

POND B DRAINAGE ITEMS

PROJECT NUMBER	CATEGORY	FROM		TO	LOCATION	* 522.0112 CULVERT PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	* 522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	* 522.1042 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH EACH	* 608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	SPV.0060.11 SPECIAL (11. OUTLET CONTROL STRUCTURE POND B) EACH	SPV.0060.22 SPECIAL (22. DEWATERING FOR POND B) LS
3080-01-76	0010	B1	-	B2	POND B	6	2	-	-	-	-
	0010	B3	-	B4	POND B	-	-	1	25	1	1
					TOTAL 0010	6	2	1	25	1	1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

POND C DRAINAGE ITEMS

PROJECT NUMBER	CATEGORY	FROM		TO	LOCATION	* 522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	* 608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	SPV.0060.14 SPECIAL (14. OUTLET CONTROL STRUCTURE POND C) EACH
3080-01-76	0010	C1	-	C2	POND C	1	44	1
					TOTAL 0010	1	44	1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

POND D DRAINAGE ITEMS

PROJECT NUMBER	CATEGORY	FROM		TO	LOCATION	* 522.0112 CULVERT PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	* 522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	* 608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	SPV.0060.12 SPECIAL (12. OUTLET CONTROL STRUCTURE POND D) EACH	SPV.0060.13 SPECIAL (13. ORIFICE PLATE RESTRICTOR 6-INCH) EACH
3080-01-76	0010	D1	-	D2	POND D	18	1	-	-	1
		D3	-	D4	POND D	-	1	26	1	-
					TOTAL 0010	18	2	26	1	1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

POND CLAY LINER

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	640.1303.S POND LINER CLAY CY
3080-01-76	0010	2B	POND C	1,650
		2B	POND D	1,180
			TOTAL 0010	2,830

CLAY ANTI-SEEP COLLAR

PROJECT NUMBER	CATEGORY	LOCATION	SPV.0060.65 SPECIAL (65. CLAY ANTI-SEEP COLLAR) EACH
3080-01-76	0010	POND A	1
		POND B	2
		POND C	1
		POND D	2
		TOTAL 0010	6

STORM SEWER PIPES

PROJECT NUMBER	CATEGORY	FROM		TO	* 520.8000 CONCRETE COLLARS FOR PIPE EACH	520.8700 CLEANING CULVERT PIPES EACH	* 608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	* 608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	** JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION
3080-01-76	0010	1	-	EXIST	1	-	-	-	5	-	-	-	859.89	859.85
		EXIST	-	2	1	1	-	-	15	-	-	-	859.52	859.48
		3	-	4	-	-	-	-	-	-	-	-	862.88	862.87
		4	-	5	-	-	-	-	-	-	-	-	862.35	862.20
		EXIST	-	10	-	1	-	-	-	-	-	-	-	-
		10	-	11	-	-	-	-	37	-	-	-	862.24	862.12
		12	-	13	-	-	-	-	-	86	-	-	864.80	864.55
		13	-	16	-	-	-	-	-	109	-	-	864.53	864.01
		EXIST	-	17	-	1	-	-	-	-	-	-	-	-
		17	-	18	-	-	-	-	14	-	-	-	869.86	869.69
		EXIST	-	20	-	1	-	-	-	-	-	-	-	-
		20	-	21	-	-	-	-	14	-	-	-	870.97	870.89
		24	-	25	-	-	-	-	14	-	-	-	873.75	873.64
		28	-	29	-	-	14	-	-	-	-	-	876.05	875.93
		32	-	33	-	-	-	-	-	141	-	6	874.00	872.69
		33	-	34	-	-	-	-	-	161	-	6	872.65	871.00
		36	-	EXIST	1	-	-	-	-	9	-	-	876.41	876.40
		37	-	38	-	-	-	-	95	-	-	-	874.07	873.15
		EXIST	-	39	1	-	-	-	-	-	-	6	871.16	870.69
		64	-	62	-	-	-	-	-	-	-	6	860.53	859.50
		11	-	64	-	-	-	-	-	-	-	-	861.29	860.55
		78	-	11	-	-	-	-	-	-	-	-	861.85	861.31
		82	-	81	-	-	-	-	-	-	-	-	865.56	865.44
		83	-	78	-	-	-	-	-	-	-	-	862.52	861.87
		85	-	84	-	-	14	-	-	-	-	-	866.19	866.07
		86	-	83	-	-	-	-	-	-	-	-	862.89	862.54
		87	-	86	-	-	-	-	-	-	-	-	863.18	862.89
		89	-	88	-	-	14	-	-	-	-	-	866.77	866.65
		16	-	87	-	-	-	-	-	-	-	-	863.99	863.20
		90	-	16	-	-	-	-	-	-	50	-	864.66	864.51

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS
**NON-BID ITEM: FOR INFORMATION ONLY

CONTINUED ON NEXT PAGE

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STORM SEWER PIPES (CONTINUED)

PROJECT NUMBER	CATEGORY	FROM		TO	* 520.8000 CONCRETE COLLARS FOR PIPE EACH	520.8700 CLEANING CULVERT PIPES EACH	* 608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	* 608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	** JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION
3080-01-76	0010	92	-	90	-	-	-	-	-	-	359	-	865.91	864.66
		14	-	91	-	-	14	-	-	-	-	-	869.90	869.78
		94	-	93	-	-	14	-	-	-	-	-	869.47	869.25
		95	-	94	-	-	10	-	-	-	-	-	869.69	869.61
		96	-	92	-	-	-	-	-	-	20	-	866.01	865.93
		19	-	96	-	-	-	-	-	-	389	-	867.33	866.01
		97	-	19	-	-	-	-	-	-	20	-	867.41	867.35
		98	-	97	-	-	-	-	-	-	510	-	869.15	867.41
		23	-	98	-	-	-	-	-	-	22	-	869.24	869.15
		99	-	23	-	-	-	-	-	-	118	-	869.61	869.26
		100	-	99	-	-	-	-	-	-	256	-	870.53	869.61
		102	-	101	-	-	14	-	-	-	-	-	873.62	873.50
		POND B OUT	-	100	-	-	-	-	-	-	133	-	871.00	870.55
		117	-	116	-	-	-	54	-	-	-	6	873.63	873.10
		118	-	117	-	-	21	-	-	-	-	-	874.34	874.15
		120	-	119	-	-	-	45	-	-	-	6	882.15	881.71
		200	-	201	-	-	-	-	-	-	-	-	877.01	876.93
		203	-	201	-	-	-	-	-	-	-	-	876.99	876.93
		201	-	204	-	-	-	-	-	-	-	6	876.41	876.24
		207	-	206	-	-	18	-	-	-	-	-	876.30	876.23
		206	-	208	-	-	-	-	-	-	-	6	875.71	875.50
		215	-	217	-	-	-	-	-	-	-	6	875.61	875.30
		210	-	211	-	-	16	-	-	-	-	-	877.11	877.03
		211	-	214	-	-	-	-	-	-	-	6	876.51	876.31
		212	-	211	-	-	-	-	-	-	-	-	877.11	877.03
		216	-	210	-	-	20	-	-	-	-	-	877.29	877.21
		588	-	589	-	-	20	-	-	-	-	-	876.37	876.27
		589	-	590	-	-	-	20	-	-	-	6	875.77	875.67
		591	-	592	-	-	-	22	-	-	-	6	876.00	875.34
	TOTAL 0010				4	4	189	141	194	506	1,877			

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

**NON-BID ITEM: FOR INFORMATION ONLY

CONTINUED ON NEXT PAGE

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STORM SEWER PIPES (CONTINUED)

PROJECT NUMBER	CATEGORY	FROM		TO	* 520.8000 CONCRETE COLLARS FOR PIPE EACH	520.8700 CLEANING CULVERT PIPES EACH	* 608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	* 608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	** JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION
3080-01-76	0020	6	-	7	-	-	-	-	-	-	-	-	863.04	862.94
		7	-	8	-	-	-	-	-	-	-	-	862.82	862.71
		8	-	9	-	-	-	-	-	-	-	-	862.59	862.51
		18	-	19	-	-	-	-	36	-	-	-	869.49	868.90
		21	-	23	-	-	-	-	36	-	-	-	870.74	870.44
		25	-	26	-	-	-	-	36	-	-	-	873.52	873.19
		26	-	27	-	-	-	-	44	-	-	6	871.57	870.25
		29	-	30	-	-	36	-	-	-	-	-	875.81	875.48
		30	-	31	-	-	-	48	-	-	-	6	871.57	870.25
		40	-	45	-	-	-	-	-	-	-	-	859.17	858.34
		41	-	40	-	-	-	-	-	-	-	-	860.36	859.46
		43	-	45	-	-	-	-	-	-	-	-	859.51	858.64
		45	-	46	-	-	-	40	-	-	-	-	858.07	857.89
		47	-	46	-	-	-	27	-	-	-	-	858.13	857.90
		46	-	44	-	-	-	-	-	-	-	6	857.37	856.99
		48	-	49	-	-	-	25	-	-	-	6	857.05	856.82
		50	-	51	-	-	-	-	-	-	-	-	858.68	858.60
		51	-	52	-	-	-	-	-	-	-	-	858.33	858.17
		52	-	53	-	-	-	13	-	-	-	-	857.90	857.85
		54	-	51	-	-	-	-	-	-	-	-	858.69	858.60
		55	-	52	-	-	-	-	-	-	-	-	858.25	858.17
		57	-	56	-	-	-	47	-	-	-	6	858.94	858.50
		58	-	57	-	-	-	-	-	-	-	-	859.79	859.46
		60	-	59	-	-	-	46	-	-	-	6	859.52	858.50
		61	-	60	-	-	35	-	-	-	-	-	860.39	860.06
		60A	-	60	-	-	10	-	-	-	-	-	860.14	860.06
		65	-	64	-	-	-	-	56	-	-	-	862.09	861.85
		66	-	65	-	-	-	-	-	-	-	-	863.31	863.11
		67	-	66	-	-	-	-	-	-	-	-	863.46	863.43
		68	-	67	-	-	-	-	-	-	-	-	863.72	863.58

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

**NON-BID ITEM: FOR INFORMATION ONLY

CONTINUED ON NEXT PAGE

3

STORM SEWER PIPES (CONTINUED)

PROJECT NUMBER	CATEGORY	FROM		TO	* 520.8000 CONCRETE COLLARS FOR PIPE EACH	520.8700 CLEANING CULVERT PIPES EACH	* 608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	* 608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	** JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION
3080-01-76	0020	69	-	63	-	-	-	129	-	-	-	-	859.76	858.50
		70	-	69	-	-	-	-	-	-	-	-	860.43	860.30
		71	-	70	-	-	-	-	-	-	-	-	860.70	860.57
		72	-	70	-	-	-	-	-	-	-	-	860.99	860.57
		73	-	11	-	-	-	-	-	-	-	-	862.40	862.33
		74	-	73	-	-	-	-	-	-	-	-	863.63	863.43
		75	-	73	-	-	-	-	-	-	-	-	862.77	862.53
		76	-	75	-	-	-	-	-	-	-	-	863.96	863.79
		77	-	75	-	-	-	-	-	-	-	-	863.03	862.86
		79	-	78	-	-	-	-	25	-	-	-	864.08	863.89
		80	-	79	-	-	-	-	37	-	-	-	864.55	864.22
		81	-	78	-	-	-	-	-	-	-	-	865.32	864.89
		84	-	83	-	-	43	-	-	-	-	-	865.95	865.56
		88	-	87	-	-	36	-	-	-	-	-	866.53	866.22
		15	-	91	-	-	-	-	-	-	-	-	869.96	869.78
		91	-	90	-	-	-	-	-	-	-	-	869.51	869.18
		93	-	92	-	-	35	-	-	-	-	-	869.09	868.48
		101	-	100	-	-	35	-	-	-	-	-	873.38	873.07
		104	-	103	-	-	-	41	-	-	-	6	871.56	870.25
		105	-	104	-	-	20	-	-	-	-	-	873.33	873.15
		106	-	105	-	-	20	-	-	-	-	-	873.33	873.15
		107	-	105	-	-	35	-	-	-	-	-	873.48	873.15
		108	-	107	-	-	21	-	-	-	-	-	873.79	873.60
		110	-	109	-	-	-	25	-	-	-	6	873.20	872.97
		111	-	110	-	-	35	-	-	-	-	-	876.13	875.80
		112	-	111	-	-	20	-	-	-	-	-	876.43	876.25
		114	-	113	-	-	-	27	-	-	-	6	874.46	874.20
		115	-	114	-	-	50	-	-	-	-	-	878.34	877.86
TOTAL 0020					0	0	431	468	270	0	0			
PROJECT 3080-01-76 TOTAL					4	4	620	609	464	506	1877			

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS
**NON-BID ITEM: FOR INFORMATION ONLY

CONTINUED ON NEXT PAGE

3

STORM SEWER PIPES (CONTINUED)

PROJECT NUMBER	CATEGORY	FROM		TO	608.0348 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0448 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 48-INCH LF	** JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION
3080-01-76	0010	1	-	EXIST	-	-	-	-	-	-	-	859.89	859.85
		EXIST	-	2	-	-	-	-	-	-	-	859.52	859.48
		3	-	4	-	7	-	-	-	-	-	862.88	862.87
		4	-	5	-	-	-	34	-	-	-	862.35	862.20
		EXIST	-	10	-	-	-	-	-	-	-	-	-
		10	-	11	-	-	-	-	-	-	-	862.24	862.12
		12	-	13	-	-	-	-	-	-	-	864.80	864.55
		13	-	16	-	-	-	-	-	-	-	864.53	864.01
		EXIST	-	17	-	-	-	-	-	-	-	-	-
		17	-	18	-	-	-	-	-	-	-	869.86	869.69
		EXIST	-	20	-	-	-	-	-	-	-	-	-
		20	-	21	-	-	-	-	-	-	-	870.97	870.89
		24	-	25	-	-	-	-	-	-	-	873.75	873.64
		28	-	29	-	-	-	-	-	-	-	876.05	875.93
		32	-	33	-	-	-	-	-	-	6	874.00	872.69
		33	-	34	-	-	-	-	-	-	6	872.65	871.00
		36	-	EXIST	-	-	-	-	-	-	-	876.41	876.40
		37	-	38	-	-	-	-	-	-	-	874.07	873.15
		EXIST	-	39	-	-	-	-	48	-	6	871.16	870.69
		64	-	62	-	-	-	-	-	295	6	860.53	859.50
		11	-	64	-	-	-	-	-	276	-	861.29	860.55
		78	-	11	-	-	-	-	-	196	-	861.85	861.31
		82	-	81	-	14	-	-	-	-	-	865.56	865.44
		83	-	78	230	-	-	-	-	-	-	862.52	861.87
		85	-	84	-	-	-	-	-	-	-	866.19	866.07
		86	-	83	116	-	-	-	-	-	-	862.89	862.54
		87	-	86	116	-	-	-	-	-	-	863.18	862.89
		89	-	88	-	-	-	-	-	-	-	866.77	866.65
		16	-	87	281	-	-	-	-	-	-	863.99	863.20
		90	-	16	-	-	-	-	-	-	-	864.66	864.51

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

**NON-BID ITEM: FOR INFORMATION ONLY

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STORM SEWER PIPES (CONTINUED)

PROJECT NUMBER	CATEGORY	FROM		TO	608.0348 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0448 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 48-INCH LF	** JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION
3080-01-76	0010	92	-	90	-	-	-	-	-	-	-	865.91	864.66
		14	-	91	-	-	-	-	-	-	-	869.90	869.78
		94	-	93	-	-	-	-	-	-	-	869.47	869.25
		95	-	94	-	-	-	-	-	-	-	869.69	869.61
		96	-	92	-	-	-	-	-	-	-	866.01	865.93
		19	-	96	-	-	-	-	-	-	-	867.33	866.01
		97	-	19	-	-	-	-	-	-	-	867.41	867.35
		98	-	97	-	-	-	-	-	-	-	869.15	867.41
		23	-	98	-	-	-	-	-	-	-	869.24	869.15
		99	-	23	-	-	-	-	-	-	-	869.61	869.26
		100	-	99	-	-	-	-	-	-	-	870.53	869.61
		102	-	101	-	-	-	-	-	-	-	873.62	873.50
		POND B OUT	-	100	-	-	-	-	-	-	-	871.00	870.55
		117	-	116	-	-	-	-	-	-	6	873.63	873.10
		118	-	117	-	-	-	-	-	-	-	874.34	874.15
		120	-	119	-	-	-	-	-	-	6	882.15	881.71
		200	-	201	-	21	-	-	-	-	-	877.01	876.93
		203	-	201	-	16	-	-	-	-	-	876.99	876.93
		201	-	204	-	-	-	36	-	-	6	876.41	876.24
		207	-	206	-	-	-	-	-	-	-	876.30	876.23
		206	-	208	-	-	-	44	-	-	6	875.71	875.50
		215	-	217	-	-	-	63	-	-	6	875.61	875.30
		210	-	211	-	-	-	-	-	-	-	877.11	877.03
		211	-	214	-	-	-	43	-	-	6	876.51	876.31
		212	-	211	-	20	-	-	-	-	-	877.11	877.03
		216	-	210	-	-	-	-	-	-	-	877.29	877.21
		588	-	589	-	-	-	-	-	-	-	876.37	876.27
		589	-	590	-	-	-	-	-	-	6	875.77	875.67
		591	-	592	-	-	-	-	-	-	6	876.00	875.34
	TOTAL 0010				743	78	0	220	48	767			

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

**NON-BID ITEM: FOR INFORMATION ONLY

CONTINUED ON NEXT PAGE

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STORM SEWER PIPES (CONTINUED)

PROJECT NUMBER	CATEGORY	FROM		TO	608.0348 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0448 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 48-INCH LF	** JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION
3080-01-76	0020	6	-	7	-	20	-	-	-	-	-	863.04	862.94
		7	-	8	-	26	-	-	-	-	-	862.82	862.71
		8	-	9	-	-	-	19	-	-	-	862.59	862.51
		18	-	19	-	-	-	-	-	-	-	869.49	868.90
		21	-	23	-	-	-	-	-	-	-	870.74	870.44
		25	-	26	-	-	-	-	-	-	-	873.52	873.19
		26	-	27	-	-	-	-	-	-	6	871.57	870.25
		29	-	30	-	-	-	-	-	-	-	875.81	875.48
		30	-	31	-	-	-	-	-	-	6	871.57	870.25
		40	-	45	-	-	171	-	-	-	-	859.17	858.34
		41	-	40	-	39	-	-	-	-	-	860.36	859.46
		43	-	45	-	39	-	-	-	-	-	859.51	858.64
		45	-	46	-	-	-	-	-	-	-	858.07	857.89
		47	-	46	-	-	-	-	-	-	-	858.13	857.90
		46	-	44	-	-	-	-	79	-	6	857.37	856.99
		48	-	49	-	-	-	-	-	-	6	857.05	856.82
		50	-	51	-	10	-	-	-	-	-	858.68	858.60
		51	-	52	-	-	36	-	-	-	-	858.33	858.17
		52	-	53	-	-	-	-	-	-	-	857.90	857.85
		54	-	51	-	21	-	-	-	-	-	858.69	858.60
		55	-	52	-	20	-	-	-	-	-	858.25	858.17
		57	-	56	-	-	-	-	-	-	6	858.94	858.50
		58	-	57	-	35	-	-	-	-	-	859.79	859.46
		60	-	59	-	-	-	-	-	-	6	859.52	858.50
		61	-	60	-	-	-	-	-	-	-	860.39	860.06
		60A	-	60	-	-	-	-	-	-	-	860.14	860.06
		65	-	64	-	-	-	-	-	-	-	862.09	861.85
		66	-	65	-	40	-	-	-	-	-	863.31	863.11
		67	-	66	-	11	-	-	-	-	-	863.46	863.43
		68	-	67	-	32	-	-	-	-	-	863.72	863.58

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS
**NON-BID ITEM: FOR INFORMATION ONLY

CONTINUED ON NEXT PAGE

3

STORM SEWER PIPES (CONTINUED)

PROJECT NUMBER	CATEGORY	FROM		TO	608.0348 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0448 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 48-INCH LF	** JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION
3080-01-76	0020	69	-	63	-	-	-	-	-	-	-	859.76	858.50
		70	-	69	-	17	-	-	-	-	-	860.43	860.30
		71	-	70	-	17	-	-	-	-	-	860.70	860.57
		72	-	70	-	47	-	-	-	-	-	860.99	860.57
		73	-	11	-	-	-	-	15	-	-	862.40	862.33
		74	-	73	-	44	-	-	-	-	-	863.63	863.43
		75	-	73	-	-	-	-	52	-	-	862.77	862.53
		76	-	75	-	38	-	-	-	-	-	863.96	863.79
		77	-	75	-	-	-	-	33	-	-	863.03	862.86
		79	-	78	-	-	-	-	-	-	-	864.08	863.89
		80	-	79	-	-	-	-	-	-	-	864.55	864.22
		81	-	78	-	48	-	-	-	-	-	865.32	864.89
		84	-	83	-	-	-	-	-	-	-	865.95	865.56
		88	-	87	-	-	-	-	-	-	-	866.53	866.22
		15	-	91	-	20	-	-	-	-	-	869.96	869.78
		91	-	90	-	-	36	-	-	-	-	869.51	869.18
		93	-	92	-	-	-	-	-	-	-	869.09	868.48
		101	-	100	-	-	-	-	-	-	-	873.38	873.07
		104	-	103	-	-	-	-	-	-	6	871.56	870.25
		105	-	104	-	-	-	-	-	-	-	873.33	873.15
		106	-	105	-	-	-	-	-	-	-	873.33	873.15
		107	-	105	-	-	-	-	-	-	-	873.48	873.15
		108	-	107	-	-	-	-	-	-	-	873.79	873.60
		110	-	109	-	-	-	-	-	-	6	873.20	872.97
		111	-	110	-	-	-	-	-	-	-	876.13	875.80
		112	-	111	-	-	-	-	-	-	-	876.43	876.25
		114	-	113	-	-	-	-	-	-	6	874.46	874.20
		115	-	114	-	-	-	-	-	-	-	878.34	877.86
TOTAL 0020					0	524	243	19	179	0			
PROJECT 3080-01-76 TOTAL					743	602	243	239	227	767			

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

**NON-BID ITEM: FOR INFORMATION ONLY

3

STORM SEWER STRUCTURES

PROJECT NUMBER	CATEGORY	STR. #	**STATION	**OFFSET	* 522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	* 522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	* 522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	* 522.1048 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0610 INLET COVERS TYPE BW EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0636 INLET COVERS TYPE HM-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0652 INLET COVERS TYPE T EACH	RIM ELEVATION	INVERT ELEVATION	***DEPTH FT
3080-01-76	0010	1	138+00'EB'	25.8' LT	-	-	-	-	-	-	-	-	-	-	2	-	863.06	859.89	3.17
		2	138+02'EB'	73.4' RT	-	1	-	-	-	-	-	-	-	-	-	-	-	859.48	-
		3	41+05'E'	23.8' LT	-	-	-	-	-	-	-	1	-	-	-	-	866.29	862.88	2.41
		4	41+05'E'	17.7' LT	-	-	-	-	-	-	-	-	1	-	-	-	866.34	862.35	2.99
		5	41+07'E'	15.7' RT	1	-	-	-	-	-	-	-	-	-	-	-	-	862.20	-
		10	147+02'EB'	35.0' RT	-	-	-	-	-	1	-	-	-	-	-	-	868.86	862.24	5.29
		11	147+01'EB'	71.1' RT	-	-	-	-	1	-	-	-	-	-	-	-	867.21	861.29	4.67
		12	156+35'EB'	110.7' LT	-	-	1	-	-	-	-	-	-	-	-	-	-	864.80	-
		13	156+35'EB'	25.2' LT	-	-	-	-	-	-	-	-	-	-	2	-	870.58	864.53	6.05
		16	156+35'EB'	83.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	872.74	863.99	7.75
		17	364+52'MP'	31.0' LT	-	-	-	-	-	1	-	-	-	-	-	-	877.39	869.86	6.20
		19	364+51'MP'	17.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	876.83	867.33	8.50
		20	170+02'EB'	35.0' RT	-	-	-	-	-	1	-	-	-	-	-	-	878.77	870.97	6.47
		23	170+02'EB'	83.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.12	869.24	7.88
		24	377+02'MP'	31.0' LT	-	-	-	-	-	1	-	-	-	-	-	-	880.56	873.75	5.48
		28	181+25'EB'	39.6' RT	-	-	-	-	-	1	-	-	-	-	-	-	881.42	876.05	4.04
		32	182+03'EB'	165.7' LT	-	-	1	-	-	-	-	-	-	-	-	-	-	874.00	-
		33	182+03'EB'	254' LT	-	-	-	-	-	-	-	-	-	-	2	-	879.20	872.65	6.55
		34	182+03'EB'	135.3' RT	-	-	1	-	-	-	-	-	-	-	-	-	-	871.00	-
		36	188+00'EB'	25.2' LT	-	-	-	-	-	-	-	-	-	-	2	-	880.98	876.41	4.57
		37	188+00'EB'	48.0' RT	-	-	-	-	-	-	-	-	-	-	2	-	881.20	876.28	4.92
		38	188+00'EB'	131.0' RT	-	1	-	-	-	-	-	-	-	-	-	-	-	873.15	-
		39	206+98'EB'	110.0' LT	-	1	-	-	-	-	-	-	-	-	-	-	-	870.69	-
		62	341+59'MP'	55.8' RT	-	-	-	1	-	-	-	-	-	-	-	-	-	859.50	-
		63	341+74'MP'	81.2' RT	1	-	-	-	-	-	-	-	-	-	-	-	-	858.50	-
		64	344+56'MP'	82.2' LT	-	-	-	-	1	-	-	-	-	-	-	-	867.38	860.53	5.60
		78	348+95'MP'	29.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	869.27	861.85	6.42
		82	348+95'MP'	31.0' LT	-	-	-	-	-	1	-	-	-	-	-	-	869.82	865.56	2.93
		83	351+25'MP'	25.0' RT	-	-	-	-	-	-	1	-	-	-	-	-	870.08	862.52	6.56
		85	351+25'MP'	31.0' LT	-	-	-	-	-	1	-	-	-	-	-	-	871.03	866.19	3.51
		86	352+40'MP'	21.1' RT	-	-	-	-	-	-	1	-	-	-	-	-	870.69	867.27	2.42
		87	353+55'MP'	17.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	871.33	863.18	7.15
		89	353+55'MP'	31.0' LT	-	-	-	-	-	1	-	-	-	-	-	-	872.15	866.77	4.05

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS
** STATION & OFFSET ARE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED IN THE PLANS
*** DEPTH = RIM ELEV - TOP OF STR ELEV - COVER HT - 6 INCH ADJ RING HT

CONTINUED ON NEXT PAGE

STORM SEWER STRUCTURES (CONTINUED)

PROJECT NUMBER	CATEGORY	STR. #	**STATION	**OFFSET	* 522.1018 ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18- EACH	* 522.1024 ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24- EACH	* 522.1036 ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36- EACH	* 522.1048 ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48- EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0610 INLET COVERS TYPE BW EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0636 INLET COVERS TYPE HM-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0652 INLET COVERS TYPE T EACH	RIM ELEVATION	INVERT ELEVATION	***DEPTH FT
3080-01-76	0010	14	356+85'MP'	31.0' LT	-	-	-	-	-	1	-	-	-	-	-	-	873.66	869.90	2.43
		90	356+85'MP'	17.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	872.99	868.54	3.45
		92	360+43'MP'	17.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	874.77	865.91	7.86
		94	360+43'MP'	31.0' LT	-	-	-	-	-	1	-	-	-	-	-	-	875.64	869.47	4.84
		95	360+33'MP'	31.0' LT	-	-	-	-	-	1	-	-	-	-	-	-	875.60	869.69	4.58
		96	360+63'MP'	17.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	874.77	865.91	7.86
		97	364+71'MP'	17.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	876.92	871.28	4.64
		98	369+80'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.06	873.04	4.02
		99	371+19'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.75	873.52	4.23
		100	373+75'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.98	870.53	7.45
		102	373+75'MP'	31.0' LT	-	-	-	-	-	1	-	-	-	-	-	-	879.74	873.62	4.79
		116	463+50'LD'	29.7' RT	1	-	-	-	-	-	-	-	-	-	-	-	-	873.10	-
		117	463+50'LD'	23.7' LT	-	-	-	-	-	-	1	-	-	-	-	-	879.14	873.63	4.51
		118	463+70'LD'	21.1' LT	-	-	-	-	-	-	1	-	-	-	-	-	879.57	874.34	4.23
		119	467+75'LD'	28.5' RT	1	-	-	-	-	-	-	-	-	-	-	-	-	881.71	-
		120	467+75'LD'	16.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	887.25	882.15	4.10
		200	477+55'LD'	16.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	879.53	877.01	1.86
		201	477+35'LD'	16.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.90	876.41	1.91
		203	477+35'LD'	32.0' RT	-	-	-	-	-	1	-	-	-	-	-	-	880.58	876.99	2.59
		206	479+52'LD'	16.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	879.98	875.71	3.27
		207	479+51'LD'	33.8' RT	-	-	-	-	-	1	-	-	-	-	-	-	880.95	876.30	3.32
		208	479+52'LD'	26.5' LT	1	-	-	-	-	-	-	-	-	-	-	-	-	875.50	-
		215	482+75'LD'	31.9' RT	-	-	-	-	-	1	-	-	-	-	-	-	881.48	875.61	4.54
		217	482+75'LD'	30.6' LT	1	-	-	-	-	-	-	-	-	-	-	-	-	875.30	-
		210	484+23'LD'	32.0' RT	-	-	-	-	-	1	-	-	-	-	-	-	881.55	877.11	3.11
		211	484+23'LD'	16.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	880.11	876.51	2.60
		212	484+42'LD'	16.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	880.17	877.11	2.06
		214	484+23'LD'	25.6' LT	1	-	-	-	-	-	-	-	-	-	-	-	-	876.31	-
		216	484+41'LD'	32.2' RT	-	-	-	-	-	1	-	-	-	-	-	-	881.61	877.29	2.99
		588	685+55 'A'	24.0' RT	-	-	-	-	-	-	1	-	-	-	-	-	881.05	876.37	3.68
		589	685+75 'A'	24.0' RT	-	-	-	-	-	-	1	-	-	-	-	-	880.99	875.77	4.22
		590	685+75 'A'	43.9' RT	1	-	-	-	-	-	-	-	-	-	-	-	-	875.64	-
		591	986+75 'D'	24.0' LT	-	-	-	-	-	1	-	-	-	-	-	-	882.25	875.79	5.46
		592	986+79 'D'	45.7' LT	1	-	-	-	-	-	-	-	-	-	-	-	-	875.16	-
	TOTAL 0010				9	3	3	1	2	18	15	1	1	9	10	0			

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS
** STATION & OFFSET ARE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED IN THE PLANS
*** DEPTH = RIM ELEV - TOP OF STR ELEV - COVER HT - 6 INCH ADJ RING HT

CONTINUED ON NEXT PAGE

STORM SEWER STRUCTURES (CONTINUED)

PROJECT NUMBER	CATEGORY	STR. #	**STATION	**OFFSET	* 522.1018 ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18- EACH	* 522.1024 ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24- EACH	* 522.1036 ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36- EACH	* 522.1048 ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48- EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0610 INLET COVERS TYPE BW EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0636 INLET COVERS TYPE HM-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0652 INLET COVERS TYPE T EACH	RIM ELEVATION	INVERT ELEVATION	***DEPTH FT
3080-01-76	0020	6	44+68'E'	42.1' LT	-	-	-	-	-	-	-	-	-	-	1	-	865.06	863.04	2.02
		7	44+64'E'	23.6' LT	-	-	-	-	-	-	-	-	1	-	-	-	867.28	862.82	3.46
		8	44+65'E'	1.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	866.77	862.59	3.18
		9	44+57'E'	18.6' RT	1	-	-	-	-	-	-	-	-	-	-	-	-	862.51	-
		18	364+51'MP'	17.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	876.83	869.49	6.34
		21	170+02'EB'	48.5' RT	-	-	-	-	-	-	-	-	1	-	-	-	878.12	870.74	6.38
		22	169+80'EB'	48.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.06	871.97	5.09
		25	377+00'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	879.52	873.52	5.00
		26	377+00'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	879.52	871.57	6.95
		27	377+00'MP'	61.5' RT	-	1	-	-	-	-	-	-	-	-	-	-	-	870.25	-
		29	181+26'EB'	53.0' RT	-	-	-	-	-	-	-	-	-	1	-	-	880.82	875.81	4.01
		30	181+24'EB'	87.9' RT	-	-	-	-	-	-	-	-	-	1	-	-	880.82	871.57	8.25
		31	181+21'EB'	135.4' RT	1	-	-	-	-	-	-	-	-	-	-	-	-	870.25	-
		40	327+25'MP'	19.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	864.27	859.17	4.10
		41	327+25'MP'	19.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	864.27	860.36	2.91
		43	328+95'MP'	19.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	863.42	859.51	2.91
		44	330+13'MP'	63.7' LT	-	1	-	-	-	-	-	-	-	-	-	-	-	856.99	-
		45	328+95'MP'	19.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	863.42	858.07	4.35
		46	329+33'MP'	31.0' LT	-	-	-	-	-	-	-	-	-	1	-	-	862.98	857.37	4.61
		47	329+29'MP'	57.2' LT	-	-	-	-	-	-	-	-	-	-	1	-	862.00	858.13	3.87
		48	330+04'MP'	37.9' LT	-	-	-	-	-	-	-	-	-	1	-	-	862.45	857.05	4.40
		49	330+30'MP'	45.5' LT	1	-	-	-	-	-	-	-	-	-	-	-	-	856.82	-
		50	331+20'MP'	17.6' RT	-	-	-	-	-	-	-	-	-	1	-	-	862.33	858.68	2.65
		51	331+30'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	862.29	858.33	2.96
		52	331+30'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	862.29	857.90	3.39
		53	331+30'MP'	29.7' LT	1	-	-	-	-	-	-	-	-	-	-	-	-	857.85	-
		54	331+50'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	862.39	858.69	2.70
		55	331+50'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	862.39	858.25	3.14
		56	335+00'MP'	63.6' RT	1	-	-	-	-	-	-	-	-	-	-	-	-	858.50	-
		57	335+00'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	864.14	858.94	4.20
		58	335+00'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	864.14	859.79	3.35
		59	338+00'MP'	62.6' RT	1	-	-	-	-	-	-	-	-	-	-	-	-	858.50	-
		60	338+00'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	865.64	859.52	5.12
		60A	337+90'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	865.59	860.14	4.45
		61	338+00'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	865.64	860.39	4.25

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

** STATION & OFFSET ARE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED IN THE PLANS

*** DEPTH = RIM ELEV - TOP OF STR ELEV - COVER HT - 6 INCH ADJ RING HT

CONTINUED ON NEXT PAGE

STORM SEWER STRUCTURES (CONTINUED)

PROJECT NUMBER	CATEGORY	STR. #	**STATION	**OFFSET	* 522.1018 ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18- EACH	* 522.1024 ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24- EACH	* 522.1036 ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36- EACH	* 522.1048 ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48- EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0610 INLET COVERS TYPE BW EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0636 INLET COVERS TYPE HM-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0652 INLET COVERS TYPE T EACH	RIM ELEVATION	INVERT ELEVATION	***DEPTH FT
3080-01-76	0020	65	344+56'MP'	27.0' LT	-	-	-	-	-	-	1	-	-	-	-	-	866.92	862.09	3.83
		66	344+88'MP'	18.0' LT	-	-	-	-	-	-	-	-	-	-	-	1	867.03	863.31	2.64
		67	344+96'MP'	24.0' LT	-	-	-	-	-	-	-	-	-	-	-	1	867.05	863.46	2.51
		68	345+14'MP'	50.2' LT	-	-	-	-	-	-	-	-	-	1	-	-	867.25	863.72	2.53
		69	342+68'MP'	22.6' RT	-	-	-	-	-	-	-	-	-	1	-	-	865.96	859.76	5.20
		70	342+83'MP'	23.6' RT	-	-	-	-	-	-	-	-	-	1	-	-	865.89	860.43	4.46
		71	342+98'MP'	24.6' RT	-	-	-	-	-	-	-	-	-	1	-	-	865.82	860.70	4.12
		72	342+90'MP'	22.0' LT	-	-	-	-	-	-	-	-	-	1	-	-	865.85	860.99	3.86
		73	347+03'MP'	18.1' LT	-	-	-	-	-	-	-	-	-	1	-	-	867.15	862.40	3.75
		74	346+62'MP'	17.9' LT	-	-	-	-	-	-	-	-	-	1	-	-	866.87	863.63	2.24
		75	346+93'MP'	33.0' RT	-	-	-	-	-	-	-	-	-	1	-	-	867.25	862.77	3.48
		76	346+53'MP'	34.8' RT	-	-	-	-	-	-	-	-	-	1	-	-	867.09	863.96	2.13
		77	346+83'MP'	64.6' RT	-	-	-	-	-	-	-	-	-	-	2	-	866.18	863.03	3.15
		79	348+95'MP'	53.6' RT	-	-	-	-	-	-	-	-	-	-	2	-	869.60	864.08	5.52
		80	348+56'MP'	58.8' RT	-	-	-	-	-	-	-	-	-	1	-	-	868.97	864.55	3.42
		81	348+95'MP'	17.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	869.04	865.32	2.72
		84	351+25'MP'	17.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	870.18	865.95	3.23
		88	353+55'MP'	17.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	871.33	866.53	3.80
		15	356+65'MP'	17.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	872.88	869.96	1.92
		91	356+85'MP'	17.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	872.98	869.51	2.47
		93	360+43'MP'	17.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	874.77	869.09	4.68
		101	373+75'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	878.99	873.38	4.61
		103	385+83'MP'	57.6' RT	1	-	-	-	-	-	-	-	-	-	-	-	-	870.25	-
		104	385+83'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.55	871.56	5.99
		105	386+03'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.59	873.33	4.26
		106	385+63'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.58	873.33	4.25
		107	385+83'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	878.49	873.48	4.01
		108	385+63'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	878.59	873.79	3.80
		109	390+10'MP'	35.9' LT	1	-	-	-	-	-	-	-	-	-	-	-	-	872.97	-
		110	390+10'MP'	17.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	881.58	873.20	7.38
		111	390+10'MP'	17.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	881.58	876.13	4.45
		112	389+90'MP'	17.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	881.42	876.43	3.99
		113	392+62'MP'	41.8' LT	1	-	-	-	-	-	-	-	-	-	-	-	-	874.20	-
		114	392+62'MP'	24.0' LT	-	-	-	-	-	-	1	-	-	-	-	-	883.65	874.46	8.19
		115	392+62'MP'	25.9' RT	-	-	-	-	-	-	1	-	-	-	-	-	883.34	878.34	4.00
	TOTAL 0020				9	2	0	0	0	0	17	0	2	34	6	2			
	PROJECT 3080-01-76 TOTAL				18	5	3	1	2	18	32	1	3	43	16	2			

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** STATION & OFFSET ARE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED IN THE PLANS
*** DEPTH = RIM ELEV - TOP OF STR ELEV - COVER HT - 6 INCH ADJ RING HT

CONTINUED ON NEXT PAGE

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STORM SEWER STRUCTURES (CONTINUED)

					611.3004	611.3225	611.3230	611.3901	611.3902	611.8120.S	611.9800.S	* 633.5200	SPV.0060.04	SPV.0060.05	SPV.0060.06	SPV.0060.07				
PROJECT NUMBER	CATEGORY	STR. #	**STATION	**OFFSET	INLETS 4-FT DIAMETER EACH	INLETS 2X2.5-FT EACH	INLETS 2X3-FT EACH	INLETS MEDIAN 1 GRATE EACH	INLETS MEDIAN 2 GRATE EACH	COVER PLATES TEMPORARY EACH	PIPE GRATES EACH	MARKERS CULVERT END EACH	SPECIAL (04. CIP INLET 4) EACH	SPECIAL (05. CIP INLET 2X3) EACH	SPECIAL (06. CIP MANHOLE 6X6) EACH	SPECIAL (07. CIP INLET SP) EACH	RIM ELEVATION	INVERT ELEVATION	***DEPTH FT	REMARKS
3080-01-76	0010	1	138+00'EB'	25.8' LT	-	-	-	-	1	-	-	-	-	-	-	-	863.06	859.89	3.17	SINGLE SLOPE
		2	138+02'EB'	73.4' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	859.48	-	
		3	41+05'E'	23.8' LT	-	-	1	-	-	-	-	-	-	-	-	-	866.29	862.88	2.41	
		4	41+05'E'	17.7' LT	-	-	1	-	-	-	-	-	-	-	-	-	866.34	862.35	2.99	
		5	41+07'E'	15.7' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	862.20	-	
		10	147+02'EB'	35.0' RT	1	-	-	-	-	-	-	-	-	-	-	-	868.86	862.24	5.29	
		11	147+01'EB'	71.1' RT	-	-	-	-	-	1	-	-	-	-	1	-	867.21	861.29	4.67	
		12	156+35'EB'	110.7' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	864.80	-	
		13	156+35'EB'	25.2' LT	-	-	-	-	1	-	-	-	-	-	-	-	870.58	864.53	6.05	SINGLE SLOPE
		16	156+35'EB'	83.5' RT	-	-	-	-	-	-	-	-	-	-	1	-	872.74	863.99	7.75	
		17	364+52'MP'	31.0' LT	1	-	-	-	-	-	-	-	-	-	-	-	877.39	869.86	6.20	
		19	364+51'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	-	1	-	876.83	867.33	8.50	
		20	170+02'EB'	35.0' RT	1	-	-	-	-	-	-	-	-	-	-	-	878.77	870.97	6.47	
		23	170+02'EB'	83.5' RT	-	-	-	-	-	-	-	-	-	-	1	-	878.12	869.24	7.88	
		24	377+02'MP'	31.0' LT	1	-	-	-	-	-	-	-	-	-	-	-	880.56	873.75	5.48	
		28	181+25'EB'	39.6' RT	-	1	-	-	-	-	-	-	-	-	-	-	881.42	876.05	4.04	
		32	182+03'EB'	165.7' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	874.00	-	
		33	182+03'EB'	254' LT	-	-	-	-	1	-	-	-	-	-	-	-	879.20	872.65	6.55	SINGLE SLOPE
		34	182+03'EB'	135.3' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	871.00	-	
		36	188+00'EB'	25.2' LT	-	-	-	-	1	-	-	-	-	-	-	-	880.98	876.41	4.57	SINGLE SLOPE
		37	188+00'EB'	48.0' RT	-	-	-	-	1	-	-	-	-	-	-	-	881.20	876.28	4.92	DOUBLE SLOPE
		38	188+00'EB'	131.0' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	873.15	-	
		39	206+98'EB'	110.0' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	870.69	-	
		62	341+59'MP'	55.8' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	859.50	-	
		63	341+74'MP'	81.2' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	858.50	-	
		64	344+56'MP'	82.2' LT	-	-	-	-	-	-	-	-	-	-	1	-	867.38	860.53	5.60	
		78	348+95'MP'	29.5' RT	-	-	-	-	-	-	-	-	-	-	1	-	869.27	861.85	6.42	
		82	348+95'MP'	31.0' LT	-	1	-	-	-	-	-	-	-	-	-	-	869.82	865.56	2.93	
		83	351+25'MP'	25.0' RT	-	-	-	-	-	-	-	-	-	-	1	-	870.08	862.52	6.56	
		85	351+25'MP'	31.0' LT	-	1	-	-	-	-	-	-	-	-	-	-	871.03	866.19	3.51	
		86	352+40'MP'	21.1' RT	-	-	-	-	-	-	-	-	-	-	-	1	870.69	867.27	2.42	
		87	353+55'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	-	1	-	871.33	863.18	7.15	
		89	353+55'MP'	31.0' LT	-	1	-	-	-	-	-	-	-	-	-	-	872.15	866.77	4.05	

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CONTINUED ON NEXT PAGE

STORM SEWER STRUCTURES (CONTINUED)

PROJECT NUMBER	CATEGORY	STRUCTURE	**STATION	**OFFSET	611.3004 INLETS 4-FT DIAMETER EACH	611.3225 INLETS 2X2.5-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.9800.S PIPE GRATES EACH	* 633.5200 MARKERS CULVERT END EACH	SPV.0060.04 SPECIAL (04. CIP INLET 4) EACH	SPV.0060.05 SPECIAL (05. CIP INLET 2X3) EACH	SPV.0060.06 SPECIAL (06. CIP MANHOLE 6X6) EACH	SPV.0060.07 SPECIAL (07. CIP INLET SP) EACH	RIM ELEVATION	INVERT ELEVATION	***DEPTH FT	REMARKS
3080-01-76	0010	14	356+85'MP'	31.0' LT	-	1	-	-	-	-	-	-	-	-	-	-	873.66	869.90	2.43	
		90	356+85'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	-	-	1	872.99	868.54	3.45	
		92	360+43'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	-	1	-	874.77	865.91	7.86	
		94	360+43'MP'	31.0' LT	-	1	-	-	-	-	-	-	-	-	-	-	875.64	869.47	4.84	
		95	360+33'MP'	31.0' LT	-	1	-	-	-	-	-	-	-	-	-	-	875.60	869.69	4.58	
		96	360+63'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	-	-	1	874.77	865.91	7.86	
		97	364+71'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	-	-	1	876.92	871.28	4.64	
		98	369+80'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	-	-	1	878.06	873.04	4.02	
		99	371+19'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	-	-	1	878.75	873.52	4.23	
		100	373+75'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	-	1	-	878.98	870.53	7.45	
		102	373+75'MP'	31.0' LT	-	1	-	-	-	-	-	-	-	-	-	-	879.74	873.62	4.79	
		116	463+50'LD'	29.7' RT	-	-	-	-	-	-	1	1	-	-	-	-	-	873.10	-	
		117	463+50'LD'	23.7' LT	-	-	-	-	-	-	-	-	1	-	-	-	879.14	873.63	4.51	
		118	463+70'LD'	21.1' LT	-	-	-	-	-	-	-	-	-	1	-	-	879.57	874.34	4.23	
		119	467+75'LD'	28.5' RT	-	-	-	-	-	-	1	1	-	-	-	-	-	881.71	-	
		120	467+75'LD'	16.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	887.25	882.15	4.10	
		200	477+55'LD'	16.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	879.53	877.01	1.86	
		201	477+35'LD'	16.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.90	876.41	1.91	
		203	477+35'LD'	32.0' RT	-	1	-	-	-	-	-	-	-	-	-	-	880.58	876.99	2.59	
		206	479+52'LD'	16.5' RT	-	1	-	-	-	-	-	-	-	1	-	-	879.98	875.71	3.27	
		207	479+51'LD'	33.8' RT	-	1	-	-	-	-	-	-	-	-	-	-	880.95	876.30	3.32	
		208	479+52'LD'	26.5' LT	-	-	-	-	-	-	1	1	-	-	-	-	-	875.50	-	
		215	482+75'LD'	31.9' RT	-	1	-	-	-	-	-	-	-	-	-	-	881.48	875.61	4.54	
		217	482+75'LD'	30.6' LT	-	-	-	-	-	-	1	1	-	-	-	-	-	875.30	-	
		210	484+23'LD'	32.0' RT	-	1	-	-	-	-	-	-	-	-	-	-	881.55	877.11	3.11	
		211	484+23'LD'	16.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	880.11	876.51	2.60	
		212	484+42'LD'	16.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	880.17	877.11	2.06	
		214	484+23'LD'	25.6' LT	-	-	-	-	-	-	1	1	-	-	-	-	-	876.31	-	
		216	484+41'LD'	32.2' RT	-	1	-	-	-	-	-	-	-	-	-	-	881.61	877.29	2.99	
		588	685+55 'A'	24.0' RT	-	-	1	-	-	-	-	-	-	-	-	-	881.05	876.37	3.68	
		589	685+75 'A'	24.0' RT	-	-	1	-	-	-	-	-	-	-	-	-	880.99	875.77	4.22	
		590	685+75 'A'	43.9' RT	-	-	-	-	-	-	-	1	-	-	-	-	-	875.64	-	
		591	986+75 'D'	24.0' LT	-	1	-	-	-	-	-	-	-	-	-	-	882.25	875.79	5.46	
		592	986+79 'D'	45.7' LT	-	-	-	-	-	-	-	1	-	-	-	-	-	875.16	-	
TOTAL 0010					4	15	4	0	5	1	6	13	1	7	10	6				

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CONTINUED ON NEXT PAGE

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STORM SEWER STRUCTURES (CONTINUED)

PROJECT NUMBER	CATEGORY	STRUCTURE	**STATION	**OFFSET	611.3004 INLETS 4-FT DIAMETER EACH	611.3225 INLETS 2X2.5-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.9800.S PIPE GRATES EACH	* 633.5200 MARKERS CULVERT END EACH	SPV.0060.04 SPECIAL (04. CIP INLET 4) EACH	SPV.0060.05 SPECIAL (05. CIP INLET 2X3) EACH	SPV.0060.06 SPECIAL (06. CIP MANHOLE 6X6) EACH	SPV.0060.07 SPECIAL (07. CIP INLET SP) EACH	RIM ELEVATION	INVERT ELEVATION	***DEPTH FT	REMARKS
3080-01-76	0020	6	44+68'E'	42.1' LT	-	-	-	1	-	-	-	-	-	-	-	-	865.06	863.04	2.02	SINGLE SLOPE
		7	44+64'E'	23.6' LT	-	-	-	-	-	-	-	-	1	-	-	-	867.28	862.82	3.46	
		8	44+65'E'	1.5' RT	-	-	-	-	-	-	-	-	1	-	-	-	866.77	862.59	3.18	
		9	44+57'E'	18.6' RT	-	-	-	-	-	-	1	1	-	-	-	-	-	862.51	-	
		18	364+51'MP'	17.5' LT	-	-	-	-	-	-	-	-	1	-	-	-	876.83	869.49	6.34	
		21	170+02'EB'	48.5' RT	-	-	-	-	-	-	-	-	1	-	-	-	878.12	870.74	6.38	
		22	169+80'EB'	48.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.06	871.97	5.09	
		25	377+00'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	879.52	873.52	5.00	
		26	377+00'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	879.52	871.57	6.95	
		27	377+00'MP'	61.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	870.25	-	
		29	181+26'EB'	53.0' RT	-	-	-	-	-	-	-	-	-	1	-	-	880.82	875.81	4.01	
		30	181+24'EB'	87.9' RT	-	-	-	-	-	-	-	-	-	1	-	-	880.82	871.57	8.25	
		31	181+21'EB'	135.4' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	870.25	-	
		40	327+25'MP'	19.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	864.27	859.17	4.10	
		41	327+25'MP'	19.5' RT	-	-	-	-	-	-	-	-	1	-	-	-	864.27	860.36	2.91	
		43	328+95'MP'	19.5' RT	-	-	-	-	-	-	-	-	1	-	-	-	863.42	859.51	2.91	
		44	330+13'MP'	63.7' LT	-	-	-	-	-	-	1	1	-	-	-	-	-	856.99	-	
		45	328+95'MP'	19.5' LT	-	-	-	-	-	-	-	-	1	-	-	-	863.42	858.07	4.35	
		46	329+33'MP'	31.0' LT	-	-	-	-	-	-	-	-	1	-	-	-	862.98	857.37	4.61	
		47	329+29'MP'	57.2' LT	-	-	-	1	-	-	-	-	-	-	-	-	862.00	858.13	3.87	SINGLE SLOPE
		48	330+04'MP'	37.9' LT	-	-	-	-	-	-	-	-	1	-	-	-	862.45	857.05	4.40	
		49	330+30'MP'	45.5' LT	-	-	-	-	-	-	1	1	-	-	-	-	-	856.82	-	
		50	331+20'MP'	17.6' RT	-	-	-	-	-	-	-	-	-	1	-	-	862.33	858.68	2.65	
		51	331+30'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	862.29	858.33	2.96	
		52	331+30'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	862.29	857.90	3.39	
		53	331+30'MP'	29.7' LT	-	-	-	-	-	-	1	1	-	-	-	-	-	857.85	-	
		54	331+50'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	862.39	858.69	2.70	
		55	331+50'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	862.39	858.25	3.14	
		56	335+00'MP'	63.6' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	858.50	-	
		57	335+00'MP'	17.5' RT	-	-	-	-	-	1	-	-	-	1	-	-	864.14	858.94	4.20	
		58	335+00'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	864.14	859.79	3.35	
		59	338+00'MP'	62.6' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	858.50	-	
		60	338+00'MP'	17.5' RT	-	-	-	-	-	1	-	-	-	1	-	-	865.64	859.52	5.12	
		60A	337+90'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	865.59	860.14	4.45	
		61	338+00'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	865.64	860.39	4.25	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

** STATION & OFFSET ARE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED IN THE PLANS

*** DEPTH = RIM ELEV - TOP OF STR ELEV - COVER HT - 6 INCH ADJ RING HT

CONTINUED ON NEXT PAGE

3

STORM SEWER STRUCTURES (CONTINUED)

PROJECT NUMBER	CATEGORY	STRUCTURE	**STATION	**OFFSET	611.3004 INLETS 4-FT DIAMETER EACH	611.3225 INLETS 2X2.5-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.9800.S PIPE GRATES EACH	* 633.5200 MARKERS CULVERT END EACH	SPV.0060.04 SPECIAL (04. CIP INLET 4) EACH	SPV.0060.05 SPECIAL (05. CIP INLET 2X3) EACH	SPV.0060.06 SPECIAL (06. CIP MANHOLE 6X6) EACH	SPV.0060.07 SPECIAL (07. CIP INLET SP) EACH	RIM ELEVATION	INVERT ELEVATION	***DEPTH FT	REMARKS
3080-01-76	0020	65	344+56'MP'	27.0' LT	-	-	-	-	-	-	-	-	1	-	-	-	866.92	862.09	3.83	
		66	344+88'MP'	18.0' LT	-	-	-	-	-	-	-	-	1	-	-	-	867.03	863.31	2.64	
		67	344+96'MP'	24.0' LT	-	-	-	-	-	-	-	-	1	-	-	-	867.05	863.46	2.51	
		68	345+14'MP'	50.2' LT	-	-	-	-	-	-	-	-	1	-	-	-	867.25	863.72	2.53	
		69	342+68'MP'	22.6' RT	-	-	-	-	-	-	-	-	1	-	-	-	865.96	859.76	5.20	
		70	342+83'MP'	23.6' RT	-	-	-	-	-	-	-	-	-	1	-	-	865.89	860.43	4.46	
		71	342+98'MP'	24.6' RT	-	-	-	-	-	-	-	-	1	-	-	-	865.82	860.70	4.12	
		72	342+90'MP'	22.0' LT	-	-	-	-	-	-	-	-	1	-	-	-	865.85	860.99	3.86	
		73	347+03'MP'	18.1' LT	-	-	-	-	-	1	-	-	1	-	-	-	867.15	862.40	3.75	
		74	346+62'MP'	17.9' LT	-	-	-	-	-	-	-	-	-	1	-	-	866.87	863.63	2.24	
		75	346+93'MP'	33.0' RT	-	-	-	-	-	-	-	-	1	-	-	-	867.25	862.77	3.48	
		76	346+53'MP'	34.8' RT	-	-	-	-	-	-	-	-	-	1	-	-	867.09	863.96	2.13	
		77	346+83'MP'	64.6' RT	-	-	-	-	1	-	-	-	-	-	-	-	866.18	863.03	3.15	DOUBLE SLOPE
		79	348+95'MP'	53.6' RT	-	-	-	-	1	-	-	-	-	-	-	-	869.60	864.08	5.52	SINGLE SLOPE
		80	348+56'MP'	58.8' RT	-	-	-	-	-	-	-	-	1	-	-	-	868.97	864.55	3.42	
		81	348+95'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	869.04	865.32	2.72	
		84	351+25'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	870.18	865.95	3.23	
		88	353+55'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	871.33	866.53	3.80	
		15	356+65'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	872.88	869.96	1.92	
		91	356+85'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	872.98	869.51	2.47	
		93	360+43'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	874.77	869.09	4.68	
		101	373+75'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	878.99	873.38	4.61	
		103	385+83'MP'	57.6' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	870.25	-	
		104	385+83'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.55	871.56	5.99	
		105	386+03'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.59	873.33	4.26	
		106	385+63'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	878.58	873.33	4.25	
		107	385+83'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	878.49	873.48	4.01	
		108	385+63'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	878.59	873.79	3.80	
		109	390+10'MP'	35.9' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	872.97	-	
		110	390+10'MP'	17.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	881.58	873.20	7.38	
		111	390+10'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	881.58	876.13	4.45	
		112	389+90'MP'	17.5' RT	-	-	-	-	-	-	-	-	-	1	-	-	881.42	876.43	3.99	
		113	392+62'MP'	41.8' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	874.20	-	
		114	392+62'MP'	24.0' LT	-	-	-	-	-	-	-	-	-	1	-	-	883.65	874.46	8.19	
		115	392+62'MP'	25.9' RT	-	-	-	-	-	-	-	-	-	1	-	-	883.34	878.34	4.00	
TOTAL 0020					0	0	0	2	2	3	11	4	19	36	0	0				
PROJECT 3080-01-76 TOTAL					4	15	4	2	7	4	17	17	20	43	10	6				

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

** STATION & OFFSET ARE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED IN THE PLANS

*** DEPTH = RIM ELEV - TOP OF STR ELEV - COVER HT - 6 INCH ADJ RING HT

PIPE UNDERDRAIN ITEMS

PROJECT NUMBER	CATEGORY	BEGIN STATION	BEGIN OFFSET	BEGIN ELEV. (FT)	BEGIN STR. #	END STATION	END OFFSET	END ELEV. (FT)	END STR. #	LOCATION	* 310.0110 BASE AGGREGATE OPEN-GRADED TON	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY
3080-01-76	0010	148+95EB'	RT	866.90	82	147+02'EB	RT	865.94	10	USH 12/18 EB	14	193	-	97
		151+25'EB'	RT	868.11	85	148+95EB'	RT	866.9	82	USH 12/18 EB	16	230	-	115
		153+55'EB'	RT	869.23	89	151+25'EB	RT	868.11	85	USH 12/18 EB	16	230	-	115
		156+35'EB'	RT	870.52	14	153+55'EB	RT	869.23	89	USH 12/18 EB	20	280	-	140
		160+33'EB'	RT	872.68	95	156+35'EB	RT	870.52	14	USH 12/18 EB	28	398	-	199
		160+43'EB'	RT	872.72	94	160+33'EB	RT	872.68	95	USH 12/18 EB	1	10	-	5
		164+52'EB'	RT	874.47	17	160+43'EB	RT	872.72	94	USH 12/18 EB	29	409	-	205
		170+02'EB'	RT	875.85	20	164+52'EB	RT	874.47	17	USH 12/18 EB	39	550	-	275
		173+25'EB'	RT	876.82	102	170+02'EB	RT	875.85	20	USH 12/18 EB	23	323	-	162
		177+02'EB'	RT	877.64	24	173+25'EB	RT	876.82	102	USH 12/18 EB	27	377	-	189
		181+25'EB'	RT	878.50	28	177+02'EB	RT	877.64	24	USH 12/18 EB	30	423	-	212
		219+64'EB'	LT	858.18	-	221+00'EB	LT	857.77	-	USH 12/18 EB	10	136	17	68
		179+51' WE	LT	877.87	207	177+33'WB	LT	877.22	203	RAMP 'D'	16	218	-	109
		982+75 'A'	LT	878.40	215	179+51' WE	LT	877.43	207	RAMP 'D'	23	325	-	163
		984+25 'A'	LT	878.47	210	982+75 'A'	LT	877.72	215	RAMP 'D'	11	150	-	75
		984+45 'A'	LT	878.53	216	984+25 'A'	LT	878.43	210	RAMP 'D'	1	20	-	10
		985+50 'D'	LT	878.88	-	984+45 'A'	LT	878.35	216	RAMP 'D'	8	105	-	53
		685+55 'A'	RT	887.30	588	681+25 'A'	RT	877.67	10	RAMP 'A'	30	429	-	215
		44+15'E'	RT	863.56	HI PT	44+65'E'	RT	863.27	8	RAMP 'E'	3	49	-	25
										TOTAL 0010	345	4,855	17	2,432

STORM SEWER STRUCTURE RECONSTRUCTION

PROJECT NUMBER	CATEGORY	STATION	LOCATION	SPV.0060.17 SPECIAL (17. RECONSTRUCTING INLETS MEDIAN 2 GRATE) EACH
3080-01-76	0010	147+00'EB'	MEDIAN	1
		164+50'EB'	MEDIAN	1
		177+02'EB'	MEDIAN	1
			TOTAL 0010	3

UTILITY LINE OPENING (ULO)

PROJECT NUMBER	CATEGORY	LOCATION	SPV.0060.39 SPECIAL (39. UTILITY LINE OPENING (ULO)) EACH	REMARKS
3080-01-76	0020	UNDISTRIBUTED	5	
		TOTAL 0020	5	

SALVAGED PIPE UNDERDRAINS

PROJECT NUMBER	CATEGORY	STATION	LOCATION	SPV.0060.08 SPECIAL (08. SALVAGE AND REPLACE PIPE UNDERDRAIN ENDWALL) EACH
3080-01-76	0010	132+50'EB'	LT/RT	1
		135+00'EB'	LT/RT	1
		137+40'EB'	LT/RT	1
		139+00'EB'	LT	1
		146+50'EB'	LT	1
		148+00'EB'	LT	1
		150+00'EB'	LT	1
		152+50'WB'	LT/RT	2
		152+50'EB'	LT	1
		155+00'WB'	LT/RT	2
		155+00'EB'	LT	1
		157+50'WB'	LT/RT	2
		157+50'EB'	LT	1
		160+00'WB'	LT/RT	2
		165+25'WB'	LT/RT	2
		165+25'EB'	LT	1
		167+75'WB'	LT/RT	2
		167+75'EB'	LT	1
		170+25'WB'	LT/RT	2
		170+25'EB'	LT	1
		172+75'WB'	LT/RT	2
		172+75'EB'	LT	1
		175+25'WB'	RT	1
		175+25'EB'	LT	1
		177+75'WB'	RT	1
		177+75'EB'	LT	1
		180+25'WB'	RT	1
		191+50'EB'	LT/RT	2
		194+00'WB'	RT	1
		194+00'EB'	LT	1
		196+00'WB'	RT	1
		196+00'EB'	LT	1
		198+50'WB'	RT	1
		198+50'EB'	LT	1
		201+00'EB'	LT/RT	2
		201+00'WB'	RT	1
		203+50'WB'	LT/RT	2
		203+50'EB'	LT/RT	2
		206+00'WB'	LT/RT	2
		206+00'EB'	LT/RT	2
		208+50'EB'	LT/RT	2
		211+00'WB'	RT	1
		211+00'EB'	LT	1
		213+50'WB'	RT	1
		213+50'EB'	LT	1
		216+00'EB'	LT	1
		218+00'EB'	LT	1
		221+00'EB'	LT	1
			TOTAL 0010	63

FENCE ITEMS

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	616.0100.01 FENCE WOVEN WIRE (HEIGHT) (01. 4-FT) LF	616.0350.5.01 GATES WOOD SINGLE LEAF (LENGTH) (01. 16 FT) EACH	616.0405 FENCE CHAIN LINK SALVAGED 6-FT LF	SPV.0060.19 SPECIAL (19. FENCE GATE SALVAGED) EACH	REMARKS
3080-01-76	0010	119+98'EB'	-	144+32'EB'	USH 12/18, RT	2,440	-	-	-	POINT 1000-1010
		145+20'EB'	-	146+95'EB'	USH 12/18, RT	180	-	-	-	POINT 1012-1014
		151+49'EB'	-	160+24'EB'	USH 12/18, LT	-	-	880	-	POINT 1017-1020
		139+80'WB'	-	195+50'WB'	USH 12/18, LT	3,650	-	-	-	POINT 1015-1051
		186+47'EB'	-	194+83'EB'	USH 12/18, RT	910	-	-	-	POINT 1032-1037
		190+86'EB'	-	195+68'EB'	USH 12/18, LT	530		-	-	POINT 1052-1031
		197+95'EB'	-	211+99'EB'	USH 12/18, RT	1,570	-	-	-	POINT 1038-1047
		199+30'WB'		213+90'WB'	USH 12/18, LT	1,500				POINT 1042 1050
		145+00'EB'			USH 12/18, LT	-	1	-	-	
		329+54'MP'			MILLPOND RD, RT	-	-	-	1	YHGC, STAGE 1A
		330+73'MP'			MILLPOND RD, RT	-	-	-	1	YHGC, STAGE 1A
					TOTAL 0010	10,780	1	880	2	

GUARDRAIL ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	614.0220 STEEL THRIE BEAM BULLNOSE TERMINAL EACH	614.0230 STEEL THRIE BEAM LF	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
3080-01-76	0010	2	196+12'EB'	-	198+32'EB'	MEDIAN	2	226.6	-	-	-
						STAGE 2 SUBTOTALS	2	227	0	0.0	0
3080-01-76	0010	3	990+98 'D'	-	991+90 'D'	RAMP 'D'	-	-	-	39.4	1
			194+44'EB'	-	196+37'EB'	RT	-	-	100	39.4	1
			198+07'WB'	-	199+99'WB'	LT	-	-	100	39.4	1
						STAGE 3 SUBTOTALS	0	0	200	118.2	3
3080-01-76	0010	4A	119+67'EB'	-	120+72'EB'	RT	-	-	13	39.4	1
			32+93'E'	-	33+99'E'	RT	-	-	13	39.4	1
			145+48'EB'	-	146+98'EB'	RT	-	-	58	39.4	1
						STAGE 4 SUBTOTALS	0	0.0	83	118	3
						TOTAL 0010	2	226.6	282.5	236.4	6

MISCELLANEOUS ITEMS

PROJECT NUMBER	CATEGORY	LOCATION	108.4300 RBC PROGRESS SCHEDULE EACH	213.0100.01 FINISHING ROADWAY (PROJECT) (01. 3080-01-76) EACH	618.0100.01 MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) (01. 3080-01-76) EACH	619.1000 MOBILIZATION EACH	642.5401 FIELD OFFICE TYPE D EACH	643.5000 TRAFFIC CONTROL EACH	SPV.0060.23 SPECIAL (23. DEWATERING FOR POND EX-S) EACH	SPV.0060.24 SPECIAL (24. DEWATERING FOR POND EX-N) EACH	SPV.0060.27 SPECIAL (27. PROJECT DEWATERING, ID 3080-01-76) EACH	SPV.0060.36 SPECIAL (36. SURVEY PROJECT 3080-01-76) EACH
3080-01-76	0010	PROJECT-WIDE	0.55	0.75	0.75	0.42	0.42	0.42	1	1	1	1
		TOTAL 0010	0.55	0.75	0.75	0.42	0.42	0.42	1	1	1	1
3080-01-76	0020	PROJECT-WIDE	-	0.25	0.25	0.13	0.13	0.13	-	-	-	-
		TOTAL 0020	0.00	0.25	0.25	0.13	0.13	0.13	0	0	0	0
		PROJECT 3080-01-76 TOTAL	0.55	1	1	0.55	0.55	0.55	1	1	1	1

FENCE SAFETY

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	616.0700.S FENCE SAFETY LF	REMARKS
3080-01-76	0010	1-3	448+00'LD'	-	448+25'LD'	MAAHIC WAY, LT	70	MW PROTECTION
			452+75'LD'	-	454+25'LD'	MAAHIC WAY, LT	320	MW PROTECTION
			459+50'LD'	-	462+00'LD'	MAAHIC WAY, LT	80	MW PROTECTION
			213+00'WB'	-	214+00'WB'	USH 12/18, LT	200	SITE PROTECTION
			8+70'XAB'		8+80'XAB'	CTH AB, RT	40	WELL PROTECTION
						TOTAL 0010	710	
3080-01-76	0020	1-2	331+00'MP'	-	345+00'MP'	SOUTH OF POND A	1,400	PEDESTRIAN PROTECTION
			345+00'MP'	-	370+00'MP'	SOUTH OF MILLPOND RD	2,400	PEDESTRIAN PROTECTION
			370+00'MRE'	-	390+00'MRE'	SOUTH OF EAST MAINT. RD	2,000	PEDESTRIAN PROTECTION
			354+90'MP'	-	355+10'MP'	MILLPOND RD, RT	40	MW PROTECTION
			366+40'MP'	-	366+60'MP'	MILLPOND RD, RT	40	MW PROTECTION
						TOTAL 0020	5,880	
						PROJECT 3080-01-76 TOTAL	6590	

CONCRETE MEDIAN SLOPED NOSE

PROJECT NUMBER	CATEGORY	STAGE	STATION	LOCATION	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	REMARKS
3080-01-76	0010	4A	41+00'E'	RAMP 'E', LT	50	TYPE 1
				STAGE 4A SUBTOTALS	50	
				TOTAL 0010	50	
3080-01-76	0020	4A	346+64'MP'	MILLPOND RD, RT	90	TYPE 1
			343+72'MP'	MILLPOND RD, RT	63	TYPE 1
				STAGE 4A SUBTOTALS	153	
				TOTAL 0020	153	
				PROJECT 3080-01-76 TOTAL	203	

EROSION CONTROL ITEMS

PROJECT NUMBER	CATEGORY	STATION	TO STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.2023 EROSION MAT CLASS II TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
3080-01-76	0010	118+59'EB'	131+00'EB'	US 12/18 EB, RT	-	-	490	490	690	-	-	-	-	-	-
		141+00'EB'	180+57'EB'	US 12/18 EB, RT	-	-	-	-	-	-	-	12	11	1	-
		185+66'EB'	221+57'EB'	US 12/18 EB, RT	-	-	635	635	-	-	-	-	-	-	-
		129+94'EB'	221+67'EB'	US 12/18 EB, MEDIAN	-	-	-	-	9,112	-	-	13	-	-	-
		129+94'WB	182+86'WB'	US 12/18 WB, LT	-	-	-	-	6,047	-	-	2	2	-	-
		185+03'WB	208+76'WB'	US 12/18 WB, LT	10	-	-	-	1,315	-	-	-	-	-	-
		680+77'A'	695+12'A'	RAMP A	-	55	-	-	4,413	-	-	4	3	-	-
		698+26'B'	724+67'B'	RAMP B	322	-	-	-	-	-	18,520	-	-	-	-
		799+21'C'	813+70'C'	RAMP C	100	-	-	-	7,986	-	4,268	-	-	-	-
		982+00'D'	996+03'D'	RAMP D	-	-	-	-	3,744	-	-	4	4	-	-
		31+91'E'	45+64'E'	RAMP E	9	-	590	590	-	-	-	6	-	5	-
		439+80'LD'	446+00'LD'	MAAHIC WAY	9	-	-	-	551	-	-	-	-	-	-
		446+00'LD'	463+00'LD'	MAAHIC WAY	5	-	-	-	1,459	-	-	-	-	-	-
		463+00'LD'	485+64'LD'	MAAHIC WAY	61	-	75	75	4,038	-	-	8	-	6	2
		528+59'LL'	536+35'LL'	LUDS LN	-	-	1,065	1,065	-	-	-	-	-	-	-
				POND A	17	-	960	960	-	8,810	-	-	-	-	-
				POND B1	-	-	-	-	-	7,546	-	-	-	-	-
				POND B2	-	-	-	-	923	5,871	-	-	-	-	-
				POND C	4	-	-	-	6,645	-	-	-	-	-	-
				POND D	4	-	-	-	-	2,230	-	-	-	-	-
				SUBTOTALS	541	55	3,815	3,815	46,922	24,457	22,788	49	20	12	2
				UNDISTRIBUTED (25%)	137	16	954	954	11,751	6,113	5,697	13	5	3	1
				TOTAL 0010	678	71	4,769	4,769	58,673	30,570	28,485	62	25	15	3
3080-01-76	0020	323+99'MP'	346+82'MP'	MILLPOND RD	31	-	760	760	192	1,966	-	25	-	17	7
		346+82'MP'	386+11'MP'	MILLPOND RD	-	-	-	-	1,718	5,522	-	38	-	26	10
		386+11'MP'	394+07'MPE'	MILLPOND RD	9	50	-	-	1,924	490	-	5	-	5	-
				SUBTOTALS	40	50	760	760	3,834	7,978	0	68	0	48	17
				UNDISTRIBUTED (25%)	9	15	190	190	961	1,997	0	19	2	12	4
				TOTAL 0020	49	65	950	950	4,795	9,975	0	87	2	60	21
				PROJECT 3080-01-76 TOTAL	727	136	5719	5719	63448	40545	28485	149	27	75	24

EROSION CONTROL ITEMS (CONTINUED)

PROJECT NUMBER	CATEGORY	STATION	TO STATION	LOCATION	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7560 TRACKING PADS EACH	628.7570 ROCK BAGS EACH	631.1100 SOD EROSION CONTROL SY	645.0120 GEOTEXTILE TYPE HR SY	SPV.0090.01 SPECIAL (01. COMPOST TUBES) LF
3080-01-76	0010	118+59'EB'	- 131+00'EB'	US 12/18 EB, RT	30	7	-	-	-	-	-
		141+00'EB'	- 180+57'EB'	US 12/18 EB, RT	-	-	-	-	-	-	-
		185+66'EB'	- 221+57'EB'	US 12/18 EB, RT	50	-	-	-	-	-	-
		129+94'EB'	- 221+67'EB'	US 12/18 EB, MEDIAN	50	2	-	-	-	-	-
		129+94'WB	- 182+86'WB'	US 12/18 WB, LT	20	17	-	-	-	-	-
		185+03'WB	- 208+76'WB'	US 12/18 WB, LT	-	3	-	-	-	35	-
		680+77'A'	- 695+12'A'	RAMP A	40	3	-	-	-	110	-
		698+26'B'	- 724+67'B'	RAMP B	90	8	-	-	-	819	945
		799+21'C'	- 813+70'C'	RAMP C	80	3	-	-	-	275	425
		982+00'D'	- 996+03'D'	RAMP D	-	10	-	-	-	-	-
		31+91'E'	- 45+64'E'	RAMP E	-	-	-	24	-	30	-
		439+80'LD'	- 446+00'LD'	MAAHIC WAY	30	5	-	-	-	29	-
		446+00'LD'	- 463+00'LD'	MAAHIC WAY	40	7	-	-	-	17	-
		463+00'LD'	- 485+64'LD'	MAAHIC WAY	80	9	-	-	-	178	-
		528+59'LL'	- 536+35'LL'	LUDS LN	-	4	-	24	-	-	-
				POND A	-	-	-	24	-	46	-
				POND B1	-	-	-	-	-	-	-
				POND B2	-	2	-	-	-	-	-
				POND C	-	-	-	-	-	-	-
				POND D	-	1	-	-	-	14	-
				SUBTOTALS	510	81	0	72	0	1,553	1,370
				UNDISTRIBUTED (25%)	130	19	8	18	0	388	342
				TOTAL 0010	640	100	8	90	0	1,941	1,712
3080-01-76	0020	323+99'MP'	- 346+82'MP'	MILLPOND RD	30	12	-	24	27	94	-
		346+82'MP'	- 386+11'MP'	MILLPOND RD	20	-	-	-	-	-	-
		386+11'MP'	- 394+07'MPE'	MILLPOND RD	10	22	-	-	-	131	-
				SUBTOTALS	60	34	0	24	27	225	0
				UNDISTRIBUTED (25%)	17	8	2	6	7	55	0
				TOTAL 0020	77	42	2	30	34	280	0
				PROJECT 3080-01-76 TOTAL	717	142	10	120	34	2221	1712

SEEDING NATIVE POLLINATOR MIX UPLAND & MIX SWALE ITEMS

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	SPV.0005.01 SPECIAL (01.PRE-PLANTING VEGETATION TREATMENT) ACRE	SPV.0005.02 SPECIAL (02. SEED BED PREPARATION) ACRE	SPV.0060.20 SPECIAL (20. NATIVE SEED SURVEILLANCE AND CARE CYCLES) EACH	SPV.0085.01 SPECIAL (01. SEEDING NATIVE POLLINATOR MIX UPLAND) LB	SPV.0085.02 SPECIAL (02. MIX SWALE) LB	REMARKS
3080-01-76	0010	1C	WISDOT PARCEL	2.8	2.8	8	42	42	SEE EROSION CONTROL PLANS FOR LOCATION
			STAGE 1C SUBTOTALS	2.8	2.8	8	42	42	
			PROJECT 3080-01-76 TOTAL	2.8	2.8	8	42	42	

3

FINISHING ITEMS

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0205 FERTILIZER TYPE A CWT	630.0110 SEEDING MIXTURE NO. 10 LB	630.0120 SEEDING MIXTURE NO. 20 LB	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
3080-01-76	0010	118+59'EB'	-	131+91'EB'	US 12/18 EB, RT	2,100	1,409	2	-	-	59	-	89	74
		141+00'EB'	-	180+57'EB'	US 12/18 EB, RT	1,624	1,624	1	11	-	14	-	44	36
		185+66'EB'	-	221+57'EB'	US 12/18 EB, RT	3,257	1,541	3	-	-	75	-	113	94
		129+94'EB'	-	221+67'EB'	US 12/18 EB, MEDIAN	38,606	29,423	24	-	-	695	-	1,042	867
		129+94'WB'	-	182+86'WB'	US 12/18 WB, LT	19,062	11,912	13	156	-	151	-	539	448
		185+03'WB'	-	208+76'WB'	US 12/18 WB, LT	4,233	2,918	3	-	-	76	-	114	95
		680+77'A'	-	695+12'A'	RAMP A	16,435	15,947	12	-	416	51	-	492	409
		698+26'B'	-	724+67'B'	RAMP B	24,340	5,820	17	-	557	99	-	705	587
		799+21'C'	-	813+70'C'	RAMP C	18,094	14,027	13	-	408	86	-	537	446
		982+00'D'	-	996+03'D'	RAMP D	14,953	11,209	11	65	212	74	-	452	376
		31+91'E'	-	44+33'E'	RAMP E	1,740	1,740	2	11	-	40	-	81	67
		437+75'LD'	-	446+00'LD'	MAAHIC WAY	5,776	5,225	4	53	-	38	-	162	135
		446+00'LD'	-	460+00'LD'	MAAHIC WAY	13,516	12,271	9	132	-	86	-	393	327
		460+00'LD'	-	486+21'LD'	MAAHIC WAY	18,608	14,221	13	151	-	155	-	535	445
		528+59'LL'	-	536+35'LL'	LUDS LN	2,428	2,428	2	33	-	-	-	66	55
					POND A	8,810	-	6	119	-	-	-	238	198
					POND B1	13,024	5,478	8	155	-	-	27	352	293
					POND B2	8,109	1,315	5	51	118	-	-	219	182
					POND C	3,633	908	2	49	-	-	-	98	82
					POND D	4,988	1,391	3	67	-	-	-	135	112
					SUBTOTALS	223,336	140,807	153	1,053	1,711	1,699	27	6,406	5,328
					UNDISTRIBUTED (25%)	55,834	35,203	37	267	429	426	8	1,604	1,332
					TOTAL 0010	279,170	176,010	190	1,320	2,140	2,125	35	8,010	6,660
3080-01-76	0020	44+33'E'	-	45+64'E'	RAMP 'E'	201	201	-	-	-	4	-	5	5
		323+99'MP'	-	346+82'MP'	MILLPOND RD	11,587	9,621	7	-	-	56	152	313	260
		346+82'MP'	-	386+11'MP'	MILLPOND RD	13,197	59	8	51	-	128	42	356	296
		386+11'MP'	-	394+07'MPE'	MILLPOND RD	6,612	4,198	4	63	-	35	-	179	149
		58+83'MRW'	-	63+62'MRW'	MAINTENANCE RD (WEST)	1,899	-	1	-	-	-	34	51	43
		369+70'MRE	-	385+35'MRE'	MAINTENANCE RD (EAST)	1,470	-	1	-	-	-	26	40	33
					SUBTOTALS	34,966	14,079	21	114	0	223	254	944	786
					UNDISTRIBUTED (25%)	8,744	3,522	5	29	0	55	64	237	197
					TOTAL 0020	43,710	17,601	26	143	0	278	318	1,181	983
					PROJECT 3080-01-76 TOTAL	322880	193611	216	1463	2140	2403	353	9191	7643

EROSION CONTROL MOBILIZATION

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
3080-01-76	0010	1	USH 12/CTH AB	3	3
		2	USH 12/CTH AB	2	2
		3	USH 12/CTH AB	2	2
		4	USH 12/CTH AB	1	1
			TOTAL 0010	8	8
3080-01-76	0020	1	MILLPOND RD	3	3
		2	MILLPOND RD	2	2
		3	MILLPOND RD	1	1
		4	MILLPOND RD	1	1
			TOTAL 0020	7	7
			PROJECT 3080-01-76 TOTAL	15	15

DELINEATOR ITEMS

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	204.0180 REMOVING DELINEATORS AND MARKERS EACH	633.0100 DELINEATOR POSTS STEEL EACH	633.0500 DELINEATOR REFLECTORS (WHITE) EACH	DELINEATOR REFLECTORS (YELLOW) EACH	633.1000 DELINEATORS BARRIER WALL (WHITE) EACH
3080-01-76	0010	121+50'EB'	-	131+91'EB'	USH 12/18 EB RT SHLD	8	3	3	-	-
		147+00'EB'	-	180+57'EB'	USH 12/18 EB RT SHLD	-	-	-	-	9
		155+50'EB'	-	156+00'EB'	USH 12/18 EB MEDIAN	-	2	-	2	-
		186+00'EB'	-	209+35'EB'	USH 12/18 EB RT SHLD	-	4	4	-	1
		211+11'EB'	-	221+67'EB'	USH 12/18 EB RT RAMP SHLD	-	11	22	-	-
		129+94'WB	-	172+56'WB'	USH 12/18 WB LT SHLD	-	10	10	-	-
		172+56'WB	-	180+12'WB'	USH 12/18 WB LT RAMP SHLD	-	4	8	-	4
		185+03'WB	-	208+76'WB'	USH 12/18 WB LT SHLD	-	4	4	-	1
		214+00'WB	-	220+20'WB'	USH 12/18 WB LT SHLD	-	1	1	-	-
		680+77'A'	-	694+50'A'	RAMP A	-	9	9	-	5
		698+35'B'	-	724+67'B'	RAMP B	-	13	15	-	-
		799+40'C'	-	813+70'C'	RAMP C	-	16	21	-	-
		980+12'D'	-	996+03'D'	RAMP D	-	4	4	-	11
		31+91'E'	-	43+00'E'	RAMP 'E', RT SHLD	-	8	14	-	-
								115	2	
					TOTAL 0010	8	89	117		31

PERMANENT SIGNING ITEMS - TYPE I

PROJECT NUMBER	CATEGORY	SIGN NUMBER	SIGN CODE	SIZE (INCH)	SIZE (INCH)	MESSAGE	531.1100 CONCRETE MASONRY ANCILLARY STRUCTURES TYPE NS CY	531.1140 STEEL REINFORCEMENT HS ANCILLARY STRUCTURES TYPE NS LB	531.2024 DRILLING SHAFT 24-INCH LF	635.0300 SIGN SUPPORTS STRUCTURAL STEEL HS LB	637.1220 SIGNS TYPE I REFLECTIVE S- SF	SUPPORT LENGTHS FT	REMARKS
3080-01-76	0010	01-01	E1-5P	120	30	MILLPOND RD 1/4 MI	-	-	-	-	25.00		OVERHEAD, S-13-569
			E6-51	180	66		-	-	-	-	82.50		
			E11-1	180	36		-	-	-	-	45.00		
		02-02	E3-1	204	138	MCFARLAND/LAKE KEGONSA	2.4	360	20	1,105.0	195.50	11.9	
		02-05	E1-5P	120	30	EXIT 268	-	-	-	-	25.00		OVERHEAD, S-13-570
			E6-1	180	42	MILLPOND RD	-	-	-	-	52.50		
			E11-1D	180	42	EXIT ONLY	-	-	-	-	52.50		
		03-12	E1-5P	120	30	EXIT 269	2.4	360	20	1,248.0	25.00	24.24	
			E1-1A	192	156	AB/MADISON/MCFARLAND	-	-	-	-	208.00		
		05-01	E3-1	180	84	MAAHC WAY/LANDFILL DR	1.8	284	15	576.0	105.00	16,16	
		05-02	E1-5P	120	30	EXIT 269	-	-	-	-	25.00		OVERHEAD, S-13-571
			E6-1	168	108	AB/MADISON/MCFARLAND	-	-	-	-	126.00		
			E11 1D	168	42	EXIT ONLY					49.00		
		07-02	E1-5P	120	30	EXIT 269	2.4	360	20	962.0	25.00	20,17	
			E4-1A	228	126	AB/MCFARLAND/MADISON		-	-	-	199.50		
		08-04	E3-1	156	108	MAAHC WAY/LANDFILL DR	2.0	332	17	924.0	105.00	28,22	
		09-02	D2-2	228	60	CAMBRIDGE/FORT ATKINSON	2.0	332	17	748.0	95.00	17,17	
		09-03	E1-5P	120	30	EXIT 269	2.4	360	20	1,482.0	25.00	28,29	
			E1 1A	192	156	MCFARLAND/MADISON					208.00		
		09-04	E3-1	204	120	MCFARLAND/LAKE KEGONSA	2.4	360	20	1,196.0	170.00	22,24	
		19-04	E6-52	120	60	AB/MADISON	-	-	-	-	50.00		OVERHEAD, S-13-562
		19-05	E6-54R	108	84	AB/MCFARLAND	-	-	-	-	63.00		OVERHEAD, S-13-562
		20-05	E6-52	144	60	AB/MCFARLAND	-	-	-	-	60.00		OVERHEAD, S-13-564
		20-06	E6-54R	96	84	USH 12/18 WB EXIT RAMP	-	-	-	-	56.00		OVERHEAD, S-13-564
						TOTAL 0010	17.8	2,608	149	8,241.0	2,072.50		

PERMANENT SIGNING ITEMS - TYPE II

PROJECT NUMBER	CATEGORY	SIGN NUMBER	SIGN CODE	SIZE (INCH)	SIZE (INCH)	DESCRIPTION	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0622 POSTS WOOD 4X6-INCH X 22-FT EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
3080-01-76	0010	02-01	J4-4	144	54	12/18/39	-	-	-	3	-	-	-	54.00	-	-	
		M02-01	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		02-03	R2-1	48	60	SL 55	-	-	-	2	-	-	-	20.00	-	-	
		02-04	R2-1	48	60	SL 55	-	-	-	2	-	-	-	20.00	-	-	
		02-06	E5-1A	72	60	EXIT 268	-	-	-	-	-	2	-	30.00	-	-	
		02-07	E13-1P	72	24	15 MPH	-	-	-	-	-	-	-	12.00	-	-	
		02-08	R7-64	48	30	NO PARKING	-	1	-	-	-	-	-	10.00	-	-	
		02-09	R2-1	24	30	SL 30	-	1	-	-	-	-	-	5.00	-	-	
		M03-01	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		M03-02	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		03-01	W13-3D	48	84	RAMP 15 MPH	-	-	-	-	2	-	-	-	-	28.00	
		03-02	W2-6	30	30	CIRC ARROWS	-	-	-	-	-	-	2	-	-	6.25	BANDED TO PROPOSED LIGHT POLE
		03-03	W13-1	18	18	15 MPH	-	-	-	-	-	-	-	-	-	2.25	BANDED TO PROPOSED LIGHT POLE
		03-06	W12-1D	48	48	DOUBLE DOWN ARROWS	1	-	-	-	-	-	-	-	-	16.00	2' MOUNTING HEIGHT
		03-08	D1-2	72	24	HO-CHUNK	-	2	-	-	-	-	-	12.00	-	-	
		03-09	W1-8	30	36	CHEVRON	-	-	1	-	-	-	-	-	-	7.50	
		03-10	W1-8	30	36	CHEVRON	-	-	1	-	-	-	-	-	-	7.50	
		03-11	W1-8	30	36	CHEVRON	-	-	1	-	-	-	-	-	-	7.50	
		03-16	W5-1	36	36	ROAD NARROWS	-	1	-	-	-	-	-	-	-	9.00	
		M03-03	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		M03-04	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		04-01	R3-4-B	36	48	NO UTURN	-	-	1	-	-	-	-	12.00	-	-	
		M04-01	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		M04-02	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		04-02	R2-1	48	60	SL 55	-	-	-	2	-	-	-	20.00	-	-	
		04-03	R4-3	48	60	SLOW TR KEEP RT	-	-	-	2	-	-	-	20.00	-	-	
		04-04	R8-7	48	36	EMERG STOP ONLY	-	-	1	-	-	-	-	12.00	-	-	
		04-05	R3-4-B	36	48	NO UTURN	-	-	1	-	-	-	-	12.00	-	-	
		04-07	R1-1	30	30	STOP	-	1	-	-	-	-	-	5.18	-	-	
		M05-01	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		M05-02	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		M05-03	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		M05-04	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		05-03	R7-64	48	30	NO PARKING	-	1	-	-	-	-	-	10.00	-	-	
		05-04	R2-1	24	30	SL 30	-	1	-	-	-	-	-	5.00	-	-	
		05-05	W3-1	36	36	STOP AHEAD	-	1	-	-	-	-	-	-	-	9.00	
		05-06	J4-2	72	54	12/18	-	-	-	2	-	-	-	27.00	-	-	
		M06-01	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		M06-02	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		06-01	W2-6	30	30	CIRC ARROWS	-	-	1	-	-	-	-	-	-	6.25	
		06-02	W13-1	18	18	15 MPH	-	-	-	-	-	-	-	-	-	2.25	
		06-03	E5-1A	72	60	EXIT 269	-	-	-	2	-	-	-	30.00	-	-	
		06-04	M1-94	60	21	HWY AB	-	2	-	-	-	-	-	8.75	-	-	
		06-05	M1-94	60	21	HWY AB	-	2	-	-	-	-	-	8.75	-	-	
		06-06	W4-1R	48	48	ARROW	-	-	-	2	-	-	-	-	-	16.00	
		M07-01	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		M07-02	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		M07-03	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		M07-04	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

CONTINUED ON NEXT PAGE

PERMANENT SIGNING ITEMS - TYPE II (CONTINUED)

PROJECT NUMBER	CATEGORY	SIGN NUMBER	SIGN CODE	SIZE (INCH)	SIZE (INCH)	DESCRIPTION	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0622 POSTS WOOD 4X6-INCH X 22-FT EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
3080-01-76	0010	07-01	W4-1R	48	48	ARROW	-	-	-	2	-	-	-	-	-	16.00	
		07-03	R7-64	48	30	NO PARKING	-	1	-	-	-	-	-	10.00	-	-	
		07-04	E5-1A	72	60	EXIT 269	-	-	-	2	-	-	-	30.00	-	-	
		07-05	W2-6	30	30	CIRC ARROWS	-	-	1	-	-	-	-	-	-	6.25	
		07-06	W13-1	18	18	15 MPH	-	-	-	-	-	-	-	-	-	2.25	
		07-07	W11-6	48	48	SNOWMOBILE SYMBOL	-	-	-	2	-	-	-	-	-	16.00	
		07-08	W11-6	48	48	SNOWMOBILE SYMBOL	-	-	-	2	-	-	-	-	-	16.00	
		07-08	W11-6	48	48	SNOWMOBILE SYMBOL	-	-	-	2	-	-	-	-	-	16.00	
		08-01	J4-4	144	54	12/18/39	-	-	-	3	-	-	-	54.00	-	-	
		08-02	R5-57	36	36	PED BIKES	-	-	1	-	-	-	-	9.00	-	-	
		08-03	R5-57B	36	30	BEYOND NEXT EXIT	-	-	-	-	-	-	-	7.50	-	-	
		08-05	R3-4-B	36	48	NO UTURN	-	-	1	-	-	-	-	12.00	-	-	
		08-06	R3-4-B	36	48	NO UTURN	-	-	-	-	-	-	-	12.00	-	-	
		08-07	W11-6	48	48	SNOWMOBILE SYMBOL	-	-	-	2	-	-	-	-	-	16.00	
		08-08	W11-6	48	48	SNOWMOBILE SYMBOL	-	-	-	2	-	-	-	-	-	16.00	
		M08-01	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		M08-02	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		09-01	R2-1	48	60	SL 55	-	-	-	2	-	-	-	20.00	-	-	
		M09-01	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		M09-02	D10-5			REF MARKER	-	-	-	-	-	-	-	-	-	-	
		17-14	R5-57	36	36	PED BIKES	-	-	1	-	-	-	-	9.00	-	-	
		17-15	R7-64	48	30	NO PARKING	-	-	1	-	-	-	-	10.00	-	-	
		19-01	D1-2	72	30	MADISON/MCFARLAND	-	-	-	2	-	-	-	15.00	-	-	
		19-02	D1-1	90	24	MAAHIC WAY/LANDFILL DR	-	-	-	2	-	-	-	15.00	-	-	
		19-03	D1-2	90	24	LAKE KEGONSA	-	-	-	-	-	-	-	15.00	-	-	
		19-06	R3-8 H R	36	30	ARROWS	-	-	-	-	-	-	-	7.50	-	-	BANDED TO S-13-562
		19-07	R5-1A	36	24	WRONG WAY	-	-	-	-	-	-	-	6.00	-	-	BANDED TO S-13-563
		19-08	R5-1A	36	24	WRONG WAY	-	-	1	-	-	-	-	6.00	-	-	
		19-09	R3-8 H R	36	30	ARROWS	-	-	-	-	-	-	-	7.50	-	-	
		20-01	D1-2	72	30	MCFARLAND/MADISON	-	-	-	2	-	-	-	15.00	-	-	
		20-02	D1-2	90	24	LAKE KEGONSA	-	-	-	2	-	-	-	15.00	-	-	
		20-03	D1-2	90	24	MAAHIC WAY/LANDFILL DR	-	-	-	-	-	-	-	15.00	-	-	
		20-04	R3-8 H R	36	30	ARROWS	-	1	-	-	-	-	-	7.50	-	-	
		20-07	R3-8 H R	36	30	ARROWS	-	-	-	-	-	-	-	7.50	-	-	BANDED TO STRUCTURE UPRIGHT
		20-08	R5-1A	36	24	WRONG WAY	-	-	-	-	-	-	-	6.00	-	-	BANDED TO STRUCTURE UPRIGHT
		20-09	R5-1A	36	24	WRONG WAY	-	-	-	-	-	-	-	6.00	-	-	BANDED TO STRUCTURE UPRIGHT
		20-10	W12-1D	24	24	DOUBLE DOWN ARROWS	1	-	-	-	-	-	-	-	-	4.00	
		21-01	R7-64	48	30	NO PARKING	-	1	-	-	-	-	-	10.00	-	-	
		22-01	W1-1L	36	36	LEFT ARROW	-	-	1	-	-	-	-	-	-	9.00	
		22-02	W13-1	18	18	ADV SL 15	-	-	-	-	-	-	-	-	-	2.25	
		22-03	W5-56	18	18	END OF ROAD MARKER	-	1	-	-	-	-	-	-	2.25	-	
		22-04	W5-56	18	18	END OF ROAD MARKER	-	1	-	-	-	-	-	-	2.25	-	
		22-05	W5-56	18	18	END OF ROAD MARKER	-	1	-	-	-	-	-	-	2.25	-	
		22-06	W1-1R	36	36	RIGHT ARROW	-	-	1	-	-	-	-	-	-	9.00	
		22-07	W13-1	18	18	ADV SL 15	-	-	-	-	-	-	-	-	-	2.25	
		M22-01	W14-1			DEAD END	-	-	-	-	-	-	-	-	-	-	MOVE SIGN DOWN EXIST POST
						TOTAL 0010	2	19	15	44	2	2	2	661.18	6.75	248.50	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

CONTINUED ON NEXT PAGE

PERMANENT SIGNING ITEMS - TYPE II (CONTINUED)

PROJECT NUMBER	CATEGORY	SIGN NUMBER	SIGN CODE	SIZE (INCH)	SIZE (INCH)	DESCRIPTION	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0622 POSTS WOOD 4X6-INCH X 22-FT EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
3080-01-76	0020	03-04	W2-6	30	30	CIRC ARROWS	-	-	-	-	-	-	-	-	-	-	BANDED TO PROPOSED LIGHT POLE
		03-05	W13-1	18	18	15 MPH	-	-	-	-	-	-	2	-	-	-	BANDED TO PROPOSED LIGHT POLE
		03-07	R2-1	24	30	SL 30	-	-	-	-	-	-	-	-	-	-	
		03-13	R2-1	24	30	SL 30	-	-	-	-	-	-	-	-	-	-	BANDED TO PROPOSED LIGHT POLE
		03-14	W2-6	30	30	CIRC ARROWS	-	-	-	-	-	-	2	-	-	-	
		03-15	W13-1	18	18	15 MPH	-	-	-	-	-	-	-	-	-	-	
		03-17	R1-1	30	30	STOP	-	-	-	-	-	-	-	-	-	-	
		10-01	R7-1-D	18	24	NO PARKING	-	-	-	-	-	-	-	-	-	-	BANDED TO PROPOSED LIGHT POLE
		10-02	R7-1-D	18	24	NO PARKING	-	-	-	-	-	-	-	-	-	-	BANDED TO PROPOSED LIGHT POLE
		10-03	R2-1	24	30	SL 30	-	-	-	-	-	-	-	-	-	-	BANDED TO PROPOSED LIGHT POLE
		10-04	R7-1-D	18	24	NO PARKING	-	-	-	-	-	-	-	-	-	-	
		10-05	D3-3			LONG DR	-	-	-	-	-	-	-	-	-	-	
		10-06	D3-3			MILLPOND RD	-	-	-	-	-	-	-	-	-	-	
		10-07	R1-1	30	30	STOP	-	-	-	-	-	-	-	-	-	-	
		10-08	R2-1	24	30	SL 25	-	-	-	-	-	-	-	-	-	-	
		10-09	R7-1-D	18	24	NO PARKING	-	-	-	-	-	-	-	-	-	-	
		11-01	R4-7	24	30	STAY RIGHT	-	-	-	-	-	-	-	-	-	-	
		11-02	R1-2	36	31	YIELD	-	-	-	-	-	-	2	-	-	-	
		11-03	R1-2	36	31	YIELD	-	-	-	-	-	-	2	-	-	-	
		11-04	R6-1R	36	12	ONE WAY	-	-	-	-	-	-	-	-	-	-	
		11-05	R6-4B	60	24	DIR ARROW	-	-	-	-	-	-	-	-	-	-	
		11-06	R6-1R	36	12	ONE WAY	-	-	-	-	-	-	-	-	-	-	
		11-07	R6-4B	60	24	DIR ARROW	-	-	-	-	-	-	-	-	-	-	
		11-08	R6-1R	36	12	ONE WAY	-	-	-	-	-	-	-	-	-	-	
		11-09	R6-4B	60	24	DIR ARROW	-	-	-	-	-	-	-	-	-	-	
		11-10	R1-2	36	31	YIELD	-	-	-	-	-	-	2	-	-	-	
		11-11	R1-2	36	31	YIELD	-	-	-	-	-	-	2	-	-	-	
		11-12	R4-7	24	30	STAY RIGHT	-	-	-	-	-	-	-	-	-	-	
		11-13	R3-1	24	24	NO RIGHT TURN	-	-	-	-	-	-	-	-	-	-	
		11-14	R5-1	30	30	DO NOT ENTER	-	-	-	-	-	-	-	-	-	-	
		11-15	R1-2	36	31	YIELD	-	-	-	-	-	-	2	-	-	-	
		11-16	R1-2	36	31	YIELD	-	-	-	-	-	-	2	-	-	-	
		12-01	W6-1	36	36	DIV HWY AH SYMBOL	-	-	-	-	-	-	-	-	-	-	BANDED TO PROPOSED LIGHT POLE
		12-02	J1-1	24	39	JCT AB	-	-	-	-	-	-	-	-	-	-	
		12-03	W2-6	30	30	CIRC ARROWS	-	-	-	-	-	-	2	-	-	-	BANDED TO PROPOSED LIGHT POLE
		12-04	W13-1	18	18	15 MPH	-	-	-	-	-	-	-	-	-	-	BANDED TO PROPOSED LIGHT POLE
		12-05	JV	24	81	TO 12/18	-	-	-	-	-	-	-	-	-	-	
		12-12	W6-3	36	36	TWO-WAY TRAFF SYMBOL	-	-	-	-	-	-	-	-	-	-	
						TOTAL 0020	0	0	0	0	0	0	18	0.00	0.00	0.00	
						PROJECT 3080-01-76 TOTAL	2	19	15	44	2	2	20	661.18	6.75	248.50	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

CONTINUED ON NEXT PAGE

PERMANENT SIGNING ITEMS - TYPE II (CONTINUED)

PROJECT NUMBER	CATEGORY	SIGN NUMBER	SIGN CODE	SIZE (INCH)	SIZE (INCH)	DESCRIPTION	* 638.2102 MOVING SIGNS TYPE II EACH	SPV.0060.30 SPECIAL (30. INSTALL CITY PROVIDED SIGN) EACH	SPV.0060.31 SPECIAL (31. PRECAST SIGN POST BASE) EACH	SPV.0060.32 SPECIAL (32. SIGN POST BASE FOR CONCRETE INSTALLATION) EACH	SPV.0090.02 SPECIAL (02. SIGN POSTS) LF	REMARKS
3080-01-76	0010	02-01	J4-4	144	54	12/18/39	-	-	-	-	-	
		M02-01	D10-5			REF MARKER	1	-	-	-	-	
		02-03	R2-1	48	60	SL 55	-	-	-	-	-	
		02-04	R2-1	48	60	SL 55	-	-	-	-	-	
		02-06	E5-1A	72	60	EXIT 268	-	-	-	-	-	
		02-07	E13-1P	72	24	15 MPH	-	-	-	-	-	
		02-08	R7-64	48	30	NO PARKING	-	-	-	-	-	
		02-09	R2-1	24	30	SL 30	-	-	-	-	-	
		M03-01	D10-5			REF MARKER	1	-	-	-	-	
		M03-02	D10-5			REF MARKER	1	-	-	-	-	
		03-01	W13-3D	48	84	RAMP 15 MPH	-	-	-	-	-	
		03-02	W2-6	30	30	CIRC ARROWS	-	-	-	-	-	BANDED TO PROPOSED LIGHT POLE
		03-03	W13-1	18	18	15 MPH	-	-	-	-	-	BANDED TO PROPOSED LIGHT POLE
		03-06	W12-1D	48	48	DOUBLE DOWN ARROWS	-	-	-	-	-	2' MOUNTING HEIGHT
		03-08	D1-2	72	24	HO-CHUNK	-	-	-	-	-	
		03-09	W1-8	30	36	CHEVRON	-	-	-	-	-	
		03-10	W1-8	30	36	CHEVRON	-	-	-	-	-	
		03-11	W1-8	30	36	CHEVRON	-	-	-	-	-	
		03-16	W5-1	36	36	ROAD NARROWS	-	-	-	-	-	
		M03-03	D10-5			REF MARKER	1	-	-	-	-	
		M03-04	D10-5			REF MARKER	1	-	-	-	-	
		04-01	R3-4-B	36	48	NO UTURN	-	-	-	-	-	
		M04-01	D10-5			REF MARKER	1	-	-	-	-	
		M04-02	D10-5			REF MARKER	1	-	-	-	-	
		04-02	R2-1	48	60	SL 55	-	-	-	-	-	
		04-03	R4-3	48	60	SLOW TR KEEP RT	-	-	-	-	-	
		04-04	R8-7	48	36	EMERG STOP ONLY	-	-	-	-	-	
		04-05	R3-4-B	36	48	NO UTURN	-	-	-	-	-	
		04-07	R1-1	30	30	STOP	-	-	-	-	-	
		M05-01	D10-5			REF MARKER	1	-	-	-	-	
		M05-02	D10-5			REF MARKER	1	-	-	-	-	
		M05-03	D10-5			REF MARKER	1	-	-	-	-	
		M05-04	D10-5			REF MARKER	1	-	-	-	-	
		05-03	R7-64	48	30	NO PARKING	-	-	-	-	-	
		05-04	R2-1	24	30	SL 30	-	-	-	-	-	
		05-05	W3-1	36	36	STOP AHEAD	-	-	-	-	-	
		05-06	J4-2	72	54	12/18	-	-	-	-	-	
		M06-01	D10-5			REF MARKER	1	-	-	-	-	
		M06-02	D10-5			REF MARKER	1	-	-	-	-	
		06-01	W2-6	30	30	CIRC ARROWS	-	-	-	-	-	
		06-02	W13-1	18	18	15 MPH	-	-	-	-	-	
		06-03	E5-1A	72	60	EXIT 269	-	-	-	-	-	
		06-04	M1-94	60	21	HWY AB	-	-	-	-	-	
		06-05	M1-94	60	21	HWY AB	-	-	-	-	-	
		06-06	W4-1R	48	48	ARROW	-	-	-	-	-	
		M07-01	D10-5			REF MARKER	1	-	-	-	-	
		M07-02	D10-5			REF MARKER	1	-	-	-	-	
		M07-03	D10-5			REF MARKER	1	-	-	-	-	
		M07-04	D10-5			REF MARKER	1	-	-	-	-	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

CONTINUED ON NEXT PAGE

PERMANENT SIGNING ITEMS - TYPE II (CONTINUED)

PROJECT NUMBER	CATEGORY	SIGN NUMBER	SIGN CODE	SIZE (INCH)	SIZE (INCH)	DESCRIPTION	* 638.2102 MOVING SIGNS TYPE II EACH	SPV.0060.30 SPECIAL (30. INSTALL CITY PROVIDED SIGN) EACH	SPV.0060.31 SPECIAL (31. PRECAST SIGN POST BASE) EACH	SPV.0060.32 SPECIAL (32. SIGN POST BASE FOR CONCRETE INSTALLATION) EACH	SPV.0090.02 SPECIAL (02. SIGN POSTS) LF	REMARKS
3080-01-76	0010	07-01	W4-1R	48	48	ARROW	-	-	-	-	-	
		07-03	R7-64	48	30	NO PARKING	-	-	-	-	-	
		07-04	E5-1A	72	60	EXIT 269	-	-	-	-	-	
		07-05	W2-6	30	30	CIRC ARROWS	-	-	-	-	-	
		07-06	W13-1	18	18	15 MPH	-	-	-	-	-	
		07-07	W11-6	48	48	SNOWMOBILE SYMBOL	-	-	-	-	-	
		07-08	W11-6	48	48	SNOWMOBILE SYMBOL	-	-	-	-	-	
		07-08	W11-6	48	48	SNOWMOBILE SYMBOL	-	-	-	-	-	
		08-01	J4-4	144	54	12/18/39	-	-	-	-	-	
		08-02	R5-57	36	36	PED BIKES	-	-	-	-	-	
		08-03	R5-57B	36	30	BEYOND NEXT EXIT	-	-	-	-	-	
		08-05	R3-4-B	36	48	NO UTURN	-	-	-	-	-	
		08-06	R3-4-B	36	48	NO UTURN	-	-	-	-	-	
		08-07	W11-6	48	48	SNOWMOBILE SYMBOL	-	-	-	-	-	
		08-08	W11-6	48	48	SNOWMOBILE SYMBOL	-	-	-	-	-	
		M08-01	D10-5			REF MARKER	1	-	-	-	-	
		M08-02	D10-5			REF MARKER	1	-	-	-	-	
		09-01	R2-1	48	60	SL 55	-	-	-	-	-	
		M09-01	D10-5			REF MARKER	1	-	-	-	-	
		M09-02	D10-5			REF MARKER	1	-	-	-	-	
		17-14	R5-57	36	36	PED BIKES	-	-	-	-	-	
		17-15	R7-64	48	30	NO PARKING	-	-	-	-	-	
		19-01	D1-2	72	30	MADISON/MCFARLAND	-	-	-	-	-	
		19-02	D1-1	90	24	MAAHIC WAY/LANDFILL DR	-	-	-	-	-	
		19-03	D1-2	90	24	LAKE KEGONSA	-	-	-	-	-	
		19-06	R3-8 H R	36	30	ARROWS	-	-	-	-	-	BANDED TO S-13-562
		19-07	R5-1A	36	24	WRONG WAY	-	-	-	-	-	BANDED TO S-13-563
		19-08	R5-1A	36	24	WRONG WAY	-	-	-	-	-	
		19-09	R3-8 H R	36	30	ARROWS	-	-	-	-	-	
		20-01	D1-2	72	30	MCFARLAND/MADISON	-	-	-	-	-	
		20-02	D1-2	90	24	LAKE KEGONSA	-	-	-	-	-	
		20-03	D1-2	90	24	MAAHIC WAY/LANDFILL DR	-	-	-	-	-	
		20-04	R3-8 H R	36	30	ARROWS	-	-	-	-	-	
		20-07	R3-8 H R	36	30	ARROWS	-	-	-	-	-	BANDED TO STRUCTURE UPRIGHT
		20-08	R5-1A	36	24	WRONG WAY	-	-	-	-	-	BANDED TO STRUCTURE UPRIGHT
		20-09	R5-1A	36	24	WRONG WAY	-	-	-	-	-	BANDED TO STRUCTURE UPRIGHT
		20-10	W12-1D	24	24	DOUBLE DOWN ARROWS	-	-	-	-	-	
		21-01	R7-64	48	30	NO PARKING	-	-	-	-	-	
		22-01	W1-1L	36	36	LEFT ARROW	-	-	-	-	-	
		22-02	W13-1	18	18	ADV SL 15	-	-	-	-	-	
		22-03	W5-56	18	18	END OF ROAD MARKER	-	-	-	-	-	
		22-04	W5-56	18	18	END OF ROAD MARKER	-	-	-	-	-	
		22-05	W5-56	18	18	END OF ROAD MARKER	-	-	-	-	-	
		22-06	W1-1R	36	36	RIGHT ARROW	-	-	-	-	-	
		22-07	W13-1	18	18	ADV SL 15	-	-	-	-	-	
		M22-01	W14-1			DEAD END	1	-	-	-	-	MOVE SIGN DOWN EXIST POST
						TOTAL 0010	22	0	0	0	0	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

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PERMANENT SIGNING ITEMS - TYPE II (CONTINUED)

PROJECT NUMBER	CATEGORY	SIGN NUMBER	SIGN CODE	SIZE (INCH)	SIZE (INCH)	DESCRIPTION	* 638.2102 MOVING SIGNS TYPE II EACH	SPV.0060.30 SPECIAL (30. INSTALL CITY PROVIDED SIGN) EACH	SPV.0060.31 SPECIAL (31. PRECAST SIGN POST BASE) EACH	SPV.0060.32 SPECIAL (32. SIGN POST BASE FOR CONCRETE INSTALLATION) EACH	SPV.0090.02 SPECIAL (02. SIGN POSTS) LF	REMARKS
3080-01-76	0020	03-04	W2-6	30	30	CIRC ARROWS	-	1	-	-	-	BANDED TO PROPOSED LIGHT POLE
		03-05	W13-1	18	18	15 MPH	-	1	-	-	-	BANDED TO PROPOSED LIGHT POLE
		03-07	R2-1	24	30	SL 30	-	1	1	-	10	
		03-13	R2-1	24	30	SL 30	-	1	-	-	-	BANDED TO PROPOSED LIGHT POLE
		03-14	W2-6	30	30	CIRC ARROWS	-	1	1	-	14	
		03-15	W13-1	18	18	15 MPH	-	1	-	-	-	
		03-17	R1-1	30	30	STOP	-	1	1		10	
		10-01	R7-1-D	18	24	NO PARKING	-	1	-	-	-	BANDED TO PROPOSED LIGHT POLE
		10-02	R7-1-D	18	24	NO PARKING	-	1	-	-	-	BANDED TO PROPOSED LIGHT POLE
		10-03	R2-1	24	30	SL 30	-	1	-	-	-	BANDED TO PROPOSED LIGHT POLE
		10-04	R7-1-D	18	24	NO PARKING	-	1	1	-	10	
		10-05	D3-3			LONG DR	-	1	1	-	10	
		10-06	D3-3			MILLPOND RD	-	1	-	-	-	
		10-07	R1-1	30	30	STOP	-	1	1	-	10	
		10-08	R2-1	24	30	SL 25	-	1	1	-	10	
		10-09	R7-1-D	18	24	NO PARKING	-	1	1	-	10	
		11-01	R4-7	24	30	STAY RIGHT	-	1	-	1	10	
		11-02	R1-2	36	31	YIELD	-	1	-	1	10	
		11-03	R1-2	36	31	YIELD	-	1	1	-	10	
		11-04	R6-1R	36	12	ONE WAY	-	1	-	-	-	
		11-05	R6-4B	60	24	DIR ARROW	-	1	2	-	20	
		11-06	R6-1R	36	12	ONE WAY	-	1	-	-	-	
		11-07	R6-4B	60	24	DIR ARROW	-	1	2	-	20	
		11-08	R6-1R	36	12	ONE WAY	-	1	-	-	-	
		11-09	R6-4B	60	24	DIR ARROW	-	1	2	-	20	
		11-10	R1-2	36	31	YIELD	-	1	-	1	10	
		11-11	R1-2	36	31	YIELD	-	1	-	1	10	
		11-12	R4-7	24	30	STAY RIGHT	-	1	1	-	10	
		11-13	R3-1	24	24	NO RIGHT TURN	-	1	1	-	10	
		11-14	R5-1	30	30	DO NOT ENTER	-	1	1	-	10	
		11-15	R1-2	36	31	YIELD	-	1	1	-	10	
		11-16	R1-2	36	31	YIELD	-	1	1	-	10	
		12-01	W6-1	36	36	DIV HWY AH SYMBOL	-	1	-	-	-	BANDED TO PROPOSED LIGHT POLE
		12-02	J1-1	24	39	JCT AB	-	1	1	-	12	
		12-03	W2-6	30	30	CIRC ARROWS	-	1	-	-	-	BANDED TO PROPOSED LIGHT POLE
		12-04	W13-1	18	18	15 MPH	-	1	-	-	-	BANDED TO PROPOSED LIGHT POLE
		12-05	JV	24	81	TO 12/18	-	1	1	-	14	
		12-12	W6-3	36	36	TWO-WAY TRAFF SYMBOL	-	1	1	-	12	
						TOTAL 0020	0	38	23	4	282	
						PROJECT 3080-01-76 TOTAL	22	38	23	4	282	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

REMOVING SIGNS

PROJECT NUMBER	CATEGORY	SIGN NUMBER	SIGN MESSAGE	* 638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
3080-01-76	0010	R01-01	12/18/39/90	-	1	2	
		R01-02	SL 55	-	1	1	
		R01-03	SL 55	-	1	1	
		R01-04	LONG DR/MILLPOND RD	-	1	2	
		R01-05	BEGIN RT-TURN LANE	-	1	1	
		R01-06	LEFT LANE ENDS	-	1	1	
		R01-07	--	-	-	1	NO SIGN ON POST
		R02-01	WRONG WAY	-	1	1	
		R02-02	LEFT LANE ENDS	-	1	1	
		R02-03	DO NOT ENTER	-	1	1	
		R02-04	STAY RIGHT	-	1	-	BANDED TO LIGHT POLE
		R02-05	STAY RIGHT	-	1	1	
		R02-06	STAY RIGHT	1	1	-	MOVE FOR STAGING
		R02-07	DO NOT ENTER	-	1	1	
		R02-08	WRONG WAY	-	1	1	
		R02-09	CAMBRIDGE/FORT ATKINSON	-	1	4	
		R03-10	LANDFILL DR	-	1	2	
		R02-11	MILLPOND RD/ LONG DR	-	1	2	
		R02-12	PEDS/BIKES	-	1	1	
		R02-13	BEYOND NEXT INTERS	-	1	-	
		R02-14	NO OUTLET	1	1	1	MOVE FOR STAGING
		R02-15	STAY RIGHT	1	1	1	MOVE FOR STAGING
		R02-16	STOP	1	1	1	MOVE FOR STAGING
		R02-17	LANE ARROWS	-	1	1	
		R02-18	DOUBLE ARROW	1	1	1	MOVE FOR STAGING
		R02-19	ONE WAY	3	1	1	MOVE FOR STAGING
		R02-20	STOP	3	1	-	MOVE FOR STAGING
		R02-21	DIVIDED HIGHWAY	3	1	-	MOVE FOR STAGING
		R02-22	ONE WAY	3	1	-	MOVE FOR STAGING
		R02-23	STOP	1	1	1	MOVE FOR STAGING
		R02-24	NO OUTLET	-	1	1	
		R02-25	ONE WAY	-	1	1	
		R02-26	STOP	-	1	-	
		R02-27	DIVIDED HIGHWAY	-	1	-	
		R02-28	ONE WAY	-	1	-	
		R03-01	ONE WAY	-	1	1	
		R03-02	STAY RIGHT	-	1	1	
		R03-03	JCT AB	-	1	1	
		R03-04	JCT AB	-	1	1	
		R03-05	ONE WAY	-	1	1	
		R03-06	STOP	-	1	-	
		R03-07	DIVIDED HIGHWAY	-	1	-	
		R04-01	LAKE KEGONSA	-	1	2	
		R04-02	BEGIN LEFT TURN	-	1	1	
		R04-03	AB/ARROW	-	1	1	
		R04-04	DOUBLE ARROW	-	1	-	
		R04-05	DOUBLE ARROW	-	1	1	
		R04-06	WRONG WAY	-	1	1	
		R04-07	SL 55	-	1	1	
		R04-08	LANDFILL DR	-	1	2	
		R04-09	--	-	-	3	NO SIGN ON POSTS
		R05-01	DO NOT ENTER	-	1	1	
		R05-02	DO NOT ENTER	-	1	1	
		R05-03	STAY RIGHT	-	1	1	
		R05-04	STAY RIGHT	-	1	1	
		R05-05	WRONG WAY	-	1	1	
		R05-06	LEFT TURN LANE	-	1	-	
		R05-07	LEFT TURN LANE	-	1	1	
		R05-08	EAST 12/18	-	2	2	
		R05-09	SL 55	-	1	1	
		R05-10	ALT 39/90	-	1	2	
		R05-11	LAKE KEGONSA	-	1	2	
		R05-12	AB/ARROW	-	1	1	
		R05-13	DOUBLE ARROW	-	1	1	
		R05-14	WEST 12/18	-	2	2	
		R05-15	ONE WAY	-	1	1	
		R05-16	STOP	-	1	-	
		R05-17	DIVIDED HIGHWAY	-	1	-	
		R05-18	NO PARKING	-	1	1	
		R05-19	NO PARKING	-	1	1	
		R05-20	12/18	-	1	1	
		R05-21	STOP	-	1	1	
		R05-22	AB	-	1	1	
		R05-23	ADOPT/HIGHWAY	-	1	1	
		R05-24	CTH AB	-	1	1	
		R05-25	ADOPT/HIGHWAY	-	1	-	
		R05-26	SL 45	-	1	1	
		R05-27	12/18 ARROW	-	1	1	
		R05-28	STOP	-	1	1	
		R05-29	ONE WAY	-	1	1	
		R05-30	STOP	-	1	1	
		R05-31	DIVIDED HIGHWAY	-	1	-	
		R06-01	STAY RIGHT	-	1	1	
		R06-02	STAY RIGHT	-	1	1	
		R06-03	DO NOT ENTER	-	1	1	
		R06-04	WRONG WAY	-	1	1	
		R06-05	JCT AB	-	1	1	
		R06-06	JCT AB	-	1	1	
		R06-07	ONE WAY	-	1	1	
		R06-08	ONE WAY	-	1	1	
		R07-01	REF MARKER	-	1	1	
		R07-02	REF MARKER	-	1	1	
		R07-03	REF MARKER	-	1	-	
		R07-04	REF MARKER	-	1	-	
		R08-01	REF MARKER	-	1	1	
		R08-02	LAKE KEGONSA	-	1	2	
		R08-03	REF MARKER	-	1	-	
		R09-01	STOP AHEAD	-	1	1	
		R09-02	STOP AHEAD	-	1	1	
		R09-03	JCT 12/18	-	3	1	
		R09-04	NO PARKING	-	1	1	
		R09-05	NO PARKING	-	1	1	
		R09-06	JCT 12/18	-	3	1	
		R09-07	STOP AHEAD	-	1	1	
		R09-08	STOP AHEAD	-	1	1	
		R09-09	NO TURN AROUND	-	1	-	
			TOTAL 0010	18	110	101	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

TRAFFIC CONTROL ITEMS

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	APPROX. SERVICE PERIOD DAYS	QTY.	643.0300 TRAFFIC CONTROL DRUMS DAY	QTY.	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	QTY.	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	QTY.	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	QTY.	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	QTY.	643.0900 TRAFFIC CONTROL SIGNS DAY	QTY.	# CYCLES	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	QTY.	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	SPV.0045.01 SPECIAL (01. TEMPORARY PORTABLE RUMBLE STRIP ARRAYS NON-FLAGGING) DAY
3080-01-76	0010	1	USH 12/18	79	38	3002	3	237	6	474	0	0	0	0	148	11692	0	0	0	0	0	0
			STAGE 1 SUBTOTALS			3002		237		474		0		0		11692			0		0	0
		1A	USH 12/18	15	58	870	0	0	0	0	0	0	0	0	3	45	0	0	0	0	0	0
			STAGE 1A SUBTOTALS			870		0		0		0		0		45			0		0	0
		1B	USH 12/18	51	63	3213	0	0	0	0	0	0	0	0	3	153	0	0	0	0	0	0
			STAGE 1B SUBTOTALS			3213		0		0		0		0		153			0		0	0
		1C	USH 12/18	13	39	507	0	0	0	0	0	0	0	0	3	39	0	0	0	0	0	0
			STAGE 1C SUBTOTALS			507		0		0		0		0		39			0		0	0
		2	USH 12/18	79	151	11929	7	553	14	1106	14	1106	2	158	164	12956	0	0	0	0	0	0
			USH 12/18	24	605	14520	42	1008	82	1968	48	1152	4	96	117	2808	0	0	0	16	384	48
			STAGE 2 SUBTOTALS			26449		1561		3074		2258		254		15764			0		384	48
		2A	USH 12/18	35	89	3115	1	35	2	70	0	0	1	35	11	385	0	0	0	0	0	0
			STAGE 2A SUBTOTALS			3115		35		70		0		35		385			0		0	0
		2B	USH 12/18	44	94	4136	1	44	2	88	0	0	1	44	7	308	0	0	0	0	0	0
			STAGE 2B SUBTOTALS			4136		44		88		0		44		308			0		0	0
		3	USH 12/18	89	219	19491	25	2225	50	4450	14	1246	2	178	179	15931	0	0	0	2	14	0
			STAGE 3 SUBTOTALS			19491		2225		4450		1246		178		15931			0		14	0
		3A	USH 12/18	61	83	5063	4	244	8	488	23	1403	0	0	10	610	0	0	0	0	0	0
			STAGE 3A SUBTOTALS			5063		244		488		1403		0		610			0		0	0
		3B	USH 12/18	28	71	1988	4	112	8	224	18	504	2	56	11	308	0	0	0	0	0	0
			STAGE 3B SUBTOTALS			1988		112		224		504		56		308			0		0	0
		4A	USH 12/18	29	637	18473	52	1508	106	3074	70	2030	4	116	59	1711	0	0	0	2	14	0
			SB/EB ENT RAMP DETOUR	29	0	0	0	0	0	0	0	0	0	0	65	1885	6	1	6	1	7	0
			NB/EB RAMP DETOUR	29	0	0	0	0	0	0	0	0	0	0	62	1798	4	1	4	1	7	0
			STAGE 4A SUBTOTALS			18473		1508		3074		2030		116		5394			10		28	0
		4B	USH 12/18	37	389	14393	27	999	50	1850	26	962	4	148	43	1591	0	0	0	0	0	0
			NB/EB RAMP DETOUR	37	0	0	0	0	0	0	0	0	0	0	62	2294	0	0	0	0	0	0
			STAGE 4B SUBTOTALS			14393		999		1850		962		148		3885			0		0	0
			TOTAL 0010			100,700		6,965		13,792		8,403		831		54,514			10		426	48

CONTINUED ON NEXT PAGE

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TRAFFIC CONTROL ITEMS (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	APPROX. SERVICE PERIOD DAYS	QTY.	643.0300 TRAFFIC CONTROL DRUMS DAY	QTY.	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	QTY.	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	QTY.	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	QTY.	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	QTY.	643.0900 TRAFFIC CONTROL SIGNS DAY	QTY.	# CYCLES	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	QTY.	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	SPV.0045.01 SPECIAL (01. TEMPORARY PORTABLE RUMBLE STRIP ARRAYS NON-FLAGGING) DAY
3080-01-76	0020	1A	USH 12/18	15	36	540	0	0	0	0	0	0	0	0	3	45	0	0	0	0	0	0
			STAGE 1A SUBTOTALS			540		0		0		0		0		45			0		0	0
		1B	USH 12/18	51	86	4386	6	306	14	714	0	0	0	0	10	510	0	0	0	0	0	0
			STAGE 1B SUBTOTALS			4386		306		714		0		0		510			0		0	0
		1C	USH 12/18	13	49	637	1	13	4	52	0	0	0	0	5	65	0	0	0	0	0	0
			STAGE 1C SUBTOTALS			637		13		52		0		0		65			0		0	0
		2	USH 12/18	79	6	474	5	395	10	790	0	0	0	0	4	316	0	0	0	0	0	0
			STAGE 2 SUBTOTALS			474		395		790		0		0		316			0		0	0
		3	USH 12/18	89	26	2314	4	356	8	712	0	0	0	0	3	267	0	0	0	0	0	0
			STAGE 3 SUBTOTALS			2314		356		712		0		0		267			0		0	0
		4A	USH 12/18	29	81	2349	1	29	2	58	0	0	0	0	6	174	0	0	0	0	0	0
			STAGE 4A SUBTOTALS			2349		29		58		0		0		174			0		0	0
		4B	USH 12/18	37	34	1258	0	0	0	0	0	0	0	0	1	37	0	0	0	0	0	0
			STAGE 4B SUBTOTALS			1258		0		0		0		0		37			0		0	0
			TOTAL 0020			11,958		1,099		2,326		0		0		1,414			0		0	0
			PROJECT 3080-01-76 TOTAL			112658		8064		16118		8403		831		55928			10		426	48

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FLEXIBLE TUBULAR MARKER POST ITEMS

PROJECT NUMBER	CATEGORY	LOCATION	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH
3080-01-76	0010	PROJECT	15	15
		TOTAL 0010	15	15

FIXED MESSAGE SIGNS

PROJECT NUMBER	CATEGORY	LOCATION	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	REMARKS
3080-01-76	0010	USH 12/18	80.00	BUSINESSES OPEN DURING CONSTRUCTION
		IH 39/CTH N	12.50	HWY 18 EAST OPEN TO MILLPOND
		IH 39/CTH N	12.50	HWY 18 EAST OPEN TO MILLPOND
		IH 39/CTH N	12.50	HWY 18 EAST OPEN TO HWY AB
		IH 39/CTH N	12.50	HWY 18 EAST OPEN TO HWY AB
		SB IH 39	45.00	HWY 12-18 EAST RAMP CLOSED USE EXIT 142A
		NB IH 39	45.00	HWY 12-18 EAST RAMP CLOSED USE EXIT 142A
		TOTAL 0010	220.00	

GEOGRID

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	645.0220 GEOGRID TYPE SR SY
3080-01-76	0010	UNDISTRIBUTED				3,300
					TOTAL 0010	3,300
3080-01-76	0020	UNDISTRIBUTED				2,600
					TOTAL 0020	2,600
					PROJECT 3080-01-76 TOTAL	5900

TEMPORARY RUMBLE STRIPS

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	SPV.0090.03 TEMPORARY RUMBLE STRIP (ORANGE) IN ADVANCE OF LANE CLOSURE LF	REMARKS
3080-01-76	0010	2	USH 12/18 EB	540	WEST END OF PROJECT
			STAGE 2 SUBTOTALS	540	
3080-01-76	0010	3	USH 12/18 EB	648	WEST END OF PROJECT
			USH 12/18 WB	648	EAST END OF PROJECT
			STAGE 3 SUBTOTALS	1296	
			TOTAL 0010	1,836	

TEMPORARY PEDESTRIAN BARRICADE

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	REMARKS
3080-01-76	0010	2	IH 39/CTH N	20	NIGHTLY SETUPS ARE INCIDENTAL
			STAGE 2 SUBTOTALS	20	
			TOTAL 0010	20	
3080-01-76	0020	1B	MILLPOND RD	12	TWO LOCATIONS
			STAGE 1B SUBTOTALS	12	
3080-01-76	0020	2	MILLPOND RD	10	ONE LOCATION
			STAGE 2 SUBTOTALS	10	
			TOTAL 0020	22	
			PROJECT TOTAL	42	

PAVEMENT MARKING ITEMS

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH (SOLID WHITE) LF	646.1020 MARKING LINE EPOXY 4-INCH SOLID YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH (SKIP WHITE) LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH (SOLID WHITE) LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH SOLID YELLOW LF	646.1555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (SOLID WHITE) LF	646.1555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (SKIP WHITE)	646.3020 MARKING LINE EPOXY 8-INCH (SOLID WHITE) LF	646.3020 MARKING LINE EPOXY 8-INCH (SKIP WHITE) LF	646.3555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (SOLID WHITE) LF	646.3555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (SKIP WHITE) LF	646.5020 MARKING ARROW EPOXY (TYPE 2, WHITE) LF	646.5020 MARKING ARROW EPOXY (3R, WHITE) EACH
3080-01-76	0010	122+47'EB'	-	131+91'EB'	USH 12/18 EB AUX RAMP	-	-	-	939	-	-	-	-	-	-	294	-	-
		122+47'EB'	-	224+00'EB'	USH 12/18 EB MAINLINE	-	-	-	6440	10,153	2,538	48	-	-	1582	51	-	-
		129+94'WB	-	220+20'WB'	USH 12/18 WB MAINLINE	-	-	-	7202	9,025	2,256	48	-	-	876	51	-	-
		680+77'A'	-	695+12'A'	RAMP A	-	-	-	1465	933	-	-	251	27	338	-	1	1
		698+26'B'	-	724+67'B'	RAMP B	-	-	-	2338	1,059	-	-	-	-	472	-	-	-
		799+21'C'	-	813+70'C'	RAMP C	-	-	-	1476	943	-	-	248	27	338	-	1	1
		959+66'D'	-	996+03'D'	RAMP D	-	-	103	2342	1,050	-	-	-	-	488	-	-	-
		31+91'E'	-	44+33'E'	RAMP E	-	-	-	1242	291	-	-	-	-	722	-	-	-
		463+00'LD'	-	486+21'LD'	MAAHIC WAY	72	444	-	-	-	-	-	-	-	-	-	-	-
					SUBTOTALS	72	444	103	23444	23454	4794	96	499	54	4816	396	2	2
					TOTAL 0010		619			46,898		4,890		553		5,212		4
3080-01-76	0020	327+15'MP'	-	340+00'MP'	MILLPOND RD	2422	2,376	14	-	-	-	-	-	-	-	-	-	-
		340+00'MP'	-	348+74'MP'	MILLPOND RD	994	1,668	52	-	-	-	-	143	-	-	-	-	-
		348+74'MP'	-	394+07'MPE'	MILLPOND RD	9046	10,353	-	-	-	-	-	100	-	-	-	2	-
		44+33'E'	-	45+17'E'	RAMP 'E'	-	-	-	131	103	-	-	-	-	-	-	-	-
					GOLF COURSE ACCESS	-	-	-	-	-	-	-	-	-	-	-	-	-
					SUBTOTALS	12462	14,397	66	131	103	0	0	243	0	0	0	2	0
					TOTAL 0020		26,925			234		0		243		0		2
					PROJECT 3080-01-76 TOTAL		27544			47132		4890		796		5212		6

PAVEMENT MARKING ITEMS (CONTINUED)

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	646.6320 MARKING DOTTED EXTENSION EPOXY 18-INCH (SKIP WHITE) LF	646.6464 COLD WEATHER MARKING EPOXY 4-INCH (SOLID YELLOW) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (SOLID YELLOW) LF	646.7220 MARKING CHEVRON EPOXY 24-INCH (WHITE) LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) LF	646.8120 MARKING CURB EPOXY (YELLOW) LF	646.8220 MARKING ISLAND NOSE EPOXY (YELLOW) EACH	REMARKS
3080-01-76	0010	122+47'EB'	-	131+91'EB'	USH 12/18 EB AUX RAMP	-	-	-	-	-	-	-	
		122+47'EB'	-	224+00'EB'	USH 12/18 EB MAINLINE	-	-	-	-	-	-	-	
		129+94'WB	-	220+20'WB'	USH 12/18 WB MAINLINE	-	-	-	-	-	-	-	
		680+77'A'	-	695+12'A'	RAMP A	-	-	-	156	-	-	-	
		698+26'B'	-	724+67'B'	RAMP B	-	-	-	-	-	-	-	
		799+21'C'	-	813+70'C'	RAMP C	-	-	-	156	-	-	-	
		959+66'D'	-	996+03'D'	RAMP D	-	-	-	-	-	-	-	
		31+91'E'	-	44+33'E'	RAMP E	-	-	-	399	-	10	1	
		463+00'LD'	-	486+21'LD'	MAAHIC WAY	-	-	-	-	-	-	-	
					SUBTOTALS	0	0	0	711	0	10	1	
					TOTAL 0010	0	0	0	711	0	10	1	
3080-01-76	0020	327+15'MP'	-	340+00'MP'	MILLPOND RD	-	4,812	-	-	64	-	-	
		340+00'MP'	-	348+74'MP'	MILLPOND RD	64	-	89	-	-	20	2	
		348+74'MP'	-	394+07'MPE'	MILLPOND RD	-	-	42	-	-	-	-	
		44+33'E'	-	45+17'E'	RAMP 'E'	-	-	-	-	-	-	-	
					GOLF COURSE ACCESS	-	-	-	-	114	-	-	
					SUBTOTALS	64	4,812	131	0	178	20	2	
					TOTAL 0020	64	4,812	131	0	178	20	2	
					PROJECT 3080-01-76 TOTAL	64	4812	131	711	178	30	3	

TEMPORARY PAVEMENT MARKINGS AND MARKING REMOVALS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	646.9200 MARKING REMOVAL LINE WIDE LF	646.9300 MARKING REMOVAL SPECIAL MARKING EACH	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW) LF	649.0105 (WHITE) LF	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW) LF	649.0120 (WHITE) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW) LF	649.0150 (WHITE) LF	REMARKS
3080-01-76	0010	1B	344+40'M1B'	-	345+90'M1B'	MILLPOND RD	450	200	16	2	-	-	290	-	840	760	INTERSECTION RESTORATION & PHASE 1 & 2
						STAGE 1B SUBTOTALS	450	200	16	2	0	0	290	0	840	760	
3080-01-76	0010	2A	129+86'EB'	-	140+10'EB'	USH 12/18 EB	-	-	-	-	-	-	-	-	-	1,020	
			177+80'EB'	-	180+05'EB'	USH 12/18 EB	-	-	-	-	-	-	-	-	-	225	
			189+00'EB'	-	202+50'EB'	USH 12/18 EB	5,580	-	-	-	2,700	3100	-	-	220	440	
			194+00'WB'	-	206+50'WB'	USH 12/18 WB	5,130	-	-	-	2,500	2855	-	-	220	440	
						STAGE 2A SUBTOTALS	10710	0	0	0	5200	0	0	0	440	2125	
3080-01-76	0010	3/3A	168+16'EB'	-	174+76'EB'	USH 12/18 EB	-	-	-	-	-	-	-	-	-	660	
			206+08'EB'	-	229+40'EB'	USH 12/18 EB	550	-	-	-	1,385	1385	-	-	880	560	
			218+85'WB'	-	225+44'WB'	USH 12/18 WB	165	-	-	-	-	-	-	-	-	660	
						STAGE 3/3A SUBTOTALS	715	0	0	0	1385	1385	0	0	880	1880	
3080-01-76	0010	3B	208+82'EB'	-	226+65'EB'	USH 12/18 EB	1,685	-	-	-	800	800	-	-	330	330	
						STAGE 3B SUBTOTALS	1685	0	0	0	800	0	0	0	330	330	
3080-01-76	0010	4A	127+56'WB'	-	225+19'WB'	USH 12/18 WB	160	-	-	-	-	-	-	-	2,525	1,180	
			169+30'WB'	-	215+21'WB'	USH 12/18 WB RAMPS	365	-	-	-	-	-	-	-	705	2,010	
			115+81'EB'	-	188+34'EB'	USH 12/18 EB	130	-	-	-	-	-	-	-	2,510	700	
						NB TO EB ENT RAMP	-	-	-	-	-	-	-	-	-	300	
						SB TO EB ENT RAMP	-	-	-	-	-	-	-	-	-	300	
						STAGE 4A SUBTOTALS	655	0	0	0	0	0	0	0	5740	4490	
3080-01-76	0010	4B	115+85'EB'	-	122+45'EB'	USH 12/18 EB	-	-	-	-	-	-	-	-	-	660	
			219+75'WB'	-	226+35'WB'	USH 12/18 WB	-	-	-	-	-	-	-	-	-	660	
						STAGE 4B SUBTOTALS	0	0	0	0	0	0	0	0	0	1320	
						TOTAL 0010	14,215	200	16	2	8,770		290		19,135		
3080-01-76	0020	1B	324+68'M1B'	-	344+40'M1B'	TEMP MILLPOND RD	500	-	-	-	3,444	3406	-	-	500	220	
						STAGE 1B SUBTOTALS	500	0	0	0	3444	3406	0	0	500	220	
3080-01-76	0020	1C	325+48'M1C'	-	340+00'M1C'	TEMP MILLPOND RD	-	-	-	-	-	-	-	-	2,900	-	
			340+00'M1C'	-	344+46'M1C'	MILLPOND RD	90	-	-	-	-	-	900	900	-	-	RESTORE MARKINGS FOR WINTER SHUTDOWN
						STAGE 1C SUBTOTALS	90	0	0	0	0	0	900	900	2900	0	
3080-01-76	0020	4A	325+48'M4A'	-	344+46'M4A'	TEMP MILLPOND RD	600	-	-	-	2,900	-	900	-	-	-	
						STAGE 4A SUBTOTALS	600	0	0	0	2900	0	900	0	0	0	
						TOTAL 0020	1,190	0	0	0	9,750		2,700		3,620		
						PROJECT 3080-01-76 TOTAL	15405	200	16	2	18520		2990		22755		

CONTINUED ON NEXT PAGE

TEMPORARY PAVEMENT MARKINGS AND MARKING REMOVALS (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	649.0220 TEMPORARY MARKING LINE EPOXY 8-INCH (WHITE) LF	649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE) LF	649.0520 TEMPORARY MARKING ARROW EPOXY (WHITE) EACH	649.0820 TEMPORARY MARKING STOP LINE EPOXY 18-INCH (WHITE) LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	649.0960 TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH LF	REMARKS
3080-01-76	0010	1B	344+40'M1B'	-	345+90'M1B'	MILLPOND RD	200	-	2	44	74	-	INTERSECTION RESTORATION & PHASE 1 & 2
						STAGE 1B SUBTOTALS	200	0	2	44	74	0	
3080-01-76	0010	2A	129+86'EB'	-	140+10'EB'	USH 12/18 EB	-	260	-	-	-	-	
			177+80'EB'	-	180+05'EB'	USH 12/18 EB	-	-	-	-	-	40	
			189+00'EB'	-	202+50'EB'	USH 12/18 EB	-	-	-	-	-	-	
			194+00'WB'	-	206+50'WB'	USH 12/18 WB	-	-	-	-	-	-	
						STAGE 2A SUBTOTALS	0	260	0	0	0	40	
3080-01-76	0010	3/3A	168+16'EB'	-	174+76'EB'	USH 12/18 EB	-	-	-	-	-	-	
			206+08'EB'	-	229+40'EB'	USH 12/18 EB	-	-	-	-	-	-	
			218+85'WB'	-	225+44'WB'	USH 12/18 WB	-	-	-	-	-	-	
						STAGE 3/3A SUBTOTALS	0	0	0	0	0	0	
3080-01-76	0010	3B	208+82'EB'	-	226+65'EB'	USH 12/18 EB	-	-	-	-	-	-	
						STAGE 3B SUBTOTALS	0	0	0	0	0	0	
3080-01-76	0010	4A	127+56'WB'	-	225+19'WB'	USH 12/18 WB	-	-	-	-	-	-	
			169+30'WB'	-	215+21'WB'	USH 12/18 WB RAMPS	-	620	-	-	-	-	
			115+81'EB'	-	188+34'EB'	USH 12/18 EB	-	-	-	-	-	-	
						NB TO EB ENT RAMP	-	-	-	-	-	-	
						SB TO EB ENT RAMP	-	-	-	-	-	-	
						STAGE 4A SUBTOTALS	0	620	0	0	0	0	
3080-01-76	0010	4B	115+85'EB'	-	122+45'EB'	USH 12/18 EB	-	-	-	-	-	-	
			219+75'WB'	-	226+35'WB'	USH 12/18 WB	-	-	-	-	-	-	
						STAGE 4B SUBTOTALS	0	0	0	0	0	0	
						TOTAL 0010	200	880	2	44	74	40	
3080-01-76	0020	1B	324+70'M1B'	-	344+40'M1B'	TEMP MILLPOND RD	-	-	-	-	-	-	
						STAGE 1B SUBTOTALS	0	0	0	0	0	0	
3080-01-76	0020	1C	325+48'M1C'	-	344+46'M1C'	TEMP MILLPOND RD	-	-	-	-	-	-	
						MILLPOND RD	-	-	-	-	-	-	RESTORE MARKINGS FOR WINTER SHUTDOWN
						STAGE 1C SUBTOTALS	0	0	0	0	0	0	
3080-01-76	0020	4A	325+48'M4A'	-	344+46'M4A'	TEMP MILLPOND RD	-	-	-	-	-	-	
						STAGE 4A SUBTOTALS	0	0	0	0	0	0	
						TOTAL 0020	0	0	0	0	0	0	
						PROJECT 3080-01-76 TOTAL	200	880	2	44	74	40	

3

FTMS CONDUIT AND WIRE

PROJECT NUMBER	CATEGORY	ITEM ID	LOCATION	LINEAR DISTANCE	652.0125 * CONDUIT RIGID METALLIC 2-INCH LF	652.0225 * CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF	655.0625 * ELECTRICAL WIRE LIGHTING 6 AWG LF	671.0112 CONDUIT HDPE 1-DUCT 2-INCH LF	671.0212 CONDUIT HDPE DIRECTIONAL BORE 1-DUCT 2-INCH LF	674.0300 REMOVE CABLE LF	674.0400 REINSTALL CABLE LF	REMARKS
3080-01-76	0030	EXCVAB185		-	-	-	-	-	-	-	-	-	
		EXCV185 - CVAB195		250	-	-	250	-	250	-	-	-	
		CVAB195		-	-	-	-	-	-	-	-	-	
		CVAB195 - PBAB197		325	-	-	325	-	325	-	-	-	
		PBAB197 - MB-CCTV130188		10	10	-	-	30	-	-	-	-	
		PBAB197 - CCTV-13-0188		10	-	20	10	30	-	-	-	-	
		EXCV540NB - EXCVAB185		365	-	-	-	-	-	-	-	-	
		EXCV540NB - CVAB185S		365	-	-	-	-	-	-	-	-	
		EXCVAB185 - EXCV445LD		4090	-	-	-	-	-	-	4,090	-	
		CVA185S - QP473LD		1235	-	-	1,225	-	-	1,225	-	1,225	
		QP473LD - QP170WB		335	-	-	325	-	325	-	-	325	
		QP170WB - QP168WB		165	-	-	160	-	-	160	-	160	
		QP168WB - CV165WB		305	-	-	300	-	300	-	-	300	
		CV165WB - QP162WB		265	-	-	260	-	-	260	-	260	
		QP162WB - QP157WB		530	-	-	525	-	525	-	-	525	
		QP157WB - QP156WB		130	-	-	125	-	-	125	-	125	
		QP156WB - QP446LD		820	-	-	815	-	815	-	-	815	
		QP446LD - EXCV445LD		270	-	-	125	-	-	130	-	125	
		TOTAL 0030			10	20	4,445	60	2,540	1,900	4,090	3,860	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

FTMS - PULL BOXES AND VAULTS

PROJECT NUMBER	CATEGORY	ITEM ID	STATION	OFFSET	LOCATION	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH	* 653.0140 PULL BOXES STEEL 24X42-INCH EACH	673.0105 COMMUNICATION VAULT TYPE 1 EACH	673.0200 TRACER WIRE MARKER POSTS EACH	678.0200 FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH	SPV.0060.09 SPECIAL (09. REMOVING COMMUNICATION VAULT) EACH
3080-01-76	0030	EXCVAB185	-	-	USH 12/18	1	-	-	-	1	-	-
		CVAB195	195+57'WB'	375' LT	USH 12/18	-	-	1	-	-	-	-
		PBAB197	196+76'WB'	70' LT	USH 12/18	-	1	-	1	-	-	-
		CV165WB	165+07'WB'	52' LT	USH 12/18	-	-	1	1	-	-	-
		CVAB185S	485+90'LD'	30' LT	MAAHIC WAY	-	-	1	1	-	76	-
		EXCVAB185	-	-	USH 12/18	-	-	-	-	-	-	1
		TOTAL 0030				1	1	3	3	1	76	1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

3

TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE I

649.0760

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE I (WHITE) EACH	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE I (YELLOW) EACH
3080-01-76	0010	2/2A	139+79'EB'	-	140+09'EB'	USH 12/18 EB	11	-
			189+00'EB'	-	190+240'EB'	USH 12/18 EB	10	5
			205+37'WB'	-	20647'WB'	USH 12/18 WB	10	5
						STAGE 2/2A SUBTOTALS	31	10
3080-01-76	0010	3A	206+08'EB'	-	210+48'EB'	USH 12/18 EB	10	10
			224+99'EB'	-	229+36'EB'	USH 12/18 EB	3	10
						STAGE 3A SUBTOTALS	13	20
3080-01-76	0010	3B	208+82'EB'	-	210+48'EB'	USH 12/18 EB	7	7
			225+00'EB'	-	226+65'EB'	USH 12/18 EB	7	7
						STAGE 3B SUBTOTALS	14	14
						TOTAL 0010	102	

FTMS MISCELLANEOUS ITEMS

PROJECT NUMBER	CATEGORY	LOCATION	670.0100 FIELD SYSTEM INTEGRATOR LS	670.0200.02 ITS DOCUMENTATION (02. 3080-01-76) LS	678.0500.02 COMMUNICATION SYSTEM TESTING (02. 3080-01-76) LS
3080-01-76	0030	USH 12/18	1	1	1
		TOTAL 0030	1	1	1

3

FTMS - BASES AND POLES

PROJECT NUMBER	CATEGORY	ITEM ID	STATION	OFFSET	LOCATION	* 531.2036 DRILLING SHAFT 36-INCH LF	531.4050 FOUNDATION CAMERA POLE 50-FT EACH	656.0200.05 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) (05. CCTV130188) LS	656.0500.01 ELECTRICAL SERVICE BREAKER DISCONNECT BOX (LOCATION) (01. CCTV130188) LS	673.1225.S INSTALL POLE MOUNTED CABINET EACH	677.0150 INSTALL CAMERA POLE 50-FT EACH	677.0200 INSTALL CAMERA ASSEMBLY EACH	678.0400 FIBER OPTIC TERMINATION EACH	678.0600 INSTALL ETHERNET SWITCHES EACH	SPV.0060.03 SPECIAL (03. GROUND ROD) EACH
3080-01-76	0030	CCTV-13-0188	196+74'WB'	60' LT	USH 12/18	10	1	-	1	1	1	1	6	1	1
		MB-CCTV-13-0188	196+77'WB'	80' LT	USH 12/18	-	-	1	-	-	-	-	-	-	-
					TOTAL 0030	10	1	1	1	1	1	1	6	1	1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

LIGHTING - WIRE AND CONDUIT

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	FROM	TO	* 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0335 CONDUIT RIGID NONMETALLIC SCHEDULE 80 3-INCH LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	* 655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
3080-01-76	0010	3	RAMP 'E'	P10148	P10149	48	-	159	53	-
			RAMP 'E'	P10149	P10150	192	-	591	197	-
			RAMP 'E'	P10150	P10151	185	-	570	190	-
			RAMP 'A'	PB37	P10	7	-	-	36	-
			RAMP 'A'	PB37	PB38	165	-	-	724	-
			RAMP 'A'	PB38	P11	6	-	-	33	-
			RAMP 'C'	PB60	P24	6	-	-	11	22
			RAMP 'C'	PB60	PB61	167	-	-	183	549
			RAMP 'C'	PB61	P25	6	-	-	11	22
					TOTAL 0010	782	0	1,320	1,438	593
3080-01-76	0020	3	MILLPOND RD	DC	PB1	-	24	120	40	-
				PB1	PB2	-	45	183	61	-
				PB2	P10135	12	-	51	17	-
				PB2	P10136	163	-	504	168	-
				P10136	P10137	149	-	462	154	-
				P10137	P10138	151		468	156	
				P10138	PB3	66	-	246	82	-
				PB3	P10139	104	-	327	109	-
				P10139	P10140	166	-	513	171	-
				P10140	P10141	192	-	591	197	-
				P10141	P10142	184	-	567	189	-
				P10142	P10143	189	-	582	194	-
				P10143	P10144	174		537	179	
				P10144	PB4	130	-	438	146	-
				PB4	P10145	50	-	165	55	-
				P10145	PB5	77	-	279	93	-
				PB5	P10146	88	-	279	93	-
				P10146	PB6	76	-	176	47	-
				PB6	PB7	-	30	138	46	-
				PB7	PB8	-	34	150	50	-
				PB8	P10147	15	-	60	20	-
				P10147	PB9	49	-	195	65	-
				PB9	P10148	38	-	129	43	-
				PB9	PB10	-	80	288	96	-
				PB10	PB11	49		195	65	
				PB11	P10152	28	-	99	33	-
				PB11	PB12	-	54	-	-	-
				PB12	PB14	-	38	-	-	-
				PB6	PB13	75	-	273	91	-
				PB13	P10153	50	-	165	55	-
				P10153	PB14	65	-	243	81	-
				PB14	P10154	135		420	140	
				P10154	PB15	-	140	468	156	-
				PB15	P10155	74	-	237	79	-
				P10156	P10157	180	-	555	185	-
				P10157	P10158	183	-	564	188	-
				P10158	P10159	169	-	522	174	-
				P10159	P10160	183	-	564	188	-
				P10160	P10161	170		525	175	
				P10161	P10162	189	-	582	194	-
				P10162	P10163	180	-	555	185	-
				P10163	P10164	180	-	555	185	-
				P10164	P10165	183	-	564	188	-

LIGHTING - WIRE AND CONDUIT (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	FROM	TO	* 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0335 CONDUIT RIGID NONMETALLIC SCHEDULE 80 3-INCH LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	* 655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
3080-01-76	0020	3	MILLPOND RD	P10165	P10166	180	-	555	185	-
				P10166	P10167	185	-	570	190	-
				P10167	P10168	174	-	537	179	-
				P10168	P10169	189	-	582	194	-
				P10169	P10170	176		543	181	
				P10170	P10171	182	-	561	187	-
				P10171	P10172	178	-	549	183	-
				P10172	P10173	167	-	516	172	-
				P10173	P10174	188	-	579	193	-
				P10174	P10175	184	-	567	189	-
				P10175	P10176	180	-	555	185	-
				P10176	P10177	179	-	552	184	-
				P10177	P10178	200		615	205	
				P10178	P10179	165	-	510	170	-
				P10179	PB16	41	-	171	57	-
				PB16	DC	16		96	32	
					TOTAL 0020	6,700	445	22,542	7,514	0
					PROJECT 3080 01 76 TOTAL	7482	445	23862	8952	593

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

LIGHTING - PULL BOXES

PROJECT NUMBER	CATEGORY	STAGE	DESCRIPTION	STATION	OFFSET	LOCATION	* 653.0140 PULL BOXES STEEL 24X42- INCH EACH
3080-01-76	0010	3	PB37	694+50.82 'A'	2.5' FOC	RAMP 'A'	1
			PB38	692+90.89 'A'	2.5' FOC	RAMP 'A'	1
			PB60	799+94.81 'C'	2.5' FOC	RAMP 'C'	1
			PB61	801+55.78 'C'	2.5' FOC	RAMP 'C'	1
						TOTAL 0010	4
3080-01-76	0020	3	PB1	325+33.68 'MP'	22.2' LT	MILLPOND RD	1
			PB2	325+39.93 'MP'	2.5' FOC	MILLPOND RD	1
			PB3	330+59.58 'MP'	2.5' FOC	MILLPOND RD	1
			PB4	342+10.94 'MP'	2.5' FOC	MILLPOND RD	1
			PB5	343+22.37 'MP'	2.5' FOC	MILLPOND RD	1
			PB6	344+28.99 'MP'	41.8' RT	MILLPOND RD	1
			PB7	344+33.19 'MP'	7.1' RT	MILLPOND RD	1
			PB8	344+36.95 'MP'	2.5' FOC	MILLPOND RD	1
			PB9	45+12.25 'E'	2.5' FOC	MILLPOND RD	1
			PB10	345+36.09 'MP'	56.3' LT	MILLPOND RD	1
			PB11	345+80.05 'MP'	35.2' LT	MILLPOND RD	1
			PB12	345+98.31 'MP'	11.5' RT	MILLPOND RD	1
			PB13	344+93.58 'MP'	2.5' FOC	MILLPOND RD	1
			PB14	346+08.85 'MP'	2.5' FOC	MILLPOND RD	1
			PB15	348+76.57 'MP'	35.6' RT	MILLPOND RD	1
			PB16	393+41.85 'MP'	31.9' RT	MILLPOND RD	1
						TOTAL 0020	16
						PROJECT 3080 01 76 TOTAL	20

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

LIGHTING - ARMS AND LUMINAIRES

PROJECT NUMBER	CATEGORY	STAGE	POLE ID	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	657.0615 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 8-FT EACH	657.0715 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT EACH	659.1115 LUMINAIRES UTILITY LED A EACH	659.1120 LUMINAIRES UTILITY LED B EACH	REMARKS
3080-01-76	0010	3	P10149	150	-	1	-	1	ARM LENGTH EQUALS 15 FT
			P10150	150	-	1	-	1	ARM LENGTH EQUALS 15 FT
			P10151	150	-	1	-	1	ARM LENGTH EQUALS 15 FT
			P10	150	-	1	-	1	ARM LENGTH EQUALS 15 FT
			P11	150		1		1	ARM LENGTH EQUALS 15 FT
			P24	150	-	1	-	1	ARM LENGTH EQUALS 15 FT
			P25	150	-	1	-	1	ARM LENGTH EQUALS 15 FT
			TOTAL 0010	1,050	0	7	0	7	
3080-01-76	0020	3	P10135	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10136	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10137	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10138	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10139	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10140	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10141	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10142	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10143	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10144	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10145	129	1		1		ARM LENGTH EQUALS 8 FT
			P10146	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10147	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10148	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10152	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10153	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10154	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10155	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10156	129	1		1		ARM LENGTH EQUALS 8 FT
			P10157	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10158	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10159	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10160	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10161	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10162	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10163	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10164	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10165	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10166	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10167	129	1		1		ARM LENGTH EQUALS 8 FT
			P10168	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10169	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10170	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10171	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10172	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10173	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10174	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10175	129	1		1		ARM LENGTH EQUALS 8 FT
			P10176	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10177	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			P10178	129	1		1		ARM LENGTH EQUALS 8 FT
			P10179	129	1	-	1	-	ARM LENGTH EQUALS 8 FT
			TOTAL 0020	5,418	42	0	42	0	
			PROJECT 3080-01-76 TOTAL	6468	42	7	42	7	

LIGHTING - POLES

PROJECT NUMBER	CATEGORY	STAGE	POLE ID	654.0105 CONCRETE BASES TYPE 5 EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5-ALUMINUM EACH	SPV.0060.01 SPECIAL (01. CONSTRUCT LB-3 BASE) EACH	SPV.0060.02 SPECIAL (02. POLES 30-FOOT 11 GAUGE SIMPLEX) EACH
3080-01-76	0010	3	P10149	-	1	-	1	1
			P10150	-	1	-	1	1
			P10151	-	1	-	1	1
			P10	1	1	1	-	-
			P11	1	1	1	-	-
			P24	1	1	1	-	-
			P25	1	1	1	-	-
			TOTAL 0010	4	7	4	3	3
3080-01-76	0020	3	P10135	-	1	-	1	1
			P10136	-	1	-	1	1
			P10137	-	1	-	1	1
			P10138	-	1	-	1	1
			P10139	-	1	-	1	1
			P10140	-	1	-	1	1
			P10141	-	1	-	1	1
			P10142	-	1	-	1	1
			P10143	-	1	-	1	1
			P10144	-	1	-	1	1
			P10145	-	1	-	1	1
			P10146	-	1	-	1	1
			P10147	-	1	-	1	1
			P10148	-	1	-	1	1
			P10149	-	1	-	1	1
			P10152	-	1	-	1	1
			P10153	-	1	-	1	1
			P10154	-	1	-	1	1
			P10155	-	1	-	1	1
			P10156	-	1	-	1	1
			P10157	-	1	-	1	1
			P10158	-	1	-	1	1
			P10159	-	1	-	1	1
			P10160	-	1	-	1	1
			P10161	-	1	-	1	1
			P10162	-	1	-	1	1
			P10163	-	1	-	1	1
			P10164	-	1	-	1	1
			P10165	-	1	-	1	1
			P10166	-	1	-	1	1
			P10167	-	1	-	1	1
			P10168	-	1	-	1	1
			P10169	-	1	-	1	1
			P10170	-	1	-	1	1
			P10171	-	1	-	1	1
			P10172	-	1	-	1	1
			P10173	-	1	-	1	1
			P10174	-	1	-	1	1
			P10175	-	1	-	1	1
			P10176	-	1	-	1	1
			P10177	-	1	-	1	1
			P10178	-	1	-	1	1
			P10179	-	1	-	1	1
			TOTAL 0020	0	43	0	43	43
			PROJECT 3080-01-76 TOTAL	4	50	4	46	46

SAWING ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION		TO STATION	LOCATION	* 690.0150 SAWING ASPHALT LF	* 690.0250 SAWING CONCRETE LF	REMARKS
3080-01-76	0010	1A	344+70'M1B'	-	345+94'M1B'	MILLPOND RD	-	6	
			536+35 'LL'	-	536+35 '_L'	LUDS LANE	22	-	
						STAGE 1A SUBTOTALS	22	6	
3080 01 76	0010	1B	345+25'M1B'			MILLPOND RD	140		STORM SEWER CROSSING
						STAGE 1B SUBTOTALS	140	0	
3080-01-76	0010	2	702+25'8'			RAMP 'B'	20	-	DRIVEWAY
			799+82'C'		808+20'C'	RAMP 'C'	858		COPART PARKING LOT
			146-95'EB'			USH 12/18 EB	6	-	
			179-00'EB'			USH 12/18 EB	6	-	
			198-82'EB'	-	200+18'EB'	USH 12/18 EB	-	272	REMOVE MEDIAN ACCESS
			437-50'ID'			MAAHIC WAY	24	-	
			444-95'LD'	-	445+37'LD'	MAAHIC WAY	80	10	WATER MAIN INSTALLATION
						STAGE 2 SUBTOTALS	994	282	
3080-01-76	0010	3/3A	10+80'LA'			LANDFILL DR	78	-	
			213+85'W3'			USH 12/18 WB	6		
			215-48'EB'	-	224+00'EB'	USH 12/18 EB	858	24	
			179-61'EB'	-	188+63'EB'	USH 12/18 EB	-	872	CTH AB SOUTH ACCESS
			184+50'W3'	-	193+43'W3'	USH 12/18 WB	-	863	CTH AB NORTH ACCESS
						STAGE 3/3A SUBTOTALS	942	1759	
3080-01-76	0010	3B	215-48'EB'	-	224+00'EB'	USH 12/18 EB	6	28	
						STAGE 3B SUBTOTALS	6	28	
3080-01-76	0010	4A	118-59'EB'	-	124+86'EB'	USH 12/18 EB	5	240	
			143+59'W3'	-	150+50'WB	USH 12/18 WB	-	691	
			161+34'W3'		164+60'W3'	USH 12/18 WB		326	
						STAGE 4A SUBTOTALS	5	1257	
3080-01-76	0010	4B	129+95'W3'	-	151+54'W3'	USH 12/18 WB	3	2159	
			140-00'EB'	-	146+13'EB'	USH 12/18 EB	-	613	
			159-48'EB'	-	164+05'EB'	USH 12/18 EB	-	457	
			162+33'W3'	-	163+57'W3'	USH 12/18 WB	-	124	
			178-68'EB'	-	191+59'EB'	USH 12/18 EB	-	1261	
			181+87'W3'		194+37'W3'	USH 12/18 WB		1220	
						STAGE 4B SUBTOTALS	3	5834	
						TOTAL 0010	2,112	9,166	

LIGHTING - MISCELLANEOUS ITEMS

PROJECT NUMBER	CATEGORY	LOCATION	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) (01. 325+31.89 'MP') LS	656.0200.02 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) (02. 393+42.75 'MP') LS	659.2230 LIGHTING CONTROL CABINETS 240/480 30-INCH EACH	SPV.0060.33 SPECIAL (33. TEMPORARY LIGHTING SYSTEM MILLPOND ROAD INTERSECTION) EACH
3080-01-76	0020	L-MP1-ST	1	1	-	1	-
		L-MP2-ST	1	-	1	1	-
		PROJECT	-	-	-	-	1
		TOTAL 0020	2	1	1	2	1

SAWING ITEMS (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	STATION		TO STATION	LOCATION	* 690.0150 SAWING ASPHALT LF	* 690.0250 SAWING CONCRETE LF	REMARKS
3080-01-76	0020	1A	325+20'M1B'	-	327-15'M1B'	MILLPOND RD	96	3	
			329+34'M1B'		331-67'M1B'	MILLPOND RD	450		SANITARY AND CULVERT INSTALL
						STAGE 1A SUBTOTALS	546	3	
3080-01-76	0020	1B	327+15'MP'	-	330+95'MP'	MILLPOND RD	414	3	
			11+00 LR'			LONG DRIVE (SOUTH)	28		
			340+25'MP'			MILLPOND RD	24	-	
			340+89'MP'			MILLPOND RD	48	-	PIPE INSTALLATION
			341+95'MP'			MILLPOND RD	92	-	PIPE INSTALLATION
			344+45'MP'			MILLPOND RD	110	6	SANITARY/WATER CROSSING
						STAGE 1B SUBTOTALS	716	9	
3080-01-76	0020	1C	323+96'MP'	-	324+31'MP'	MILLPOND RD. LT	44	11	
			323+95'MP'		324+32'MP'	MILLPOND RD. RT	35	11	
			326+14'MP'	-	327+15'MP'	MILLPOND RD	111	-	
						STAGE 1C SUBTOTALS	190	22	
3080-01-76	0020	2	348+27'MP'			RT	96	5	Y-GC ACCESS
						STAGE 2A SUBTOTALS	96	5	
3080-01-76	0020	4A							
						STAGE 4A SUBTOTALS	0	0	
3080-01-76	0020	4B							
						STAGE 4B SUBTOTALS	0	0	
						TOTAL 0020	1,548	39	
						PROJECT 3080 01 76 TOTAL	3660	9205	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
3080-01-25
MADISON - CAMBRIDGE
CTH AB OVERPASS
USH 12/18
DANE COUNTY

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING — TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN — SIGN
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	○
TELEPHONE POLE	■	⌀
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	■	⌀

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)

PARCEL NUMBER (25) UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

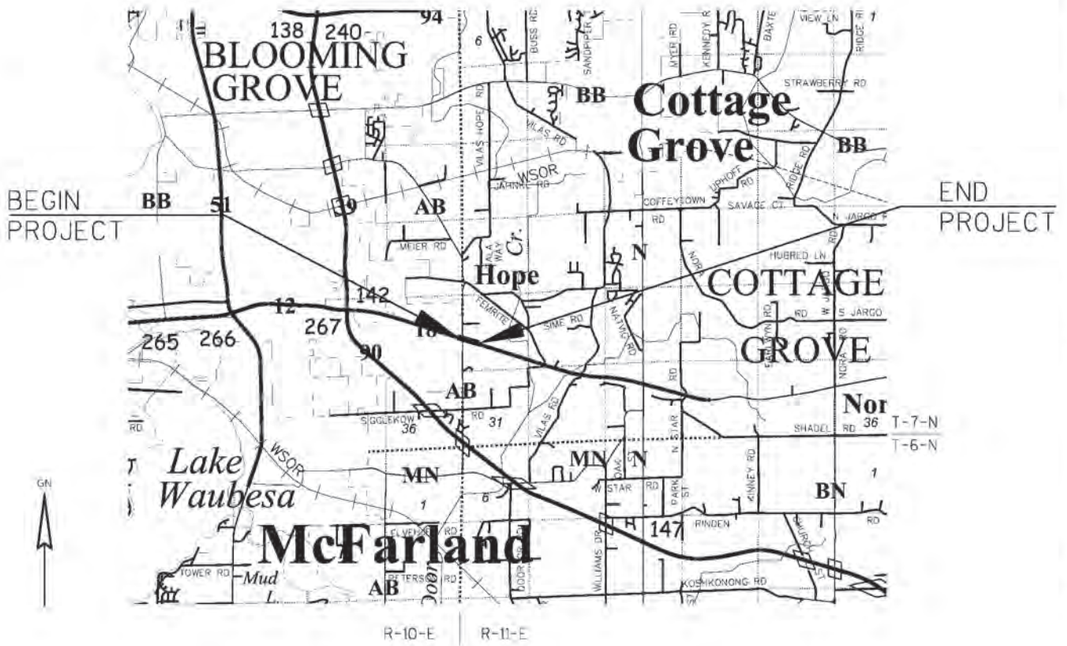
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	TELEPHONE PEDESTAL	TP
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	GV	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V
HIGHWAY EASEMENT	HE	LIMITED COMMON ELEMENT	LCE
IDENTIFICATION	ID	COMMON ELEMENT	CE
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

W — WATER
G — GAS
T — TELEPHONE
OH — OVERHEAD TRANSMISSION LINES
E — ELECTRIC
TV — CABLE TELEVISION
FO — FIBER OPTIC
SAN — SANITARY SEWER
SS — STORM SEWER



LAYOUT SCALE 0 1 MI.

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 3080-01-25.

NOTES:

POSITIONS SHOWN ON THIS MAP ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY, NAD 83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON AND THE DANE COUNTY DEPARTMENT OF PUBLIC WORKS HIGHWAY AND TRANSPORTATION.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE TPP DETAIL PAGES.

PROJECT NUMBER 3080-01-25 -4, 01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME: V:\TRANS-MD\410821 MEIER ROAD\C3D\SHEETSPLAN\EARY AQUISITION TPP\COVERPAGE.DWG
LAYOUT NAME: TPP Title 34x22
PLOT DATE: 12/18/2019 4:11 PM PLOT BY: LARSON, BENJAMIN PLOT NAME:
APPRAISAL PLAT DATE: 07/30/2020
3080-01-25-4.01

TRANSPORTATION PROJECT PLAT NO: 3080-01-25 - 4.01 AMENDMENT NO: 2

AMENDS PARCEL 1 OF TRANSPORTATION PROJECT PLAT NO: 3080-01-25 - 4.01 RECORDED AS DOCUMENT NO: 5621326.
PART OF DOOR CREEK BUSINESS PARK CONDOMINIUM, V.6, 157A CONDO PLATS, DOC. 4649546, LOCATED IN THE NORTH 1/2 OF THE FRACTIONAL SOUTHWEST 1/4 AND THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4, PART OF LOT 1 AND LOT 2 OF CSM 5392, V.24 P.298-299, DOC. 2053772 LOCATED IN THE SOUTH 1/2 OF THE FRACTIONAL NORTHWEST 1/4 AND THE NORTH 1/2 OF THE FRACTIONAL SOUTHWEST 1/4 , AND PART OF THE SOUTH 1/2 OF THE FRACTIONAL NORTHWEST 1/4 AND THE NORTH 1/2 OF THE FRACTIONAL SOUTHWEST 1/4, ALL IN SECTION 30, T7N, R11E, TOWN OF COTTAGE GROVE, DANE COUNTY, WISCONSIN.

RELOCATION ORDER: USH 12/18, (MADISON - CAMBRIDGE)
CTH AB OVERPASS, DANE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS MAP ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY, NAD 83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

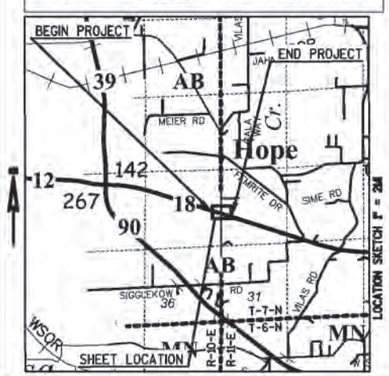
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 12/18 ESTABLISHED FROM PREVIOUS PROJECTS 3080-00-21, F04-2(31) AND DOOR CREEK BUSINESS PARK CONDOMINIUM PLAT
EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH AB ESTABLISHED FROM PREVIOUS PROJECTS 3080-00-21, F04-2(31), CSM 5392, AND CSM 9029.
EXISTING ACCESS CONTROL ALONG USH 12/18 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT F04-2(31)
EXISTING ACCESS CONTROL ALONG CTH AB HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT F04-2(31) AND CSM 5392

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON AND THE DANE COUNTY DEPARTMENT OF PUBLIC WORKS HIGHWAY AND TRANSPORTATION.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING IRON PIPES

POINT NAME	Y	X	DESCRIPTION
IP183	469959.959	859857.818	3/4" REBAR
IP184	469978.716	859799.770	3/4" REBAR
IP185	469668.277	859449.705	3/4" REBAR
IP186	469878.501	859201.142	3/4" REBAR
IP187	469807.369	859039.388	3/4" REBAR
IP188	469827.861	858976.684	3/4" REBAR
IP189	470026.458	858897.575	3/4" REBAR
IP190	470298.218	858008.027	3/4" REBAR
IP191	470222.675	857903.110	3/4" REBAR
IP192	470232.986	857837.303	3/4" REBAR
IP195	470774.950	857841.205	3/4" REBAR
IP196	470543.307	858058.581	3/4" REBAR
IP197	470751.690	857905.846	3/4" REBAR



R.R. SPIKE FOUND
Y = 468183.324
X = 857854.822

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT NO. 5621326

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
50	FRONTIER COMMUNICATIONS OF WI LLC	RELEASE OF RIGHTS
52	DANE COUNTY INFORMATION SERVICES	RELEASE OF RIGHTS

(50) FRONTIER COMMUNICATIONS OF WI LLC
VOL. 455 PG. 279-280 DOC. 1371523 - PARCEL 1
VOL. 451 PG. 267-268 DOC. 1369997 - PARCEL 2

(52) DANE COUNTY INFORMATION SERVICES
NO EASEMENT OF RECORD - PARCEL 1

KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
5770358
09/14/2021 09:35 AM
Trans Fee:
Exempt #:
Rec. Fee: 25.00
Pages:
"Above recording information verifies that this document has been electronically recorded and returned to the submitter."

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3080-01-25-4.01
AMENDMENT NO: 2

SPIKE WITH WASHER FOUND
Y = 473471.239
X = 857891.855

S00°24'05"W, 2258.42'
MON. TO TRAV. PT.

LOT 1
CSM 5392
V.24, P.298-299
DOC.2053772

PLAT OF SURVEY
2013-00560

S89°35'55"E, 33.12'
TRAV. PT. TO R/W

1 1/4" REBAR FOUND
Y = 470831.826
X = 857873.367

N00°24'05"E, 381.05'
MON. TO TRAV. PT.

S 1/2 – FRAC NW 1/4

N86°32'27"E, 75.21'
R/W TO RL

N86°32'27"E, 82.97'
RL TO R/W

S86°32'27"W, 660.24'
MON TO R/W

1 1/4" REBAR FOUND
Y = 470948.467
X = 859802.995

MATCH LINE TPP NO: 3080-01-25-4.02

S86°32'54"W, 267.12'
MON TO MON

BRONZE CAPPED PIPE FOUND
Y = 471109.340
X = 862470.272

N00°24'10"E, 397.94'
TRAV. PT. TO MON.

1/4 LINE

PLAT OF SURVEY
2013-00560
PLAT OF SURVEY
90054

TOWN

LOT 2
CSM 5392
V.24, P.298-299
DOC.2053772

N86°32'27"E, 59.94'
MON. TO R/W

UNPLATTED LANDS

1 TLE - GRADING
L38 AC.

STA. 528+29.59'AB'

SEPTIC FIELD

PT: 525+73.94'AB'

SEPTIC FIELD

2 TLE - GRADING
0.09 AC.

R=N00°51'14"E

LCE-20

LCE-19

PI: 525+31.11'AB'

PC: 524+88.26'AB'

LCE-18

LCE-17

LCE-16

PI STA = 525'AB'+31.11
Y = 470605.155
X = 859056.708
DELTA = 3°17'40" LT
D = 3°50'43"
T = 42.85'
L = 85.68'
R = 1490.00'
PC STA = 524'AB'+88.26
Y = 470562.418
X = 859053.608
PT STA = 525'AB'+73.94
Y = 470647.999
X = 859057.347

Curve Table				
Curve #	LCB	LCH	Length	Radius
C1	S10° 24' 08"E	62.15'	62.28'	284.98'
C2	S49° 36' 50"E	310.01'	327.78'	284.98'

R/W COURSE TABLE		
POINT NO.	BEARING	DISTANCE
101-102	S08° 56' 15"E	444.01'
102-103	S56° 33' 06"E	702.48'
103-104	S56° 33' 06"E	245.21'
105-106	S89° 37' 44"E	4.33'
106-107	S00° 08' 49"W	37.76'
107-108	S01° 46' 00"E	278.40'
108-109	SEE C1 IN CURVE TABLE	
109-110	SEE C2 IN CURVE TABLE	
110-111	N86° 50' 43"E	814.71'
111-100	N00° 51' 14"E	219.70'
109-100	N86° 32' 27"E	1054.80'

CTH AB
MADISON

3585'BE'

R PROJECT
3080-00-21

3590'BE'

USH 12/18

PI: 523+89.50'AB'
Y = 470463.917
X = 859046.464
DELTA = 27°20'38" LT

R=N04°08'54"E

R=N31°29'32"E

PI: 521+50.55'AB'
Y = 470260.161
X = 858921.640

LCE-1
LCE-2
LCE-3
LCE-4
LCE-5
LCE-6
LCE-7
LCE-8

DOOR CREEK BUSINESS PARK CONDOMINIUM V.6,157A CONDO PLATS DOC.4649546

FUTURE STRUCTURE

3594+92.01'BE'
519+91.44'AB'

3595'BE'

525'AB'

R=N17°57'44"E

N72°01'28"W, 1053.42'
RL TO TRAV. PT.

LOT 1
CSM 9029
V.50, P.243-245
DOC.3018373

N72°01'28"W, 972.76'
TRAV. PT. TO RL

S0°15'31"W, 274.22'
R/W TO RL

N72°01'28"W, 152.87'
RL TO TRAV. PNT.

S17°58'32"W, 195.80'
R/W TO RL

3600'BE'

R=S72° 01' 28"E

3605'BE'

PI: 518+68.00'AB'
Y = 469991.380
X = 858834.505

LOT 2
CSM 8289
V.44, P.325-328
DOC.2783721

N01°15'31"E, 1499.03'
MON. TO RL

ALUMINUM MONUMENT FOUND
Y = 468309.584
X = 859791.079

STA. 3604+64.77'BE'

S05°13'34"W, 865.55'
MON TO R/W

NW-SE

GN

0 100 200
SCALE, FEET

N00°24'10"E, 2240.83'
MON. TO RL

STA. 3584+38.59'BE'
CTH AB

CITY OF MADISON

SECTION LINE

1/16 LINE

N 1/2 – FRAC SW 1/4

COTTAGE GROVE

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T153	3583+33.37 'BE'	560.53' LT
T154	3583+63.82 'BE'	478.93' LT
T155	3585+34.22 'BE'	533.75' LT
T156	3586+26.41 'BE'	307.36' LT
T157	3588+48.68 'BE'	384.91' LT
T158	527+96.29 'AB'	89.55' RT
T159	528+03.48 'AB'	185.00' RT
T161	526+45.52 'AB'	75.00' LT
T162	526+00.61 'AB'	218.12' LT
T163	3589+96.24 'BE'	418.44' LT
T165	3583+09.89 'BE'	552.97' LT

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
103	3603+81.32 'BE'	261.21' LT
104	3606+17.64 'BE'	195.80' LT
105	3582+34.97 'BE'	752.64' LT
106	3582+39.10 'BE'	753.95' LT
107	3582+50.66 'BE'	718.01' LT
108	3583+44.70 'BE'	455.97' RT
109	3583+74.25 'BE'	401.28' RT
100	528+23.93 'AB'	75.00' LT
101	528+35.83 'AB'	82.73' RT
102	524+07.63 'AB'	165.61' RT
110	3586+60.84 'BE'	283.09' LT
111	526+04.24 'AB'	75.00' LT
208	528+43.54 'AB'	185.00' RT

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
1	DANE COUNTY	FEE/TLE	0.47	0.10	0.57	1.38	---
2	COPART OF CONNECTICUT, INC.	FEE/AR/TLE	11.79	---	11.79	0.09	---

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

WISCONSIN
BENJAMIN J LARSON
S-3006
EAST TROY
WISCONSIN
LAND SURVEYOR

I, BENJAMIN J LARSON, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Benjamin J Larson — 05/15/2021
BENJAMIN J LARSON — DATE
REGISTRATION NUMBER: S-3006

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHWEST REGION.

Cory Schlagel — 9/8/2021
CORY SCHLAGEL — DATE

AYRES ASSOCIATES

FILE NAME: C:\USERS\LARSONB\DESKTOP\CTH AB, 1218\EARY ACQUISITION TPP\040101_RP_A2.DWG
APPRAISAL PLAT DATE: 09/08/2020
PLOT DATE: 9/9/2021 9:48 AM
PLOT BY: LARSON, BENJAMIN
PLOT NAME:

3080-01-25-4.01 AMENDMENT NO: 2

TRANSPORTATION PROJECT PLAT NO: 3080-01-25 - 4.02

PART OF LOT 2 OF CSM 5392, V.24, P.298-299, DOC 2053772 LOCATED IN THE SOUTH 1/2 OF THE FRACTIONAL NORTHWEST 1/4 AND THAT PART OF THE SOUTH 1/2 OF THE FRACTIONAL NORTHWEST 1/4, ALL IN SECTION 30, T7N, R11E, TOWN OF COTTAGE GROVE, DANE COUNTY, WISCONSIN.

RELOCATION ORDER: USH 12/18, (MADISON - CAMBRIDGE)
CTH AB OVERPASS, DANE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS MAP IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS MAP ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY, NAD 83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR LUDS LANE ESTABLISHED FROM CSM 11164, AND CSM 5392.
EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH AB ESTABLISHED FROM CSM 5392 AND CSM 11164

EXISTING ACCESS CONTROL ALONG CTH AB HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT 3080-00-21, CSM 11164, CSM 5392, CSM 7090, & COUNTY TRUNK HIGHWAY ACCESS CONTROL PROVISIONS IN CHAPTER 79 OF THE DANE COUNTY ORDINANCE.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON AND THE DANE COUNTY DEPARTMENT OF PUBLIC WORKS HIGHWAY AND TRANSPORTATION.

EXISTING IRON PIPES			
POINT NAME	Y	X	DESCRIPTION
IP201	471574.400	858996.338	3/4" REBAR
IP202	471508.230	858995.159	1" REBAR
IP250	471896.184	859000.941	3/4" REBAR
IP251	471863.476	858451.473	3/4" REBAR
IP252	471832.927	857940.347	3/4" REBAR
IP253	471831.742	857920.285	3/4" REBAR
IP254	471548.929	858448.319	3/4" REBAR
IP255	471527.809	857994.968	3/4" REBAR

R/W COURSE TABLE		
POINT NO.	BEARING	DISTANCE
200-IP201	N00° 51' 14"E	509.21'
IP201-IP202	N01° 01' 15"E	66.18'
	(S00° 50' 56"W	66.00')
203-204	S00° 30' 33"E	82.89'
204-205	S24° 49' 15"E	130.44'
205-206	S00° 51' 14"W	282.08'
206-207	S29° 56' 15"E	133.81'
207-208	S00° 51' 14"W	66.49'

UTILITY INTERESTS REQUIRED		
UTILITYL NUMBER	OWNER(S)	INTEREST REQUIRED
50	FRONTIER COMMUNICATIONS OF WI LLC	RELEASE OF RIGHTS
51	ALLIANT ENERGY	RELEASE OF RIGHTS

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

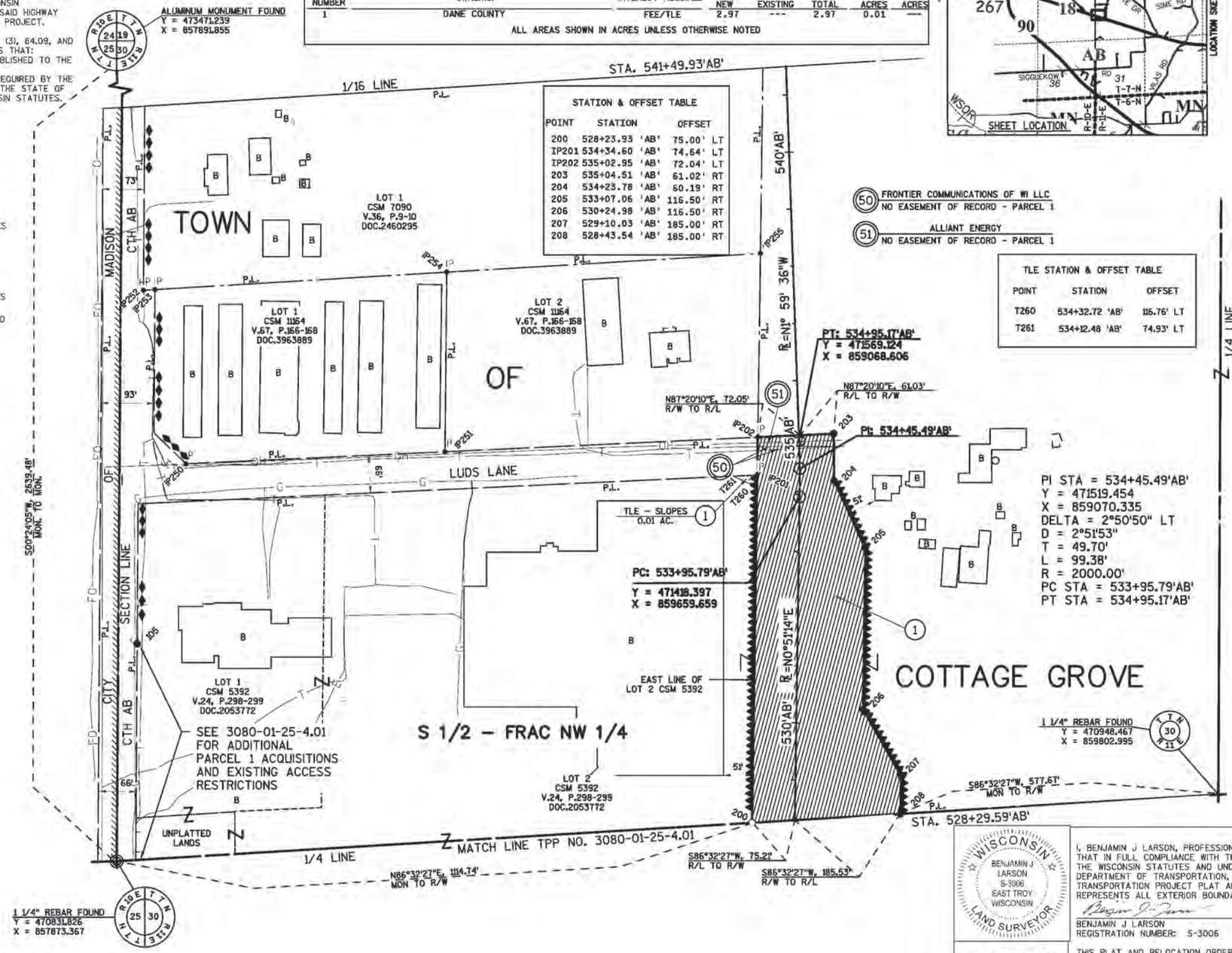
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
1	DANE COUNTY	FEE/TLE	2.97	---	2.97	0.01	---

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
5621275
08/14/2020 11:57 AM
Trans Fee:
Exempt #:
Rec. Fee: 25.00
Pages:
"The above recording information verifies that this document has been electronically recorded and returned to the submitter."

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3080-01-25-4.02
AMENDMENT NO:___



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT NO. 5621326

I, BENJAMIN J LARSON, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

07/30/2020
BENJAMIN J LARSON — DATE
REGISTRATION NUMBER: S-3006

WISCONSIN BENJAMIN J LARSON S-3006 EAST TROY WISCONSIN LAND SURVEYOR

AYRES ASSOCIATES

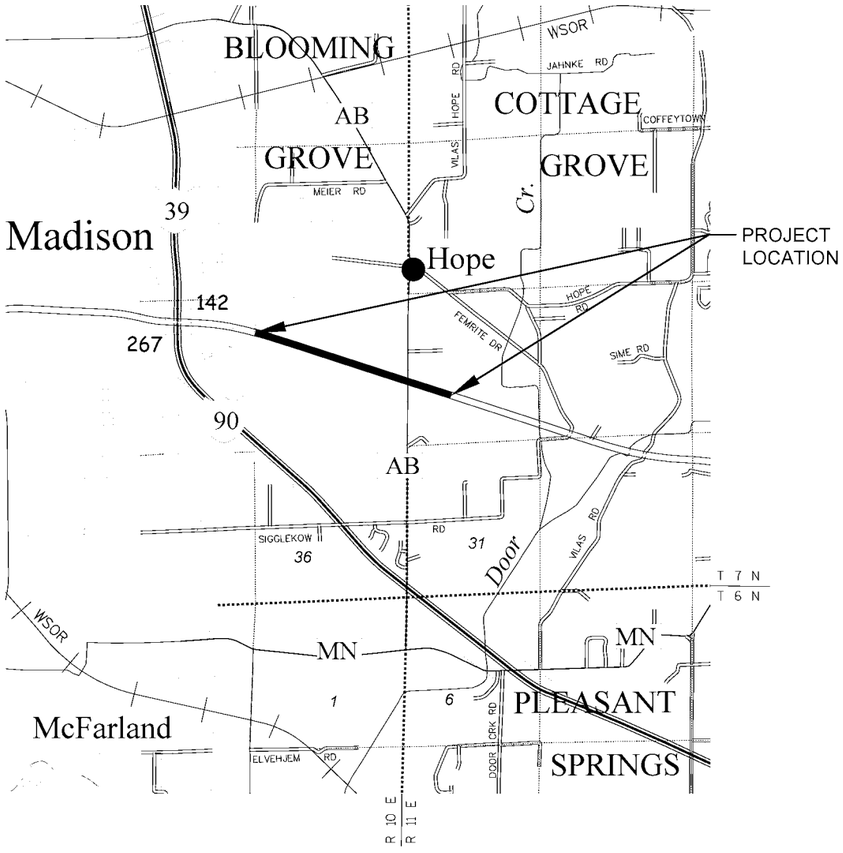
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHWEST REGION.

8/11/2020
CORY SCHLAGEL — DATE

FILE NAME: C:\USERS\LARSONB\DESKTOP\CTH AB, 1218\EARY AQUISITION TPP\040102_RP.DWG
APPRAISAL PLAT DATE: 07/30/2020
PLOT DATE: 8/12/2020 9:59 PM PLOT BY: LARSON, BENJAMIN PLOT NAME:

COMPOSITE DRAWING, ORIGINAL IS ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
3080-01-26
MADISON - CAMBRIDGE
CTH AB INTERCHANGE
USH 12
DANE COUNTY



GN

LAYOUT
SCALE 0 0.5 MI.

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
TO BE REMOVED
BRIDGE
CULVERT

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER 25
UTILITY NUMBER 40
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT OF WAY	R/W
COUNTY	CO	SECTION	SEC
COUNTY TRUNK HIGHWAY	CTH	SEPTIC VENT	SEPV
DISTANCE	DIST	SQUARE FEET	SF
CORNER	COR	STATE TRUNK HIGHWAY	STH
DOCUMENT NUMBER	DOC	STATION	STA
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ /DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

W WATER
G GAS
T TELEPHONE
OH OVERHEAD TRANSMISSION LINES
E ELECTRIC
TV CABLE TELEVISION
FO FIBER OPTIC
SAN SANITARY SEWER
SS STORM SEWER

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 3080-01-26

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY REFERENCE SYSTEM COORDINATES (WISCORS), DANE COUNTY, NAD83(2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON AND THE DANE COUNTY DEPARTMENT OF PUBLIC WORKS HIGHWAY AND TRANSPORTATION.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE TPP DETAIL PAGES.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE TPP DETAIL PAGES.

4

PROJECT NUMBER 3080-01-26 -4. 01
SHEET 2 OF 3
AMENDMENT NO:
559

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\TPP\040100-RP.DWG
LAYOUT NAME: 01
PLOT DATE : 7/26/2021 12:12 PM
PLOT BY : DREW NELSON
PLOT NAME : _____
APPRAISAL PLAT DATE : 07/13/2021

COMPOSITE DRAWING, ORIGINAL IS ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 3080-01-26 - 4.01 AMENDMENT NO. 1

AMENDMENT REMOVES FEE AND REVISES TLE FOR PARCEL 3, AND REMOVES UTILITY NUMBER 201 OF TPP 3080-01-26-4.01 RECORDED AS DOCUMENT NUMBER 5754659

THAT PART OF LOT 1 OF CSM 4425 LOCATED IN PART OF THE NE1/4 OF THE NE1/4, PART OF LOT 2 OF CSM 772, BEING PART OF LOT 8 OF ASSESSOR'S PLAT NO. 10 AND PART OF LOT 8 OF ASSESSOR'S PLAT NO. 10, ALSO PART OF LOT 2 OF CSM 4425 AND PART OF LOT 3 OF CSM 4425, BEING PART OF LOT 5 OF ASSESSOR'S PLAT NO. 10 LOCATED IN PART OF THE SE1/4 OF THE NE1/4, ALL IN SECTION 26, TOWNSHIP 7 NORTH, RANGE 10 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER: USH 12, MADISON - CAMBRIDGE (CTH AB INTERCHANGE), DANE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY, NAD83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"X24" IRON REBARS) UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE FOR USH 12/18: R/W PLAT 3080-00-21, R/W PLAT F04-2(31), ASSESSOR'S PLAT NO. 10, CSM 4425, AND EXISTING CENTERLINE.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE FOR MILLPOND RD: R/W PLAT 3080-00-21, ASSESSOR'S PLAT NO. 10, CSM 772, CSM 4425 AND EXISTING CENTERLINE.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE FOR LONG DR: R/W PLAT 3080-00-21, ASSESSOR'S PLAT NO. 10, CSM 4425 AND EXISTING CENTERLINE.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE FOR SAVANNAH RD: ASSESSOR'S PLAT NO. 10, CSM 772 AND EXISTING CENTERLINE.

EXISTING ACCESS CONTROL ALONG USH 12/18 HAS BEEN ESTABLISHED FROM R/W PLAT 3080-00-21 AND R/W PLAT F04-2(31).

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON AND THE DANE COUNTY DEPARTMENT OF PUBLIC WORKS HIGHWAY AND TRANSPORTATION.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTERESTS REQUIRED	R/W SF REQUIRED NEW	EXISTING	TOTAL	TLE SF
1	LEANNE H. STARR, TRUSTEE OF THE LEANNE H. STARR SURVIVORS TRUST CREATED BY THE LEANNE AND GARY STARR REVOCABLE TRUST DATED JANUARY 1,2001	FEE/TLE	1724	---	1724	3528
2	CITY OF MADISON (PARKS YAHARA HILLS GOLF COURSE)	FEE/TLE	3	---	3	2938
3	WISCONSIN WINNEBAGO TRIBE	TLE	---	---	---	7265
4	F&B PROPERTIES, LLC	TLE	---	---	---	479
6	MILLPOND CORPORATION	TLE	---	---	---	4022

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	FRONTIER COMMUNICATIONS OF WI LLC (COMMUNICATION)	RELEASE OF RIGHTS
203	MADISON GAS AND ELECTRIC COMPANY (ELECTRIC)	RELEASE OF RIGHTS
204	KOCH PIPELINES CO. (GAS)	RELEASE OF RIGHTS
205	MADISON METROPOLITAN SEWERAGE DISTRICT (SANITARY)	RELEASE OF RIGHTS

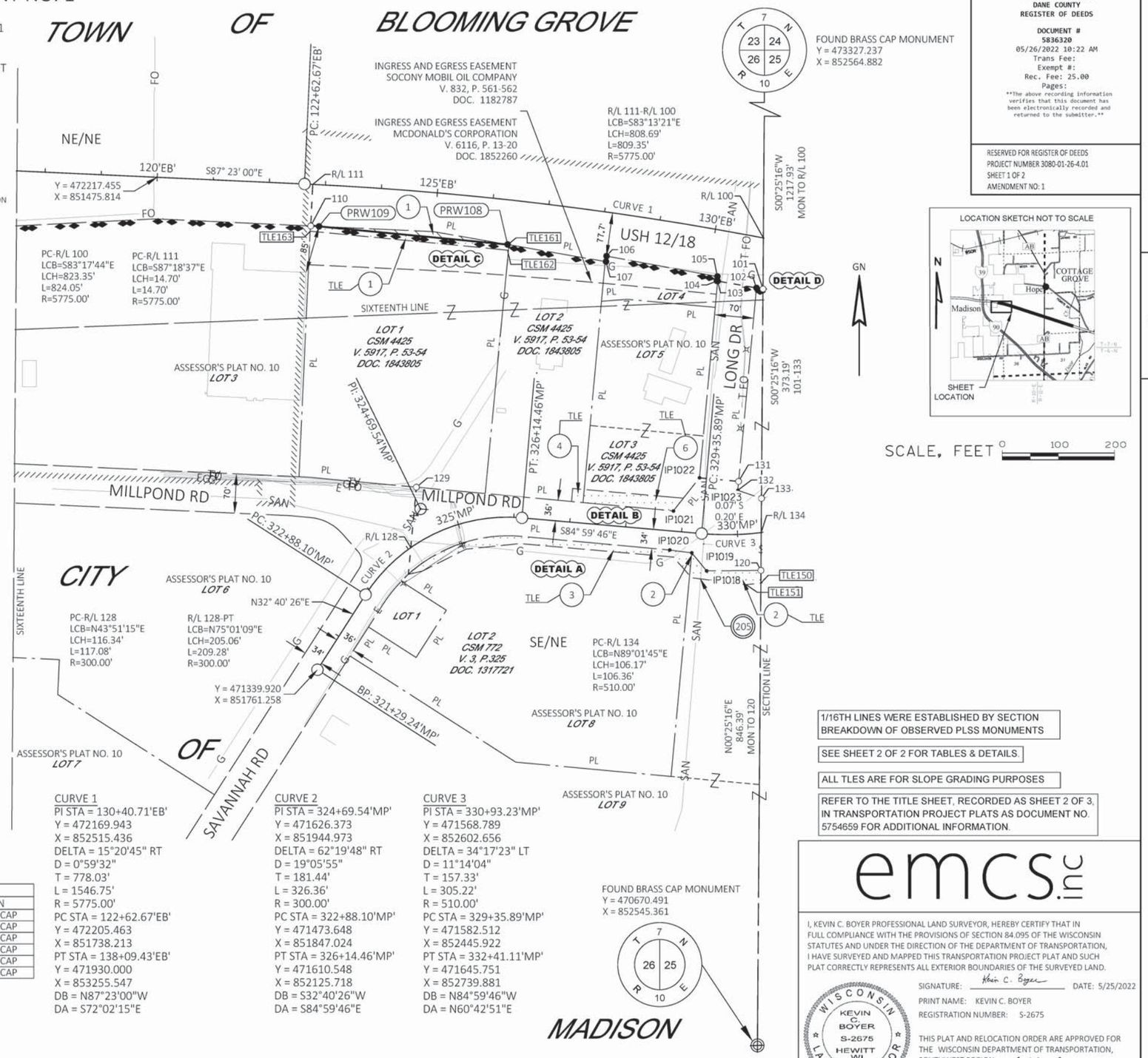
(202) FRONTIER COMMUNICATIONS OF WI LLC (COMMUNICATION)
NO RECORD OF EASEMENT - PAR 3

(203) MADISON GAS AND ELECTRIC (ELECTRIC)
VOL 6357 PG 6-7 DOC 1862457 - PAR 4
VOL 13784 PG 53-54 DOC 2182082 - PAR 4
NO RECORD OF EASEMENT - PAR 3

(204) KOCH PIPELINES CO. (GAS)
VOL 12108 PG 45-46 DOC 2110508 - PAR 3
VOL 12148 PG 5-6 DOC 2112301 - PAR 3
VOL 14981 PG 52-56 DOC 2231689 - PAR 2 & 3
VOL 12108 PG 47-49 DOC 2110509 - PAR 2 & 3

(205) MADISON METROPOLITAN SEWERAGE DISTRICT (SANITARY)
VOL 463 PG 480-481 DOC 1184156 - PAR 2
VOL 463 PG 478-479 DOC 1184155 - PAR 2

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP1018	471516.053	852454.778	3/4" REBAR DOT CAP
IP1019	471548.269	852428.258	3/4" REBAR DOT CAP
IP1020	471553.268	852389.075	3/4" REBAR DOT CAP
IP1021	471622.675	852395.505	3/4" REBAR DOT CAP
IP1022	471681.931	852442.086	3/4" REBAR DOT CAP
IP1023	471659.565	852510.528	3/4" REBAR DOT CAP



CURVE 1	CURVE 2	CURVE 3
PI STA = 130+40.71'EB'	PI STA = 324+69.54'MP'	PI STA = 330+93.23'MP'
Y = 472169.943	Y = 471626.373	Y = 471568.789
X = 852515.436	X = 851944.973	X = 852602.656
DELTA = 15°20'45" RT	DELTA = 62°19'48" RT	DELTA = 34°17'23" LT
D = 0°59'32"	D = 19°05'55"	D = 11°14'04"
T = 778.03'	T = 181.44'	T = 157.33'
L = 1546.75'	L = 326.36'	L = 305.22'
R = 5775.00'	R = 300.00'	R = 510.00'
PC STA = 122+62.67'EB'	PC STA = 322+88.10'MP'	PC STA = 329+35.89'MP'
Y = 472205.463	Y = 471473.648	Y = 471582.512
X = 851738.213	X = 851847.024	X = 852445.922
PT STA = 138+09.43'EB'	PT STA = 326+14.46'MP'	PT STA = 332+41.11'MP'
Y = 471930.000	Y = 471610.548	Y = 471645.751
X = 853255.547	X = 852125.718	X = 852739.881
DB = N87°23'00"W	DB = S32°40'26"W	DB = N84°59'46"W
DA = S72°02'15"E	DA = S84°59'46"E	DA = N60°42'51"E

1/16TH LINES WERE ESTABLISHED BY SECTION BREAKDOWN OF OBSERVED PLSS MONUMENTS

SEE SHEET 2 OF 2 FOR TABLES & DETAILS.

ALL TLES ARE FOR SLOPE GRADING PURPOSES

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 3, IN TRANSPORTATION PROJECT PLATS AS DOCUMENT NO. 5754659 FOR ADDITIONAL INFORMATION.

LOCATION SKETCH NOT TO SCALE

KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT # 5836320
05/26/2022 10:22 AM
Trans Fee:
Exempt #:
Rec. Fee: 25.00
Pages:
The above recording information verifies that this document has been electronically recorded and returned to the submitter.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3080-01-26-4.01
SHEET 1 OF 2
AMENDMENT NO: 1

emcs.inc

I, KEVIN C. BOYER PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Kevin C. Boyer DATE: 5/25/2022
PRINT NAME: KEVIN C. BOYER
REGISTRATION NUMBER: S-2675

WISCONSIN KEVIN C. BOYER S-2675 HEWITT WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHWEST REGION.
SIGNATURE: Cory Schlagel DATE: 5/25/2022
PRINT NAME: CORY SCHLAGEL

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\TPP\040101-RP_A1.DWG
APPRAISAL PLAT DATE : 5/25/2022
PLOT DATE : 5/25/2022 10:09 AM
PLOT BY : ADMIN
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

3080-01-26-4.01-A1

COMPOSITE DRAWING, ORIGINAL IS ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY, NAD83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 3, IN TRANSPORTATION PROJECT PLATS AS DOCUMENT NO. 5754659 FOR ADDITIONAL INFORMATION.

ALL TLES ARE FOR SLOPE GRADING PURPOSES

DETAILS ARE NOT TO SCALE

TRANSPORTATION PROJECT PLAT NO: 3080-01-26 - 4.01 AMENDMENT NO. 1 EXTENSION SHEET

AMENDMENT REMOVES FEE AND REVISES TLE FOR PARCEL 3, AND REMOVES UTILITY NUMBER 201 OF TPP 3080-01-26-4.01 RECORDED AS DOCUMENT NUMBER 5754659

RELOCATION ORDER: USH 12, MADISON - CAMBRIDGE (CTH AB INTERCHANGE), DANE COUNTY

GN

USH 12 COURSE TABLE		
COURSE	BEARING	DISTANCE
100-101	S00° 25' 16"W	90.96'
101-102	N80° 07' 18"W	11.83'
102-103	N80° 07' 18"W	70.23'
103-104	N80° 07' 18"W	1.33'
104-105	N05° 16' 16"E	8.00'
105-106	N79° 33' 11"W	200.82'
106-107	S05° 16' 16"W	10.00'
107-PRW108	N80° 07' 18"W	177.97'
PRW108-PRW109	N84° 30' 21"W	337.51'
PRW109-110	N87° 22' 13"W	14.85'
110-111	N02° 45' 45"E	74.22'
111-100	SEE CURVE DATA	

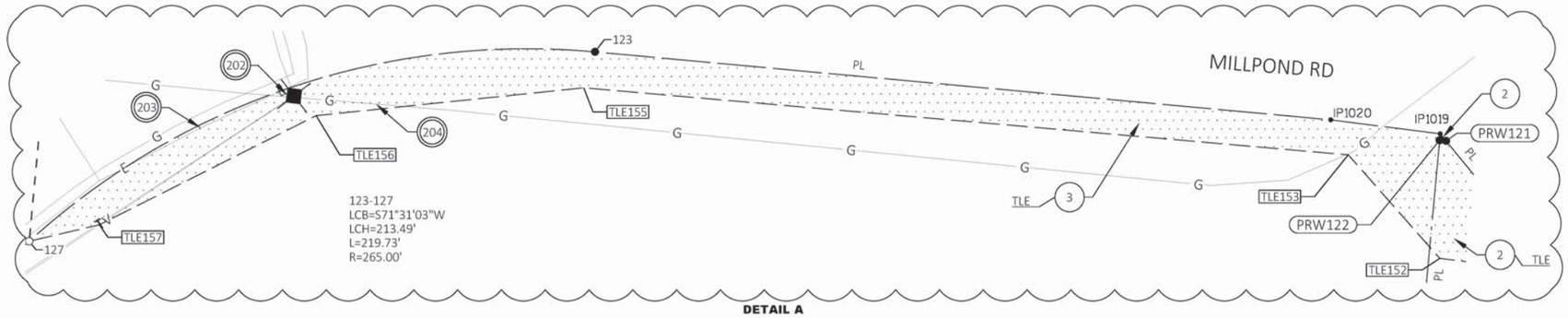
COURSE TABLE MILLPOND		
COURSE	BEARING	DISTANCE
120-IP1018	S89° 31' 32"W	96.80'
IP1018-PRW121	N39° 27' 40"W	38.44'
PRW121-PRW122	N84° 59' 46"W	2.31'
PRW122-IP1019	N05° 16' 22"E	2.35'
IP1019-IP1020	N82° 43' 46"W (N85° 07' 36"W)	39.50' (40.91')
IP1020-123	N84° 43' 44"W	264.49'
123-127	SEE CURVE DATA	
127-128	N05° 16' 16"E	47.86'
128-129	N05° 16' 16"E	108.14'
129-130	S84° 43' 44"E	459.89'
130-IP1022	N38° 18' 37"E	75.14'
IP1022-131	S84° 43' 42"E	70.00'
131-132	S05° 16' 18"W	15.93'
132-133	S71° 07' 01"E	44.60'
133-134	S00° 25' 16"W	60.89'
134-120	S00° 25' 16"W	67.46'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
100	130+86.72 'EB'	0.00'
101	131+03.35 'EB'	89.45'
102	130+91.34 'EB'	89.66'
103	130+20.01 'EB'	90.40'
104	130+18.66 'EB'	90.41'
105	130+17.97 'EB'	82.43'
106	128+14.38 'EB'	77.71'
107	128+14.88 'EB'	87.70'
PRW108	126+34.48 'EB'	79.39'
PRW109	122+92.42 'EB'	74.17'
110	122+77.37 'EB'	74.22'
111	122+77.37 'EB'	0.00'

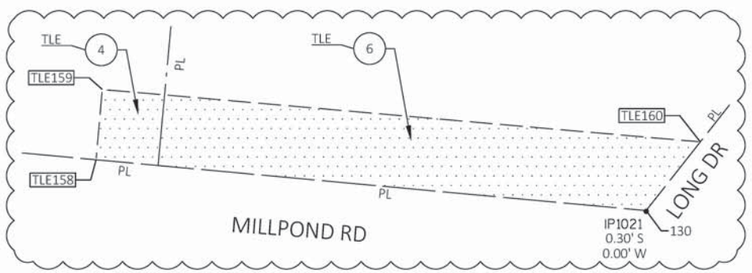
STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
120	330+34.61 'MP'	66.97'
IP1018	329+48.85 'MP'	65.62'
PRW121	329+23.59 'MP'	38.00'
PRW122	329+21.27 'MP'	38.00'
IP1019	329+21.28 'MP'	35.65'
IP1020	328+81.81 'MP'	34.09'
123	326+17.33 'MP'	32.86'
127	323+70.15 'MP'	34.72'
128	324+05.18 'MP'	0.00'
129	324+59.37 'MP'	-88.88'
130	328+82.14 'MP'	-35.91'
IP1022	329+23.40 'MP'	-98.71'
131	330+06.69 'MP'	-94.38'
132	330+03.99 'MP'	-78.61'
133	330+51.11 'MP'	-60.32'
134	330+42.25 'MP'	0.00'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE150	330+32.43 'MP'	89.42'
TLE151	330+10.00 'MP'	90.00'
TLE152	329+25.00 'MP'	80.00'
TLE153	328+89.17 'MP'	46.00'
TLE155	326+14.46 'MP'	46.00'
TLE156	325+00.00 'MP'	46.00'
TLE157	323+96.96 'MP'	46.00'
TLE158	327+00.00 'MP'	-36.76'
TLE159	327+00.00 'MP'	-60.00'
TLE160	328+97.97 'MP'	-60.00'

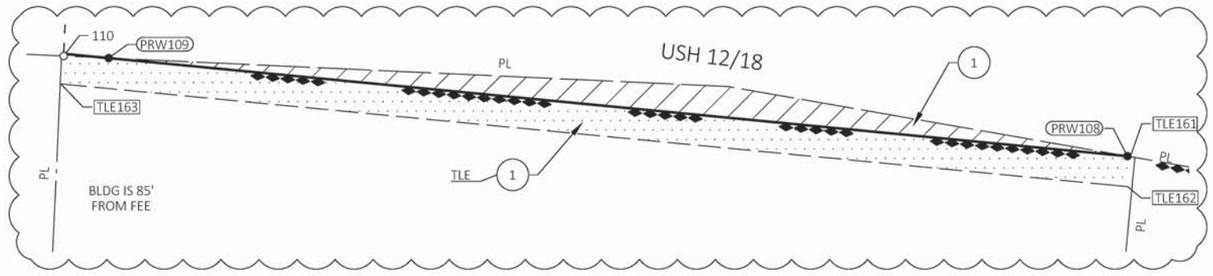
TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE161	126+35.50 'EB'	79.45'
TLE162	126+35.67 'EB'	89.37'
TLE163	122+76.89 'EB'	83.47'



DETAIL A



DETAIL B



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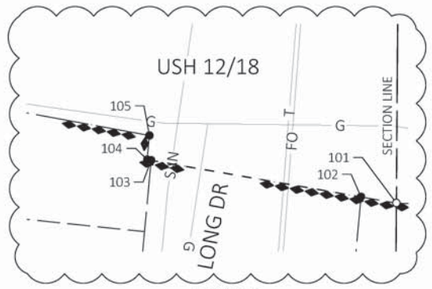


DETAIL D

TPP NUMBER 3080-01-26-4.01
SHEET 2 OF 3
AMENDMEN

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\TPP\040101-RP_A1.DWG
APPRAISAL PLAT DATE : 5/25/2022
PLOT DATE : 5/25/2022 10:10 AM
PLOT BY : ADMIN
PLOT NAME :
PLOT SCALE : ############

3080-01-26-4.01-A1

COMPOSITE DRAWING, ORIGINAL IS ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 3080-01-26 - 4.02 AMENDMENT NO. 1

AMENDMENT MODIFIES UTILITY NUMBERS 202 AND 207, AND REMOVES UTILITY NUMBER 208 OF TPP 3080-01-26-4.02 RECORDED AS DOCUMENT NUMBER 5758476

THAT PART OF THE SW1/4 OF THE NW1/4, AND PART OF LOT 1 OF CSM 15636, BEING PART OF THE SE1/4 OF THE NW1/4, ALSO PART OF THE SE1/4 OF THE NW1/4, ALL LOCATED IN SECTION 25, TOWNSHIP 7 NORTH, RANGE 10 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER: USH 12, MADISON - CAMBRIDGE (CTH AB INTERCHANGE), DANE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE

KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
5814372
02/24/2022 11:04 AM
Trans Fee:
Exempt #:
Rec. Fee: 25.00
Pages:
The above recording information verifies that this document has been electronically recorded and returned to the submitter.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3080-01-26-4.02
SHEET 1 OF 2
AMENDMENT NO:1

1/16TH LINES WERE ESTABLISHED BY SECTION BREAKDOWN OF OBSERVED PLSS MONUMENTS

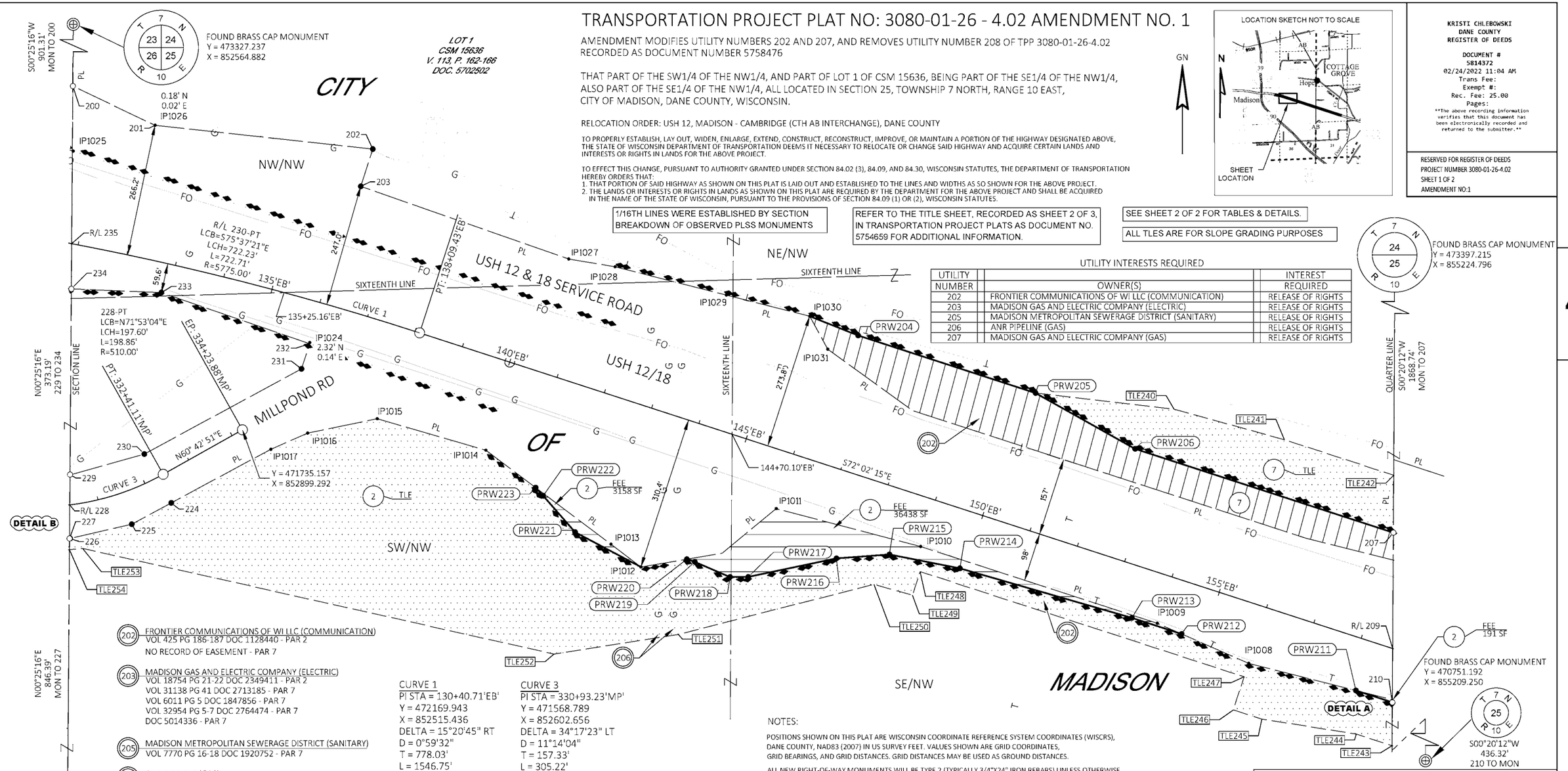
REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 3, IN TRANSPORTATION PROJECT PLATS AS DOCUMENT NO. 5754659 FOR ADDITIONAL INFORMATION.

SEE SHEET 2 OF 2 FOR TABLES & DETAILS.

ALL TLES ARE FOR SLOPE GRADING PURPOSES

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	FRONTIER COMMUNICATIONS OF WI LLC (COMMUNICATION)	RELEASE OF RIGHTS
203	MADISON GAS AND ELECTRIC COMPANY (ELECTRIC)	RELEASE OF RIGHTS
205	MADISON METROPOLITAN SEWERAGE DISTRICT (SANITARY)	RELEASE OF RIGHTS
206	ANR PIPELINE (GAS)	RELEASE OF RIGHTS
207	MADISON GAS AND ELECTRIC COMPANY (GAS)	RELEASE OF RIGHTS



(202) FRONTIER COMMUNICATIONS OF WI LLC (COMMUNICATION)
VOL 425 PG 186-187 DOC 1128440 - PAR 2
NO RECORD OF EASEMENT - PAR 7

(203) MADISON GAS AND ELECTRIC COMPANY (ELECTRIC)
VOL 18754 PG 21-22 DOC 2349411 - PAR 2
VOL 31138 PG 41 DOC 2713185 - PAR 7
VOL 6011 PG 5 DOC 1847856 - PAR 7
VOL 32954 PG 5-7 DOC 2764474 - PAR 7
DOC 5014336 - PAR 7

(205) MADISON METROPOLITAN SEWERAGE DISTRICT (SANITARY)
VOL 7770 PG 16-18 DOC 1920752 - PAR 7

(206) ANR PIPELINE (GAS)
VOL 350 PG 337-339 DOC 1005472 - PAR 2
VOL 412 PG 137-141 DOC 1106848 - PAR 2
VOL 412 PG 142-144 DOC 1106849 - PAR 2

(207) MADISON GAS AND ELECTRIC COMPANY (GAS)
VOL 6011 PG 5 DOC 1847856 - PAR 7

CURVE 1
PI STA = 130+40.71'EB'
Y = 472169.943
X = 852515.436
DELTA = 15°20'45" RT
D = 0°59'32"
T = 778.03'
L = 1546.75'
R = 5775.00'
PC STA = 122+62.67'EB'
Y = 472205.463
X = 851738.213
PT STA = 138+09.43'EB'
Y = 471930.000
X = 853255.547
DB = N87°23'00"W
DA = S72°02'15"E

CURVE 3
PI STA = 330+93.23'MP'
Y = 471568.789
X = 852602.656
DELTA = 34°17'23" LT
D = 11°14'04"
T = 157.33'
L = 305.22'
R = 510.00'
PC STA = 329+35.89'MP'
Y = 471582.512
X = 852445.922
PT STA = 332+41.11'MP'
Y = 471645.751
X = 852739.881
DB = N84°59'46"W
DA = N60°42'51"E

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTERESTS REQUIRED	R/W SF REQUIRED NEW	EXISTING	TOTAL	TLE SF
2	CITY OF MADISON (PARKS YAHARA HILLS GOLF COURSE)	FEE/TLE	39787	---	39787	401851
7	DANE COUNTY PUBLIC WORKS RODEFELD LANDFILL	FEE/TLE	96134	---	96134	66370

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY, NAD83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"X24" IRON REBARS) UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE FOR USH 12/18: R/W PLAT 3080-00-21, R/W PLAT F04-2(31), CSM 15636 AND EXISTING CENTERLINE.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE FOR USH 12/18 SERVICE RD: R/W PLAT 3080-00-21, R/W PLAT F04-2(31), CSM 15636 AND EXISTING CENTERLINE.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE FOR MILLPOND RD: R/W PLAT 3080-00-21, R/W PLAT F04-2(31) AND EXISTING CENTERLINE.

EXISTING ACCESS CONTROL ALONG USH 12/18 HAS BEEN ESTABLISHED FROM R/W PLAT 3080-00-21, R/W PLAT F04-2(31) AND CSM 15636.

EXISTING ACCESS CONTROL ALONG MILLPOND RD HAS BEEN ESTABLISHED FROM R/W PLAT 3080-00-21 AND R/W PLAT F04-2(31).

EXISTING ACCESS CONTROL ALONG USH 12/18 SERVICE RD HAS BEEN ESTABLISHED FROM R/W PLAT 3080-00-21, R/W PLAT F04-2(31) AND CSM 15636.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION IN MADISON AND THE DANE COUNTY DEPARTMENT OF PUBLIC WORKS HIGHWAY AND TRANSPORTATION.

SCALE, FEET 0 100 200

emcs.inc

I, KEVIN C. BOYER PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Kevin C. Boyer DATE: 02/21/2022
PRINT NAME: KEVIN C. BOYER
REGISTRATION NUMBER: S-2675

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHWEST REGION.
SIGNATURE: Cory Schlagel DATE: 02/21/2022
PRINT NAME: CORY SCHLAGEL

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\TPP\040102-RP_A1.DWG
APPRAISAL PLAT DATE : 7/13/2021
PLOT DATE : 1/4/2022 12:37 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:200 FT

3080-01-26-4.02-A1

COMPOSITE DRAWING, ORIGINAL IS ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY, NAD83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 3, IN TRANSPORTATION PROJECT PLATS AS DOCUMENT NO. 5754659 FOR ADDITIONAL INFORMATION.

ALL TLES ARE FOR SLOPE GRADING PURPOSES

DETAILS ARE NOT TO SCALE

TRANSPORTATION PROJECT PLAT NO: 3080-01-26 - 4.02 AMENDMENT NO. 1 EXTENSION SHEET

RELOCATION ORDER: USH 12, MADISON - CAMBRIDGE (CTH AB INTERCHANGE), DANE COUNTY

4

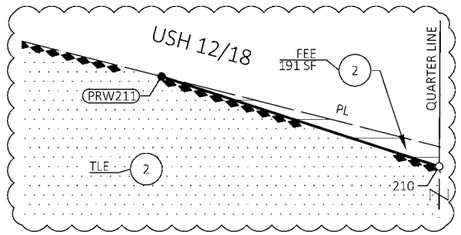
EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP1008	471265.771	854923.065	3/4" REBAR DOT CAP
IP1009	471346.385	854738.937	3/4" REBAR DOT CAP
IP1010	471500.654	854263.192	3/4" REBAR DOT CAP
IP1011	471576.797	853972.596	3/4" REBAR DOT CAP
IP1012	471459.420	853700.675	3/4" REBAR DOT CAP
IP1013	471505.254	853640.376	3/4" REBAR DOT CAP
IP1014	471694.052	853388.969	3/4" REBAR DOT CAP
IP1015	471757.409	853170.347	3/4" REBAR DOT CAP
IP1016	471728.581	853030.505	3/4" REBAR DOT CAP
IP1017	471695.962	852956.372	3/4" REBAR DOT CAP
IP1024	471910.435	853034.623	1.25" IP-LEANS 45°NE
IP1025	472295.251	852558.910	3/4" REBAR DOT CAP
IP1026	472347.311	852723.620	3/4" REBAR DOT CAP
IP1027	472078.446	853555.450	3/4" REBAR DOT CAP
IP1028	472062.829	853648.809	3/4" REBAR DOT CAP
IP1029	472005.859	853872.539	3/4" REBAR DOT CAP
IP1030	471963.454	854040.206	3/4" REBAR DOT CAP
IP1031	471897.036	854076.469	3/4" REBAR DOT CAP

COURSE TABLE		
COURSE	BEARING	DISTANCE
200-201	S64° 30' 41"E	183.17'
201-202	S83° 46' 23"E	440.49'
202-203	S17° 57' 18"W	78.78'
203-IP1027	S70° 45' 42"E	442.98'
IP1027-IP1028	S80° 30' 13"E (S80° 46' 34"E)	94.66' (94.65')
IP1028-IP1029	S75° 42' 50"E (S76° 11' 50"E)	230.87' (230.76')
IP1029-IP1030	S75° 48' 25"E (S76° 11' 50")	172.95' (173.02')
IP1030-PRW204	S68° 18' 32"E	104.70'
PRW204-PRW205	S72° 02' 15"E	375.00'
PRW205-PRW206	S60° 43' 39"E	229.46'
PRW206-207	S72° 02' 15"E	546.07'
207-209	S00° 20' 12"W	232.94'
209-210	S00° 20' 12"W	108.07'
210-PRW211	N72° 02' 15"W	77.05'
PRW211-IP1008	N75° 48' 13"W	222.24'
IP1008-PRW212	N66° 21' 20"W	147.45'
PRW212-PRW213	N72° 02' 15"W	105.06'
PRW213-PRW214	N73° 56' 51"W	359.97'
PRW214-PRW215	N78° 53' 31"W	144.39'
PRW215-PRW216	S85° 47' 10"W	107.00'
PRW216-PRW217	S78° 10' 32"W	181.20'
PRW217-PRW218	S89° 20' 57"W	36.53'
PRW218-PRW219	N66° 40' 16"W	77.27'
PRW219-PRW220	N71° 36' 52"W	16.72'
PRW220-IP1012	S80° 20' 55"W	93.68'
IP1012-PRW221	N62° 06' 24"W	149.78'
PRW221-PRW222	N41° 18' 35"W	97.30'
PRW222-PRW223	N42° 39' 25"W	22.24'
PRW223-IP1014	N53° 05' 41"W	125.09'
IP1014-IP1015	N73° 50' 18"W (N74° 17' 14"W)	227.62' (227.45')
IP1015-IP1016	S78° 21' 07"W (S77° 57' 14"W)	142.78' (142.73')
IP1016-IP1017	S66° 15' 01"W (S65° 58' 31"W)	80.99' (80.92')
IP1017-224	S61° 43' 38"W	227.42'
224-225	S61° 42' 33"W	90.17'
225-226	S76° 58' 49"W	127.12'
226-227	S89° 31' 32"W	1.25'
227-228	N00° 25' 16"E	67.46'
228-229	N00° 25' 16"E	60.89'
229-230	N74° 35' 53"E	154.99'
230-231	N61° 33' 06"E	359.60'
231-232	N17° 57' 55"E	53.03'
232-233	N70° 58' 35"W	315.39'
233-234	N87° 38' 14"W	181.20'
234-235	N00° 25' 16"E	90.96'
235-200	N00° 25' 16"E	316.62'

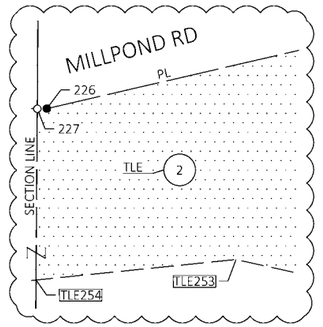
STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
200	130+32.64 'EB'	-311.72'
201	132+01.61 'EB'	-266.18'
202	136+16.87 'EB'	-325.73'
203	136+14.37 'EB'	-247.00'
PRW204	146+50.00 'EB'	-267.00'
PRW205	150+25.00 'EB'	-267.00'
PRW206	152+50.00 'EB'	-222.00'
207	157+96.07 'EB'	-222.00'
209	158+66.60 'EB'	0.00'
210	158+99.32 'EB'	103.00'
PRW211	158+22.27 'EB'	103.00'
PRW212	154+53.79 'EB'	103.00'
PRW213	153+48.74 'EB'	103.00'
PRW214	149+88.97 'EB'	115.00'
PRW215	148+45.61 'EB'	132.23'
PRW216	147+46.53 'EB'	172.62'
PRW217	145+89.26 'EB'	262.64'
PRW218	145+54.65 'EB'	274.30'
PRW219	144+77.71 'EB'	267.07'
PRW220	144+60.99 'EB'	266.95'
PRW221	142+30.45 'EB'	284.54'
PRW222	141+46.80 'EB'	234.82'
PRW223	141+27.42 'EB'	223.91'
224	134+06.91 'EB'	466.25'
225	133+33.48 'EB'	526.46'
226	132+06.70 'EB'	581.45'
227	132+05.35 'EB'	581.72'
228	131+90.52 'EB'	515.61'
229	131+77.45 'EB'	455.91'
230	133+25.26 'EB'	383.55'
231	136+00.84 'EB'	138.35'
232	136+02.79 'EB'	85.36'
233	132+84.42 'EB'	59.56'
234	131+03.35 'EB'	89.45'
235	130+86.72 'EB'	0.00'
IP1008	156+00.51 'EB'	117.60'
IP1012	143+77.98 'EB'	310.37'
IP1014	140+09.11 'EB'	183.30'
IP1015	137+80.66 'EB'	190.39'
IP1016	136+50.32 'EB'	258.91'
IP1017	135+84.87 'EB'	310.77'
IP1027	140+48.93 'EB'	-233.70'
IP1028	141+42.56 'EB'	-247.64'
IP1029	143+72.95 'EB'	-262.44'
IP1030	145+45.52 'EB'	-273.81'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE240	153+00.00 'EB'	-322.00'
TLE241	155+30.00 'EB'	-332.00'
TLE242	157+61.12 'EB'	-332.00'
TLE243	159+25.69 'EB'	186.00'
TLE244	158+50.00 'EB'	186.00'
TLE245	156+60.00 'EB'	216.00'
TLE246	156+00.00'EB'	216.00'
TLE247	156+00.00 'EB'	146.00'
TLE248	149+15.00 'EB'	146.00'
TLE249	149+15.00 'EB'	196.00'
TLE250	148+34.42 'EB'	198.96'
TLE251	144+91.39 'EB'	415.95'
TLE252	142+65.53 'EB'	530.70'
TLE253	132+38.56 'EB'	595.65'
TLE254	132+10.40 'EB'	603.85'

GN



DETAIL A



DETAIL B

TPP NUMBER 3080-01-26-4.02
SHEET 2 OF 2
AMENDMENT NO. 1

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\TPP\040102-RP_A1.DWG
APPRAISAL PLAT DATE : 7/13/2021
PLOT DATE : 12/13/2021 2:44 PM
PLOT BY : DREW NELSON
PLOT NAME :
PLOT SCALE : ##########

3080-01-26-4.02-A1

COMPOSITE DRAWING, ORIGINAL IS ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 3080-01-26 - 4.03

THAT PART OF THE SW1/4 OF THE NE1/4 AND PART OF THE NW1/4 OF THE SE1/4 OF SECTION 25, TOWNSHIP 7 NORTH, RANGE 10 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER: USH 12, MADISON - CAMBRIDGE (CTH AB INTERCHANGE), DANE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY, NAD83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"X24" IRON REBARS) UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE FOR USH 12/18: R/W PLAT 3080-00-21, R/W PLAT F04-2(31), CSM 15636, PLAT OF SURVEY AND EXISTING CENTERLINE.

EXISTING ACCESS CONTROL ALONG USH 12/18 HAS BEEN ESTABLISHED FROM R/W PLAT 3080-00-21, R/W PLAT F04-2(31) AND CSM 15636.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON AND THE DANE COUNTY DEPARTMENT OF PUBLIC WORKS HIGHWAY AND TRANSPORTATION.

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP1004	470858.478	856157.585	3/4" REBAR DOT CAP
IP1005	470985.070	855778.113	3/4" REBAR DOT CAP
IP1006	471068.729	855594.825	3/4" REBAR DOT CAP
IP1007	471192.438	855212.953	3/4" REBAR DOT CAP
IP1032	471473.114	855214.774	3/4" REBAR DOT CAP
IP1033	471428.692	855393.064	3/4" REBAR DOT CAP
IP1034	471273.472	855871.475	3/4" REBAR DOT CAP
IP1035	471088.419	856442.471	3/4" REBAR DOT CAP

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
300	157+96.07 'EB'	-222.00'
PRW301	159+00.00 'EB'	-222.00'
PRW302	161+72.49 'EB'	-239.67'
303	171+85.84 'EB'	-246.88'
304	172+64.20 'EB'	0.00'
305	172+86.27'EB'	69.54'
306	172+96.87 'EB'	103.00'
PRW307	172+17.96 'EB'	103.00'
308	171+87.01 'EB'	105.08'
PRW309	163+44.85 'EB'	103.00'
310	158+99.32 'EB'	103.00'
311	158+66.60 'EB'	0.00'
IP1004	169+00.47 'EB'	124.32'
IP1005	165+00.45 'EB'	120.92'

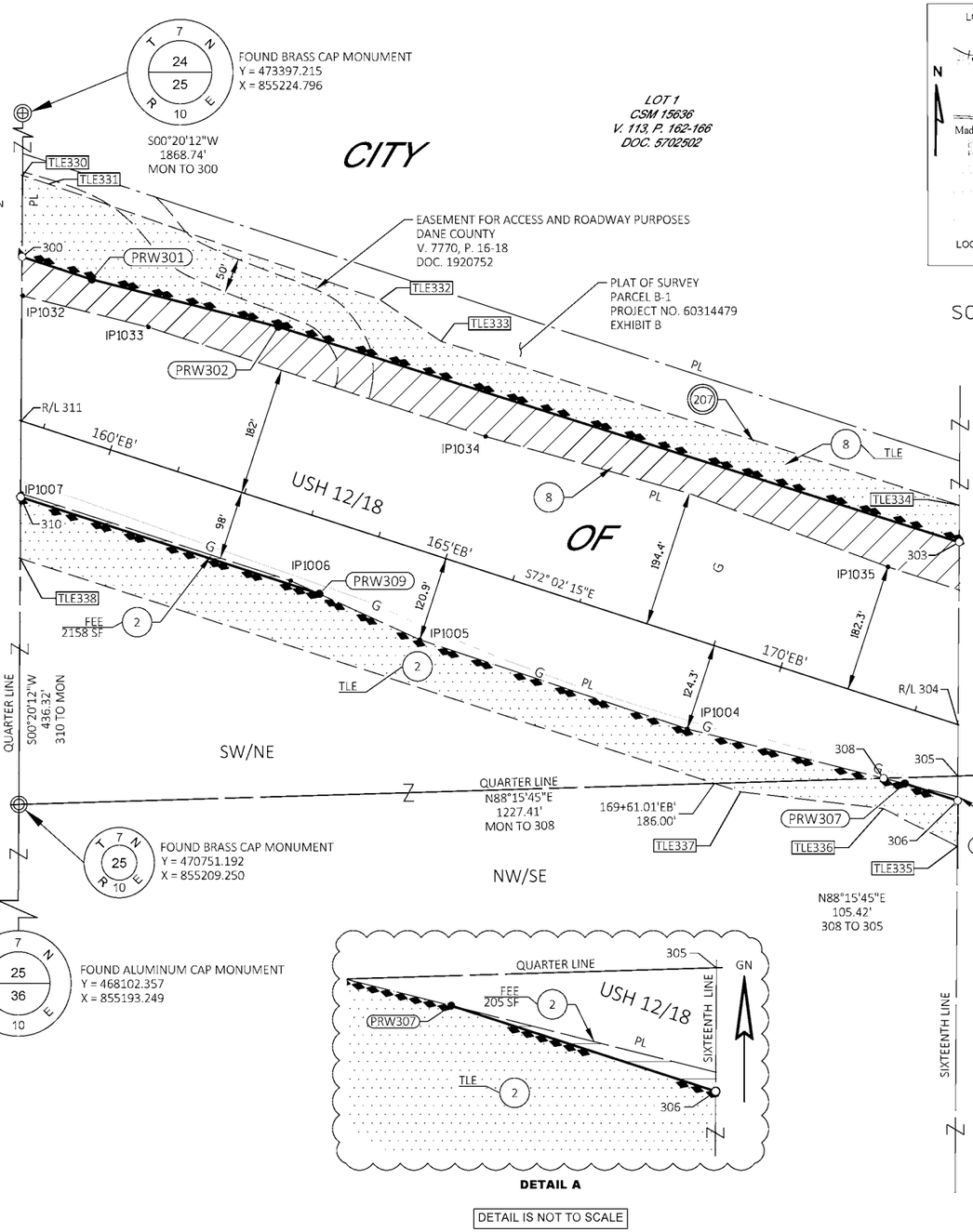
COURSE TABLE		
COURSE	BEARING	DISTANCE
300-PRW301	S72° 02' 15"E	103.93'
PRW301-PRW302	S75° 44' 50"E	273.66'
PRW302-303	S72° 26' 42"E	1013.38'
303-304	S00° 21' 14"W	259.02'
304-305	S00° 21' 14"W	72.96'
305-306	S00° 22' 43"W	35.10'
306-PRW307	N72° 02' 15"W	78.91'
PRW307-308	N75° 52' 43"W	31.02'
308-IP1004	N75° 52' 43"W	287.19'
IP1004-IP1005	N71° 33' 05"W (N71° 56' 28"W)	400.03' (400.01')
IP1005-PRW309	N65° 27' 59"W	156.63'
PRW309-310	N72° 02' 15"W	445.53'
310-311	N00° 20' 12"E	108.07'
311-300	N00° 20' 12"E	232.94'

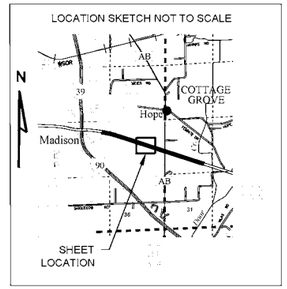
TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE330	157+61.12 'EB'	-332.00'
TLE331	158+00.00 'EB'	-332.00'
TLE332	162+98.28 'EB'	-320.57'
TLE333	163+98.49 'EB'	-291.28'
TLE334	171+70.00 'EB'	-296.77'
TLE335	173+16.45 'EB'	164.79'
TLE336	172+00.00 'EB'	146.00'
TLE337	170+00.00 'EB'	186.00'
TLE338	159+25.69 'EB'	186.00'

(203) MADISON GAS AND ELECTRIC COMPANY (ELECTRIC)
VOL 18754 PG 21-22 DOC 2349411 - PAR 2

(207) MADISON GAS AND ELECTRIC COMPANY (GAS)
DOC 5448749 - PAR 8

(209) ALLIANT ENERGY (ELECTRIC)
PG 363 DOC 460798A - PAR 2 & 8





KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
5758477
08/06/2021 01:02 PM
Trans Fee:
Exempt #:
Rec. Fee: 25.00
Pages:
The above recording information verifies that this document has been electronically recorded and returned to the submitter.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3080-01-26-4.03
AMENDMENT NO:___

DETAIL A

DETAIL IS NOT TO SCALE

MADISON

1/16TH LINES WERE ESTABLISHED BY SECTION BREAKDOWN OF OBSERVED PLSS MONUMENTS

ALL TLES ARE FOR SLOPE GRADING PURPOSES

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 3, IN TRANSPORTATION PROJECT PLATS AS DOCUMENT NO. 5754659 FOR ADDITIONAL INFORMATION.

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
203	MADISON GAS AND ELECTRIC COMPANY (ELECTRIC)	RELEASE OF RIGHTS
207	MADISON GAS AND ELECTRIC COMPANY (GAS)	RELEASE OF RIGHTS
209	ALLIANT ENERGY (ELECTRIC)	RELEASE OF RIGHTS

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTERESTS REQUIRED	R/W SF REQUIRED NEW	EXISTING	TOTAL	TLE SF
2	CITY OF MADISON (PARKS YAHARA HILLS GOLF COURSE)	FEE/TLE	2363	---	2363	95731
8	CITY OF MADISON (STREETS)	FEE/TLE	77149	---	77149	95117

emcs LLC

I, KEVIN C. BOYER PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

SIGNATURE: Kevin C. Boyer DATE: 08/04/2021
PRINT NAME: KEVIN C. BOYER
REGISTRATION NUMBER: S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHWEST REGION.
SIGNATURE: Cory Schlagel DATE: 08/04/2021
PRINT NAME: CORY SCHLAGEL

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\TPP\040103-RP.DWG
APPRAISAL PLAT DATE : 07/13/2021
PLOT DATE : 8/4/2021 2:11 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:200 FT

COMPOSITE DRAWING, ORIGINAL IS ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

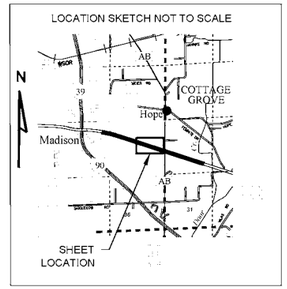
TRANSPORTATION PROJECT PLAT NO: 3080-01-26 - 4.04

THAT PART OF THE SE1/4 OF THE NE1/4, AND PART OF THE NE1/4 OF THE SE1/4 ALL IN SECTION 25, TOWNSHIP 7 NORTH, RANGE 10 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER: USH 12, MADISON - CAMBRIDGE (CTH AB INTERCHANGE), DANE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

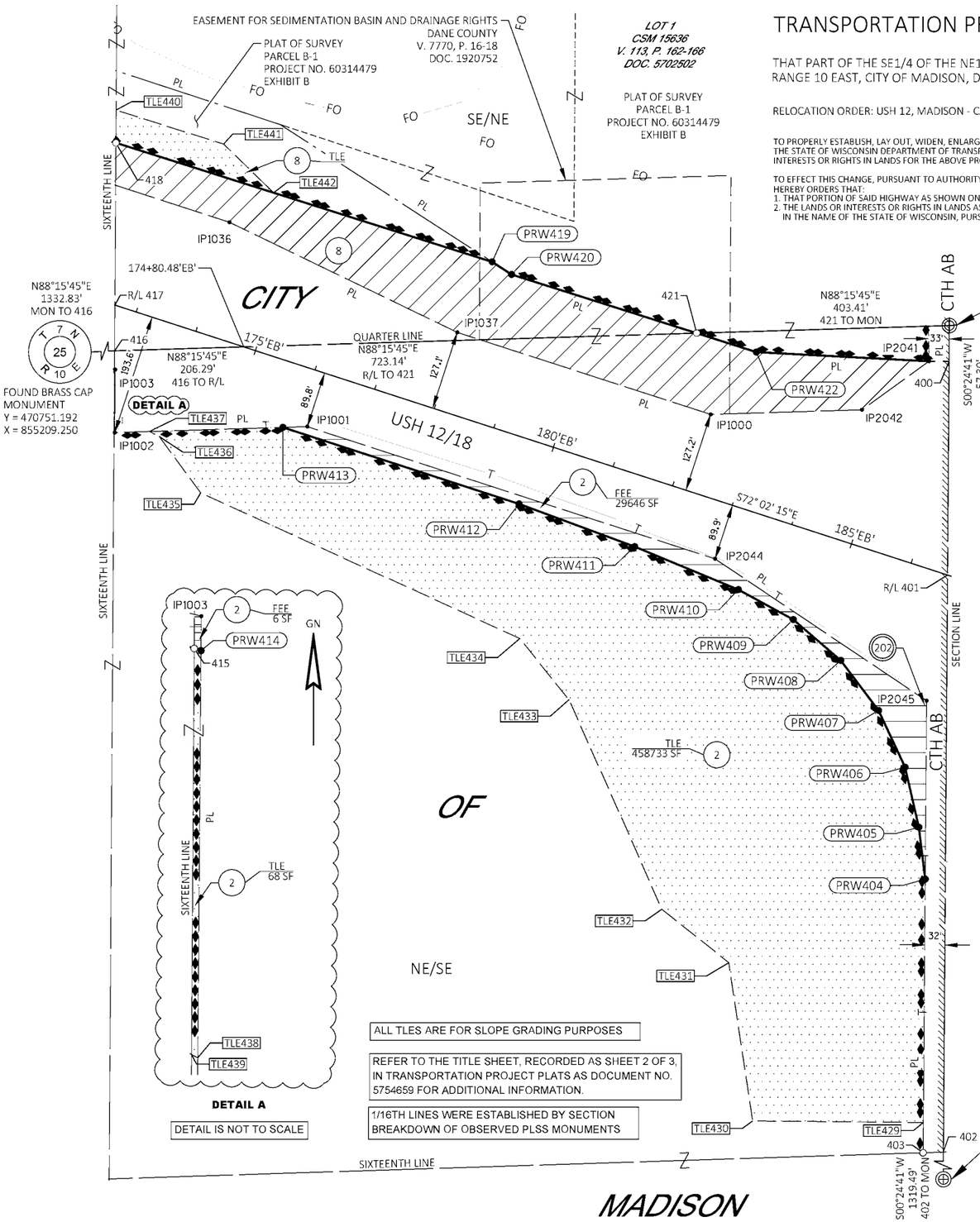
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT # 5758478
08/06/2021 01:05 PM
Trans Fee:
Exempt #:
Rec. Fee: 25.00
Pages:
The above recording information verifies that this document has been electronically recorded and returned to the submitter.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3080-01-26-4.04
AMENDMENT NO:___



EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP1000	470690.126	857492.597	3/4" REBAR DOT CAP
IP1001	470670.596	856849.015	3/4" REBAR DOT CAP
IP1002	470661.147	856541.576	3/4" REBAR DOT CAP
IP1003	470761.677	856542.360	3/4" REBAR DOT CAP
IP1036	470996.852	856724.742	3/4" REBAR DOT CAP
IP1037	470821.031	857088.408	3/4" REBAR DOT CAP
IP2041	470774.950	857841.205	5/8" REBAR
IP2042	470697.382	857734.123	3/4" REBAR DOT CAP
IP2044	470459.509	857499.844	3/4" REBAR DOT CAP
IP2045	470232.986	857837.303	3/4" REBAR DOT CAP

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTERESTS REQUIRED	R/W SF REQUIRED NEW	EXISTING	TOTAL	TLE SF
2	CITY OF MADISON (PARKS YAHARA HILLS GOLF COURSE)	FEE/TLE	29652	---	29652	458801
8	CITY OF MADISON (STREETS)	FEE/TLE	126194	---	126194	11104

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	FRONTIER COMMUNICATIONS OF WI LLC (COMMUNICATION)	RELEASE OF RIGHTS
209	ALLIANT ENERGY (ELECTRIC)	RELEASE OF RIGHTS

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
400	185+58.37 'EB'	-325.12'
401	186+61.20 'EB'	0.00'
402	189+39.00'EB'	878.31'
403	189+08.52 'EB'	889.29'
PRW404	187+77.03 'EB'	472.91'
PRW405	187+41.77 'EB'	397.12'
PRW406	186+91.24 'EB'	312.74'
PRW407	186+23.11 'EB'	239.55'
PRW408	185+41.11 'EB'	182.31'
PRW409	184+48.91 'EB'	143.60'
PRW410	183+50.63 'EB'	125.13'
PRW411	181+72.04 'EB'	110.84'
PRW412	179+75.63 'EB'	103.00'
PRW413	175+79.34 'EB'	103.00'
IP1002	173+26.60 'EB'	193.61'
PRW414	172+98.00 'EB'	103.00'
415	172+96.87 'EB'	103.00'
416	172+86.27 'EB'	69.54'
417	172+64.20 'EB'	0.00'
418	171+85.84 'EB'	-246.88'
PRW419	178+15.71 'EB'	-251.36'
PRW420	178+51.36 'EB'	-241.82'
421	181+61.29 'EB'	-243.77'
PRW422	182+61.20 'EB'	-244.40'
IP2041	185+27.78 'EB'	-315.45'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE429	188+93.98 'EB'	843.23'
TLE430	186+34.04 'EB'	924.97'
TLE431	185+19.89 'EB'	696.41'
TLE432	183+92.01 'EB'	648.12'
TLE433	181+47.98 'EB'	375.47'
TLE434	180+43.06 'EB'	306.97'
TLE435	174+86.78 'EB'	242.86'
TLE436	173+95.94 'EB'	177.61'
TLE437	173+78.89 'EB'	174.86'
TLE438	173+17.56 'EB'	164.97'
TLE439	173+16.45 'EB'	164.79'
TLE440	171+70.00 'EB'	-296.77'
TLE441	173+50.00 'EB'	-298.05'
TLE442	174+50.00 'EB'	-248.76'

(202) FRONTIER COMMUNICATIONS OF WI LLC (COMMUNICATION)
NO RECORD OF EASEMENT - PAR 2

(209) ALLIANT ENERGY (ELECTRIC)
PG 363 DOC 460798A - PAR 2 & 8
VOL 295 PG 336 DOC 926344 - PAR 8
VOL 295 PG 334 DOC 926342 - PAR 2

COURSE TABLE		
COURSE	BEARING	DISTANCE
400-401	S00° 24' 41"W	340.99'
401-402	S00° 24' 41"W	921.20'
402-403	S88° 09' 18"W	32.39'
403-PRW404	N00° 26' 11"E	436.65'
PRW404-PRW405	N06° 59' 06"W	83.59'
PRW405-PRW406	N12° 57' 08"W	98.35'
PRW406-PRW407	N24° 59' 16"W	100.00'
PRW407-PRW408	N37° 07' 25"W	100.00'
PRW408-PRW409	N49° 15' 34"W	100.00'
PRW409-PRW410	N61° 23' 44"W	100.00'
PRW410-PRW411	N67° 27' 49"W	179.16'
PRW411-PRW412	N69° 45' 02"W	196.57'
PRW412-PRW413	N72° 02' 15"W	396.29'
PRW413-IP1002	S88° 14' 23"W	268.49'
IP1002-PRW414	N00° 26' 49"E	95.01'
PRW414-415	N72° 02' 15"W	1.13'
415-416	N00° 22' 43"E	35.10'
416-417	N00° 21' 14"E	72.96'
417-418	N00° 21' 14"E	259.02'
418-PRW419	S72° 26' 42"E	629.89'
PRW419-PRW420	S57° 03' 21"E	36.90'
PRW420-421	S72° 23' 50"E	309.95'
421-PRW422	S72° 23' 50"E	99.91'
PRW422-IP2041	S86° 57' 40"E	275.89'
IP2041-400	S89° 35' 19"E	32.08'

SCALE, FEET 0 100 200

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY, NAD83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"X24" IRON REBARS) UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE FOR USH 12/18: R/W PLAT 3080-00-21, R/W PLAT F04-2(31), CSM 15636, PLAT OF SURVEY AND EXISTING CENTERLINE.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE FOR CTH AB: R/W PLAT3080-00-21, R/W PLAT F04-2(31) AND EXISTING CENTERLINE.

EXISTING ACCESS CONTROL ALONG USH 12/18 HAS BEEN ESTABLISHED FROM R/W PLAT 3080-00-21 R/W PLAT F04-2(31) AND CSM 15636.

EXISTING ACCESS CONTROL ALONG CTH AB HAS BEEN ESTABLISHED FROM R/W PLAT 3080-00-21 AND R/W PLAT F04-2(31).

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON AND THE DANE COUNTY DEPARTMENT OF PUBLIC WORKS HIGHWAY AND TRANSPORTATION.

emcs.inc

I, KEVIN C. BOYER PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C. BOYER S-2675 HEWITT WI LAND SURVEYOR

SIGNATURE: Kevin C. Boyer DATE: 08/04/2021
PRINT NAME: KEVIN C. BOYER
REGISTRATION NUMBER: S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHWEST REGION.
SIGNATURE: Cory Schlagel DATE: 08/04/2021
PRINT NAME: CORY SCHLAGEL

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\TPP\040104-RP.DWG
APPRAISAL PLAT DATE : 07/14/2021
PLOT DATE : 8/4/2021 12:55 PM
PLOT BY : DREW NELSON
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

COMPOSITE DRAWING, ORIGINAL IS ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 3080-01-26 - 4.05

THAT PART OF THE SE1/4 OF THE SE1/4, OF SECTION 25, LOCATED IN TOWNSHIP 7 NORTH, RANGE 10 EAST, CITY OF MADISON, AND PART OF LOT 1 OF CSM 9029, & LOT 2 OF CSM 8289, LOCATED IN THE N1/2 OF THE FRACTIONAL SW1/4, AND PART OF LOT 1 OF CSM 9029, & LOT 2 OF CSM 8289, LOCATED IN THE S1/2 OF THE FRACTIONAL SW1/4, AND PART OF LOT 2 OF CSM 8289, LOCATED IN THE NW1/4 OF THE SE1/4, ALSO PART OF THE SW1/4 OF THE SE1/4, LOCATED IN SECTION 30, ALL LOCATED IN TOWNSHIP 7 NORTH, RANGE 11 EAST, TOWN OF COTTAGE GROVE, DANE COUNTY, WISCONSIN.

RELOCATION ORDER: USH 12, MADISON - CAMBRIDGE (CTH AB INTERCHANGE), DANE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SEE SHEET 2 OF 2 FOR TABLES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 3, IN TRANSPORTATION PROJECT PLATS AS DOCUMENT NO. 5754659 FOR ADDITIONAL INFORMATION.

ALL TLES ARE FOR SLOPE GRADING PURPOSES

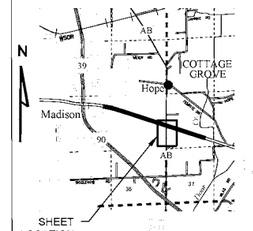
1/16TH LINES WERE ESTABLISHED BY SECTION BREAKDOWN OF OBSERVED PLSS MONUMENTS

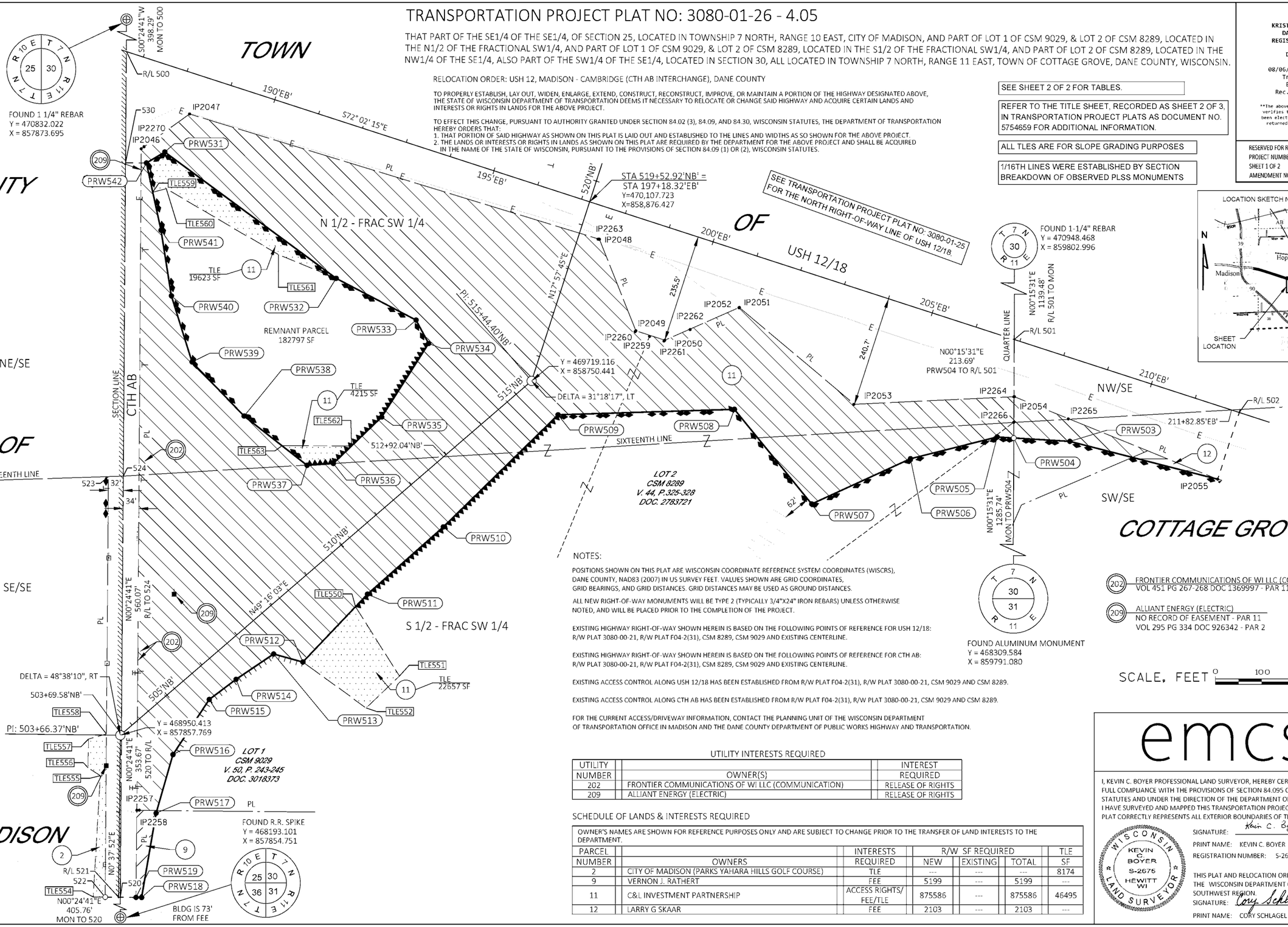
KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
5758479
08/06/2021 01:05 PM
Trans Fee:
Exempt #:
Rec. Fee: 25.00
Pages:
The above recording information verifies that this document has been electronically recorded and returned to the submitter.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3080-01-26-4.05
SHEET 1 OF 2
AMENDMENT NO:___

LOCATION SKETCH NOT TO SCALE





NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY, NAD83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"X24" IRON REBARS) UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE FOR USH 12/18: R/W PLAT 3080-00-21, R/W PLAT F04-2(31), CSM 8289, CSM 9029 AND EXISTING CENTERLINE.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE FOR CTH AB: R/W PLAT 3080-00-21, R/W PLAT F04-2(31), CSM 8289, CSM 9029 AND EXISTING CENTERLINE.

EXISTING ACCESS CONTROL ALONG USH 12/18 HAS BEEN ESTABLISHED FROM R/W PLAT F04-2(31), R/W PLAT 3080-00-21, CSM 9029 AND CSM 8289.

EXISTING ACCESS CONTROL ALONG CTH AB HAS BEEN ESTABLISHED FROM R/W PLAT F04-2(31), R/W PLAT 3080-00-21, CSM 9029 AND CSM 8289.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON AND THE DANE COUNTY DEPARTMENT OF PUBLIC WORKS HIGHWAY AND TRANSPORTATION.

(202) FRONTIER COMMUNICATIONS OF WI LLC (COMMUNICATION)
VOL 451 PG 267-268 DOC 1369997 - PAR 11

(209) ALLIANT ENERGY (ELECTRIC)
NO RECORD OF EASEMENT - PAR 11
VOL 295 PG 334 DOC 926342 - PAR 2

GN

SCALE, FEET 0 100 200

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	FRONTIER COMMUNICATIONS OF WI LLC (COMMUNICATION)	RELEASE OF RIGHTS
209	ALLIANT ENERGY (ELECTRIC)	RELEASE OF RIGHTS

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTERESTS REQUIRED	R/W SF REQUIRED NEW	EXISTING	TOTAL	TLE SF
2	CITY OF MADISON (PARKS YAHARA HILLS GOLF COURSE)	TLE	---	---	---	8174
9	VERNON J. RATHERT	FEE	5199	---	5199	---
11	C&L INVESTMENT PARTNERSHIP	ACCESS RIGHTS/ FEE/TLE	875586	---	875586	46495
12	LARRY G SKAAR	FEE	2103	---	2103	---

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I, KEVIN C. BOYER PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

SIGNATURE: Kevin C. Boyer DATE: 08/04/2021
PRINT NAME: KEVIN C. BOYER
REGISTRATION NUMBER: S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHWEST REGION.
SIGNATURE: Cory Schlagel DATE: 08/04/2021
PRINT NAME: CORY SCHLAGEL

FILE NAME : Y:\52XX\5275_DP.CTHAB.DAN\CADDS\30800126\SHEETSPLAN\TPP\040105-RP.DWG
APPRAISAL PLAT DATE : 07/14/2021
PLOT DATE : 8/4/2021 2:01 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:200 FT

3080-01-26-4.05

COMPOSITE DRAWING, ORIGINAL IS ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY, NAD83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 3, IN TRANSPORTATION PROJECT PLATS AS DOCUMENT NO. 5754659 FOR ADDITIONAL INFORMATION.

TRANSPORTATION PROJECT PLAT NO: 3080-01-26 - 4.05
EXTENSION SHEET

RELOCATION ORDER: USH 12, MADISON - CAMBRIDGE (CTH AB INTERCHANGE), DANE COUNTY

4

4

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE558	190+76.70 'EB'	1421.82'
TLE559	188+09.80 'EB'	272.53'
TLE560	188+35.58 'EB'	256.38'
TLE561	191+11.23 'EB'	317.29'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
500	186+61.20 'EB'	0.00'
501	206+86.95 'EB'	0.00'
502	212+00.40 'EB'	0.00'
503	208+69.87 'EB'	173.03'
PRW504	207+51.94 'EB'	203.57'
PRW505	207+16.97 'EB'	212.63'
PRW506	205+52.54 'EB'	315.64'
PRW507	203+78.87 'EB'	475.12'
PRW508	201+55.98 'EB'	331.44'
530	187+34.05 'EB'	230.32'
PRW531	188+07.74 'EB'	181.70'
PRW532	192+46.12 'EB'	327.66'
PRW533	194+38.88 'EB'	360.37'
PRW542	187+77.26 'EB'	216.66'
IP2055	212+00.40 'EB'	152.24'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP2046	470222.675	857903.110	3/4" REBAR DOT CAP
IP2047	470298.218	858008.027	3/4" REBAR DOT CAP
IP2048	470026.458	858897.575	3/4" REBAR DOT CAP
IP2049	469827.861	858976.684	3/4" REBAR DOT CAP
IP2050	469807.369	859039.388	3/4" REBAR DOT CAP
IP2051	469878.501	859201.142	3/4" REBAR DOT CAP
IP2052	469877.518	859200.426	1.5" IP
IP2053	469668.277	859449.705	1.25" IP
IP2054	469684.825	859798.281	3/4" REBAR DOT CAP
IP2055	469505.834	860239.323	3/4" REBAR DOT CAP
IP2257	468787.490	857893.531	1.0" IP
IP2258	468787.861	857898.948	1.25" IP
IP2259	469815.627	859006.301	1.25" IP
IP2260	469825.819	858974.904	1.0" IP
IP2261	469805.480	859037.659	1.0" IP
IP2262	469830.500	859094.434	1.0" IP
IP2263	470026.613	858894.476	1.25" IP
IP2264	469684.576	859796.989	1.25" IP
IP2265	469636.677	859914.953	1.25" IP
IP2266	469629.194	859796.691	1.0" IP
IP2270	470227.002	857909.161	1.25" IP

COURSE TABLE		
COURSE	BEARING	DISTANCE
500-501	S72° 02' 15"E	2025.75'
501-502	S72° 02' 15"E	513.45'
502-IP2055	S17° 57' 45"W	152.24'
IP2055-PRW503	N75° 38' 08"W	331.19'
PRW503-PRW504	N86° 33' 34"W	121.82'
PRW504-PRW505	N86° 33' 34"W	36.12'
PRW505-PRW506	S75° 53' 51"W	194.03'
PRW506-PRW507	S65° 24' 01"W	235.78'
PRW507-PRW508	N39° 13' 49"W	265.19'
PRW508-PRW509	S88° 13' 02"W	382.96'
PRW509-PRW510	S45° 40' 35"W	348.17'
PRW510-PRW511	S48° 26' 40"W	219.96'
PRW511-PRW512	S43° 36' 05"W	203.26'
PRW512-PRW513	N74° 41' 59"W	65.87'
PRW513-PRW514	S56° 01' 26"W	98.19'
PRW514-PRW515	S53° 08' 42"W	72.87'
PRW515-PRW516	S33° 20' 18"W	143.32'
PRW516-PRW517	S16° 02' 54"W	132.08'
PRW517-PRW518	S09° 45' 35"W	185.67'
PRW518-PRW519	N89° 22' 08"W	12.16'
PRW519-520	N89° 22' 08"W	34.08'
520-521	N89° 22' 08"W	3.77'
521-522	N89° 22' 08"W	28.99'
522-523	N00° 26' 11"E	912.34'
523-524	N88° 09' 18"E	32.39'
524-530	N00° 24' 41"E	679.63'
530-500	N00° 24' 41"E	241.57'

COURSE TABLE		
COURSE	BEARING	DISTANCE
500-530	S00° 24' 41"W	241.57'
530-PRW542	S89° 35' 19"E	45.32'
PRW542-PRW531	N59° 02' 59"E	46.37'
PRW531-PRW532	S53° 37' 21"E	462.04'
PRW532-PRW533	S62° 24' 21"E	195.52'
PRW533-PRW534	S28° 20' 50"E	57.70'
PRW534-PRW535	S32° 33' 47"W	189.22'
PRW535-PRW536	S46° 06' 29"W	145.64'
PRW536-PRW537	S86° 05' 49"W	57.22'
PRW537-PRW538	N51° 59' 55"W	173.39'
PRW538-PRW539	N43° 52' 29"W	162.87'
PRW539-PRW540	N17° 22' 40"W	150.24'
PRW540-PRW541	N08° 58' 19"W	144.22'
PRW541-PRW542	N12° 15' 12"W	149.29'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE550	509+35.02 'NB'	121.83'
TLE551	509+09.20 'NB'	297.96'
TLE552	508+09.35 'NB'	303.33'
TLE554	500+14.82 'NB'	-55.00'
TLE555	502+78.04 'NB'	-42.48'
TLE556	502+95.15 'NB'	-69.37'
TLE557	503+57.35 'NB'	-68.88'
TLE562	511+56.31 'NB'	-148.04'
TLE563	510+42.02 'NB'	-247.01'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
PRW509	515+39.85 'NB'	93.15'
PRW510	511+92.35 'NB'	114.96'
PRW511	509+72.42 'NB'	118.12'
PRW512	507+70.16 'NB'	138.19'
PRW513	507+33.35 'NB'	83.56'
PRW514	506+35.84 'NB'	72.00'
PRW515	505+63.14 'NB'	67.08'
PRW516	504+25.33 'NB'	106.41'
PRW517	501+98.14 'NB'	79.46'
PRW518	500+14.82 'NB'	50.00'
PRW519	500+14.82 'NB'	37.84'
520	500+14.82 'NB'	3.77'
521	500+14.82 'NB'	0.00'
522	500+14.82 'NB'	-28.99'
523	507+12.87 'NB'	-442.10'
524	507+38.08 'NB'	-421.76'
PRW534	514+27.97 'NB'	-207.42'
PRW535	512+46.74 'NB'	-153.03'
PRW536	511+01.31 'NB'	-145.00'
PRW537	510+55.51 'NB'	-179.30'
PRW538	510+21.64 'NB'	-349.35'
PRW539	510+12.71 'NB'	-511.97'
PRW540	510+72.27 'NB'	-649.90'
PRW541	511+48.18 'NB'	-772.52'

TPP NUMBER 3080-01-26-4.05
SHEET 2 OF 3
567

EB TO NB EXIT RAMP

WISDOT ITS - FIBER

USH 12/18 EB

115'EB' 116'EB' USH 12/18 EB 118'EB' 120'EB' 122'EB' 124

BEGIN EB CONSTRUCTION
STA 118+58.73'EB'
MATCH EXISTING PAVEMENT
SAWCUT REQUIRED

WISDOT ITS - FIBER

BEGIN PROJECT 3080-01-76
STA 122+46.27'EB'
MATCH EXISTING PAVEMENT
SAWCUT REQUIRED

DELINEATED WETLANDS (TYP)

N

MATCH LINE 124+00'EB'

WISDOT ITS - FIBER

NB TO EB EXIT RAMP

SCHULEBURG & DAUGHTER ENTERPRISES II LLC

SLOPE INTERCEPT (TYP)

S-13-569 REQ'D (SEE STRUCTURE PLANS)

B 569-1

EXISTING R/W (TYP)

RELIEF TRENCH (TYP)

PROPOSED R/W (TYP)

TLE (TYP)

COMMERCIAL PROPERTIES ASSOCIATES LLP

LEANNE H STARR SRVRS TR

1/16 LINE (TYP)

PROPERTY LINE (TYP)

5

5

885 880 875 870 865 860 855 850

EXISTING GROUND AT REF LINE

-0.30%

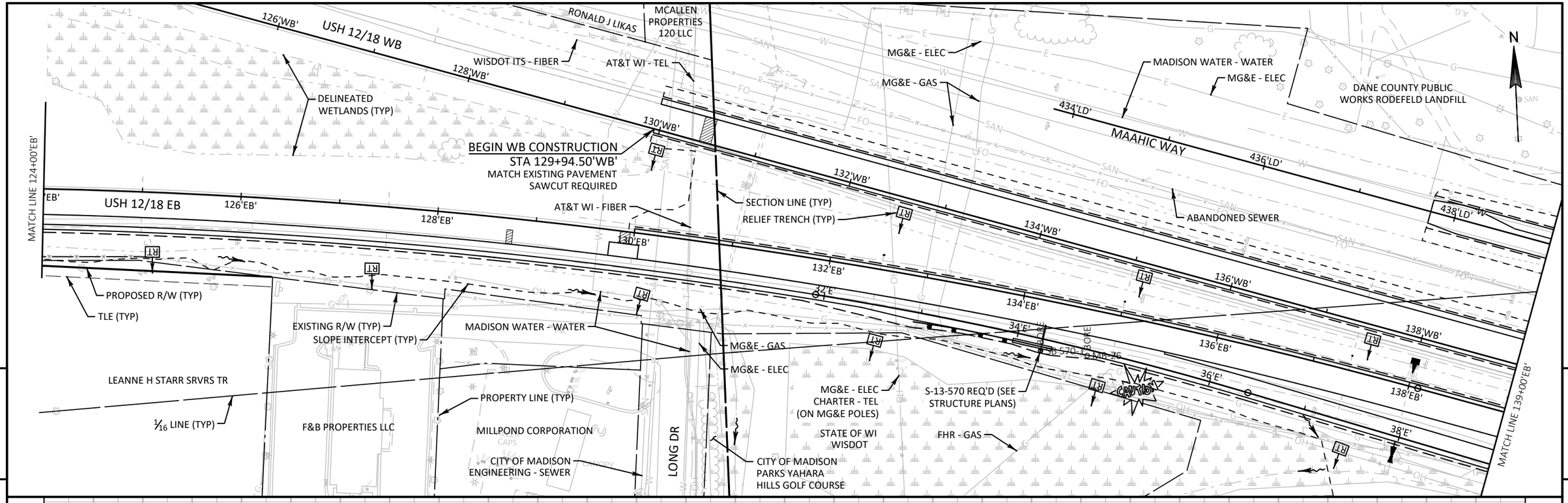
SPECIAL DITCH PROFILE RT

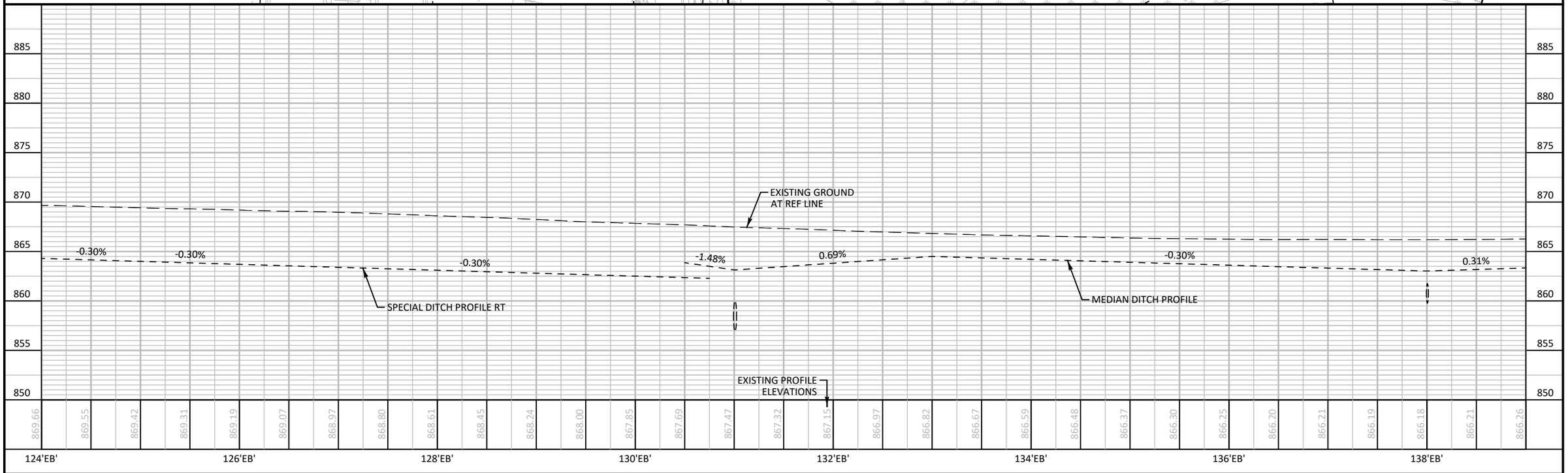
EXISTING PROFILE ELEVATIONS

872.63 872.47 872.29 872.15 871.98 871.78 871.60 871.42 871.23 871.01 870.77 870.52 870.26 870.03 869.90 869.77 869.66

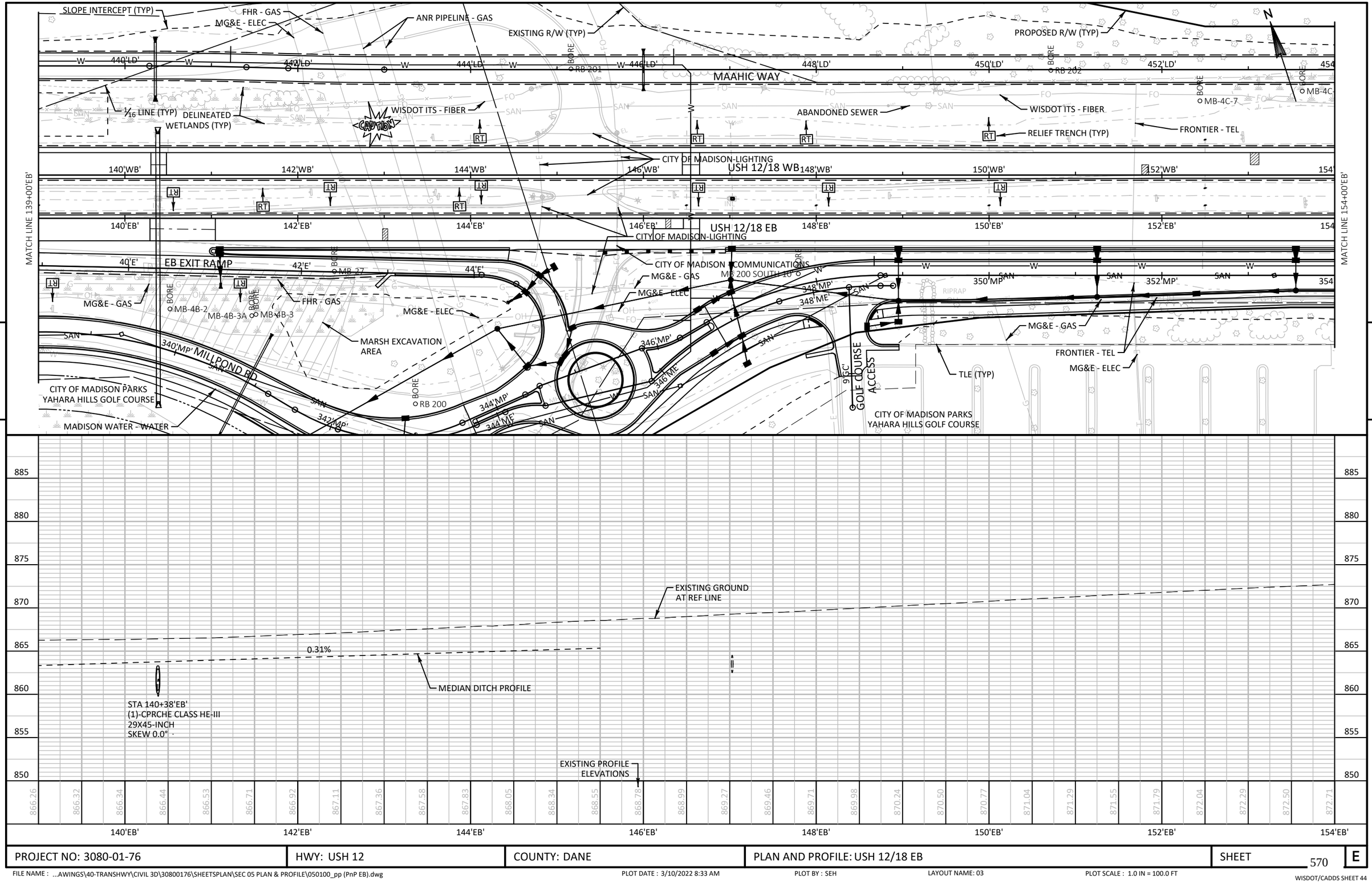
110'EB' 112'EB' 114'EB' 116'EB' 118'EB' 120'EB' 122'EB' 124'EB'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12/18 EB	SHEET 568	E



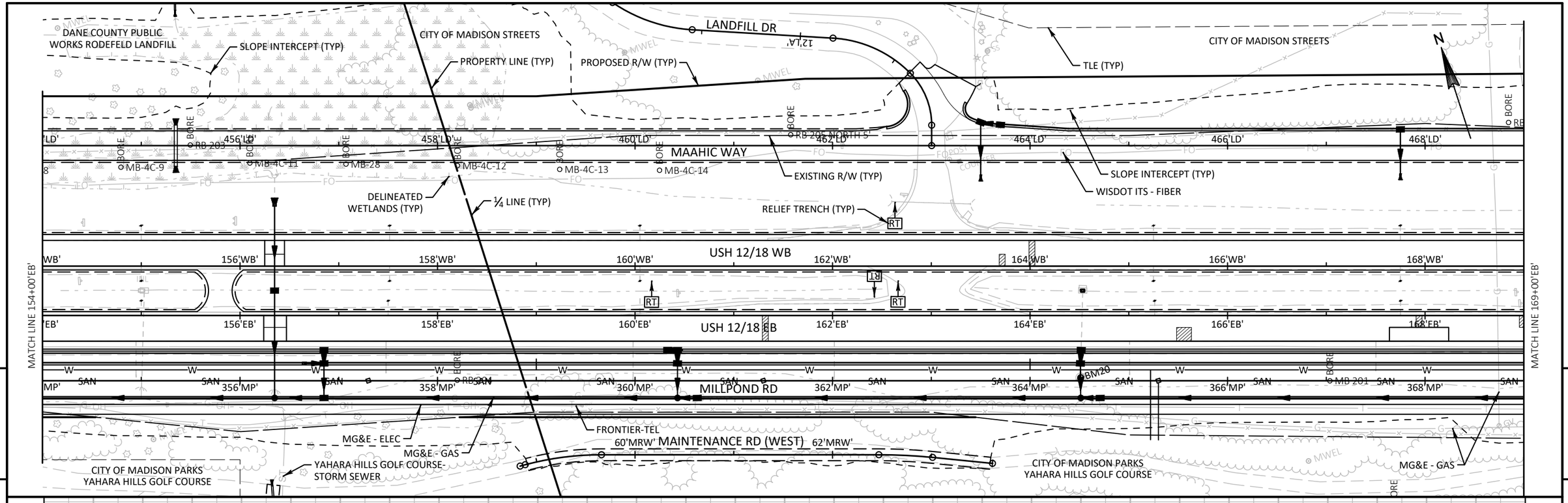


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12/18 EB	SHEET 569	E

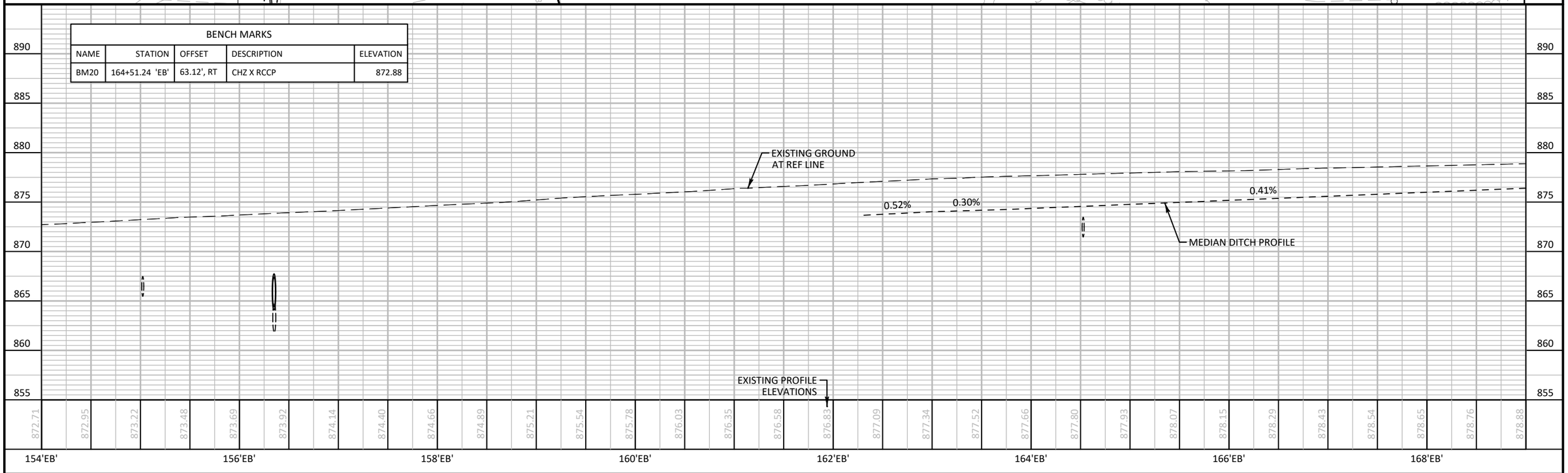


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12/18 EB	SHEET 570	E

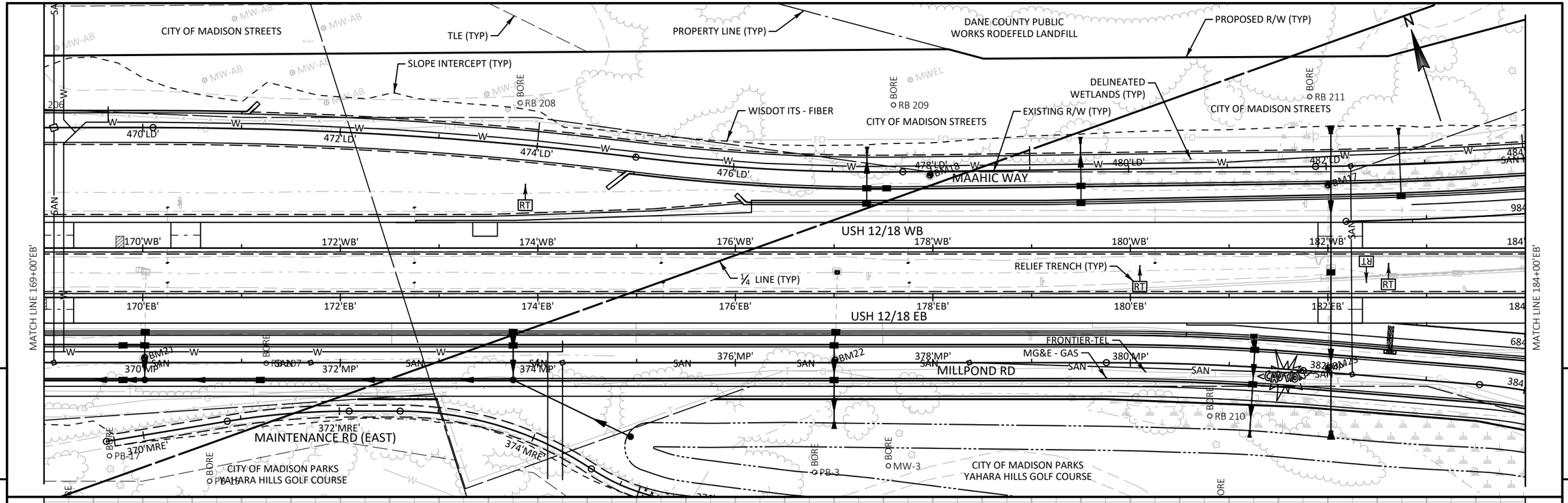
FILE NAME : ...AWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 05 PLAN & PROFILE\050100_pp (PnP EB).dwg
PLOT DATE : 3/10/2022 8:33 AM
PLOT BY : SEH
LAYOUT NAME: 03
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 44



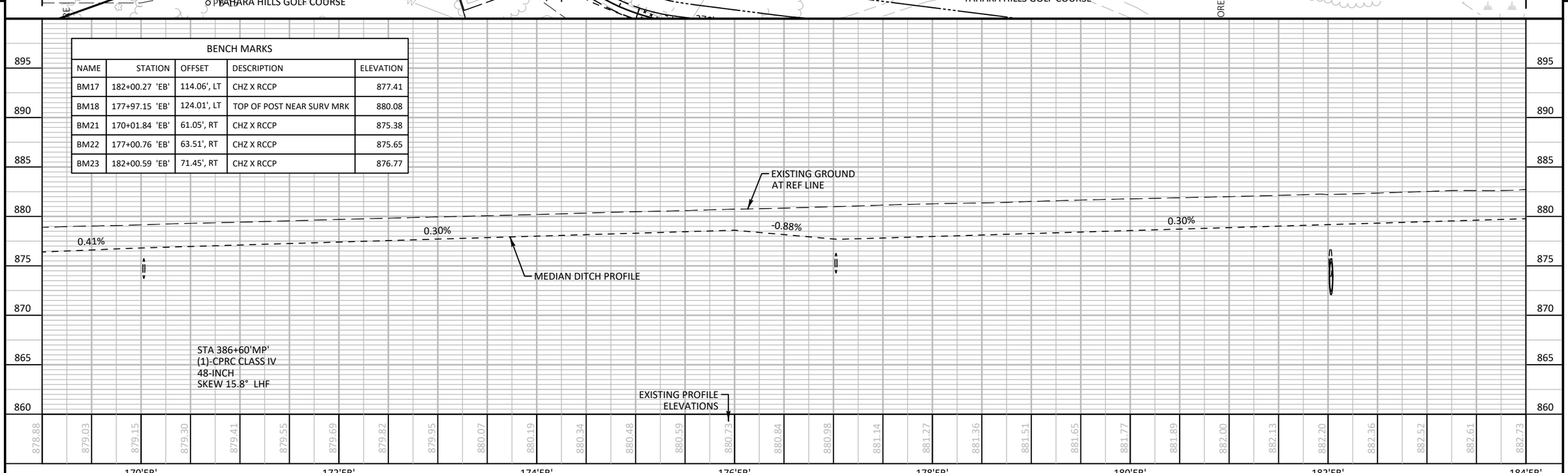
BENCH MARKS				
NAME	STATION	OFFSET	DESCRIPTION	ELEVATION
BM20	164+51.24 'EB'	63.12', RT	CHZ X RCCP	872.88



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12/18 EB	SHEET 571	E



BENCH MARKS				
NAME	STATION	OFFSET	DESCRIPTION	ELEVATION
BM17	182+00.27 'EB'	114.06', LT	CHZ X RCCP	877.41
BM18	177+97.15 'EB'	124.01', LT	TOP OF POST NEAR SURV MRK	880.08
BM21	170+01.84 'EB'	61.05', RT	CHZ X RCCP	875.38
BM22	177+00.76 'EB'	63.51', RT	CHZ X RCCP	875.65
BM23	182+00.59 'EB'	71.45', RT	CHZ X RCCP	876.77



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12/18 EB	SHEET 572	E

MATCH LINE 184+00'EB'

MATCH LINE 199+00'EB'

5

5

WISDOT ITS - FIBER

TP 200 9

BORE

W MAAHIC WAY

BORE

SAB'ELD'

PONDTP 1

PONDTP 2

IF HEST TP-2

22'AB

BORE

RB 213

534'NB'

CTH AB

TP BORE

POND EX-N

STORM WATER POND

COPART OF CONNECTICUT INC

BORE

RB 216

994'D'

996'D'

END CONSTRUCTION
PROJECT 3080-01-76
BEGIN CONSTRUCTION
PROJECT 3080-01-75
STA 996+03.33'D'

R-13-371 (SEE PROJECT 3080-01-75)

CTH AB 12'NRR'

N

ALLIANT ENERGY - ELEC

992'D'

WB ENTRANCE RAMP

990'D'

FRONTIER-TEL

FRONTIER - FIBER

ALLIANT ENERGY - GAS

BM16

BM14

988'D'

986'D'

RELIEF TRENCH (TYP)

RT

BORE

SB 893-1

ALLIANT ENERGY - ELEC

186'WB'

188'WB'

190'WB'

USH 12/18 WB

192'WB'

194'WB'

196'WB'

198'WB'

22'SB'

22'NB'

SB 893-2

SB 893-3

186'EB'

188'EB'

190'EB'

USH 12/18 EB

192'EB'

194'EB'

196'EB'

198'EB'

MW-AB

20'AB

686'A'

688'A'

690'A'

692'A'

EXISTING R/W (TYP)

POND EX-S

FRONTIER-TEL

ALLIANT ENERGY - ELEC

DELINEATED
WETLANDS (TYP)

C&L INVESTMENT
PARTNERSHIP

R-13-370 (SEE PROJECT 3080-01-75)

B-13-893 (SEE PROJECT 3080-01-75)

BM4

ALLIANT ENERGY - ELEC

MG&E - GAS

186'MP'

MILLPO

22'AB

FRONTIER-TEL

RB 214

ALLIANT ENERGY - ELEC

PROPOSED R/W (TYP)

EB EXIT RAMP

CTH AB

BM15

BENCH MARKS				
NAME	STATION	OFFSET	DESCRIPTION	ELEVATION
BM4	198+85.30 'EB'	55.68', RT	DIVOT ON CMCP	880.47
BM12	198+49.90 'EB'	111.03', LT	CHZ X RCCP	879.15
BM14	193+96.49 'EB'	152.62', LT	SPIKE IN POLE	885.11
BM16	187+70.24 'EB'	144.80', LT	SPIKE IN 1ST POLE E OF AB	879.14

900
895
890
885
880
875
870
865

EXISTING GROUND
AT REF LINE

0.30%

0.30%

0.51%

0.50%

-0.20%

-0.34%

-0.57%

MEDIAN DITCH PROFILE

SPECIAL DITCH
PROFILE RT

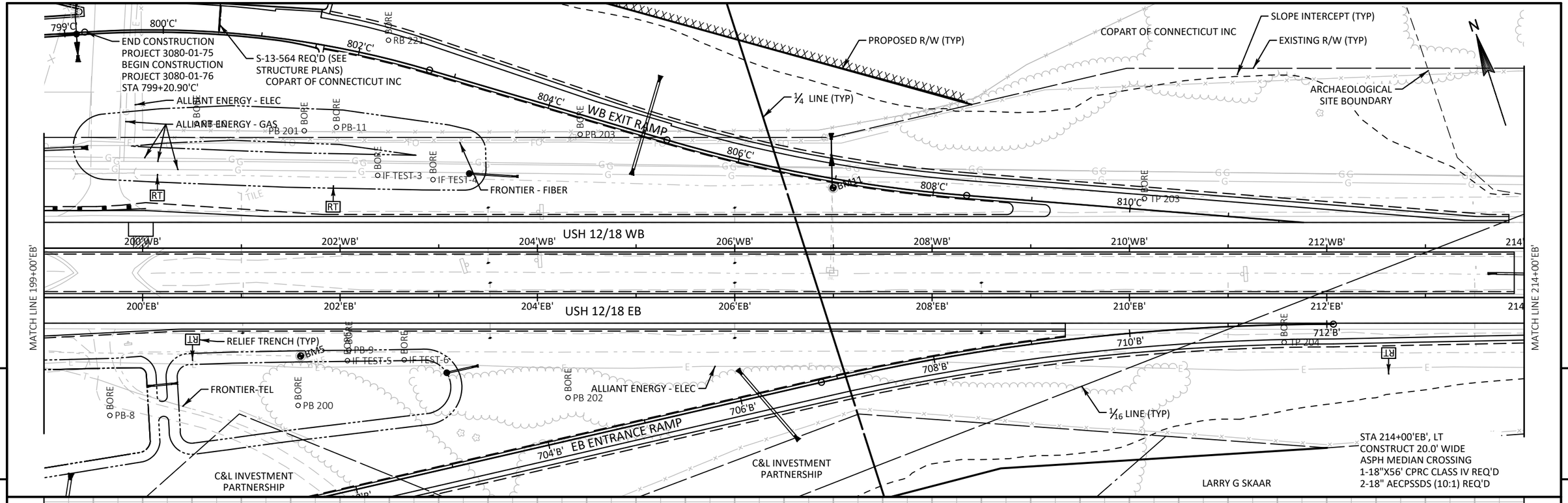
STA 187+00'EB'
(1)-CPRC CLASS III
48-INCH
SKEW 0.0° LHF

EXISTING PROFILE
ELEVATIONS

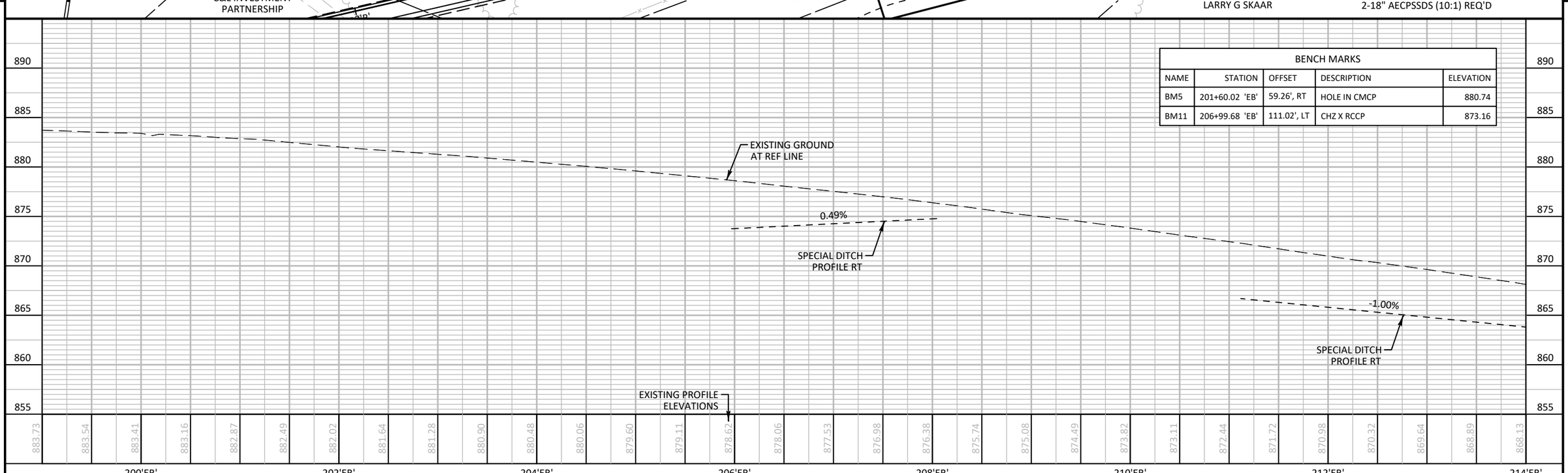
882.73 882.86 882.99 883.17 883.27 883.43 883.46 883.54 883.60 883.75 883.87 883.99 884.13 884.23 884.33 884.46 884.61 884.60 884.64 884.73 884.76 884.80 884.76 884.71 884.68 884.58 884.47 884.28 884.15 883.91 883.73

184'EB' 186'EB' 188'EB' 190'EB' 192'EB' 194'EB' 196'EB' 198'EB'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12/18 EB	SHEET 573	E

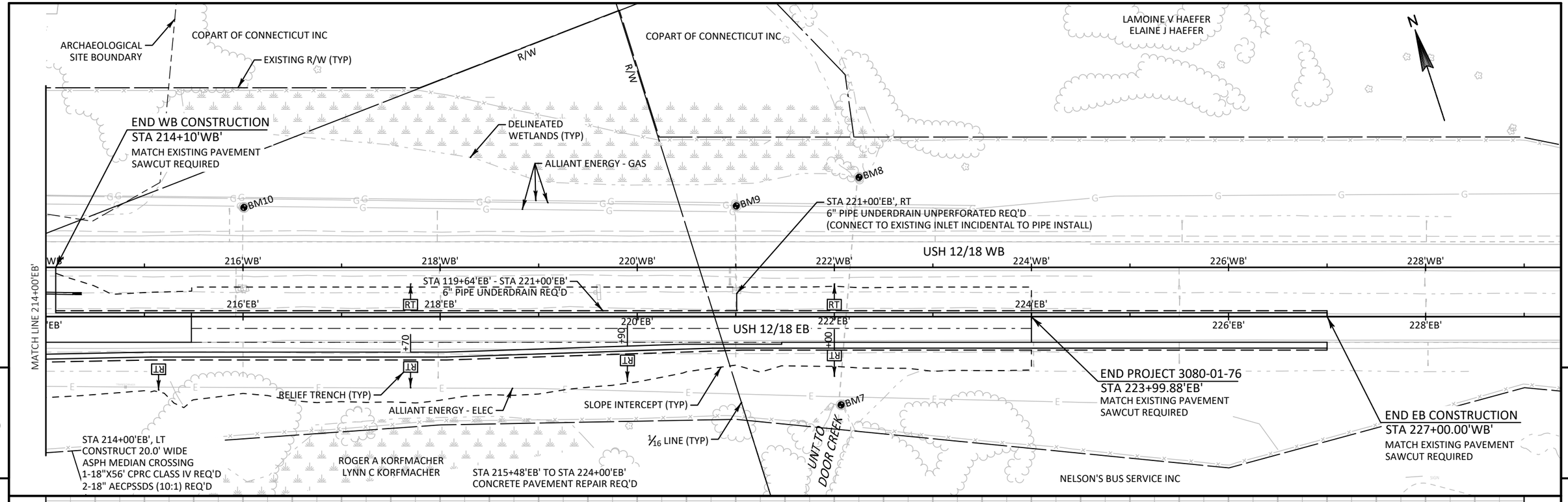


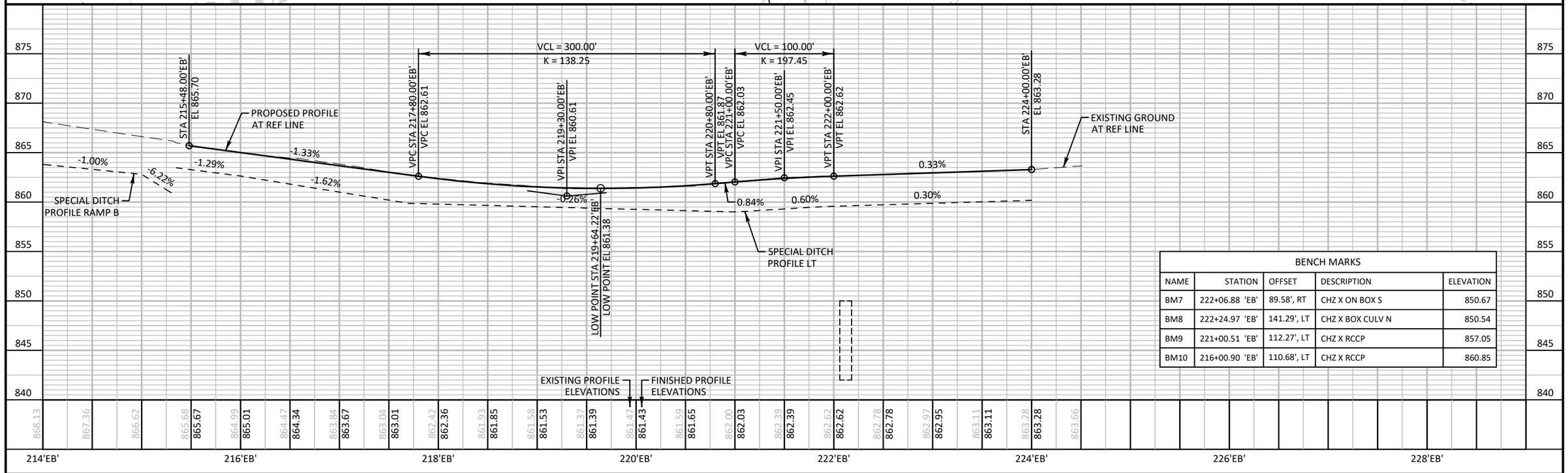
BENCH MARKS				
NAME	STATION	OFFSET	DESCRIPTION	ELEVATION
BM5	201+60.02 'EB'	59.26', RT	HOLE IN CMCP	880.74
BM11	206+99.68 'EB'	111.02', LT	CHZ X RCCP	873.16



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12/18 EB	SHEET 574	E

FILE NAME : ...AWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 05 PLAN & PROFILE\050100_pp (PnP EB).dwg
PLOT DATE : 3/10/2022 8:34 AM
PLOT BY : SEH
LAYOUT NAME: 07
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 44





BENCH MARKS				
NAME	STATION	OFFSET	DESCRIPTION	ELEVATION
BM7	222+06.88 'EB'	89.58', RT	CHZ X ON BOX S	850.67
BM8	222+24.97 'EB'	141.29', LT	CHZ X BOX CULV N	850.54
BM9	221+00.51 'EB'	112.27', LT	CHZ X RCCP	857.05
BM10	216+00.90 'EB'	110.68', LT	CHZ X RCCP	860.85

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12/18 EB	SHEET 575	E

DANE COUNTY PUBLIC WORKS RODEFELD LANDFILL

WISDOT - FIBER

ALLIANT ENERGY - ELEC

RAMP 'D'

PROPOSED WATERMAIN

PROPOSED SANITARY

USH 12/18 WB

S-13-571 (SEE STRUCTURE PLANS)

172'EB' 174'EB' 176'EB' 178'EB' 180'EB' 182'EB' 184'EB' 186'EB'

FRONTIER - TELE

USH 12/18 EB

682'A' 684'A' 686'A'

RAMP 'A'

BM 22

CAUTION

MILLPOND RD

BM 23

MG&E - GAS

FRONTIER - TELE

PROPOSED SANITARY

EXISTING R/W

SLOPE INTERCEPT

YAHARA HILLS - IRRIGATION

YAHARA HILLS - 1 - ELEC 1 - IRRIGATION

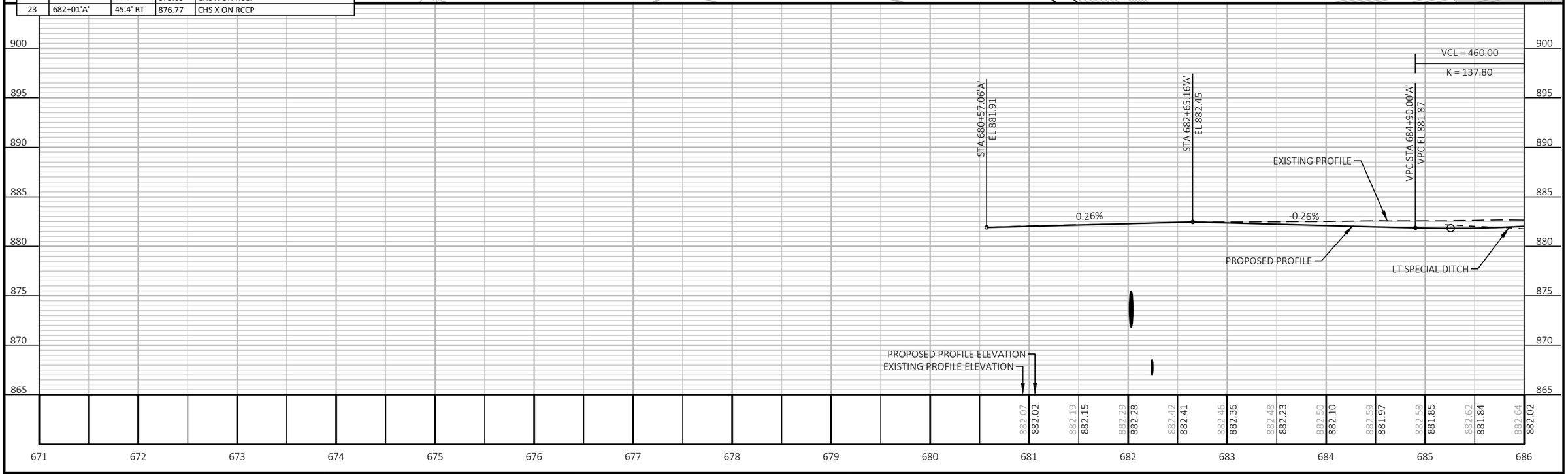
YAHARA HILLS - STORM SEWER

DELINEATED WETLANDS (TYP)

CITY OF MADISON PARKS YAHARA HILLS GOLF COURSE

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
22	177+01'EB'	63.5' RT	875.65	CHS X ON RCCP
23	682+01'A'	45.4' RT	876.77	CHS X ON RCCP

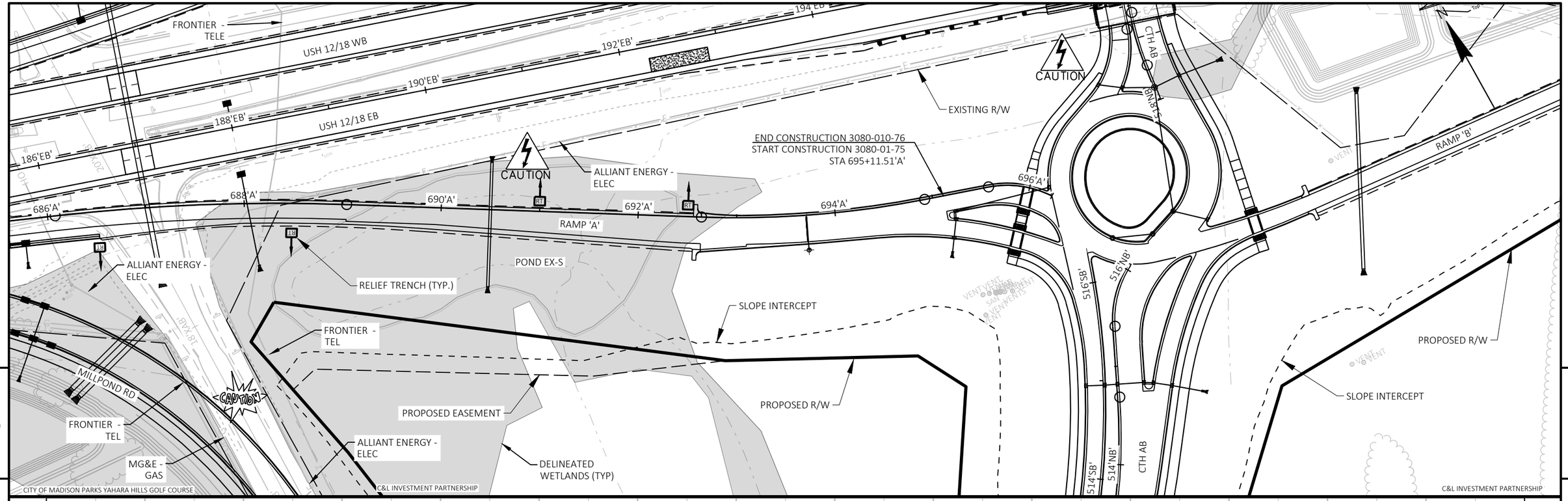


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: RAMP A (EB EXIT RAMP)	SHEET 576	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050101_PP_RAMP A (EB EXIT).DWG
LAYOUT NAME - 01

PLOT DATE : 2/1/2022 12:27 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

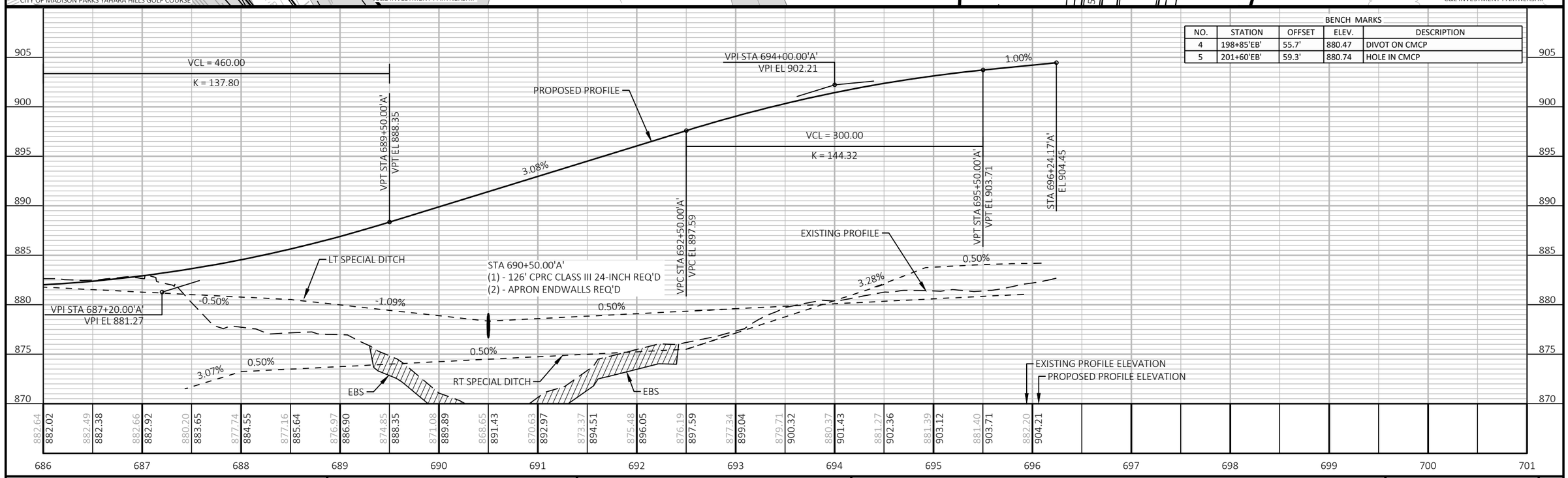


5

5

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
4	198+85'EB'	55.7'	880.47	DIVOT ON CMCP
5	201+60'EB'	59.3'	880.74	HOLE IN CMCP

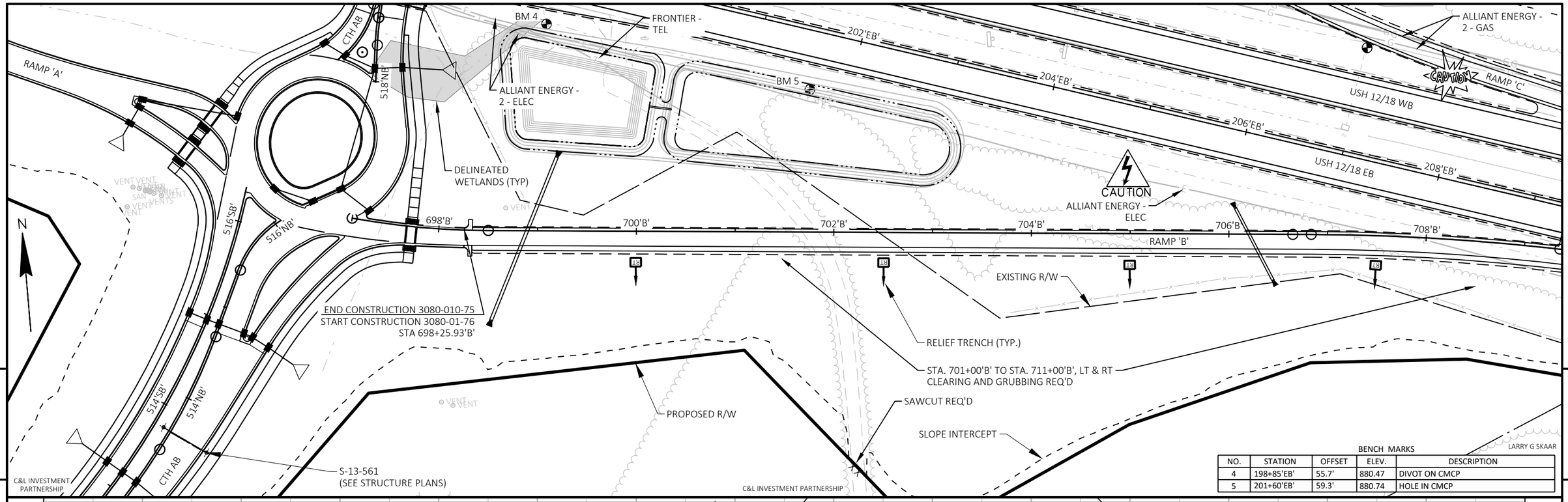


PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: RAMP A (EB EXIT RAMP)	SHEET 577	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050101_PP_RAMP A (EB EXIT).DWG
LAYOUT NAME - 02

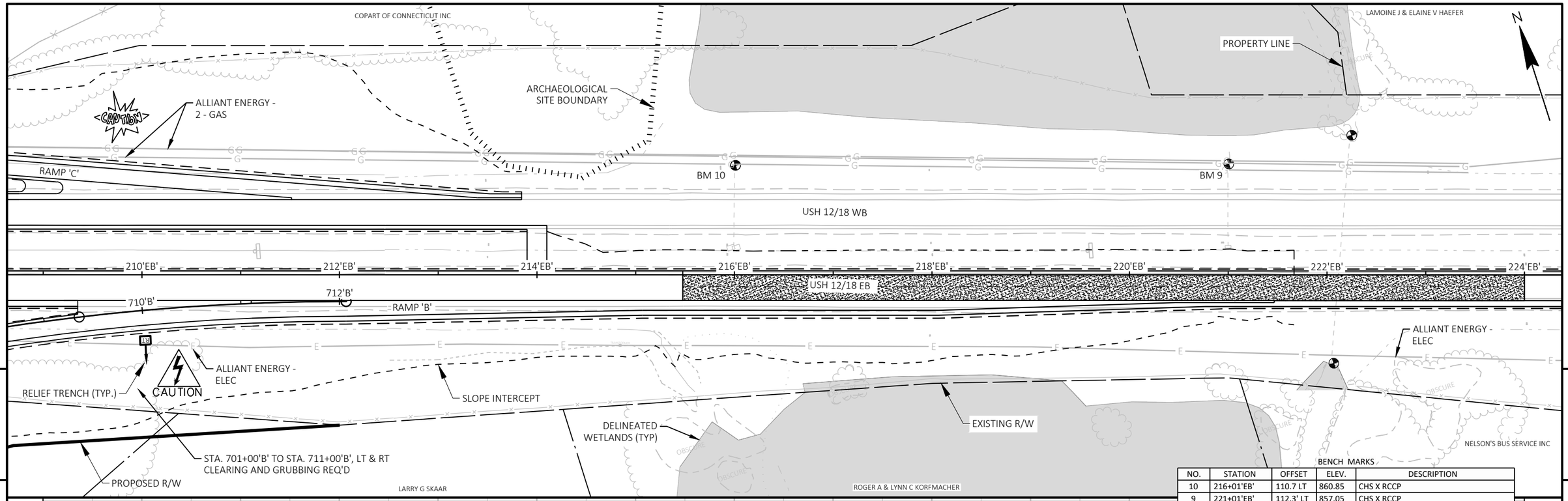
PLOT DATE : 2/1/2022 12:27 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



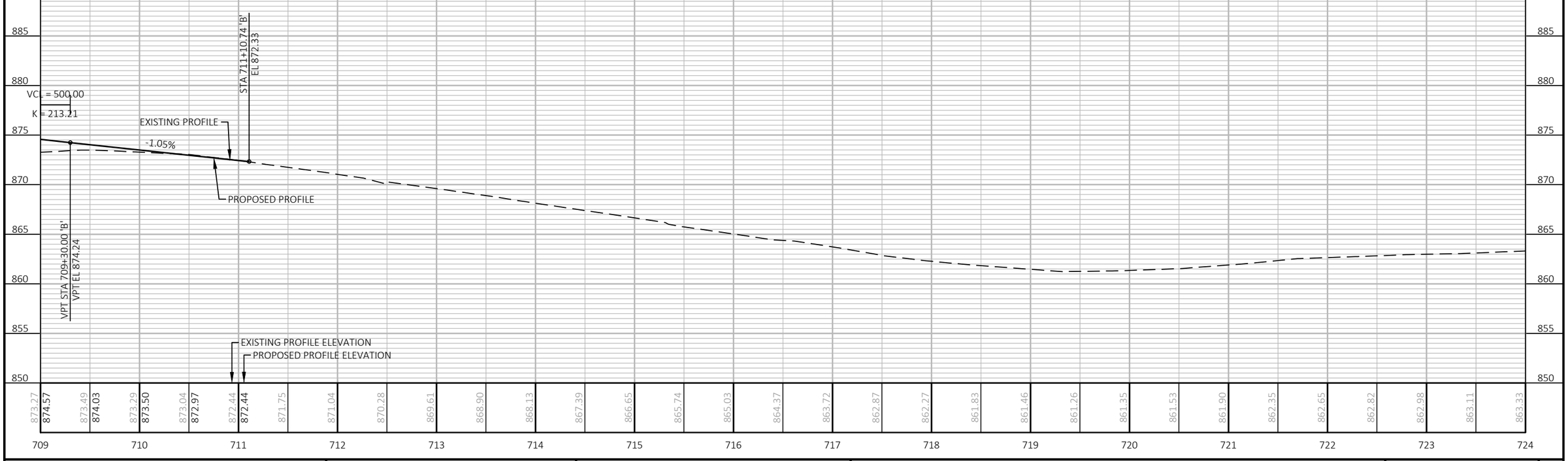
PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: RAMP B (EB ENTRANCE RAMP)	SHEET 578	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050102_PP_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - 01
PLOT DATE : 1/28/2022 3:30 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
10	216+01'EB'	110.7 LT	860.85	CHS X RCCP
9	221+01'EB'	112.3' LT	857.05	CHS X RCCP



PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: RAMP B (EB ENTRANCE RAMP)	SHEET 579	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050102_PP_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - 02

PLOT DATE : 1/28/2022 3:31 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

COPART OF CONNECTICUT INC

END CONSTRUCTION 3080-010-75
START CONSTRUCTION 3080-01-76
STA 799+20.90'C'

SAWCUT REQ'D

PROPOSED R/W

STA. 807+00'C' TO STA. 812+00'C', LT
CLEARING AND GRUBBING REQ'D

ALLIANT ENERGY - GAS

S-13-564
(SEE STRUCTURE PLANS)

RELIEF TRENCH(TYP.)

SLOPE INTERCEPT

ALLIANT ENERGY - 2 - GAS

EXISTING R/W

FRONTIER - FIBER

ALLIANT ENERGY - 2 - GAS 1 - ELEC

CAUTION

RAMP 'C'

RAMP 'D'

RAMP 'B'

CTH AB

USH 12/18 WB

USH 12/18 EB

BM 11

BM 12

FRONTIER - TEL

ALLIANT ENERGY - 1 - ELEC

LARRY G SKAAR

526'NB'
526'SB'
524'SB'
524'NB'

800'C' 802'C' 804'C' 806'C' 808'C' 810'C'

196'WB' 198'WB' 200'WB' 202'WB' 204'WB' 206'WB' 208'WB' 210'WB'

5 5

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
12	798+40'C'	153.6' RT	879.15	CHS X RCCP
11	806+99'C'	9.2' RT	873.16	CHS X RCCP

N

-1.10%

VPI STA 800+00.00'C'
VPI EL 902.21

PROPOSED PROFILE

-3.97%

STA 798+04.80 'C'
EL 904.36

VPI STA 798+50.00 'C'
VPC EL 903.86

VPT STA 801+50.00 'C'
VPT EL 896.26

VPC STA 804+25.00 'C'
VPC EL 885.35

K = 146.14
VCL = 450.00

EXISTING PROFILE

VPT STA 808+75.00 'C'
VPT EL 874.43

VPC STA 809+35.00 'C'
VPC EL 873.90

VCL = 350.00
K = 599.81

REMOVE PARKING LOT
ASPHALTIC PAVEMENT

-1.39%

-0.50%

-2.41%

-0.50%

1.40%

0.50%

-0.89%

-1.31%

-0.50%

VCL = 300.00
K = 104.65

LT SPECIAL DITCH

RT SPECIAL DITCH

EXISTING PROFILE ELEVATION
PROPOSED PROFILE ELEVATION

STA 805+00.00'C'
(1) - 92' CPRC CLASS III 24-INCH REQ'D
(2) - APRON ENDWALLS REQ'D

VPI STA 806+50.00'C'
VPI EL 876.43

900 895 890 885 880 875 870 865

795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810
			887.66	903.86	885.27	903.19	883.30	902.29	882.29	901.14	881.78	899.75	881.78	898.13	882.97	896.26	884.65	894.28	886.06	892.30	887.01	890.31	887.80	888.33	888.40	886.35	888.67	884.38	887.84	882.57	885.07	880.93	880.18	879.46	875.35	878.16	871.82	877.03	871.98	876.08	873.30	875.29	872.39	874.68	872.62	874.21	872.74	873.76	872.69	873.29

PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: RAMP C (WB EXIT RAMP)	SHEET 580	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050103_PP_RAMP C (WB EXIT).DWG
LAYOUT NAME - 01

PLOT DATE : 1/28/2022 3:33 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

STA. 807+00'C' TO STA. 812+00'C', LT
CLEARING AND GRUBBING REQ'D

SLOPE INTERCEPT

COPART OF CONNECTICUT INC

EXISTING R/W

LAMOINE J & ELAINE V HAEFER

PROPERTY LINE

ARCHAEOLOGICAL SITE BOUNDARY

ALLIANT ENERGY - 2 - GAS

CAUTION

RELIEF TRENCH (TYP.)

BM 10

BM 9

BM 8

810'C'

RAMP 'C'

812'C'

210'WB' 212'WB' 214'WB' USH 12/18 WB 6'WB' 218'WB' 220'WB' 222'WB' 224'WB'

USH 12/18 EB

RAMP 'B'

ALLIANT ENERGY - ELEC

CAUTION

ALLIANT ENERGY - ELEC

SLOPE INTERCEPT

DELINEATED WETLANDS (TYP)

PROPOSED R/W

LARRY G SKAAR

ROGER A & LYNN C KORFMACHER

NELSON'S BUS SERVICE INC

5

5

N

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
10	216+01'WB'	60.7' LT	860.85	CHS X RCCP
9	221+01'WB'	62.3' LT	857.05	CHS X RCCP
8	222+25'WB'	91.3' LT	850.54	CHS X BOX CULV N

VPI STA 811+10.00'C'
VPI EL 872.35

VPT STA 812+85.00 'C'
VPT EL 869.77

STA 813+84.53 'C'
EL 868.31

EXISTING PROFILE

-0.50%

-1.47%

-1.10%

LT SPECIAL DITCH

PROPOSED PROFILE

VCL = 350.00

K = 599.81

EXISTING PROFILE ELEVATION

PROPOSED PROFILE ELEVATION

885 880 875 870 865 860 855 850

872.69	872.43	872.24	871.63	870.93	870.20	869.45	868.71
873.29	872.77	872.21	871.61	870.96	870.28	869.55	868.82

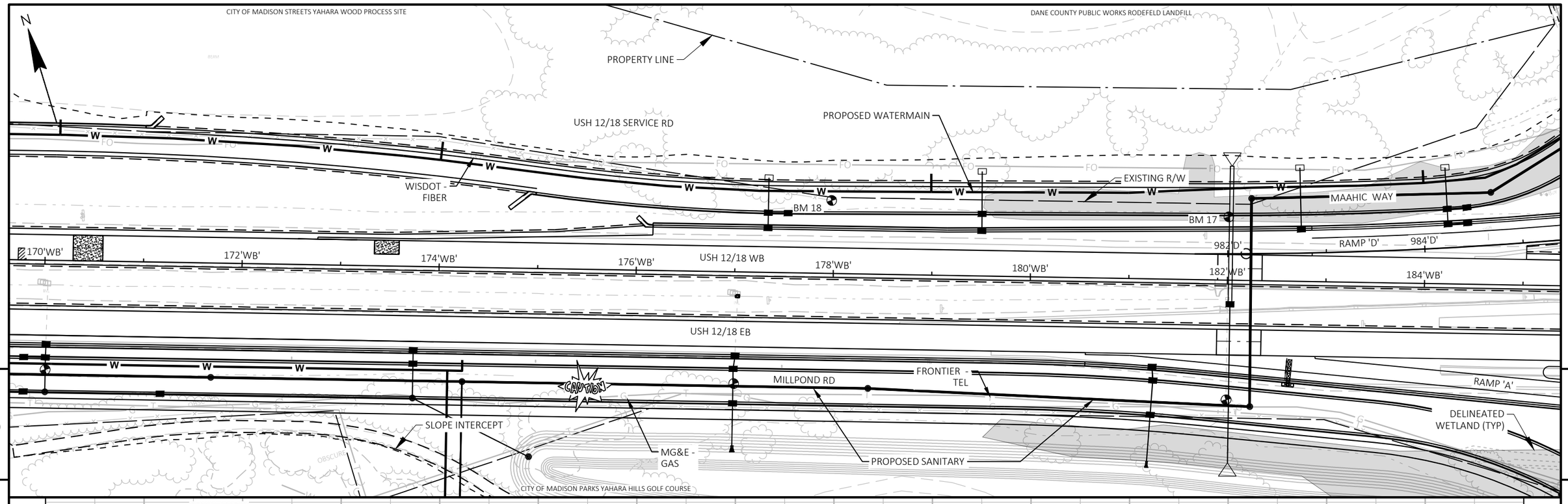
810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: RAMP C (WB EXIT RAMP)	SHEET 581	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050103_PP_RAMP C (WB EXIT).DWG
LAYOUT NAME - 02

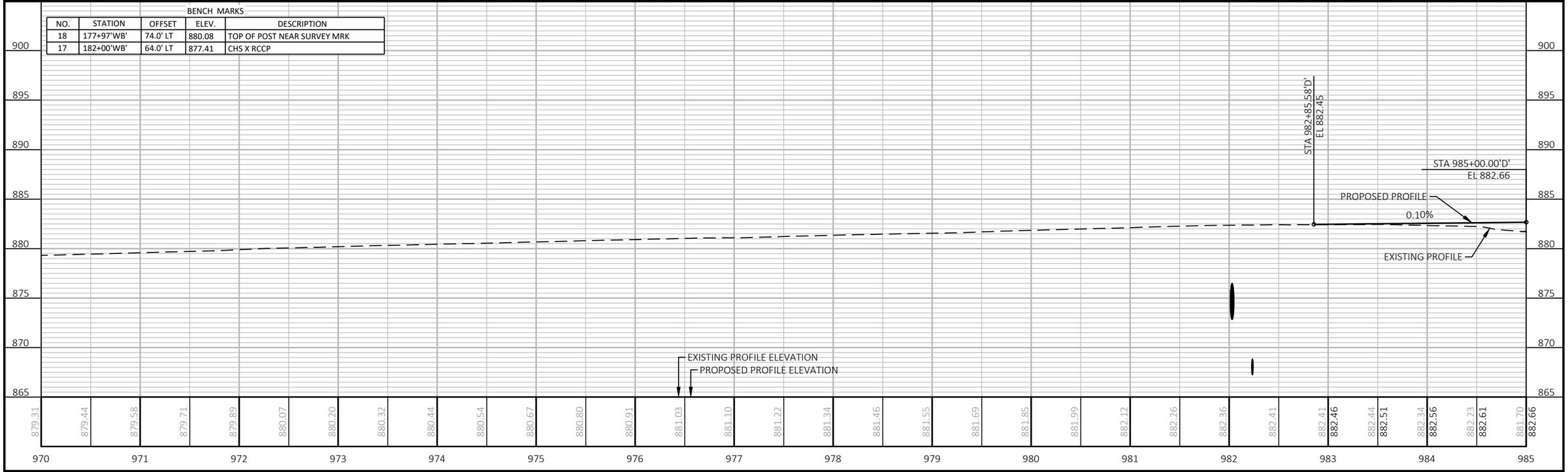
PLOT DATE : 1/28/2022 3:33 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
18	177+97'WB'	74.0' LT	880.08	TOP OF POST NEAR SURVEY MRK
17	182+00'WB'	64.0' LT	877.41	CHS X RCCP



PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: RAMP D (WB ENTRANCE RAMP)	SHEET 582	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050104_PP_RAMP D (WB ENTRANCE).DWG
LAYOUT NAME - 01

PLOT DATE : 2/1/2022 12:31 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

DANE COUNTY PUBLIC WORKS
RODEFELD LANDFILL

PROPERTY LINE

WISDOT - FIBER

WISDOT - FIBER

MAAHIC WAY

CTH AB

COUNTY POND

FRONTIER - 2 - FIBER 1 - TEL

DELINEATED WETLAND (TYP)

SLOPE INTERCEPT

PROPOSED EASEMENT

DANE COUNTY

PROPOSED R/W

COPART OF CONNECTICUT INC

DIRT PILE

N

ALLIANT ENERGY - ELEC

BM 16

986'D'

988'D'

990'D'

RAMP 'D'

992'D'

994'D'

996'D'

POND EX-N

STORM WATER POND

RELIEF TRENCH (TYP.)

S-13-565
(SEE STRUCTURE PLANS)

CTH AB

526'NB'

528'NB'

526'SB'

530'NB'

532'NB'

534'NB'

536'NB'

524'SB'

524'NB'

ALLIANT ENERGY - GAS

EXISTING R/W

FRONTIER - 1 - FIBER 1 - TEL

END CONSTRUCTION 3080-010-76
START CONSTRUCTION 3080-01-75
STA 996+03.31'D'

ALLIANT ENERGY - 2 - GAS

BM 14

FRONTIER - 1 - TEL

186'WB'

188'WB'

190'WB'

192'WB'

194'WB'

USH 12/18 WB

USH 12/18 EB

FRONTIER - 1 - TEL

RAMP 'A'

ALLIANT ENERGY - ELEC

CAUTION

CTH AB

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
16	987+76'D'	18.0' LT	879.14	SPIKE IN 1ST POLE E/O CTH AB
14	993+93'D'	85.1' RT	885.11	SPIKE IN POLE

VCL = 500.00

K = 145.48

VPC STA 987+05.00'D'
VPC EL 883.28

VPT STA 992+05.00'D'
VPT EL 893.38

VPC STA 992+70.00'D'
VPC EL 895.81

VPI STA 994+20.00'D'
VPI EL 901.42

0.75%

0.29%

STA 996+90.68'D'
EL 903.44

VPT STA 995+70.00'D'
VPT EL 902.54

STA 996+87.46'D'
EL 903.43

3.74%

PROPOSED PROFILE

VCL = 300.00

K = 100.51

STA 985+00.00'D'
EL 882.66

EXISTING PROFILE

VPI STA 989+55.00'D'
VPI EL 884.03

0.30%

RT SPECIAL DITCH

1.26%

LT SPECIAL DITCH

-1.00%

0.69%

-4.40%

3.21%

0.65%

-0.56%

5.35%

LT SPECIAL DITCH

RT SPECIAL DITCH

EXISTING PROFILE ELEVATION

PROPOSED PROFILE ELEVATION

| | | |

WISDOT ITS - FIBER
1/16 LINE (TYP)
FHR - GAS HIGH PRESSURE 8"
ABANDONED SEWER
USH 12/18 WB
USH 12/18 EB
CITY OF MADISON ENGINEERING - SEWER
FRONTIER - FIBER
MG&E - GAS
MG&E - ELEC
CAUTION
CITY OF MADISON - LIGHTING
EB EXIT RAMP
S-13-570 REQ'D (SEE STRUCTURE PLANS)
DELINEATED WETLAND (TYP)
STATE OF WI DEPT OF TRANS
MARSH EXCAVATION AREA
MB-4B-2
MB-4B-3A
MB-4B-3
MB 27
RB 200
BORE
MILLPOND RD
SLOPE INTERCEPT (TYP)
WISCONSIN WINNEBAGO TRIBE
LONG DR
CITY OF MADISON PARKS YAHARA HILLS GOLF COURSE
CANOPY
CHARTER-TELECOMMUNICATION (ON SAME POLES)
EXISTING R/W (TYP)
PROPOSED R/W (TYP)
MADISON WATER - WATER
ANR PIPELINE - GAS HIGH PRESSURE 10"
ANR PIPELINE - GAS HIGH PRESSURE 6"
N

PROPOSED PROFILE AT REF LINE
EXISTING GROUND AT REF LINE
EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS
STA 40+31'E (1)-CPRCHE CLASS HE-III 29X45-INCH SKEW 1.4° RHF

STA 31+91.12'E EL 866.11	STA 32+00.00'E EL 866.09	STA 32+50.00'E EL 865.86	STA 33+45.00'E EL 865.54	STA 34+10.00'E EL 865.51
STA 34+70.00'E EL 865.24	STA 36+00.00'E EL 864.88	STA 37+20.00'E EL 864.97	STA 41+50.00'E EL 866.10	STA 43+00.00'E EL 866.60
STA 44+15.00'E EL 867.06	STA 44+65.00'E EL 866.80	STA 45+35.00'E EL 867.15	STA 45+64.35'E EL 866.98	
-0.45%	-0.34%	-0.04%	-0.45%	-0.28%
0.08%	0.26%	0.33%	0.40%	-0.51%
0.50%	-0.60%	-0.23%		

| | | | |

CITY OF MADISON PARKS YAHARA HILLS GOLF COURSE

C&L INVESTMENT PARTNERSHIP

STA. 503+00'NB', LT
CE REQ'D PER SDD 8D21
1-18" CP CL III-A REQ'D
2-ENDWALLS REQ'D
LENGTH: 48'

FRONTIER - TEL

SAWCUT REQ'D

ALLIANT ENERGY - ELEC

APPROXIMATE LOCATION OF ABANDONED DRINKING WATER WELL

YAHARA HILLS - ELEC

MG&E - GAS

BM CP 526

506'SB'

504'SB'

504'NB'

506'NB'

PROPOSED EASEMENT

CAUTION

502'SB'

502'NB'

S-13-559
(SEE STRUCTURE PLANS)

SLOPE INTERCEPT

RELIEF TRENCH (TYP.)

PROPOSED R/W

STA. 502+30'NB', RT
FE REQ'D PER SDD 8D21
1-18" CP CL III-A REQ'D
2-ENDWALLS REQ'D
LENGTH: 38'

500'NB'

CTH AB

STA. 500+00'NB' TO STA. 502+00'NB', LT & RT
CLEARING AND GRUBBING REQ'D

PROPERTY LINE

PROPOSED EASEMENT

FRONTIER - 3 - TEL

EXISTING R/W

BEGIN PROJECT 3080-01-75
STA 500+10.72'NB'
MATCH EXISTING
SAWCUT REQ'D

VERNON J RATHERT

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 526	502+80'NB'	53.0' LT	895.26	COTTON GIN
CP 525	507+00'NB'	343.8' LT	885.77	MAG NAIL

C&L INVESTMENT PARTNERSHIP

DELINEATED WETALNDS (TYP)

PROPOSED R/W

SLOPE INTERCEPT

510'SB'

510'NB'

512'SB'

512'NB'

514'SB'

514'NB'

CTH AB

516'SB'

S-13-561
(SEE STRUCTURE PLANS)

SLOPE INTERCEPT

PROPOSED R/W

C&L INVESTMENT PARTNERSHIP

33" M.P.P.

396 M.P.V.

910
905
900
895
890
885
880
875

STA 500+10.72'NB'
EL 904.08

-3.59%

-4.87%

-4.78%

LT SPECIAL DITCH

-3.73%

-3.56%

PROPOSED PROFILE

VPI STA 504+95.00'NB'
VPI EL 886.71

RT SPECIAL DITCH

EXISTING PROFILE

-1.71%

0.50%

EXISTING PROFILE ELEVATION
PROPOSED PROFILE ELEVATION

VPC STA 503+45.00 'NB'
VPC EL 892.09

VCL = 300.00
K = 65.41

VPT STA 506+45.00 'NB'
VPT EL 888.21

LP STA 505+79.59
LP EL 887.88

STA 507+53.71'NB'
EL 889.29

1.00%

VPI STA 510+55.00'NB'
VPI EL 891.77

STA 509+26.92'NB'
EL 890.49

VPC STA 509+80.00 'NB'
VPC EL 891.02

VCL = 150.00
K = 111.98

VPT STA 511+30.00 'NB'
VPT EL 893.53

2.34%

VPC STA 514+15.00 'NB'
VPC EL 900.19

VPI STA 514+90.00'NB'
VPI EL 901.95

VCL = 150.00
K = 111.98

STA 509+96.12'NB'
(1) - 174' CPRC CLASS III 24-INCH REQ'D
(2) - APRON ENDWALLS REQ'D
SKEW 11° LHF

1.48%

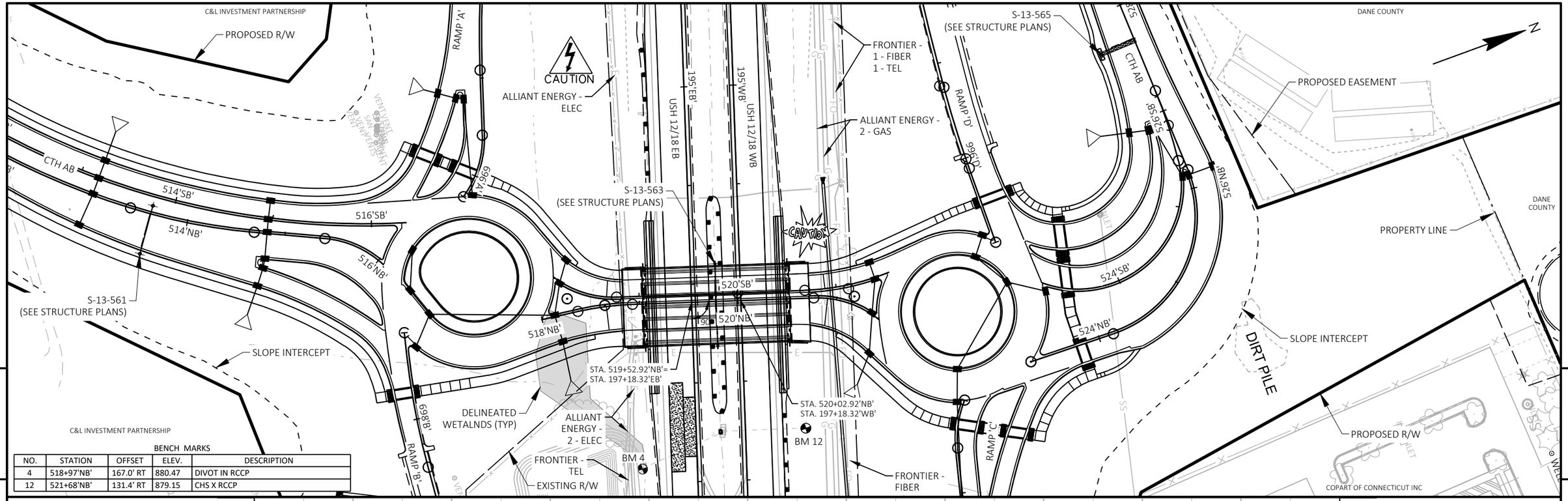
-0.69%

-0.52%

-0.59%

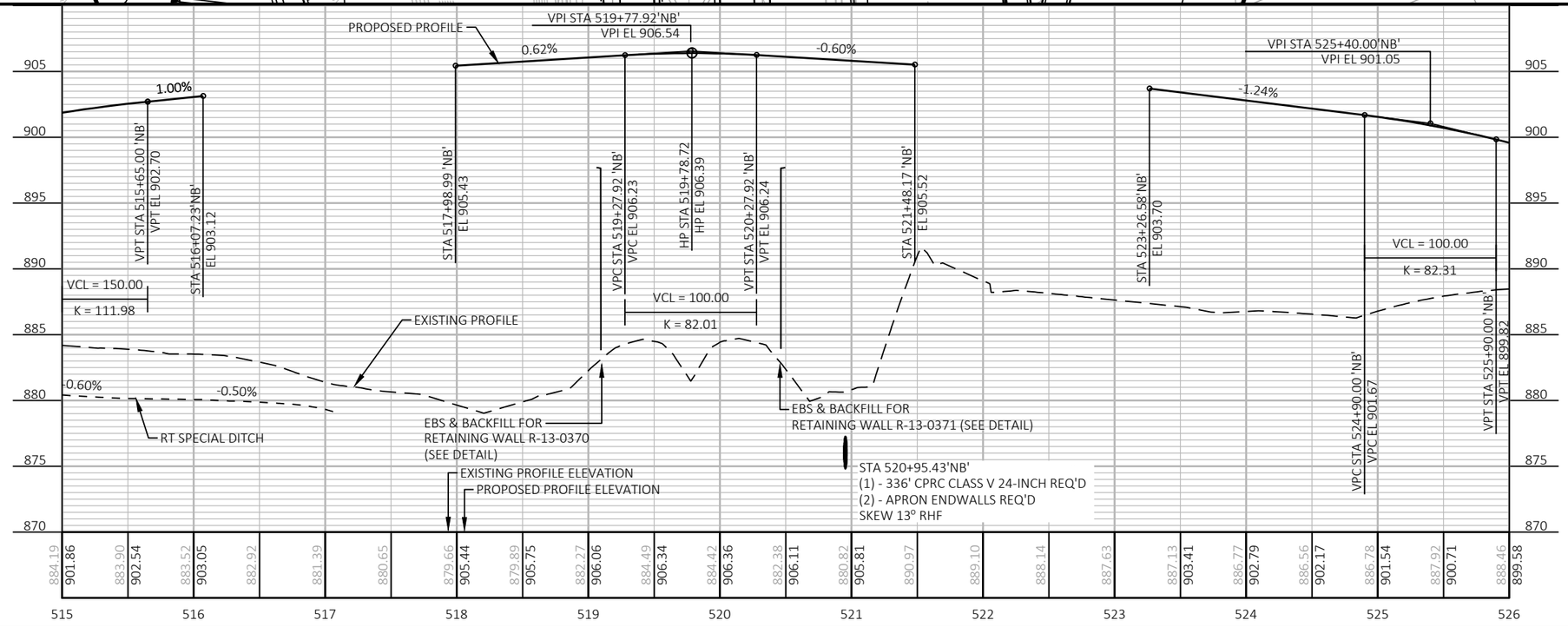
RT SPECIAL DITCH

| | | |

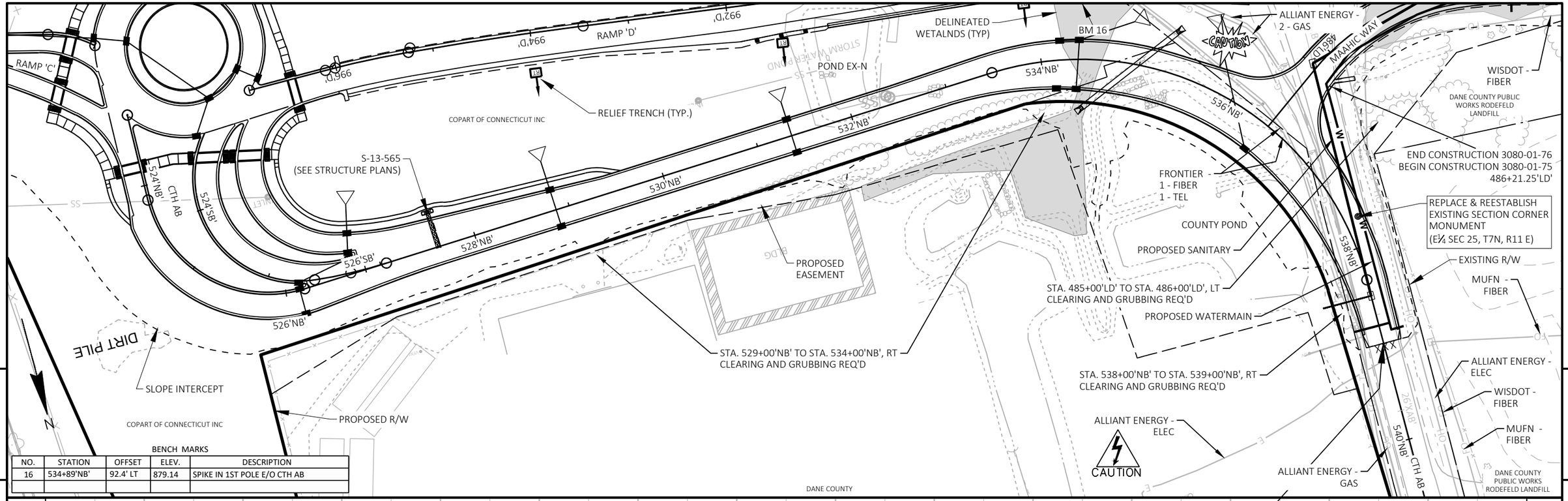


BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
4	518+97'NB'	167.0' RT	880.47	DIVOT IN RCCP
12	521+68'NB'	131.4' RT	879.15	CHS X RCCP

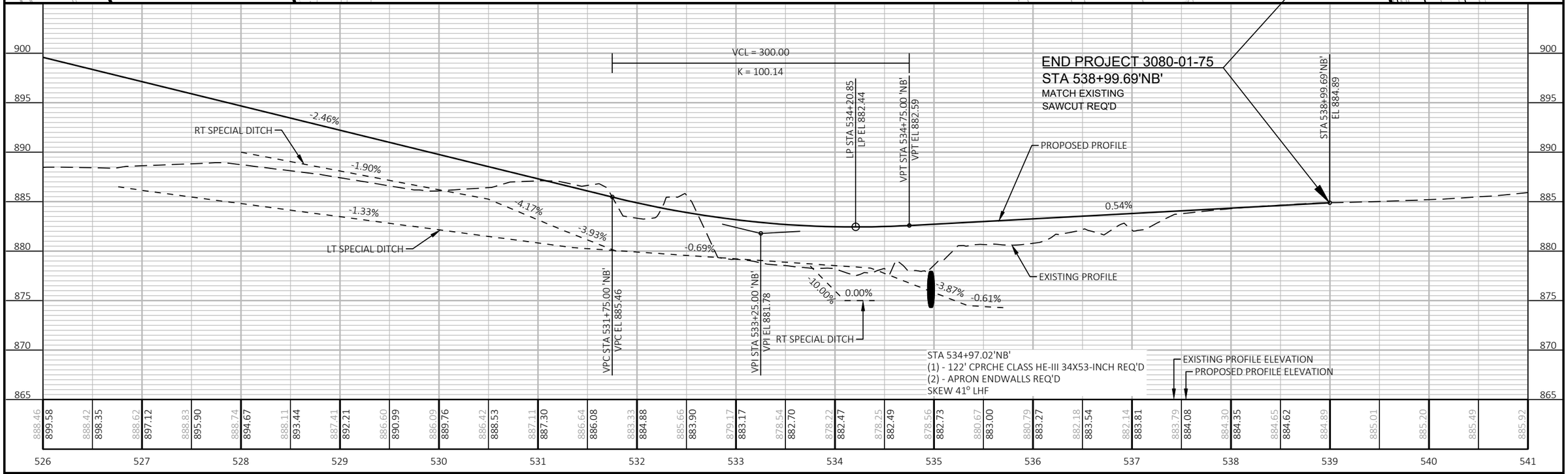


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: CTH AB - 'NB'	SHEET 586	E

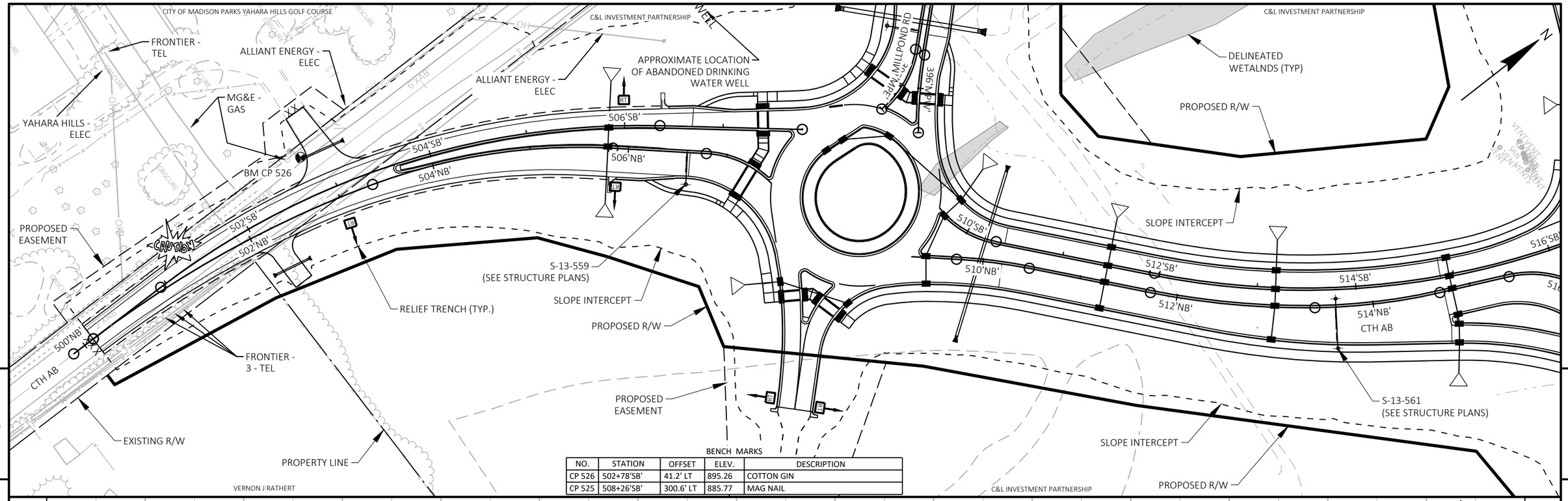


BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
16	534+89'NB'	92.4' LT	879.14	SPIKE IN 1ST POLE E/O CTH AB

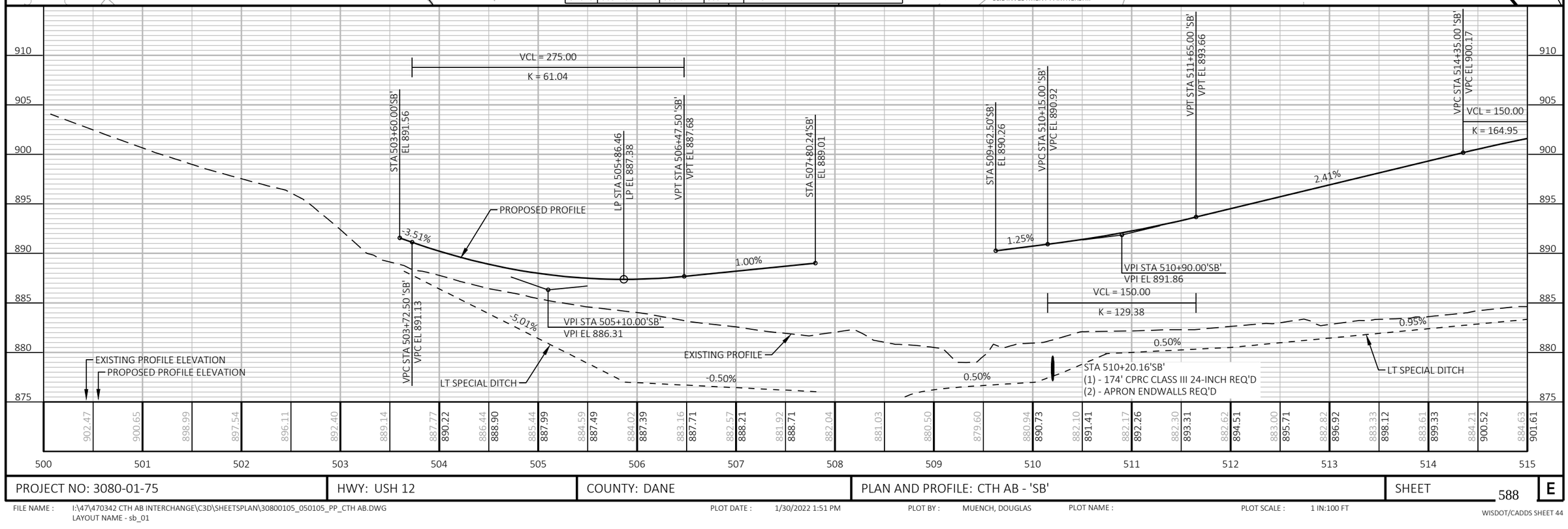


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: CTH AB - 'NB'	SHEET 587	E

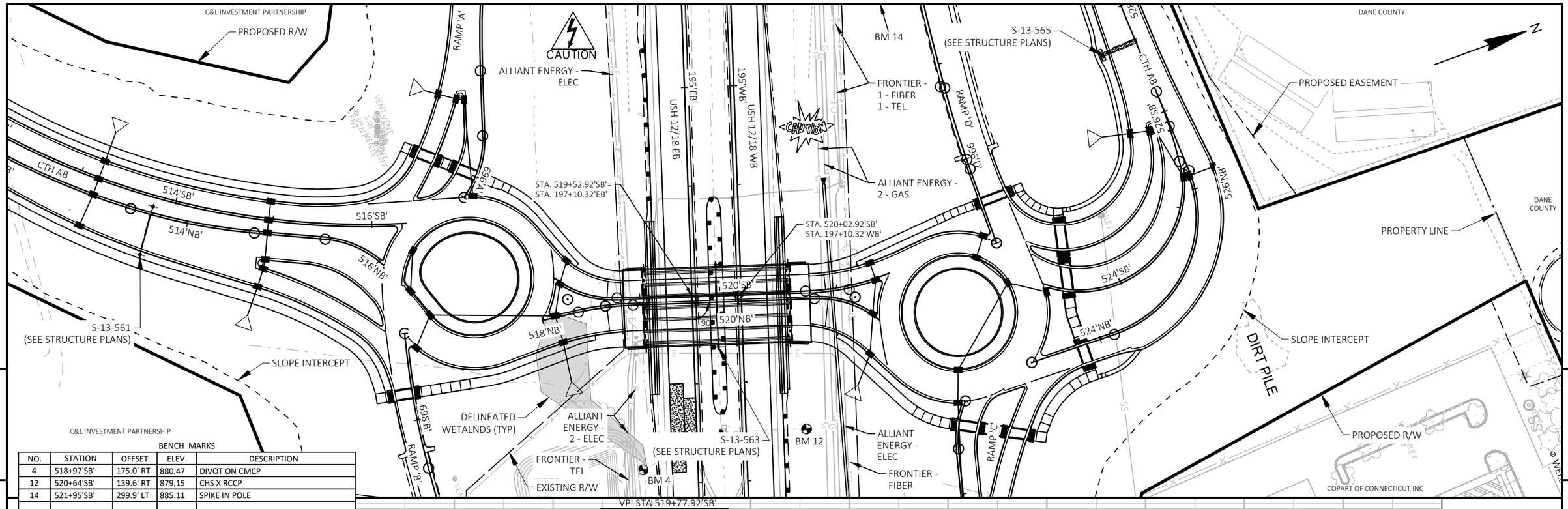


BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 526	502+78'SB'	41.2' LT	895.26	COTTON GIN
CP 525	508+26'SB'	300.6' LT	885.77	MAG NAIL



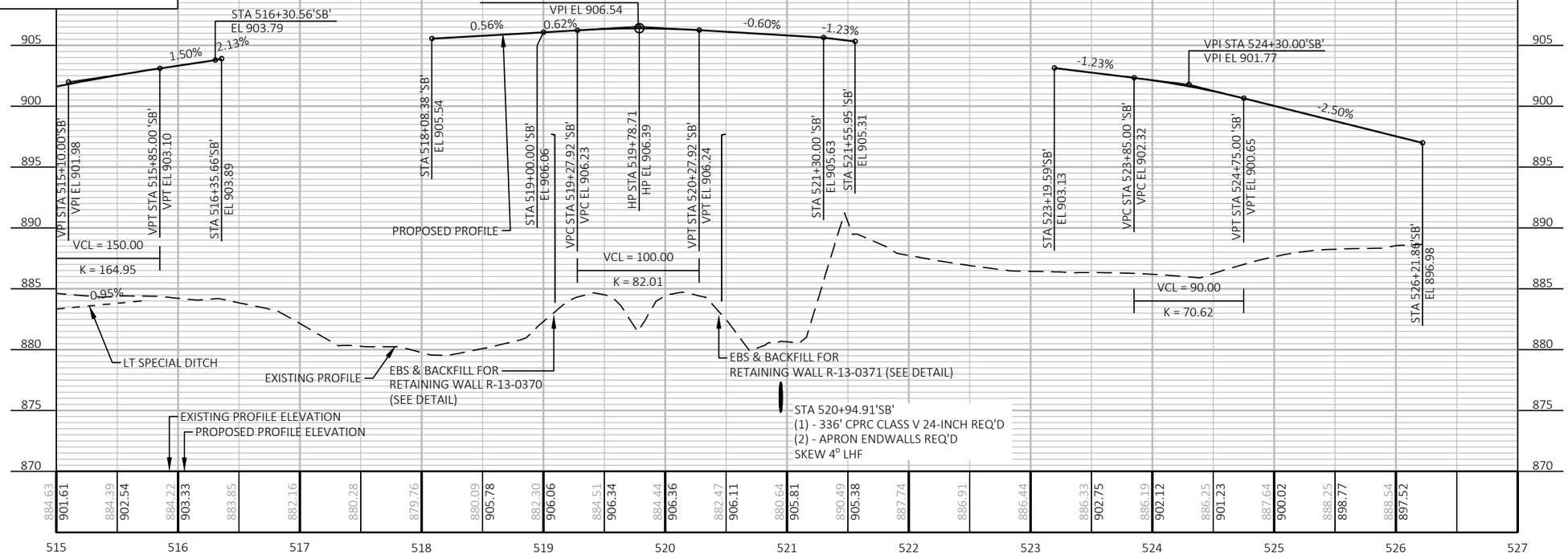
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: CTH AB - 'SB'	SHEET 588	E



C&L INVESTMENT PARTNERSHIP

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
4	518+97'SB'	175.0' RT	880.47	DIVOT ON CMCP
12	520+64'SB'	139.6' RT	879.15	CHS X RCCP
14	521+95'SB'	299.9' LT	885.11	SPIKE IN POLE

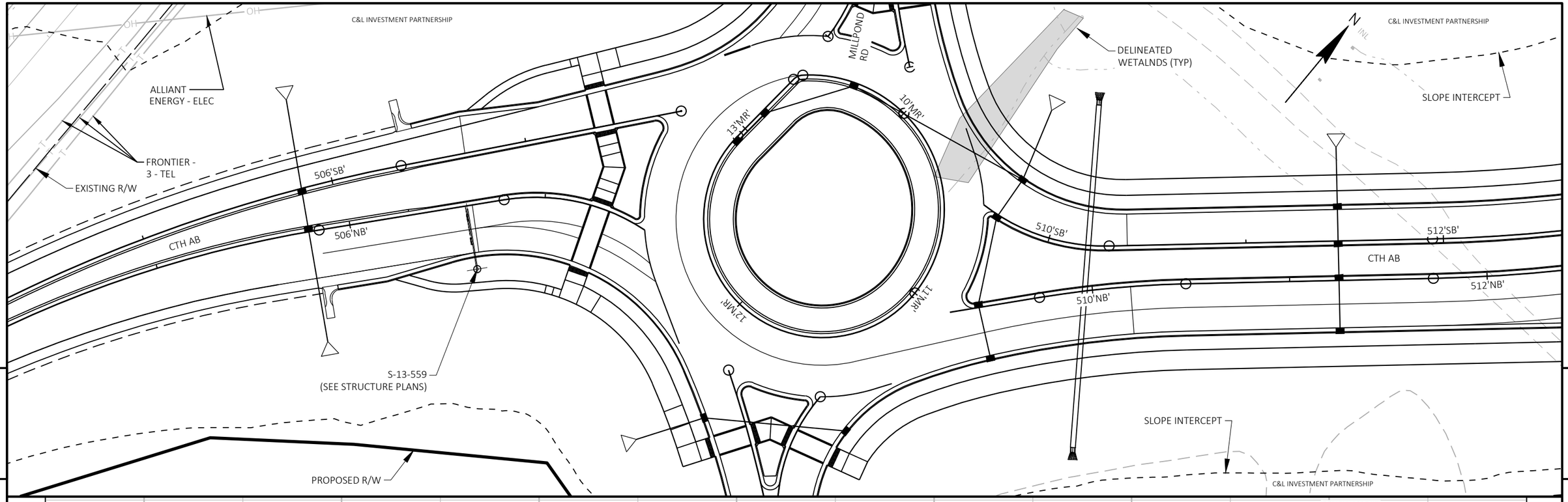


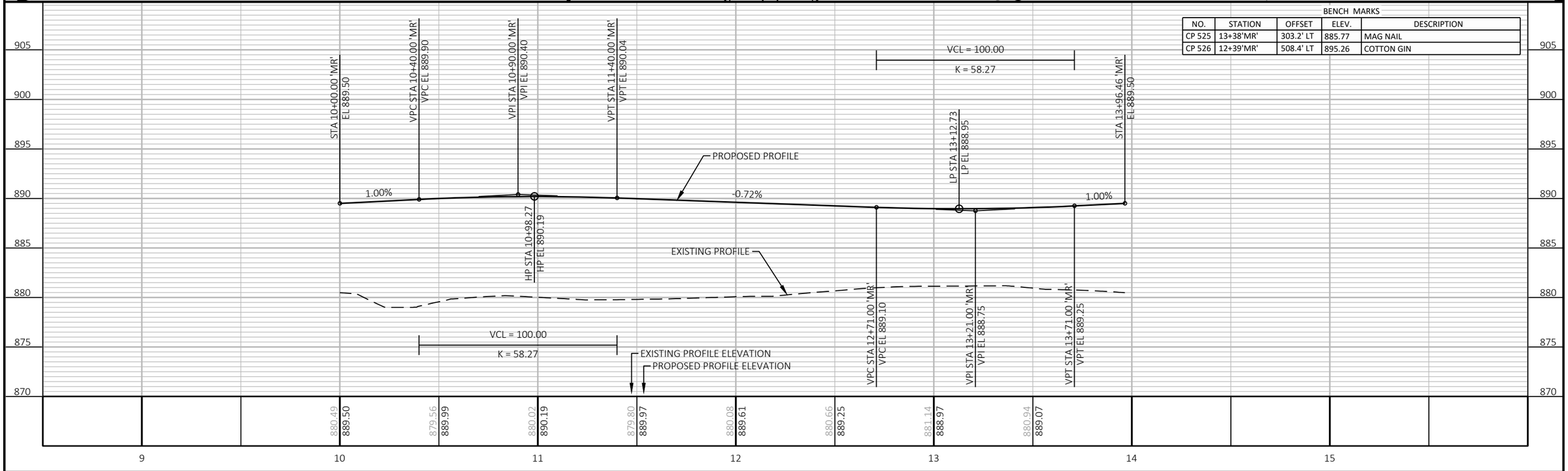
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: CTH AB - 'SB'	SHEET 589	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050105_PP_CTH AB.DWG
LAYOUT NAME - sb_02

PLOT DATE : 5/3/2022 2:30 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: MILLPOND ROUNDABOUT (MR)	SHEET 590	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050105A_PP_RNDABTS.DWG
LAYOUT NAME - Millpond RNDABT
PLOT DATE : 10/29/2021 10:22 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

C&L INVESTMENT PARTNERSHIP

RAMP 'A'

41'SSW'

698'

514'SB'

516'SB'

514'NB'

CTH AB

516'NB'

51'S3R'

52'S3R'

10'SRR'

13'SRR'

12'SRR'

11'SRR'

518'NB'

ALLIANT ENERGY - ELEC

520'SB'

CTH AB

520'NB'

S-13-561
(SEE STRUCTURE PLANS)

S-13-563
(SEE STRUCTURE PLANS)

SLOPE INTERCEPT

PROPOSED R/W

RAMP 'B'

DELINEATED WETALNDS (TYP)

C&L INVESTMENT PARTNERSHIP

5

5

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
4	11+31'SRR'	198.0' LT	880.47	DIVOT ON CMCP
5	11+53'SRR'	440.5' LT	880.74	HOLE IN CMCP

910
905
900
895
890
885
880
875

VPI STA 10+95.00'SRR'
VPI EL 905.49

PROPOSED PROFILE

LP STA 12+58.73
LP EL 903.32

1.00%

-1.56%

1.00%

STA 10+00.00 'SRR'
EL 904.54

VPC STA 10+55.00 'SRR'
VPC EL 905.09

HP STA 10+86.27
HP EL 905.25

VPT STA 11+35.00 'SRR'
VPT EL 904.87

VCL = 80.00

K = 31.27

VPC STA 12+10.00 'SRR'
VPC EL 903.70

VPI STA 12+50.00 'SRR'
VPI EL 903.08

VPT STA 12+90.00 'SRR'
VPT EL 903.48

STA 13+96.46 'SRR'
EL 904.54

EXISTING PROFILE

EXISTING PROFILE ELEVATION

PROPOSED PROFILE ELEVATION

881.03	904.54	880.24	905.04	880.01	905.22	880.63	904.64	881.31	903.86
882.86	903.33	883.82	903.58	883.36	904.08				

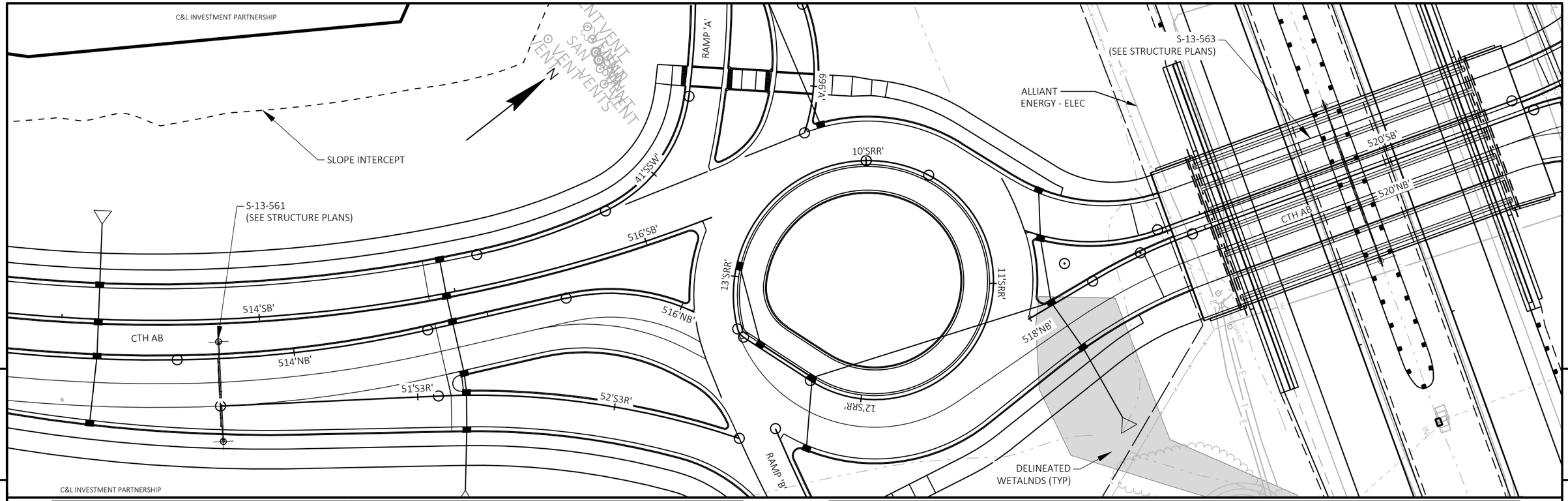
9 10 11 12 13 14 15

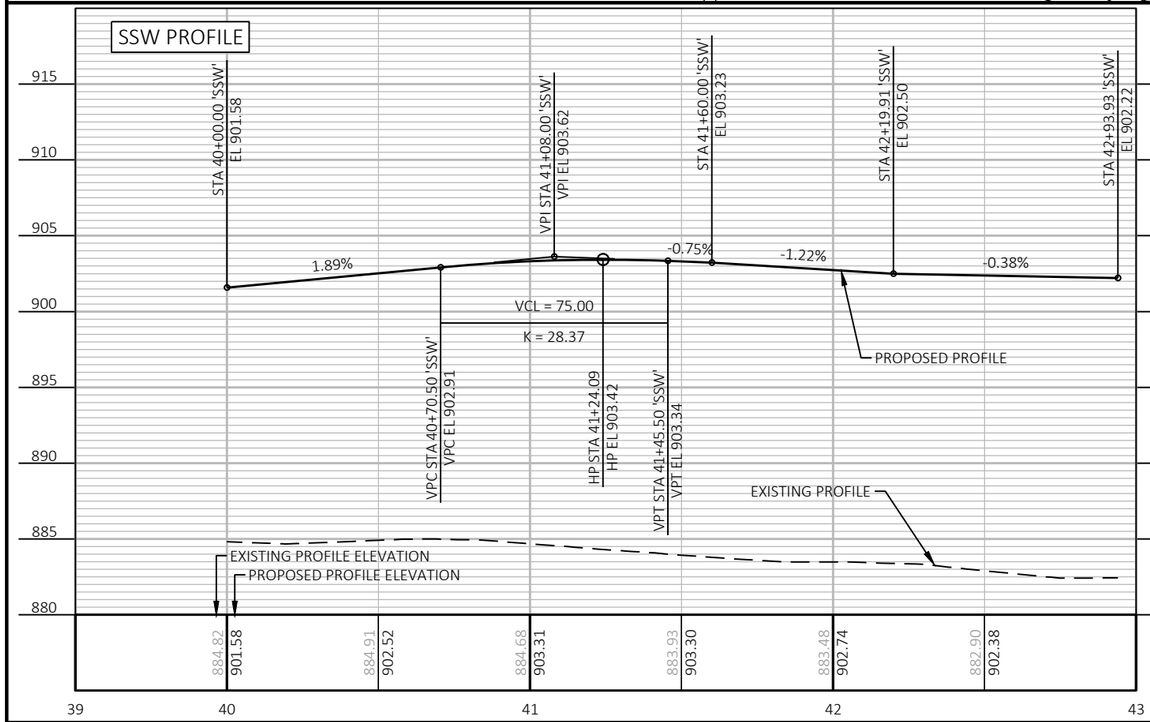
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: SOUTH RAMPS ROUNDABOUT (SRR)	SHEET 591	E

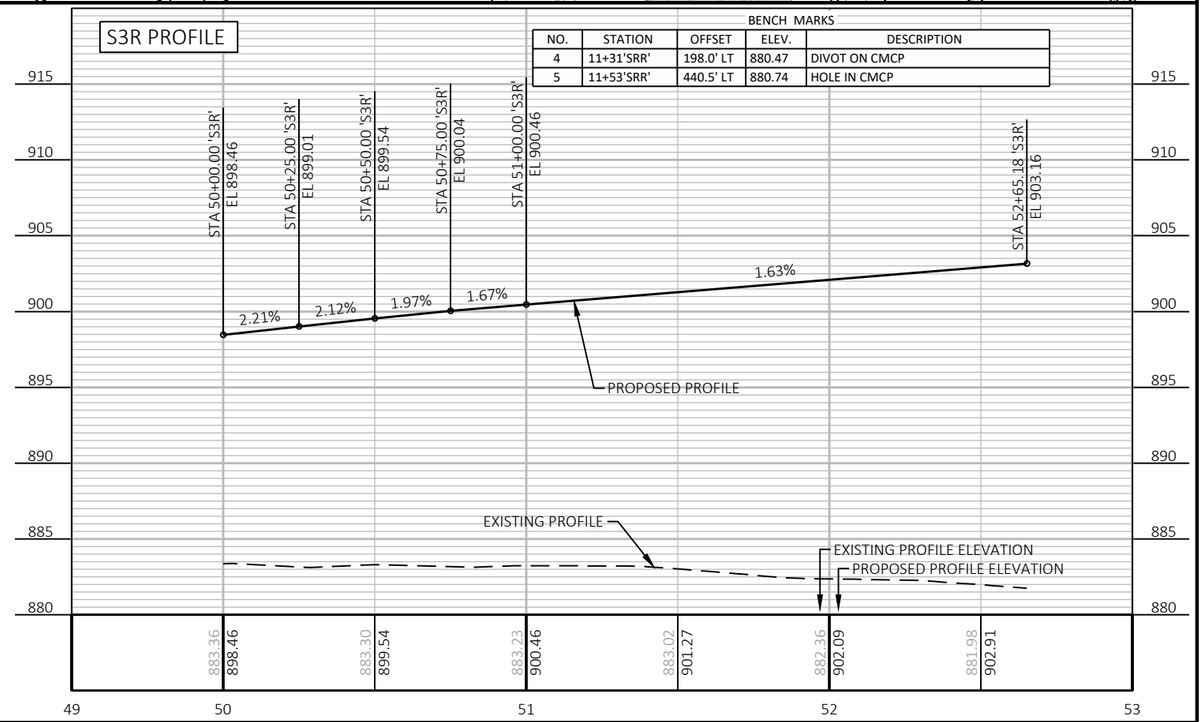
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050105A_PP_RNDABTS.DWG
LAYOUT NAME - South RNDABT

PLOT DATE : 10/29/2021 10:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44





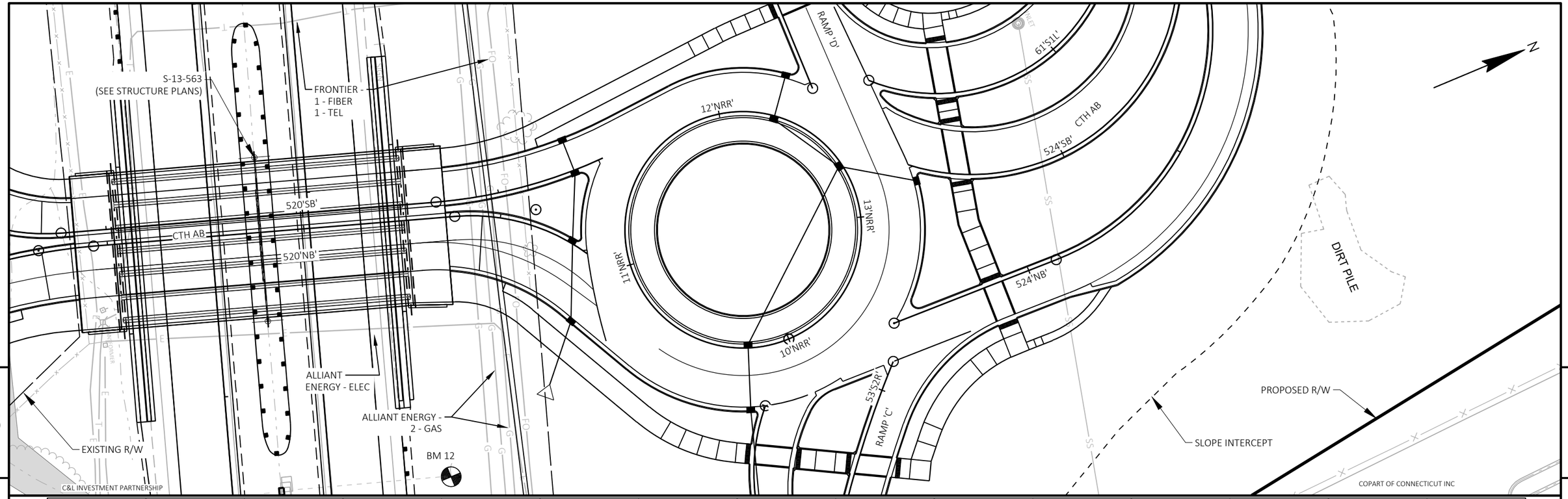


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: SOUTH RAMPS ROUNDABOUT (SSW-S3R)	SHEET 592	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050105A_PP_RNDABTS.DWG
LAYOUT NAME - South RNDABT SSW-S3R

PLOT DATE : 10/29/2021 10:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

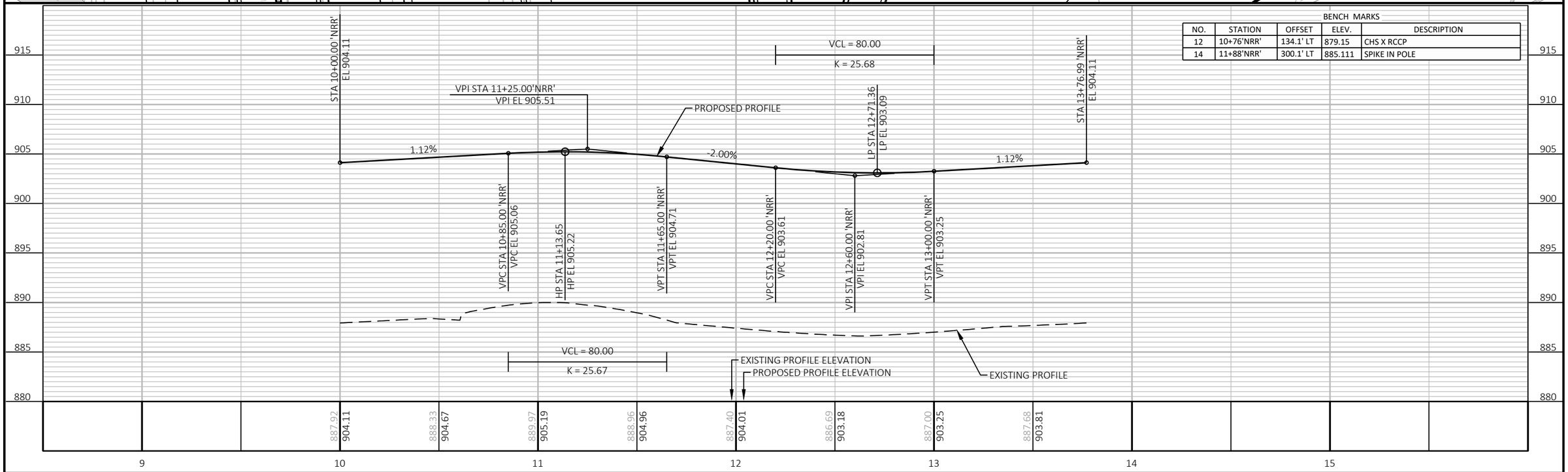


5

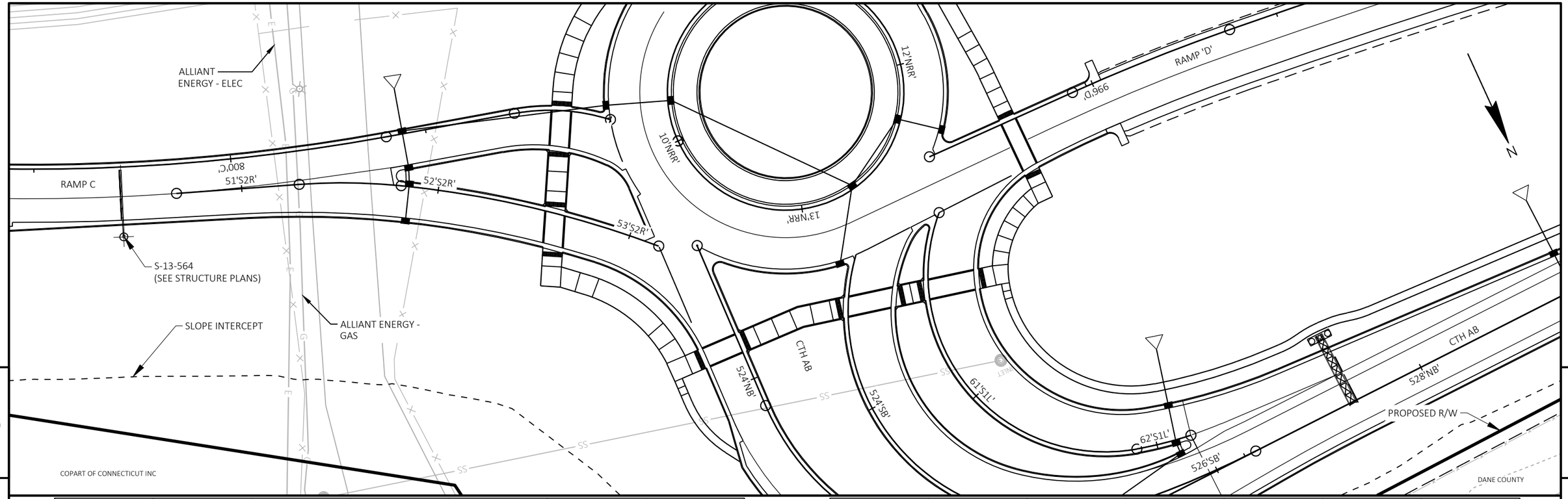
5

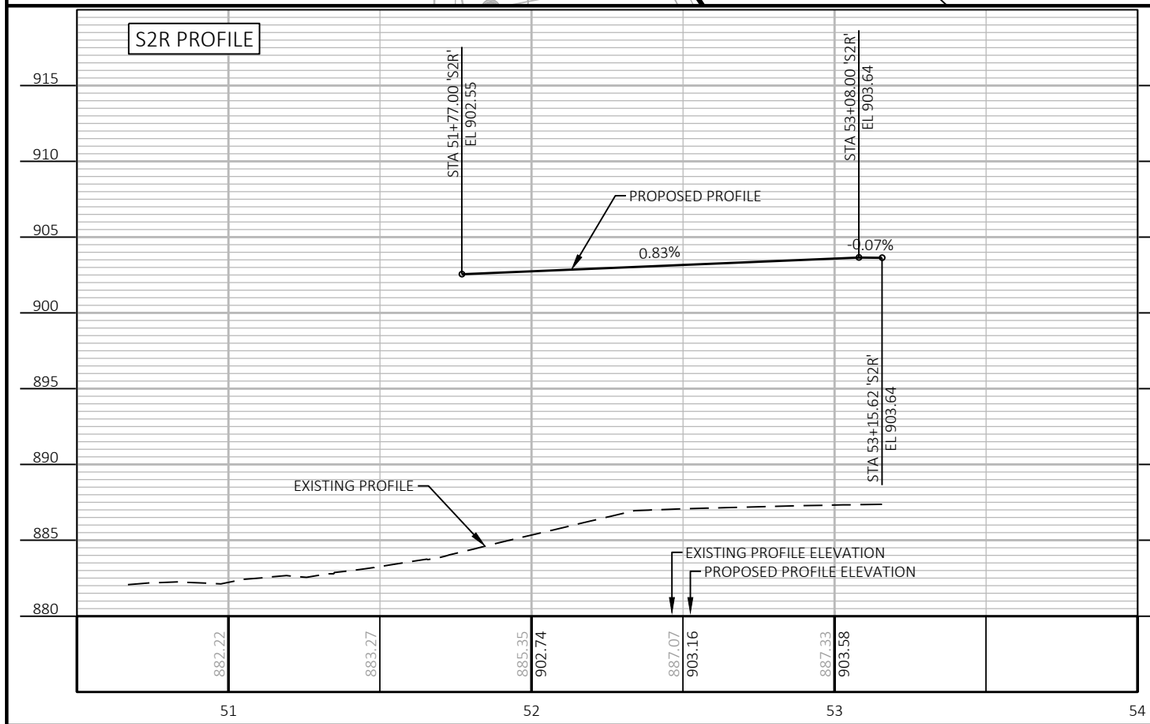
BENCH MARKS

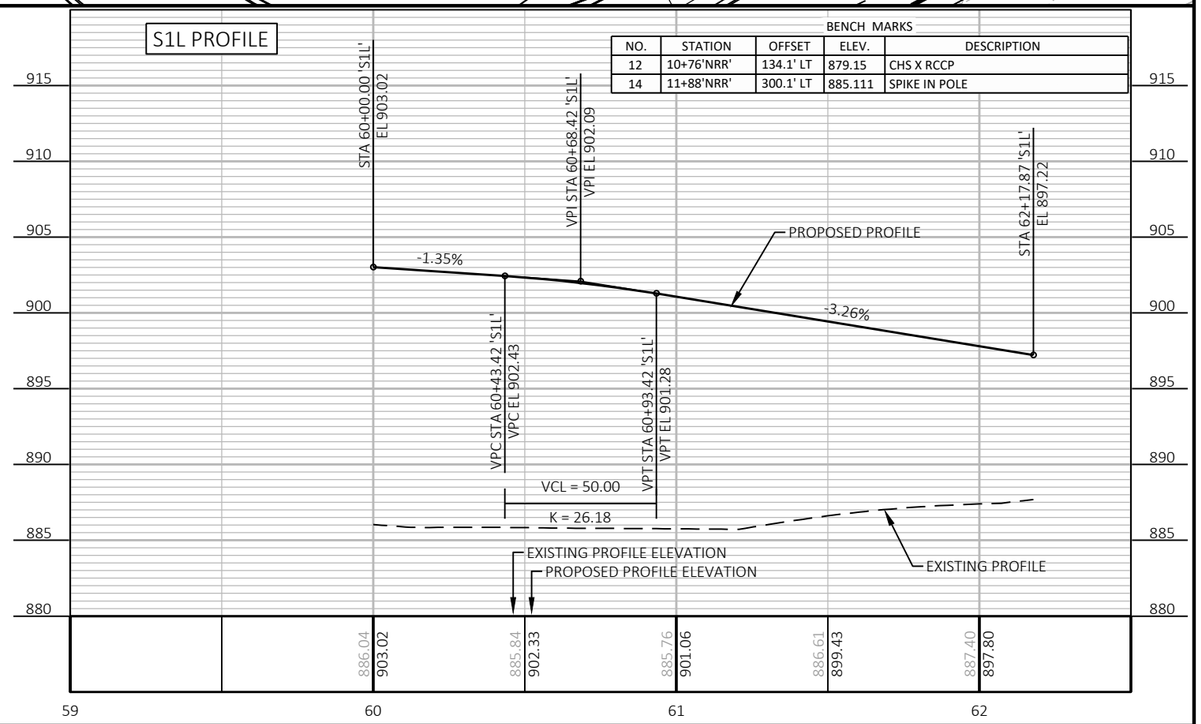
NO.	STATION	OFFSET	ELEV.	DESCRIPTION
12	10+76'NRR'	134.1' LT	879.15	CHS X RCCP
14	11+88'NRR'	300.1' LT	885.111	SPIKE IN POLE



PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: NORTH RAMPS ROUNDABOUT (NRR)	SHEET 593	E





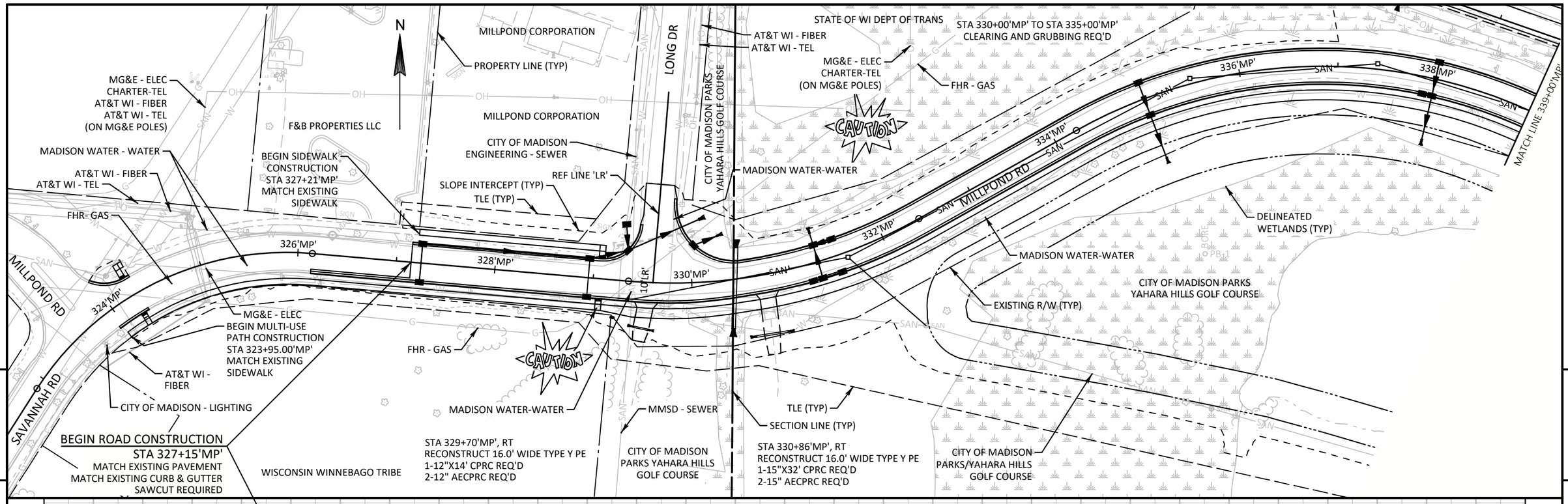


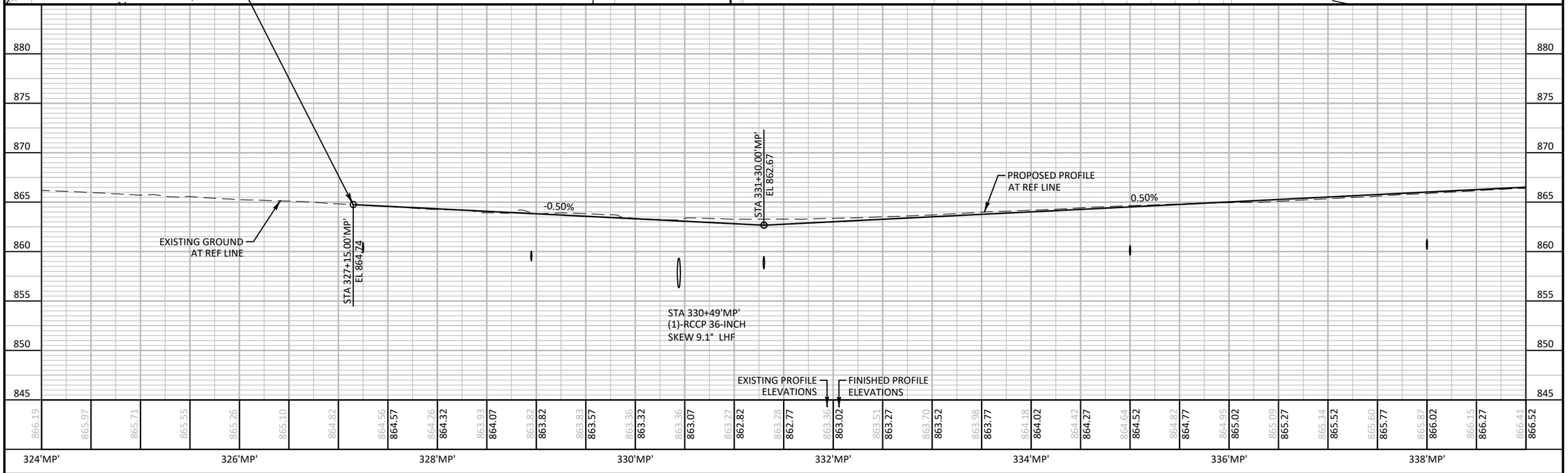
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: NORTH RAMPS ROUNDABOUT (S2R-S1L)	SHEET 594	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050105A_PP_RNDABTS.DWG
LAYOUT NAME - North RNDABT S1L-S2R

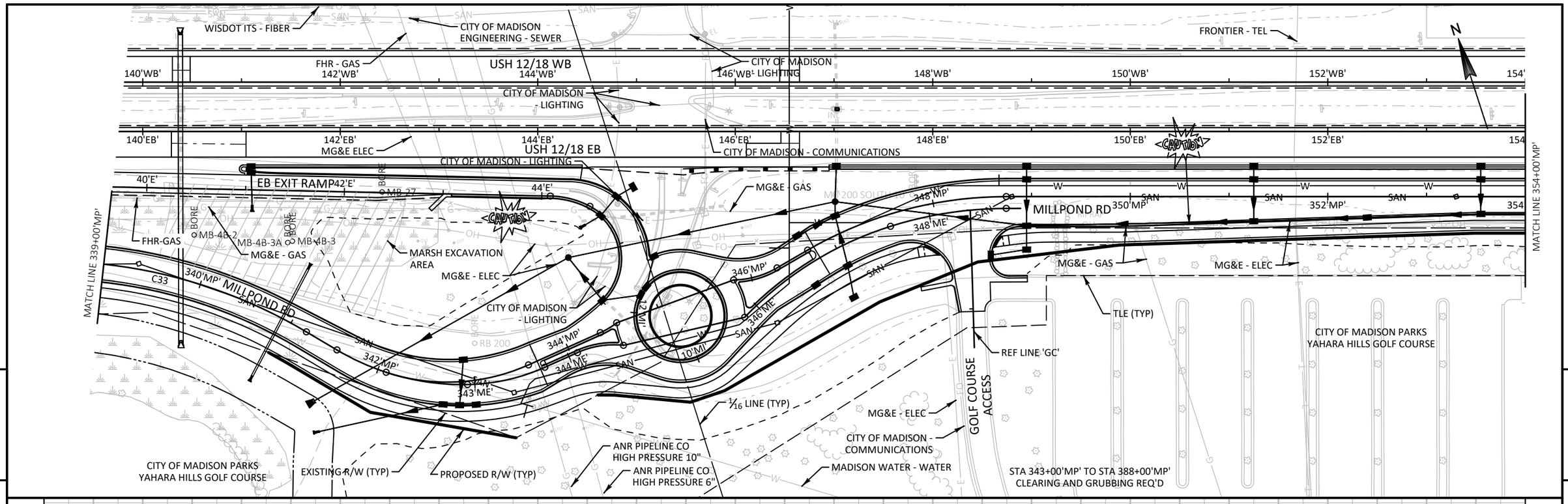
PLOT DATE : 10/29/2021 10:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:50 FT

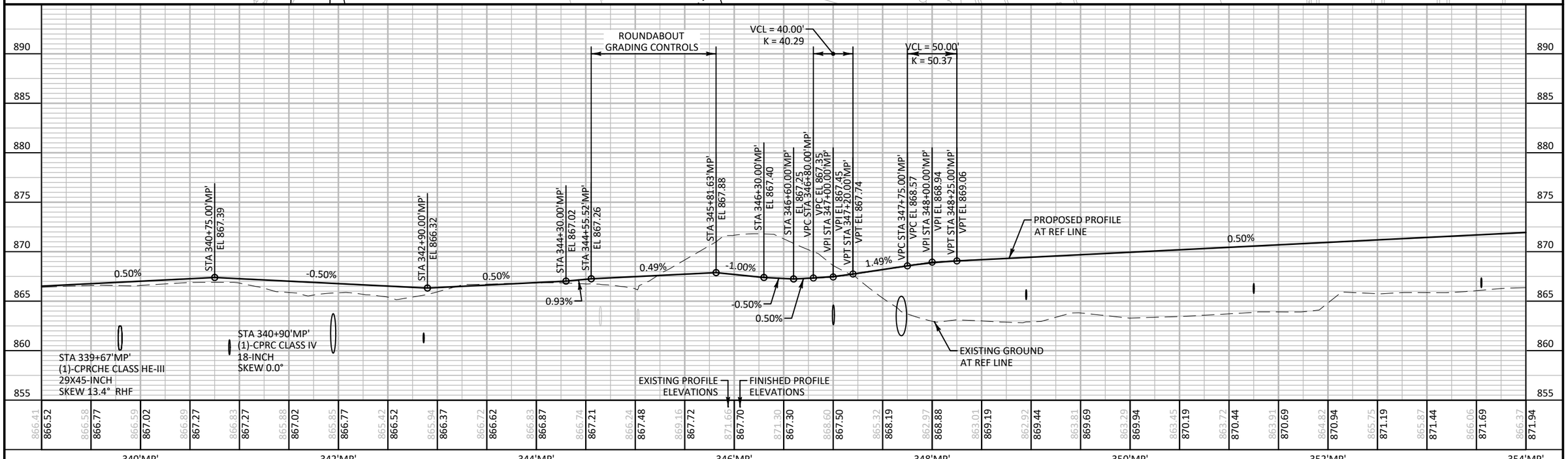
WISDOT/CADDS SHEET 44



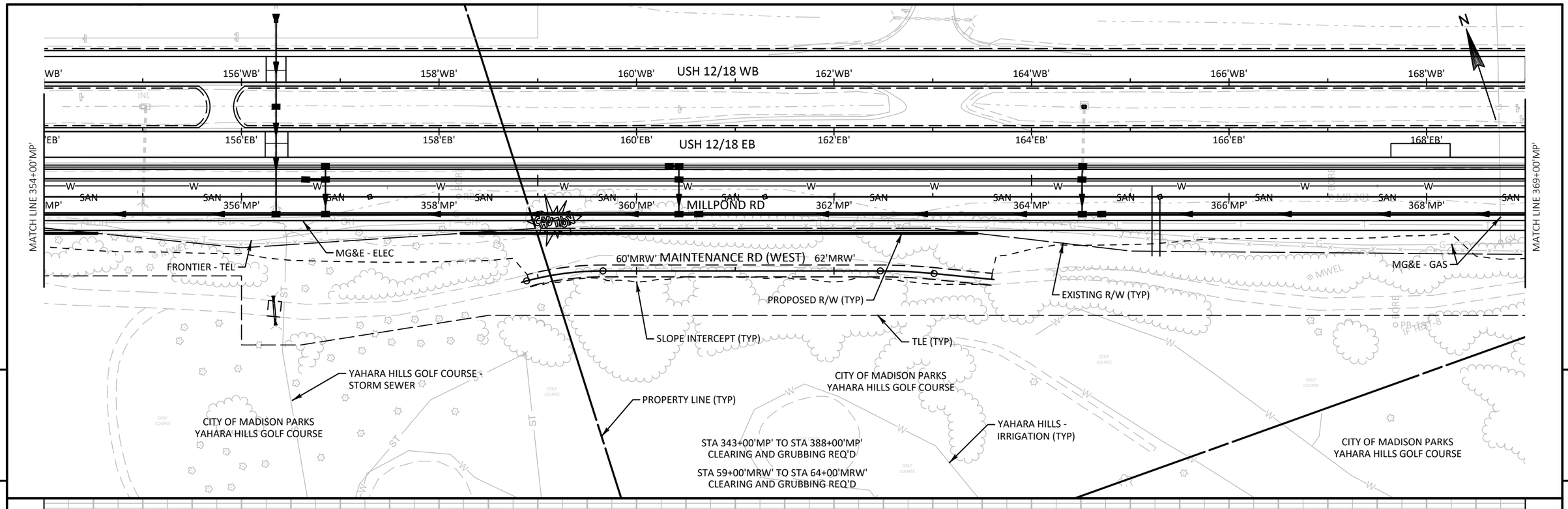


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: MILLPOND ROAD	SHEET 595	E



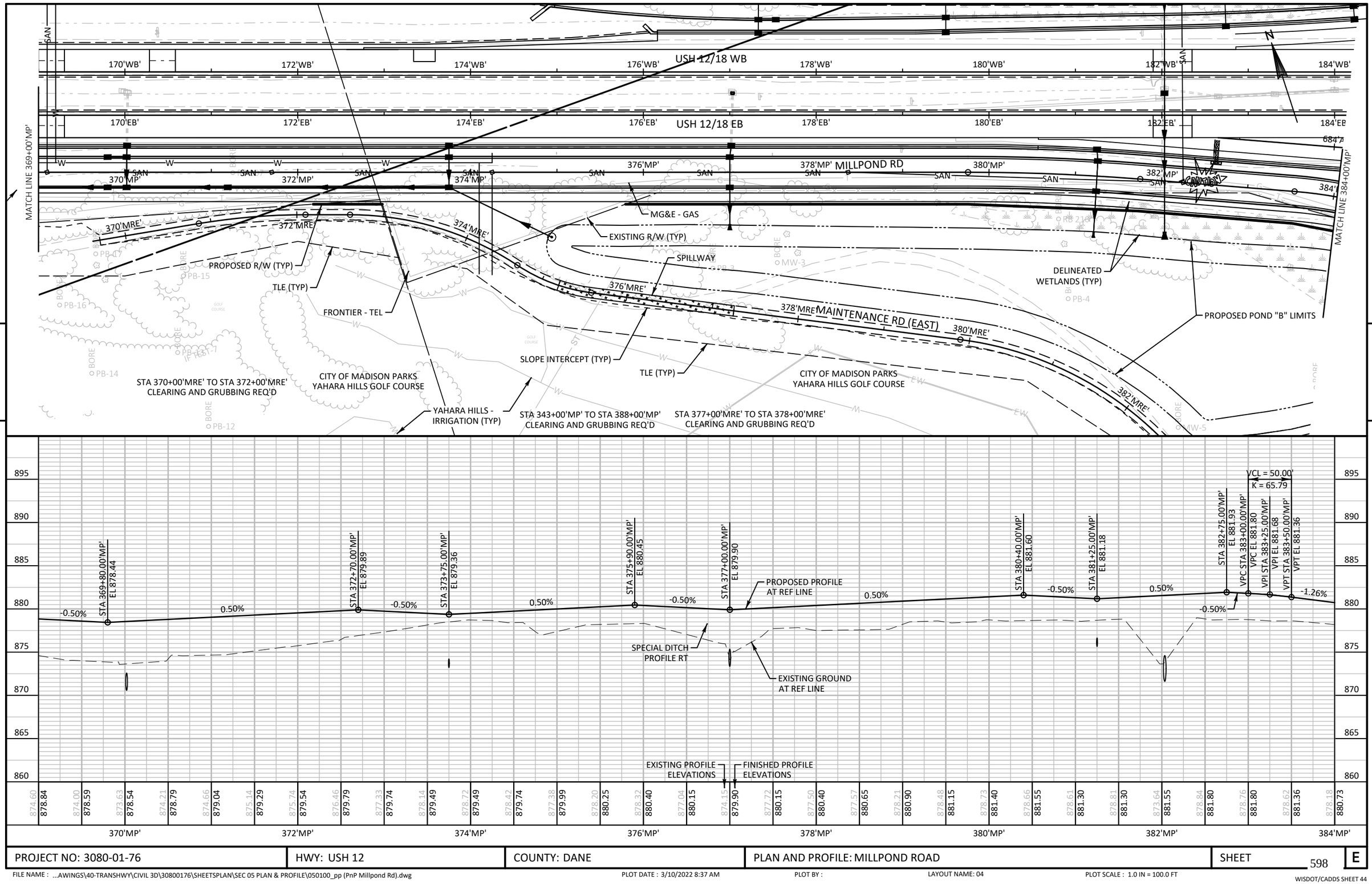


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: MILLPOND ROAD	SHEET 596	E



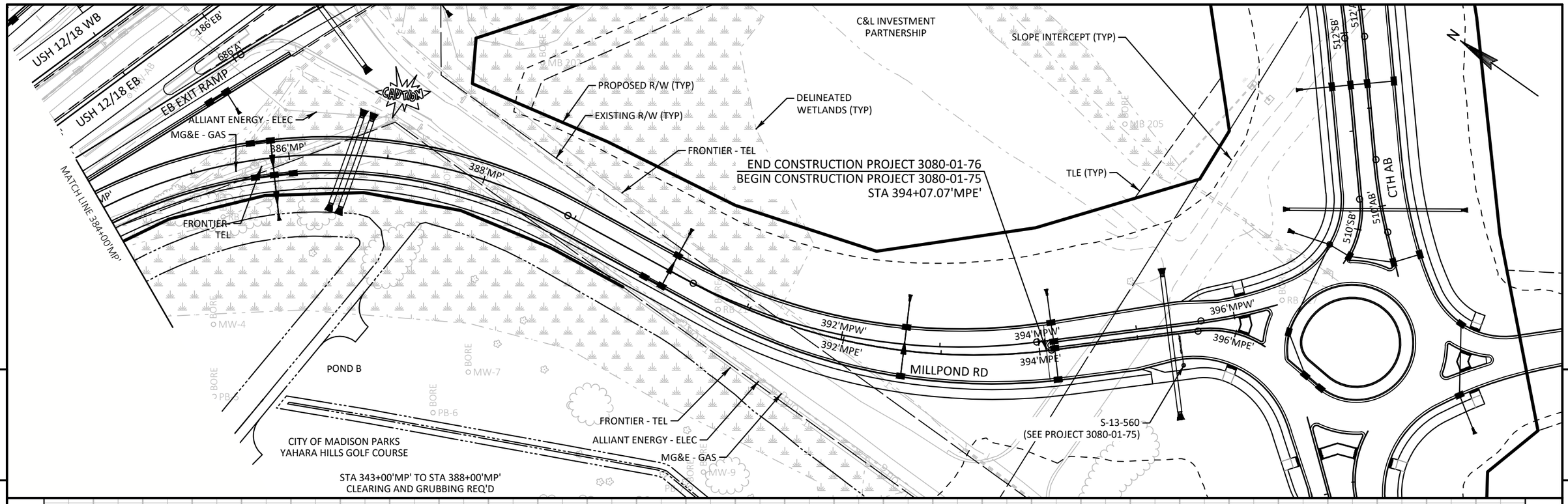
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: MILLPOND ROAD	SHEET 597	E

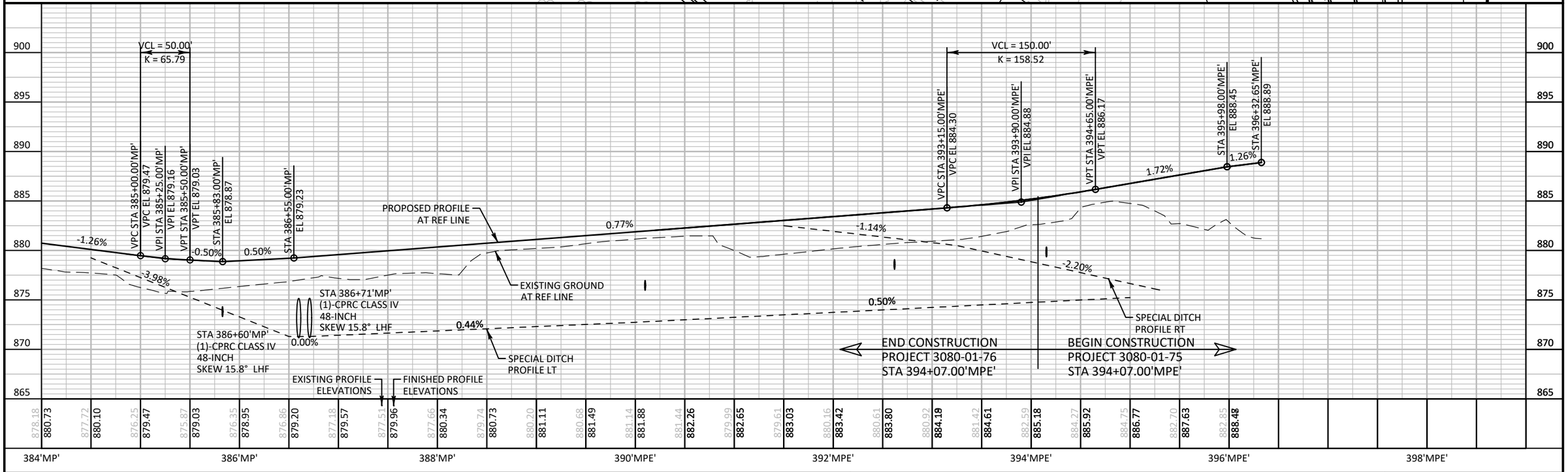
FILE NAME : ...AWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 05 PLAN & PROFILE\050100_pp (PnP Millpond Rd).dwg
PLOT DATE : 3/10/2022 8:36 AM
PLOT BY :
LAYOUT NAME: 03
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 44



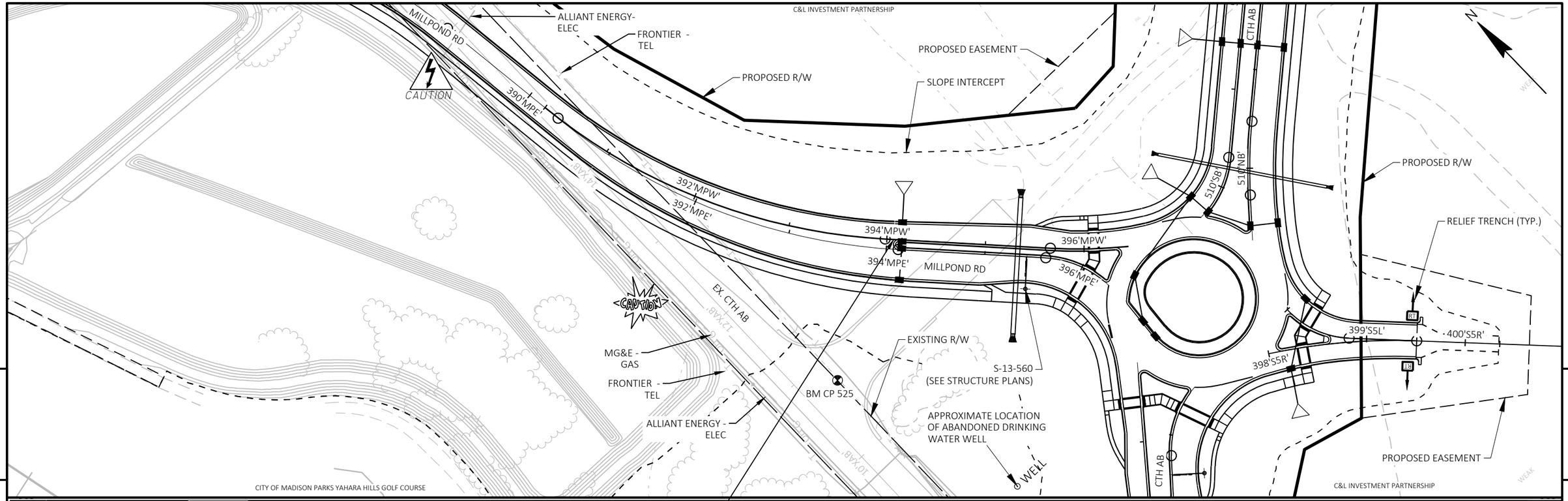
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: MILLPOND ROAD	SHEET 598	E

FILE NAME : ...AWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 05 PLAN & PROFILE\050100_pp (PnP Millpond Rd).dwg
PLOT DATE : 3/10/2022 8:37 AM
PLOT BY :
LAYOUT NAME: 04
PLOT SCALE : 1.0 IN = 100.0 FT





PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: MILLPOND ROAD	SHEET 599 E



5

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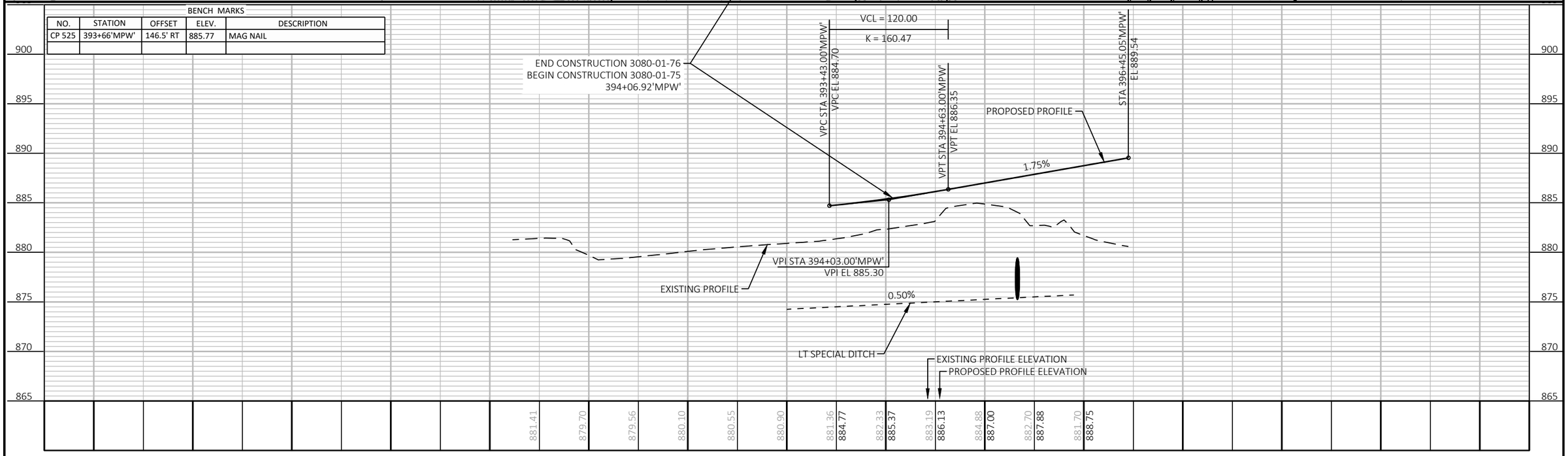
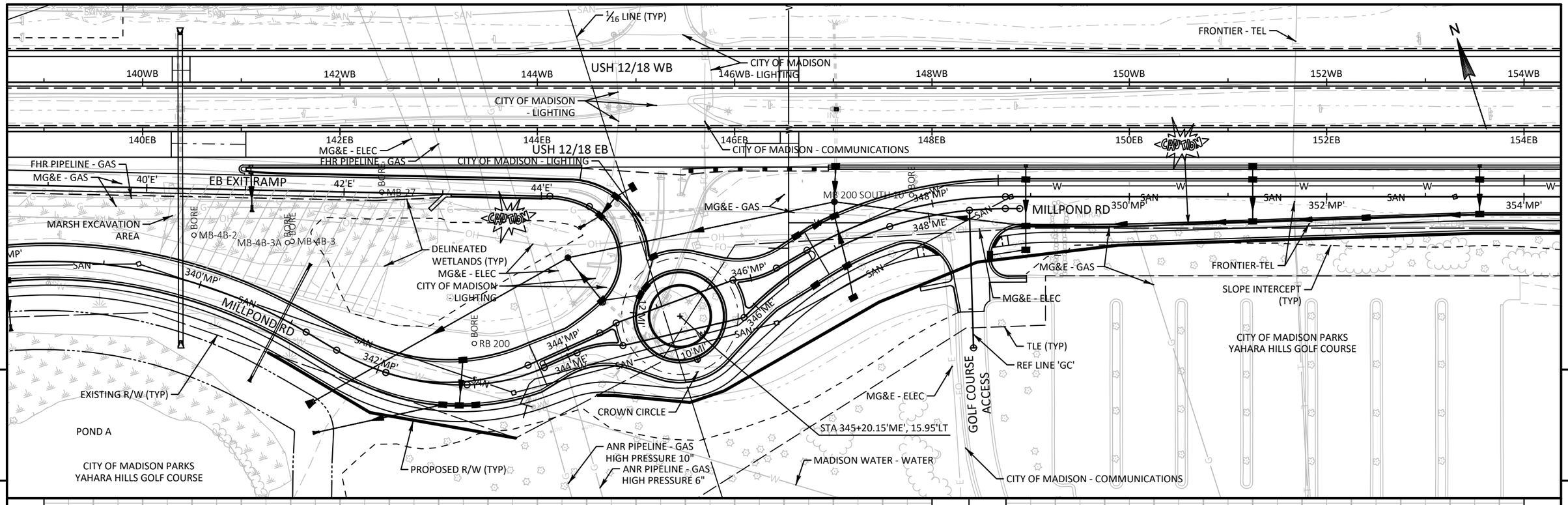
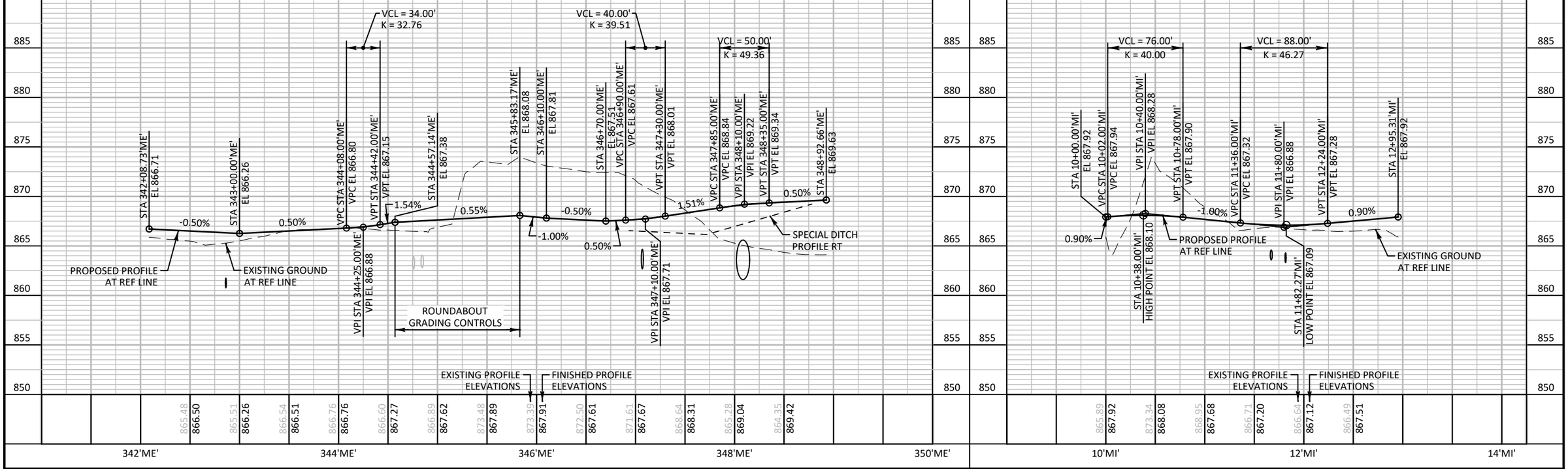
BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
CP 525	393+66'MPW'	146.5' RT	885.77	MAG NAIL



PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: MILLPOND ROAD (WB)	SHEET 600	E





PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: MILLPOND ROAD, EAST BOUND & ROUNDABOUT CIRCLE	SHEET 601 E

FILE NAME : ...AWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 05 PLAN & PROFILE\050100_pp (PnP Millpond Rd - ME & MI).dwg
PLOT DATE : 3/10/2022 8:38 AM
PLOT BY :
LAYOUT NAME: 01
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 44

STA 440+00'LD' TO STA 444+00'LD'
CLEARING AND GRUBBING REQ'D

CONTRACTOR SHALL MARK OUT THE LIMITS OF TREE REMOVALS AND GET ENGINEER APPROVAL PRIOR TO STARTING ANY REMOVALS.

STA 446+00'LD' TO STA 460+00'LD'
CLEARING AND GRUBBING REQ'D

DANE COUNTY PUBLIC WORKS RODEFELD LANDFILL

MG&E - ELEC
MUFN - FIBER
FHR - GAS (8-INCH HIGH PRESSURE)
ANR PIPELINE - GAS (10-INCH HIGH PRESSURE)
ANR PIPELINE - GAS (6-INCH HIGH PRESSURE)

MG&E - GAS

EXISTING R/W (TYP)

LANDFILL DR

PROPOSED R/W (TYP)

MG&E ELEC

MADISON WATER - WATER

CITY OF MADISON - COMMUNICATIONS

SLOPE INTERCEPT (TYP)

434'LD' 436'LD' 438'LD' 440'LD' 442'LD' 444'LD' 446'LD' 448'LD'

MAAHIC WAY (FORMERLY LONG DR)

MAAHIC WAY

WISDOT ITS - FIBER

ABANDONED SEWER

MG&E ELEC

WISDOT ITS - FIBER

CITY OF MADISON - LIGHTING

MATCH LINE 449+00'LD'

134'WB' 136'WB' 138'WB' 140'WB' 142'WB' 144'WB' 146'WB' 148'WB'

USH 12/18 WB

BEGIN CONSTRUCTION
STA 437+75.00'LD'
MATCH EXISTING PAVEMENT
SAWCUT REQUIRED

DELINEATED WETLANDS (TYP)

CAUTION

CITY OF MADISON - LIGHTING

134'EB' 136'EB' 138'EB' 140'EB' 142'EB' 144'EB' 146'EB' 148'EB'

USH 12/18 EB

5

5

VCL = 100.00'
K = 48.73

VCL = 100.00'
K = 36.56

VCL = 100.00'
K = 42.67

STA 437+75.00'LD'
EL 866.15

VPC STA 438+75.00'LD'
VPC EL 865.85

VPI STA 439+25.00'LD'
VPI EL 865.70

VPT STA 439+75.00'LD'
VPT EL 866.57

VPC STA 441+90.00'LD'
VPC EL 870.33

VPI STA 442+40.00'LD'
VPI EL 871.21

STA 442+53.98'LD'
HIGH POINT EL 870.89

VPT STA 442+90.00'LD'
VPT EL 870.72

VPC STA 444+65.00'LD'
VPC EL 868.99

STA 445+07.04'LD'
LOW POINT EL 868.79

VPI STA 445+15.00'LD'
VPI EL 868.50

VPT STA 445+65.00'LD'
VPT EL 869.18

EXISTING GROUND AT REF LINE

PROPOSED PROFILE AT REF LINE

-0.30% 1.75% -0.99% -0.46% 1.36% -0.48%

4.14% -1.91% -0.30% 1.63%

-2.29% 3.18% -1.44% 0.65%

STA 438+89.72'LD'
LOW POINT EL 865.83

SPECIAL DITCH PROFILE LT

SPECIAL DITCH PROFILE RT

STA 440+35'LD'
(1)-CPRC CLASS IV
24-INCH
SKEW 0.0°

STA 446+00'LD'
(1)-CPRC CLASS IV
18-INCH
SKEW 0.0°

890 885 880 875 870 865 860 855

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

866.47 866.70 866.81 866.86 866.88 866.73 866.54 866.29 866.09 866.07 866.03 865.92 865.94 865.84 866.17 866.20 866.67 867.01 867.37 867.88 868.30 868.76 869.16 869.63 869.29 870.50 869.14 870.89 869.14 870.62 869.10 870.13 872.29 869.63 873.96 869.14 867.99 868.79 869.86 869.00 877.37 869.65 876.41 870.33 875.99 871.01 875.78 871.69 872.02 872.37 872.15 873.05 876.48 873.73

434'LD' 436'LD' 438'LD' 440'LD' 442'LD' 444'LD' 446'LD' 448'LD'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: MAAHIC WAY	SHEET 602	E

FILE NAME : ...AWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 05 PLAN & PROFILE\050100_pp (PnP Long Dr North).dwg
PLOT DATE : 1/29/2022 9:13 PM
PLOT BY : SEH
LAYOUT NAME: 01
PLOT SCALE : 1.0 IN = 100.0 FT

CONTRACTOR SHALL MARK OUT THE LIMITS OF TREE REMOVALS AND GET ENGINEER APPROVAL PRIOR TO STARTING ANY REMOVALS.

STA 446+00'LD' TO STA 460+00'LD'
CLEARING AND GRUBBING REQ'D

DANE COUNTY PUBLIC WORKS RODEFELD LANDFILL

STA 463+26'LD', LT
RECONSTRUCT ASPH CE

MG&E ELEC
MUFN - FIBER
TLE (TYP)
LANDFILL DR
SLOPE INTERCEPT (TYP)
PROPERTY LINE (TYP)
END CONSTRUCTION
STA 10+80'LA'
MATCH EXISTING PAVEMENT
SAWCUT REQUIRED
LANDFILL DR
12'LA'
PROPOSED R/W (TYP)
SURCHARGE EARTH EMBANKMENT AREA
CITY OF MADISON STREETS
DELINEATED WETLANDS (TYP)
FRONTIER-TEL
MATCH LINE 449+00'LD'
MATCH LINE 464+00'LD'
450'LD' 452'LD' 454'LD' 456'LD' 458'LD' 460'LD' 462'LD' 464
MAAHIC WAY
ABANDONED SEWER
WISDOT ITS - FIBER
FRONTIER-TEL
EXISTING R/W (TYP)
WISDOT ITS - FIBER

150'WB' 152'WB' 154'WB' USH 12/18 WB 156'WB' 158'WB' 160'WB' 162'WB' 164
150'EB' 152'EB' 154'EB' USH 12/18 EB 156'EB' 158'EB' 160'EB' 162'EB' 164

890
885
880
875
870
865
860
855

VCL = 280.00'
K = 100.00
VCL = 150.00'
K = 104.05
VCL = 150.00'
K = 69.44

VPI STA 450+50.00'LD'
VPI EL 875.77
VPT STA 451+90.00'LD'
VPT EL 873.75
VPC STA 453+75.00'LD'
VPC EL 871.08
VPI STA 454+50.00'LD'
VPI EL 870.00
VPT STA 455+25.00'LD'
VPT EL 870.00
VPC STA 458+25.00'LD'
VPC EL 870.00
VPI STA 459+00.00'LD'
VPI EL 870.00
VPT STA 459+75.00'LD'
VPT EL 871.62
STA 463+00.00'LD'
EL 878.64

PROPOSED PROFILE AT REF LINE
-1.44%
SPECIAL DITCH PROFILE LT
-0.48%
0.00%
2.16%
1.89%
VPC STA 449+10.00'LD'
VPC EL 873.87
0.65%
-0.30%
STA 455+35'LD'
(1)-CPRC CLASS IV
30-INCH
SKEW 0.0°
0.83%
STA 450+45.83'LD'
HIGH POINT EL 874.79
SPECIAL DITCH PROFILE RT
EXISTING GROUND AT REF LINE
APPROXIMATE EBS AT REF LINE
EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

| | | |

STA 464+00'LD' TO STA 468+00'LD'
CLEARING AND GRUBBING REQ'D

CONTRACTOR SHALL MARK OUT THE LIMITS OF TREE REMOVALS AND GET ENGINEER APPROVAL PRIOR TO STARTING ANY REMOVALS.

STA 474+00'LD' TO STA 486+00'LD'
CLEARING AND GRUBBING REQ'D

MG&E - GAS
PROPERTY LINE (TYP)
MUFN - FIBER
MUFN - FIBER
DANE COUNTY PUBLIC WORKS RODEFELD LANDFILL
DANE COUNTY PUBLIC WORKS RODEFELD LANDFILL
TLE (TYP)
CITY OF MADISON STREETS
SLOPE INTERCEPT (TYP)
PROPOSED R/W (TYP)
EXISTING R/W (TYP)
MATCH LINE 464+00'LD'
MATCH LINE 479+00'LD'
WISDOT ITS - FIBER
MAAHIC WAY
CAUTION
USH 12/18 WB
USH 12/18 EB
SAN
W
FO
MW-AB
BORE
RB 208
RB 209
MWEL

'LD' 466'LD' 468'LD' 470'LD' 472'LD' 474'LD' 476'LD' 478'LD'

'WB' 166'WB' 168'WB' 170'WB' 172'WB' 174'WB' 176'WB' 178'WB'

'EB' 166'EB' 168'EB' 170'EB' 172'EB' 174'EB' 176'EB' 178'EB'

5

5

VCL = 90.00'
K = 64.85

VCL = 90.00'
K = 43.49

VCL = 110.00'
K = 53.15

VPC STA 469+70.00'LD'
VPC EL 891.29

VPI STA 470+15.00'LD'
VPI EL 892.14

VPT STA 470+60.00'LD'
VPT EL 892.36

VPC STA 470+80.00'LD'
VPC EL 892.36

STA 470+70.00'LD'
EL 892.41

VPI STA 471+25.00'LD'
VPI EL 892.14

VPT STA 471+70.00'LD'
VPT EL 890.98

VPC STA 475+45.00'LD'
VPC EL 881.35

VPI STA 476+00.00'LD'
VPI EL 879.93

VPT STA 476+55.00'LD'
VPT EL 879.66

STA 477+35.00'LD'
EL 879.26

1.89%
0.50%
-0.50%
-2.57%
-0.50%
0.50%
0.50%
0.83%

PROPOSED PROFILE AT REF LINE
EXISTING GROUND AT REF LINE
SPECIAL DITCH PROFILE RT
EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

905 900 895 890 885 880 875 870

886.65	880.53	888.59	881.47	890.58	882.42	893.13	883.36	895.60	884.30	897.64	885.25	898.11	886.19	899.10	887.14	899.66	888.08	899.76	889.02	900.61	889.97	901.08	890.91	898.65	891.79	896.14	892.31	893.06	892.22	890.64	891.45	888.93	890.21	887.91	888.93	886.82	887.64	884.46	886.36	882.97	885.07	881.26	883.79	879.83	882.50	878.61	881.22	877.51	880.22	877.34	879.69	876.50	879.43	875.84	879.33	875.82	879.58	875.44	879.83	875.24	880.08

464'LD' 466'LD' 468'LD' 470'LD' 472'LD' 474'LD' 476'LD' 478'LD'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: MAAHIC WAY	SHEET 604	E

CONTRACTOR SHALL MARK OUT THE LIMITS OF TREE REMOVALS AND GET ENGINEER APPROVAL PRIOR TO STARTING ANY REMOVALS.

STA 474+00'LD' TO STA 486+00'LD'
CLEARING AND GRUBBING REQ'D

MUFN - FIBER

ALLIANT ENERGY - ELEC

WISDOT ITS - FIBER

FRONTIER - FIBER

FRONTIER-TEL

ALLIANT ENERGY - GAS

TLE (TYP)

LANDFILL

DANE COUNTY PUBLIC WORKS RODEFELD LANDFILL

COUNTY POND

BLDG

CTH AB

PROPOSED R/W (TYP)

SLOPE INTERCEPT (TYP)

DELINEATED WETLANDS (TYP)

POND EX-N

STORM WATER POND

END CONSTRUCTION PROJECT 3080-01-76
BEGIN CONSTRUCTION PROJECT 3080-01-75
STA 486+21.25'LD'

MAAHIC WAY

WB ENTRANCE RAMP

CAUTION

EXISTING R/W (TYP)

USH 12/18 WB

MATCH LINE 479+00'LD'

5

5

N

180'WB' 182'WB' 184'WB' 186'WB' 188'WB' 190'WB' 192'WB' 194'WB'

480'LD' 482'LD' 484'LD' 486'LD' 488'LD' 490'LD' 492'LD' 494'LD'

895 890 885 880 875 870 865 860

VCL = 100.00'
K = 66.67

STA 482+00.00'LD'
EL 881.58

STA 484+25.00'LD'
EL 880.46

VPC STA 485+35.00'LD'
VPC EL 881.01

VPI STA 485+85.00'LD'
VPI EL 881.26

VPT STA 486+35.00'LD'
VPT EL 882.26

STA 486+97.80'LD'
EL 883.51

PROPOSED PROFILE AT REF LINE

EXISTING GROUND AT REF LINE

0.50% -0.50% 0.50% 2.00%

END CONSTRUCTION
PROJECT 3080-01-76
STA 486+21.25'LD'

BEGIN CONSTRUCTION
PROJECT 3080-01-75
STA 486+21.25'LD'

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

| | | |

DANE COUNTY

N

END CONSTRUCTION 3080-01-76
STA. 536+35.00'LL'
MATCH EXISTING
SAWCUT REQ'D

LUDS LANE

EXISTING R/W

PROPOSED EASEMENT

536'LL'

MICHAEL R NIEBUHR

JERRY M & BARBARA J MOORE

FRONTIER -
2 - TEL

OBSCURE

PROPERTY LINE (TYP)

ALLIANT ENERGY -
ELEC

CTH AB

BEGIN CONSTRUCTION 3080-01-76
STA. 528+41.50'LL'

STA. 532+50'LL' TO STA. 535+50'LL', LT & RT
CLEARING AND GRUBBING REQ'D

SLOPE INTERCEPT

534'LL'

528'LL'

530'LL'

532'LL'

LUDS LANE

DIRT PILE

STA. 534+65'LL', RT
PE REQ'D PER SDD 8D21
1-18" CP CL III-A REQ'D
2-ENDWALLS REQ'D
LENGTH: 42'

CE CONSTRUCTED BY
OTHERS

PROPOSED R/W

COPART OF CONNECTICUT INC

DANE COUNTY WASTE & RENEWABLES

5

5

905
900
895
890
885
880
875
870

STA 528+56.17'LL'
EL 893.38

STA 528+45.88 'LL'
EL 889.90

STA 528+59.04 'LL'
EL 892.09

STA 530+00.00 'LL'
EL 894.20

PROPOSED PROFILE

EXISTING PROFILE

LT SPECIAL DITCH

1.50%

19.98%

4.58%

0.53%

0.50%

VPC STA 532+95.00 'LL'
VPC EL 895.68

VPI STA 533+55.00 'LL'
VPI EL 895.98

VPT STA 534+15.00 'LL'
VPT EL 893.58

HP STA 533+08.33
HP EL 895.71

VCL = 100.00
K = 27.64

VCL = 120.00
K = 26.67

-4.00%

-0.38%

VPC STA 535+30.00 'LL'
VPC EL 888.98

VPI STA 535+80.00 'LL'
VPI EL 886.98

VPT STA 536+30.00 'LL'
VPT EL 886.79

STA 536+35.00 'LL'
EL 886.77

STA 530+00.00'LL'
(1) - 50' CP CL III-A 18-INCH REQ'D
(2) - APRON ENDWALLS REQ'D

EXISTING PROFILE ELEVATION
PROPOSED PROFILE ELEVATION

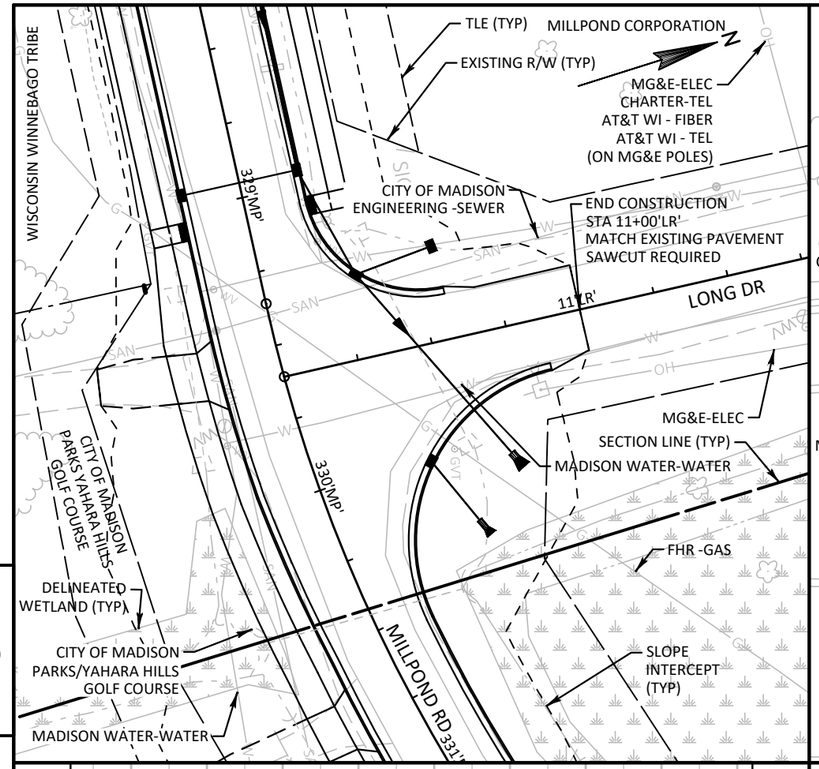
						887.66	890.93	890.73	890.16	892.70	889.63	893.45	889.85	894.20	890.54	894.45	890.74	894.70	891.15	894.96	891.82	895.20	892.58	895.46	893.48	895.70	892.75	895.39	890.22	894.14	888.30	892.18	886.64	890.18	887.14	888.25	887.10	887.07	886.79	887.20						
525		526		527		528		529		530		531		532		533		534		535		536		537		538		539				

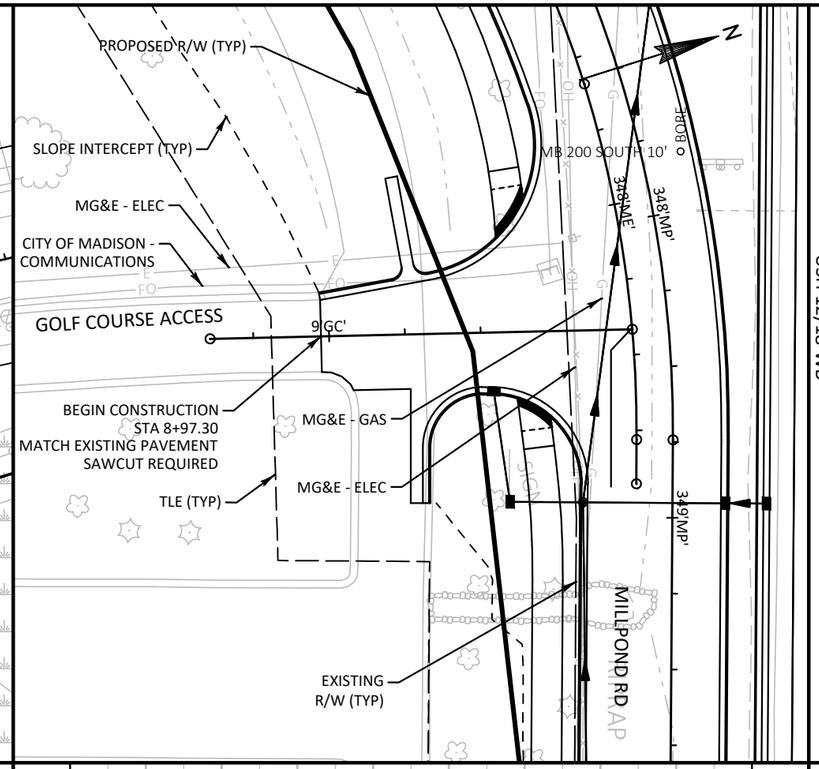
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: LUDS LANE	SHEET 606	E

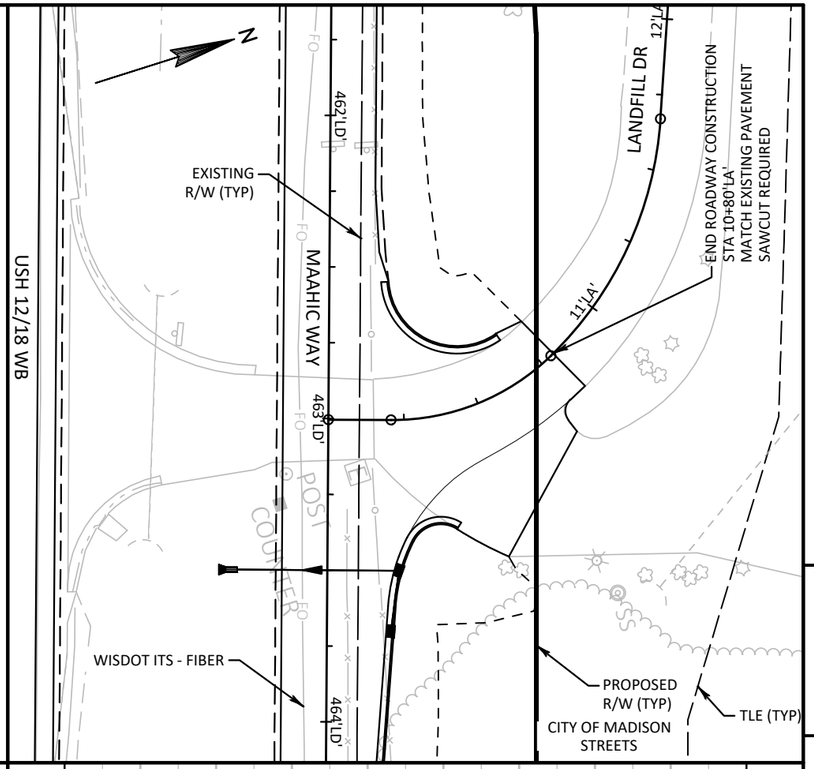
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050107_PP_LUDS LANE.DWG
LAYOUT NAME - LUDS LANE

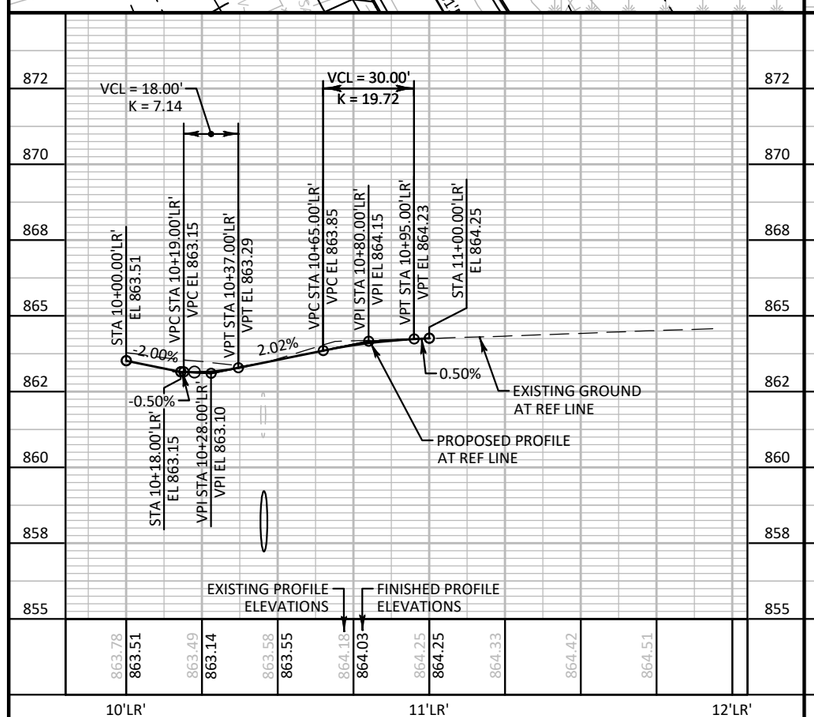
PLOT DATE : 1/27/2022 4:54 PM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:100 FT

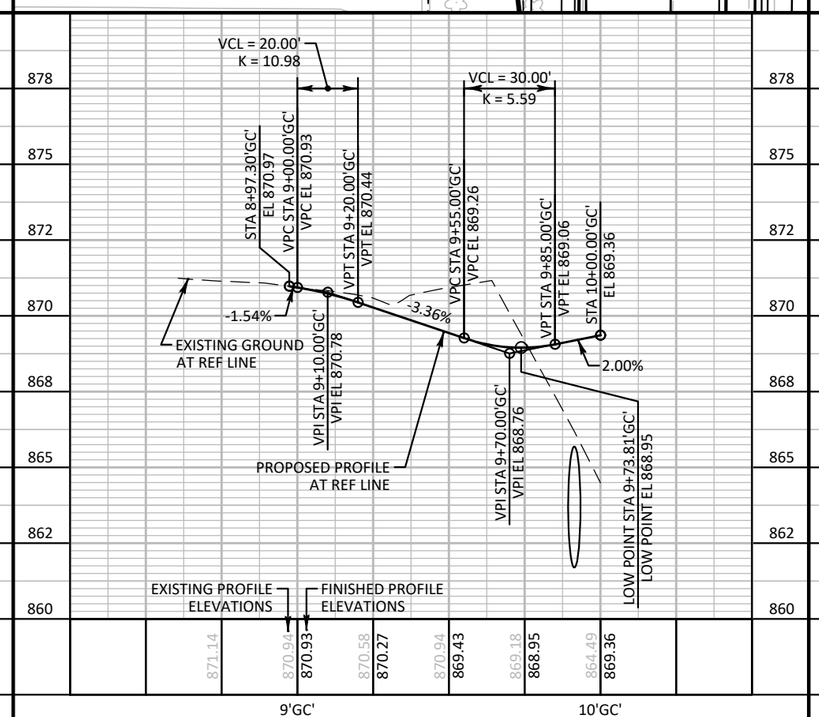
WISDOT/CADDS SHEET 44

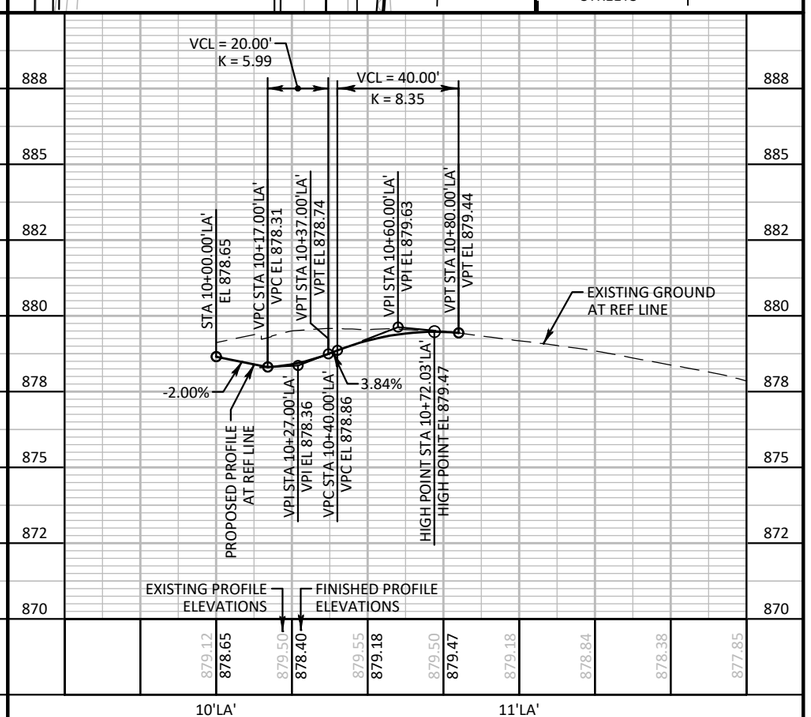




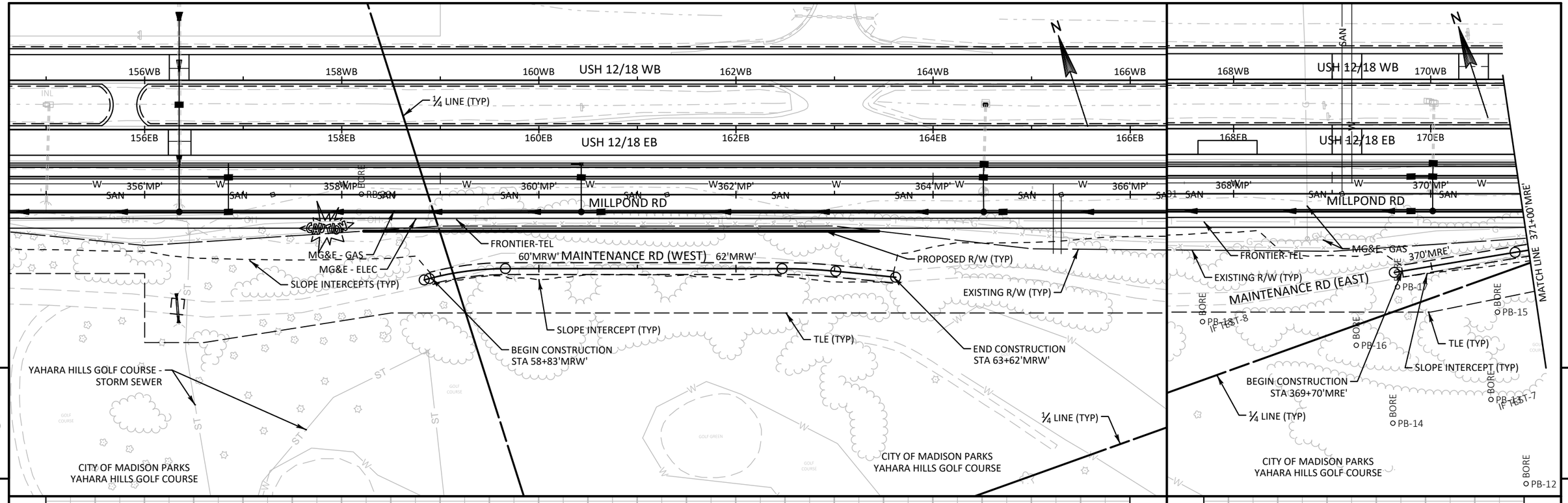


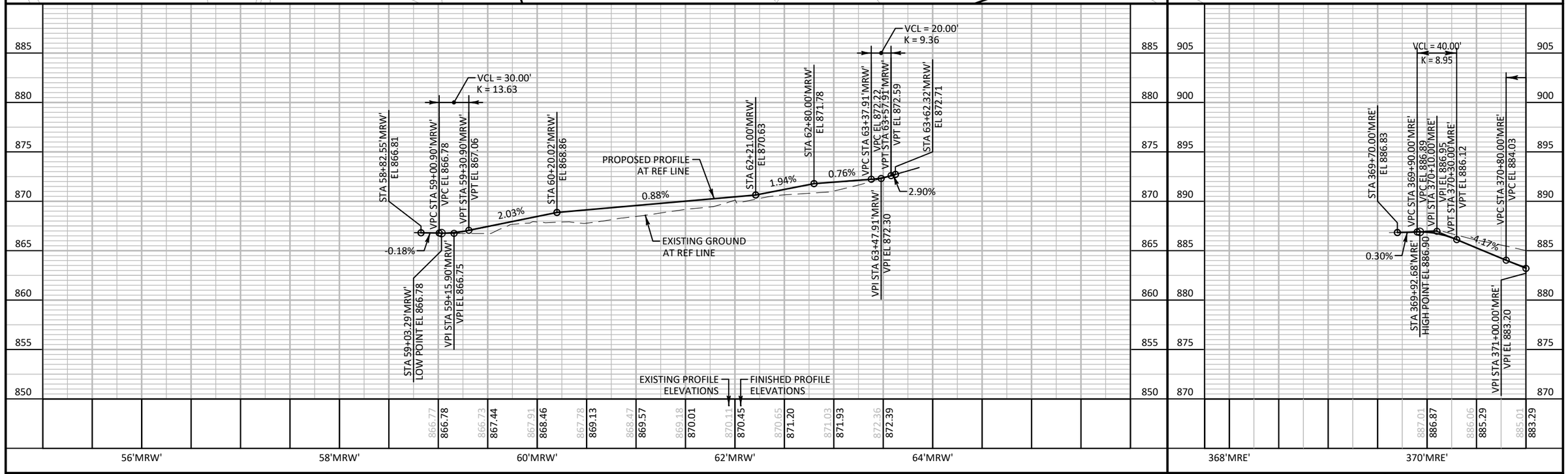






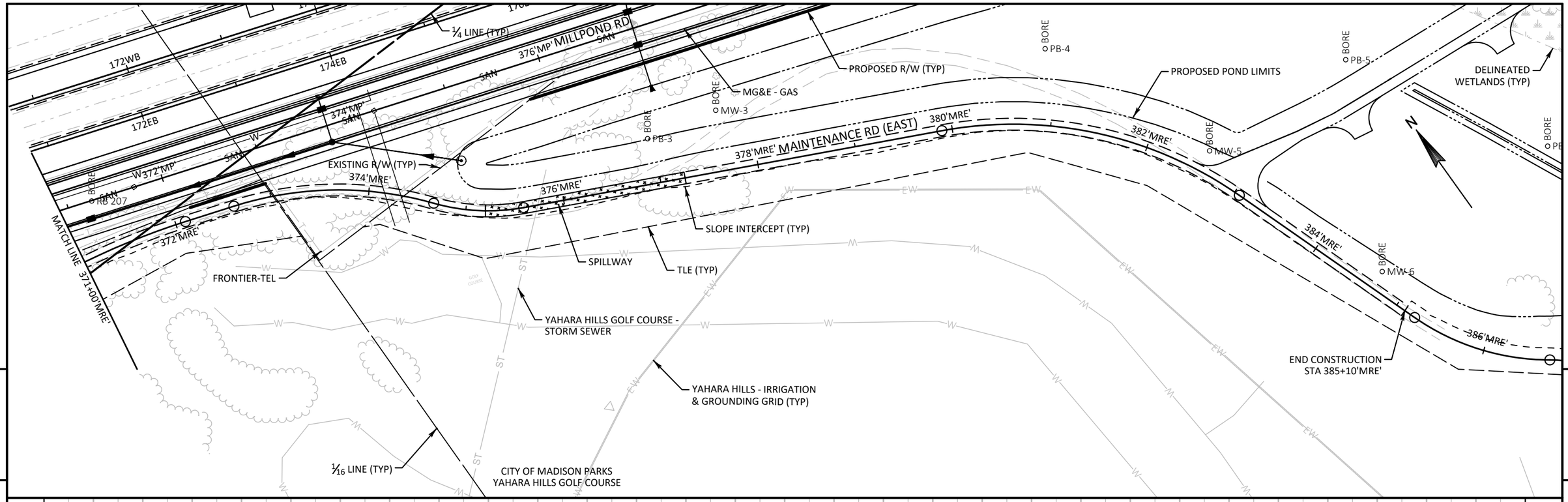
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: LONG DRIVE (SOUTH) - GOLF COURSE & LANDFILL DR	SHEET 607 E

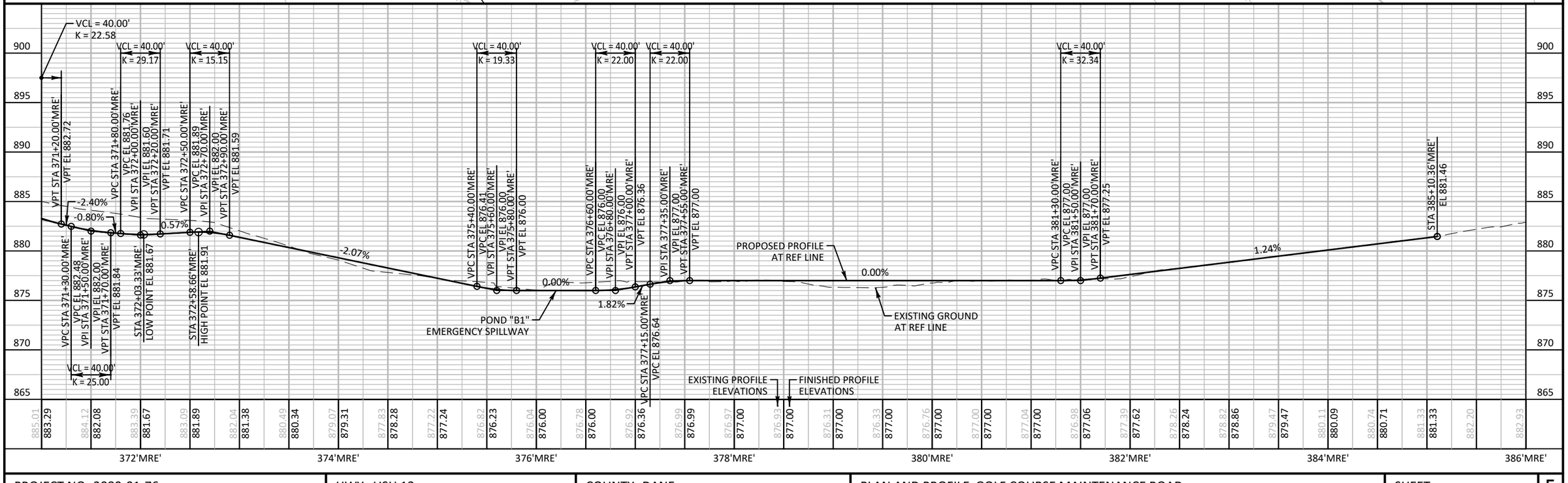




PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: GOLF COURSE MAINTENANCE ROAD	SHEET 608	E

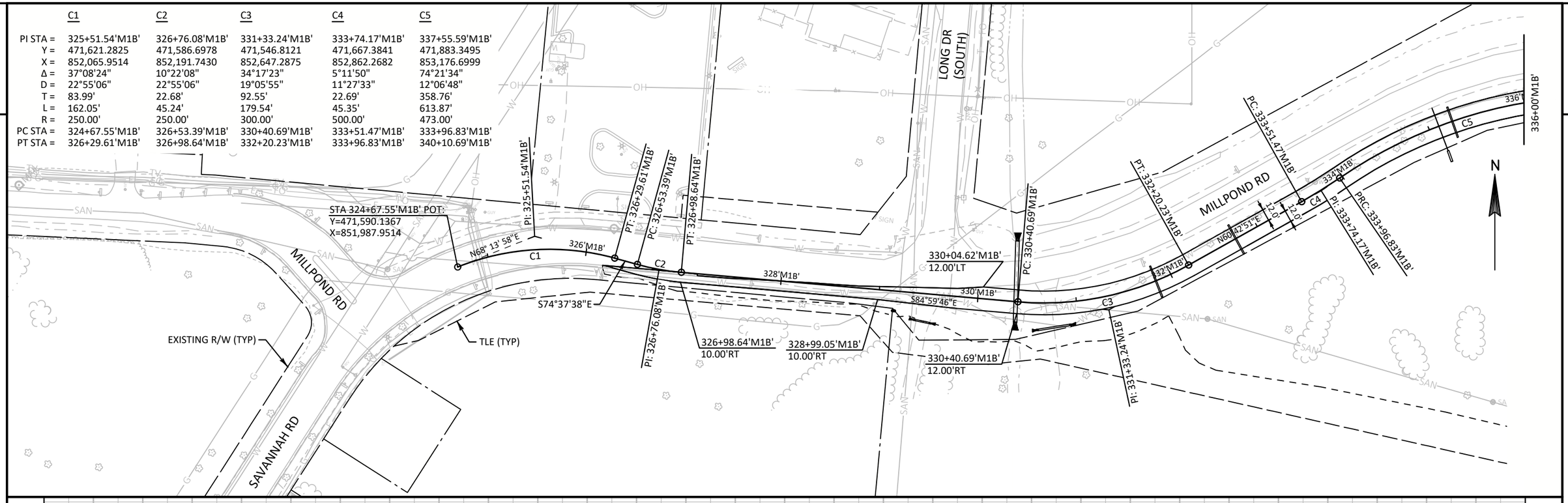
FILE NAME : ...AWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 05 PLAN & PROFILE\050100_pp (PnP Golf Course).dwg
PLOT DATE : 3/10/2022 8:45 AM
PLOT BY :
LAYOUT NAME: 01
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 44

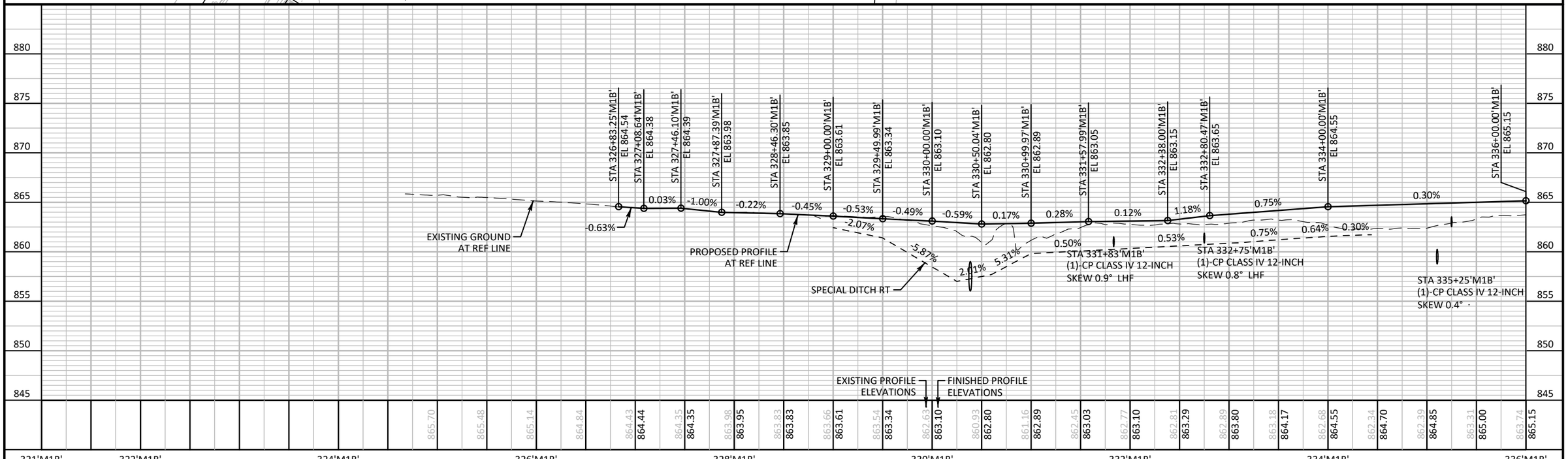




PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: GOLF COURSE MAINTENANCE ROAD	SHEET 609 E

	C1	C2	C3	C4	C5
PI STA =	325+51.54'M1B'	326+76.08'M1B'	331+33.24'M1B'	333+74.17'M1B'	337+55.59'M1B'
Y =	471,621.2825	471,586.6978	471,546.8121	471,667.3841	471,883.3495
X =	852,065.9514	852,191.7430	852,647.2875	852,862.2682	853,176.6999
Δ =	37°08'24"	10°22'08"	34°17'23"	5°11'50"	74°21'34"
D =	22°55'06"	22°55'06"	19°05'55"	11°27'33"	12°06'48"
T =	83.99'	22.68'	92.55'	22.69'	358.76'
L =	162.05'	45.24'	179.54'	45.35'	613.87'
R =	250.00'	250.00'	300.00'	500.00'	473.00'
PC STA =	324+67.55'M1B'	326+53.39'M1B'	330+40.69'M1B'	333+51.47'M1B'	333+96.83'M1B'
PT STA =	326+29.61'M1B'	326+98.64'M1B'	332+20.23'M1B'	333+96.83'M1B'	340+10.69'M1B'





PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: TEMPORARY MILLPOND RD 'M1B'	SHEET 610	E

FILE NAME : ...AWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\TRAFFIC CONTROL\025200_pp (TC PnP Millpond Rd S Bypass).dwg

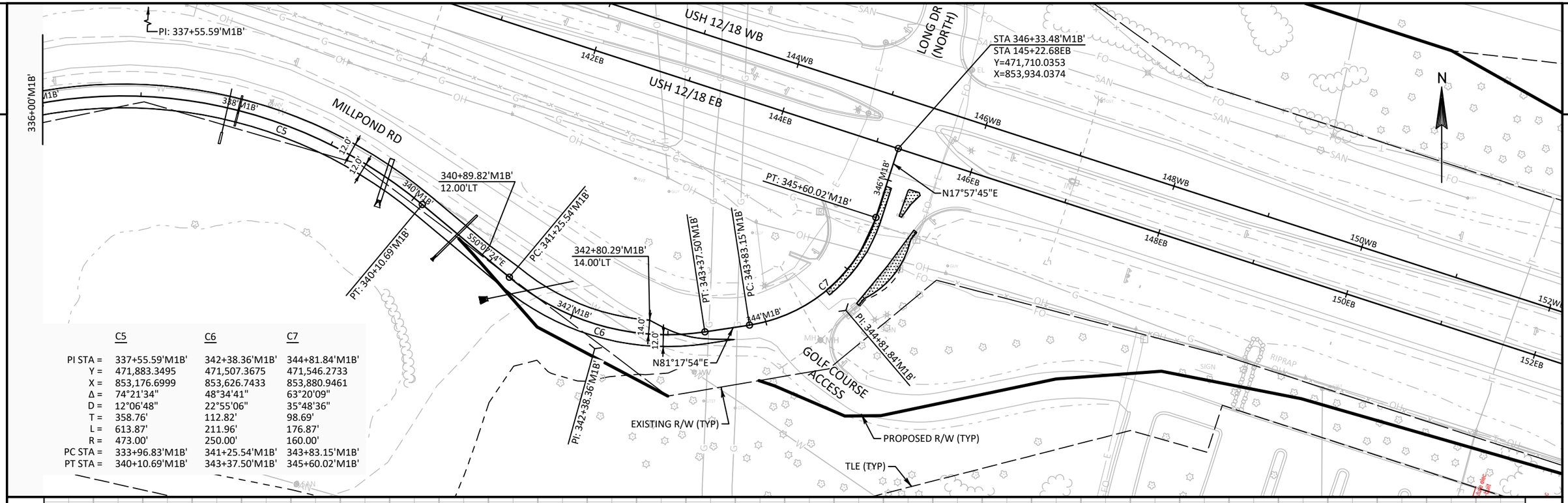
PLOT DATE : 5/25/2022 4:15 PM

PLOT BY :

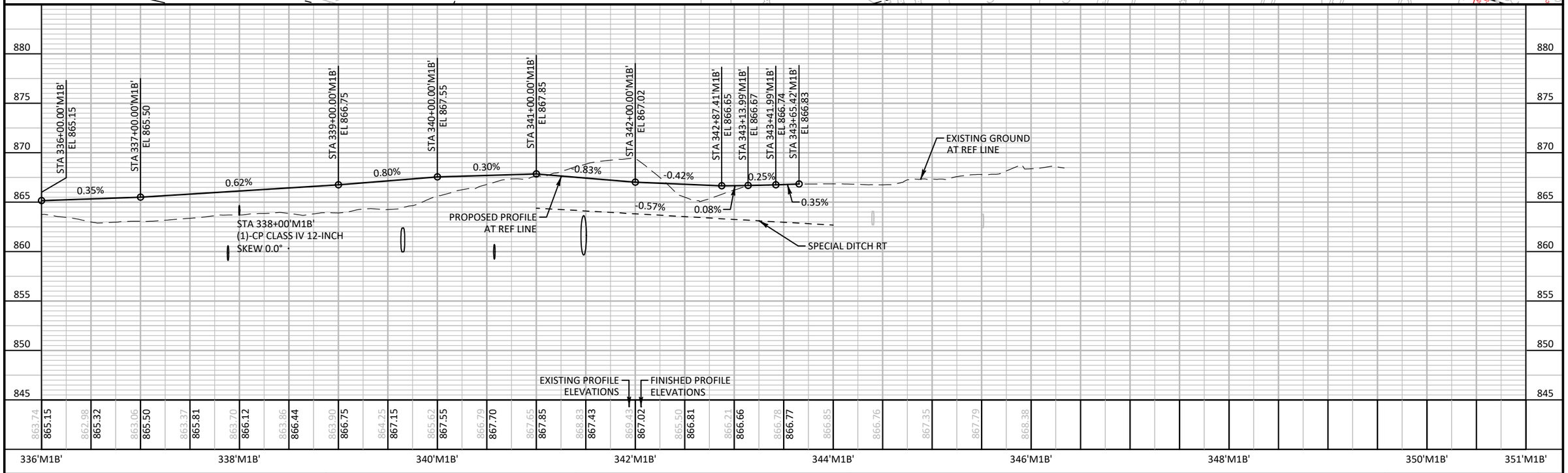
LAYOUT NAME: 01

PLOT SCALE : 1.0 IN = 100.0 FT

WISDOT/CADDS SHEET 44



	C5	C6	C7
PI STA =	337+55.59'M1B'	342+38.36'M1B'	344+81.84'M1B'
Y =	471,883.3495	471,507.3675	471,546.2733
X =	853,176.6999	853,626.7433	853,880.9461
Δ =	74°21'34"	48°34'41"	63°20'09"
D =	12°06'48"	22°55'06"	35°48'36"
T =	358.76'	112.82'	98.69'
L =	613.87'	211.96'	176.87'
R =	473.00'	250.00'	160.00'
PC STA =	333+96.83'M1B'	341+25.54'M1B'	343+83.15'M1B'
PT STA =	340+10.69'M1B'	343+37.50'M1B'	345+60.02'M1B'



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: TEMPORARY MILLPOND RD 'M1B'	SHEET 611 E

2

MILLPOND RD

USH 12/18 WB

USH 12/18 EB

LONG DR (NORTH)

N

STA 339+56.82'M4A' POT:
Y=471,729.3792
X=853,408.2764

340+00.96'M4A'
12.00'LT

340'M4A'

S59°24'48"E

12.0

342'M4A'

PC: 342+09.73'M4A'

R=255.3'

342+00.75'M4A'
12.00'LT

C8

342+83.21'M4A'
16.34'LT

PI: 342+99.12'M4A'

PC: 343+77.85'M4A'

344'M4A'

12.0

2.0

343+66.30'M4A'
12.00'LT

N72°25'28"E

343+39.76'M4A'
15.46'RT

PC: 344+49.08'M4A'

PI: 345+02.62'M4A'

C9

345+23.29'M4A'
14.22'RT

PT: 345+53.70'M4A'

346'M4A'

12.0

12.0

S71°36'14"E

346+84.87'M4A'
12.00'RT

PC: 347+69.27'M4A'

PI: 347+89.59'M4A'

PT: 348+09.88'M4A'

348+19.84'M4A'
12.00'LT

C10

348'M4A'

S72°02'16"E

STA 349+65.50'M4A' POT:
Y=471,503.4830
X=854,357.1448

148WB

150WB

152WB

142EB

144WB

144EB

146WB

146EB

150EB

152EB

EXISTING R/W (TYP)

PROPOSED R/W (TYP)

TLE (TYP)

GOLF COURSE ACCESS

	C8	C9	C10
PI STA =	342+99.12'M4A'	345+02.62'M4A'	347+89.59'M4A'
Y =	471,555.2038	471,619.8705	471,557.7397
X =	853,702.9475	853,907.1038	854,189.7845
Δ =	48°09'44"	29°58'18"	5°33'58"
D =	28°38'52"	28°38'52"	13°42'26"
T =	89.39'	53.54'	20.32'
L =	168.12'	104.62'	40.61'
R =	200.00'	200.00'	418.00'
PC STA =	342+09.73'M4A'	344+49.08'M4A'	347+69.27'M4A'
PT STA =	343+77.85'M4A'	345+53.70'M4A'	348+09.88'M4A'

885
880
875
870
865
860
855
850

STA 342+65.00'M4A'
EL 866.48

STA 343+00.00'M4A'
EL 866.19

STA 343+30.00'M4A'
EL 865.99

STA 343+60.00'M4A'
EL 865.90

STA 343+90.00'M4A'
EL 866.01

STA 344+10.00'M4A'
EL 866.15

STA 344+52.00'M4A'
EL 866.44

STA 344+92.40'M4A'
EL 867.30

STA 345+00.00'M4A'
EL 867.40

STA 345+33.00'M4A'
EL 867.20

STA 346+75.00'M4A'
EL 867.04

STA 347+33.70'M4A'
EL 868.10

-0.82%
-0.30%
0.37%
0.70%
0.68%
2.13%
1.14%
-0.11%
1.79%
-0.59%
-0.66%

PROPOSED PROFILE AT REF LINE

EXISTING GROUND AT REF LINE

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

| | | |

Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-02	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08A09-02	CATCH BASINS 2X3-FT AND 2.5X3-FT
08B09-03	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08B10-02	MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08D18-02	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09D05-02	L30 LIGHTING CONTROL CABINET 240/480 VOLT
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09H03-01	2 CIRCUIT METER BREAKER PEDESTAL
09H09-02	COMMUNICATION VAULT TYPE 1
10A01-03	ELECTRICAL HANDHOLE WIRING
10A05-03	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES ISOLATED NEUTRAL SYSTEMS
10A08-03	ELECTRICAL DETAILS STRUCTURE MOUNT LIGHT POLES ISOLATED NEUTRAL SYSTEMS
10A18-05A	LUMINAIRE ARMS, SINGLE MEMBER 6-INCH CLAMP
11A01-06	MAINTENANCE CROSSOVER FOR FREEWAYS
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13A03-06	CONCRETE PAVEMENT SHOULDERS
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13B02-09B	STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C09-15A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-15B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-15C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C11-12A	RURAL DOWELED CONCRETE PAVEMENT
13C11-12B	RURAL DOWELED CONCRETE PAVEMENT
13C13-09	URBAN DOWELED CONCRETE PAVEMENT
13C17-01A	CONCRETE JOINT DETAIL FOR EXIT RAMP TERMINI
13C17-01B	CONCRETE JOINT DETAIL FOR ENTRANCE RAMP TERMINI
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT

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Standard Detail Drawing List

13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C18-07E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
13C18-07F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
13C18-07G	CONCRETE PAVEMENT JOINTING ACCELERATION/DECELERATION LANE
13C19-03	HMA LONGITUDINAL JOINTS
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B26-04A	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-04B	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-04C	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-04D	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-04E	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-04F	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-04G	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-04H	STEEL THRIE BEAM BULLNOSE TERMINAL
14B29-01	SAFETY EDGE
14B32-09A	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-09B	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-09C	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-09D	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-09E	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-09F	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-09G	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-09H	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B33-02A	CONCRETE BARRIER SINGLE SLOPE 32" THRIE BEAM ANCHOR
14B33-02B	CONCRETE BARRIER SINGLE SLOPE 32" THRIE BEAM ANCHOR
14B33-02C	CONCRETE BARRIER SINGLE SLOPE 32" THRIE BEAM ANCHOR
14B33-02D	CONCRETE BARRIER SINGLE SLOPE 36" THRIE BEAM ANCHOR
14B33-02E	CONCRETE BARRIER SINGLE SLOPE 36" THRIE BEAM ANCHOR
14B33-02F	CONCRETE BARRIER SINGLE SLOPE 36" THRIE BEAM ANCHOR
14B33-02G	CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR
14B33-02H	CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A04-07A	FLEXIBLE DELINEATOR POST

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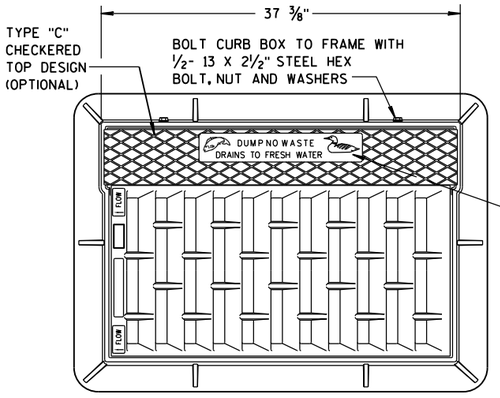
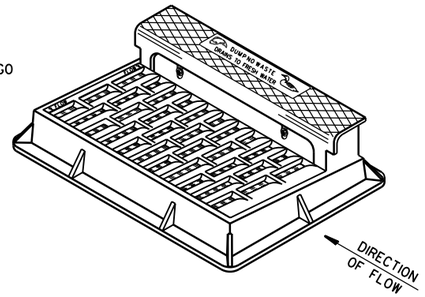
Standard Detail Drawing List

15A04-07B	BARRIER WALL DELINEATOR WITH REFLECTIVE SHEETING
15A04-07C	DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A04-07D	CHANNELIZING DEVICES, PERMANENT FLEXIBLE TUBULAR MARKER POST
15A04-07E	DELINEATOR POST WITH REFLECTIVE SHEETING
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15B11-01A	WOOD GATE, SINGLE LEAF
15B11-01B	WOOD GATE, SINGLE LEAF
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15D	ROUNDABOUT ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-09A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-08	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-05A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-05B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C18-05C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-06C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C20-02	YIELD MARKING
15C26-04	END-OF-ROADWAY SIGNING
15C31-04A	PAVEMENT MARKING EXIT RAMP AND PARALLEL EXIT RAMP
15C31-04C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15C31-04D	PAVEMENT MARKING SERVICE INTERCHANGE LANE DROP AND LANE REDUCTION MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE
15D15-05A	TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-05D	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-05E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-06	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D37-03	TRAFFIC CONTROL, 2-LANE ROUNDABOUT
15D40-02B	TRAFFIC CONTROL, FULL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D40-02D	TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D41-01	TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTILANE DIVIDED ROAD
15D42-01	TRAFFIC CONTROL, TWO LANE FULL FREEWAY CLOSURE
15D43-02	TRAFFIC CONTROL, SHORT DURATION MOBILE OPERATIONS
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL
15D47-01B	TRAFFIC CONTROL, INGRESS/EGRESS WITHOUT BARRIER
15D48-01	TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

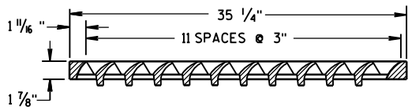
6

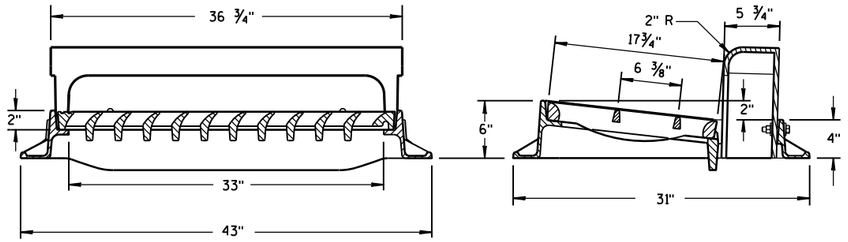


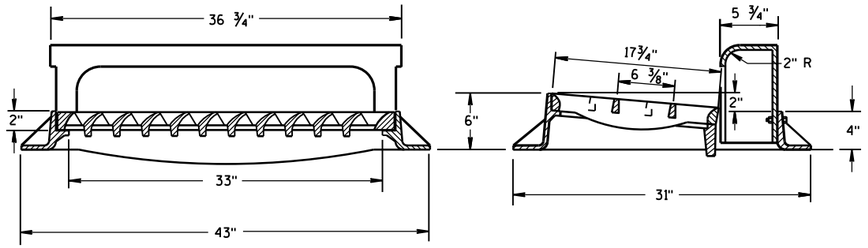
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

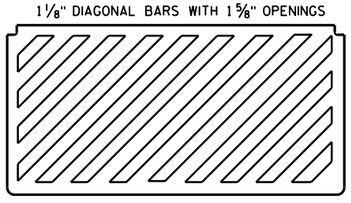






TYPE "H"

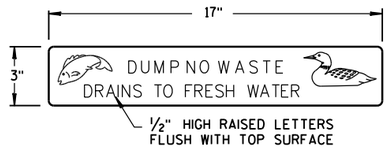
NOTE: EITHER CASTING IS ACCEPTABLE



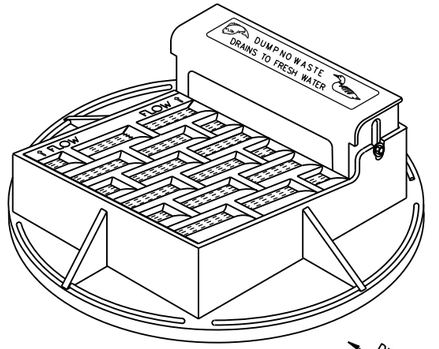
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

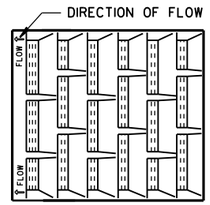
NOTE:
GRATE IS REVERSIBLE.

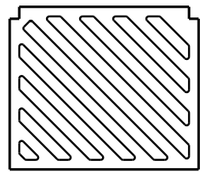
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

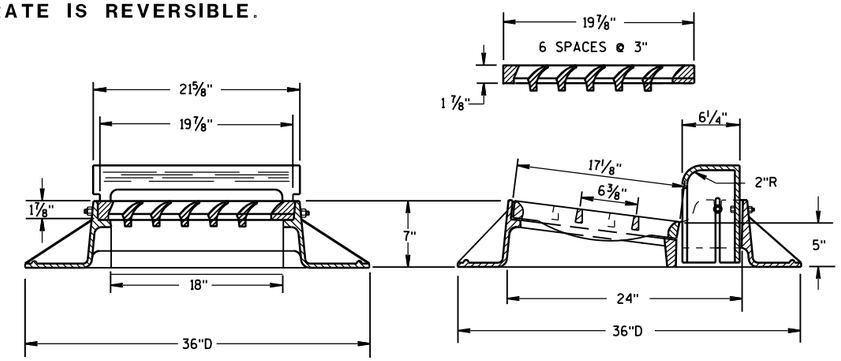




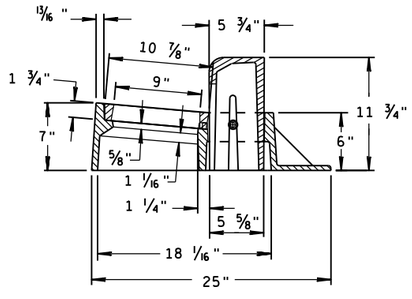
SPECIAL GRATE FOR TYPE "A" COVER

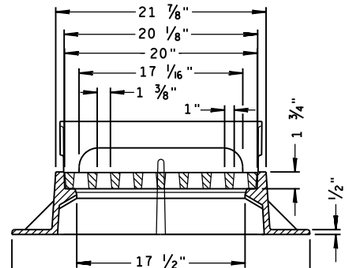
(MEASURES 19 3/4" X 17" X 1 7/8")

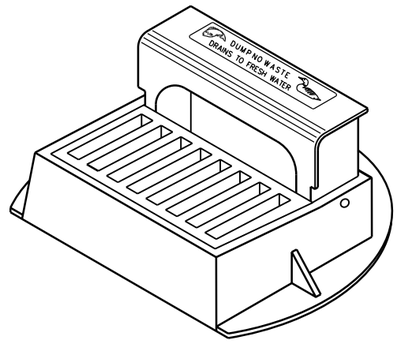
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

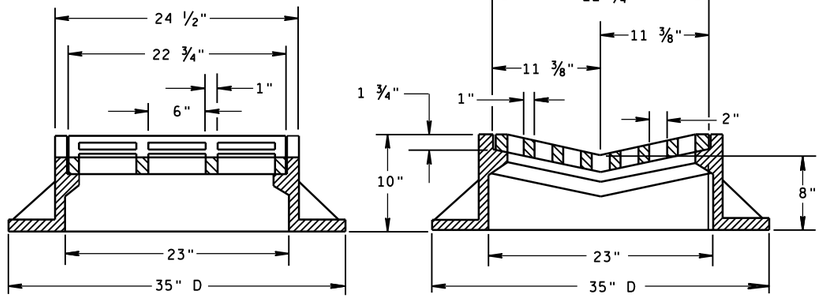
INLET COVERS
TYPE A, H, A-S, H-S & Z

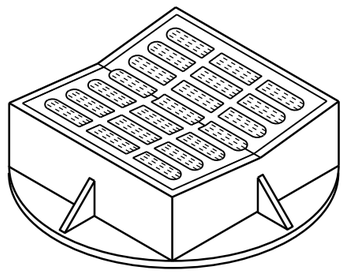
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

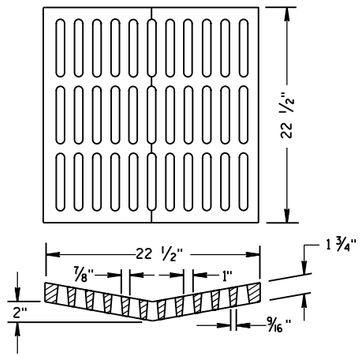
6

S.D.D. 8 A 5-19a



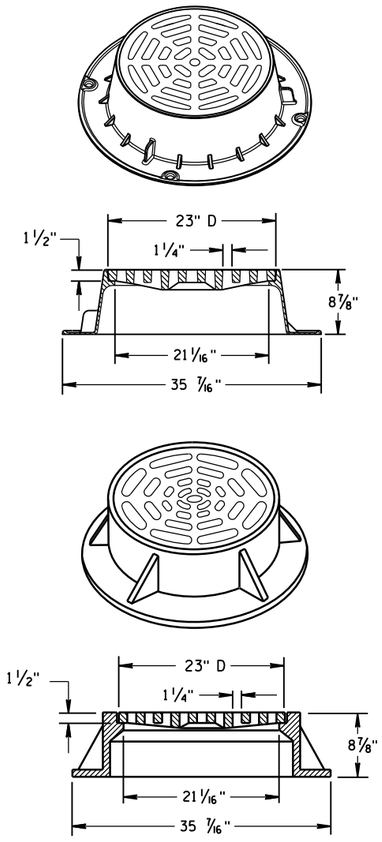


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

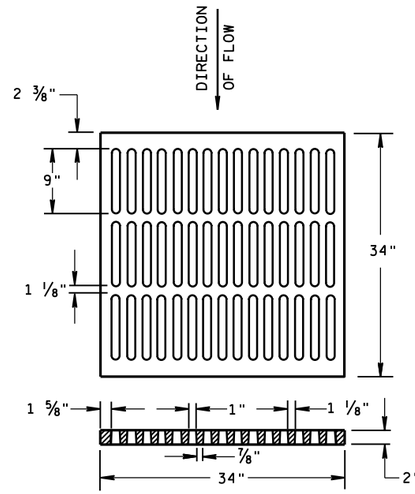
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

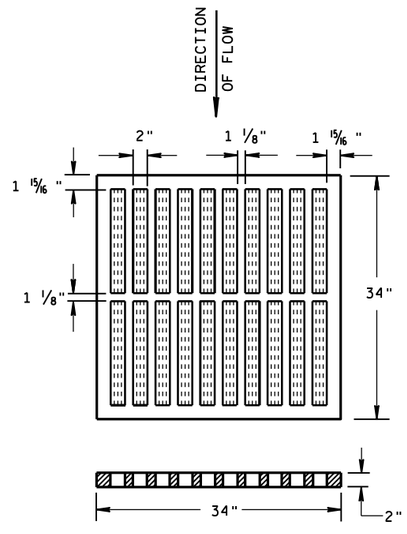
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



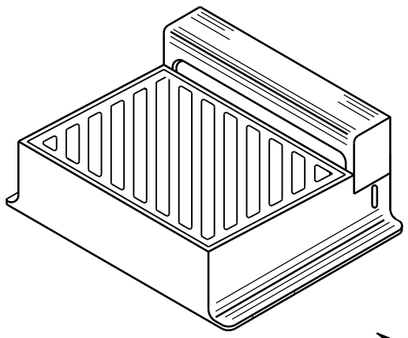
ALTERNATIVE TYPE "MS"

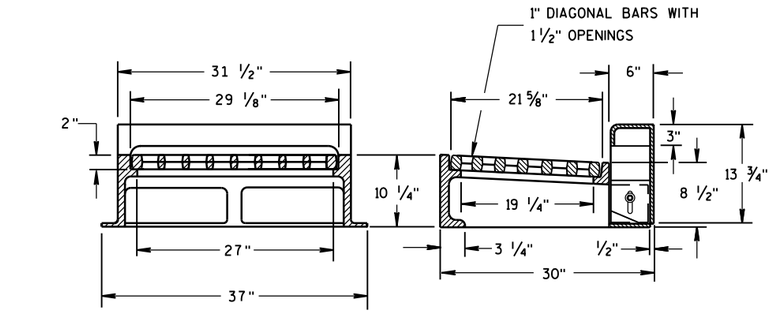
USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE





NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.

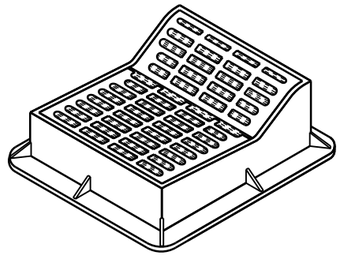
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

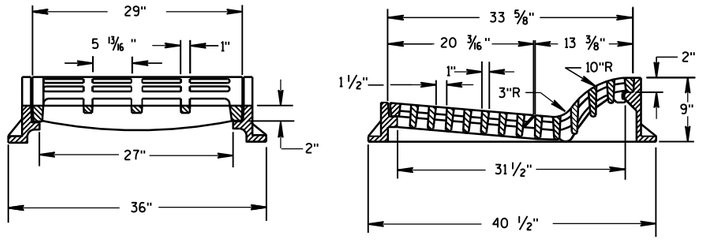
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

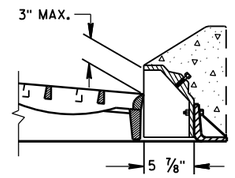
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

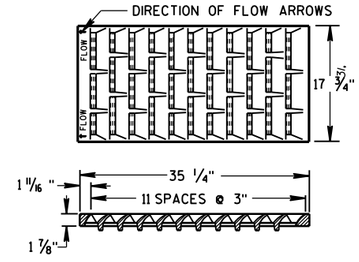
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

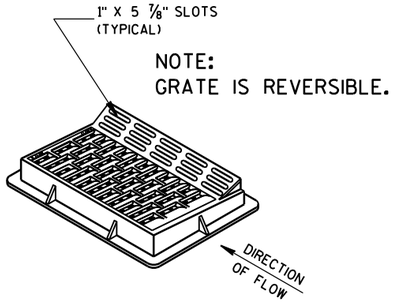
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

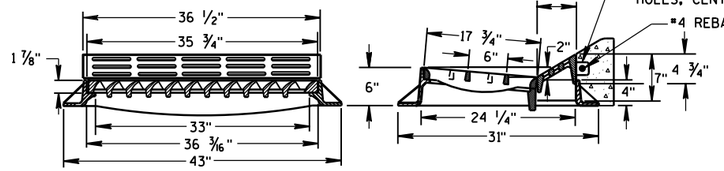
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



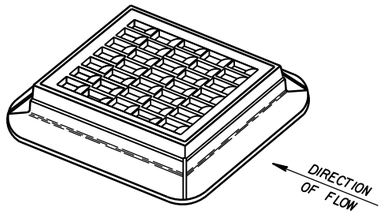


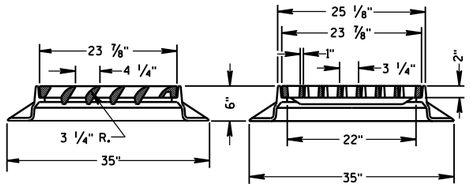


TYPE "HM"

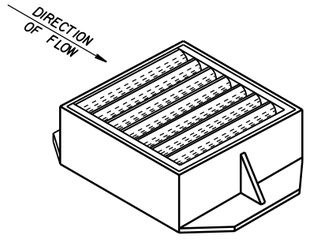
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

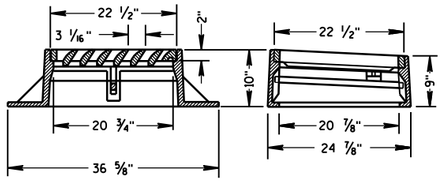
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



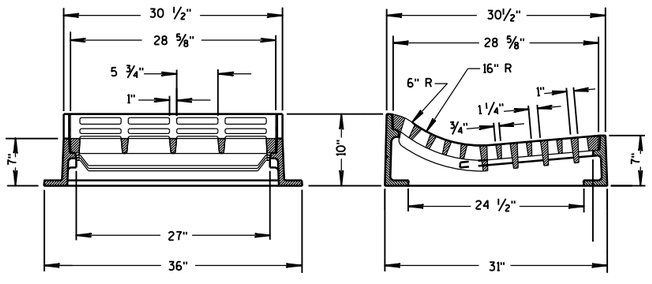


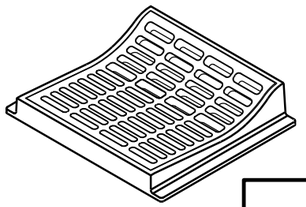
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

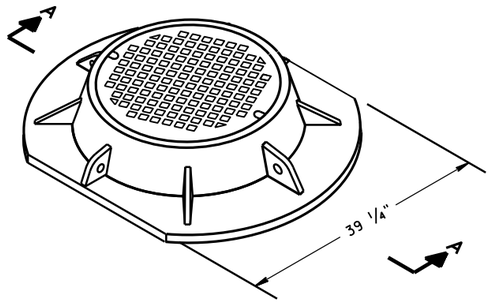
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

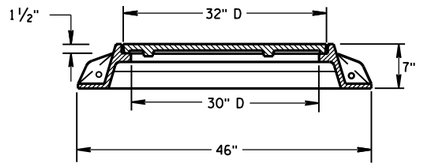
618

FHWA

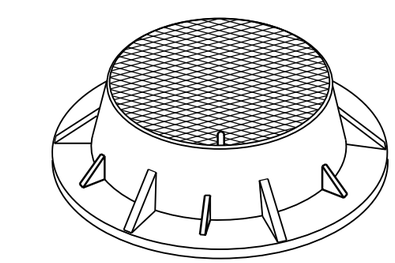
6

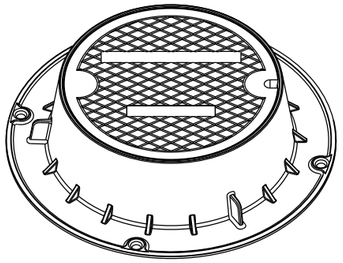
S.D.D. 8 A 5-19c

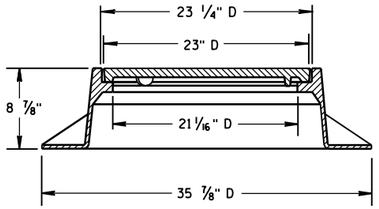


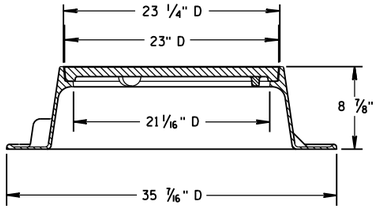


SECTION A-A
TYPE "K"









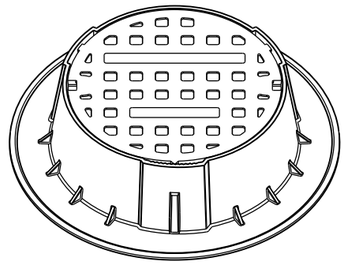
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

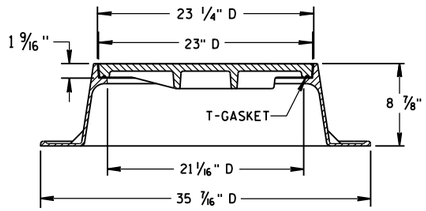
GENERAL NOTES

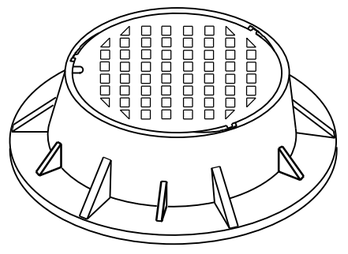
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

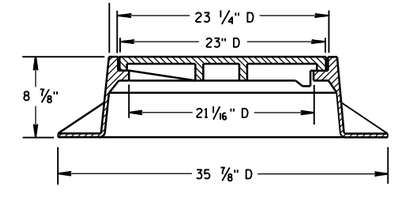
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

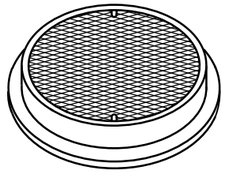


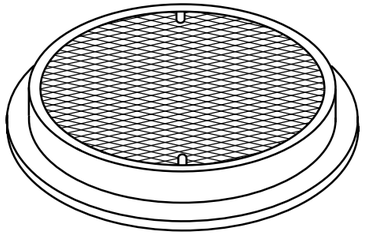


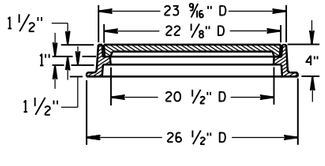




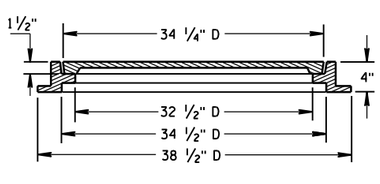
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



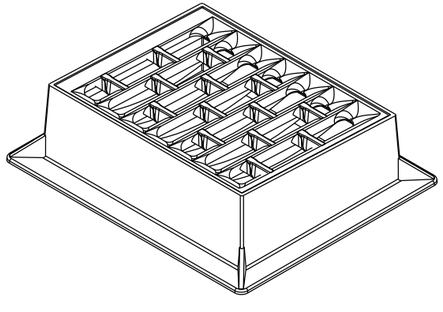


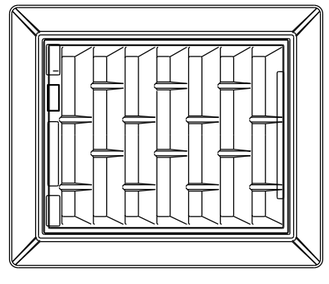


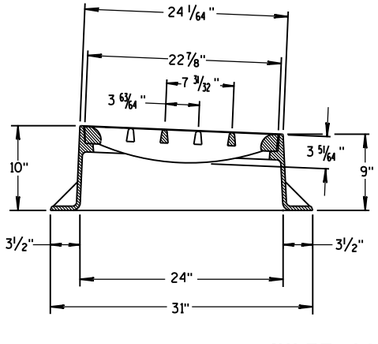
TYPE "L"

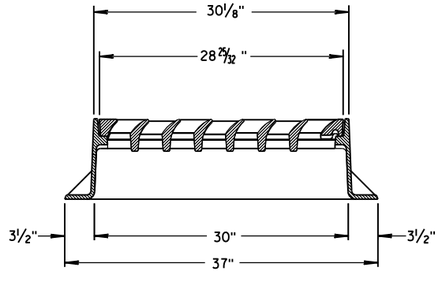


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

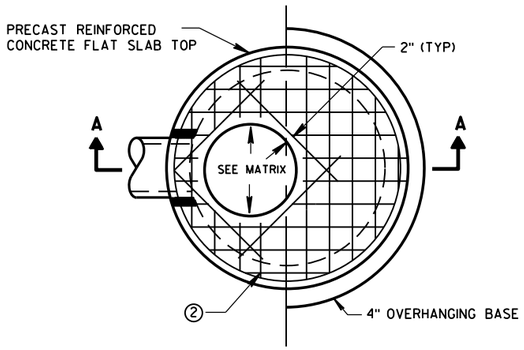
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

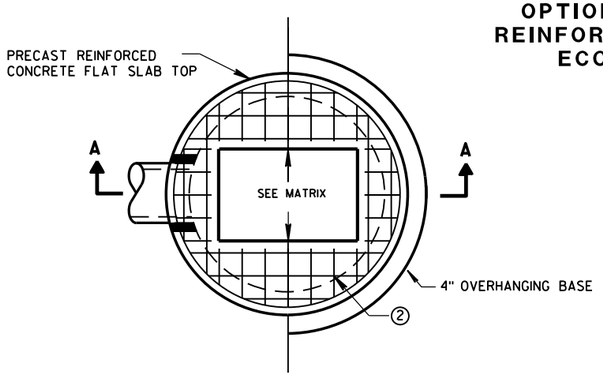
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

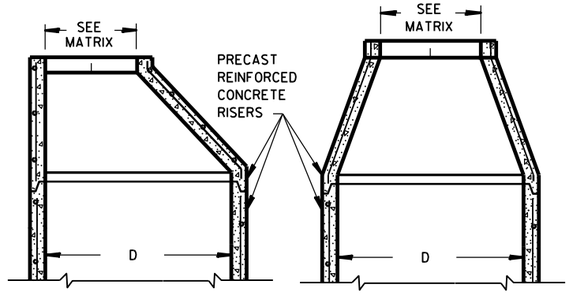
S.D.D. 8 A 5-19d



PLAN VIEW CIRCULAR OPENING

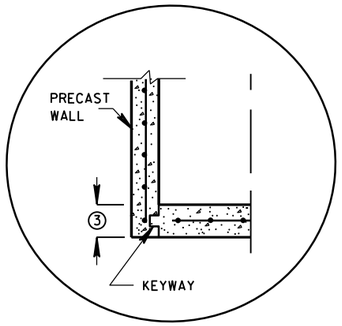


PLAN VIEW RECTANGULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

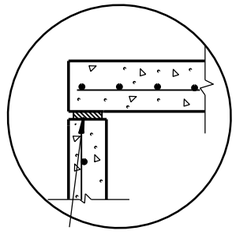
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



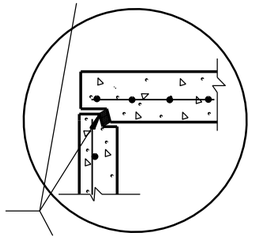
PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

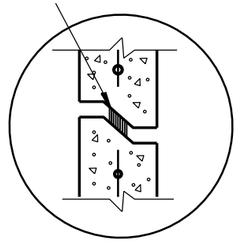


TOP WITH PLAIN END JOINT



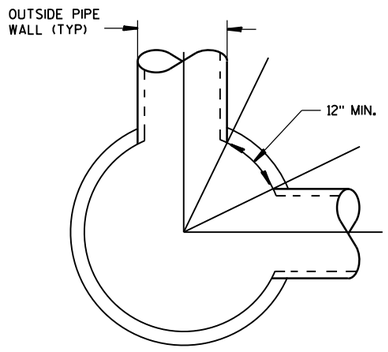
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT

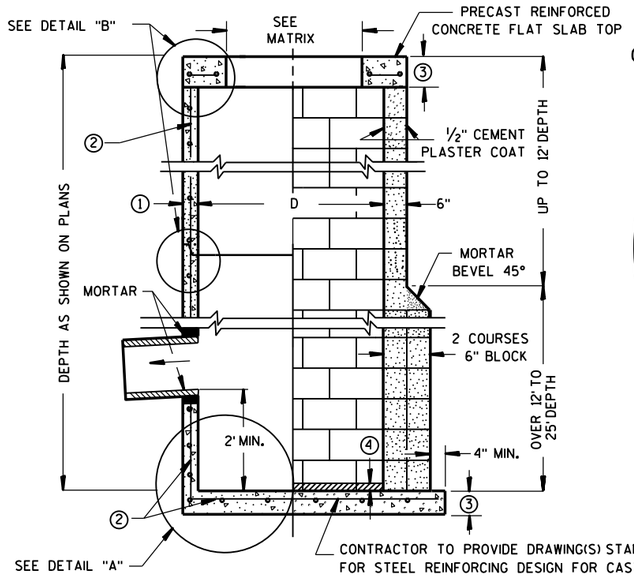


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



DETAIL "C"



CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

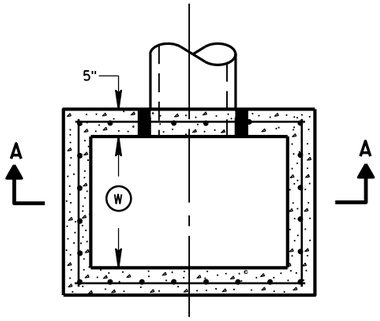
PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

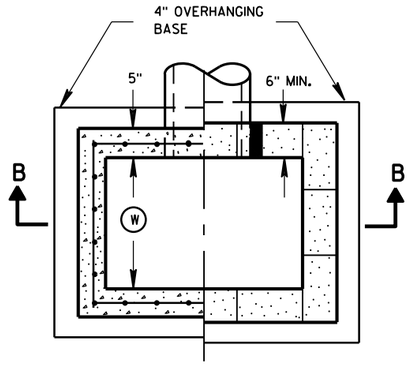
CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

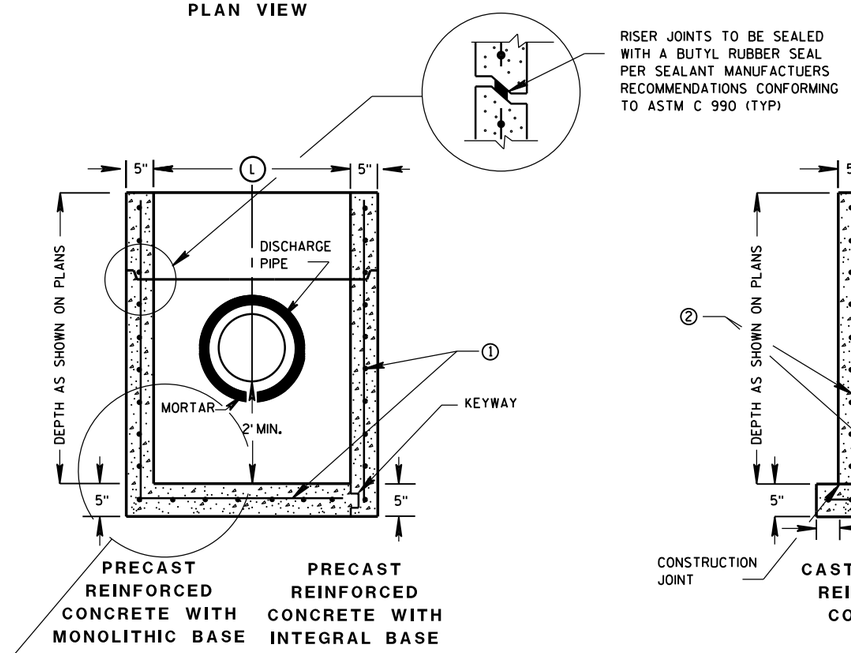
APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI
FHWA



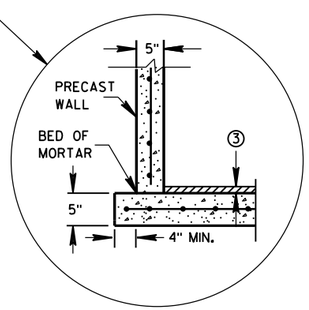
PLAN VIEW



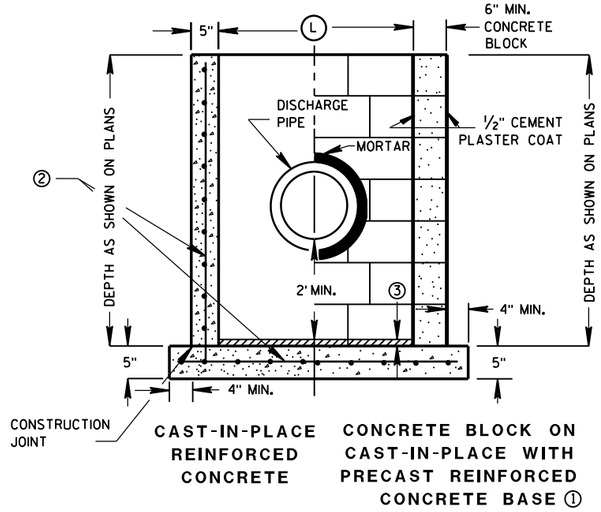
PLAN VIEW



SECTION A-A



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST CATCH BASIN UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

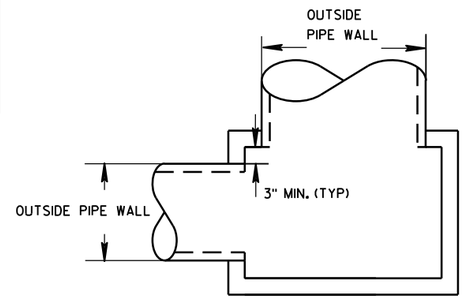
③ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER TYPE	F	ALL H'S
	WIDTH (W) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		X
2.5X3-FT	2.5	3	X	

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

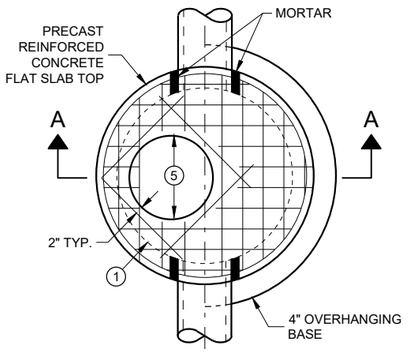
CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

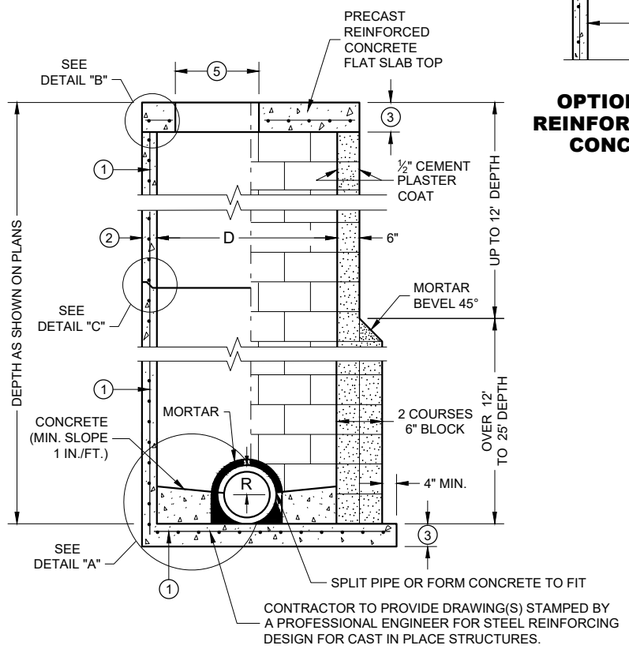
APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

S.D.D. 8 A 9-2



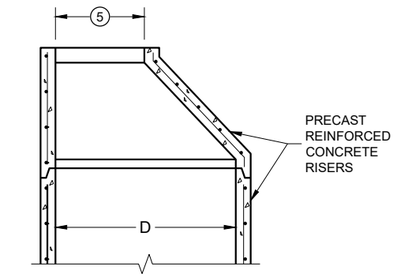
PLAN VIEW
CIRCULAR OPENING



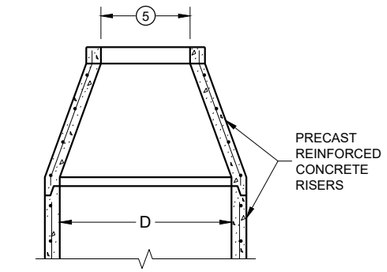
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

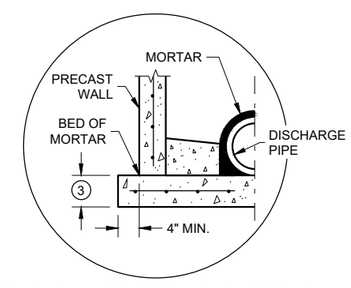
MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

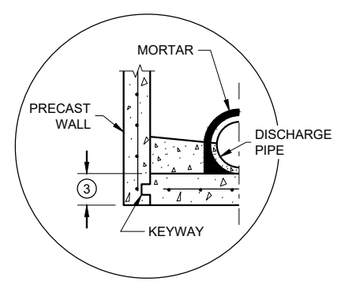
PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42*	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES.
SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

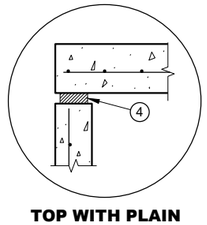


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

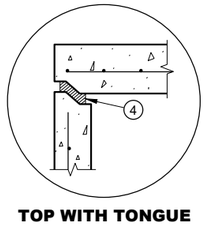


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

DETAIL "A"

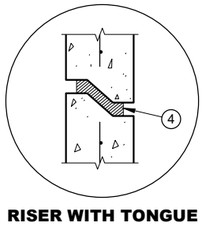


TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT

DETAIL "B"



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

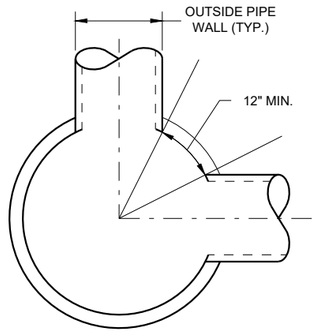
(1) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP.).

(5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
622
FHWA

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

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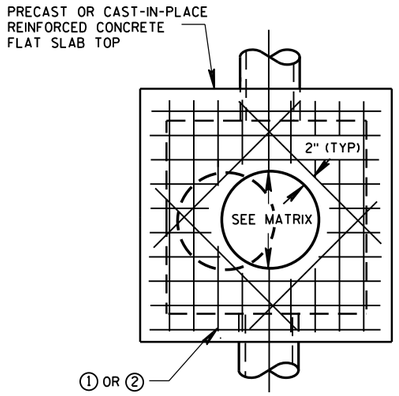
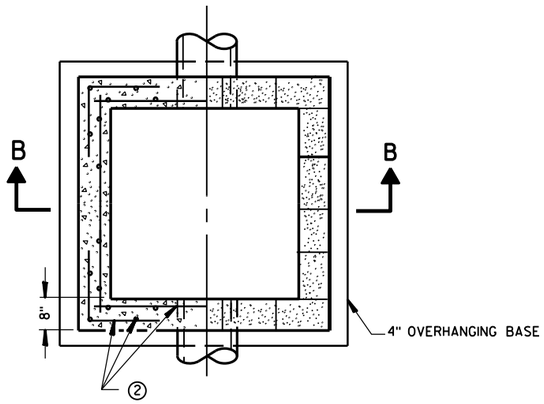
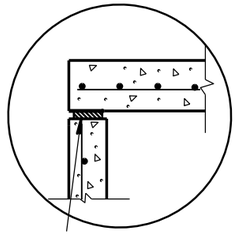


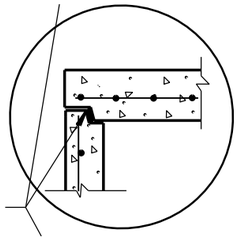
PLAN VIEW
CIRCULAR OPENING



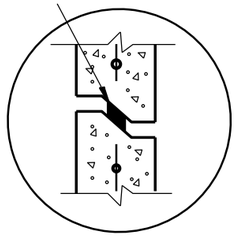
SECTION A-A
PLAN VIEW



TOP WITH PLAIN END JOINT

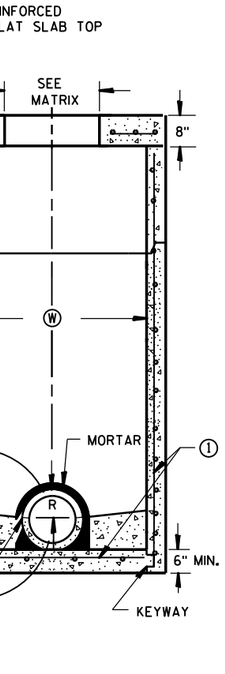


TOP WITH TONGUE AND GROOVE JOINT

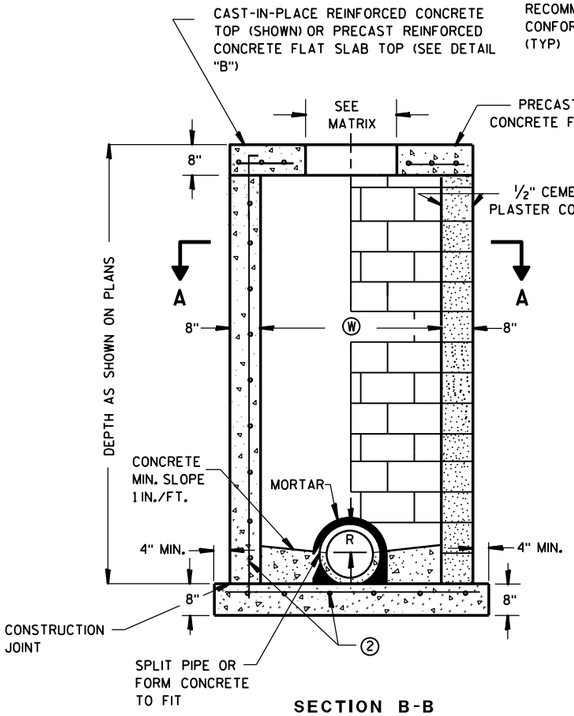


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

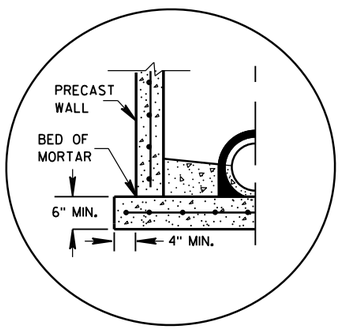


SECTION B-B

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

CAST-IN-PLACE REINFORCED CONCRETE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN WIDTH.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "C". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

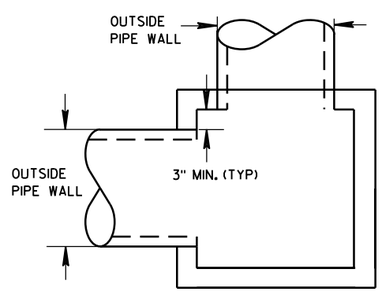
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (W) (IN)	LENGTH (L) (IN)
3X3-FT	24	24
4X4-FT	30	30
5X5-FT	42	42
6X6-FT	54	54



DETAIL "C"

SQUARE MANHOLES W/ FLAT TOP

MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT

MANHOLES 3X3-FT, 4X4-FT 5X5-FT AND 6X6-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS
UNIT SUPERV

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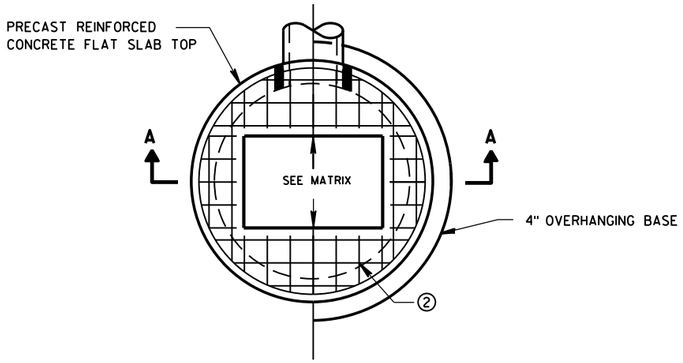
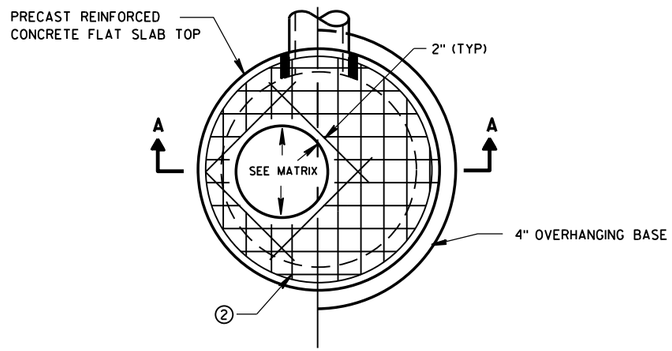
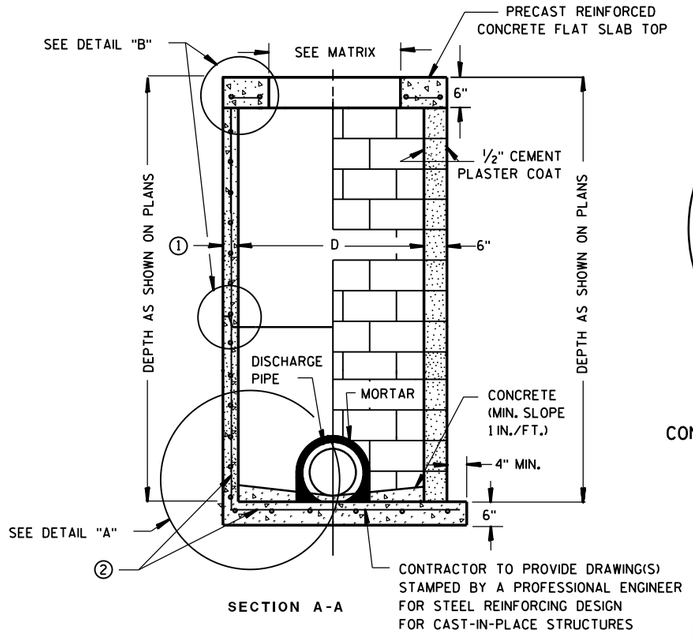


PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

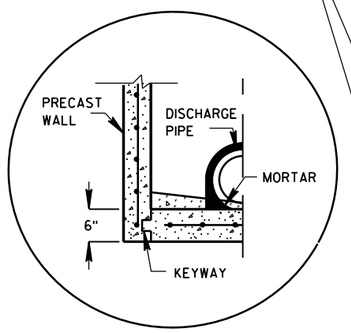


SECTION A-A

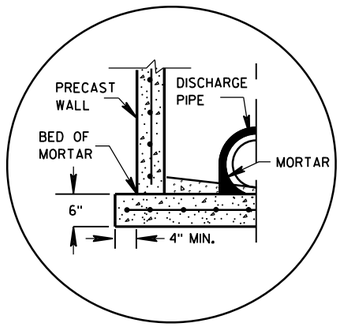
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

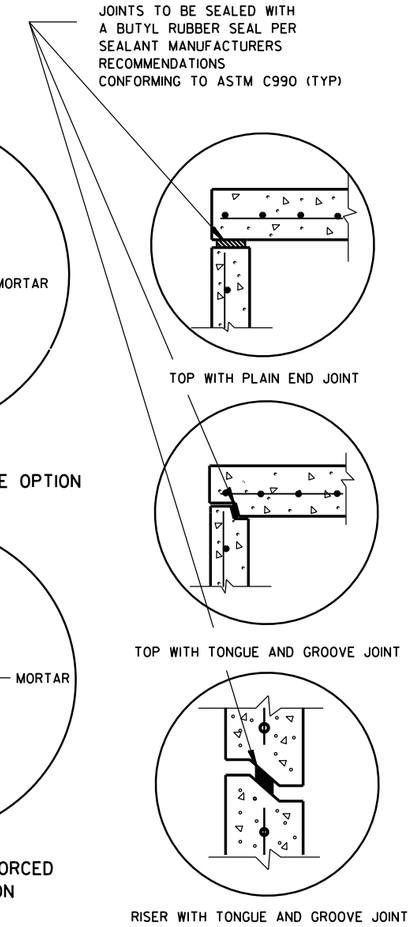


PRECAST REINFORCED
CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED
CONCRETE BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT

TOP WITH TONGUE AND GROOVE JOINT

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

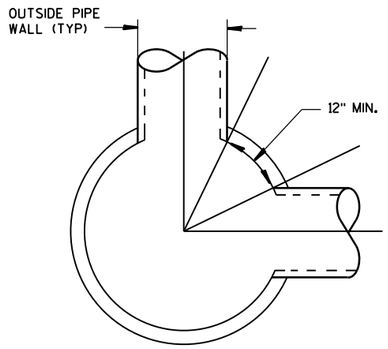
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

INLETS 3-FT
AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS | ENT
FHWA — UNIT SUPERVI

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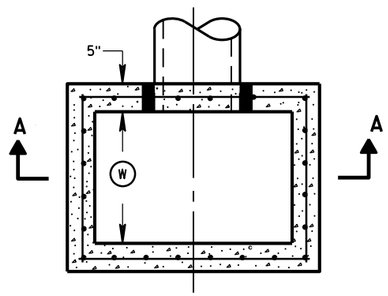
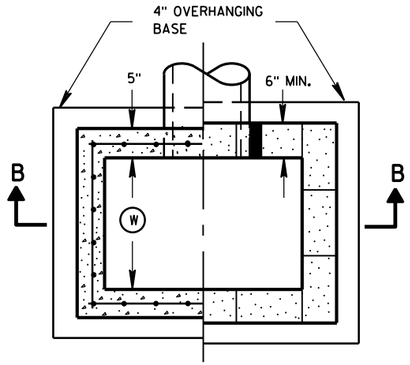
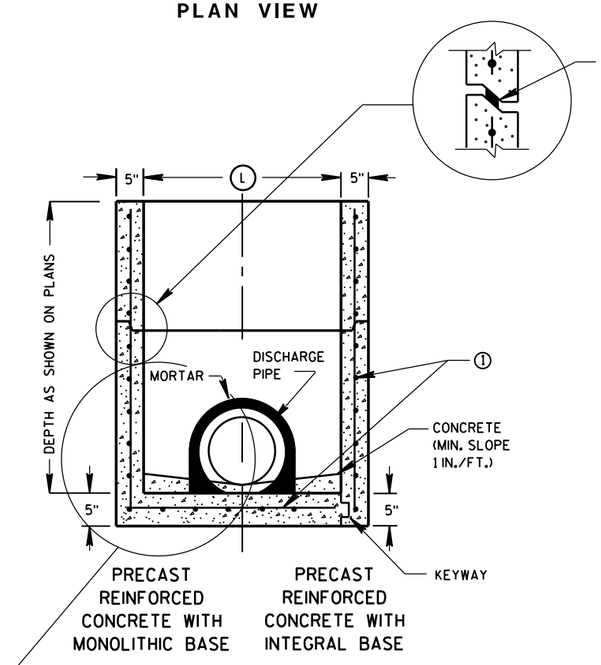
S.D.D. 8 C 6-2



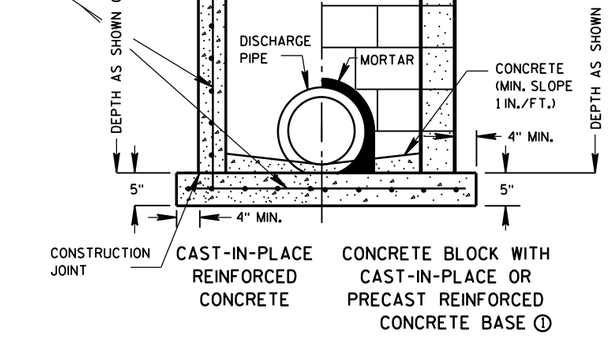
PLAN VIEW



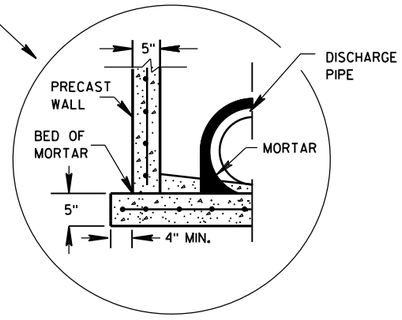
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

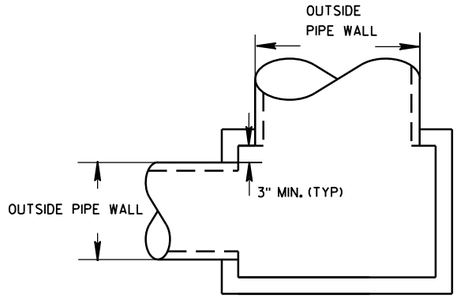
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

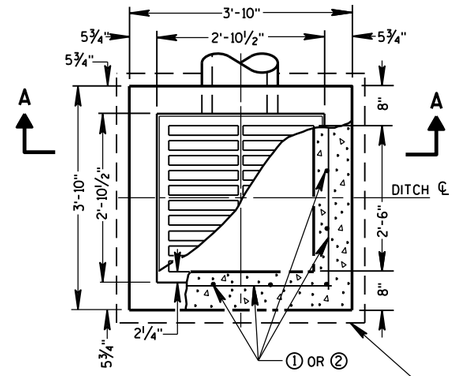
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

6

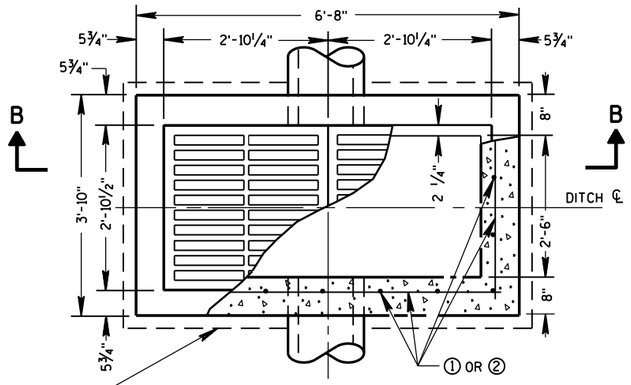
S.D.D. 8 C 7-2

6

S.D.D. 8 C 7-2

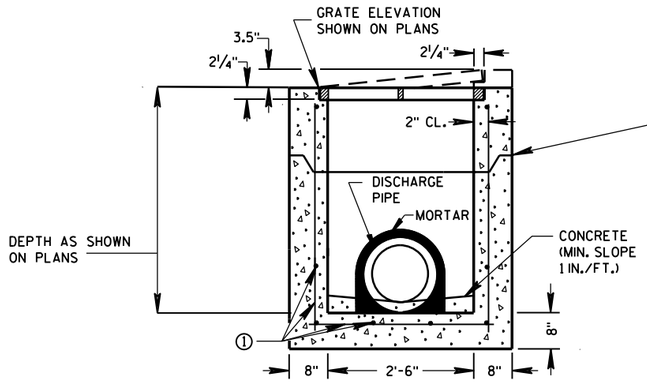


PLAN VIEW

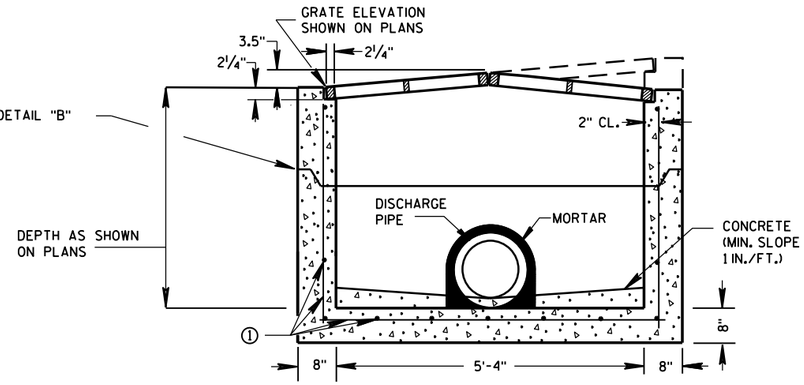


PLAN VIEW

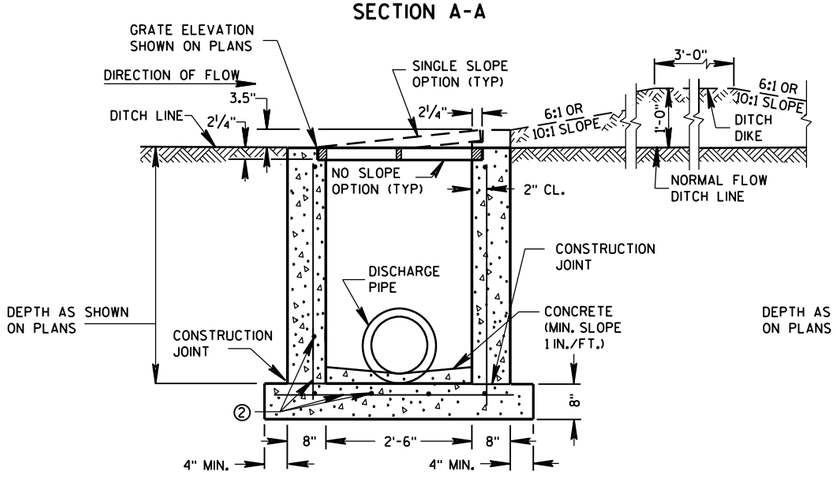
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



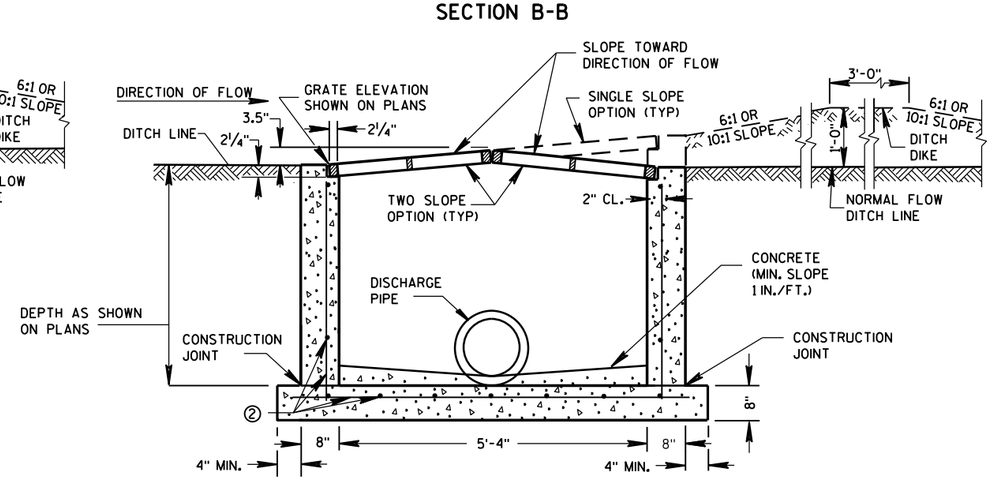
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

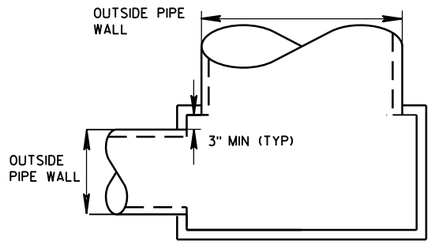
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

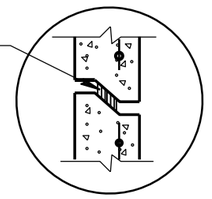
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

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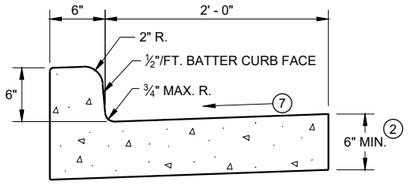
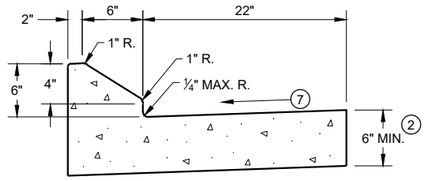
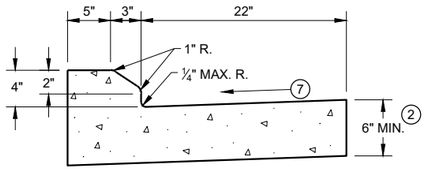
S.D.D. 8 C 8-2



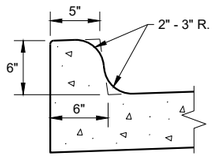
TYPES A[1] & D



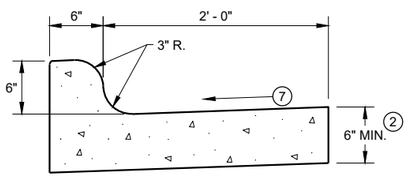
6" SLOPED CURB TYPES G[1] & J



4" SLOPED CURB TYPES G[1] & J

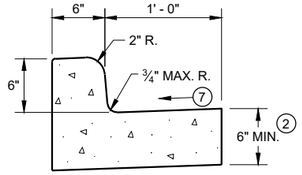


TYPES K[1] & L
(OPTIONAL CURB SHAPE)



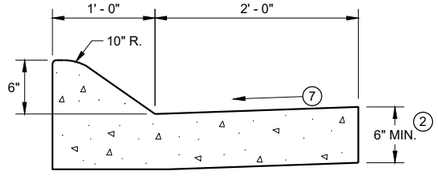
TYPES K[1] & L

CONCRETE CURB AND GUTTER 30"

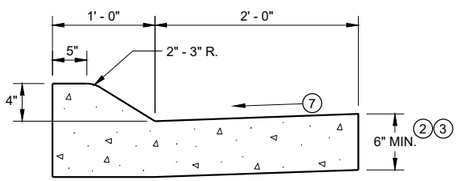


TYPES A[1] & D

CONCRETE CURB AND GUTTER 18"

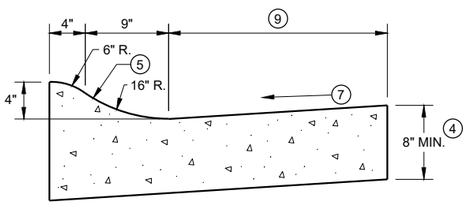


6" SLOPED CURB TYPES A[1] & D



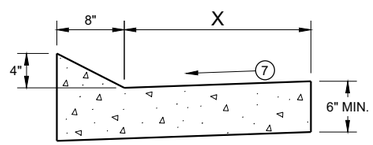
4" SLOPED CURB TYPES A[1] & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R[1] & T

TBT & TBTT	X
30"	22"
36"	28"

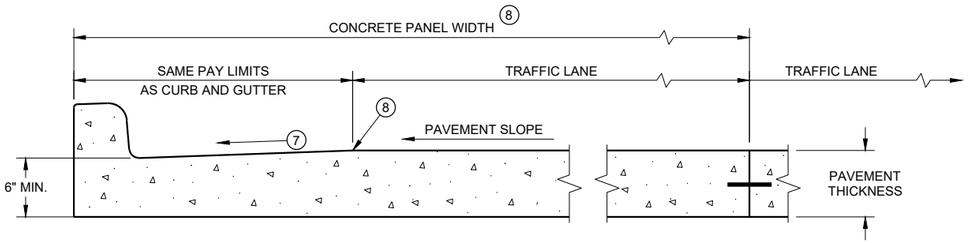


TYPES TBT & TBTT[1]

CONCRETE CURB AND GUTTER

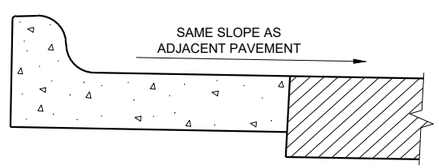
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER[6]
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

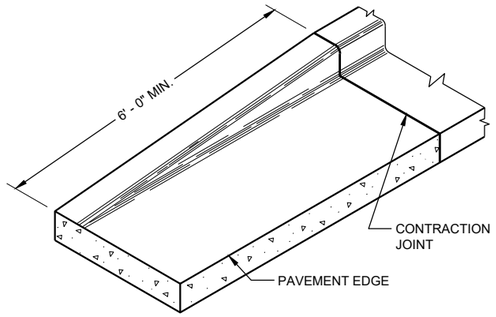
1. TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
3. USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
4. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
5. UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
6. WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
7. USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
8. INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
9. CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
   CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

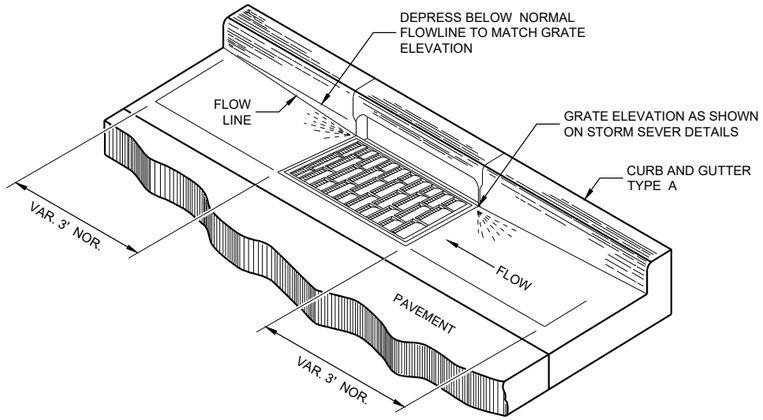
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D01 - 22a
SDD 08D01 - 22a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS
(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

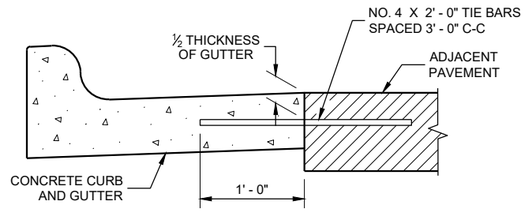
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

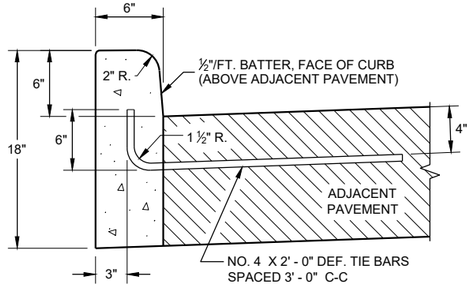
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

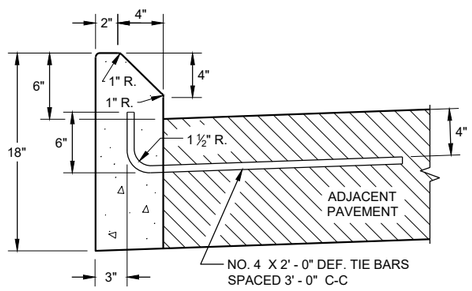
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

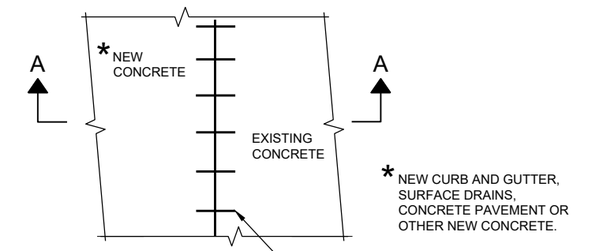


TYPES A (1) & D

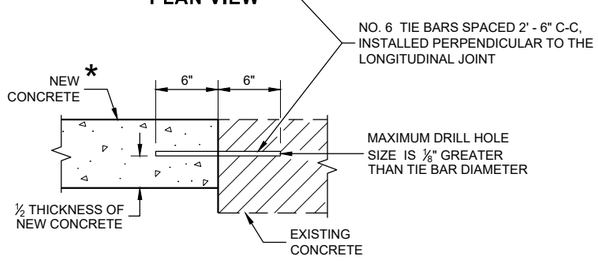


TYPES G (1) & J

CONCRETE CURB

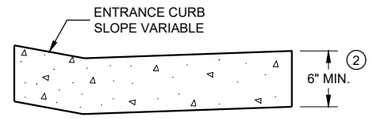


PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

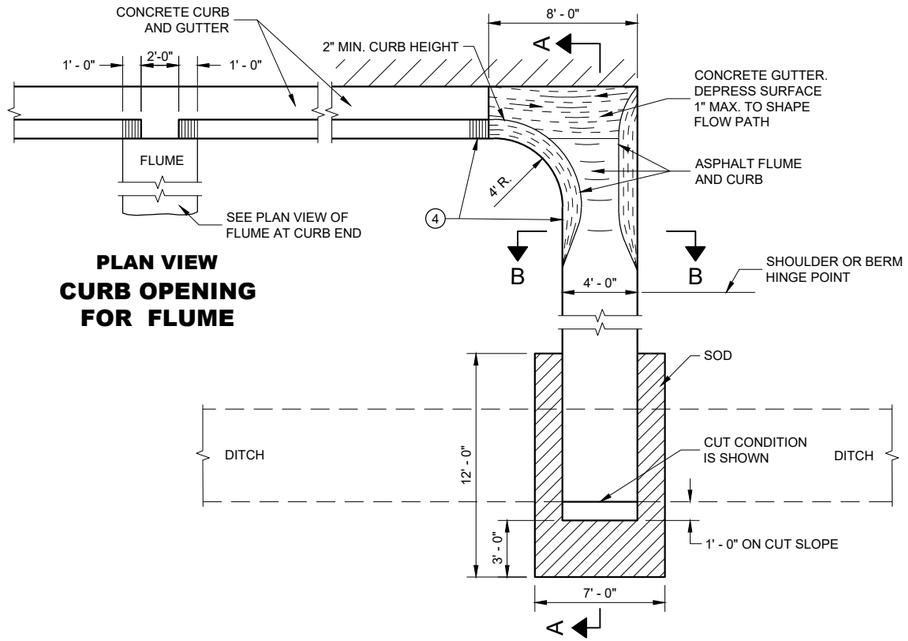
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER
628

FHWA

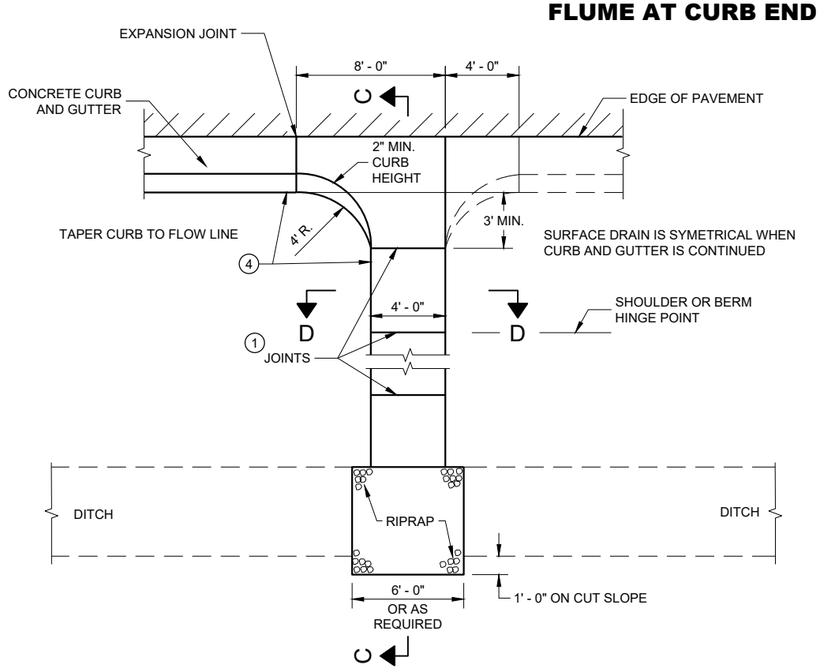
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



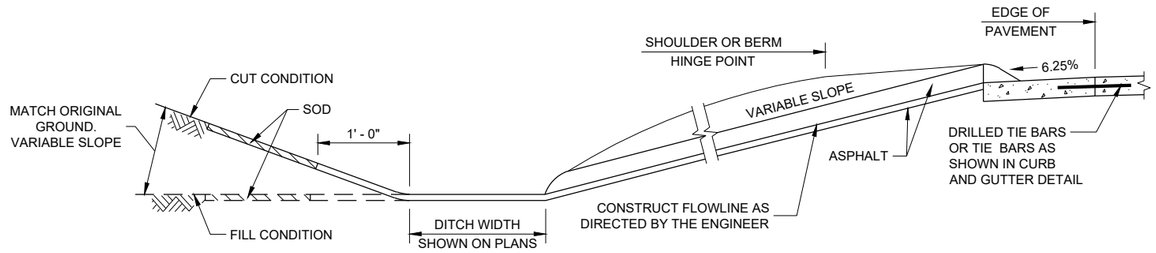
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

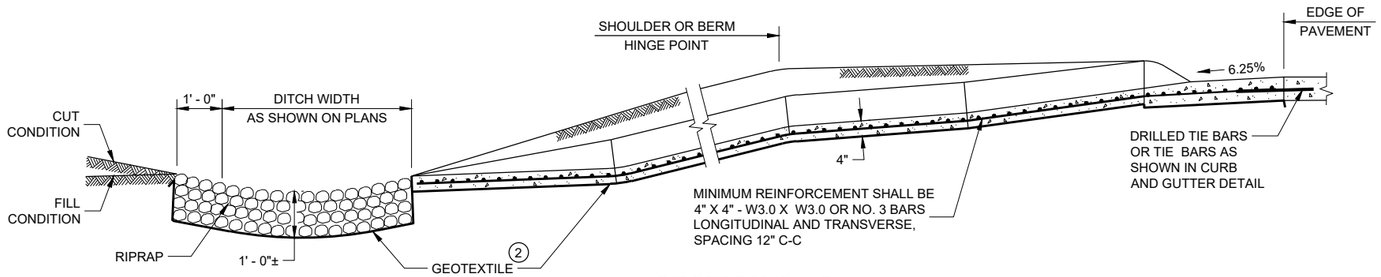
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

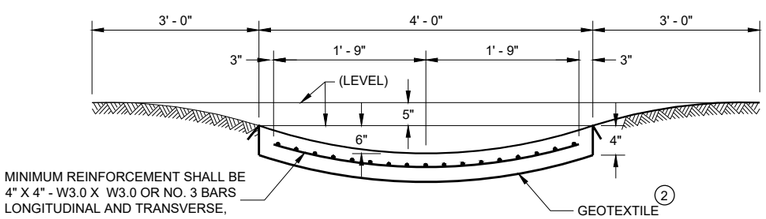


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
ENGINEER

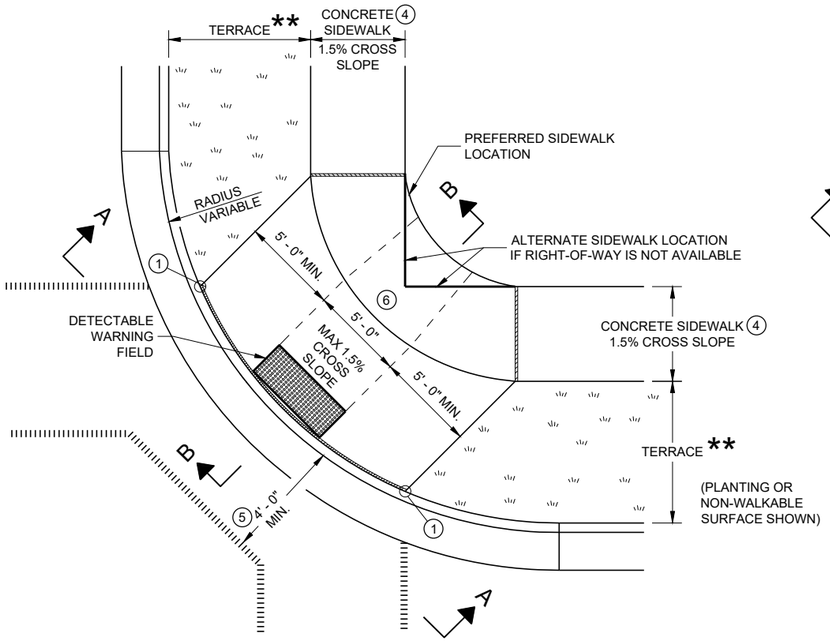
FHWA

6

SDD 08D04 - 06

6

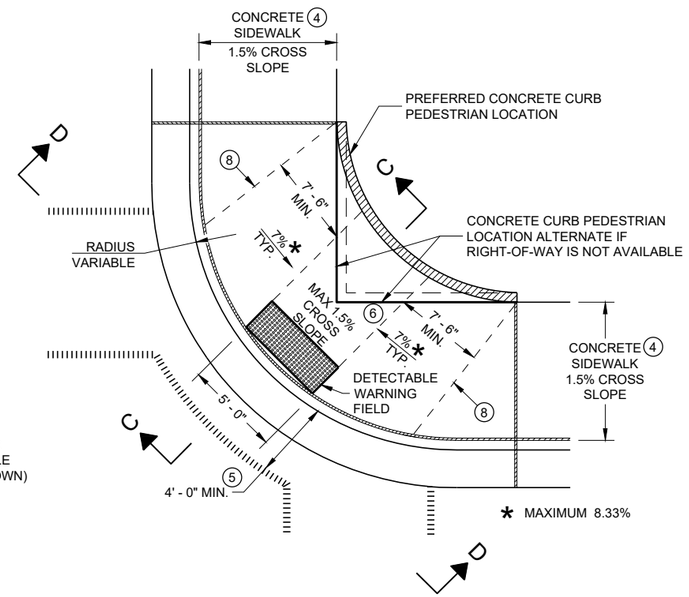
SDD 08D04 - 06



PLAN VIEW

CURB RAMP TYPE 1

(CENTER OF CORNER RADIUS)



PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

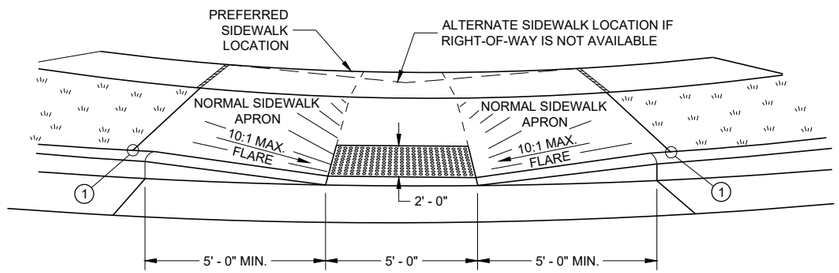
(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

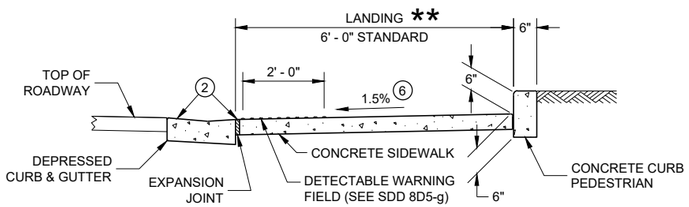
(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.



VIEW A - A FOR TYPE 1

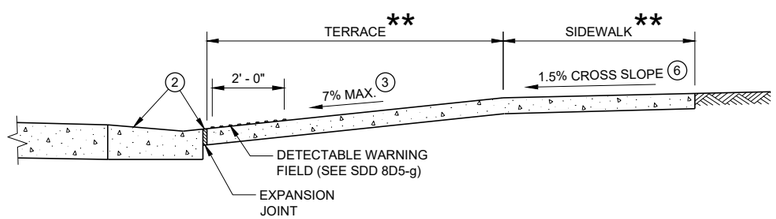


SECTION C - C FOR TYPE 1 - A

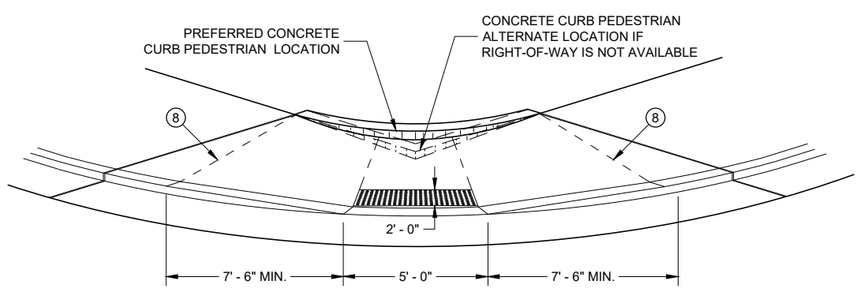
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

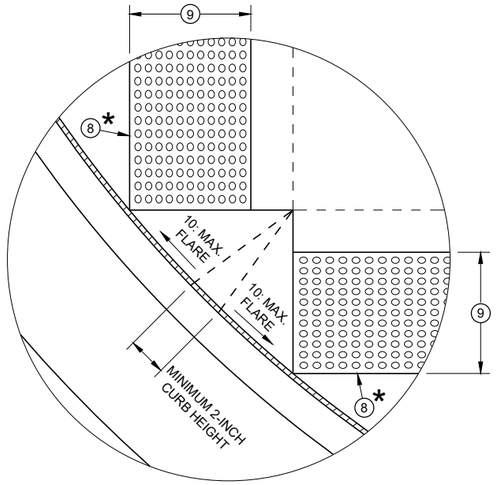
CURB RAMPS
TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

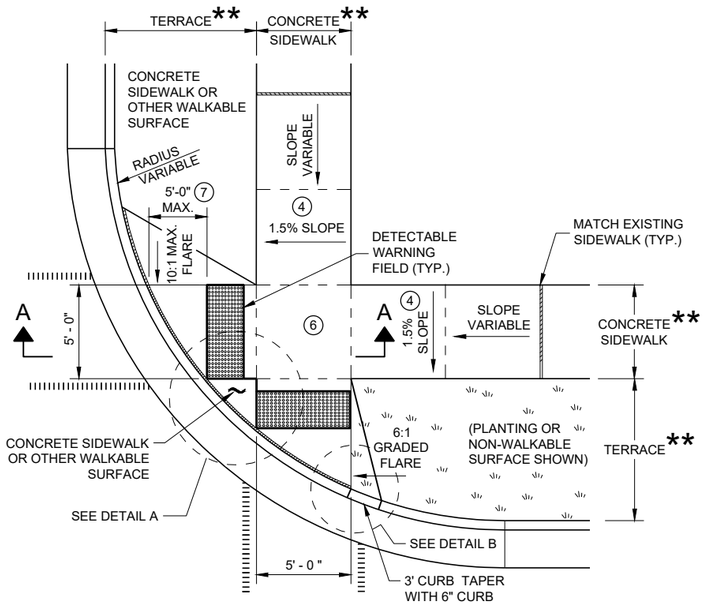
630

SDD 08D05 - 20a

SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

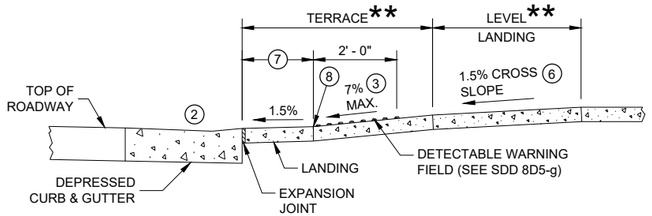
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

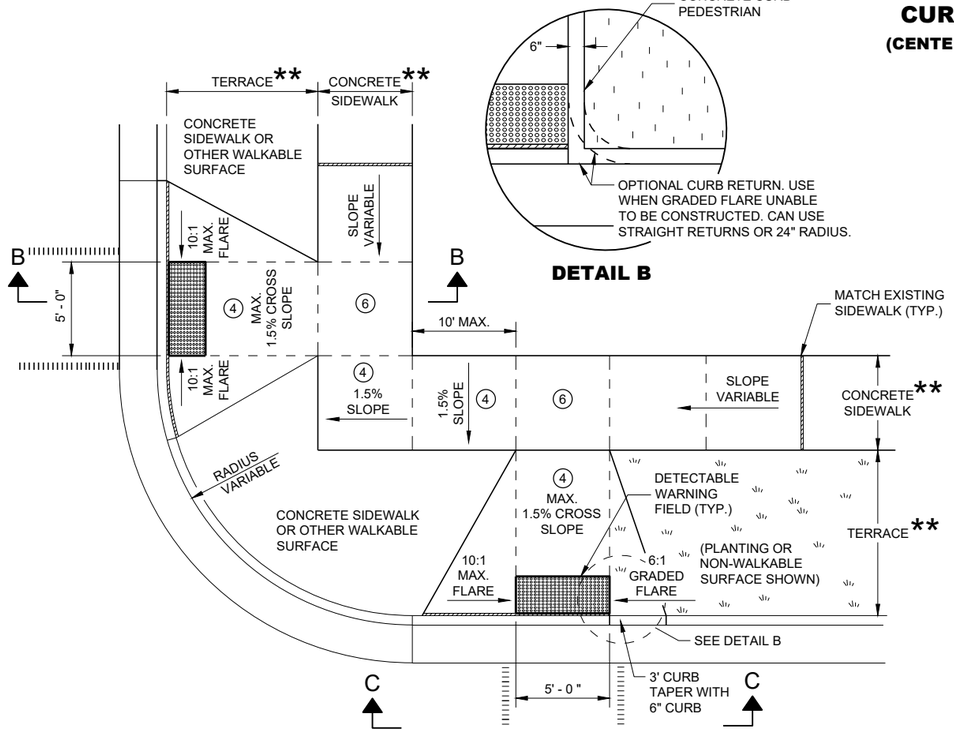
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

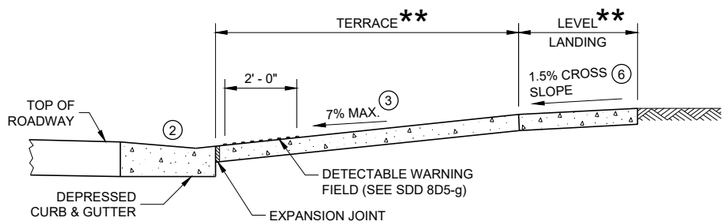
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

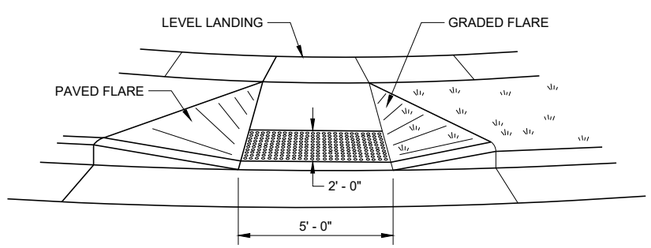
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



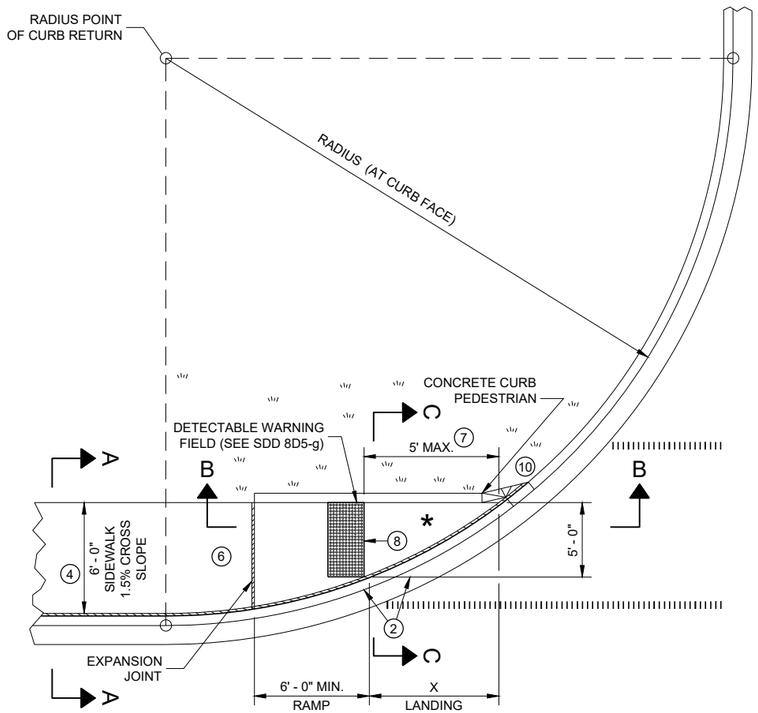
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

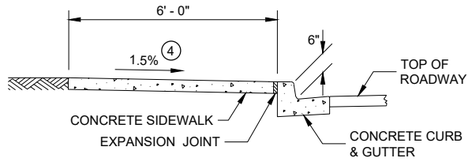


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

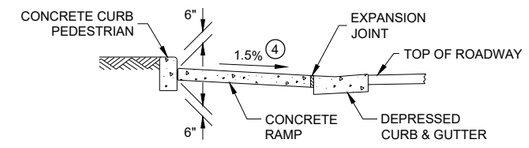
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

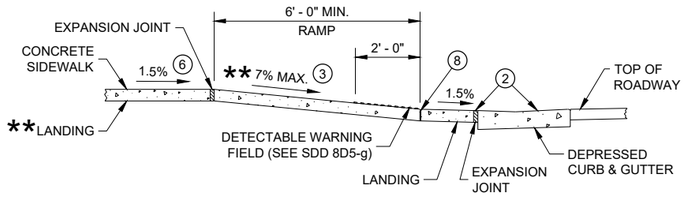
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



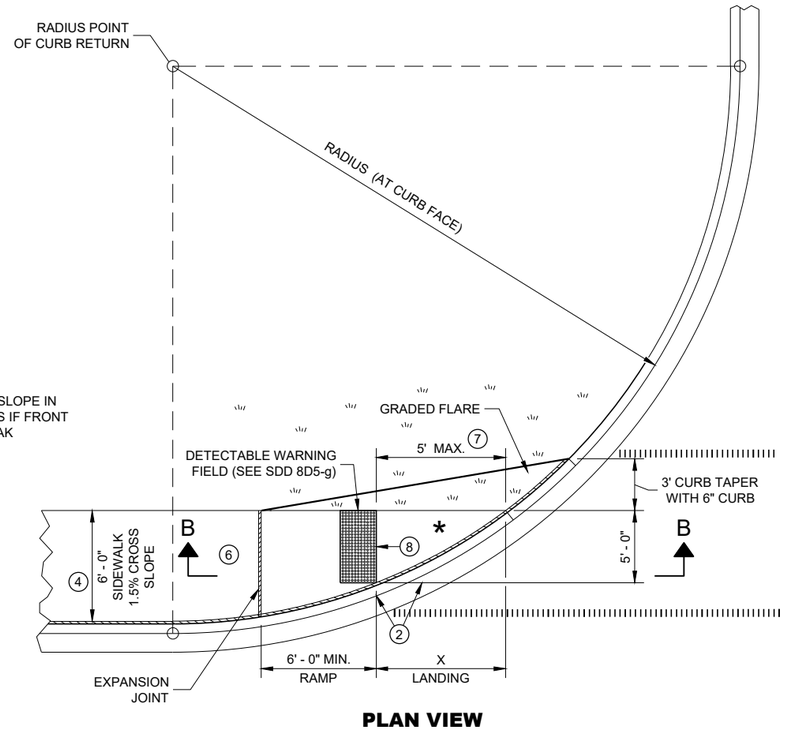
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

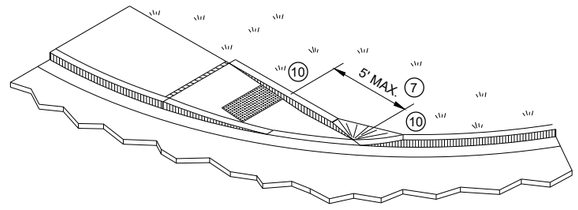
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

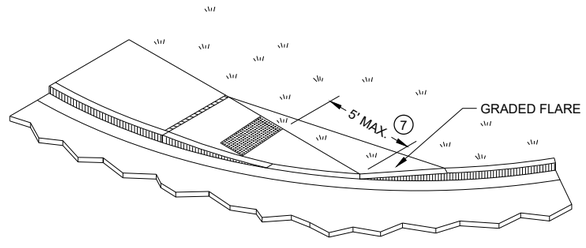


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



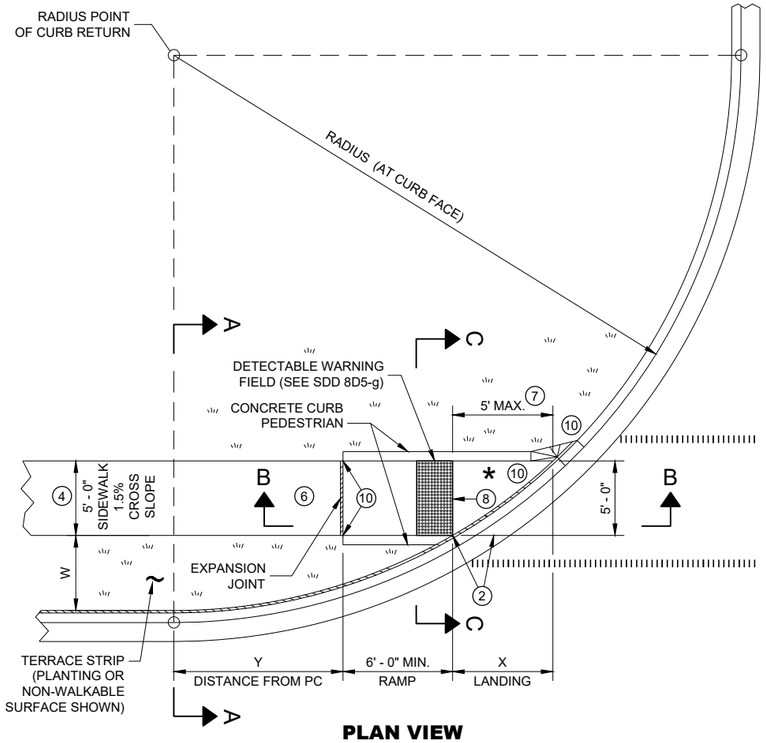
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c



PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

SECTION C - C FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

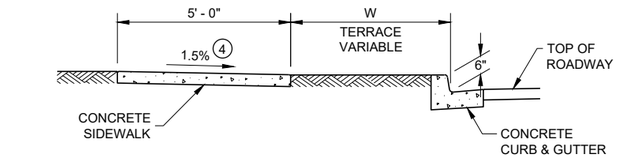
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

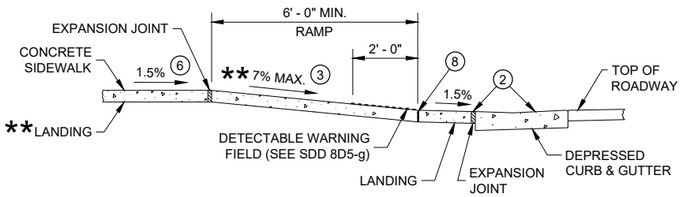
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



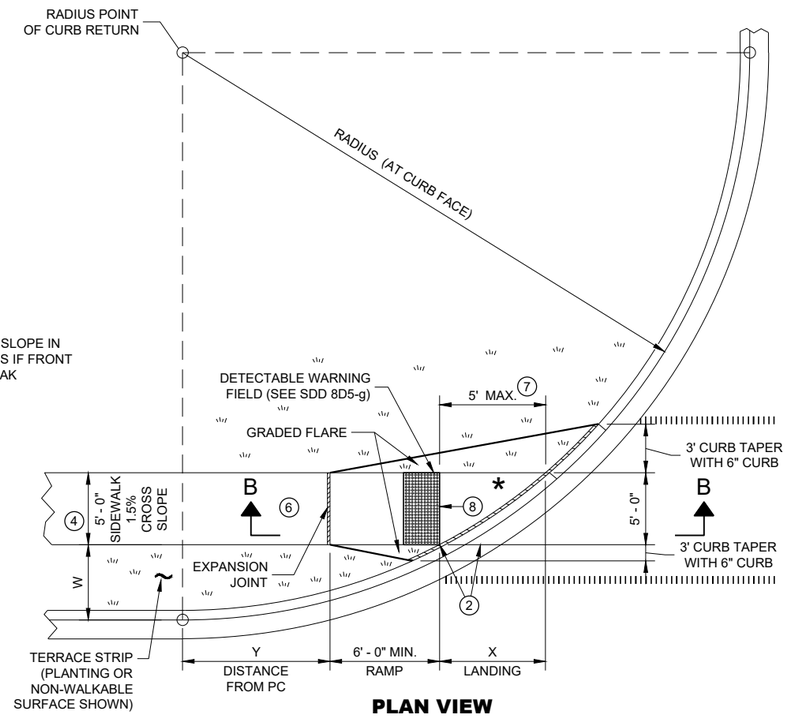
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

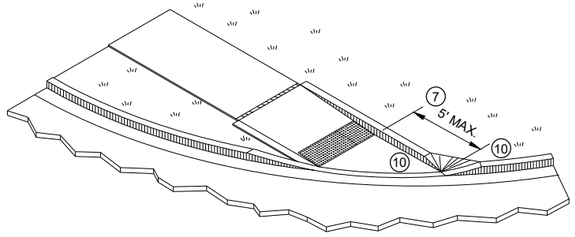
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

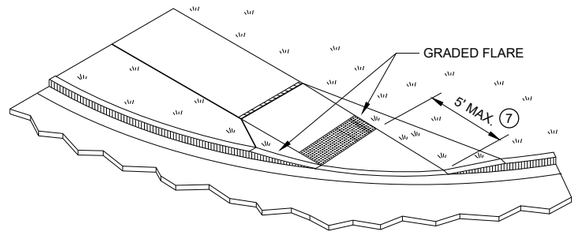


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

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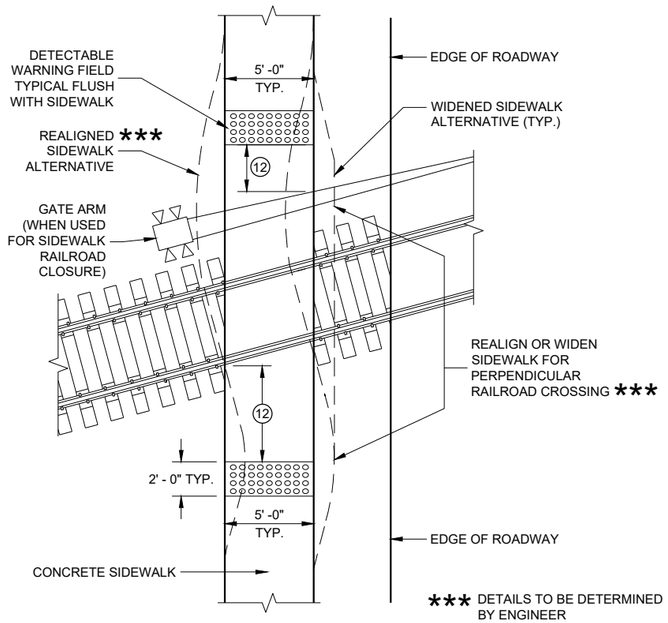
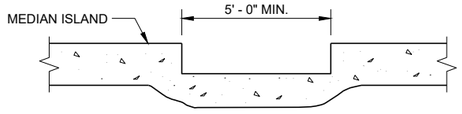
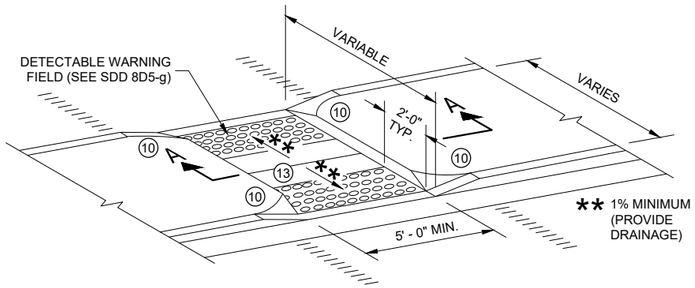


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

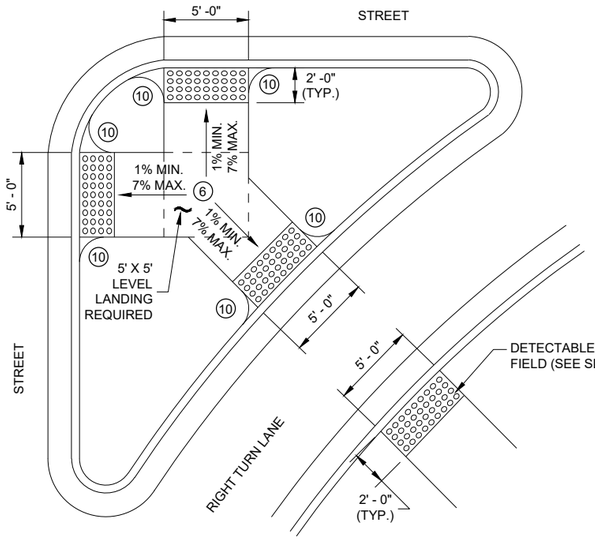
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

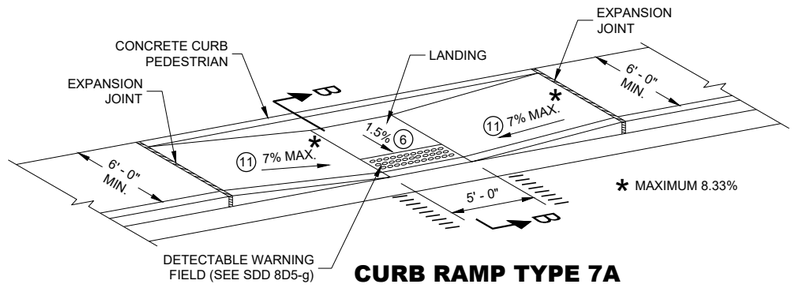
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

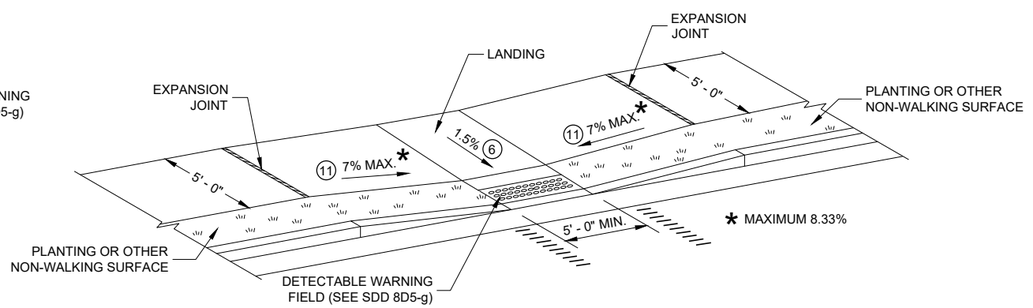
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

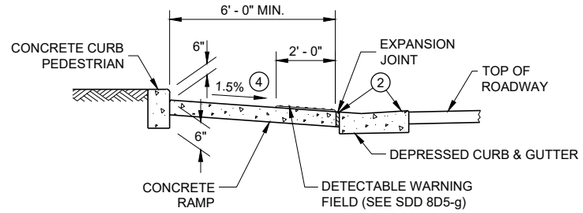
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

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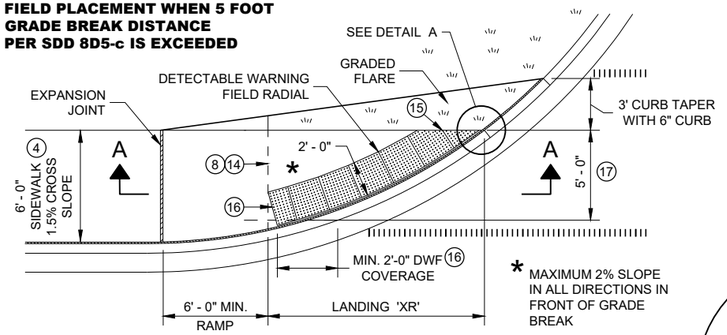
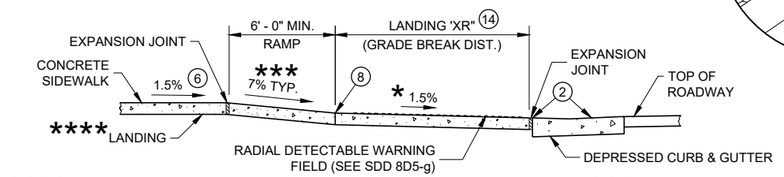
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4A1

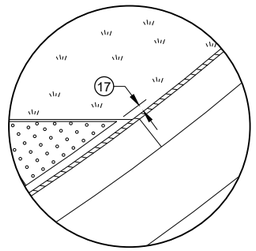
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

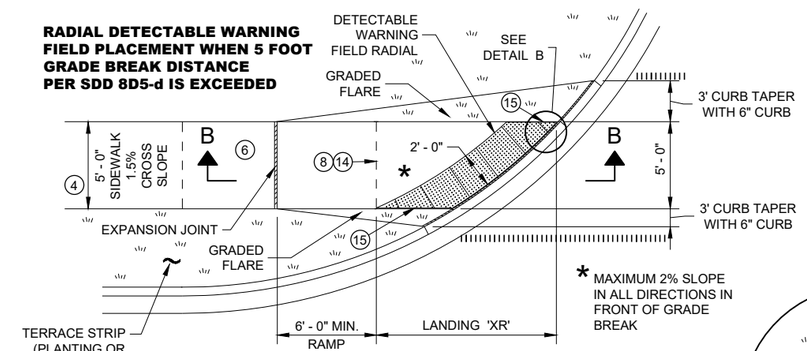
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

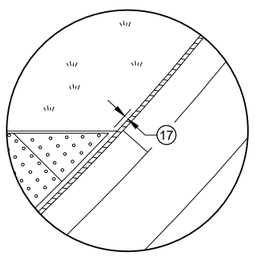
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



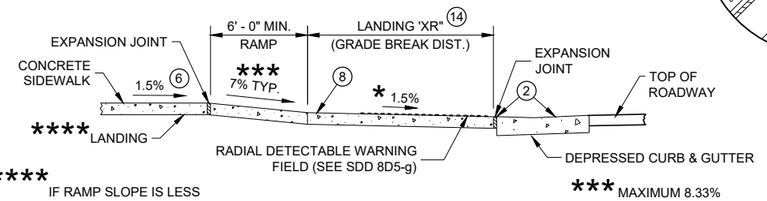
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

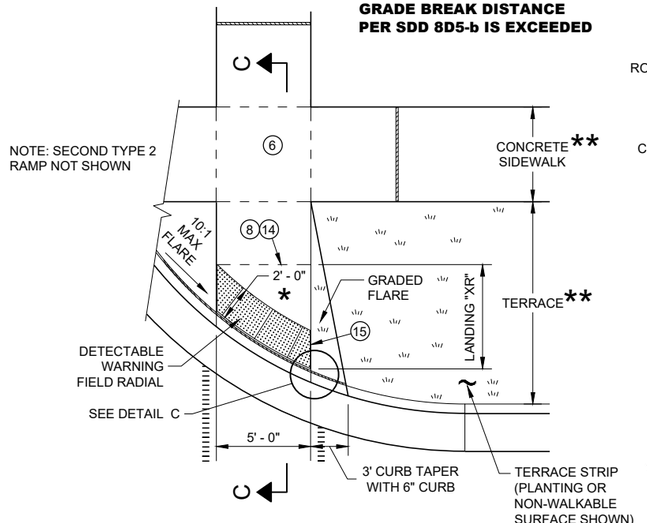


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

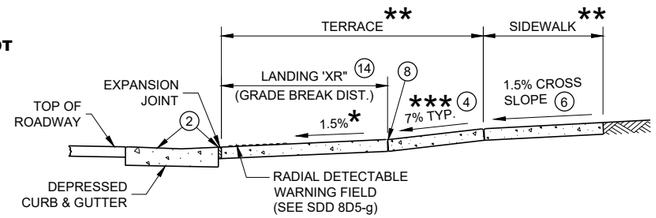


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

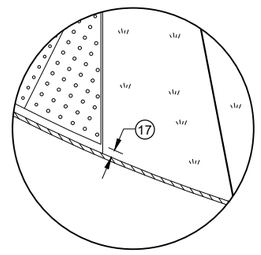


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

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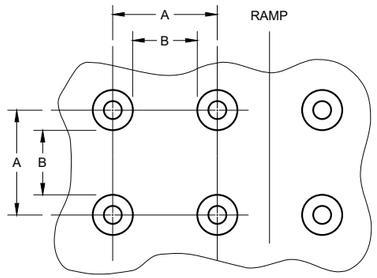
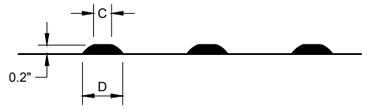
	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

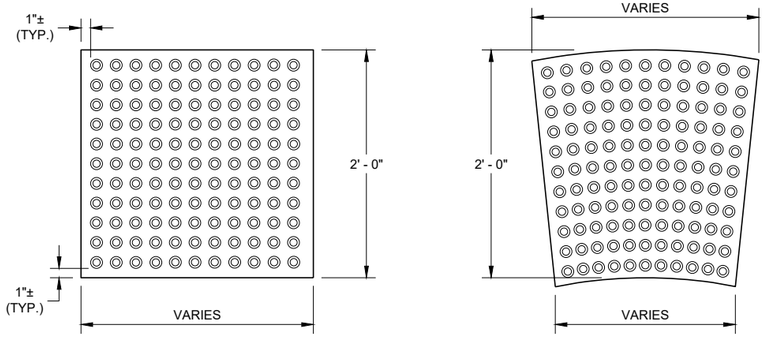


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

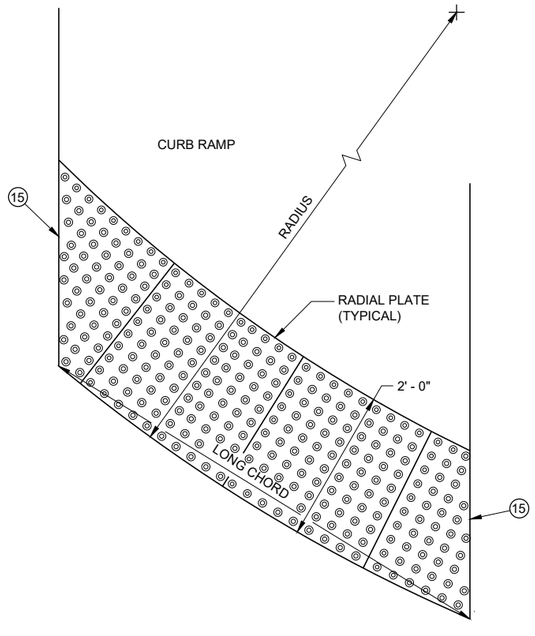
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

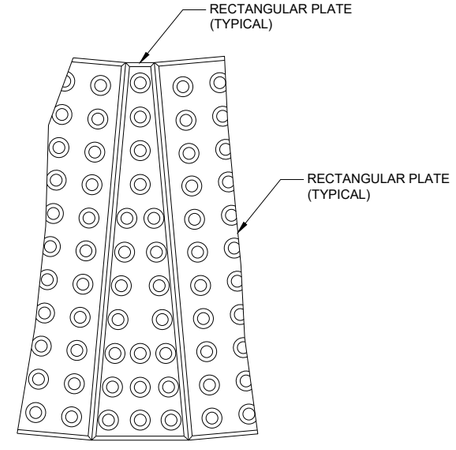
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

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SDD 08D05 - 20g

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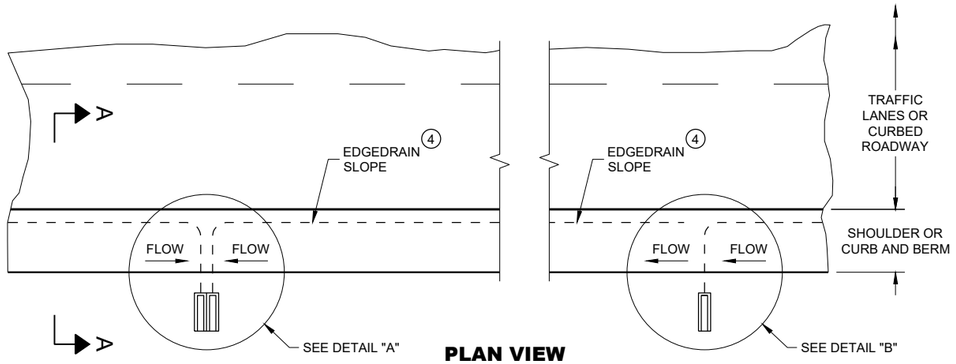
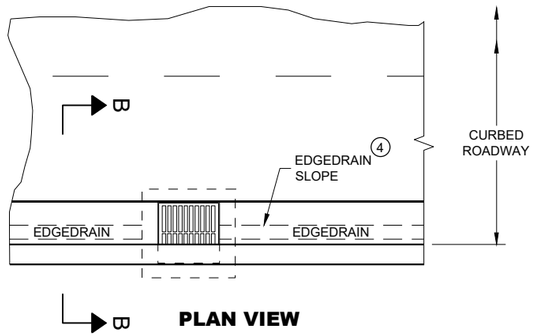


PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS
(EDGEDRAIN CONNECTS TO ROADSIDE) (2)



PLAN VIEW

ROADWAY WITH CURBS
(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

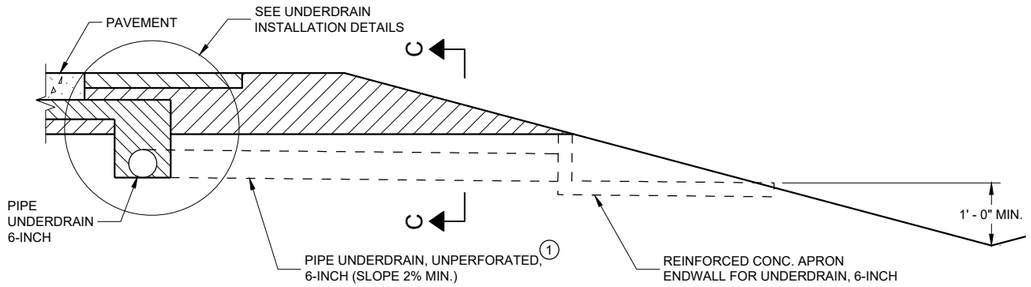
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

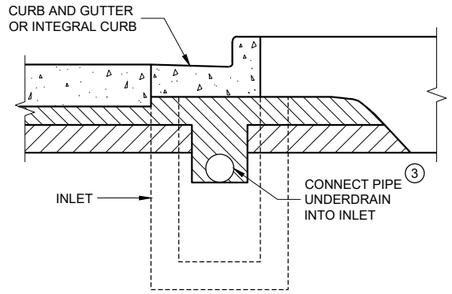
(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



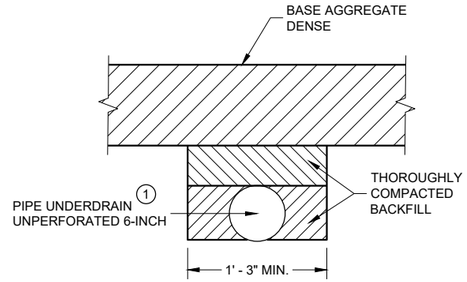
SECTION A - A

RURAL CROSS SECTION



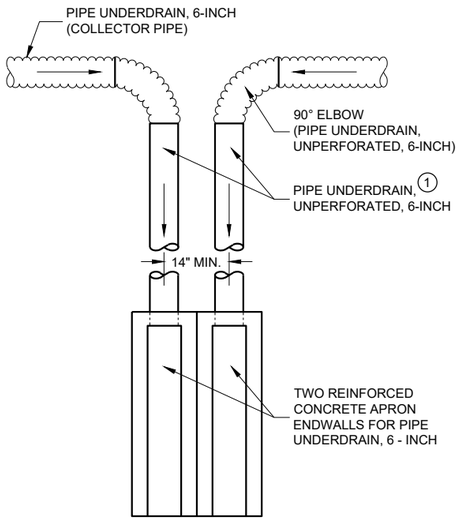
SECTION B - B

URBAN CROSS SECTION

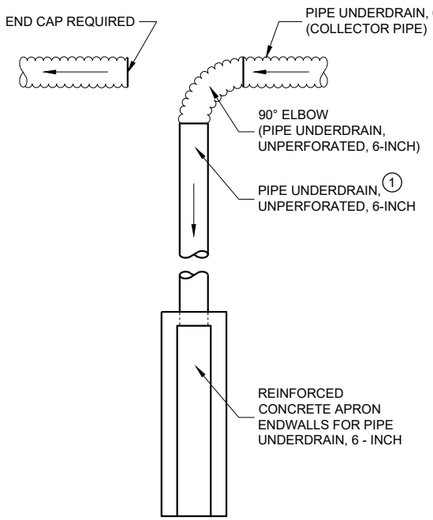


SECTION C - C

TRENCH FOR OUTFALL PIPE

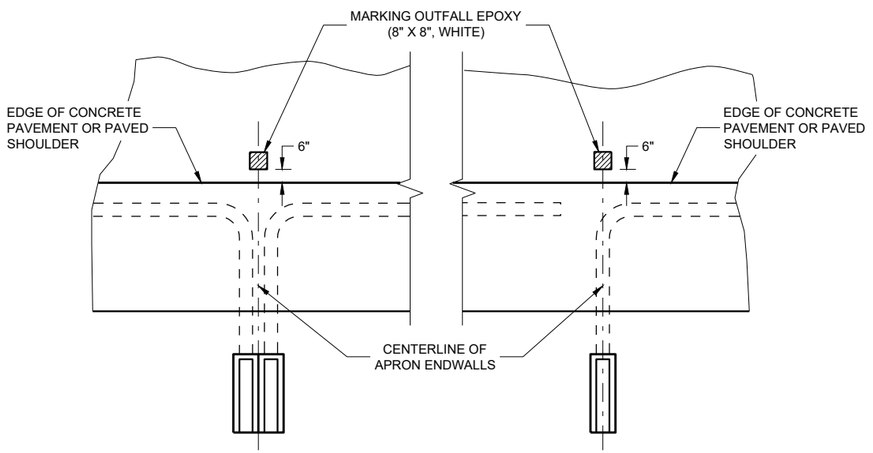


DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS



DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



LOW POINT LOCATIONS — INTERMEDIATE LOCATIONS

PAVEMENT MARKINGS FOR OUTFALL MARKERS

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD08D15 - 05a

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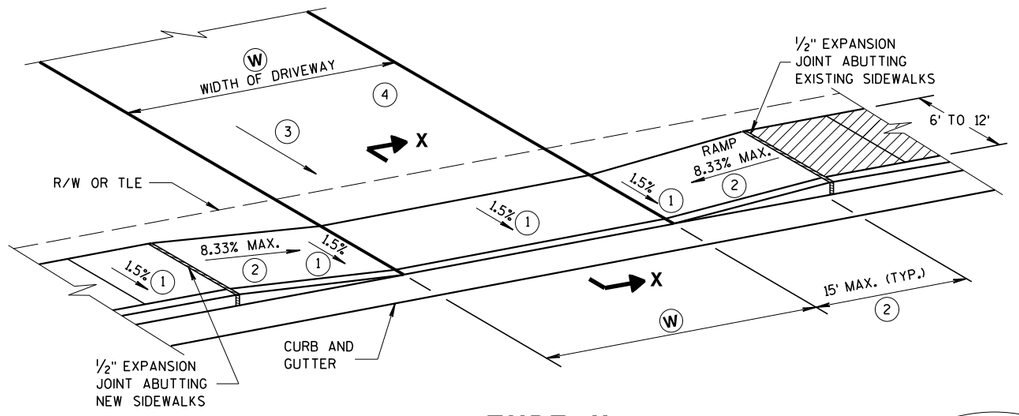
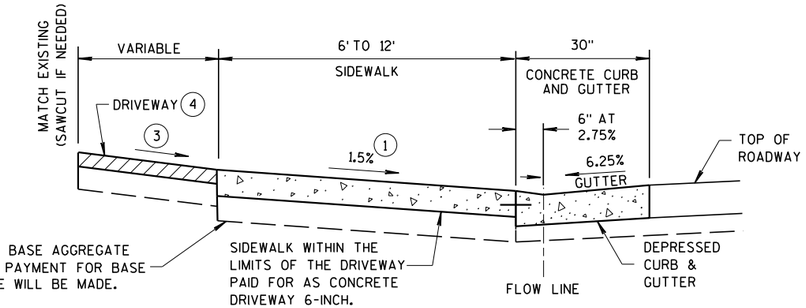
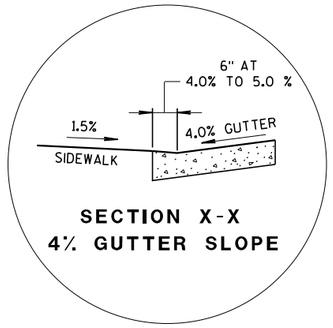


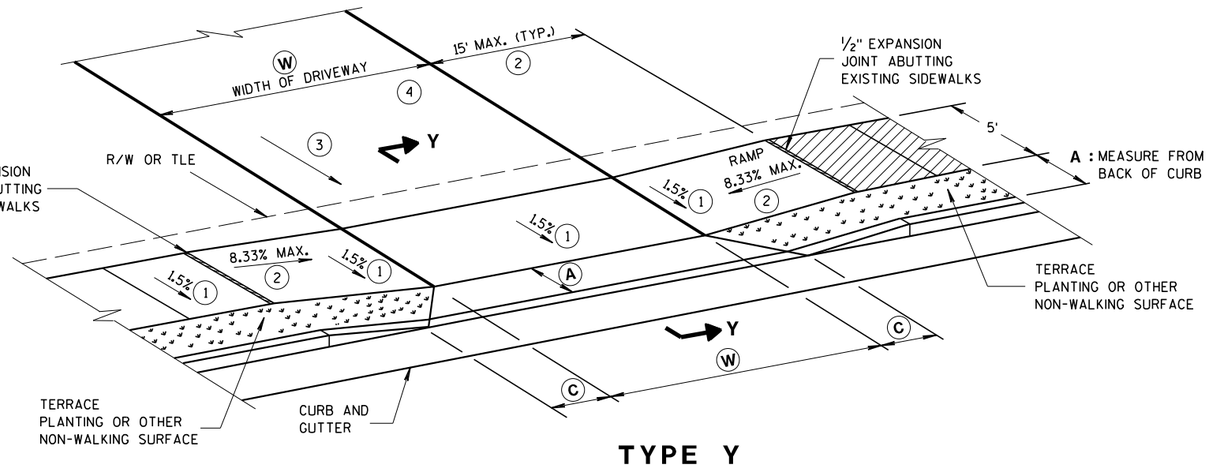
TYPE X
SIDEWALK ABUTS CURB & GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X-X



SECTION X-X
4% GUTTER SLOPE



TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

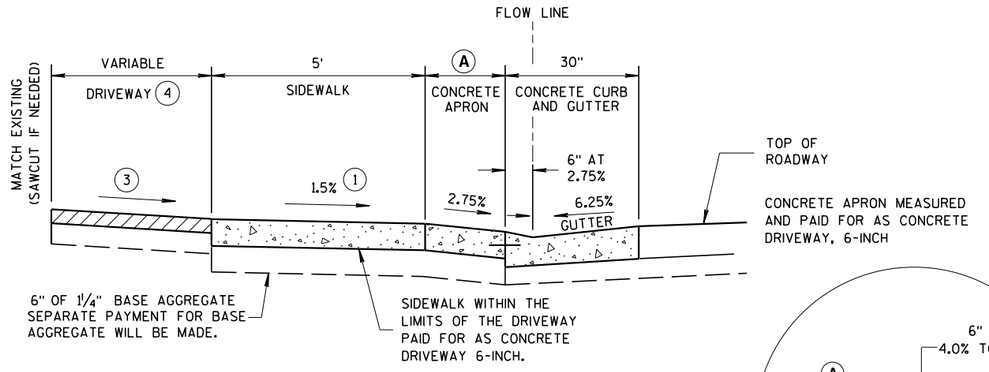
OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

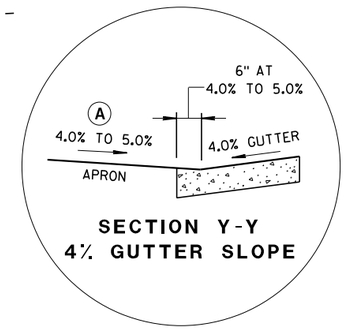
(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)



NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y-Y



SECTION Y-Y
4% GUTTER SLOPE

DRIVEWAY DETAIL
WITH CONCRETE CURB & GUTTER
(URBAN AND SUBURBAN)

TABLE Y

(A) FEET	(C) FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS
TYPES X & Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS 638 MENT
UNIT SUPERVISOR
FHWA

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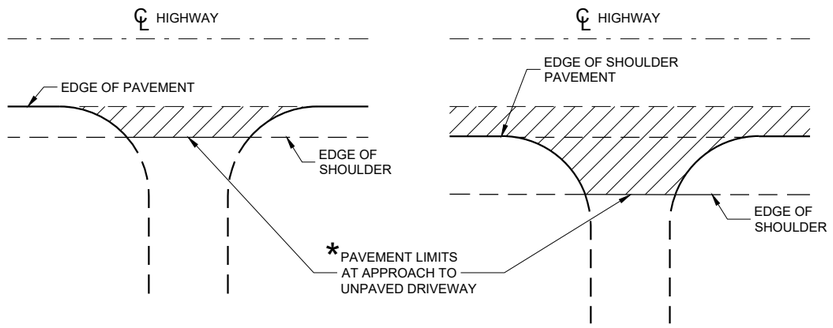
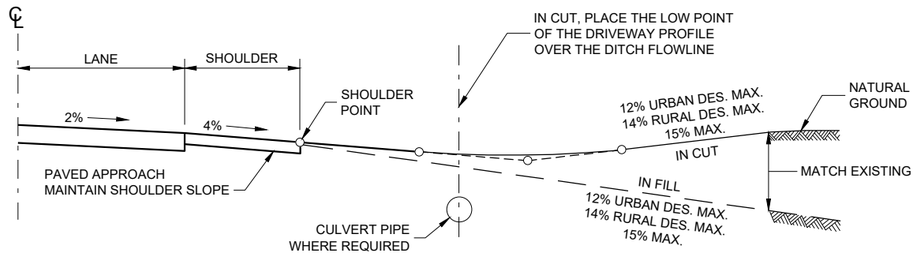
S.D.D. 8 D 18-2



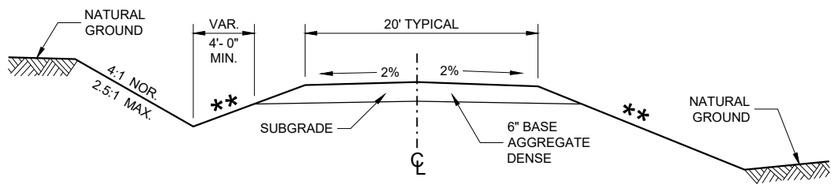
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB AND GUTTER OR SIDEWALK)



TYPICAL DRIVEWAY PROFILES

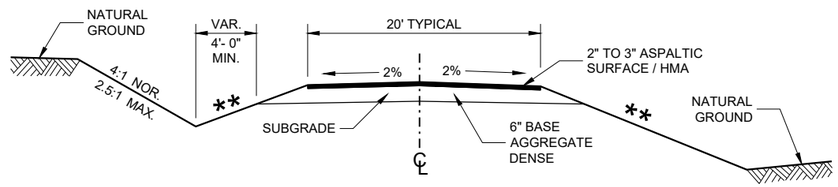


IN CUT IN FILL

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE



IN CUT IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

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SDD 08D21 - 01

SDD 08D21 - 01

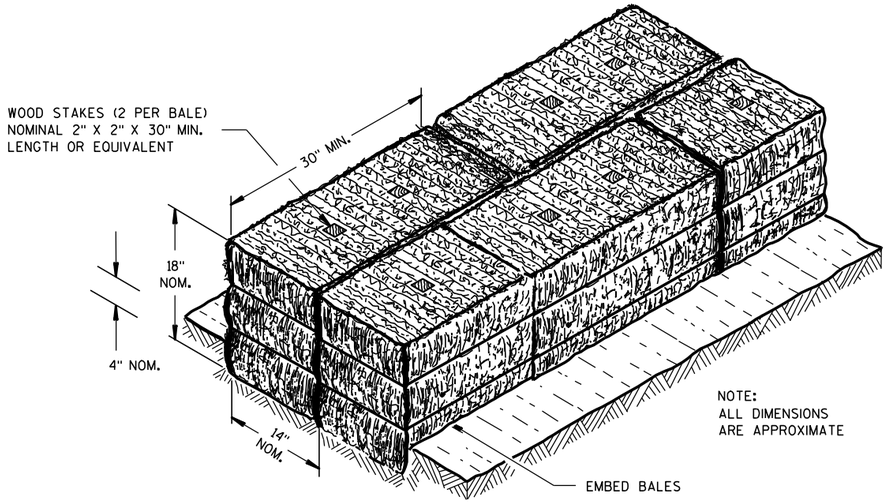
DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

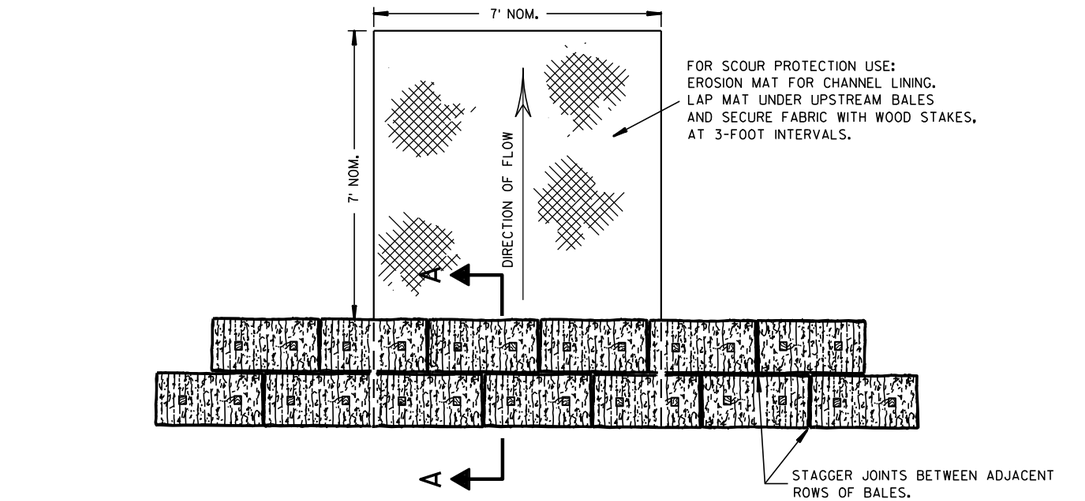
APPROVED
December 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

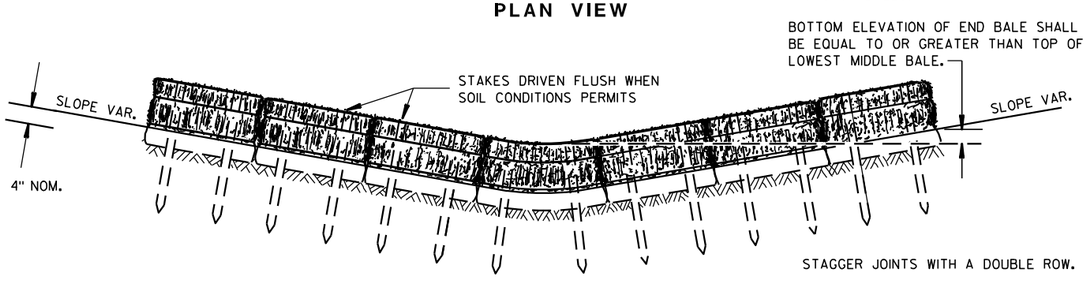
FHWA



SECTION A-A



PLAN VIEW



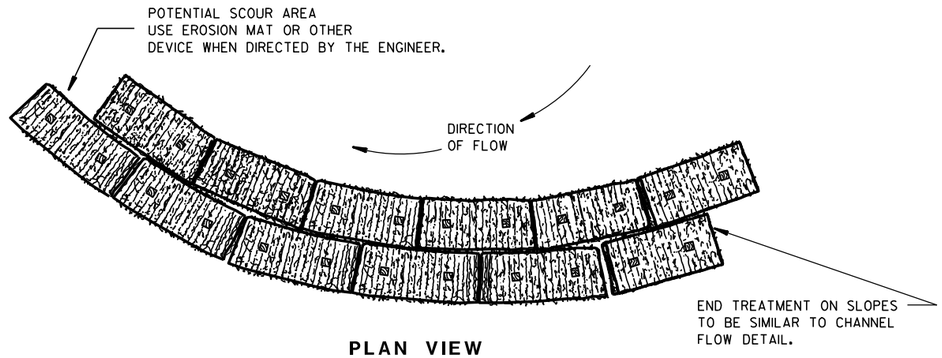
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

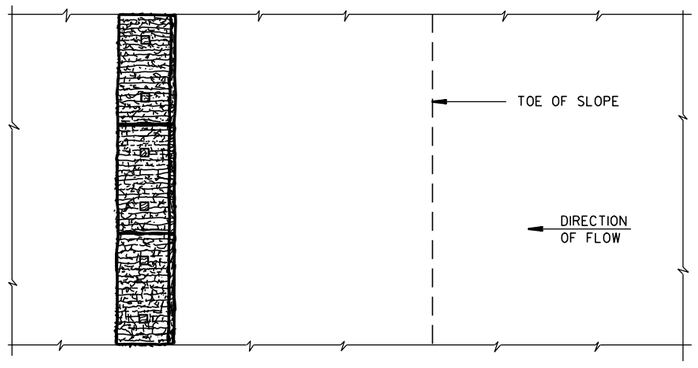
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

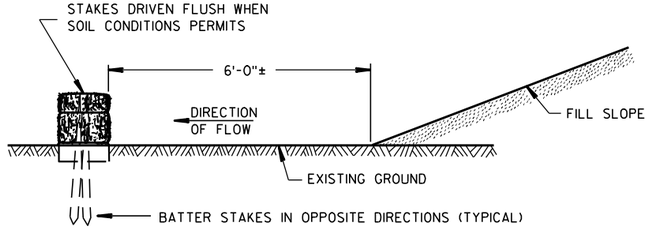


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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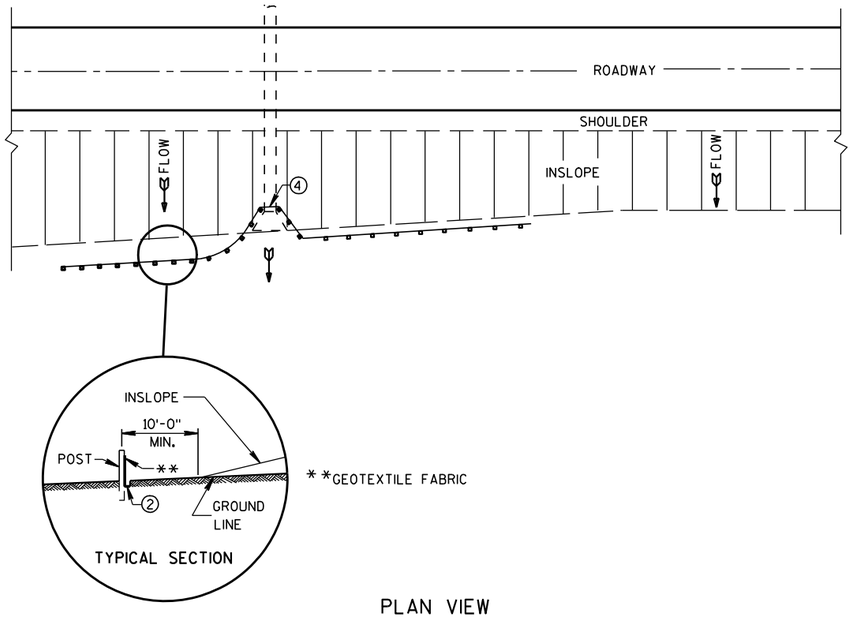
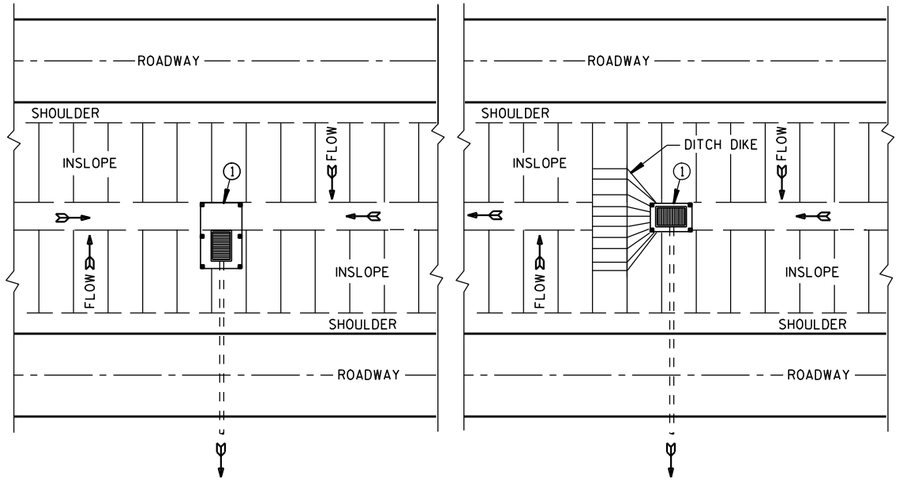
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



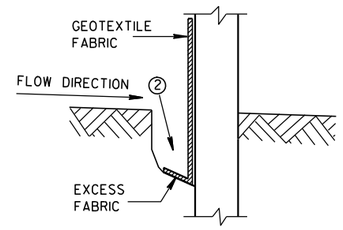
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

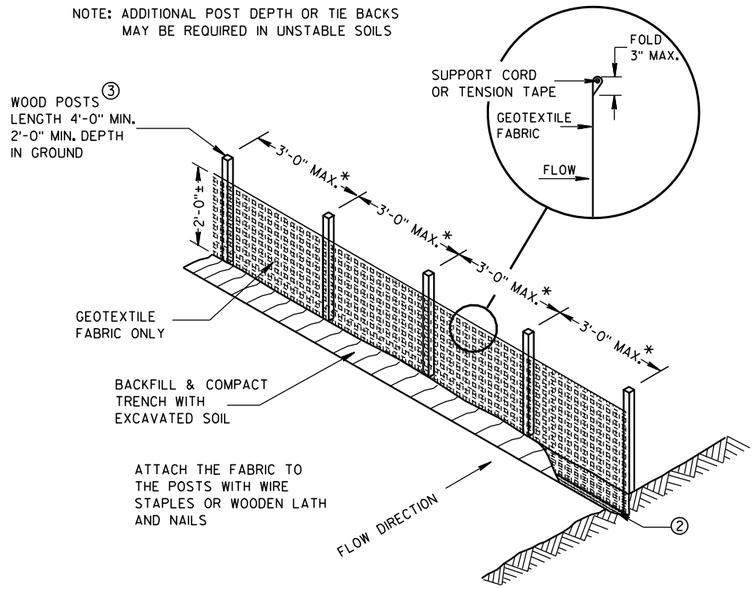
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

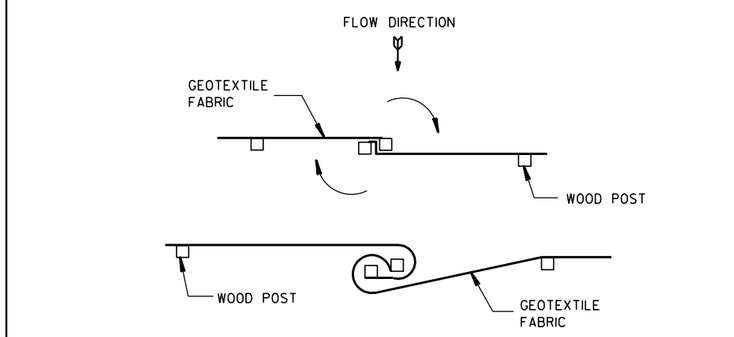
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



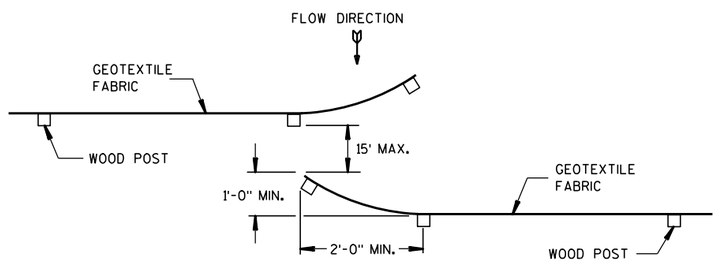
TRENCH DETAIL



SILT FENCE

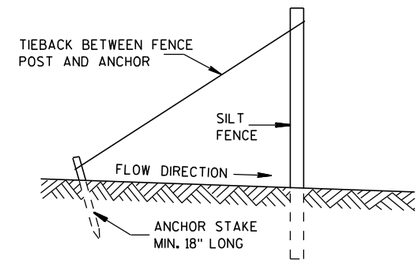


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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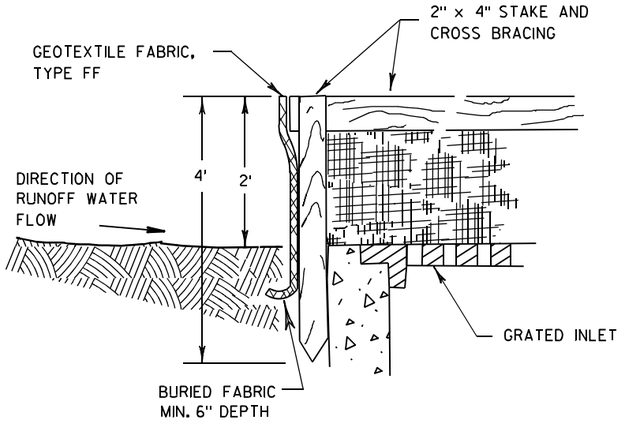
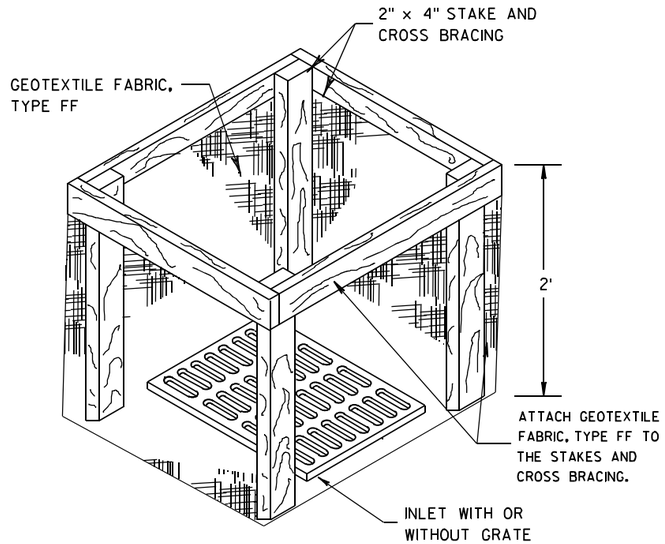
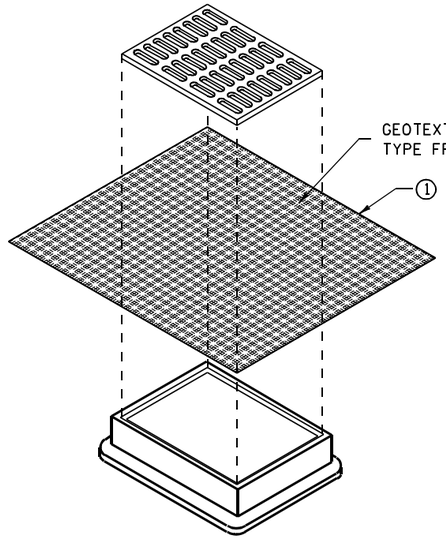
S.D.D. 8 E 9-6



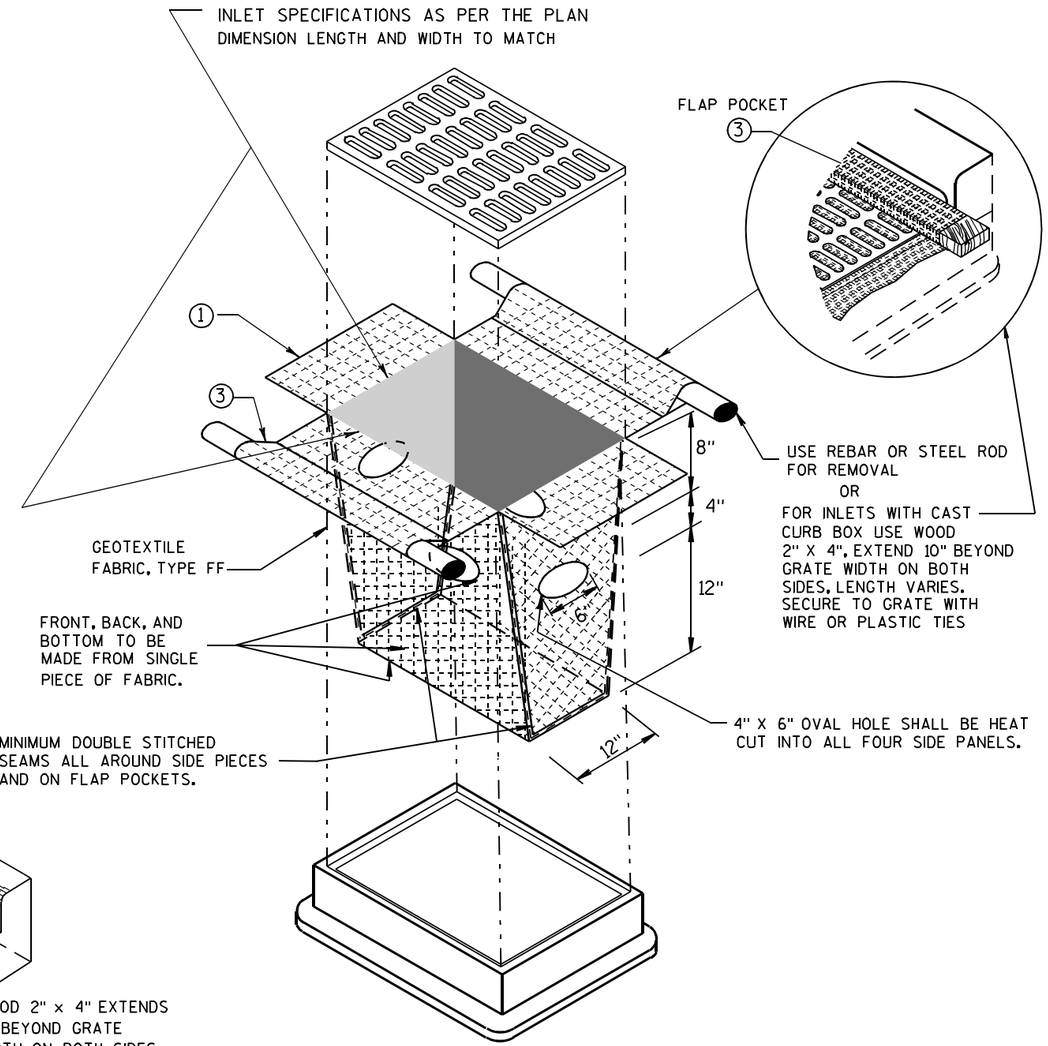


INLET PROTECTION, TYPE A



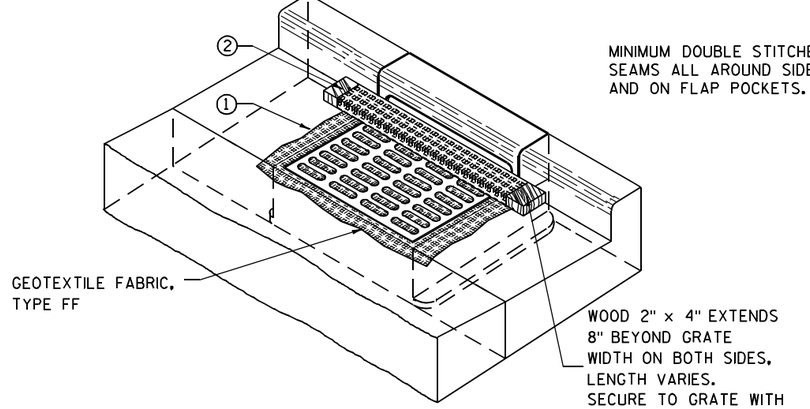
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

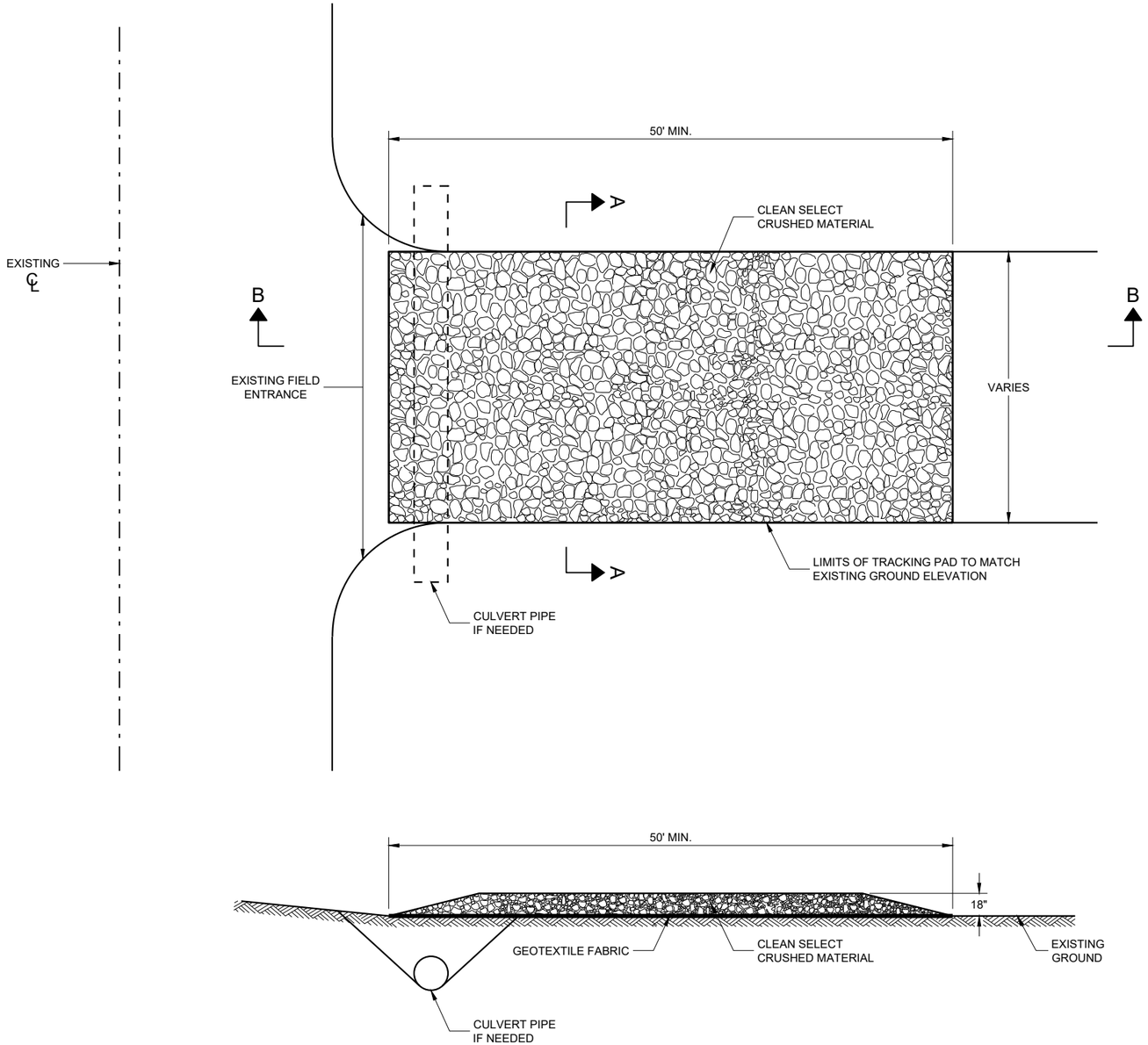
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



SECTION B - B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

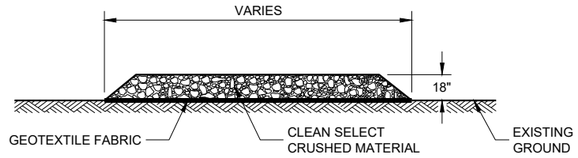
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

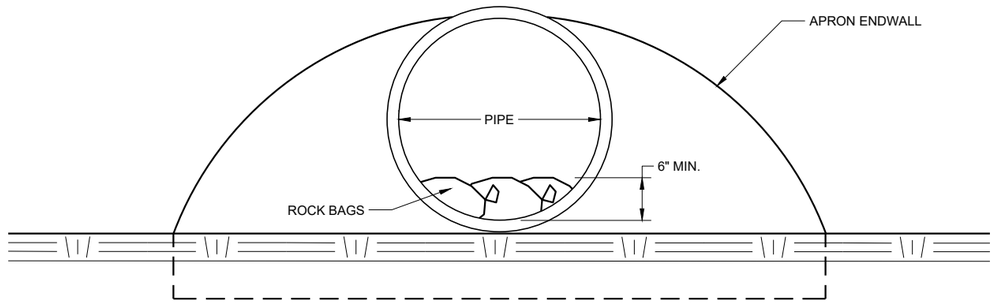
3/24/2011
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

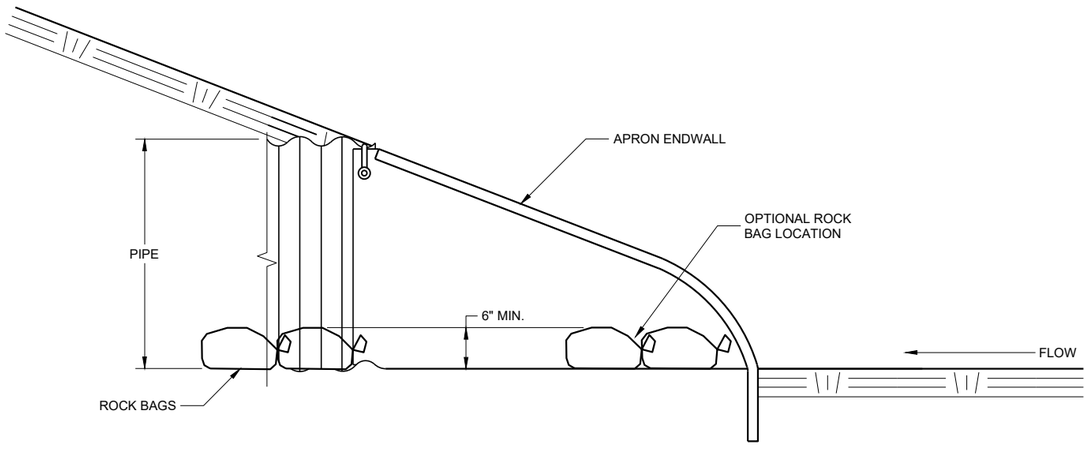
FHWA

6

SDD 08E14 - 01



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

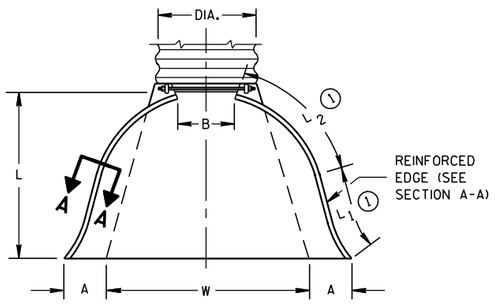
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

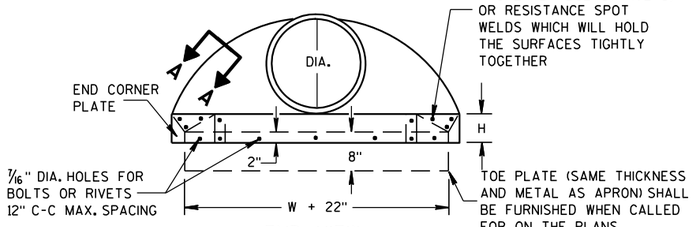
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

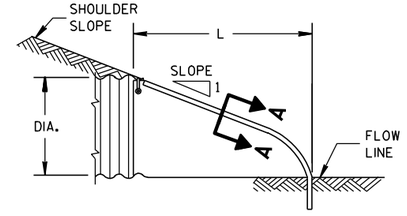
*MINIMUM
**MAXIMUM



PLAN VIEW

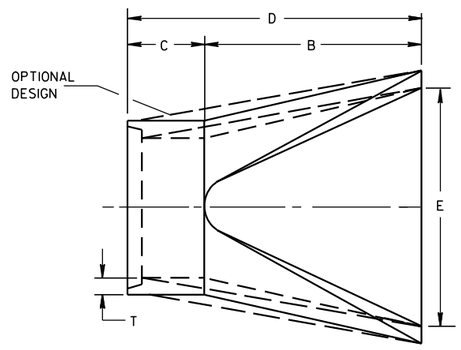


END VIEW

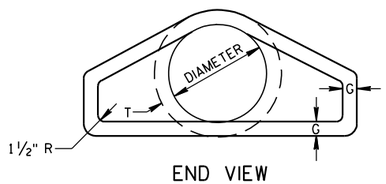


SIDE ELEVATION

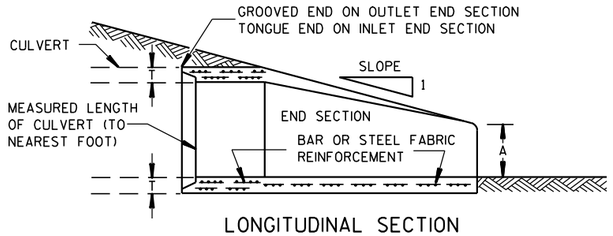
METAL ENDWALLS



PLAN

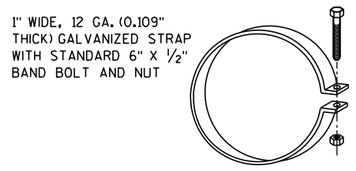


END VIEW



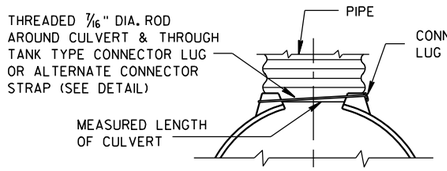
LONGITUDINAL SECTION

CONCRETE ENDWALLS

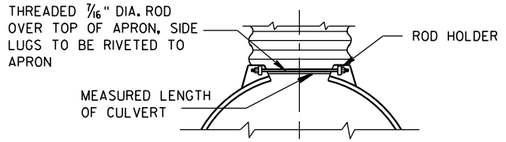


ALTERNATE FOR TYPE 1 CONNECTION

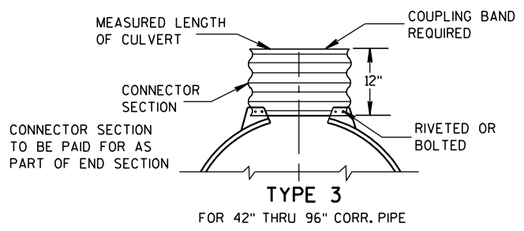
END SECTION CONNECTOR STRAP



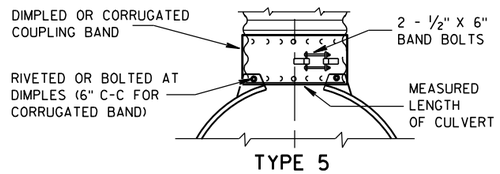
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

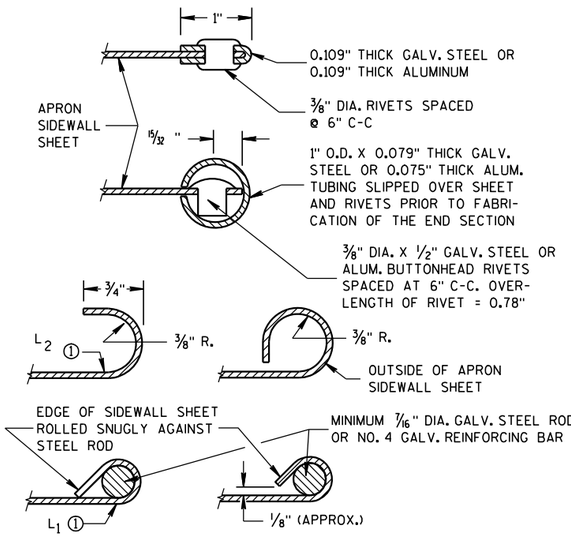
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

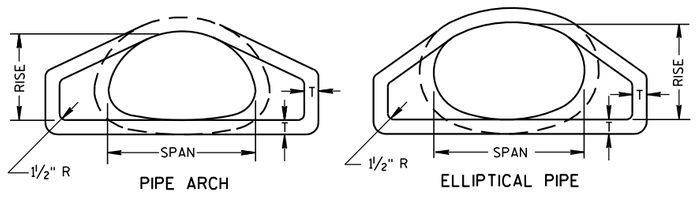
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

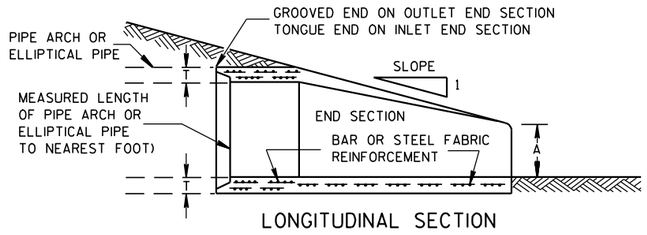
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP 645 NEER
FHWA

6

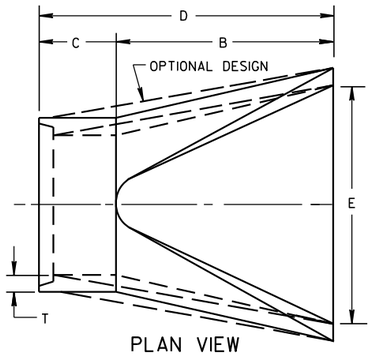
S.D.D. 8 F 1-11



END VIEW

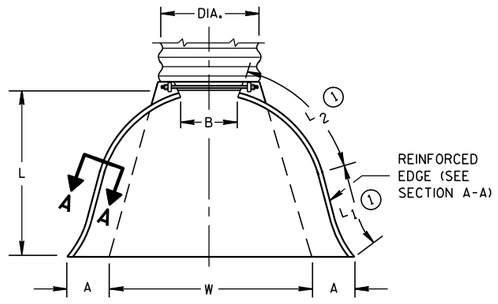


LONGITUDINAL SECTION

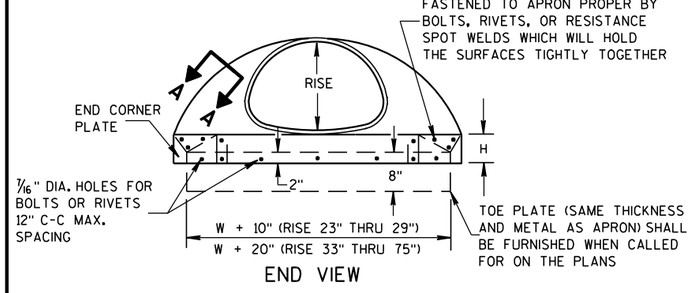


PLAN VIEW

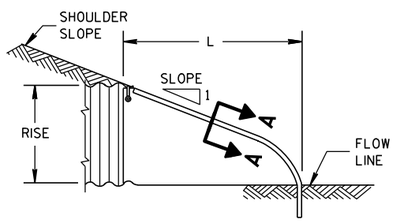
CONCRETE ENDWALLS



PLAN VIEW

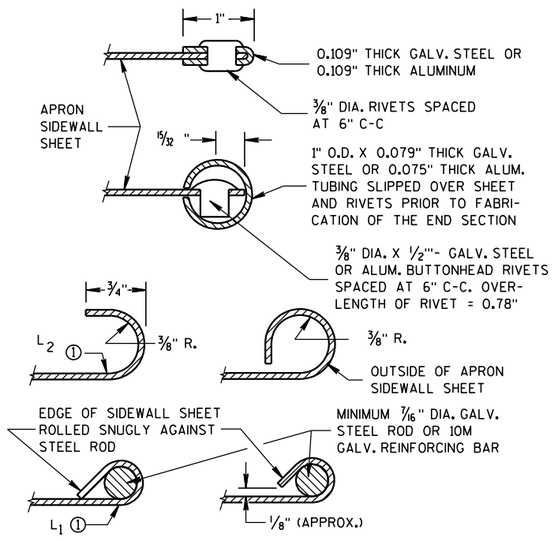


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

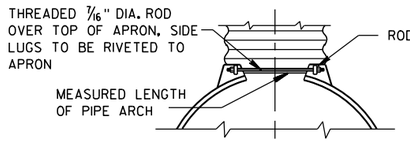
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

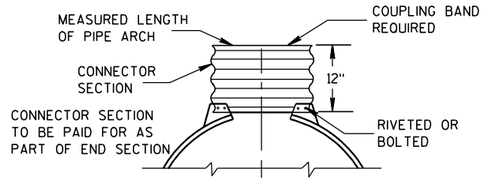
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



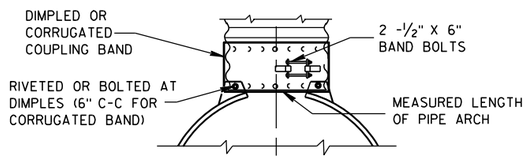
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

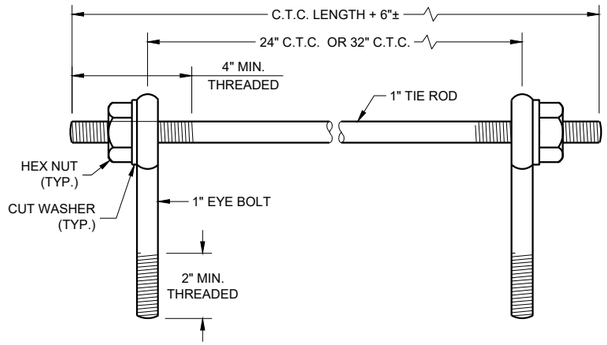
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

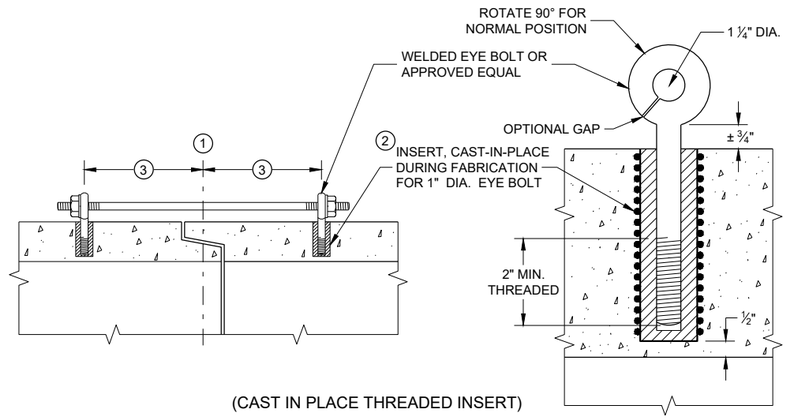
FHWA

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

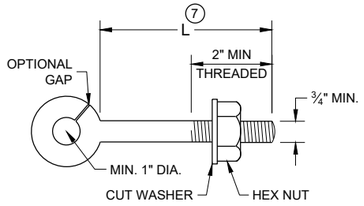
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

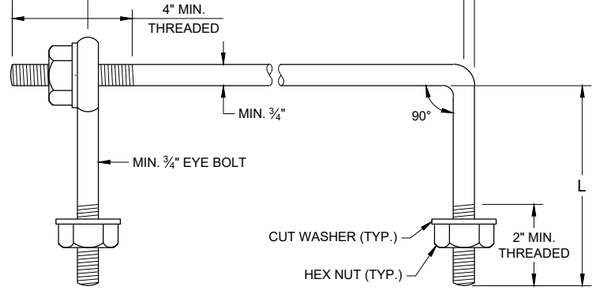
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

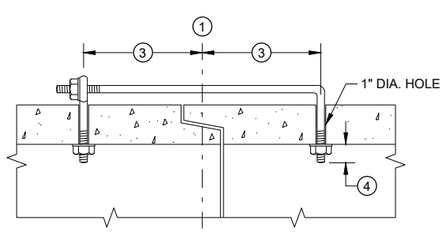


EYE BOLT (7)

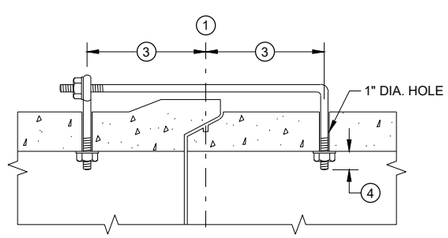
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

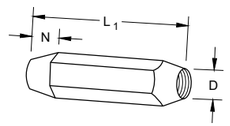
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



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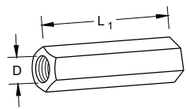
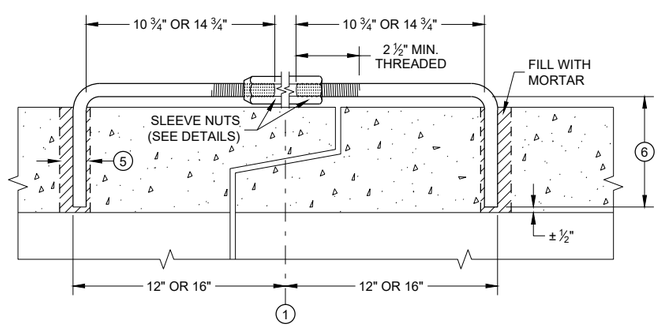


PLAIN

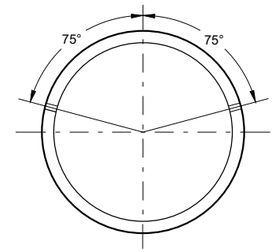
RIGHT AND LEFT THREADS

SLEEVE NUTS



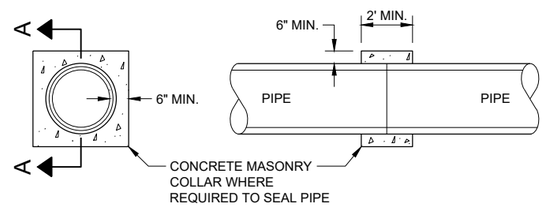
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

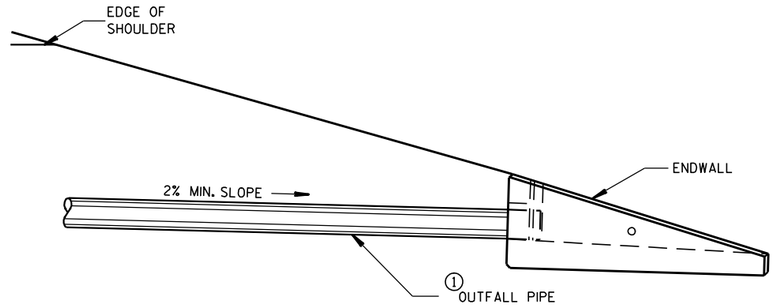
FHWA

SDD 08F04 - 08

SDD 08F04 - 08

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

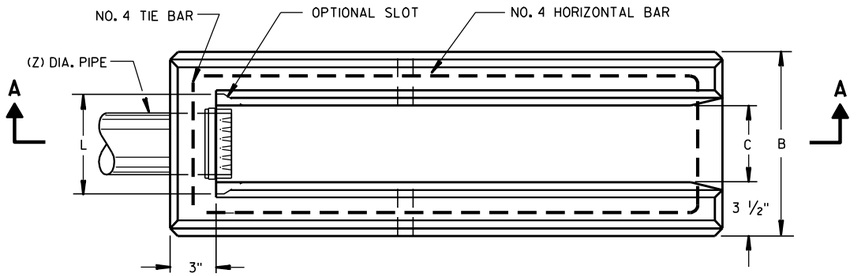
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

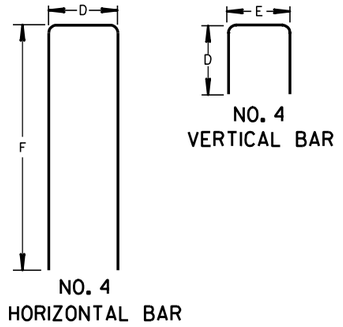
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

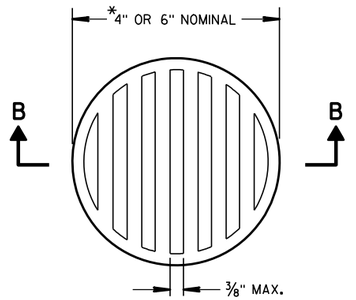
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

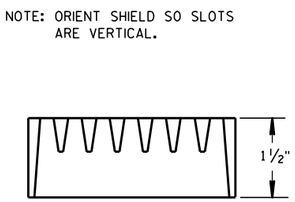


PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

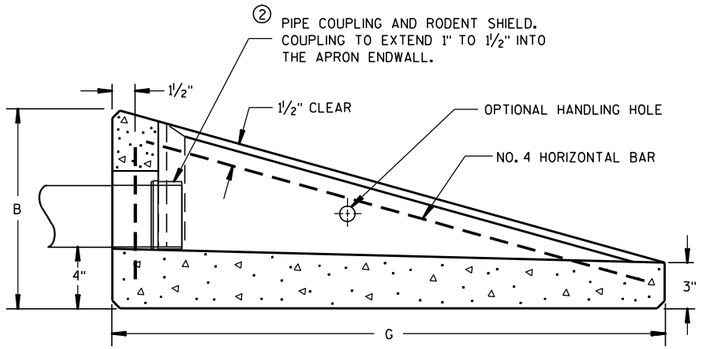




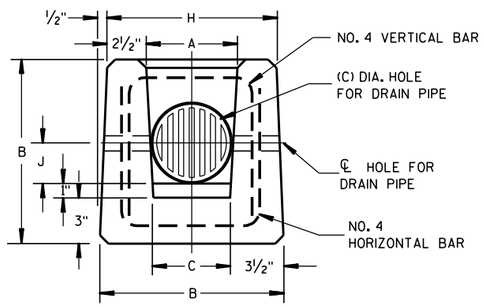
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



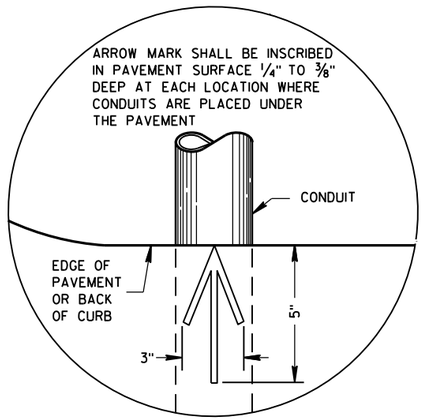
END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

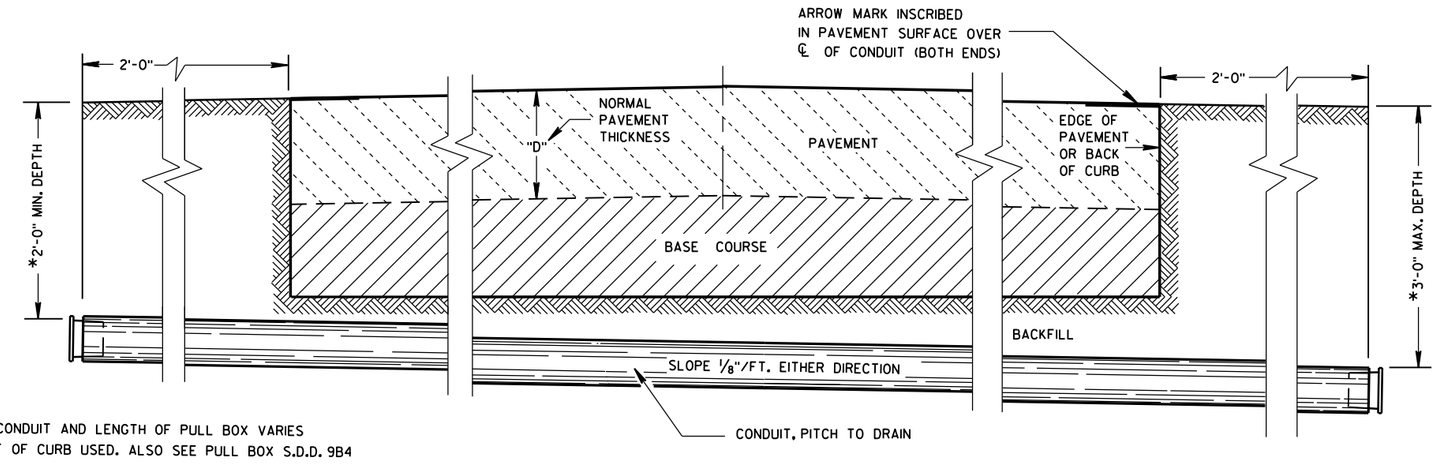
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 DATE
/S/ Rory L. Rhinehart
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 649
FHWA

6

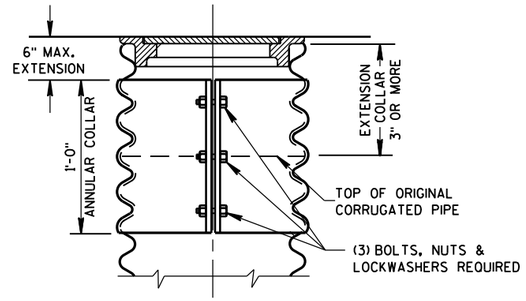
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

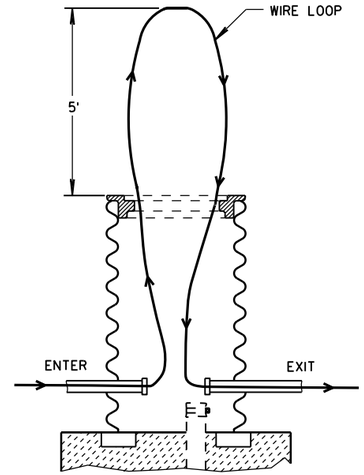
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

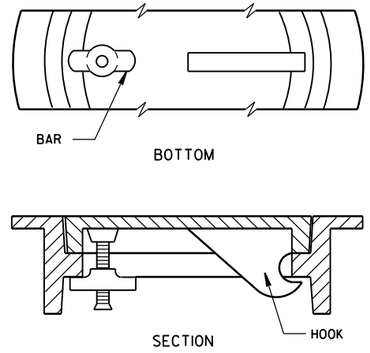
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

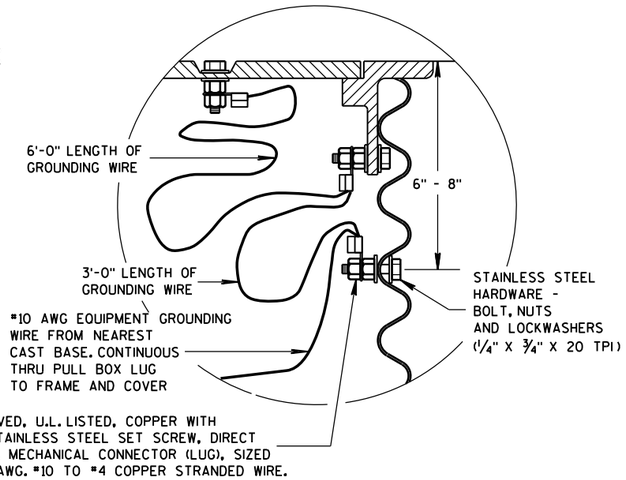


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

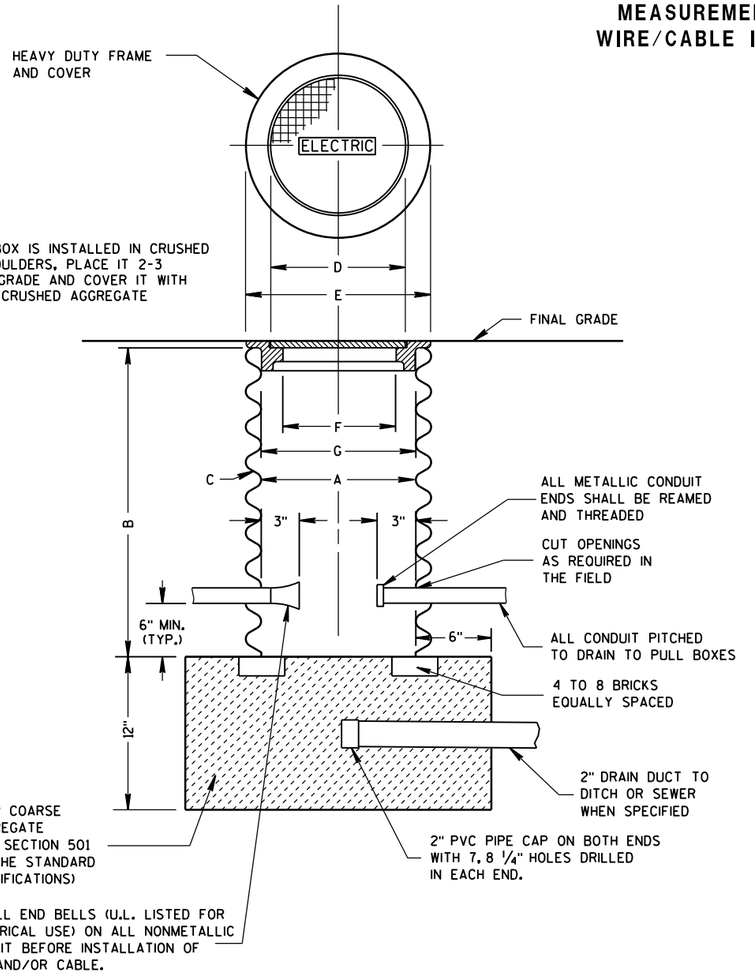


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

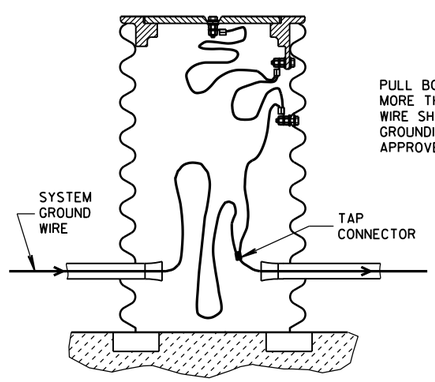
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

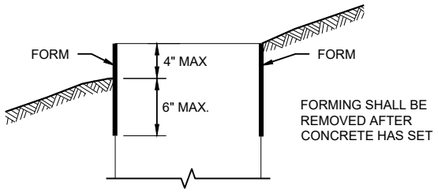
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 650
FHWA

6

S.D.D. 9 B 4-11

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

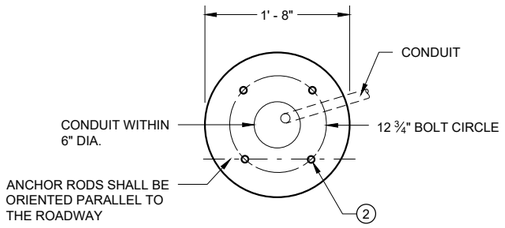
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

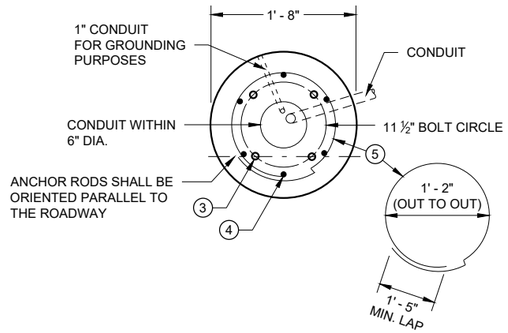
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

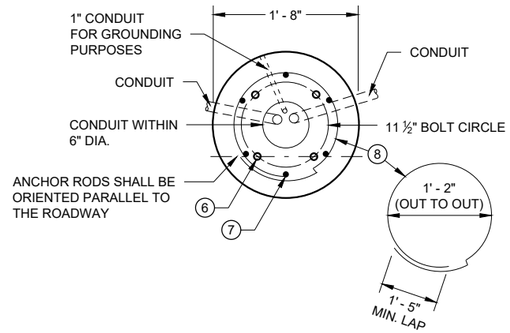
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

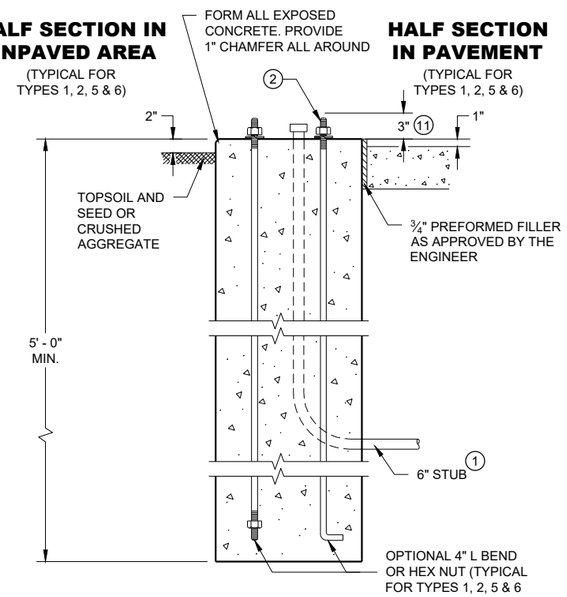
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

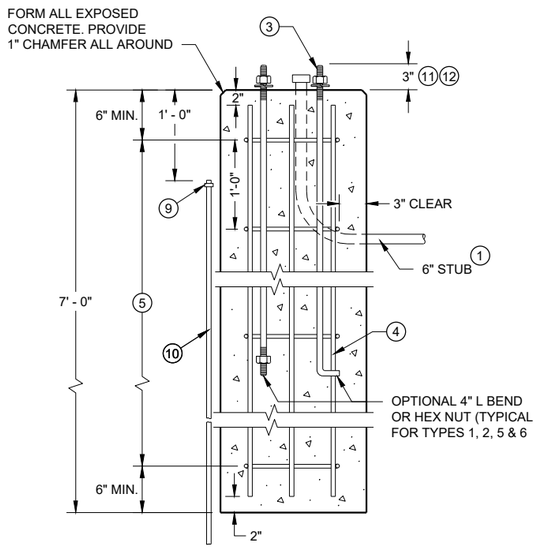
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



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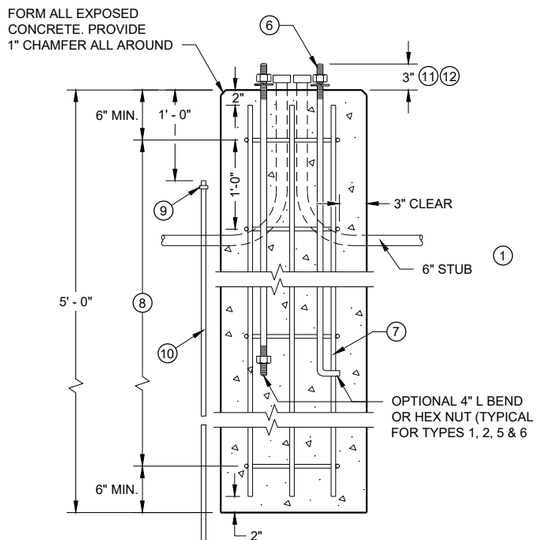


TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 651

FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

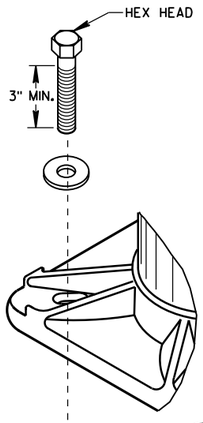
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

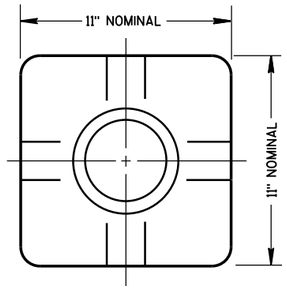
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

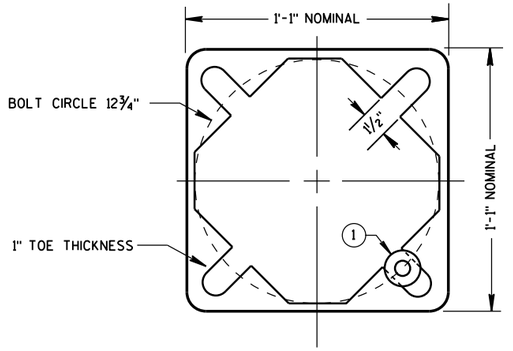
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

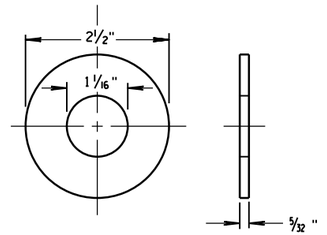




TOP VIEW
(PEDESTAL BASE)

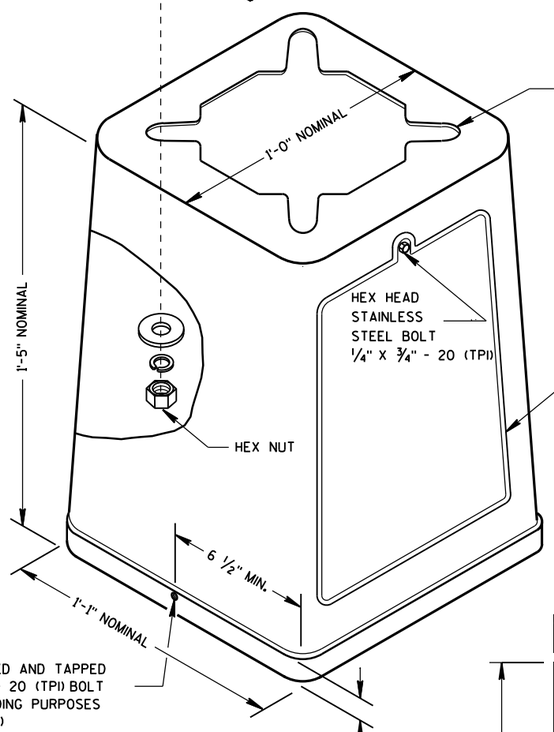


BOTTOM VIEW
(PEDESTAL BASE)

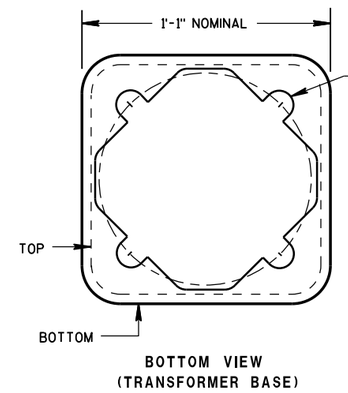


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

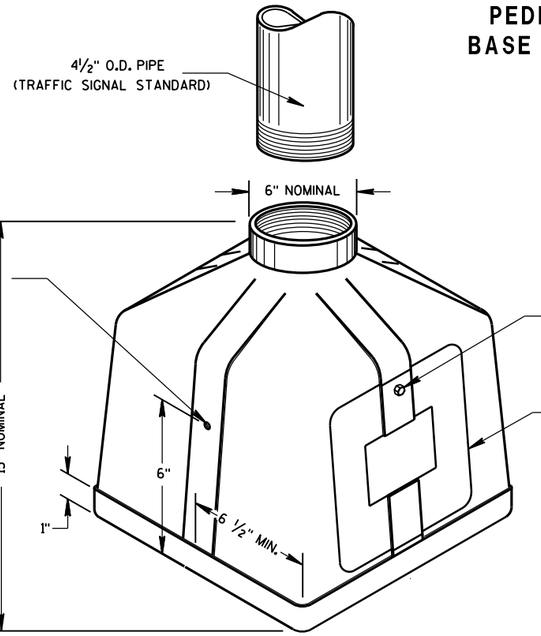
PEDESTAL BASE WASHER (1)



ISOMETRIC VIEW

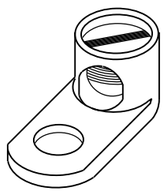


BOTTOM VIEW
(TRANSFORMER BASE)



ISOMETRIC VIEW

PEDESTAL BASE

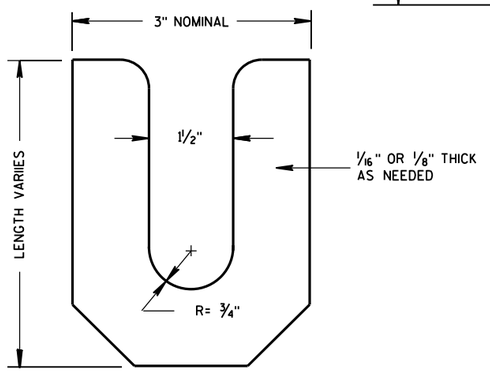


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 C 3-4

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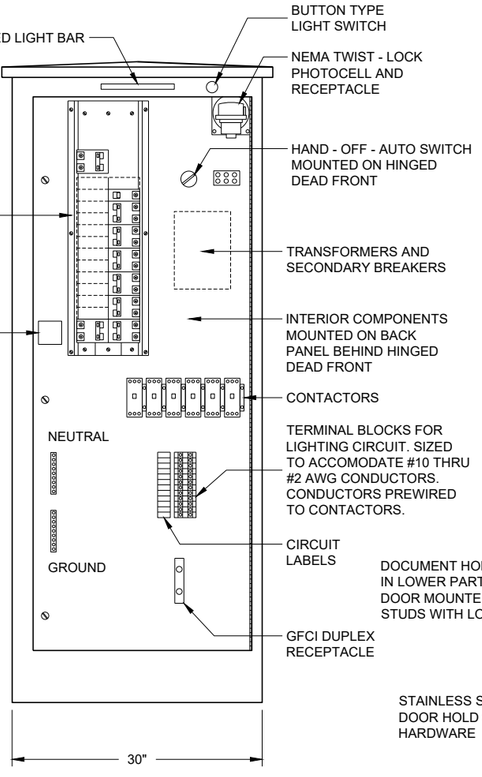
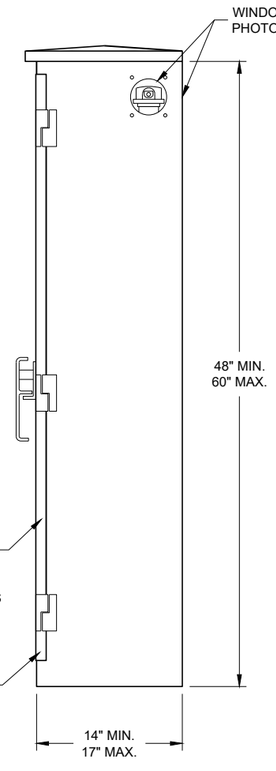
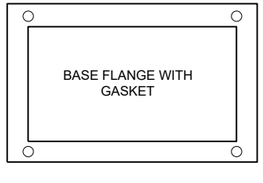
S.D.D. 9 C 3-4

FRONT INTERIOR ELEVATION

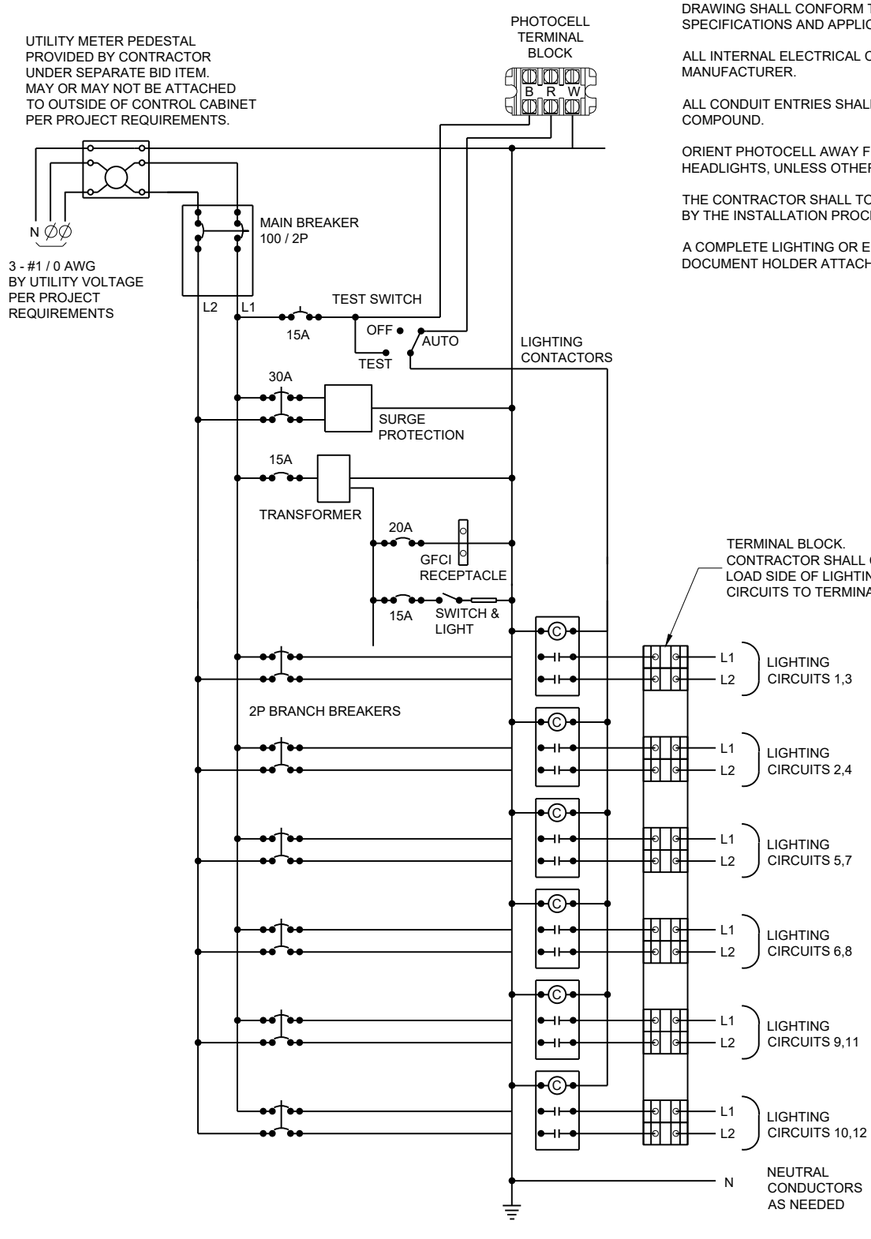


SIDE VIEW





LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

L30
LIGHTING CONTROL CABINET 240 / 480 VOLT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 653

FHWA

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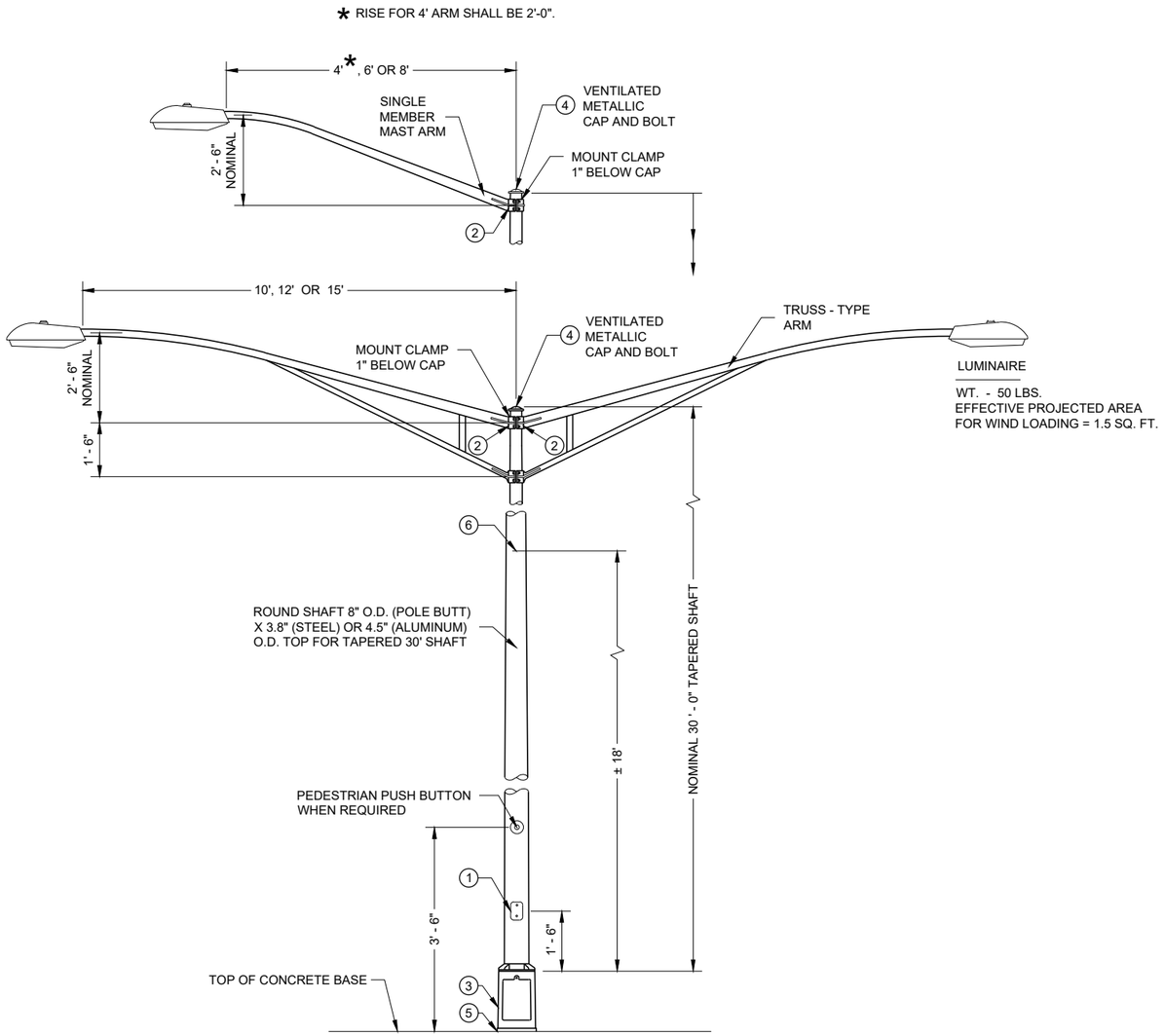
SDD 09D05 - 02



TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

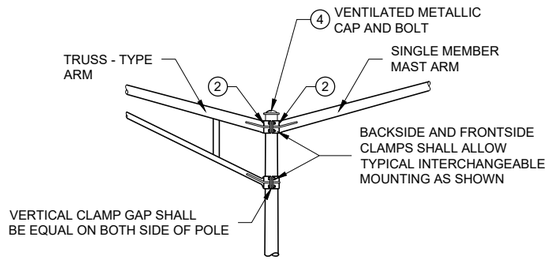
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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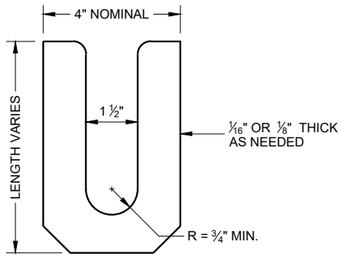
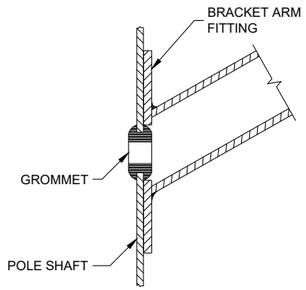
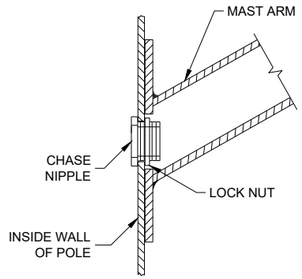
SDD 09E01 - 15d



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

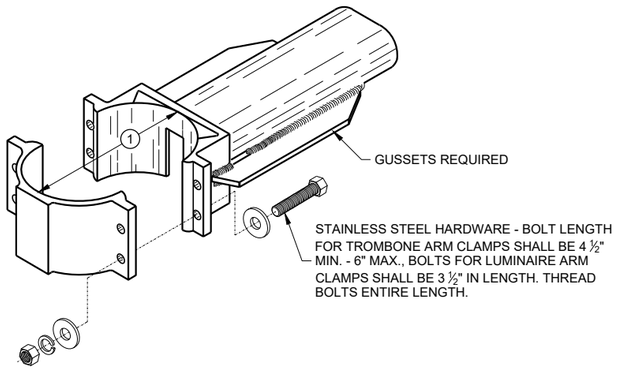
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

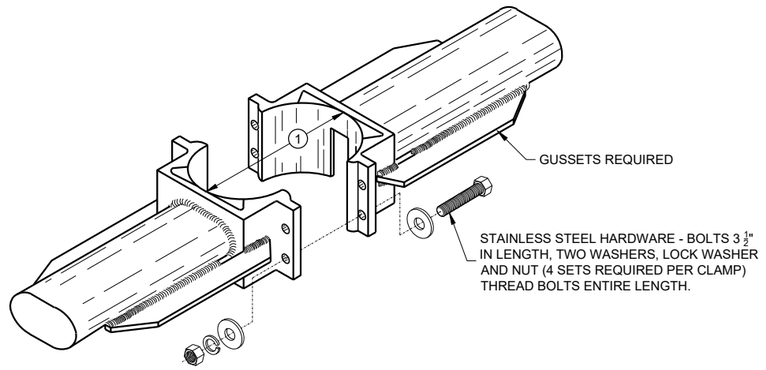
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

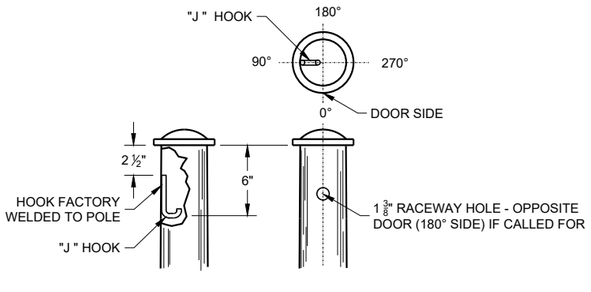
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



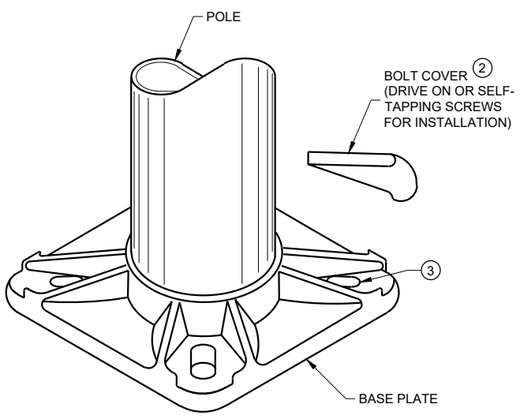
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



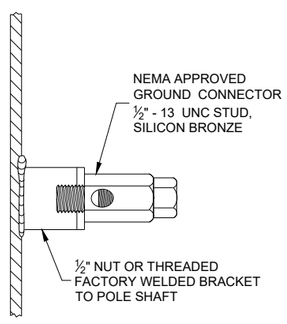
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

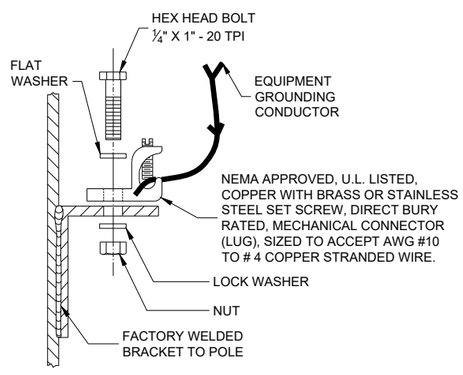


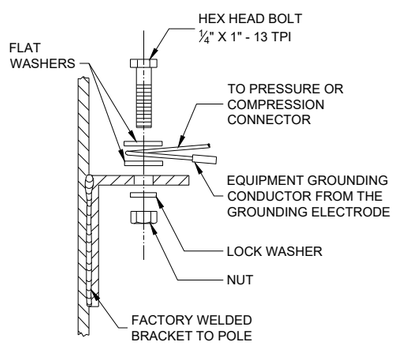
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 655

FHWA

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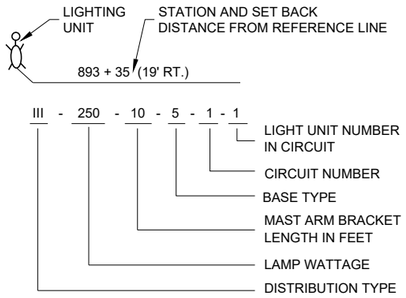
SDD 09E01 - 15g

GENERAL NOTES

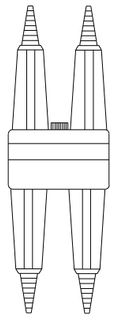
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

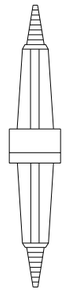
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



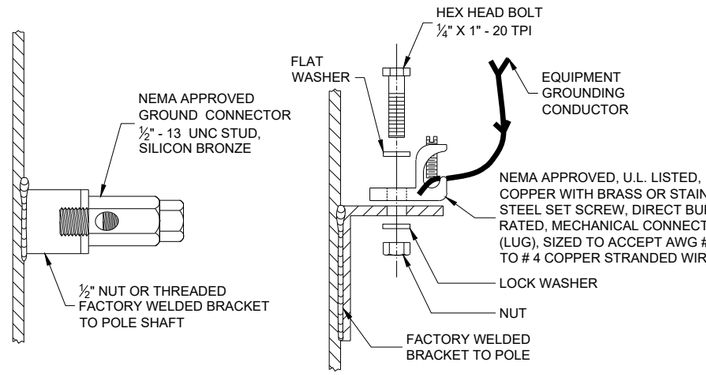
LIGHTING UNIT CODE
(TYPICAL)



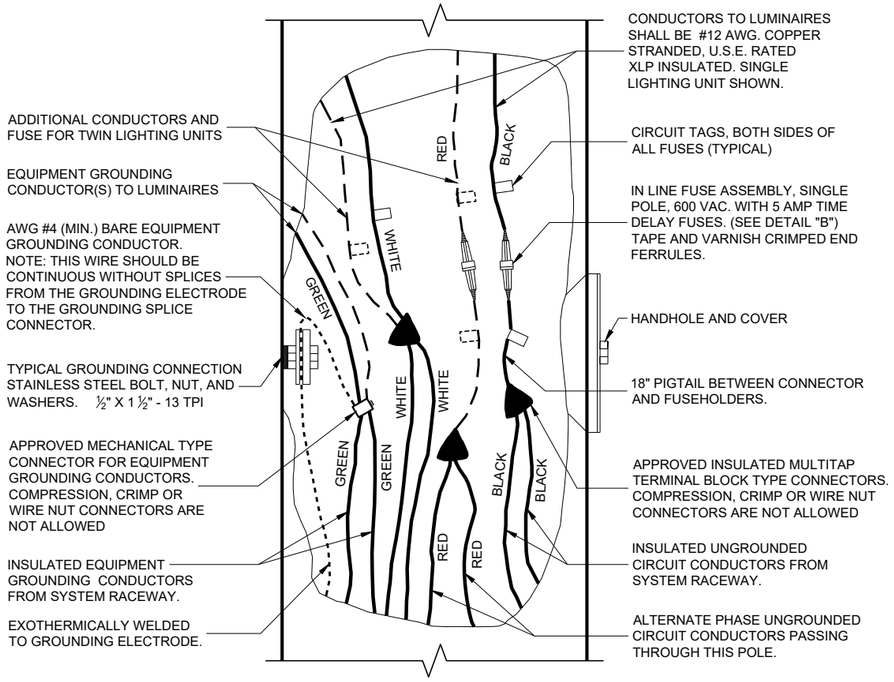
DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



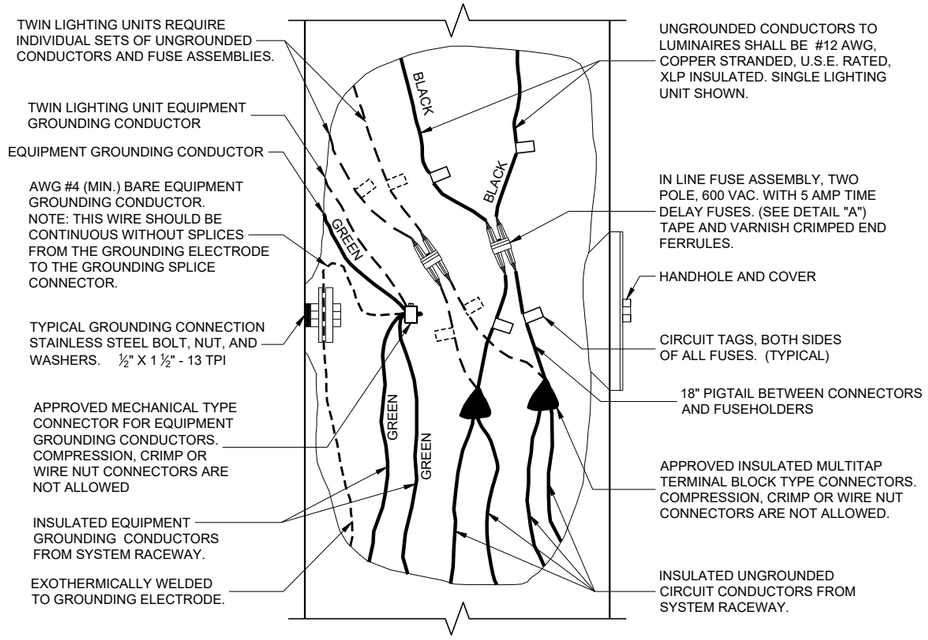
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 656

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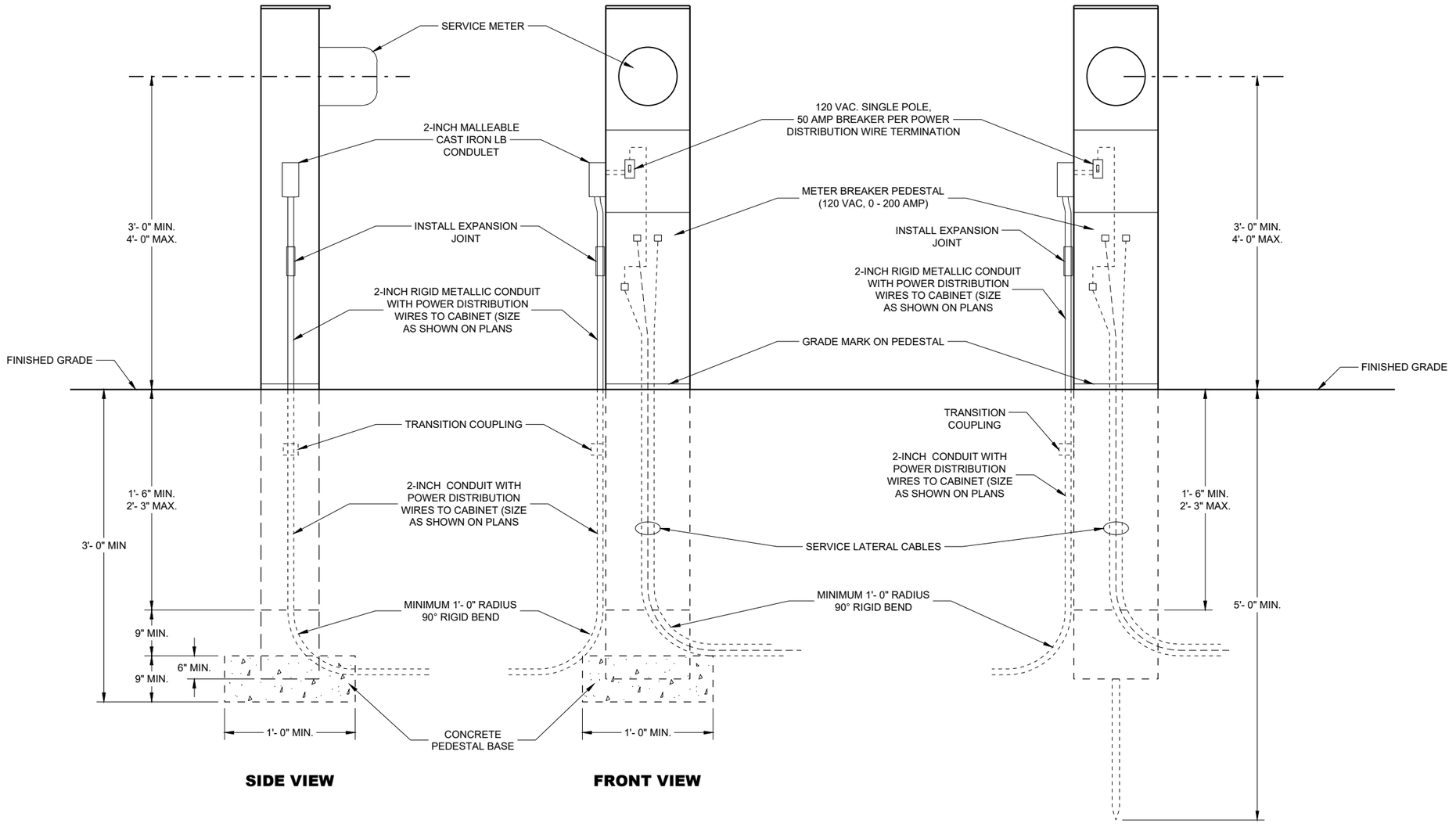

2 CIRCUIT METER BREAKER PEDESTAL

ALTERNATE SUPPORTING STAKE
(IF APPROVED BY UTILITY)

2 CIRCUIT METER BREAKER PEDESTAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 657
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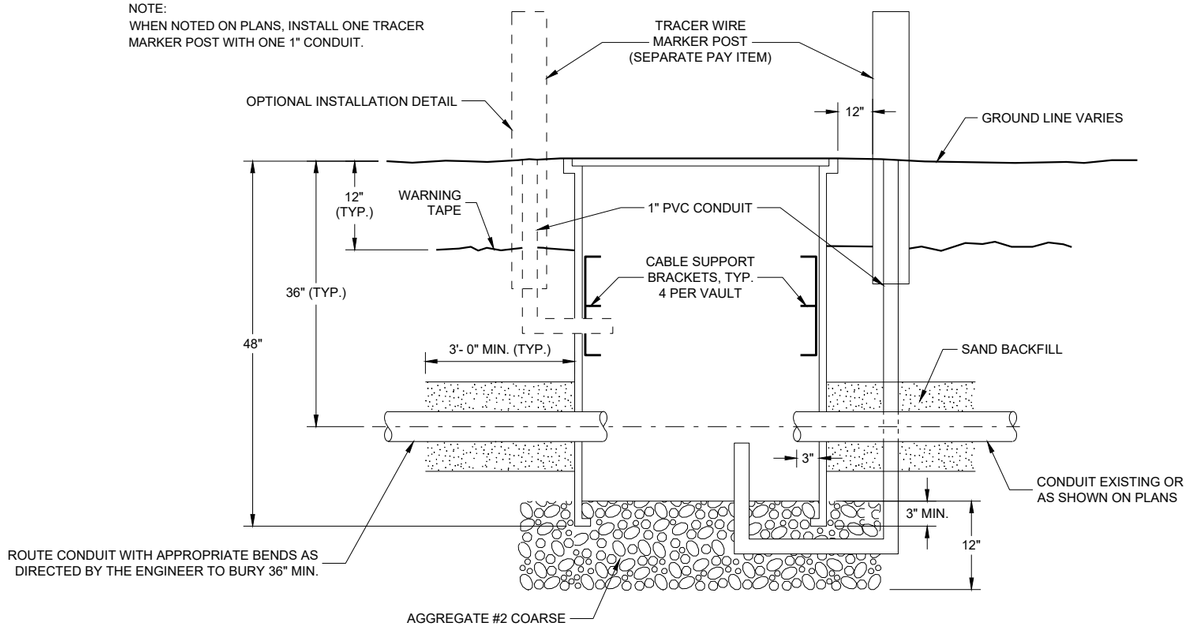
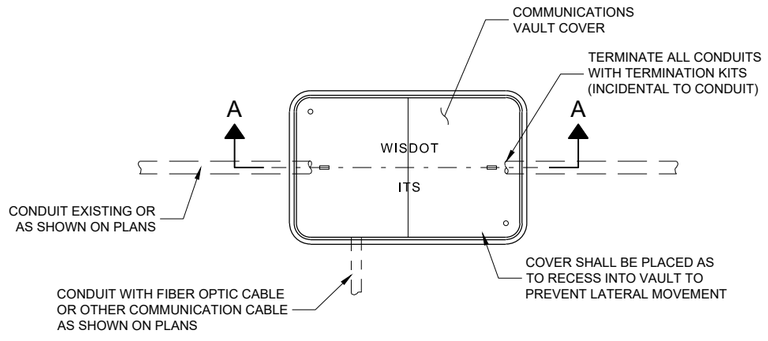
NOTE:
WHEN NOTED ON PLANS, INSTALL ONE TRACER MARKER POST WITH ONE 1" CONDUIT.



SECTION A - A



PLAN VIEW

COMMUNICATIONS VAULT TYPE 1

GENERAL NOTES

PROVIDE VAULT WITH OPEN BASE.

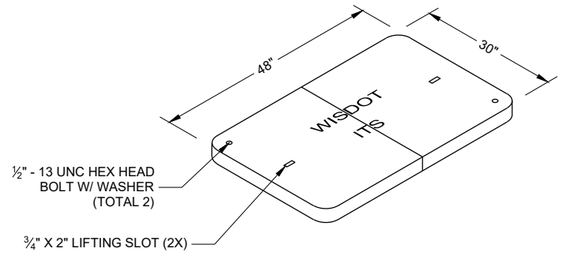
COVER SHALL HAVE A MINIMUM DESIGN LOAD OF 15,000 LBS AND SHALL LOCK.

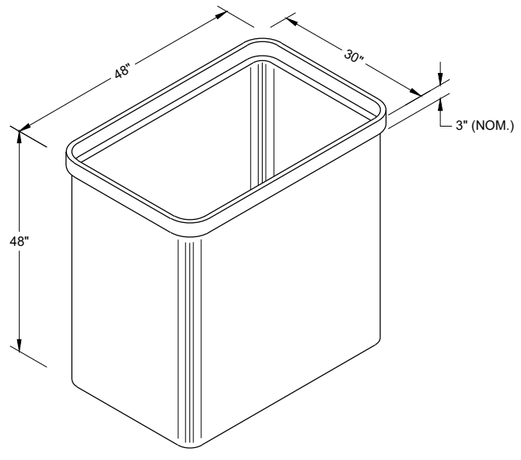
ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION, OR PUNCH DRIVEN AT TIME OF PLACEMENT.

VAULTS SHALL BE OF ONE-PIECE CONSTRUCTION. TWO-PIECE/STACKABLE VAULTS WILL NOT BE PERMITTED.

FIELD PLACEMENT OF COMMUNICATIONS VAULTS SHALL BE AS DIRECTED BY THE ENGINEER.

FIBER TRACER MARKER POSTS SHALL BE CONSTRUCTED WITH HIGH-IMPACT PLASTIC MATERIAL WHICH IS FADE RESISTANT AND UV STABLE. ALL HARDWARE SHALL BE STAINLESS STEEL AND CONTAIN A MINIMUM OF FIVE STANDARD TERMINALS.





ISOMETRIC VIEW

COMMUNICATION VAULT TYPE 1	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2017 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL ENGI 658
FHWA	

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SDD 09H09 - 02

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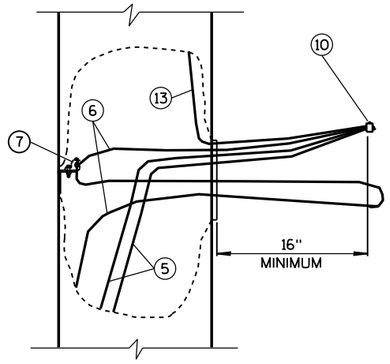
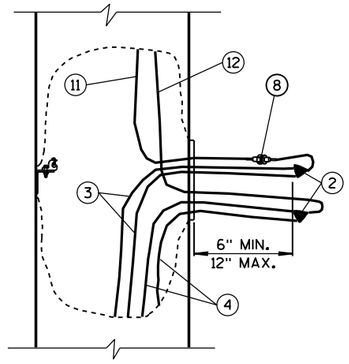
SDD 09H09 - 02

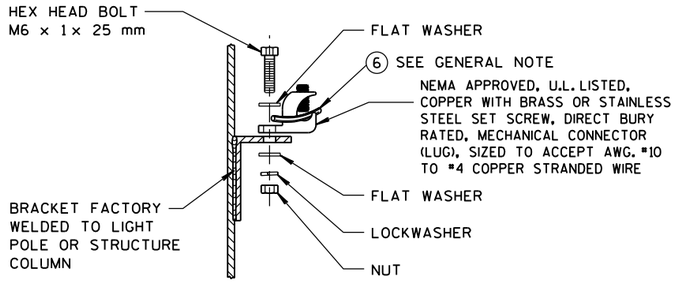


EQUIPMENT GROUNDING CONDUCTOR SLACK



UNGROUNDED CONDUCTOR SLACK (AND GROUNDED NEUTRAL SLACK IN GROUNDED NEUTRAL SYSTEM)

TYPICAL CONDUCTOR SLACK AT HANDHOLES



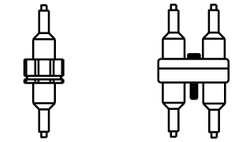
HANDHOLE GROUNDING LUG

(NUT, BOLT, WASHERS, AND LOCK WASHERS SHALL BE STAINLESS STEEL)

CONDUCTOR COLOR CODES

KEY	CONDUCTOR	COLOR
3	UNGROUNDED LINE WIRE	*
4	GROUNDED LINE WIRE	WHITE
5	SYSTEM GROUNDING LINE WIRE	GREEN
6	GROUNDING ELECTRODE CONDUCTOR	BARE
11	UNGROUNDED POLE WIRE	*
12	GROUNDED POLE WIRE	WHITE
13	EQUIPMENT GROUNDING POLE WIRE	GREEN

* FOLLOW COLOR CODING SHOWN IN THE PLANS. WHERE THE PLANS DO NOT SHOW COLOR CODING, USE BLACK FOR SINGLE LUMINAIRE POLES; BLACK AND RED FOR TWIN LUMINAIRE POLES.



1 POLE (1P) 2 POLE (2P)

FUSE ASSEMBLIES

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

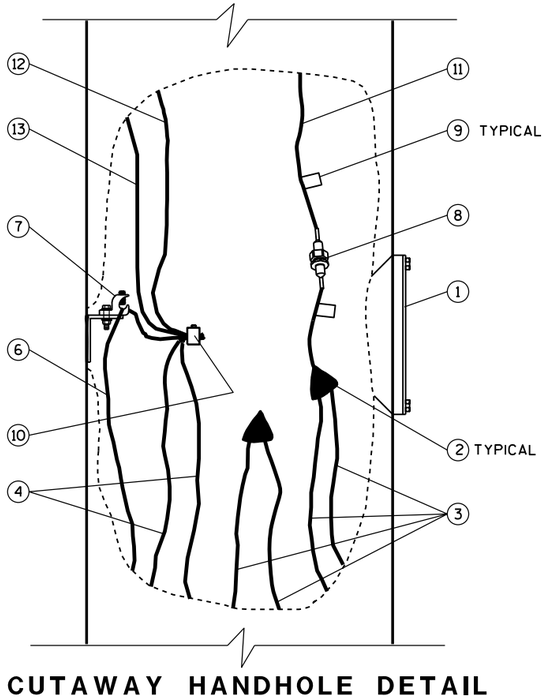
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

THREE POLE WIRES ARE SHOWN FOR A SINGLE LUMINAIRE LIGHT POLE. THREE ADDITIONAL POLE WIRES REQUIRED FOR TWIN LUMINAIRE LIGHT POLES ARE OMITTED FROM THE DRAWING FOR CLARITY. IN THE TWIN POLE CASE, BUNDLE EACH SET OF THREE WIRES WITH A NYLON CABLE TIE.

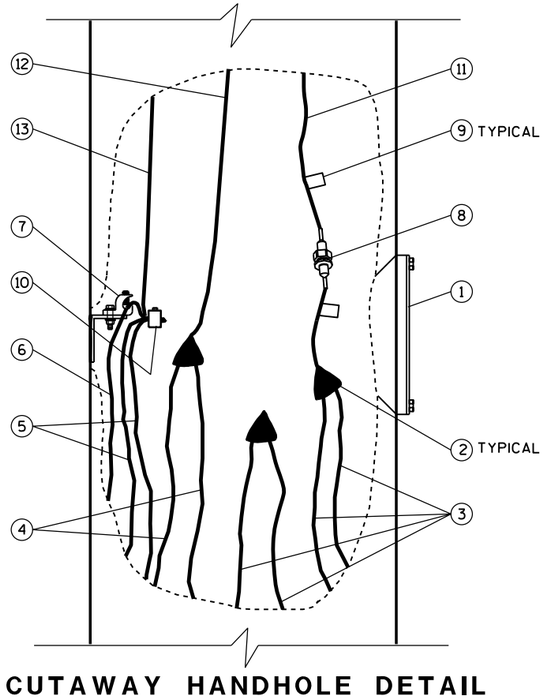
IN 3-PHASE SYSTEMS, THERE WILL BE ONE MORE UNGROUNDED LINE WIRE, WHICH IS OMITTED FROM THE DRAWING FOR CLARITY.

CIRCUIT TAGS SHALL BE INSTALLED ONLY WHERE REQUIRED IN THE SPECIAL PROVISIONS.



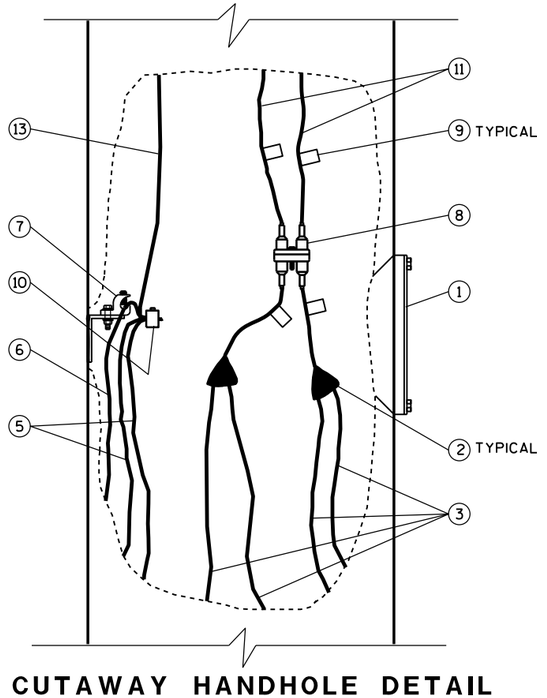
CUTAWAY HANDHOLE DETAIL

GROUNDED NEUTRAL SYSTEMS
1-Φ



CUTAWAY HANDHOLE DETAIL

ISOLATED NEUTRAL SYSTEMS
1-Φ SHOWN; 3-Φ WYE SIMILAR
(SEE GENERAL NOTE)



CUTAWAY HANDHOLE DETAIL

PHASE-TO-PHASE SYSTEMS
1-Φ SHOWN; 3-Φ DELTA SIMILAR
(SEE GENERAL NOTE)

NOTE: REQUIRED CONDUCTOR SLACK NOT SHOWN ON "CUTAWAY HAND HOLE" DETAILS FOR DRAWING CLARITY, SEE "TYPICAL CONDUCTOR SLACK AT HANDHOLES" ON THIS SHEET.

(1) HANDHOLE AND COVER
(2) INSULATED SPLICE
(3) UNGROUNDED LINE WIRE
(4) GROUNDED LINE WIRE
(5) SYSTEM GROUNDING LINE WIRE
(6) GROUNDING ELECTRODE CONDUCTOR
(7) HANDHOLE GROUNDING LUG
(8) FUSE ASSEMBLY, 1P OR 2P AS REQUIRED
(9) CIRCUIT TAG (SEE GENERAL NOTE)
(10) REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTOR (NOT INSULATED)
(11) UNGROUNDED POLE WIRE
(12) GROUNDED POLE WIRE
(13) EQUIPMENT GROUNDING POLE WIRE

ELECTRICAL HANDHOLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 10 A 1-3

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING, SDD10A01.

USE TIME DELAY FUSE PER LUMINAIRE MANUFACTURER RECOMMENDATION.

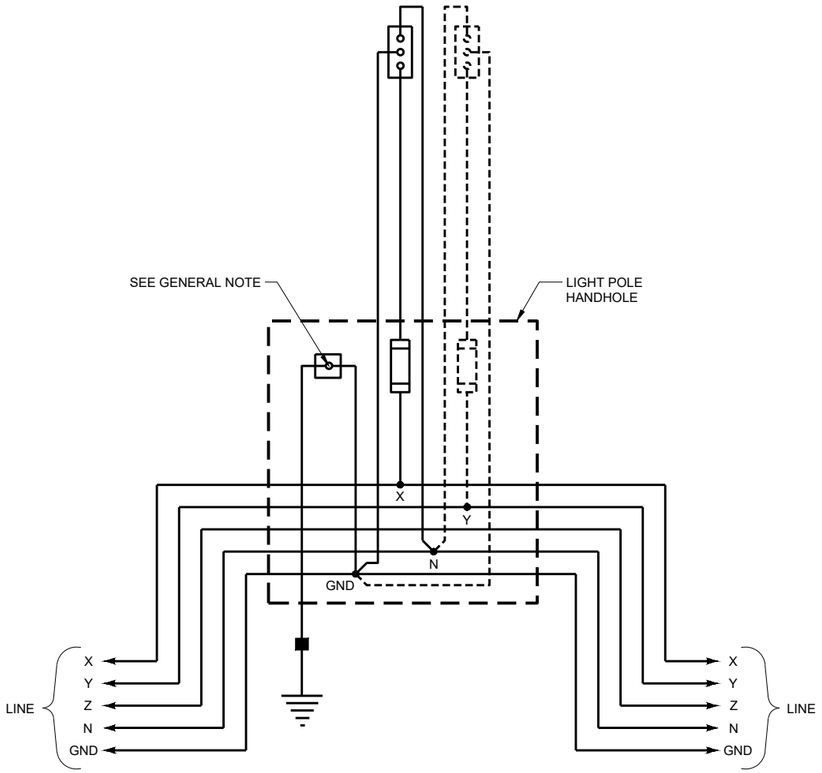
THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLD GROUNDING LUG TO THE CONNECTOR.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

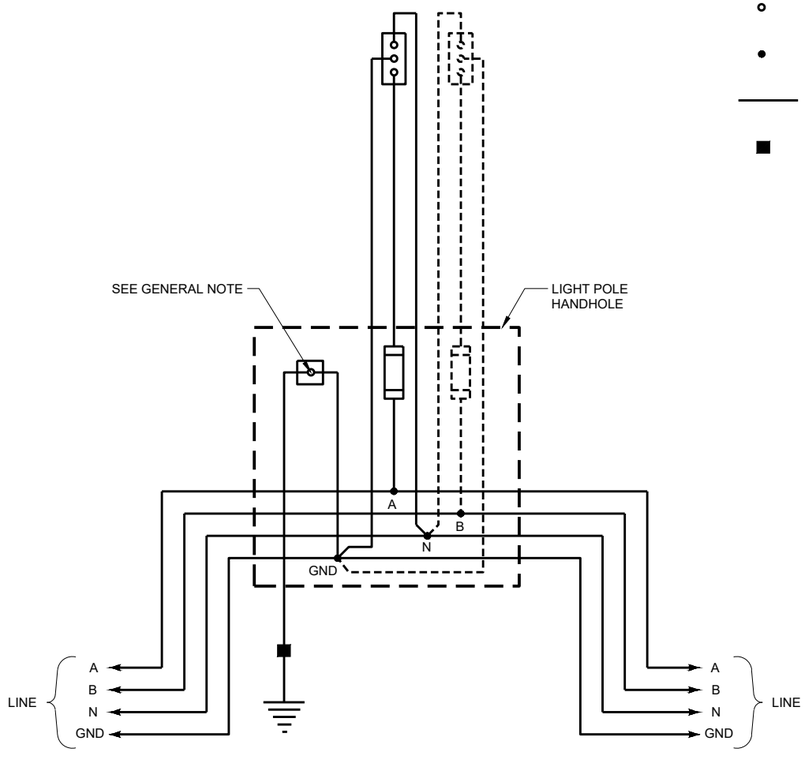
LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
ϕ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
3 - ϕ 208Y / 120VAC OR 480Y / 277VAC 4 WIRE



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
1 - ϕ 120 / 240VAC OR 240 / 480VAC 3 WIRE

ELECTRICAL DETAILS
GROUND MOUNT LIGHT POLES
ISOLATED NEUTRAL SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 660

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SDD 10A05 - 03

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SDD 10A05 - 03

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING, SDD10A01.

USE TIME DELAY FUSE PER LUMINAIRE MANUFACTURER RECOMMENDATION.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

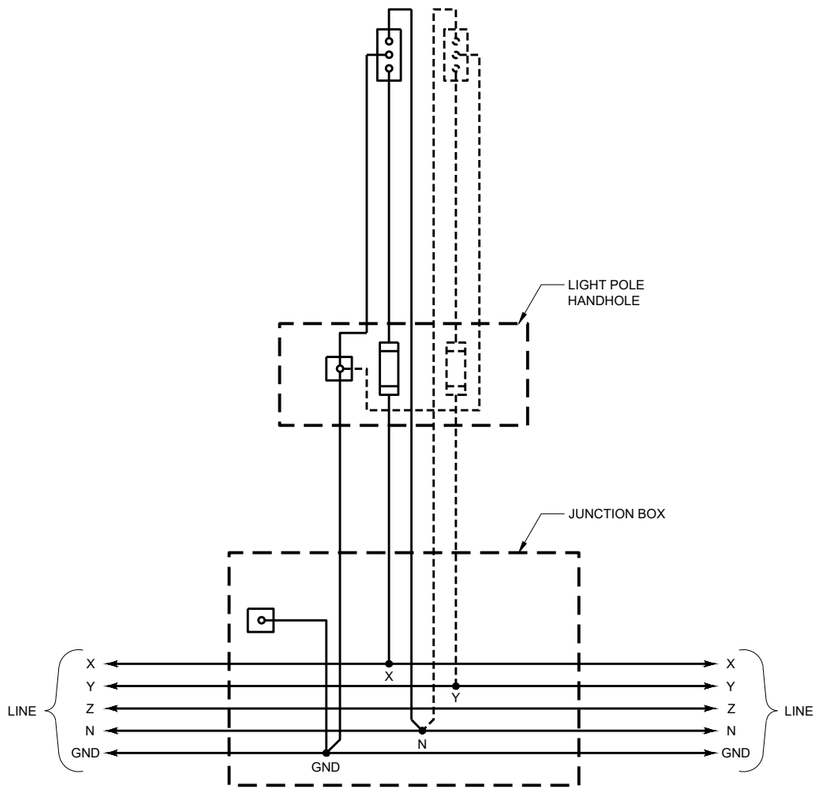
THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

WIRE SIZE FROM THE JUNCTION BOX TO THE POLE HANDHOLE SHALL EQUAL THE SIZE OF THE POLE WIRE.

THE INTENT OF JUNCTION BOX SPLICES AS SHOWN IN THIS DETAIL IS FOR LIGHTING SYSTEMS WITH HEAVY LINE WIRE TOO LARGE TO PULL THROUGH THE CONDUIT INTO THE POLE HANDHOLE, DUE TO CONDUIT FILL REQUIREMENTS OF N.E.C. AND / OR THE STIFFNESS OF THE WIRE COMPARED TO THE NUMBER OF BENDS IN THE CONDUIT. IN CASES WHERE LINE WIRE IS LIGHTER, SUCH AS SMALL ER SYSTEMS OR TOWARD THE FURTHEST END OF A LARGER SYSTEM PULL THE LINE WIRE INTO THE POLE HANDHOLE FOR SPLICING.

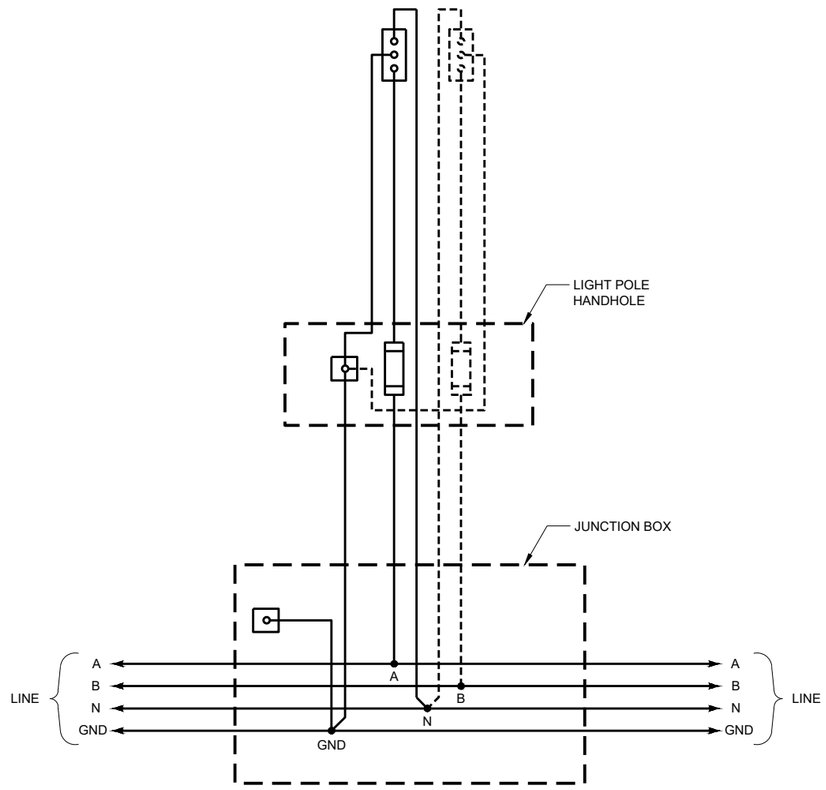
LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
ϕ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
3 - ϕ 208Y / 120VAC OR 480Y / 277VAC 4 WIRE



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
1 - ϕ 120 / 240VAC OR 240 / 480VAC 3 WIRE

ELECTRICAL DETAILS
STRUCTURE MOUNT LIGHT POLES
ISOLATED NEUTRAL SYSTEMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 661

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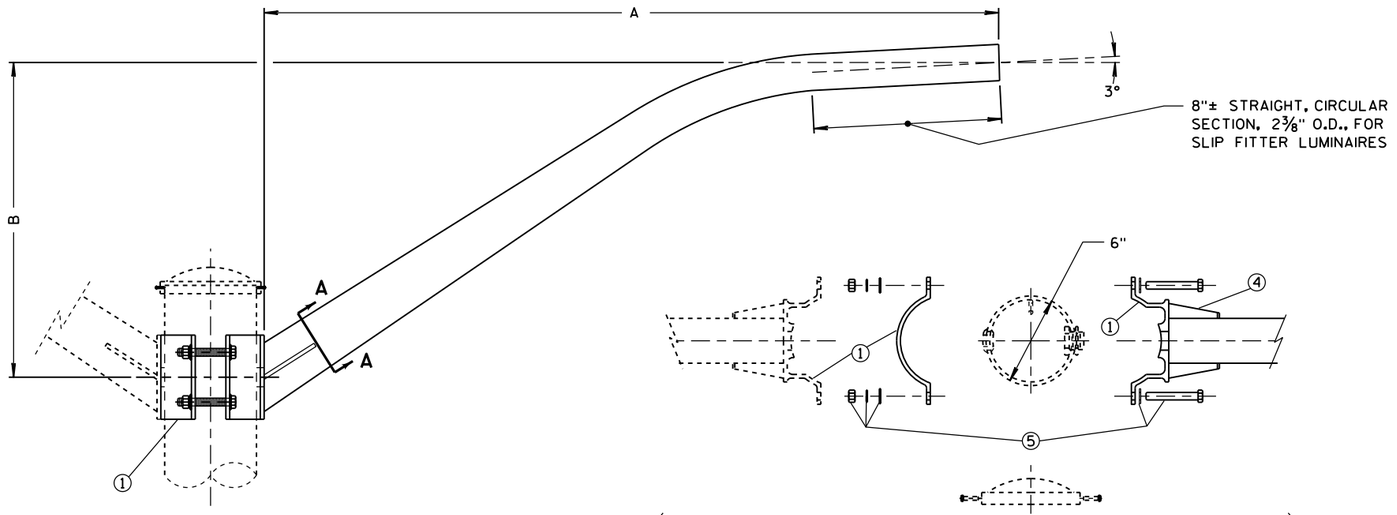
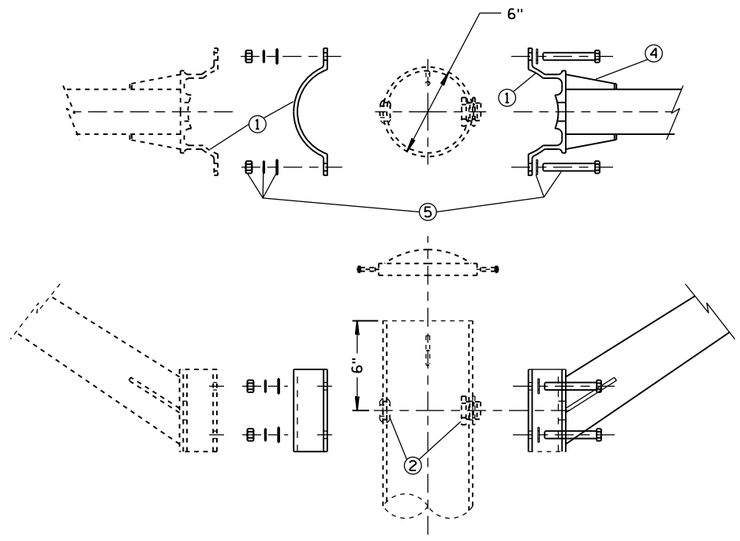


LUMINAIRE ARMS, SINGLE MEMBER, 6-INCH CLAMP - FOR POLES, TYPE 7, A OR E

VARIOUS LENGTHS (SEE TABLE)



CLAMP ASSEMBLY

SINGLE MEMBER CLAMP SHOWN

TYPE	DIM. A NOMINAL ARM LENGTH (FT)	DIM. B APPROX. RISE (FT)
SINGLE MEMBER	4.0	2.0
SINGLE MEMBER	8.0	3.0
SINGLE MEMBER	10.0	3.0
SINGLE MEMBER	15.0	3.0

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ARMS AND CLAMP EXTRUSIONS SHALL BE CONSTRUCTED OF NATURAL FINISH 6063-T6 ALUMINUM.

HEAT TREATMENT OF WELDS IN STRUCTURAL AREAS IS REQUIRED.

ALL THREADED FASTENER COMPONENTS SHALL BE STAINLESS STEEL. NUTS SHALL BE HEX NUTS. BOLTS SHALL BE HEX HEAD. ALL THREADED SURFACES SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.

LUMINAIRE LOADING FOR DESIGN CALCULATION SHALL BE 50 LBS. IN WEIGHT AND 1.5 SQ. FT. FOR E.P.A..

① CLAMPS SHALL BE EXTRUDED ALUMINUM.

② RACE WAY: 1 3/8" FIELD DRILLED HOLE WITH 1" CHASE NIPPLE AND NUT (OR NEOPRENE GROMMET) PER EACH REQUIRED LUMINAIRE ARM. PROVIDE 1 1/2" HOLE IN CLAMP EXTRUSION TO CONTINUE RACEWAY.

③ STIFFENER

④ GUSSETS REQUIRED.

⑤ CLAMP BOLT ASSEMBLY (BOLT - 1/2"-13 UNC, 2 EACH - FLAT WASHER, LOCK WASHER, NUT) - 4 EACH PER CLAMP.

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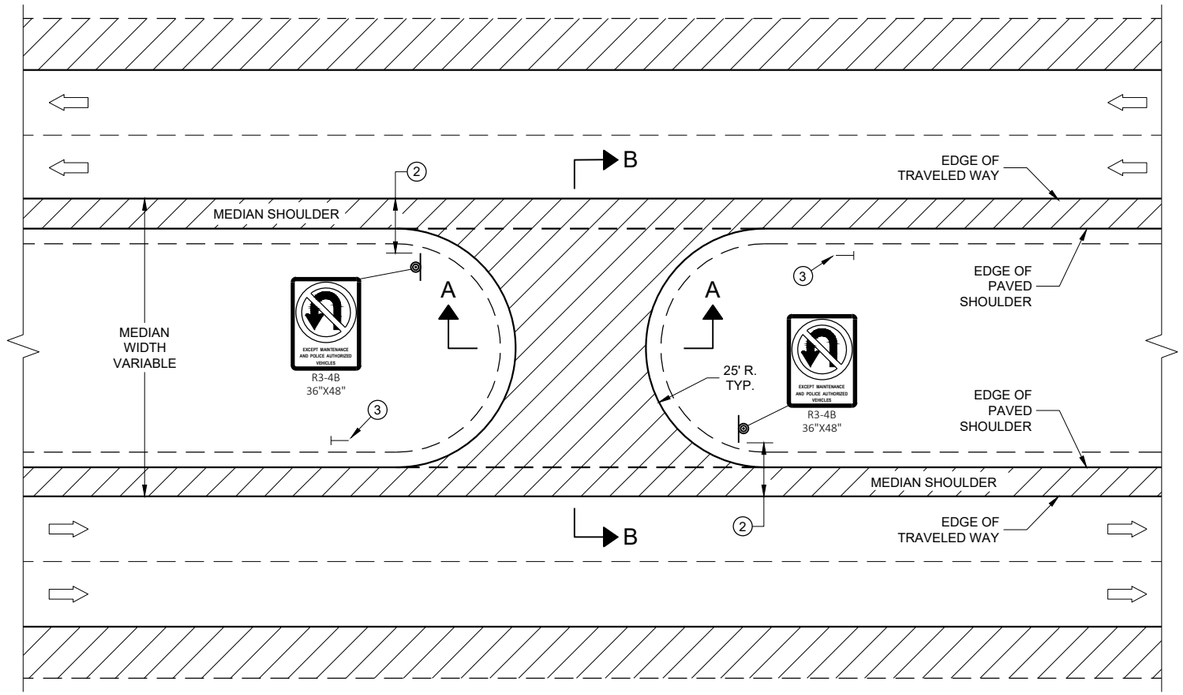
S.D.D. 10 A 18-5a

S.D.D. 10 A 18-5a

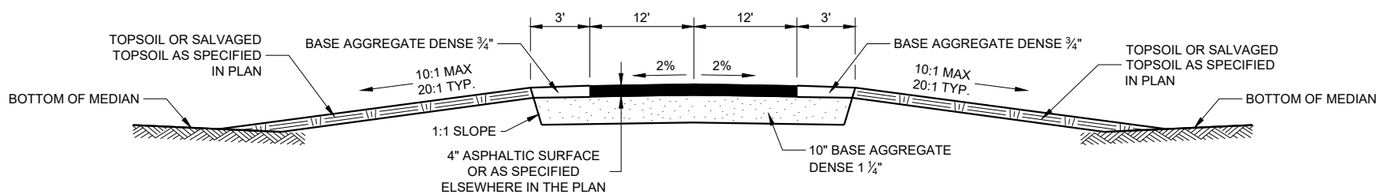
LUMINAIRE ARMS, SINGLE MEMBER 6-INCH CLAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

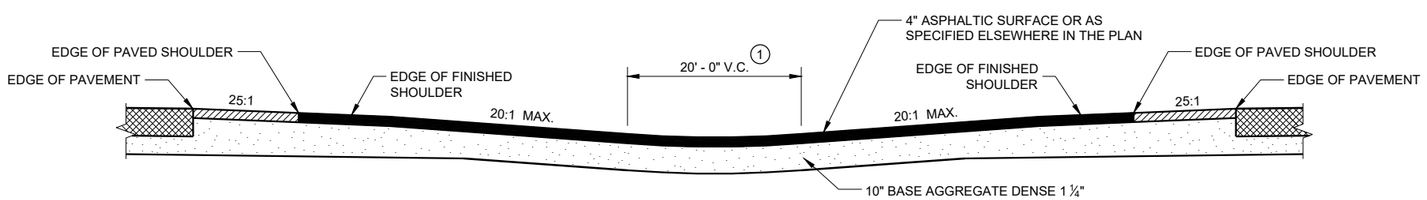
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA



PLAN VIEW



SECTION A-A



SECTION B-B

GENERAL NOTES

1. ADJUST VERTICAL CURVE LOCATION LATERALLY TO MAINTAIN 20:1 MAX.
2. SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.
3. INSTALL DELINEATOR. SEE STANDARD DETAIL DRAWING 15A4.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR
- DIRECTION OF TRAFFIC

MAINTENANCE CROSSOVER FOR FREEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
663
FHWA

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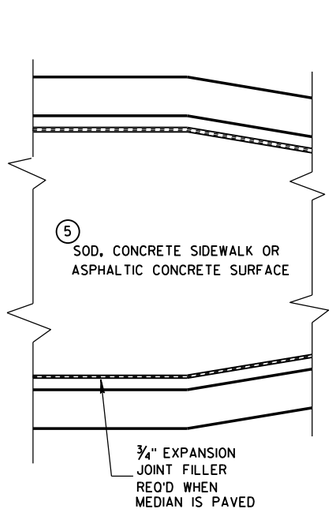
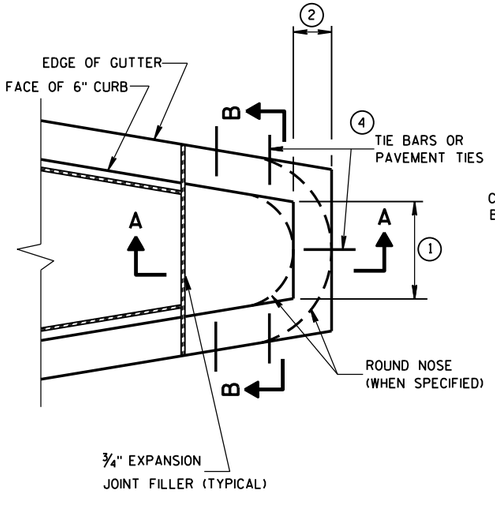
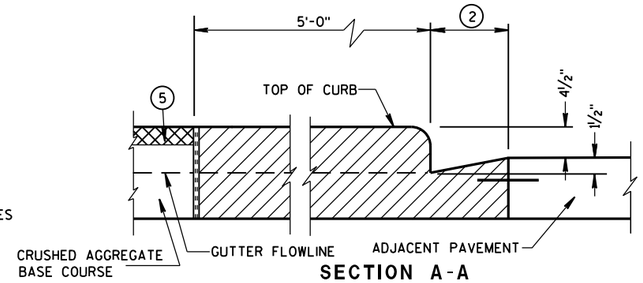
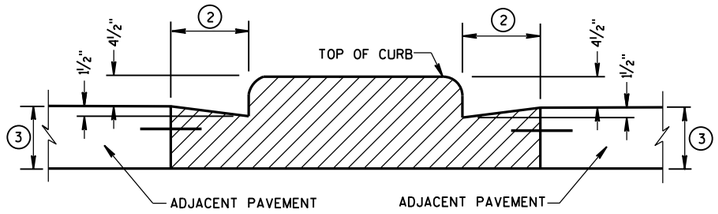
SDD 11A01 - 06







SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

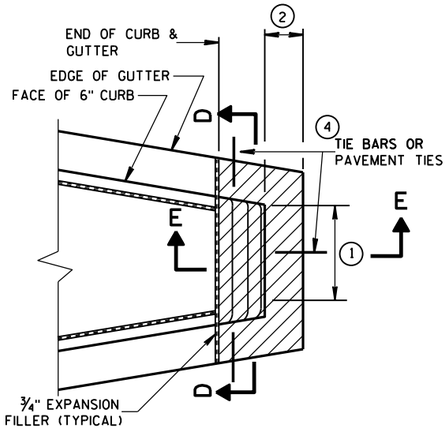
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

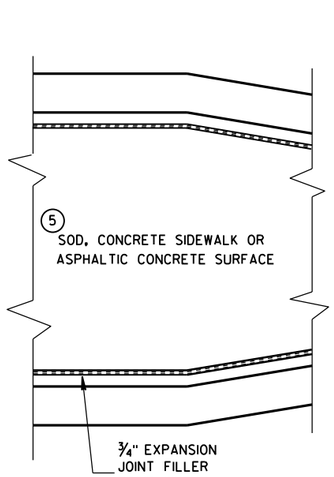
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

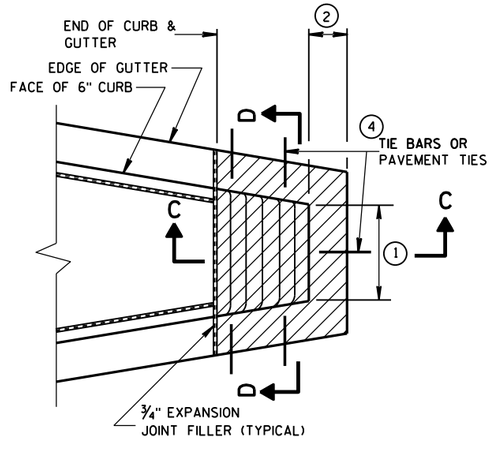
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

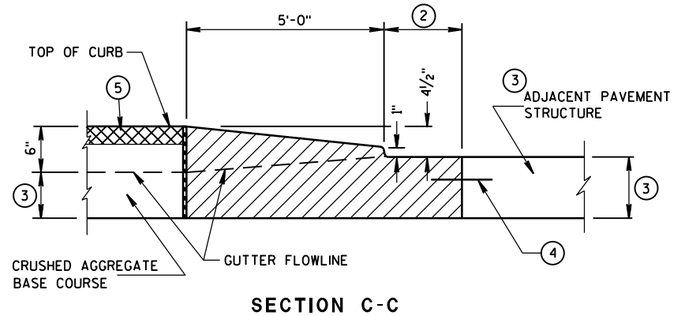
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

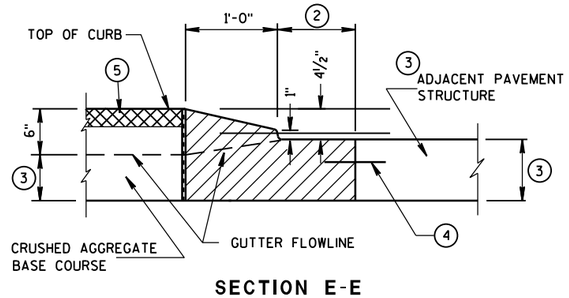








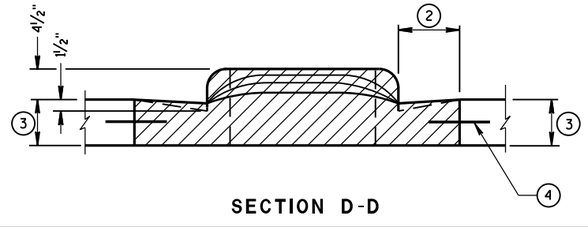
SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER

FHWA

6

S.D.D. 11 B 2-2

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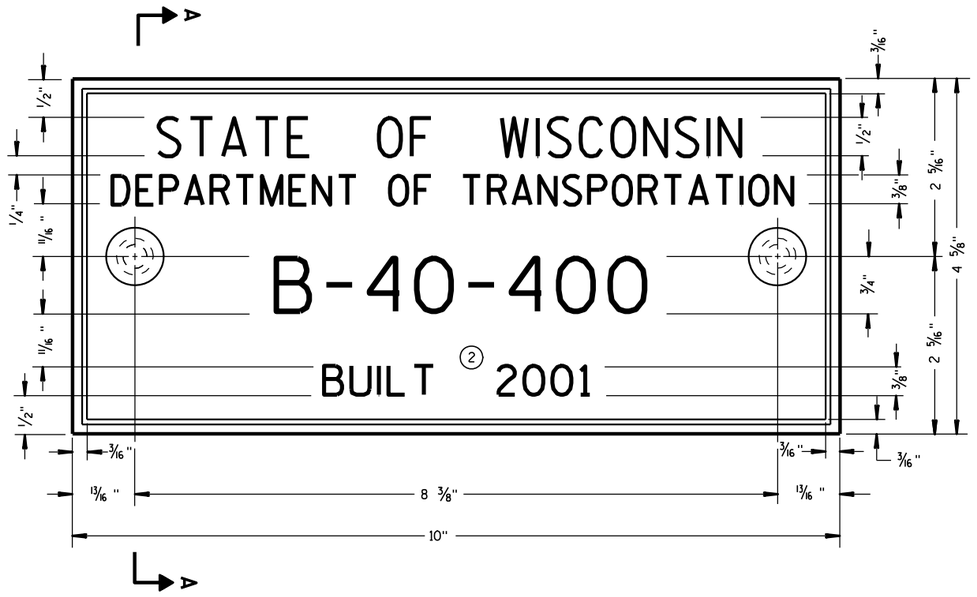
S.D.D. 11 B 2-2



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

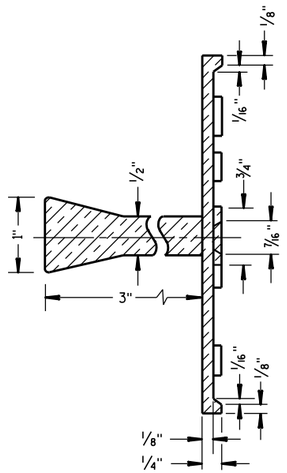
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

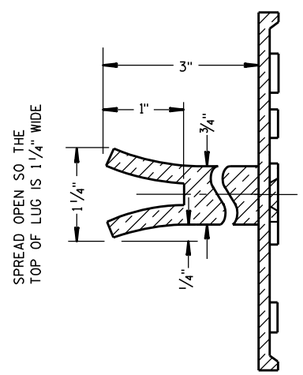
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

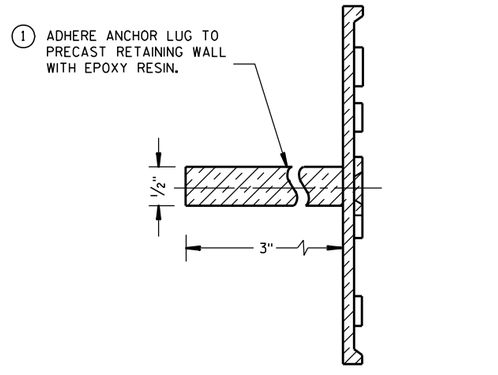
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE

/S/ Scot Beck CHIEF STRUCTURAL DEVELOPMENT ENGINEER

FHWA

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S.D.D. 12 A 3-10

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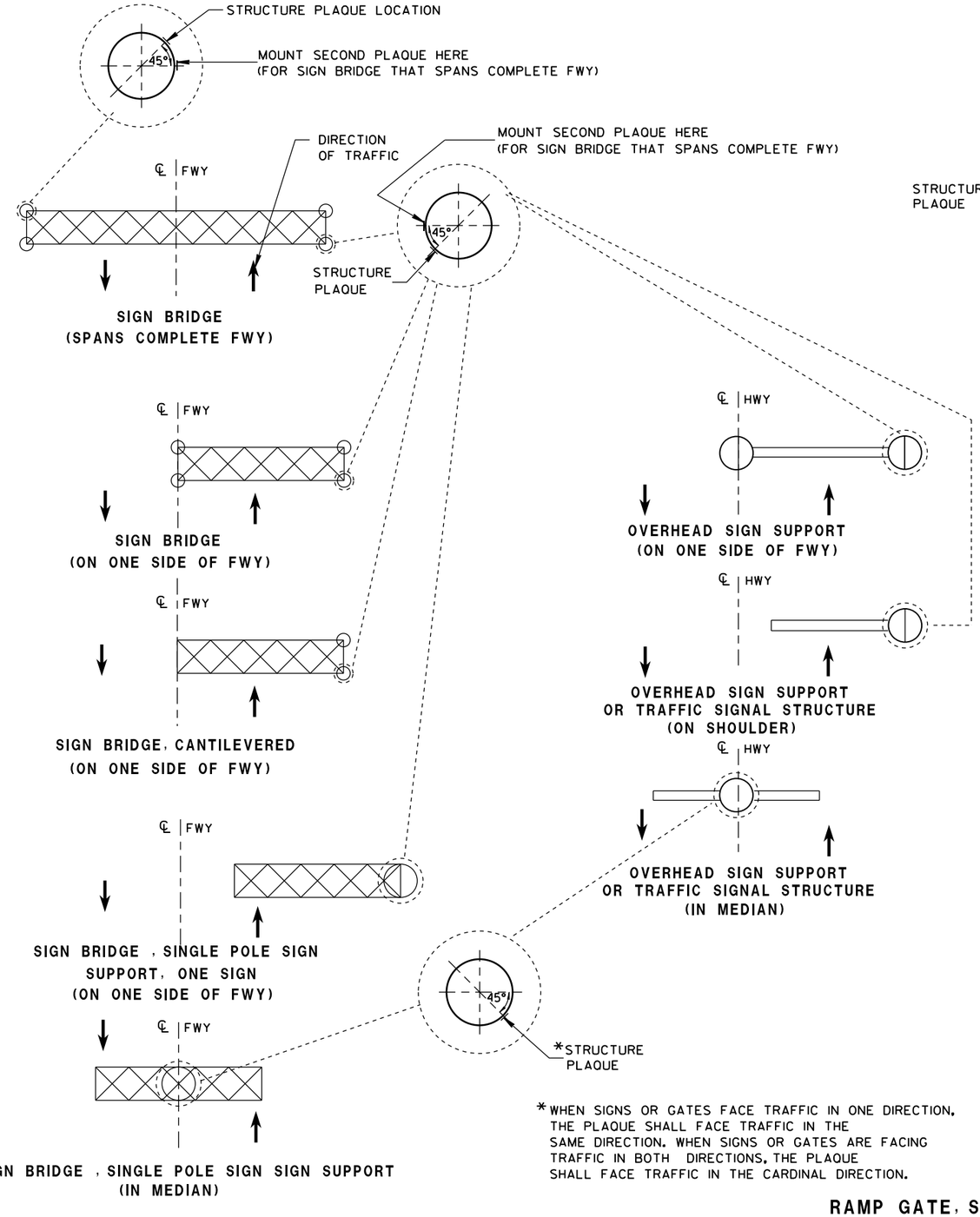
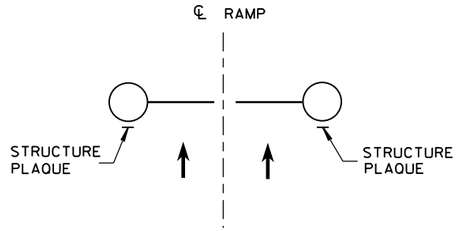
S.D.D. 12 A 3-10

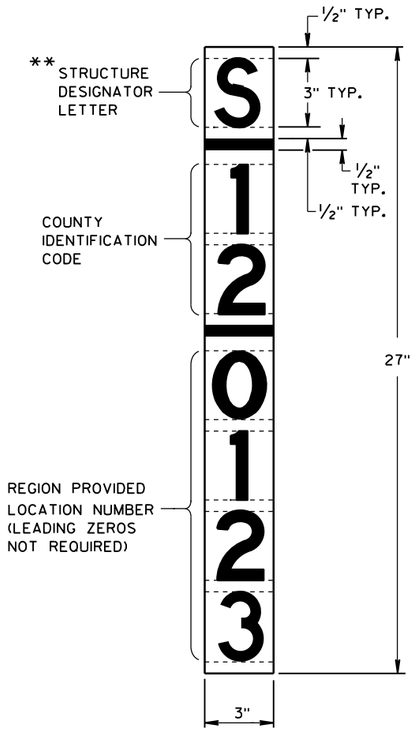


*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



**RAMP GATE
(ACROSS FWY ON-RAMP)**



** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

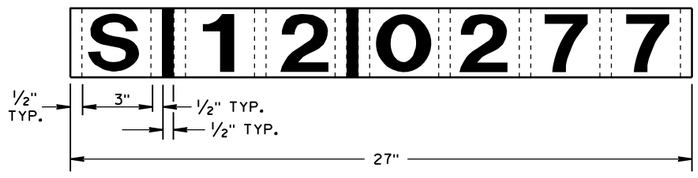
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 12 A 4-3

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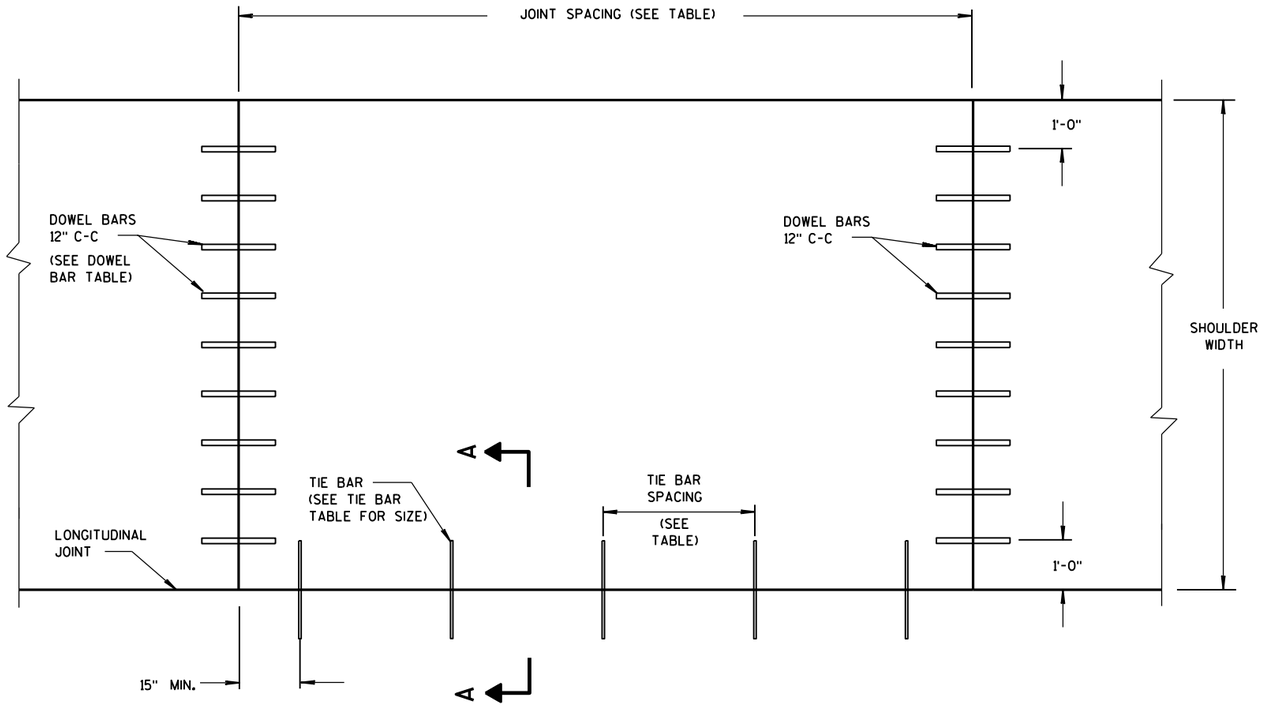
S.D.D. 12 A 4-3



PLAN VIEW

CONCRETE PAVEMENT SHOULDER

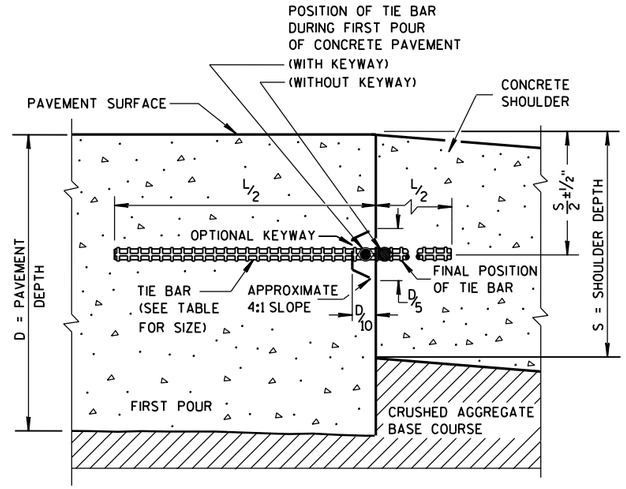
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER***	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

*** FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE PAVEMENT SHOULDERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPEF
FHWA

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S.D.D. 13 A 3-6

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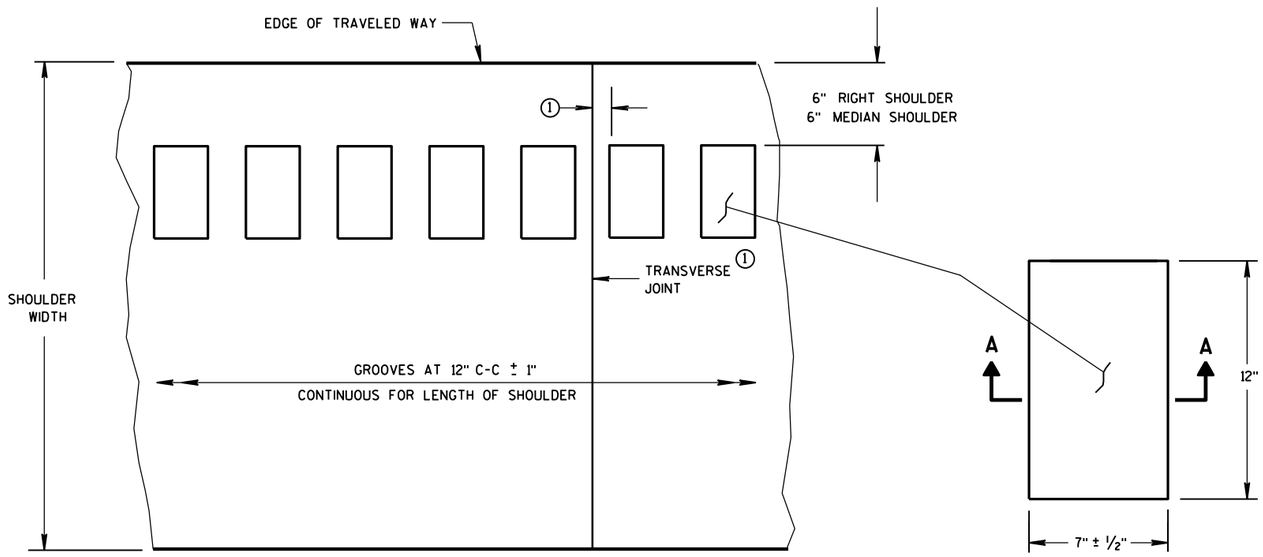
S.D.D. 13 A 3-6



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

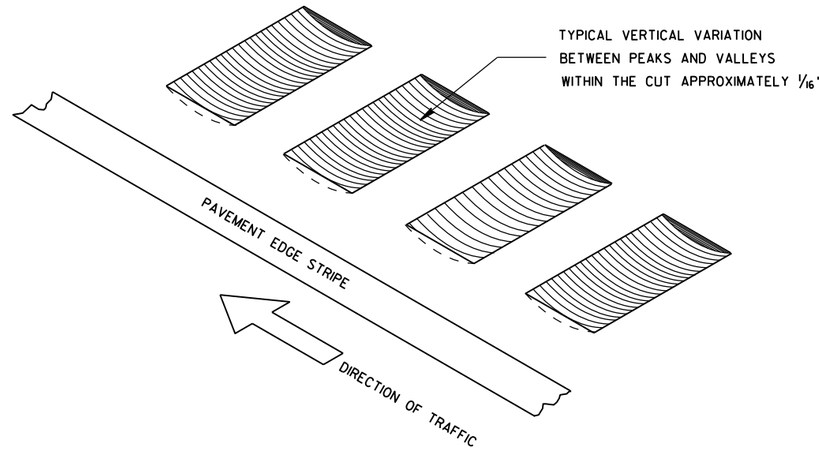
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



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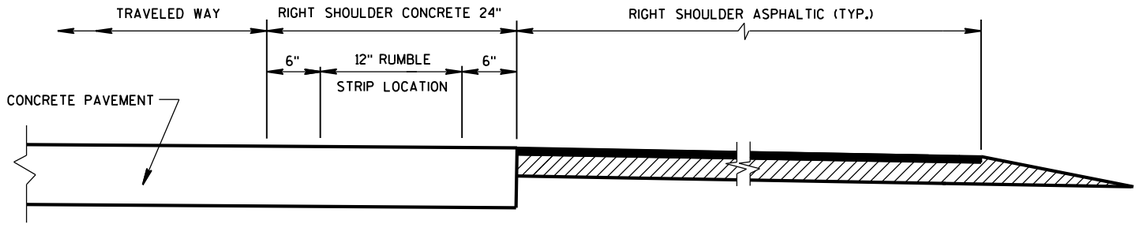
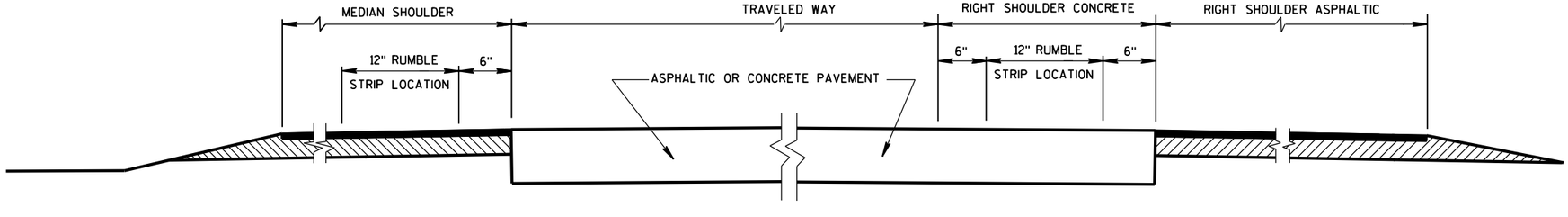


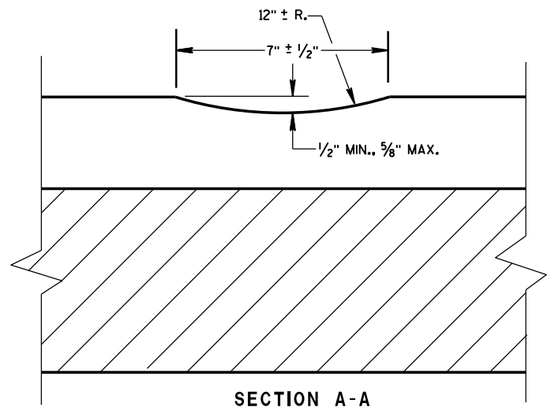
SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 668

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S.D.D. 13 A 5-5a

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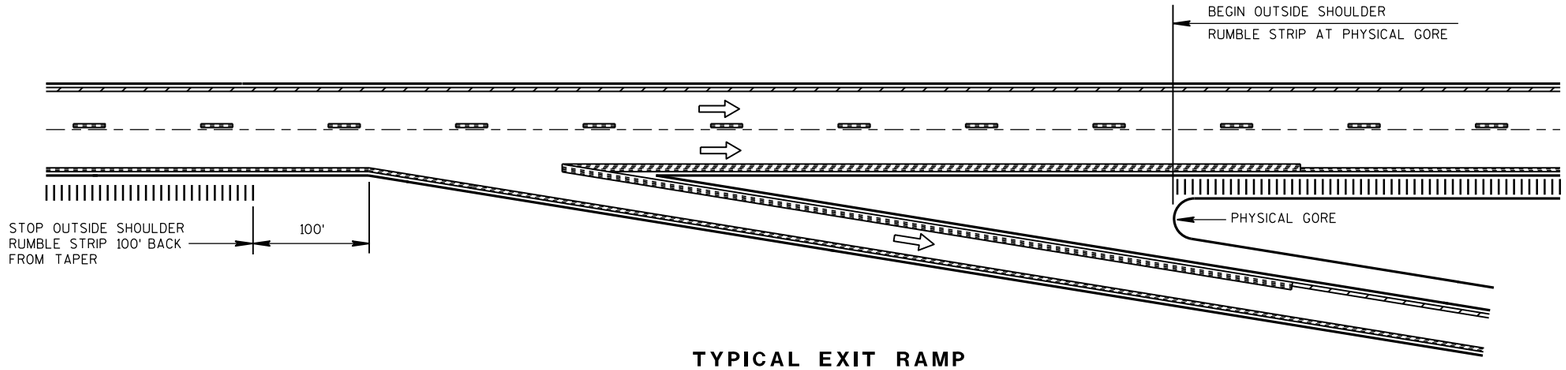
S.D.D. 13 A 5-5a



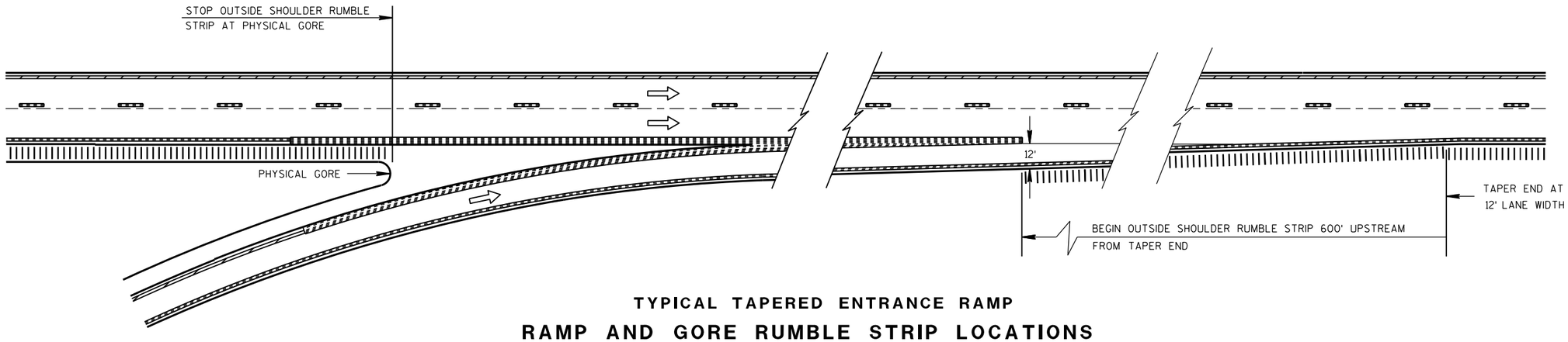
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

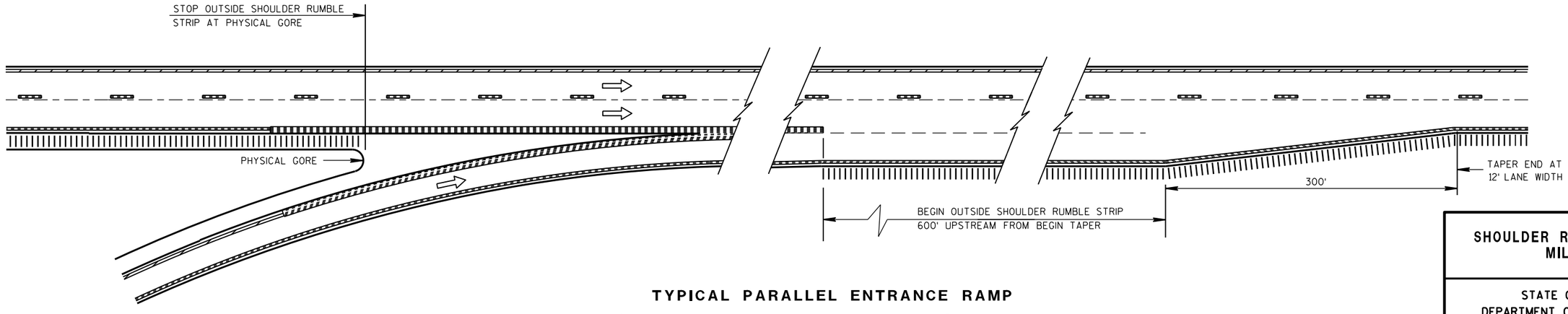
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/17/2012 — DATE
/S/ Jerry H. Zoga — ROADWAY STANDARDS ENGINEER
669
FHWA

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S.D.D. 13 A 5-5b

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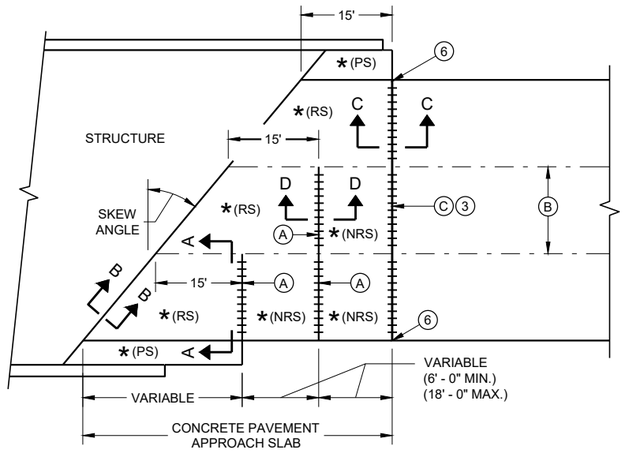
S.D.D. 13 A 5-5b



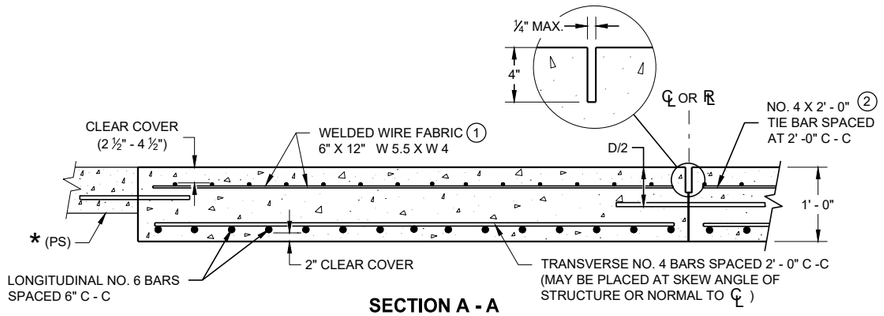
SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)

* (RS) = REINFORCED CONCRETE SLAB

* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

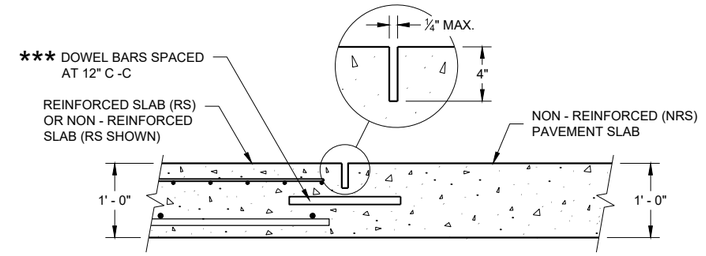
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

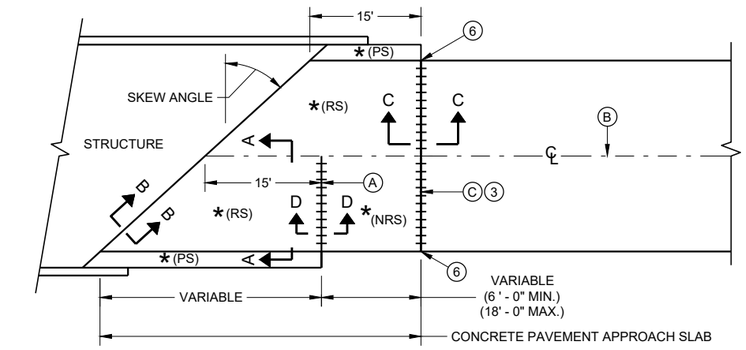
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

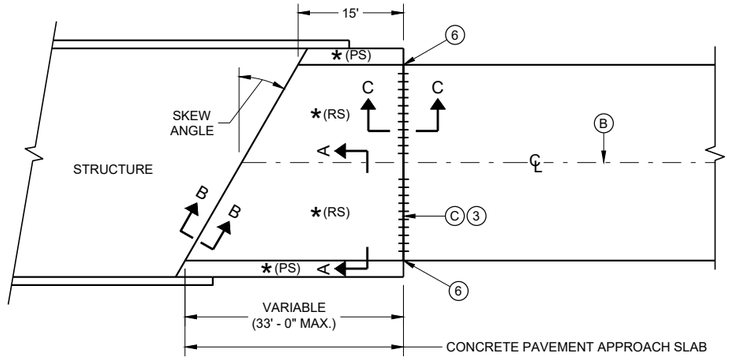
(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT

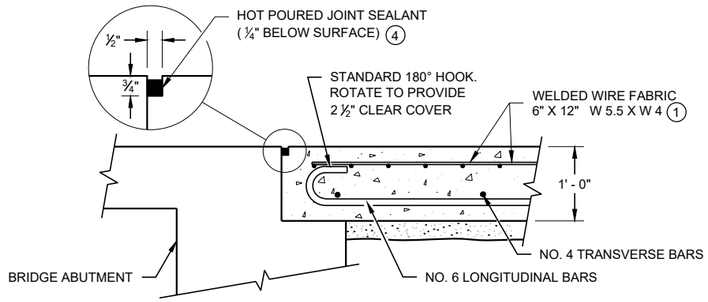


SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')

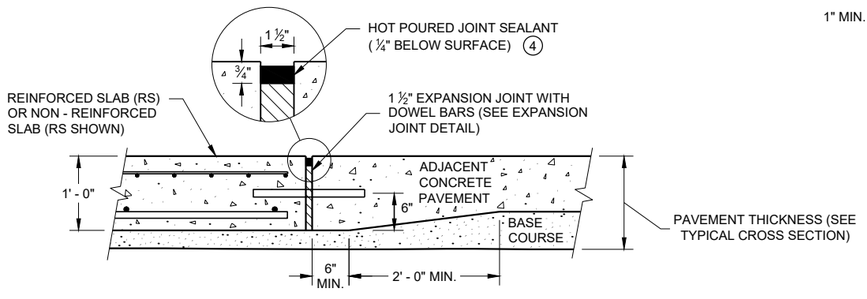


SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

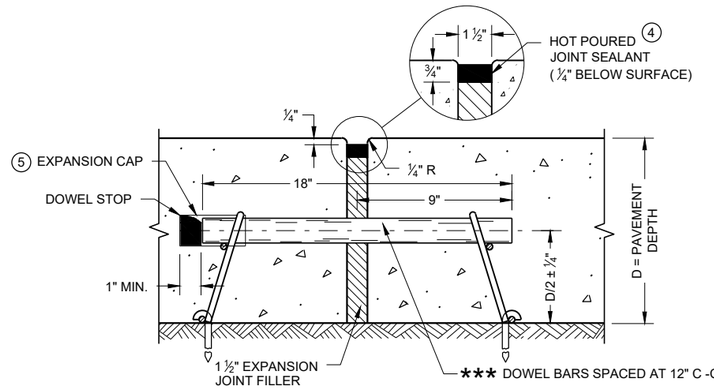
APPROACH SLAB AND ADJACENT PAVEMENT



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVISOR

FHWA

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SDD 13B02 - 09a

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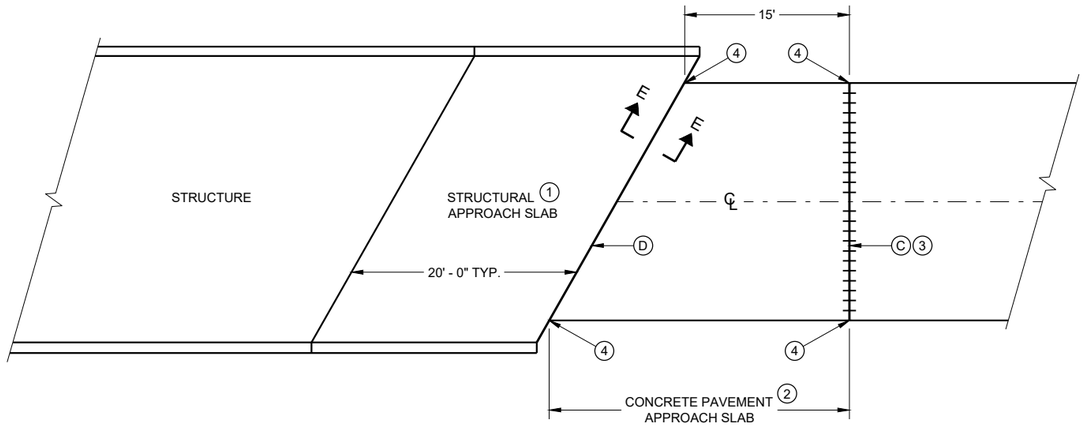
SDD 13B02 - 09a



BRIDGE APPROACHES

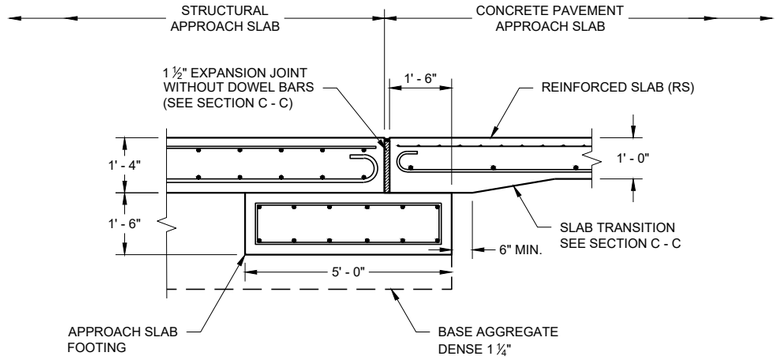
GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

1. SEE BRIDGE PLAN.
2. CONFORM TO SDD 13B02 SHEET A FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS
3. DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
4. EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

C. 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞.

D. 1 ½" EXPANSION JOINT (NO DOWELS)



SECTION E - E
FOOTING DETAIL
STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS
FHWA

671

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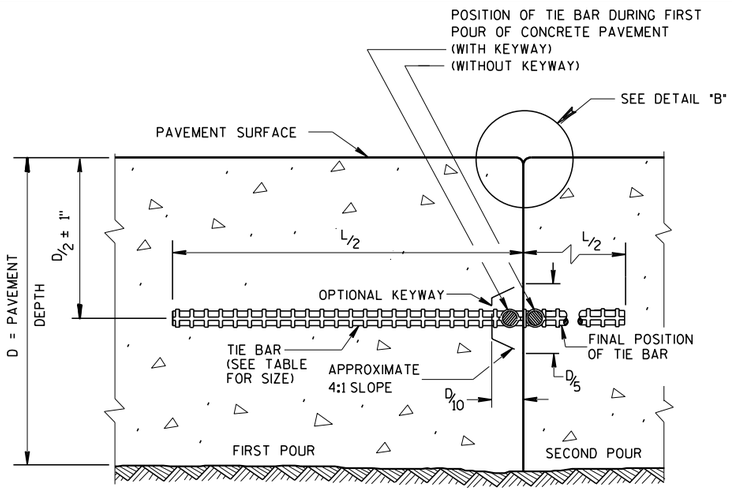
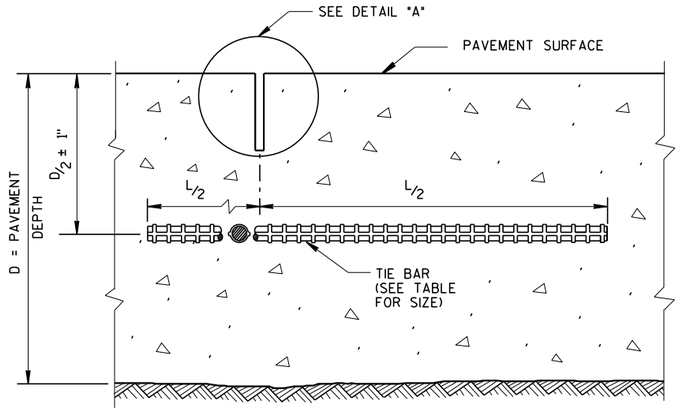
SDD 13B02 - 09b



CONSTRUCTION JOINT



SAWED JOINT

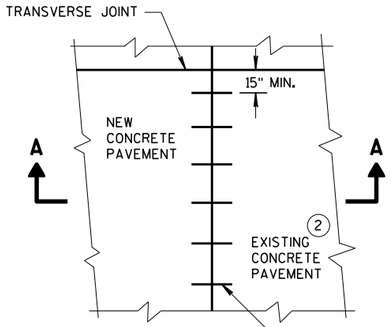
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

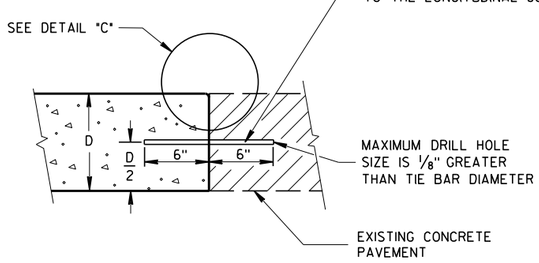
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

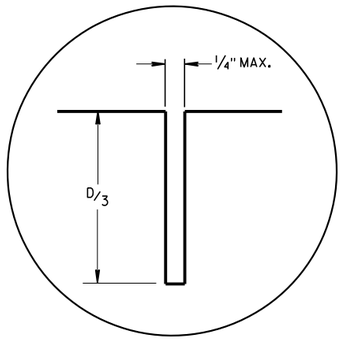


PLAN VIEW

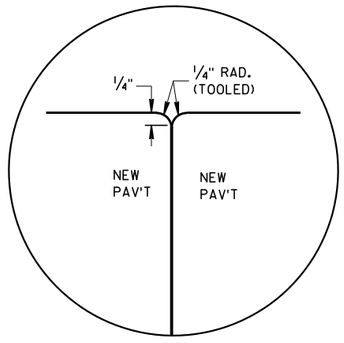


SECTION A-A

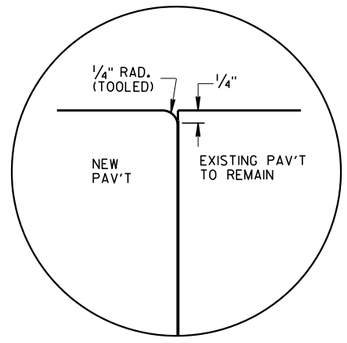
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



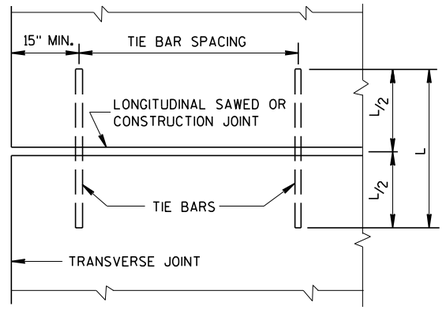
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

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S.D.D. 13 C 1-19

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S.D.D. 13 C 1-19

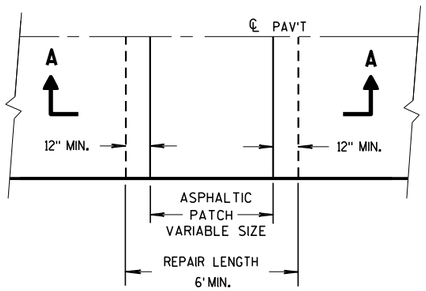
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

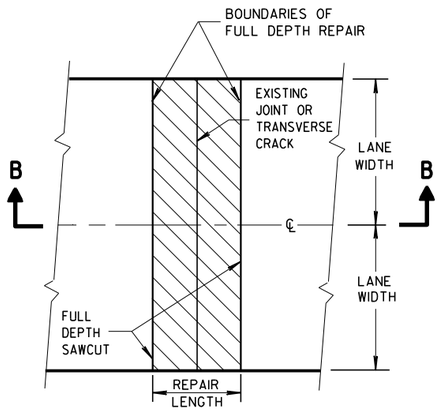
PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

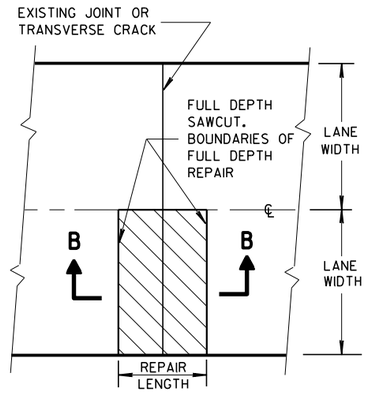
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

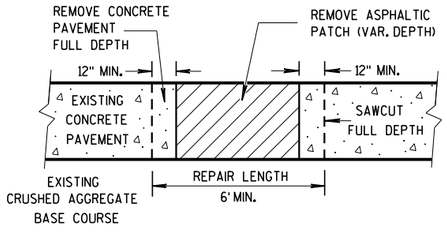


PLAN VIEW
(DOUBLE LANE REPAIR)



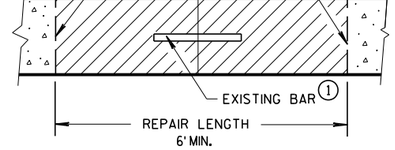
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL



SECTION B-B

CONCRETE REMOVAL

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 13 C 9-15a

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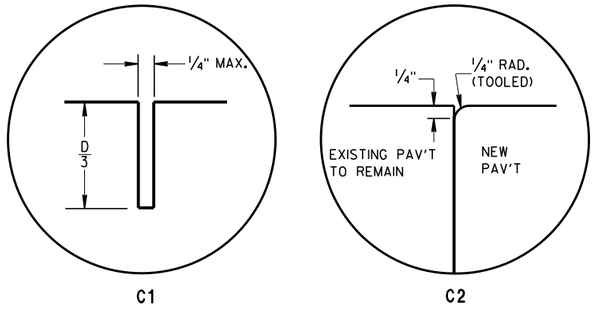
S.D.D. 13 C 9-15a



C1 C2

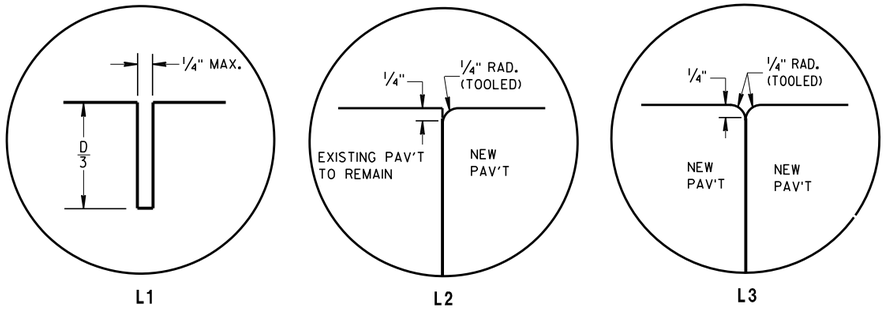
TRANSVERSE JOINTS

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

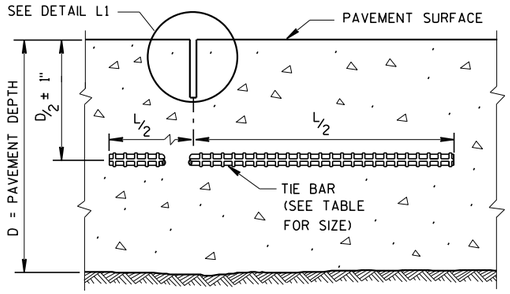
* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



L1 L2 L3

LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT

GENERAL NOTES

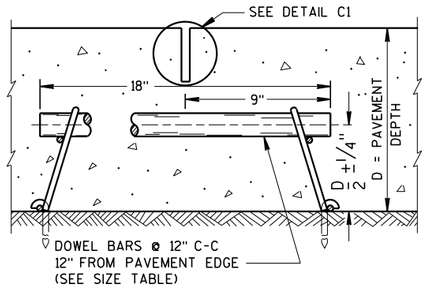
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

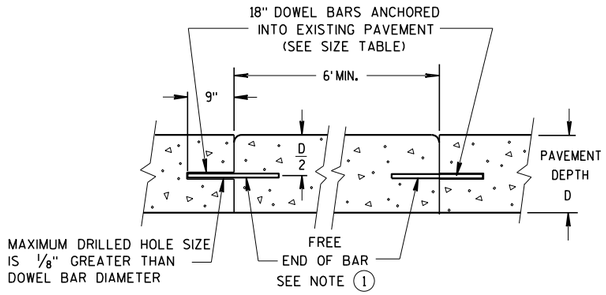
FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

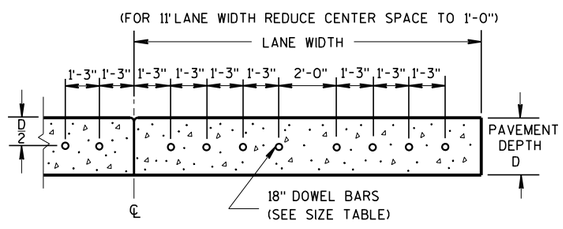


SECTION F-F

CONTRACTION JOINT



SECTION D-D

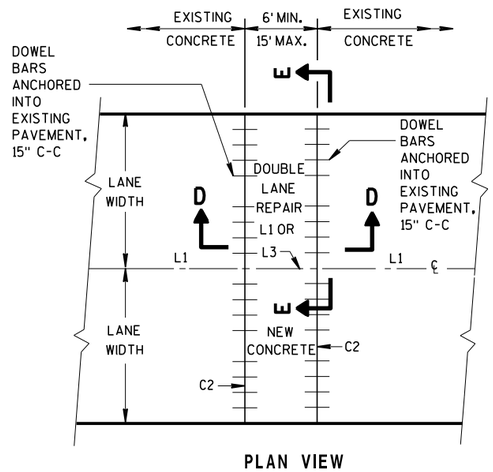


SECTION E-E

DRILLED DOWEL BAR CONSTRUCTION JOINT

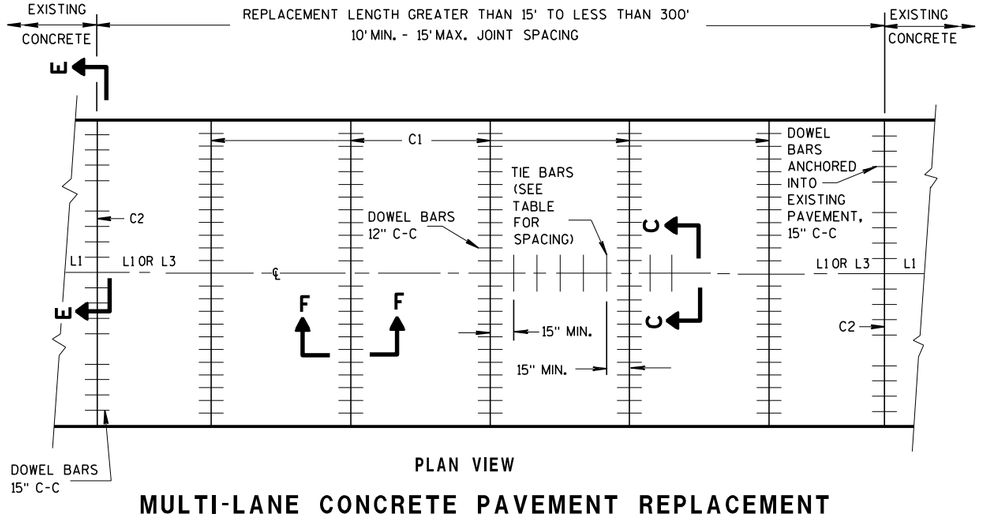
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DRILLED DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6", 6 1/2"	NONE	NONE	12'
7", 7 1/2"	1"	1"	14'
8", 8 1/2"	1 1/4"	1 1/4"	15'
9", 9 1/2"	1 1/4"	1 1/4"	15'
10" & ABOVE	1 1/2"	1 1/4"	15'



PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

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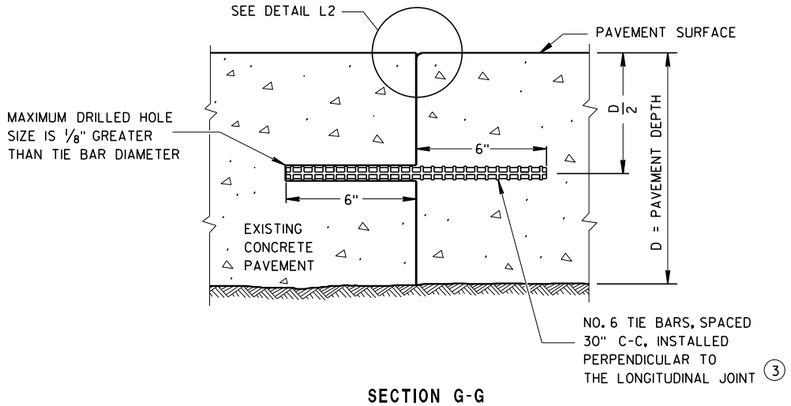
S.D.D. 13 C 9-15b



SECTION G-G

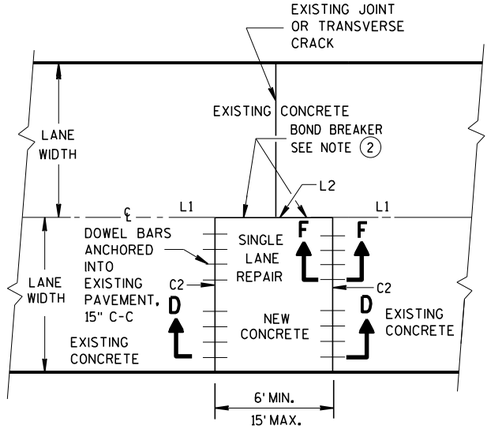
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

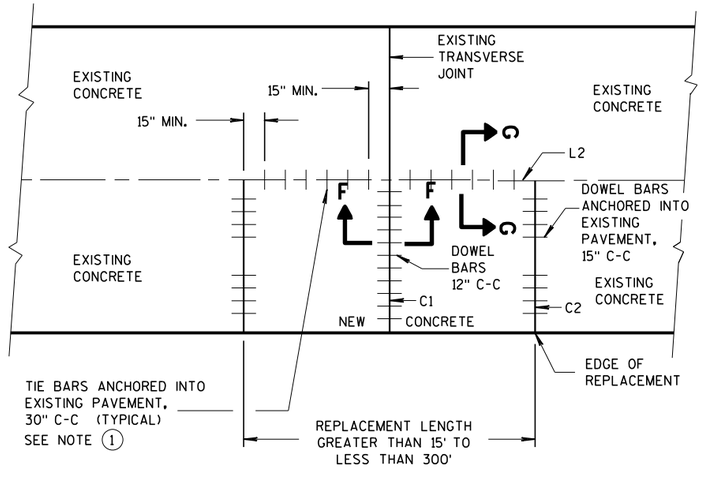
(2) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

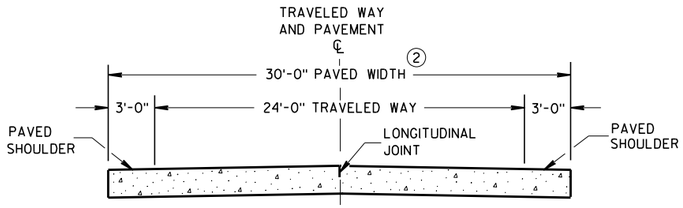
SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

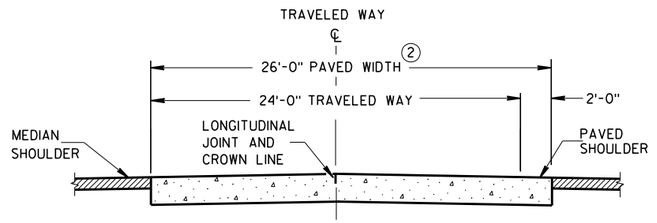
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Ken... — PAVEMENT SUPE...
FHWA

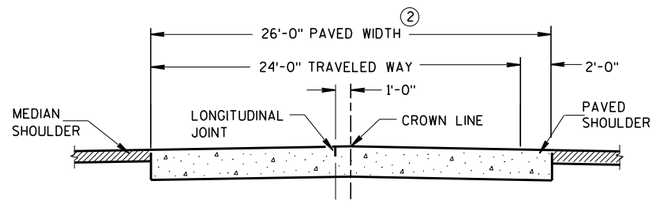
6
S.D.D. 13 C 9-15c



SECTION A-A
TWO-LANE TWO-WAY HIGHWAY (1)



SECTION B-B



ALTERNATIVE SECTION B-B
(1)
DIVIDED HIGHWAY

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

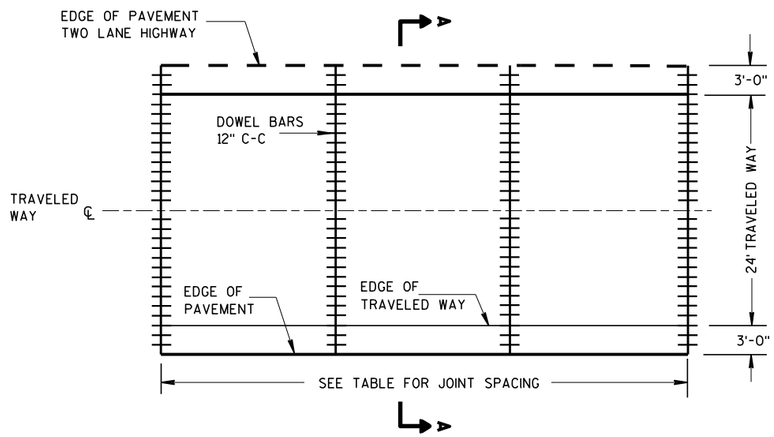
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

(1) REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

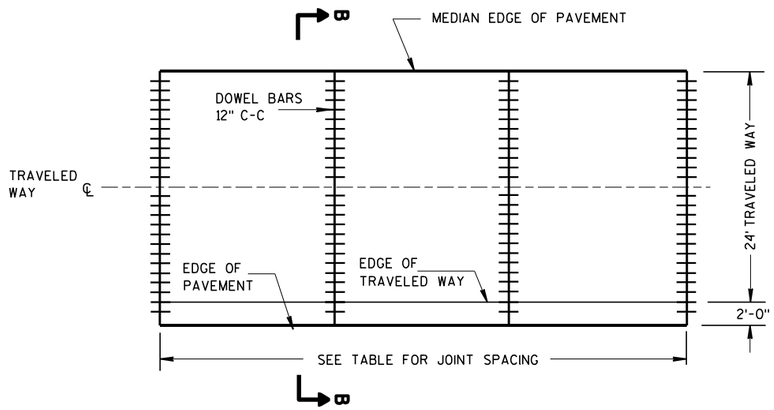
(2) MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



CONTRACTION JOINT LAYOUT
FOR TWO-LANE TWO-WAY HIGHWAY



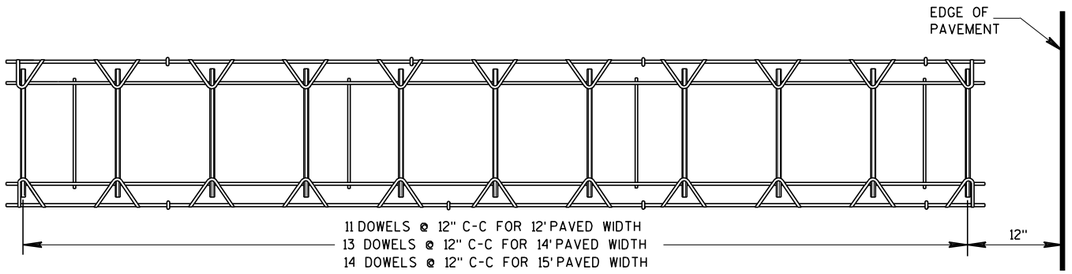
CONTRACTION JOINT LAYOUT
FOR DIVIDED HIGHWAY

RURAL DOWELED CONCRETE PAVEMENT

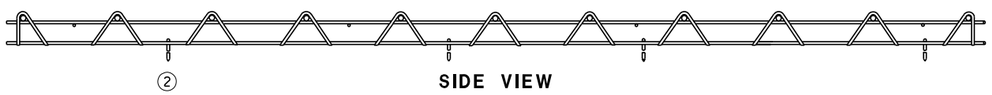
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 13 C 11-12a



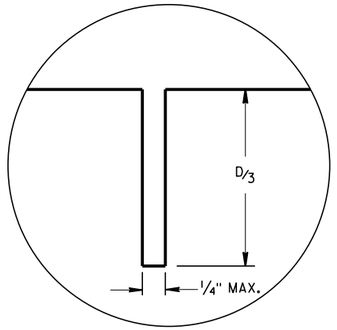
PLAN VIEW



SIDE VIEW

(NORMAL TO CENTERLINE)

CONTRACTION JOINT DOWEL ASSEMBLY ①



JOINT DETAIL

GENERAL NOTES

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

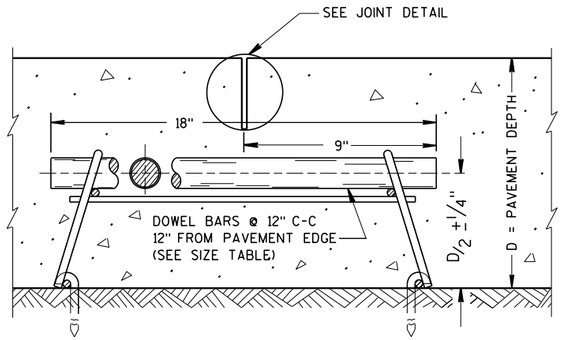
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

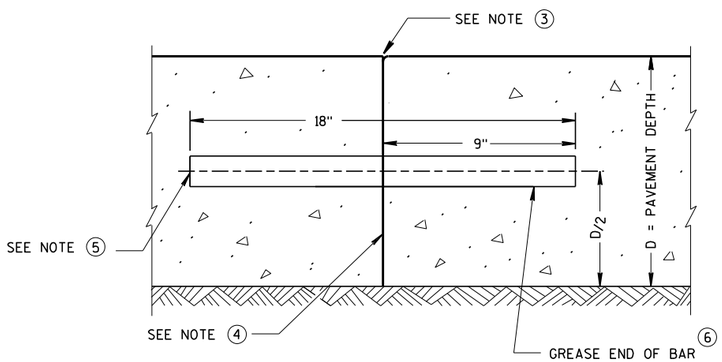
⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

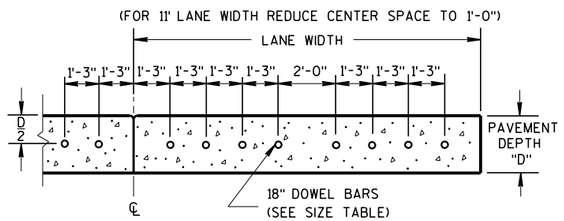
⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



DOWELED CONTRACTION JOINT



TRANSVERSE CONSTRUCTION JOINT



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUP
FHWA

677

6

S.D.D. 13 C 11-12b

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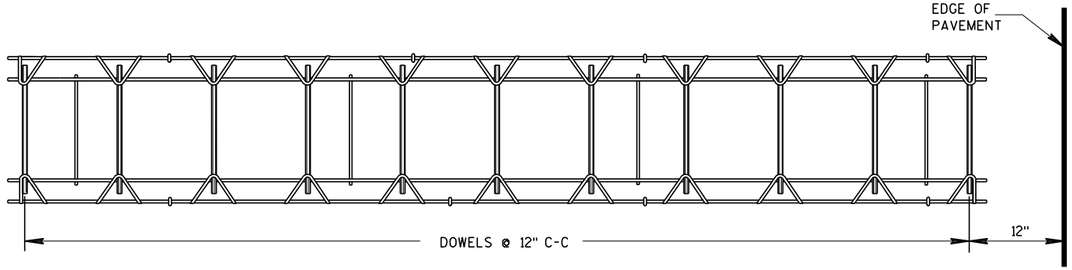
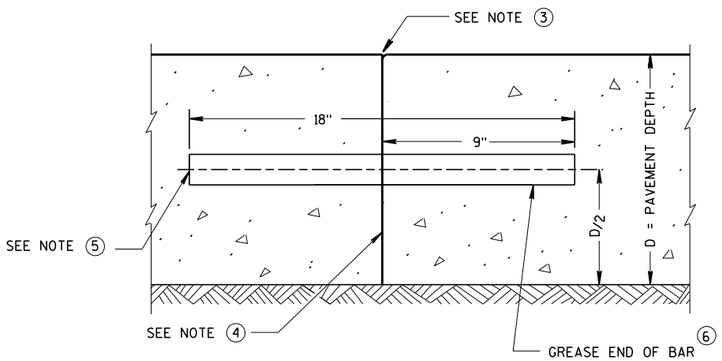
S.D.D. 13 C 11-12b



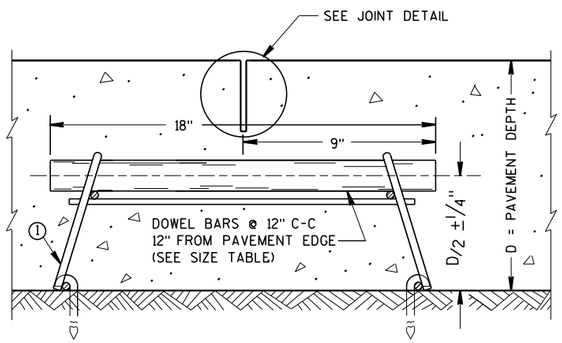
PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



TRANSVERSE CONSTRUCTION JOINT



DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
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9", 9 ½"	1 ¼"	15'
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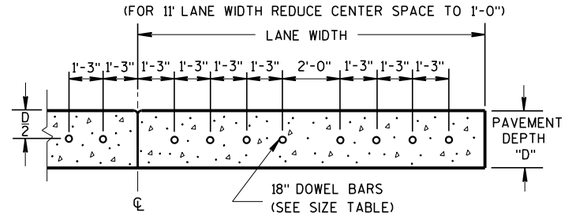
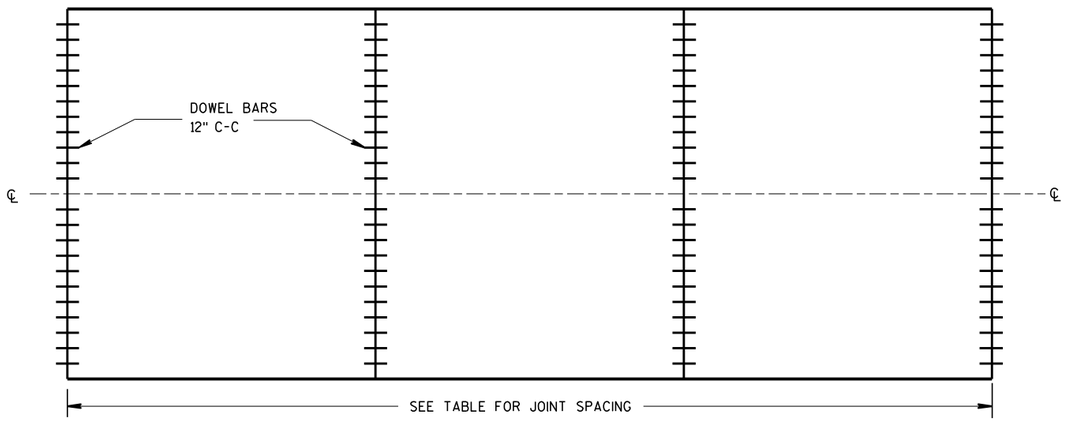


DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

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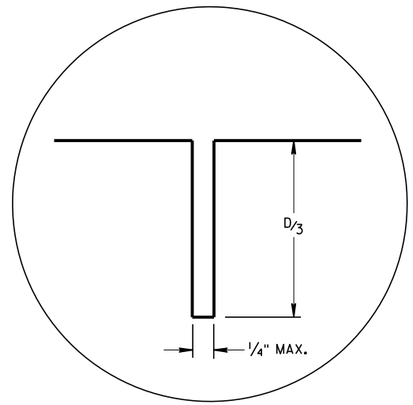
⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUP

FHWA

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S.D.D. 13 C 13-9

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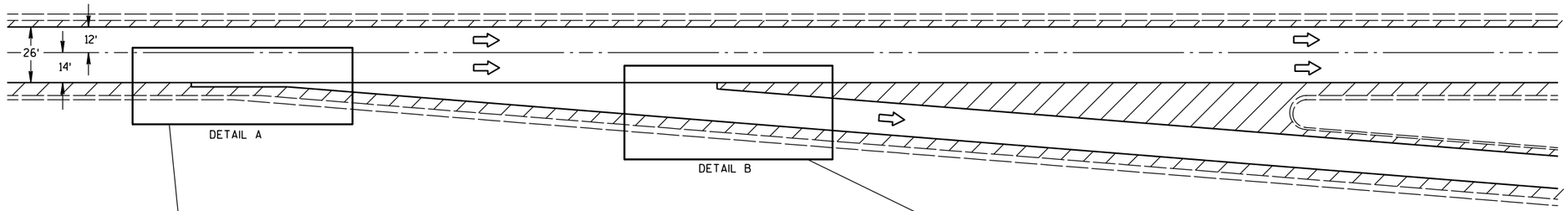
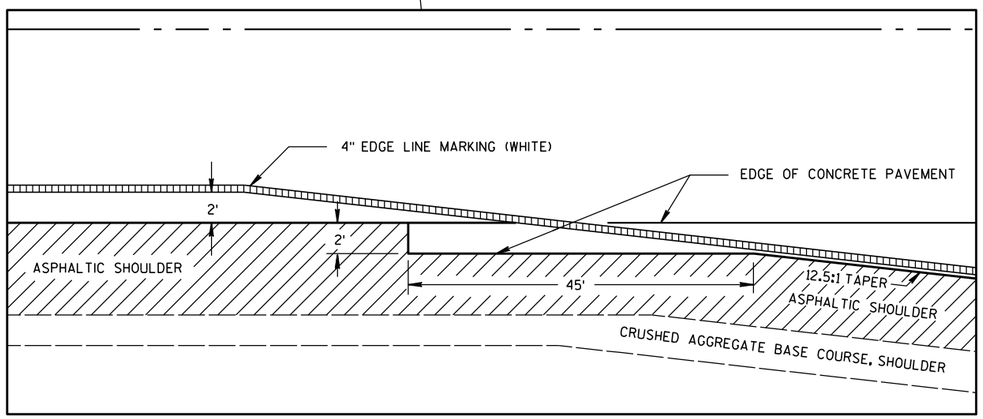
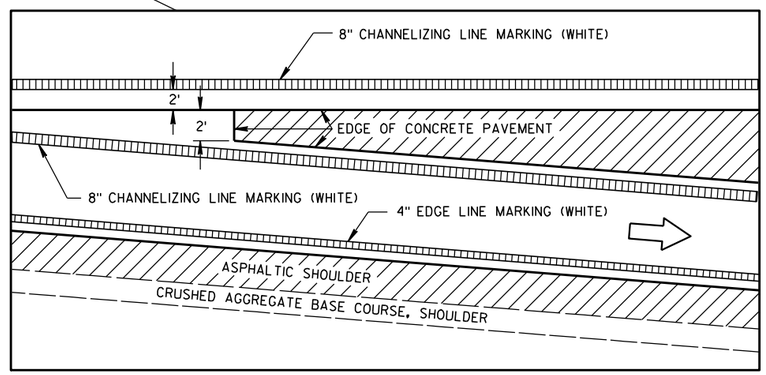
S.D.D. 13 C 13-9



EXIT RAMP DETAIL



DETAIL A



DETAIL B

CONCRETE JOINT PAVING DETAILS

GENERAL NOTES

PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

SEE SDD 13 A 4-4c OR SDD 13 A 5-1b FOR RAMP AND GORE RUMBLE STRIP LOCATION.

CONCRETE JOINT DETAIL FOR EXIT RAMP TERMINI

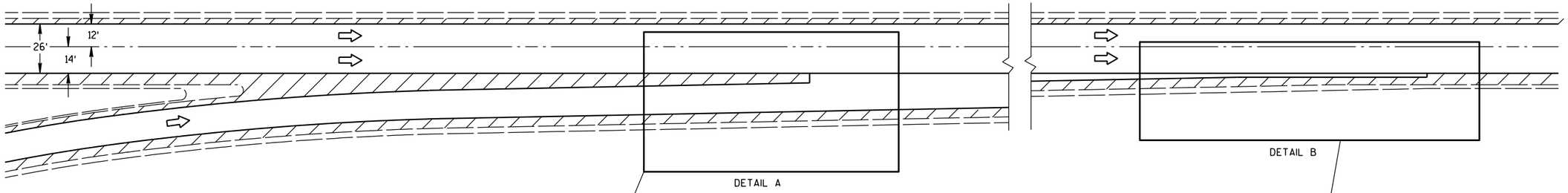
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

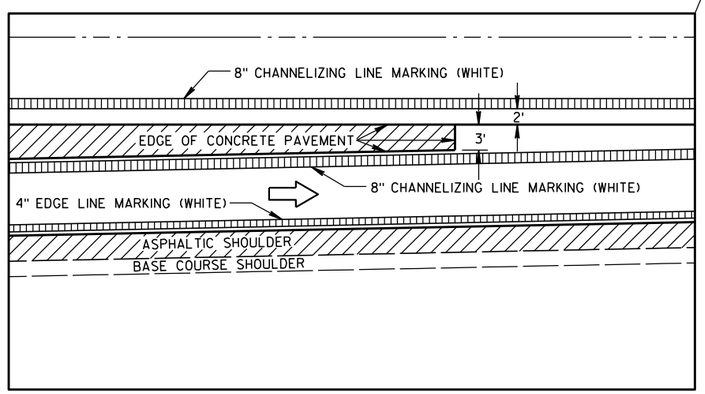
S.D.D. 13 C 17-1a

6

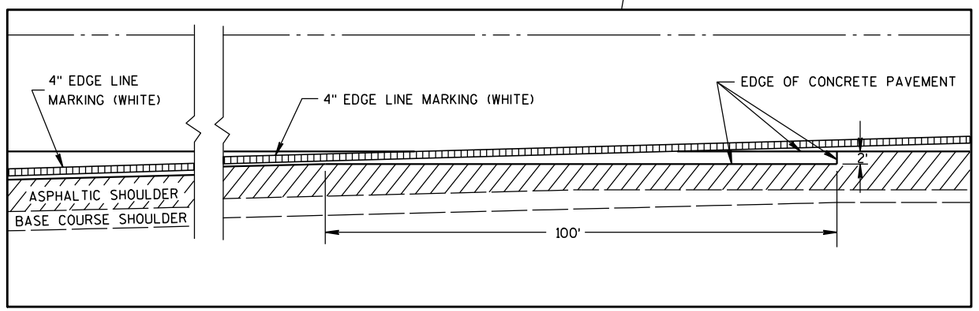
S.D.D. 13 C 17-1a



ENTRANCE RAMP DETAIL



DETAIL A



DETAIL B

CONCRETE JOINT PAVING DETAILS

GENERAL NOTES

PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

SEE SDD 13 A 4-4c OR SDD 13 A 5-1b FOR RAMP AND GORE RUMBLE STRIP LOCATION.

CONCRETE JOINT DETAIL FOR ENTRANCE RAMP TERMINI

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

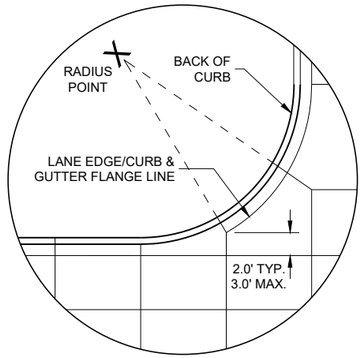
5/27/98
DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

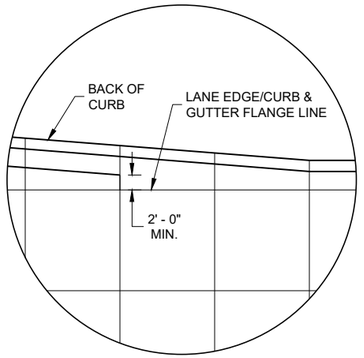
FHWA

6

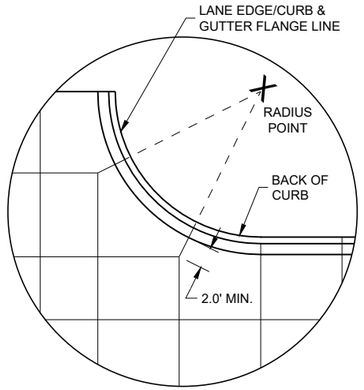
S.D.D. 13 C 17-1b



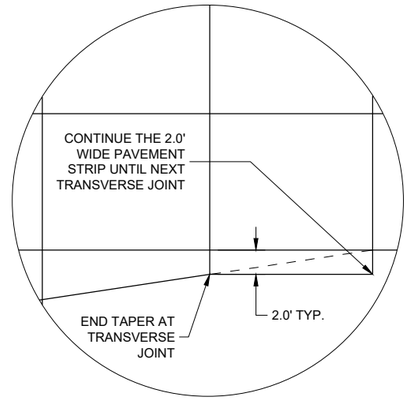
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

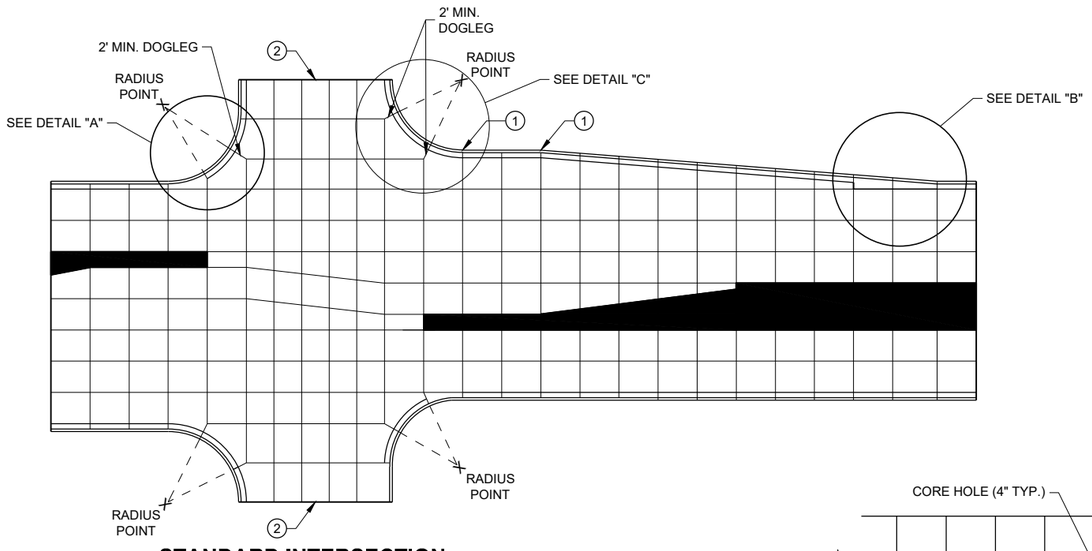
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

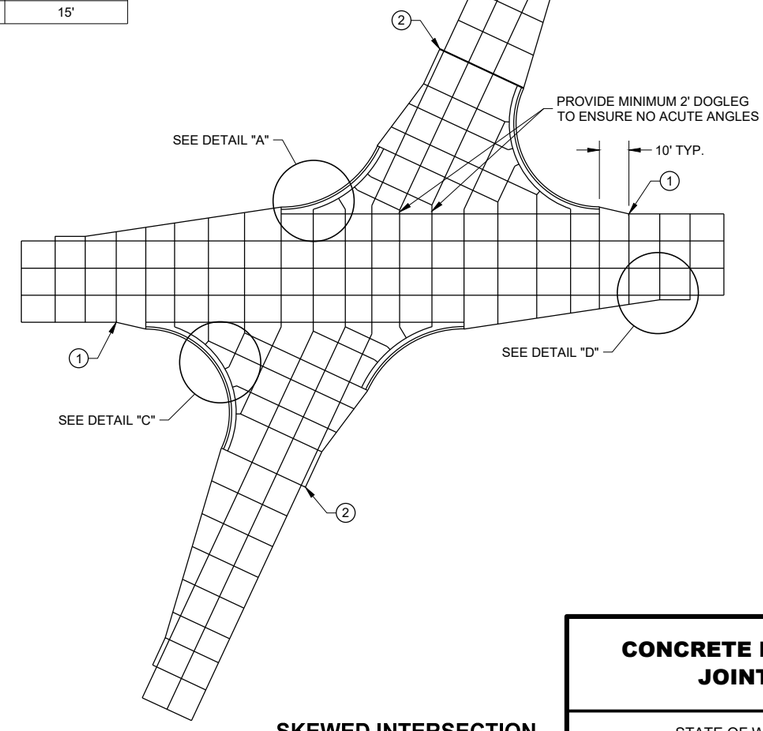
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



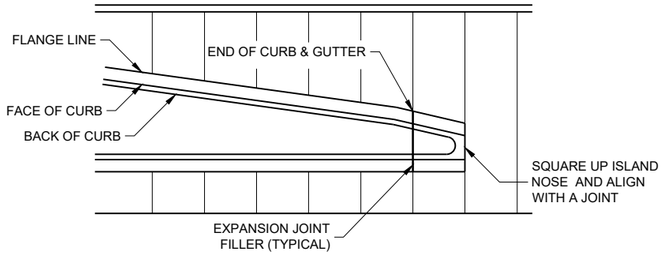
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

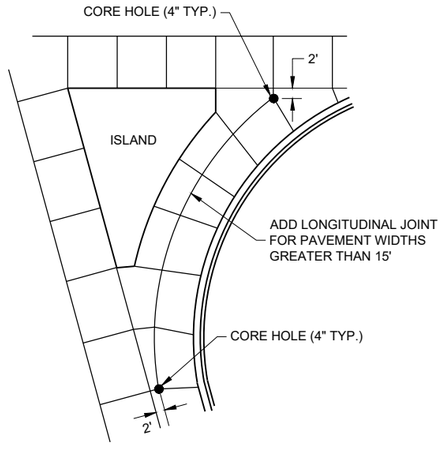
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07a

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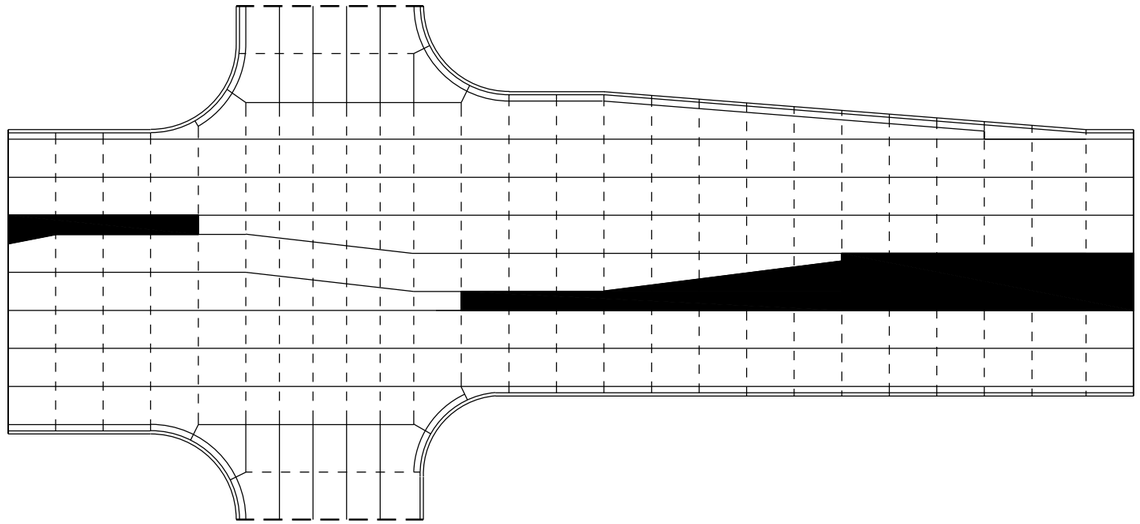
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

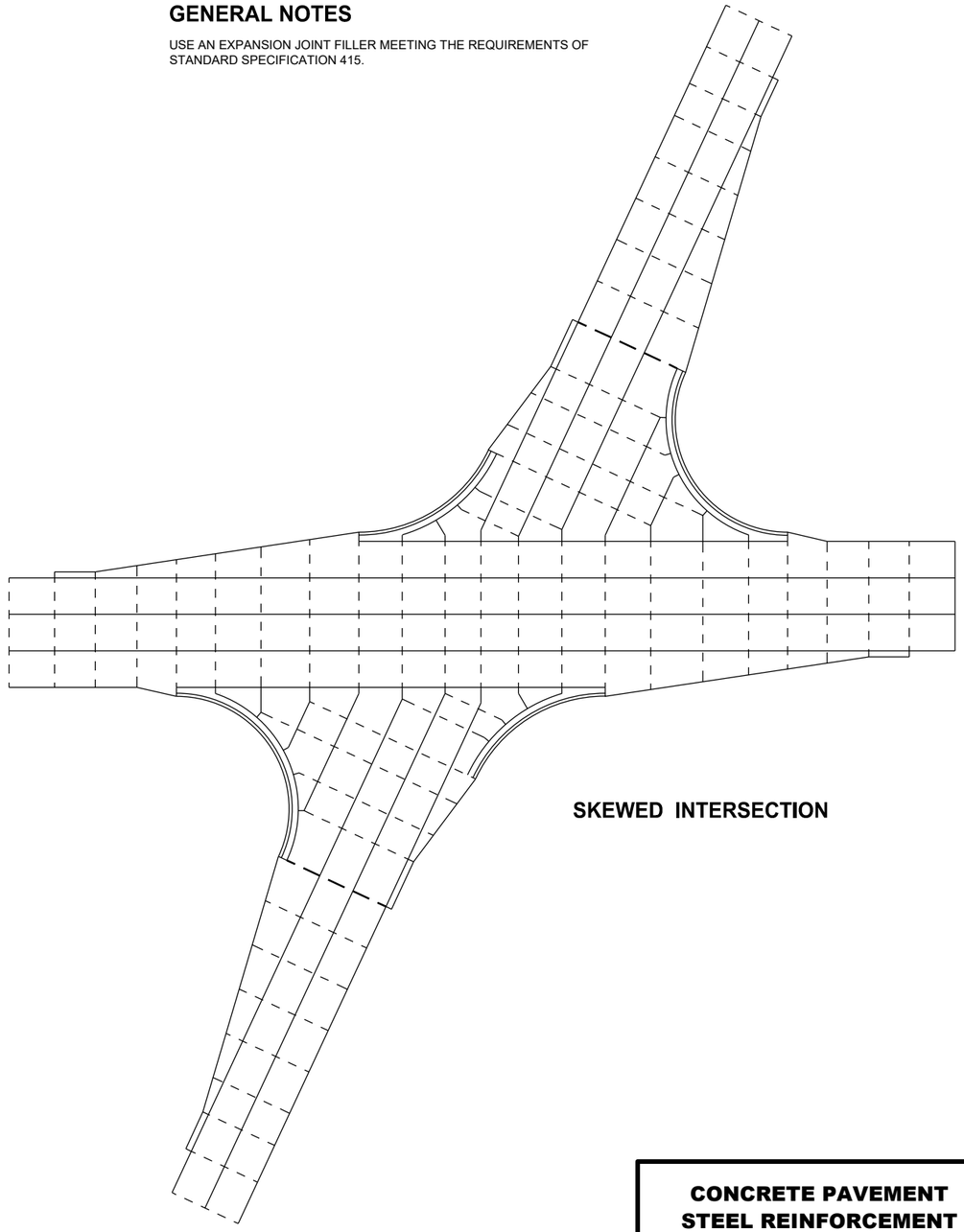
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

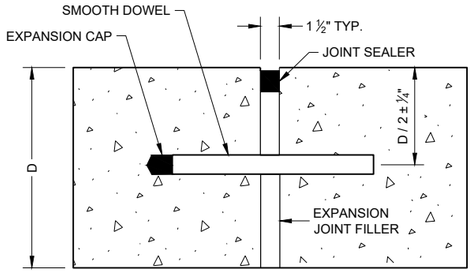
SDD 13C18 - 07b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

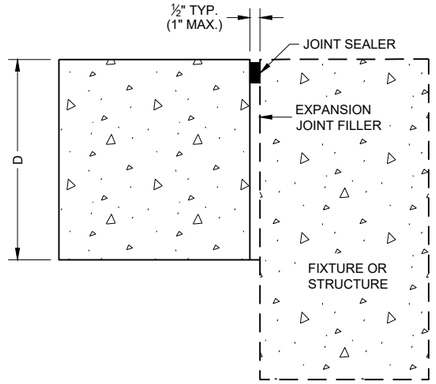
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

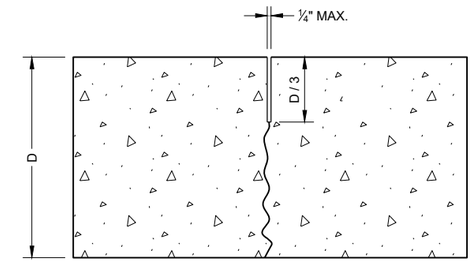
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

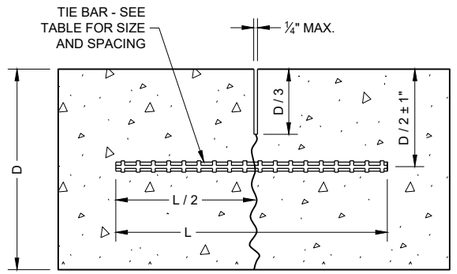
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

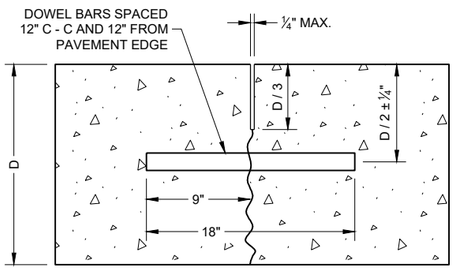
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

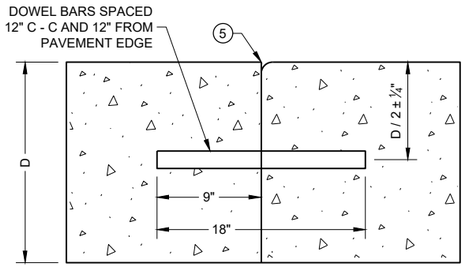


TIED LONGITUDINAL

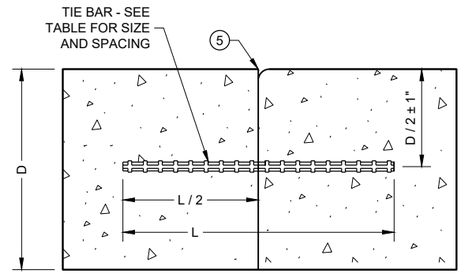


DOWELED TRANSVERSE

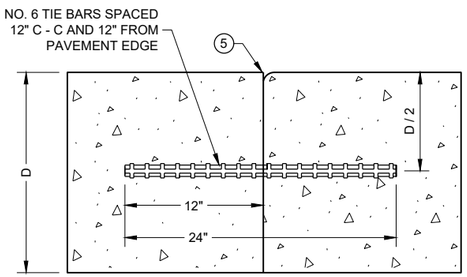
CONTRACTION JOINTS (2)



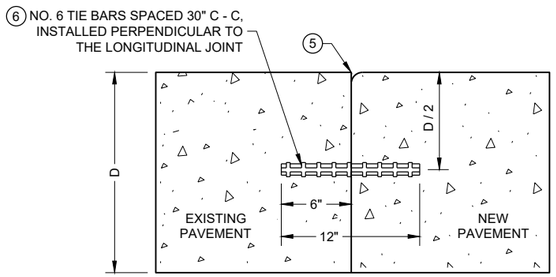
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

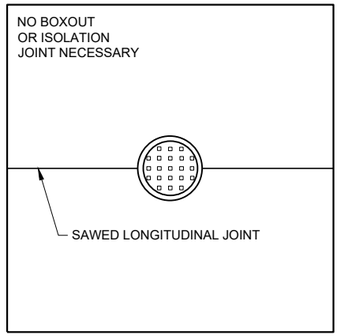
CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

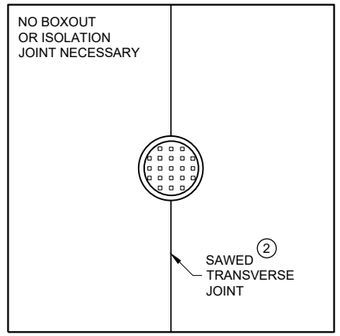
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

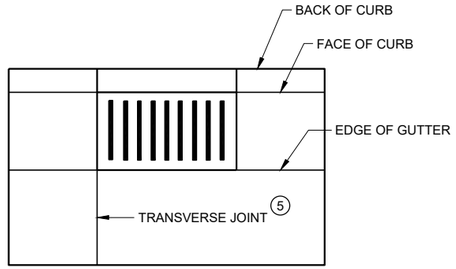
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



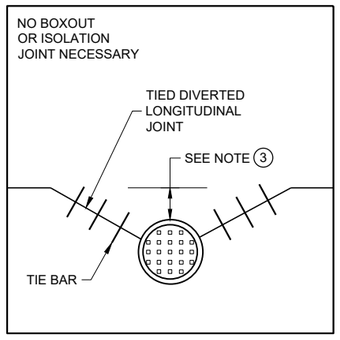
MANHOLE WITH TRANSVERSE JOINT



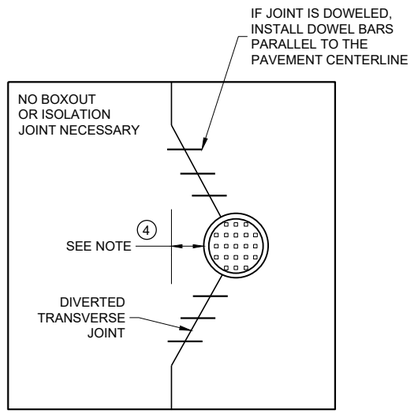
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

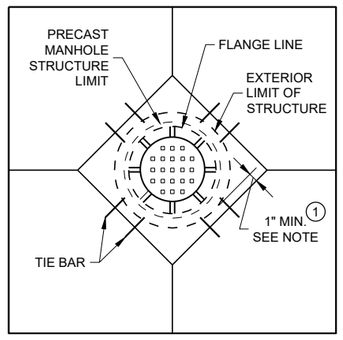
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

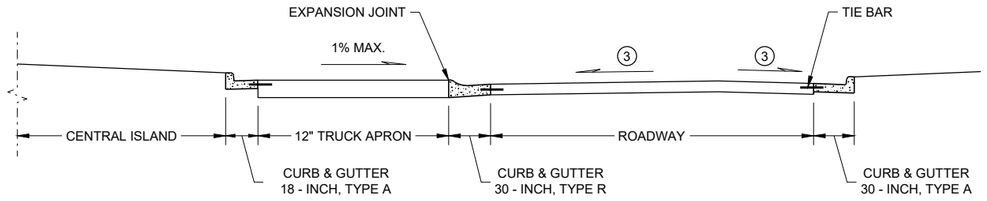
APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR

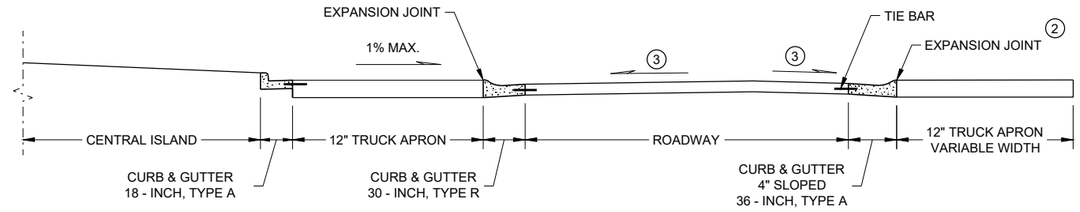
FHWA

6

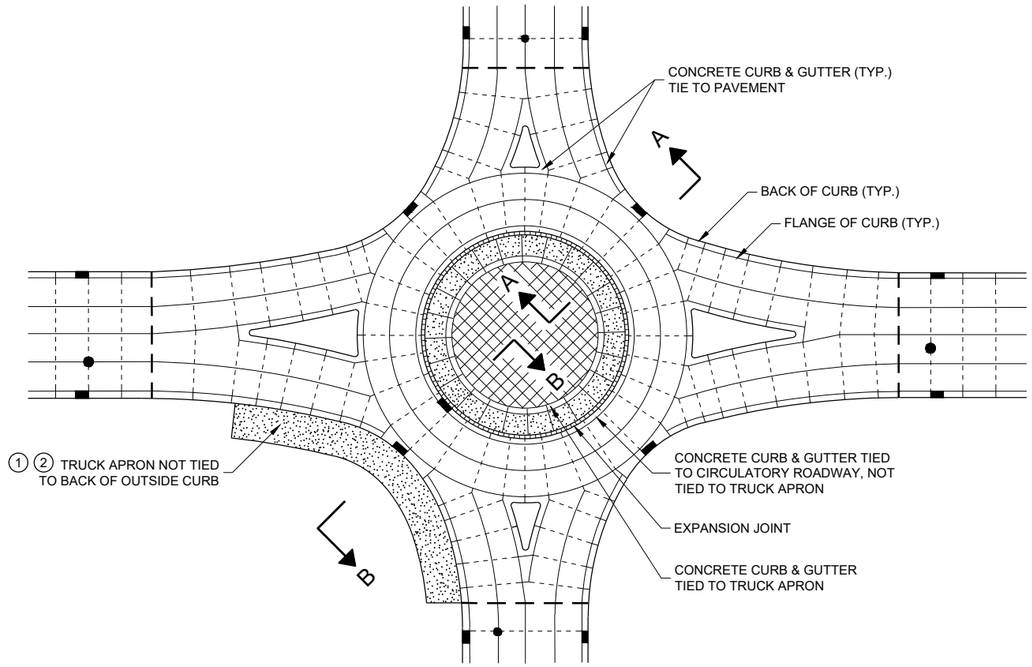
SDD 13C18 - 07d



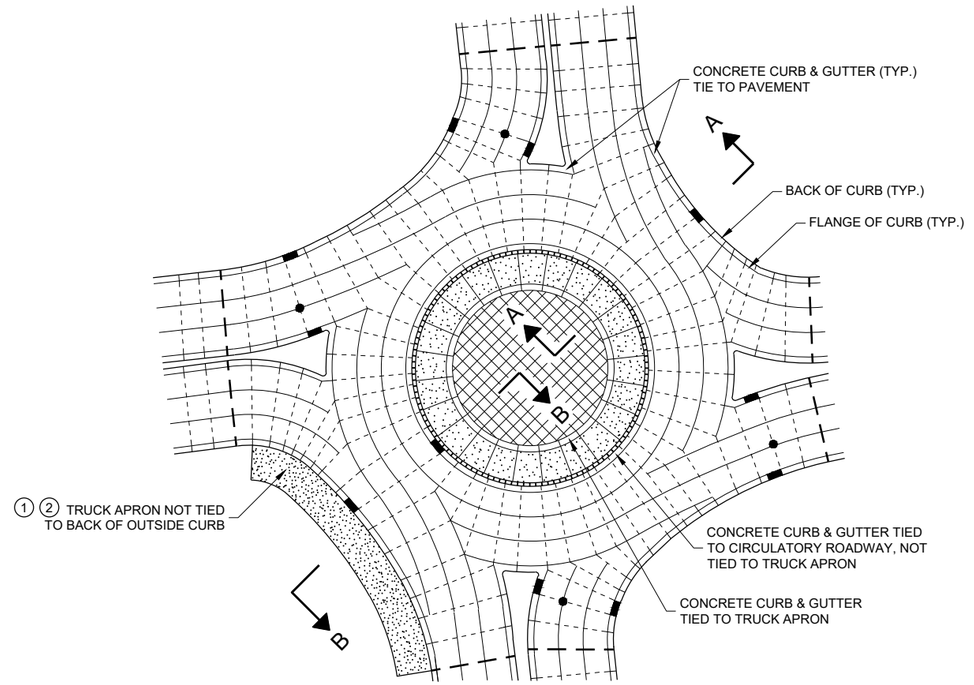
SECTION A - A



SECTION B - B



ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 - SHEET "a"

USE EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

(1) DESIGNER DETERMINES SIZE AND LOCATION(S) OF TRUCK APRON TO ACCOMODATE TRACKING OF OVERSIZE / OVERWEIGHT VEHICLES.

(2) TIE THE OUTSIDE TRUCK APRON TO THE BACK SIDE OF CURB ONLY WHEN ENTIRE TRUCK APRON IS LESS THAN 3 FEET.

(3) CONFORM TO PLAN CONSTRUCTION DETAILS FOR CIRCULATORY ROADWAY CROSS SLOPE.

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR

FHWA

685

6

SDD 13C18 - 07e

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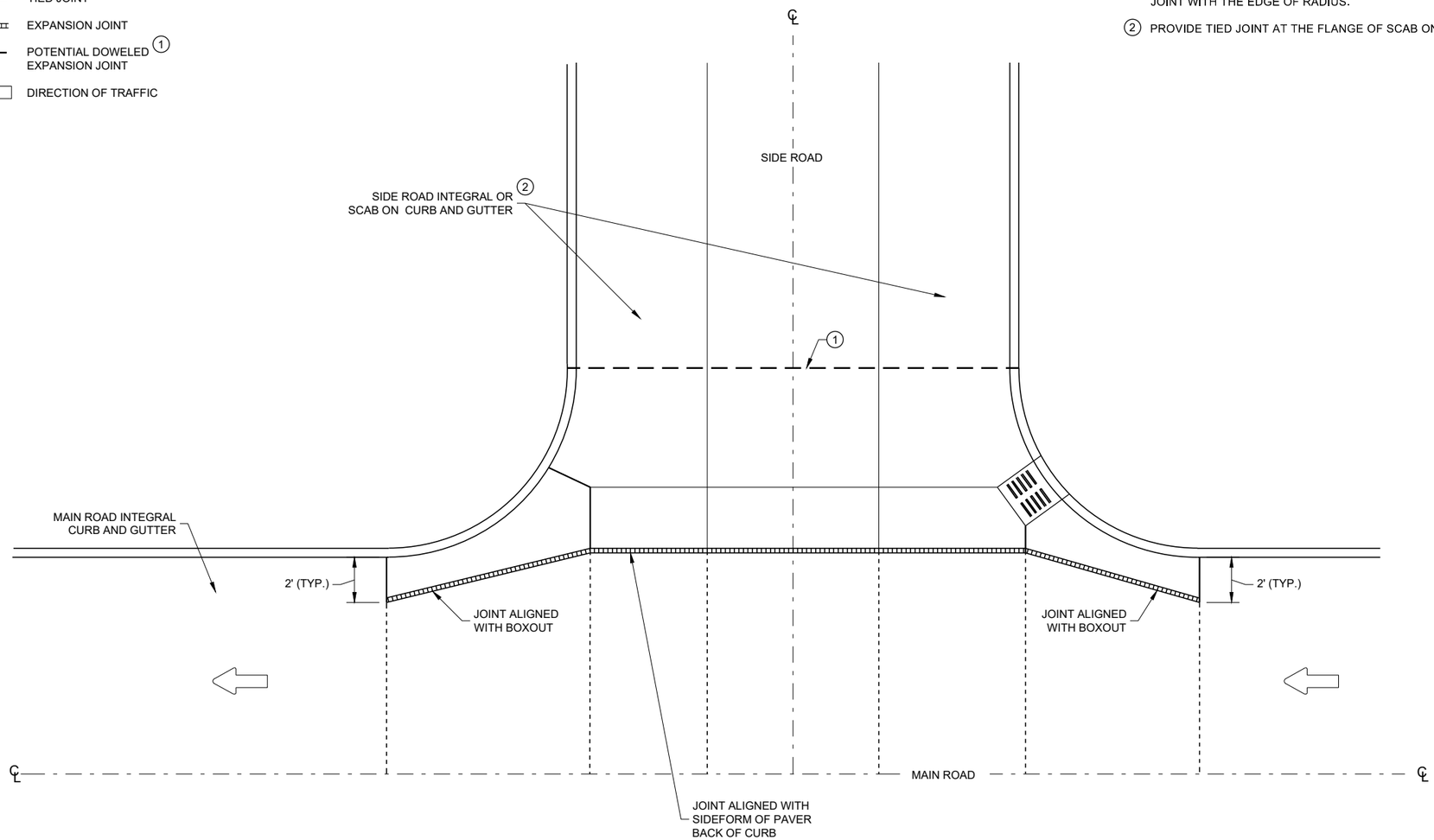
LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



GENERAL NOTES

(1) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH THE EDGE OF RADIUS.

(2) PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USE.

INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

6

SDD 13C18 - 07f

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SDD 13C18 - 07f

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

STATE OF WISCONSIN
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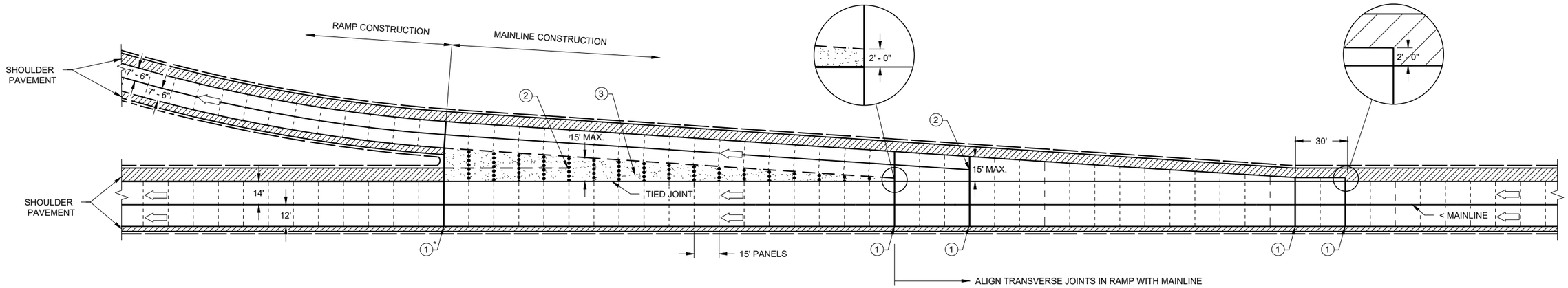
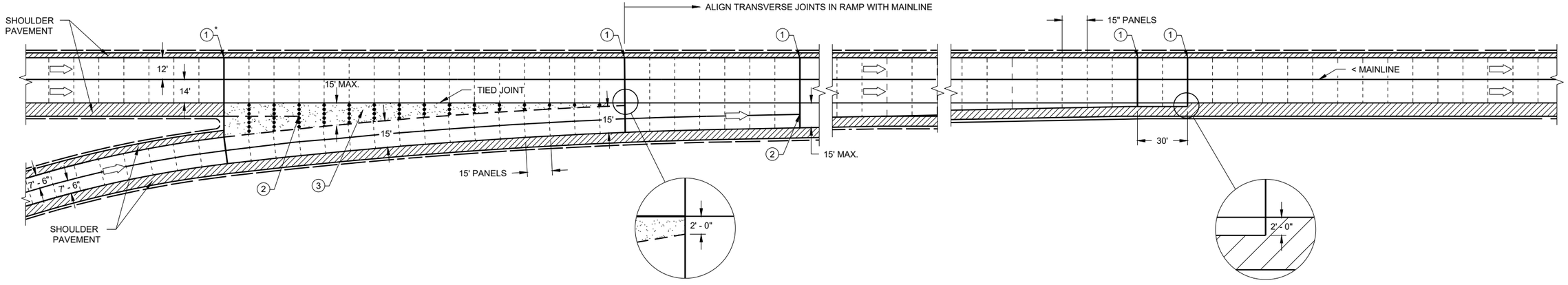
November 2018
DATE

/S/ Peter Kemp P.E.
ROADWAY STANDARDS DEVE ENGINEER

FHWA



DECELERATION LANE



ACCELERATION LANE

GENERAL NOTES

PAVEMENT AND BASE THICKNESS, PANEL LENGTHS, JOINTS AND REINFORCEMENT FOR THE DECELERATION AND ACCELERATION LANES, INCLUDING TAPERS, SHALL BE THE SAME AS THE MAINLINE, EXCEPT WHERE OTHERWISE NOTED.

ALL REINFORCEMENT BARS SHALL BE EPOXY COATED CONFORMING TO SUBSECTION 505.2.6 OF THE STANDARD SPECIFICATIONS.

LANE AND SHOULDER WIDTHS MAY VARY FROM SHOWN. SEE CONSTRUCTION PLANS FOR ACTUAL PROPOSED WIDTHS.

(1) CRITICAL TRANSVERSE JOINT LOCATIONS AT PAVEMENT WIDTH CHANGES. ((1)* IS NOT A CRITICAL TRANSVERSE JOINT WHEN ASPHALTIC GORE IS INSTALLED).

(2) STOP LONGITUDINAL JOINT WITH CORE HOLE (2" TYP.) WHEN IT MEETS THE FIRST TRANSVERSE JOINT LESS THAN 15' WIDE OR STOP LONGITUDINAL JOINT WHEN IT MEETS 2' AWAY FROM THE TIED JOINT OF THE MAINLINE.

(3) DISREGARD THE JOINT DETAILS IN AND AROUND THE GORE WHEN ASPHALTIC GORE IS INSTALLED.

LEGEND

- DOWELED JOINT
- UNDOWELED JOINT
- TIED JOINT
- UNTIED JOINT
- GORE
- DIRECTION OF TRAVEL

CONCRETE PAVEMENT JOINTING ACCELERATION/ DECELERATION LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

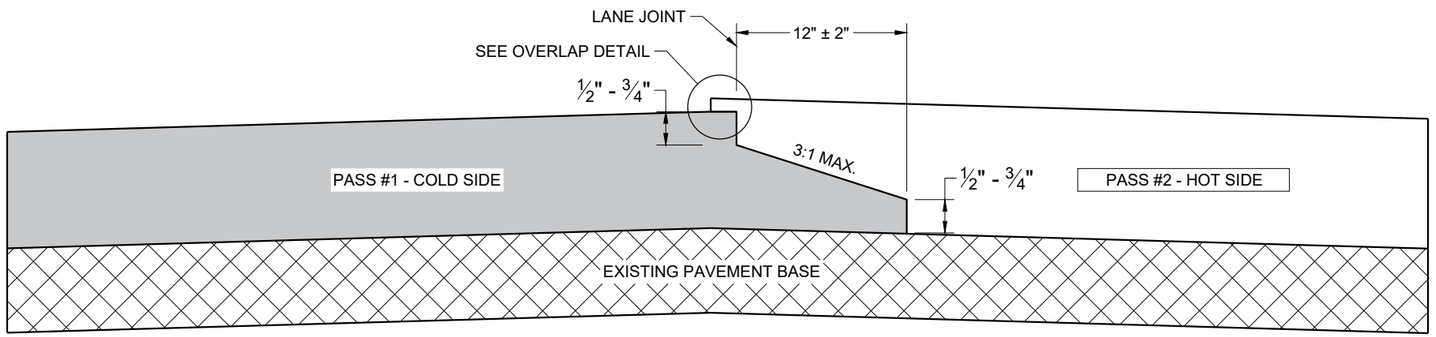
APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
ROADWAY STANDARDS DEVE ENGINEER

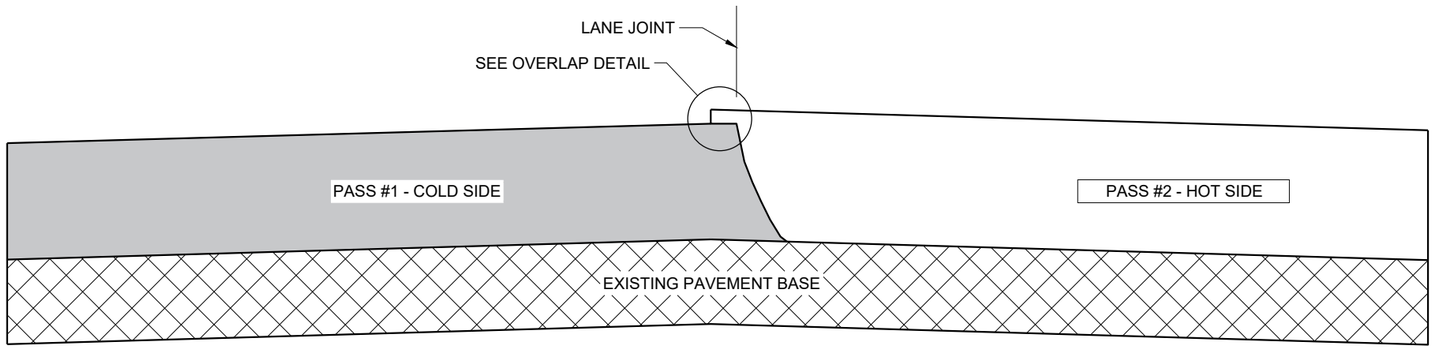
FHWA

SDD13C18 - 07g

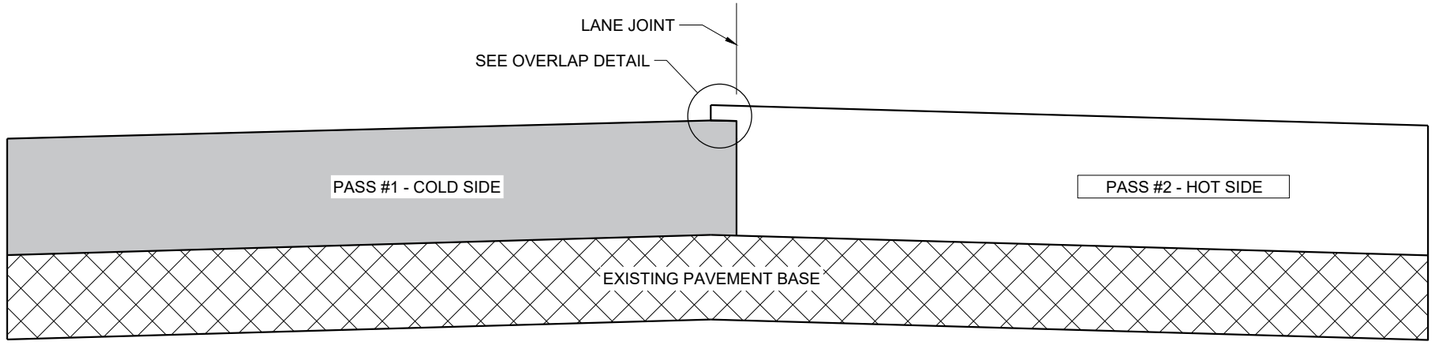
SDD13C18 - 07g



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

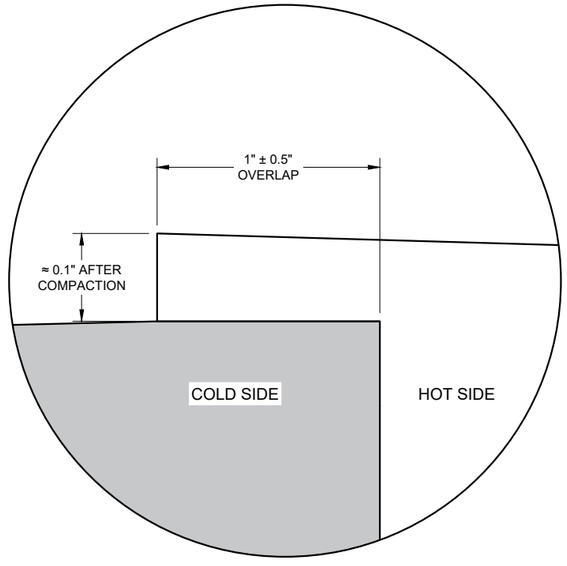
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

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SDD 13C19 - 03

SDD 13C19 - 03

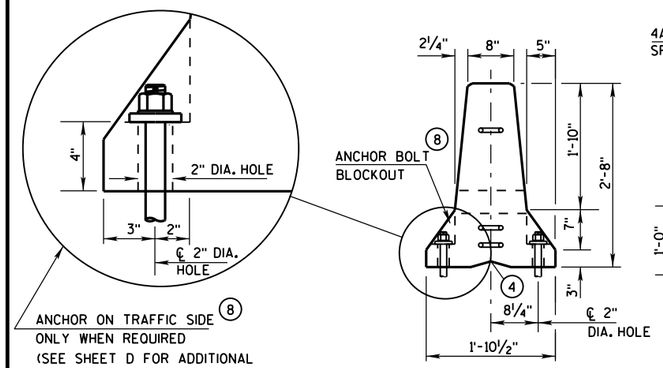
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

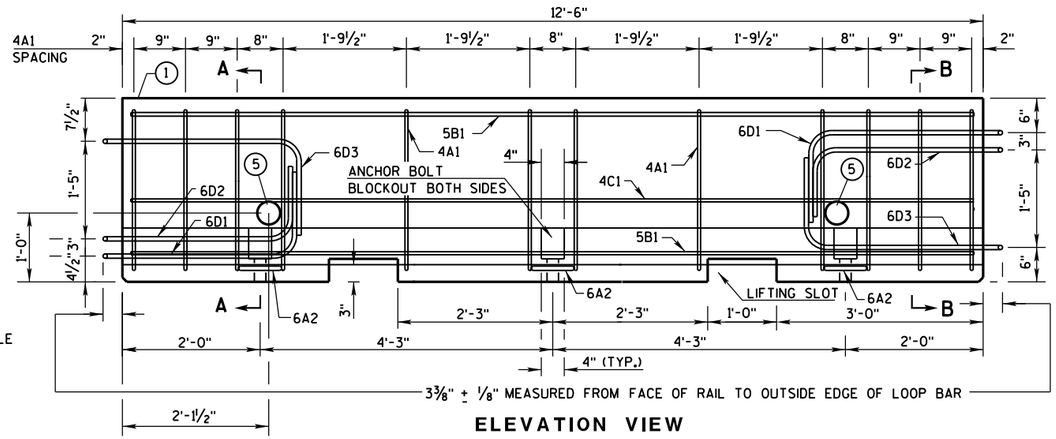
APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN 688

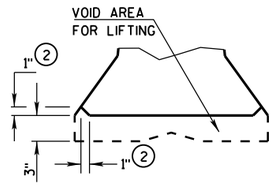
FHWA



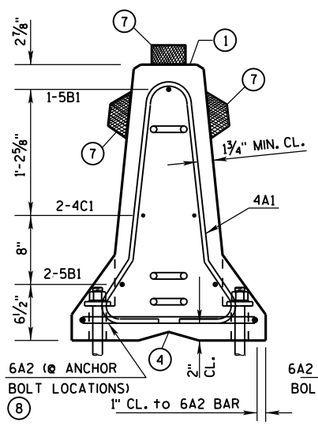
END VIEW



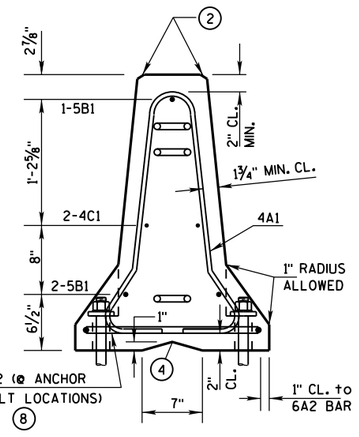
ELEVATION VIEW



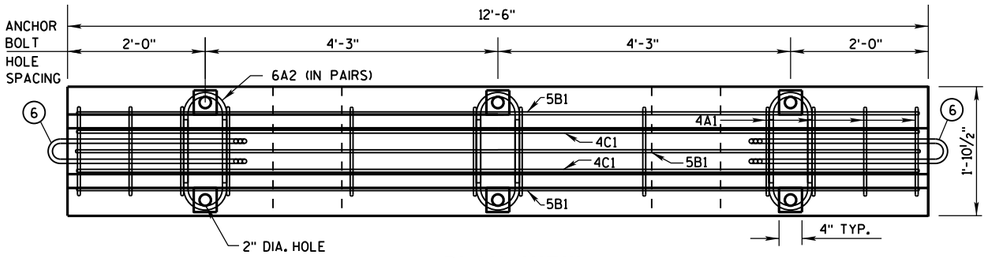
DETAIL "B"
LIFTING SLOT DETAIL



SECTION A-A
(STIRRUP PLACEMENT)

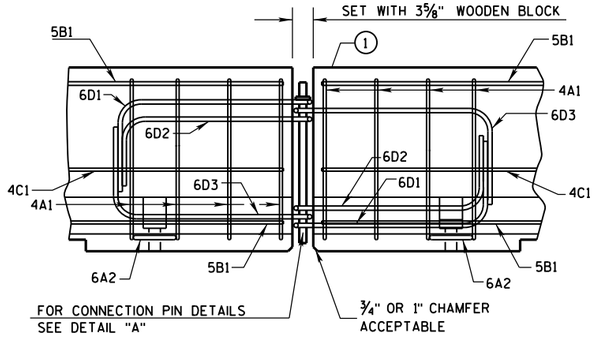


SECTION B-B
(STIRRUP PLACEMENT)

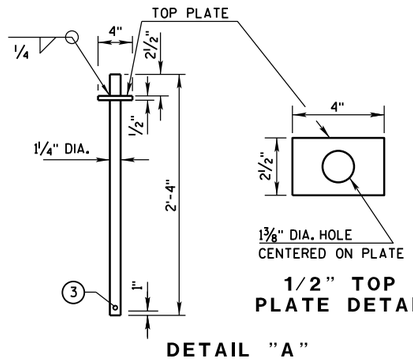


PLAN VIEW

DETAILS OF BARRIER SECTION

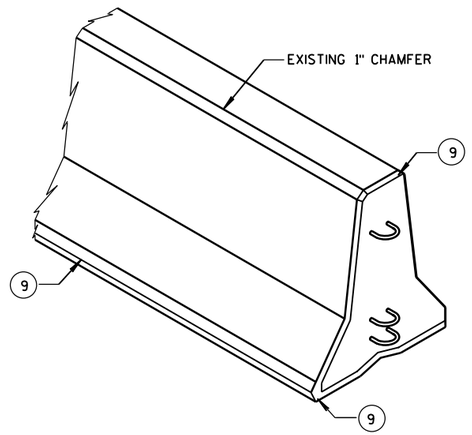


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

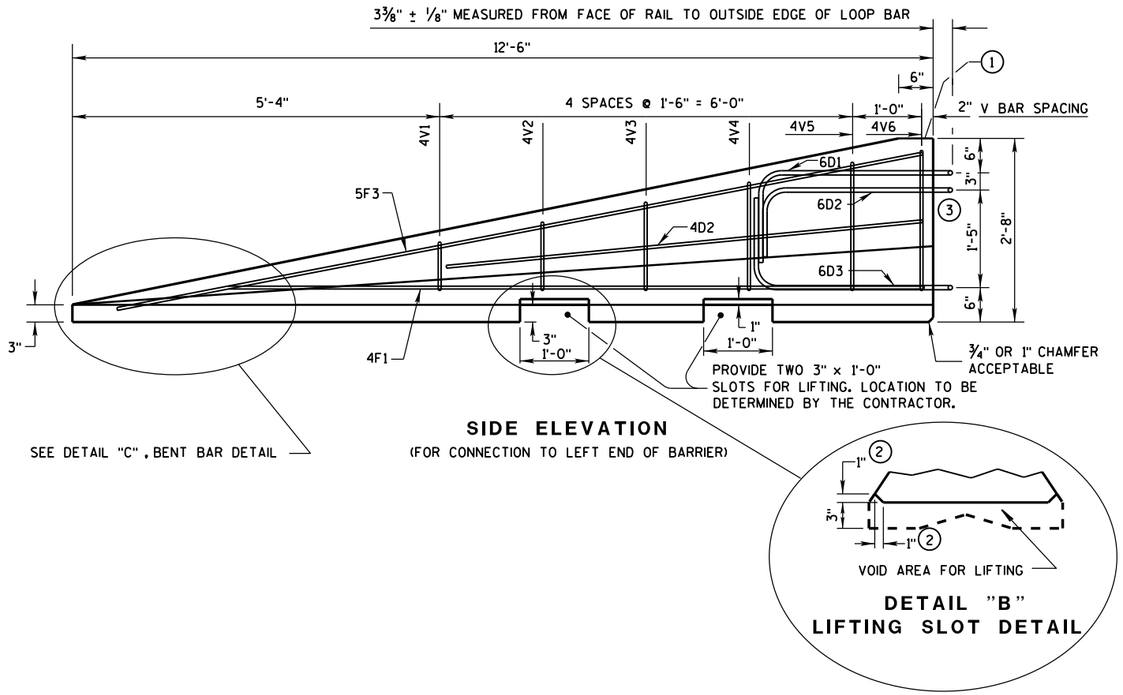
(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

(9) 1" CHAMFER OPTIONAL.

f'c = 4,000 psi

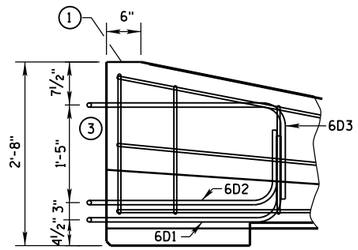
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 689



SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)

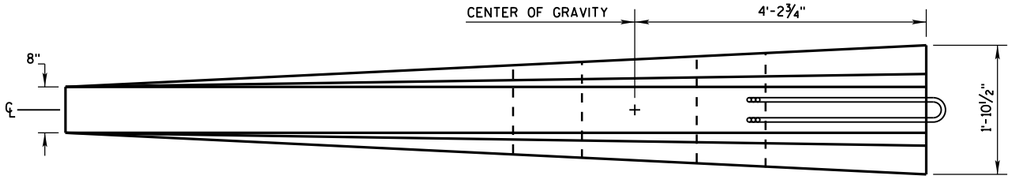
DETAIL "B"
LIFTING SLOT DETAIL



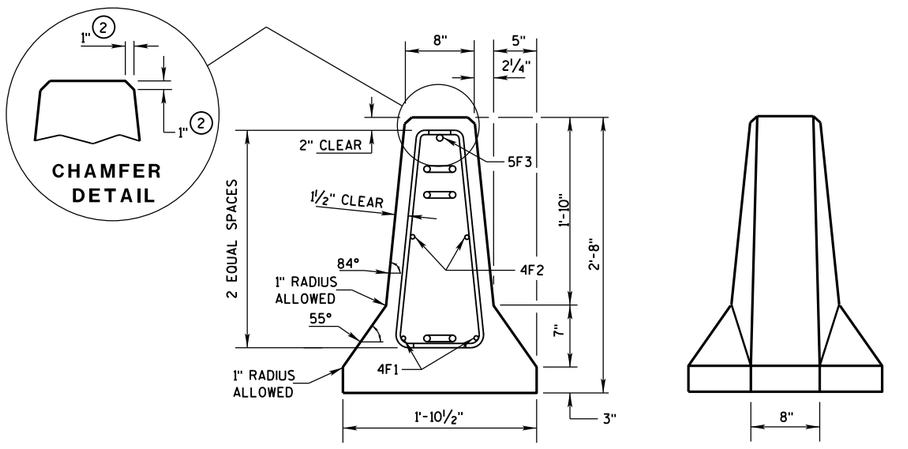
SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

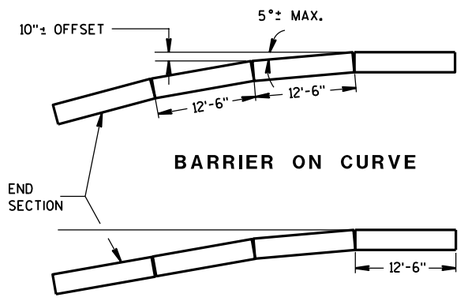
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



PLAN VIEW



END SECTION **FRONT ELEVATION**



BARRIER ON CURVE

FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

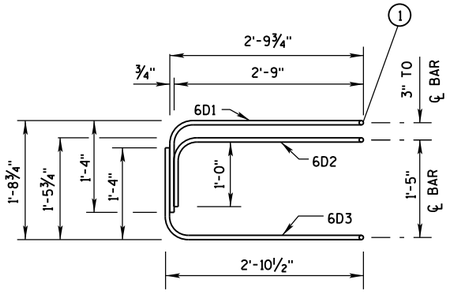
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 690

6
S.D.D. 14 B 7-15b

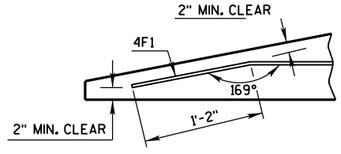
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

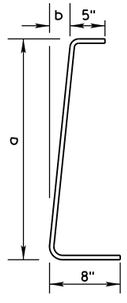
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

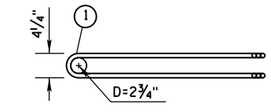
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

BARRIER SECTION BILL OF MATERIALS

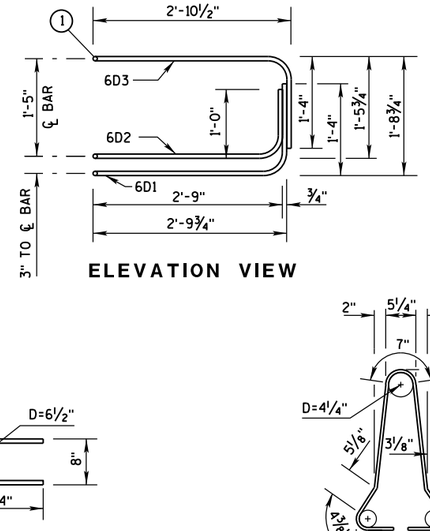
(PER 12'-6" BARRIER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

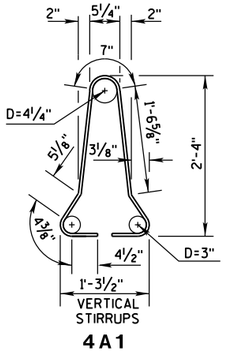


PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)

6A2



ELEVATION VIEW



4A1

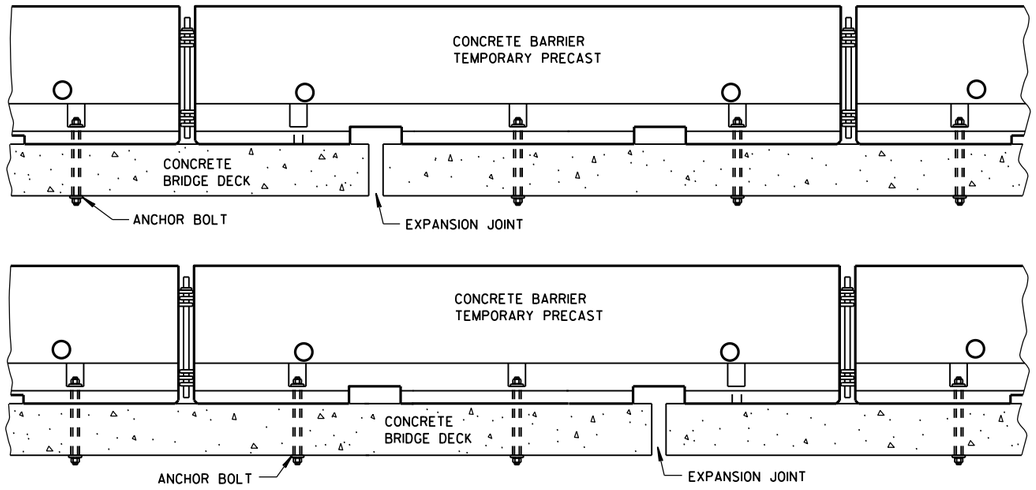
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 7-15c



TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

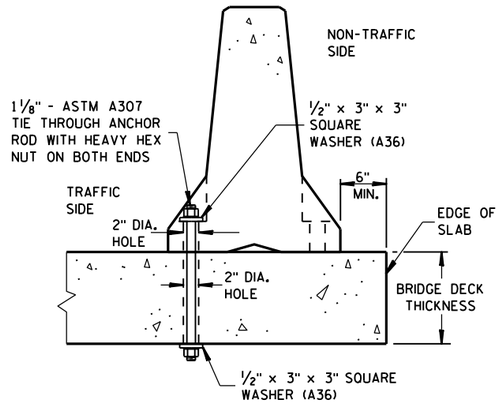
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

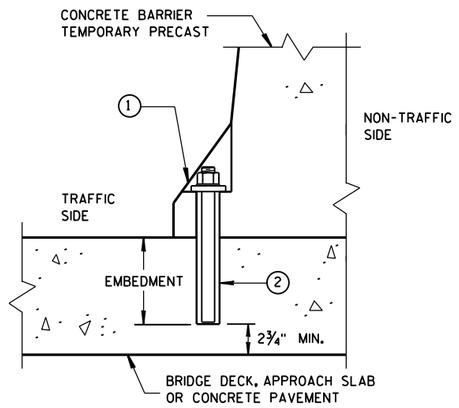
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



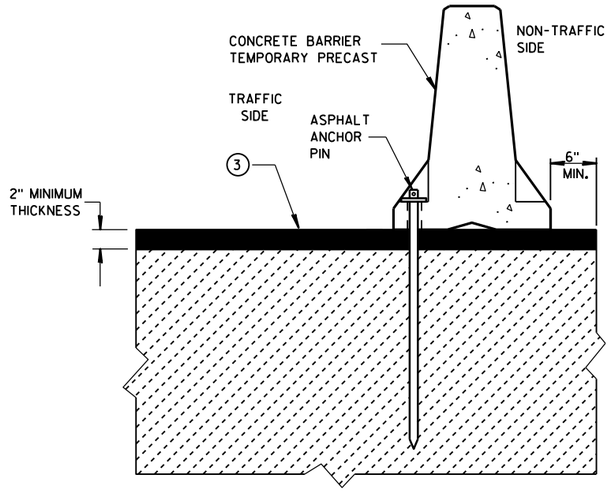
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

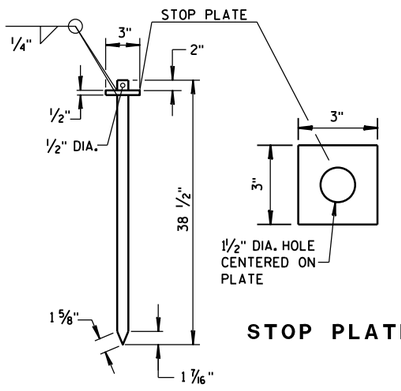


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



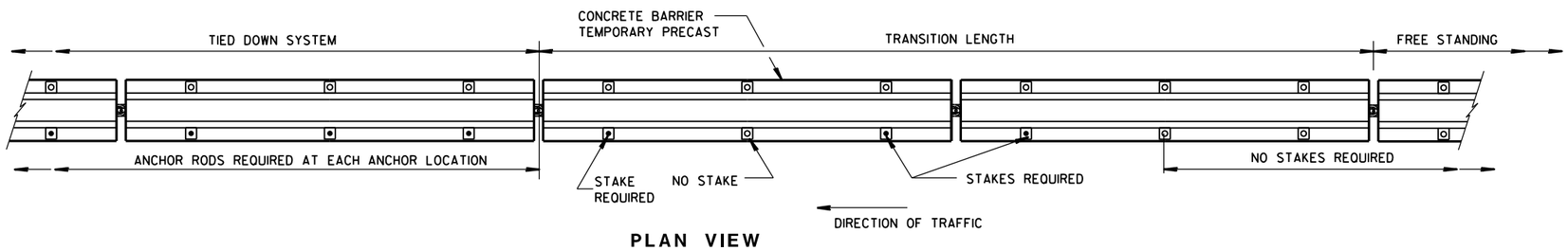
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

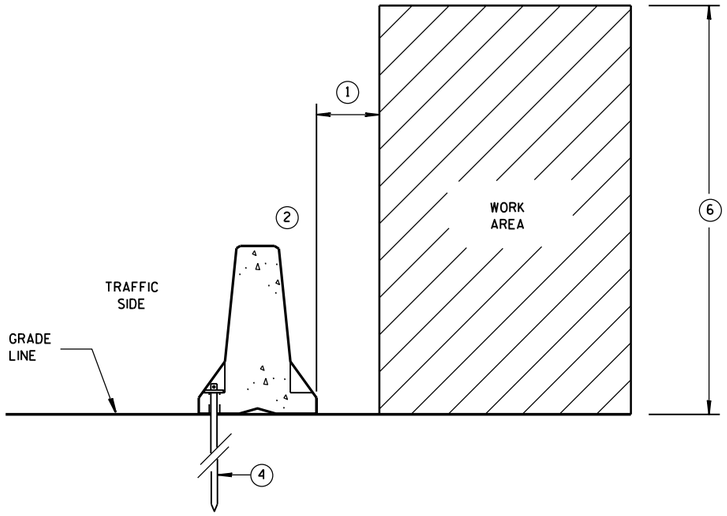
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

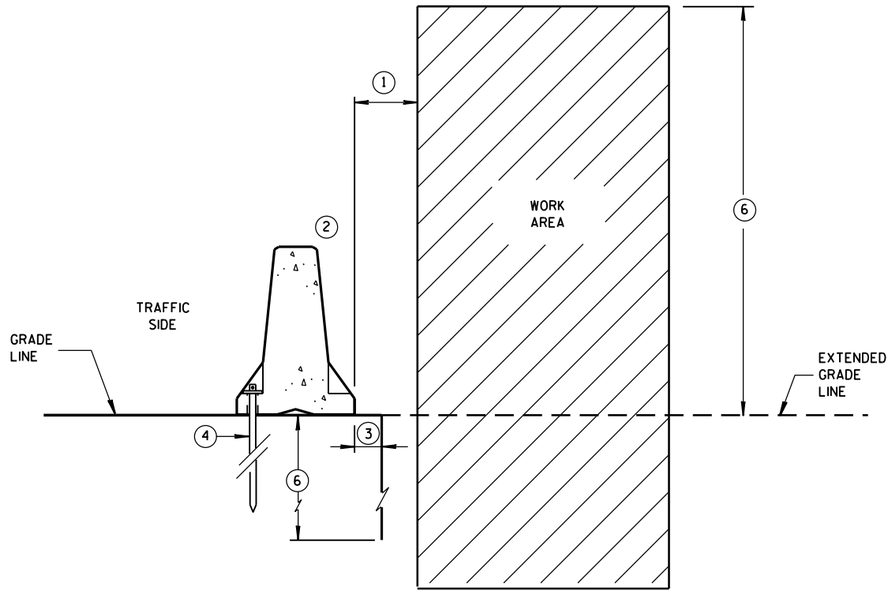
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-15d



ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

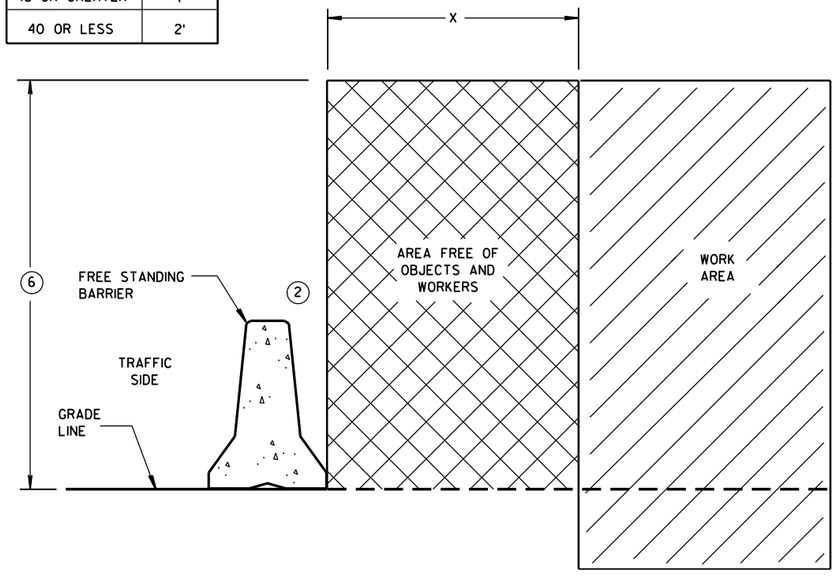


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

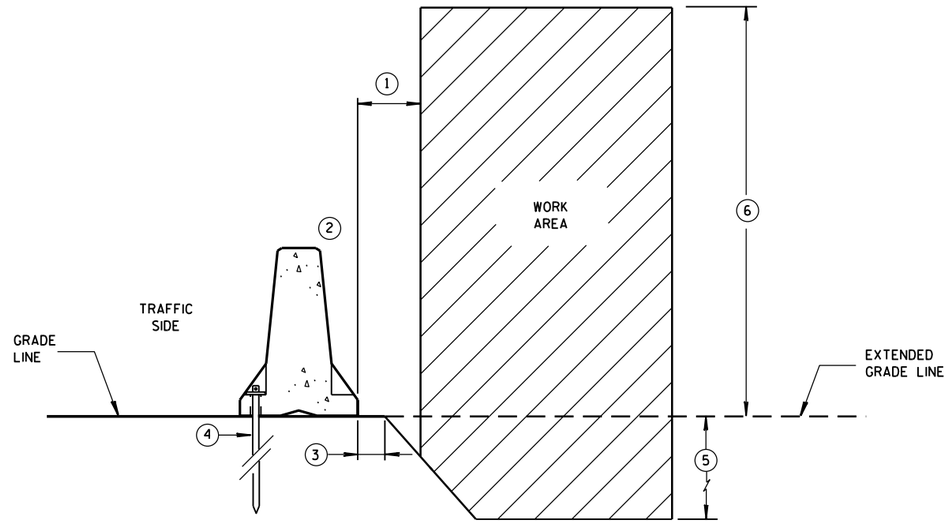
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



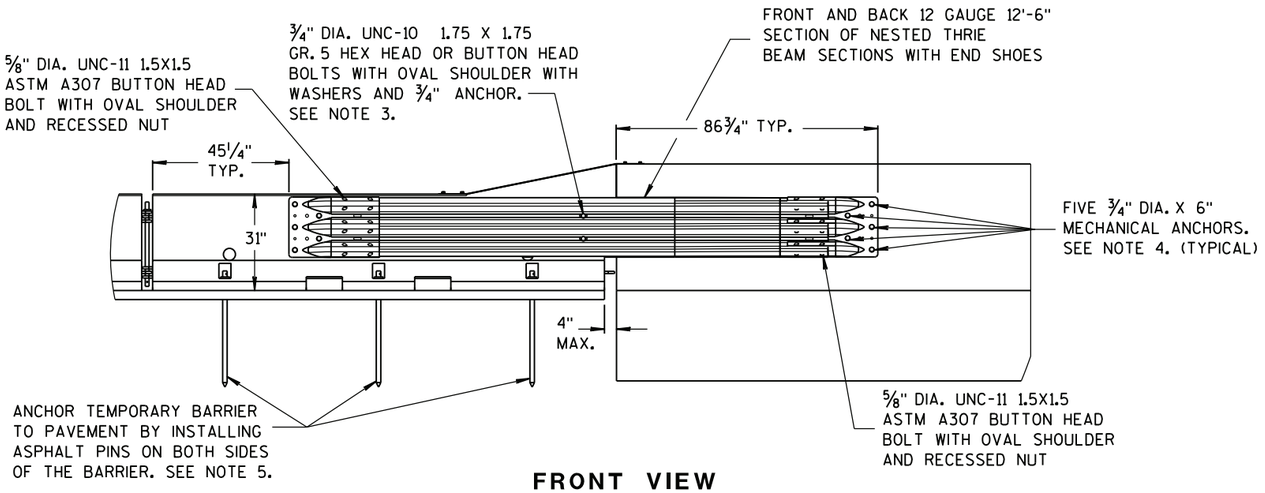
ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

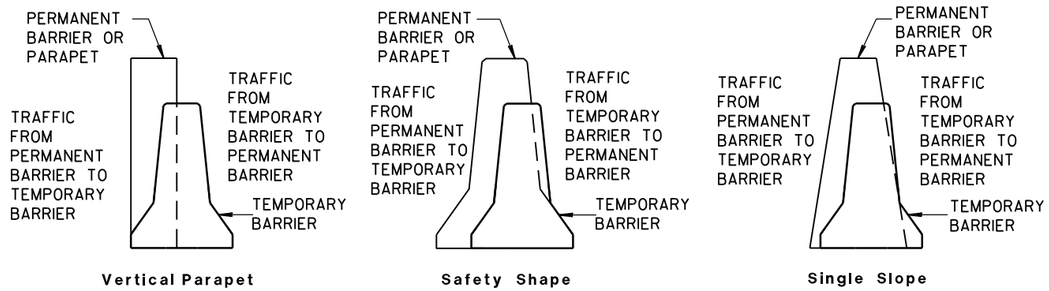
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

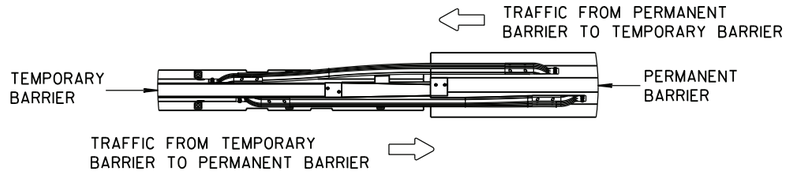
6

S.D.D. 14 B 7-15e



FRONT VIEW



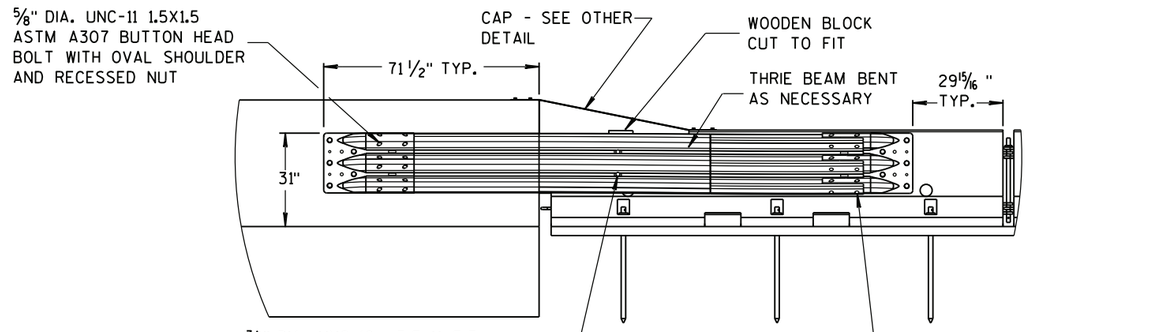


TEMPORARY BARRIER PLACEMENT FOR TRANSITION TO TIED DOWN SYSTEM

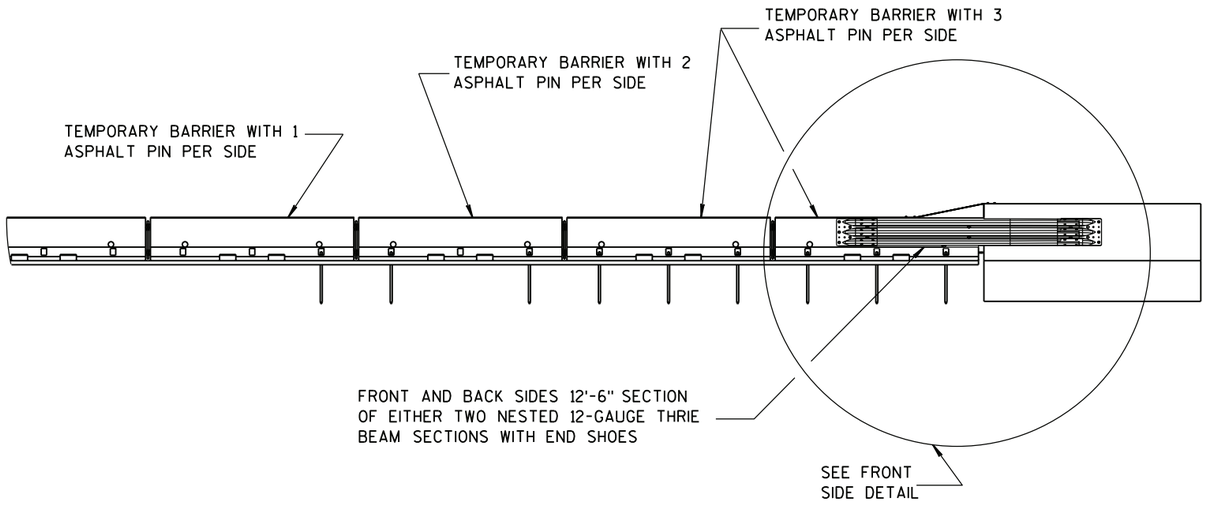
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS REGARDLESS OF TRAFFIC.

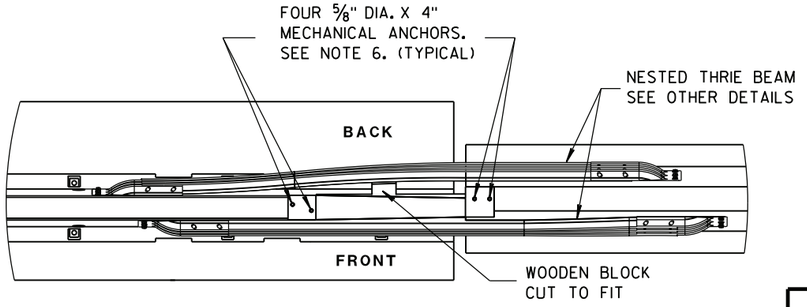
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BACK VIEW



FRONT VIEW



PLAN VIEW

TRANSITION TO TIED DOWN SYSTEM

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

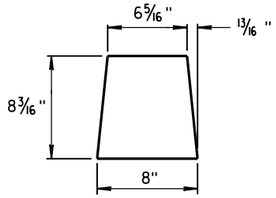
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 694

6

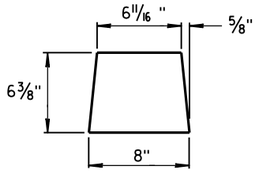
S.D.D. 14 B 7-15f

6

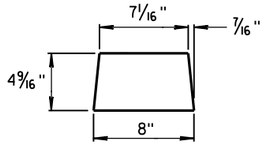
S.D.D. 14 B 7-15f



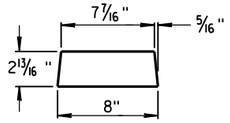
GUSSET 1



GUSSET 2

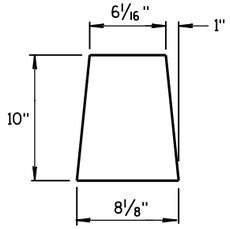


GUSSET 3

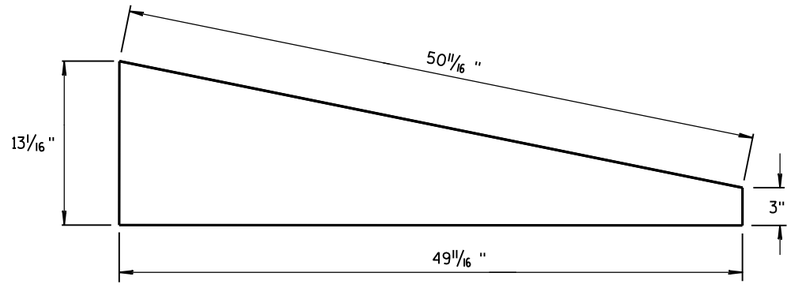


GUSSET 4

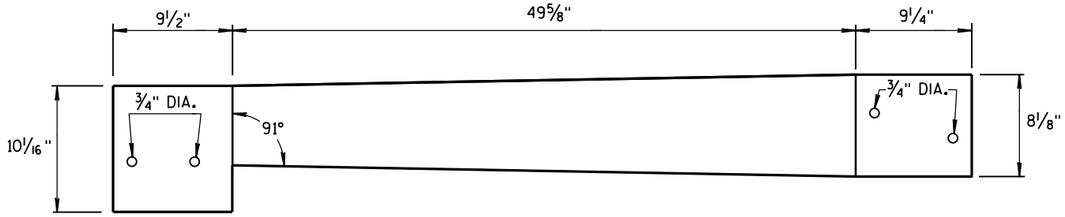
GUSSETS

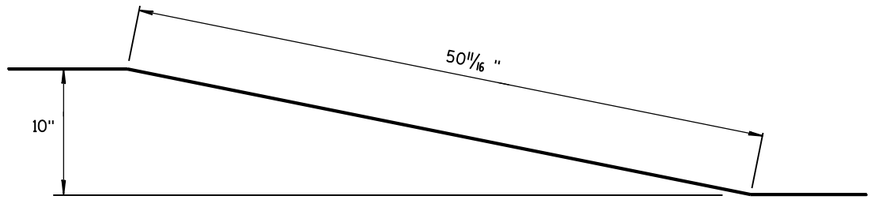


END PLATE



SIDE PLATE

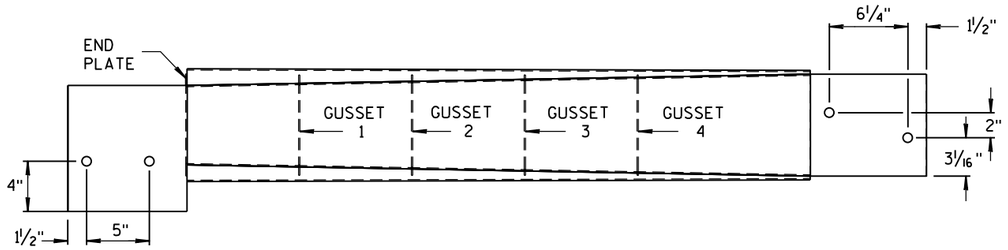


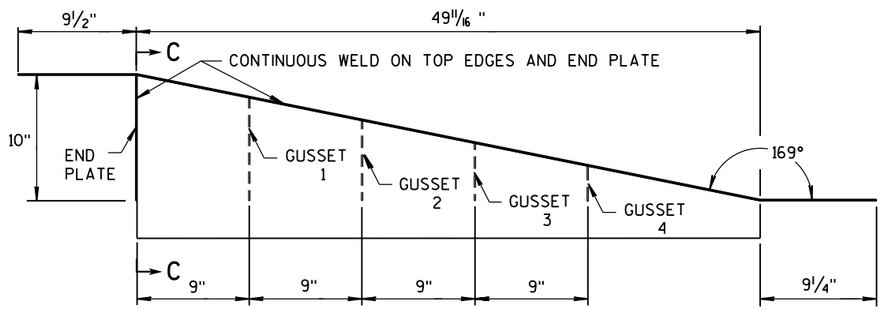


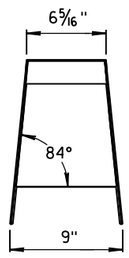
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

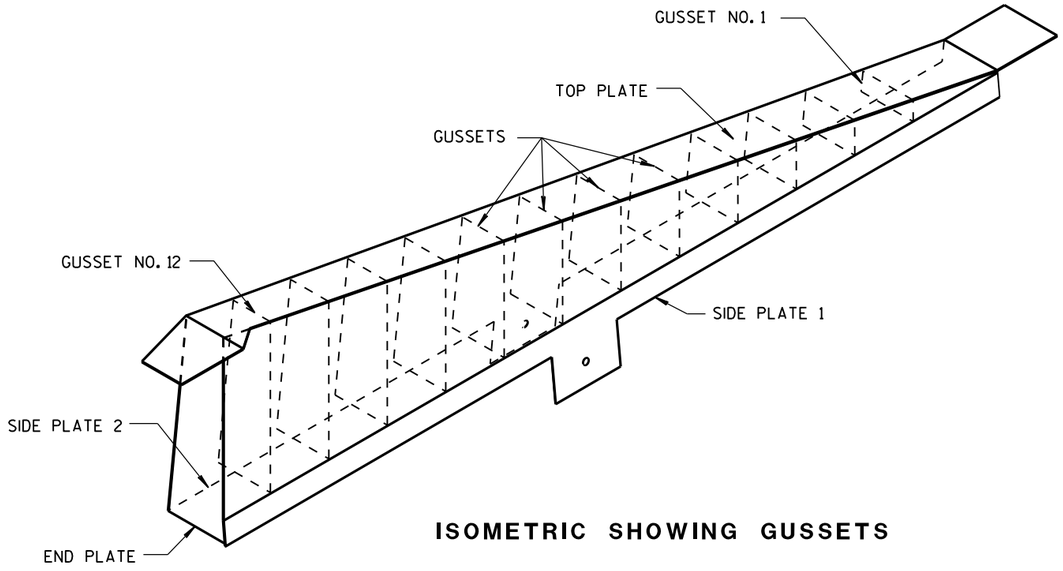
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 695

6

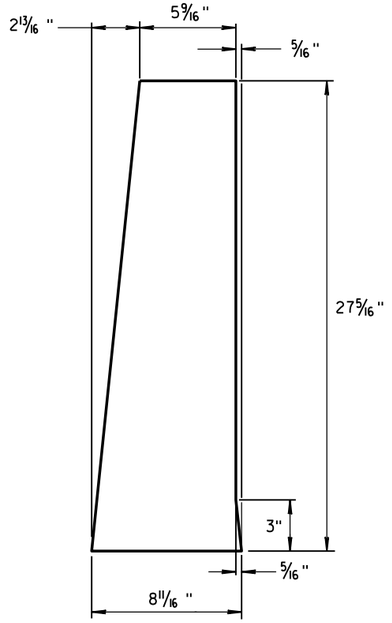
S.D.D. 14 B 7-15g

6

S.D.D. 14 B 7-15g

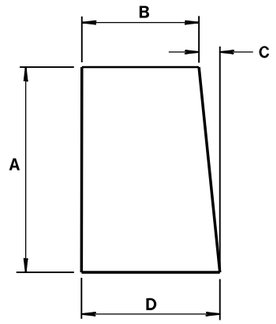


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



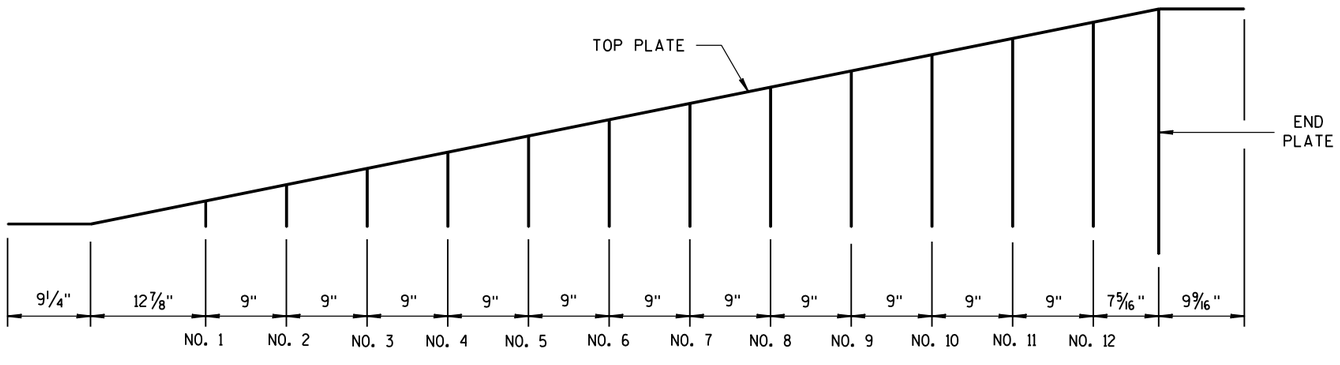
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

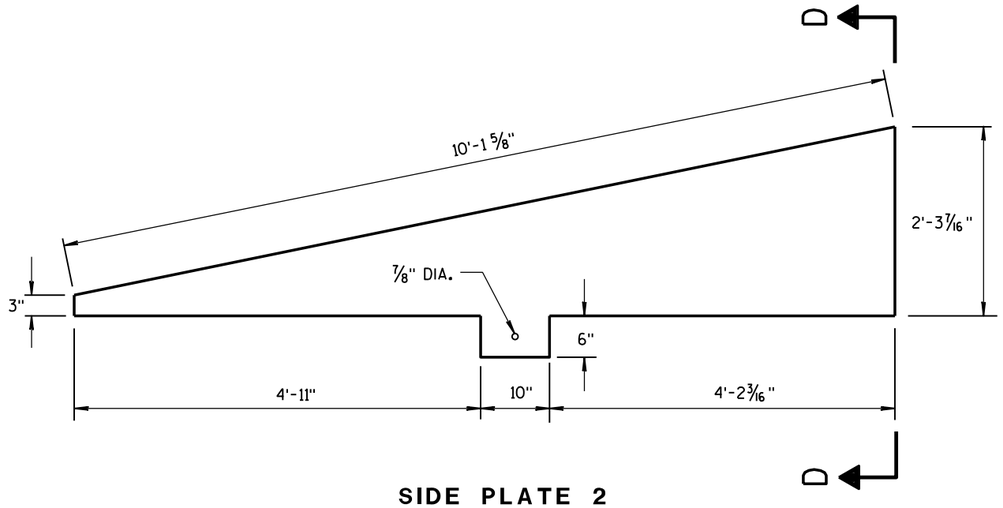
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 696

6

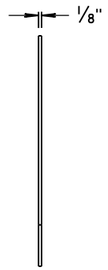
S.D.D. 14 B 7-15h

6

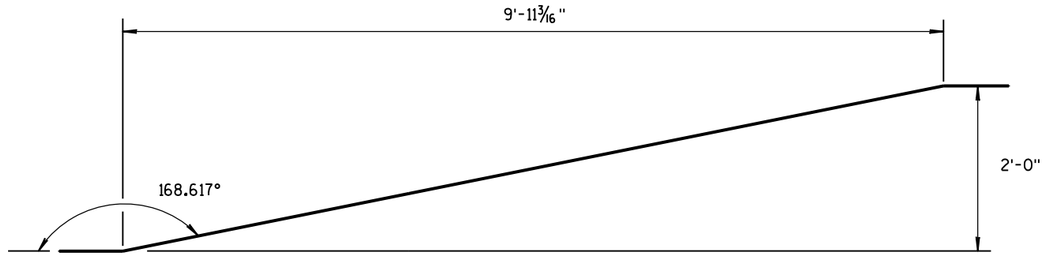
S.D.D. 14 B 7-15h



SIDE PLATE 2

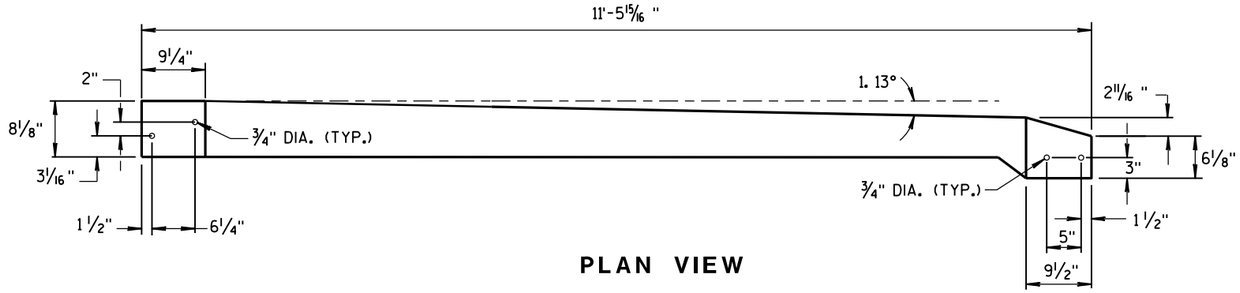


END VIEW



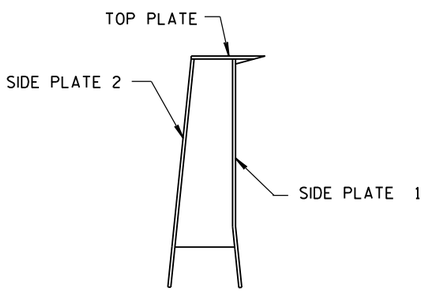
SIDE VIEW

TOP PLATE

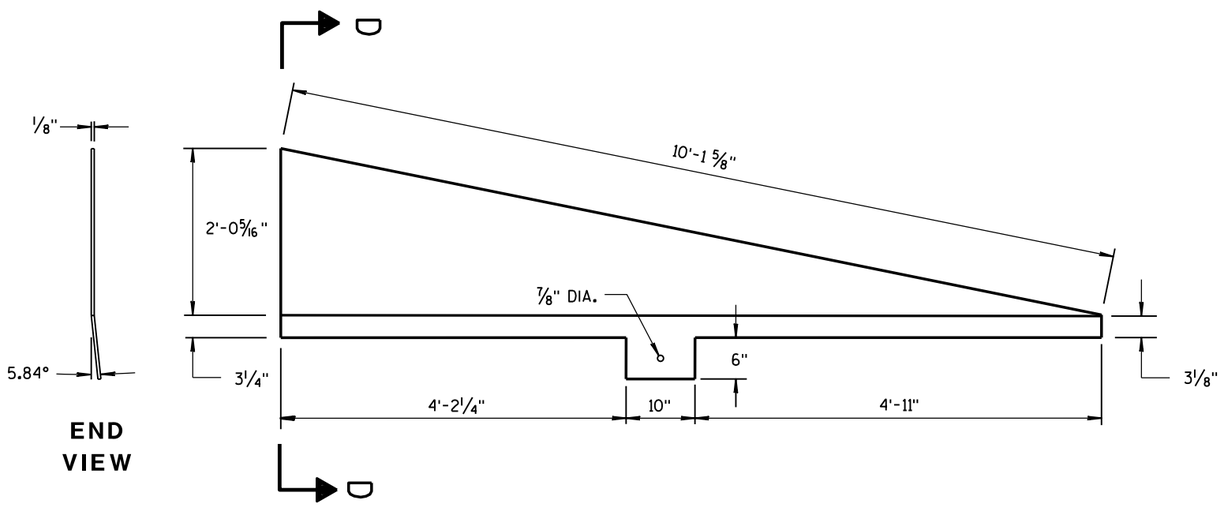


PLAN VIEW

TOP PLATE



SECTION D-D



END VIEW

SIDE PLATE 1

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER

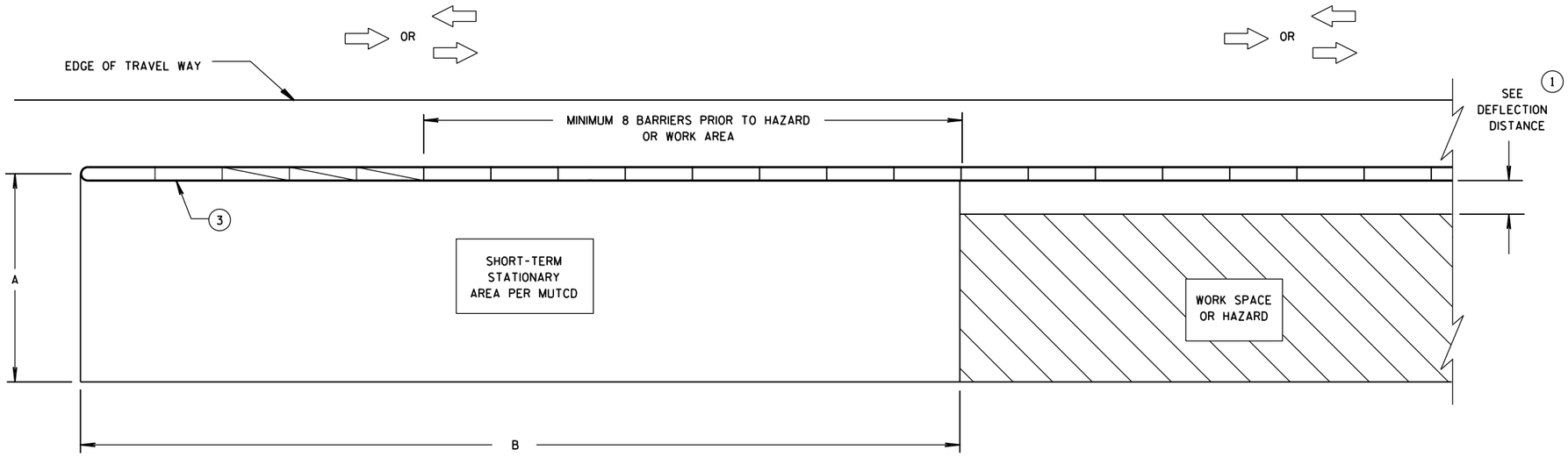
697

S.D.D. 14 B 7-15i

6

S.D.D. 14 B 7-15i

6



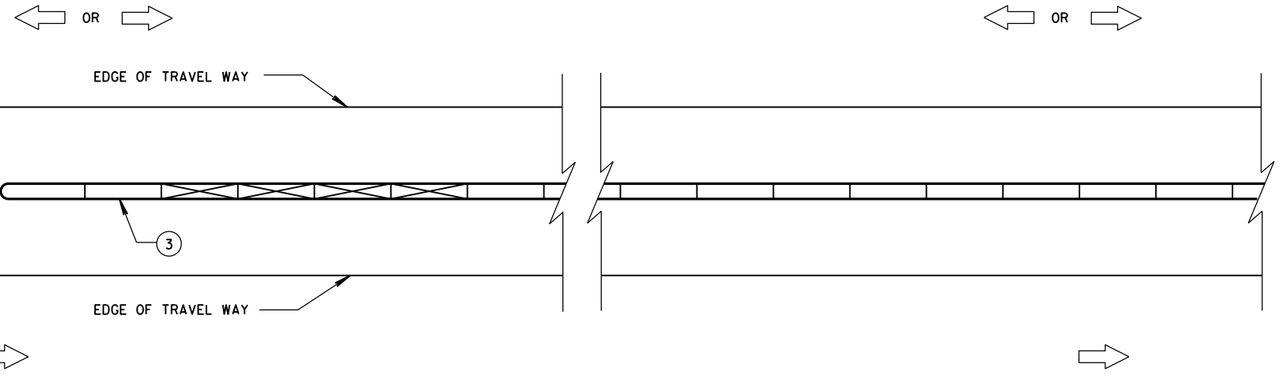
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

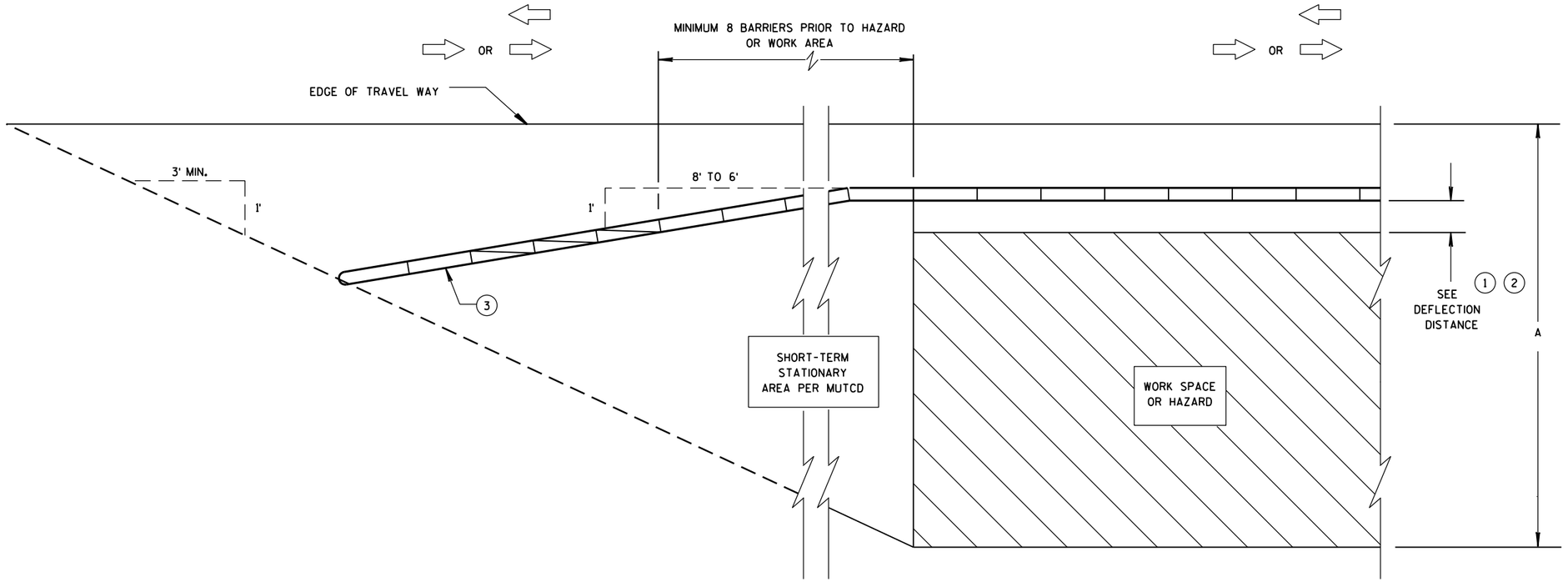
(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

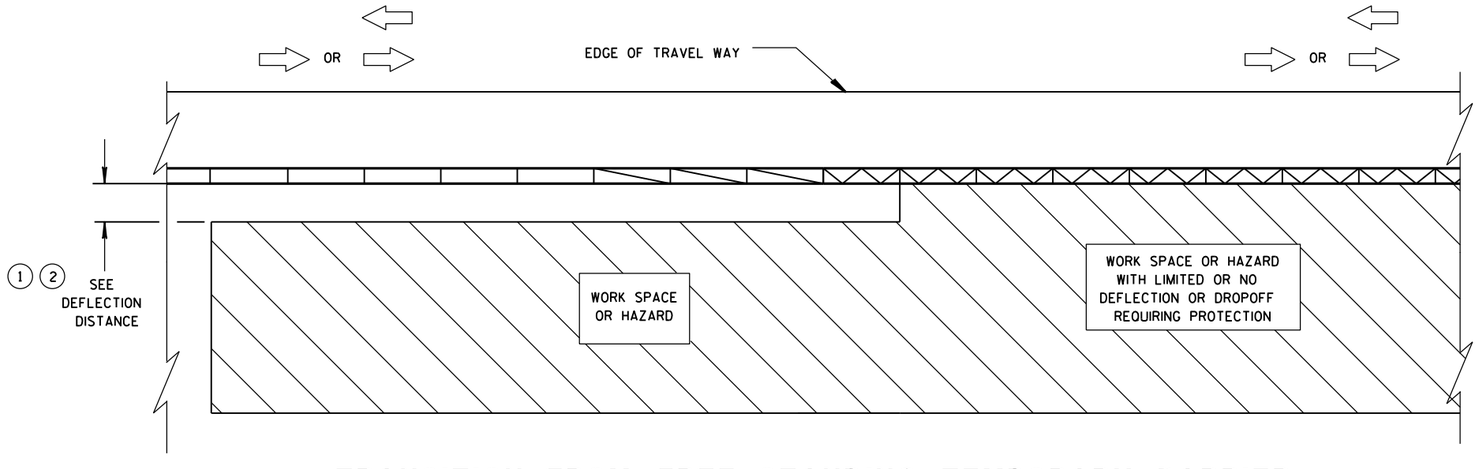
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

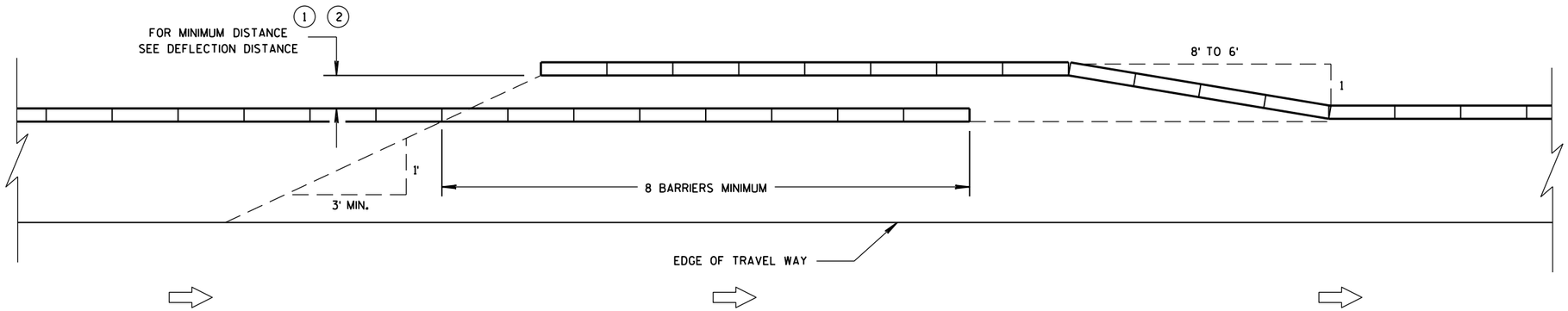
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

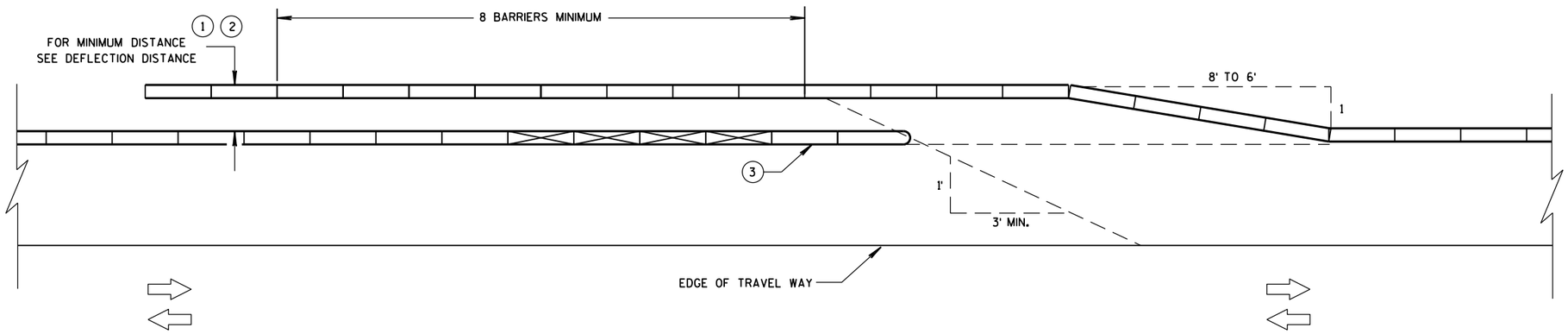
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

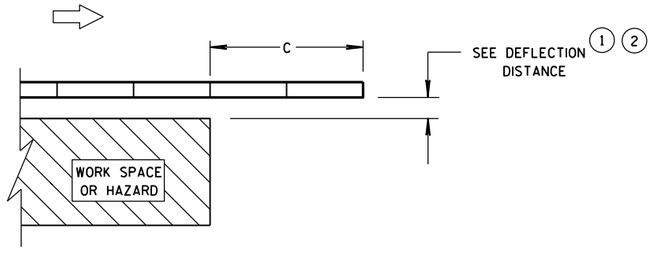
S.D.D. 14 B 8-2b



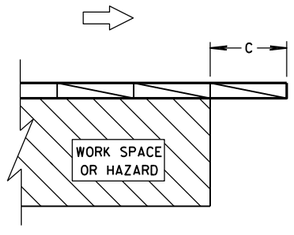
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

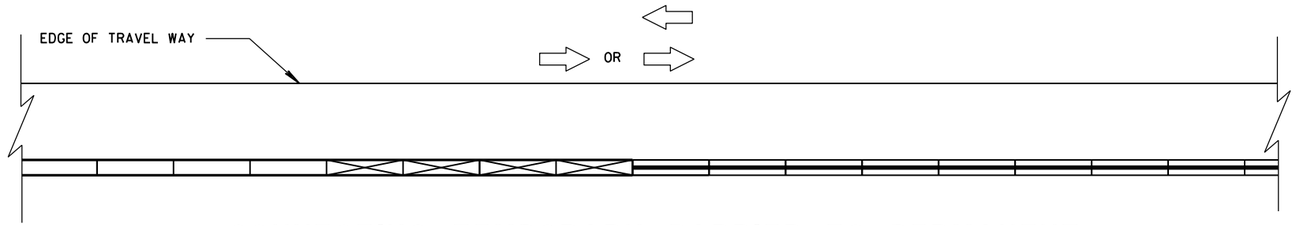
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 700

6

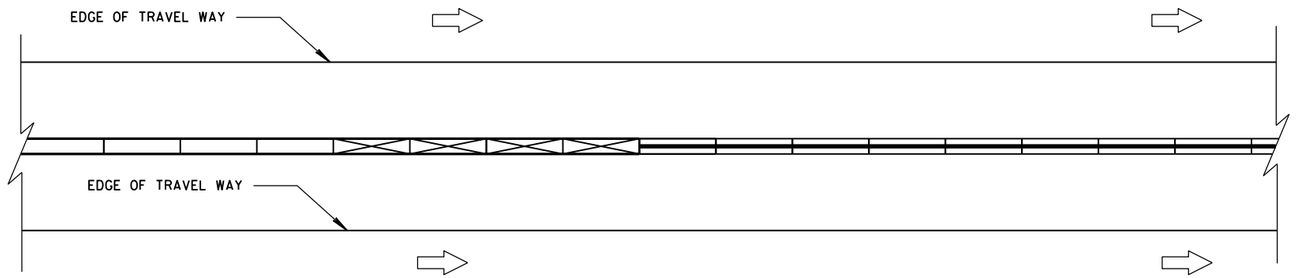
S.D.D. 14 B 8-2c

6

S.D.D. 14 B 8-2c



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR
SAND BARREL ARRAY

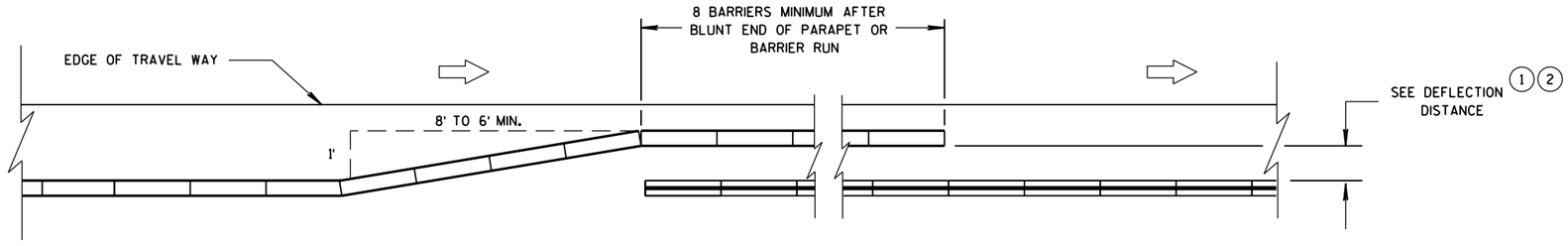
SEE FREE STANDING TRANSITION
TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

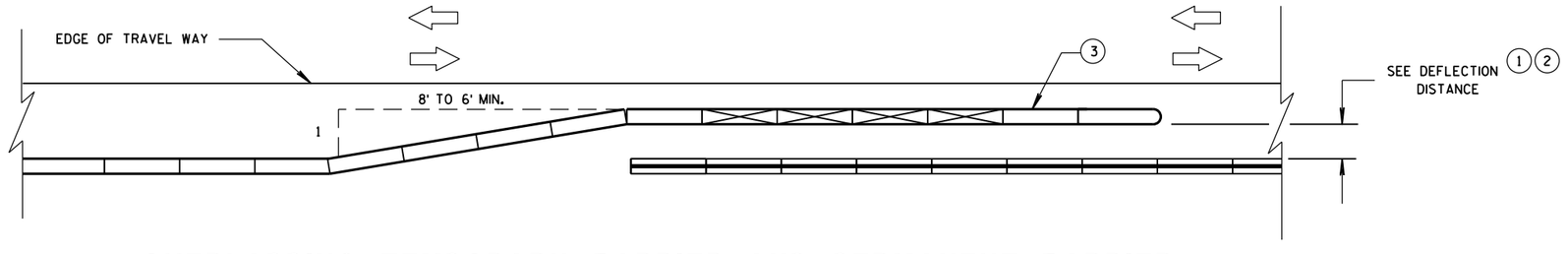
3 PINS PLACED ON
TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER
OR CONCRETE PARAPET

FREE STANDING TEMPORARY
BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

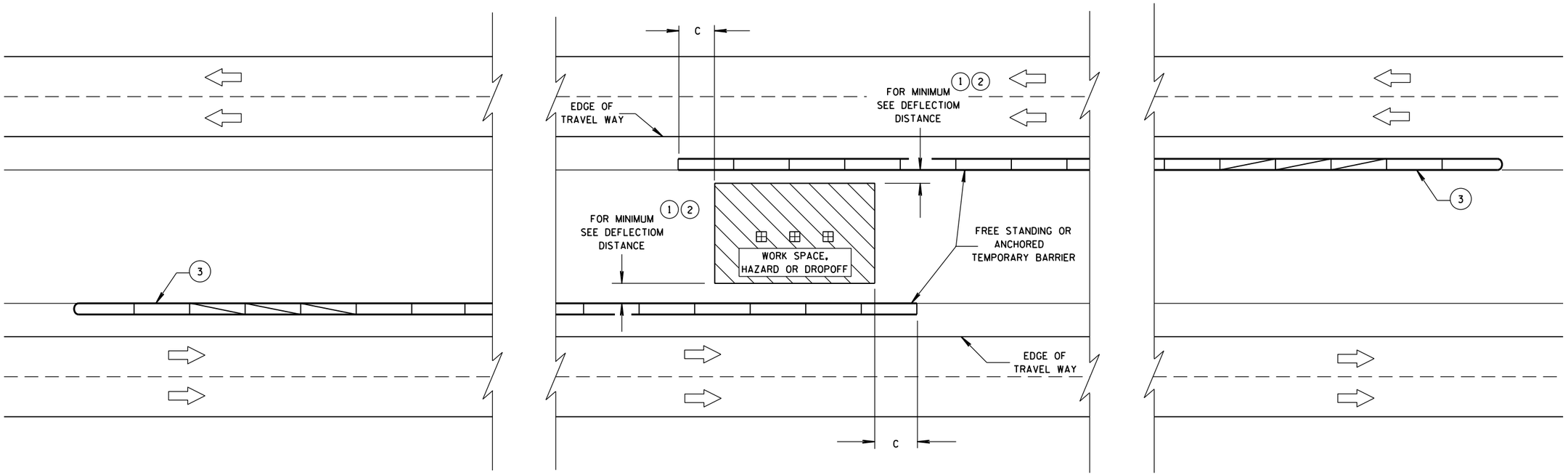
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

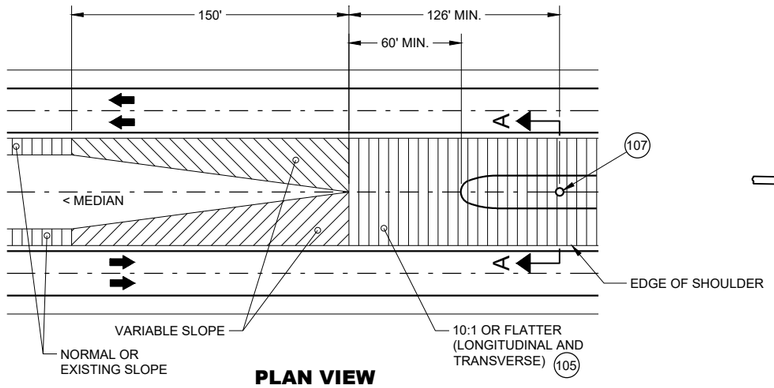
AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



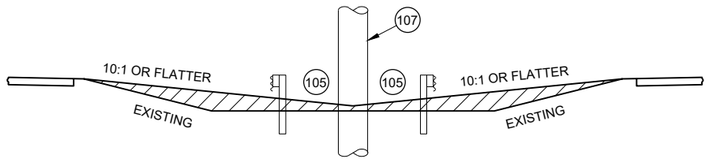
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINNER
FHWA



PLAN VIEW
GRADING AT BULLNOSE
(ALL INSTALLATIONS)



SECTION A -A
MEDIAN GRADING
(ALL INSTALLATIONS)

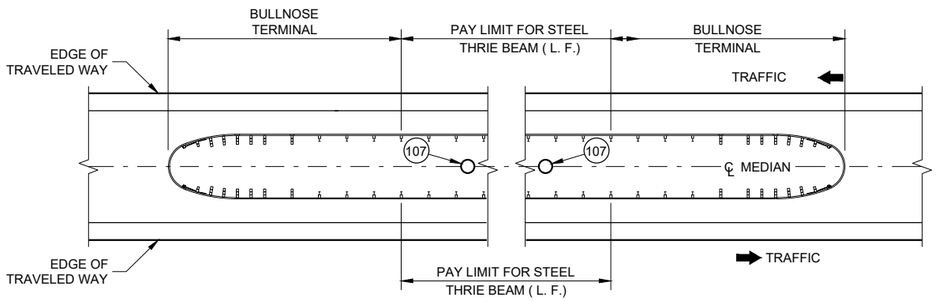
GENERAL NOTES

THRIE BEAM RAILS MAY NEED TO BE FIELD BENT TO FIT THE LOCATION.

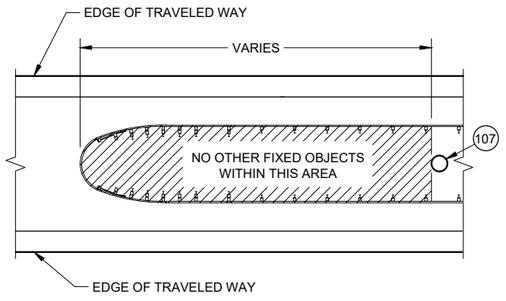
SEE STANDARD DETAIL DRAWINGS 14B26 SHEETS a-h.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 ½". MINIMUM DIAMETER OF THE ROCK REMOVAL IS 12" DIAMETER

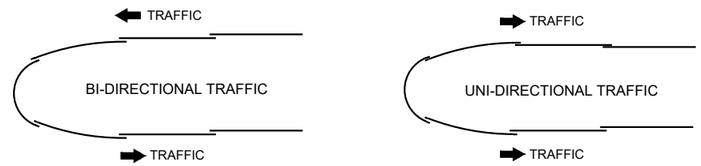
- E1 UNBENT STANDARD THRIE BEAM RAIL B1 (POST 8 TO POST 10 AND POST 10 TO POST 12)
- E2 SLOTTED THRIE BEAM RAIL E1 (POST 1 TO POST 1)
- E3 SLOTTED THRIE BEAM RAIL B3 (POST 5 TO POST 8)
- E4 SLOTTED THRIE BEAM RAIL E4 (POST 1 TO POST 5)
- 5 BEYOND POST 12: CONSTRUCT STEEL THRIE BEAM - USE UNBENT STANDARD THRIE BEAM RAIL NO. 5.
- (100) DIMENSIONS ARE FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO POST OR BLOCK.
- (101) U-BOLT CABLE CLIPS (3 PER CABLE) SPACED OUT ON NOSE, TO HOLD CABLE TO BACKSIDE OF THE RAIL.
- (102) NOSE CABLE WITH SWAGGED END BUTTONS.
- (103) NOSE CABLE ANCHOR PLATE (BACKSIDE OF SPLICE).
- (104) THE SLACK IN THE NOSE CABLES SHALL BE EVENLY DISTRIBUTED BETWEEN THE CABLE CLIP FASTENERS AND POST NO. 1 ON EITHER SIDE OF THE NOSE.
- (105) MINIMUM WORKING WIDTH 4' - 2".
- (106) MAX. WIDTH OF SYSTEM IS 14' - 2 ½" MEASURED FROM THE BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO A POST OR BLOCK.
- (107) FIXED OBJECT OR OTHER HAZARD.
- (108) PLAN IS TO PROVIDE STATION OFFSET TO CENTER OF POST 5 IN PLANS.



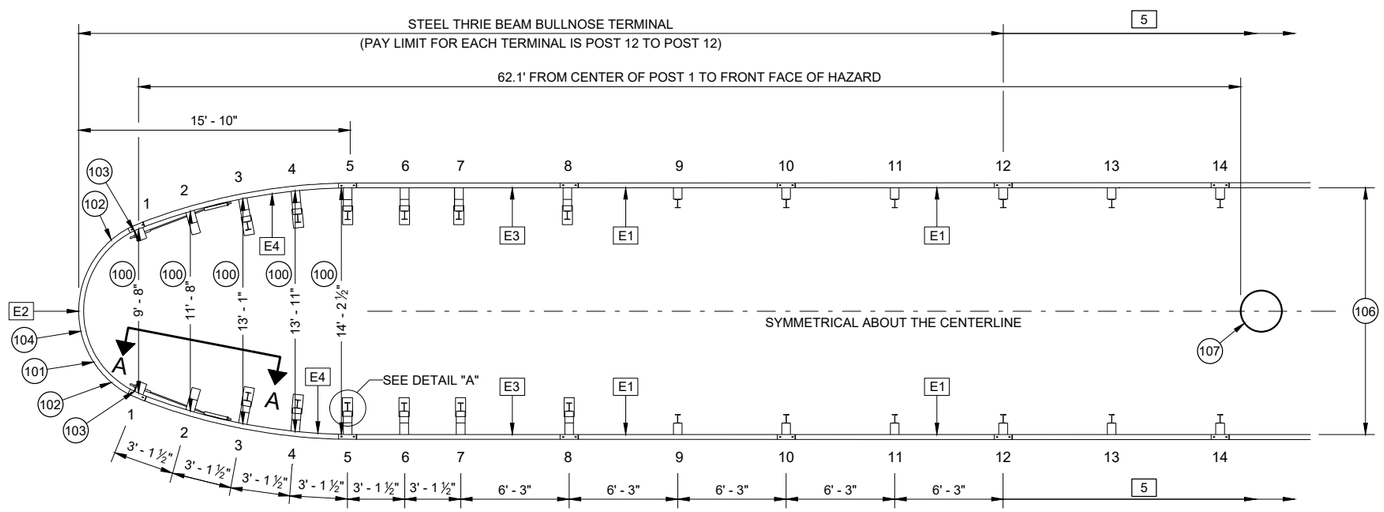
MEDIAN HAZARD PROTECTION PAY LIMITS



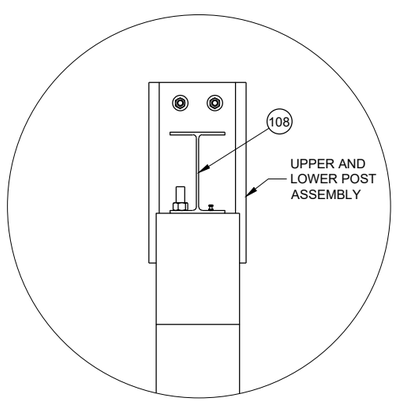
HAZARD FREE AREA
INSIDE BULLNOSE



LAPPING DETAIL



PLAN VIEW
TYPICAL BULLNOSE LAYOUT



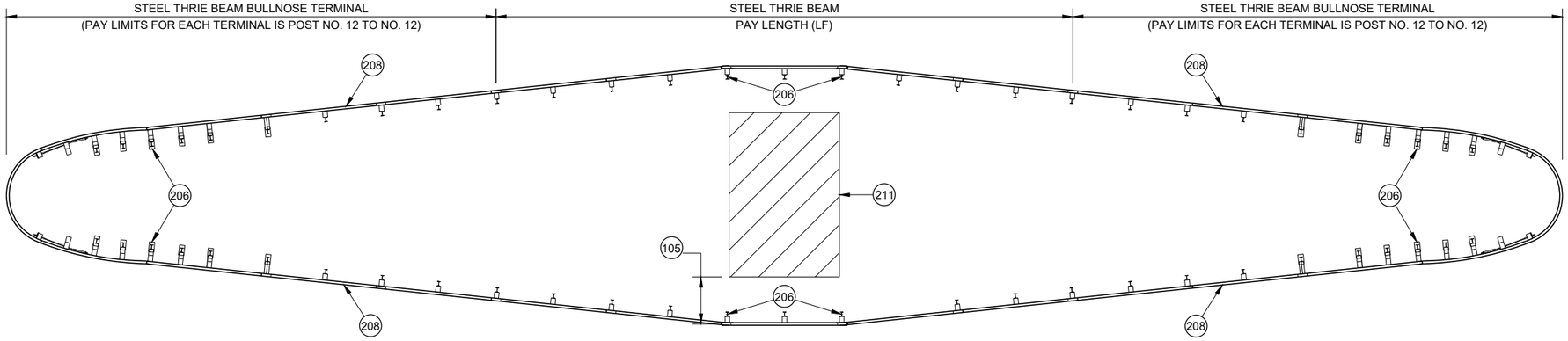
DETAIL "A"

STEEL THRIE BEAM
BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B26 - 04a



VARIABLE WIDTH BULLNOSE

GENERAL NOTES

200 6' - 3" ASYMMETRICAL 10-GAUGE W-BEAM TO THRIE BEAM GUARD TRANSITION. SEE SDD 14B45 FOR MORE INFORMATION.

201 W-BEAM RAIL. SEE SDD 14B42 FOR MORE INFORMATION.

202 SEE POST NO. 9 AND ALL STEEL THRIE BEAM POST BEYOND DETAIL.

203 SEE SDD 14B42 FOR INSTALLATION INFORMATION.

204 SEE SDD 14B45 FOR INSTALLATION DETAILS. REPLACE ASYMMETRICAL W-BEAM TO THRIE BEAM TRANSITION AND W-BEAM RAIL WITH E1. PAY FOR MODIFIED THRIE BEAM TRANSITION.

205 CONCRETE BARRIER OR BRIDGE RAIL.

206 SEE PLAN FOR STATION AND OFFSET TO CENTER OF POST.

207 SEE PLAN FOR STATION AND OFFSET TO CENTER OF SPLICE.

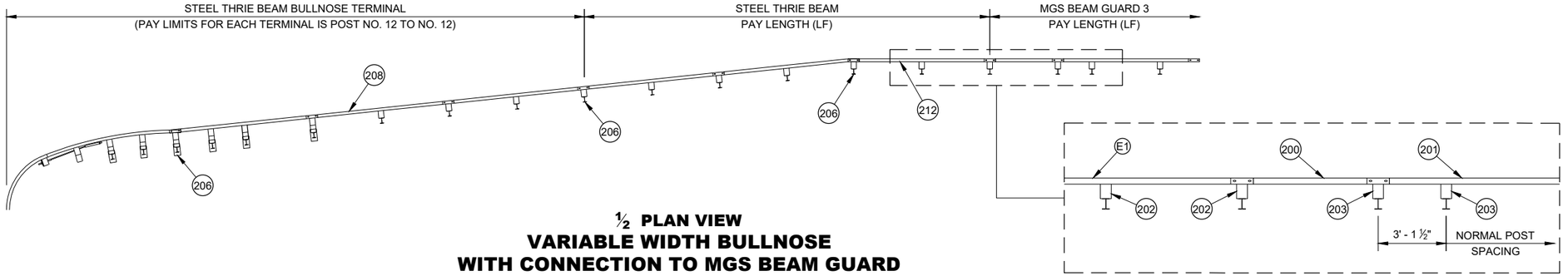
208 SEE PLAN FOR FLARE RATE.

209 A MINIMUM OF 25 FT OF THRIE BEAM TANGENT BEFORE TRANSITIONING TO BEAM GUARD OR THRIE BEAM TRANSITION.

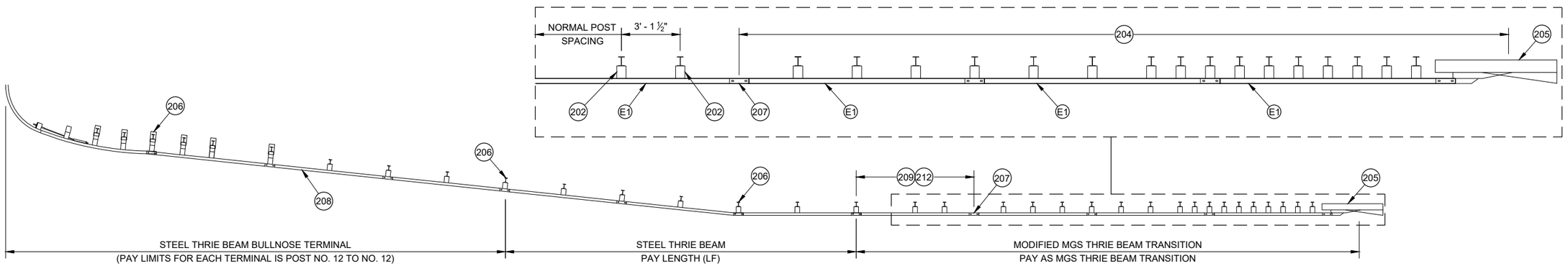
210 NOT ALL BULLNOSE HARDWARE SHOWN. SEE OTHER SHEETS IN 14B26.

211 WIDER HAZARD TO BE SHIELDED.

212 TRANSITION RAIL HEIGHT TO 31" OVER THE LENGTH OF A 12' - 6" BEAM SECTION.



½ PLAN VIEW
VARIABLE WIDTH BULLNOSE
WITH CONNECTION TO MGS BEAM GUARD



½ PLAN VIEW
VARIABLE WIDTH BULLNOSE
WITH CONNECTION TO RIGID BARRIER

STEEL THRIE BEAM BULLNOSE TERMINAL

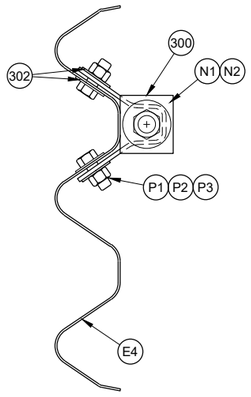
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA[illegible] 704

6

SDD 14B26 - 04b

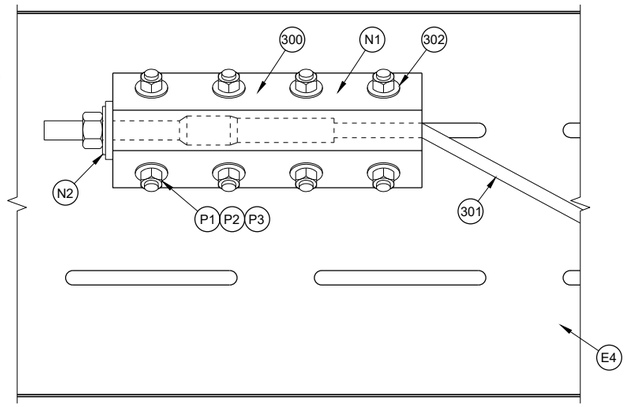
6

SDD 14B26 - 04b

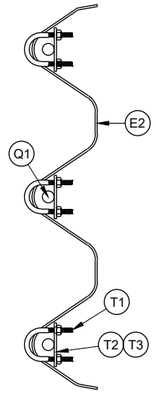


PROFILE VIEW

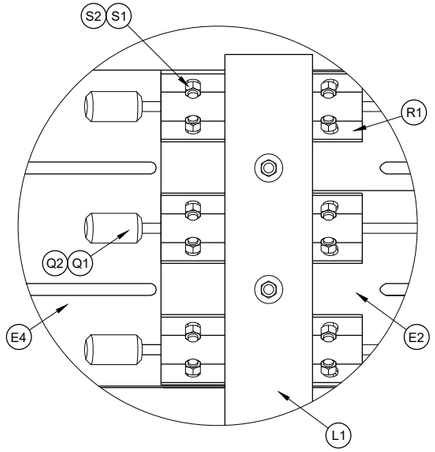
CABLE ANCHOR ASSEMBLY CONNECTION



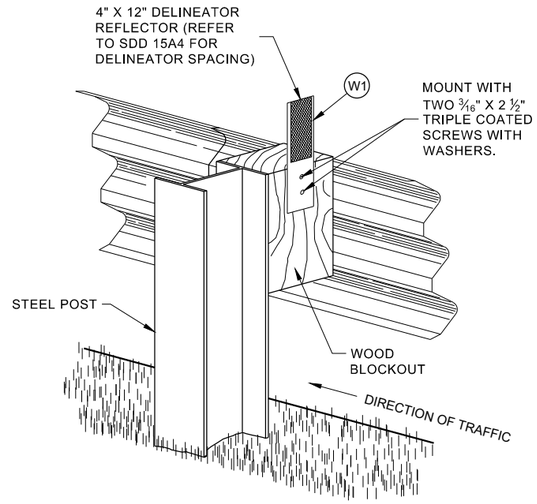
CABLE ANCHOR ASSEMBLY



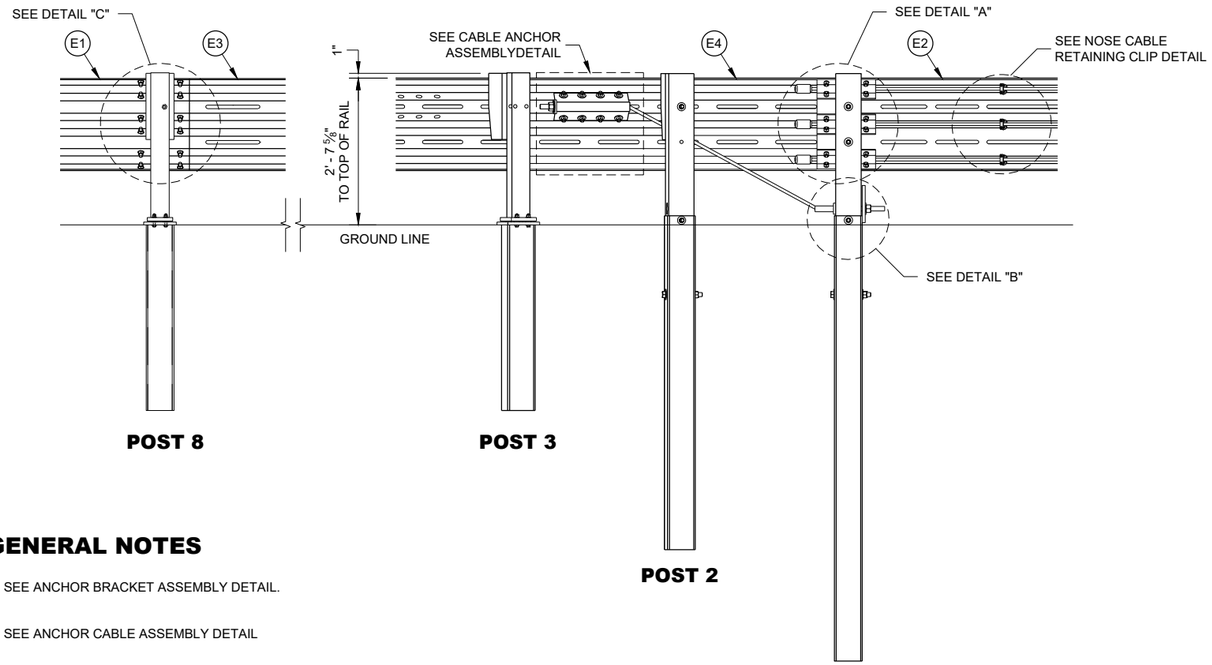
NOSE CABLE RETAINING CLIP



DETAIL "A"

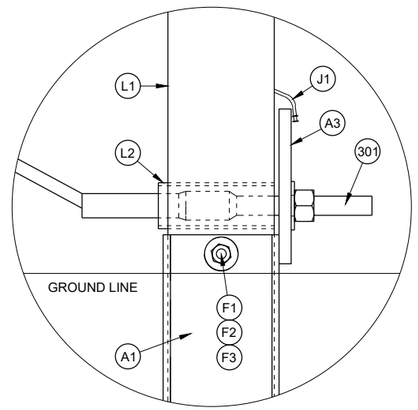


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

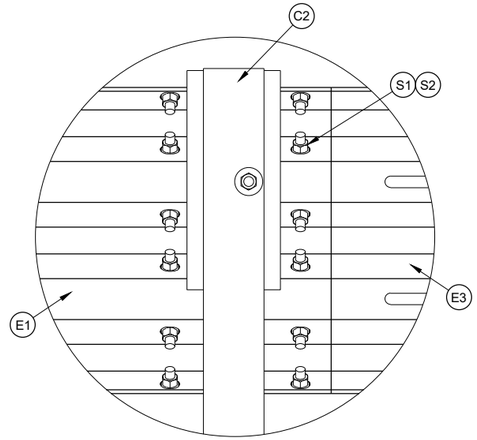


POST 8 **POST 3** **POST 2** **POST 1**

CROSS SECTION A - A



DETAIL "B"



DETAIL "C" THRIE BEAM SPLICE

GENERAL NOTES

(300) SEE ANCHOR BRACKET ASSEMBLY DETAIL.

(301) SEE ANCHOR CABLE ASSEMBLY DETAIL

(302) ONE WASHER BETWEEN BOLT HEAD AND RAIL AND BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

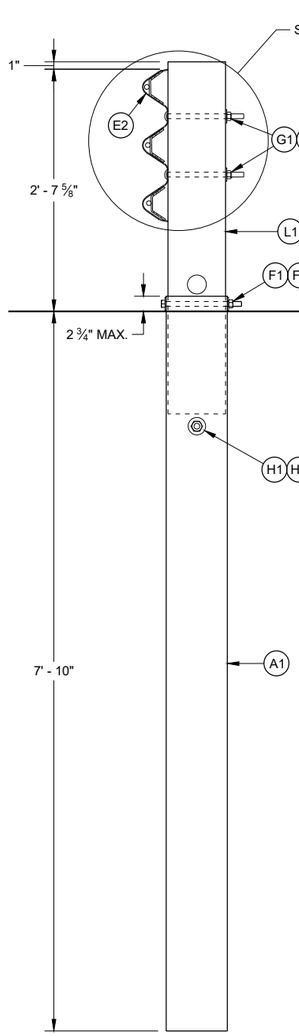
(303) ONE WASHER BETWEEN BOLD HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.

STEEL THRIE BEAM BULLNOSE TERMINAL

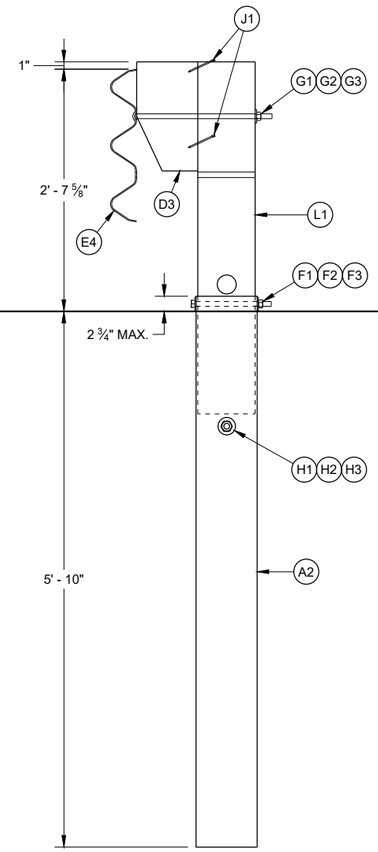
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

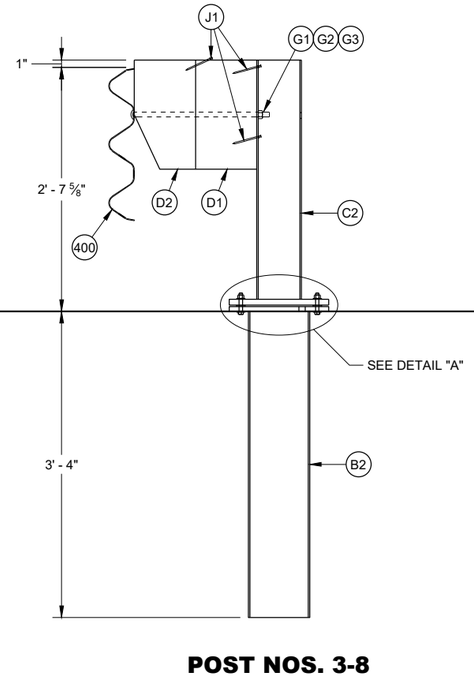
SDD 14B26 - 04c



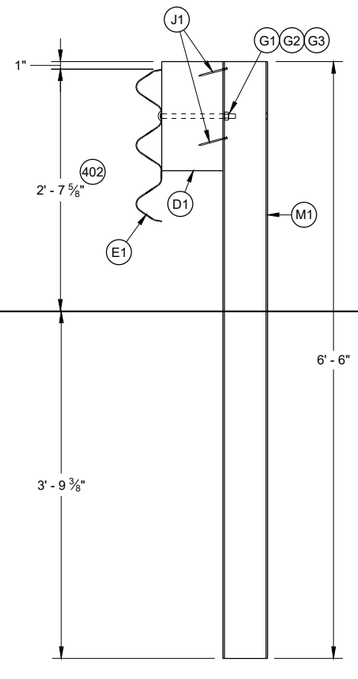
POST NO. 1



POST NO. 2



POST NOS. 3-8



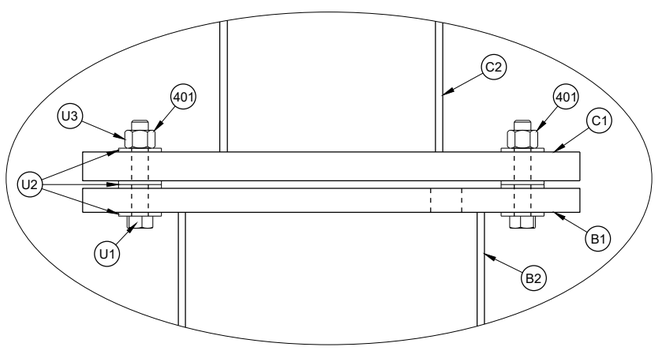
POST NOS. 9 AND ALL STEEL THRIE BEAM POSTS BEYOND

GENERAL NOTES

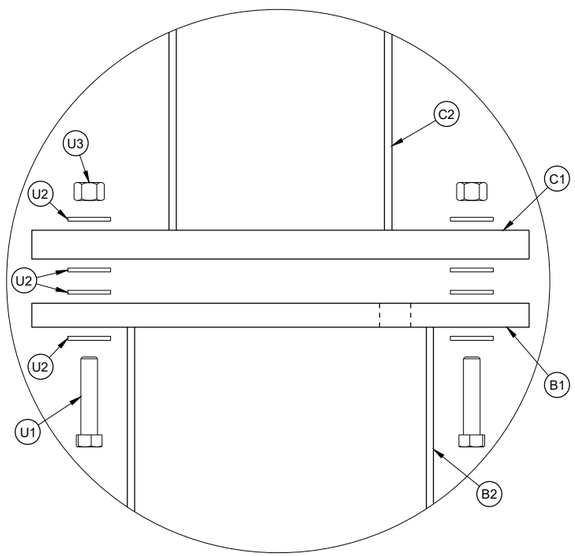
400 RAIL CAN BE E3 OR E4 DEPENDING ON POST LOCATION.

401 TORQUE BOLD BETWEEN 60-75 FT-LB

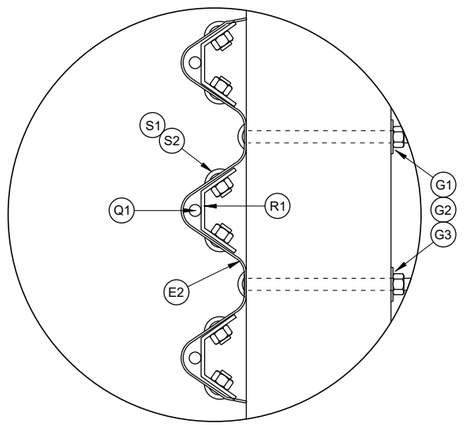
402 HEIGHT WILL VARY WITHIN HEIGHT TRANSITION TO OTHER HARDWARE. SEE NOTE 213, SHEET "b".



DETAIL "A"



EXPLODED VIEW
DETAIL "A"



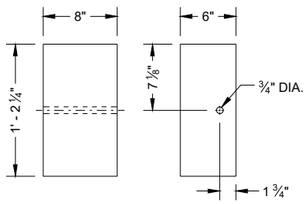
DETAIL "B"

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

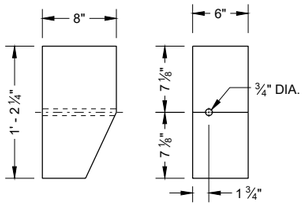
6

SDD 14B26 - 04d



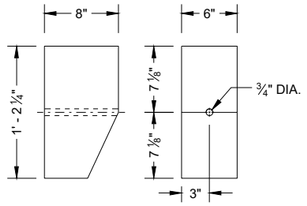
ELEVATION PROFILE

BLOCKOUT (D1)



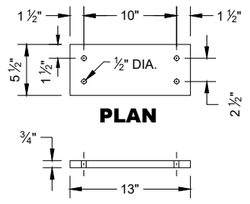
ELEVATION PROFILE

BLOCKOUT (D2)



ELEVATION PROFILE

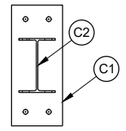
BLOCKOUT (D3)



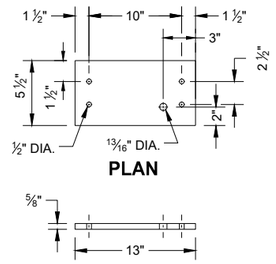
PLAN

PROFILE

UPPER SHEAR PLATE (C1)



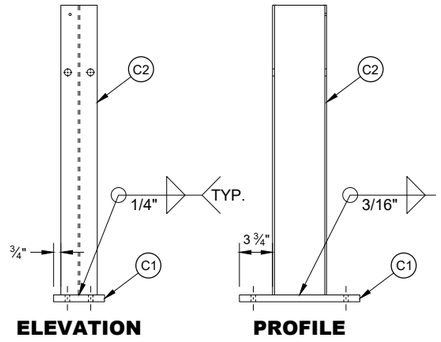
PLAN



PLAN

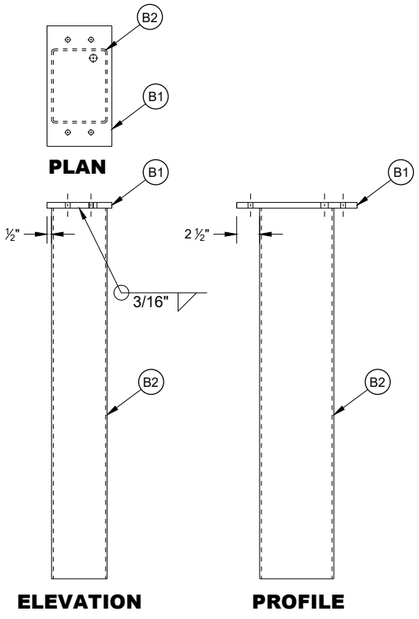
PROFILE

LOWER SHEAR PLATE (B1)



ELEVATION PROFILE

UPPER POST ASSEMBLY



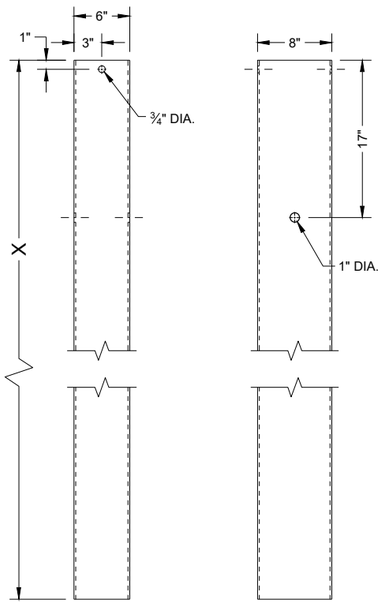
PLAN

ELEVATION PROFILE

LOWER POST ASSEMBLY

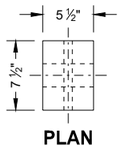
PLAN

PART	LENGTH "X"
A1	8' - 0"
A2	6' - 0"
B2	3' - 6"

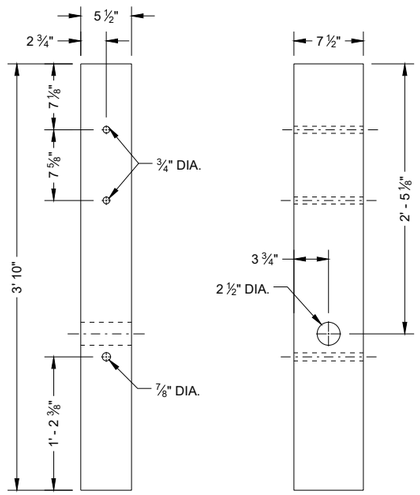


ELEVATION PROFILE

FOUNDATION TUBE

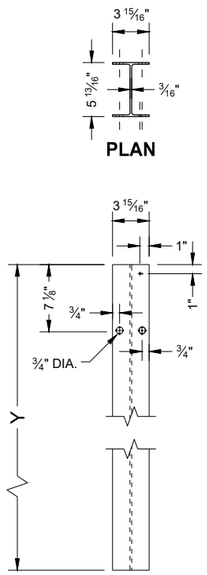


PLAN



ELEVATION PROFILE

BCT POST (L1)



PLAN

ELEVATION

POST

PART	LENGTH "Y"
M1	6' - 6"
M2	5' - 8 5/8"
C2	2' - 8 5/8"

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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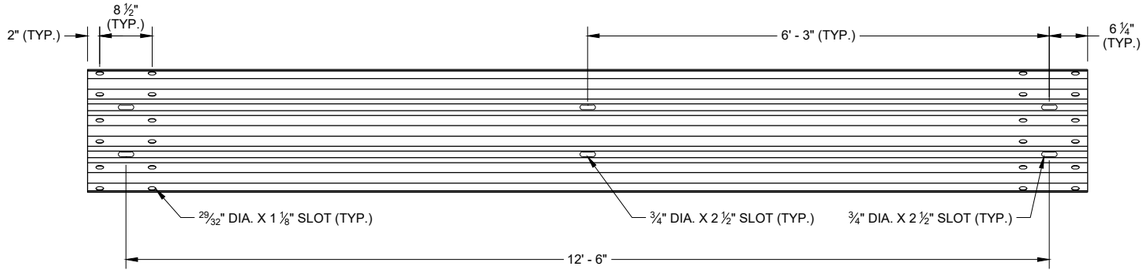
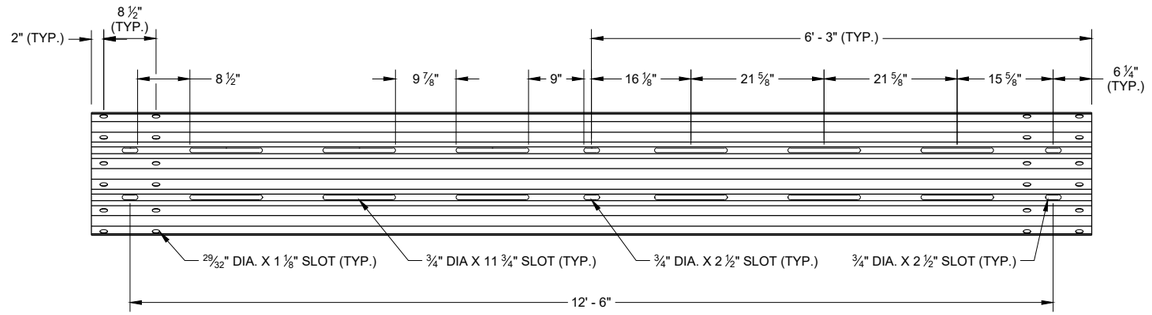
6

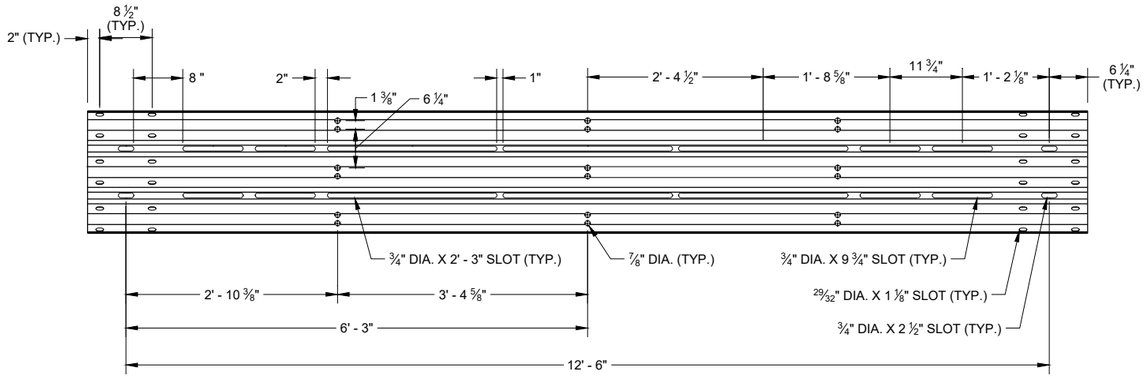
6



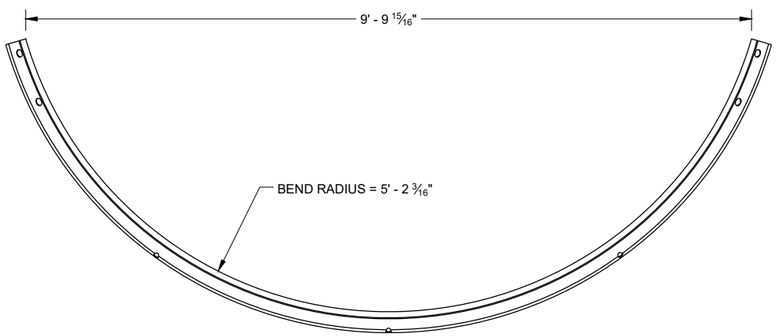
SLOTTED THRIE BEAM RAIL E1



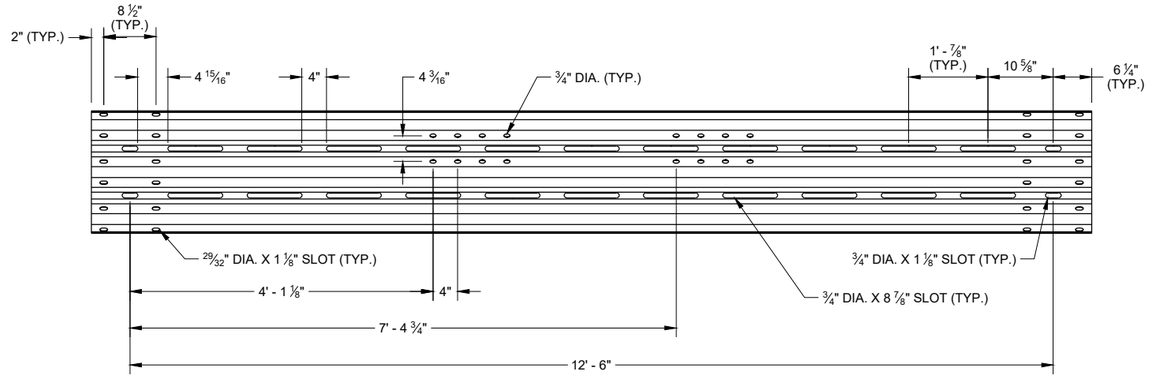
SLOTTED THRIE BEAM RAIL E3



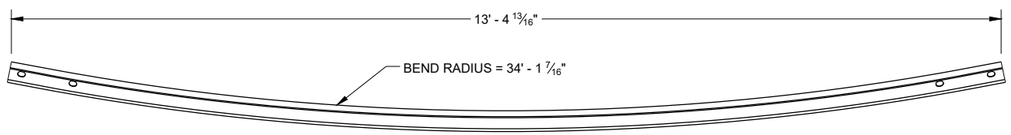
ELEVATION VIEW NON - RADIUSED
SLOTTED THRIE BEAM RAIL E2



PLAN VIEW
SLOTTED THRIE BEAM RAIL E2



ELEVATION VIEW NON - RADIUSED
SLOTTED THRIE BEAM RAIL E4



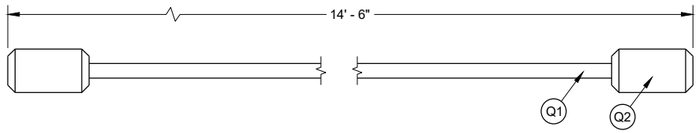
PLAN VIEW
SLOTTED THRIE BEAM RAIL E4

STEEL THRIE BEAM BULLNOSE TERMINAL

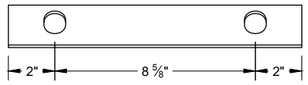
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

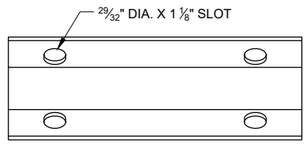
SDD 14B26 - 04f



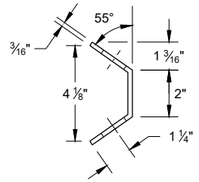
NOSE CABLE AND SWAGE BUTTON



PLAN VIEW

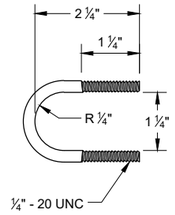


ELEVATION VIEW

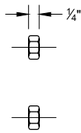


PROFILE VIEW

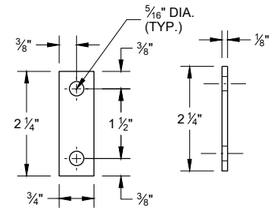
NOSE CABLE ANCHOR (R1)



U - BOLT (T1)

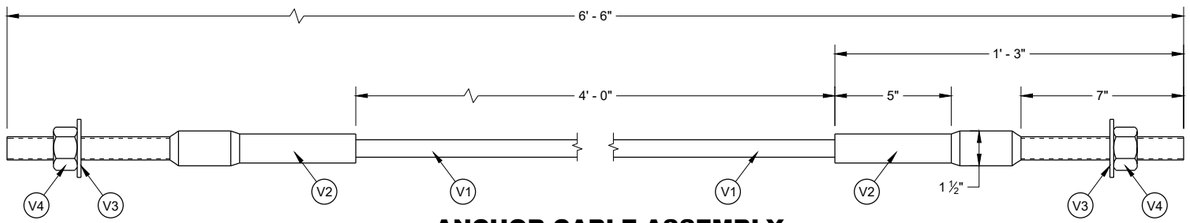


U - BOLT NUT (T3)

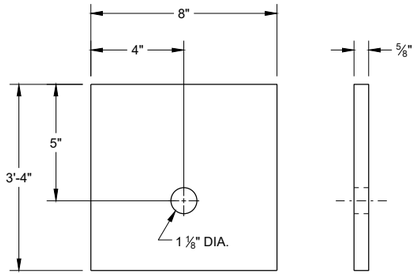


ELEVATION VIEW **PROFILE VIEW**

U - BOLT PLATE WASHER (T2)

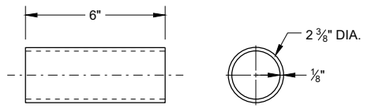


ANCHOR CABLE ASSEMBLY



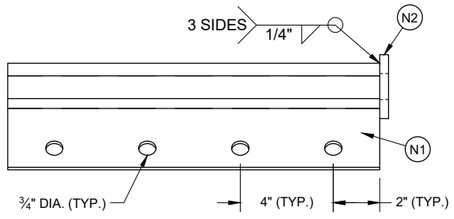
ELEVATION VIEW **PROFILE VIEW**

BCT BEARING PLATE (A3)

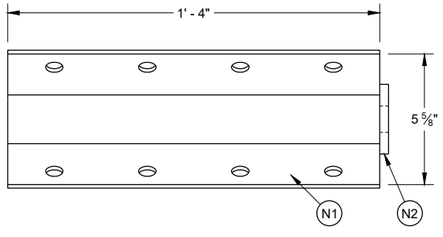


ELEVATION VIEW **PROFILE VIEW**

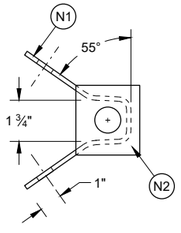
BCT POST SLEEVE (L2)



PLAN VIEW

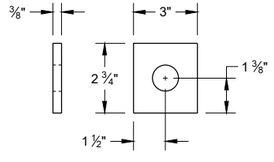


ELEVATION VIEW



PROFILE VIEW

ANCHOR BRACKET ASSEMBLY (N1)



ANCHOR BRACKET END PLATE (N2)

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B26 - 04g

BILL OF MATERIALS LIST

PART NUMBER	DESCRIPTION	MATERIAL SPECIFICATION
A1	LONG FOUNDATION TUBE	AASHTO M111/ASTM A123 ASTM A500 GRADE B OR ASTM A-501
A2	FOUNDATION TUBE	AASHTO M111/ASTM A123 ASTM A500 GRADE B OR ASTM A-501
A3	BEARING PLATE AT POST	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
B1	LOWER SLIP POST ASSEMBLY - PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
B2	LOWER SLIP POST ASSEMBLY - TUBE	AASHTO M111/ASTM A123 ASTM A500 GRADE B OR ASTM A-501
C1	UPPER SLIP POST ASSEMBLY - PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
C2	UPPER SLIP POST ASSEMBLY - POST	AASHTO M111/ASTM A123 ASTM A6 W6X9 OR W6X8.5 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
D1	BLOCK FOR STEEL POST - WOOD	WISDOT SPEC. 614
D2	TAPERED BLOCK FOR STEEL POST - WOOD	WISDOT SPEC. 614
D3	TAPERED BLOCK FOR BCT POST - WOOD	WISDOT SPEC. 614
E1	THRIE BEAM RAIL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER
E2	THRIE BEAM RAIL - SHOP BENT AND PUNCHED	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER. INDICATE RADIUS BEAM GUARD IS BENT TO ON THE BACKSIDE OF RAIL. FOLLOW AASHTO M180. MARK RADIUS.
E3	THRIE BEAM RAIL - PUNCHED	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER
E4	THRIE BEAM RAIL - SHOP BENT AND PUNCHED	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER. INDICATE RADIUS BEAM GUARD IS BENT TO ON THE BACKSIDE OF RAIL. FOLLOW AASHTO M180. MARK RADIUS.
F1	5/8" DIA. HEX HEAD GROUND STRUT AND YOKE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36
F2	5/8" DIA. GROUND STRUT AND YOKE BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)
F3	GROUND STRUT AND YOKE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
G1	5/8 " DIA. POST BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER TYPICALLY USED WITH STEEL POSTS) OR ASTM F844 (UNHARDENED WASHER TYPICALLY USED WITH WOOD)
G2	POST BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER TYPICALLY USED WITH STEEL POSTS) OR ASTM F844 (UNHARDENED WASHER TYPICALLY USED WITH WOOD)
G3	POST BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
H1	7/8" DIA. SOIL TUBE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD 7/8" ASTM A563DH OR SAE J995 GRADE 5
H2	SOIL TUBE BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 7/8" ASTM F844 TYPE 1 (HARDEN WASHER ONLY)
H3	SOIL TUBE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD 7/8" ASTM A563DH OR SAE J995 GRADE 5
J1	16D DOUBLE HEAD NAIL	ASTM A153 HOT DIPPED CLASS D DOUBLE HEAD ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)
L1	BCT TIMBER POST	WISDOT SPEC. 614 S4S FINISH ON 4 SIDE
L2	BCT POST SLEEVE	AASHTO M111/ASTM A123 2 3/8" OD ASTM 53 GRADE B
M1	W6X8.5 OR W6X9 STEEL POST	AASHTO M111/ASTM A123 ASTM A6 W6X9 OR W6X8.5 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
M2	W6X8.5 OR W6X9 STEEL POST	AASHTO M111/ASTM A123 ASTM A6 W6X9 OR W6X8.5 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
N1	ANCHOR BRACKET	AASHTO M111/ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
N2	ANCHOR BRACKET - BEARING PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI

PART NUMBER	DESCRIPTION	MATERIAL SPECIFICATION
P1	5/8" DIA. ANCHOR BRACKET BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD 5/8" ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36
P2	ANCHOR BRACKET BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)
P3	SOIL TUBE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
Q1	5/8" DIA. NOSE CABLE	6X19 AASTHO M30 / ASTM A741 XIPS INDEPENDENT WIRE CORE (IWRC) PR 6X25 XIPS, IWRC NOMINAL BREAKING STRENGTH OF 41.2 KIPS.
Q2	NOSE CABLE-SWAGE BUTTON	COLD TUFF BUTTON, S-409 SIZE NO. 12 STOCK NUMBER 1040395 OR ANY OTHER SIMILAR SIZED WAGED-GRIP-BUTTON FERRULES. ASTM A576 GRADE 1035 SWAGE FITTING ARE TO BE FIELD SWAGED PER MANUFACTURERS RECOMMENDATION. NOMINAL BREAKING STRENGTH OF 41.2 KIPS.
R1	NOSE CABLE ANCHOR BRACKET	AASHTO M111/ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
S1	5/8" DIA. SPLICE BOLT - BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36
S2	SPLICE - BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD 5/8" ASTM A563DH OR SAE J995 GRADE 5
T1	1/4" DIA. NOSE CABLE - U BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36
T2	U-BOLT - PLATE WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)
T3	U-BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
U1	7/16" DIA. SLIP POST ASSEMBLY - BREAKAWAY BOLT	ASTM A153 OR B695 CLASS 55 OR F2329 UNC FULLY THREADED HEX HEAD TAP BOLT ASTM A449 OR SAE J429 GRADE 5
U2	7/16" DIA. SLIP POST ASSEBLY - BREAKAWAY BOLT - WASHER	ASTM F436 TYPE I (HARDEN TYPICALLY USED WITH STEEL) GALV. AASHTO M111/ASTM A 123 OR GALV. HOT DIP. TO POST BOLT CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 55, F2329
U3	SLIP POST ASSEBLY - BREAKAWAY BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / STM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
V1	¾" DIA. BCT CABLE	AASHTO M30 / ASTM A741 6X19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS), 6X19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS) TYPE II OR IIC, CLASS C ZINC COATED MIN BREAKING STRENGTH OF 42.7 KIPS
V2	ANCHOR CABLE-SWAGE FITTING	UNC ASTM A576 GRADE 1035 SWAGE FITTING ARE TO BE FACTORY SWAGED. MIN. BREAKING STRENGTH OF 42.7 KIPS. ASME B30.26 "FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING IN TO CONNECTION: NAME OF MANUFACTURE OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE FOR ALLOY EYEBOLTS."
V3	1" DIA. ANCHOR CABLE-WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)
V4	1" DIA. ANCHOR CABLE-NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
W1	REFLECTOR	SEE SDD 15A4

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SDD 14B26 - 04h

SDD 14B26 - 04h

STEEL THRIE BEAM BULLNOSE TERMINAL

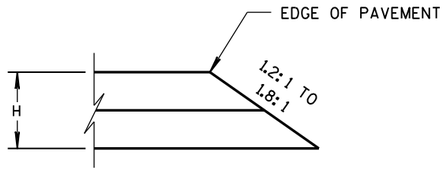
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

August 2020
DATE

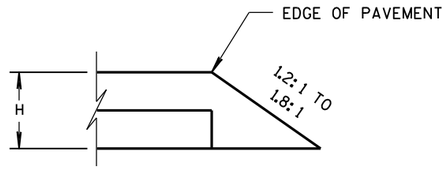
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA



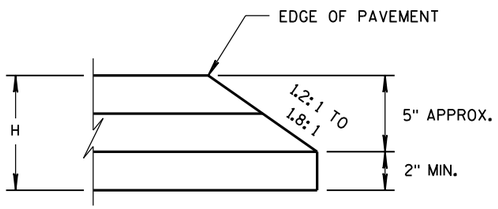
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



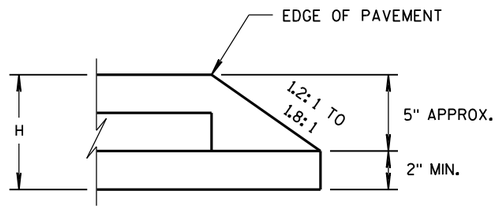
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

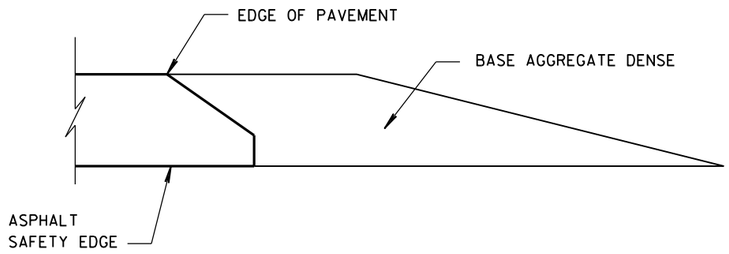
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

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S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

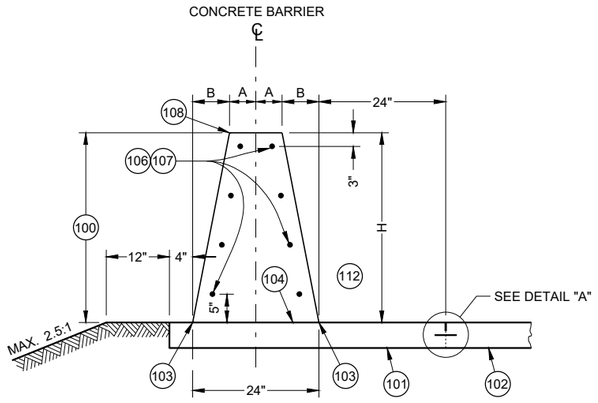
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

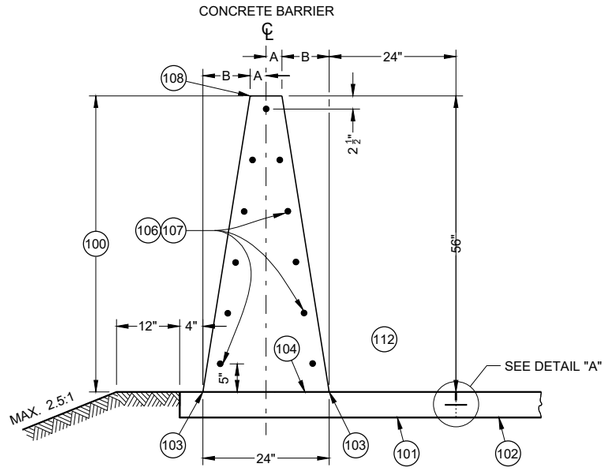
11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



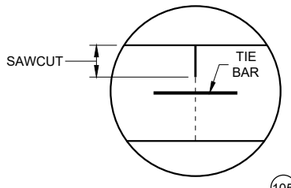
32 - INCH, 36 - INCH OR 42 - INCH SINGLE SLOPE CONCRETE BARRIER
(TYPE S32, TYPE S36, TYPE S42)



56 - INCH SINGLE SLOPE CONCRETE BARRIER
(TYPE S56)

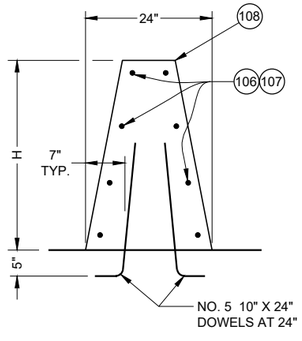
TABLE "A"

BARRIER HEIGHT H INCHES	A INCHES	B INCHES	NUMBER OF NO. 5 BARS EACH
32	7	5	8
36	6 ¼	5 ¾	8
42	5 ¼	6 ¾	10
56	3	9	11

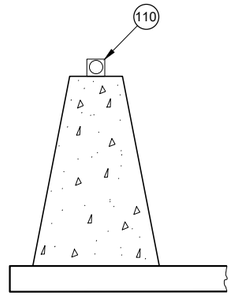


105 109 111

DETAIL "A"



SINGLE SLOPE CONCRETE BARRIER ON BRIDGE
(NON OUTER PARAPET APPLICATION)



DELINEATION

GENERAL NOTES

WHERE THE CONCRETE BARRIER IS ADDED TO THE FACE OF EXISTING CONCRETE STRUCTURE, MATCH EXISTING WEEP HOLES.

LOCATE EXPANSION JOINTS IN CONCRETE BARRIER SHALL AT ALL DECK AND PRINCIPAL WALL JOINTS. FILL EXPANSION JOINT WITH EXPANSION JOINT MATERIAL. SEAL THE EXPANSION JOINT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

PLACE BARRIER PERPENDICULAR TO SHOULDER GRADE, UNLESS INDICATED IN PLAN.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATION 501.

2" CLEAR COVER TYPICAL

ANCHORS ARE REQUIRED AT CONCRETE BARRIER ENDS AND AT INTERRUPTIONS IN CONCRETE BARRIER. ANCHOR MAY BE AS SHOWN IN THIS SDD OR DETAIL SHOWN ON SDD 14B33. ANCHORS INCIDENTAL TO CBSS.

PROVIDE A 1" DEEP CONTRACTION JOINT IN BARRIER PAD AND BARRIER. JOINT IS TO MATCH ADJACENT CONCRETE JOINTS. NO DOWEL BARS ARE REQUIRED FOR BARRIER PAD. IF ADJACENT TO ASPHALT, CONTRACTION JOINT IS REQUIRED EVERY 15'.

ALL REBAR SHALL BE EPOXY COATED M31 TYPE S. SEE STANDARD SPECIFICATION 505.

CONCRETE BARRIER, UPPER CONCRETE BARRIER, LOWER CONCRETE BARRIER, CONCRETE BARRIER PAD, AND FOOTINGS ARE TERMS USED TO DESCRIBE PARTS OF SINGLE SLOPE CONCRETE BARRIER BID ITEMS. THESE PARTS ARE INCIDENTAL TO THE SINGLE SLOPE CONCRETE BARRIER BID ITEMS.

(100) CONCRETE BARRIER

(101) CONCRETE BARRIER PAD

(102) PAVEMENT

(103) WHERE VERTICAL ROADWAY OFFSET IS GREATER THAN 1 ½", USE TYPE A SINGLE SLOPE BARRIER.

(104) OPTIONAL CONSTRUCTION JOINT.

(105) CONSTRUCTION JOINTS MAY BE ELIMINATED WHEN CONCRETE SHOULDER IS LESS THAT 10'.

(106) STAGGER LAPPING OF LONGITUDINAL STEEL. MINIMUM OVERLAP OF STEEL IS 2' BARS AT LAPS TO BE FIRMLY TIED OR CONNECTED.

(107) NO. 5 CONTINUOUS BARS EVENLY SPACED (SEE TABLE "A").

(108) USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.

(109) CONCRETE BARRIER PAD UNDER CBSS MAY BE PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED ⅓ DEPTH. CONCRETE BARRIER PAD AND SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. CONCRETE BARRIER PAD MINIMUM DEPTH IS 6", OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.

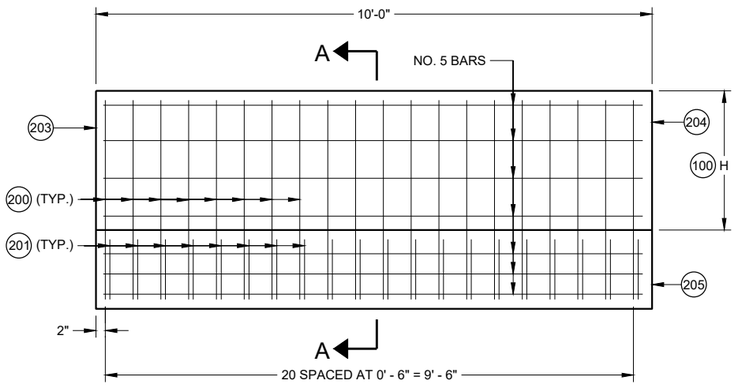
(110) SEE SDD 15A04 FOR DELINEATOR DETAILS AND SPACING.

(111) SEE SDD 13C01 FOR DETAILS TYPING CONCRETE BARRIER TO ADJACENT CONCRETE

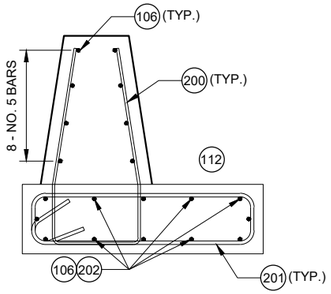
(112) TRAFFIC SIDE

CONCRETE BARRIER SINGLE SLOPE (CBSS)

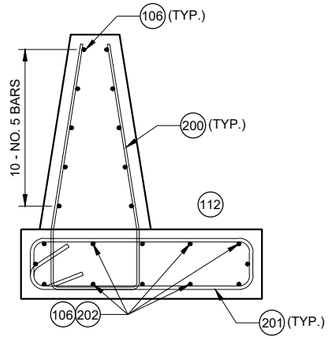
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



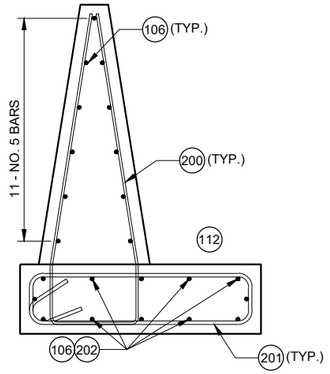
END ANCHOR SINGLE SLOPE CONCRETE BARRIER



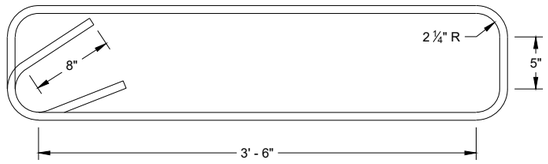
32" AND 36" CBSS



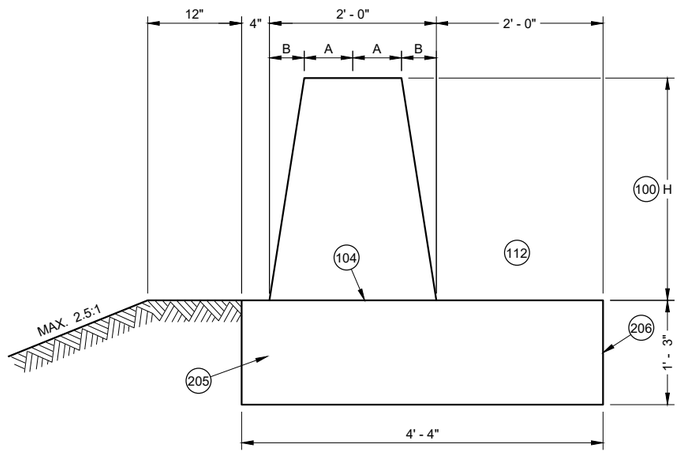
42" CBSS



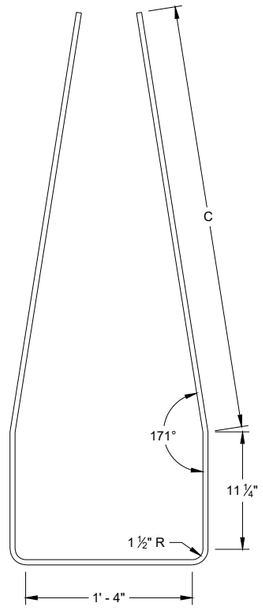
56" CBSS



STIRRUP BAR BENDING DETAIL



SECTION A - A



V1 BAR BENDING DETAIL

TABLE "B"

BARRIER HEIGHT H INCHES	C INCHES
32	2' - 6"
36	2' - 11"
42	3' - 4"
56	4' - 6 ½"

GENERAL NOTES

200 V1 BARS ARE NO. 5 BARS. (SEE BAR BENDING DETAIL)

201 STIRRUPS ARE NO. 6 BARS. (SEE BAR BENDING DETAIL)

202 TWELVE (12) NO. 5 BARS EVENLY SPACED

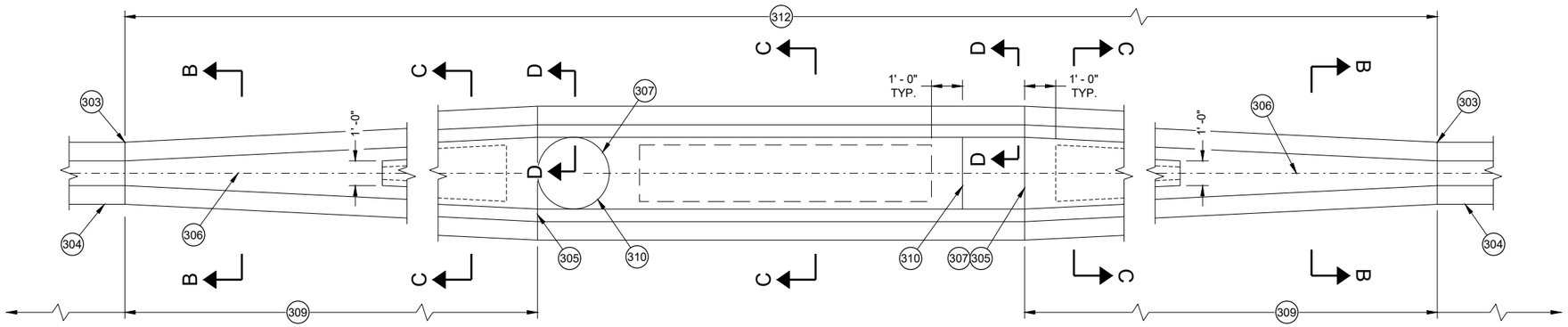
203 END OF INSTALLATION OR EXPANSION JOINT.

204 SEE COLD JOINT DETAIL TO CONNECT END ANCHOR SINGLE SLOPE CONCRETE BARRIER TO SINGLE SLOPE CONCRETE BARRIER.

205 FOOTING

206 DO NOT TIE TO FOOTING TO ADJACENT PAVEMENT.

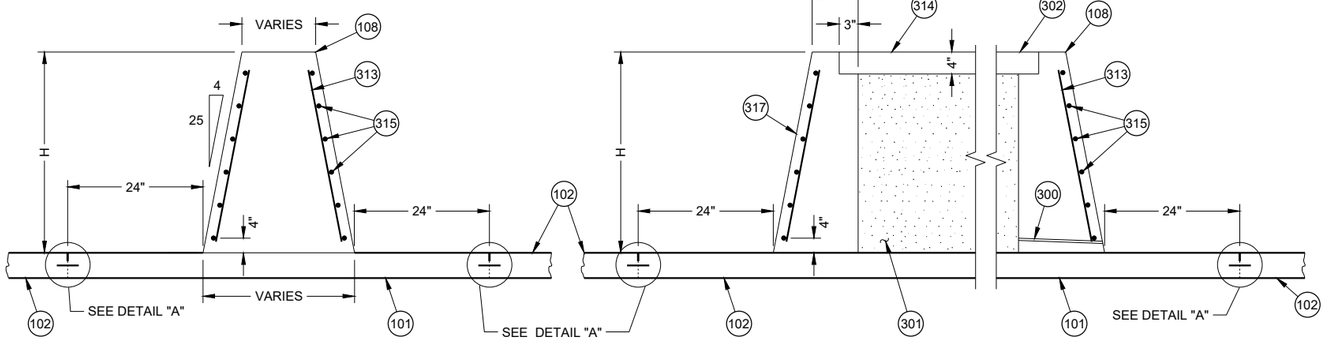
CONCRETE BARRIER SINGLE SLOPE (CBSS)



LARGE FIXED OBJECTS PROTECTION
(TYPE S32, TYPE S36, TYPE S42, TYPE S56)

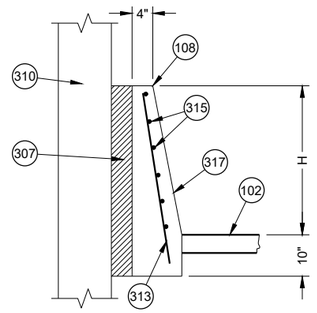
TABLE "C"

BARRIER HEIGHT H INCHES	BAR SIZE	NUMBER OF BARS EACH
32	4	6
36	4	6
42	5	6
56	5	6

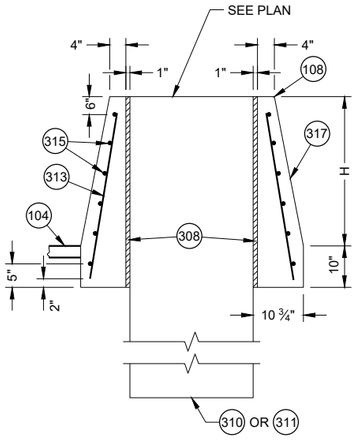


SECTION B - B

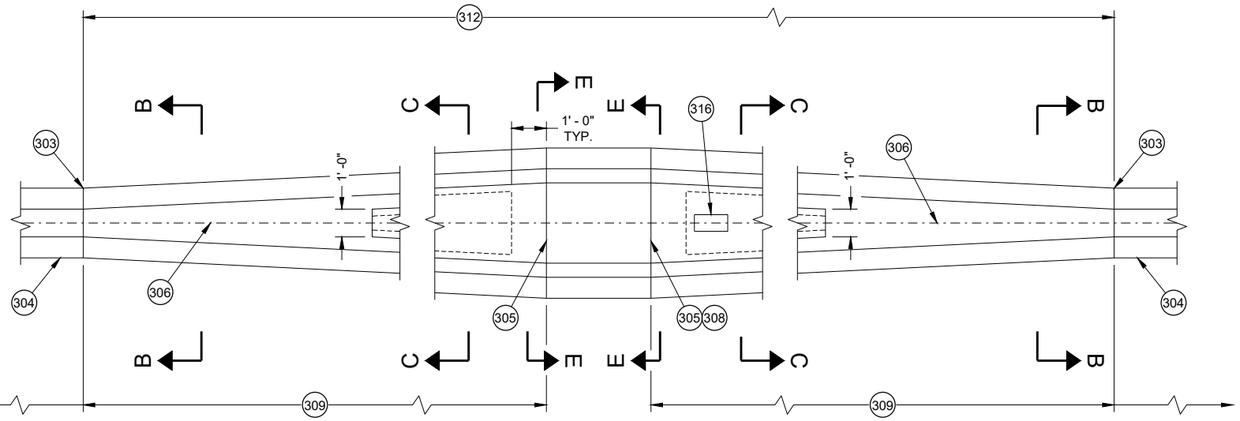
SECTION C - C



SECTION D - D



SECTION E - E



SMALL FIXED OBJECTS PROTECTION
(TYPE S32, TYPE S36, TYPE S42, TYPE S56)

GENERAL NOTES

(300) INSTALL 1 INCH DIAMETER DRAIN PIPE EVERY 20 FEET OF CROSS SECTION B -B. MINIMUM ONE DRAIN CAVITY.

(301) BETWEEN CONCRETE BARRIER WALLS FILL WITH FOUNDATION BACKFILL.

(302) LEVEL THE TOP OF CONCRETE BARRIER CAP ACROSS TOP OF BARRIER. ADJUST HEIGHT OF CONCRETE BARRIER WALL ON LOW SIDE OF OFFSET OR SUPERELEVATED ROADWAYS TO PROVIDE LEVEL GRADE ACROSS TOP OF CONCRETE CAP.

(303) USE COLD JOINTS BETWEEN FIXED OBJECT PROTECTION AND CONCRETE BARRIER ANCHOR.

(304) INSTALL END ANCHOR SINGLE SLOPE CONCRETE BARRIER.

(305) SEE COLD JOINT DETAIL

(306) CENTERLINE OF CONCRETE BARRIER.

(307) INSTALL 4" EXPANDED POLYSTYRENE BETWEEN COLUMN AND CONCRETE BARRIER.

(308) INSTALL 1" EXPANDED POLYSTYRENE BETWEEN PEDESTAL AND CONCRETE BARRIER.

(309) 20:1 MIN. TRANSITION.

(310) COLUMN

(311) PEDESTAL

(312) LIMITS OF PAYMENT FOR LARGE FIXED OBJECT PROTECTION (SEE PLAN)

(313) NO. 4 BARS SPACED 12" CENTER TO CENTER (TYP.)

(314) USE NO. 3 BAR SPACED 12 INCHES CENTER TO CENTER (PLACED IN EACH DIRECTION) OR EQUIVALENT WIRE MESH.

(315) SEE TABLE "C" FOR BAR INFORMATION

(316) ELECTRICAL PULL BOX FOR SIGN FLUSH WITH TOP OF CONCRETE BARRIER.

(317) VARIABLE SLOPE

CONCRETE BARRIER SINGLE SLOPE (CBSS)

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GENERAL NOTES

(400) END ANCHOR SINGLE SLOPE CONCRETE BARRIER.

(401) PARAPET, SIGN BRIDGE BASE, LIGHT POLE BASE OR OTHER OBJECT SINGLE SLOPE CONCRETE BARRIER CANNOT TIE INTO.

(402) JOINT SEAL CONFORMING TO STANDARD SPECIFICATION 415.2.6

(403) EXPANSION JOINT MATERIAL.

(404) INLET (SEE PLAN)

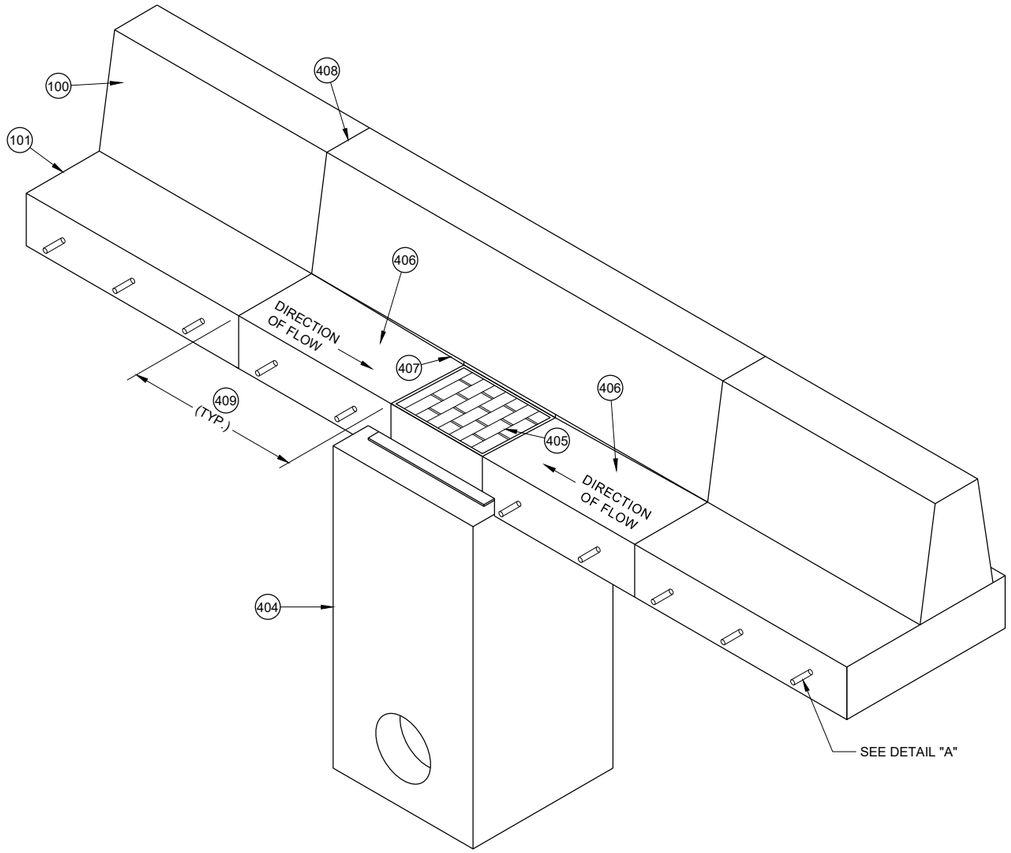
(405) INLET COVER BW (SEE PLAN)

(406) WARP PAN TO MATCH INLET COVER.

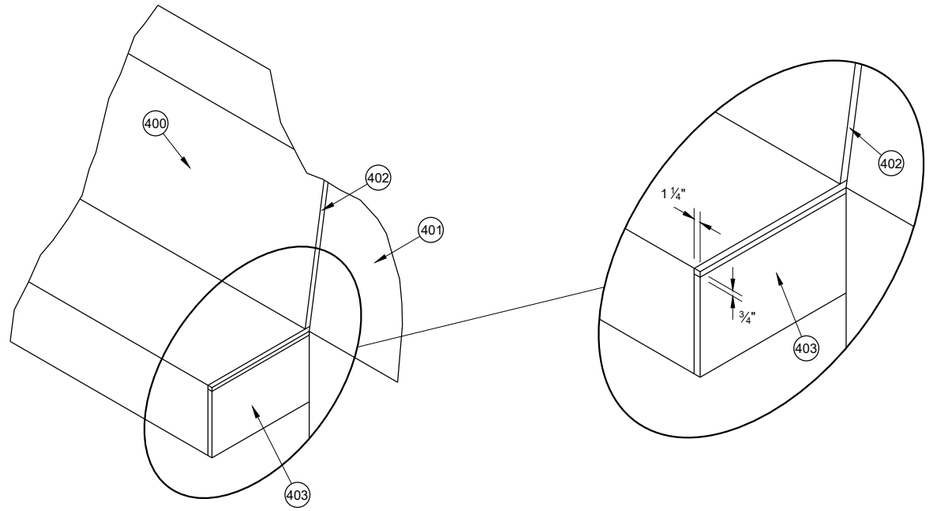
(407) EXTEND BARRIER SLOPE TO INLET. SEE PLAN FOR THE LENGTH OF EXTENSION.

(408) CONTRACTION JOINT.

(409) 3' (TYP.)



DRAINAGE DETAIL



EXPANSION JOINT DETAIL

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CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
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GENERAL NOTES

USE COLD JOINT TO CONNECT MULTIPLE HEIGHT TRANSITIONS.

(500) SEE TABLE "A" FOR DIMENSIONS

(501) SEE TABLE "D"

(502) MULTIPLE HEIGHT TRANSITION MAY BE USED IN SEQUENCE TO GET APPROPRIATE HEIGHT.

(503) COLD JOINT

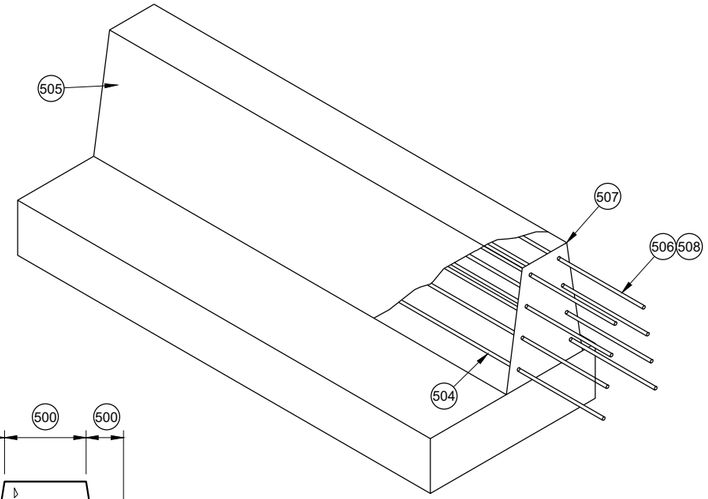
(504) BARRIER REBAR (SEE OTHER DETAILS FOR BAR SIZE, QUANTITY AND LOCATION).

(505) SINGLE SLOPE BARRIER SHOWN. SIMILAR DETAIL CAN BE USED FOR COLD JOINT IN END ANCHORS AND TRANSITIONS.

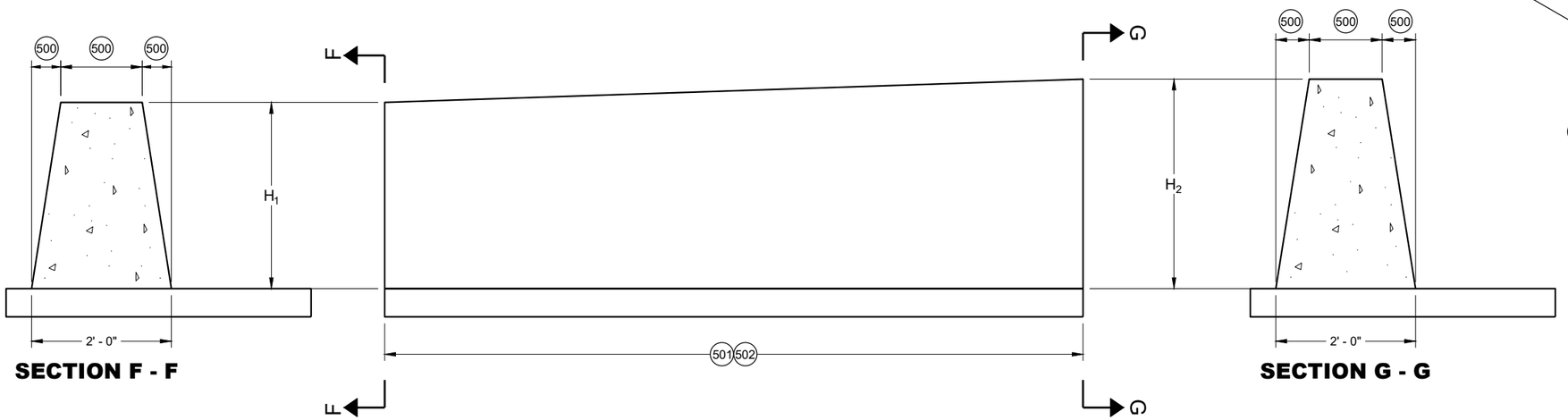
(506) NO. 5 REBAR FOR SPLICE. 3' OF SPLICE REBAR IS LAPPED AND TIED TO BARRIER REBAR. EXTEND 3' OF SPLICE REBAR BEYOND END OF POUR. ALL BARS ARE FIRMLY TIED OR CONNECTED. EVERY REBAR IN THE BARRIER SECTION REQUIRES A SPLICE BAR.

(507) END OF POUR.

(508) LAP AND TIE 3' OF NEXT POUR'S REBAR TO SPLICE REBAR.



COLD JOINT DETAIL



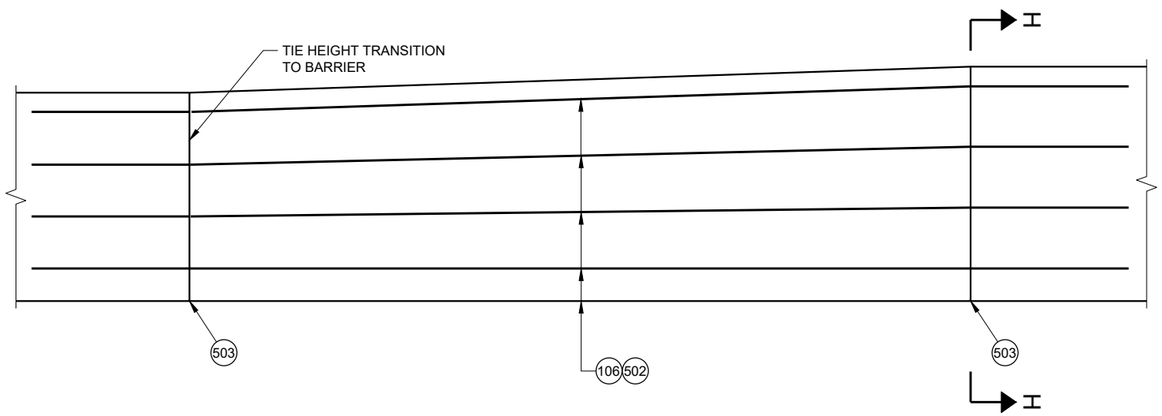
SECTION F - F

SECTION G - G

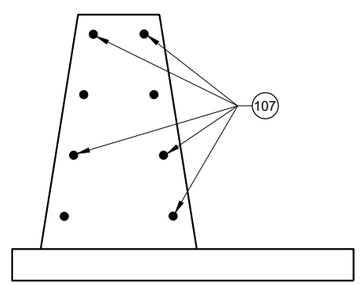
DOUBLE COLD JOINT HEIGHT TRANSITION

TABLE "D"

H_1	H_2	L	NUMBER OF NO. 5 BARS
32"	36"	10' - 0"	8
36"	42"	10' - 6"	10
42"	56"	24' - 6"	11



STEEL REINFORCEMENT DETAIL



SECTION H - H

CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
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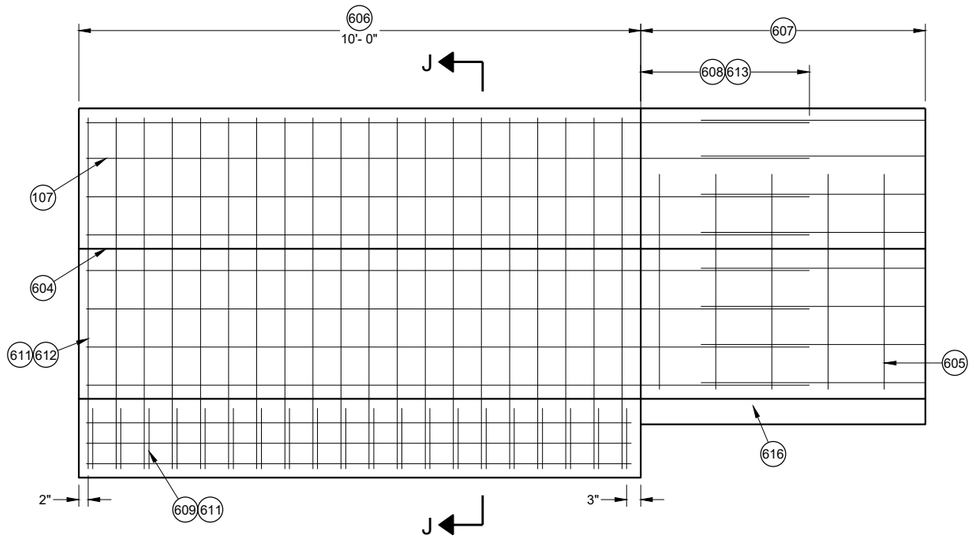
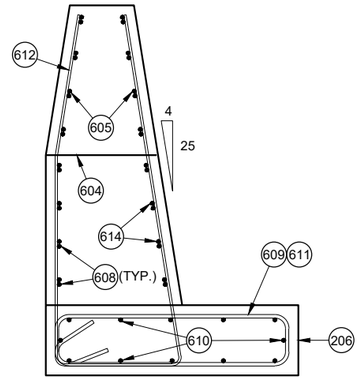


END ANCHOR MEDIAN BARRIER AND RETAINING WALL



SECTION J - J
END ANCHOR AND MEDIAN WALL END ANCHOR REINFORCEMENT DETAIL

GENERAL NOTES

600 UPPER CONCRETE BARRIER

601 LOWER CONCRETE BARRIER

602 MAX HEIGHT 36".

603 VERTICAL OFFSET FROM TOP ROADWAY SURFACES

604 OPTIONAL CONSTRUCTION JOINT WHEN HEIGHT IS GREATER THAN 1 ½".

605 NO. 4 BARRIER LOOP BARS ARE NOT REQUIRED FOR ROADWAY OFFSETS ARE LESS THAN 1'- 0", EXCEPT WHEN USED IN ANCHORS. BARRIER LOOP BARS ARE SPACED 12" CENTER TO CENTER OUTSIDE OF MEDIAN BARRIER AND RETAINING WALL END ANCHOR.

606 SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL ANCHOR

607 SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL (SEE OTHER DETAILS)

608 NO. 5 REBAR 3' OF LAP OF LONGITUDINAL STEEL.

609 NO. 6 REBAR END ANCHOR FOOTING LOOP

610 TWELVE (12) NO. 5 BARS EVENLY SPACED.

611 SS ANCHOR END LOOP AND END ANCHOR FOOTING LOOP ARE SPACED 6" CENTER TO CENTER.

612 END ANCHOR LOOP BAR IS NO. 5 REBAR.

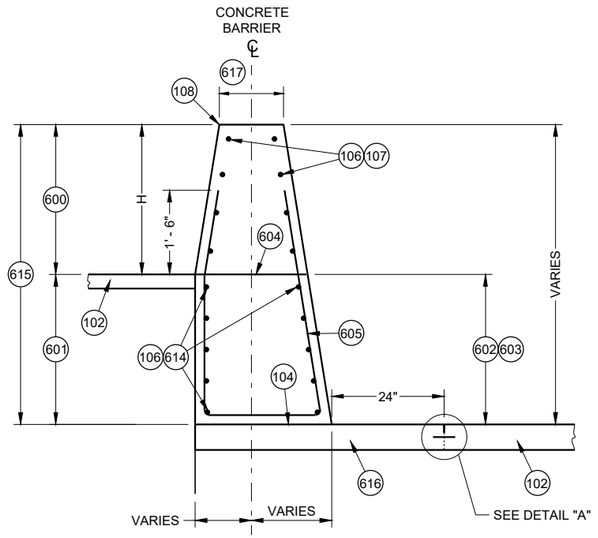
613 SEE COLD JOINT DETAIL.

614 SEE TABLE "E" FOR REQUIRED REBAR

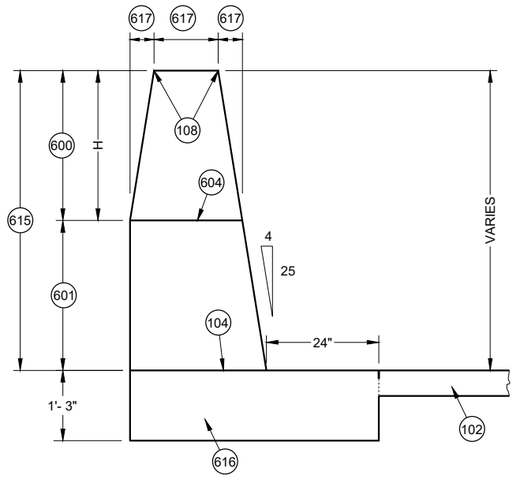
615 TOTAL BARRIER HEIGHT (SEE PLAN FOR HEIGHT)

616 FOR SOME LOCATIONS, NO PAN IS NEEDED. SEE OTHER DETAILS.

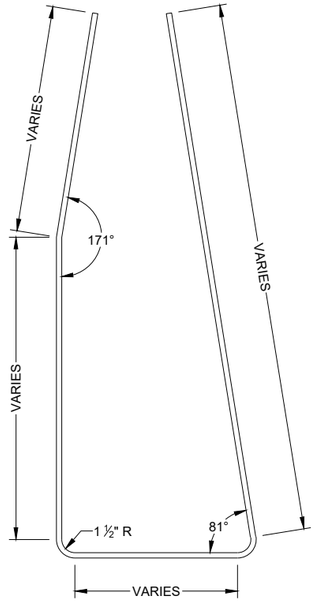
617 SEE TABLE "A" FOR DIMENSIONS



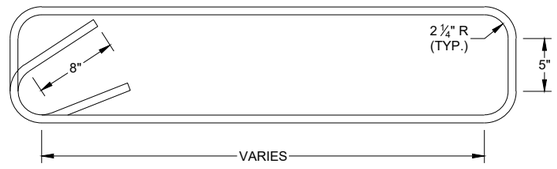
SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)
(BETWEEN ADJACENT ROADWAYS)



SECTION J - J
MEDIAN BARRIER AND RETAINING WALL END ANCHOR DIMENSIONS



LOOP BAR BENDING DETAIL



END ANCHOR STIRRUP BAR BENDING DETAIL

TABLE "E"

HEIGHT BETWEEN ROADWAY	QUANTITY OF NO. 6 BARS
0 TO 3"	0
GREATER THAN 3" TO 8"	2
GREATER THAN 8" TO 12"	4
GREATER THAN 12" TO 36"	8

CONCRETE BARRIER SINGLE SLOPE (CBSS)

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GENERAL NOTES

700 END ANCHOR SINGLE SLOPE CONCRETE BARRIER

701 SEE EXPANSION JOINT DETAIL

702 END ANCHOR SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL

703 PAY LIMIT FOR SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL

704 SEE COLD JOINT DETAIL

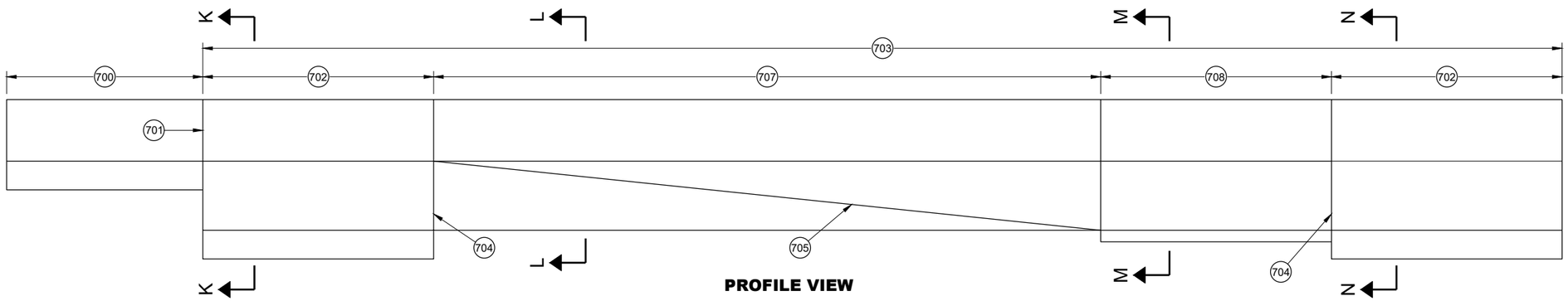
705 LOW SIDE SHOULDER

706 HIGH SIDE SHOULDER

707 SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL INSTALLED WITHOUT A PAN.

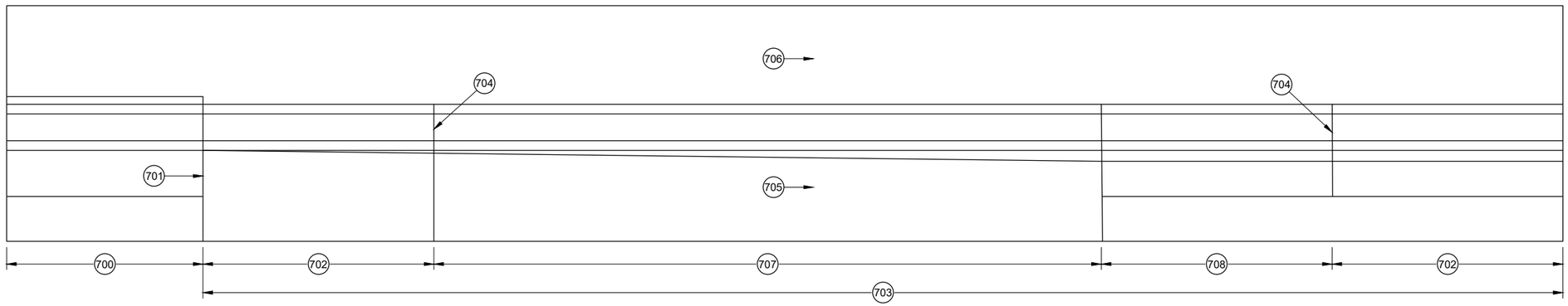
708 SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL INSTALLED WITH A PAN.

709 EXCAVATION AND COMPACTION



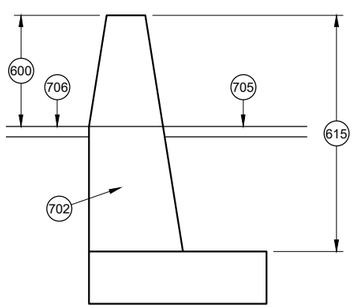
PROFILE VIEW

SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL

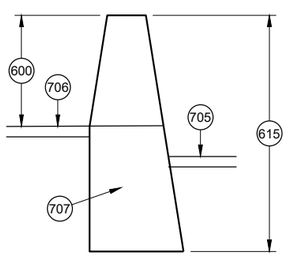


PLAN VIEW

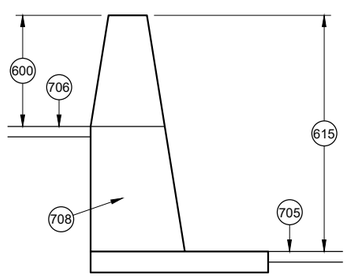
SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL



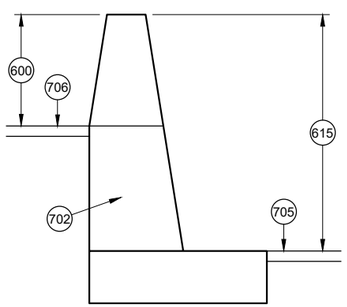
SECTION K - K



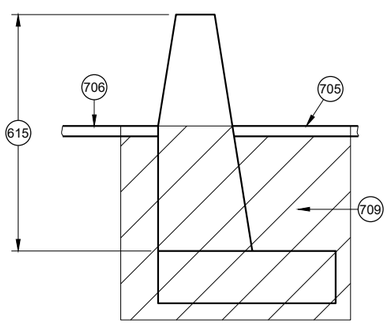
SECTION L - L



SECTION M - M



SECTION N - N



CONCRETE BARRIER
SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
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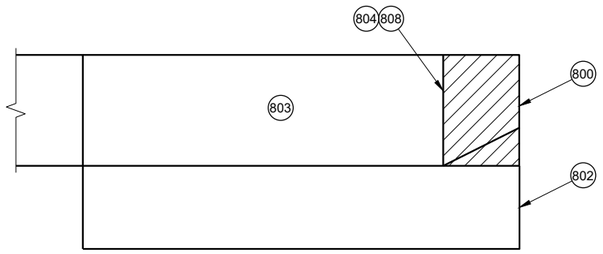
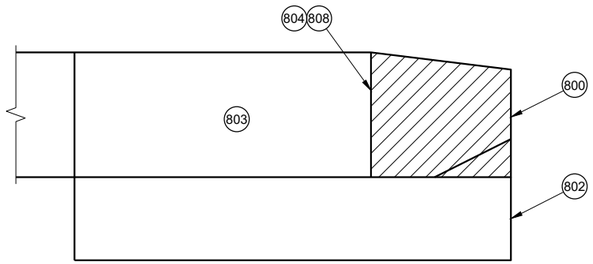
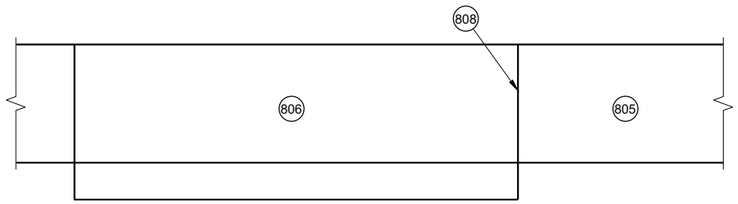


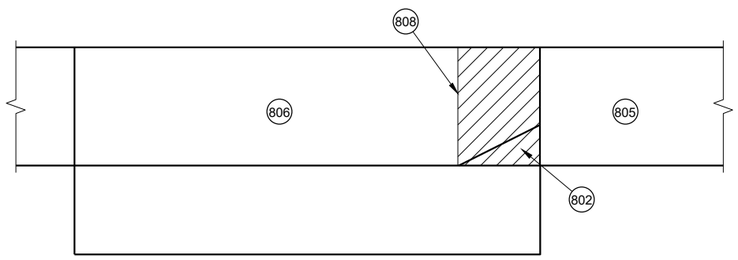
REMOVAL AREA OF
32" CONCRETE THRIE BEAM ANCHORAGE



REMOVAL AREA OF CONCRETE THRIE BEAM
ANCHORAGE WITH HEIGHT GREATER THAN 32"



CONCRETE BARRIER EXTENSION NEAR END ANCHORAGE



CONCRETE BARRIER EXTENSION NEAR THRIE BEAM TERMINAL

GENERAL NOTES

END ANCHORAGE MAY OR MAY NOT BE PRESENT ON EXISTING BARRIER.

REMOVE THRIE BEAM ANCHORAGE AS SHOWN.

800 AREA OF BARRIER REMOVAL AN NEW CONCRETE AND STEEL IS INSTALLED.

801 MINIMUM LENGTH OF REMOVAL IS 15'

802 FOOTING BELOW GROUND MAY REMAIN IN PLACE.

803 CONCRETE BARRIER SINGLE SLOPE THRIE BEAM ANCHOR TO REMAIN.

804 SAW CUT

805 NEW SINGLE SLOPE CONCRETE BARRIER.

806 CONCRETE BARRIE SINGLE SLOPE TO REMAIN.

807 SINGLE SLOPE CONCRETE BARRIER OR CONCRETE BARRIER SINGLE SLOPE THRIE BEAM ANCHOR TO REMAIN.

808 SEE CONNECTION DETAIL.

809 NO. 5 CONTINUOUS BAR.

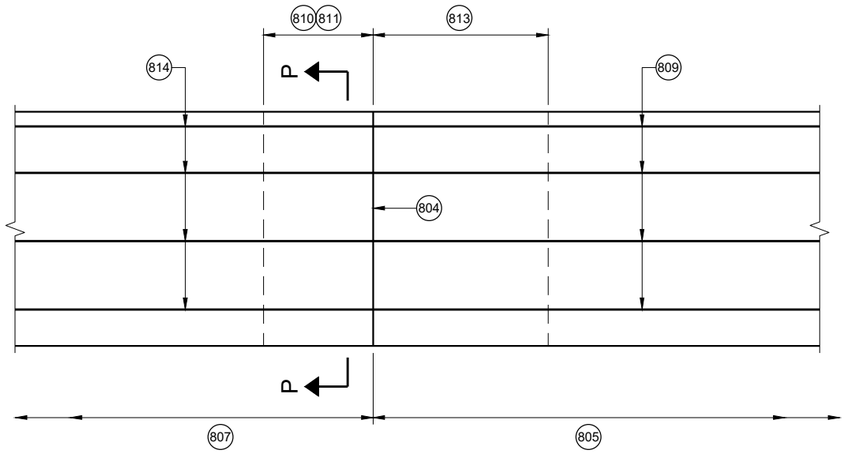
810 3" MIN. DRILL HOLES. USES NO. 5 ADHESIVE ANCHORS.

811 THE NUMBER OF DRILL HOLES IS EQUAL TO THE NUMBER OF HORIZONTAL REBAR IN BARRIER. DRILL HOLES ARE TO BE A MINIMUM OF 4" FROM EDGE OF CONCRETE.

812 EXISTING REBAR IN EXISTING BARRIER OR END ANCHOR.

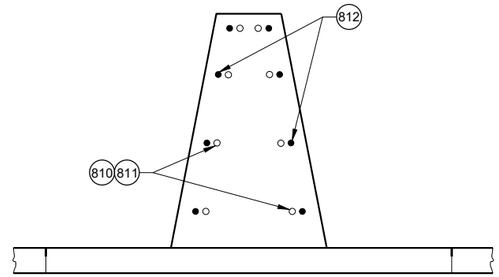
813 3" BAR OVERLAP

814 EXISTING REINFORCEMENT

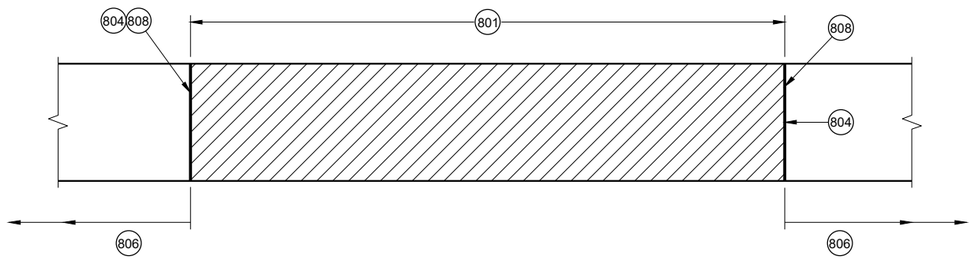


CONNECTION DETAIL

SINGLE SLOPE CONCRETE BARRIER TO
NEW SINGLE SLOPE CONCRETE BARRIER



SECTION P - P



BARRIER REMOVAL AND REPLACEMENT

RETROFIT OR REPAIR SINGLE SLOPE CONCRETE BARRIER

CONCRETE BARRIER
SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

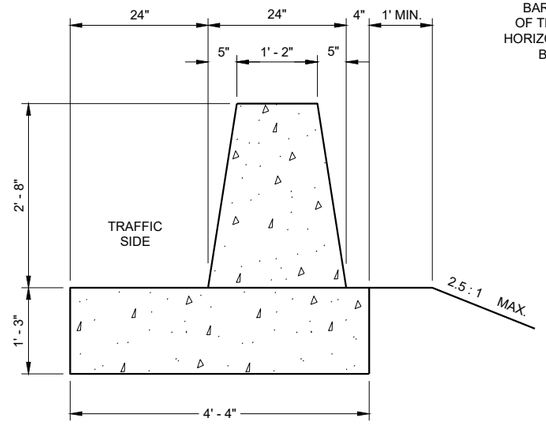
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

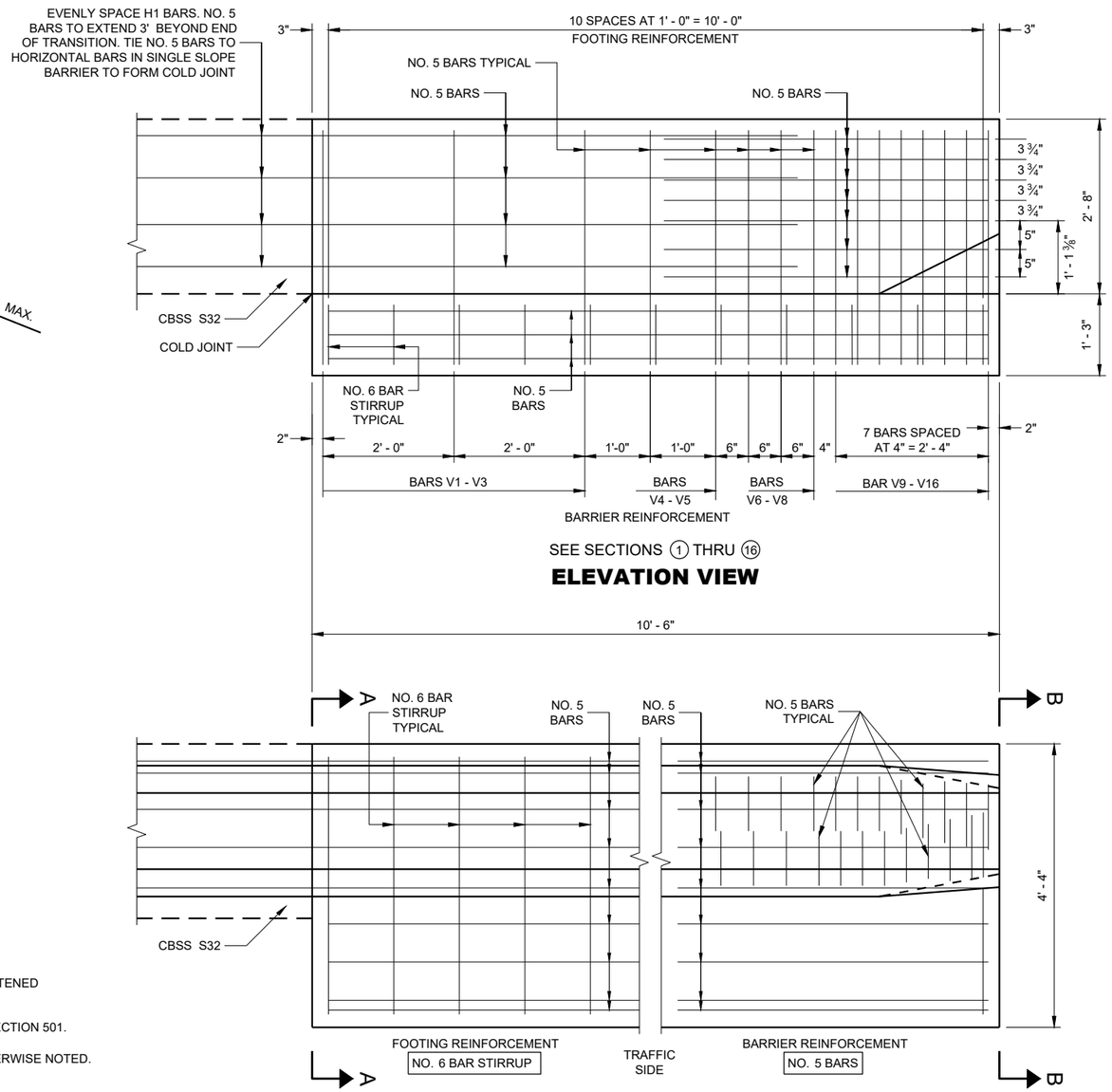
6

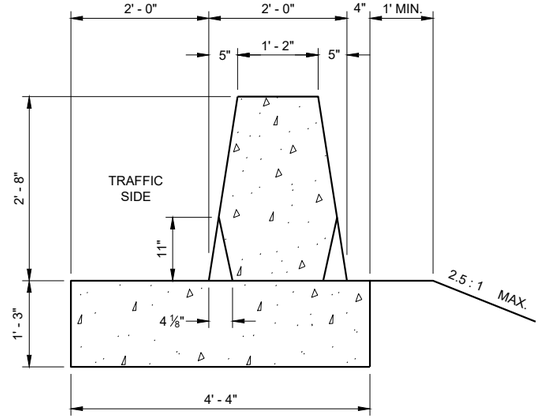
SDD 14B32 - 09h

6

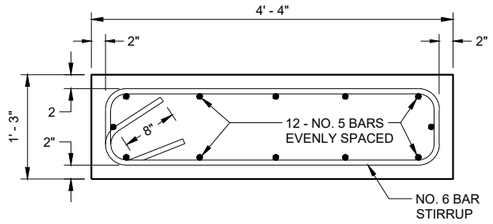
SDD 14B32 - 09h



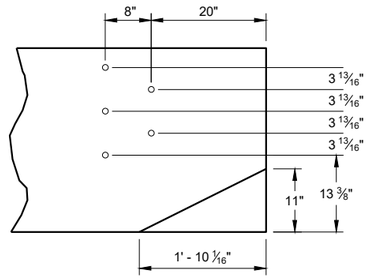




SECTION B - B



TYPICAL FOOTING



PVC PIPE LOCATIONS

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.

THRIE BEAM ANCHOR INCIDENTAL TO CONCRETE BARRIER ITEM.

INSTALL SCHEDULE 40 PVC PIPE 1" DIAMETER AT LOCATIONS INDICATED.

EXTEND PVC PIPE COMPLETELY THROUGH BARRIER.

CUT ENDS OF PVC PIPE FLUSH WITH FINISHED FACE OF BARRIER.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

6

SDD 14B33 - 02a

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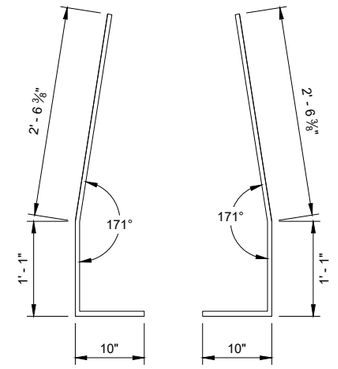
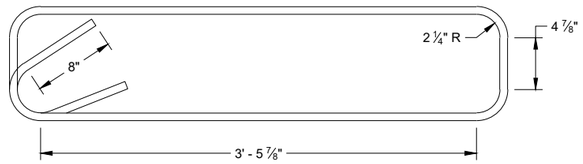
SDD 14B33 - 02a

CONCRETE BARRIER SINGLE SLOPE 32" THRIE BEAM ANCHOR

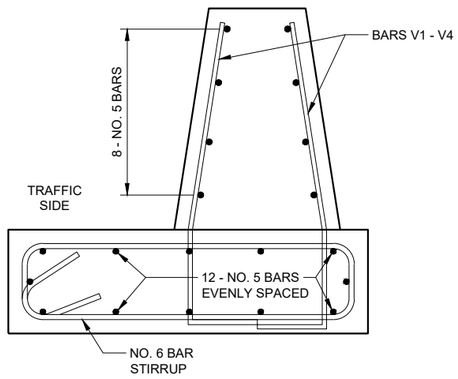
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



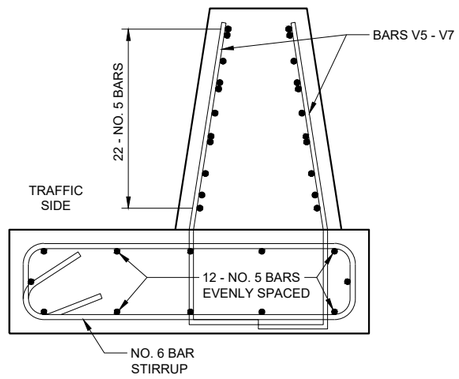
BAR BENDING DETAIL
BARS 1 - 11



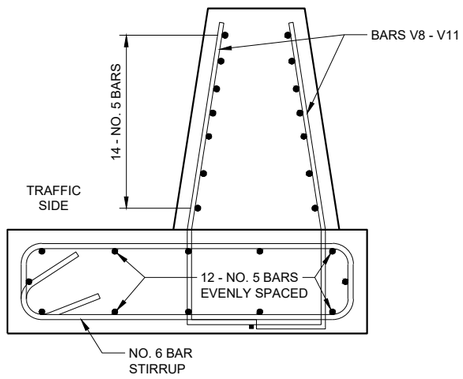
STIRRUP BAR
BENDING DETAIL



BAR DETAIL
SECTIONS 1 - 4



BAR DETAIL
SECTIONS 5 - 7



BAR DETAIL
SECTIONS 8 - 11

6

6

SDD 14B33 - 02b

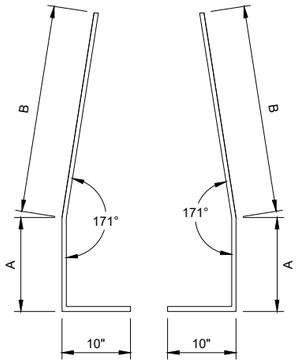
SDD 14B33 - 02b

CONCRETE BARRIER
SINGLE SLOPE 32"
THRIE BEAM ANCHOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

BAR CHART
BAR POSITIONS
12 - 13

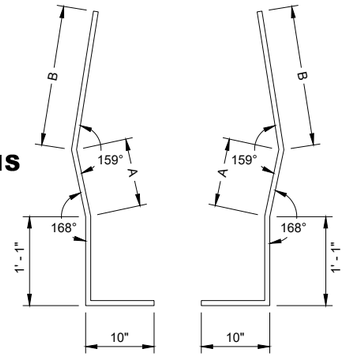
BAR	A	B
V12	1' - 3"	2' - 6"
V13	1' - 8"	2' - 1 ½"



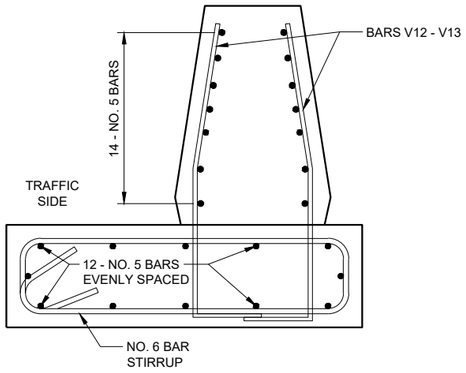
BAR BENDING DETAIL
SECTIONS V12- V13

BAR CHART
BAR POSITIONS
14 - 16

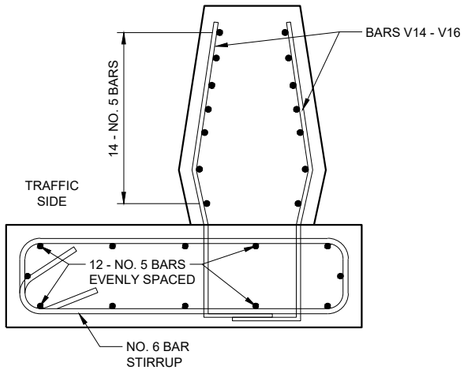
BAR	A	B
V14	6"	2' - 1"
V15	8"	1' - 11"
V16	10"	1' - 8 ½"



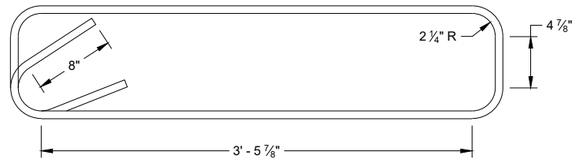
BAR BENDING DETAIL
SECTIONS V14 - V16



BAR DETAIL
SECTIONS 12 - 13



BAR DETAIL
SECTIONS 14 - 16



STIRRUP BAR
BENDING DETAIL

CONCRETE BARRIER
SINGLE SLOPE 32"
THRIE BEAM ANCHOR

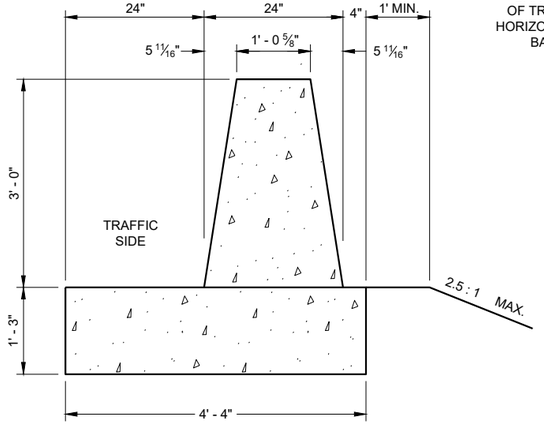
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

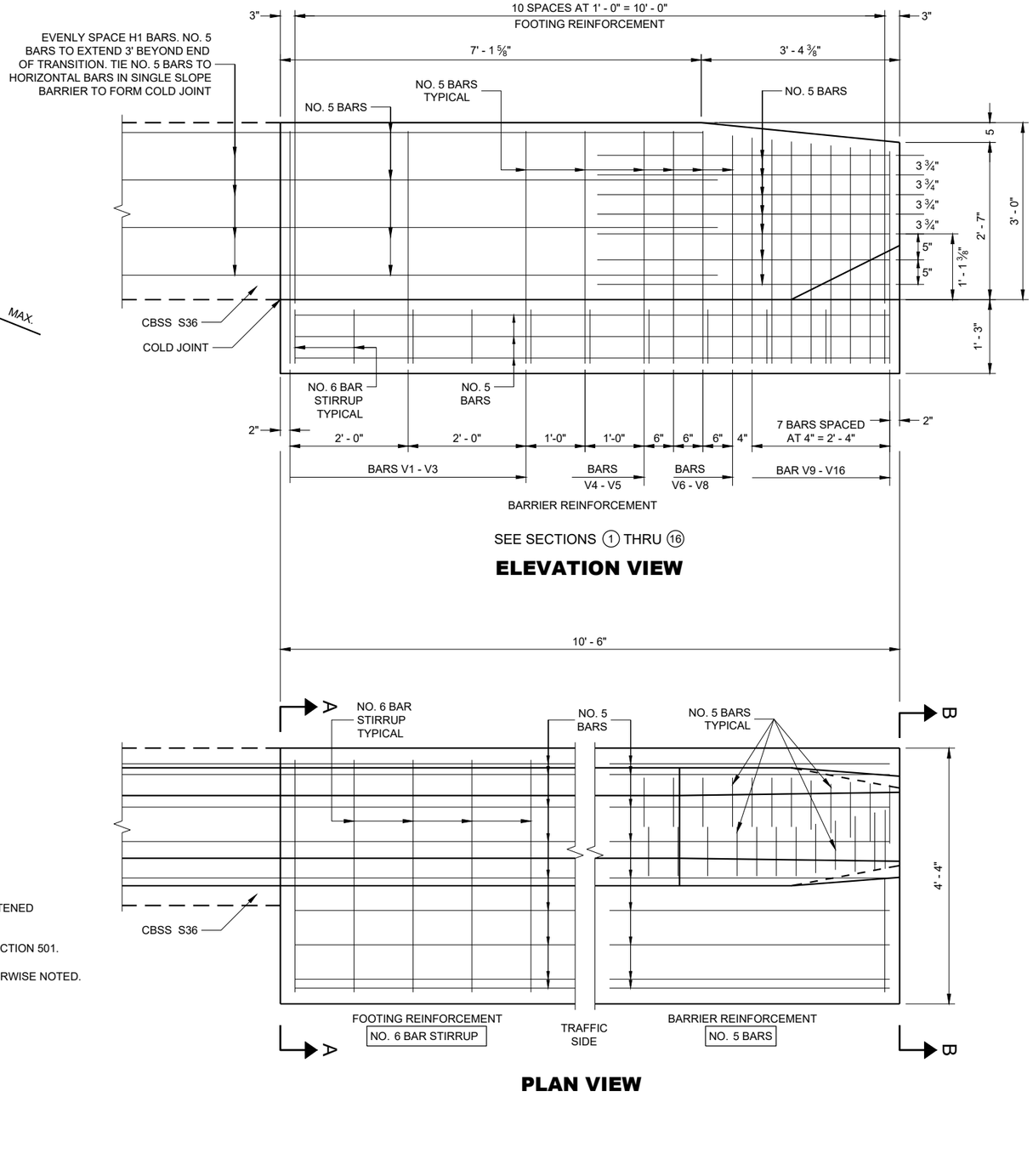
FHWA

6

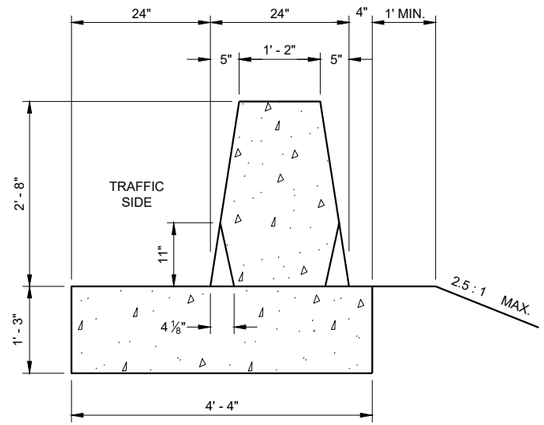
SDD 14B33 - 02c



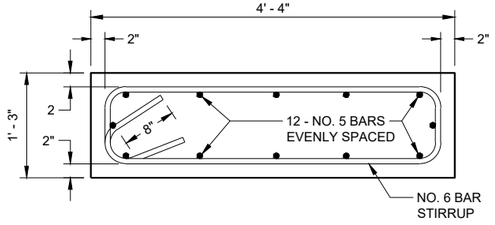
SECTION A - A



ELEVATION VIEW

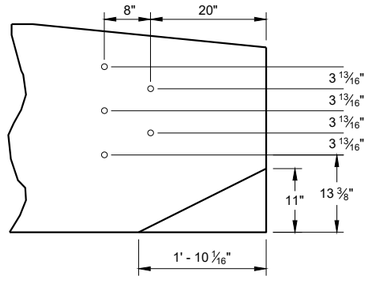


SECTION B - B



TYPICAL FOOTING

PLAN VIEW



PVC PIPE LOCATIONS

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.

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CUT ENDS OF PVC PIPE FLUSH WITH FINISHED FACE OF BARRIER.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

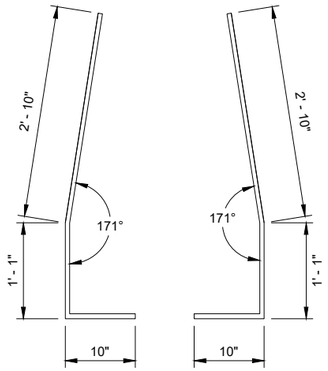
CONCRETE BARRIER SINGLE SLOPE 36" THRIE BEAM ANCHOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

723

SDD 14B33 - 02d

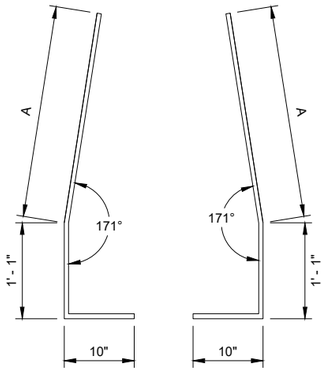
SDD 14B33 - 02d



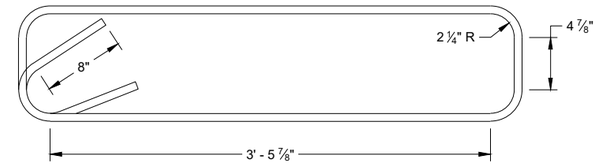
BAR BENDING DETAIL
SECTIONS V1- V6

BAR CHART
BAR POSITIONS
7 - 11

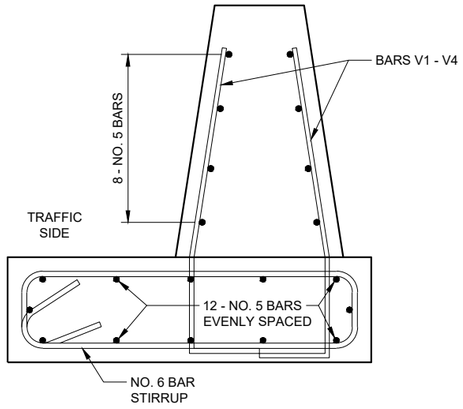
BAR	A
V7	2' - 10 ¼"
V8	2' - 9 ¾"
V9	2' - 9 ¼"
V10	2' - 9"
V11	2' - 8 ½"



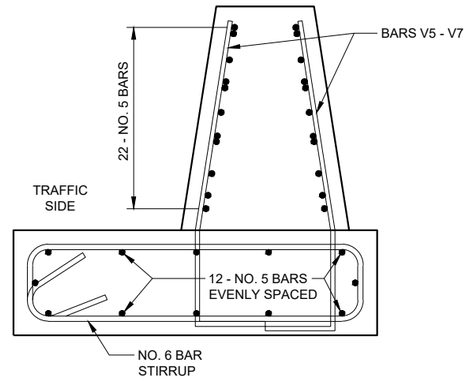
BAR BENDING DETAIL
SECTIONS V7- V11



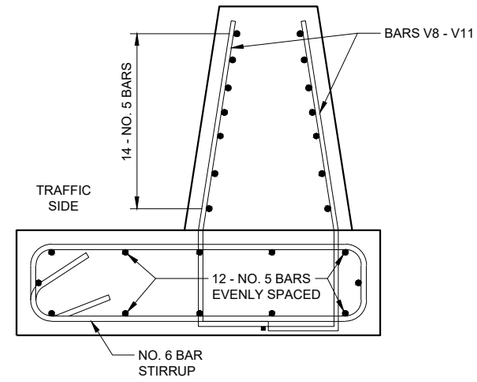
STIRRUP BAR
BENDING DETAIL



BAR DETAIL
SECTIONS 1 - 4



BAR DETAIL
SECTIONS 5 - 7



BAR DETAIL
SECTIONS 8 - 11

6

SDD 14B33 - 02e

6

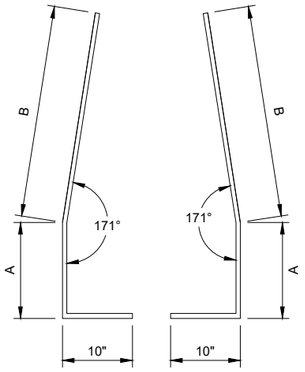
SDD 14B33 - 02e

CONCRETE BARRIER
SINGLE SLOPE 36"
THRIE BEAM ANCHOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

BAR CHART
BAR POSITIONS
12 - 13

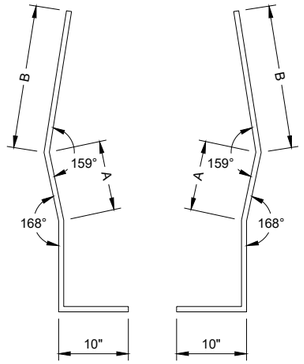
BAR	A	B
V12	1' - 3"	2' - 6"
V13	1' - 8"	2' - 1 ½"



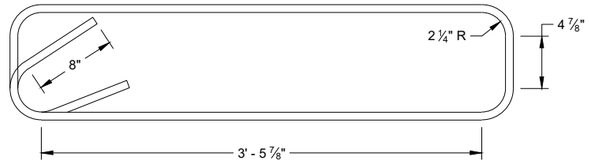
BAR BENDING DETAIL
SECTIONS V12 - V13

BAR CHART
BAR POSITIONS
14 - 16

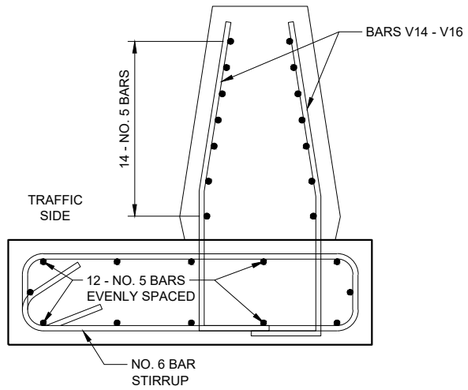
BAR	A	B
V14	6"	2' - 1"
V15	8"	1' - 11"
V16	10"	1' - 8 ½"



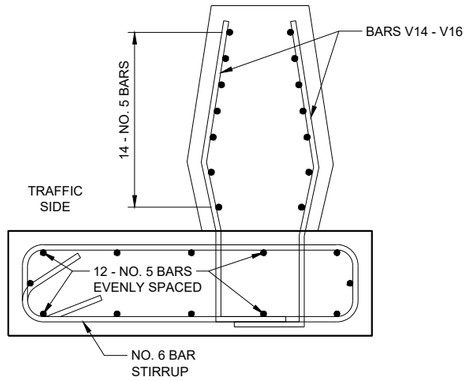
BAR BENDING DETAIL
SECTIONS V14 - V16



STIRRUP BAR
BENDING DETAIL



BAR DETAIL
SECTIONS 12 - 13



BAR DETAIL
SECTIONS 14 - 16

CONCRETE BARRIER
SINGLE SLOPE 36"
THRIE BEAM ANCHOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

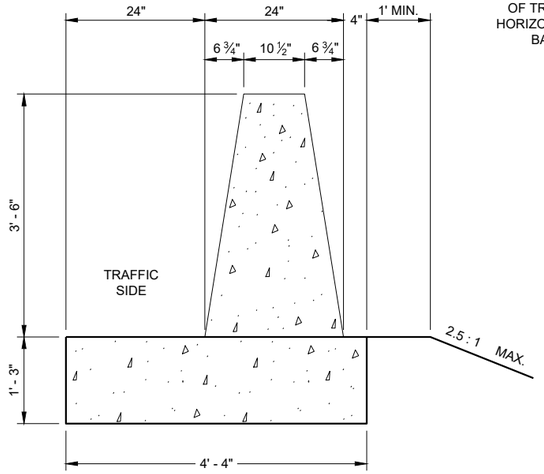
FHWA

6

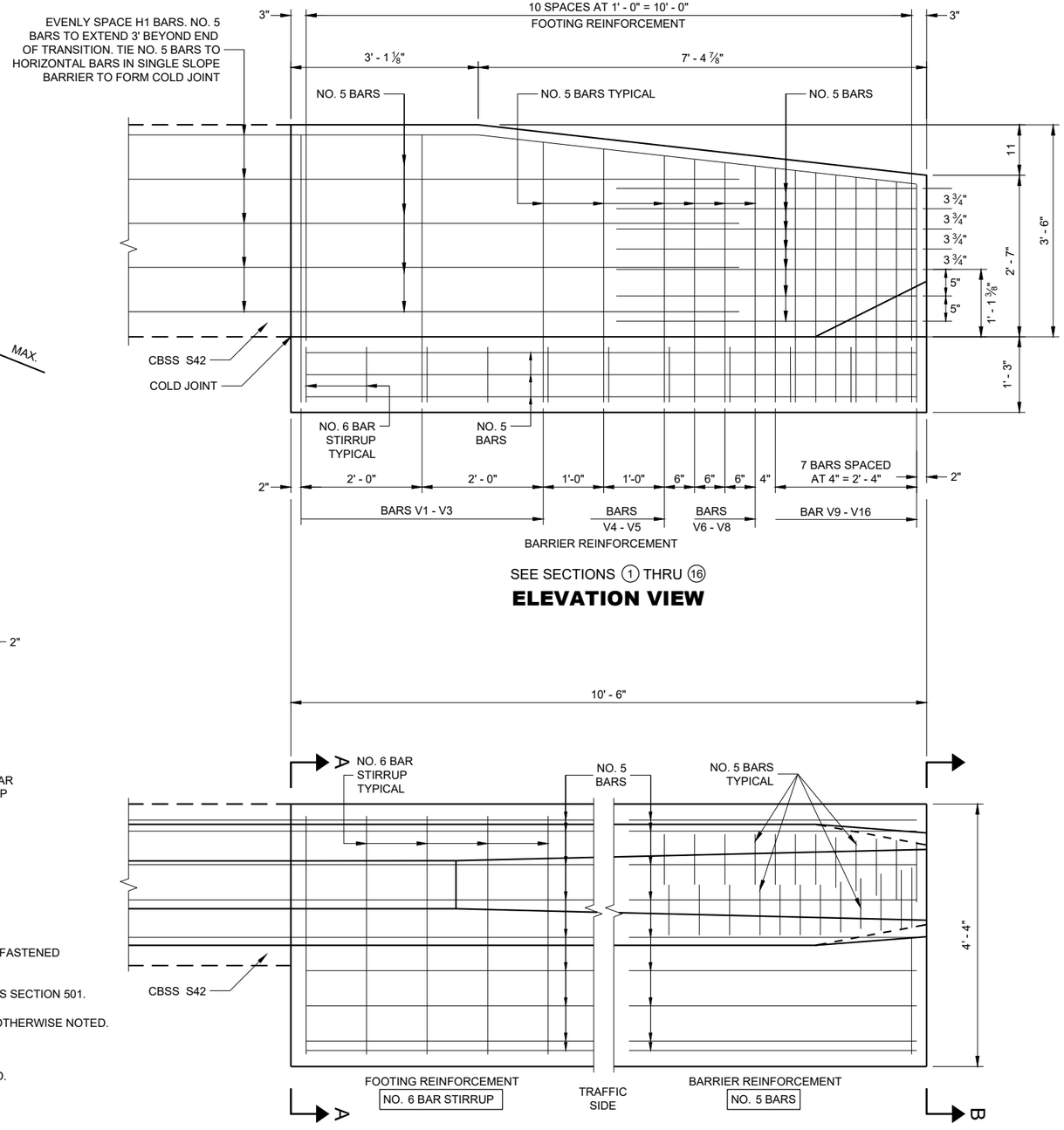
SDD 14B33 - 02f

6

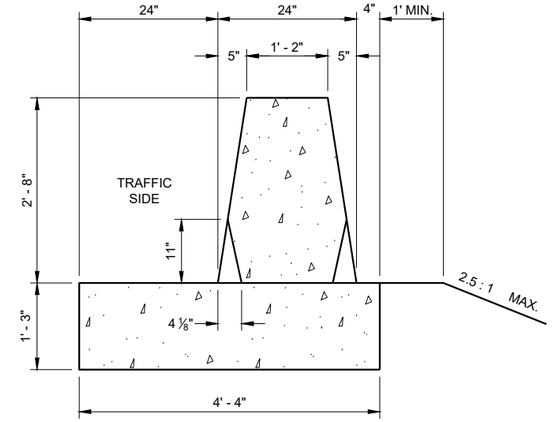
SDD 14B33 - 02f



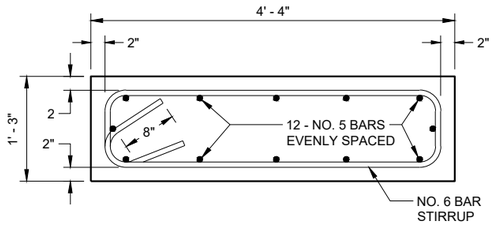
SECTION A - A



ELEVATION VIEW

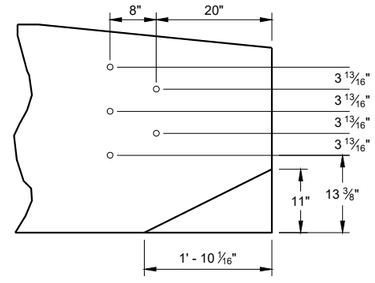


SECTION B - B



TYPICAL FOOTING

PLAN VIEW



PVC PIPE LOCATIONS

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS OTHERWISE NOTED.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.

THRIE BEAM ANCHOR INCIDENTAL TO CONCRETE BARRIER ITEM.

INSTALL SCHEDULE 40 PVC PIPE 1" DIAMETER AT LOCATIONS INDICATED.

EXTEND PVC PIPE COMPLETELY THROUGH BARRIER.

CUT ENDS OF PVC PIPE FLUSH WITH FINISHED FACE OF BARRIER.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

CONCRETE BARRIER
SINGLE SLOPE 42"
THRIE BEAM ANCHOR

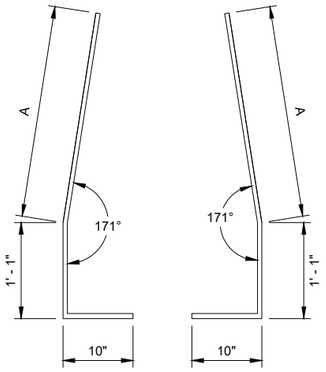
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B33 - 02g

BAR CHART
BAR POSITIONS
1 - 11

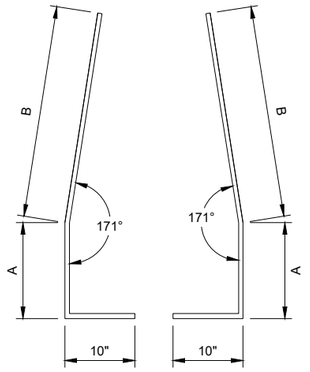
BAR	A
V1	3' - 4 ½"
V2	3' - 4 ½"
V3	3' - 2 ½"
V4	3' - 1"
V5	2' - 11 ½"
V6	2' - 11"
V7	2' - 10 ½"
V8	2' - 9 ½"
V9	2' - 9"
V10	2' - 8 ½"
V11	2' - 8"



BAR BENDING DETAIL
SECTIONS V1 - V4

BAR CHART
BAR POSITIONS
12 - 13

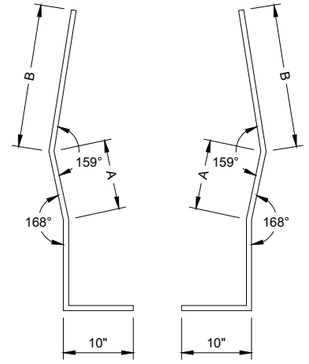
BAR	A	B
V12	1' - 3"	2' - 6"
V13	1' - 8"	2' - 1 ½"



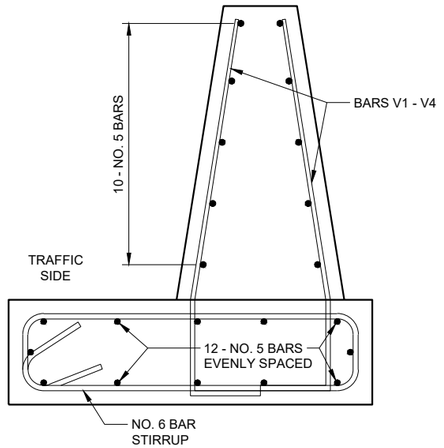
BAR BENDING DETAIL
SECTIONS V12 - V13

BAR CHART
BAR POSITIONS
14 - 16

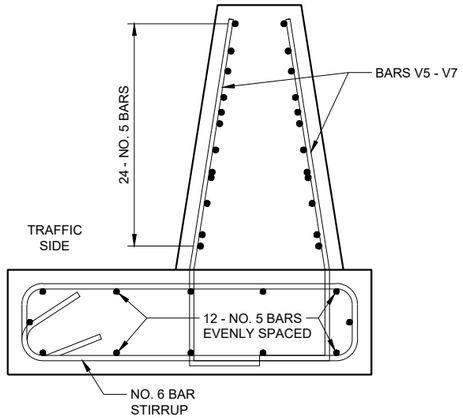
BAR	A	B
V14	6"	2' - 1"
V15	8"	1' - 11"
V16	10"	1' - 8 ½"



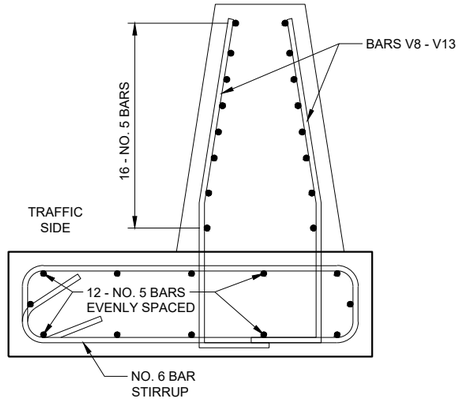
BAR BENDING DETAIL
SECTIONS V14 - V16



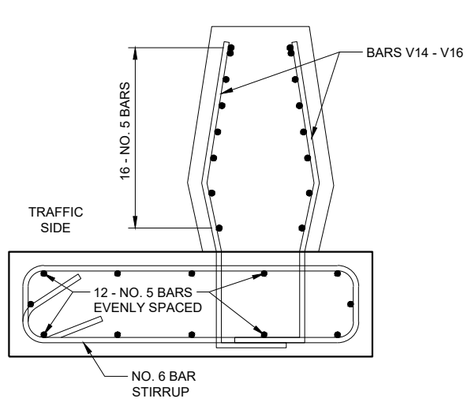
BAR DETAIL
SECTIONS 1 - 4



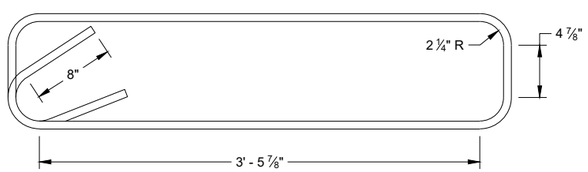
BAR DETAIL
SECTIONS 5 - 7



BAR DETAIL
SECTIONS 8 - 13



BAR DETAIL
SECTIONS 14 - 16



STIRRUP BAR
BENDING DETAIL

CONCRETE BARRIER
SINGLE SLOPE 42"
THRIE BEAM ANCHOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
ENGINEER

FHWA

727

6

SDD 14B33 - 02h

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SDD 14B33 - 02h

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

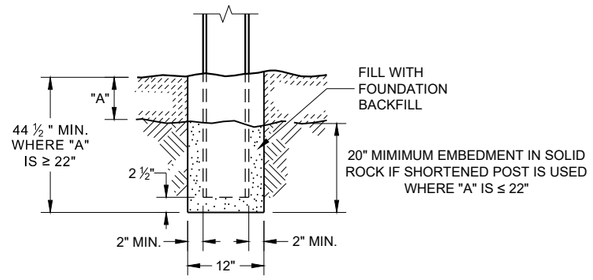
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

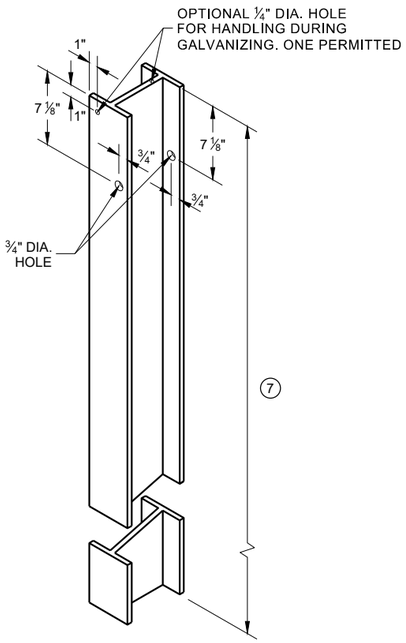
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

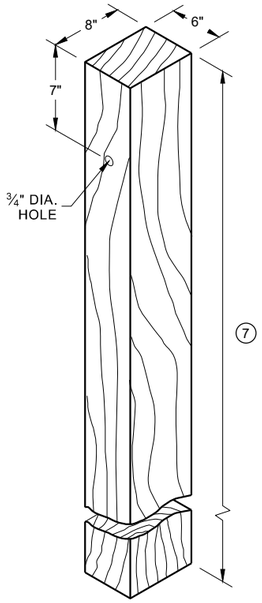
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



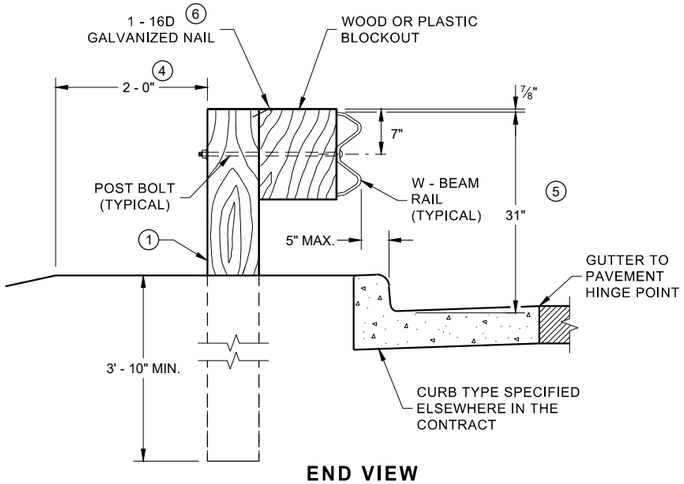
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



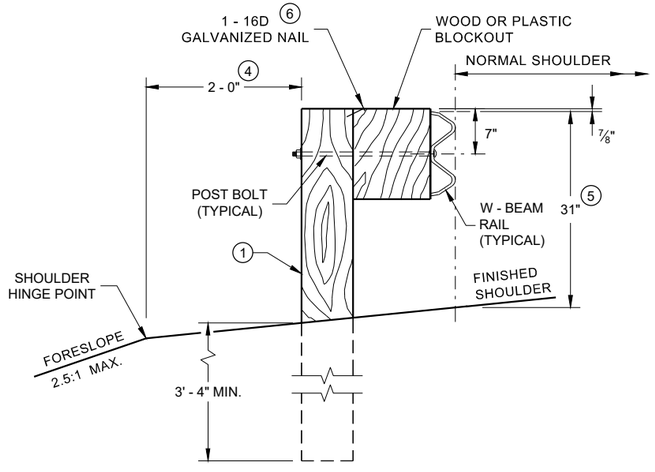
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



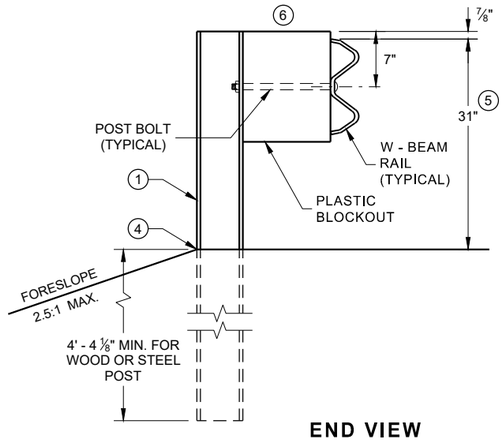
WOOD POST (6" X 8") NOMINAL (1)



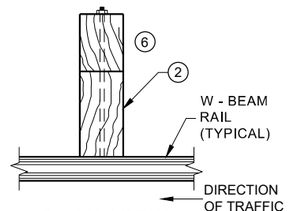
END VIEW
LOCATED ALONG A CURBED ROADWAY



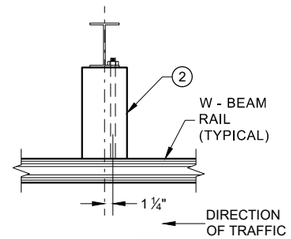
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



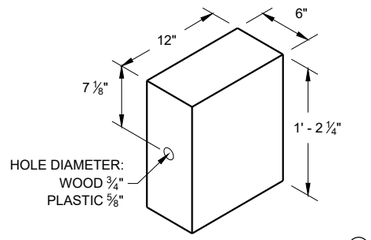
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

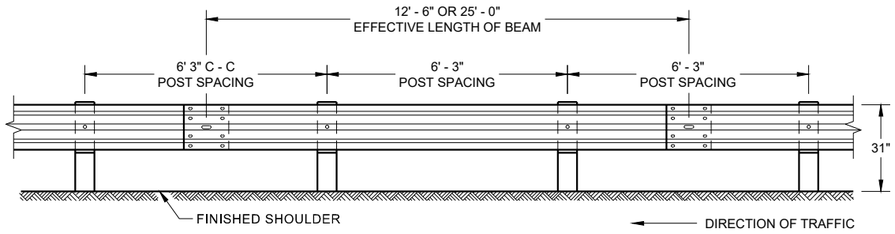
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

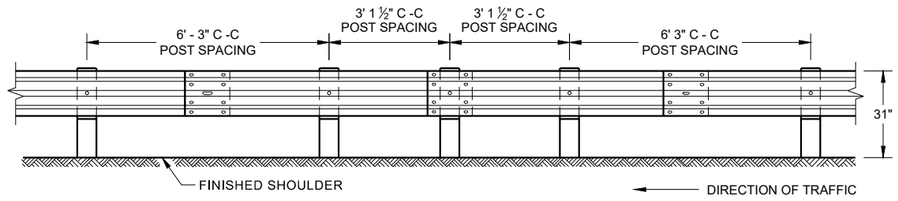
6

SDD 14B42 - 07a

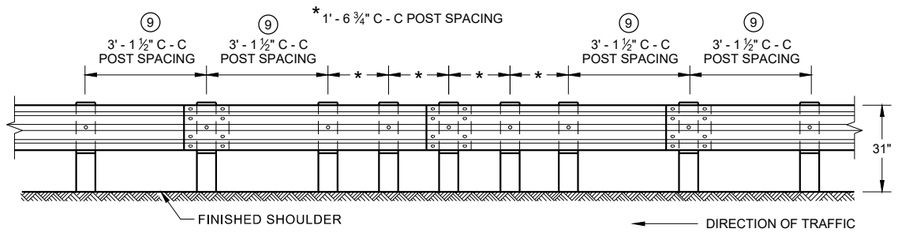
SDD 14B42 - 07a



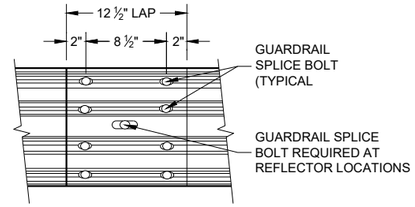
FRONT VIEW
POST SPACING STANDARD INSTALLATION



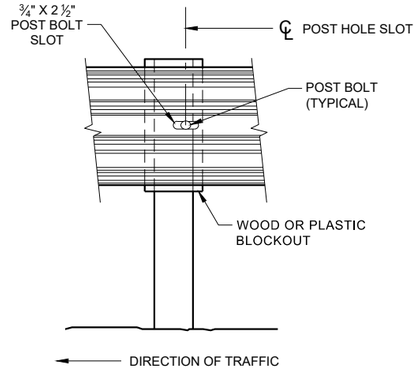
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



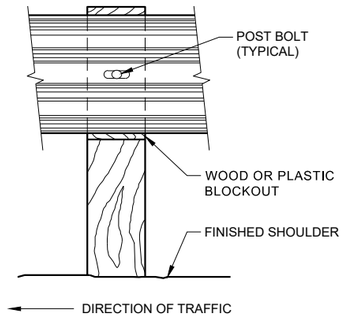
FRONT VIEW
QUARTER POST SPACING (QS)



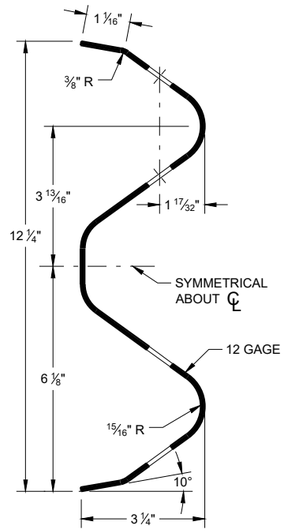
FRONT VIEW
MID-SPAN BEAM SPLICE



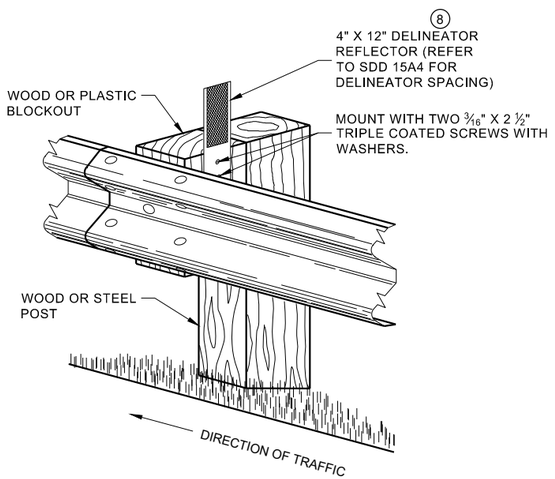
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

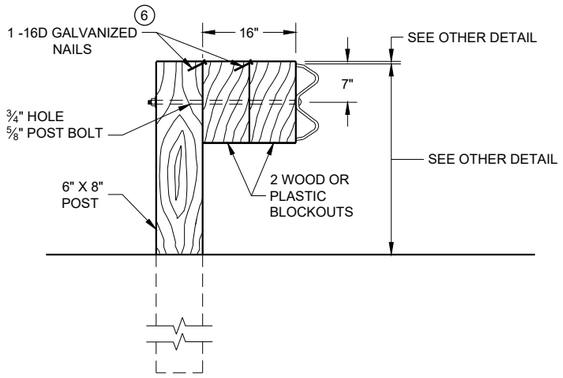
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B42 - 07b

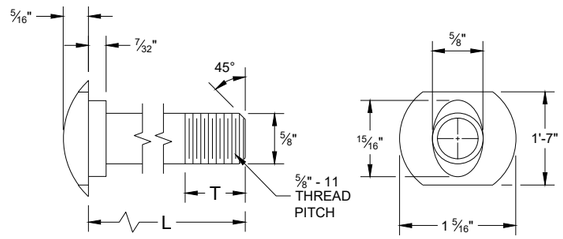


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

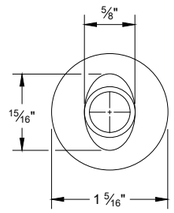
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

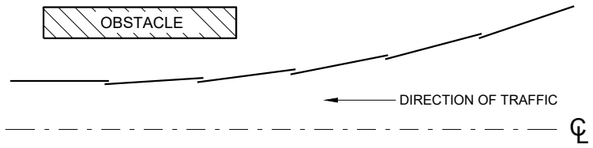


POST BOLT TABLE

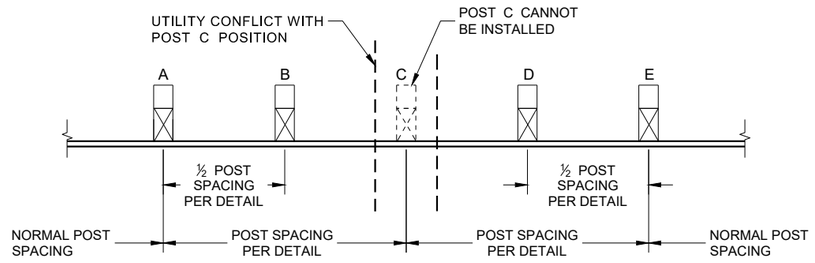
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



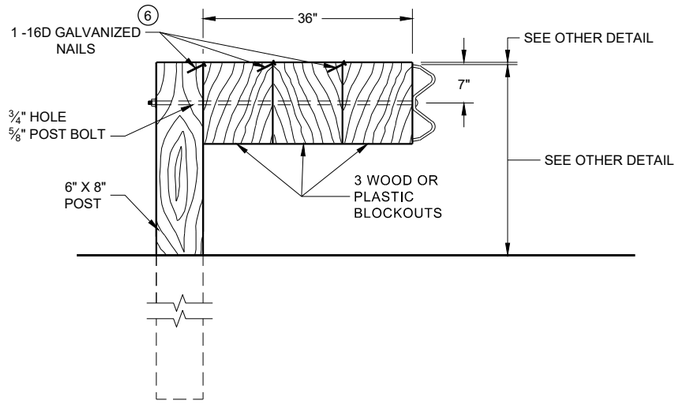
ALTERNATE BOLT HEAD



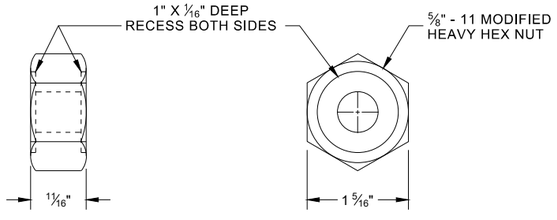
PLAN VIEW
BEAM LAPPING DETAIL



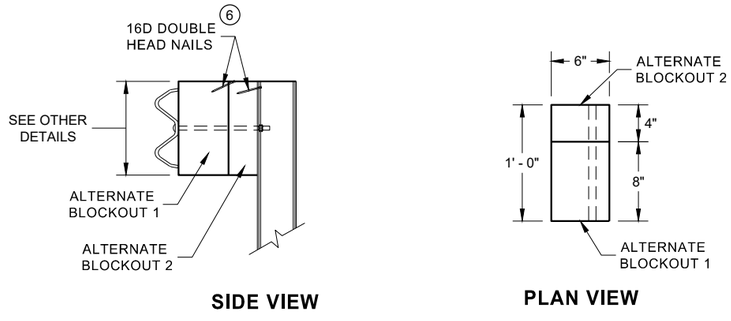
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW

PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

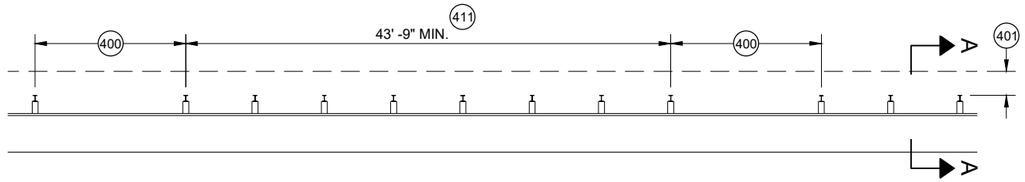
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

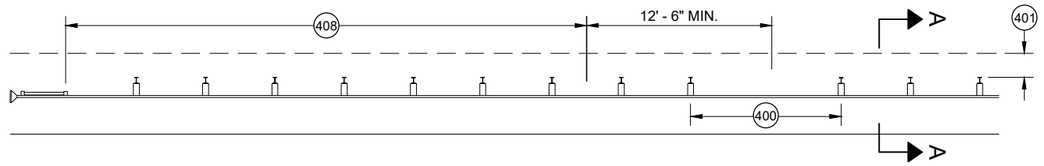
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA 730

6

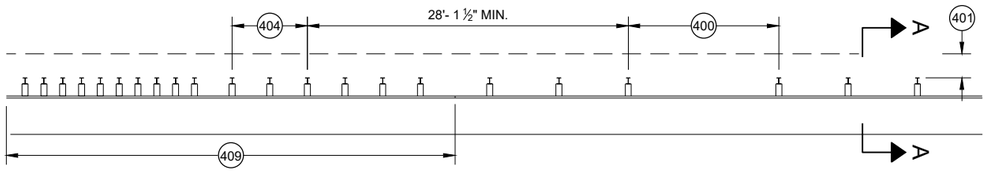
SDD 14B42 - 07c



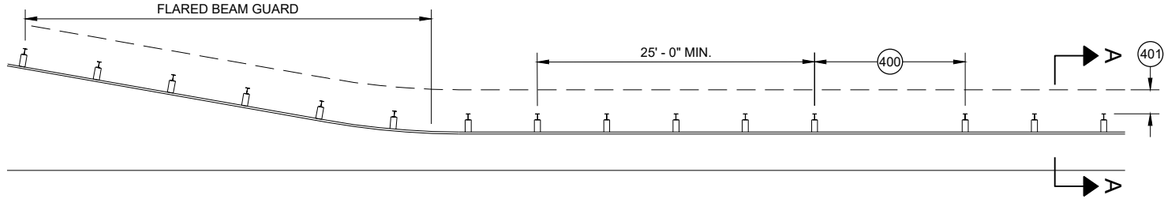
MISSING POST IN MGS GUARDRAIL



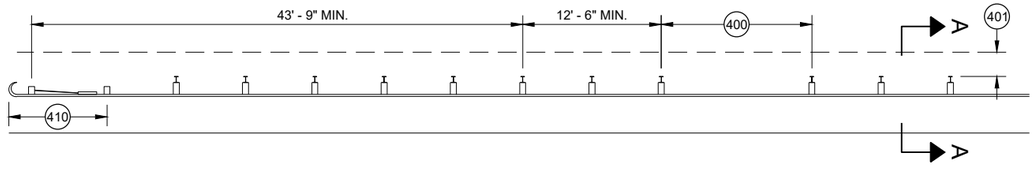
MISSING POST IN MGS GUARDRAIL NEAR EAT



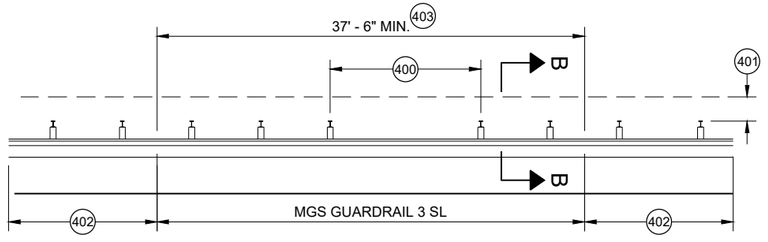
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

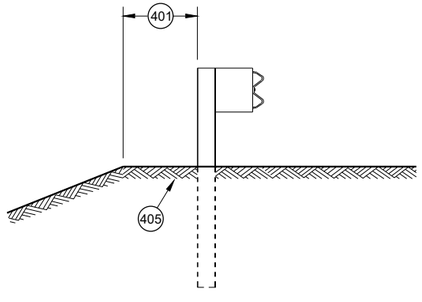


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

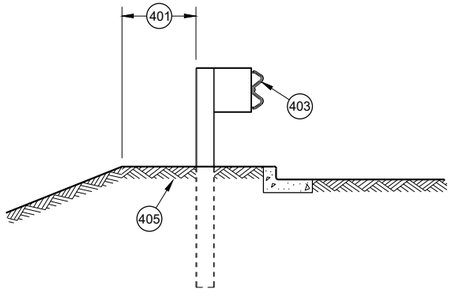


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

400 MAX SPAN 12' - 6"
401 2' MIN.
402 MGS GUARDRAIL 3
403 NESTING BEAM GUARD
404 ASYMMETRIC TRANSITION
405 SOIL WELL DRAINED AND COMPACTED
406 SEE OTHER DRAWINGS IN THIS SDD
407 SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
408 SEE SDD 14B44
409 SEE SDD 14B45
410 SEE SDD 14B47
411 MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

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SDD 14B42 - 07d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

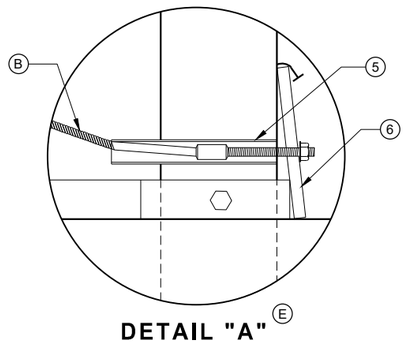
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

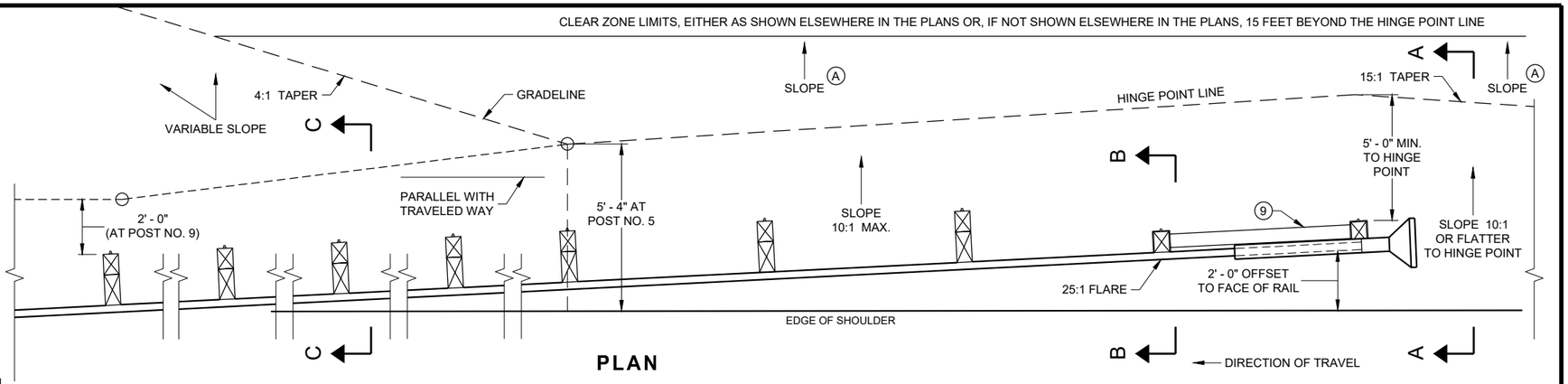
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

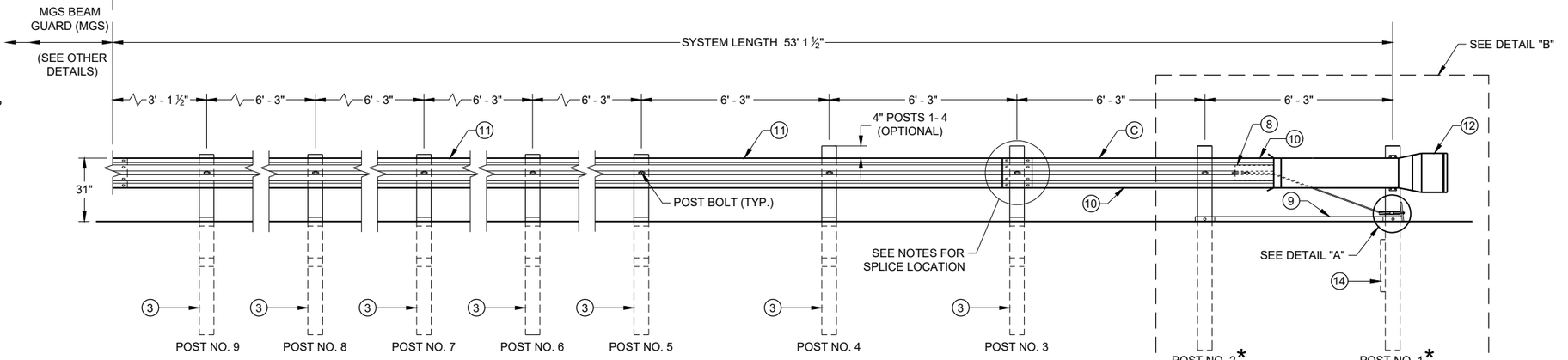
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



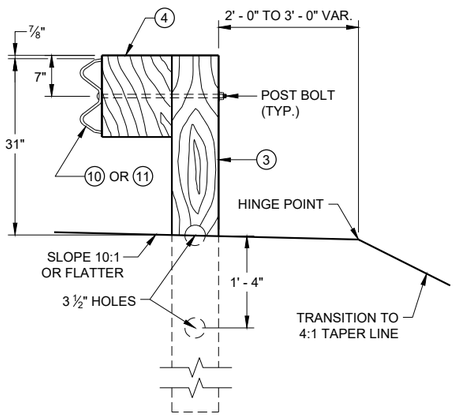
DETAIL "A" (E)



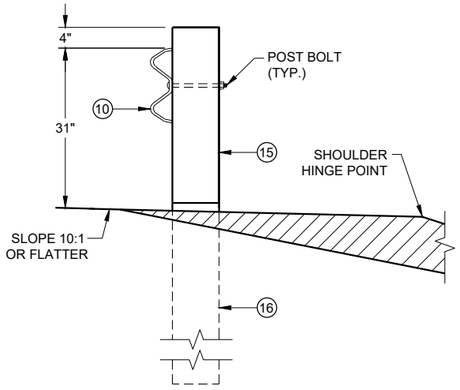
PLAN



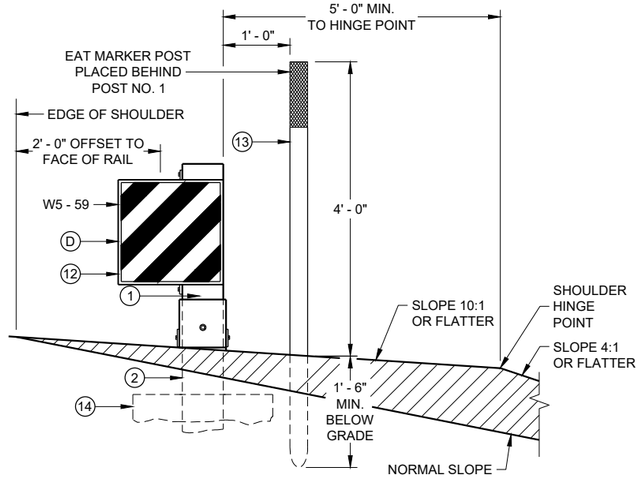
ELEVATION



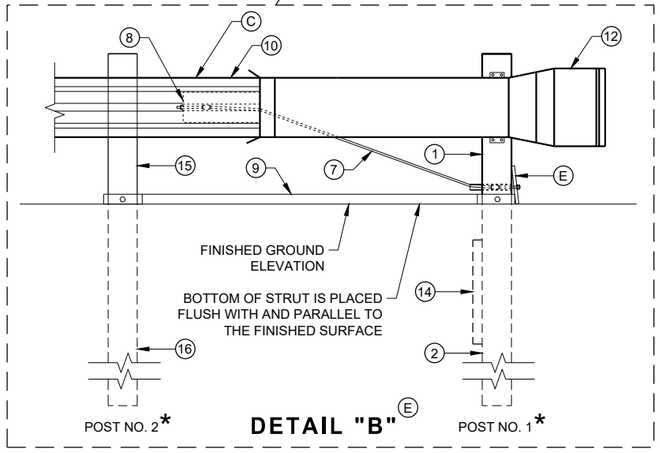
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

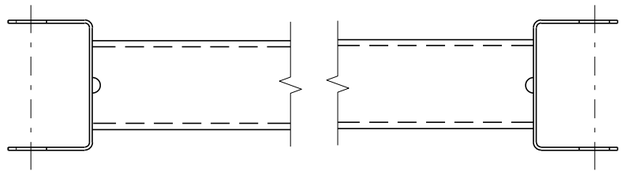
732

SDD 14B44 - 04a

SDD 14B44 - 04a

6

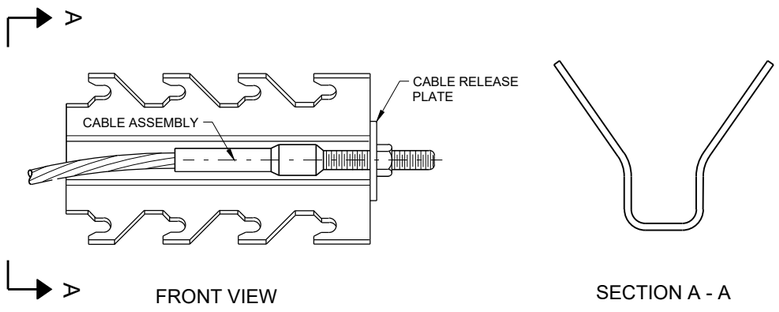
6



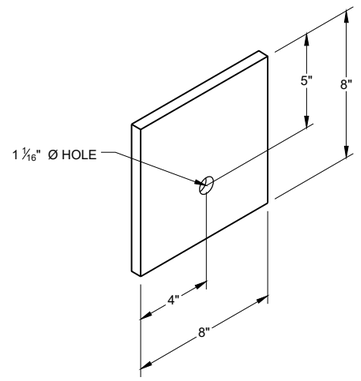
GENERIC GROUND STRUT (9) (E)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
(1)	UPPER POST NO. 1 6" X 6" TUBE
(2)	LOWER POST NO. 1
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	IMPACT HEAD
(13)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
(14)	SOIL PLATE
(15)	UPPER POST NO. 2
(16)	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX (9) (E)



BEARING PLATE (6) (E)

6

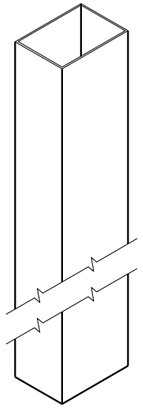
6

SDD 14B44 - 04b

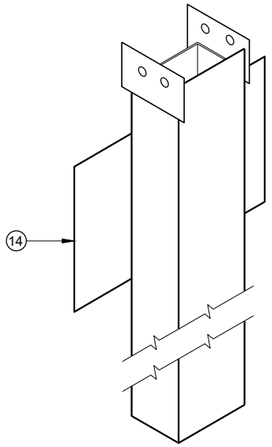
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

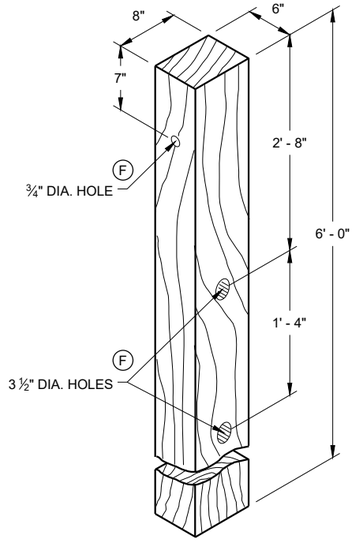
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



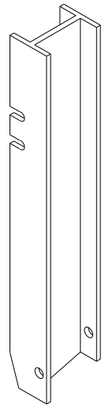
UPPER POST NO. 1 (1) (E)



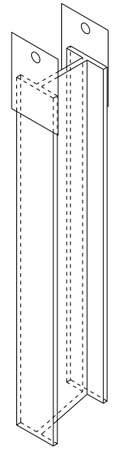
LOWER POST NO. 1 (2) (E)



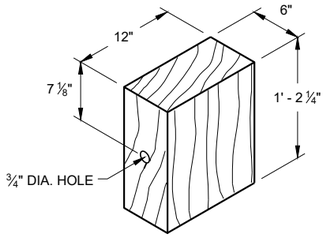
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



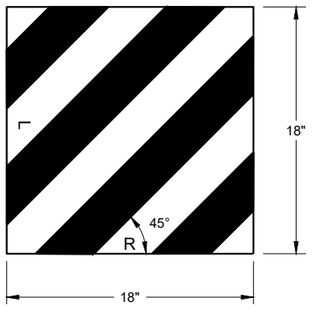
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

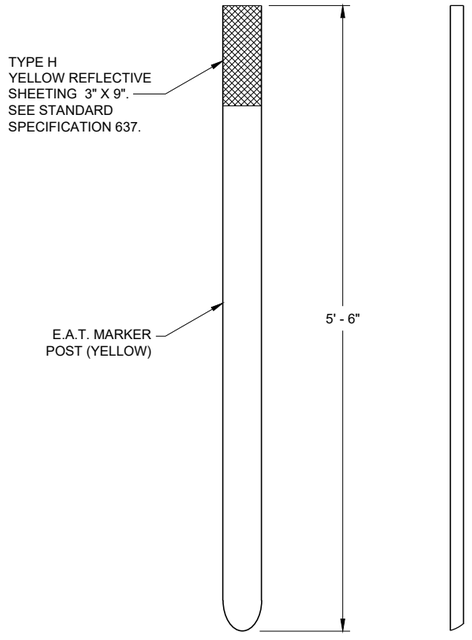


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



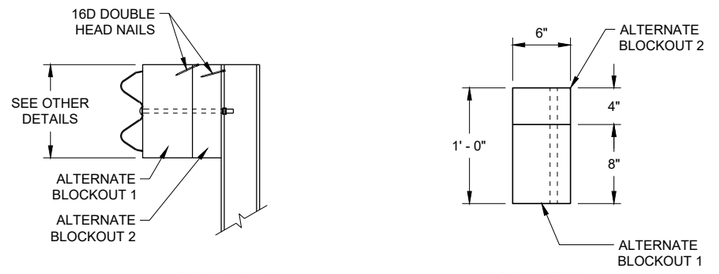
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

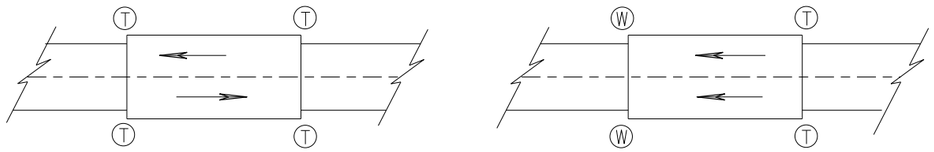
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

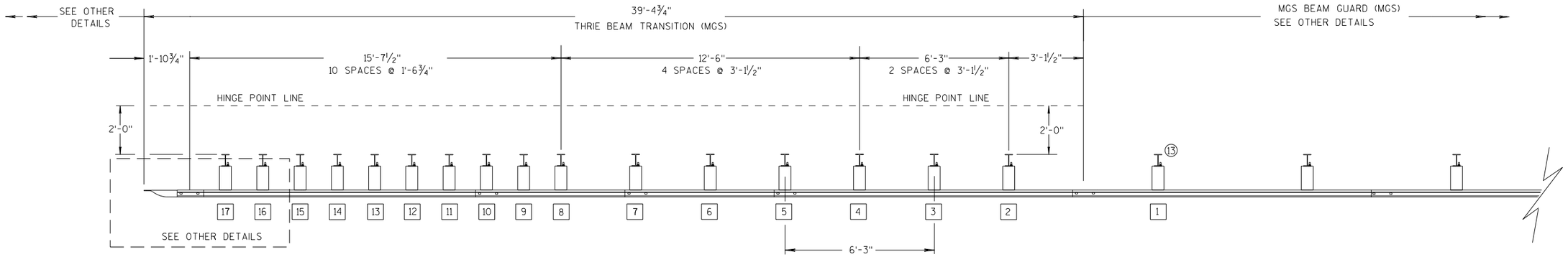
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

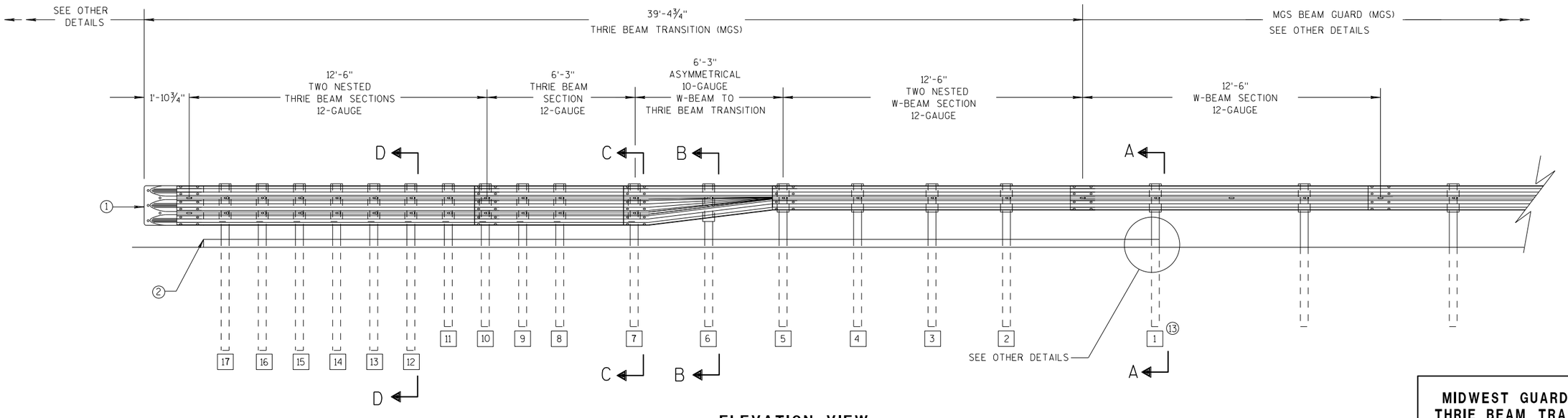
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 735

6

S.D.D. 14 B 45-5a

6

S.D.D. 14 B 45-5a

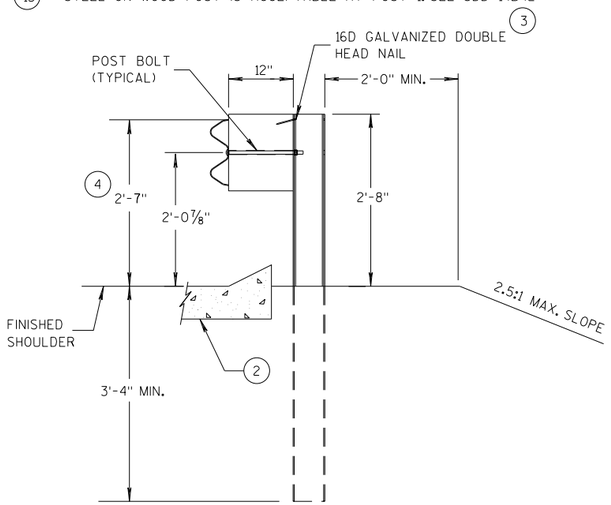
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

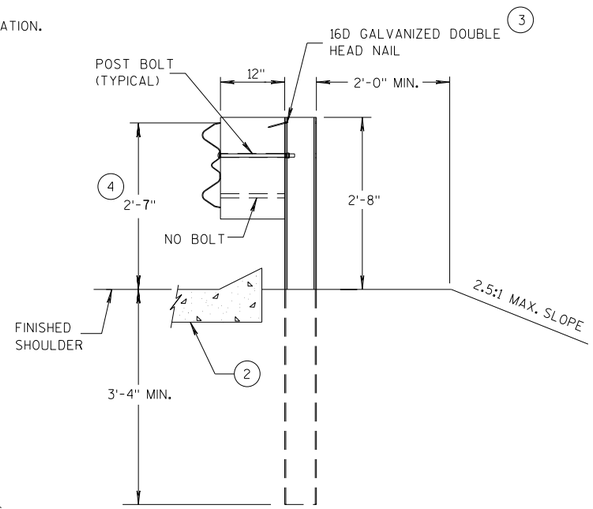
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



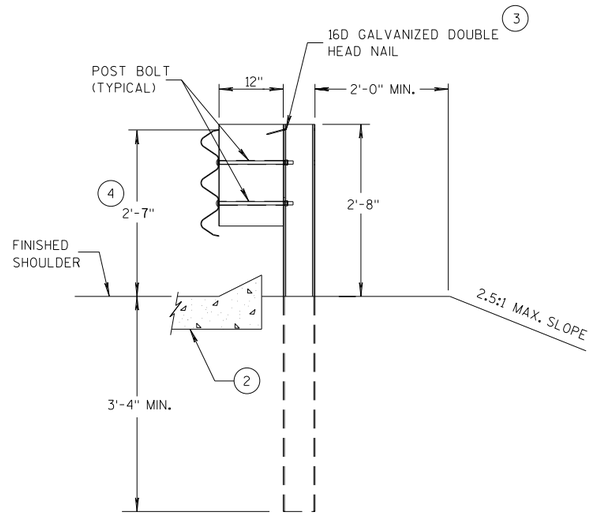
SECTION A-A (13)

POSTS 1-5



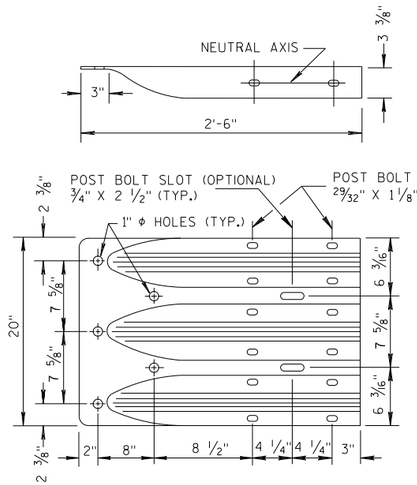
SECTION B-B

POST 6

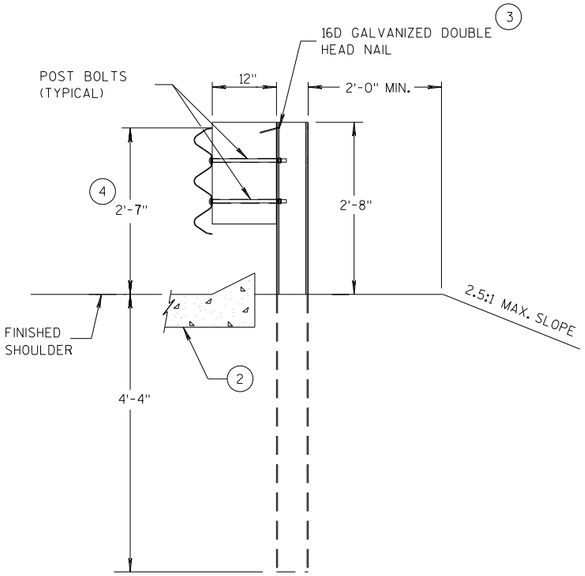


SECTION C-C

POSTS 7-11

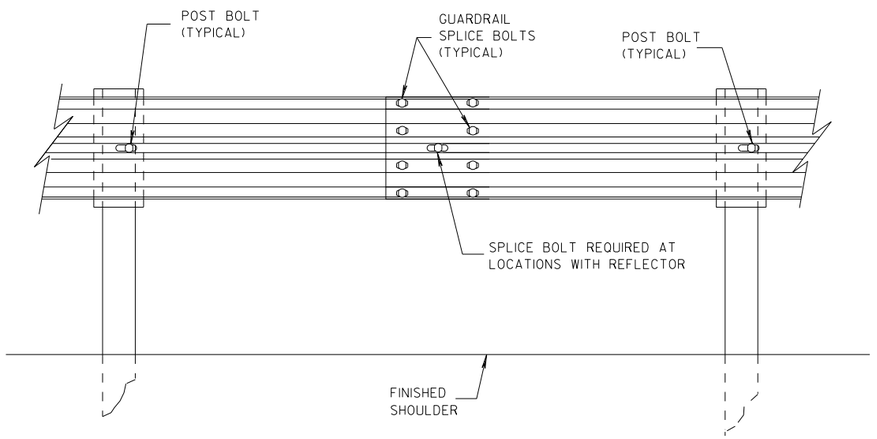


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

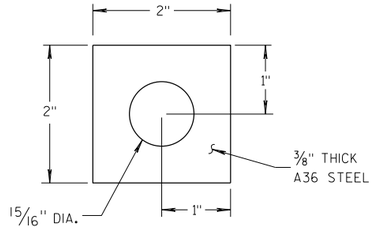
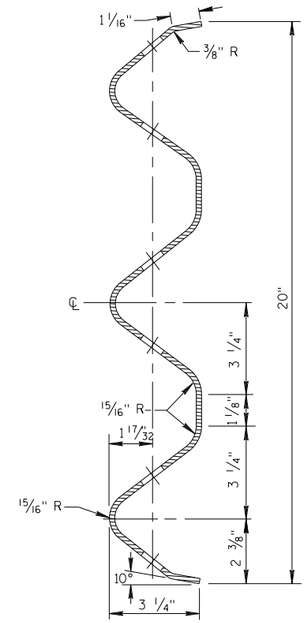


PLATE WASHER DETAIL



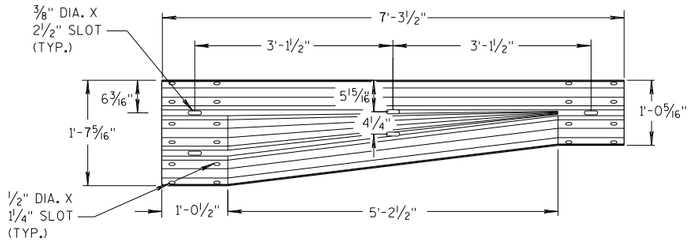
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

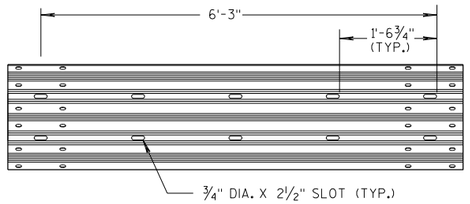
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

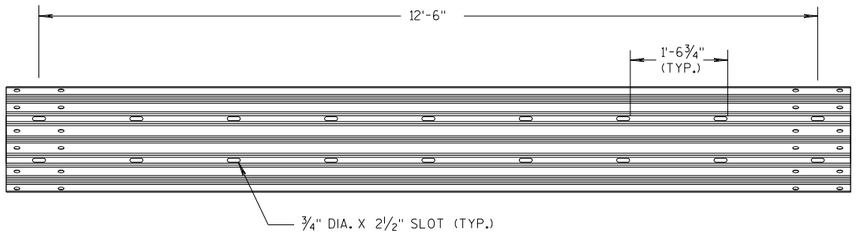
S.D.D. 14 B 45-5b



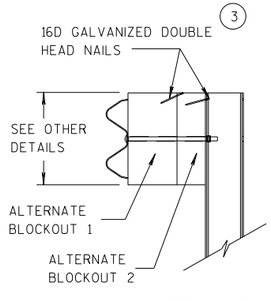
W-BEAM TO THRIE BEAM TRANSITION SECTION



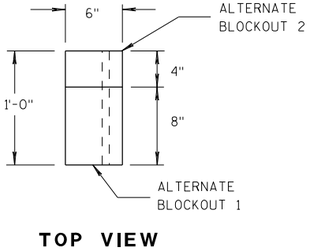
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

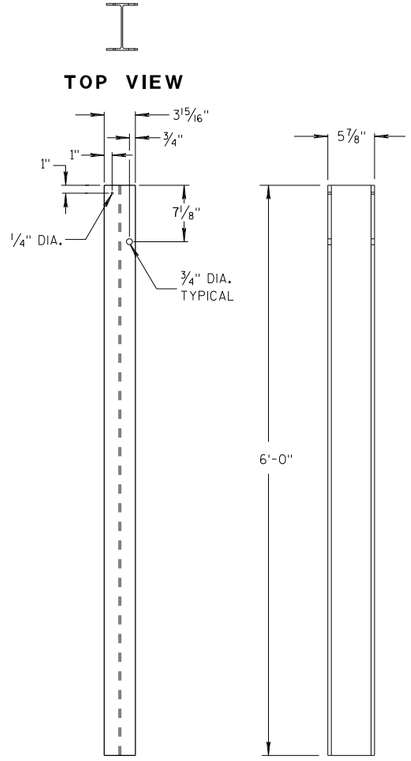


SIDE VIEW



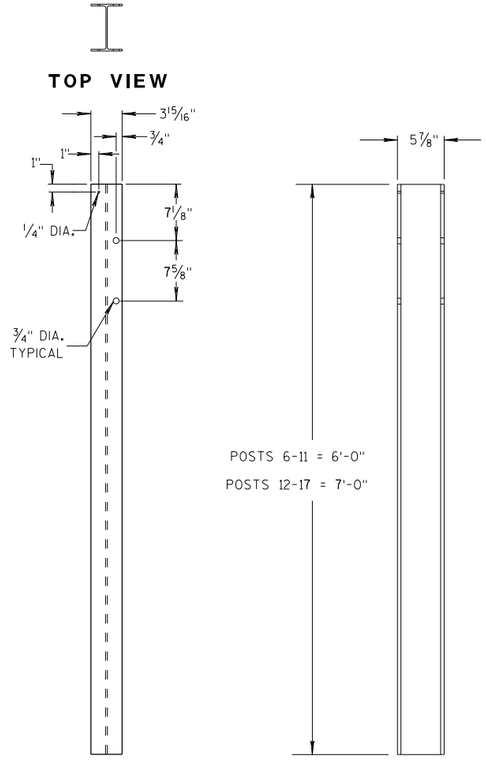
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



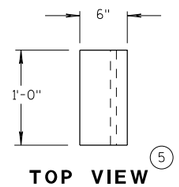
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

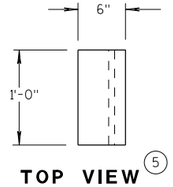


FRONT VIEW SIDE VIEW

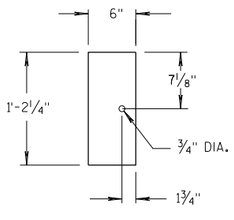
STEEL POSTS 6-17



TOP VIEW (5)

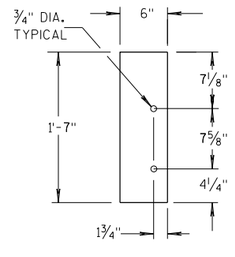


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

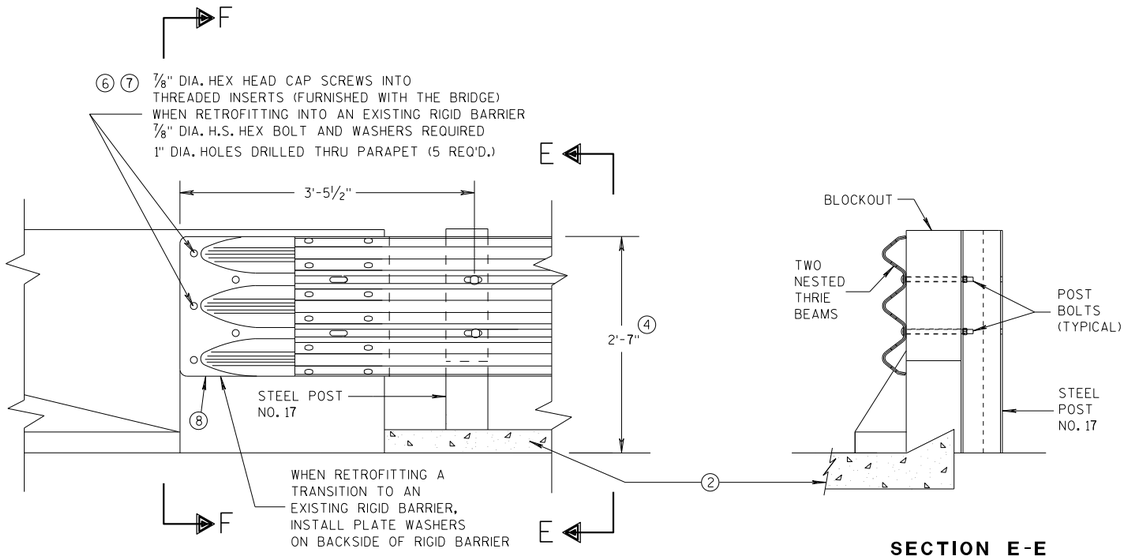
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF 737

6
S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

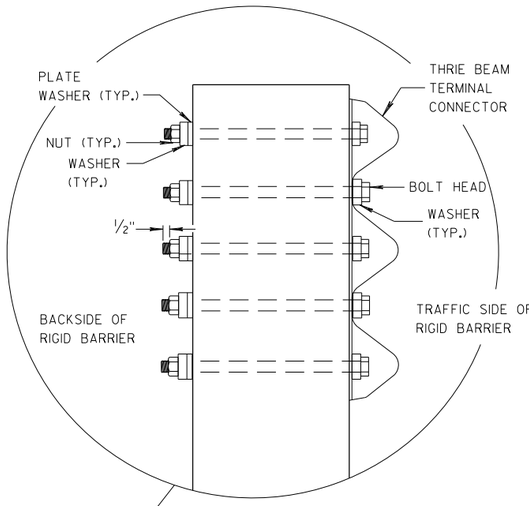
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

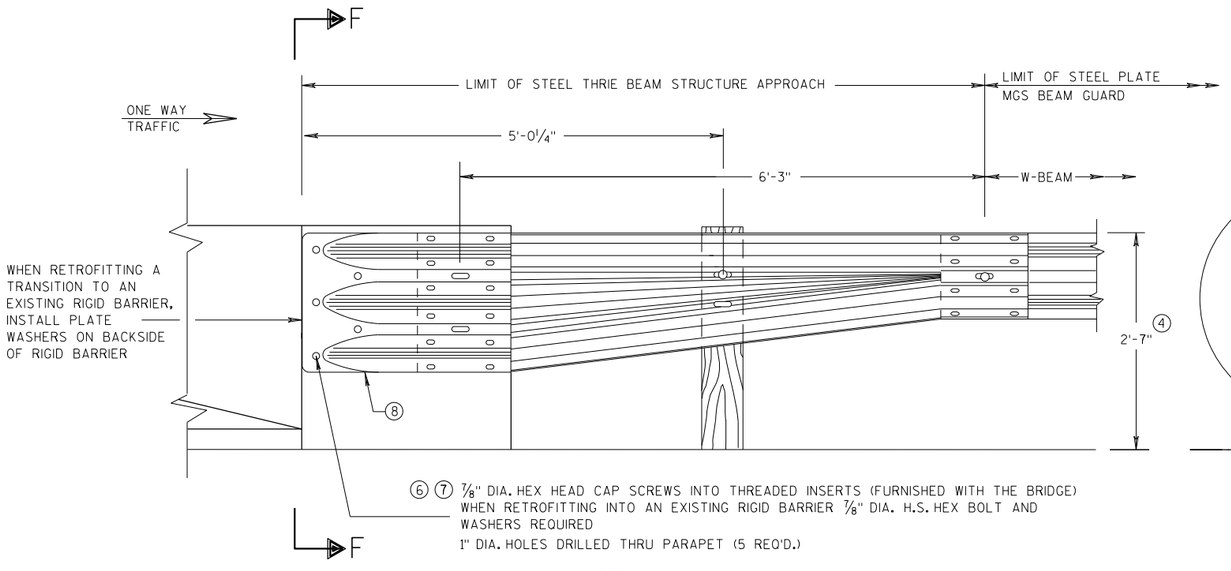
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

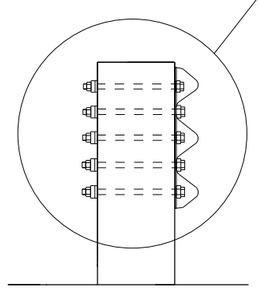
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

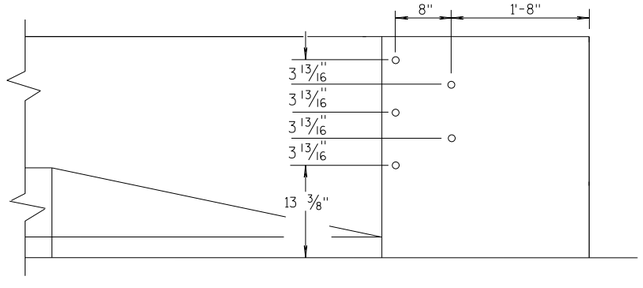




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D UNIT SUPERVIS NT
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GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

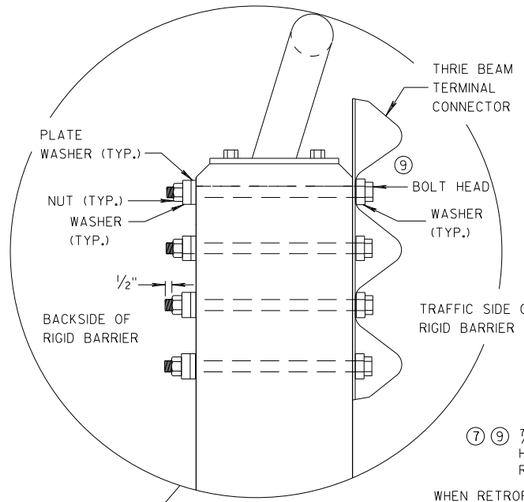
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

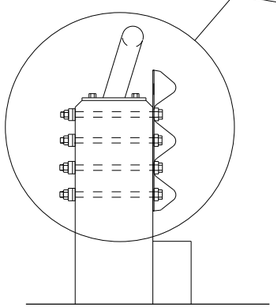
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

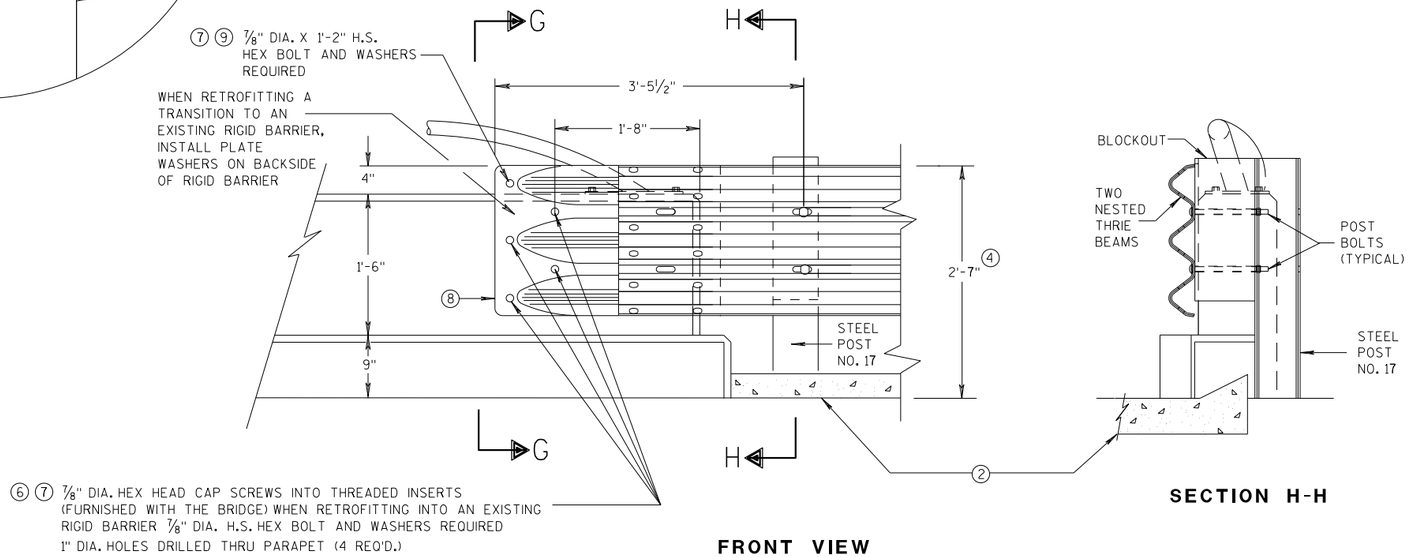
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





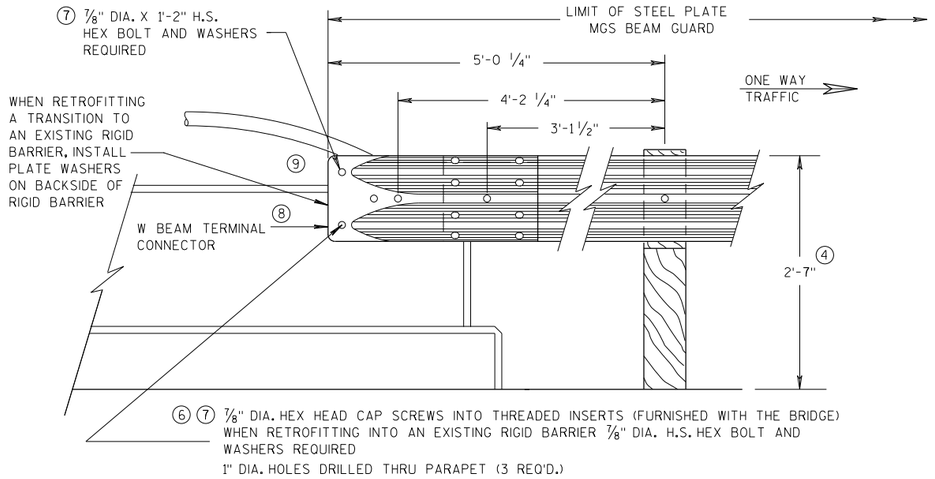
SECTION G-G



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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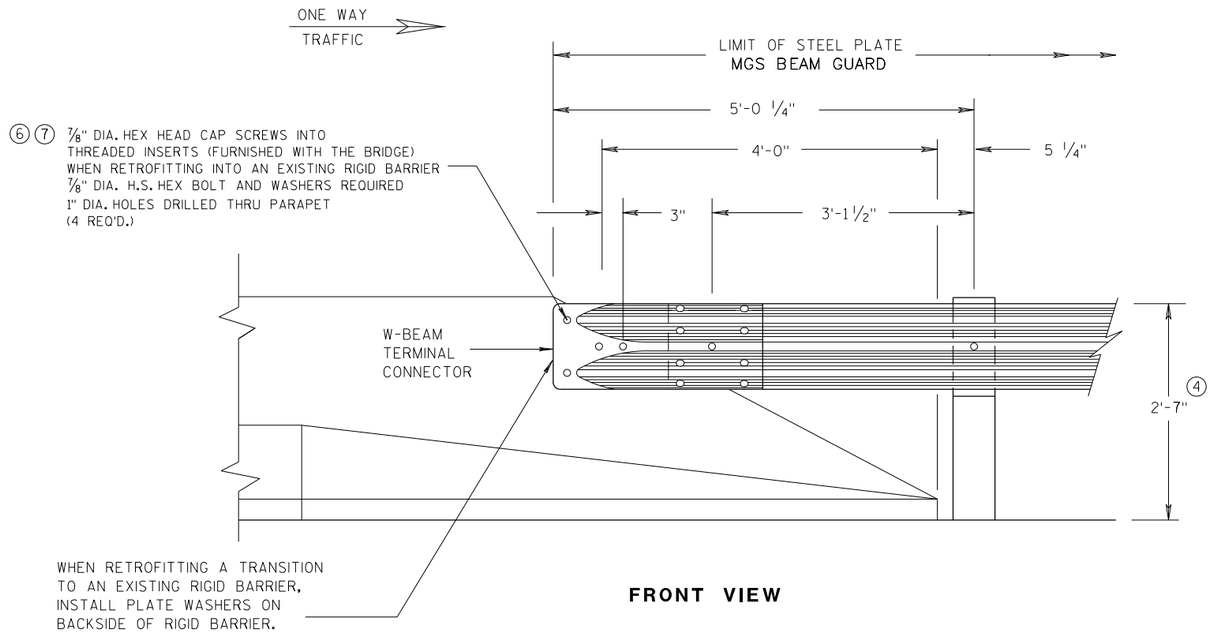

FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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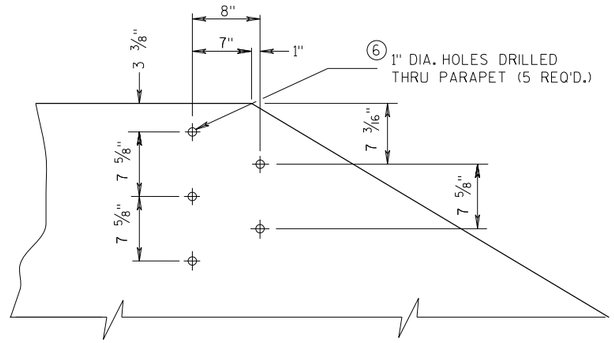
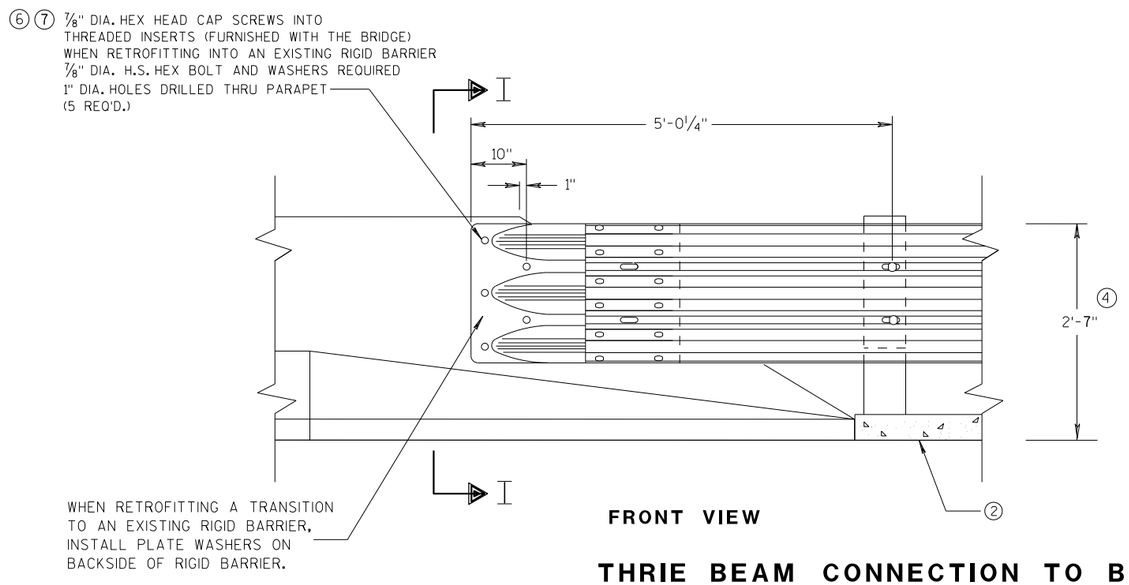
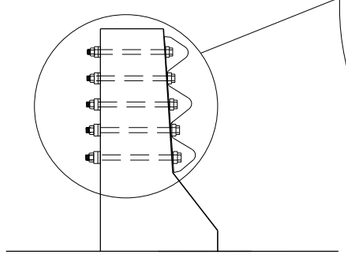


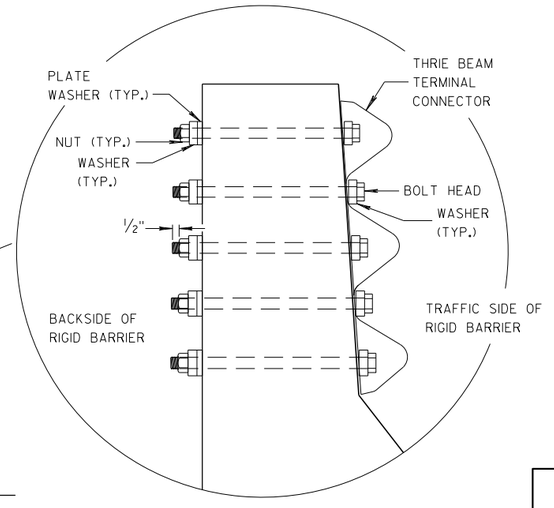
DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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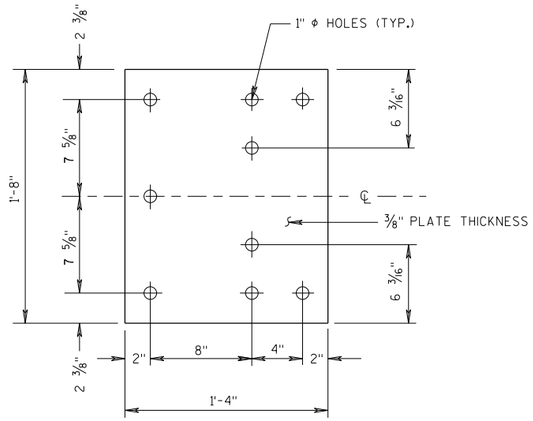
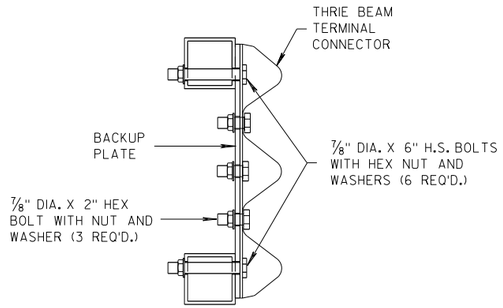


BACK-UP PLATE DETAIL

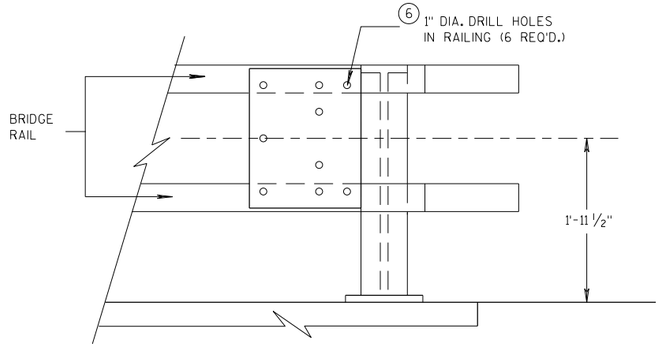


SECTION J-J

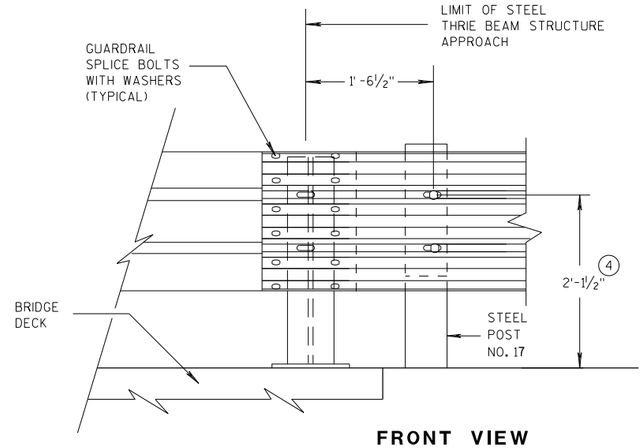
GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(6) DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

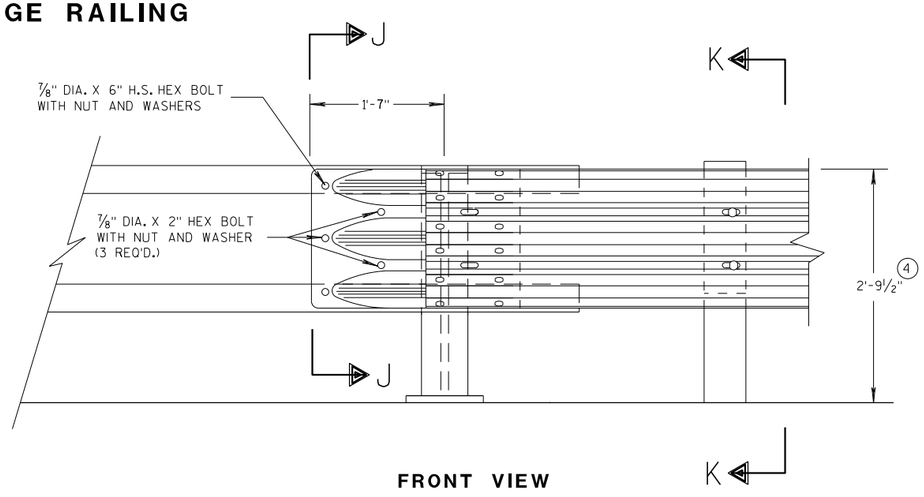


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

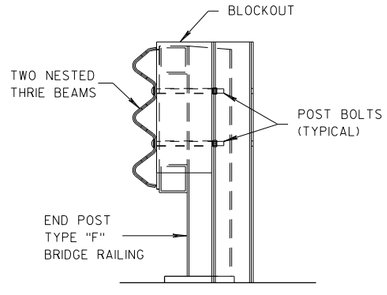


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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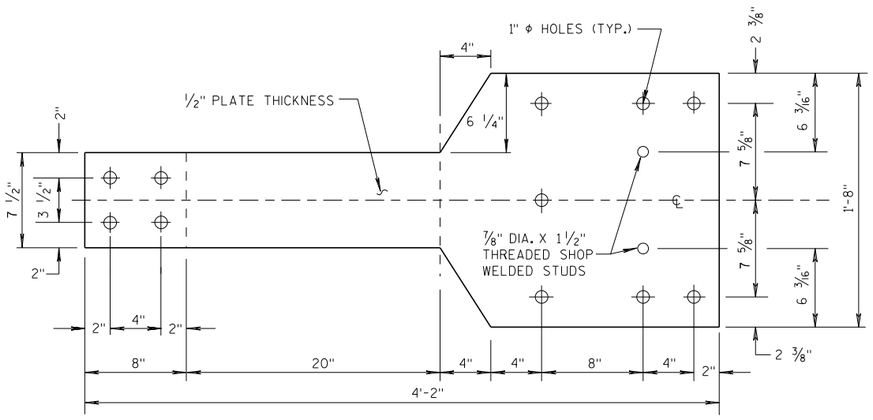
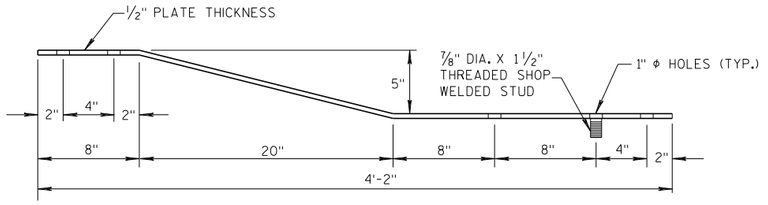
GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

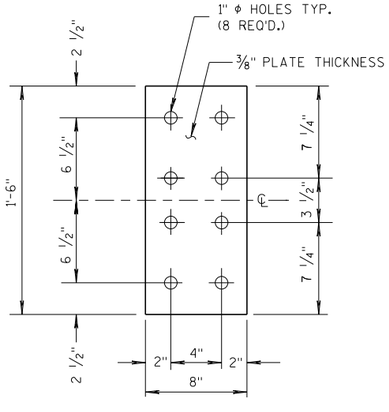


FRONT VIEW



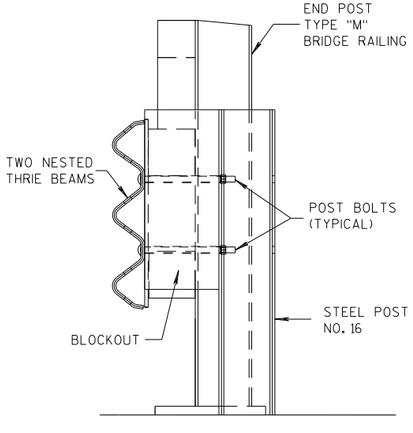
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

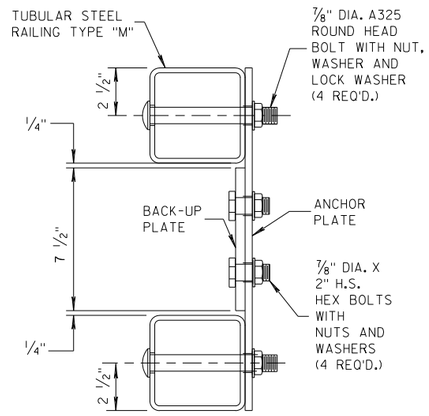


FRONT VIEW

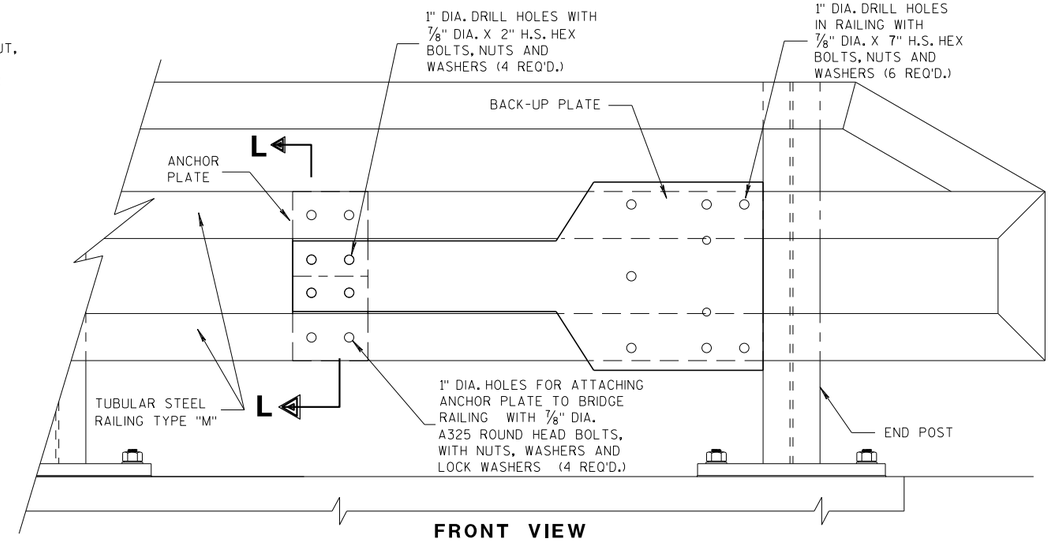
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

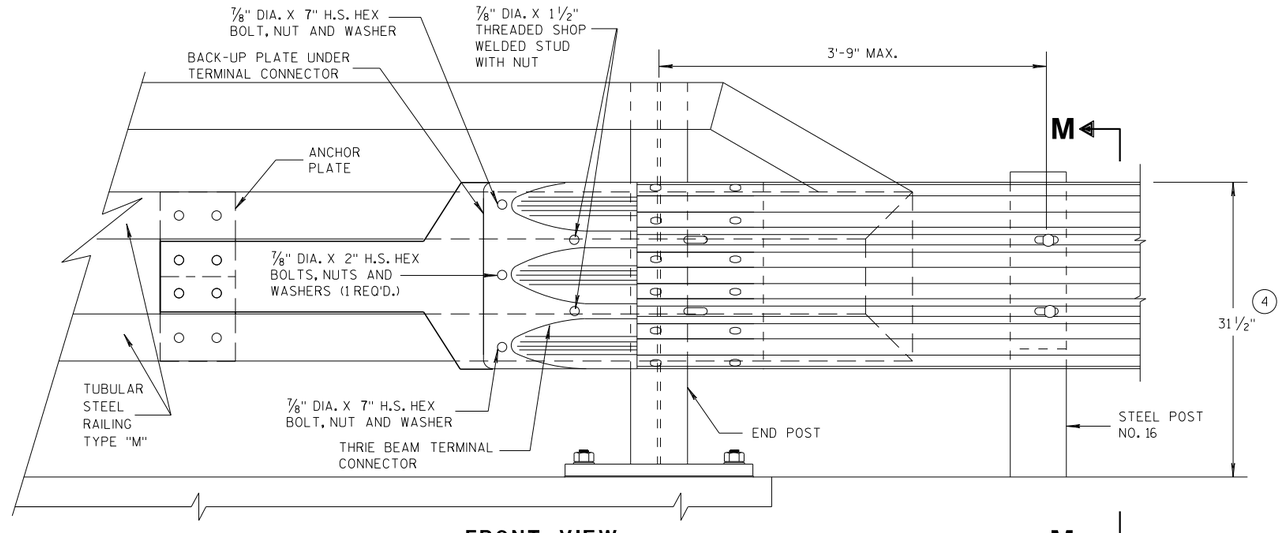


SECTION L-L

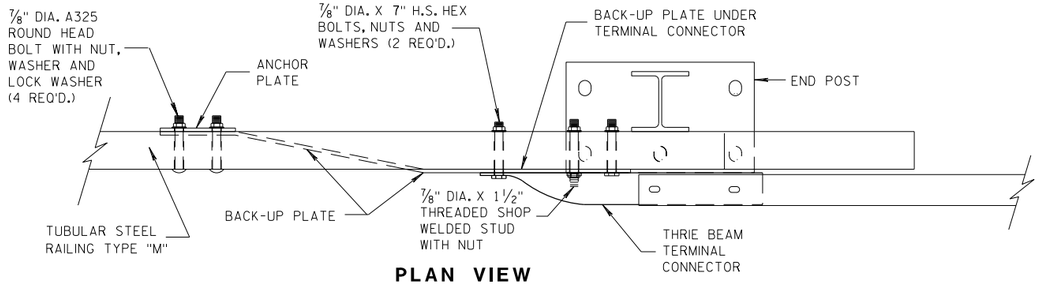


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
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GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

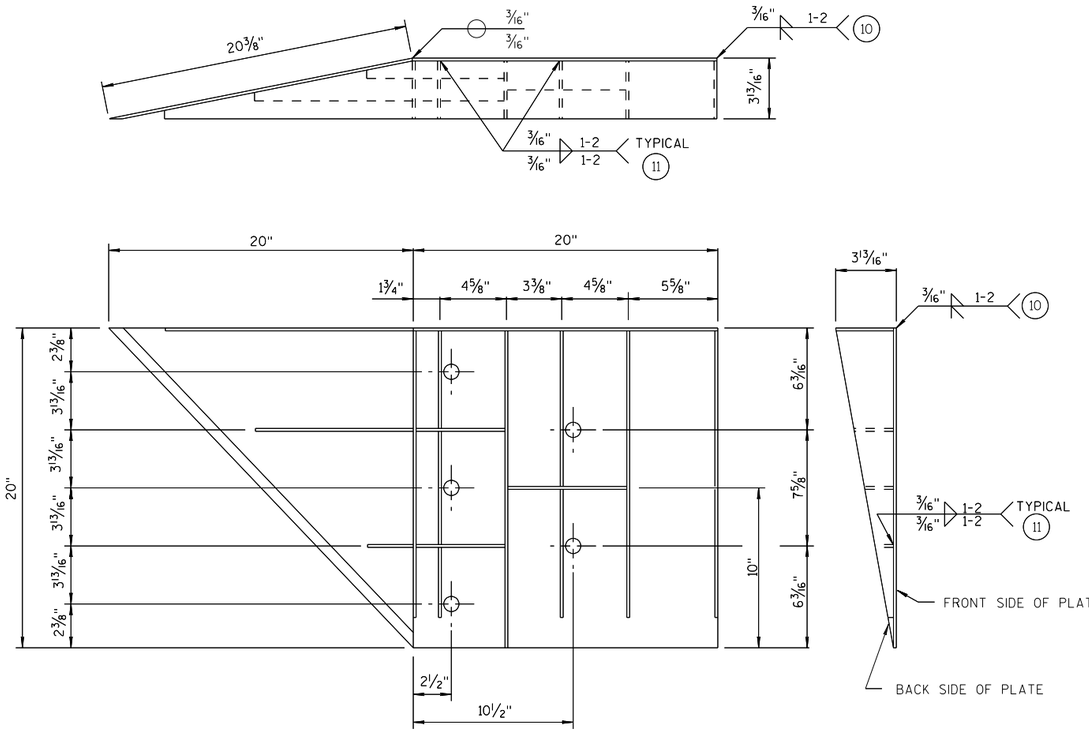
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

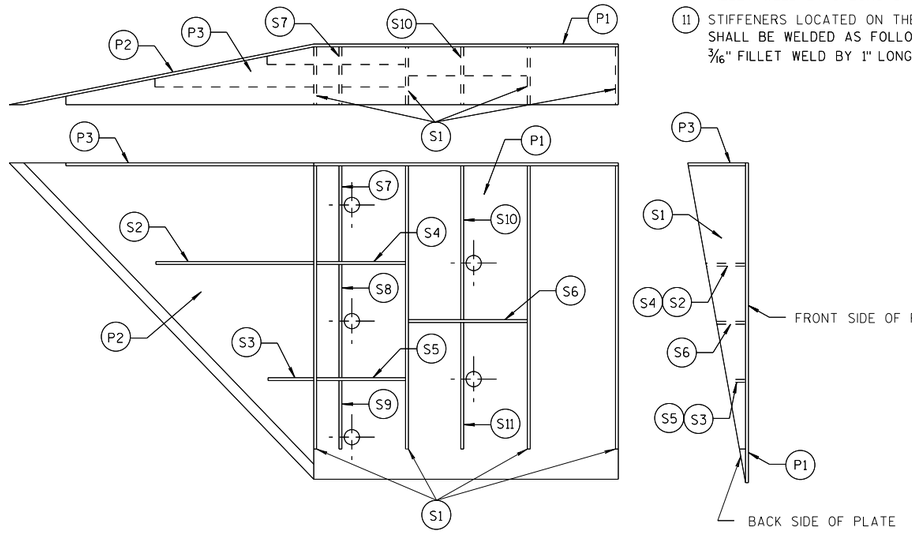


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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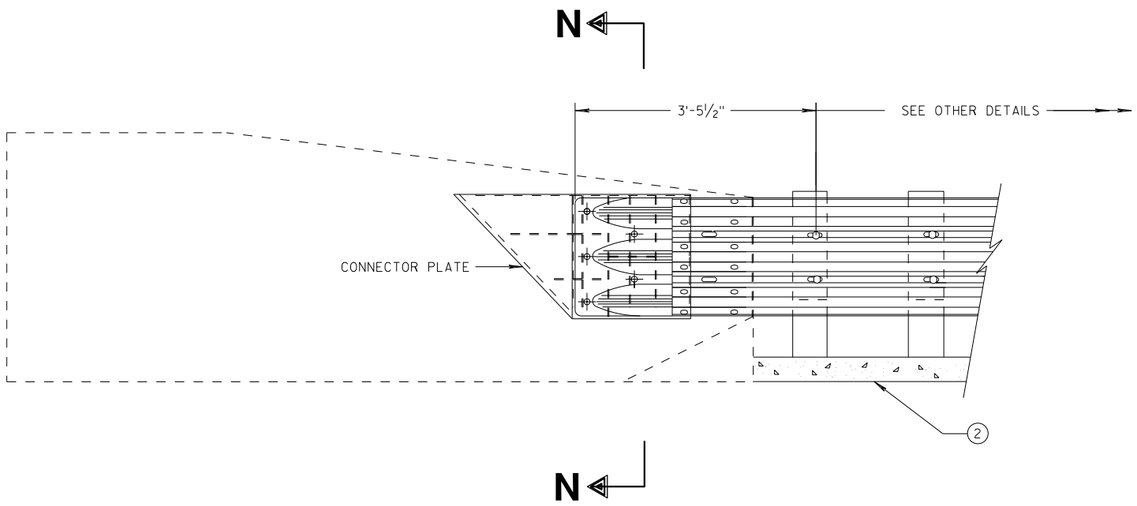
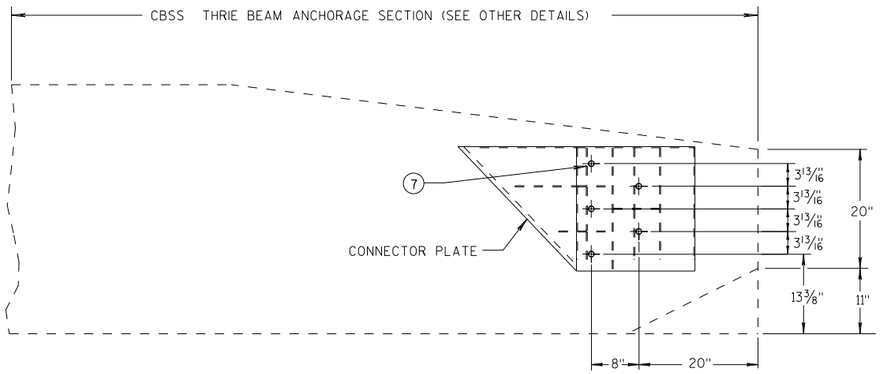


THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



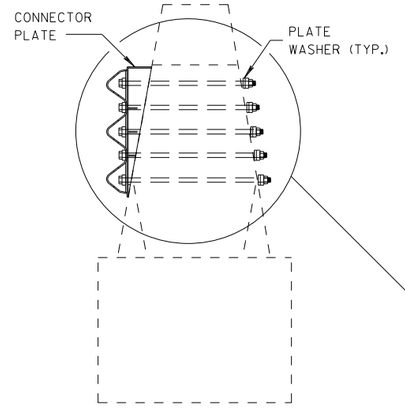
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

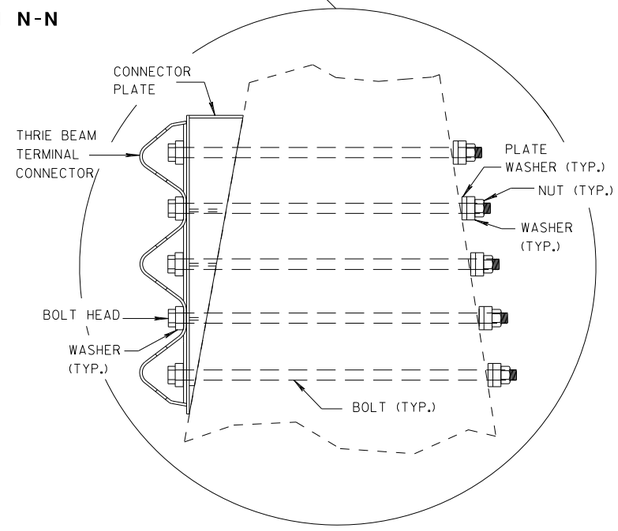
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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S.D.D. 14 B 45-5j

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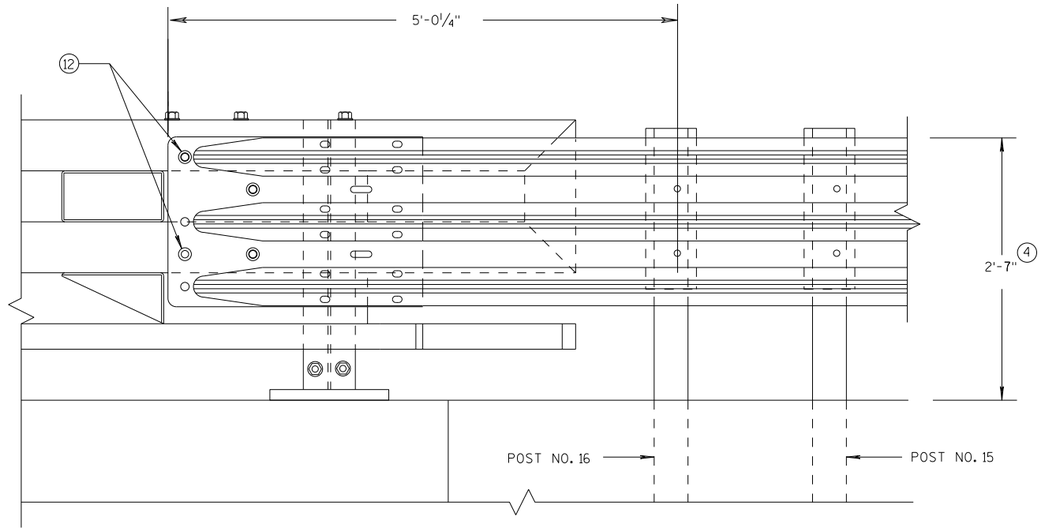
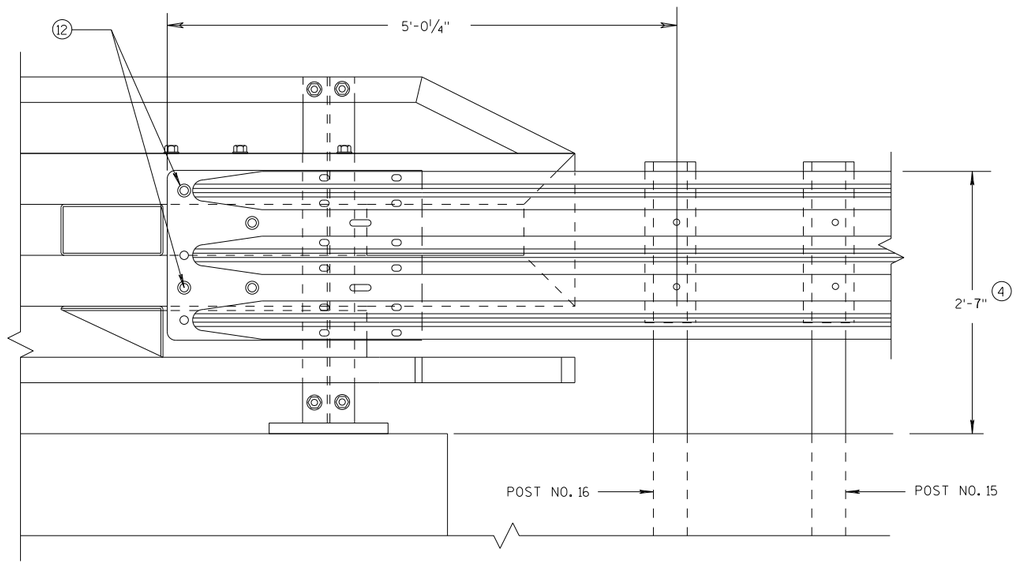
S.D.D. 14 B 45-5j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

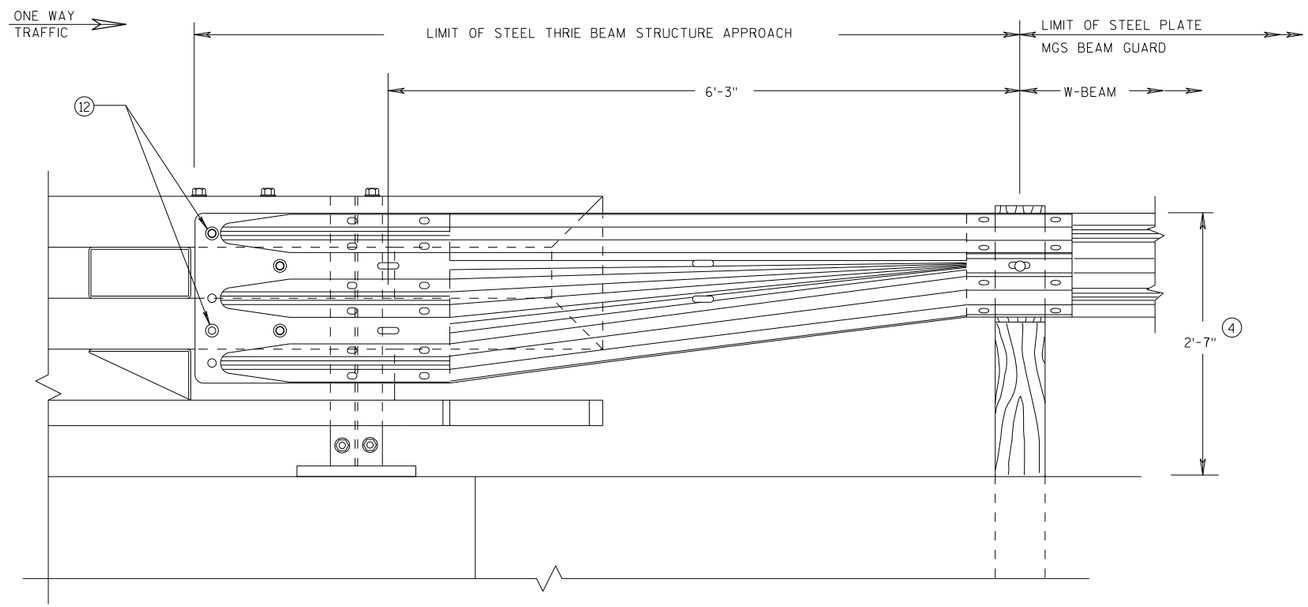
/S/ Rodney Taylor
ROADWAY STANDARDS D 745 NT
UNIT SUPERVIS

6

S.D.D. 14 B 45-5k

6

S.D.D. 14 B 45-5k



FRONT VIEW

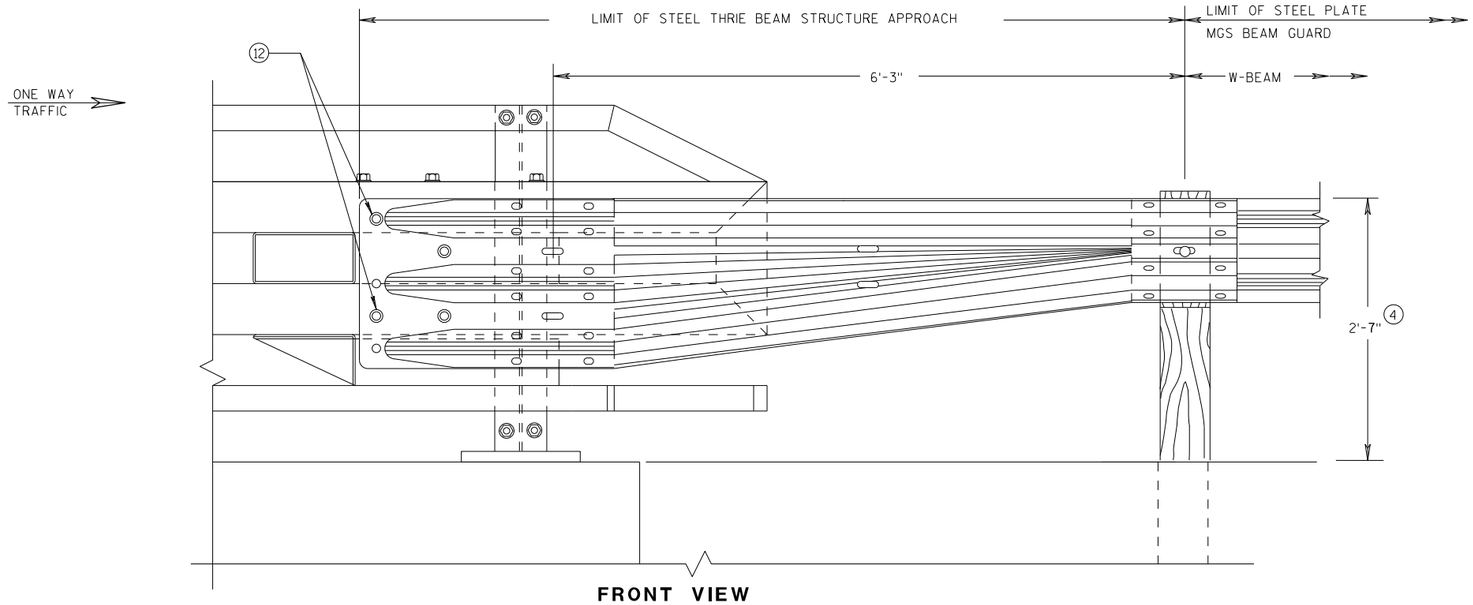
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS D
UNIT SUPERVIS

746

NT

6

S.D.D. 14 B 45-5L

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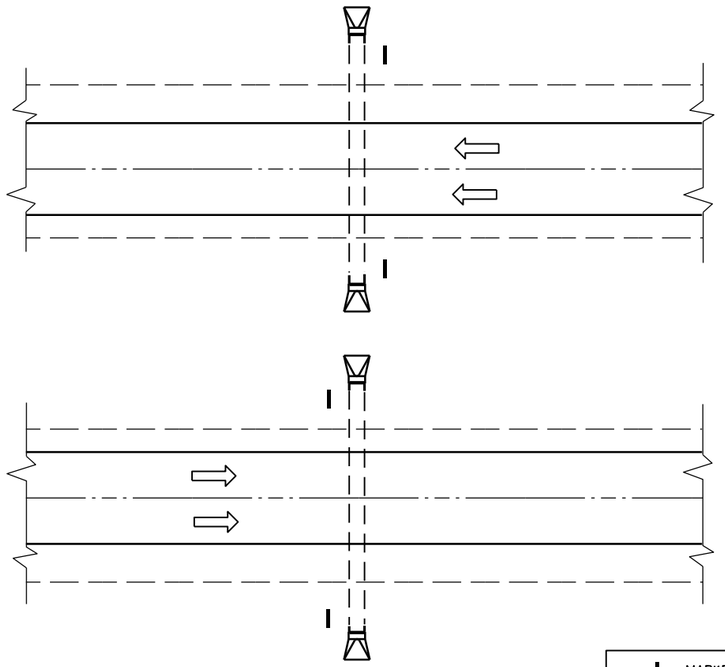
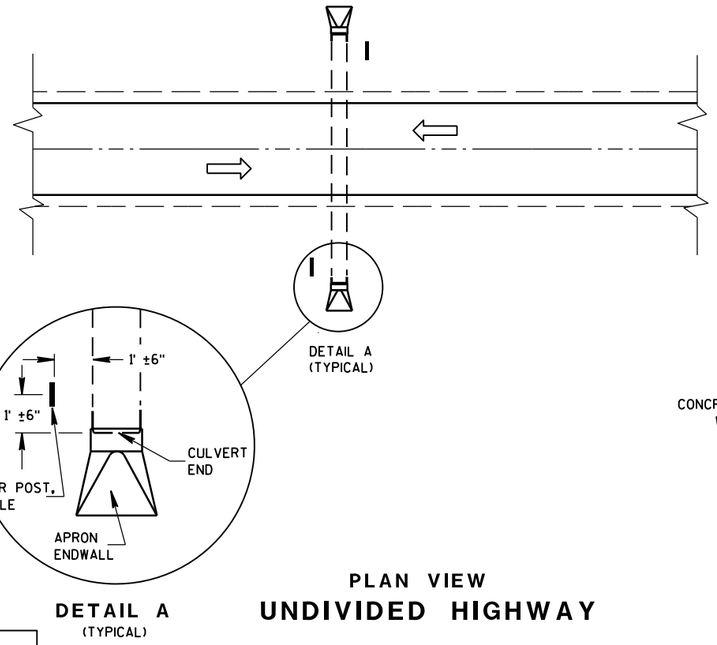
S.D.D. 14 B 45-5L



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

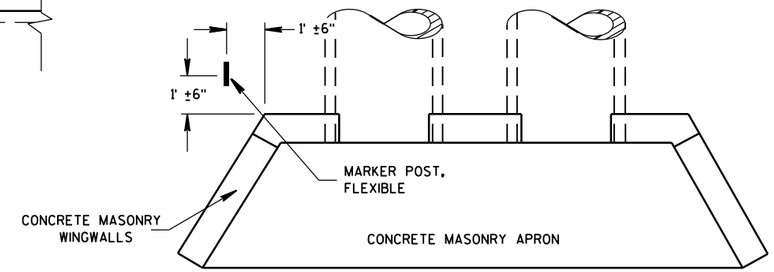
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

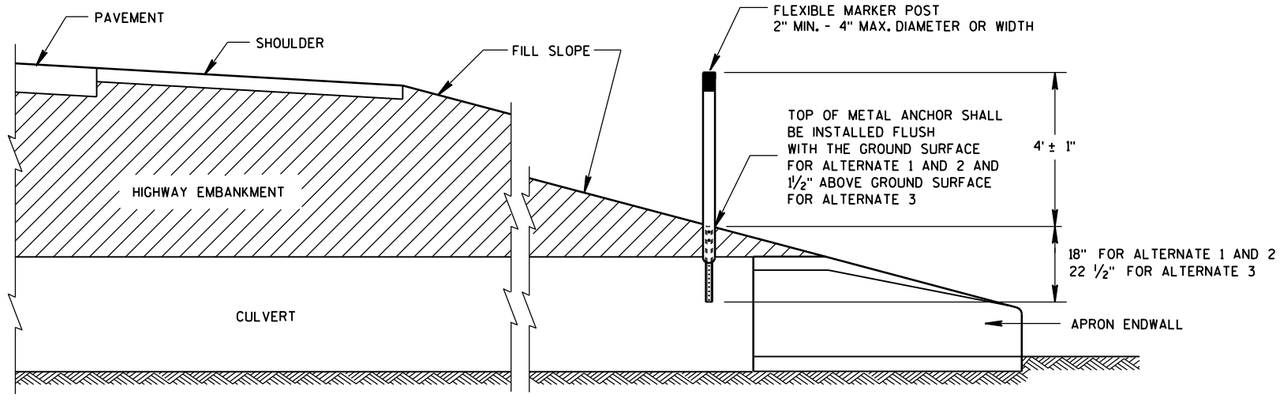
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 A 3-2a

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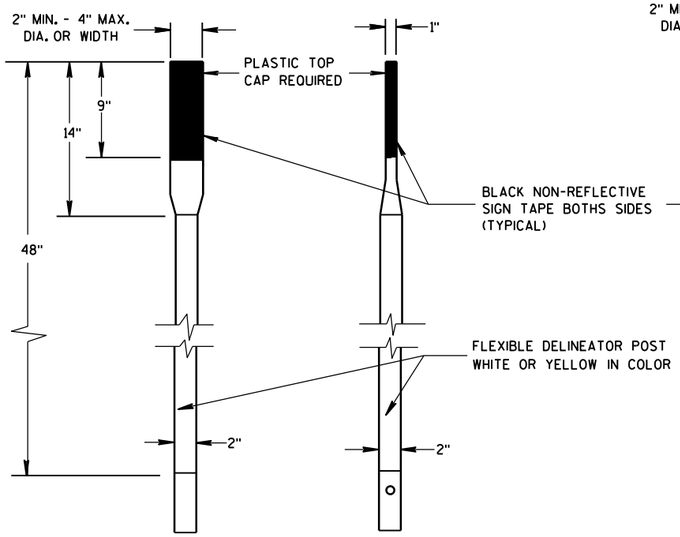
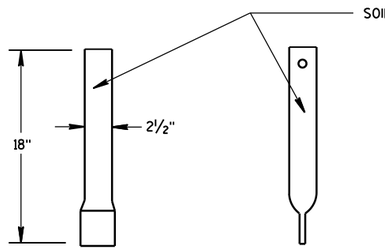
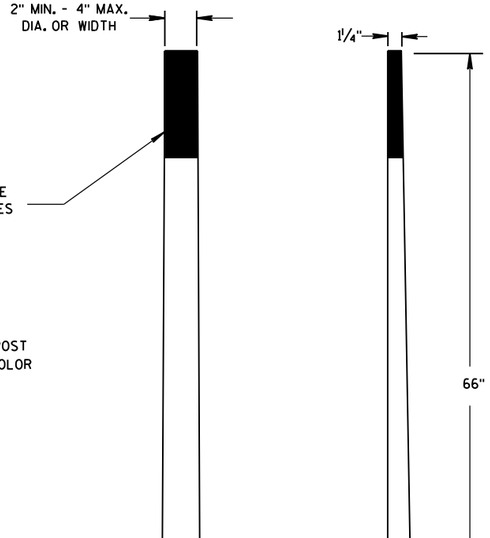
S.D.D. 15 A 3-2a





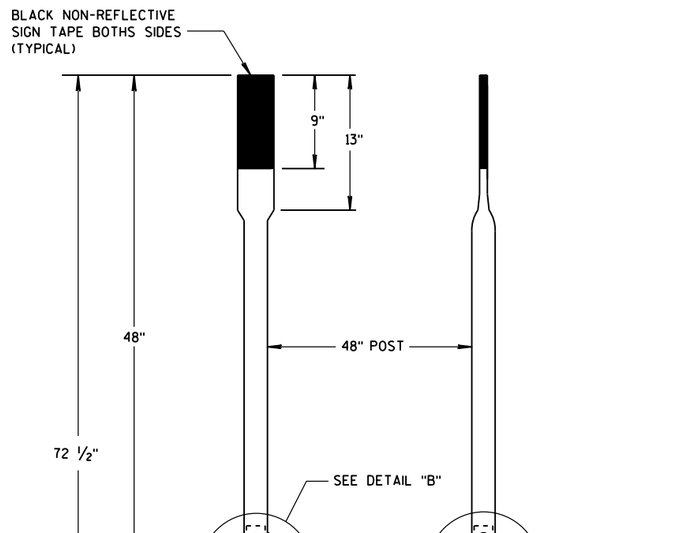
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

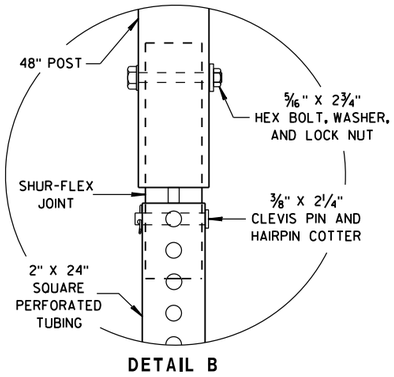
ALTERNATE 2



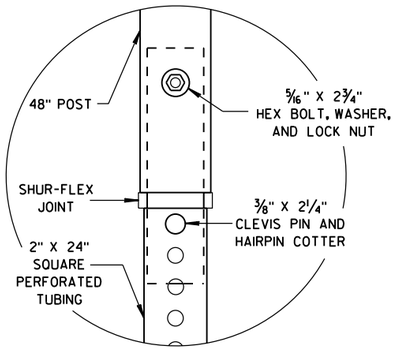
FRONT VIEW SIDE VIEW

ALTERNATE 3

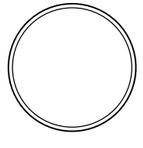
FLEXIBLE MARKER POSTS



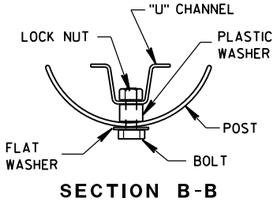
DETAIL B



DETAIL C



SECTION A-A



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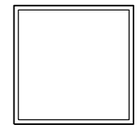

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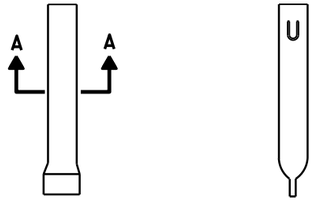
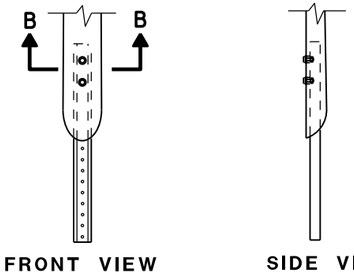


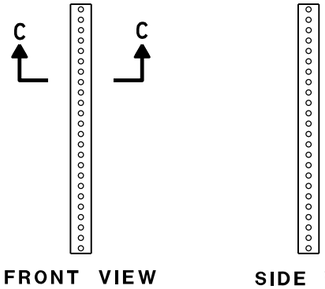
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

748

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S.D.D. 15 A 3-2b

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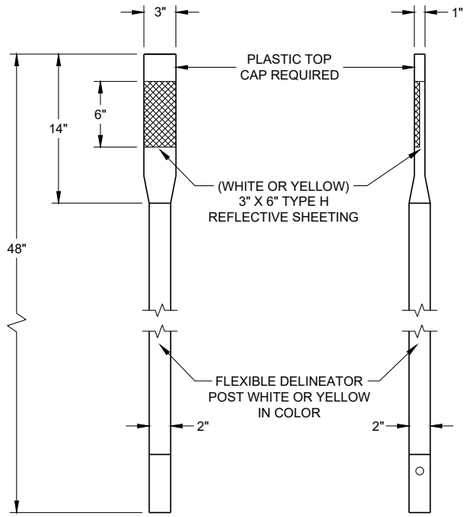
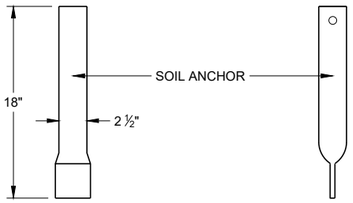
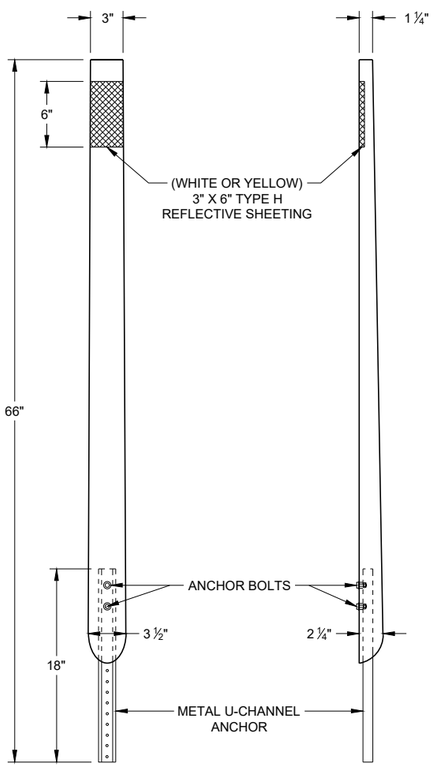
S.D.D. 15 A 3-2b





FRONT VIEW SIDE VIEW

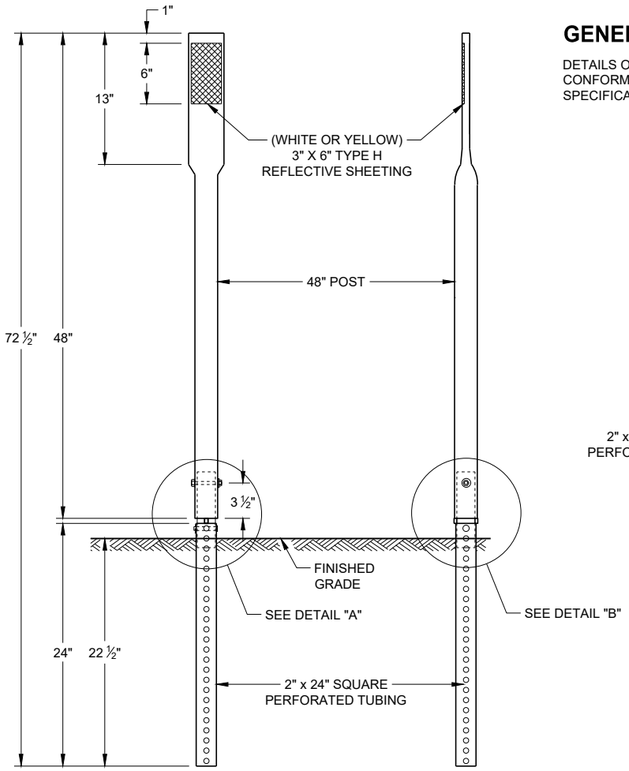
ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2

FLEXIBLE DELINEATOR POSTS

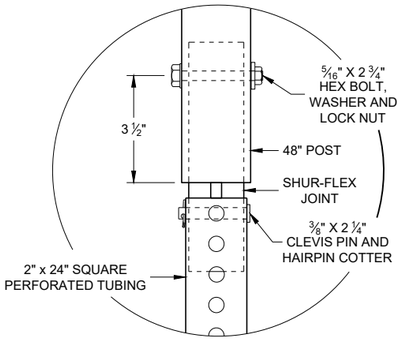


FRONT VIEW SIDE VIEW

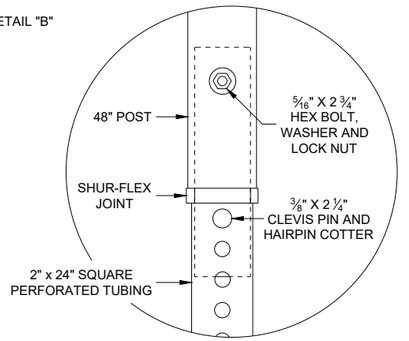
ALTERNATE 3

GENERAL NOTES

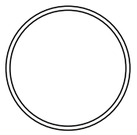
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



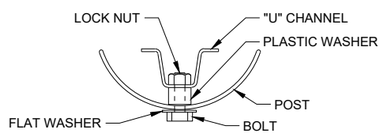
DETAIL A



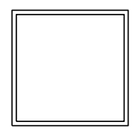
DETAIL B



SECTION A - A



SECTION B - B

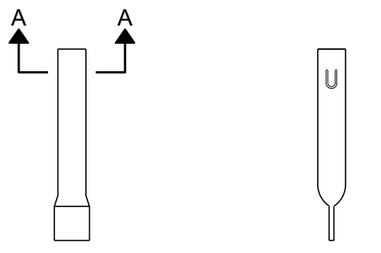


SECTION C - C

REFLECTOR SPACING TABLE

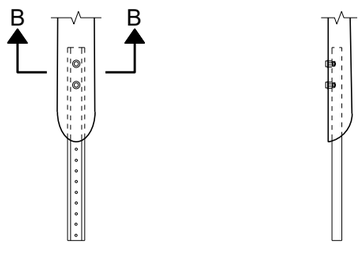
REFLECTOR SPACING	LOCATION
* 100' C-C	RAMPS
400' C-C	MAINLINE

* START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER



FRONT VIEW SIDE VIEW

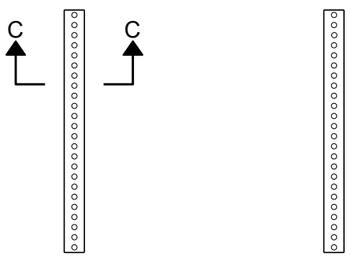
ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2

FLEXIBLE MARKER POST ANCHORS



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE DELINEATOR POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAR ENGINEER

FHWA

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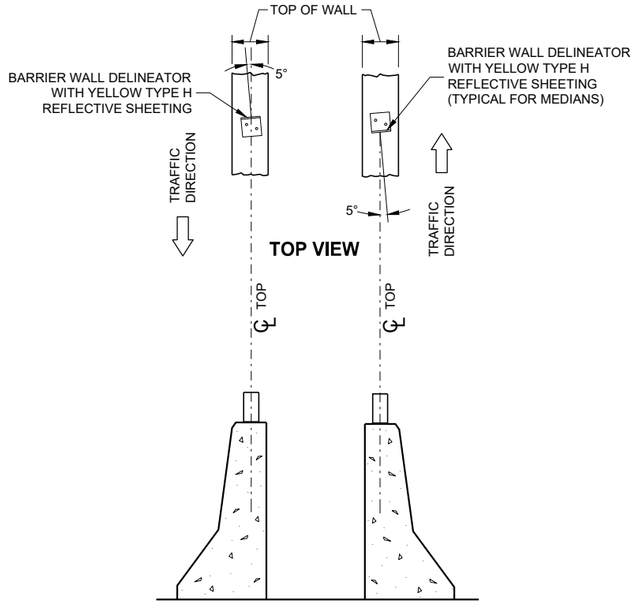
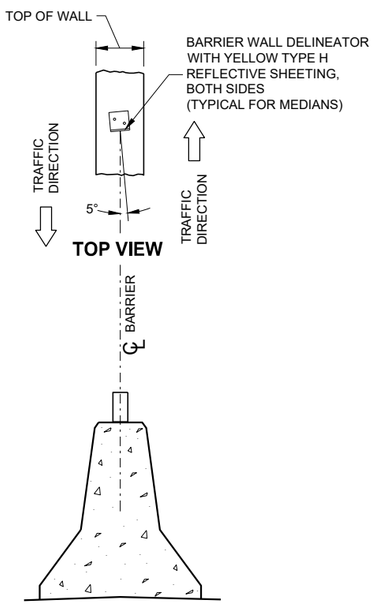
SDD 15A04 - 07a

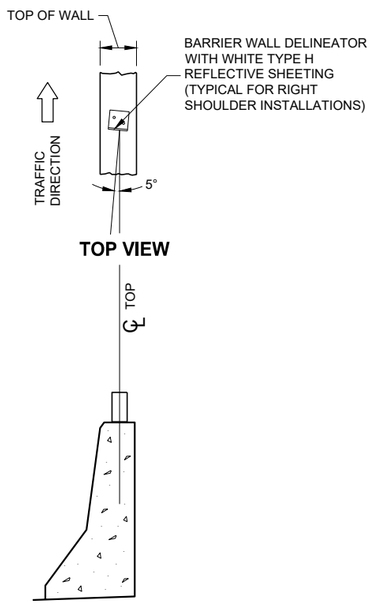
SDD 15A04 - 07a



SIDE VIEW
DOUBLE BARRIERS IN MEDIAN

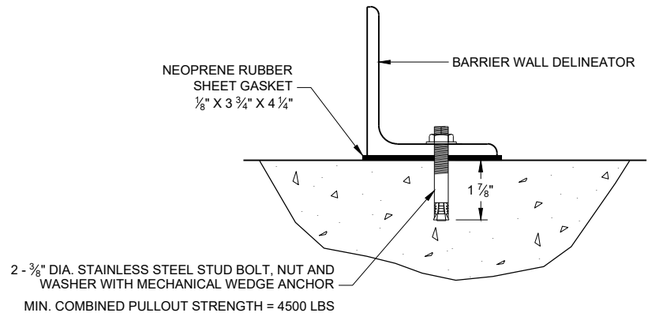


SIDE VIEW
MEDIAN BARRIER

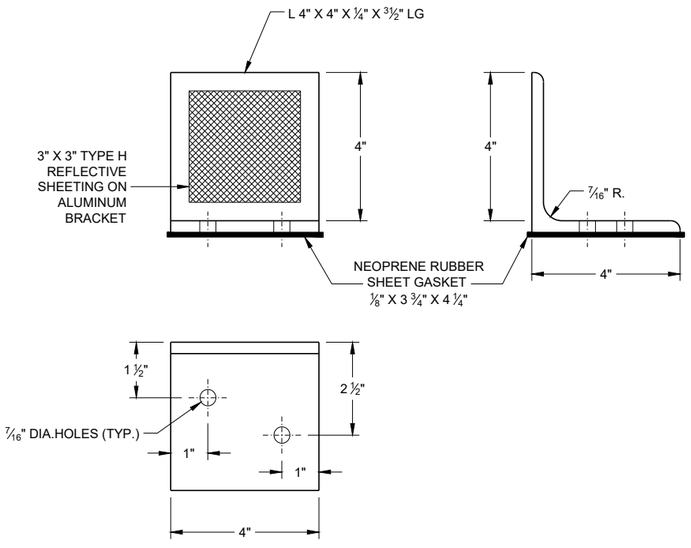


SIDE VIEW
TO RIGHT OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR BARRIER WALL DELINEATOR MOUNTED ON CONCRETE BARRIERS



BARRIER WALL DELINEATOR MOUNTING DETAIL



BARRIER WALL DELINEATOR

REFLECTOR SPACING TABLE

REFLECTOR SPACING	MINIMUM NUMBER OF REFLECTORS
100' C-C	3

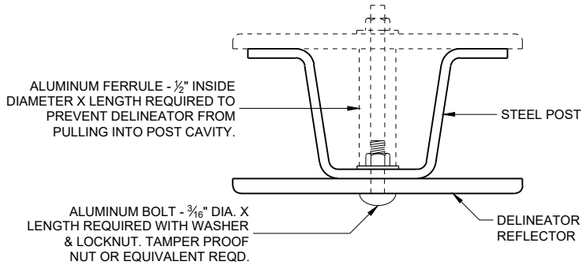
BARRIER WALL DELINEATOR WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

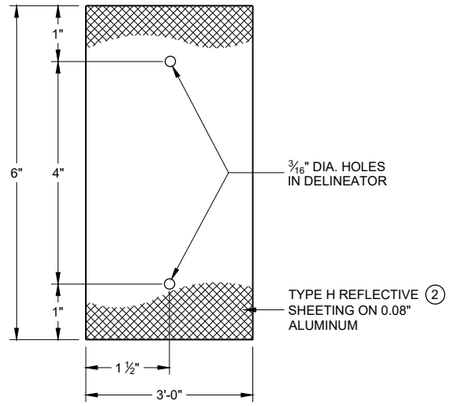
APPROVED
November 2021 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER
FHWA

SDD 15A04 - 07b

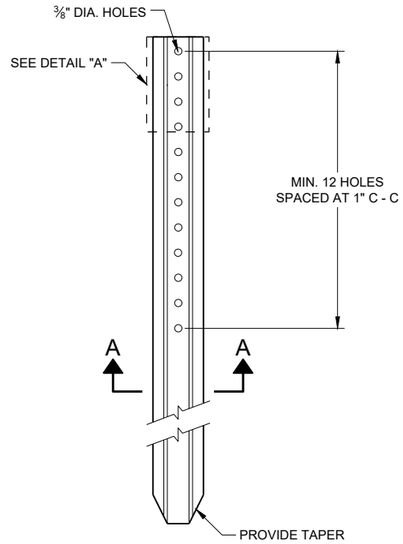
SDD 15A04 - 07b



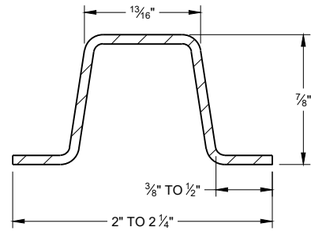
MOUNTING DETAIL FOR DELINEATOR REFLECTOR



DETAIL "A" 3" X 6" DELINEATOR REFLECTOR



DELINEATOR POST



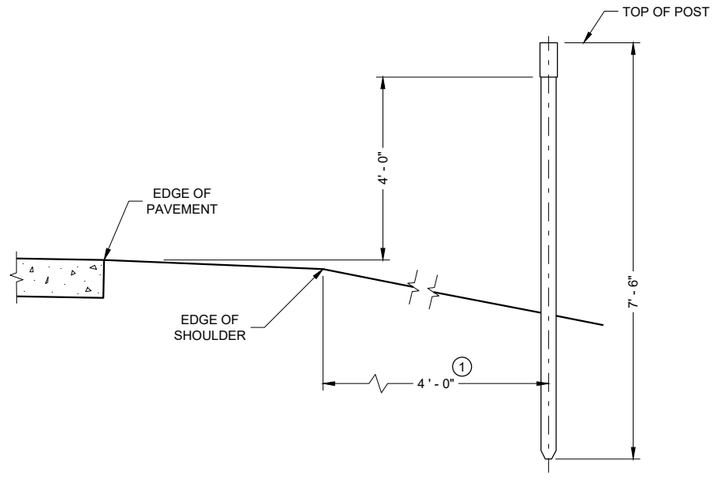
SECTION A - A

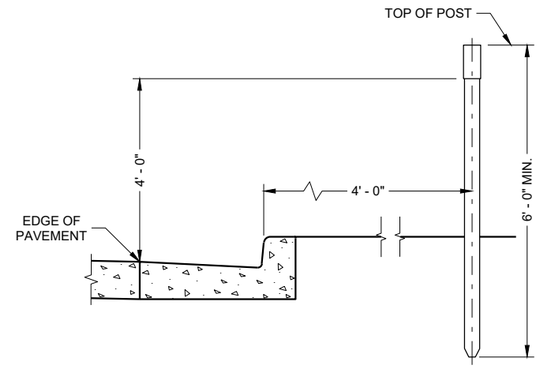
WEIGHT 1.12 LBS PER FT. \ 0.1 LB.

REFLECTOR SPACING TABLE

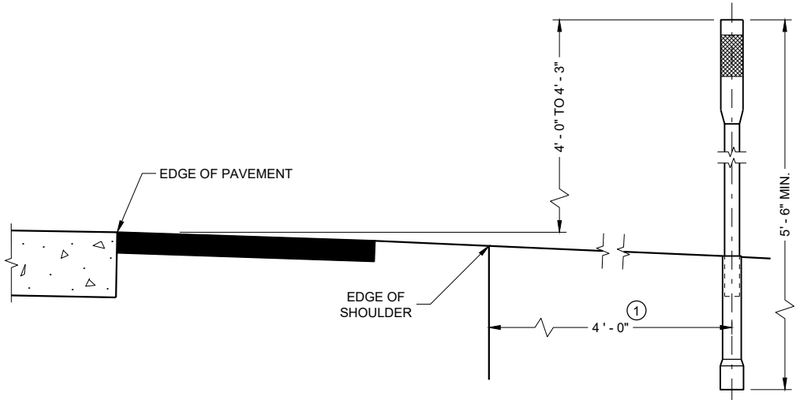
REFLECTOR SPACING	LOCATION
* 100' C-C	RAMPS
400' C-C	MAINLINE

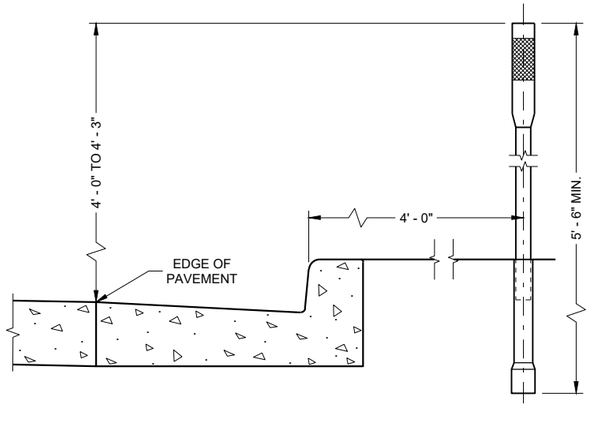
* START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER





TYPICAL INSTALLATIONS OF DELINEATOR POSTS





TYPICAL INSTALLATIONS OF FLEXIBLE DELINEATOR POSTS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF TEH STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

1. DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.
2. FURNISH TYPE H SHEETING FROM THE APPROVED PRODUCTS LIST.

DELINEATOR POST WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

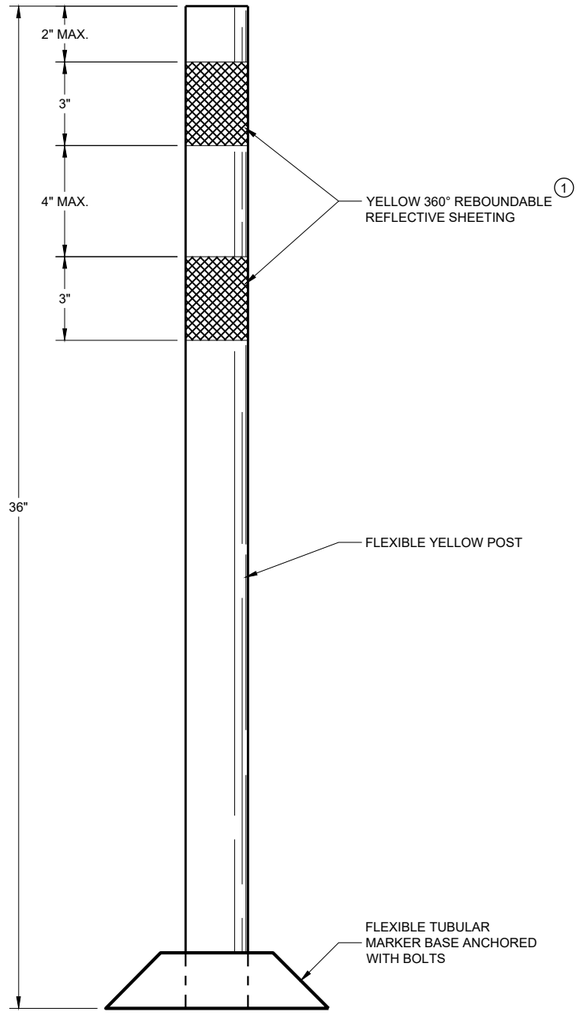
751

6

6

SDD 15A04 - 07c

SDD 15A04 - 07c



PERMANENT FLEXIBLE TUBULAR MARKER POST

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

6

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SDD 15A04 - 07d

SDD 15A04 - 07d

CHANNELIZING DEVICES
PERMANENT FLEXIBLE
TUBULAR MARKER POST

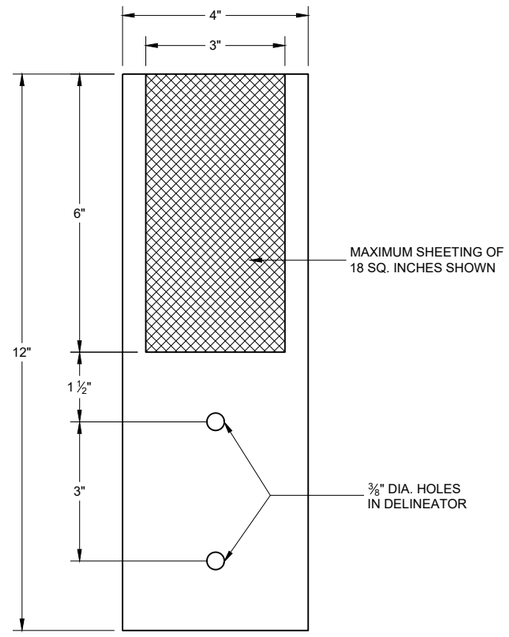
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2021
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAR ENGINEER

FHWA



4" x 12" DELINEATOR
WITH REFLECTIVE SHEETING

6

6

SDD 15A04 - 07e

SDD15A04 - 07e

DELINEATOR
WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2021
DATE

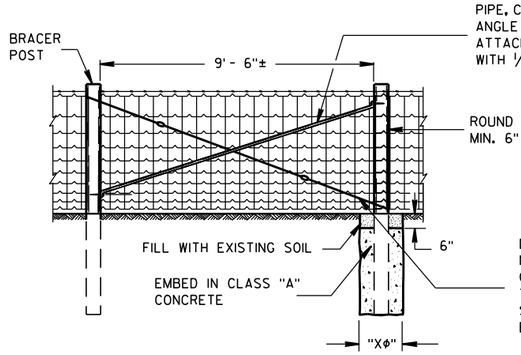
/S/ Matthew Rauch
STATE SIGNING AND MAR ENGINEER

753

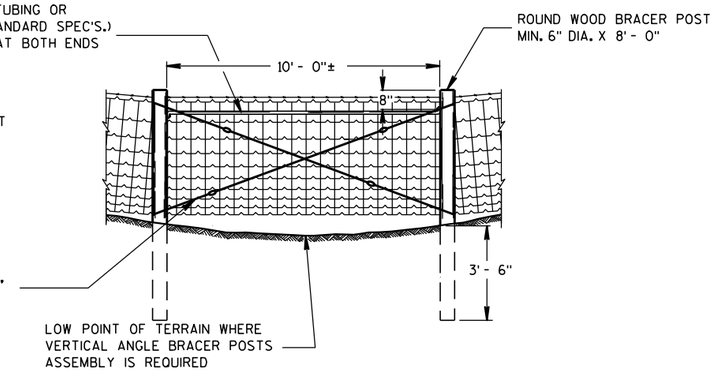
FHWA

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY

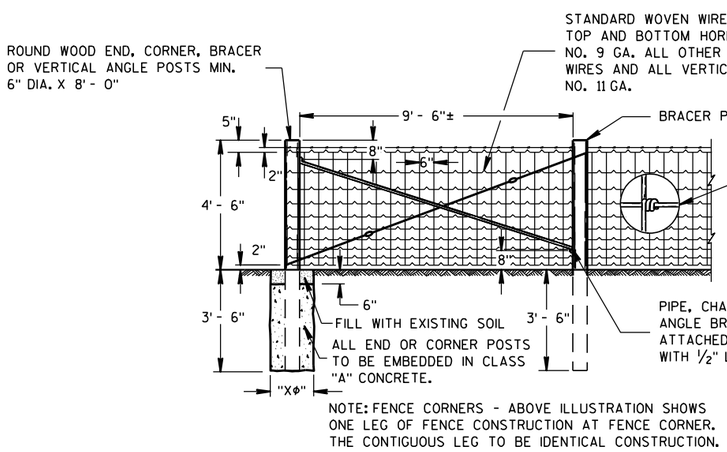
GENERAL NOTES

"XØ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

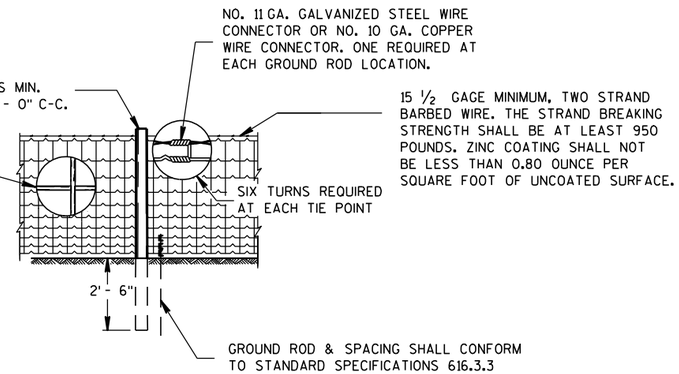
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.



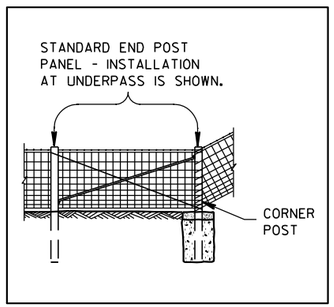
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

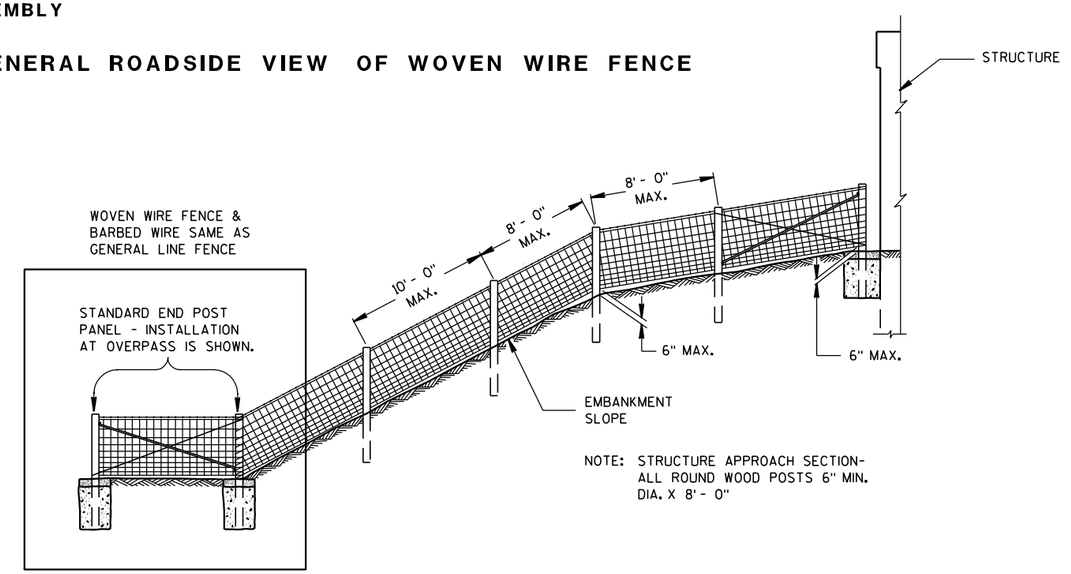


LINE FENCE CONSTRUCTION

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

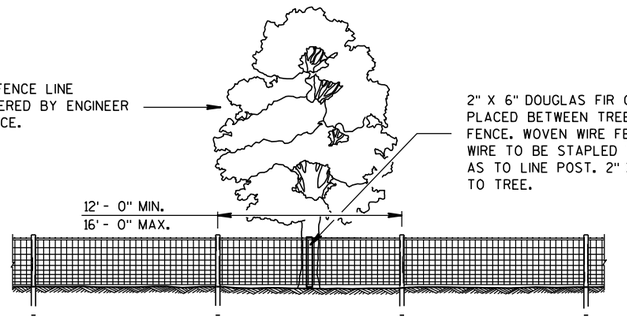
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

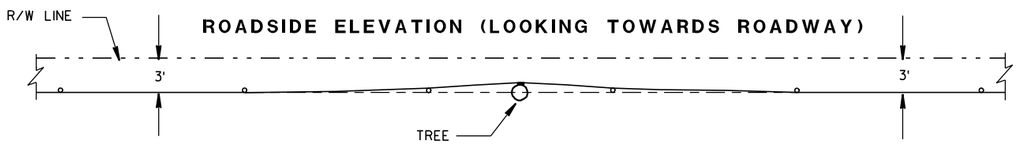
S.D.D. 15 B 1-8a

NOTE: TREE IN NORMAL FENCE LINE SPECIFICALLY ORDERED BY ENGINEER TO REMAIN IN PLACE.

2" X 6" DOUGLAS FIR OR SO. YELLOW PINE PLACED BETWEEN TREE AND WOVEN WIRE FENCE. WOVEN WIRE FENCE AND BARBED WIRE TO BE STAPLED TO 2" X 6" LIKE AS TO LINE POST. 2" X 6" NOT FASTENED TO TREE.

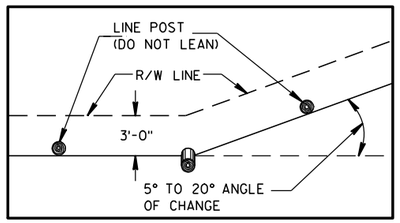


ROADSIDE ELEVATION (LOOKING TOWARDS ROADWAY)

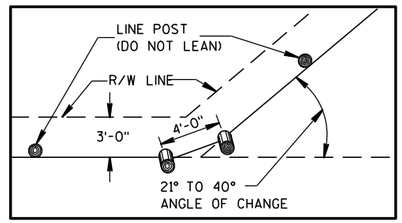


PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



PLAN VIEW
SINGLE POST CORNER

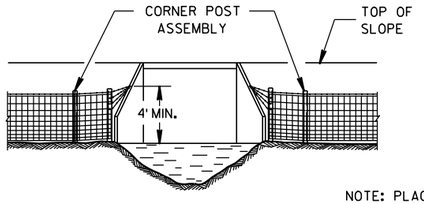


PLAN VIEW
DOUBLE POST CORNER

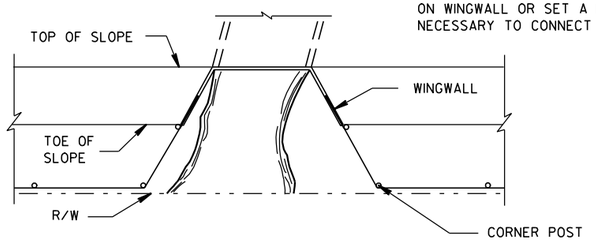
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

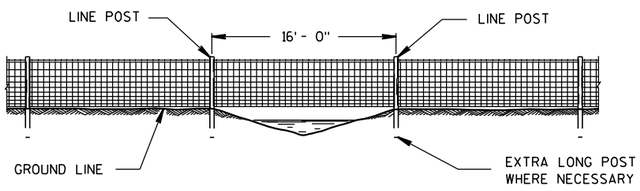
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



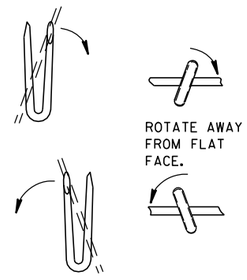
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

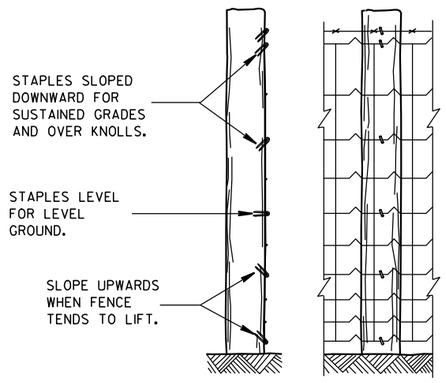


FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



LINE POST

NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.

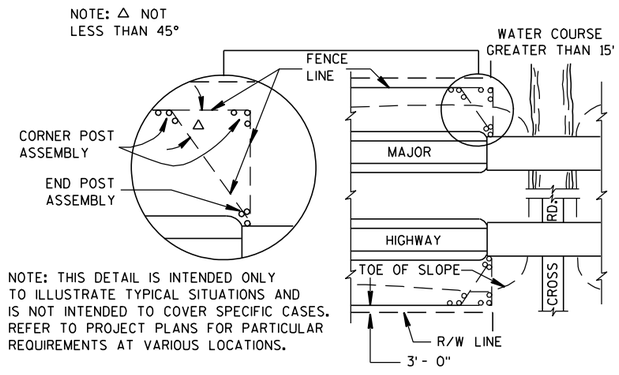


END ELEVATION

FARM SIDE ELEVATION

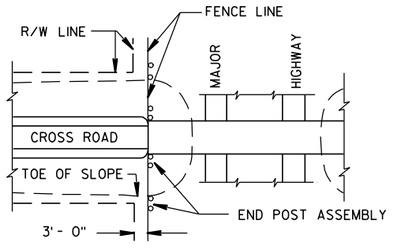
FENCE MOUNTING DETAIL

NOTE: △ NOT LESS THAN 45°



NOTE: THIS DETAIL IS INTENDED ONLY TO ILLUSTRATE TYPICAL SITUATIONS AND IS NOT INTENDED TO COVER SPECIFIC CASES. REFER TO PROJECT PLANS FOR PARTICULAR REQUIREMENTS AT VARIOUS LOCATIONS.

PLAN VIEW
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW
MAJOR HIGHWAY UNDERPASS

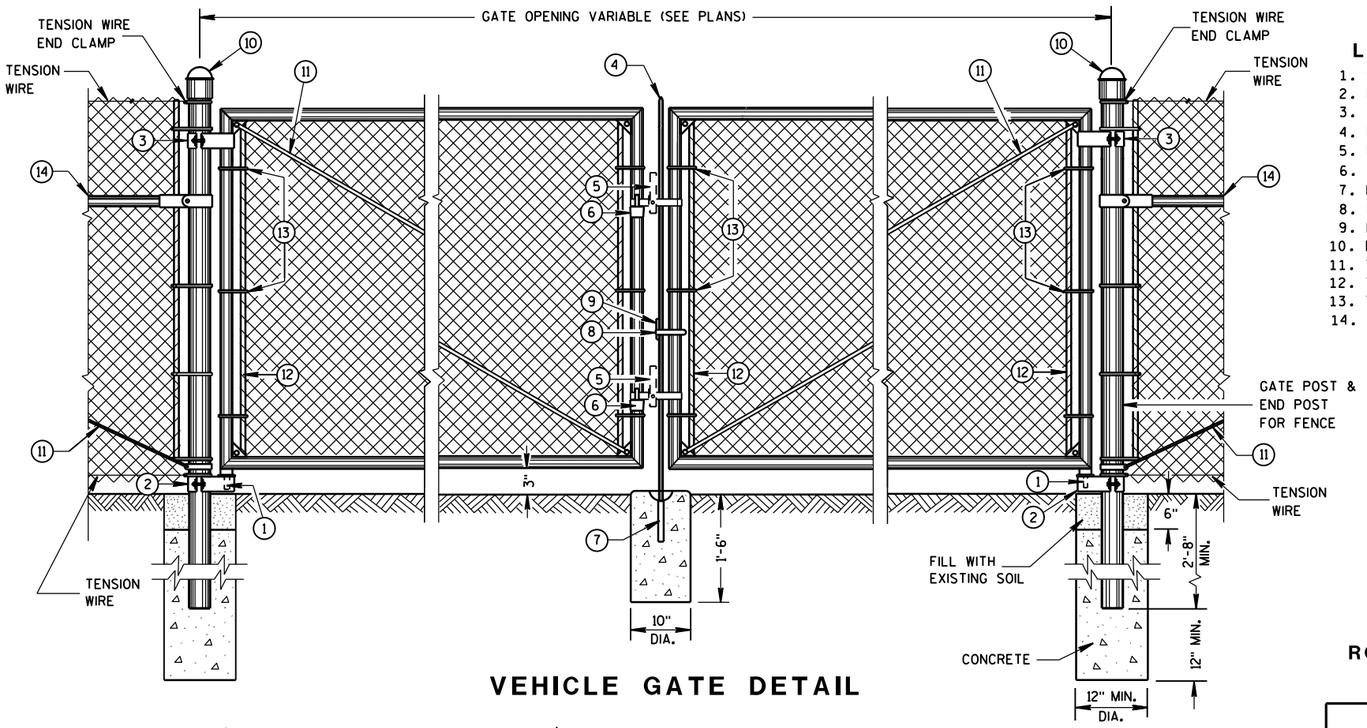
FENCE LOCATION AT STRUCTURES

FENCE WOVEN WIRE

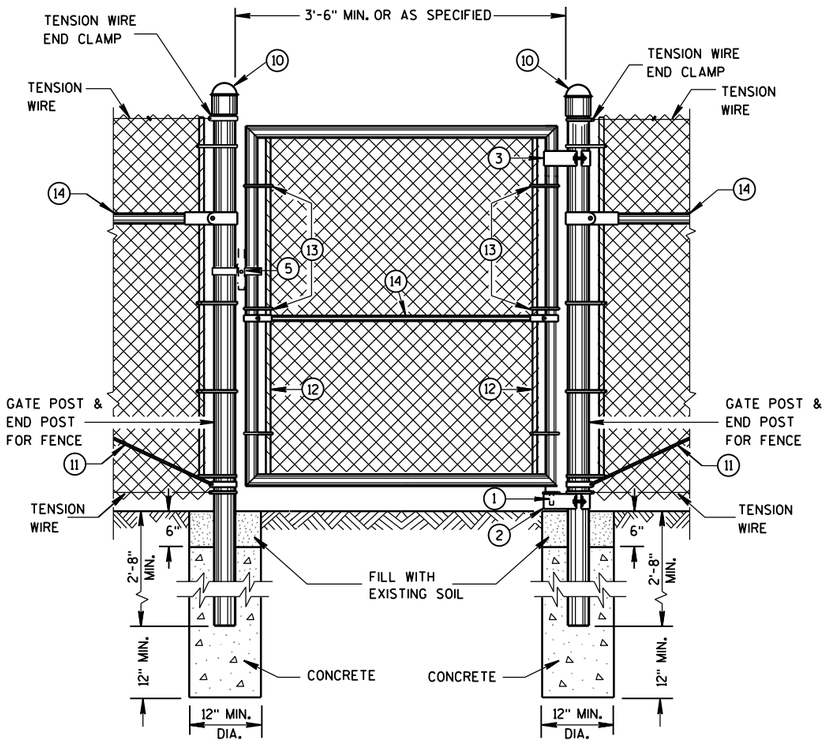
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/4/2008
DATE
/S/ Jerry H. Zoo
ROADWAY STANDARDS (755)
ENGINEER
FHWA

6
S.D.D. 15 B 1-8b



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

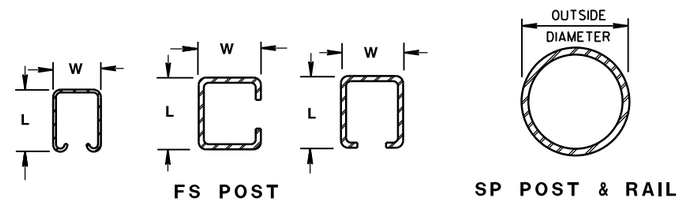
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



FS POST

SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

REQUIRED POST SIZE FOR GATES

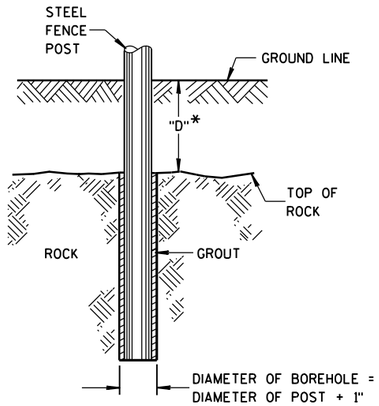
USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

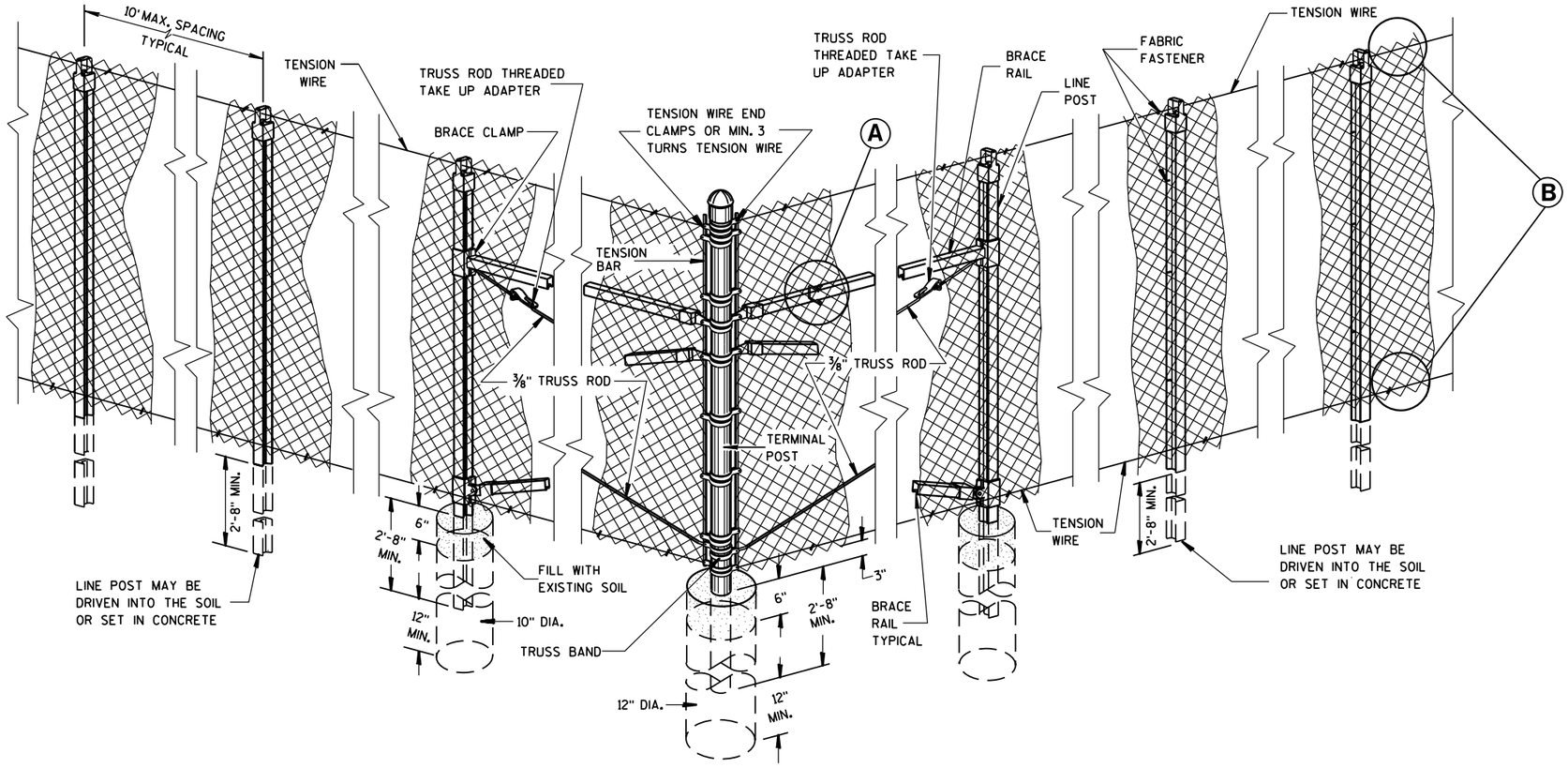
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 756

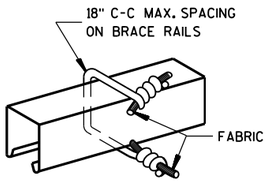


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



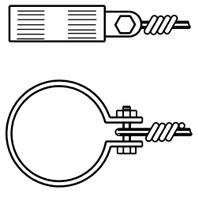
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



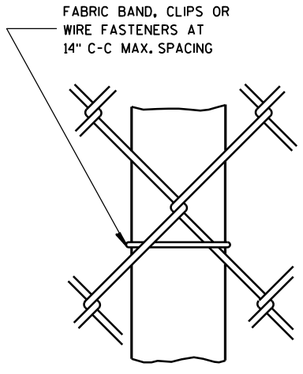
BRACE RAIL

FABRIC FASTENER

Ⓐ



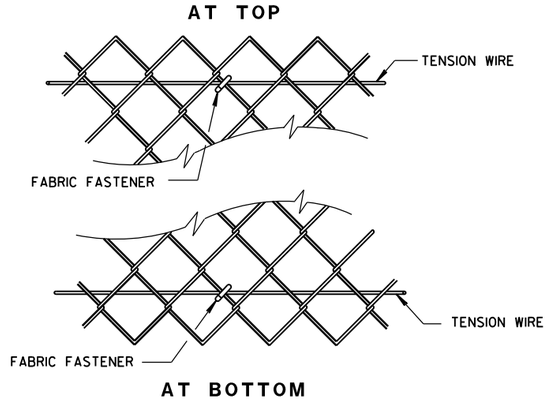
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

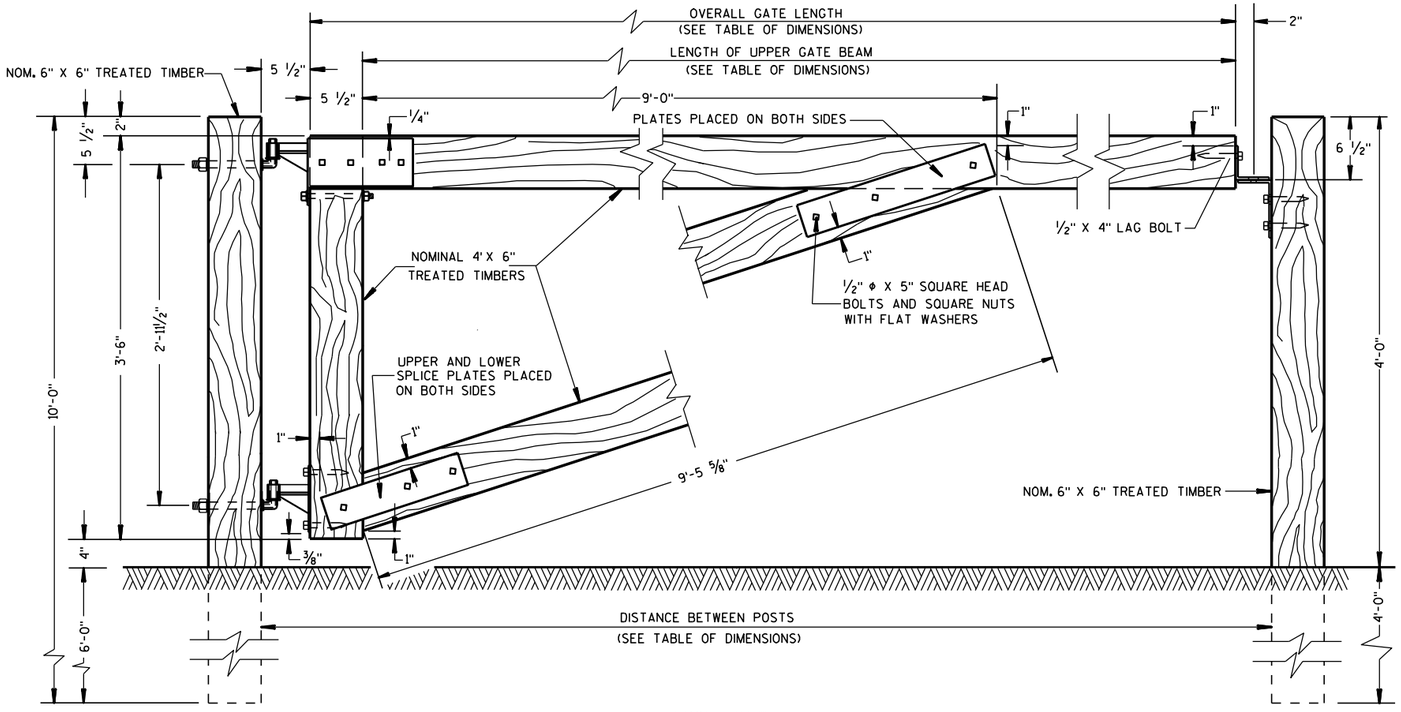
APPROVED
FEB. 2015 DATE
FHWA
/S/ Jerry H. Zogg
ROADWAY STANDARDS D 757 ENGINEER

6

S.D.D. 15 B 3-15b

6

S.D.D. 15 B 3-15b

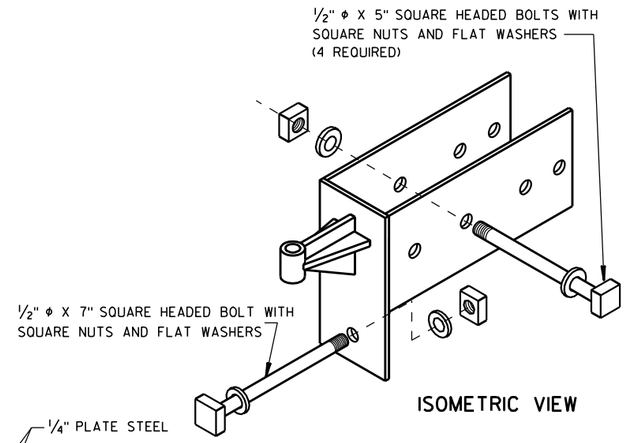


GATE POST

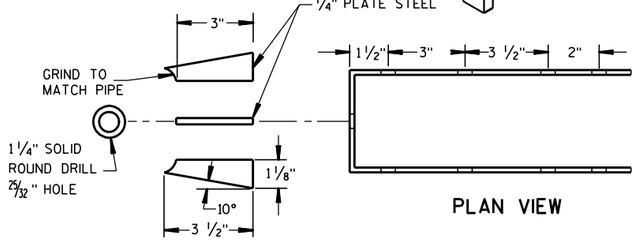
FRONT VIEW

WOOD GATE, SINGLE LEAF

STOPPING POST

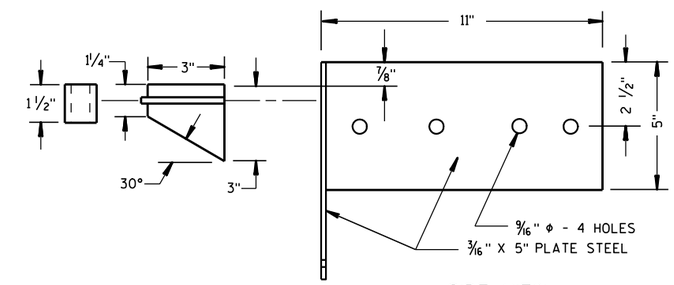


ISOMETRIC VIEW

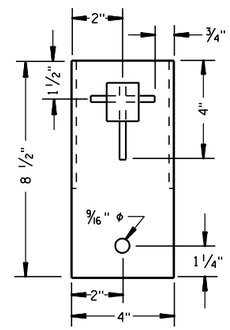


PLAN VIEW

NOTE:
ALL PIECES FOR HINGE SHALL BE FABRICATED WITH A 3/16" LEG FILLET WELD.

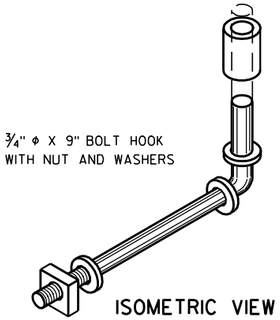


SIDE VIEW



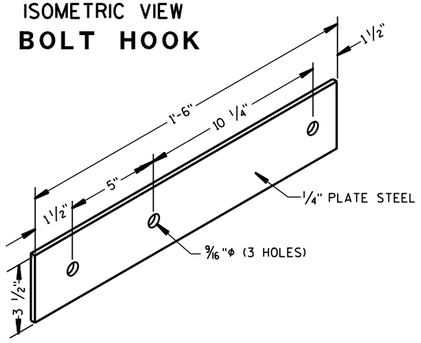
END VIEW

UPPER HINGE DETAIL ASSEMBLY



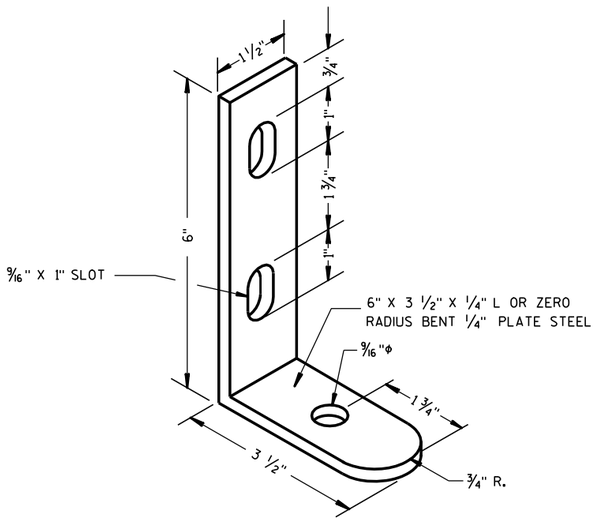
ISOMETRIC VIEW

BOLT HOOK



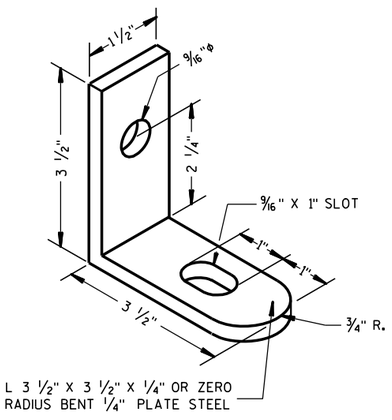
ISOMETRIC VIEW

UPPER AND LOWER SPLICE PLATES



ISOMETRIC VIEW

LOCKING POST LOCK BAR



ISOMETRIC VIEW

SWING ARM LOCKING BAR

WOOD GATE, SINGLE LEAF

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 B 11-1a

6

S.D.D. 15 B 11-1a

(TABLE OF DIMENSIONS)

CLEAR WIDTH	DISTANCE BETWEEN POSTS	LENGTH OF UPPER GATE BEAM	OVERALL GATE LENGTH
**16'-0"	16'-7"	15'-4¼"	15'-9¾"
**14'-0"	14'-7"	13'-4¼"	13'-9¾"
12'-0"	12'-7"	11'-4¼"	11'-9¾"
10'-0"	10'-7"	9'-4¼"	9'-9¾"

** FOR A 14' AND 16' CLEAR WIDTH OPENING - HINGE BRACKET (OPTION B) IS TO BE USED INSTEAD OF THE BOLT HOOK.

DESIGN NOTE:

GATE SIZE SHALL BE SPECIFIED AS THE CLEAR WIDTH OF OPENING.

GENERAL NOTES

POSTS SHALL BE SET IN GROUND AT THE DEPTH SHOWN, FILLED AND COMPACTED EVERY 6 INCHES WITH ORIGINAL SUBSOIL.

ALL SAW CUTS AND HOLES DRILLED IN TIMBERS SHALL BE TREATED IN ACCORDANCE WITH SECTION 507.2.2.6 AND WOOD PRESERVATIVE SHALL BE SECTION 507.2.3.4 OF THE STANDARD SPECIFICATIONS.

GATE LOCK CAN BE MASTER KEYED AND SHALL HAVE THE FOLLOWING MINIMUM DIMENSIONS: SHACKLE DIA. OF ⅜", VERTICAL CLEARANCE OF 1½", HORIZONTAL CLEARANCE OF 1 1/32".

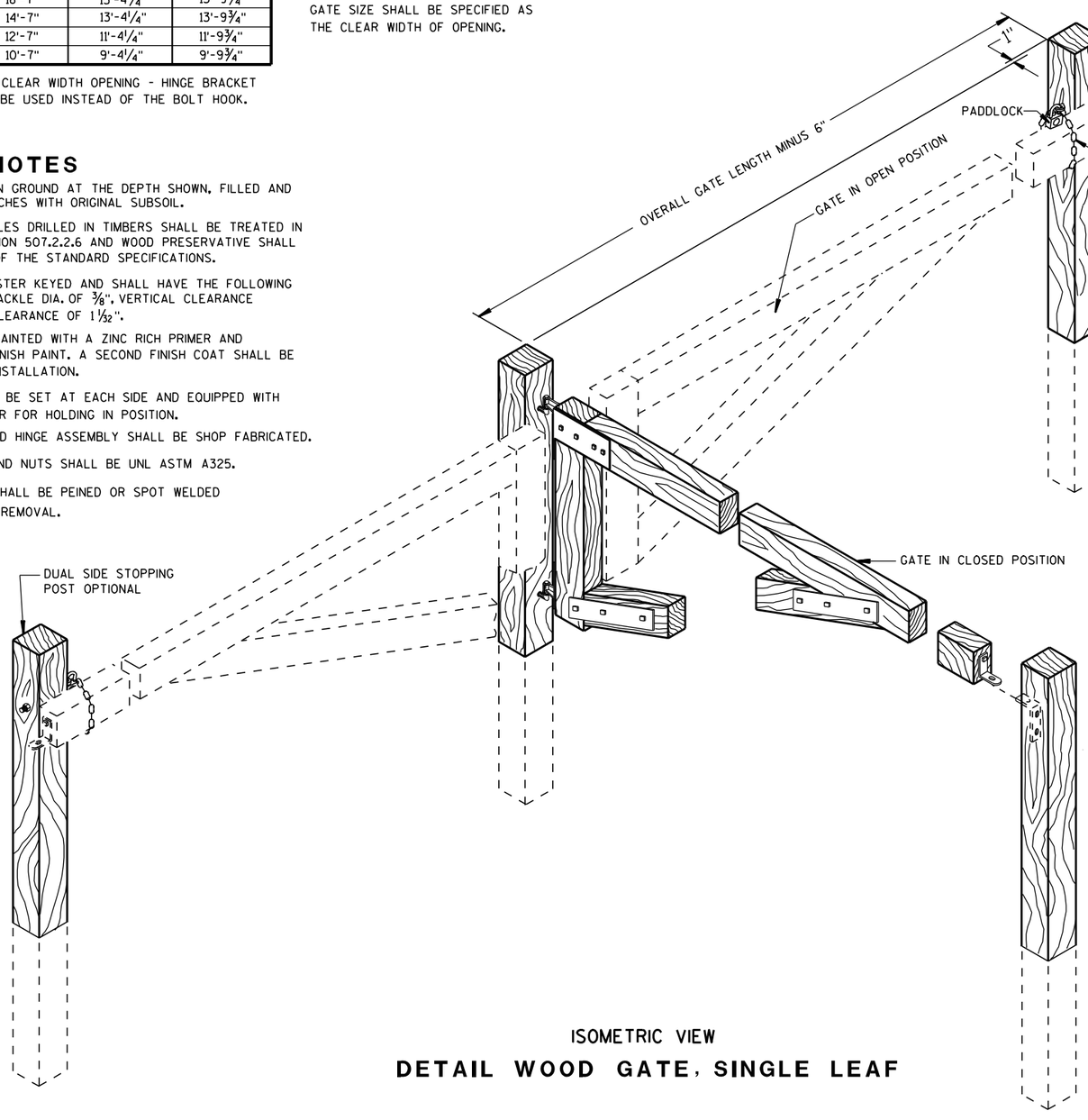
ALL METAL SHALL BE PAINTED WITH A ZINC RICH PRIMER AND ONE COAT OF EPOXY FINISH PAINT. A SECOND FINISH COAT SHALL BE FIELD APPLIED AFTER INSTALLATION.

STOPPING POSTS SHALL BE SET AT EACH SIDE AND EQUIPPED WITH LOCKING POST LOCK BAR FOR HOLDING IN POSITION.

ALL TIMBER BRACES AND HINGE ASSEMBLY SHALL BE SHOP FABRICATED.

ALL BOLTS, WASHERS AND NUTS SHALL BE UNL ASTM A325.

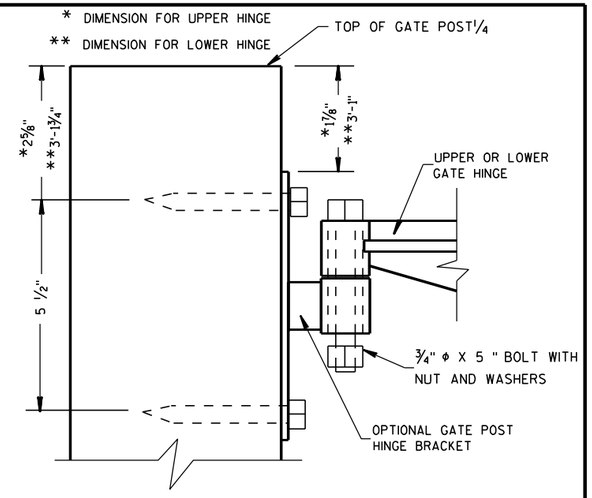
HINGE BOLT THREADS SHALL BE PEINED OR SPOT WELDED IN PLACE TO PREVENT REMOVAL.



ISOMETRIC VIEW

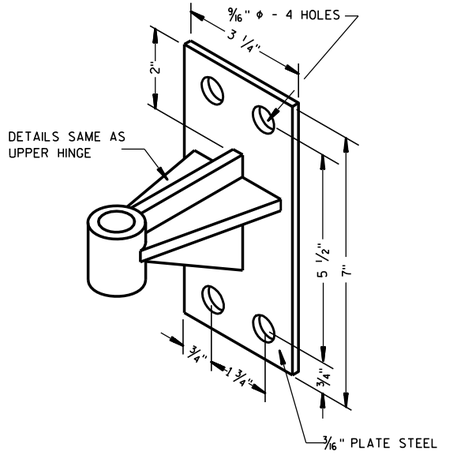
DETAIL WOOD GATE, SINGLE LEAF

NOTE:
ALL PIECES FOR HINGE SHALL BE FABRICATED WITH A 3/16" LEG FILLET WELD.



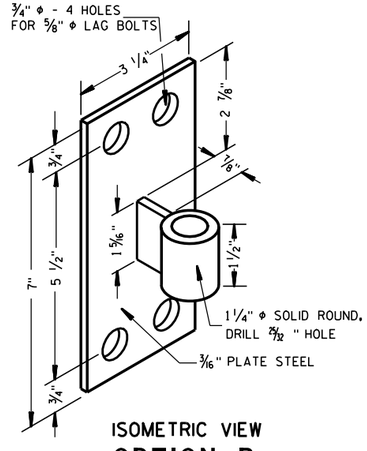
SIDE VIEW

INSTALLATION FOR OPTION B GATE POST HINGE BRACKET



ISOMETRIC VIEW

LOWER GATE HINGE



ISOMETRIC VIEW

OPTION B

GATE POST HINGE BRACKET

NOTE: TO BE USED IN PLACE OF HOOK BOLT FOR A 16' CLEAR WIDTH OPENING ONLY (USE ON BOTH UPPER & LOWER GATE HINGE ASSEMBLY)

WOOD GATE, SINGLE LEAF	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
1/5/94 DATE	/S/ Rory L. Rhinesmith CHIEF METHODS DEVELOPMENT ENGINEER
FHWA	759

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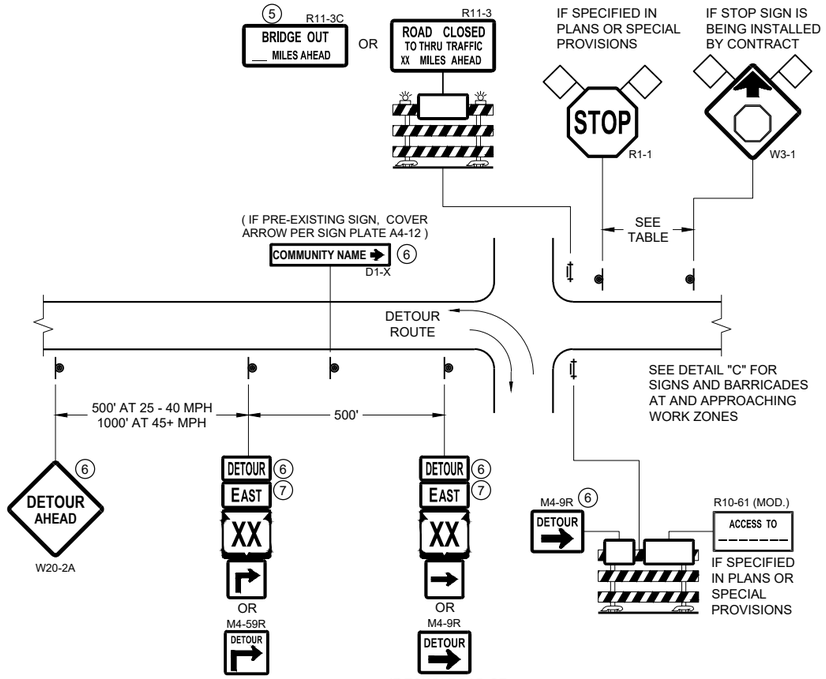
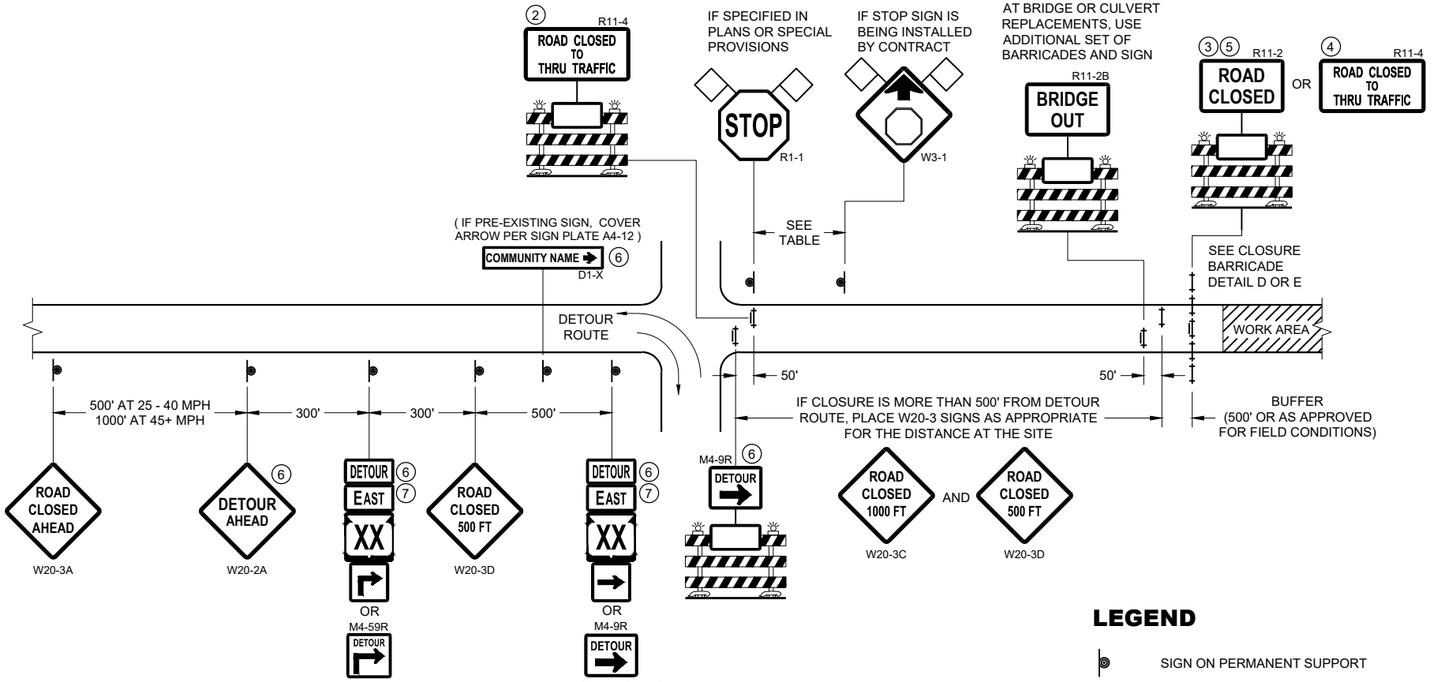
S.D.D. 15 B 11-1b



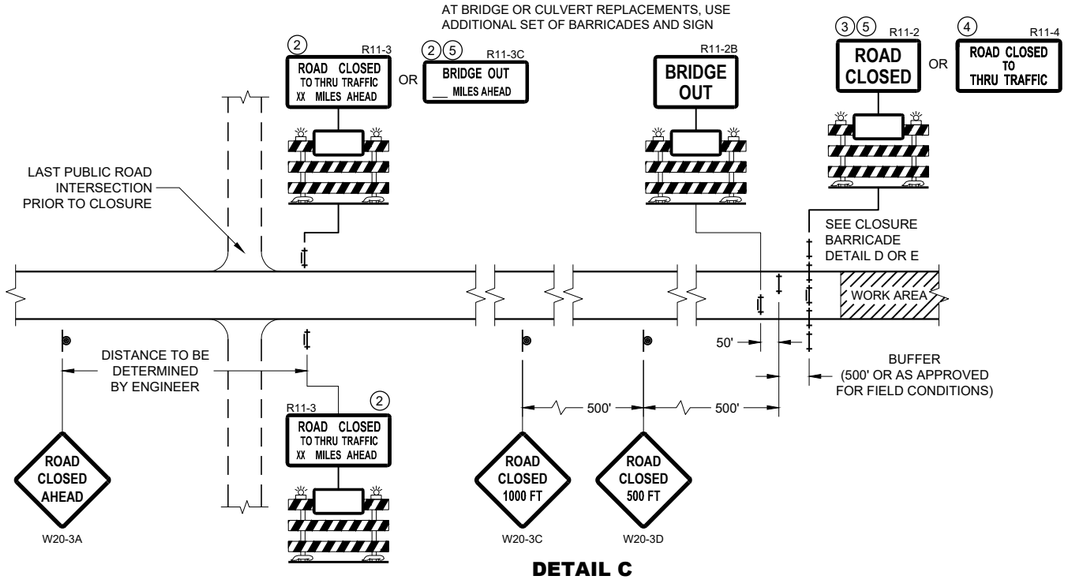


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

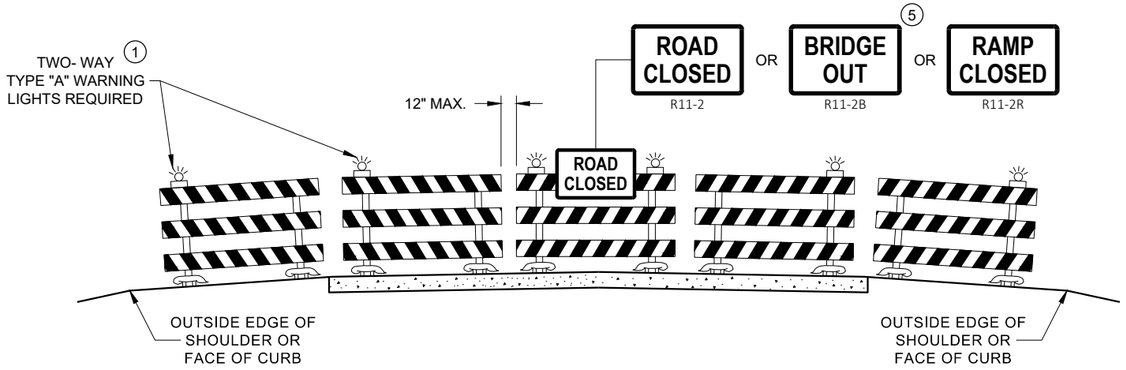
/S/ Andrew Heidtke
WORK ZONE ENGINEER

760

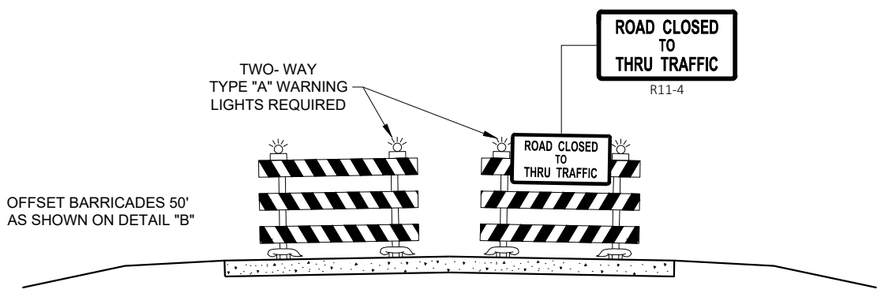
FHWA

6

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
761
FHWA

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

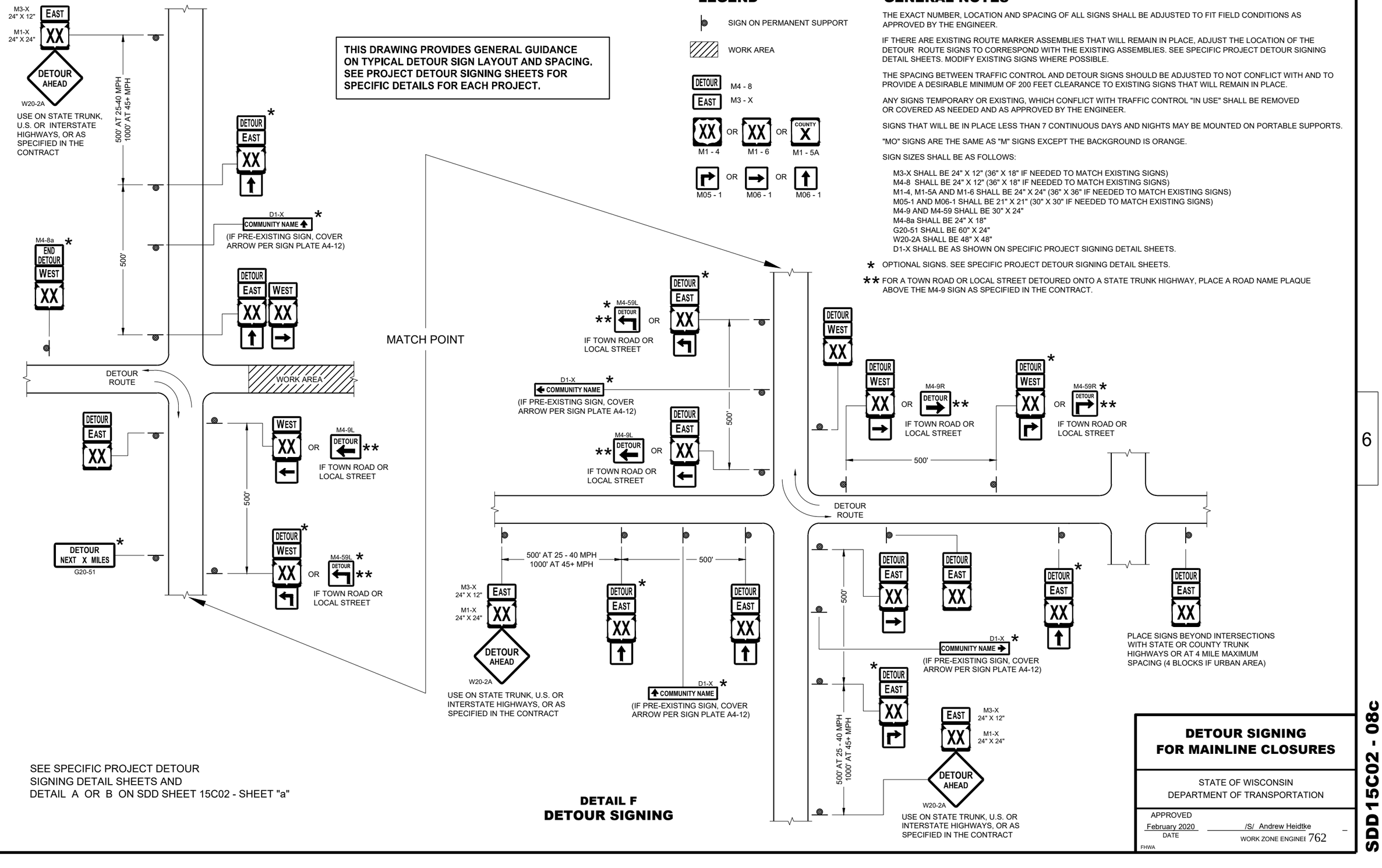
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

762

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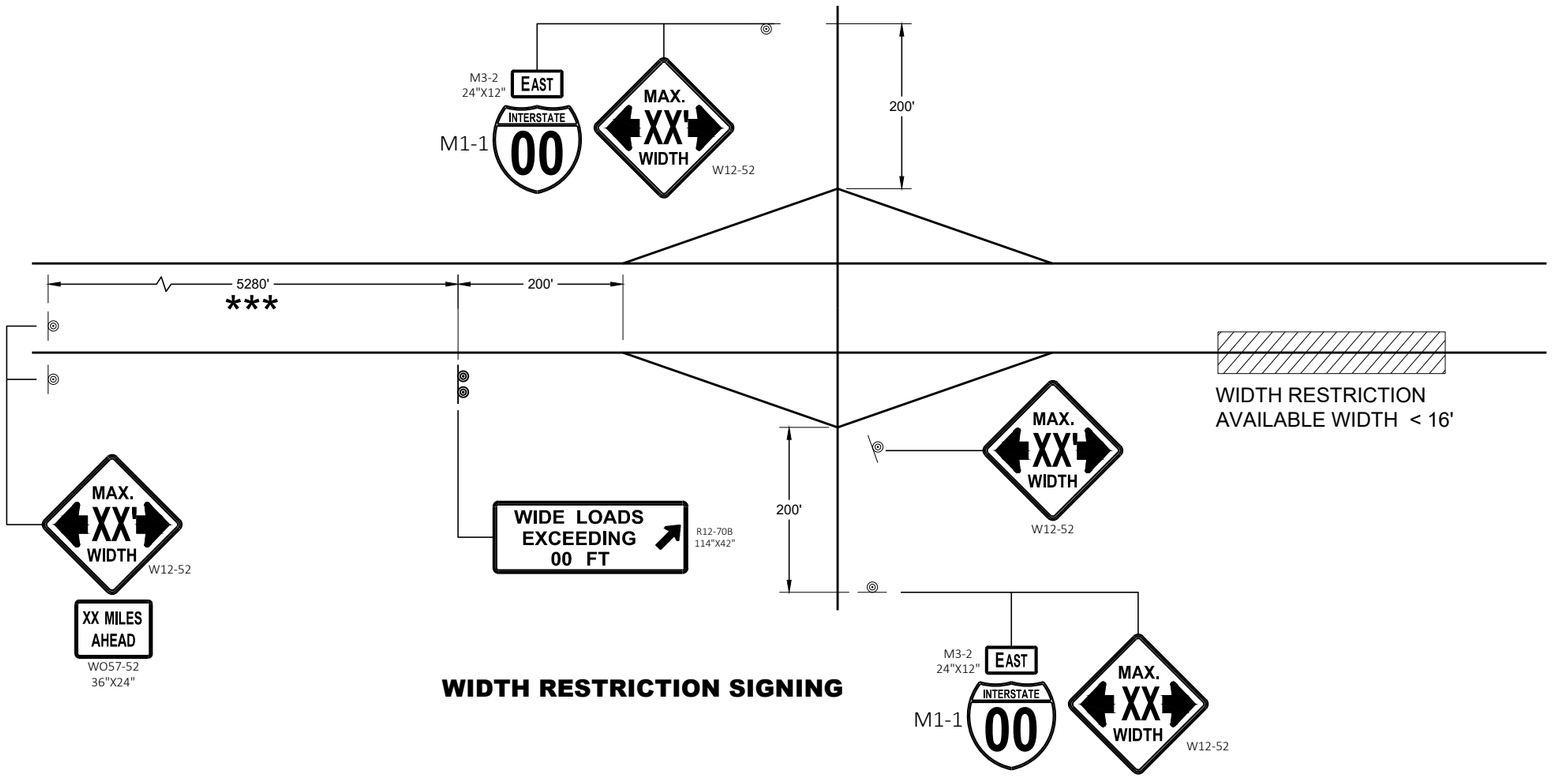
SDD 15C02 - 08c



WIDTH RESTRICTION SIGNING

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

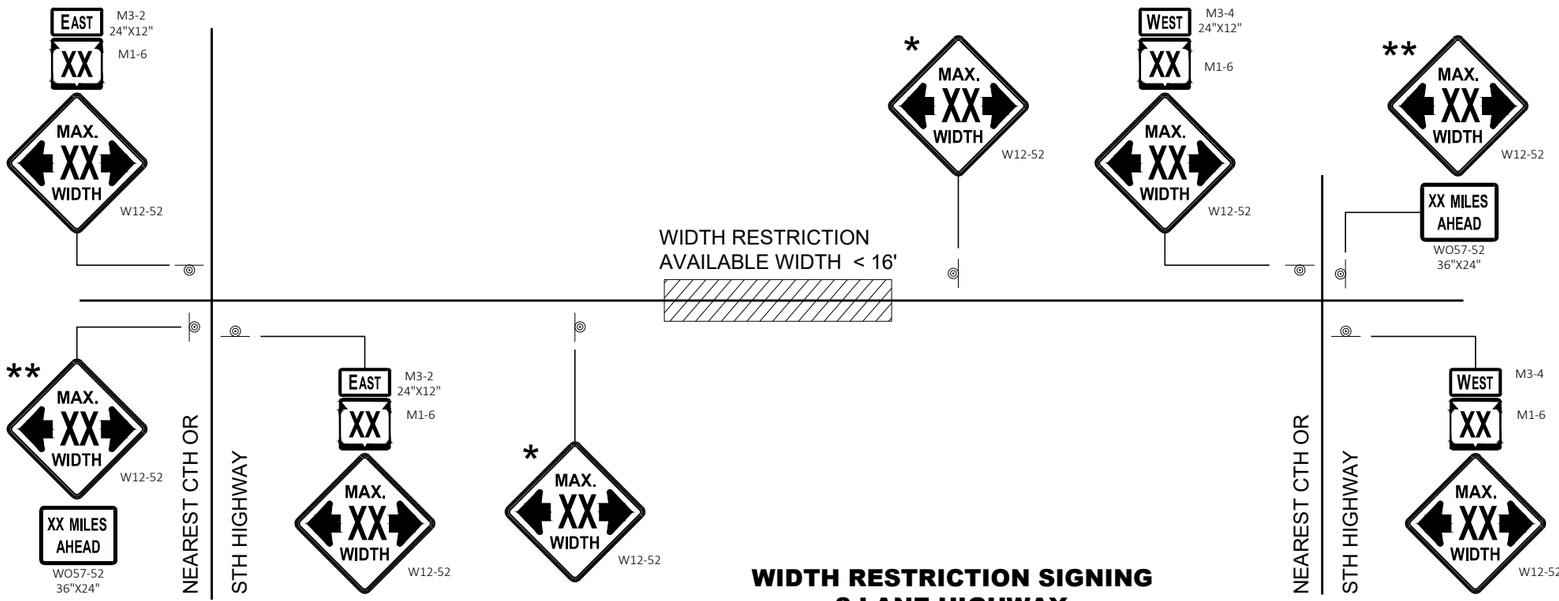
WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.

WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE 763

FHWA

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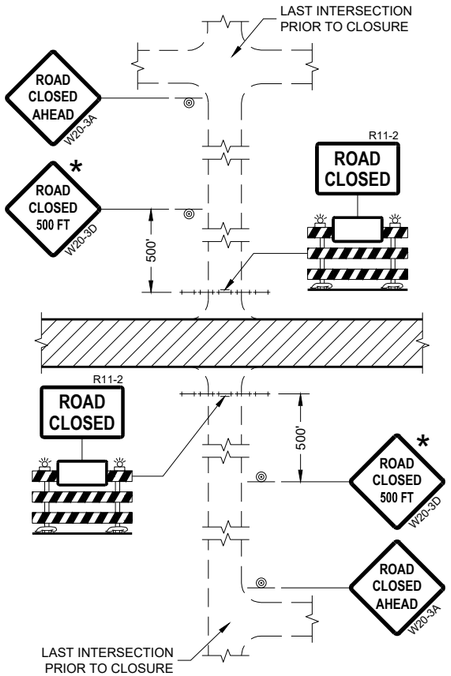
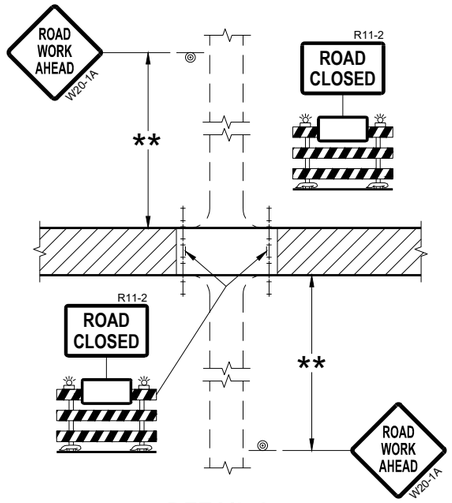
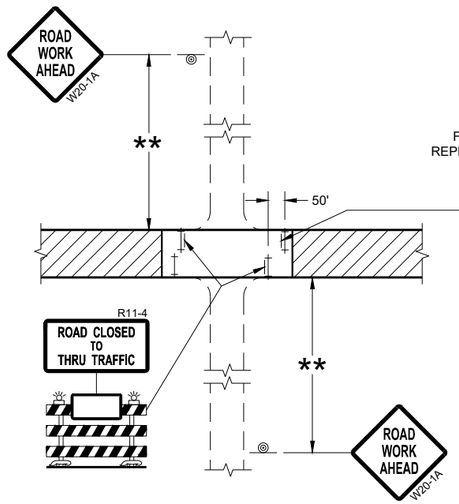
SDD 15C02 - 08f



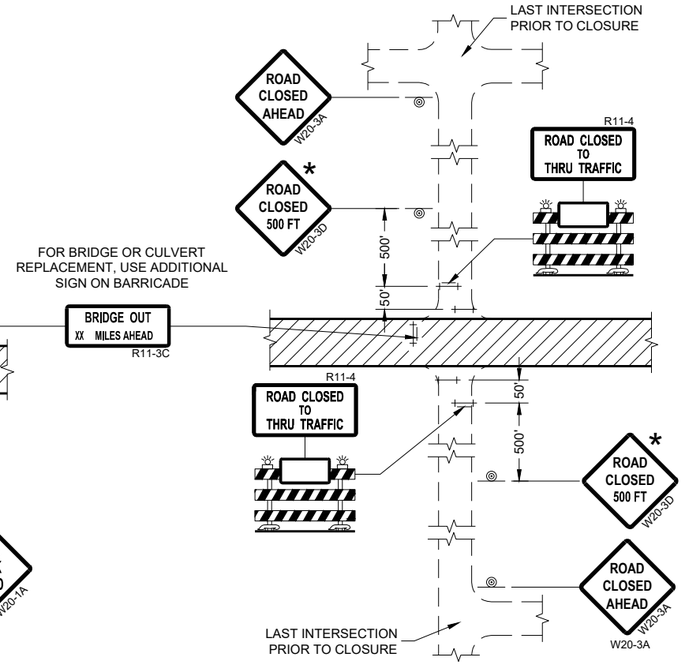
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

764

FHWA

6

SDD 15C03 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

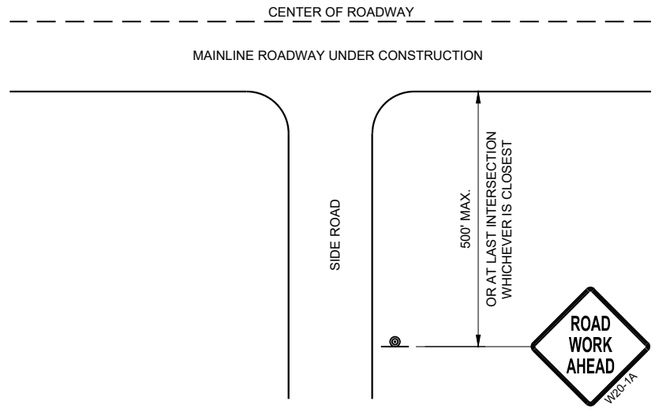
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



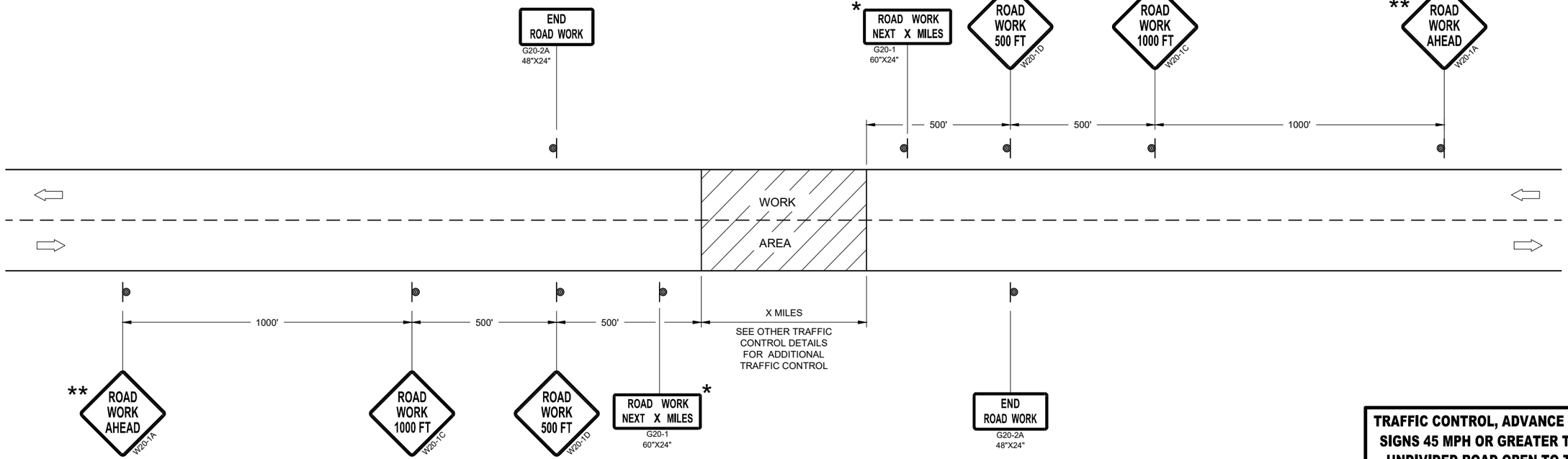
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

765

FHWA

6

SDD 15C04 - 05

6

SDD 15C04 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

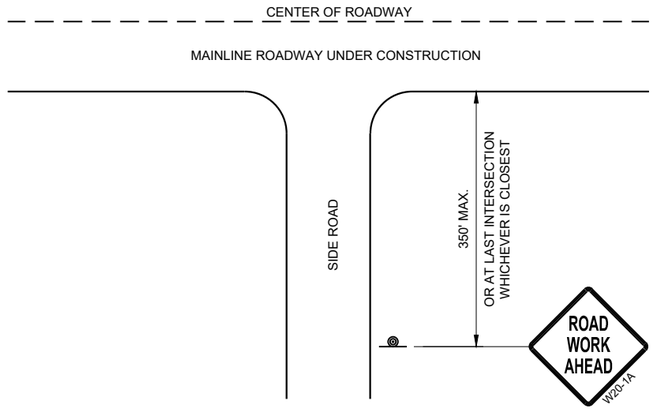
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



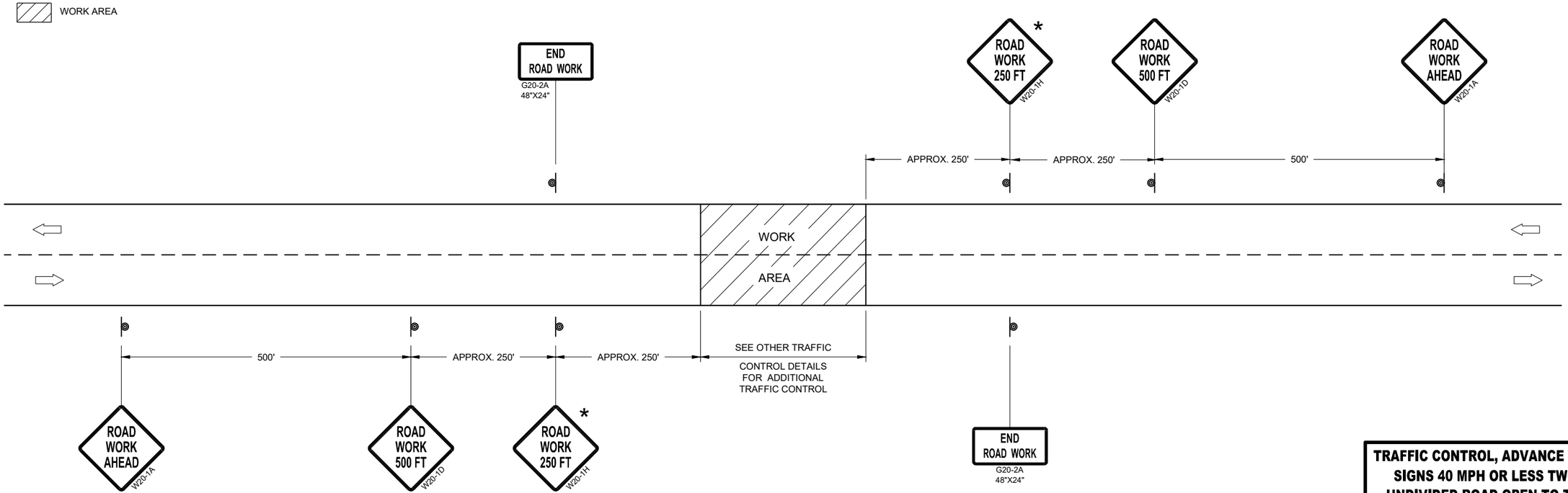
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

766

FHWA

6

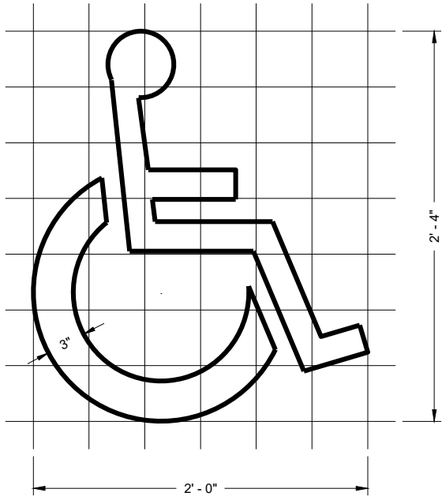
6

SDD 15C05 - 05

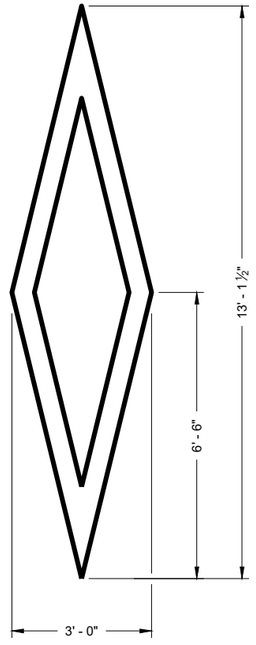
SDD 15C05 - 05

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

SDD 15C07 - 15a

SDD 15C07 - 15a

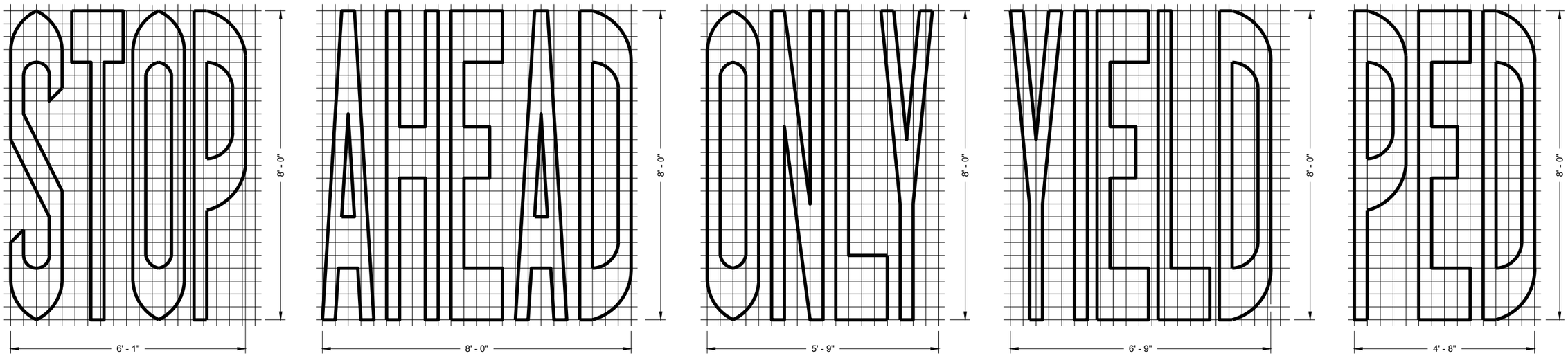
PAVEMENT MARKING SYMBOLS

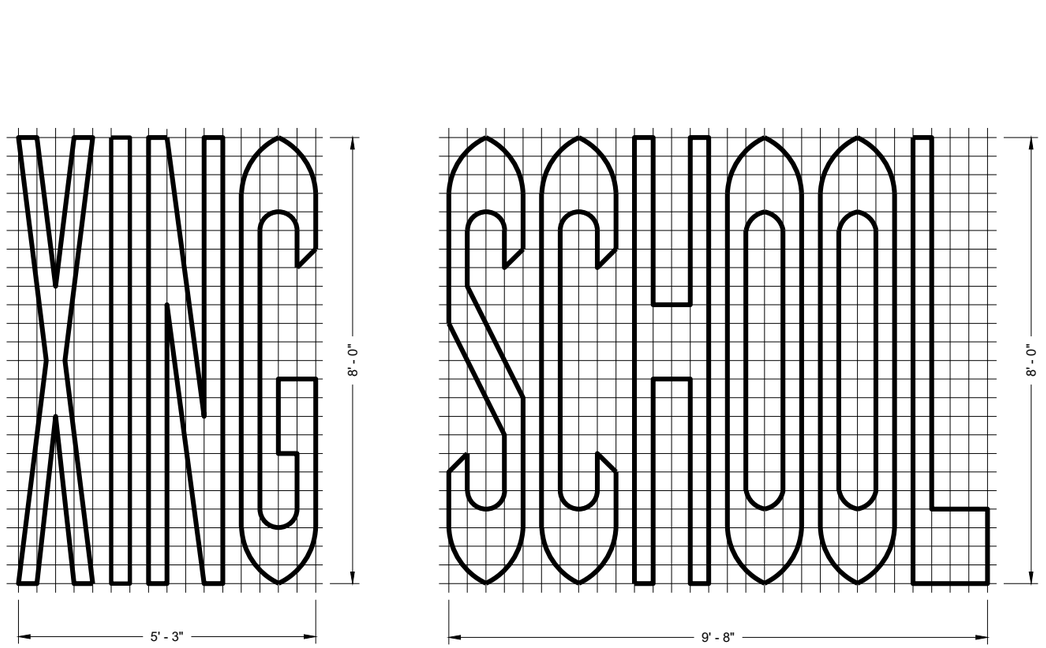
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

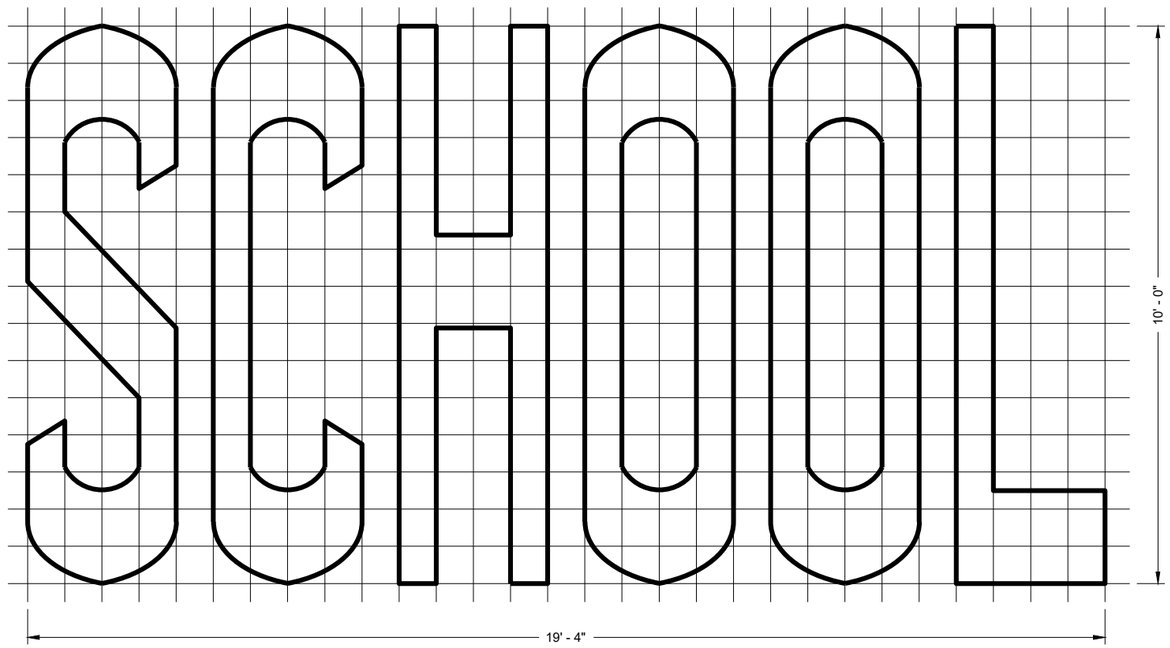
/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA





SINGLE LANE



TWO - LANE

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

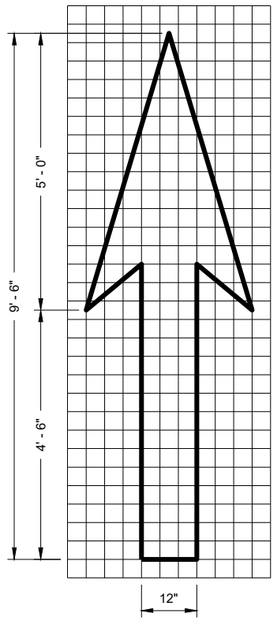
/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

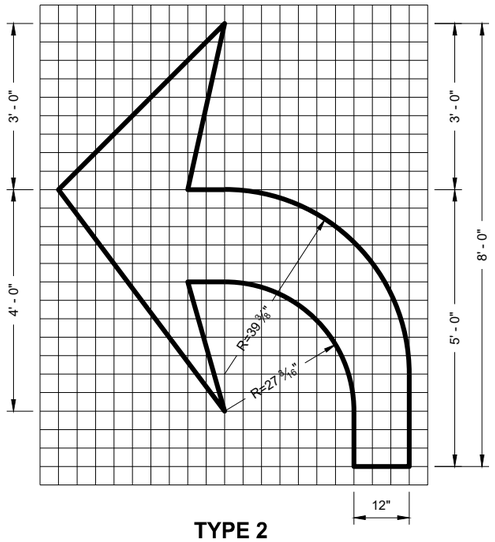
6

SDD 15C07 - 15b

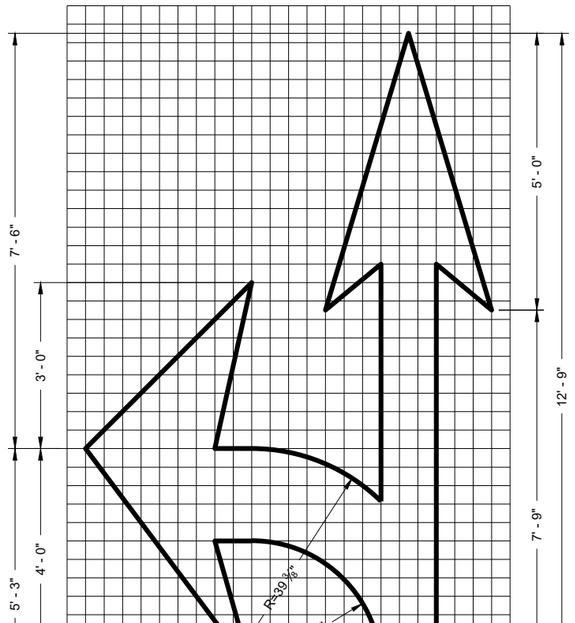
SDD 15C07 - 15b



TYPE 1



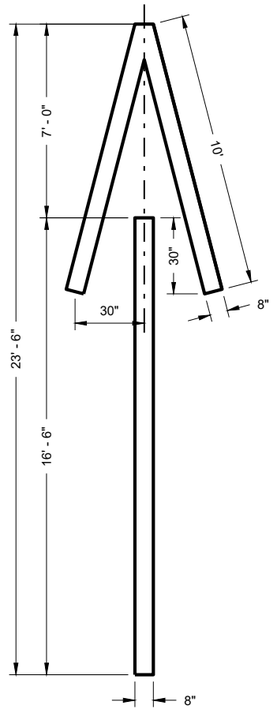
TYPE 2



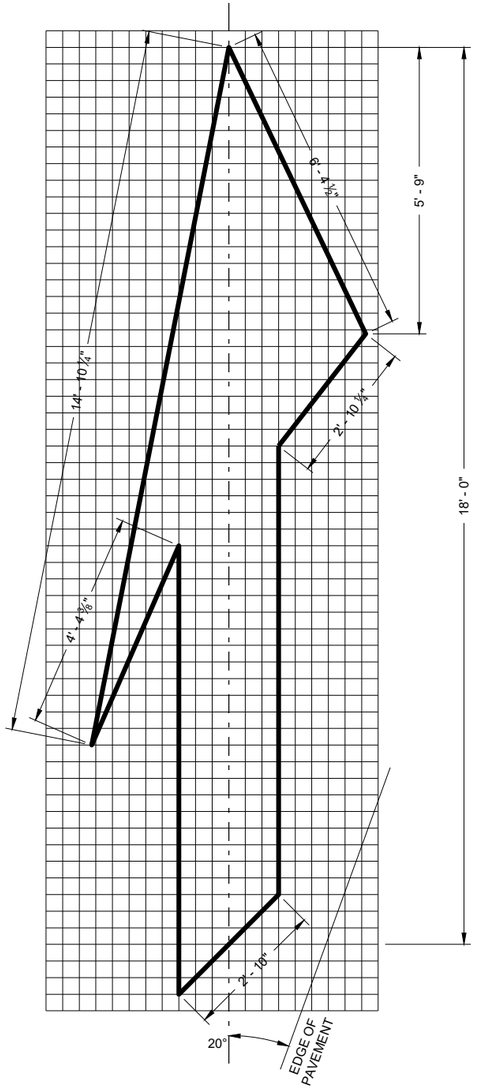
TYPE 3

GENERAL NOTES

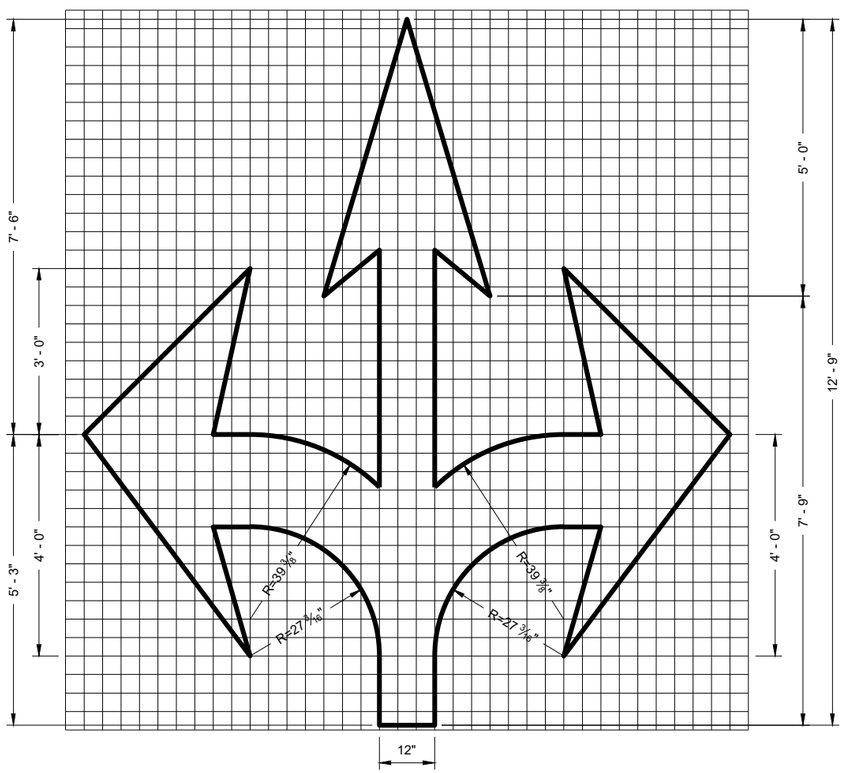
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



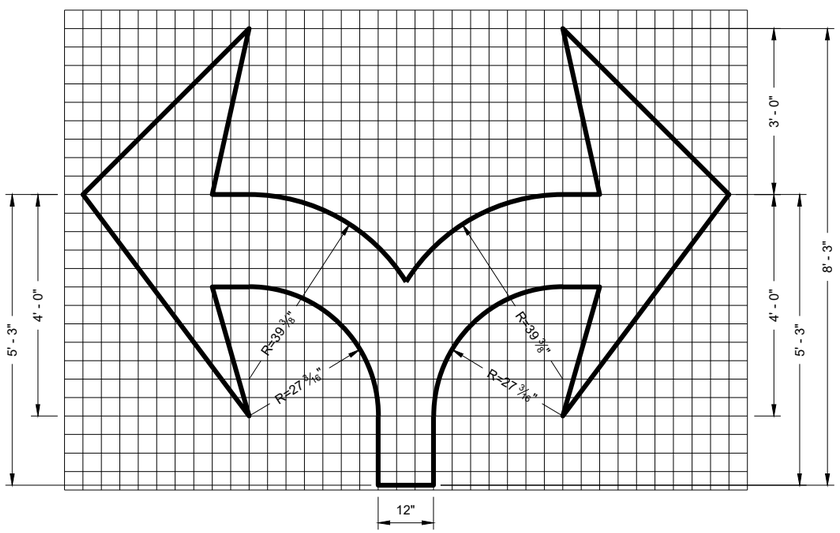
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

769

FHWA

6

SDD 15C07 - 15c

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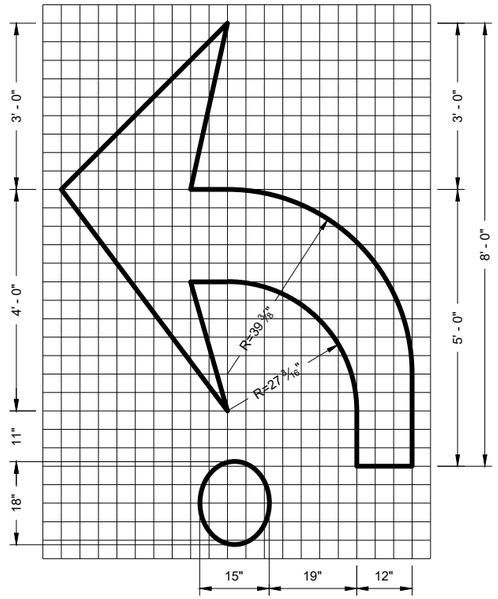
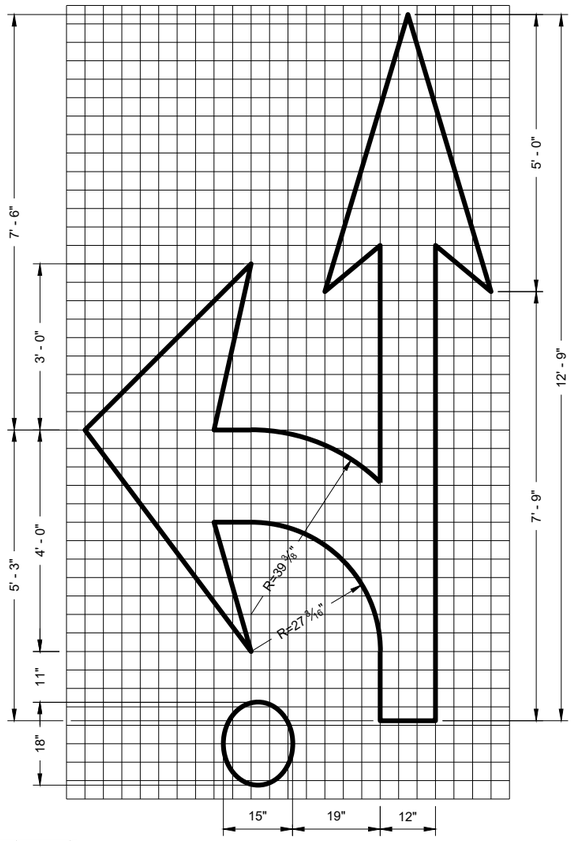
SDD 15C07 - 15c

GENERAL NOTES

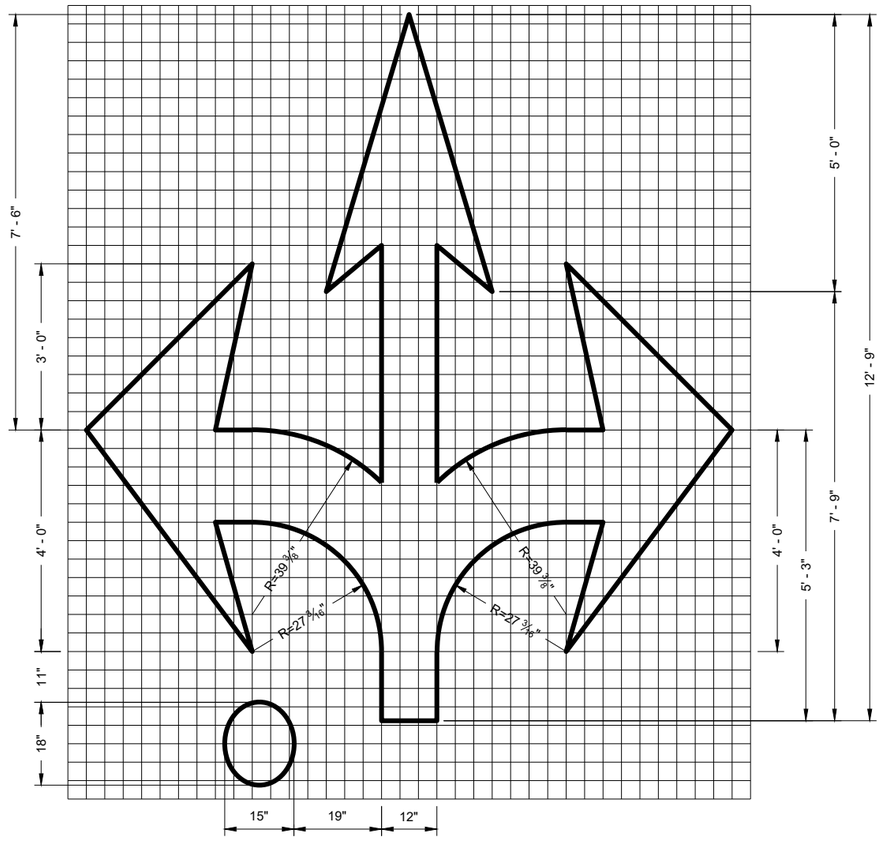
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



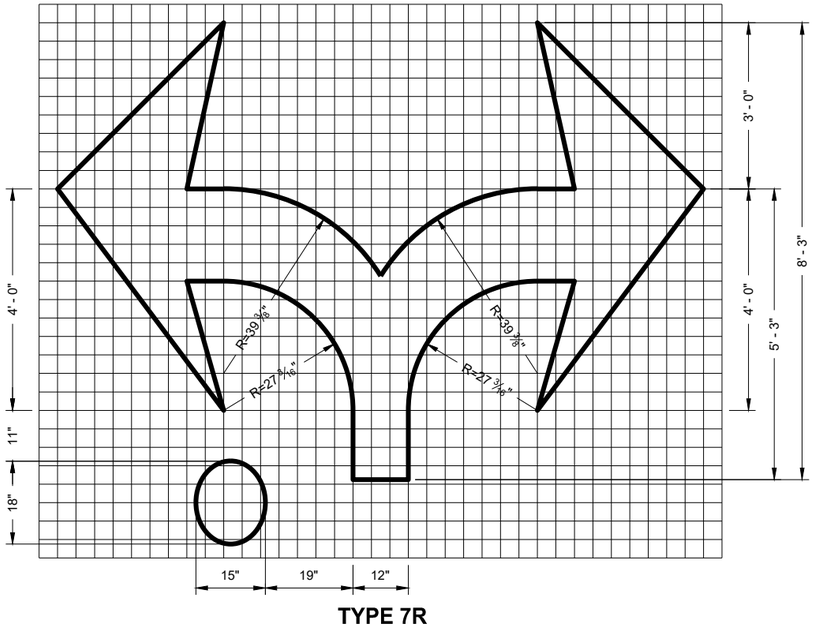
TYPE 2R



TYPE 3R



TYPE 6R



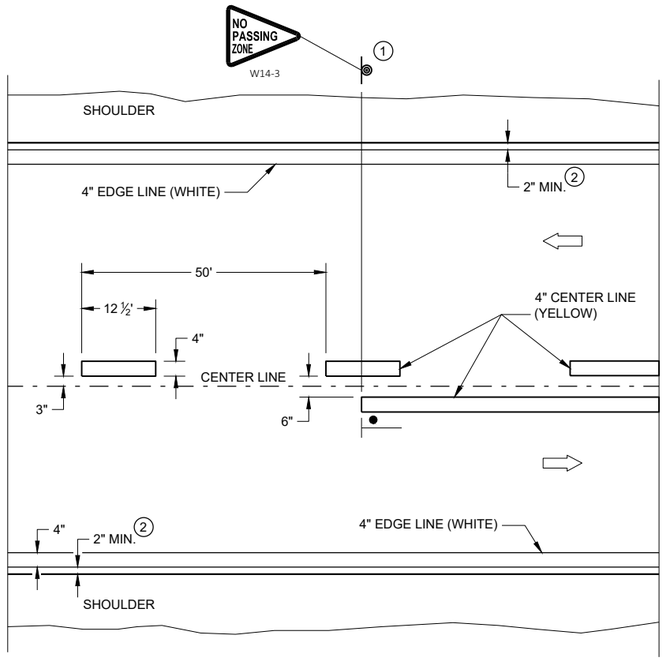
TYPE 7R

ROUNDABOUT MARKING ARROWS

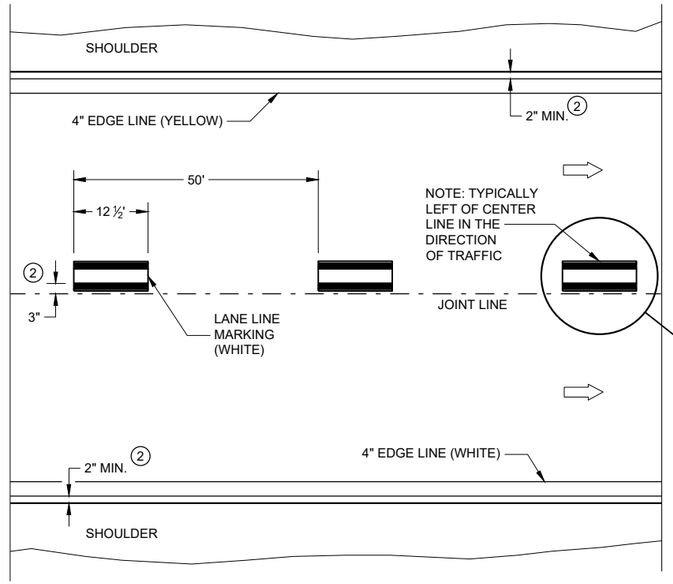
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER
770
FHWA

6
SDD15C07 - 15d

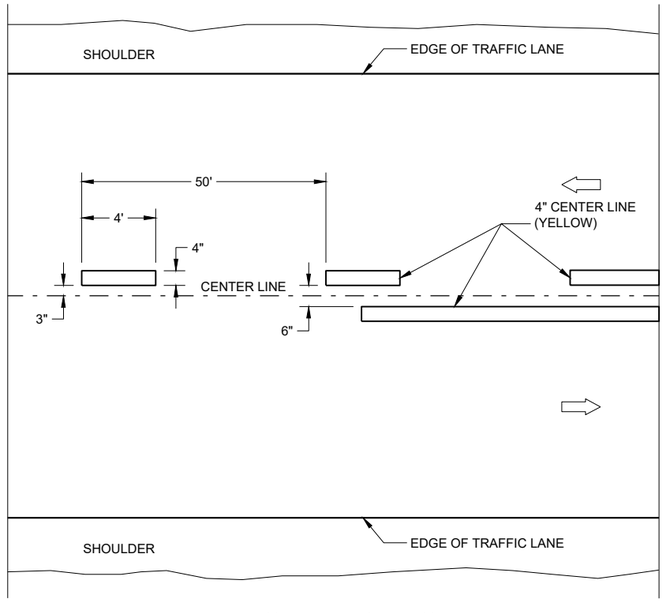


TWO WAY TRAFFIC

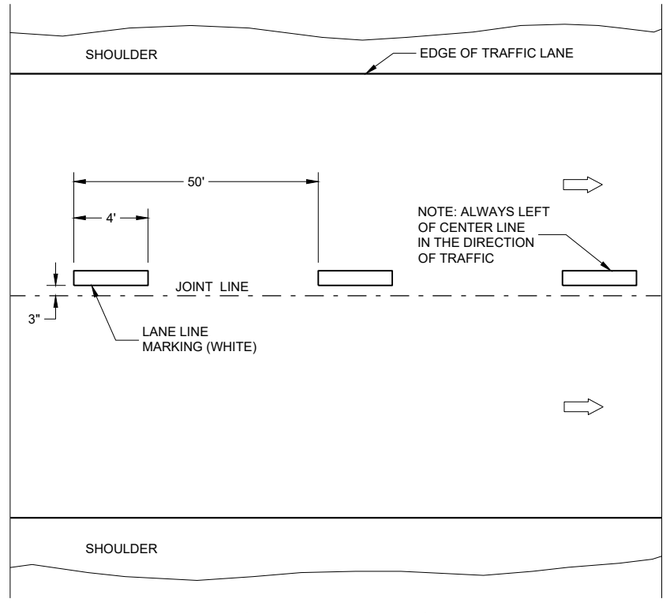


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

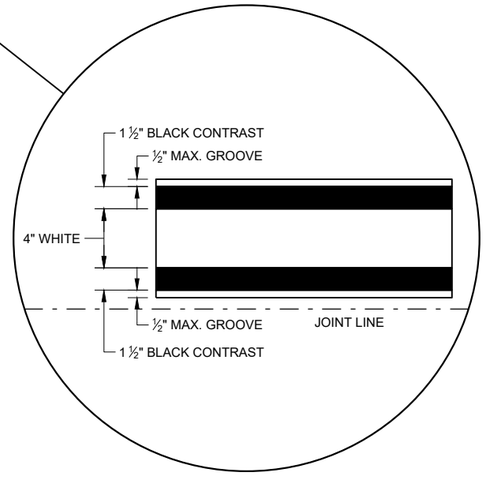
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

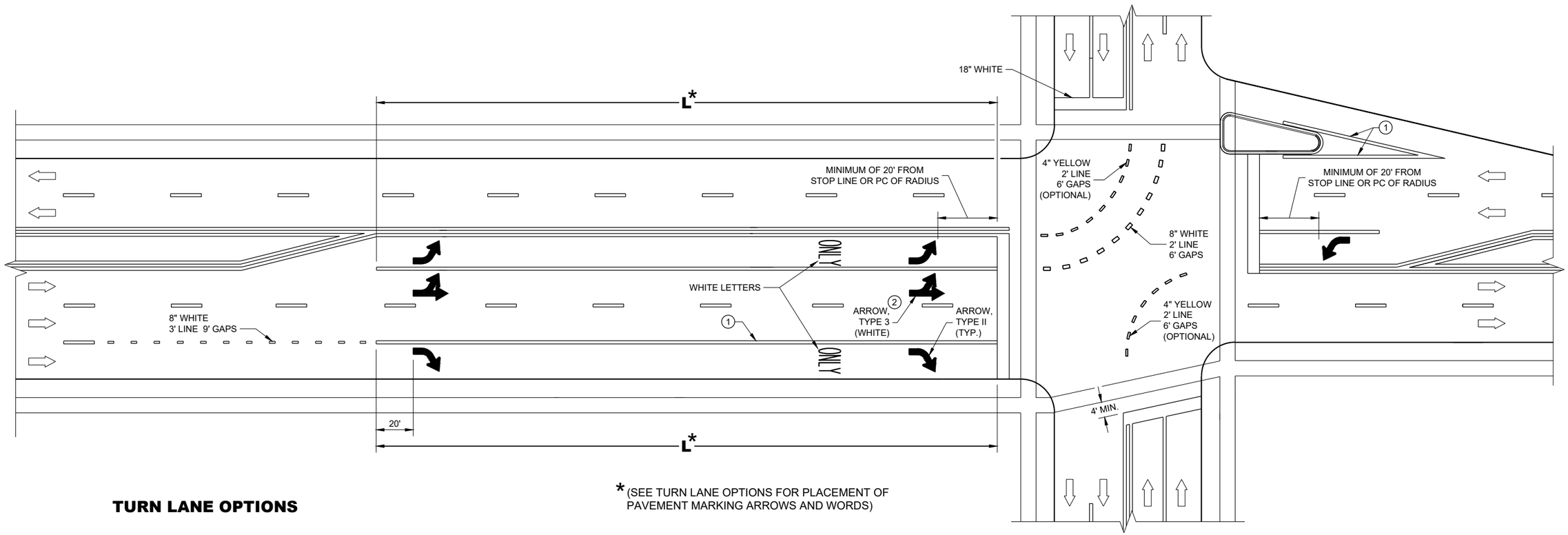
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Matthew Rauch — STATEWIDE SIGNING AND M ENGINEER

FHWA

SDD 15C08 - 20a

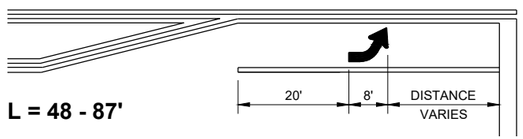
SDD 15C08 - 20a



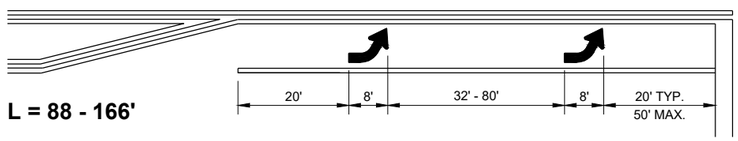
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

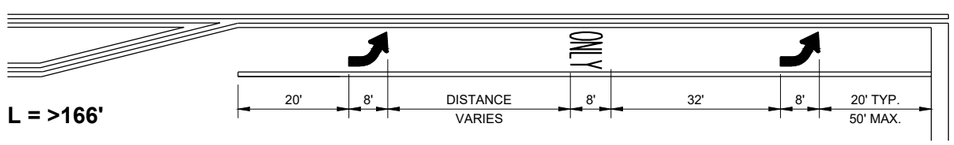
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

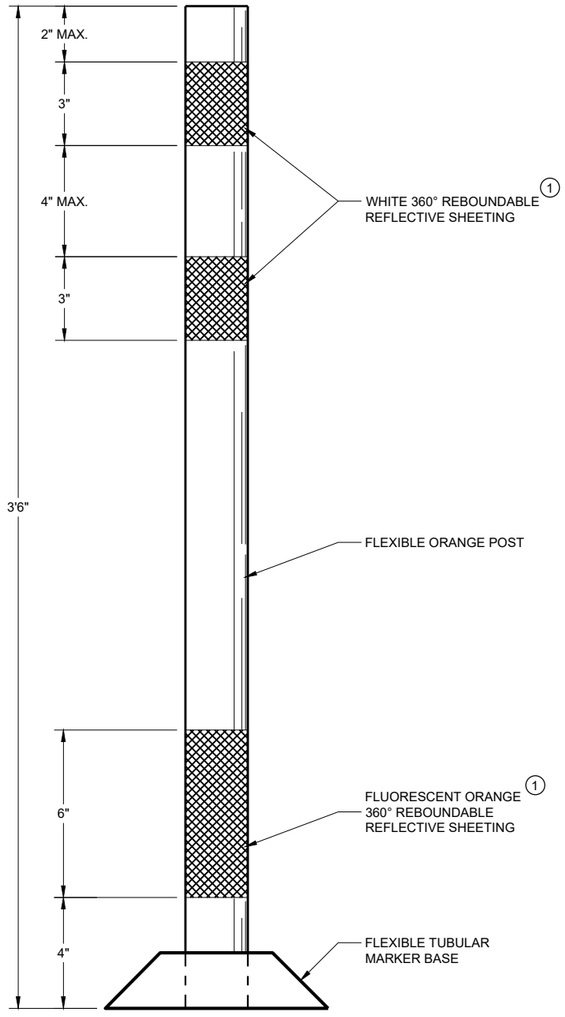
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C08 - 20c



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

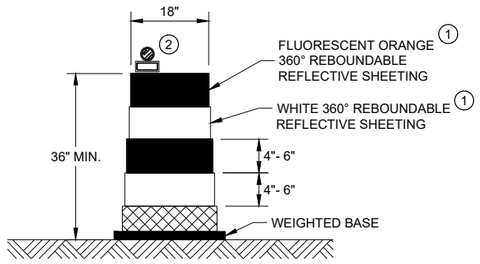
FHWA

6

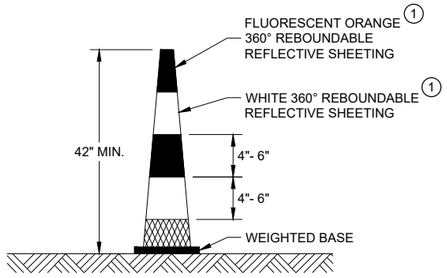
SDD 15C11 - 09a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

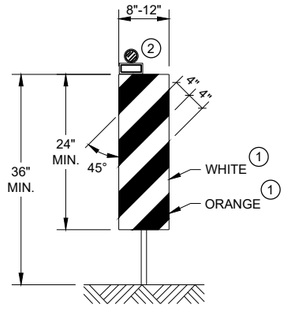


DRUM



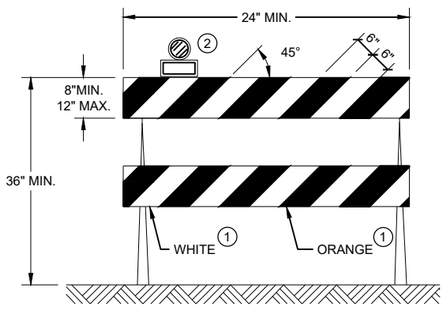
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



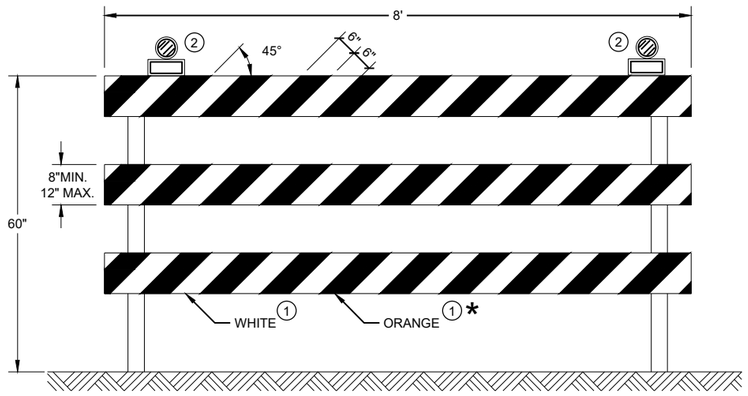
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

774

FHWA

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SDD 15C11 - 09b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

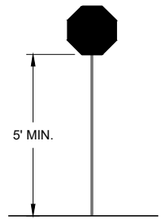
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



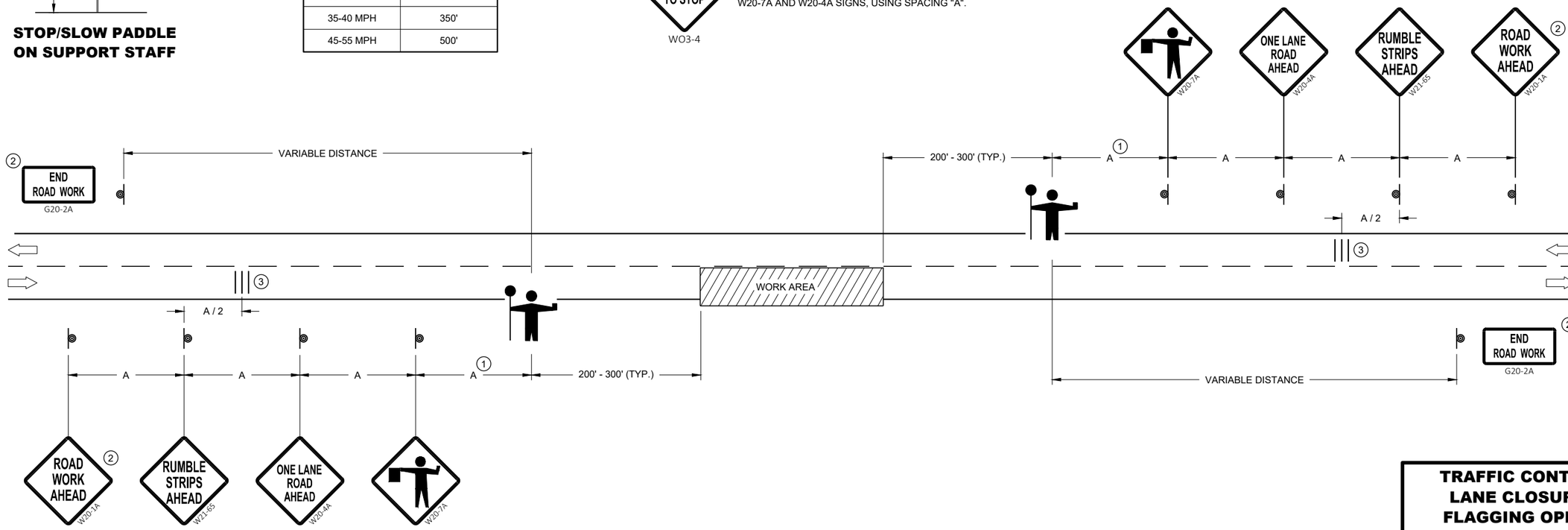
STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
775

FHWA

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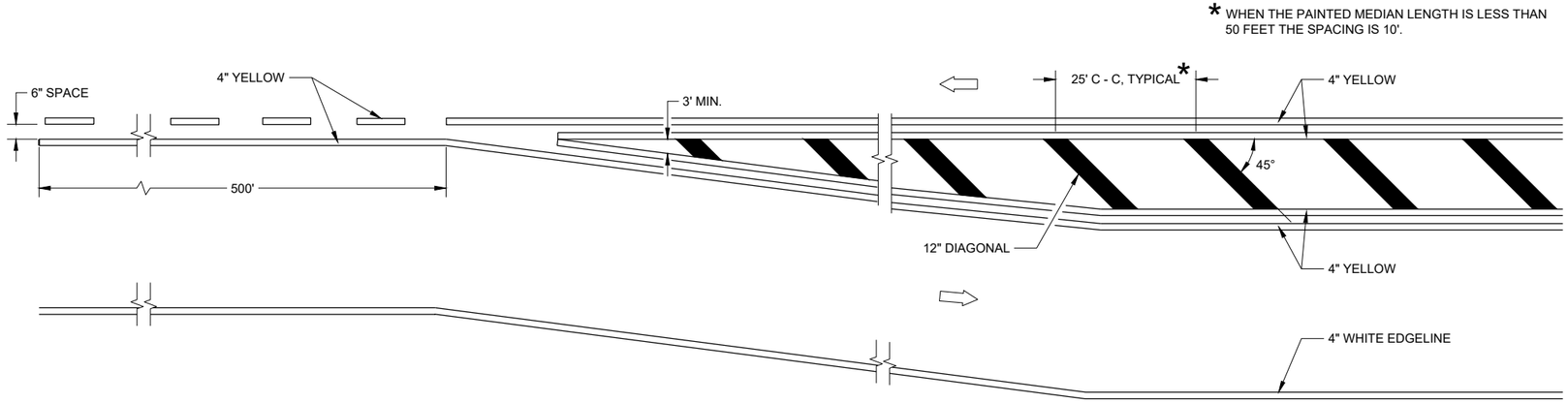
SDD 15C12 - 08

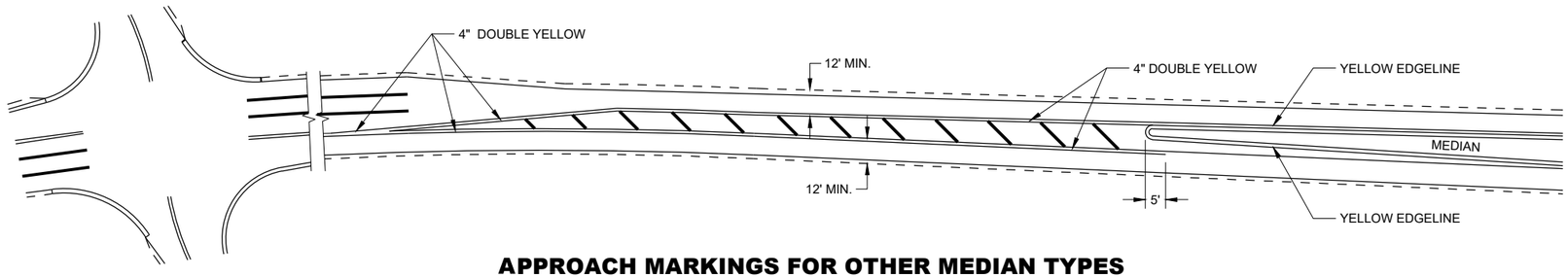


MEDIAN ISLAND DETAIL

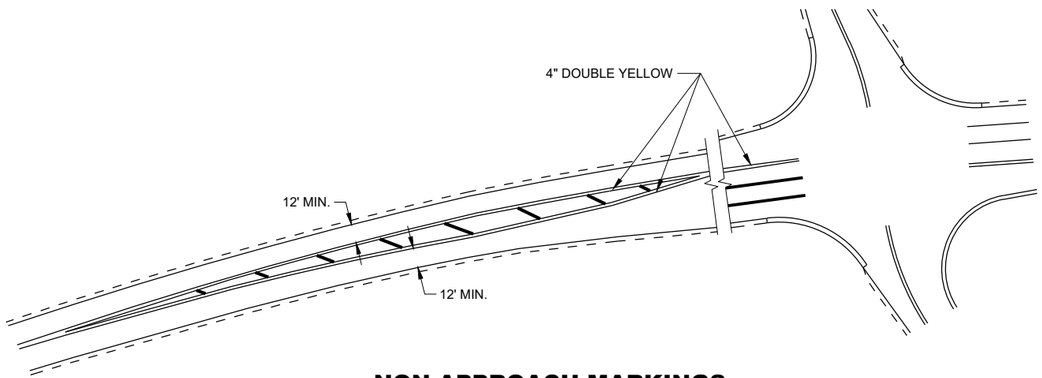
GENERAL NOTES

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

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STATE SIGNING AND MAF ENGINEER

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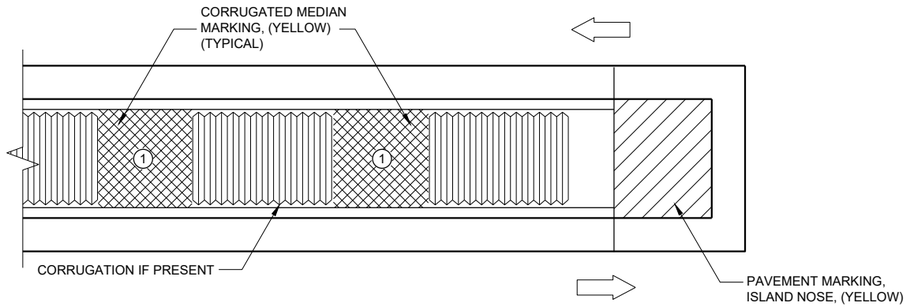
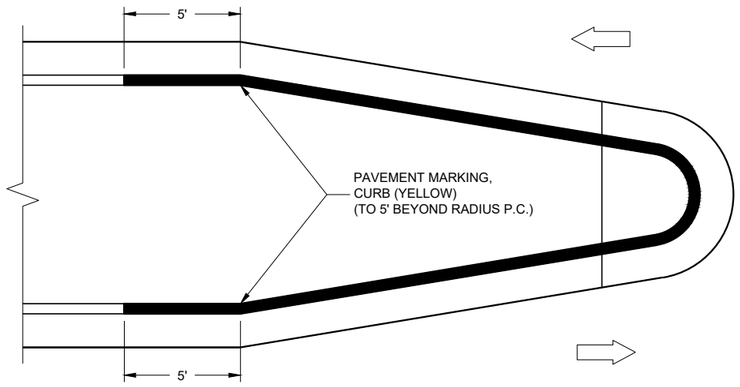
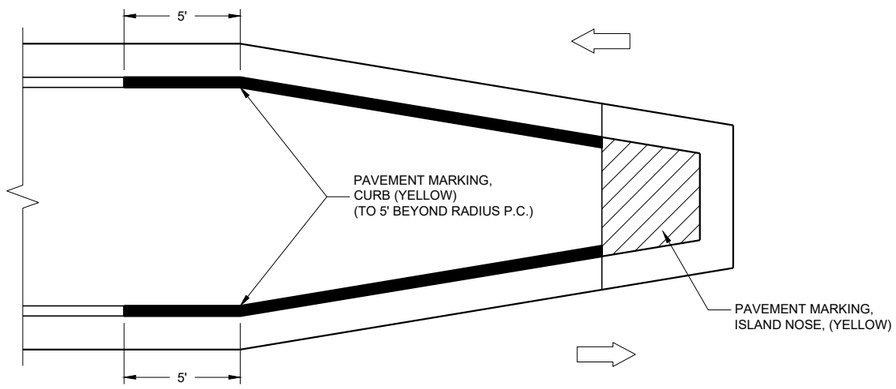


MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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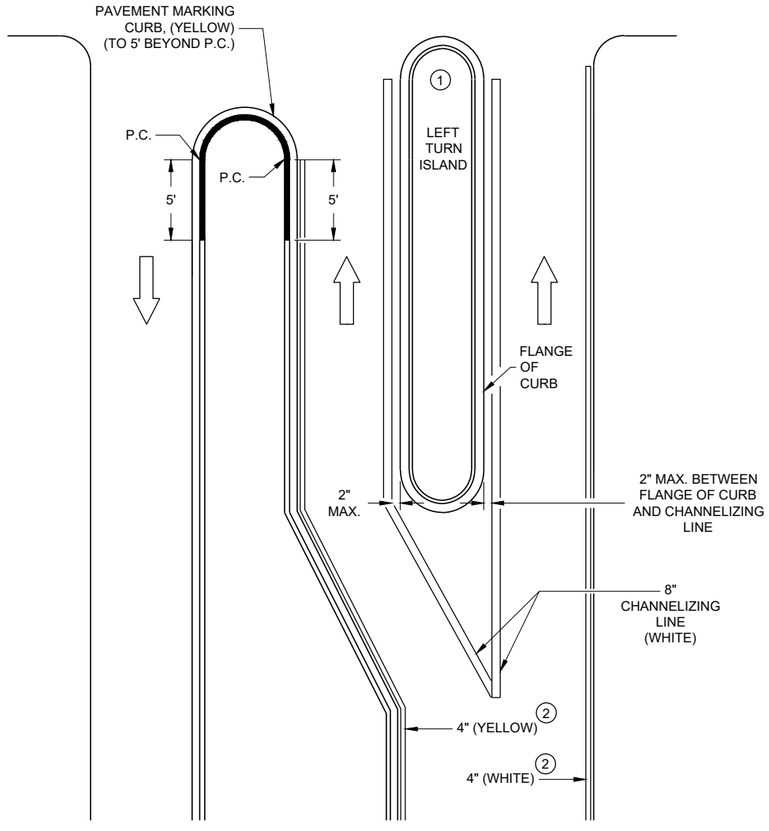
REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

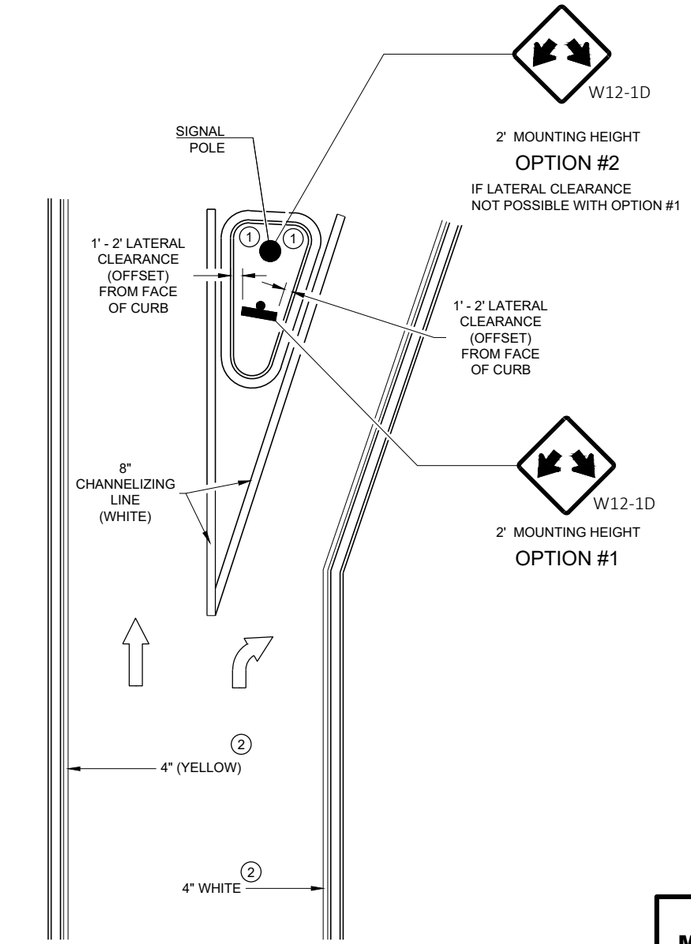
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

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LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

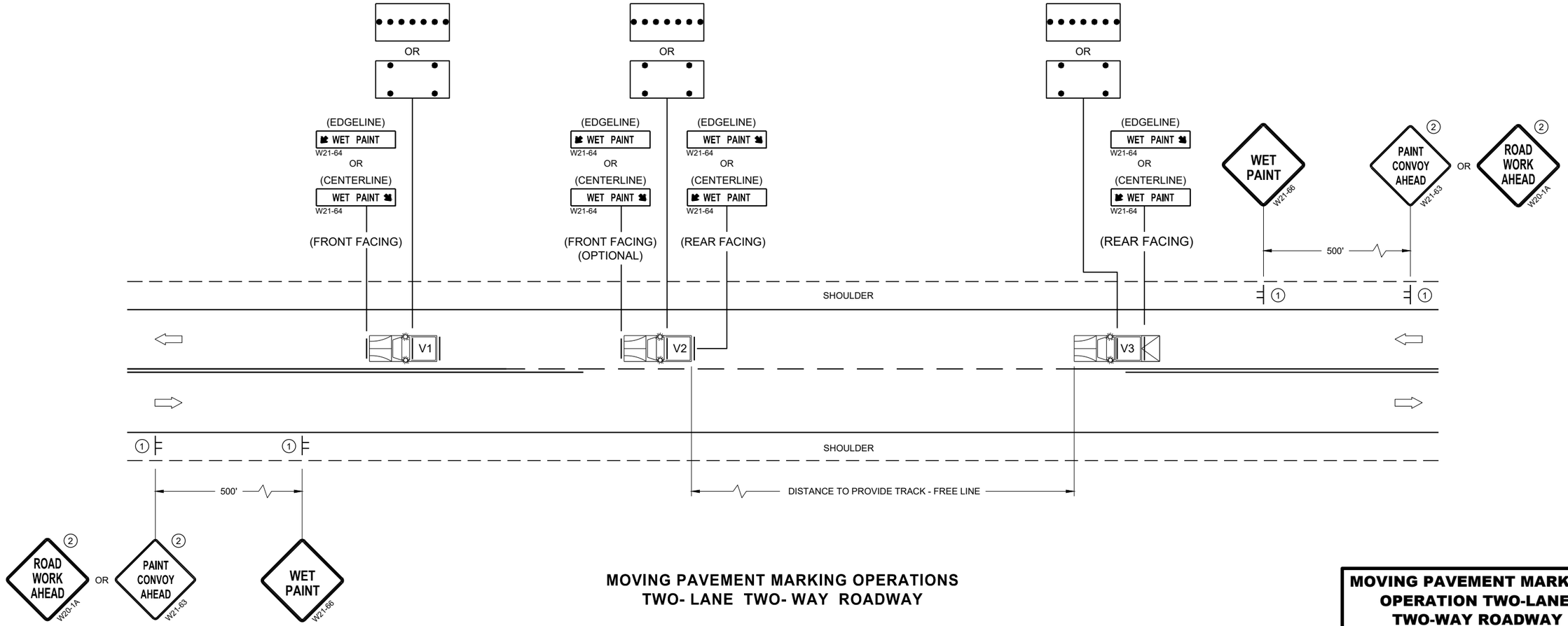
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

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FHWA

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SDD 15C19 - 06a

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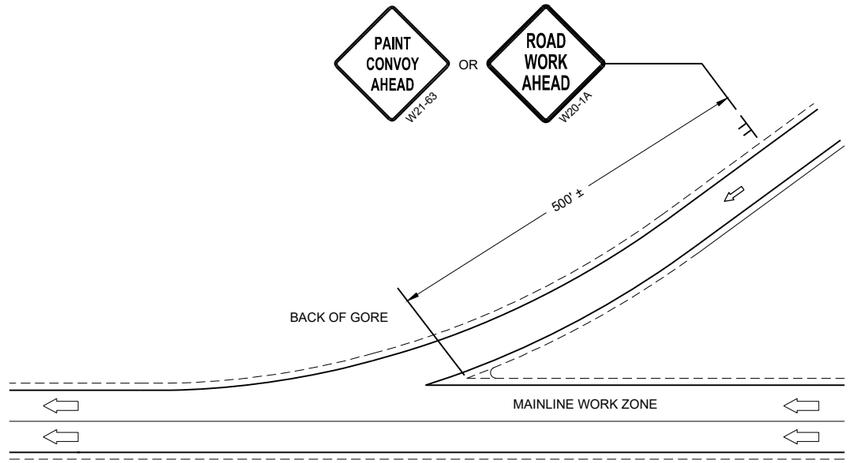
SDD 15C19 - 06a

LEGEND

- V1 MARKING VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE
- TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW PANEL (MERGE)
- FLASHING ARROW PANEL (CAUTION)



GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

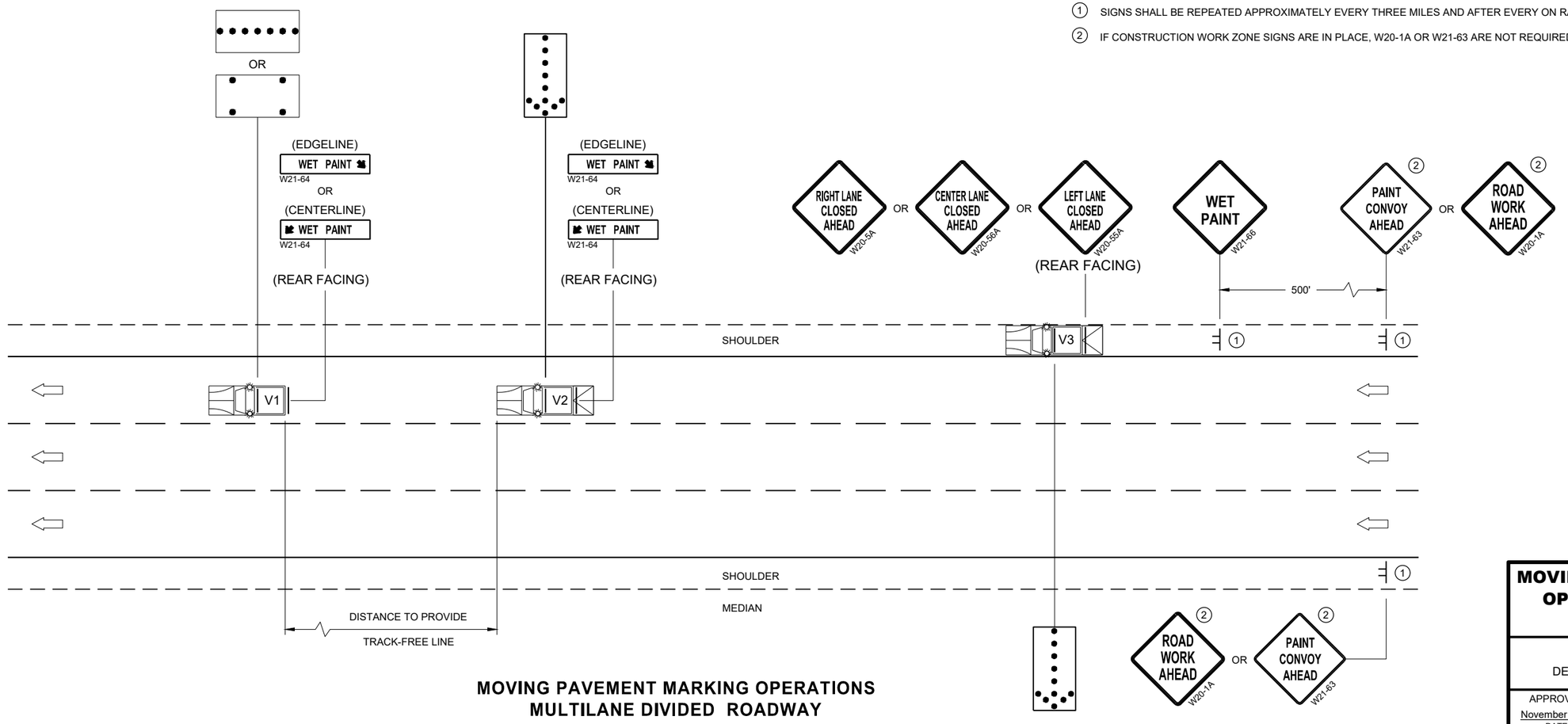
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM HEIGHT OF 18" FOR WET PAVEMENT MARKINGS

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C19 - 06c

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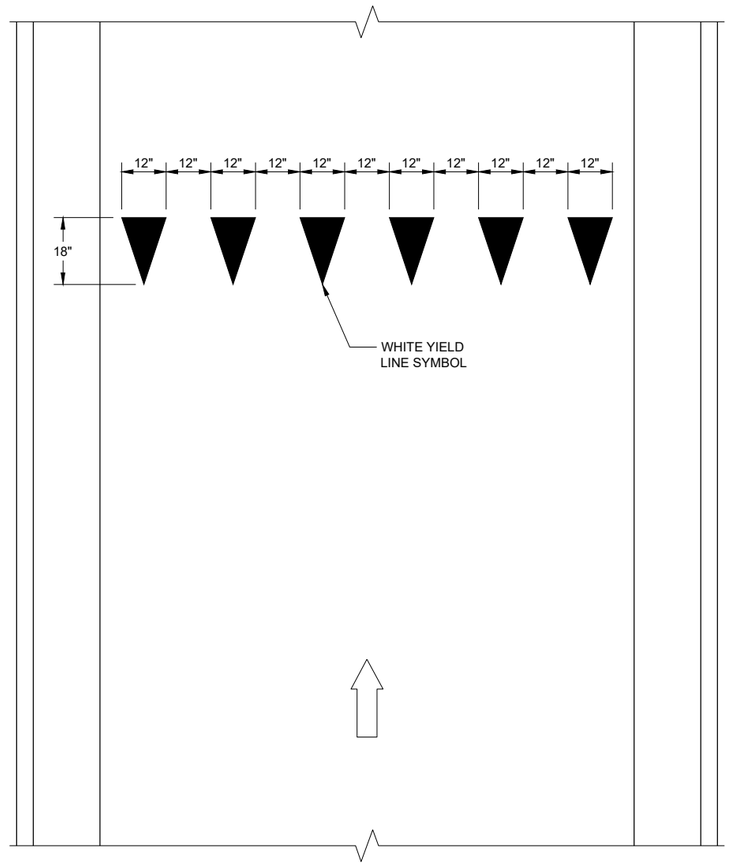
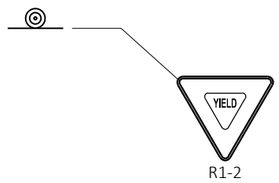
SDD 15C19 - 06c



YIELD LINE



R1-2

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL

6

SDD 15C20 - 02

YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-81-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR ENGINEER

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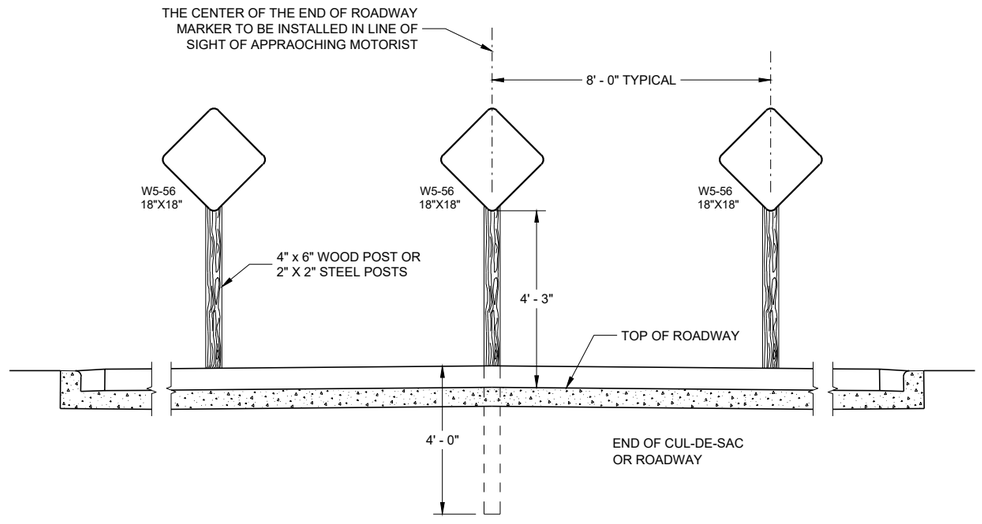
SDD 15C20 - 02

GENERAL NOTES

SIGN LOCATIONS SHOWN ARE TYPICAL PLACEMENT AND MAY BE ADJUSTED BY THE ENGINEER AS FIELD CONDITIONS DICTATE.

THE MINIMUM NUMBER OF END-OF-ROADWAY SIGNS ARE THREE (AS SHOWN). ADDITIONAL END-OF-ROADWAY SIGNS MAY BE INSTALLED AS FIELD CONDITIONS DICTATE. (SEE SIGNING PLAN).

WHEN BEAMGUARD IS REQUIRED, PLACE END-OF-ROADWAY SIGNING BEHIND BEAMGUARD.



TYPICAL SIGN INSTALLATION

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SDD 15C26 - 04

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END-OF-ROADWAY SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAR ENGINEER

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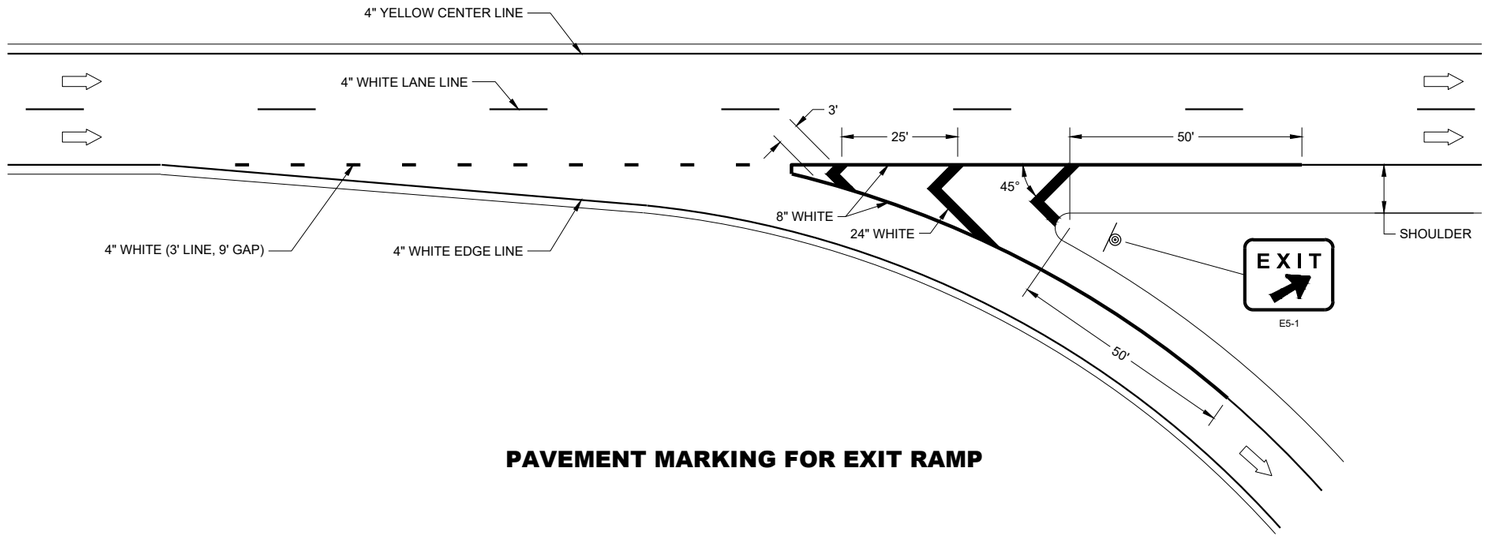
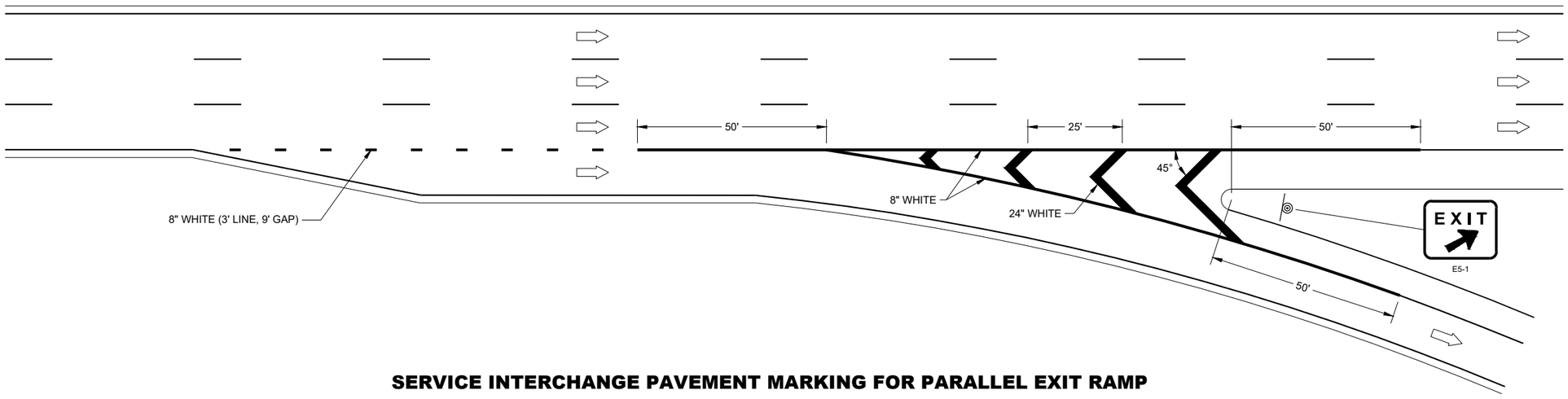


PAVEMENT MARKING FOR EXIT RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT RAMP

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL

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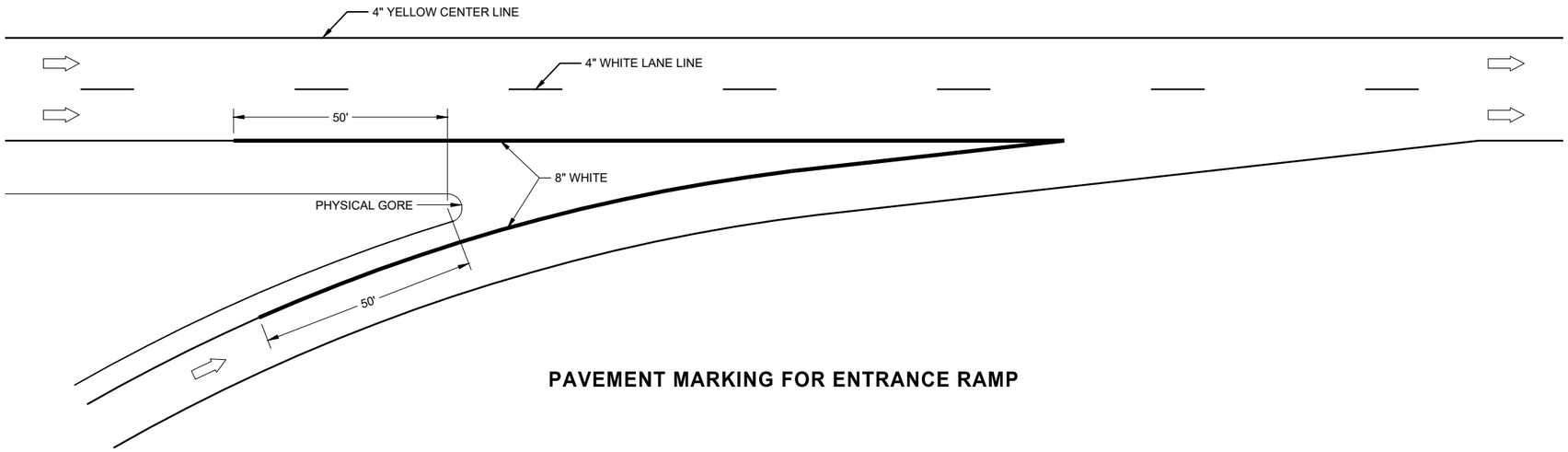
SDD 15C31 - 04a

PAVEMENT MARKING, EXIT RAMP AND PARALLEL EXIT RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C31 - 04a



PAVEMENT MARKING FOR ENTRANCE RAMP

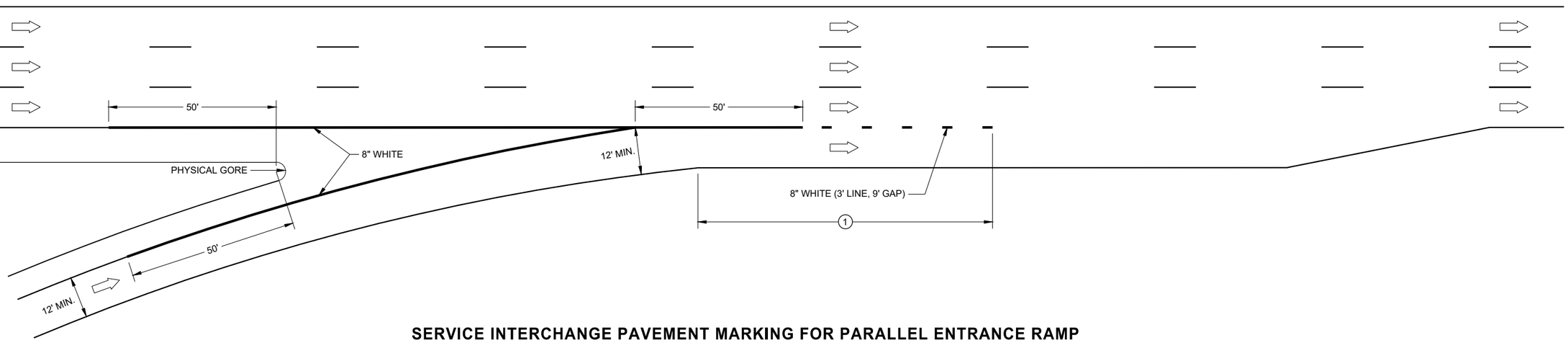
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

(1) ½ LENGTH OF FULL WIDTH ACCELERATION LANE.

LEGEND

DIRECTION OF TRAVEL



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE RAMP

PAVEMENT MARKING, ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14C31 - 04c

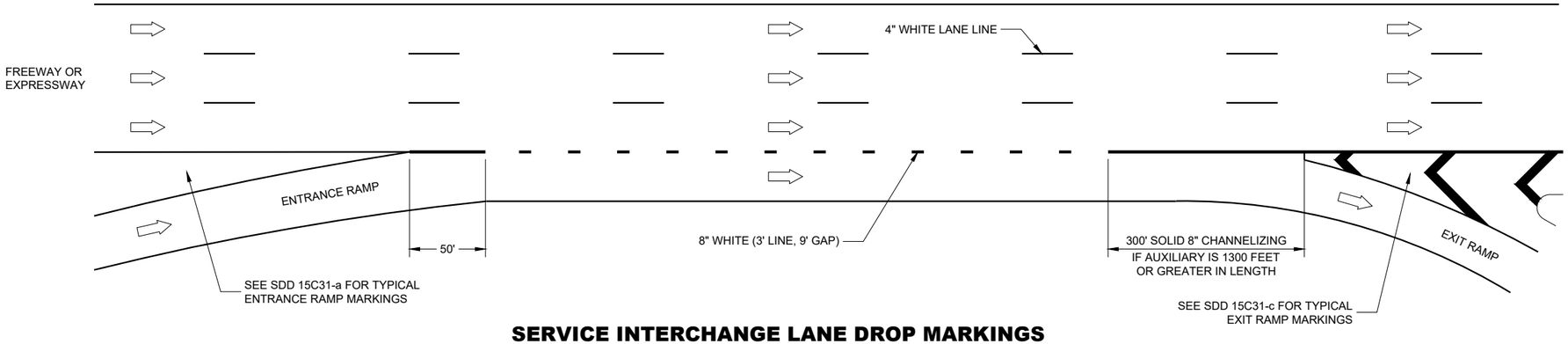
SDD 14C31 - 04c

LEGEND

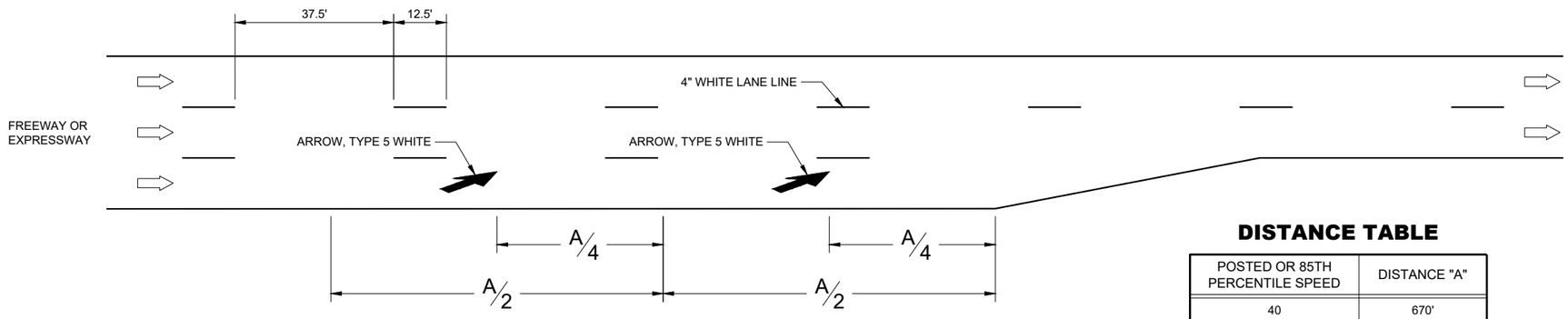
DIRECTION OF TRAVEL

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.



SERVICE INTERCHANGE LANE DROP MARKINGS



LANE REDUCTION MARKINGS

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
40	670'
45	775'
50	885'
55	990'
60	1100'
65	1200'
70	1250'

PAVEMENT MARKING, LANE DROP AND LANE REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 — DATE
/S/ Matthew Rauch — STATE MARKING AND SIG ENGINEER
FHWA

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SDD 15C31 - 04d

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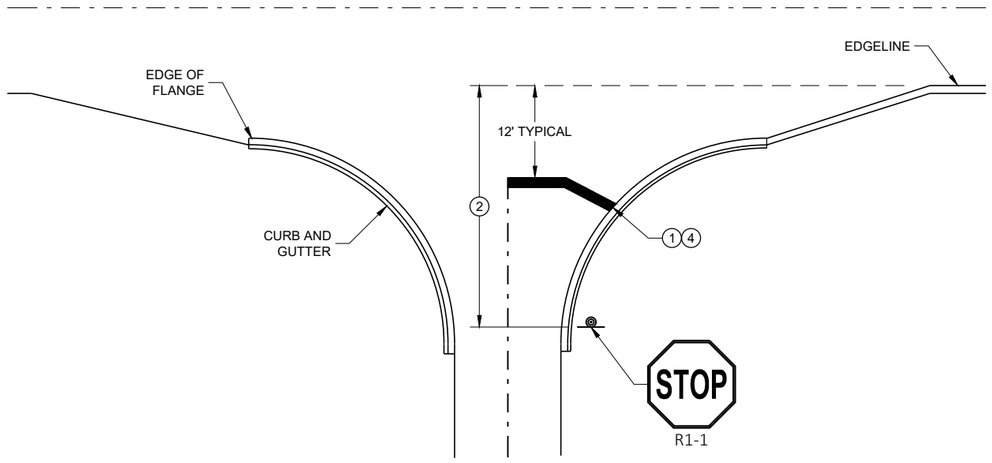
SDD 15C31 - 04d

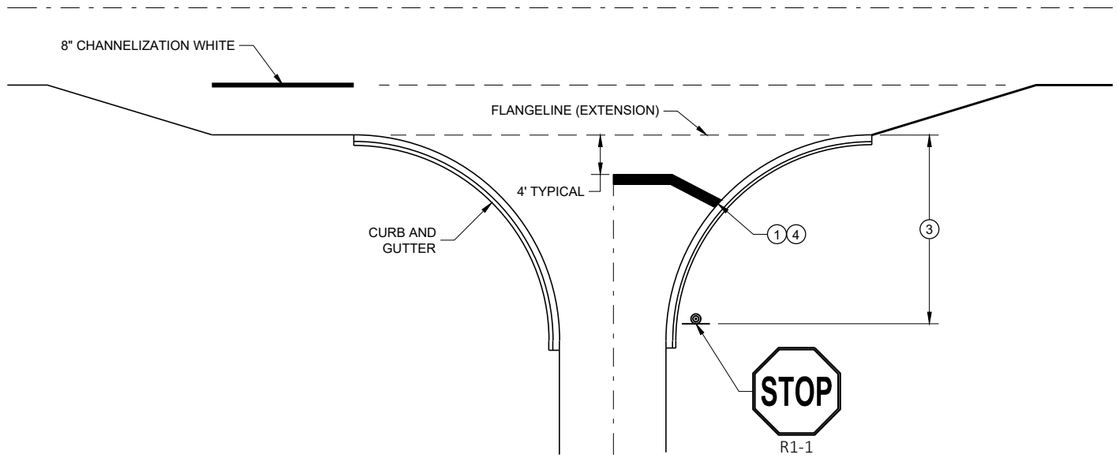
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

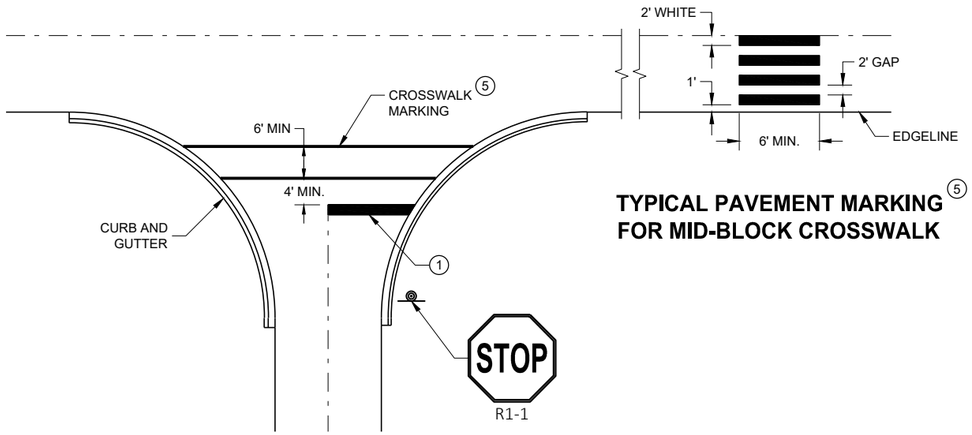
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

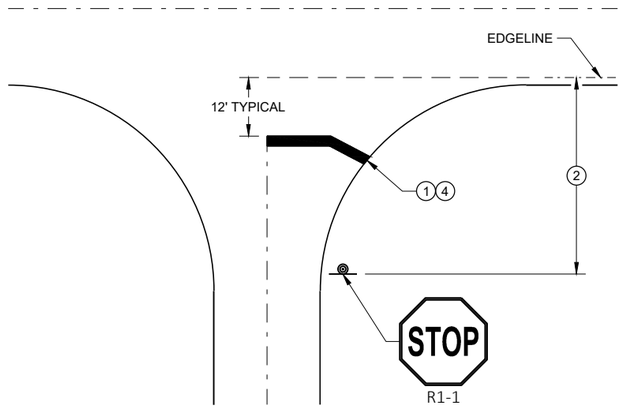


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

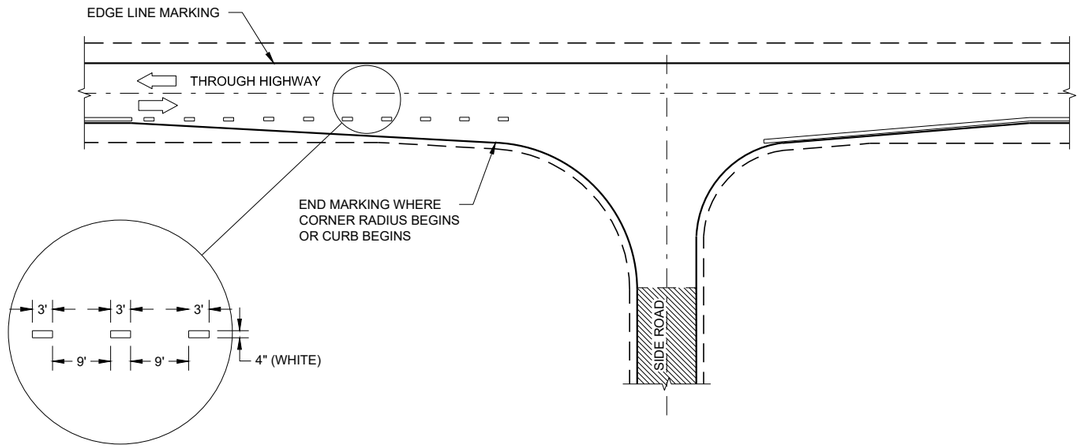
FHWA

6

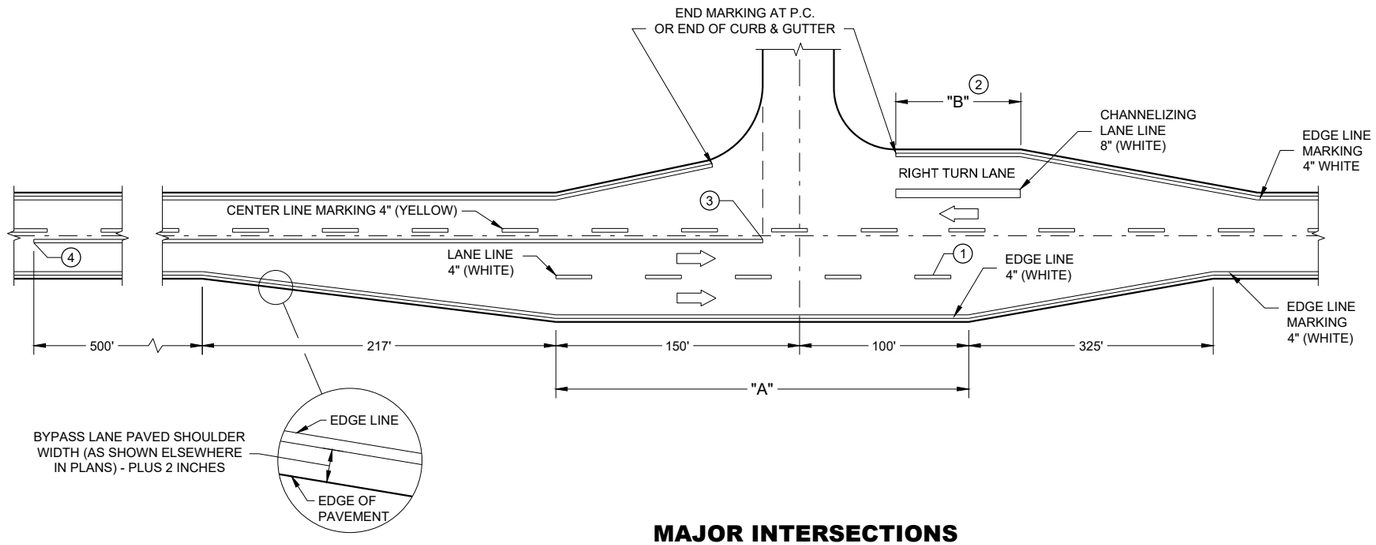
SDD 15C33 - 04

6

SDD 15C33 - 04



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

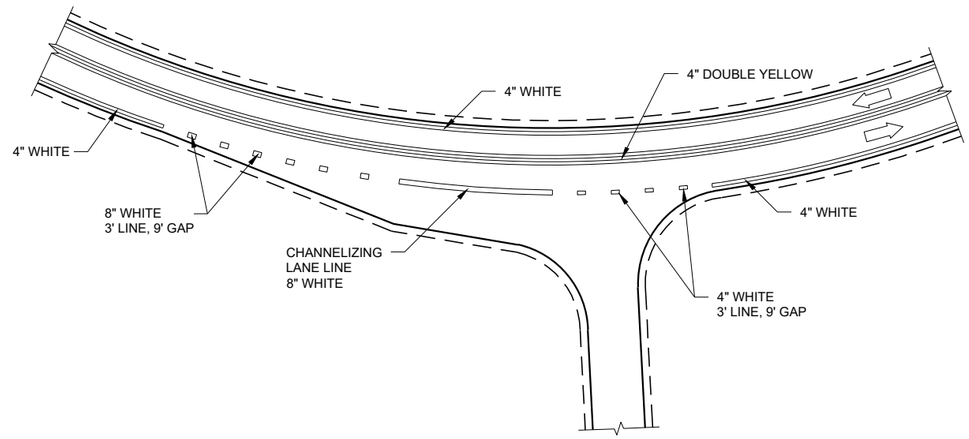
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 04a

6

SDD 15C35 - 04a

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

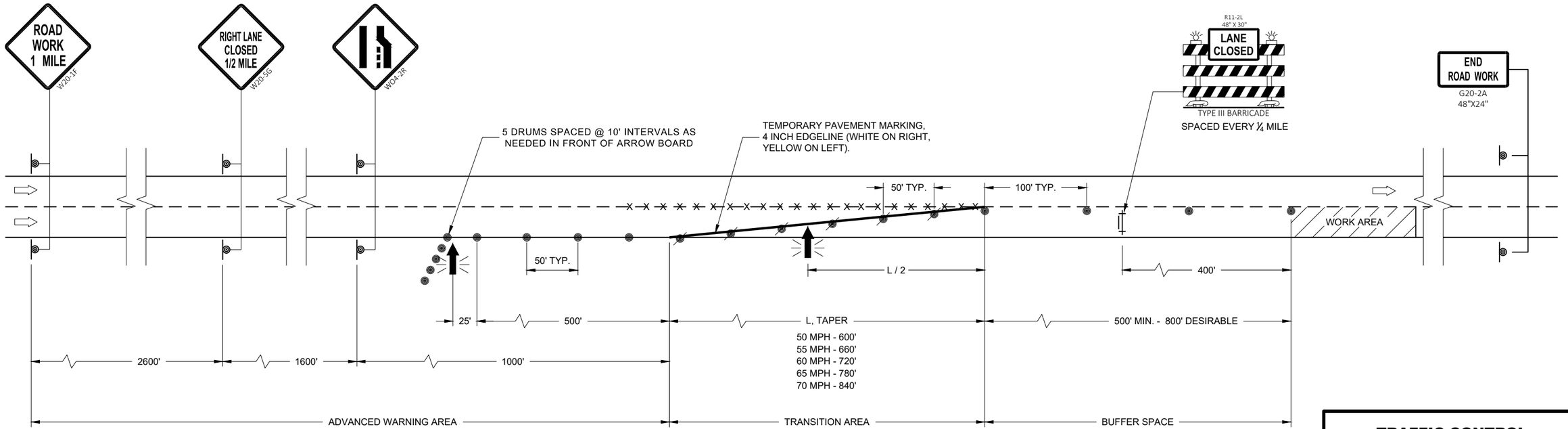
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

788

FHWA

6

SDD 15D12 - 09a

6

SDD 15D12 - 09a

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

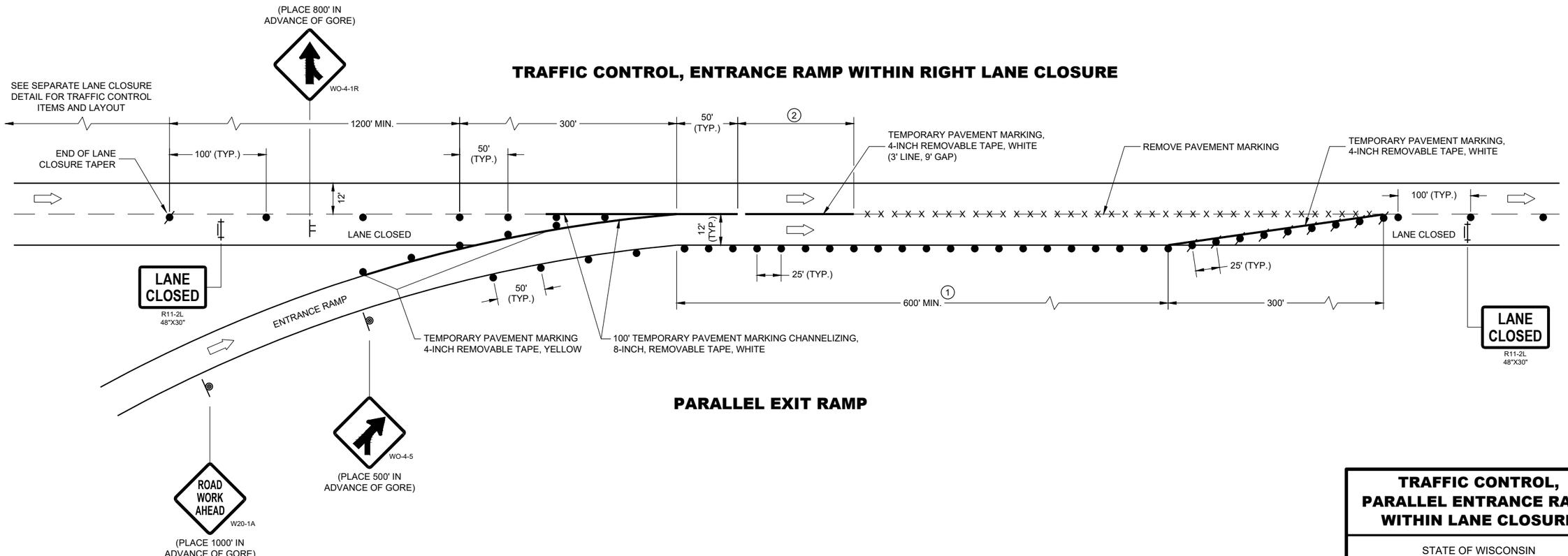
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) EXTEND THE LENGTH OF THE MERGE ARE IF THE ENTERING (DESIGN) SPEED IS LESS THAN 50MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.

(2) END TEMPORARY MARKING AT ½ THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN RIGHT LANE CLOSURE



PARALLEL EXIT RAMP

TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15D15 - 05a

SDD 15D15 - 05a

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE WITH ATTACHED SIGN

FLAGS, 16" X 16" MIN., ORANGE

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

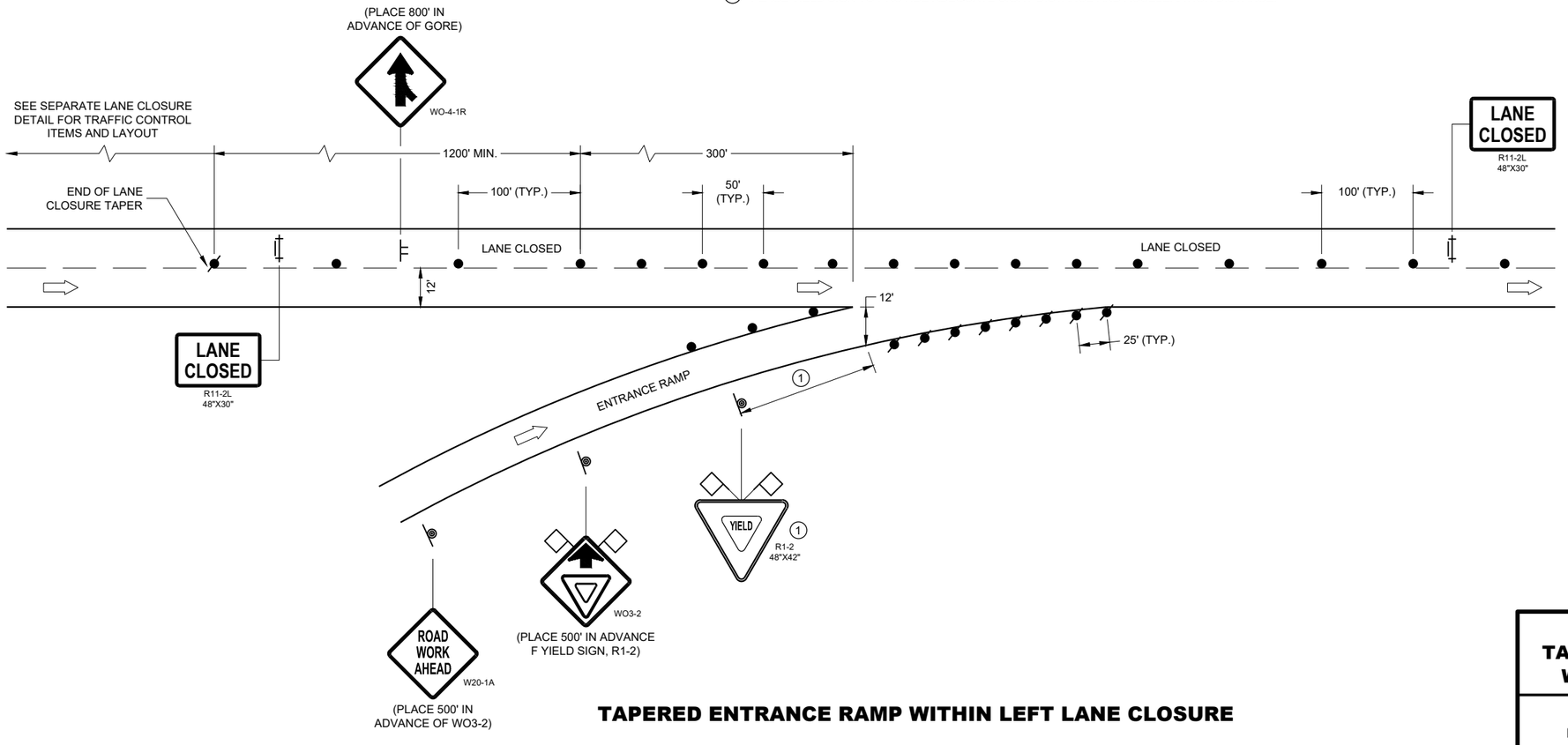
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) PLACE YIELD SIGN TO PROVIDE ADEQUATE SIGHT DISTANCE AND ACCELERATION DISTANCE.



TAPERED ENTRANCE RAMP WITHIN LEFT LANE CLOSURE

TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE 790
FHWA

6

SDD 15D15 - 05d

6

SDD 15D15 - 05d

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

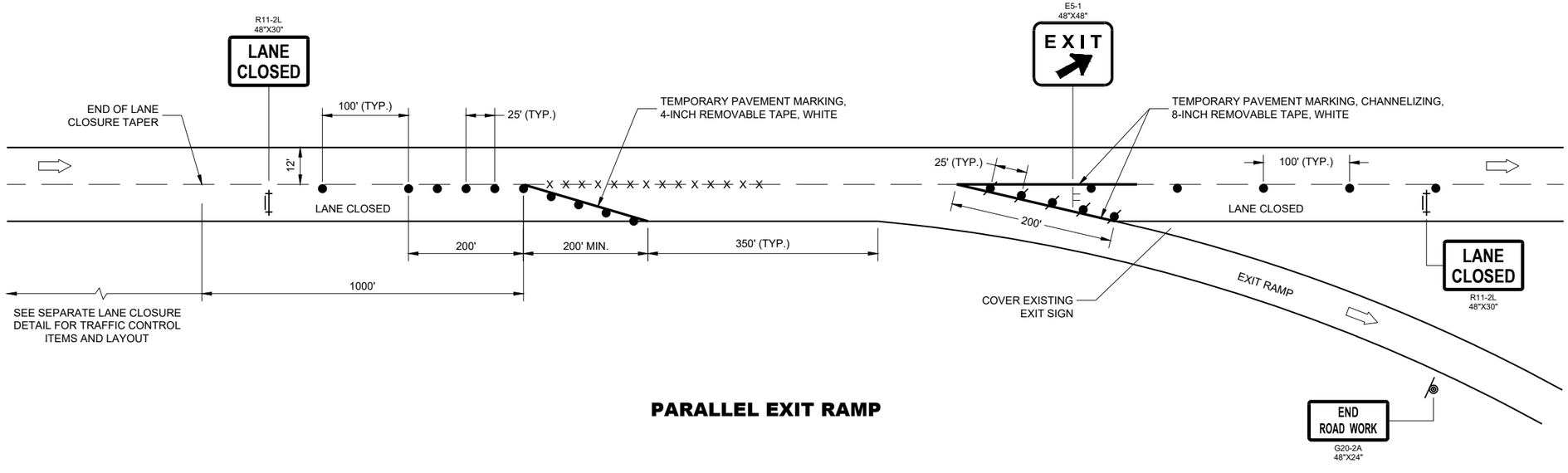
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



PARALLEL EXIT RAMP

TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD15D15 - 05e

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

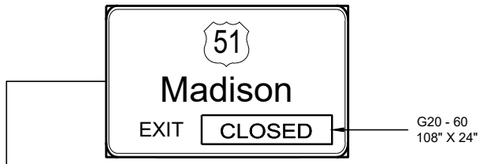
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

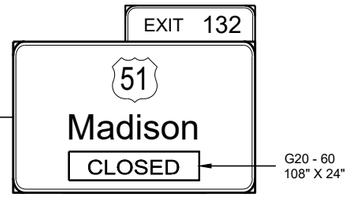
WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

* W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



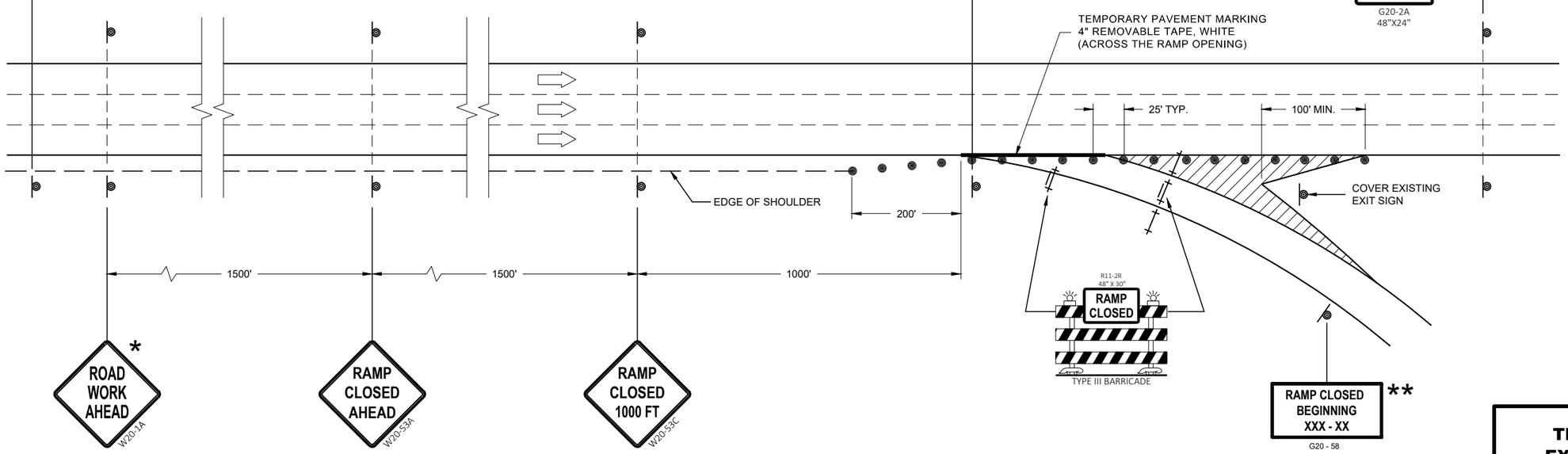
OR



PLACE SIGN G20 - 60 OVER MILEAGE ON EXISTING E1 - 1A SIGN

COVER ARROW ON EXISTING E4 - 1 SIGN (COVERING SIGNS TYPE I)

G20 - 61
120 ' X 30"



OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 15D16 - 04

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

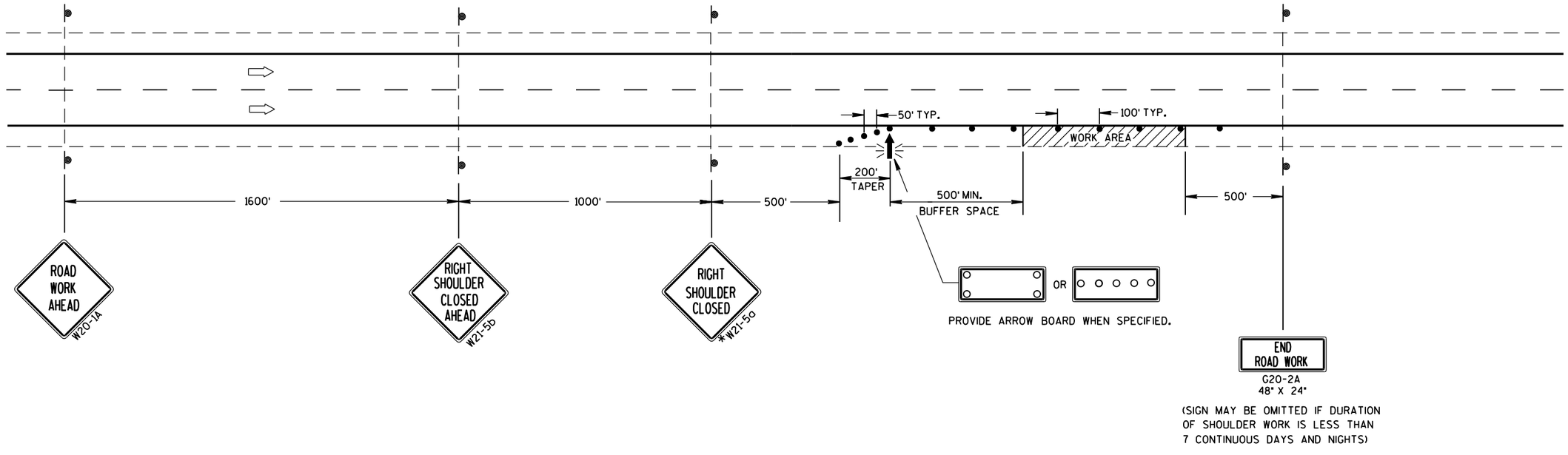
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

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S.D.D. 15 D 27-3

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

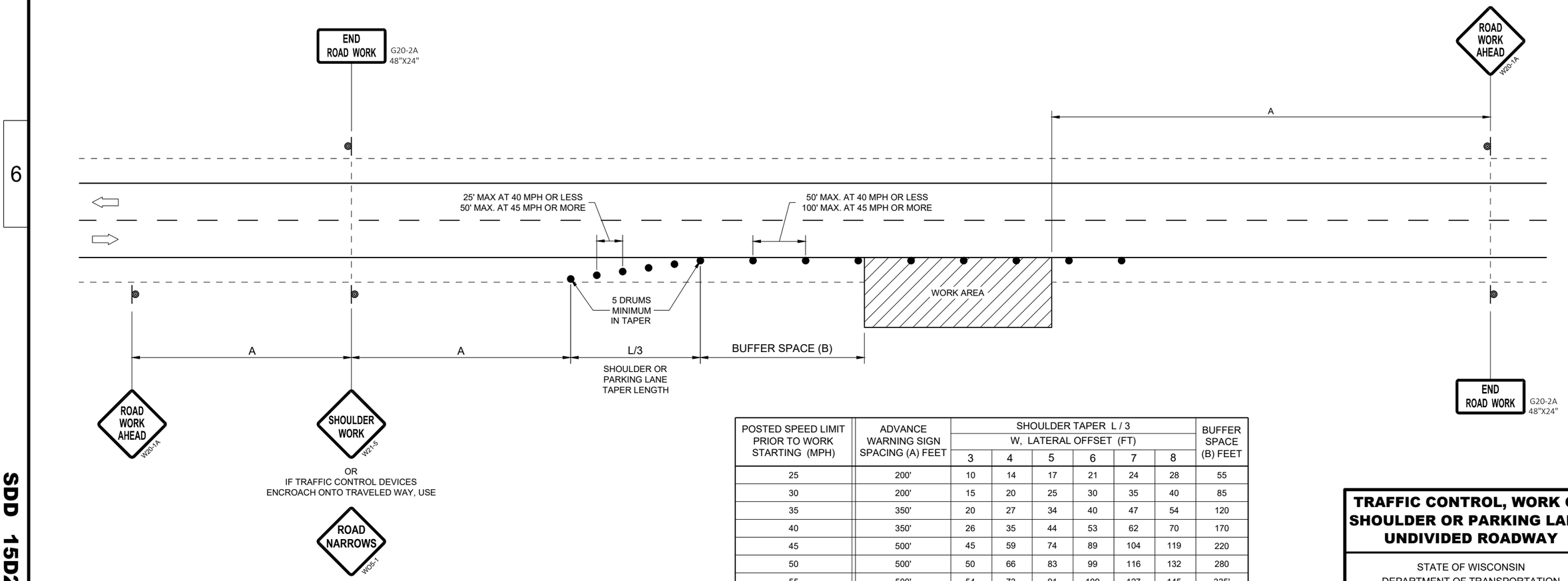
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

794

6

SDD 15D28 - 04

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SDD 15D28 - 04

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET
0-30	200'
35-40	350'
45-55	500'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

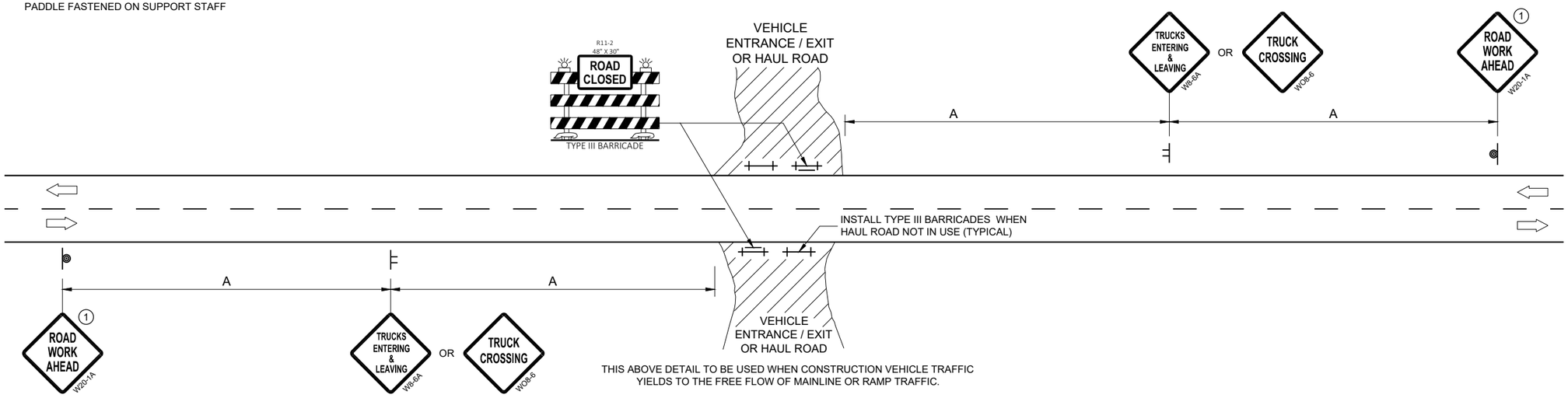
WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

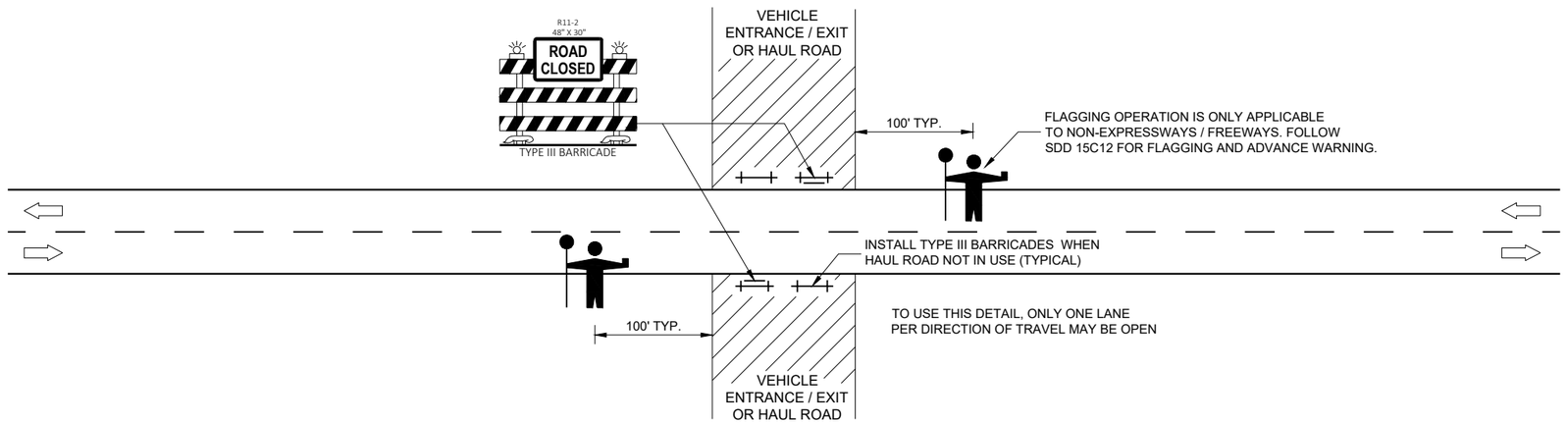
WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

(1) THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE ENTRANCE / EXIT CONDITIONS ARE SEPARATED BY MORE THAN TWO MILES FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.



THIS ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC.



TO USE THIS DETAIL, ONLY ONE LANE PER DIRECTION OF TRAVEL MAY BE OPEN

THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

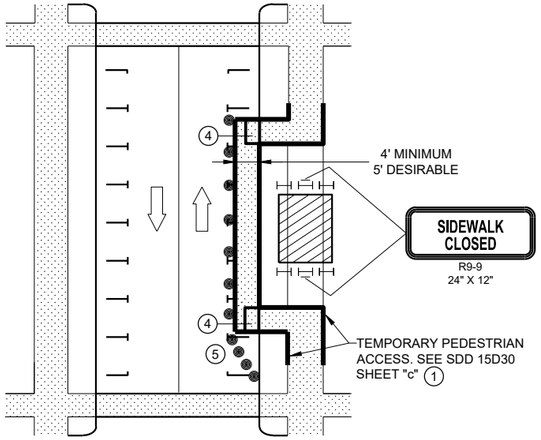
795

FHWA

6

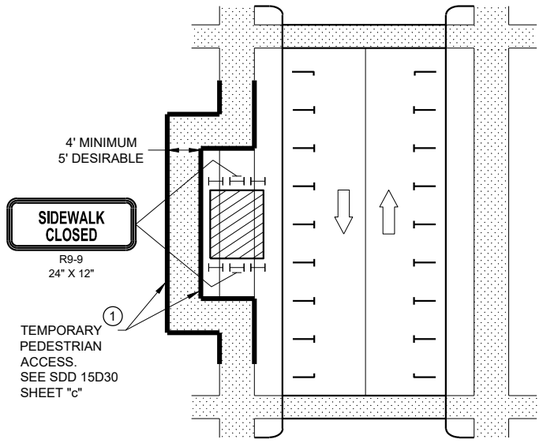
SDD 15D29 - 06

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

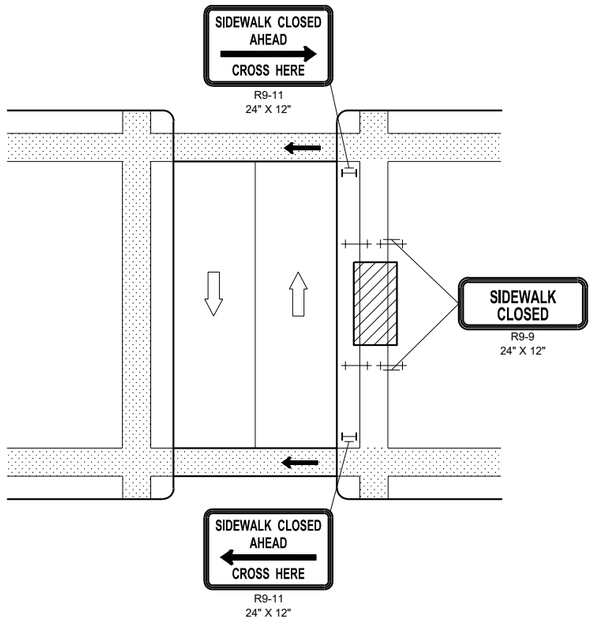


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

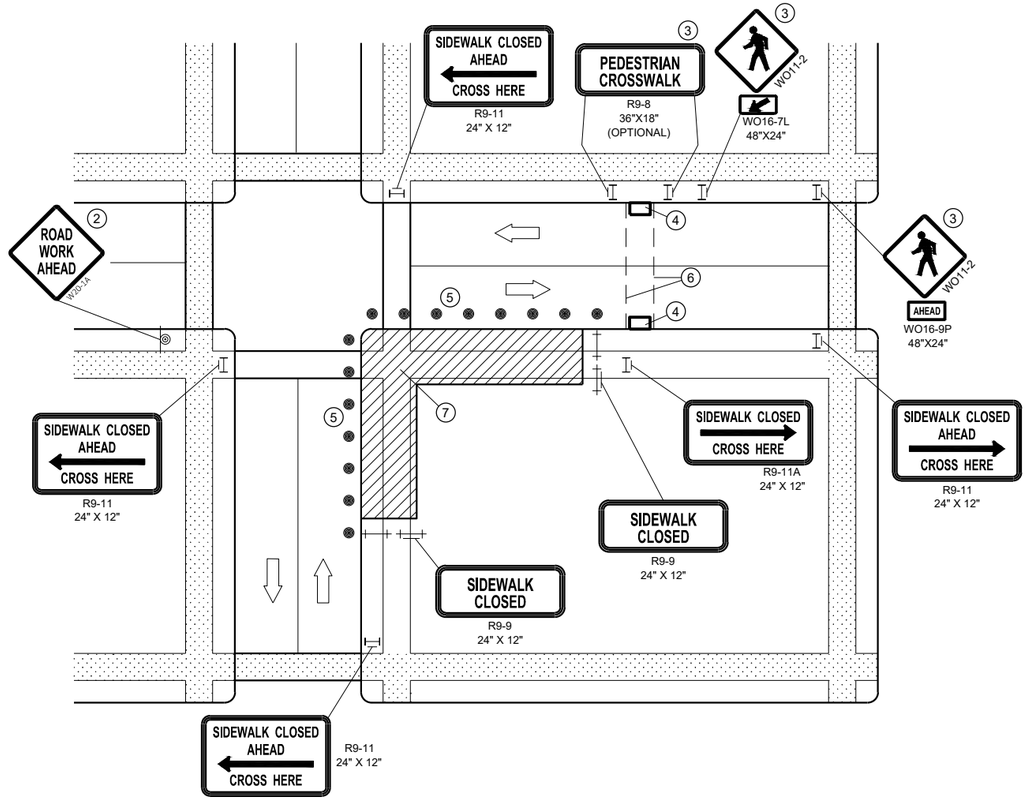
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

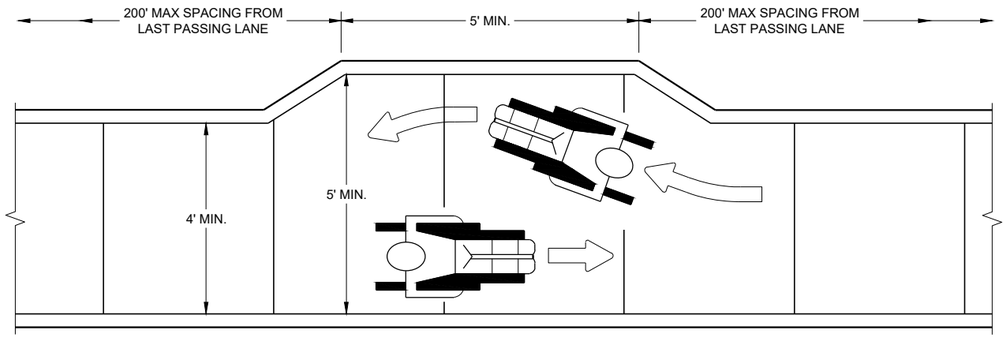
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

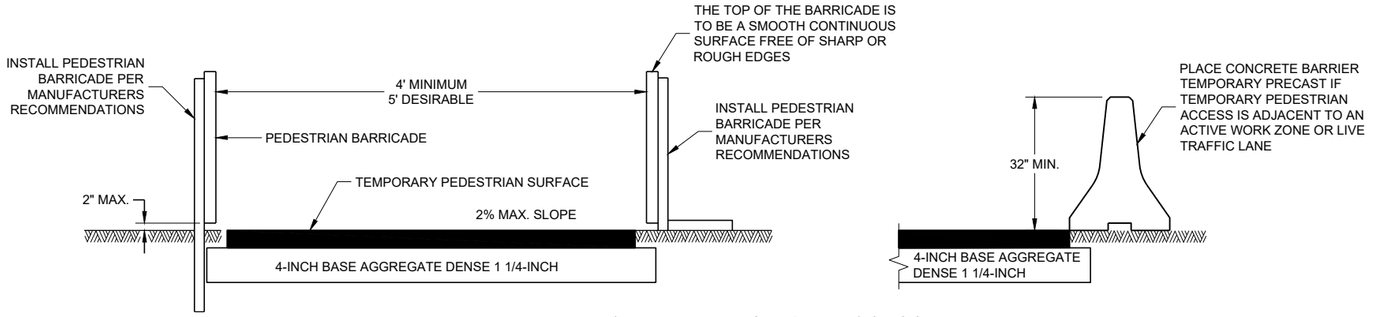
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

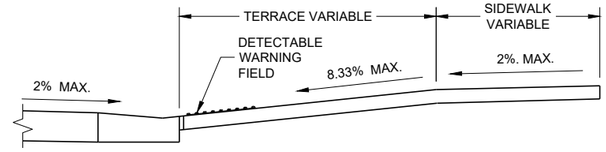
SDD15D30 - 06a



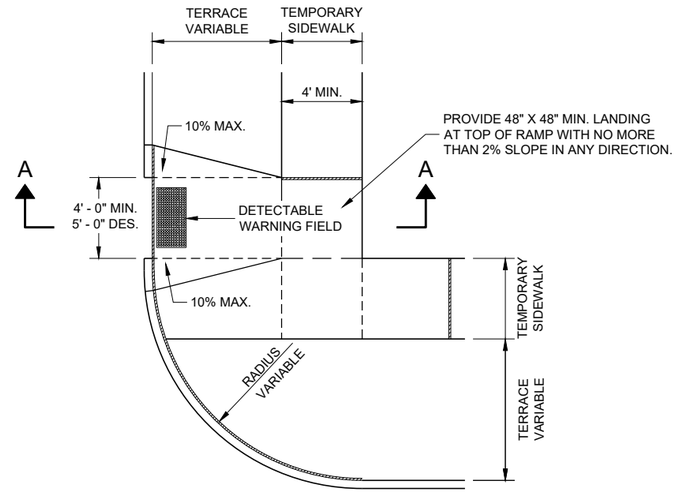
NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS



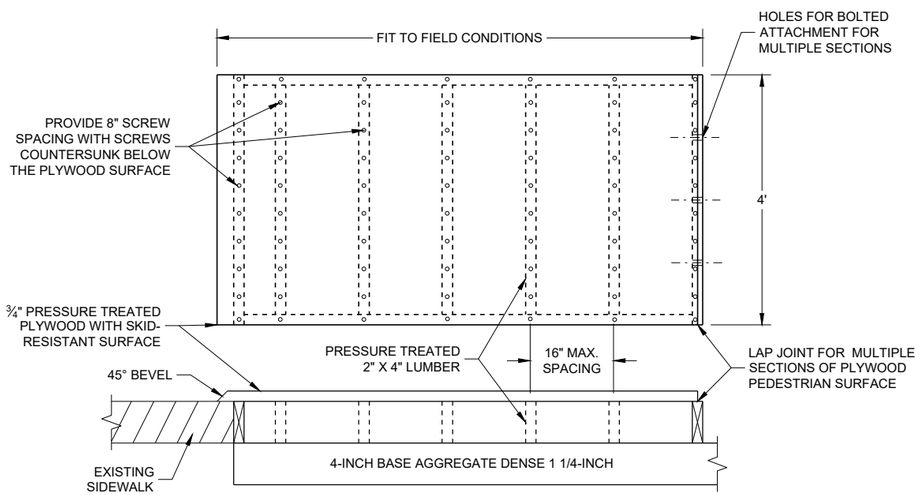
SECTION A - A



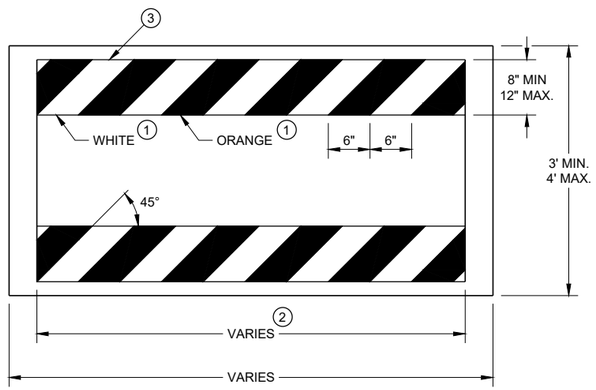
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE 797

FHWA

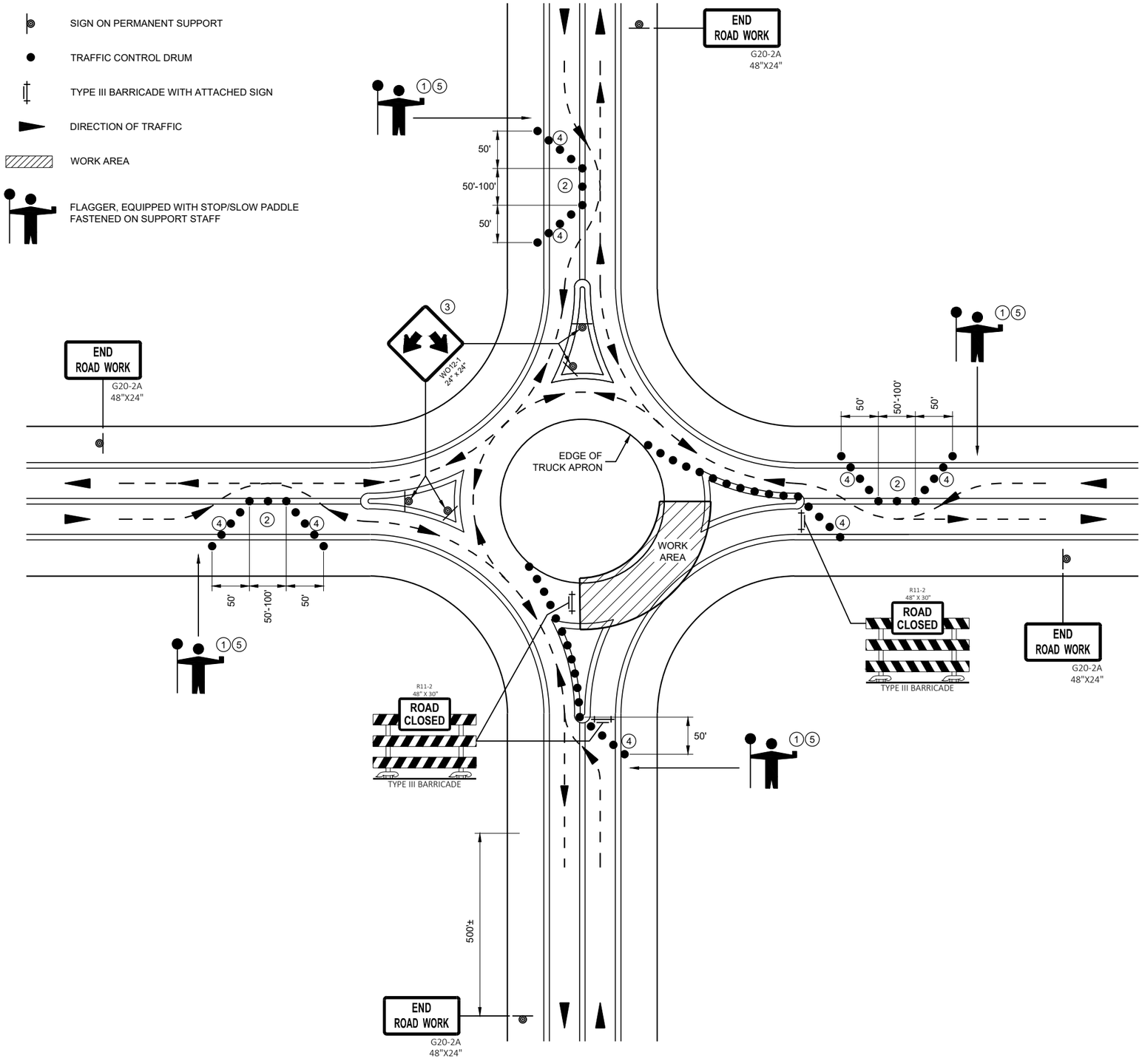
SDD 15D30 - 06c

6

SDD 15D30 - 06c

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



GENERAL NOTES

ALL SIGNS ARE 48"X48" BLACK ON ORANGE UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ONLY ONE QUADRANT OF TRAFFIC SHALL BE RELEASED AT A TIME.

FLAGGERS SHALL CONTROL TRAFFIC ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. ONE FLAGGER SHALL BE DESIGNATED LEAD FLAGGER.

NIGHT TIME WORK REQUIRES ADDITIONAL LIGHTING AT FLAGGER STATION(S).

1. FLAGGERS SHALL BE IN DIRECT RADIO CONTACT AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.
2. ADJUST CHANNELIZING DEVICES TO ACCOMMODATE FOR TURNING RADIUS OF LARGE VEHICLES AS DIRECTED BY THE ENGINEER.
3. GUIDE SIGN WITH ROAD NAMES MAY BE USED IN LIEU OF THE DOUBLE ARROW (WO12-1) SIGN.
4. THE TWO- WAY TAPER SHOULD BE 50 FEET USING 5 EQUALLY SPACED DRUMS.
5. FOLLOW SDD 15C12 FOR FLAGGING AND ADVANCE WARNING.

RECOMMENDED REDUCED DRUM SPACING WITHIN ROUNDABOUT

MPH	DRUM SPACING (FT)
0-40	25
45-55	50

TRAFFIC CONTROL, FLAGGING OPERATION, ROUNDABOUT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

6
SDD 15D37 - 03

LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE "A" WARNING LIGHT (FLASHING)

DIRECTION OF TRAFFIC

WORK AREA

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

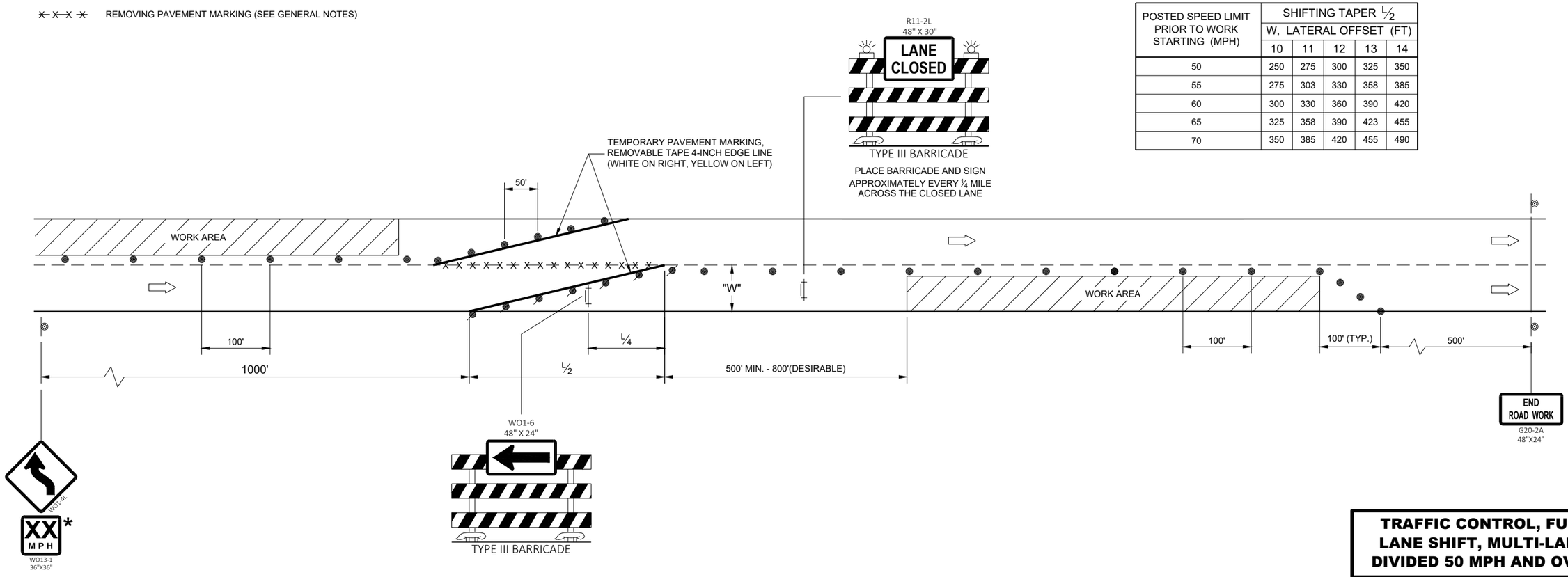
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L½ W, LATERAL OFFSET (FT)				
	10	11	12	13	14
50	250	275	300	325	350
55	275	303	330	358	385
60	300	330	360	390	420
65	325	358	390	423	455
70	350	385	420	455	490



TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE 799

FHWA

SDD 15D40 - 02b

SDD 15D40 - 02b

6

6

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVE PAVEMENT MARKING

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

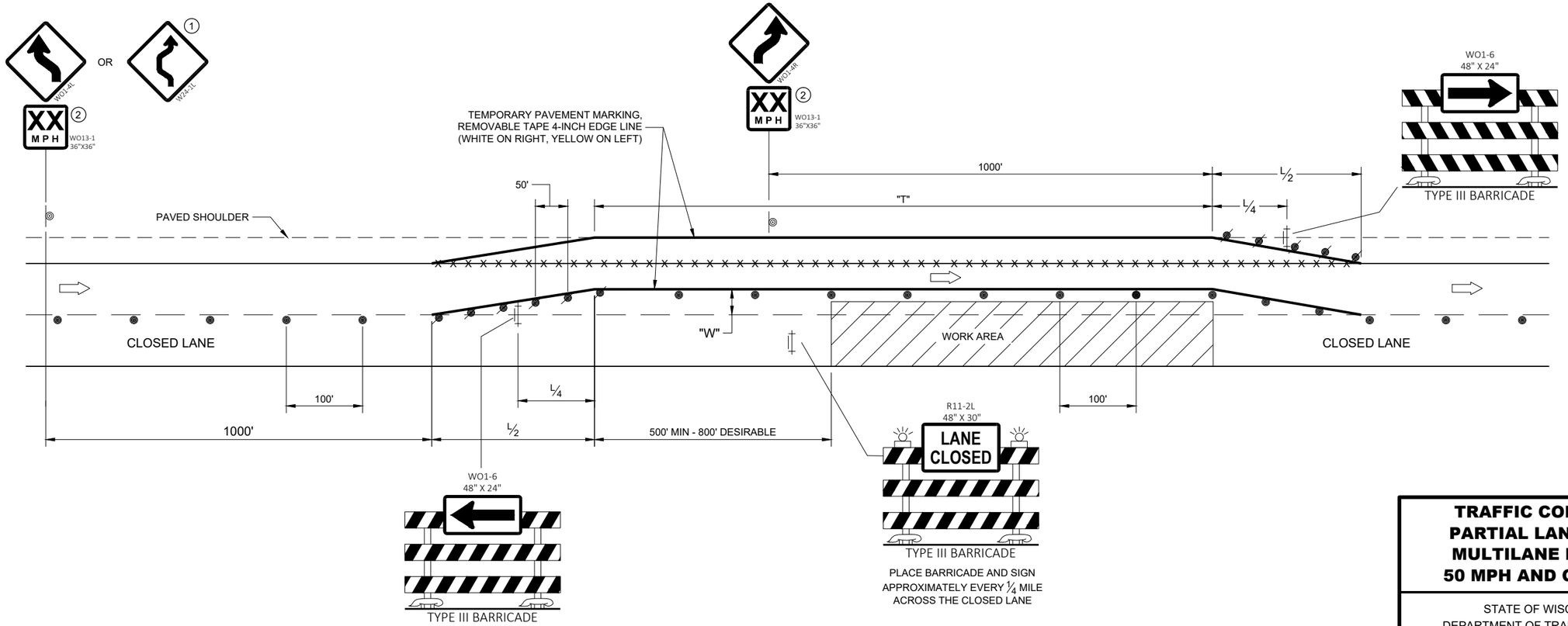
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T<600', OMIT WO1-4R.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)								
	1	2	3	4	5	6	7	8	9
50	25	50	75	100	125	150	175	200	225
55	28	55	83	110	138	165	193	220	248
60	30	60	90	120	150	180	210	240	270
65	33	65	98	130	163	195	228	260	293
70	35	70	105	140	175	210	245	280	315



TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVE ENGINEER
800
FHWA

SDD 15D40 - 02d

6
SDD 15D40 - 02d

LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

CONCRETE BARRIER TEMPORARY PRECAST

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

L, TAPER LENGTH (MPH)							
SPEED (MPH)	W, LATERAL OFFSET (FT)						
	10	11	12	13	14	15	16
45	450	495	540	585	630	675	720
50	500	550	600	650	700	750	800
55	550	605	660	715	770	825	880
60	600	660	720	780	840	900	960
65	650	715	780	845	910	975	1040
70	700	770	840	910	980	1050	1120

OR

LOCATED 3000 FEET BEYOND THE "ROAD WORK 1 MILE" (W20-1F) SIGN

R2-1 48"X60"

OR

R2-1 48"X60"

(BLACK AND WHITE) LOCATED 700 FEET BEYOND THE W03-5 SIGN

IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 3 MILES.

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

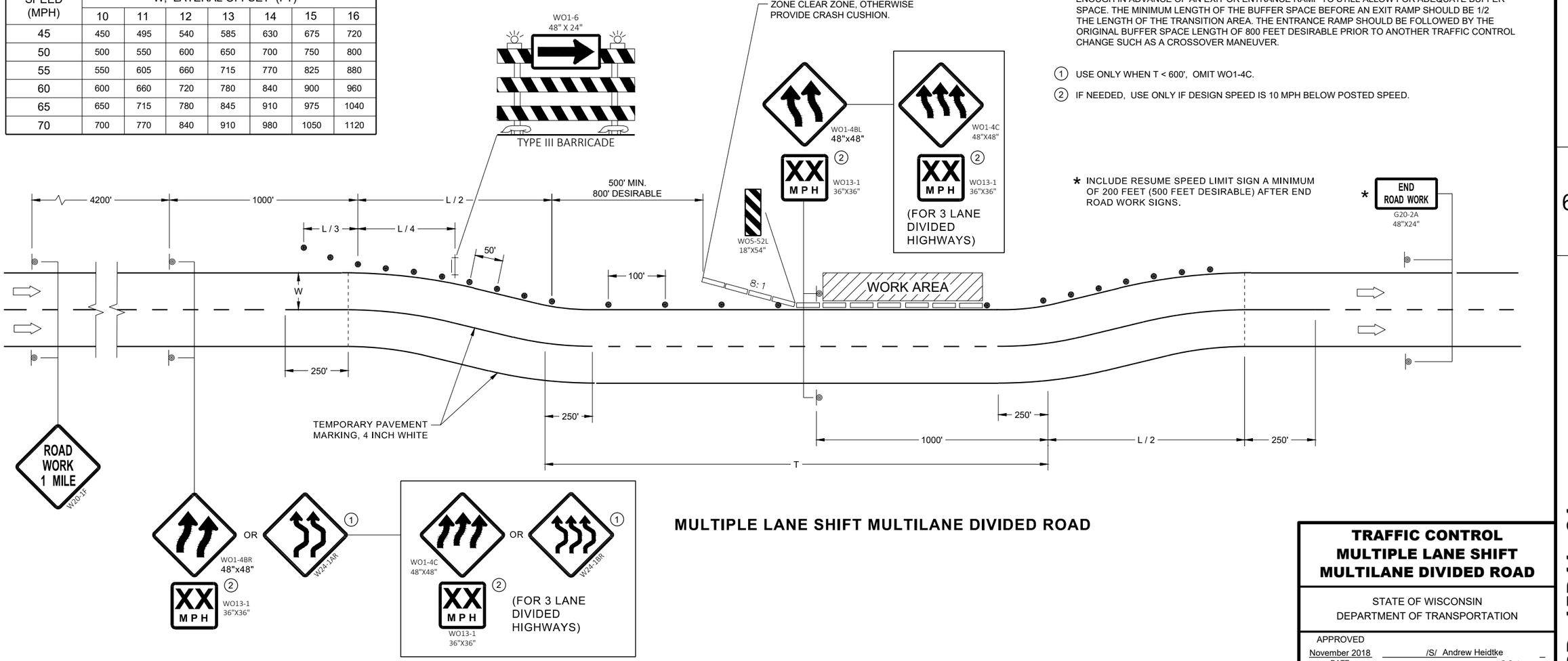
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T < 600', OMIT WO1-4C.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.



MULTIPLE LANE SHIFT MULTILANE DIVIDED ROAD

TRAFFIC CONTROL
MULTIPLE LANE SHIFT
MULTILANE DIVIDED ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
801

FHWA

6

SDD 15D41 - 01

6

SDD 15D41 - 01

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

GENERAL NOTES

RIGHT CLOSURE SHOWN (LEFT LANE CLOSURE SIMILAR)

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS PART OF A DAYTIME ONLY OPERATION.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

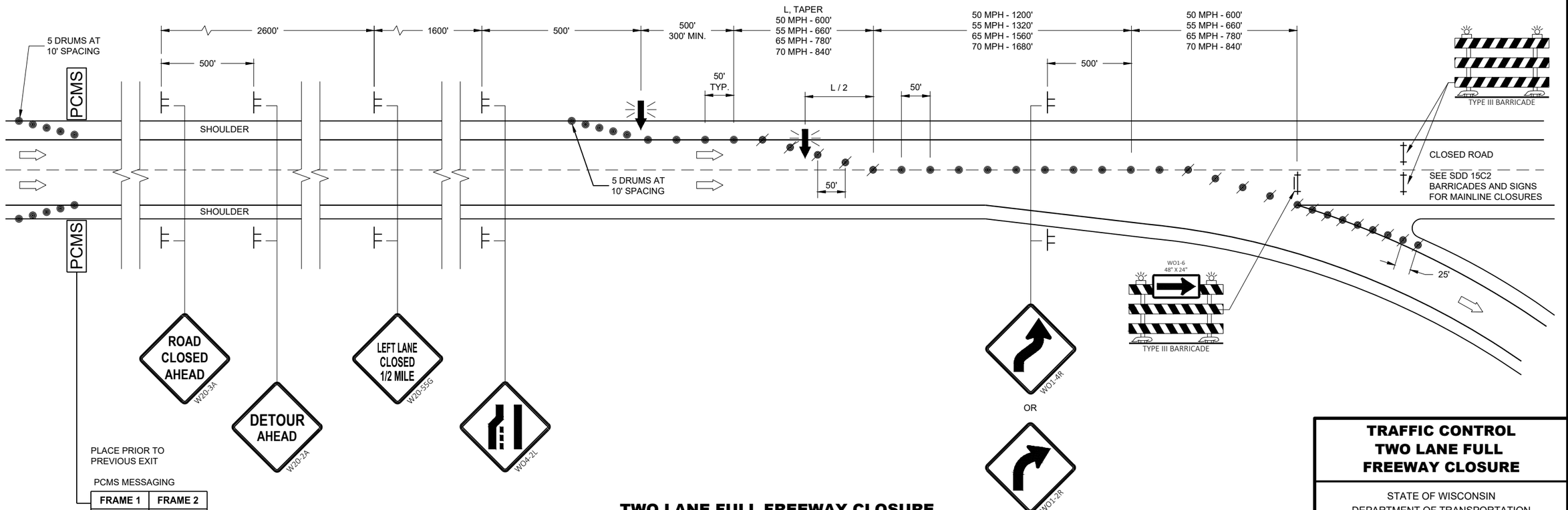
WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROL SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS EACH CLOSED LANE TO HELP REINFORCE THE DRUM LINE.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

REFER TO DETOUR ROUTES FOR TRAFFIC GUIDANCE SIGNING.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.



PLACE PRIOR TO PREVIOUS EXIT

PCMS MESSAGING

FRAME 1	FRAME 2
FREEWAY CLOSED	EXIT AHEAD

TWO LANE FULL FREEWAY CLOSURE

TRAFFIC CONTROL TWO LANE FULL FREEWAY CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE 802

FHWA

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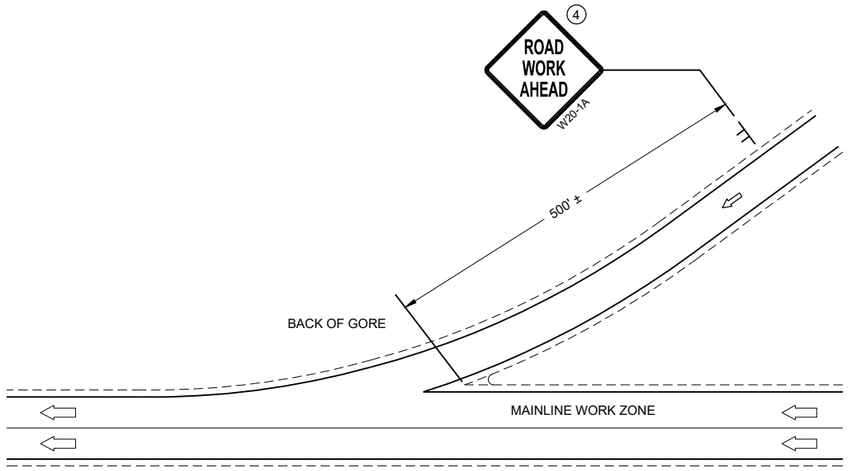
SDD 15D42 - 01

SDD 15D42 - 01

LEGEND

- V1 SHADOW VEHICLE 1
- V2 SHADOW VEHICLE 2
- V3 ADVANCE WARNING TRUCK
- ● TRAFFIC CONTROL DRUM
- TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW PANEL (MERGE)
- FLASHING ARROW PANEL (CAUTION)
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- WORK AREA



GENERAL NOTES

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

WHEN WORK ACTIVITY BLOCKS THE RIGHT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

(1) DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

(2) DRUMS ARE TO BE USED FOR BRIDGE DECK SEALING AND OTHER PROJECTS THAT REQUIRE DELINEATION.

(3) WITHIN 5 MILES, RELOCATE SIGNS AS WORK PROGRESSES AND NECESSARY OR AS DIRECTED BY THE ENGINEER.

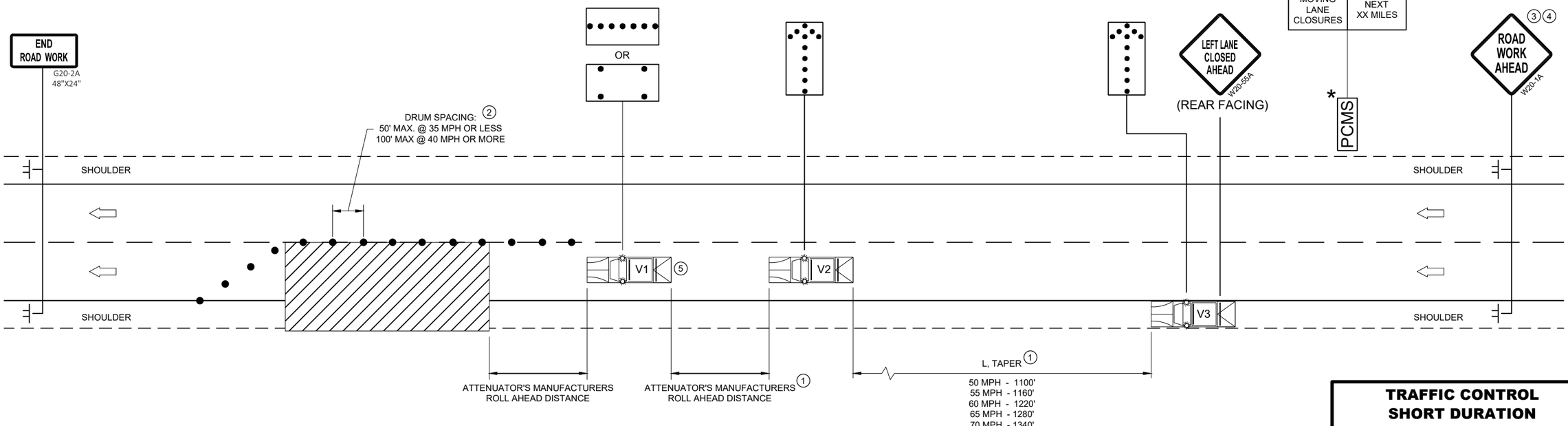
(4) SIGN NOT REQUIRED IF MOVING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(5) SHADOW VEHICLE 1 (V1) IS OPTIONAL

* PCMS OPTIONAL

PCMS MESSAGING

FRAME 1	FRAME 2
MOVING LANE CLOSURES	NEXT XX MILES



TRAFFIC CONTROL SHORT DURATION MOBILE OPERATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

803

FHWA

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SDD 15D43 - 02

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SDD 15D43 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

(1) PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED OR LOOSE GRAVEL SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

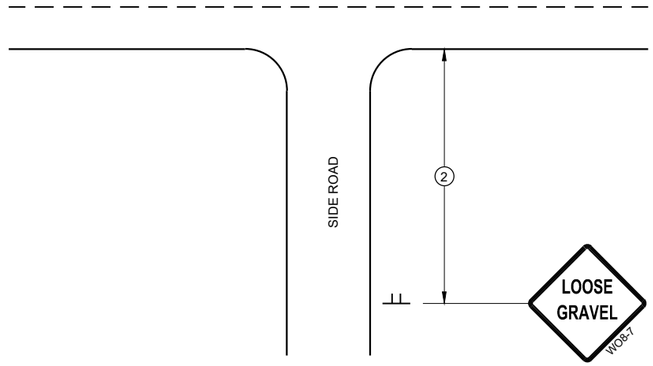
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

(3) ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

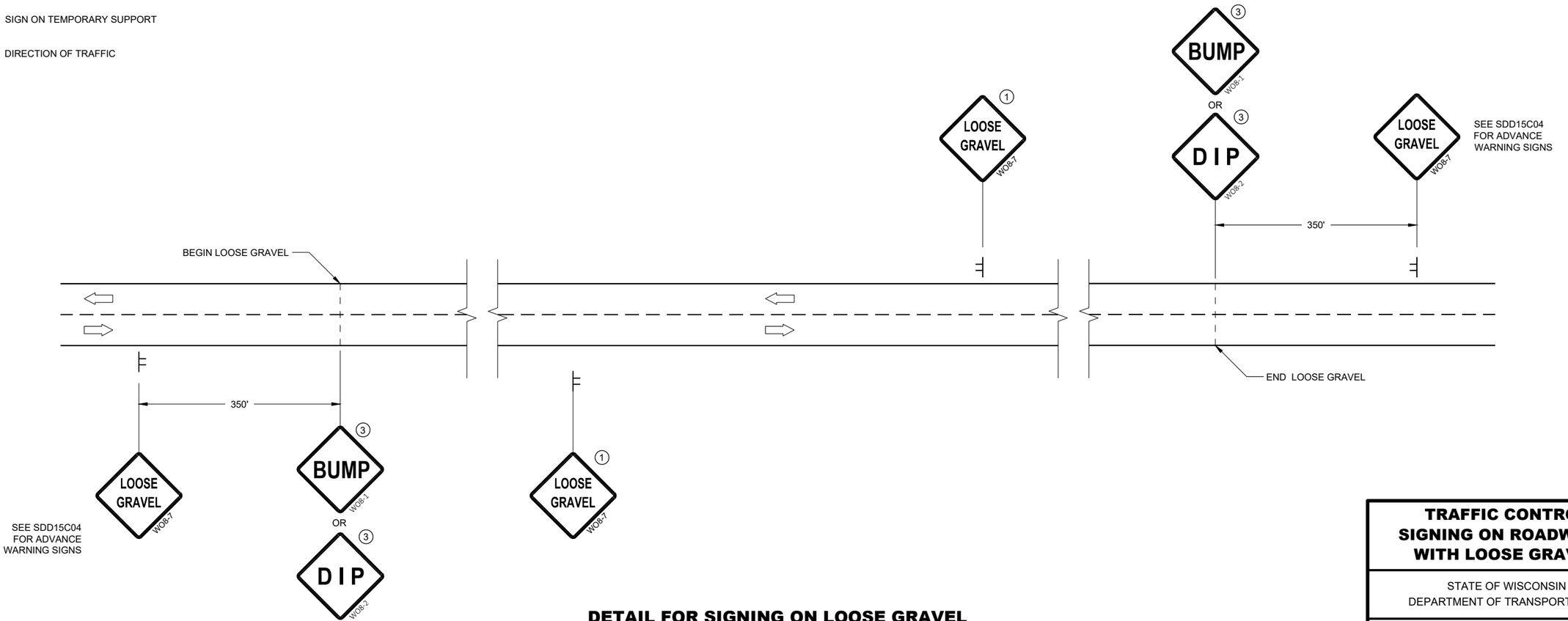
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE 804
FHWA

6

SDD 15D45 - 03

6

SDD 15D45 - 03

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- CONSTRUCTION TRAFFIC
- WORK AREA

TABLE 1

S (MPH)	INGRESS, L	EGRESS, L
50	435'	720'
55	480'	960'
60	530'	1200'
65	570'	1410'
70	615'	1620'

LEGEND

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WORK ZONE INGRESS/EGRESS LOCATIONS SHALL BE APPROVED BY THE ENGINEER. LOCATIONS FOR WORK ZONE ACCESS TO/FROM THE FREEWAY SHALL NOT BE USED FOR INGRESS AND EGRESS AT THE SAME TIME.

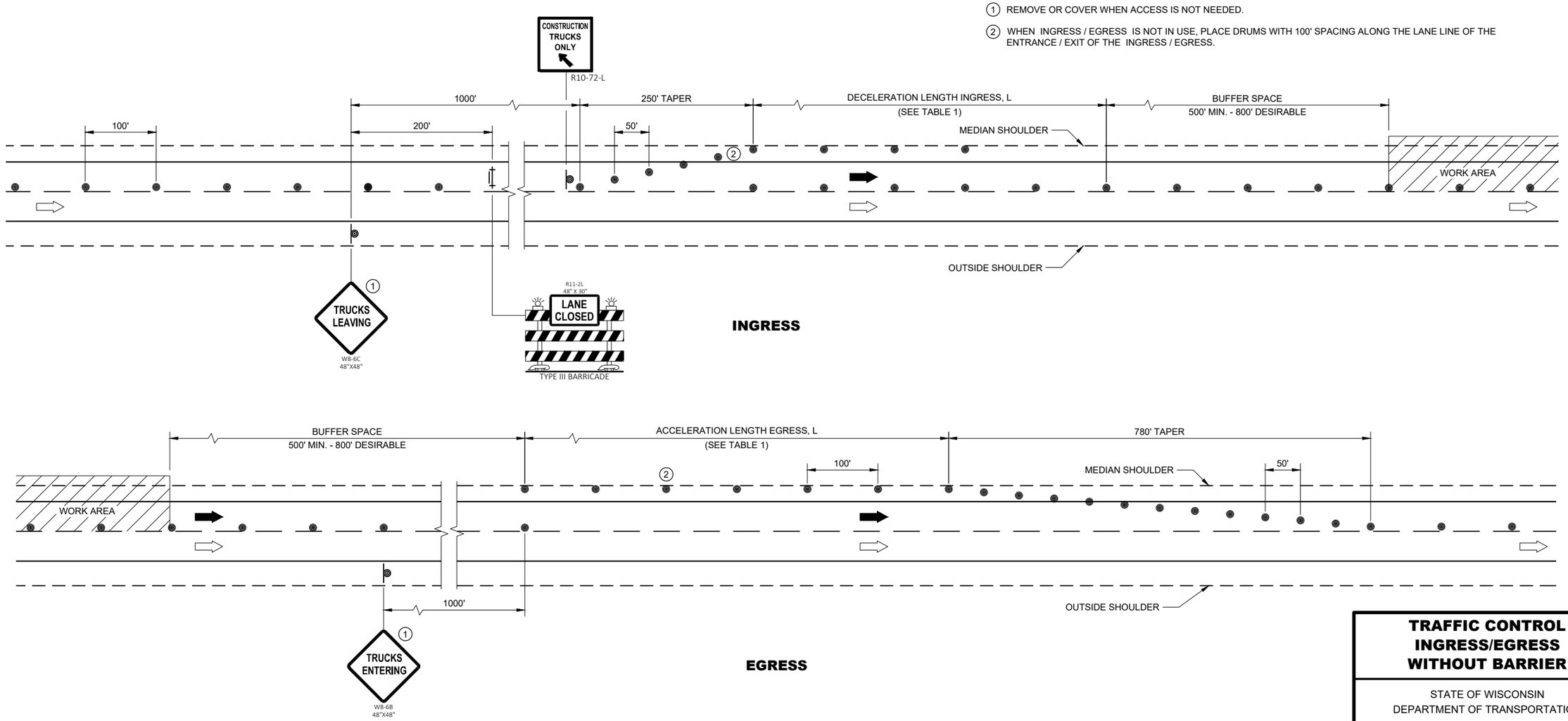
THIS ACCESS DETAIL IS TYPICAL FOR LEFT LANE ACCESS, FOR RIGHT LANE ACCESS, REVERSE THE TRAFFIC CONTROL

TEMPORARY SUPPORTS MAY BE USED IF PLACED BEHIND TEMPORARY BARRIER WALL

TRUCKS SHALL USE FLASHING YELLOW BEACON WHEN ENTERING AND EXITING LIVE TRAFFIC.

(1) REMOVE OR COVER WHEN ACCESS IS NOT NEEDED.

(2) WHEN INGRESS / EGRESS IS NOT IN USE, PLACE DRUMS WITH 100' SPACING ALONG THE LANE LINE OF THE ENTRANCE / EXIT OF THE INGRESS / EGRESS.



TRAFFIC CONTROL INGRESS/EGRESS WITHOUT BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVE ENGINEER

FHWA

805

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SDD 15D47 - 01b

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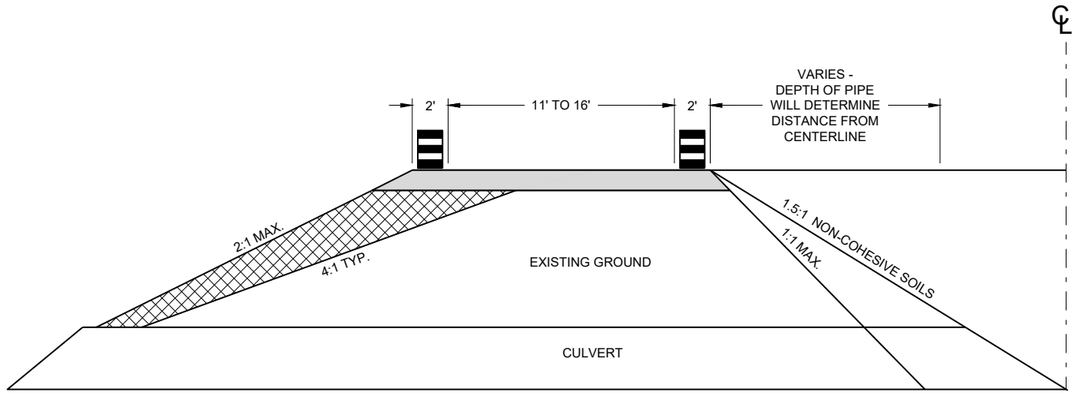
SDD 15D47 - 01b



CROSS SECTION

GENERAL NOTES

USE 1:1 FOR COHESIVE CLAYS AND SILTS, LOAMS, SANDY CLAYS AND ANGULAR GRAVEL SOILS.
USE 1.5:1 FOR NON-COHESIVE SOILS.

THE TAPER SHOULD EXTEND ACROSS THE SHOULDER UNLESS DOING SO WOULD GREATLY CONFLICT WITH THE WORK OPERATION.

ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL DEVICES REMOVED BEYOND THE SHOULDER WHEN WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.

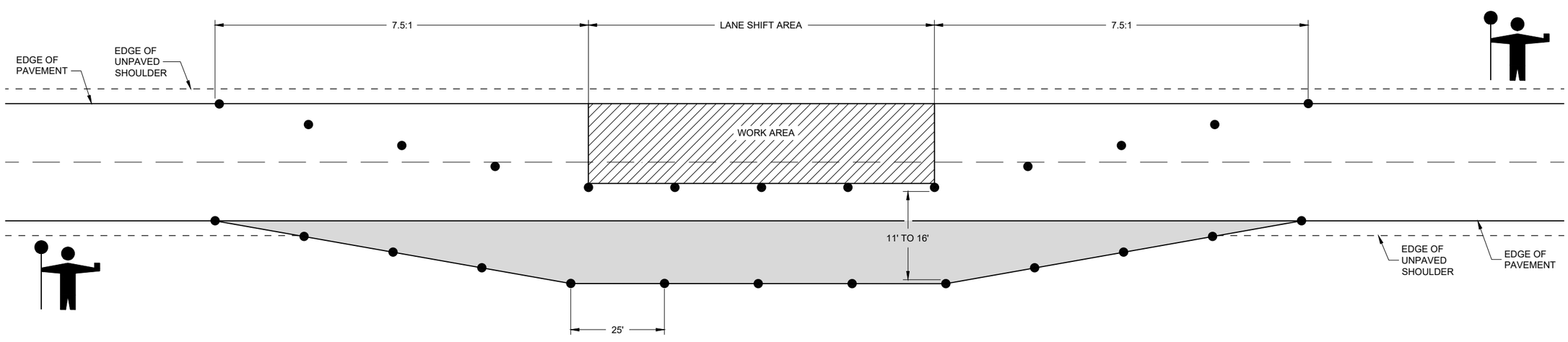
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

USE WITH SDD 15C12 "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"

USE WITH SDD 15D45 "SIGNING ON ROADWAYS WITH LOOSE GRAVEL"

LEGEND

- DRUM WITHOUT WARNING LIGHT
- 6" BASE AGGREGATE DENSE 1 ¼" -INCIDENTAL TO LANE SHIFT ITEM
- FILL - INCIDENTAL TO LANE SHIFT ITEM
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



LANE SHIFT IN FLAGGING OPERATION

TRAFFIC CONTROL, TEMPORARY LANE SHIFT DURING CULVERT WORK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

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SDD 15D48 - 01

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SDD 15D48 - 01

LEGEND

V1 WORK VEHICLE

V2 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

WORK AREA

DIRECTION OF TRAFFIC

POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.

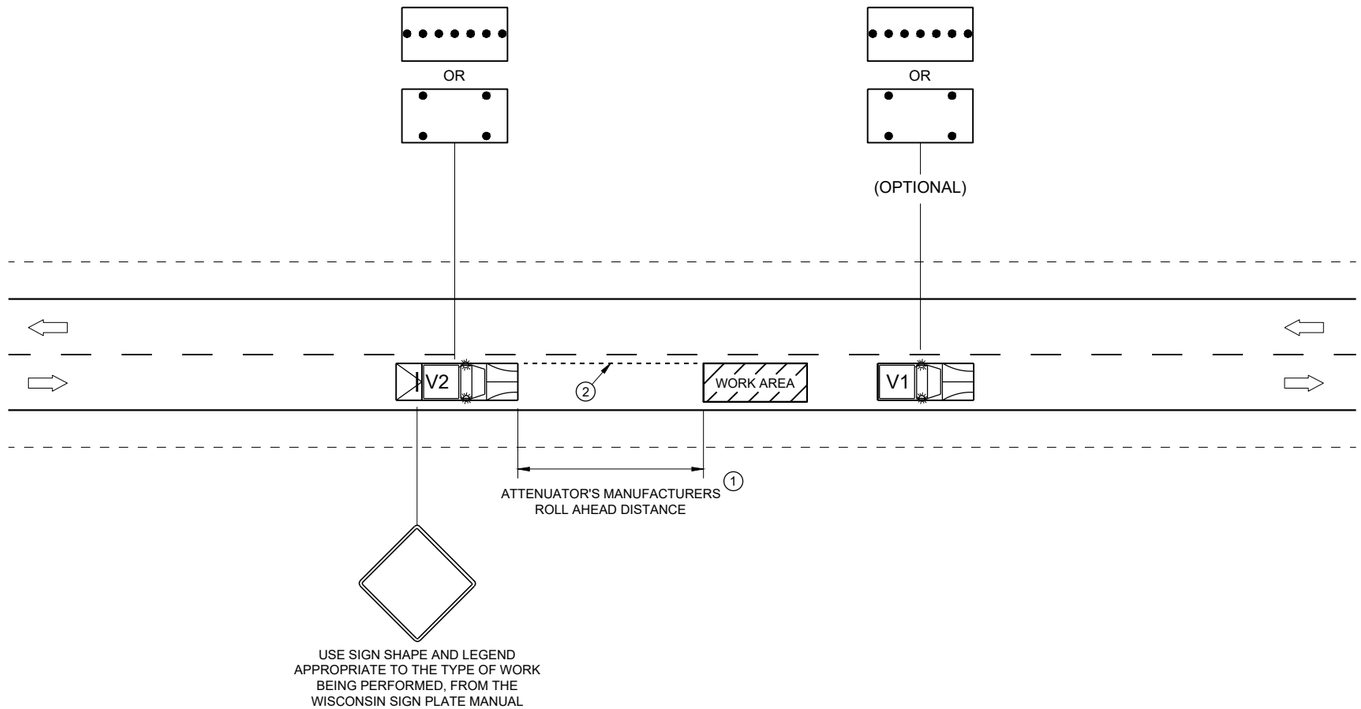
ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

(1) DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

(2) ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



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SDD 15D51 - 01

TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

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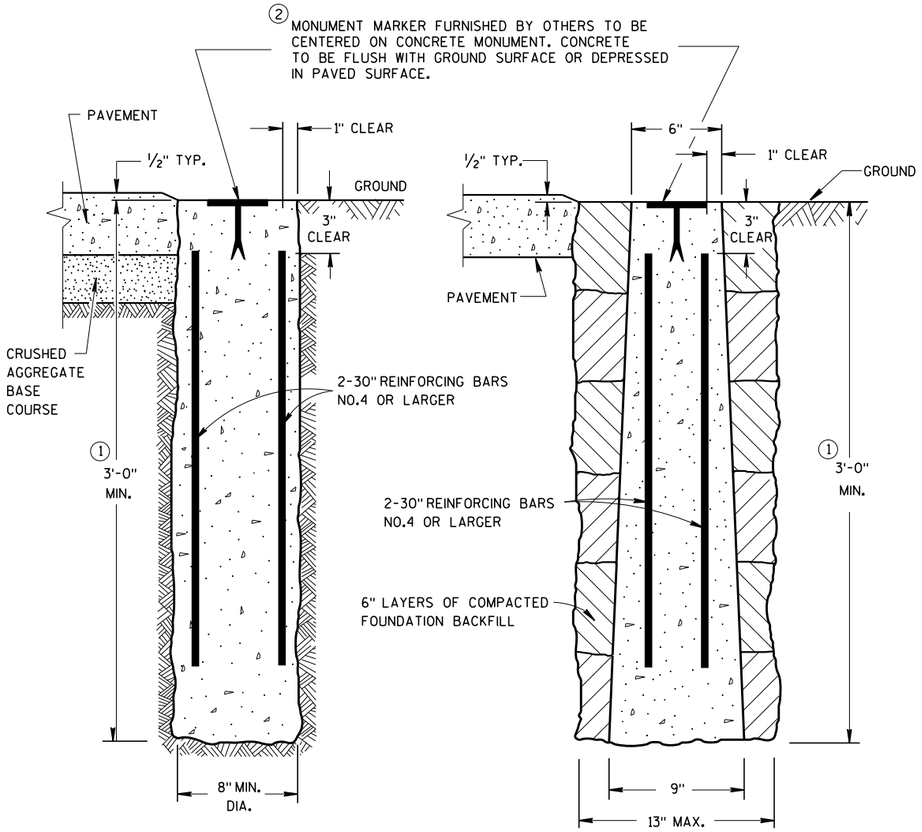
SDD 15D51 - 01

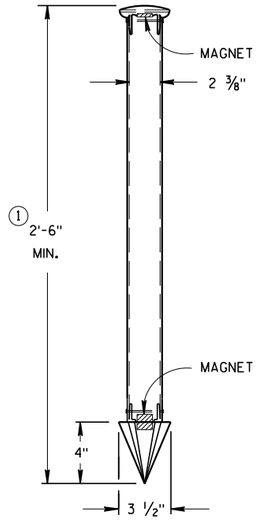


CAST-IN-PLACE

PRECAST

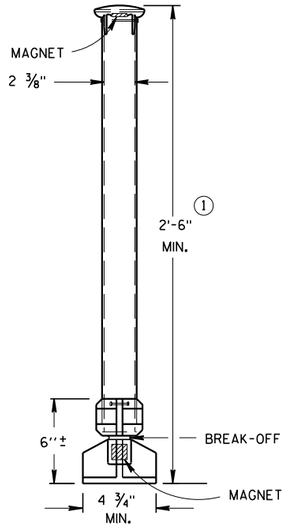
CONCRETE MONUMENTS

TYPE A



TYPE C

DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

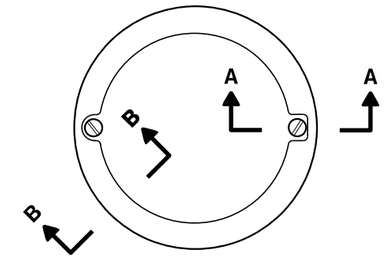
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

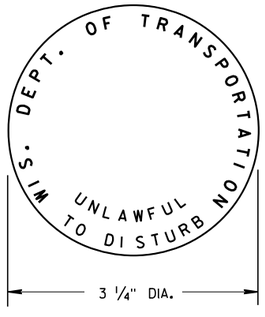
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.

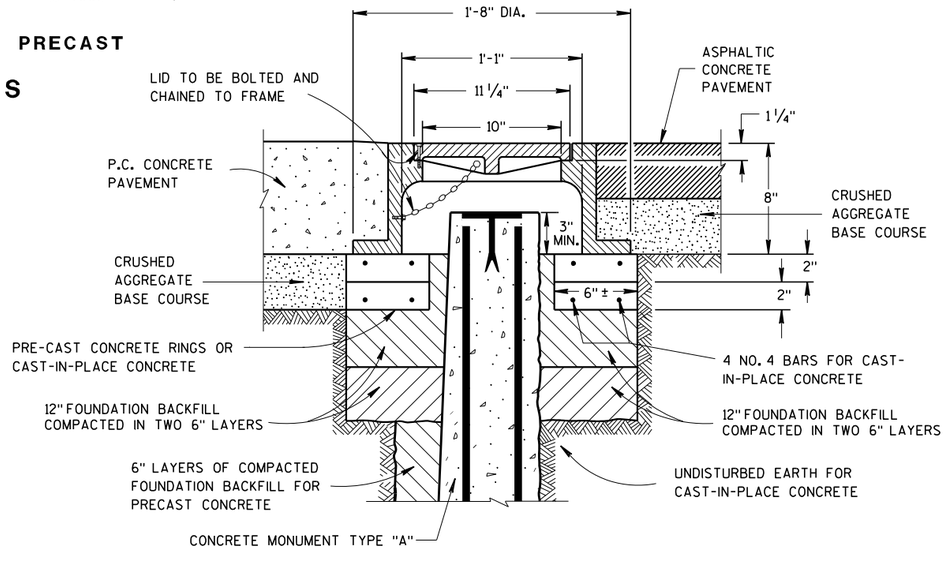


TOP VIEW



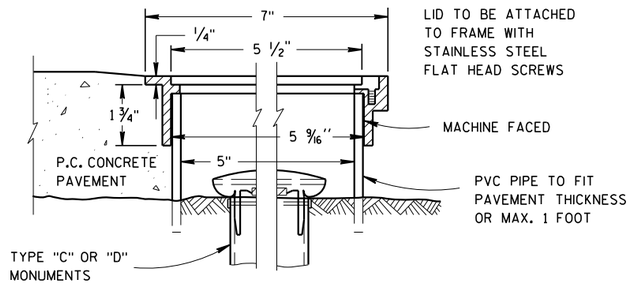
② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C", & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT 95 LBS)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

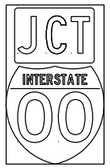
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Raymond A. Kumagai — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

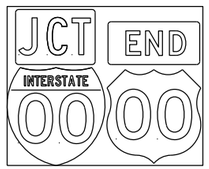
6

S.D.D. 16 A 1-7

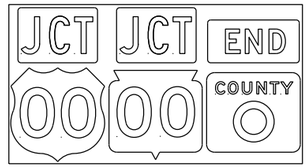
TYPICAL ASSEMBLIES



J1-1



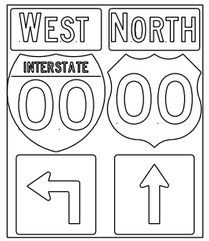
J1-2



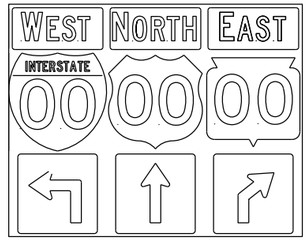
J1-3

JR1-1

J2-1

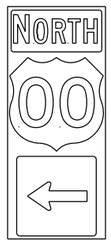


J2-2

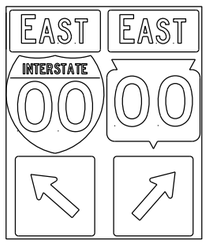


J2-3

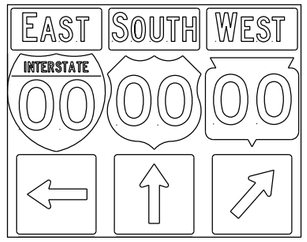
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



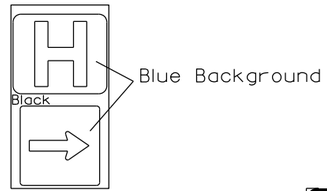
J3-1



J3-2

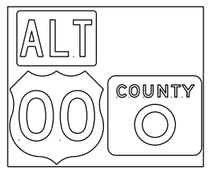


J3-3

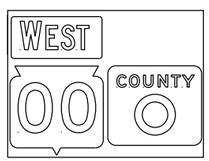


JH-1

J4-1

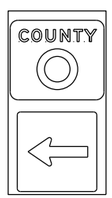


J4-2



J4-2

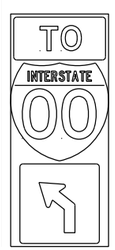
J12-1



J13-1

J32-1

J33-1



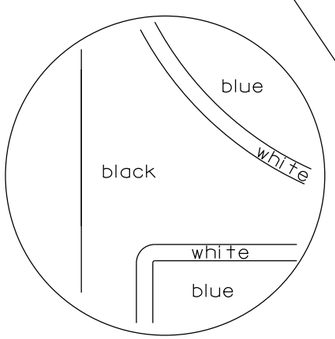
J22-1

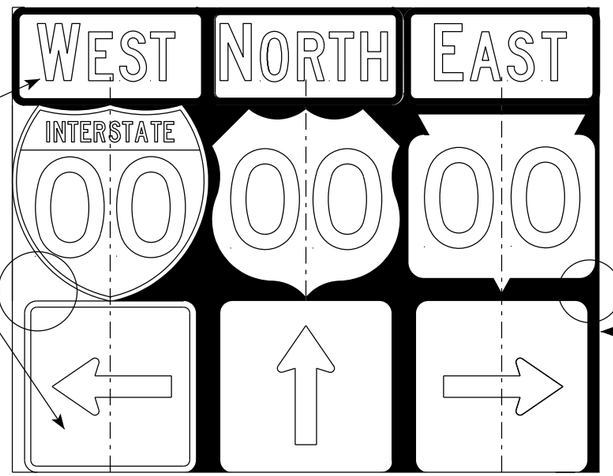
J23-1

JR13-1

JR23-1

JR99-1





NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

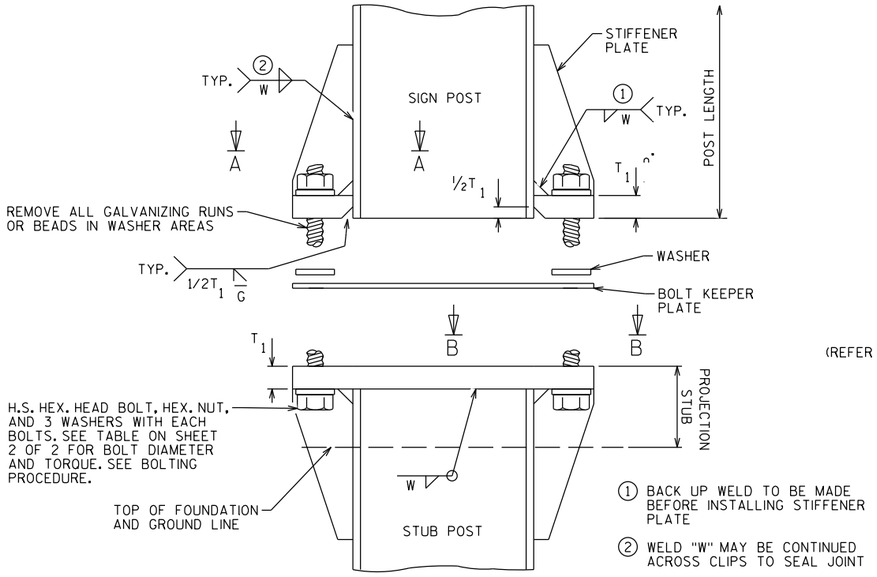
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

PROJECT NO:

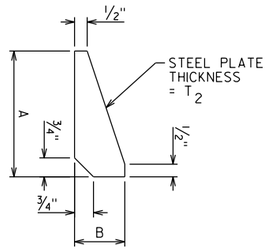
SHEET NO: 809 E



① BACK UP WELD TO BE MADE BEFORE INSTALLING STIFFENER PLATE

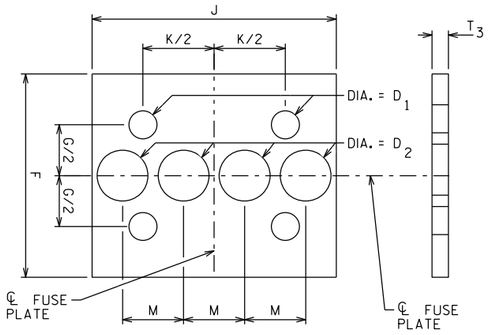
② WELD "W" MAY BE CONTINUED ACROSS CLIPS TO SEAL JOINT

SIGN POST & STUB POST ELEVATION



STIFFENER PLATE DETAIL

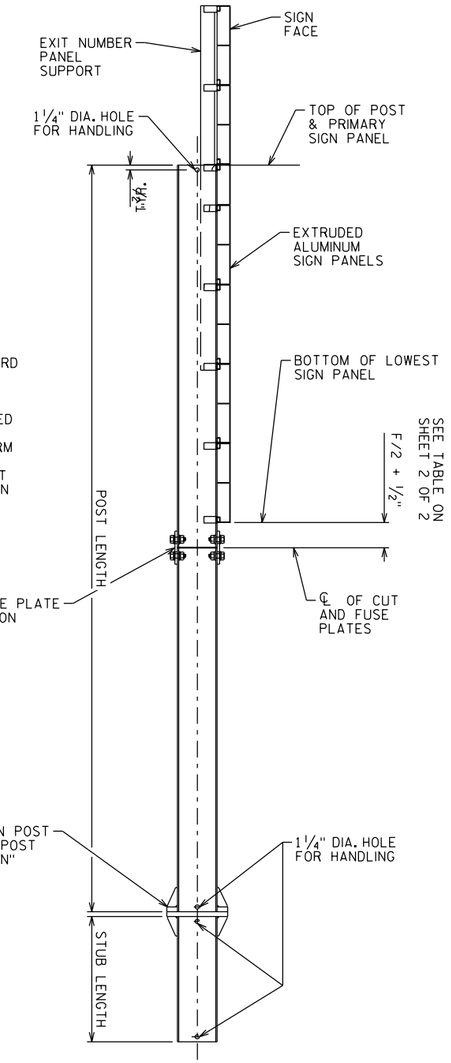
(REFER TO TABLE ON SHEET 2 OF 2 FOR DIMENSIONS)



PERFORATED FUSE PLATE DETAIL

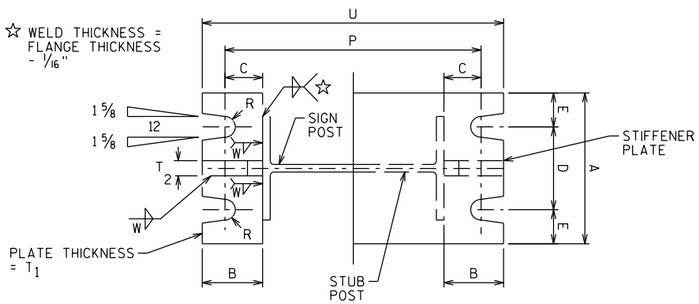
USE H.S. HEX HEAD BOLTS, HEX HEAD NUT AND FLAT WASHER UNDER NUT. INSTALL BOLTS PER THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTION 506.3.12.3.

ALL HOLES SHALL BE DRILLED, SUB-PUNCHED AND REAMED. ALL PLATE CUTS SHALL PREFERABLY BE SAW CUTS. HOWEVER, FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND. METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE PERMITTED. STEEL FUSE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. ASTM A572 GRADE 50 OR ASTM A588 MAY BE SUBSTITUTED FOR A36 AT THE OPTION OF THE FABRICATOR. MILL TEST REPORTS SHALL BE SUBMITTED FOR FUSE PLATES. STEEL USED SHALL HAVE AN ULTIMATE TENSILE STRENGTH NOT TO EXCEED 80 KSI.



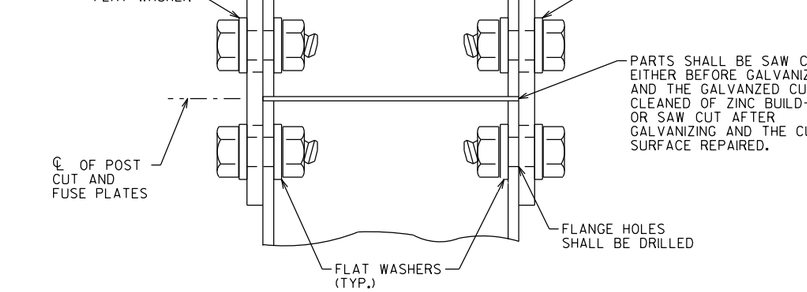
POST DETAIL

☆ WELD THICKNESS = FLANGE THICKNESS - 1/16"

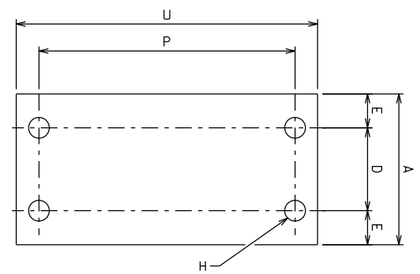


SECTION A-A

SECTION B-B



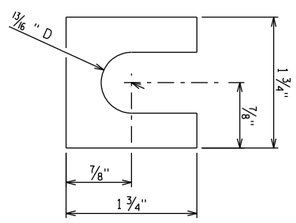
FUSE PLATE CONNECTION DETAIL



H = BOLT DIA. + 1/8"

BOLT KEEPER PLATE DETAIL

30 GA GALVANIZED SHEET STEEL



SHIM DETAIL

FURNISH TWO .012"± THICK AND TWO .032"± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM B36.

BOLTING PROCEDURE FOR BASE CONNECTION

1. ASSEMBLE SIGN POST, BOLT KEEPER PLATE, AND STUB POST WITH BOLTS AND THREE FLAT WASHERS PER BOLT AS SHOWN.
2. SHIM AS REQUIRED TO PLUMB POST.
3. PRIOR TO BOLT TIGHTENING, LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
4. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH A 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS.
5. LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PERSCRIBED TORQUE. (SEE TABLE FOR PERSCRIBED TORQUE). DO NOT OVER-TIGHTEN.
6. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE BTO TYPE I SIGNS

DRAWN BY	PLANS CK'D.

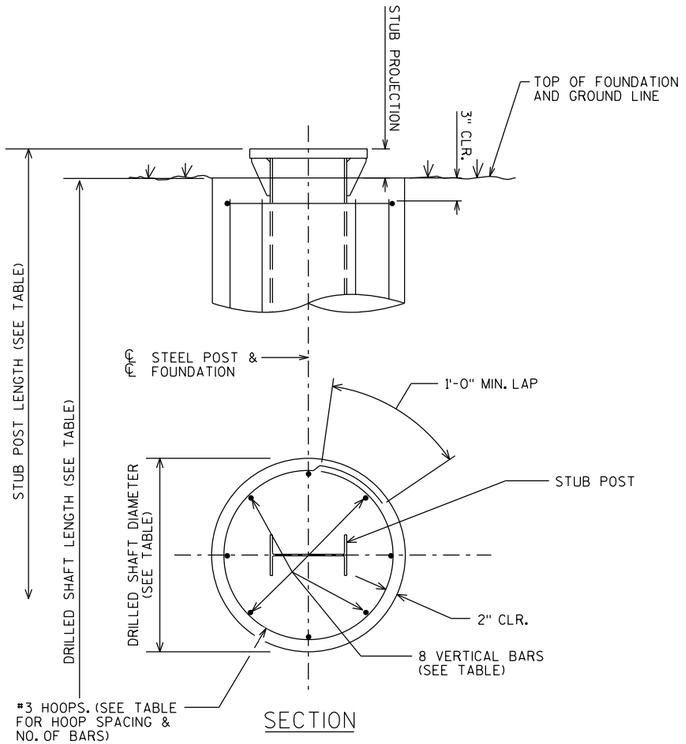
CONNECTION & FOUNDATION DETAILS 1 OF 2

SHEET A3-1.20

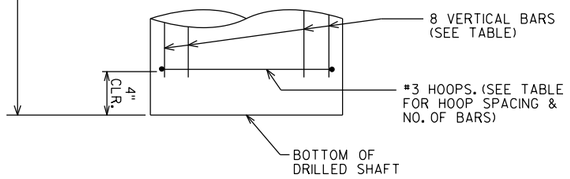
810

7

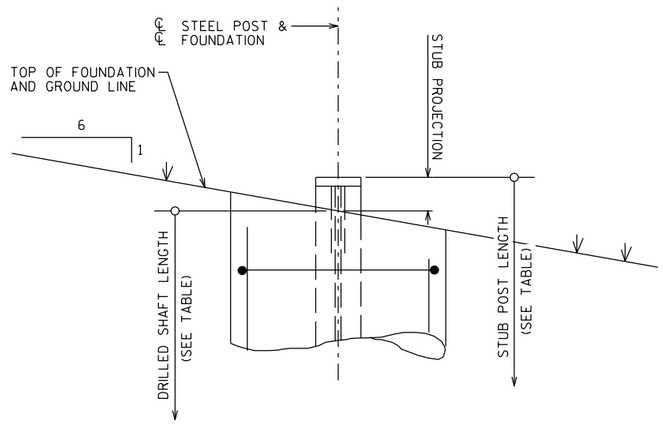
7



SECTION



FOUNDATION DETAIL



SHAFT PLACEMENT

FOUNDATION DATA TABLE

POST SHAPE	STUB LENGTH	STUB PROJECTION	DRILLED SHAFT DIAMETER	DRILLED SHAFT LENGTH	VERTICAL BARS		HOOPS		CONCRETE VOLUME ◆	TOTAL REINF. WEIGHT ◆
					SIZE	LENGTH	MAX SPA.	NO.		
W6X15	2'-6"	3"	24"	6'-6"	#5	5'-11"	10"	9	0.8 CY	71 LB
W8X18	2'-6"	3"	24"	7'-6"	#6	6'-11"	12"	8	0.9 CY	102 LB
W8X21	3'-0"	2½"	24"	8'-0"	#6	7'-5"	12"	9	1.0 CY	110 LB
W10X22	3'-0"	2½"	24"	8'-6"	#7	7'-11"	12"	9	1.0 CY	151 LB
W12X26	3'-0"	2½"	24"	10'-0"	#7	9'-5"	12"	11	1.2 CY	180 LB

◆ QUANTITIES SHOWN ARE FOR ONE DRILLED SHAFT

BASE CONNECTION & FUSE PLATE DATA TABLE

POST SHAPE	WEIGHT PER FOOT	BASE CONNECTION DATA: BOLT SIZE & TORQUE	A	B	C	D	E	T1	T2	W	R	BOLT KEEPER PLATE DATA: P	U	PERFORATED FUSE PLATE DATA: F	G	J	K	M	D1	D2	T3	BOLT DIA.	WGT. EA. LBS	BOLT LENGTH	V ◪
W6X15	15 LB	5/8" DIA. X 4" 36 TO 38 FT-LB	5"	2"	1¼"	2¾"	1⅛"	1¼"	½"	¼"	11/32"	8½"	10"	5"	2½"	6"	3½"	1½"	11/16"	1¼"	⅜"	⅝"	2.4	2	73.0 LB
W8X18	18 LB											10⅝"	12⅛"	5"	2½"	5¼"	2¾"	1¼"	11/16"	1 1/16"	⅜"	⅝"	2.0	2	83.0 LB
W8X21	21 LB	¾" DIA. X 4¾" 62 TO 63 FT-LB	6"	2¼"	1⅜"	3½"	1¼"	1½"	¾"	5/16"	13/32"	11"	12¾"	5½"	2½"	5¼"	2¾"	1¼"	13/16"	1"	½"	¾"	3.1	2¼"	124.0 LB
W10X22	22 LB											12⅞"	14⅝"	6"	3"	5¾"	2¾"	1⅜"	13/16"	1⅛"	½"	¾"	3.9	2¼"	134.0 LB
W12X26	26 LB											15"	16¾"	6"	3"	6½"	3½"	1⅝"	13/16"	1 5/16"	½"	¾"	4.5	2¼"	152.0 LB

◪ TOTAL STRUCTURAL CARBON STEEL WEIGHT FOR ONE POST = V + (POST LENGTH X POST WEIGHT PER FOOT)

"V" INCLUDES STUB POST, BASE PLATES, STIFFENER PLATES, PERFORATED FUSE PLATES, BOLTS, NUTS, AND WASHERS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

MATERIALS SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 506, UNLESS NOTED OTHERWISE.

FABRICATION SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 506.

ALL POST, POST STUBS & ATTACHMENTS SHALL BE ASTM A709 GRADE 50, GALVANIZED IN ACCORDANCE WITH ASTM A123.

THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST, FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.

H.S. BOLTS, WASHERS, & NUTS SHALL BE A325 GALVANIZED.

FOUNDATION MATERIAL PROPERTIES

CONCRETE MASONRY	F'C = 3,500 P.S.I.
BAR STEEL REINFORCEMENT (UNCOATED), GRADE 60	FY = 60,000 P.S.I.

DESIGN DATA

DESIGN CONFORMS TO AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS 1ST EDITION 2015 (WITH 2017 & 2018 INTERIM REVISIONS).

DEAD LOADS (DL):

- STEEL POST SELF WEIGHT
- SIGN PANEL WEIGHT = 3 PSF

WIND LOADS (WL):

WIND LOADS WERE APPLIED TO THE PROJECTED AREAS OF THE SIGN PANELS AND THE STEEL SIGN POSTS.

- BASIC WIND SPEED = 76 MPH
- MEAN RECURRANCE INTERVAL (MRI) = 10 YEARS
- HEIGHT & EXPOSURE FACTOR = 1.00
- DIRECTIONALITY FACTOR = 0.85
- GUST EFFECT FACTOR = 1.14

WIND LOAD CASES:

- WL CASE 1: 1.0 X NORMAL WIND
- WL CASE 2: 1.0 X TRANSVERSE WIND
- WL CASE 3: 0.75 X NORMAL WIND + 0.75 X TRANSVERSE WIND

LOAD COMBINATIONS:

LOAD COMBINATION	TYPE	DL FACTOR	WL FACTOR
STRENGTH I	GRAVITY	1.25	-
EXTREME I	WIND	1.10	1.0
		0.9	1.0
SERVICE I	DEFLECTION	1.0	1.0

FOUNDATION DESIGN DATA

THE FOUNDATION DESIGN ASSUMED COHESIONLESS SOILS (LOOSE SAND) ABOVE THE WATER TABLE WITH THE FOLLOWING PROPERTIES:

- SOIL UNIT WEIGHT = 115 PCF
- ANGLE OF INTERNAL FRICTION = 24 DEGREES
- SOIL MODULUS PARAMETER = 25 LB/IN3

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE BTO TYPE I SIGNS

DRAWN BY | PLANS CK'D.

CONNECTION & FOUNDATION DETAILS 2 OF 2

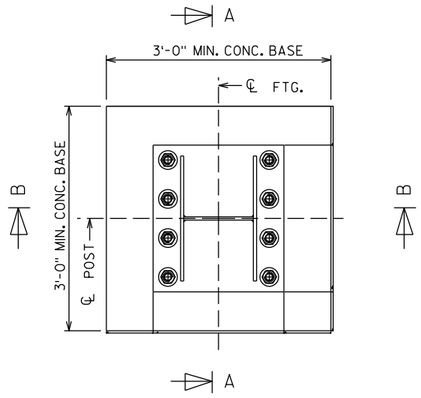
SHEET A3-1.20

811

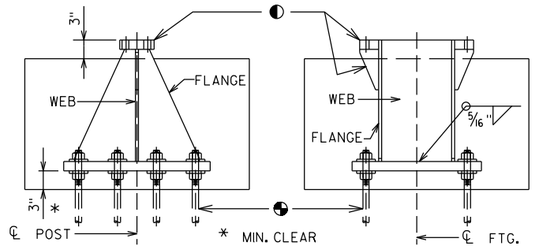
7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A31.DGN PLOT DATE : 3-MAR-2020 PLOT BY : dotc4c

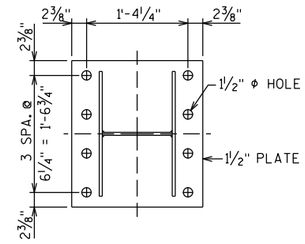
STUB AND ADHESIVE ANCHOR DETAILS



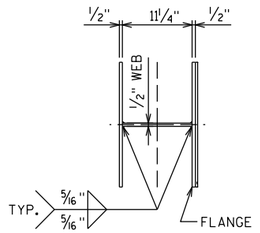
STUB SECTION



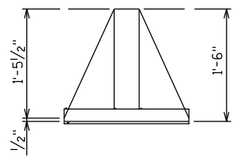
SECTION A-A SECTION B-B



BASE PLATE



STUB



FLANGE

◐ SEE BASE CONNECTION DETAILS ON "CONNECTIONS & FOUNDATION DETAILS" SHEETS.

◔ ADHESIVE ANCHORS 1¼-INCHES. ALLOWABLE PULL OUT CAPACITY = 15 KIPS. EMBED 1'-3" INTO ROCK.

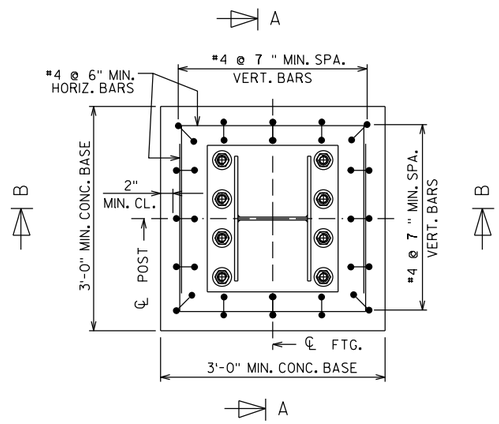
GENERAL NOTES:

QUANTITIES PER BASE:
REINFORCING STEEL = 62 LB
CONCRETE = 0.6 CY
STRUCTURAL STEEL = 335 LB

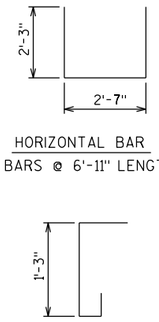
ALL MATERIALS, EXCEPT FOR ANCHOR ROD, NUTS, AND WASHERS, SHALL BE ASTM A709 GRADE 50. ALL MATERIALS TO BE GALVANIZED AFTER FABRICATION.

IF ROCK IS ENCOUNTERED PRIOR TO REACHING THE MINIMUM DRILLED SHAFT EMBEDMENT DEPTH DEFINED ON THE FOUNDATION DATA TABLE OF THE "CONNECTIONS & FOUNDATION DETAILS 2 OF 2" SHEET, THE CONTRACTOR SHALL INSTALL A TEST ADHESIVE ANCHOR AND DETERMINE THE PULL-OUT CAPACITY. IF THE FIELD TEST RESULTS IN A PULL-OUT CAPACITY GREATER THAN OR EQUAL TO 15 KIPS, THE CONTRACTOR MAY INSTALL THE ALTERNATE CONCRETE BASE AND BREAK-WAY STUB PER THE DETAILS ON THIS SHEET.

CONCRETE BASE DETAILS

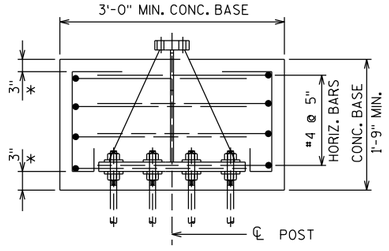


CONCRETE BASE PLAN

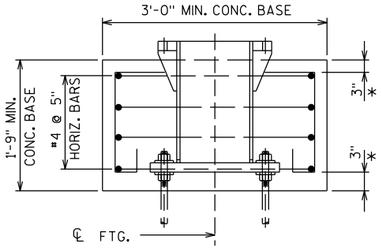


HORIZONTAL BAR
8 BARS @ 6'-11" LENGTH

VERTICAL BARS
16 BARS @ 2'-4" LENGTH
MAY BE PLACED IN SKEW
FOR CLEARANCE NEED



SECTION A-A



SECTION B-B

* MIN. CLEAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

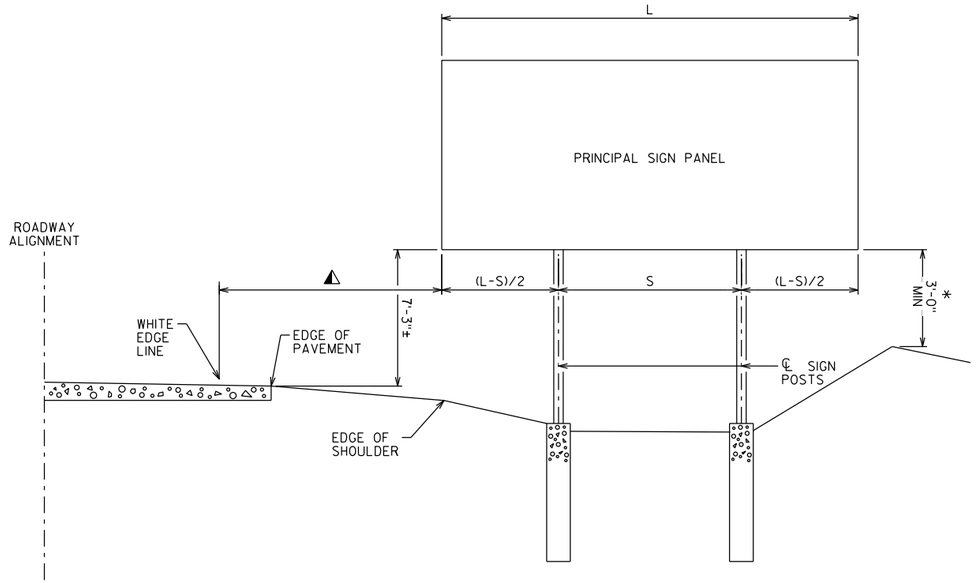
STRUCTURE BTO TYPE I SIGNS

DRAWN BY	PLANS CK'D.

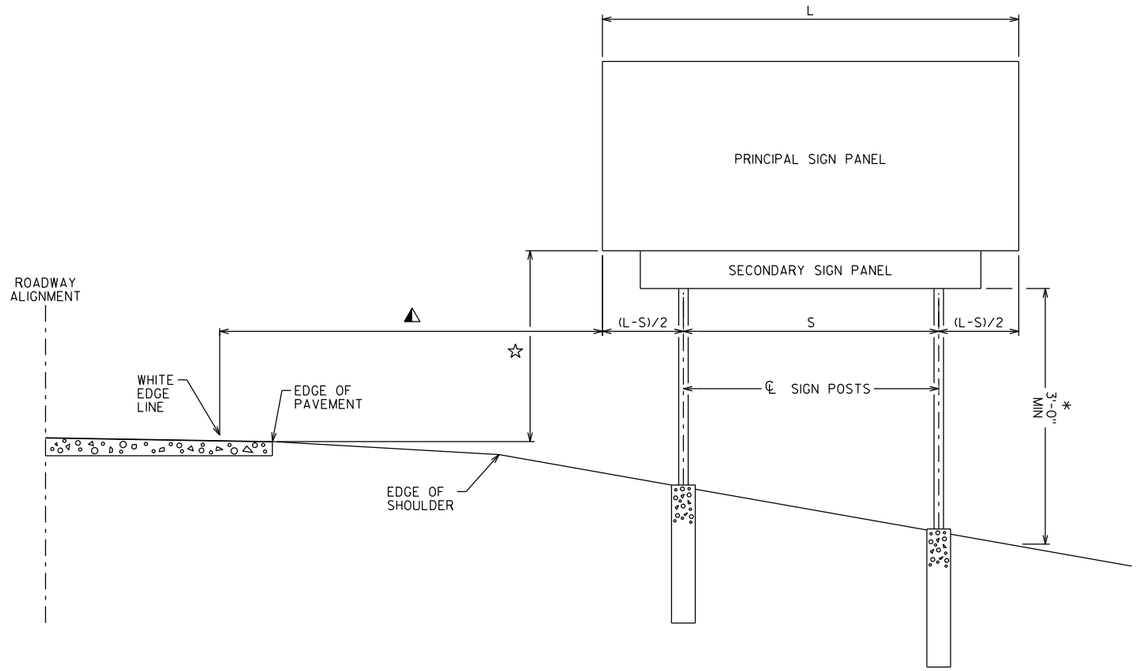
ALTERNATE BREAK-AWAY BASE ON ROCK

SHEET A3-1M.2

812



INSTALLATION WITHOUT SECONDARY SIGN



INSTALLATION WITH SECONDARY SIGN

TYPE 1 SIGN INSTALLATION NOTES:

FOR A 2-POST INSTALLATION, "S" EQUALS 3L/5, BUT SHALL NOT BE LESS THAN 6'-0".

FOR A 3-POST INSTALLATION, "S" EQUALS 5L/7, BUT SHALL NOT BE LESS THAN 12'-0". THE SPACING BETWEEN ANY TWO POSTS SHALL NOT BE LESS THAN 6'-0".

⚠ UNLESS NOTED IN THE PLANS, THE SIGN OFFSET DISTANCE SHALL BE A MINIMUM OF 17'-6" FROM THE WHITE EDGE LINE, DESIRABLE 30'-0".

THE ± TOLERANCE SHOWN ON THIS SHEETS IS 3".

THE VERTICAL SIGN HEIGHT CLEARANCES SHOWN ON THIS SHEET ARE MEASURED FROM THE BOTTOM OF THE SIGN PANEL TO THE NEAR EDGE OF PAVEMENT.

☆ THE VERTICAL CLEARANCE SHALL BE 8'-3"± WHEN THE SECONDARY SIGN HEIGHT IS 3'-0" OR LESS. FOR SECONDARY SIGN HEIGHTS LARGER THAN 3'-0", THE VERTICAL CLEARANCE TO THE BOTTOM OF THE SECONDARY SIGN PANEL SHALL BE 5'-3"±.

* THE VERTICAL SIGN GROUND CLEARANCE ON RIGHT END OF SIGN SHALL BE A MINIMUM OF 3'-0"±.

POST LENGTHS SHOWN IN THE MISCELLANEOUS QUANTITIES ARE ESTIMATED LENGTHS. THE CONTRACTOR SHALL VERIFY POST LENGTHS AT THE TIME OF FINAL GRADING.

REFER TO THE TRAFFIC ENGINEERING OPERATIONS AND SAFETY MANUAL FOR FURTHER GUIDANCE ON MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE BTO TYPE I SIGNS

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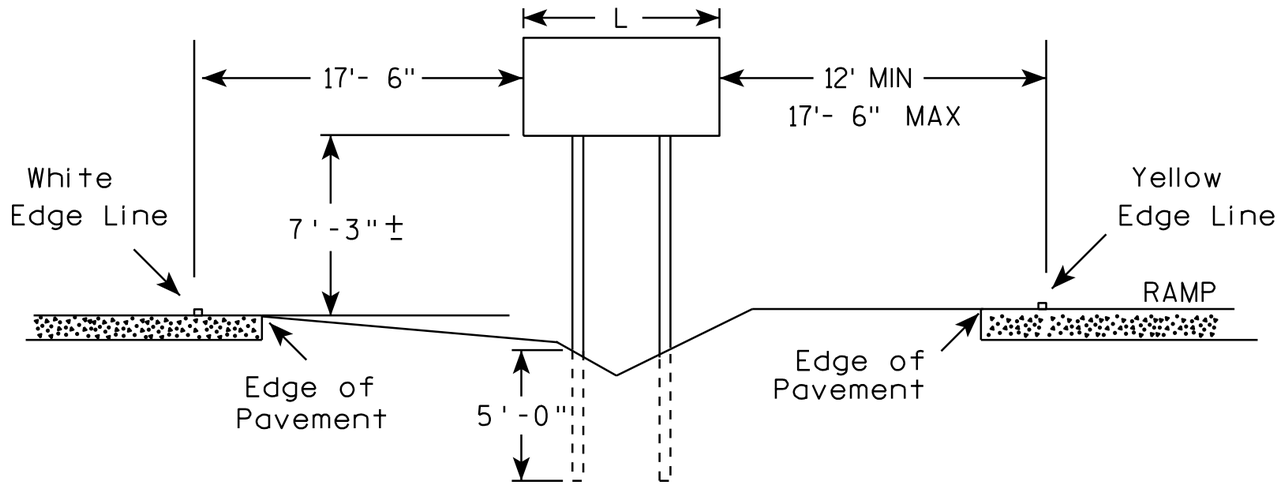
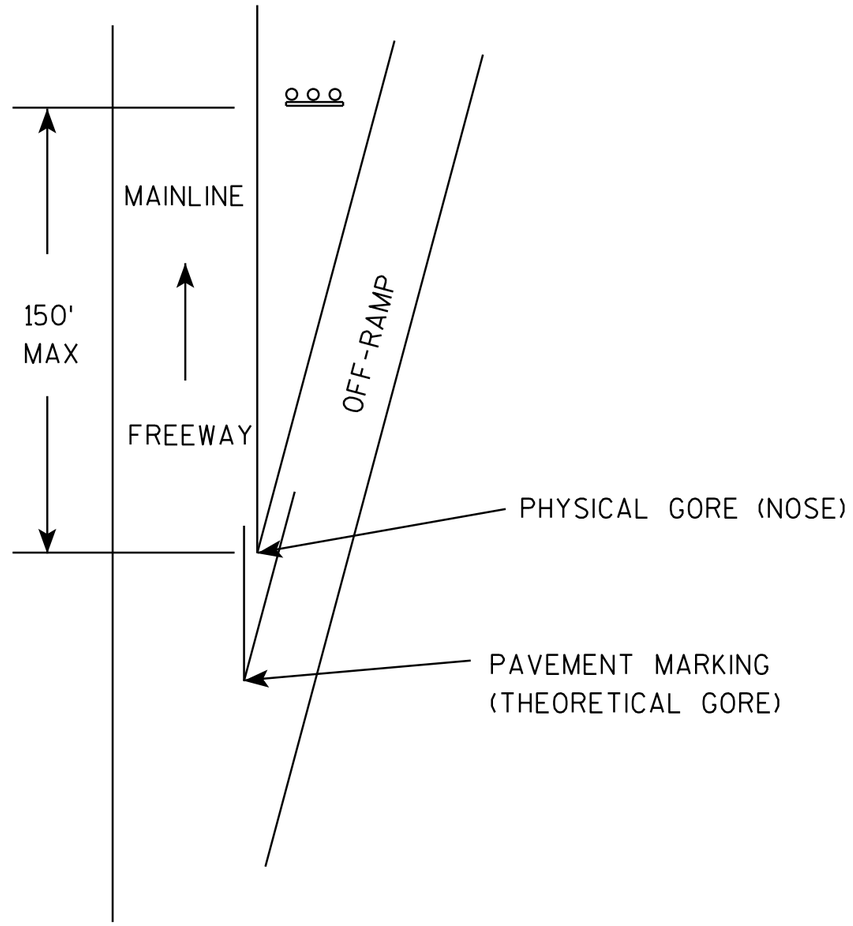
TYPICAL TYPE I SIGN INSTALLATION

SHEET A4-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 813 | E





GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
6. The (∓) tolerance for the mounting height is 3 inches.

7

7

TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

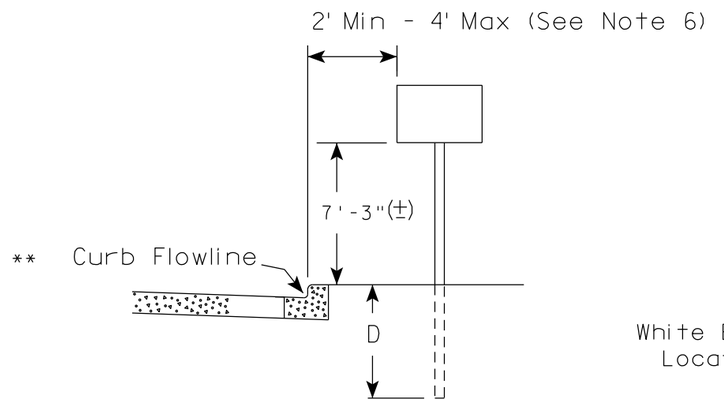
DATE 2/06/14 PLA 814 A4-2.3

PROJECT NO: | SHEET NO: E

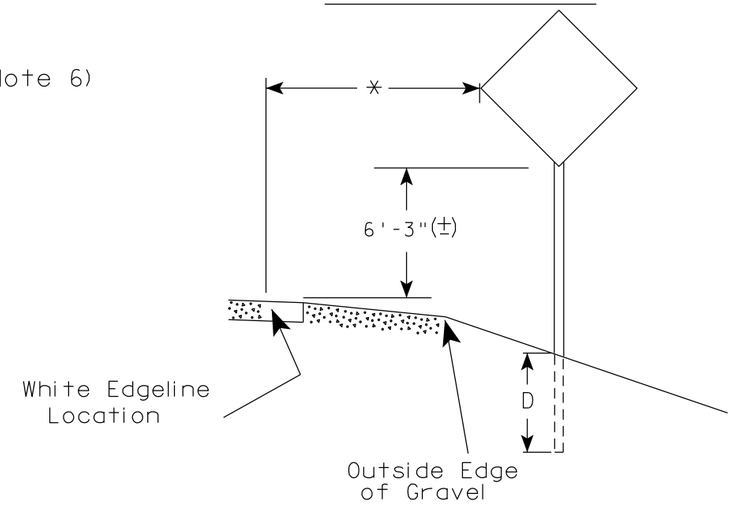
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A42.DGN PLOT DATE : 06-FEB-2014 12:36 PLOT BY : mscsja

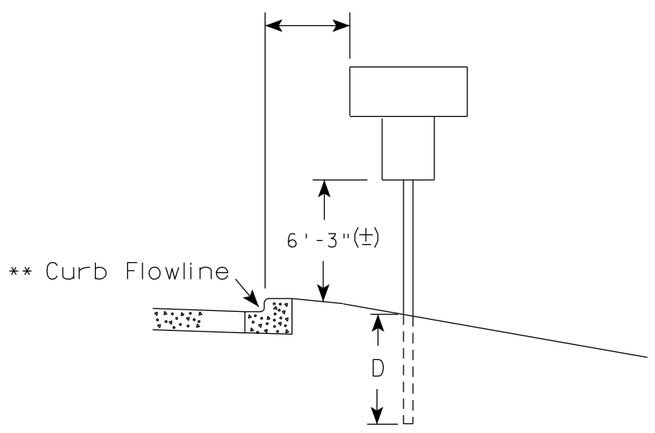
WISDOT/CADDS SHEET 42

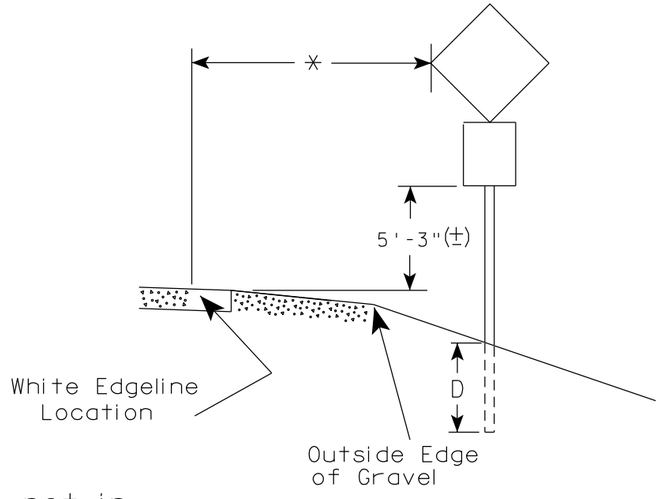
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

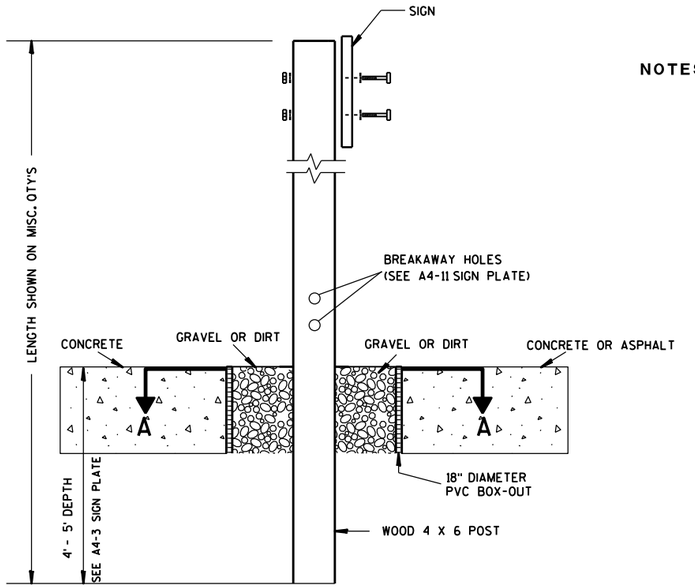
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

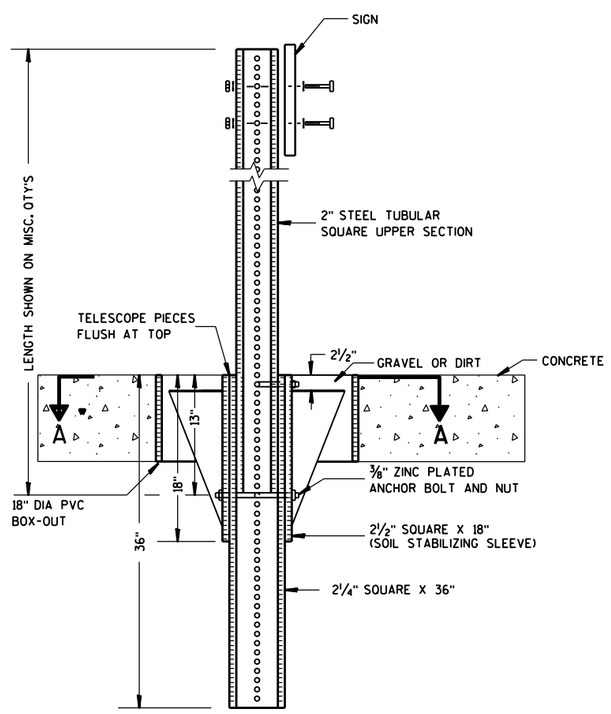
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 815	E



ELEVATION VIEW

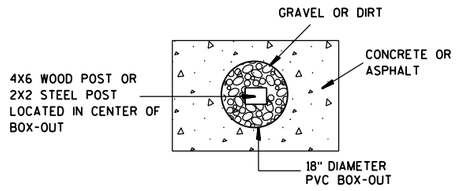
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

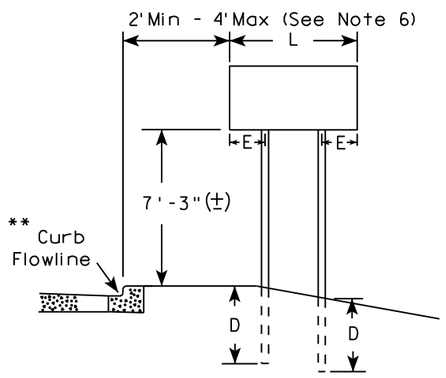
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

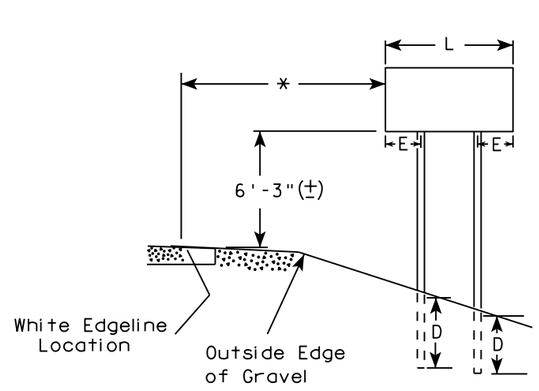
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

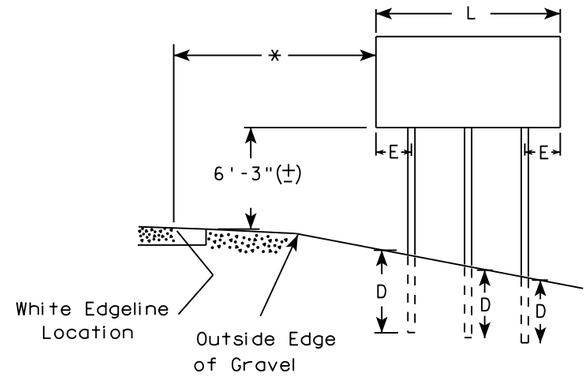
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

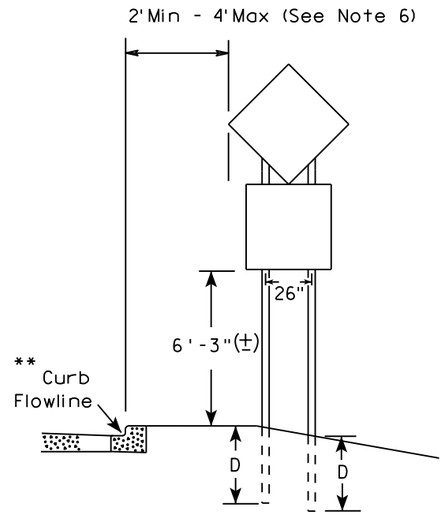
URBAN AREA



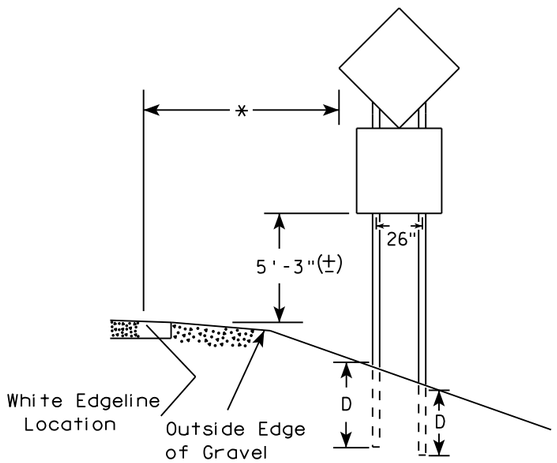
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
*** Greater than 48" Less than 60"	12"
60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

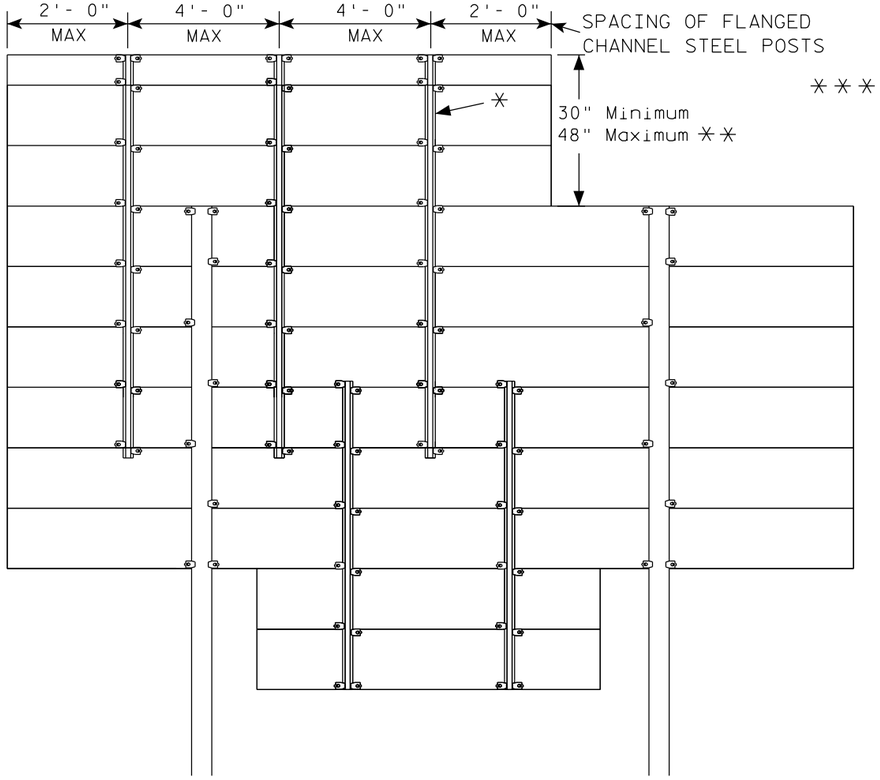
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 817	E

GROUND MOUNTED SIGN



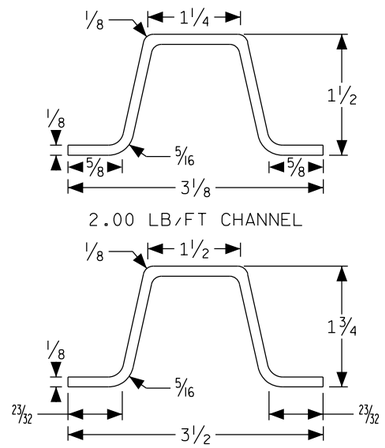
✳=2.00 lb/ft AND 4.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

✳✳=FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

✳✳✳ THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 15 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 15 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAILS

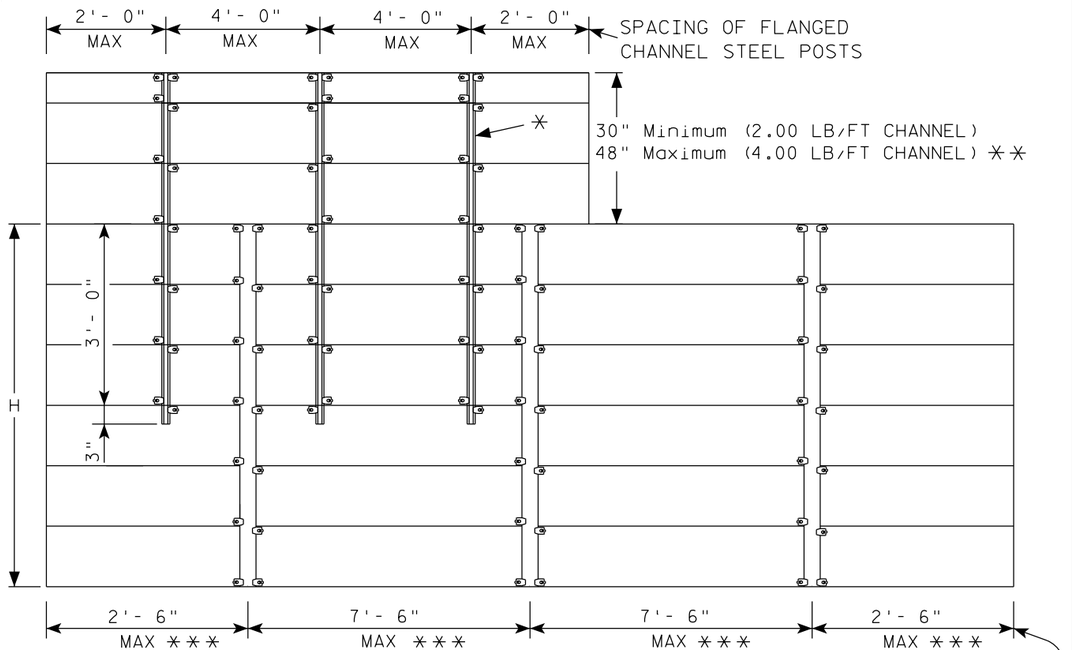
NOT TO SCALE



2.00 LB/FT CHANNEL

4.00 LB/FT CHANNEL

SIGN BRIDGE MOUNTED SIGN



SPACING OF ALUMINUM SIGN SUPPORTS 5" X 3.5" X 3.7 LBS./ft.

GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

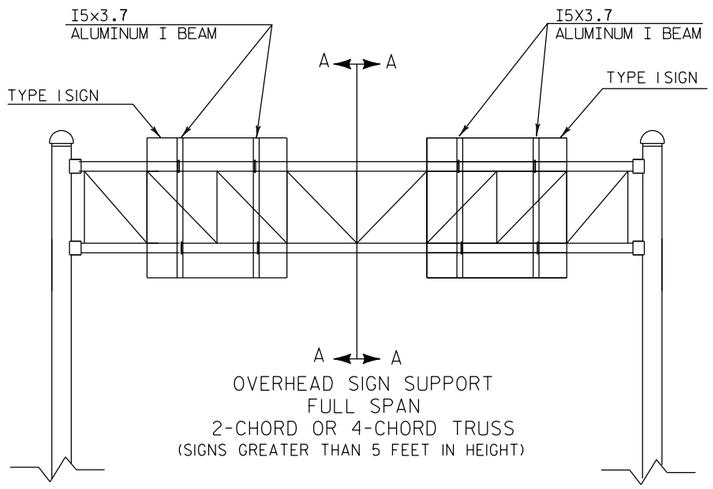
   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

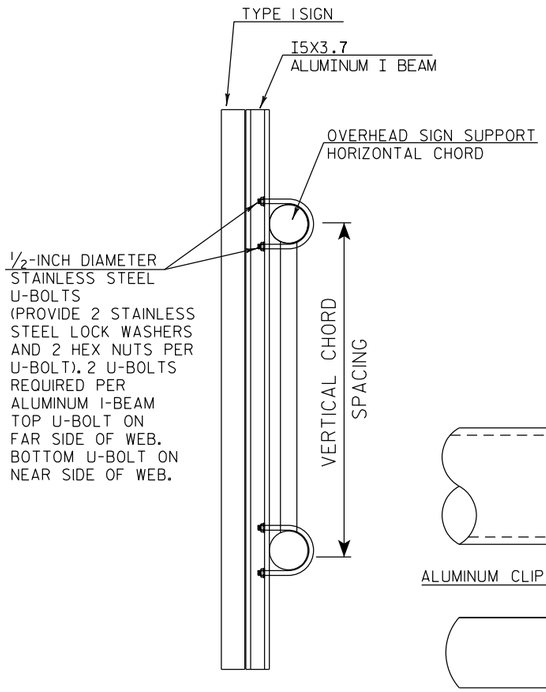
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

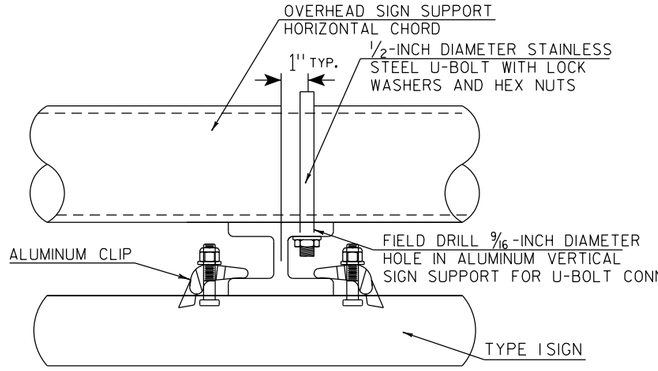
DATE 1/07/20 PLATE NO. A4-6.12



OVERHEAD SIGN SUPPORT
FULL SPAN
2-CHORD OR 4-CHORD TRUSS
(SIGNS GREATER THAN 5 FEET IN HEIGHT)



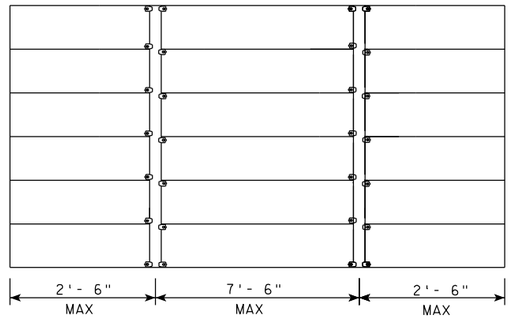
CUT SECTION A-A



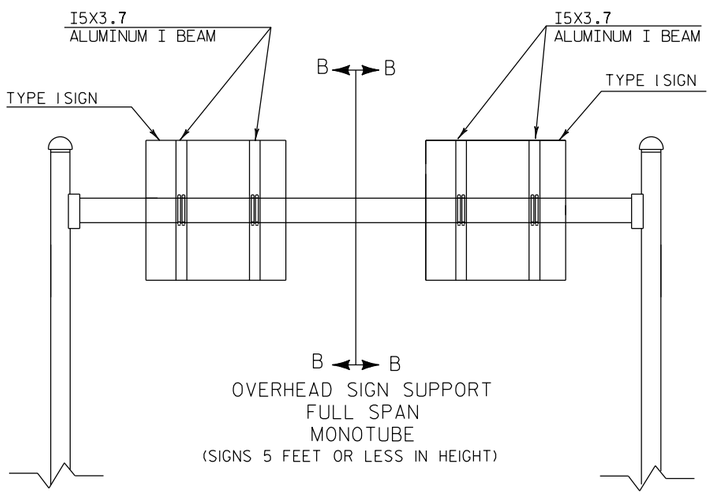
TYPICAL SIGN CONNECTION FOR
2-CHORD OR 4-CHORD TRUSS
PLAN VIEW

GENERAL NOTES

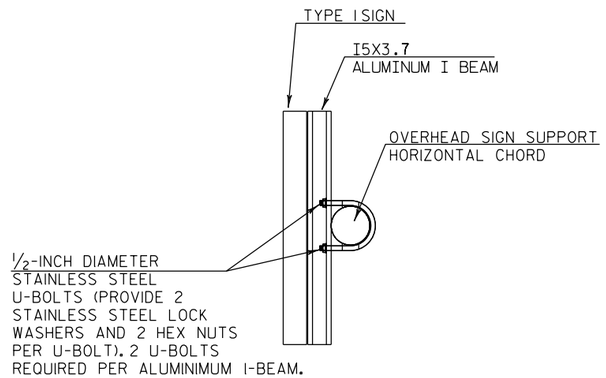
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.
9. SLOTTED HOLES IN I-BEAMS ARE NOT ALLOWED



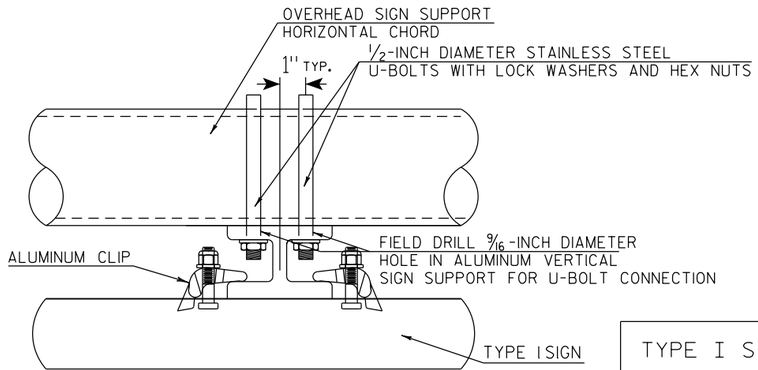
SPACING OF I5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
MONOTUBE
(SIGNS 5 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
MONOTUBE
PLAN VIEW

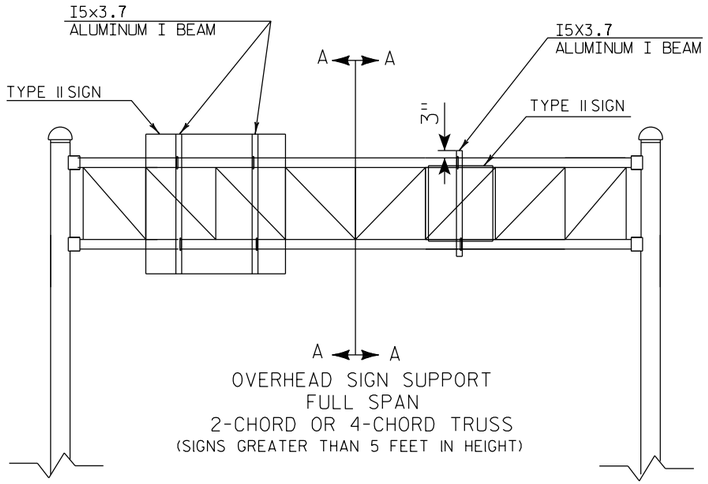
TYPE I SIGN CONNECTION
TO OVERHEAD SIGN SUPPORT

WISCONSIN DEPT OF TRANSPORTATION

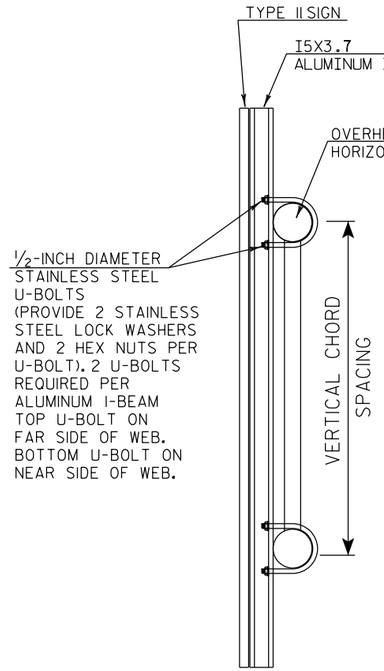
APPROVED Matthew R Rauch
State Traffic Engineer

DATE 1/07/20 PLATE NO. A4-7A.1

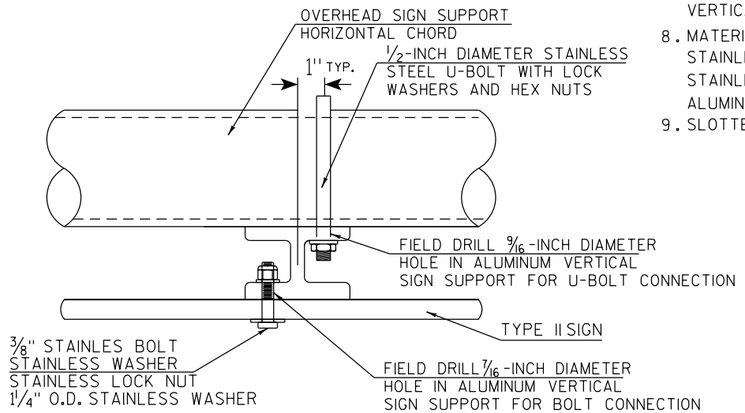
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 819	E



OVERHEAD SIGN SUPPORT
FULL SPAN
2-CHORD OR 4-CHORD TRUSS
(SIGNS GREATER THAN 5 FEET IN HEIGHT)



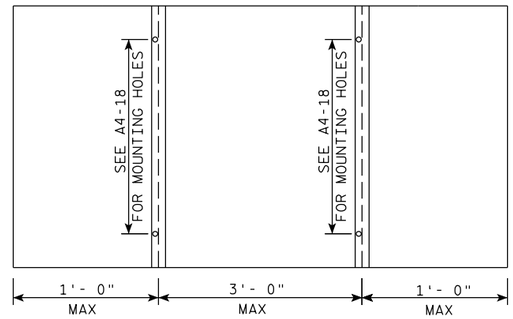
CUT SECTION A-A



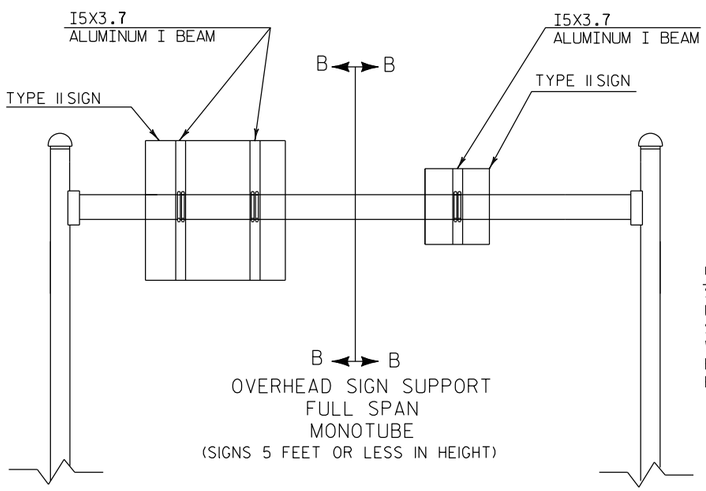
TYPICAL SIGN CONNECTION FOR
2-CHORD OR 4-CHORD TRUSS
PLAN VIEW

GENERAL NOTES

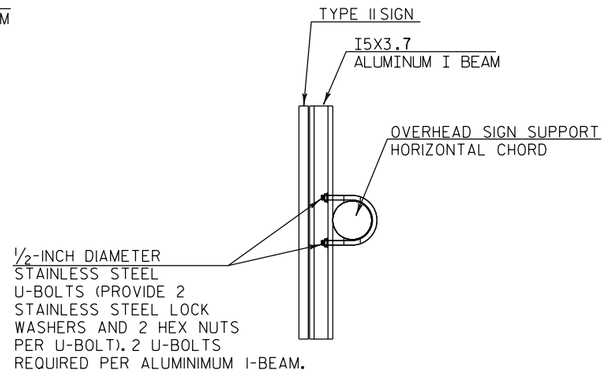
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE STAINLESS BOLTS AT BOLT HOLES IN SIGN PANEL PER SIGN PLATE A4-18.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS, BOLTS, AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.
9. SLOTTED HOLES IN I-BEAMS ARE NOT ALLOWED



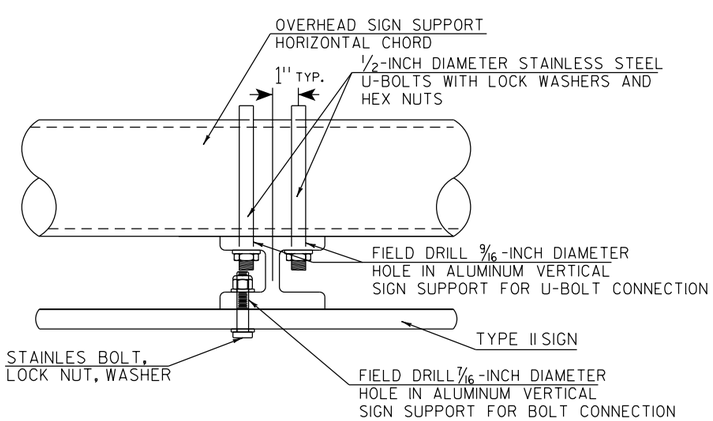
SPACING OF I5X3.7 ALUMINUM
MULTIPLE VERTICAL SIGN SUPPORTS



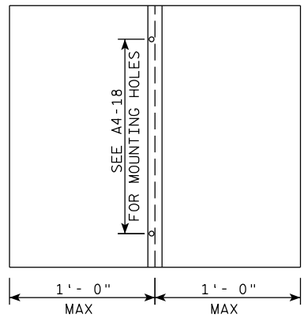
OVERHEAD SIGN SUPPORT
FULL SPAN
MONOTUBE
(SIGNS 5 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
MONOTUBE
PLAN VIEW



SPACING OF I5X3.7 ALUMINUM
SINGLE VERTICAL SIGN SUPPORT

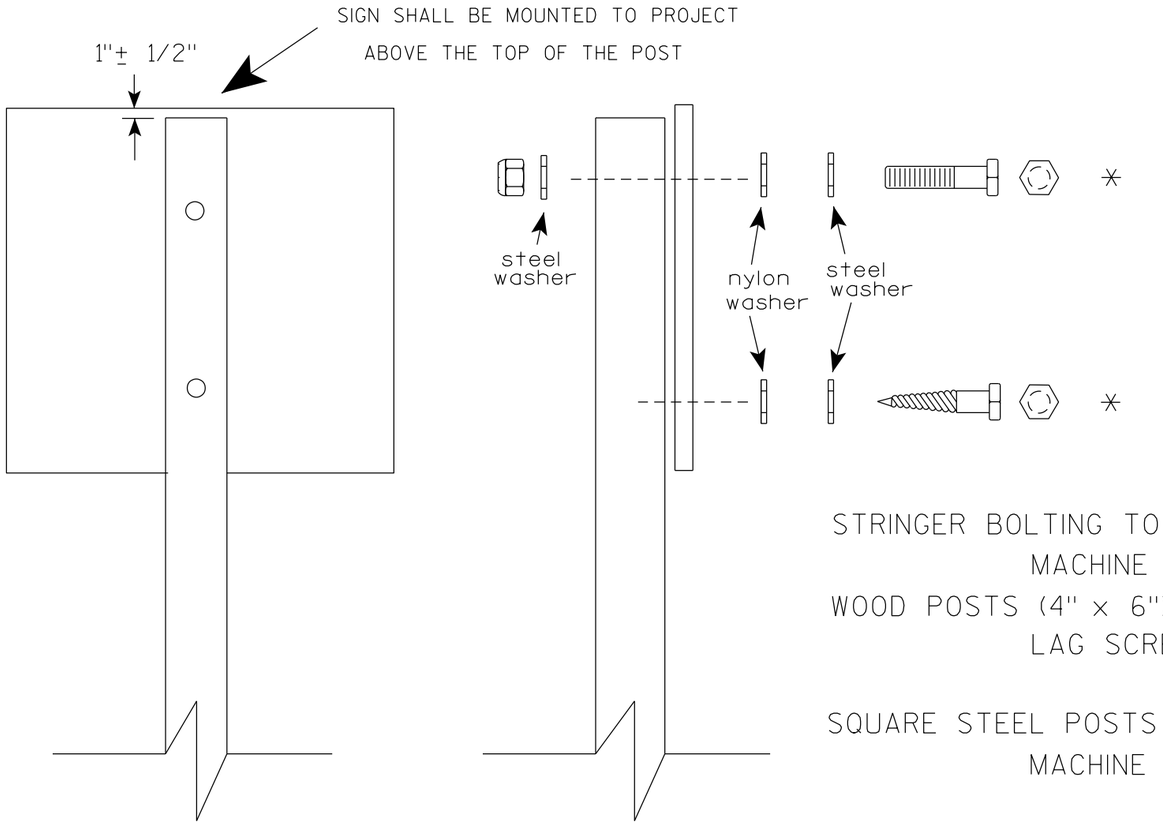
TYPE II SIGN CONNECTION
TO OVERHEAD SIGN SUPPORT

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/07/20 PLATE NO. A4-7B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 820	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

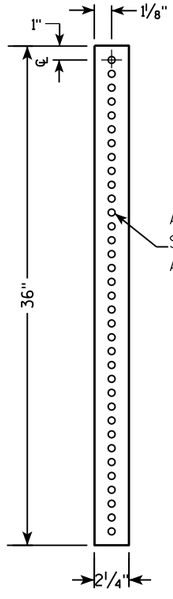
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

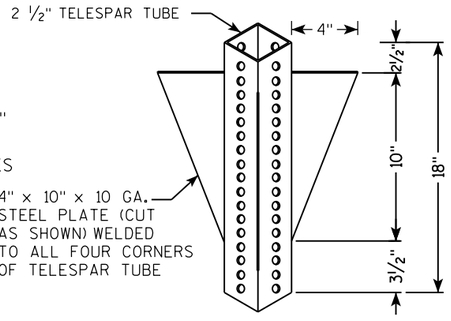
SHEET NO: 821 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

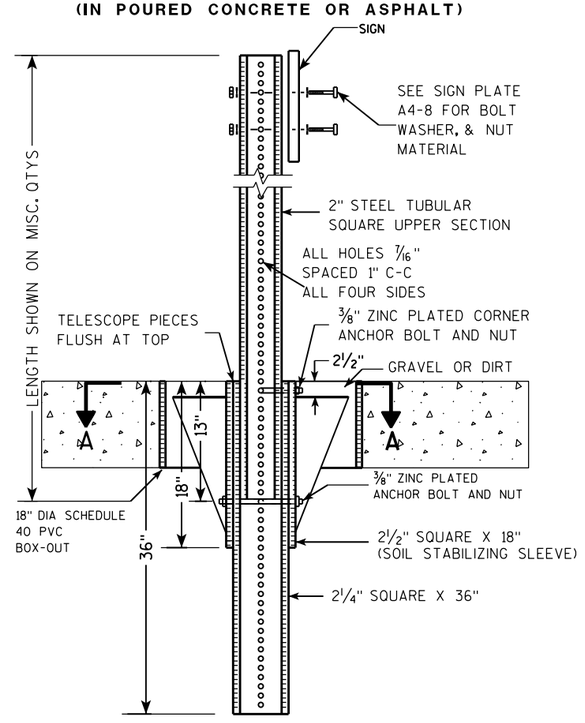
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



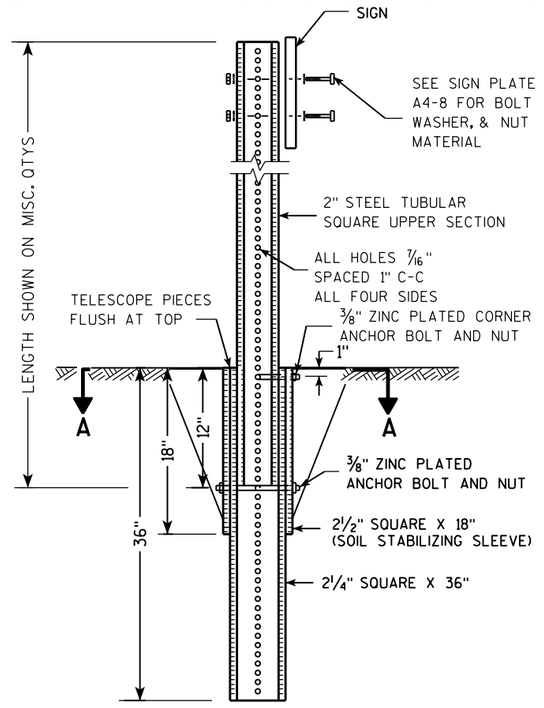
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

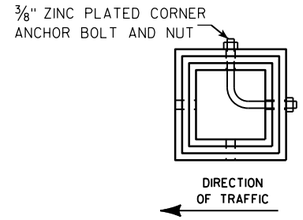


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

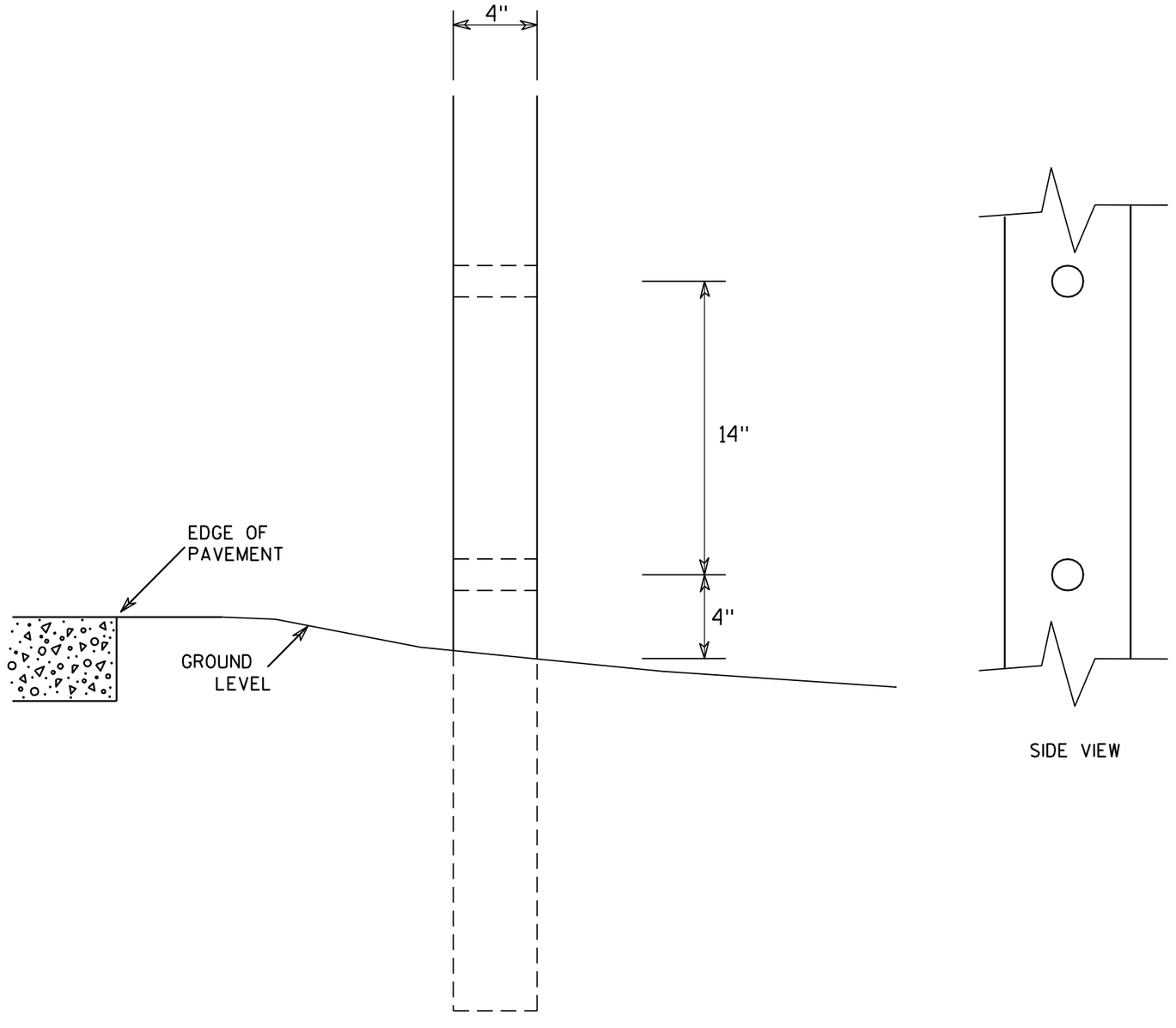
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 822 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

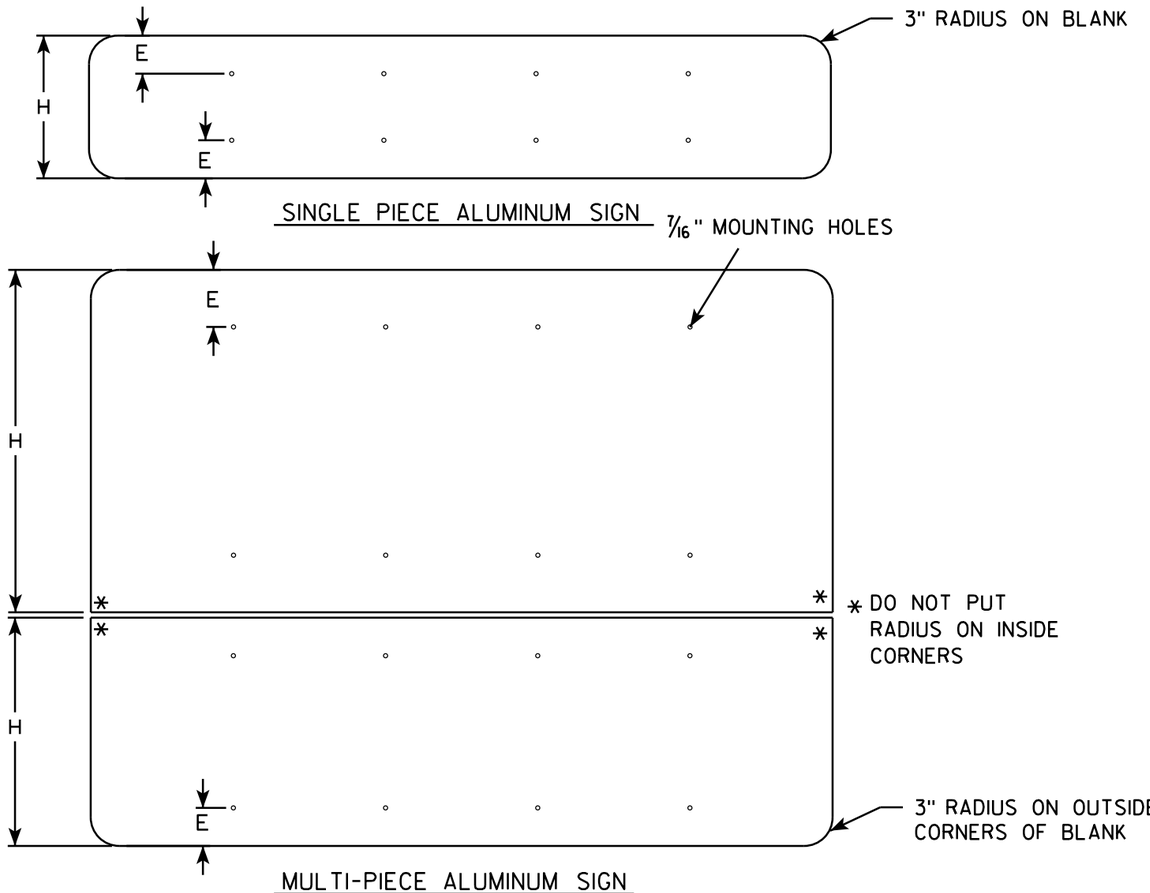
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

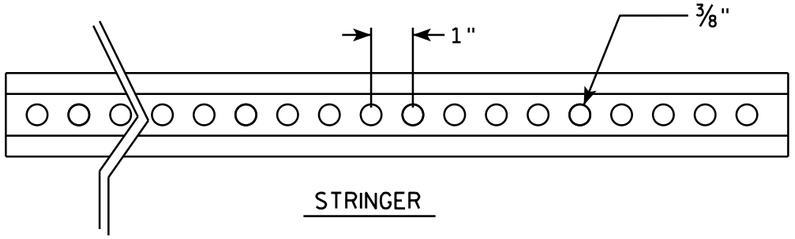
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 823	E



GENERAL NOTES

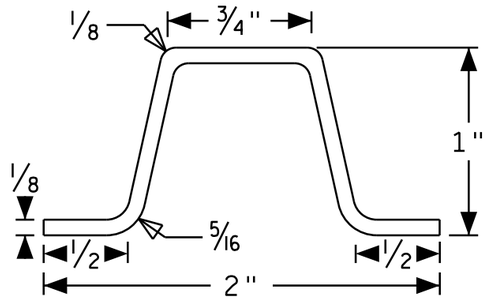
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

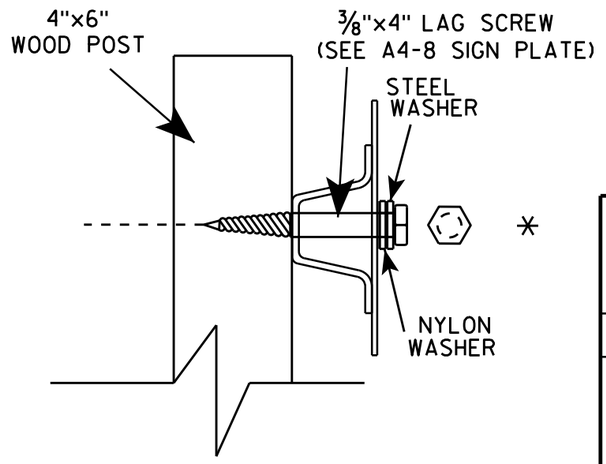


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

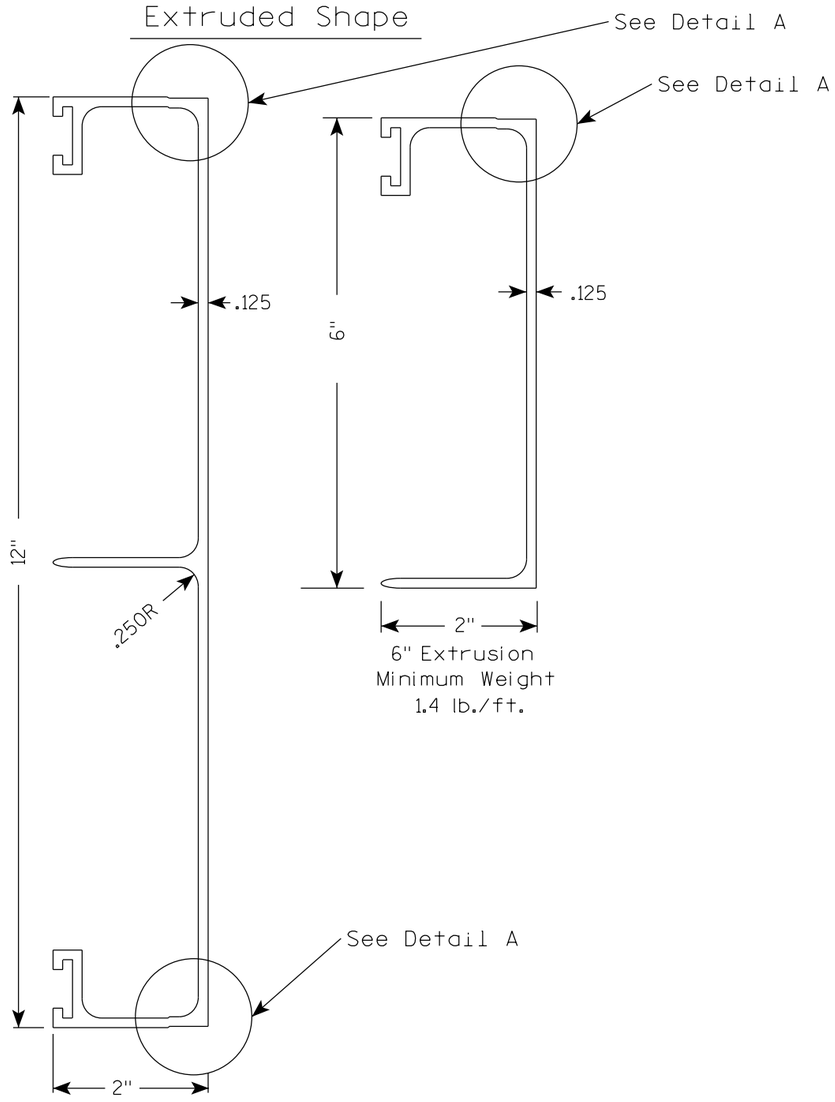
for State Traffic Engineer

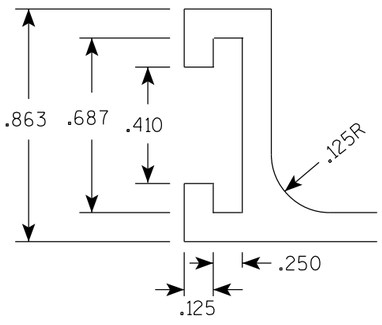
DATE 4/26/16 PLATE NO A4-18.1

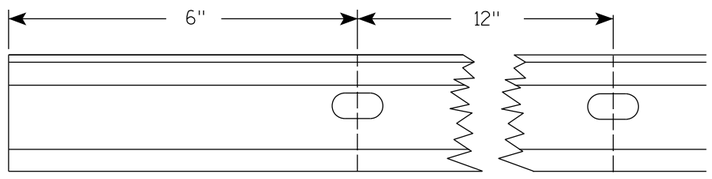
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

Extruded Shape







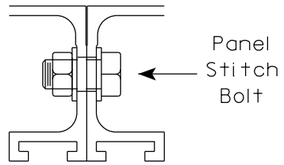
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

Hardware

STITCH BOLT, WASHER & NUT

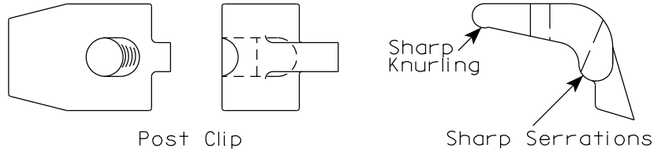
The hardware includes:

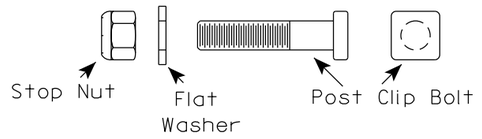
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



POST CLIP, POST CLIP BOLT, WASHER & NUT

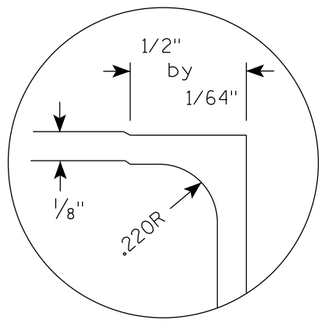
Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.
4. Edge wrapping of sign sheeting required on all extrusions joints shown in Detail A.



DETAIL A (EDGE WRAP JOINT)

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

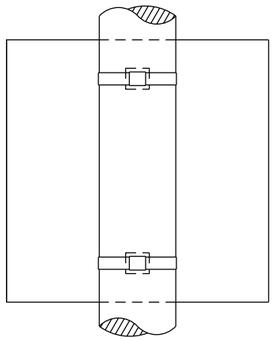
DATE 1/07/20 PLATE NO. A5-2.10

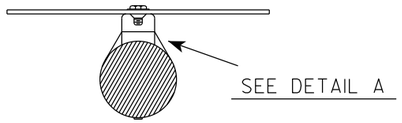
PROJECT NO:

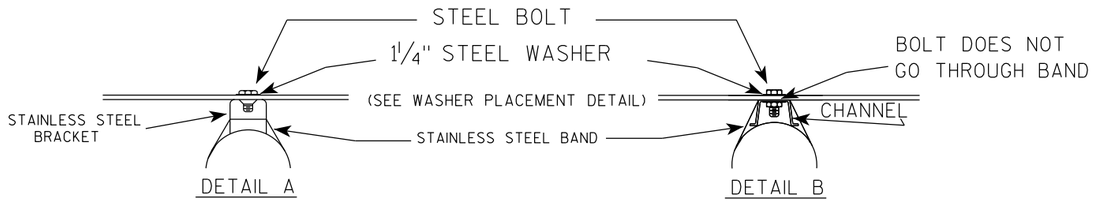
SHEET NO: 825 E

BANDING

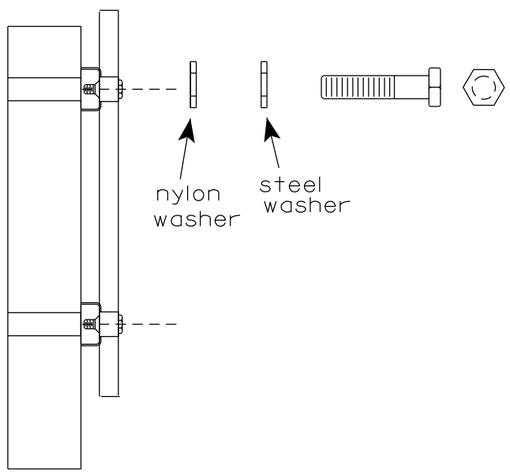
SINGLE SIGN







WASHER PLACEMENT

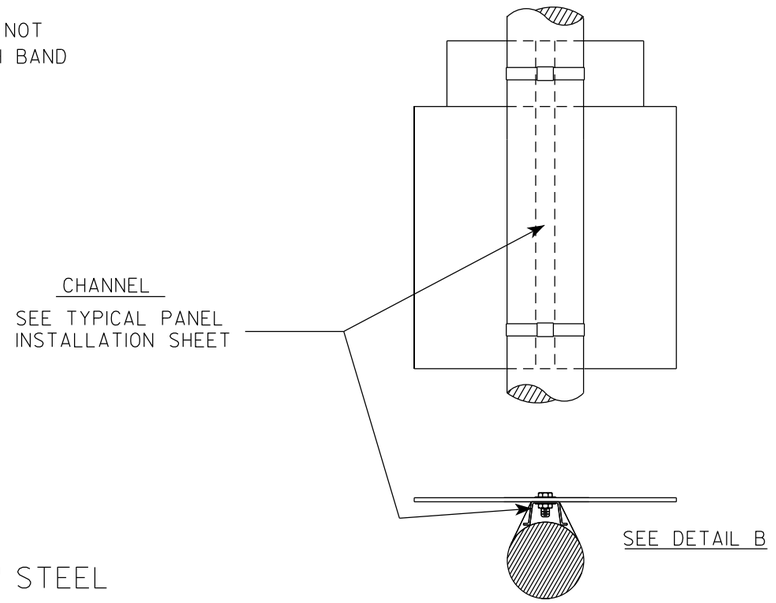


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

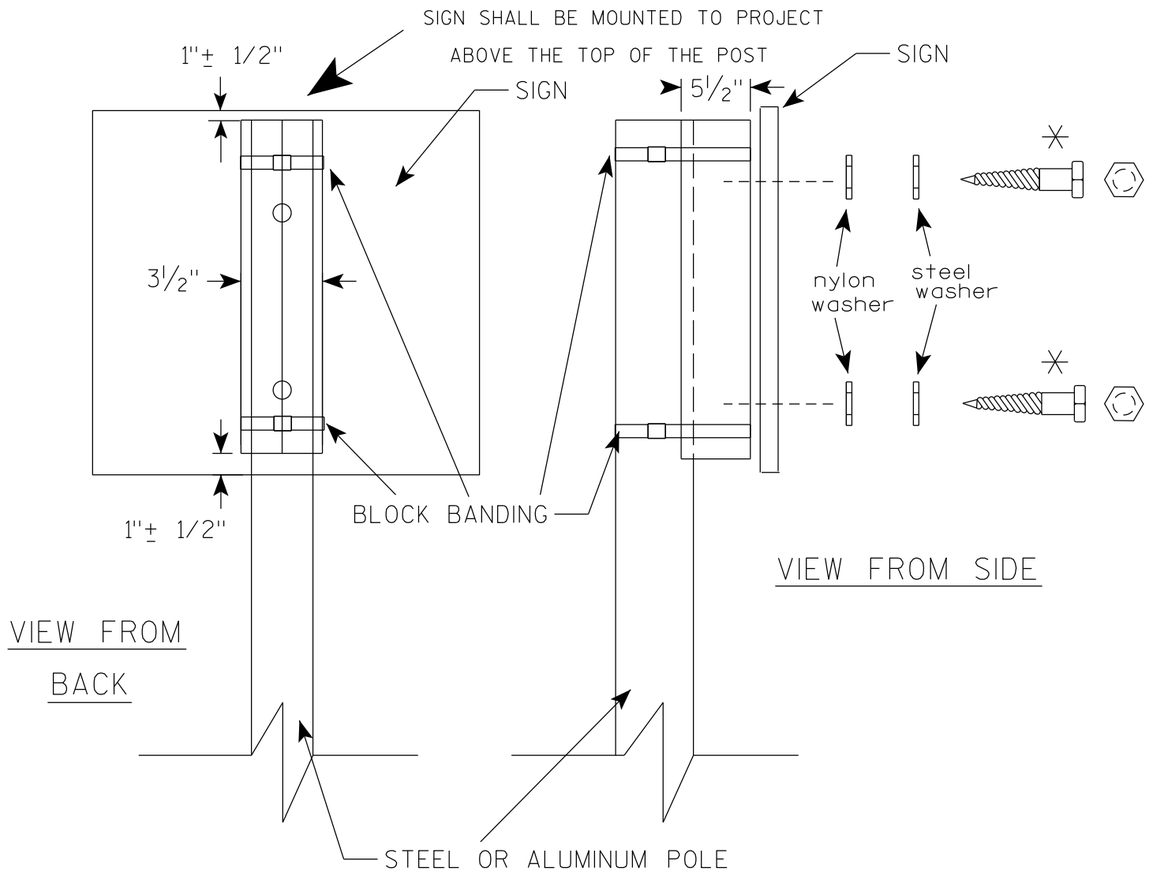
DATE 6/10/19 PLATE NO. A5-9.4

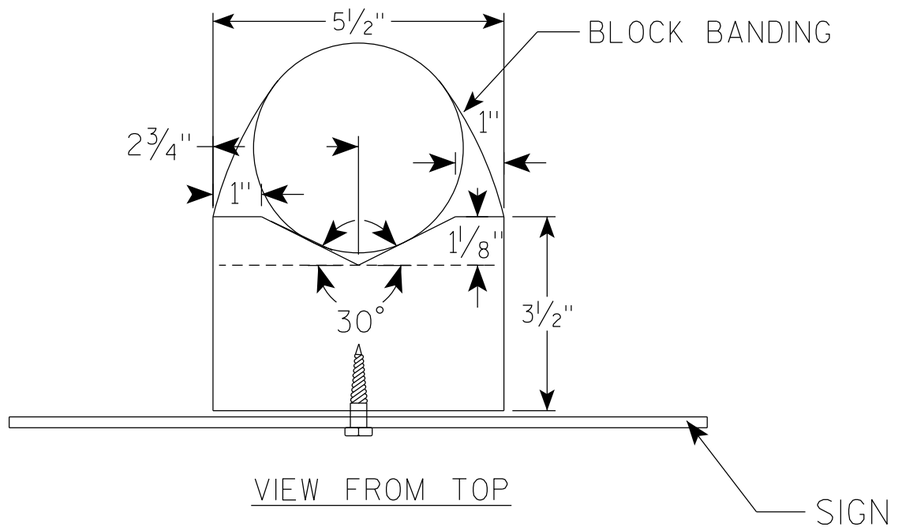
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 826	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

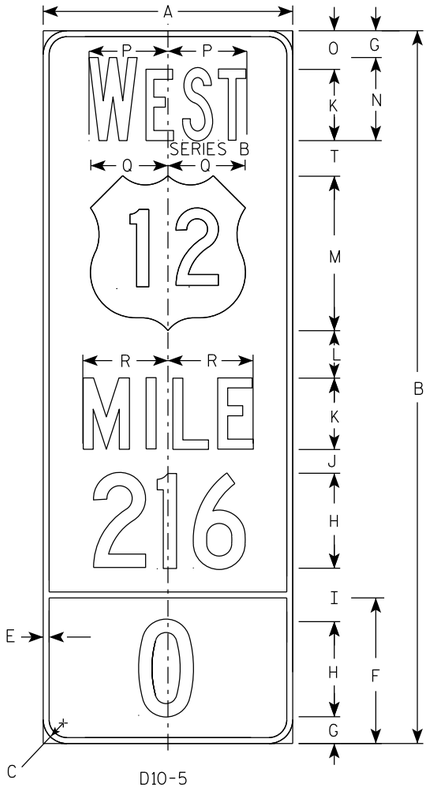
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

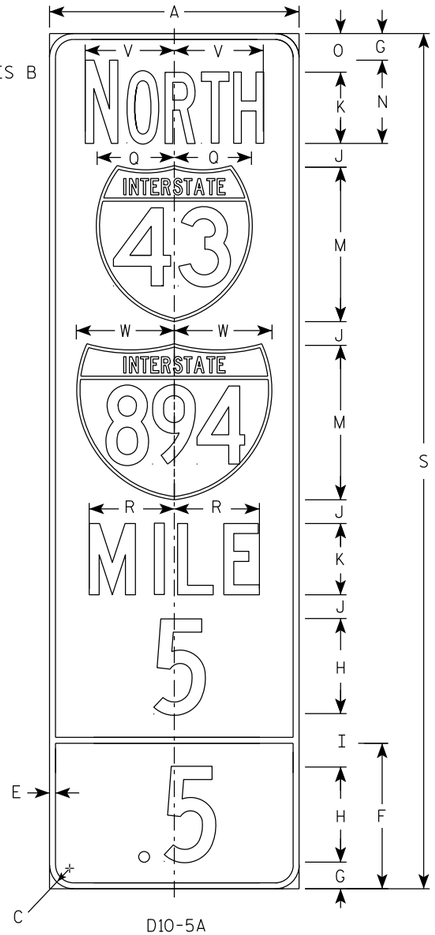
DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO: | SHEET NO: 827 | E

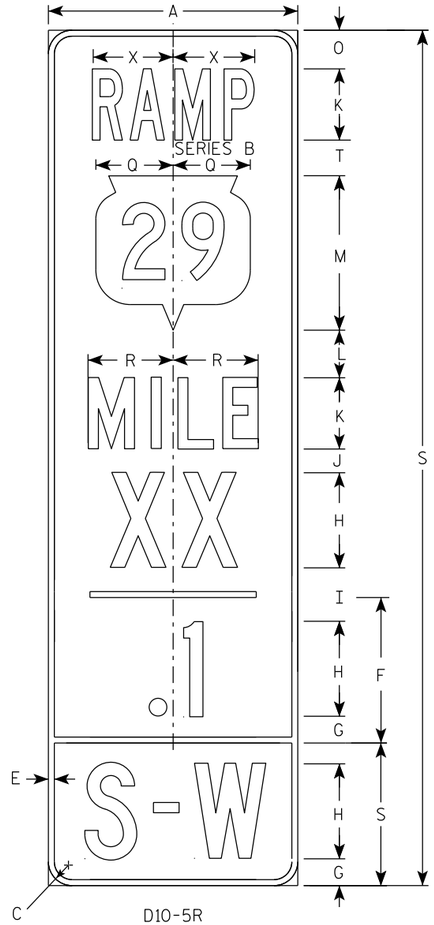


D10-5

SERIES B

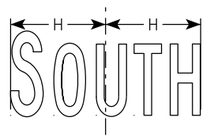


D10-5A



D10-5R

SERIES B



SERIES B

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLUE
   Message - WHITE
3. Interstate Shield Color
   Background - Top Red
   - Bottom Blue
   Message - White
4. Message Series - C or as noted on the Sign.
5. The decimal point is required for all digits except "0".
6. Optically adjust mileage numbers about the centerline of the sign to achieve proper balance.
7. Optically adjust Ramp direction letters about the centerline of the sign to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	D10-5 Area sq. ft.	D10-5A Area sq. ft.	D10-5R Area sq. ft.
1																													
2																													
3																													
4	21	60	1 ½		½	12 ¼	2 ¼	8	4 ½	2	6	4	13	6 ⅝	3 ¼	7	6 ½	7 ⅛	72	3		7 ½	8 ¼	6 ¾			8.75	10.5	10.5
5	21	60	1 ½		½	12 ¼	2 ¼	8	4 ½	2	6	4	13	6 ⅝	3 ¼	7	6 ½	7 ⅛	72	3		7 ½	8 ¼	6 ¾			8.75	10.5	10.5

STANDARD SIGN
D10-5

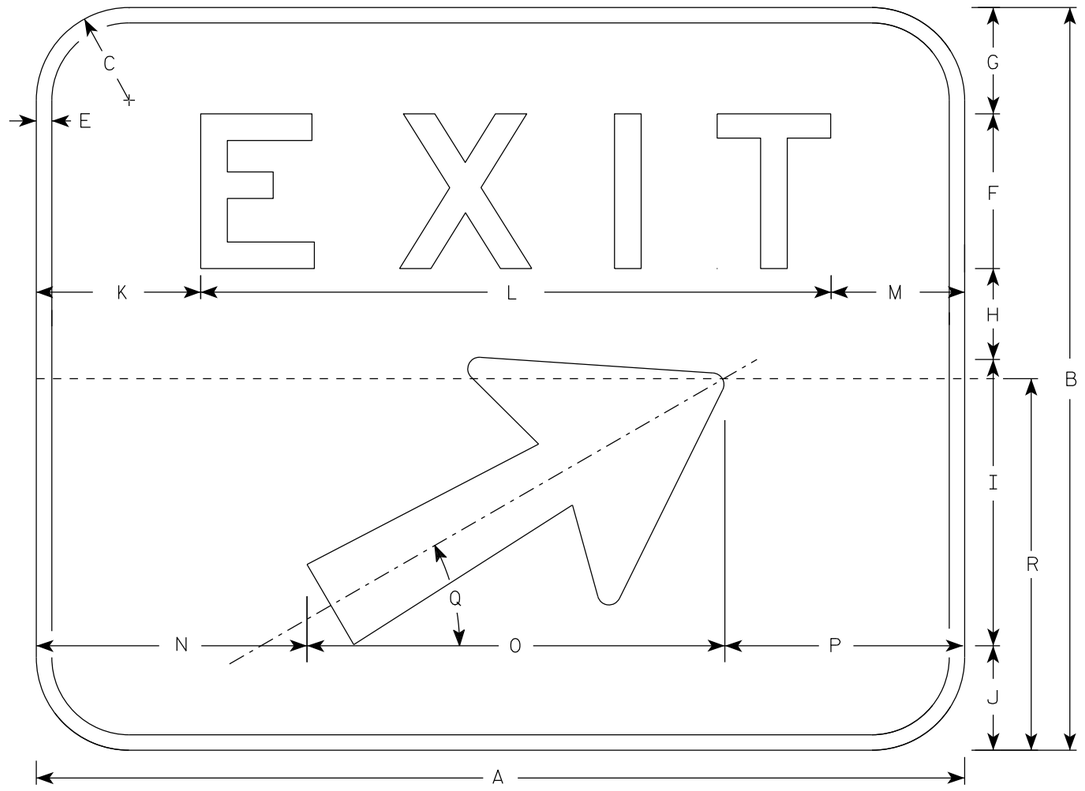
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/11/18 PLATE NO. D10-5.3

PROJECT NO:

SHEET NO: 828 E



E5-1

NOTES

1. Sign is Type II - Type H reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. When Base material for this sign is plywood sign shall be split into two seperate pieces for the 72 x 60 size as shown on the detail by the dashed line (----------).
6. Arrow is Type "A" from sign plate A1-1.
7. As per the Standard Spec's, this sign shall not have a vertical joint.
8. Size 3 E5-1 shall only be used in a Work Zone application with a Temporary Sign Support

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3	48	48	6		1	10	6 7/8	5 7/8	18 1/2	6 3/4	8 1/2	31 1/8	8 3/8	11 1/2	27	9 1/2	30°	30									16.0
4	60	48	6		1	10	6 7/8	5 7/8	18 1/2	6 3/4	10 5/8	40 3/4	8 5/8	17 1/2	27	15 1/2	30°	30									20.0
5	72	60	6		1	12	9 3/4	10	18 1/2	9 3/4	13 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°	30									30.0

STANDARD SIGN
E5-1

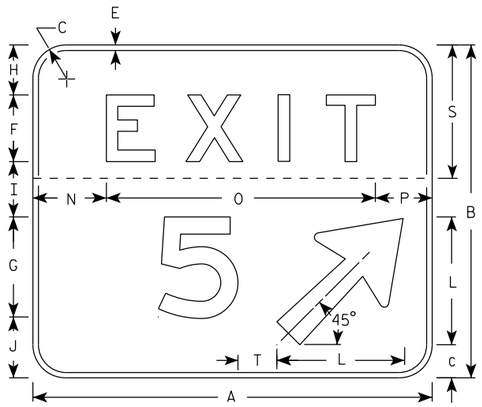
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

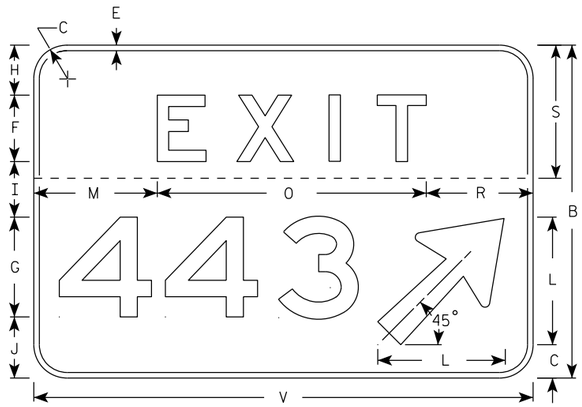
DATE 7/26/18 PLATE NO. E5-1.10

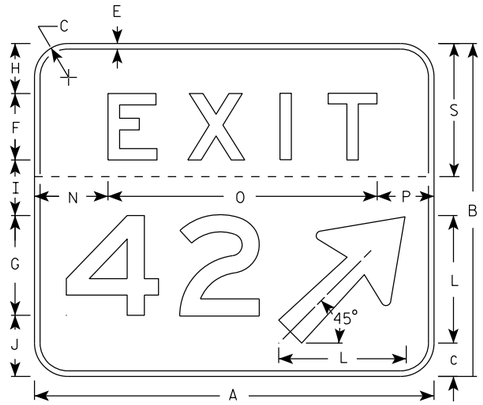
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 829 | E

7



NOTE: T diminision shall be measured from the back of the number to the front of the arrow





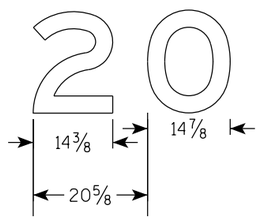
NOTES

1. Sign is Type II - Type H reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E
4. Corners may be square or rounded but the corners shall be rounded when base material is metal.
5. Sign shall be split into two seperate pieces as shown on each detail by the dashed line (_ _ _ _ _ _ _ _ _ _).
6. Arrow is Type "A" from sign plate A1-1.
7. Substitute appropriate message, space per the table and adjust placement on sign to achieve proper balance.
8. As per the Standard Spec's, these signs shall not have a vertical joint.

SPACING CHART FOR 18" NUMERALS

NUMBERS	WIDTH	0	1	2	3	4	5	6	7	8	9	A	B	C
0	14 7/8	21 5/8	21 5/8	21 1/4	20 3/8	21 1/4	21 1/4	21 5/8	19 7/8	22 1/8	21 5/8			
1	5 7/8	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14			
2	14 3/8	20 5/8	21 1/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8	18 7/8	21 1/8	20 5/8			
3	14 3/8	20 3/4	21 1/8	20 3/4	20 1/4	19 3/4	20 3/4	20 3/4	19 3/8	21 1/8	20 3/4			
4	16 5/8	22 7/8	22	22 1/2	21 5/8	21 5/8	22 7/8	22 7/8	20 5/8	23 3/8	22 7/8			
5	14 1/4	20 5/8	20 5/8	20 1/8	18 3/4	18 3/4	20 5/8	20 5/8	18 3/8	20 5/8	20 5/8			
6	14 1/2	21 1/4	20 3/4	20 3/4	19 7/8	19 1/2	20 3/8	20 3/4	19	20 3/4	20 3/8			
7	14 3/8	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4			
8	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8			
9	14 1/2	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4			
A	18	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	21 5/8	23 7/8	23
B	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/2	22 3/8	21 1/2
C	14 1/4	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18 3/8	21	19 3/4

EXAMPLE FOR USING SPACING CHART



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
2																										
3																										
4																										
5	72	60	6		1	12	18	9	10	11	8 7/8	23	22 1/4	13 1/4	48 1/2	10 1/4		19 1/4	24	7		90		96	7 1/2	

1-2 Digit Bid Area	3 Digit Bid Area
Sq. Ft.	
30	37.5

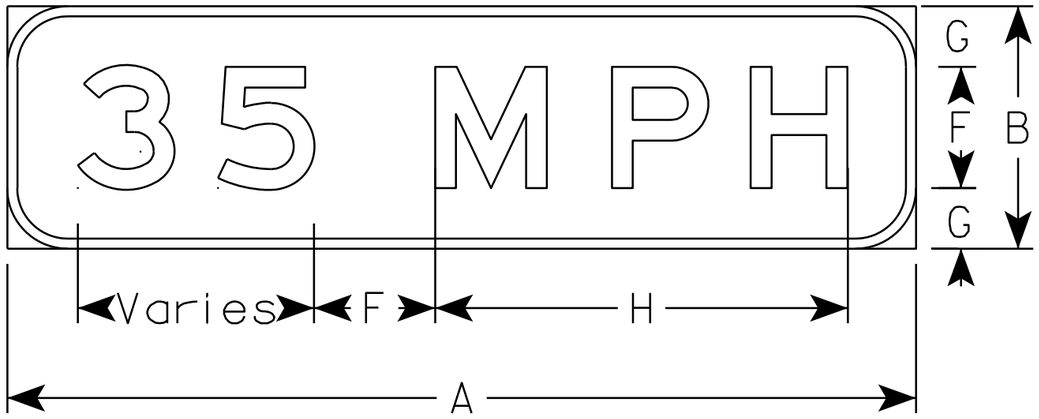
STANDARD SIGN E5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. E5-1A.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 830	E



E13-1P

NOTES

1. Panel is - Type F reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E
4. The panel shown on this plate is for use with E5-1A.
5. Width, Radius and Border thickness shall match the E5-1A.
6. Substitute appropriate numerals and adjust placement to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	VARIES	24				12	6	40 7/8																			VARIES
2M																											
3																											
4																											
5																											

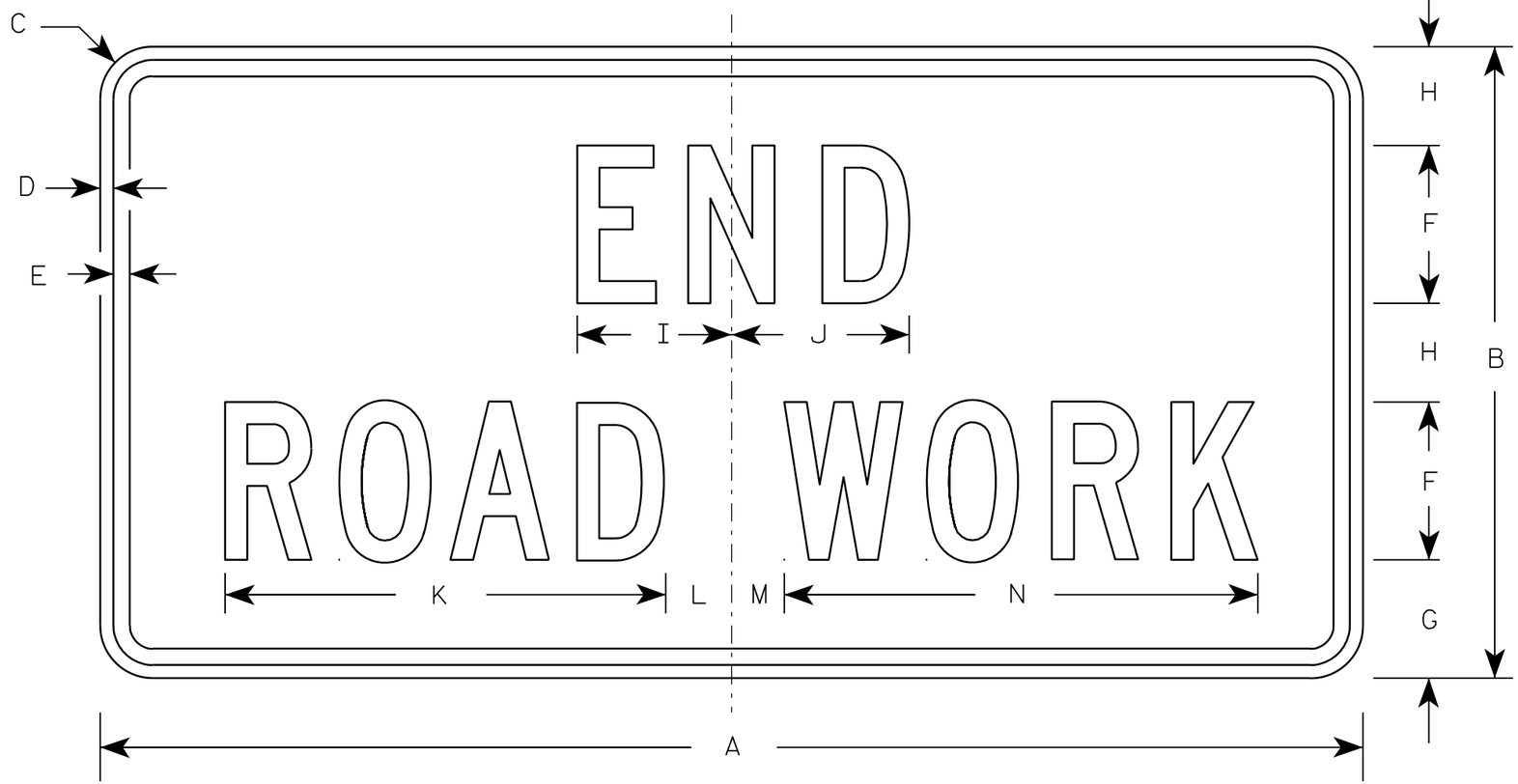
STANDARD SIGN
E13-1P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/5/2012 PLATE NO. E13-1P.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 831	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

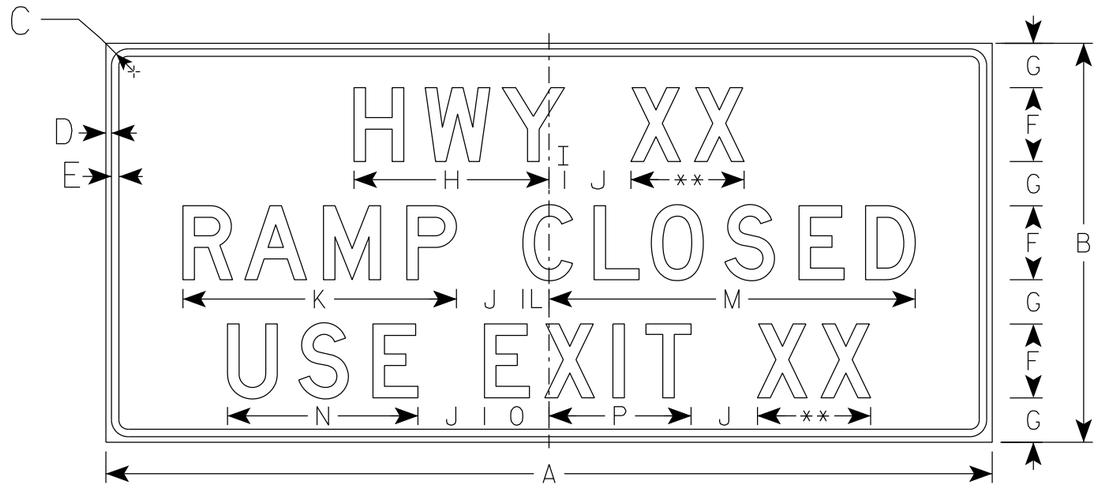
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 832	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN PLOT DATE : 30-SEP-2009 09:31 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 5.561773:1.000000

7

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Substitute appropriate Highway Number and Exit Number and optically center message



G20-56

** See Note 4

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	120	54	3	¾	1	10	6	26 ⅜	2 ⅛	9	37	3 ½	49 ⅝	25 ¾	8 ¾	19 ¼											45.0
5	120	54	3	¾	1	10	6	26 ⅜	2 ⅛	9	37	3 ½	49 ⅝	25 ¾	8 ¾	19 ¼											45.0

STANDARD SIGN
G20-56

WISCONSIN DEPT OF TRANSPORTATION

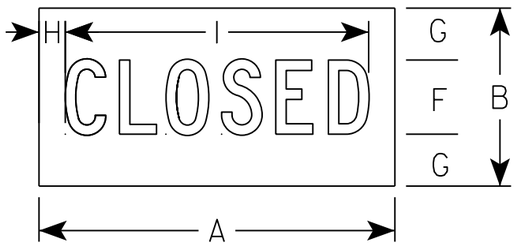
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 6/19/18 PLATE NO. G20-56.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 833 | E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Material shall be .040 aluminmum



G20-62

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	48	24				10	7	3 ½	40 ⅞																		8.0
5																											

STANDARD SIGN
G20-62

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/24/15 PLATE NO G20-62.1

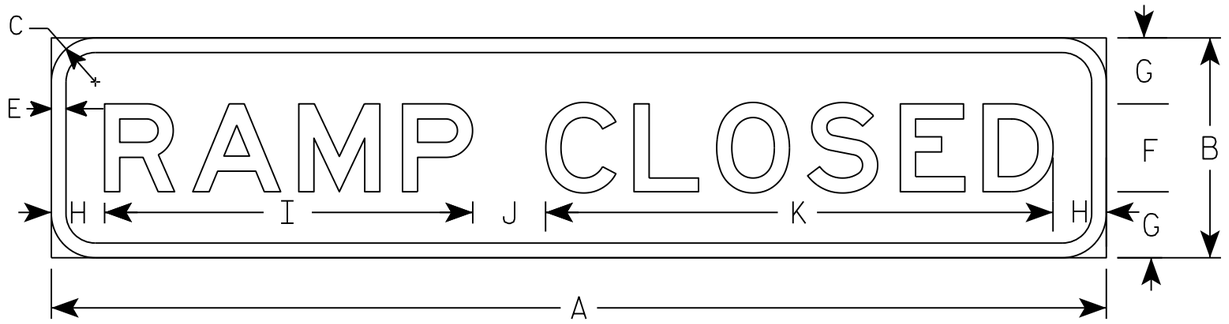
834

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G2062.DGN PLOT DATE : 01-DEC-2015 17:53 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 20.431338:1.000000

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - E



G20-64

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	144	30	6		2	12	9	7 1/4	50 1/4	10	69 1/4																30.0
5																											

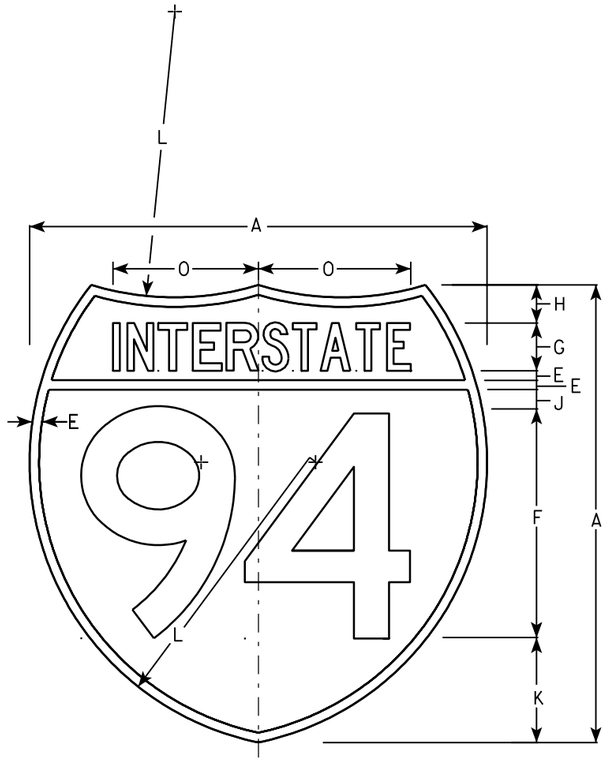
STANDARD SIGN
G20-64

WISCONSIN DEPT OF TRANSPORTATION

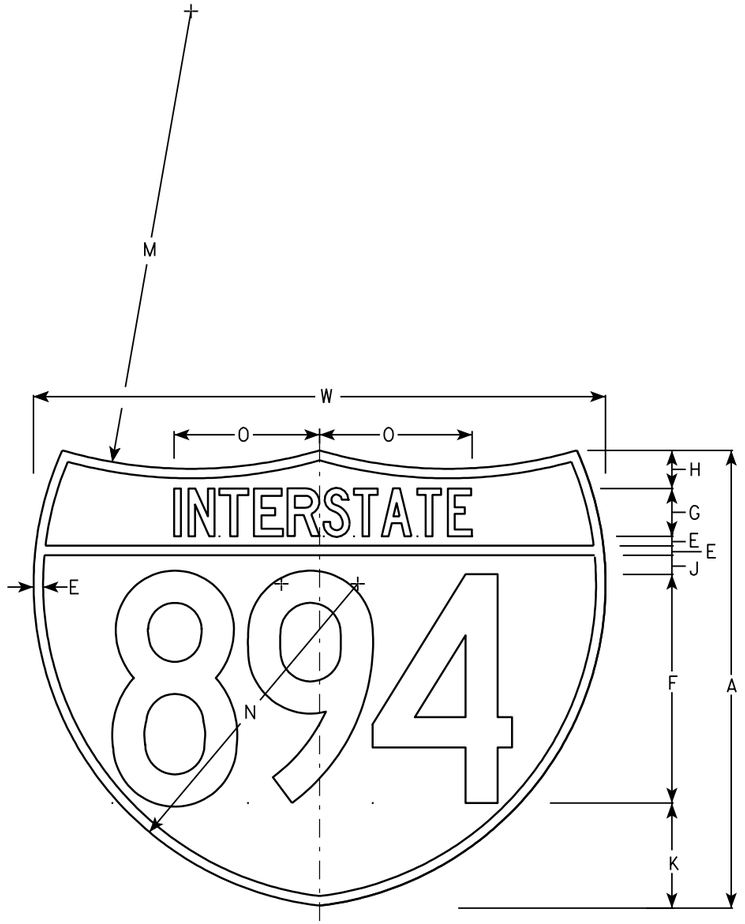
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/18 PLATE NO. G20-64.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 835 E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 1/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

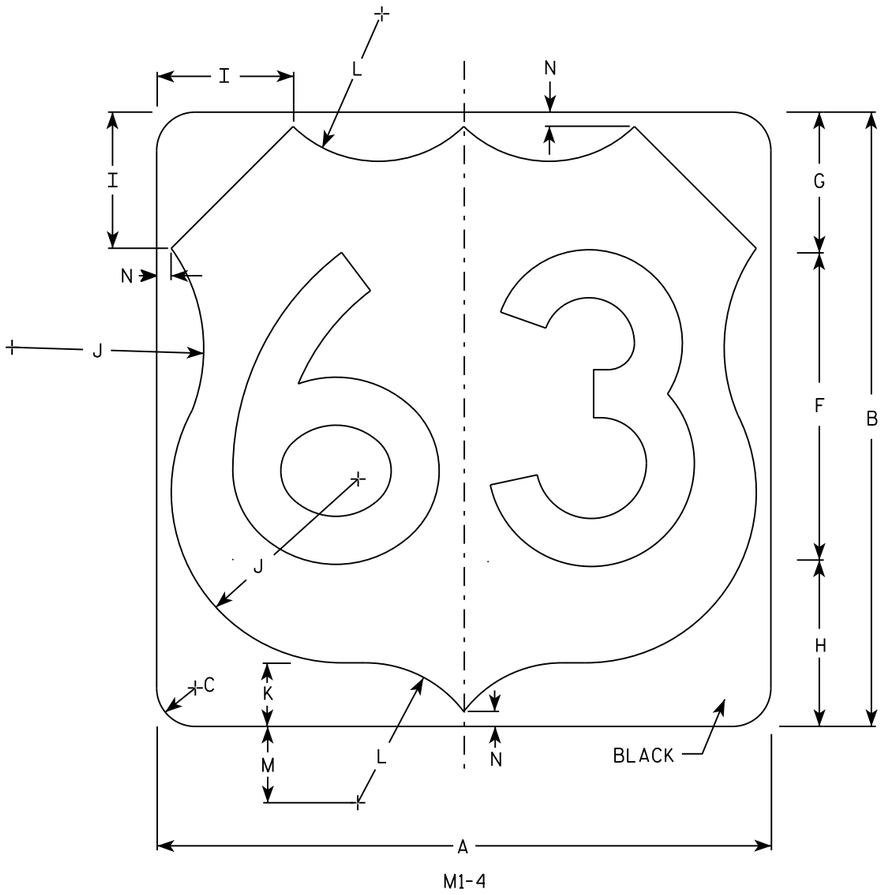
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

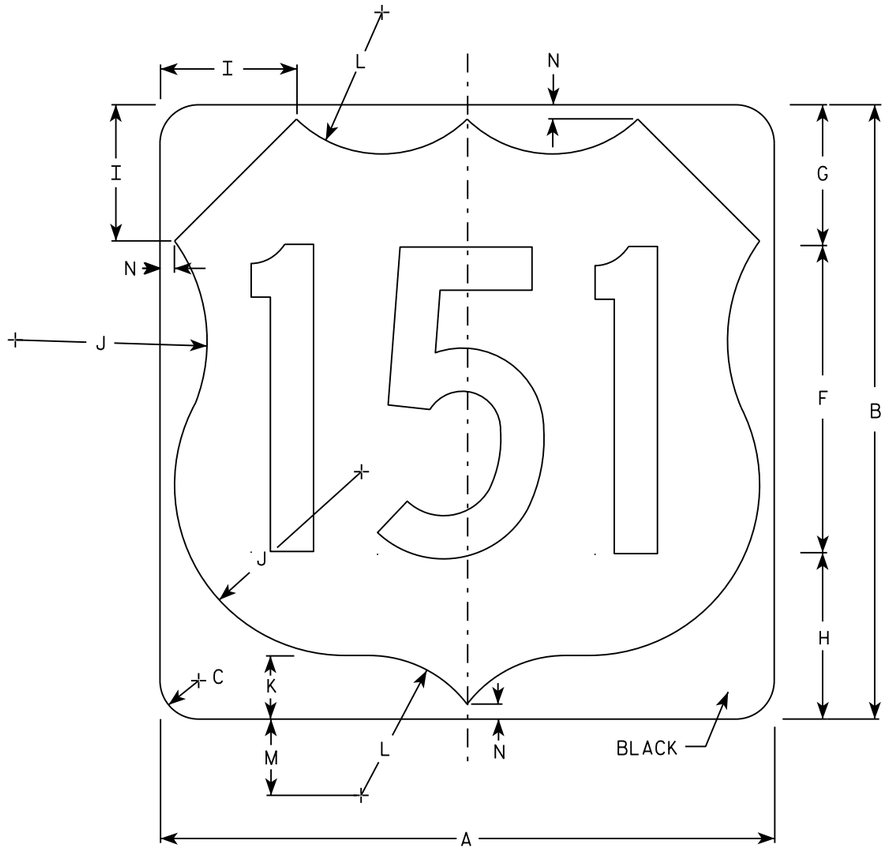
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 836	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M1-4



M1-4

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area Sq. ft.
1																											
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

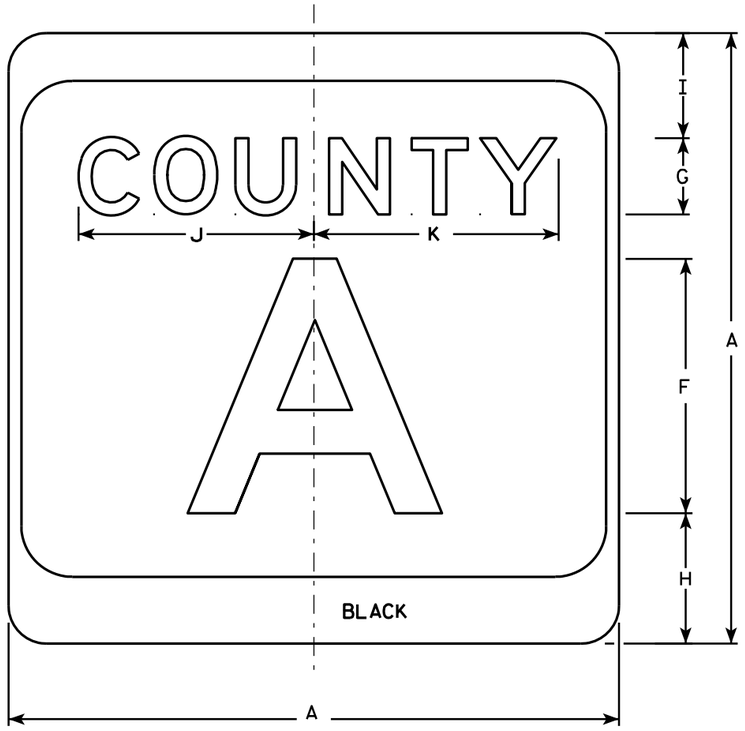
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

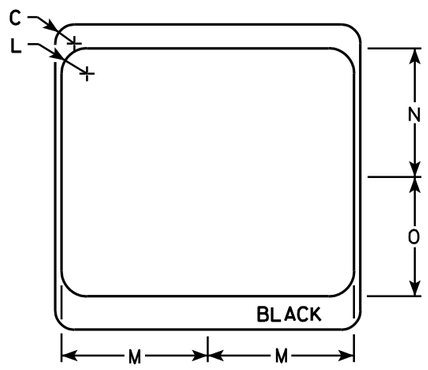
APPROVED Matthew R Rauch
for State Traffic Engineer

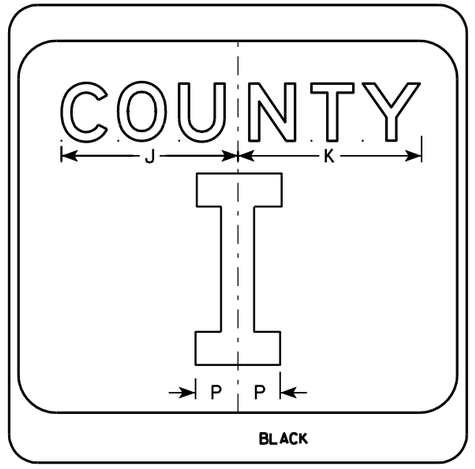
DATE 3/16/18 PLATE NO. M1-4.10

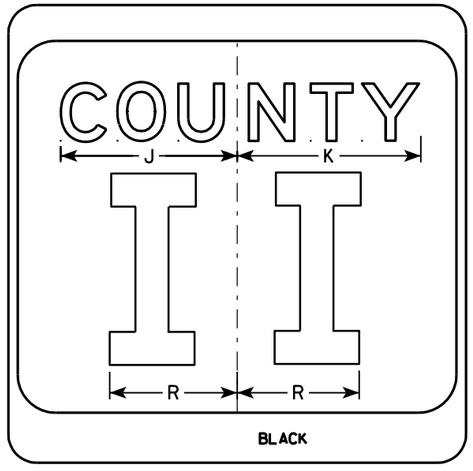
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 837	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

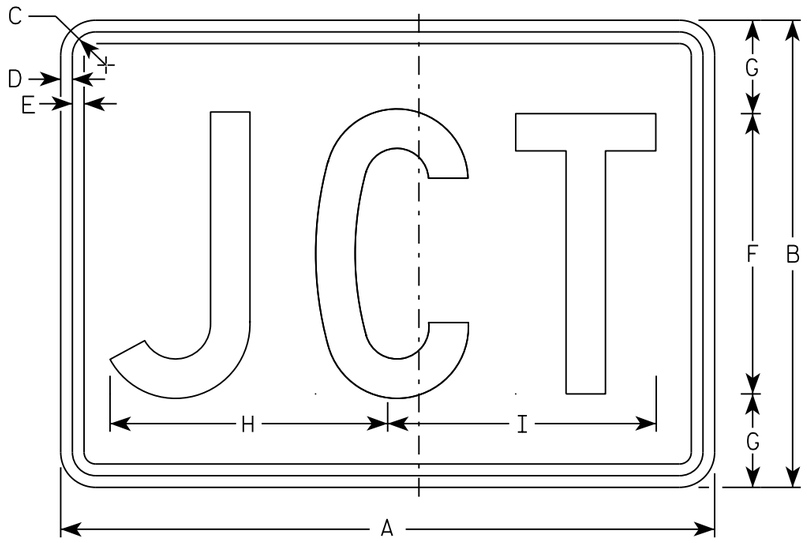
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

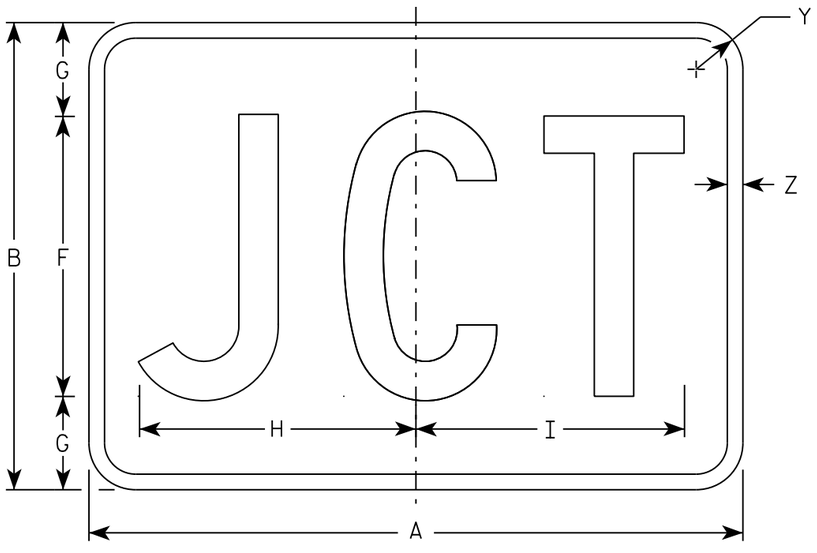
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 838	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

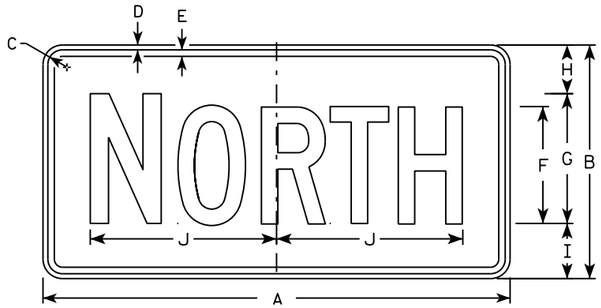
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

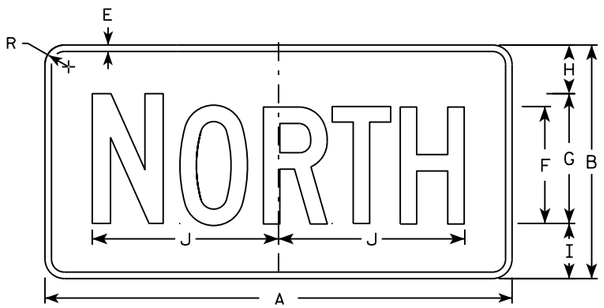
DATE 10/15/15 PLATE 839 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



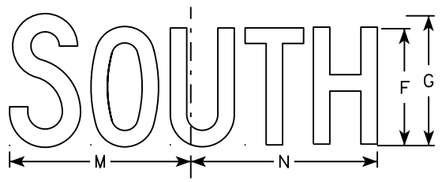
M3-1
MM3-1
MP3-1



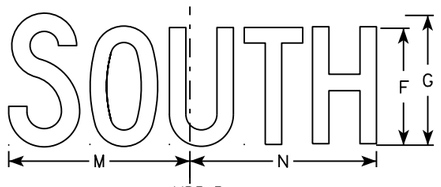
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

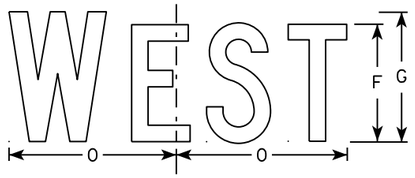
MB3-2
MK3-2
MN3-2



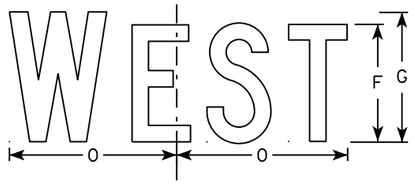
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

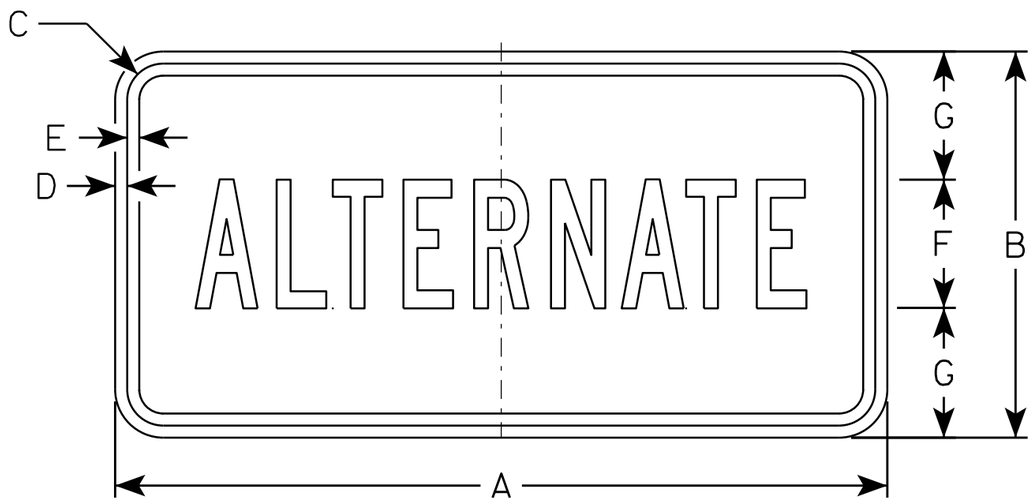
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

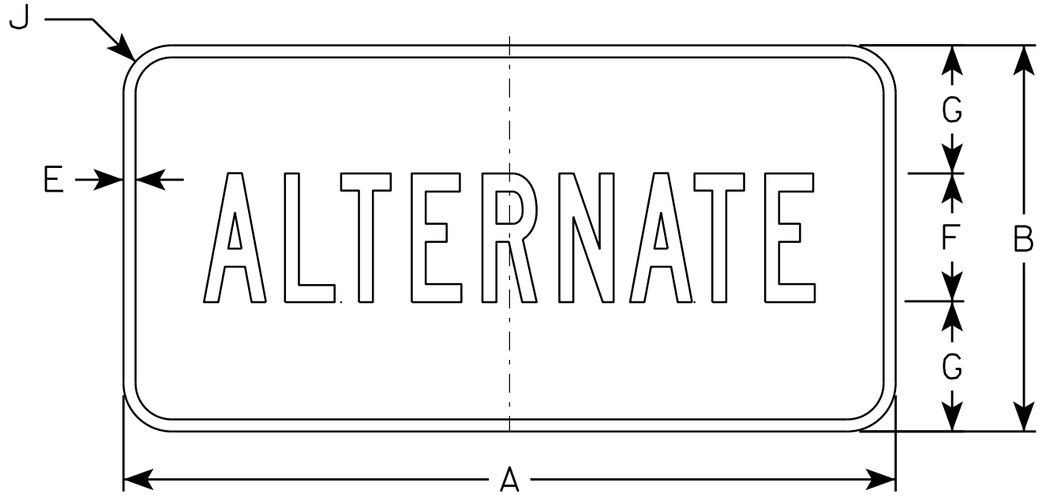
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-1
M04-1



MB4-1

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   M04-1 Background - Orange - Type F
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

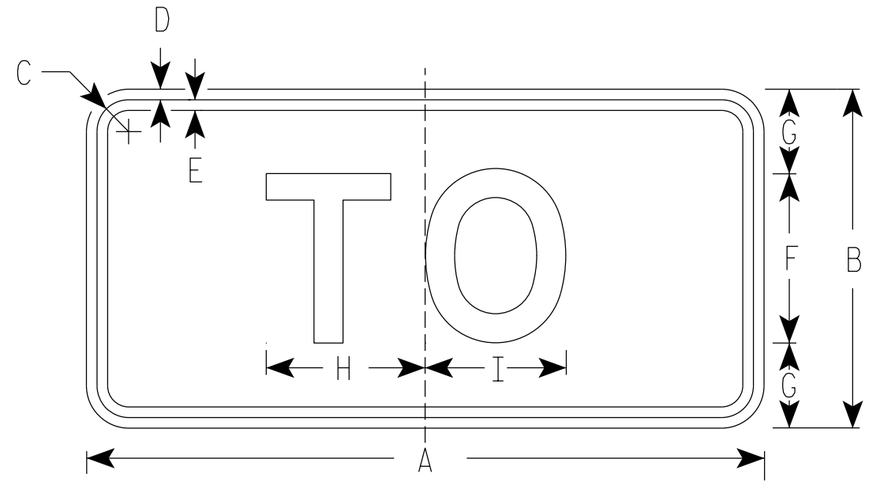
STANDARD SIGN
M4-1

WISCONSIN DEPT OF TRANSPORTATION

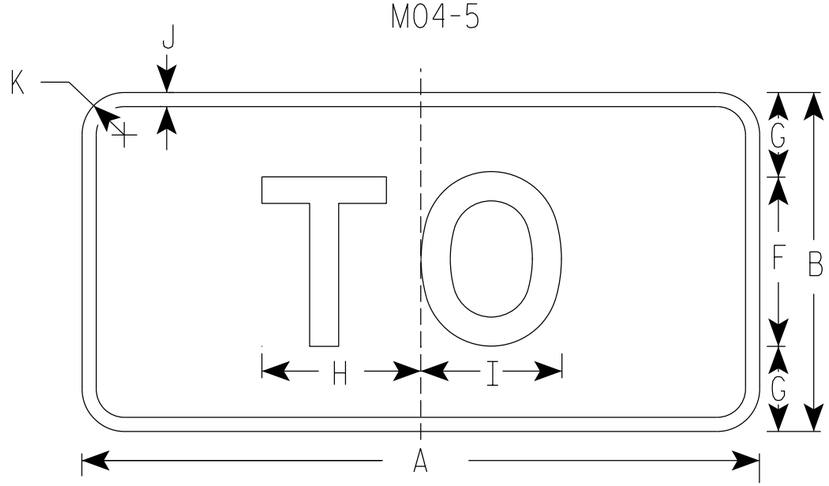
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/14 PLATE 841 '14-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-5

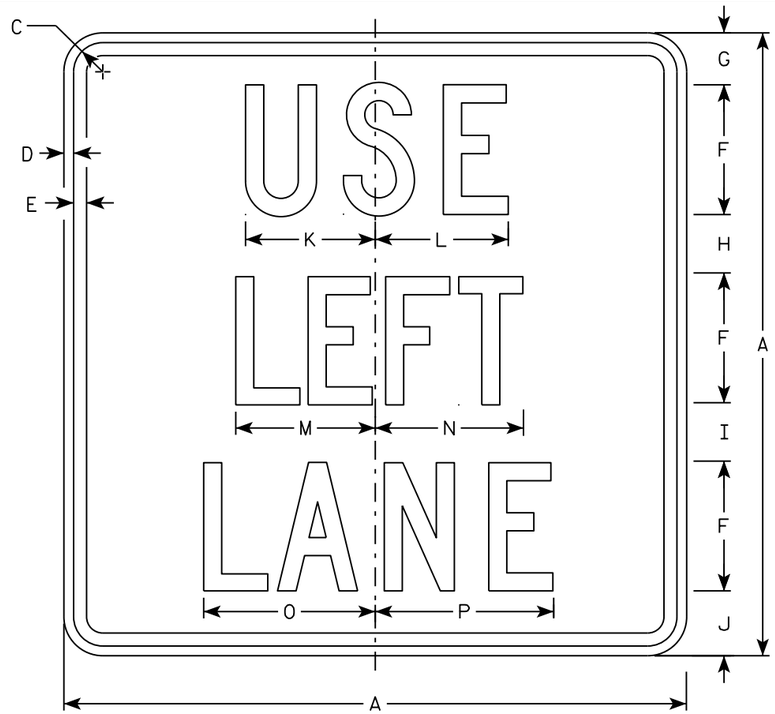
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/7/19 PLATE NO. M4-5.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 842 | E

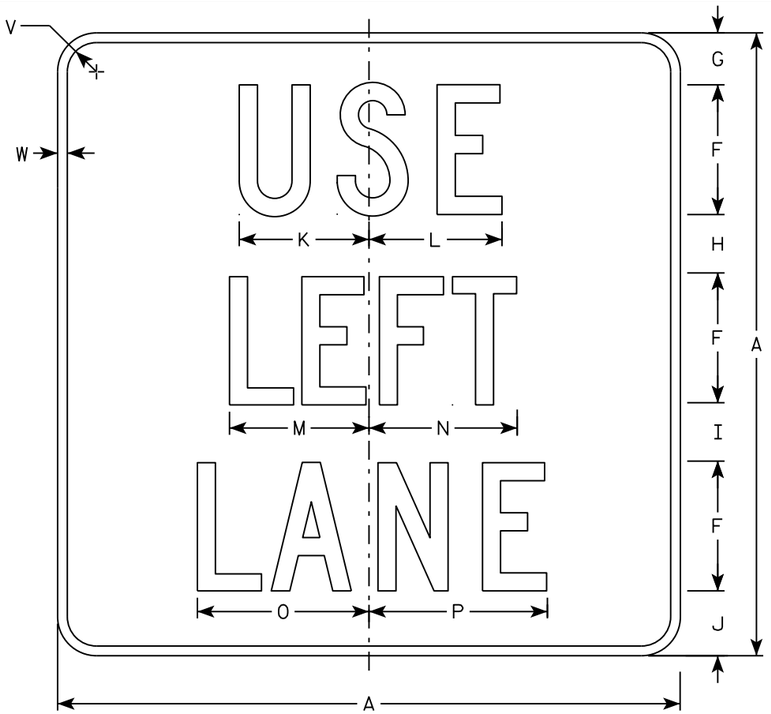
7



M4-20L

A

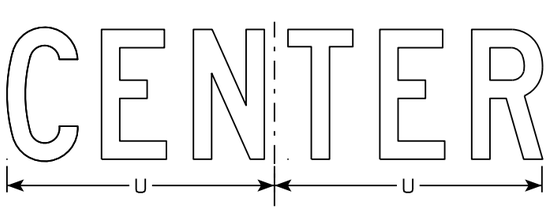
M4-20L
MM4-20L
M04-20L
MP4-20L



MB4-20L

A

MB4-20L
MK4-20L
MN4-20L
MR4-20L



M4-20C
MB4-20C
MK4-20C
MM4-20C
MN4-20C
M04-20C
MP4-20C
MR4-20C

M4-20R
MB4-20R
MK4-20R
MM4-20R
MN4-20R
M04-20R
MP4-20R
MR4-20R

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-20 Background - White
   Message - Black
   MB4-20 Background - Blue
   Message - White
   MK4-20 Background - Green
   Message - White
   MM4-20 Background - White
   Message - Green
   MN4-20 Background - Brown
   Message - White
   M04-20 Background - Orange - Type F Reflective
   Message - Black
   MP4-20 Background - White
   Message - Blue
   MR4-20 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	5 3/8	5 3/4	6 5/8	6 7/8			7	7 5/8	10 1/4	1 1/2	1/2				4.0
3	36		1 5/8	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	8	8 5/8	9 7/8	10 1/4			10 3/8	11 3/8	14 3/8	1 7/8	1/2				9.0
4																											
5																											

STANDARD SIGN
M4-20

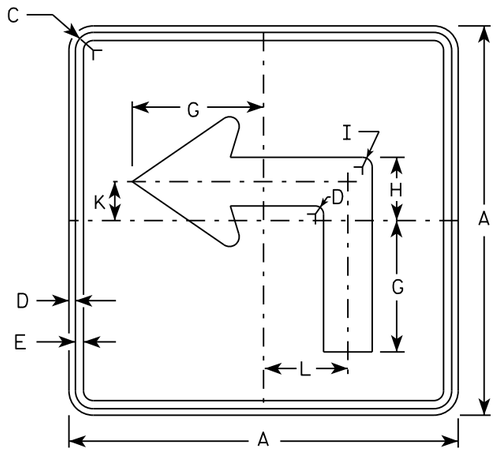
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

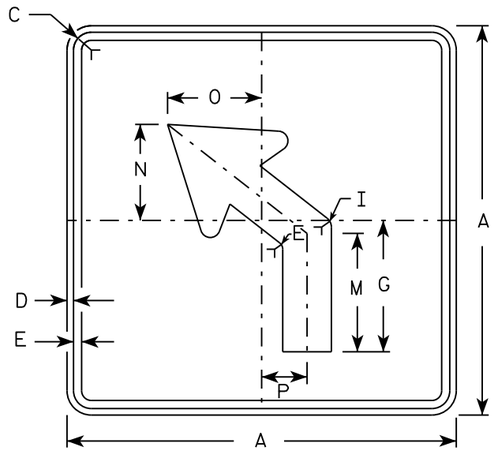
DATE 10/15/15 PLATE NO M4-20.5
843

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

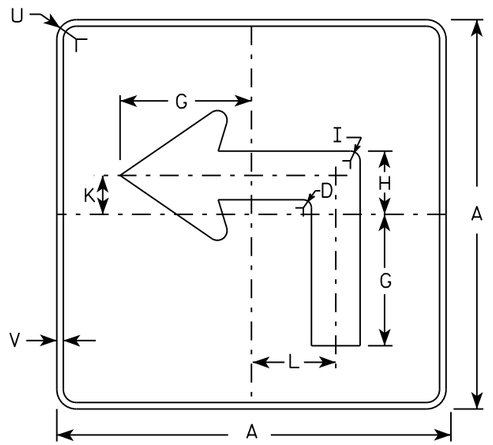
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M420.DGN PLOT DATE : 01-DEC-2015 18:03 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.837526:1.000000



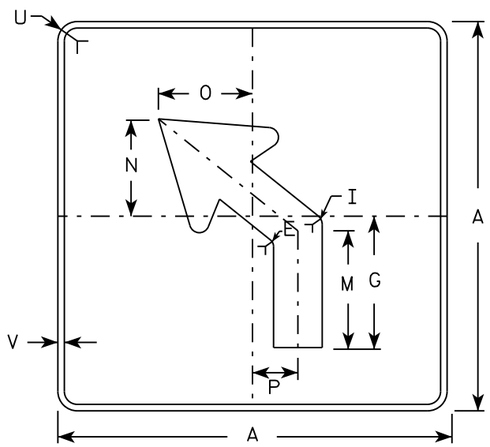
M5-1L
MM5-1L
MO5-1L
MP5-1L



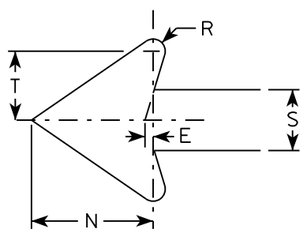
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

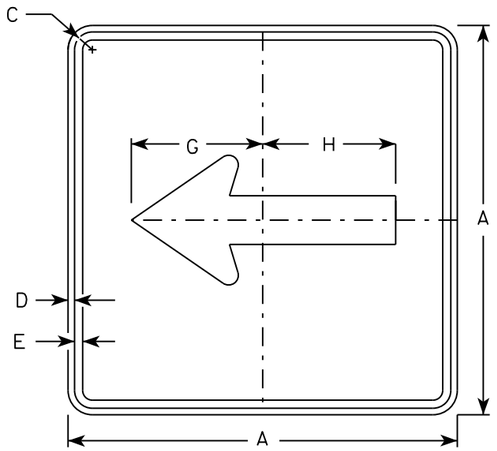
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

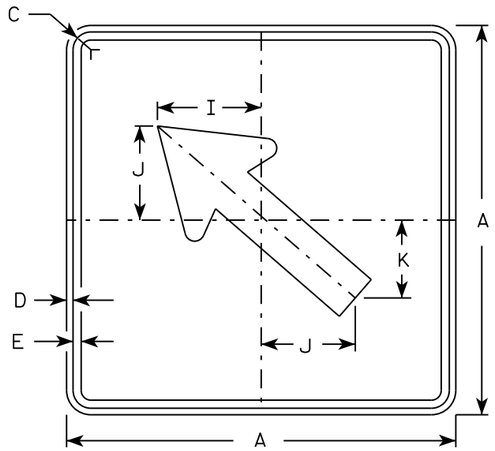
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



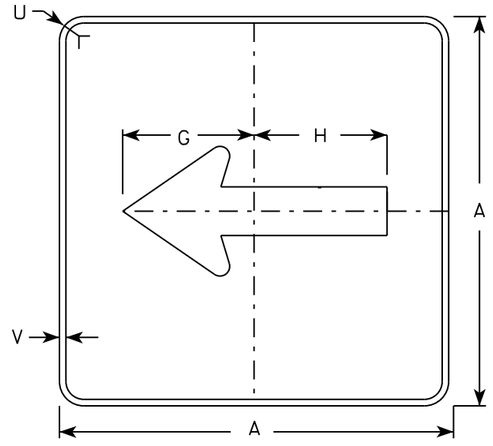
M6-1
MM6-1
MO6-1
MP6-1



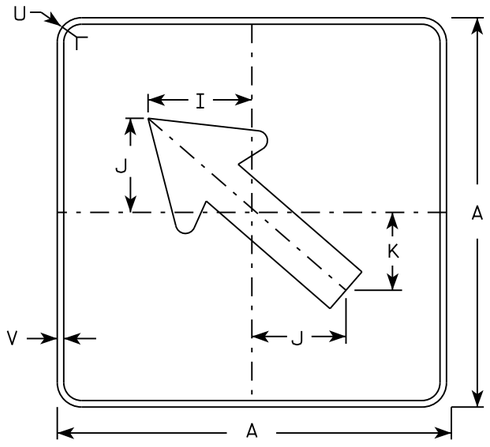
M6-2
MM6-2
MO6-2
MP6-2

NOTES

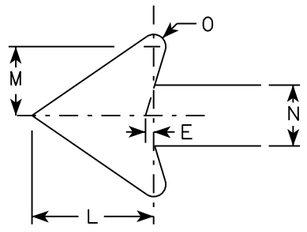
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

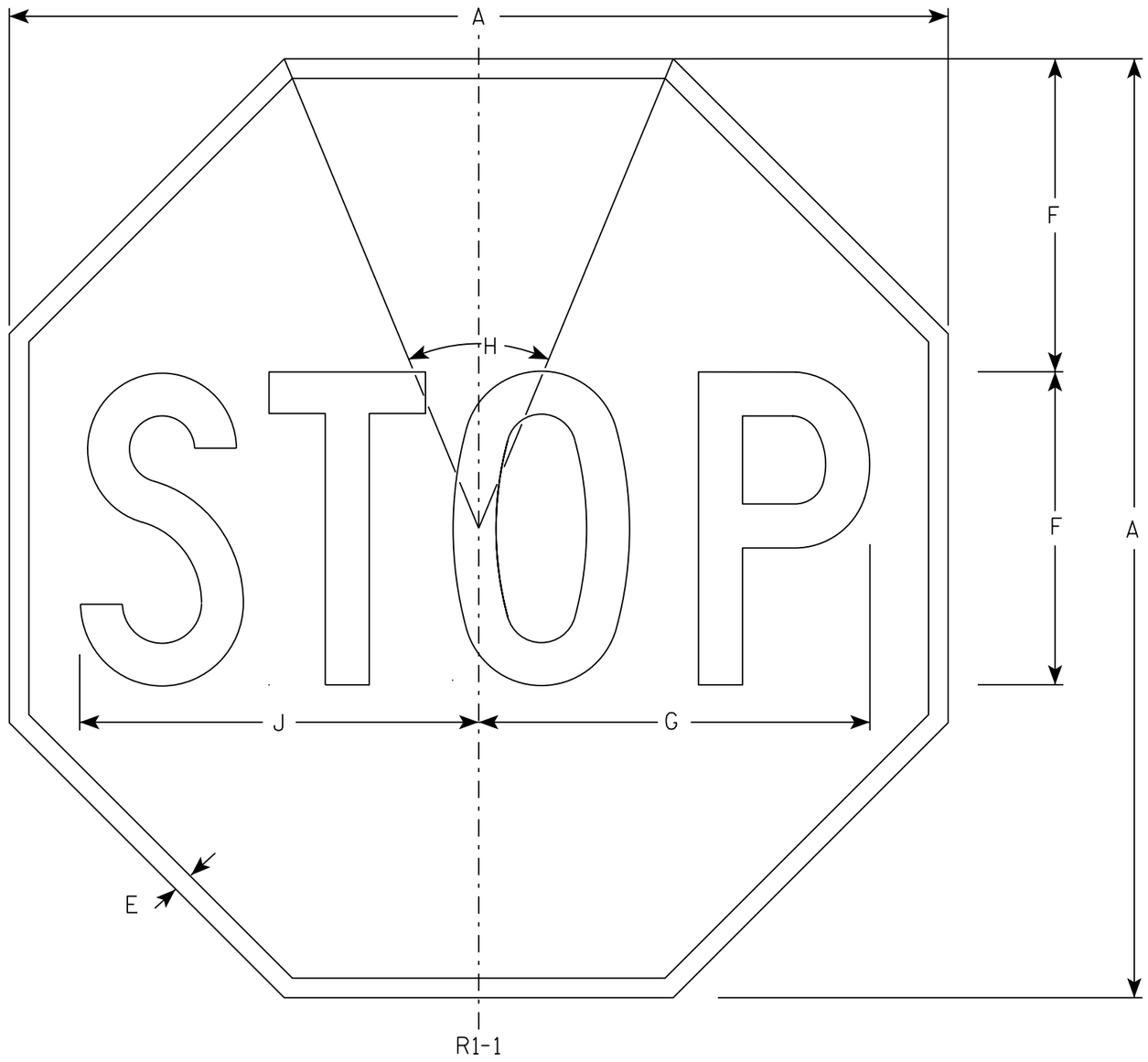
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 845 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

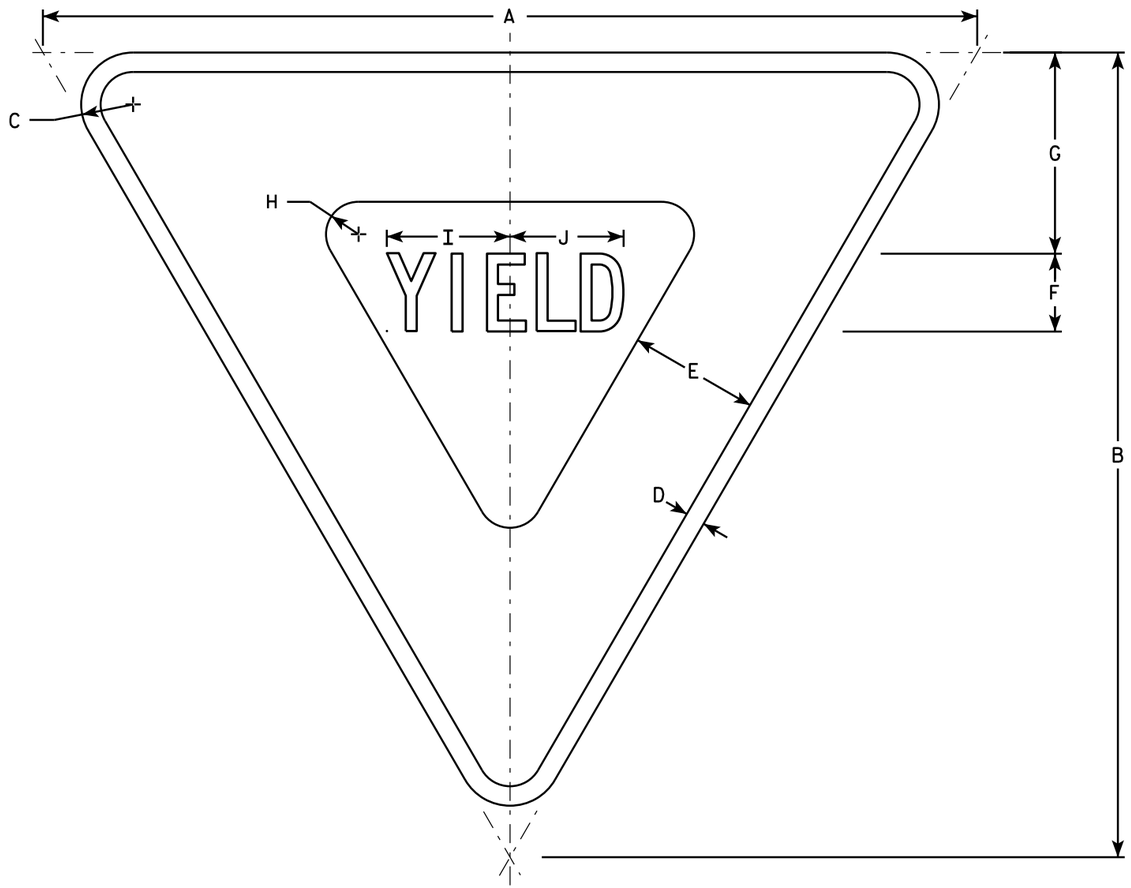
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 846	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

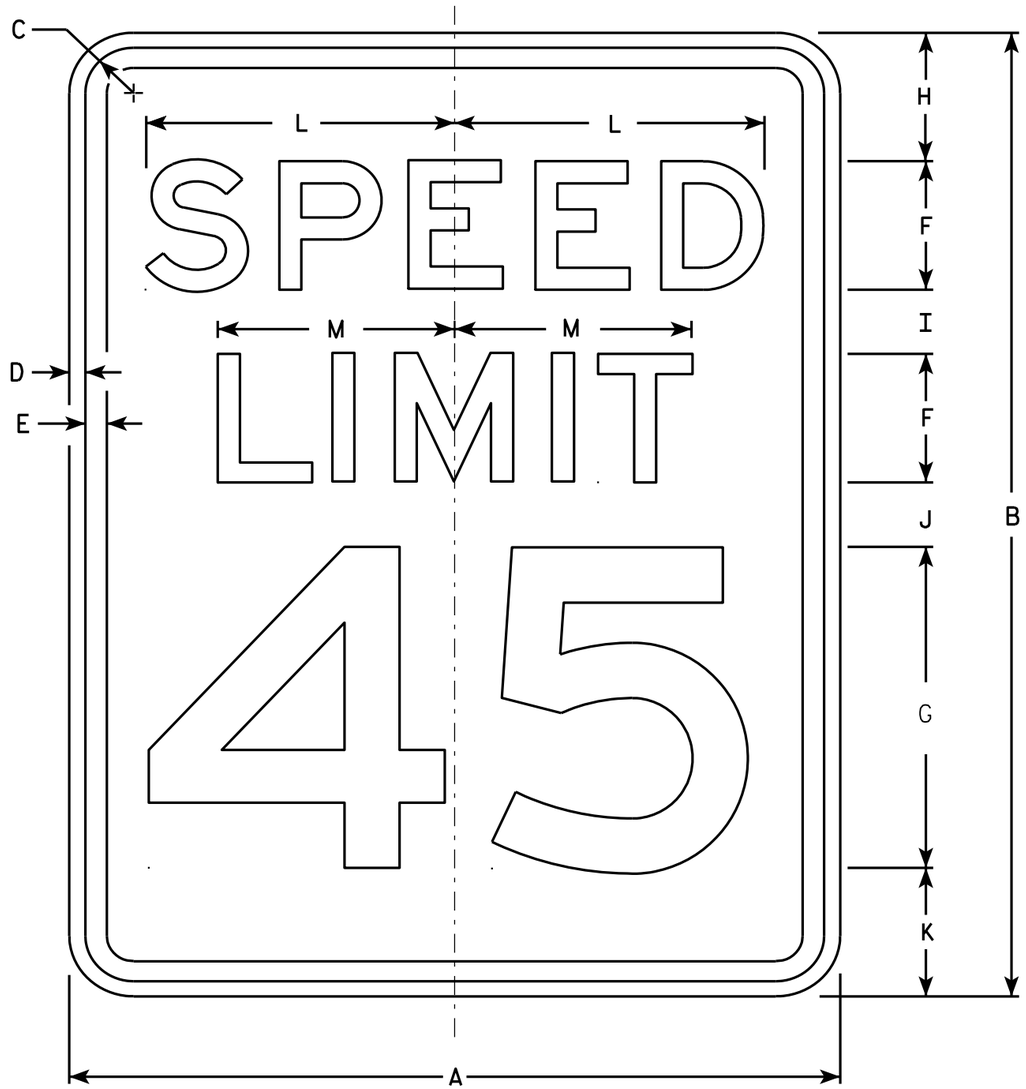
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

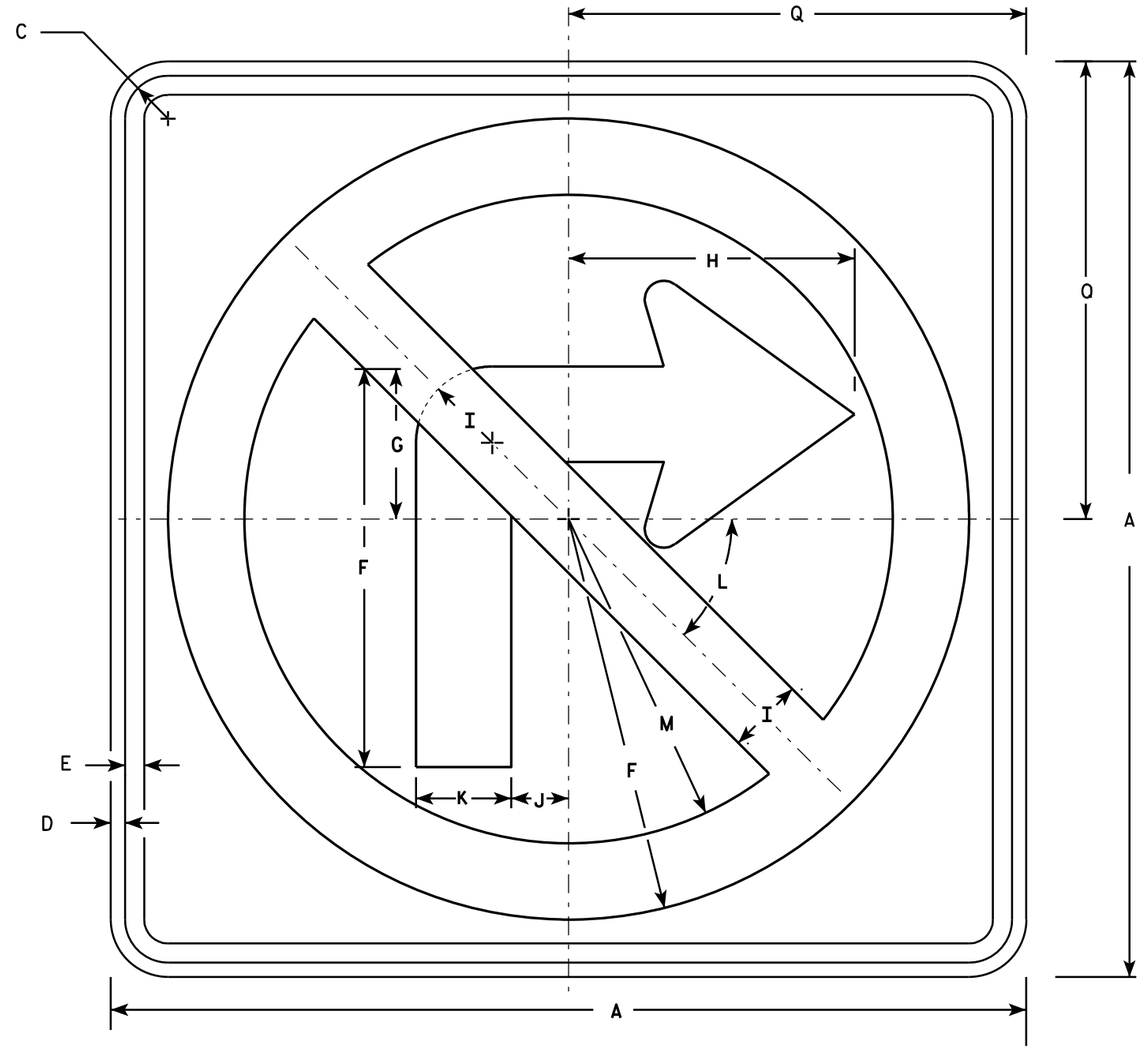
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

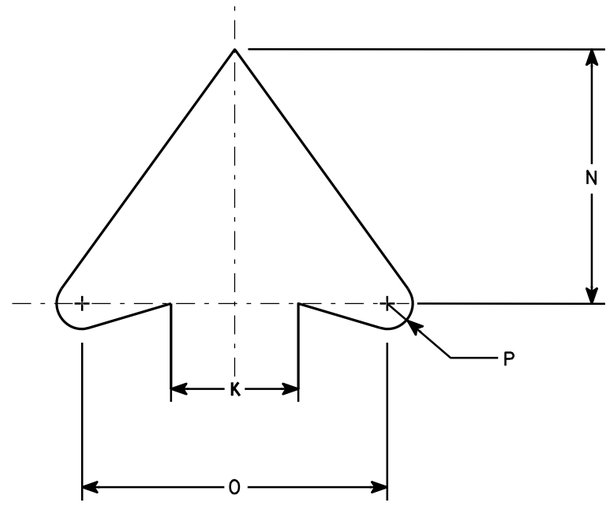
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 848	E



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

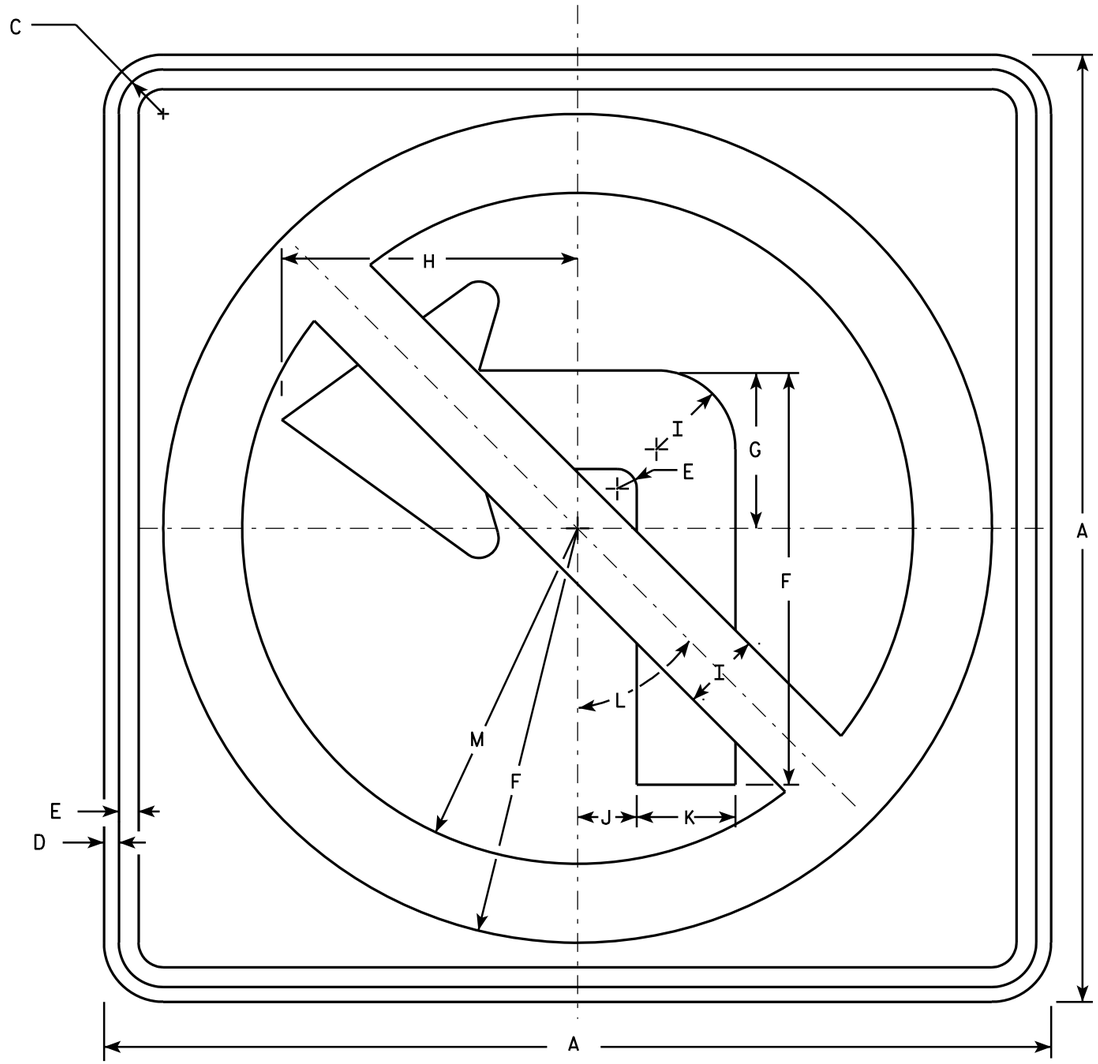
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

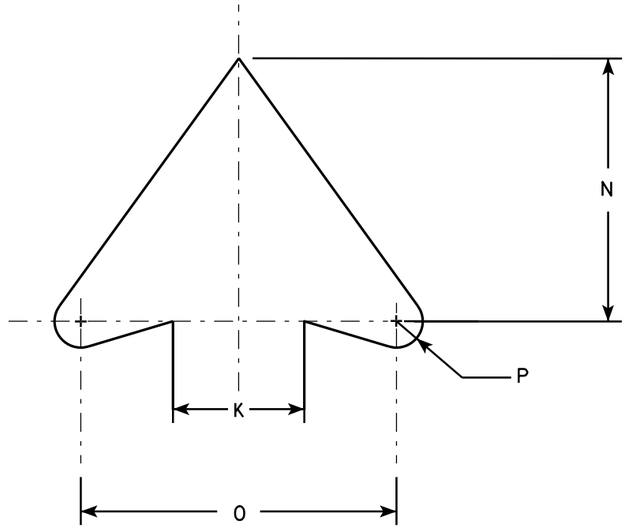
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 849	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

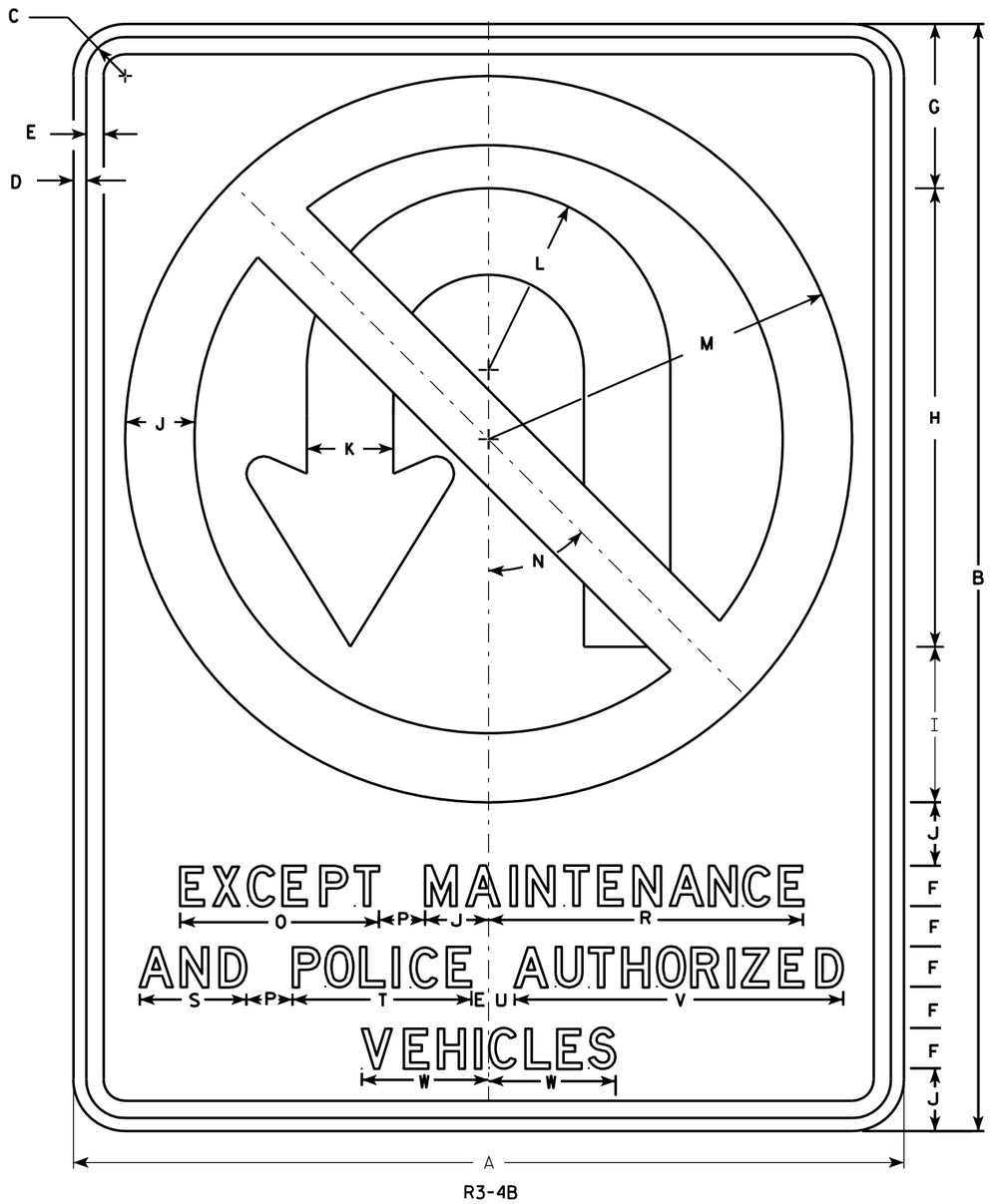
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

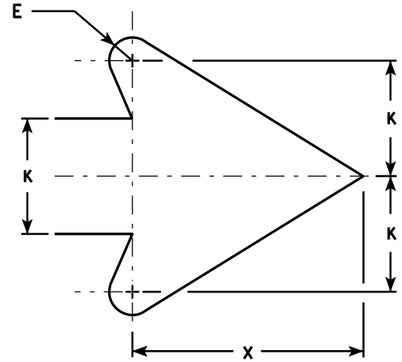
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 850	E



R3-4B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36	48	1 5/8	5/8	3/4	1 3/4	7 1/8	19 7/8	6 3/4	2 3/4	3 3/4	7 7/8	15 3/4	45°	8 5/8	2		13 5/8	4 5/8	7 3/4	1 1/8	14 1/4	5 1/2	7 5/8			12.0
5	36	48	1 5/8	5/8	3/4	1 3/4	7 1/8	19 7/8	6 3/4	2 3/4	3 3/4	7 7/8	15 3/4	45°	8 5/8	2		13 5/8	4 5/8	7 3/4	1 1/8	14 1/4	5 1/2	7 5/8			12.0

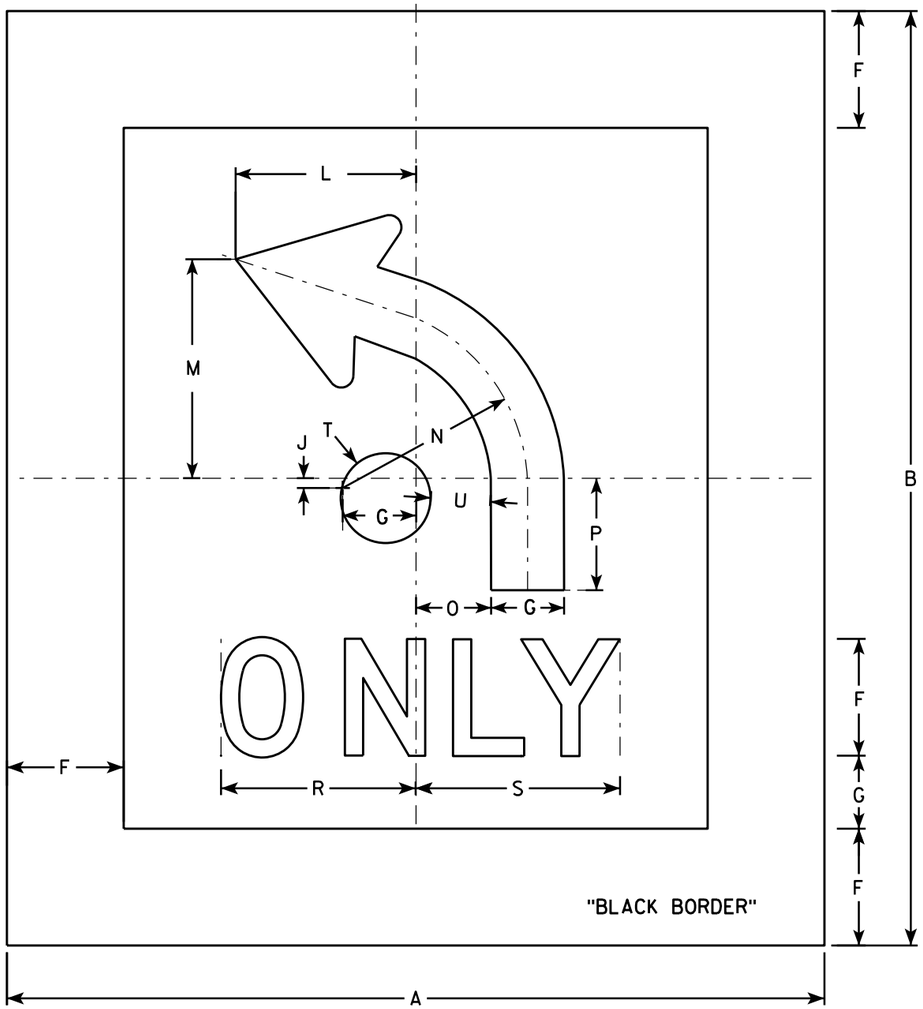
STANDARD SIGN
R3-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-4B.2

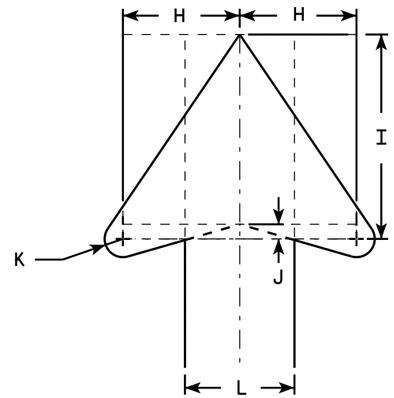
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 851	E



R3-5X

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48				6	3 3/4	4	7	1/2	5/8	9 1/4	11 1/4	9 1/2	3 7/8	5 3/4		10	10 1/2	4 1/2	3						14.0
2M	42	48				6	3 3/4	4	7	1/2	5/8	9 1/4	11 1/4	9 1/2	3 7/8	5 3/4		10	10 1/2	4 1/2	3						14.0
3																											
4																											
5																											

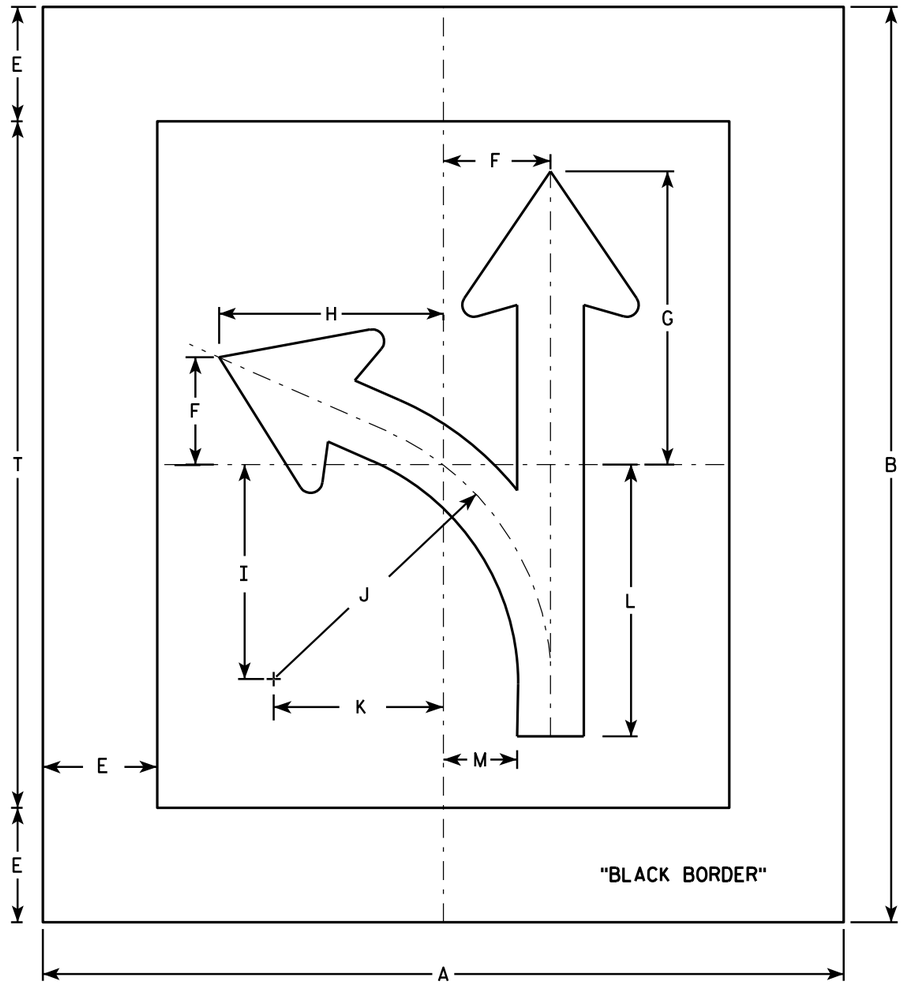
STANDARD SIGN
R3-5X

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 852 R3-5X.3

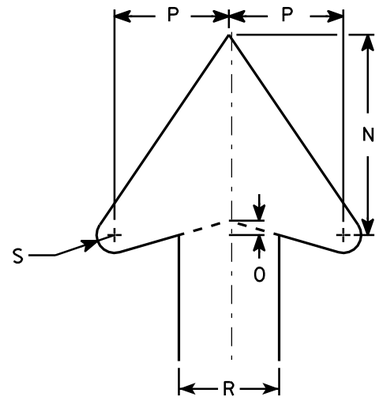
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



R3-6L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
4. R3-6R is the same as R3-6L except curved portion of arrow points right.
5. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
2M	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
3																											
4																											
5																											

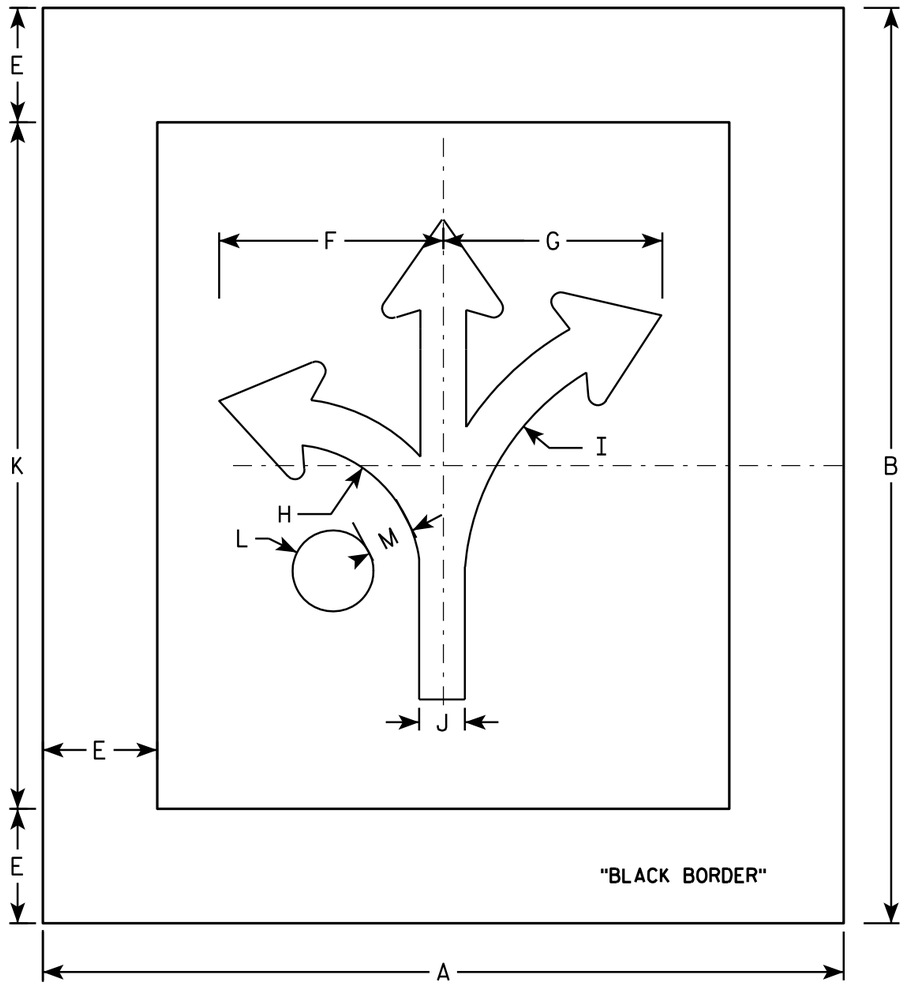
STANDARD SIGN
R3-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-6.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 853 | E



R3-6W

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. The 6" border is non-reflective black.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48			6	11 3/4	11 1/2	7	13 1/4	2 3/8	36	4 1/4	2 1/2														14.0
2M	42	48			6	11 3/4	11 1/2	7	13 1/4	2 3/8	36	4 1/4	2 1/2														14.0
3																											
4																											
5																											

STANDARD SIGN
R3-6W

WISCONSIN DEPT OF TRANSPORTATION

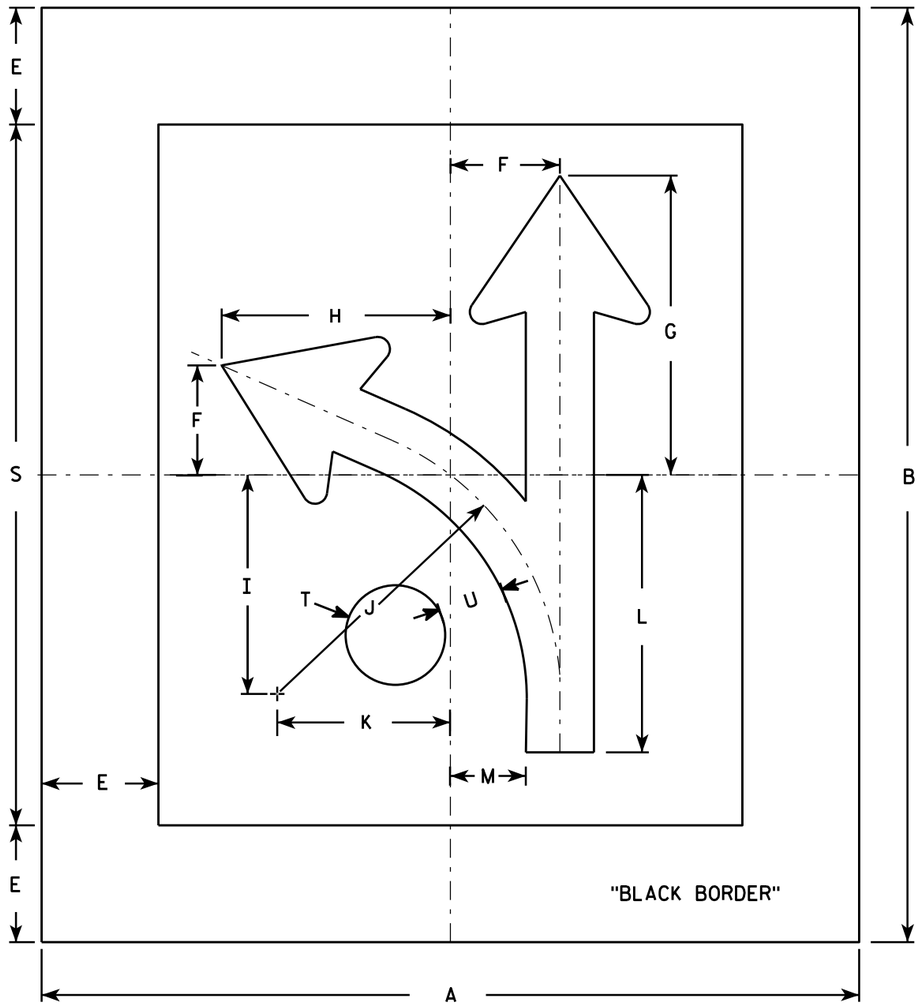
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-6W.2

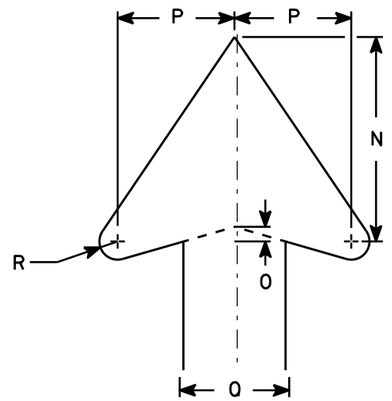
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 854	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
4. The 6" border is non-reflective black.



R3-6X



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4	3 1/2	5/8	36	5	3 1/2						14.0
2M	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4	3 1/2	5/8	36	5	3 1/2						14.0
3																											
4																											
5																											

STANDARD SIGN
R3-6X

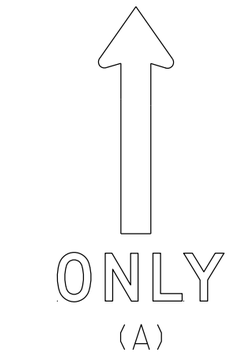
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE R3-6X.3

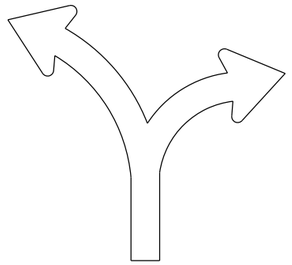
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

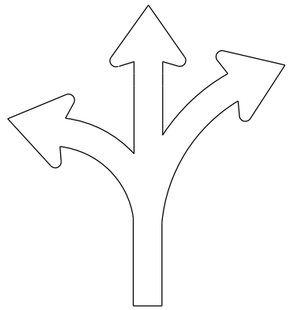
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R36X.DGN PLOT DATE : 05-FEB-2015 14:49 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.783368:1.000000
WISDOT/CADDS SHEET 42

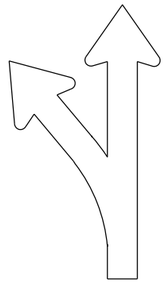


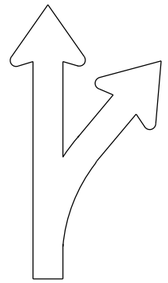
(A)

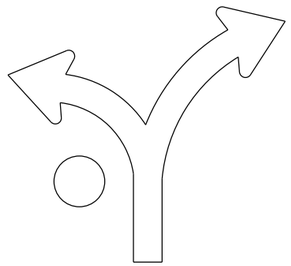
(B)

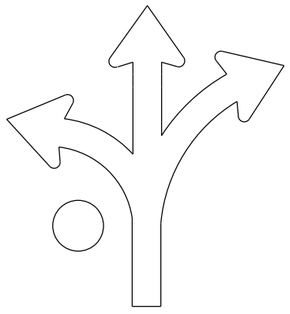

(C)

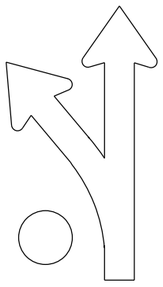

(D)


(E)

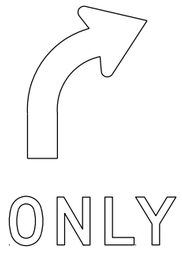

(F)


(G)

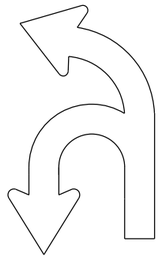

(H)


(I)

(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1 Letter =	3.75 sq ft	for Size 2
	6.0 sq ft	for Size 3
	10.0 sq ft	for Size 4 or 5
2 Letters =	7.5 sq ft	for Size 2
	12.0 sq ft	for Size 3
	20.0 sq ft	for Size 4 or 5
3 Letters =	11.25 sq ft	for Size 2
	18.0 sq ft	for Size 3
	30.0 sq ft	for Size 4 or 5
4 Letters =	15.0 sq ft	for Size 2
	24.0 sq ft	for Size 3
	40.0 sq ft	for Size 4 or 5
5 Letters =	18.75 sq ft	for Size 2
	30.0 sq ft	for Size 3
	50.0 sq ft	for Size 4 or 5
6 Letters =	22.5 sq ft	for Size 2
	36.0 sq ft	for Size 3
	60.0 sq ft	for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

7

7

PROJECT NO:

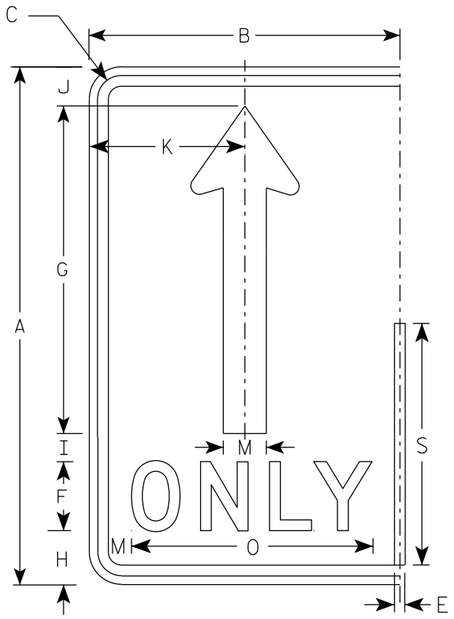
SHEET NO: 856 E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:37 PLOT BY : mscj9h PLOT NAME :

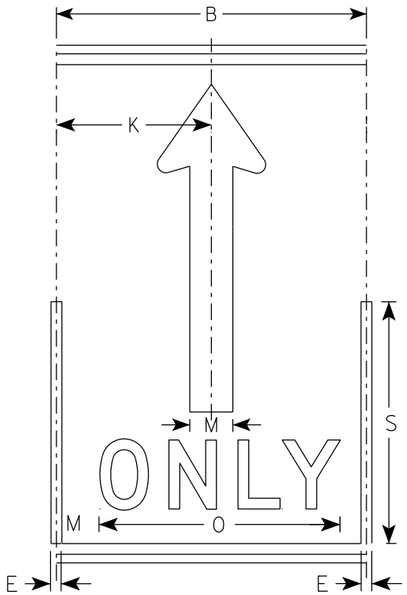
WISDOT/CADDS SHEET 42

NOTES

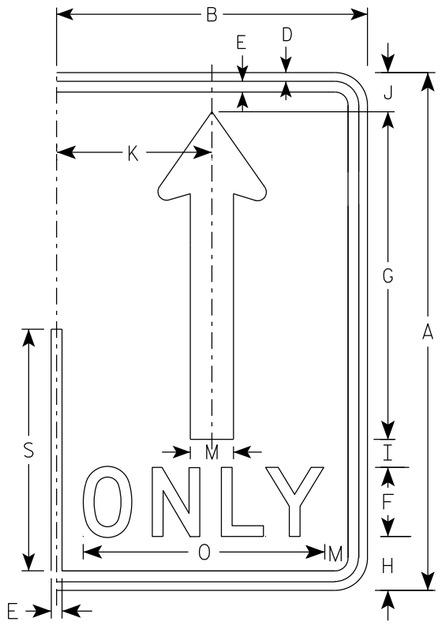
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



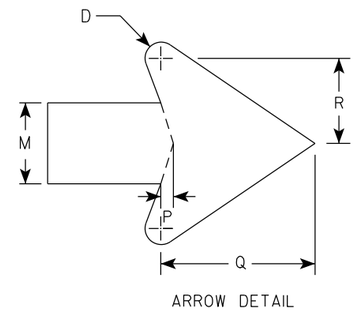
(A)



(A)



(A)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

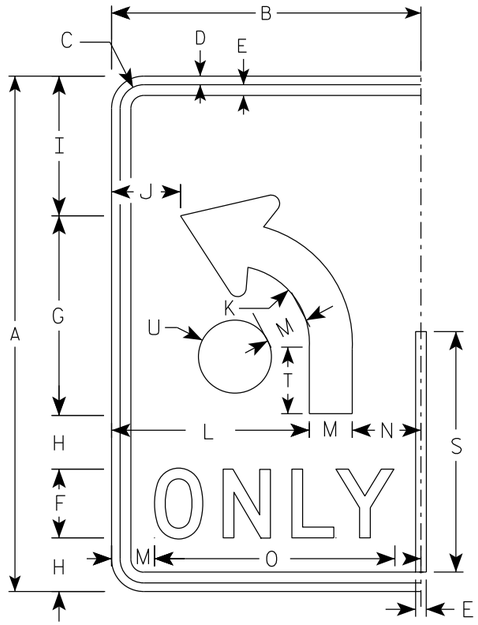
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

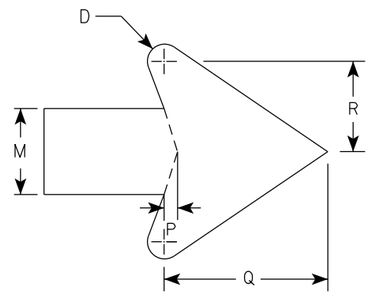
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 857	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

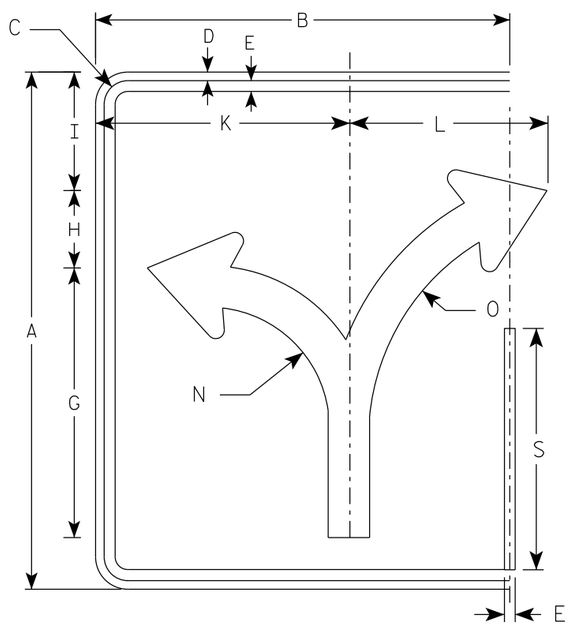
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

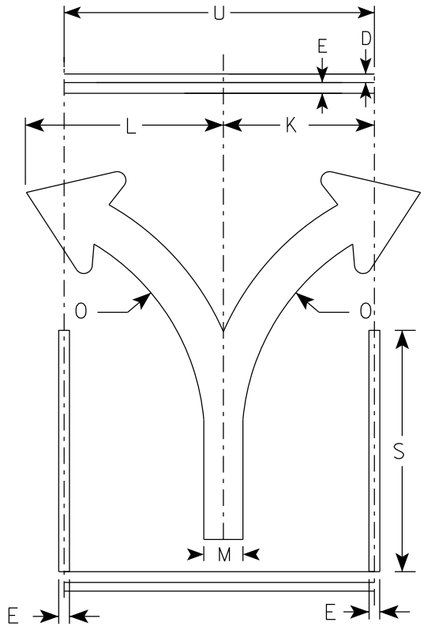
SHEET NO: 858 E

NOTES

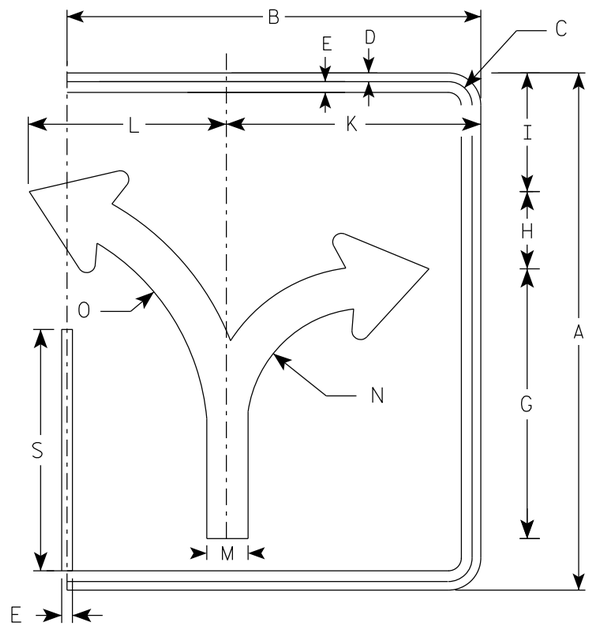
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



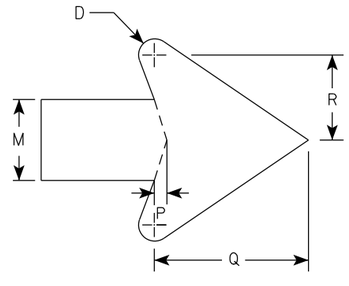
(C)



(C)



(C)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

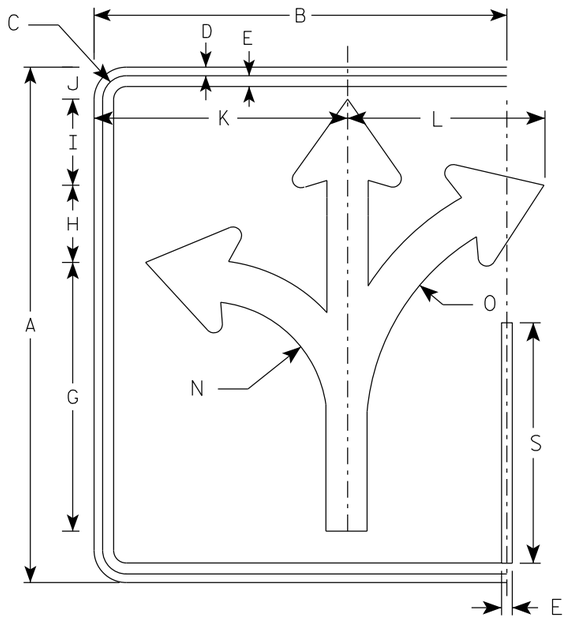
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

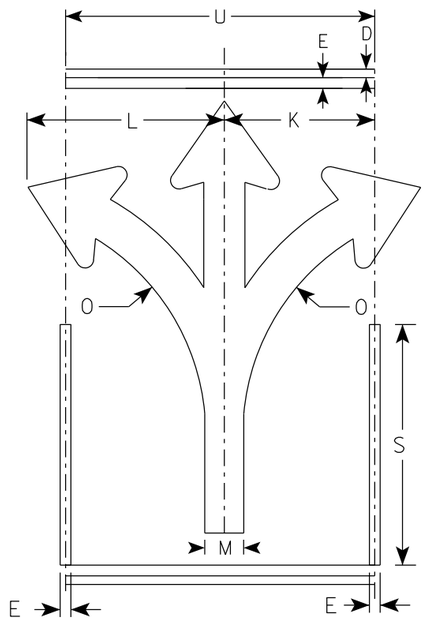
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 859 | E

NOTES

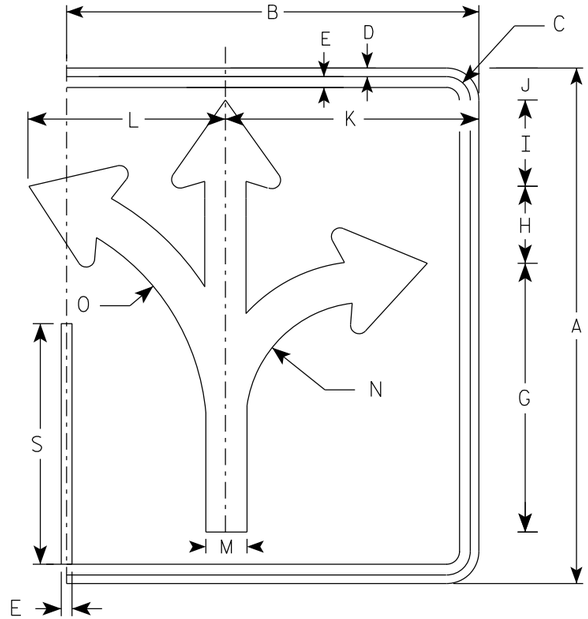
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



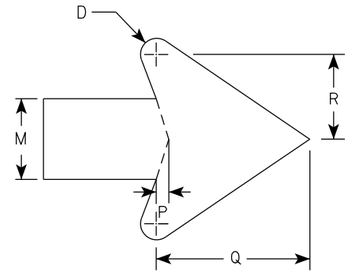
(D)



(D)



(D)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

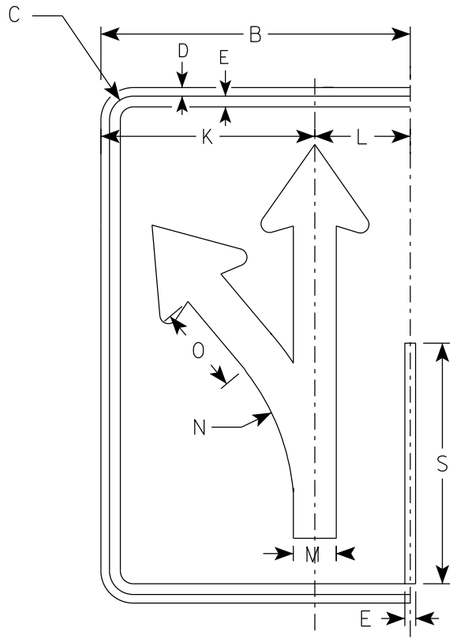
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

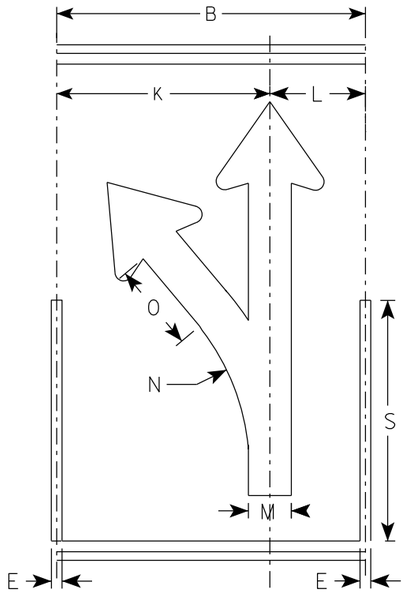
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 860 | E

NOTES

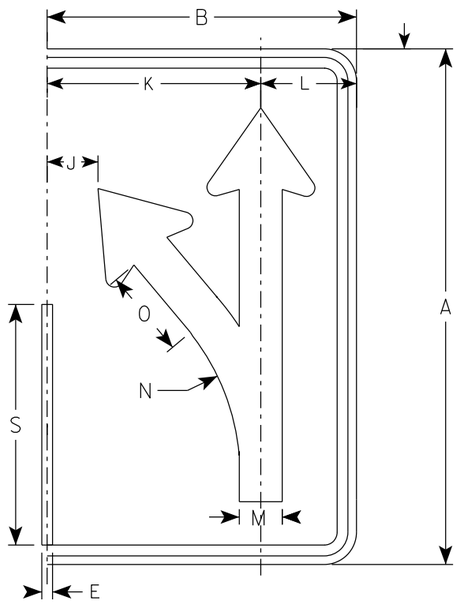
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



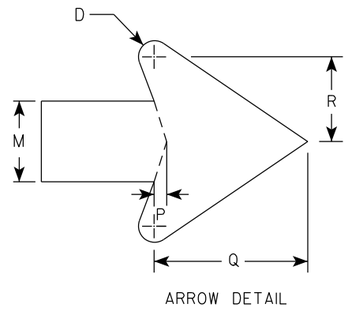
(E)



(E)



(E)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

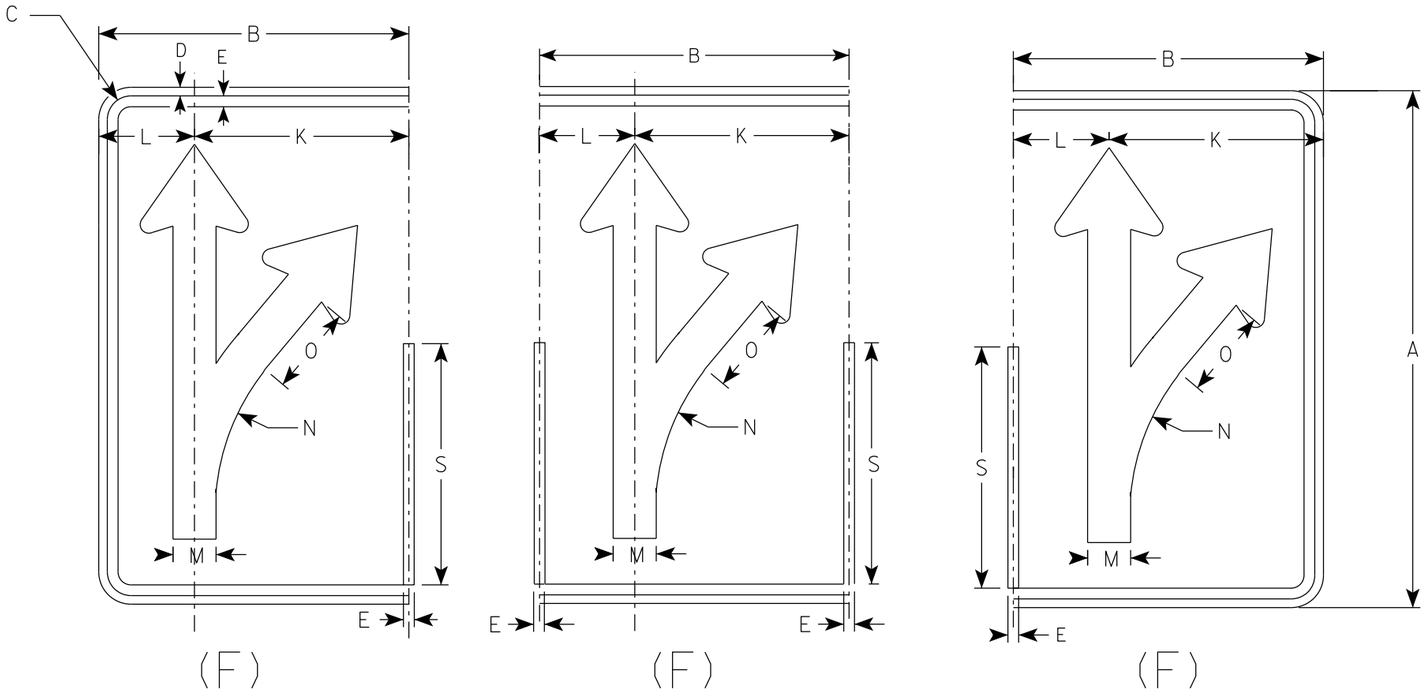
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

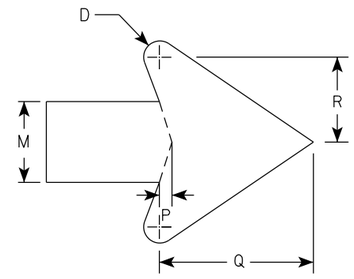
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 861 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(F) (F) (F)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

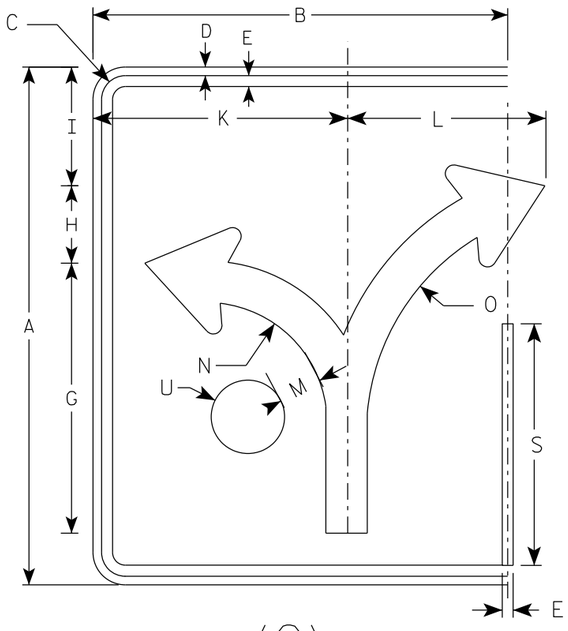
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

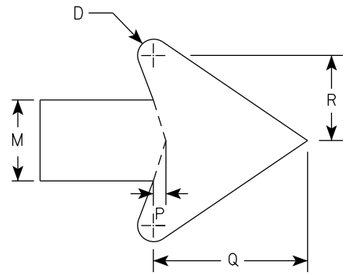
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 862 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

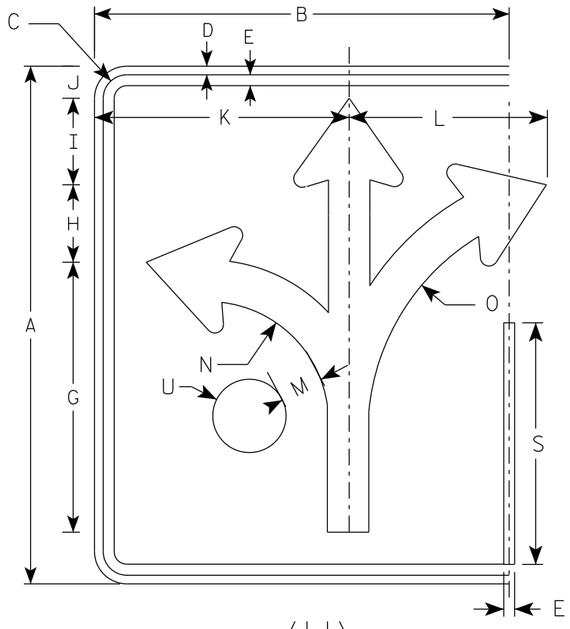
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

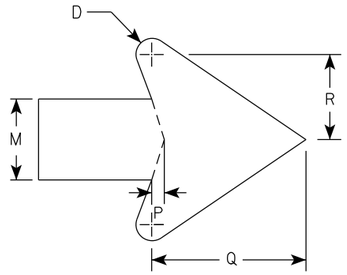
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 863 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

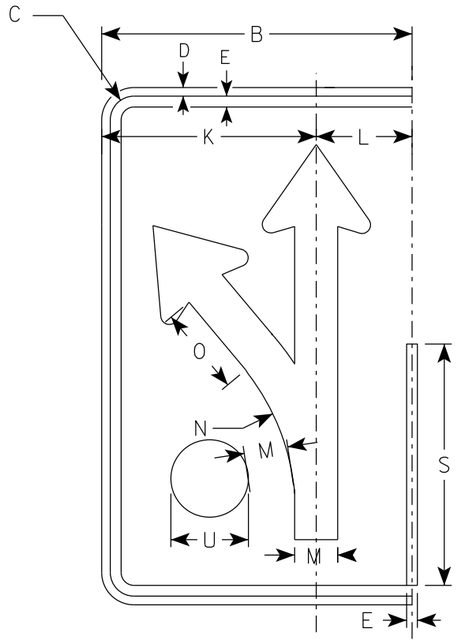
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

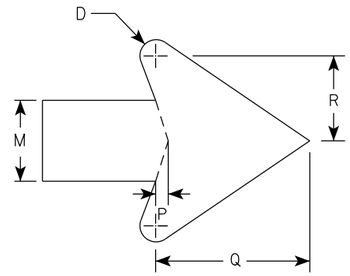
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 864	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

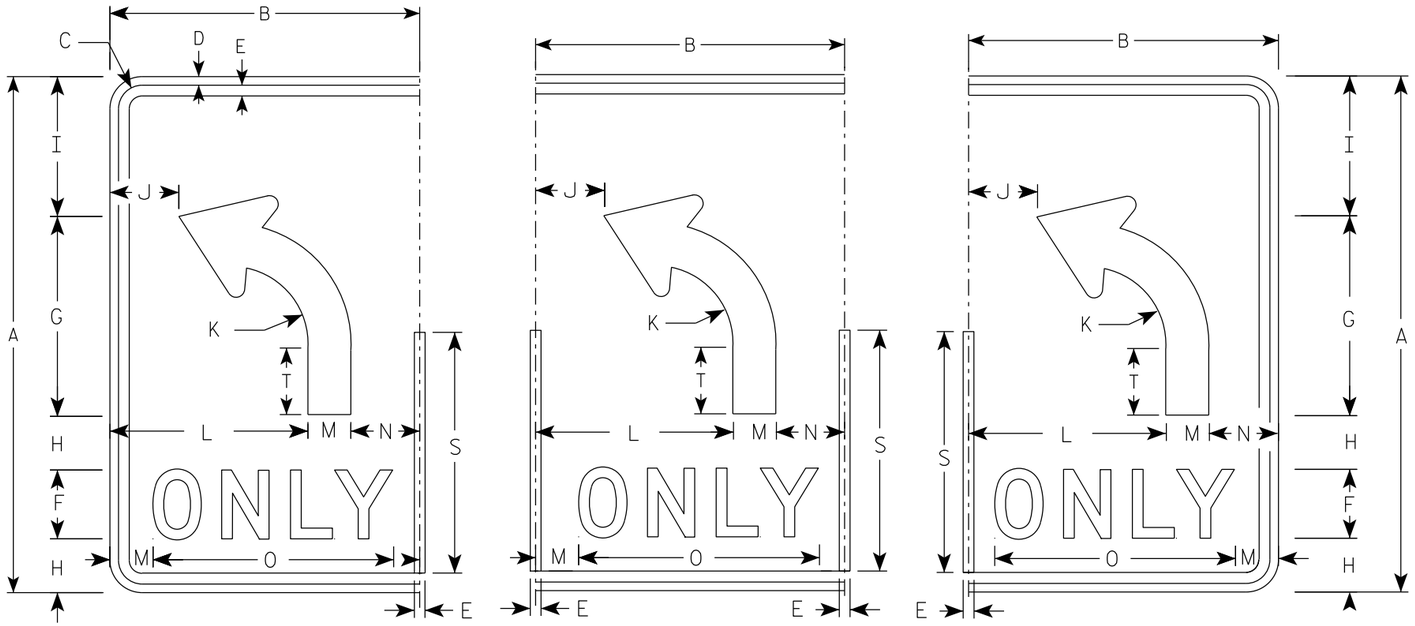
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

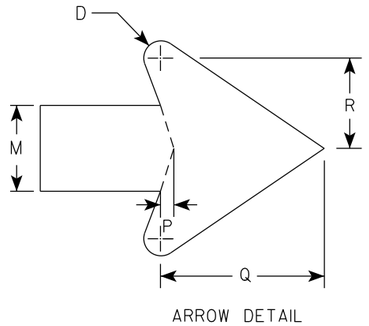
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 865 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



(L) (L) (L)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

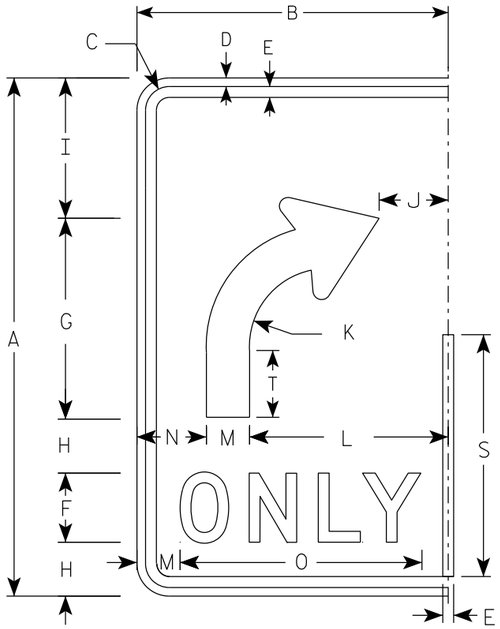
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

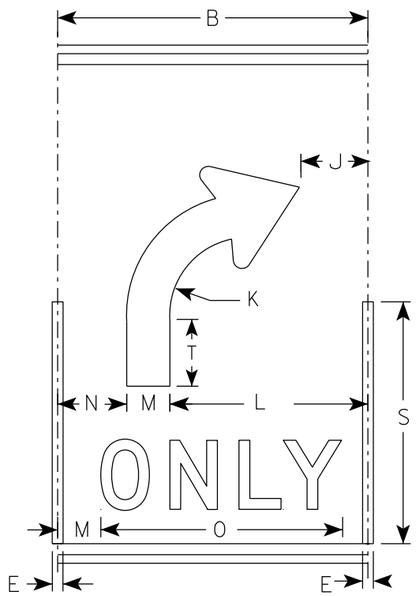
SHEET NO: 866 E

NOTES

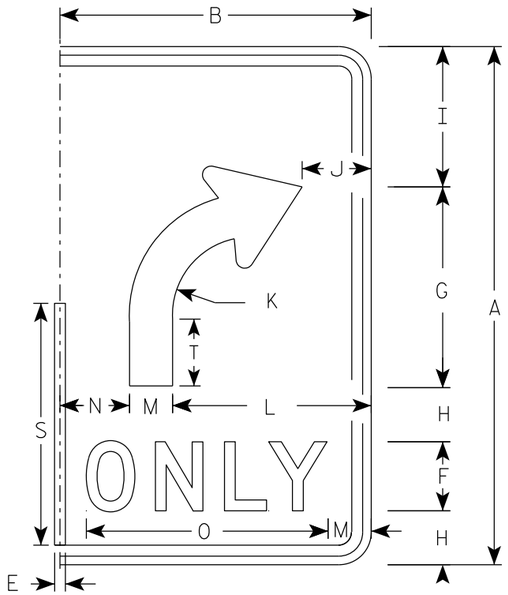
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



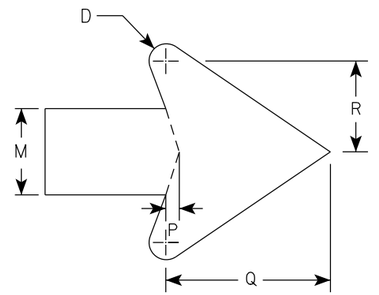
(R)



(R)



(R)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN
R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

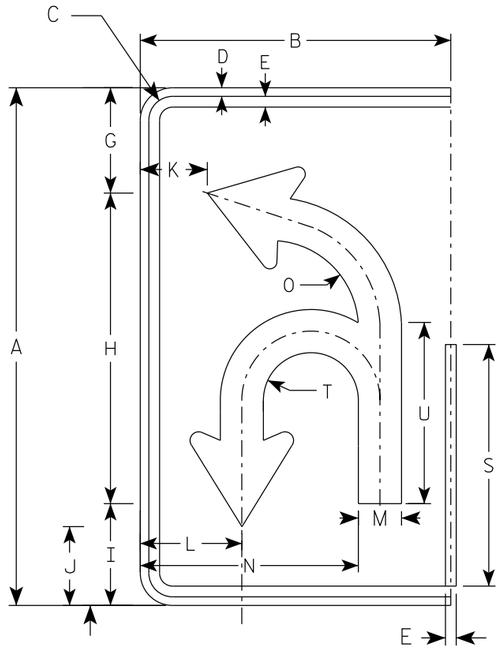
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

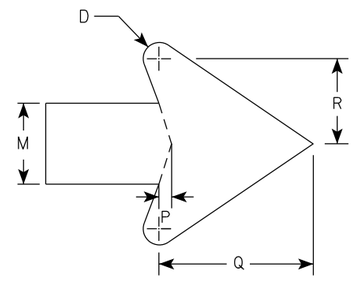
SHEET NO: 867 **E**

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

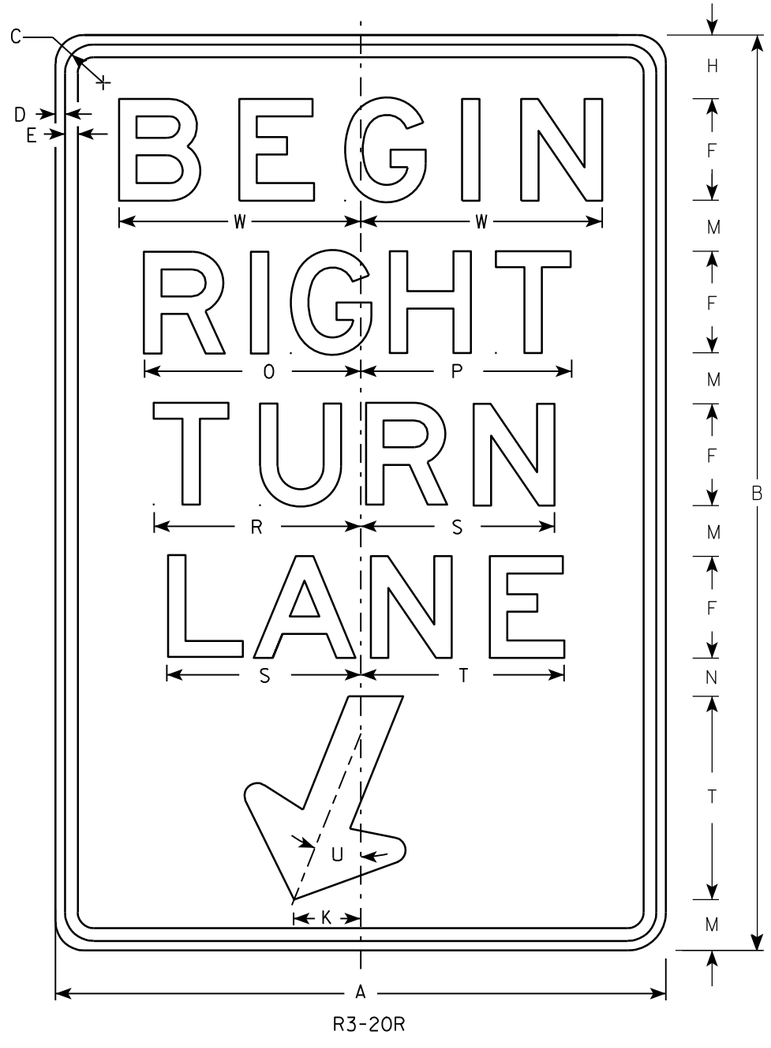
STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

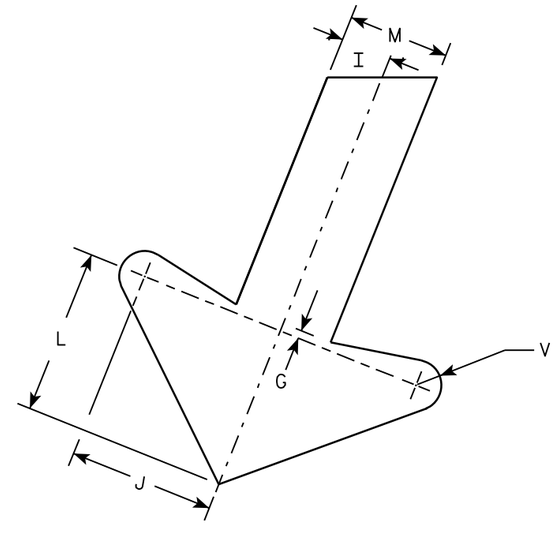
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 868 | E



R3-20R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

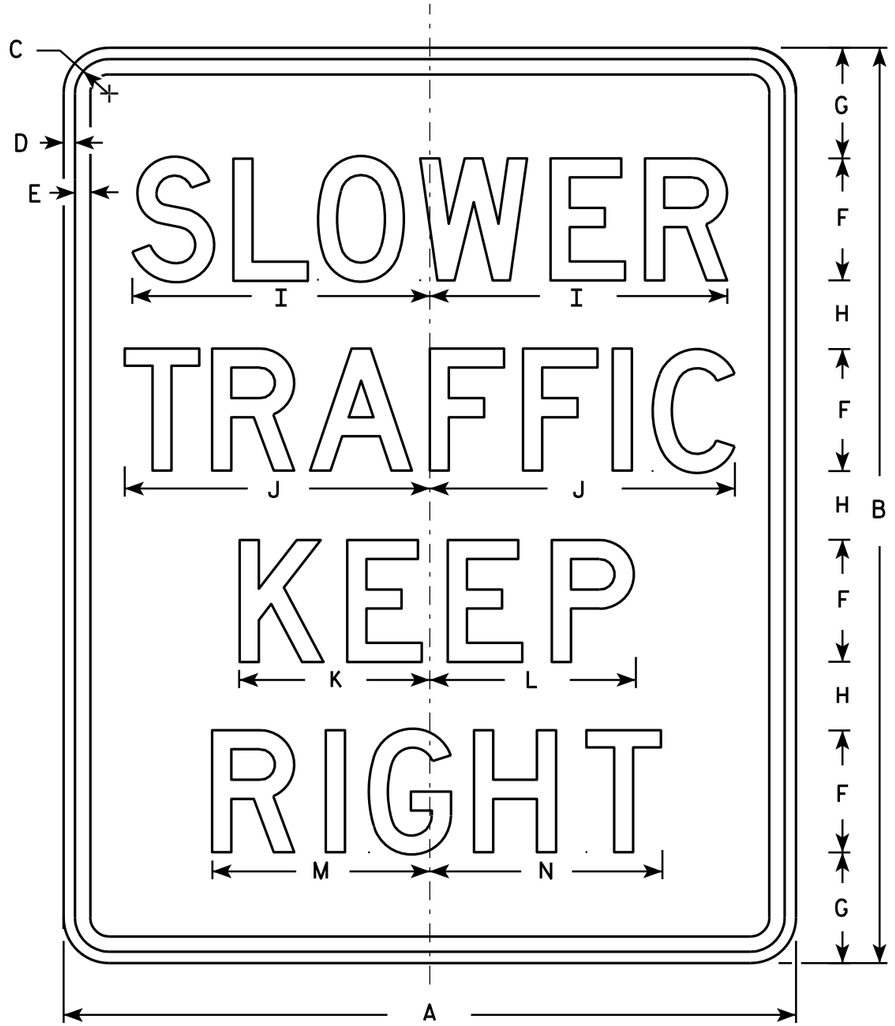
STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 869 | E



R4-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
3	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
4	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/2	20	12 1/2	13 1/2	14 1/4	15 1/4													20.0

STANDARD SIGN
R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

PROJECT NO:

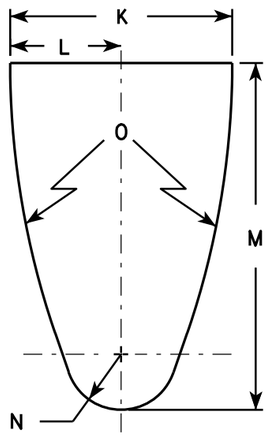
SHEET NO: 870 E

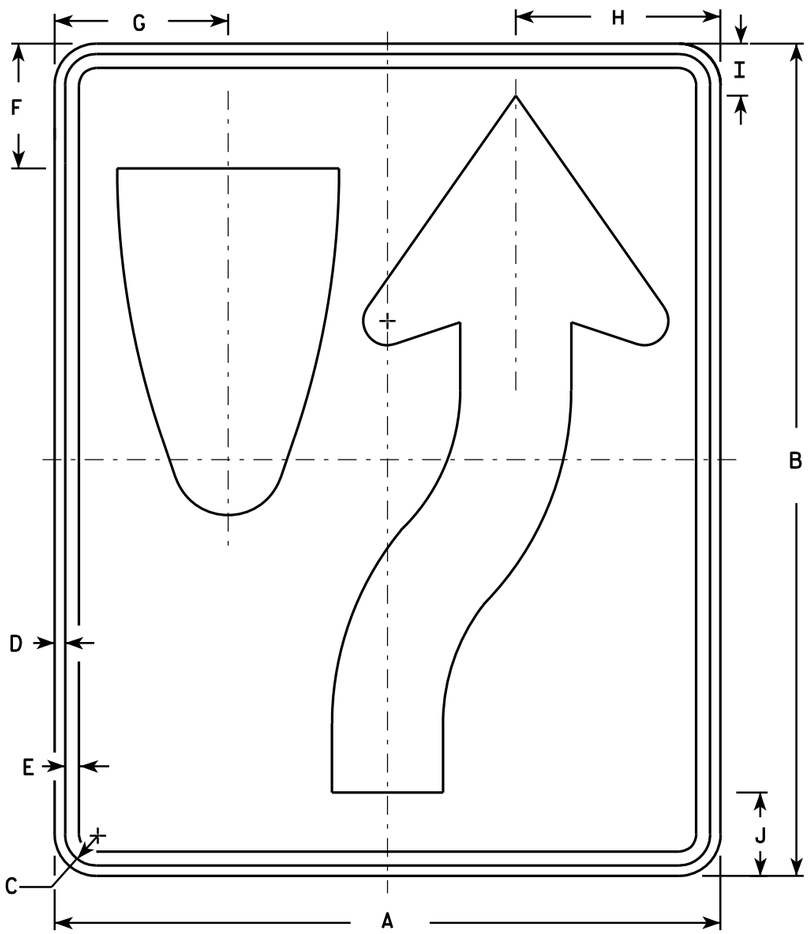
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R43.DGN PLOT DATE : 25-MAR-2011 13:40 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7

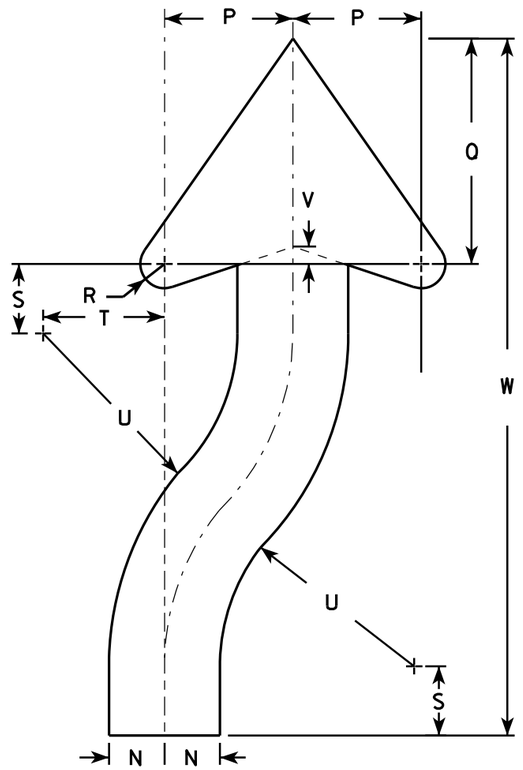




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

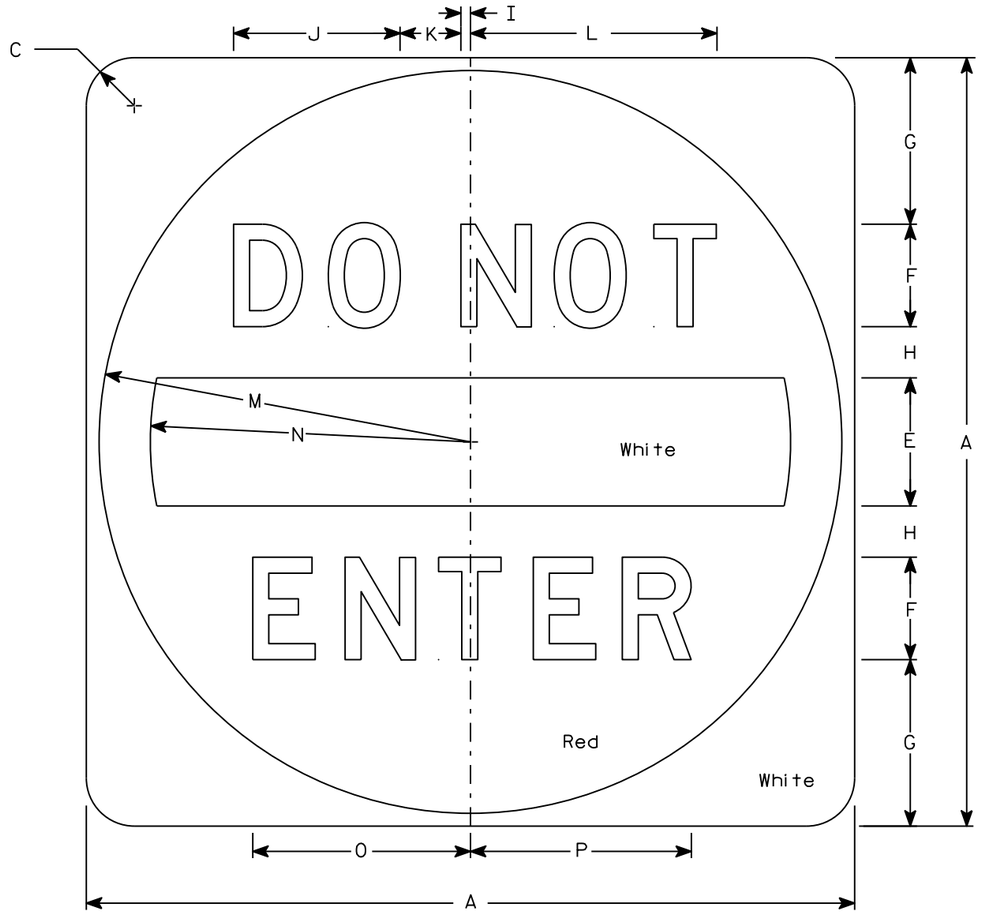
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 871	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

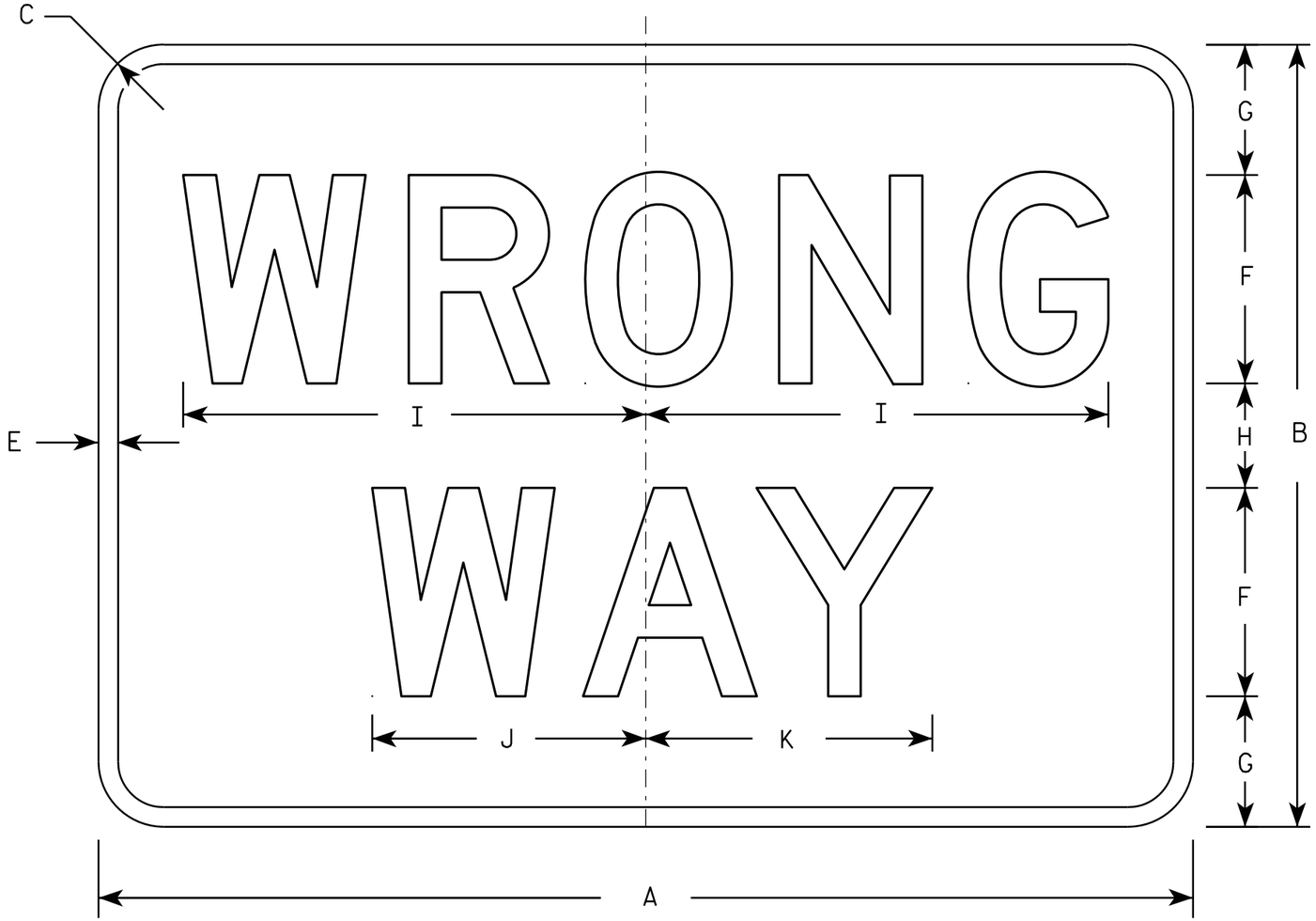
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 872 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 873	E

R5-57

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Lines 1, 2, and 5 are Series C.
   Lines 3 and 4 are Series B.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0
5	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0

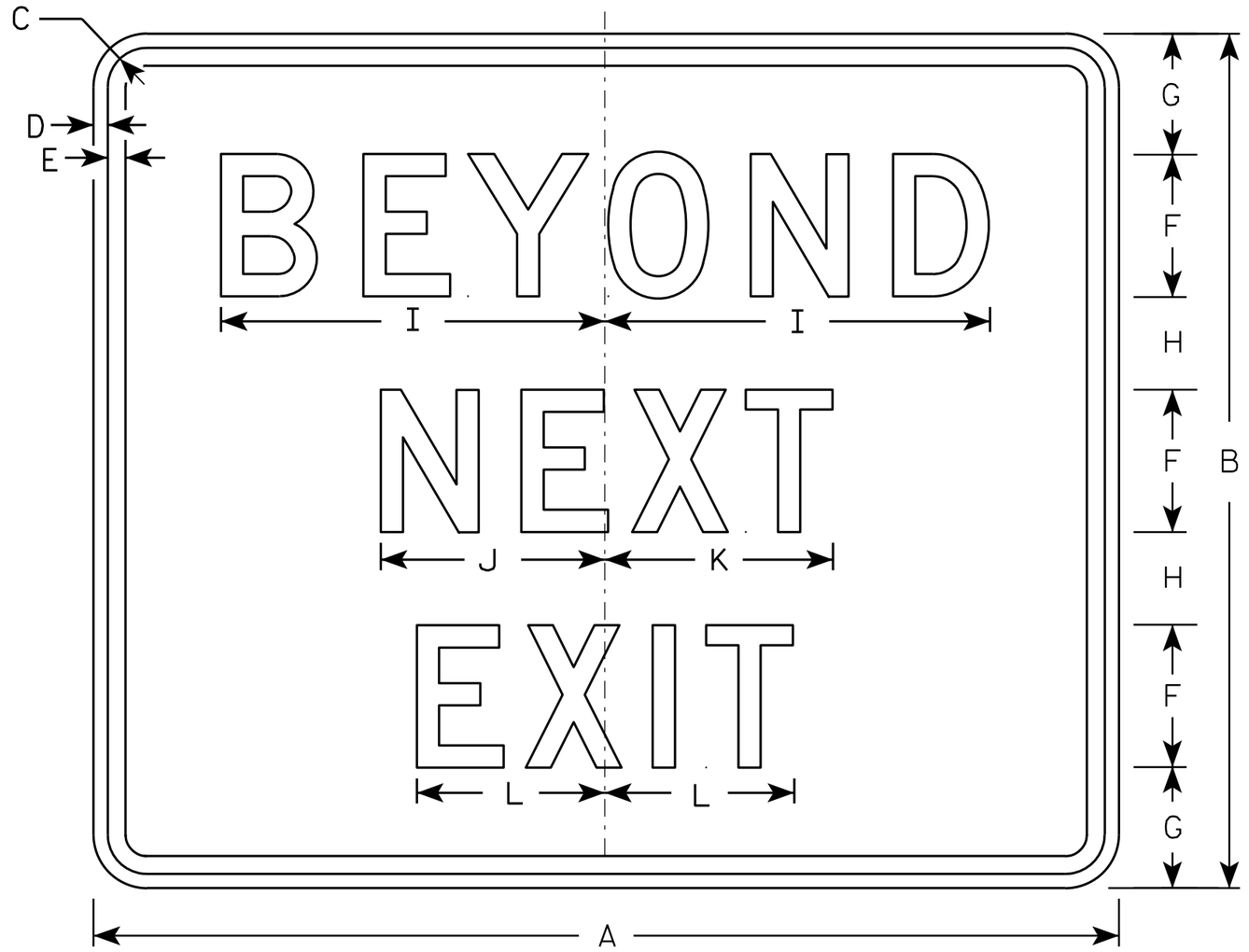
STANDARD SIGN
R5-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-57.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 874 | E



R5-57B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	30	1 3/8	1/2	5/8	5	4 1/4	3 1/4	13 1/2	7 7/8	8	6 5/8															7.5
2M	36	30	1 3/8	1/2	5/8	5	4 1/4	3 1/4	13 1/2	7 7/8	8	6 5/8															7.5
3																											
4																											
5																											

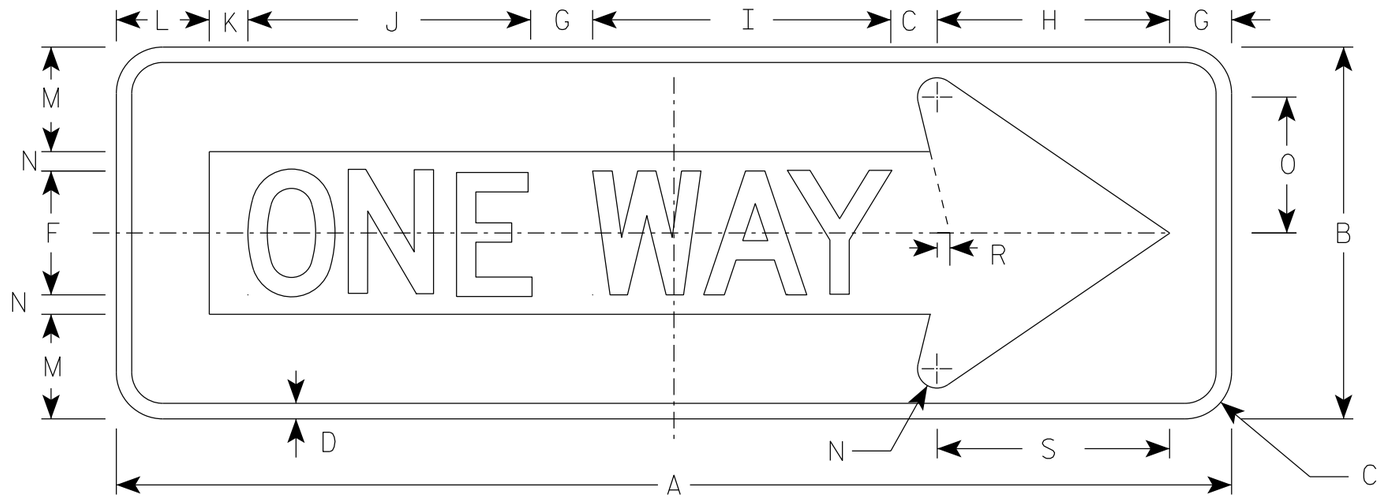
STANDARD SIGN
R5-57B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-57B.5

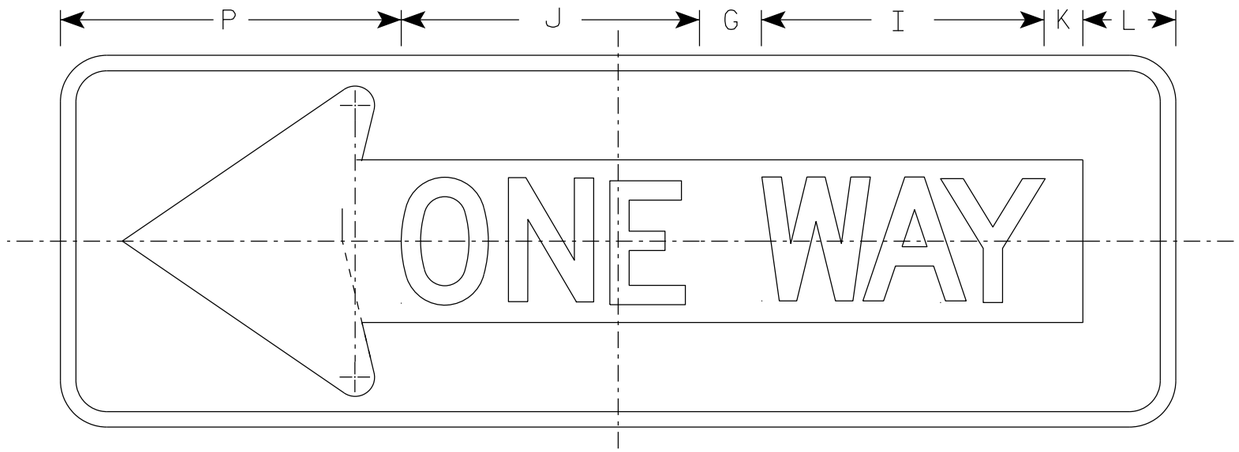
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 875 | E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

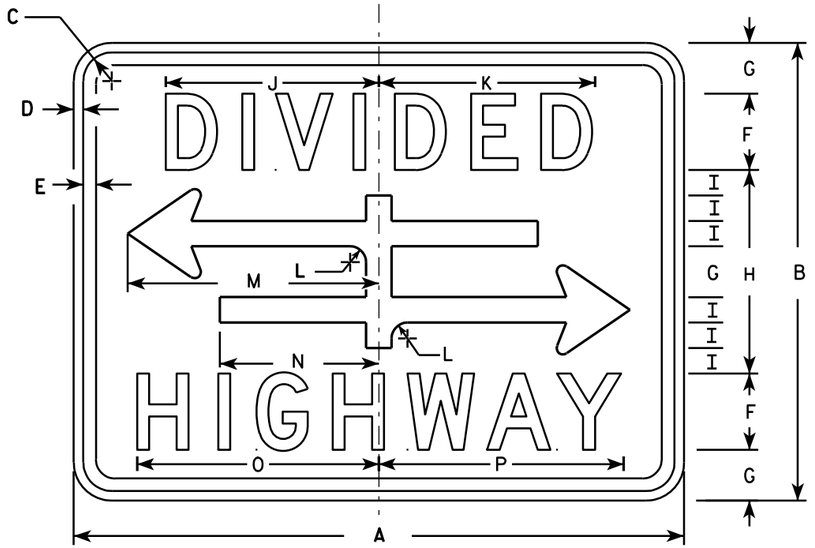
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

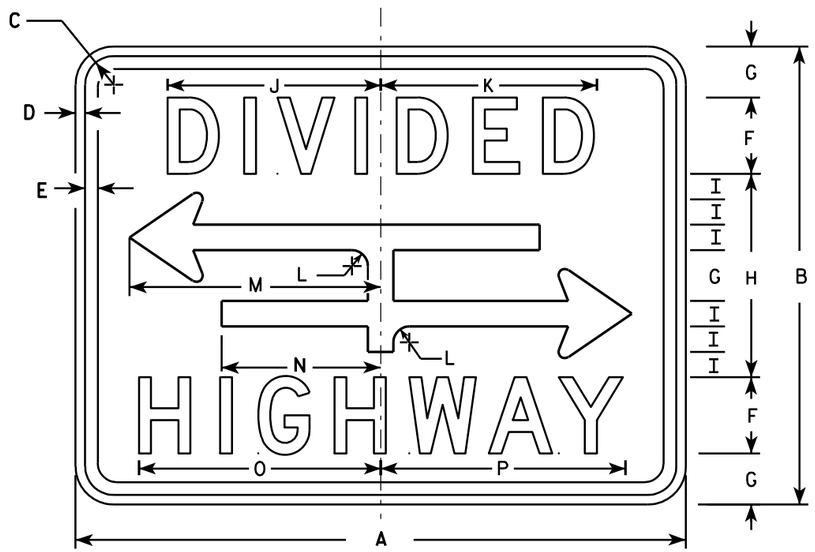
SHEET NO: 876 E



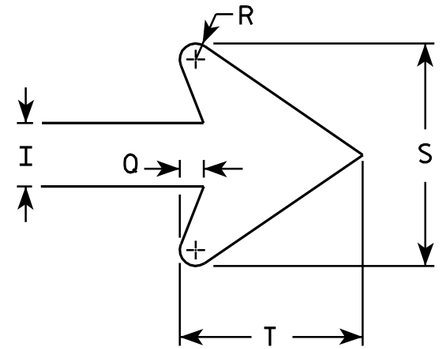
R6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-3A



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

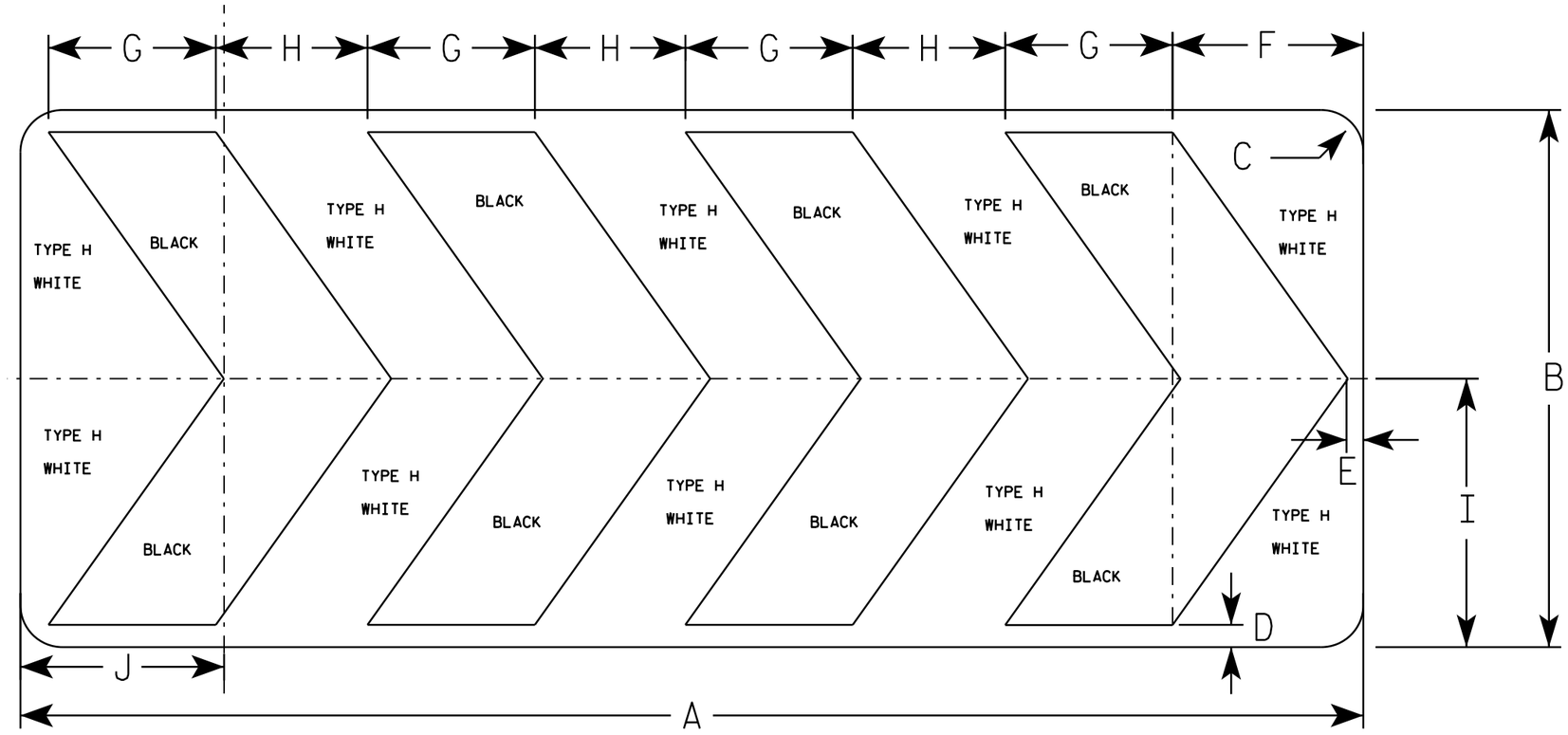
DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

SHEET NO: 877 E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

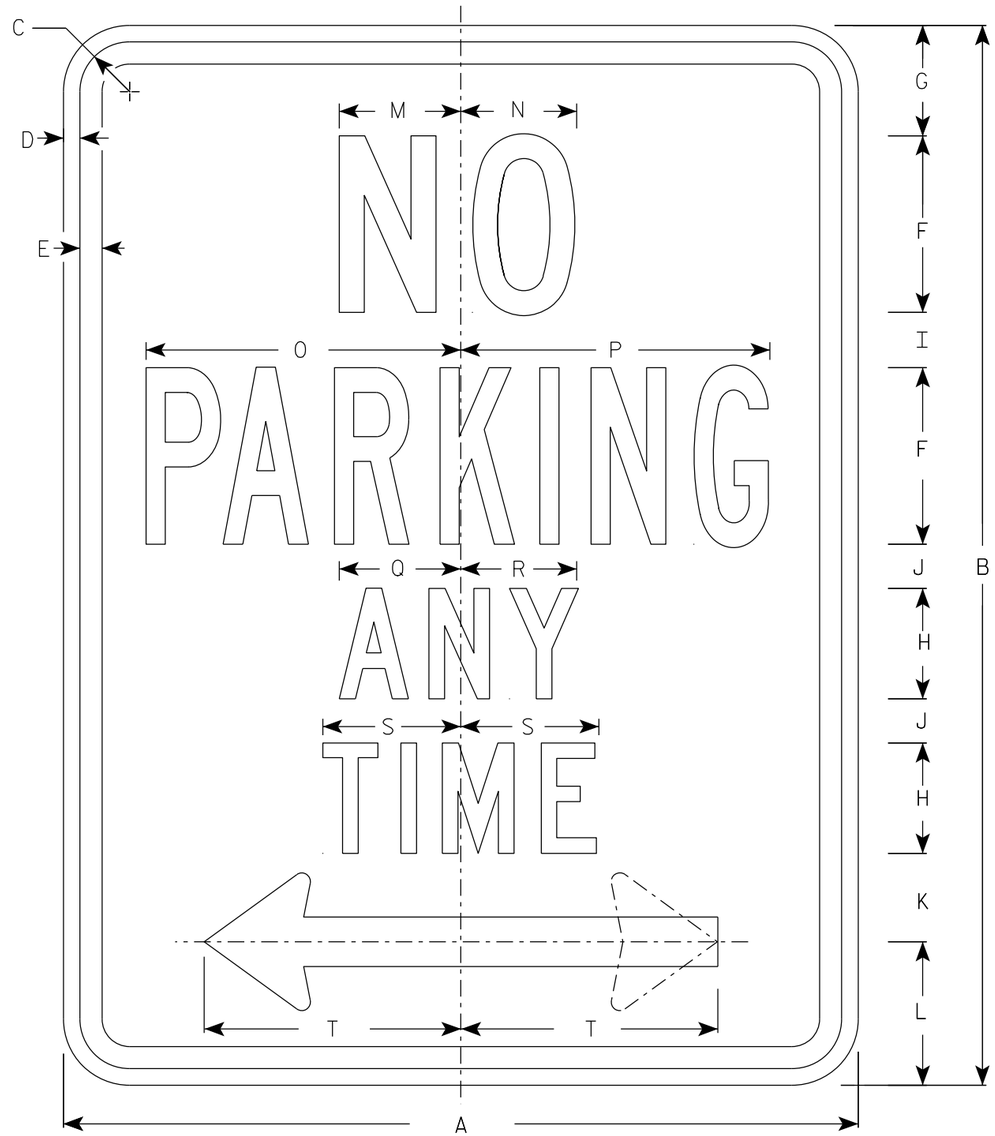
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

PROJECT NO: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R64B.DGN PLOT DATE : 21-AUG-2014 15:01 PLOT BY : mscsja

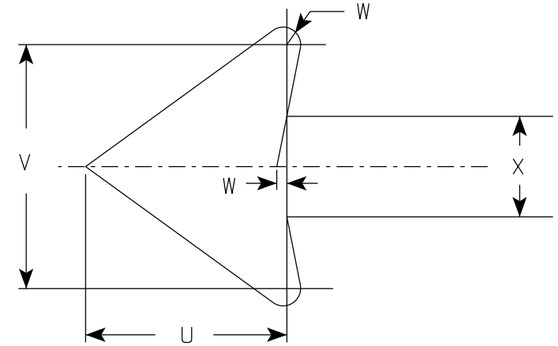
WISDOT/CADDS SHEET 42



R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

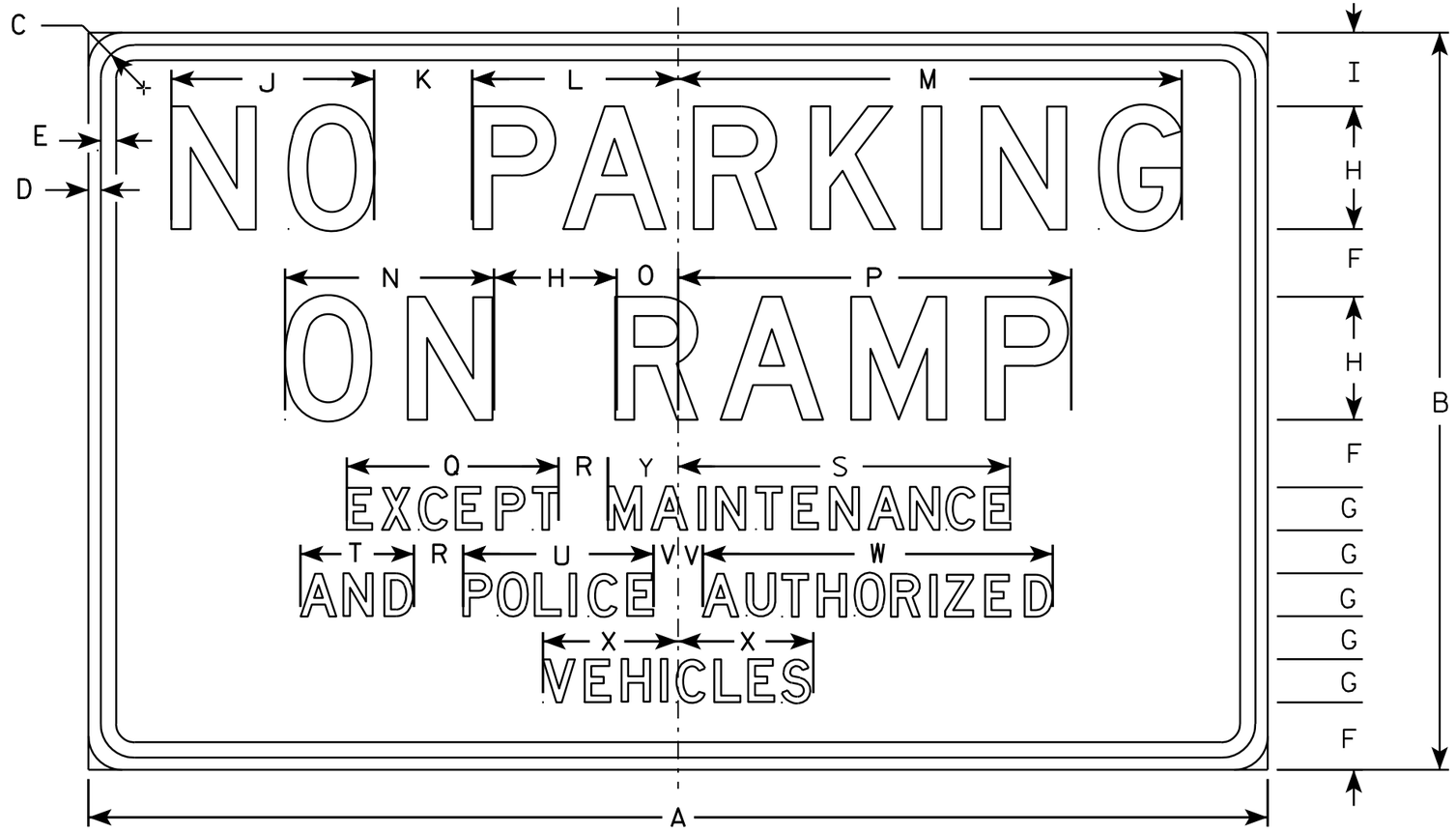
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. R7-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 879 E

7

7



R7-64

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - Lines 1& 2 and Border are RED
   Lines 3, 4, & 5 are BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3	48	30	1 3/8	1/2	5/8	2 3/4	1 3/4	5	3	8 1/4	4	8 3/8	20 1/2	8 1/2	2 1/2	16	8 5/8	2	13 5/8	4 5/8	7 3/4	1	14 1/4	5 1/2			10.0
4																											
5																											

STANDARD SIGN
R7-64

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-64.3

PROJECT NO:

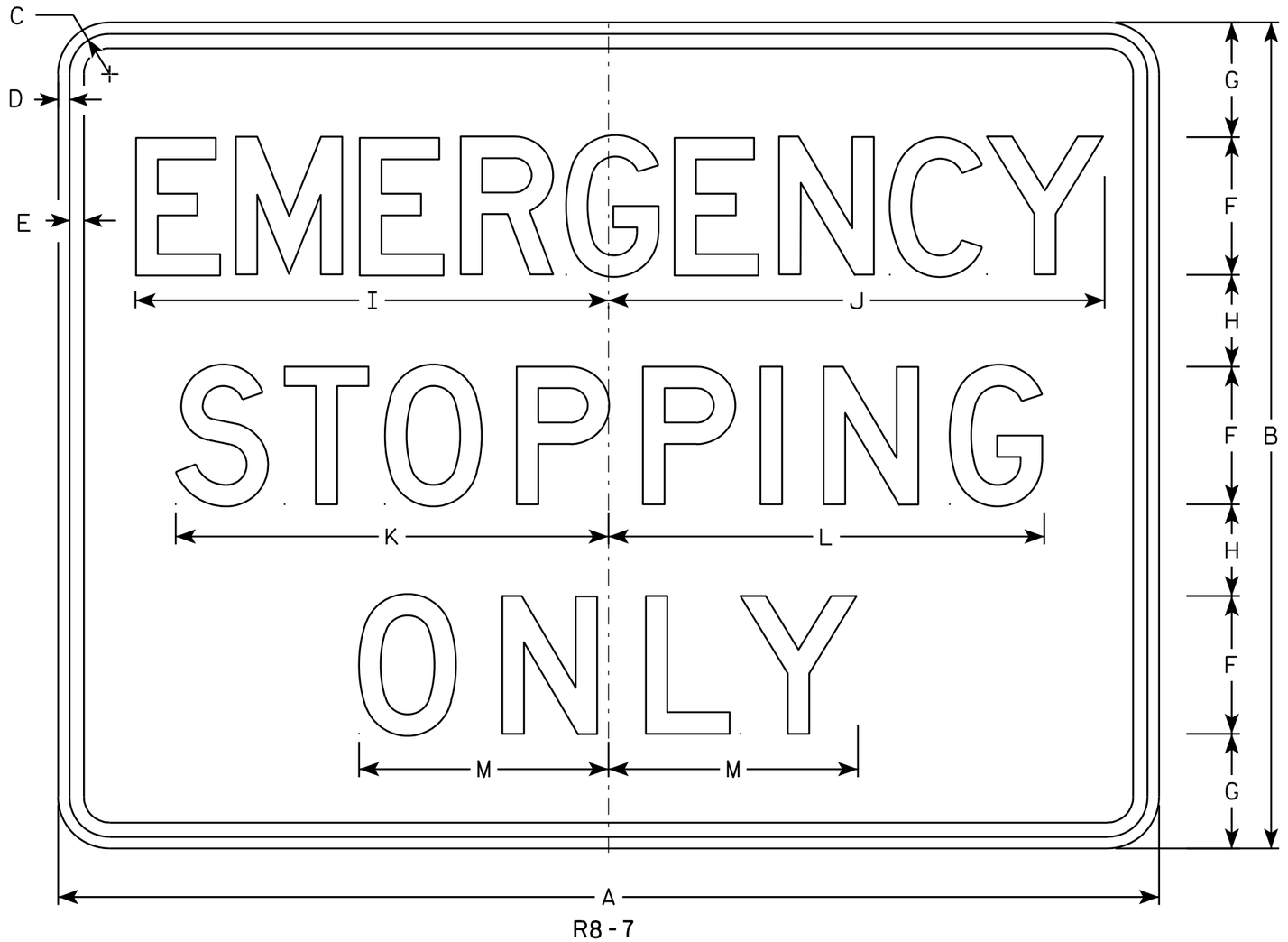
SHEET NO: 880 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R764.DGN PLOT DATE : 31-MAR-2011 13:47 PLOT BY : mscsja PLOT SCALE :

WISDOT/CADDS SHEET 42

7

7



R8 - 7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	48	36	1 3/4	1/2	5/8	6	5	4	20 5/8	21 5/8	18 7/8	19	10 7/8														12.0
5	48	36	1 3/4	1/2	5/8	6	5	4	20 5/8	21 5/8	18 7/8	19	10 7/8														12.0

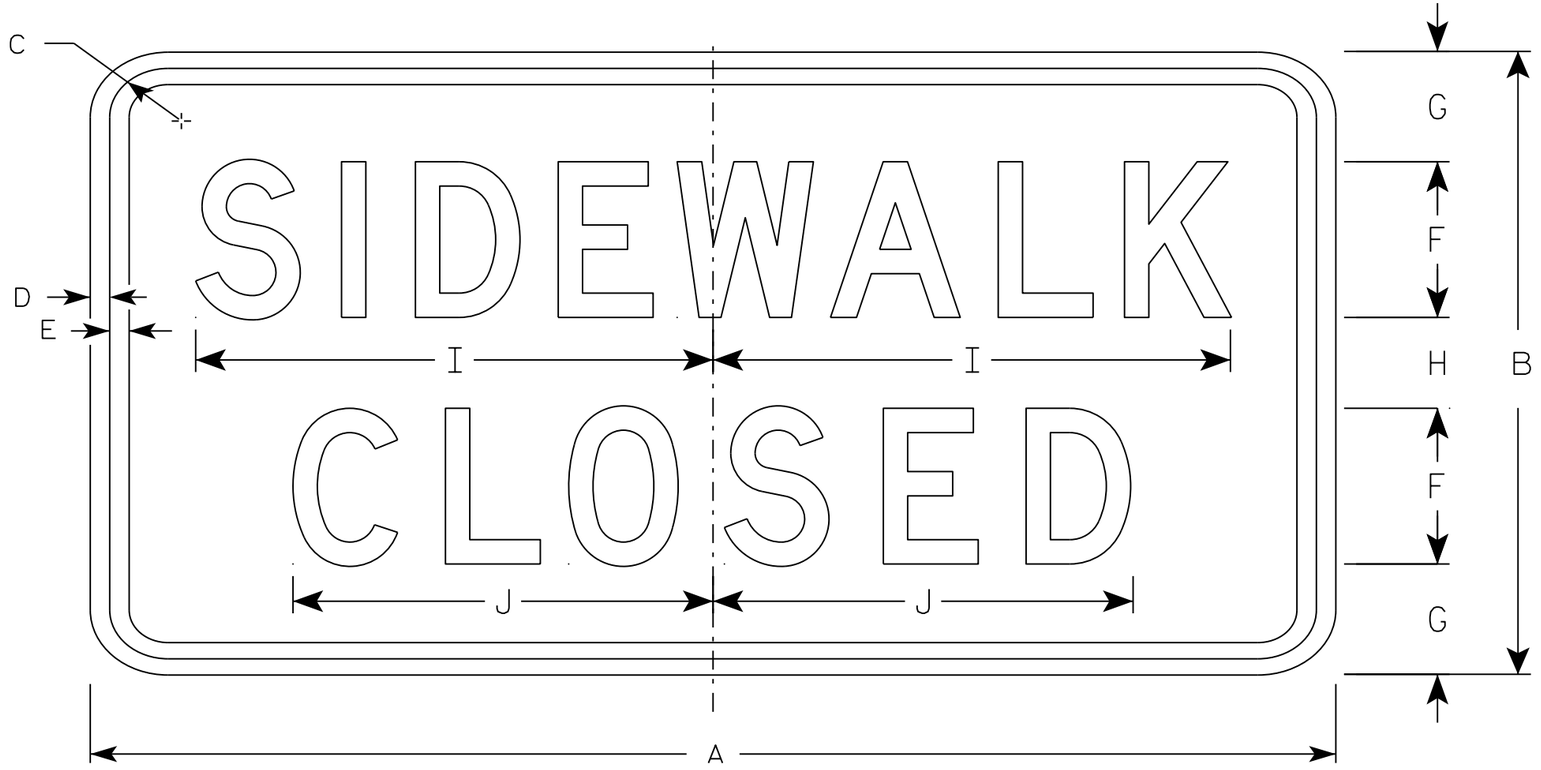
STANDARD SIGN
R8 - 7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R8-7.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 881 | E



R9-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

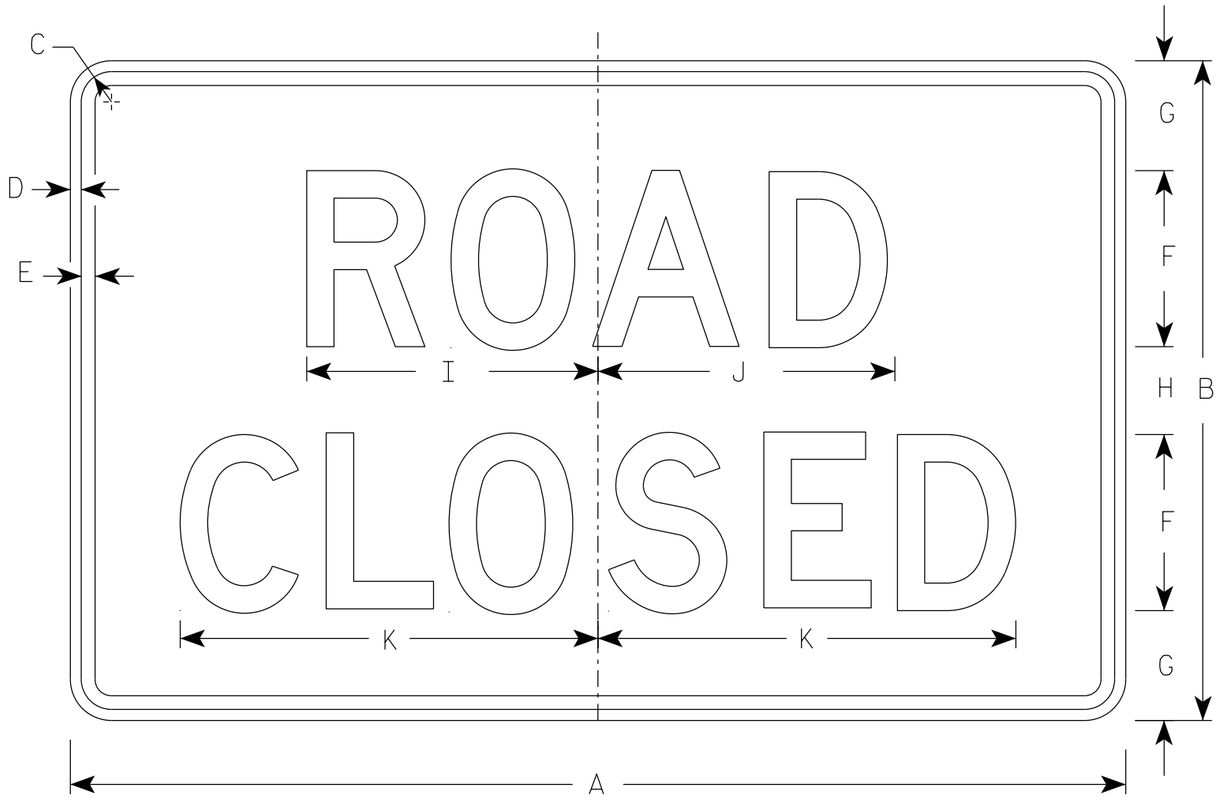
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE 882 R9-9.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

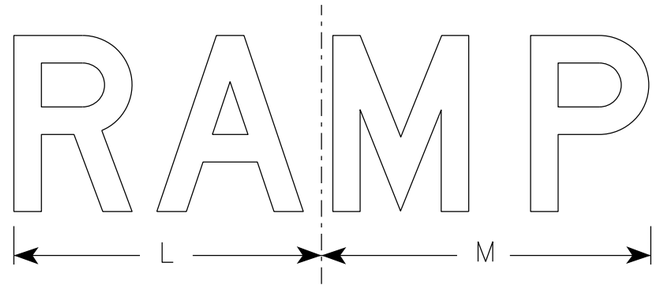
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



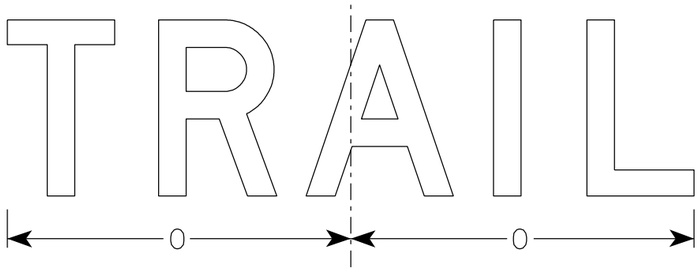
R11-2

NOTES

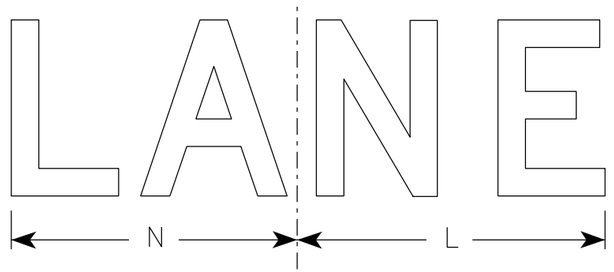
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

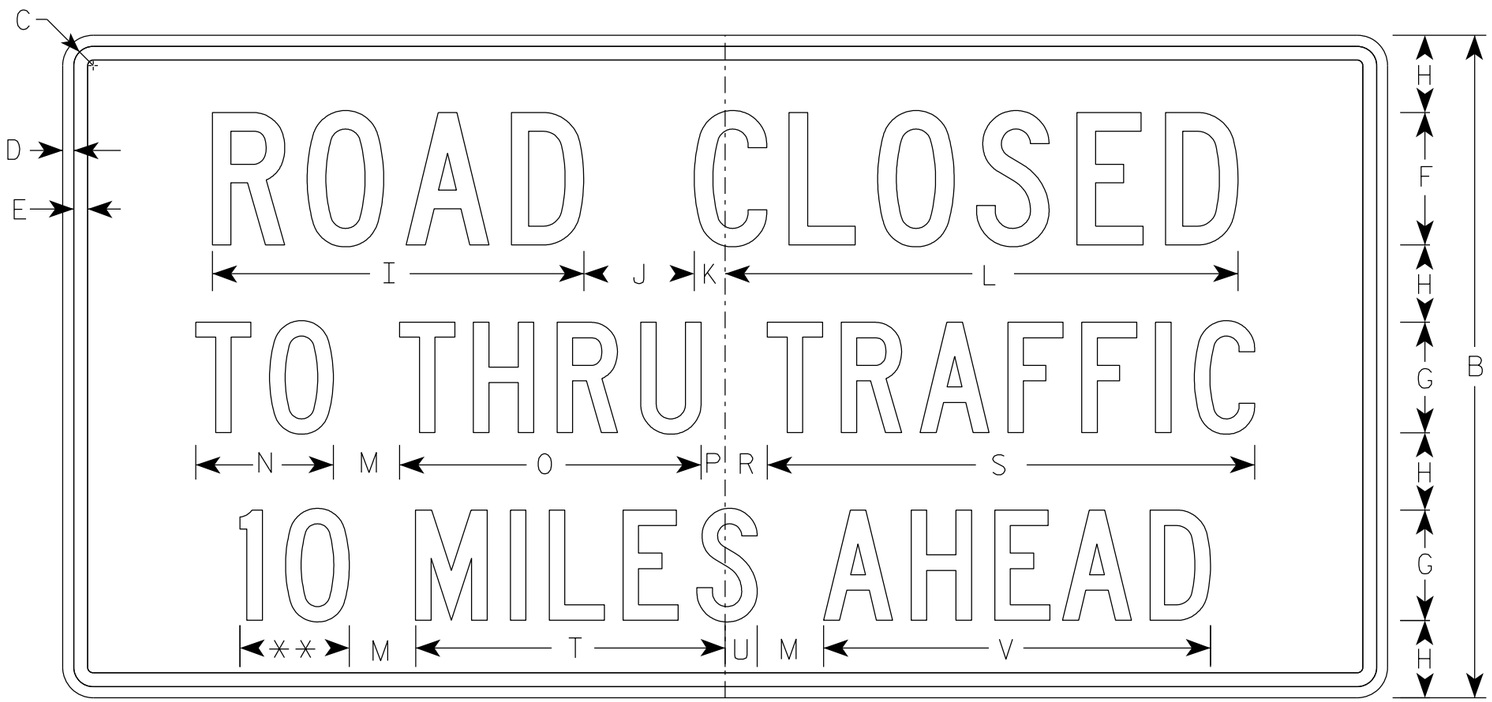
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 883 E

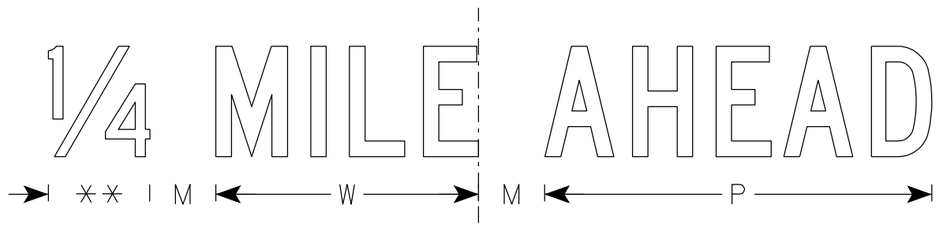
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

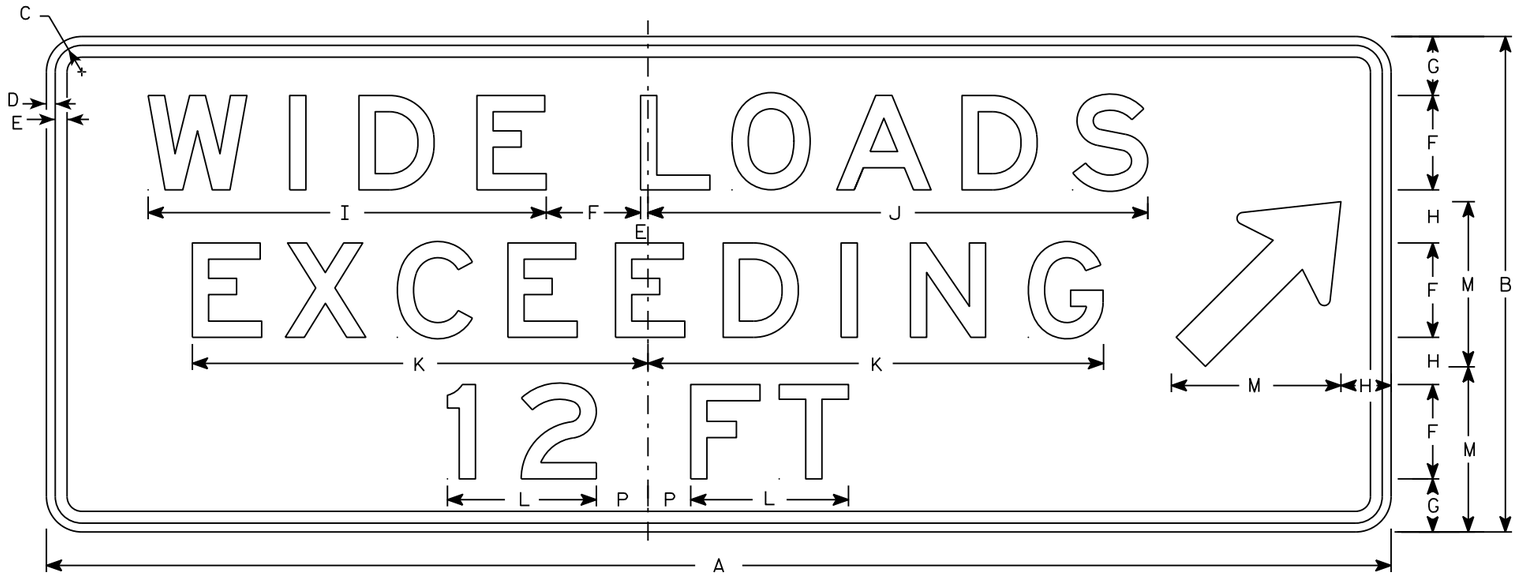
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 6/14/2021 PLATE NO. R11-3.9

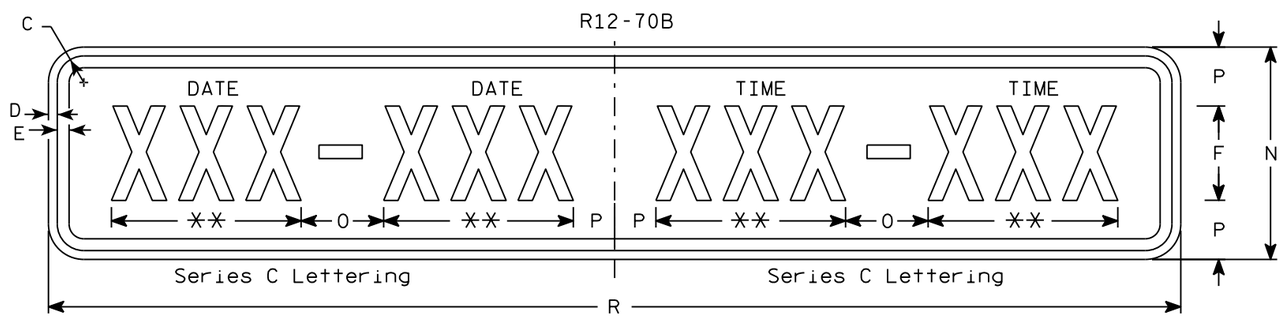
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 884 E

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E except as noted
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

** Substitute appropriate message, optically center message





R12-70C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	R12-70 Area sq. ft.	R12-70C Area sq. ft.
1																												
2S	90	36	2 1/4	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
2M	90	36	2 1/4	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
3																												
4	114	42	2 1/4	3/4	1	8	5	4	34	42	39	13	14	18	7	3 1/2		96									36.75	12.0
5	114	42	2 1/4	3/4	1	8	5	4	34	42	39	13	14	18	7	3 1/2		96									36.75	12.0

TYPICAL SIGN
R12-70B

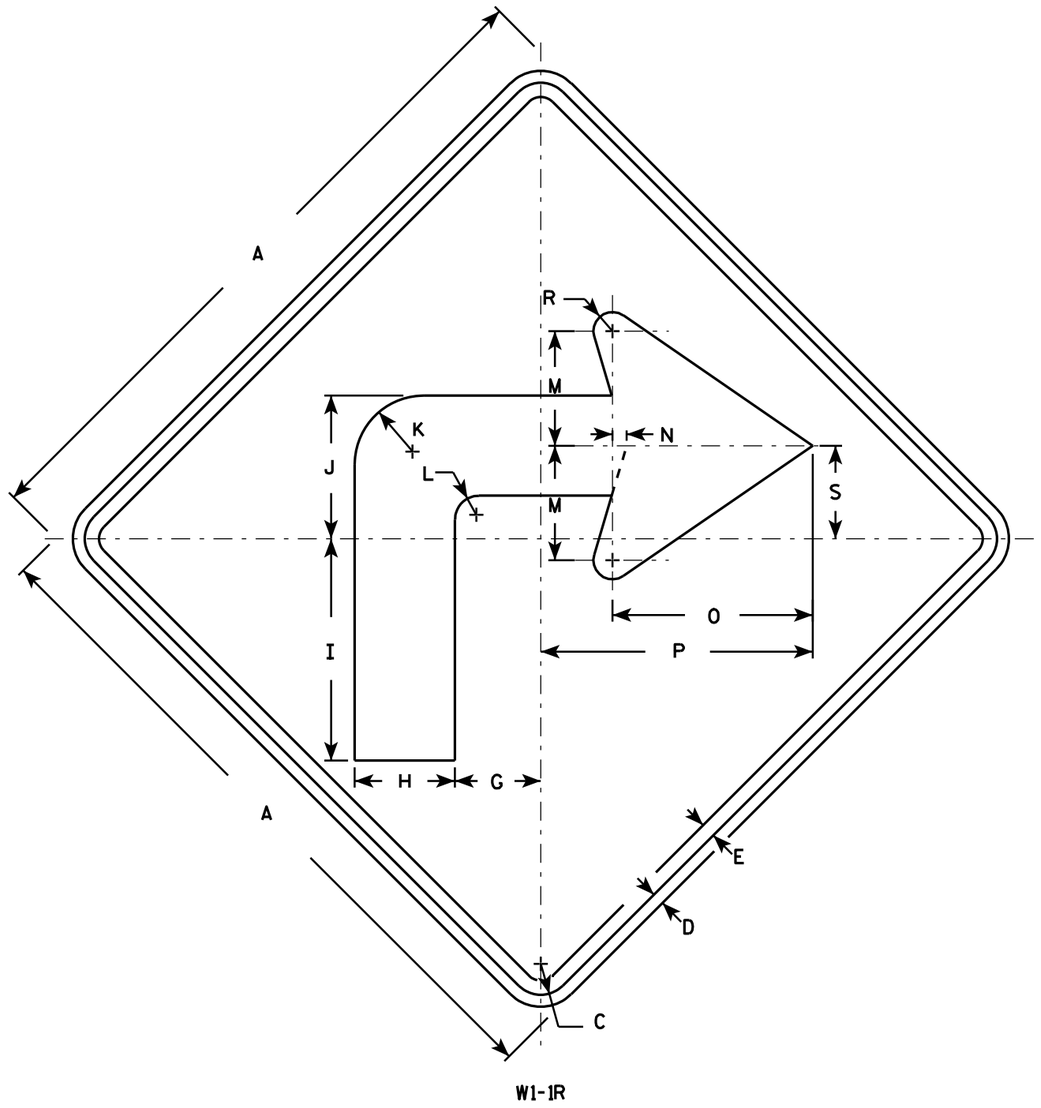
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/15 PLATE NO R12-70B.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R1270B.DGN PLOT DATE : 01-DEC-2015 18:10 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 12.842555:1.000000



W1-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

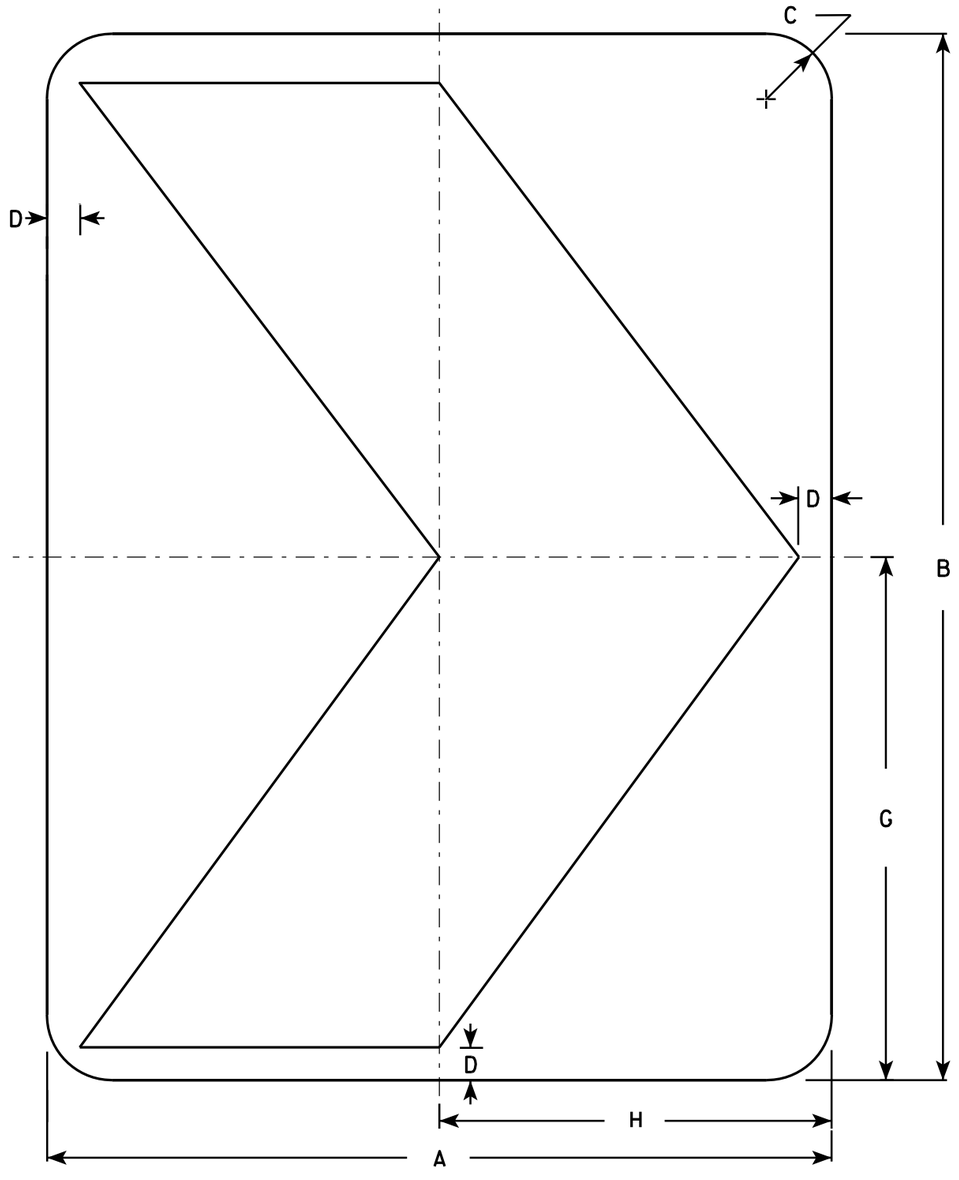
STANDARD SIGN
W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 886 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

W1-8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 ½	½			9	6																			1.5
2S	18	24	1 ½	¾			12	9																			3.0
2M	18	24	1 ½	¾			12	9																			3.0
3	24	30	1 ½	1			15	12																			5.0
4	30	36	1 ⅞	1 ¼			18	15																			7.5
5	36	48	2 ¼	1 ½			24	18																			12.0

STANDARD SIGN
W1-8

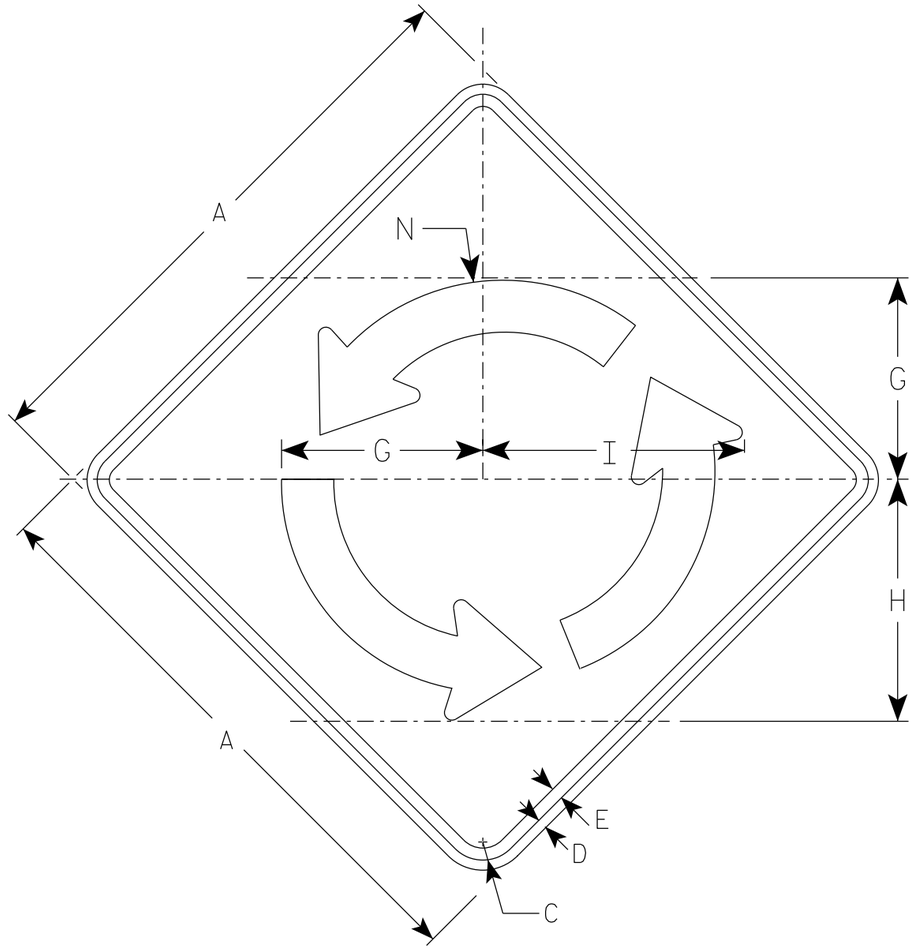
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-8.6

PROJECT NO:

SHEET NO: 887 E

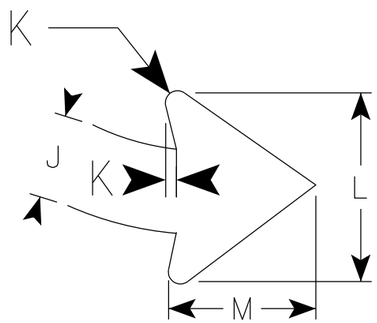


W2-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

Arrow Detail



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Area sq. ft.
1																									
2S	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
2M	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
3	36		1 5/8	5/8	3/4		12 1/2	15	16 1/4	3 1/4	1/2	7 3/8	5 3/4	13 3/8											9.00
4	48		2 1/4	3/4	1		16 5/8	20	16 1/4	4 3/8	5/8	9 3/4	7 5/8	17 7/8											16.0
5																									

STANDARD SIGN
W2-6

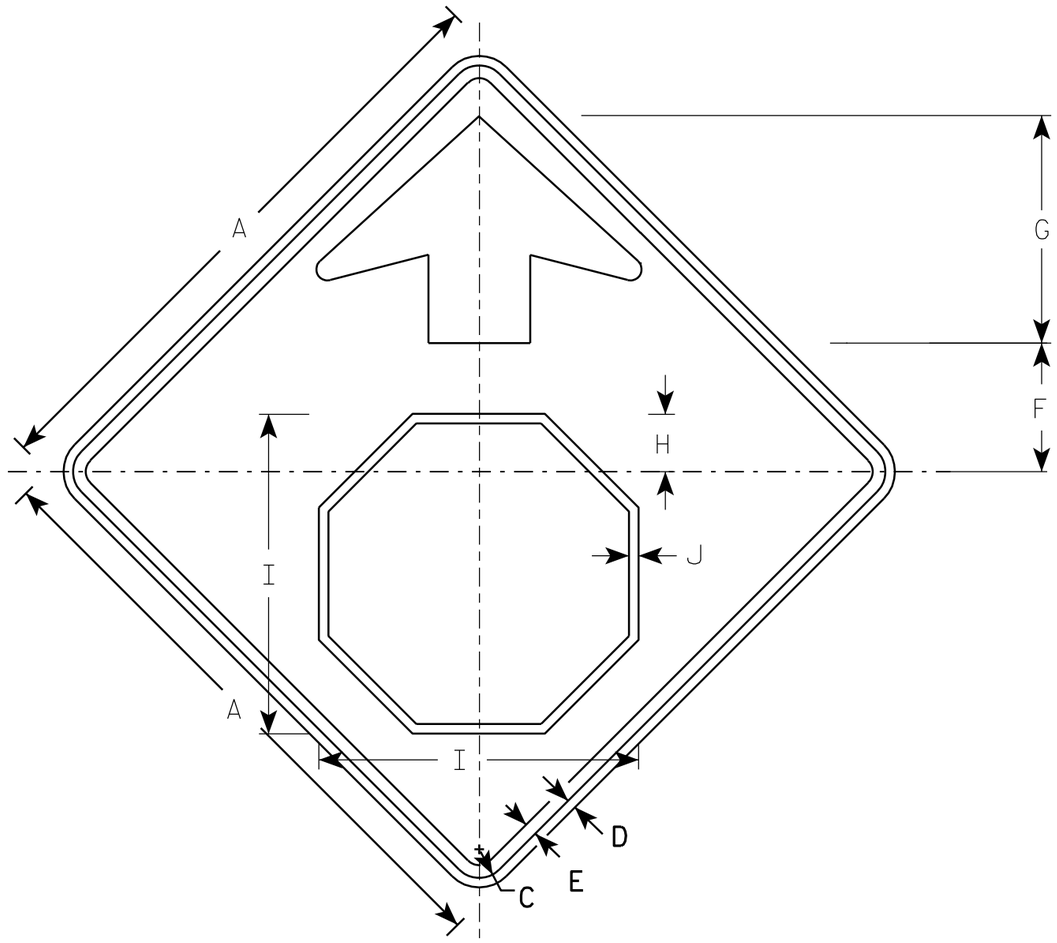
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/21 PLATE NO. W2-6.7

PROJECT NO:

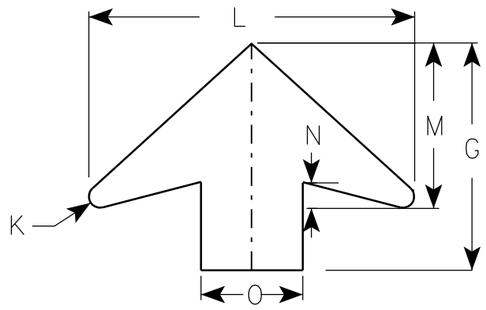
SHEET NO: 888 E



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

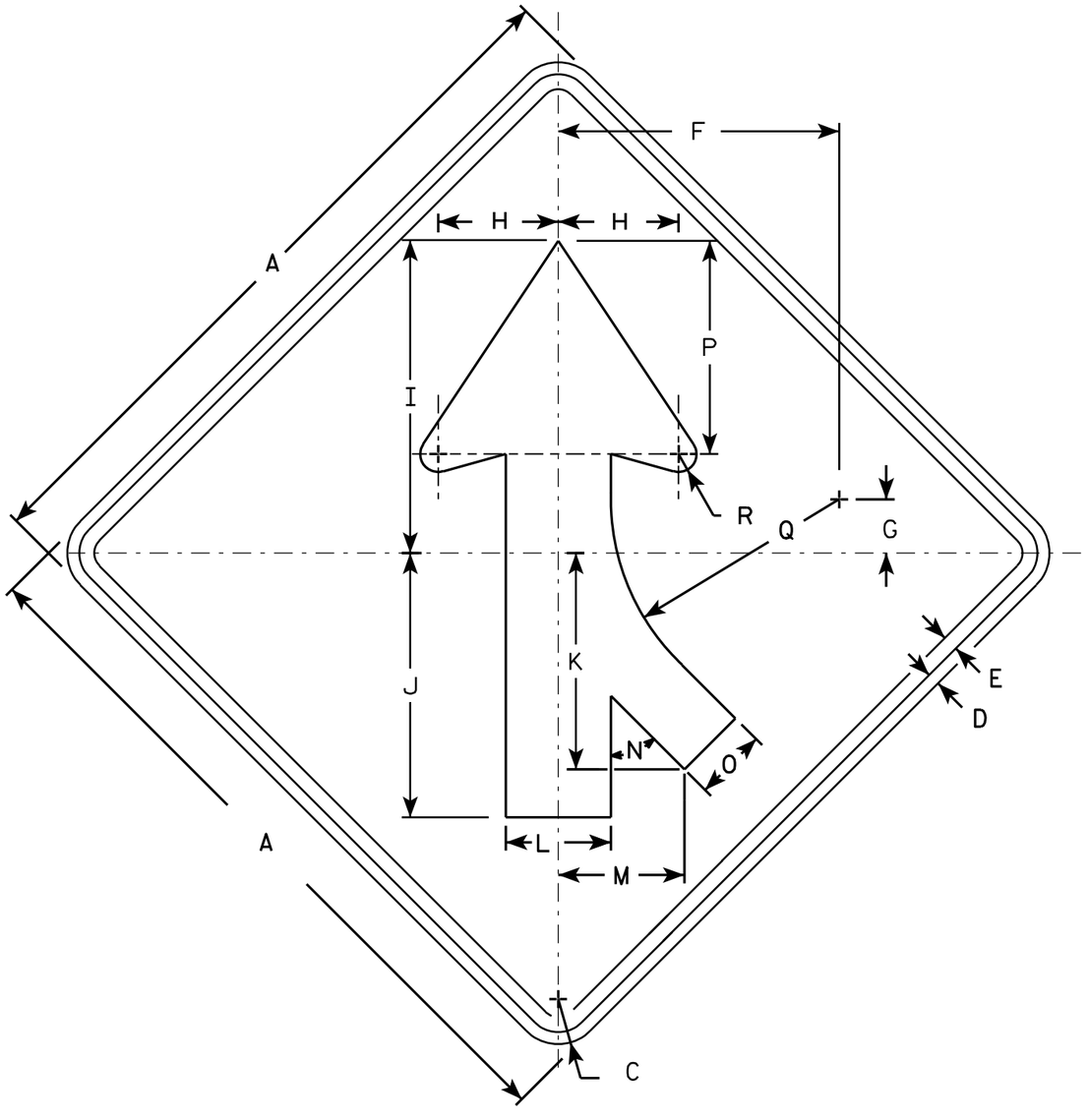
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 889 E



W4-1 R

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 7/8	9 1/2	3/4									6.25
2S	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2M	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
3	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

STANDARD SIGN
W4-1

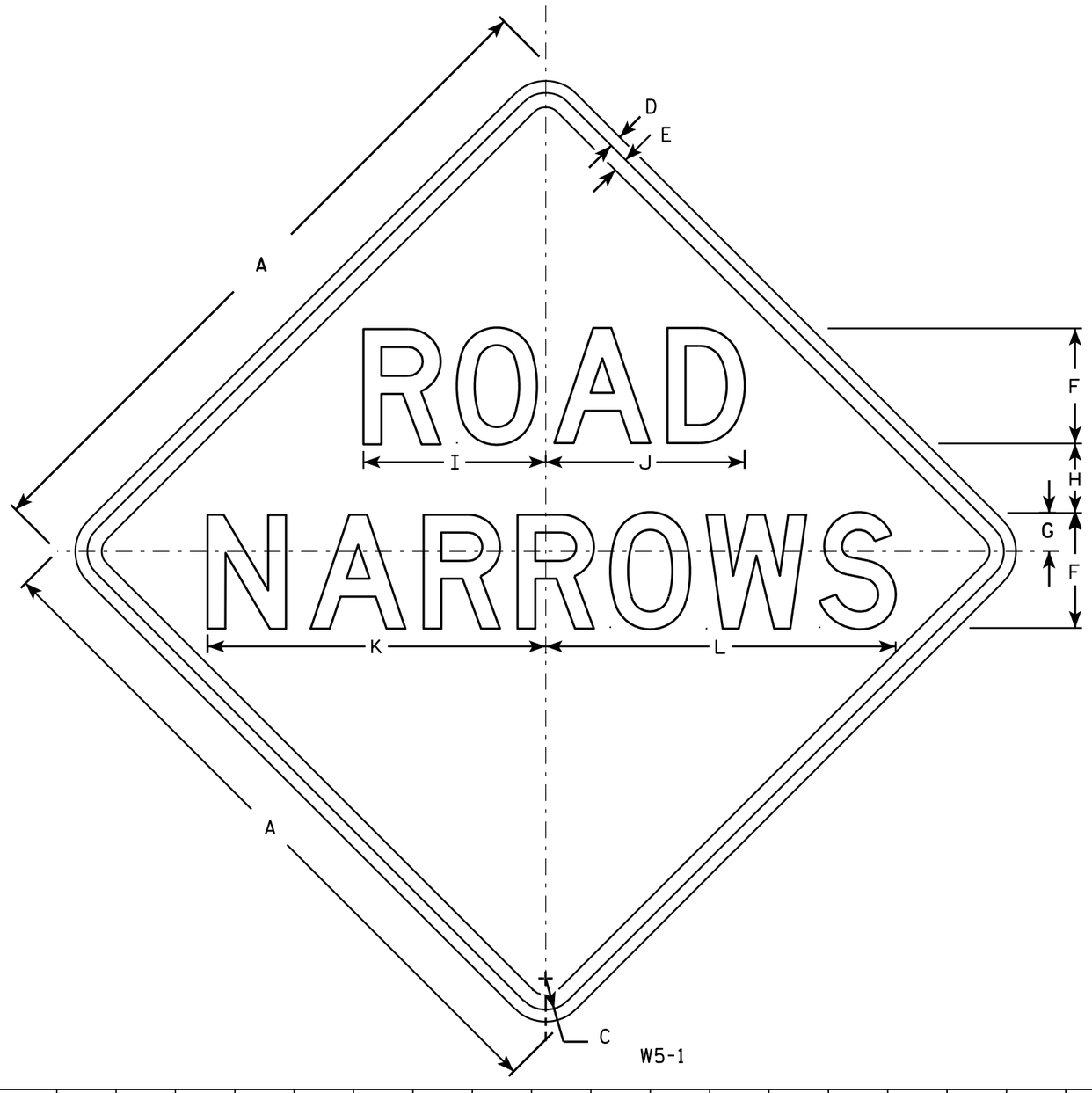
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rausch for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 890 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W41.DGN PLOT DATE : 12-MAR-2013 11:06 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.202372:1.000000
WISDOT/CADDS SHEET 42



W5-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	1 3/4	3	7 7/8	8 5/8	14 3/4	15 1/8															6.25
2S	36		1 5/8	5/8	3/4	6	2	3 1/2	9 1/2	10 3/8	17 5/8	18 1/4															9.0
2M	36		1 5/8	5/8	3/4	6	2	3 1/2	9 1/2	10 3/8	17 5/8	18 1/4															9.0
3																											
4	48		2 1/4	3/4	1	8	3	4	12 3/4	13 3/4	23 1/2	24 3/8															16.0
5																											

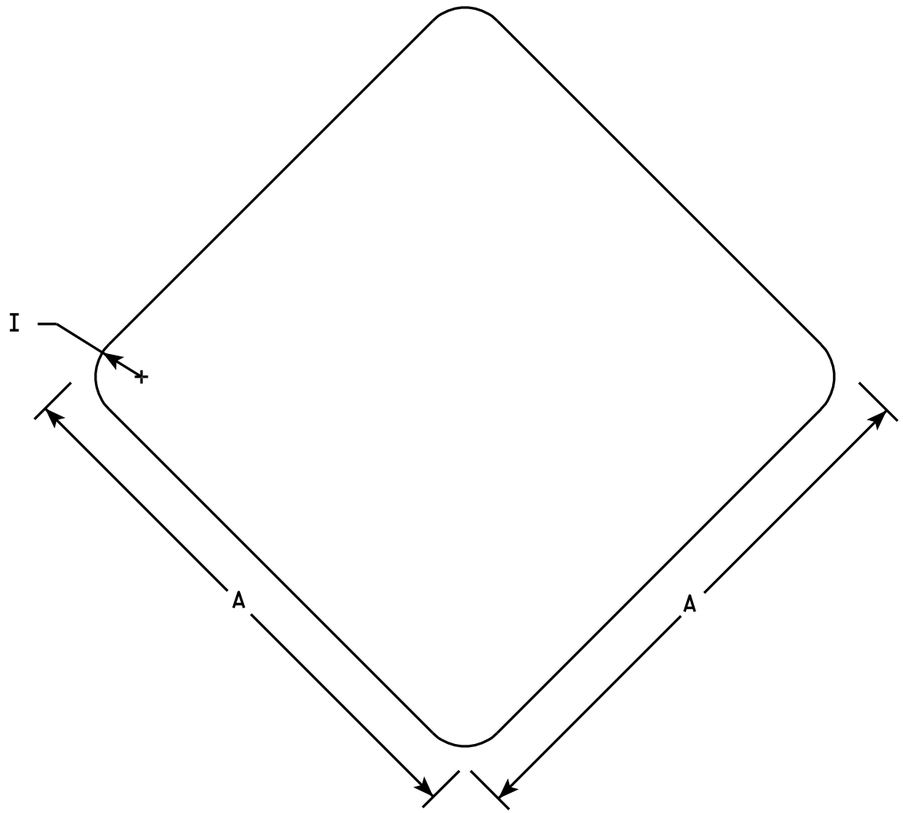
STANDARD SIGN
W5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 03/12/13 PLATE NO. W5-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 891	E



W5-56

NOTES

1. Sign is Type II - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

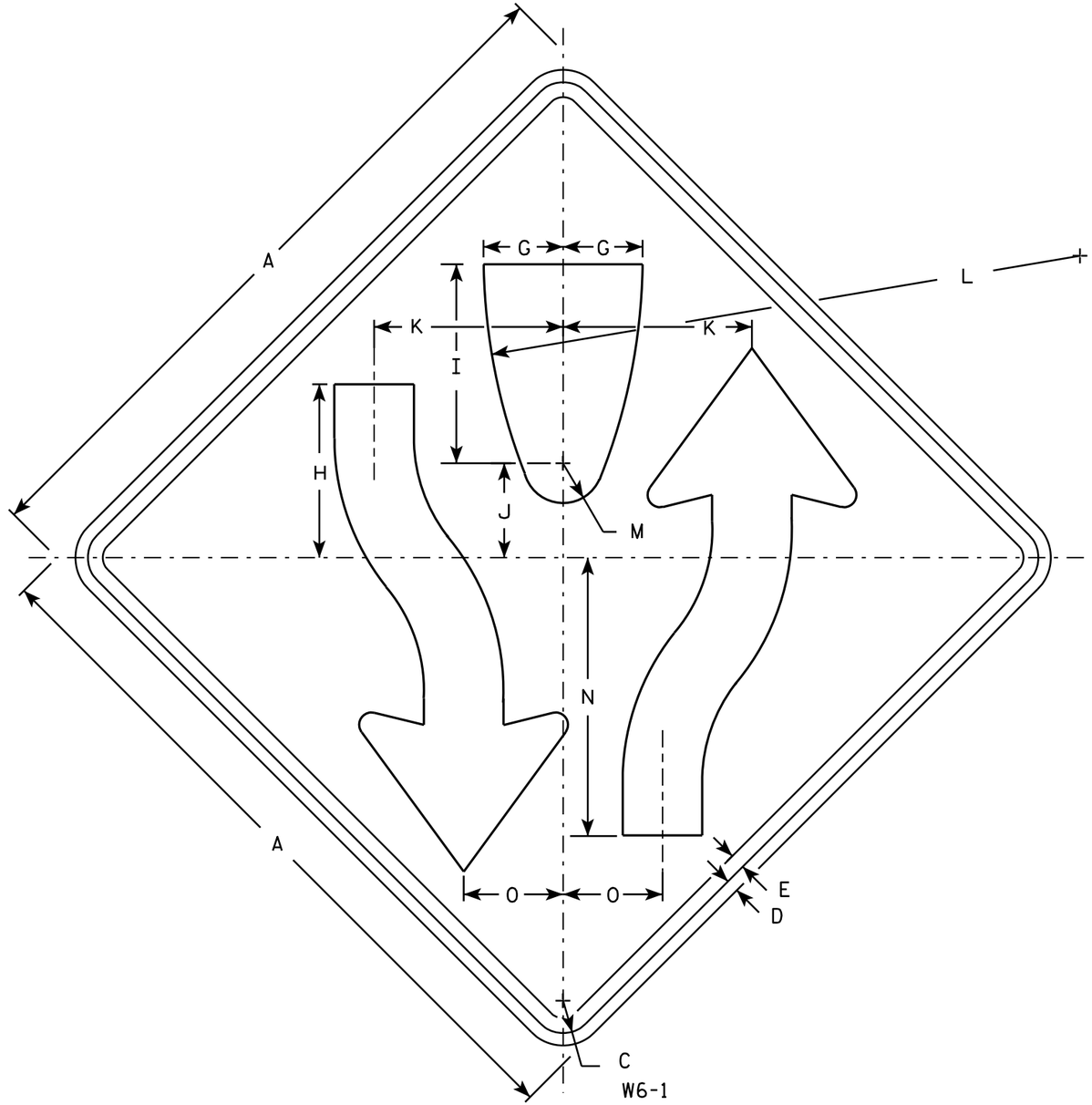
STANDARD SIGN
W5-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

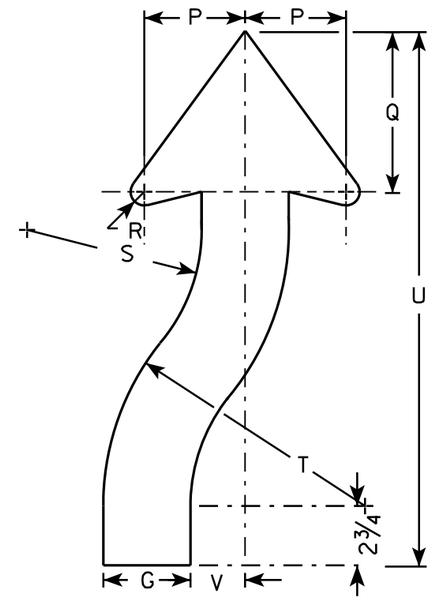
DATE 11/2/10 PLATE NO. W5-56.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 892	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

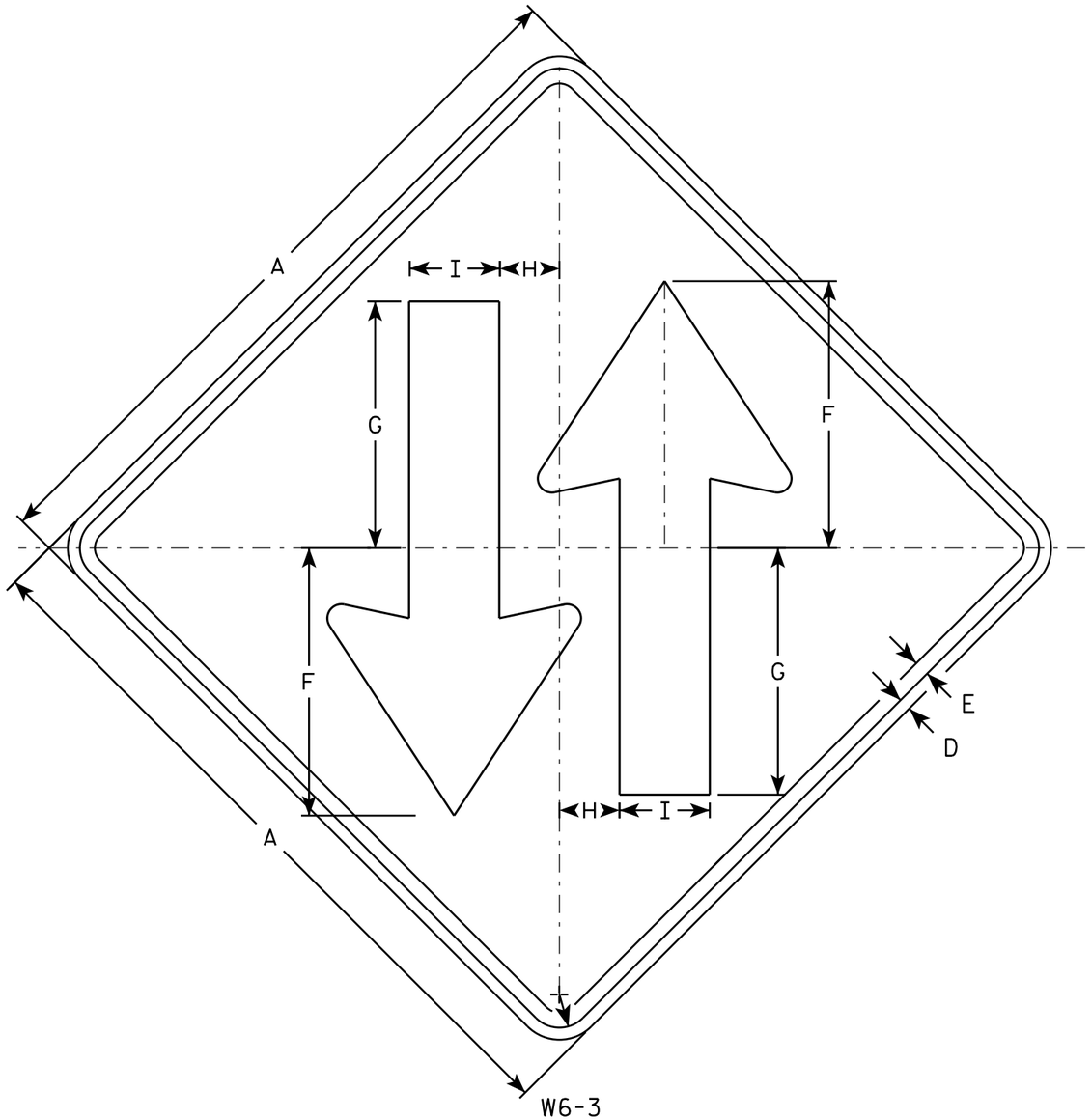
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 893	E

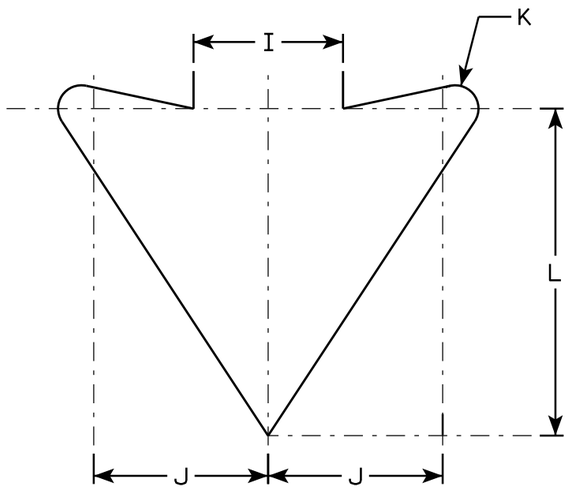
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



W6-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

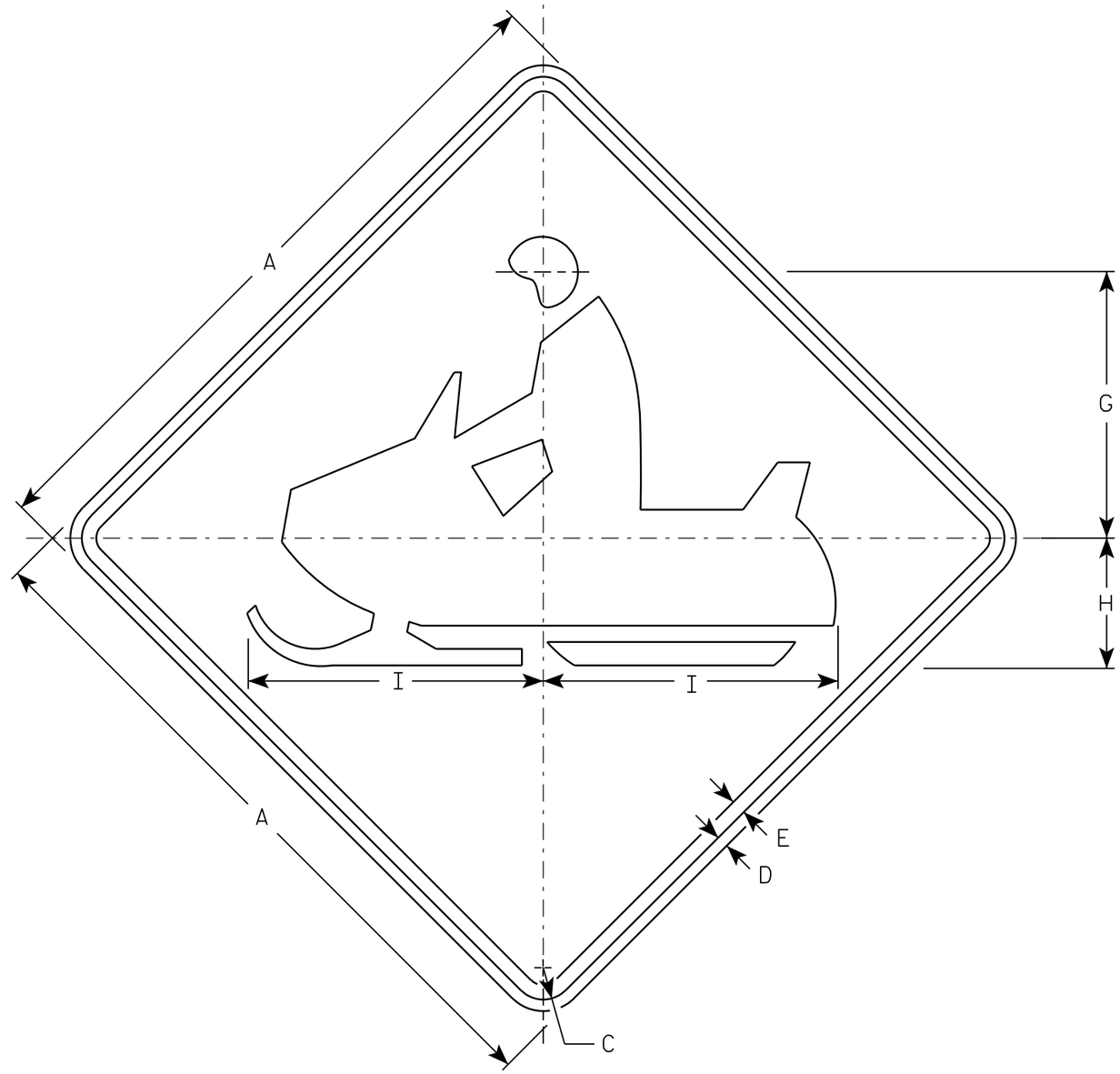
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000
WISDOT/CADDS SHEET 42



W11-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		9 1/2	4 1/2	10 1/4																		4.0
2S	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
2M	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
3	36		1 5/8	5/8	3/4		14 1/8	6 3/4	15 1/4																		9.0
4	48		2 1/4	3/4	1		19	9	20 1/2																		16.0
5																											

STANDARD SIGN
W11-6

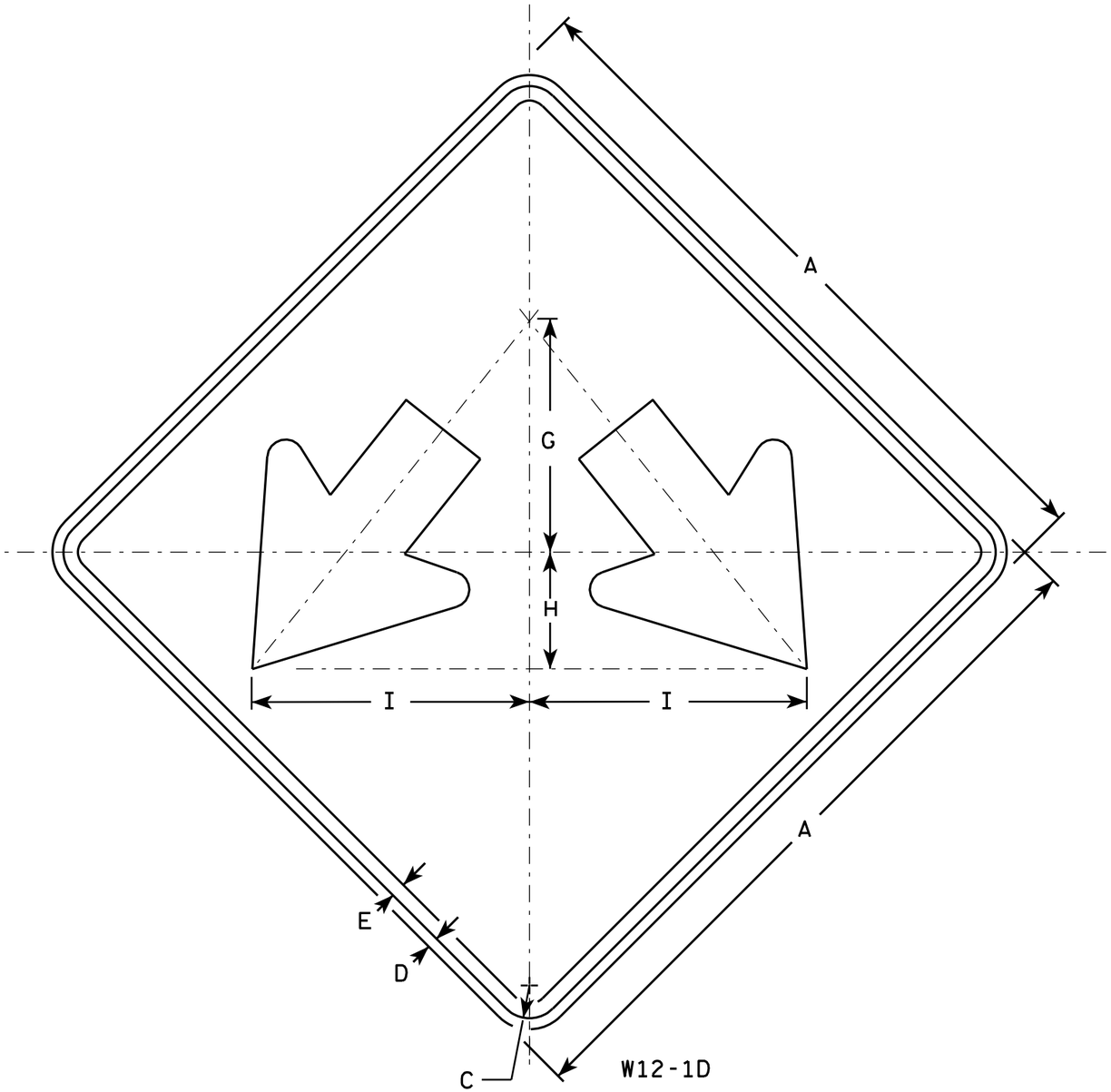
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-6.8

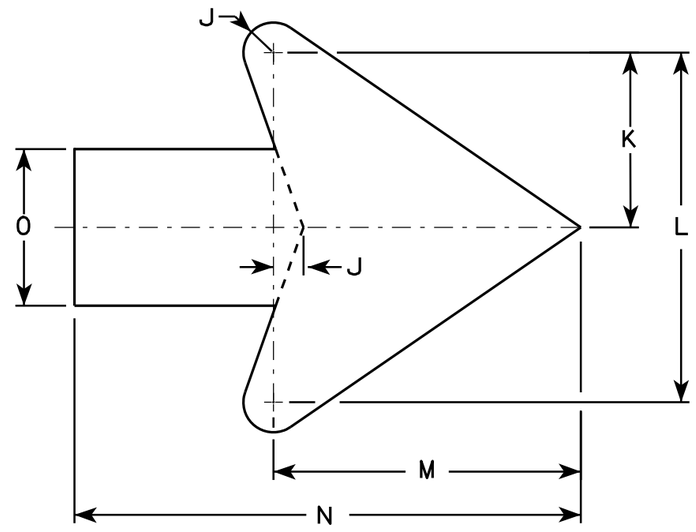
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 895 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W116.DGN PLOT DATE : 13-MAR-2013 12:57 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.954276:1.000000
WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

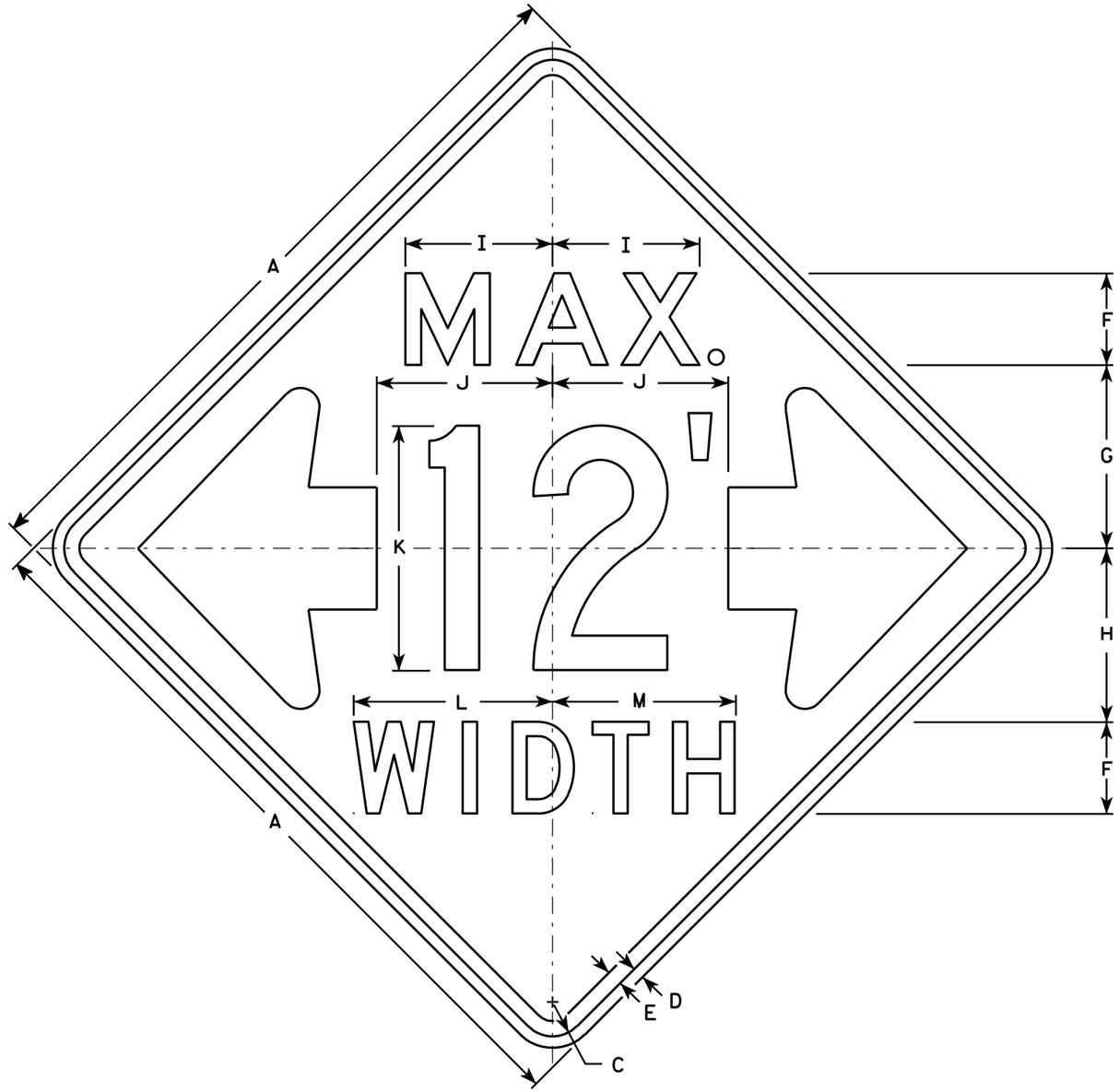
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

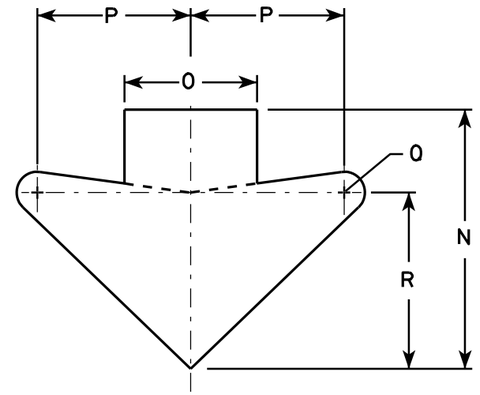
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 896	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

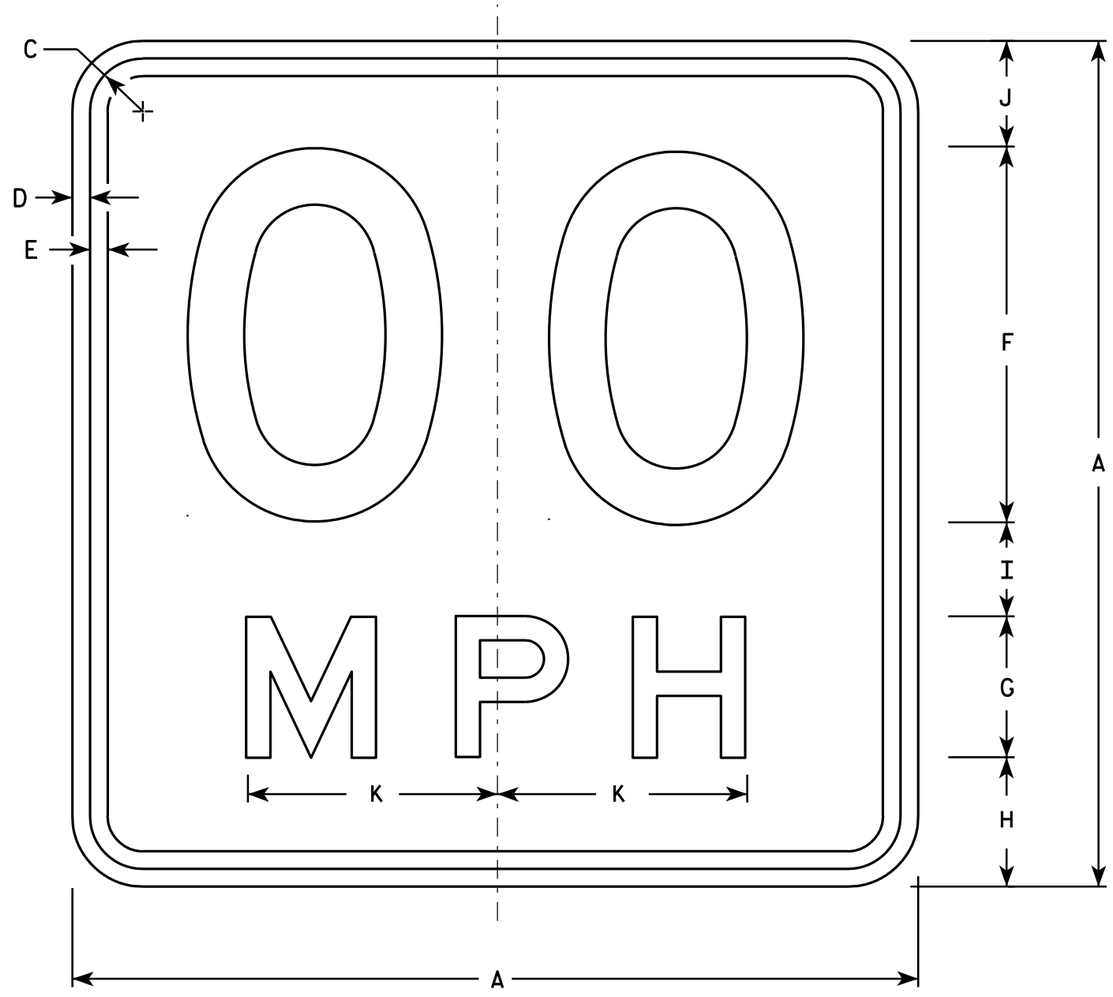
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 897 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

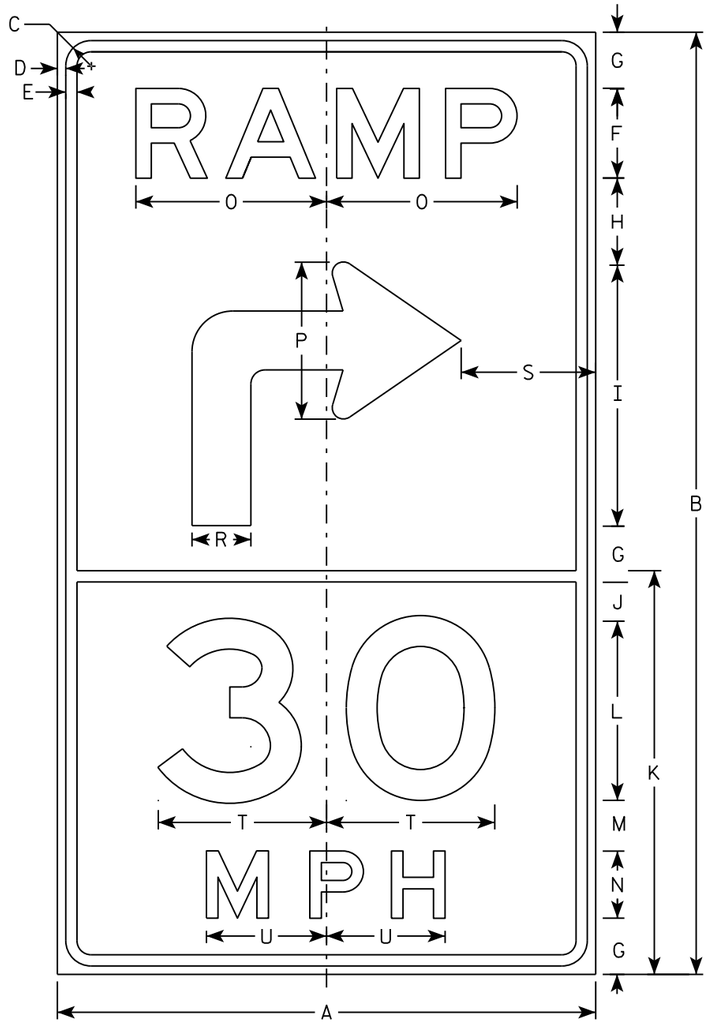
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 898 | E



W13-3D

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E
4. Substitute appropriate numeral and optically center.
5. For use with ramp speeds of 30 MPH or less.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	60	1 5/8	3/4	5/8	6	3 1/2	4 1/2	17 1/2	3 1/2	25 3/4	10	3	5	12 3/4	10 1/2		4	9	10	8 1/2						15.0
2M	36	60	1 5/8	3/4	5/8	6	3 1/2	4 1/2	17 1/2	3 1/2	25 3/4	10	3	5	12 3/4	10 1/2		4	9	10	8 1/2						15.0
3	36	60	1 5/8	3/4	5/8	6	3 1/2	4 1/2	17 1/2	3 1/2	25 3/4	10	3	5	12 3/4	10 1/2		4	9	10	8 1/2						15.0
4	48	84	2 1/4	3/4	1	8	7 1/4	7	23 1/4	3 1/2	36	16	4 1/2	6	17	14		5 1/4	12	15	10 3/4						28.0
5	48	84	2 1/4	3/4	1	8	7 1/4	7	23 1/4	3 1/2	36	16	4 1/2	6	17	14		5 1/4	12	15	10 3/4						28.0

STANDARD SIGN
W13-3D

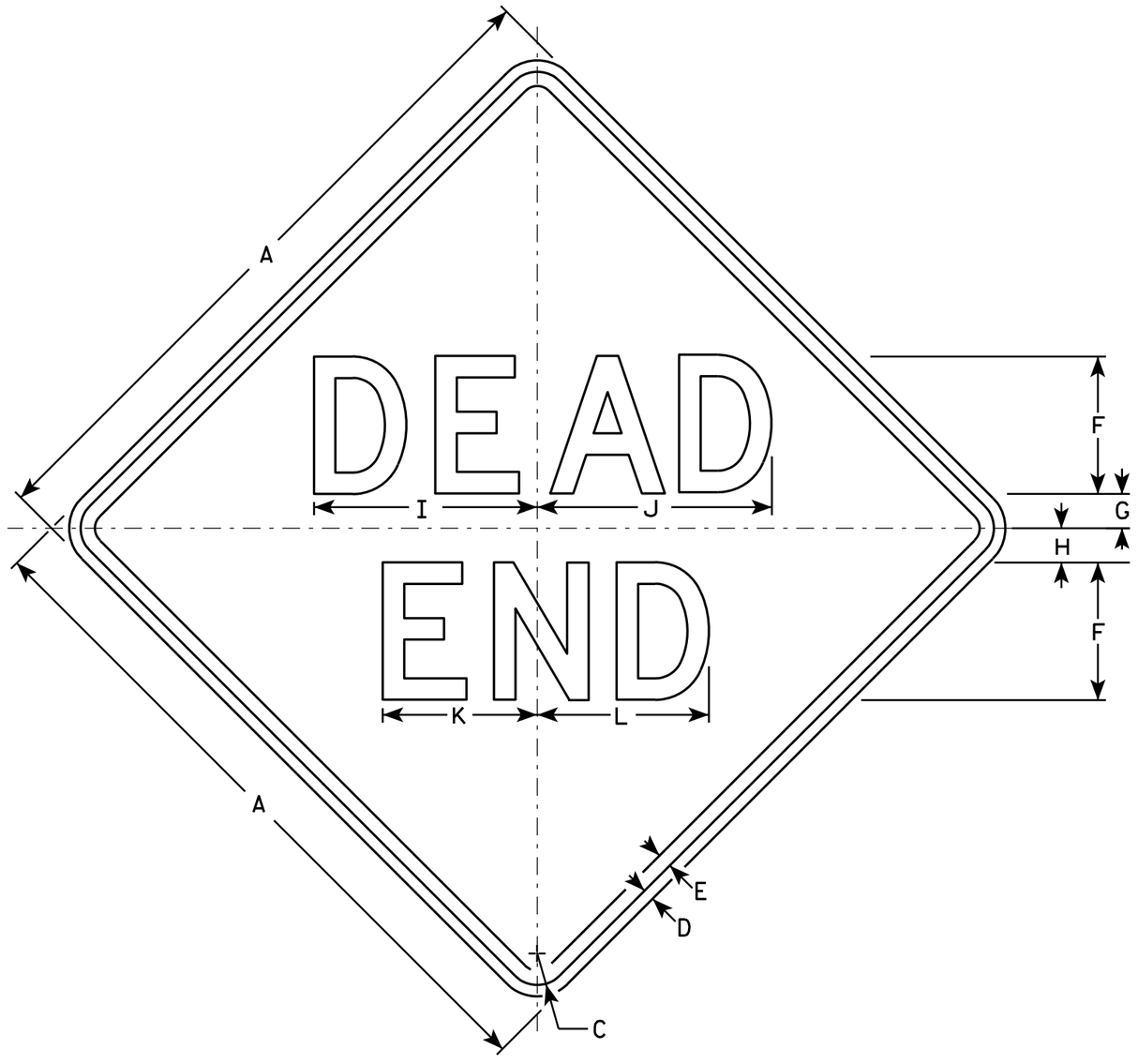
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/1/16 PLATE NO W13-3D.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W133D.DGN PLOT DATE : 01-AUG-2016 11:34 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 13.506629:1.000000



W14-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	5	1	2	8 1/4	8 5/8	5 5/8	6 1/4															4.0
2S	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
2M	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
3	36		1 5/8	5/8	3/4	7	2	3	11 3/8	12	7 7/8	8 3/4															9.0
4																											
5																											

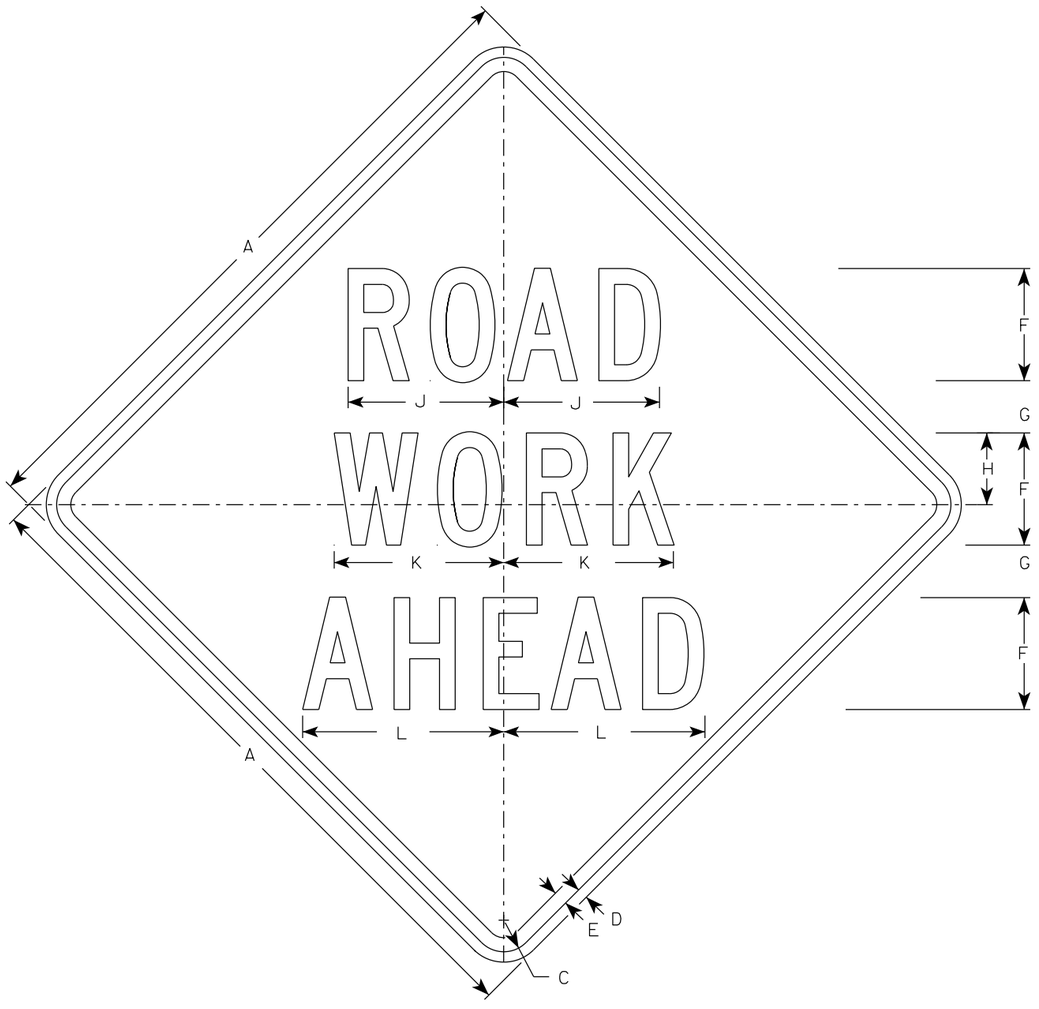
STANDARD SIGN
W14-1

WISCONSIN DEPT OF TRANSPORTATION

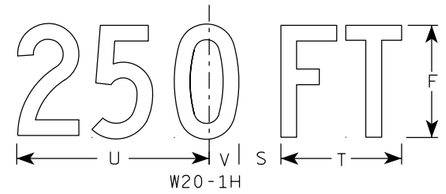
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-1.7

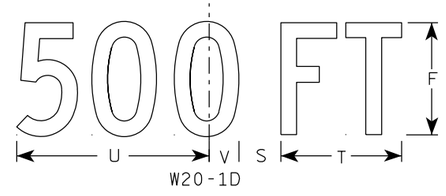
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 900	E



W20-1A

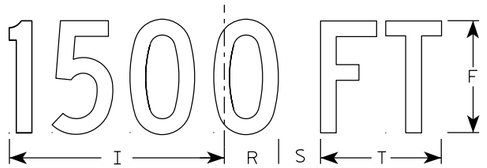


W20-1H



W20-1D

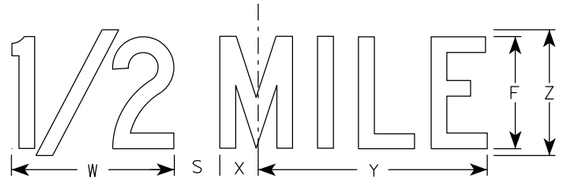
W20-1C



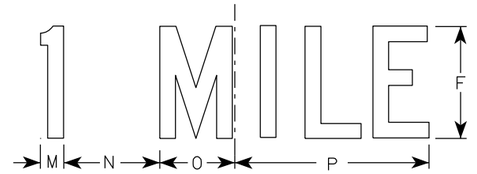
W20-1B

NOTES

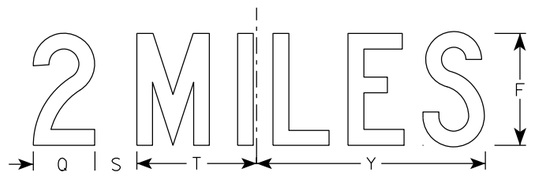
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

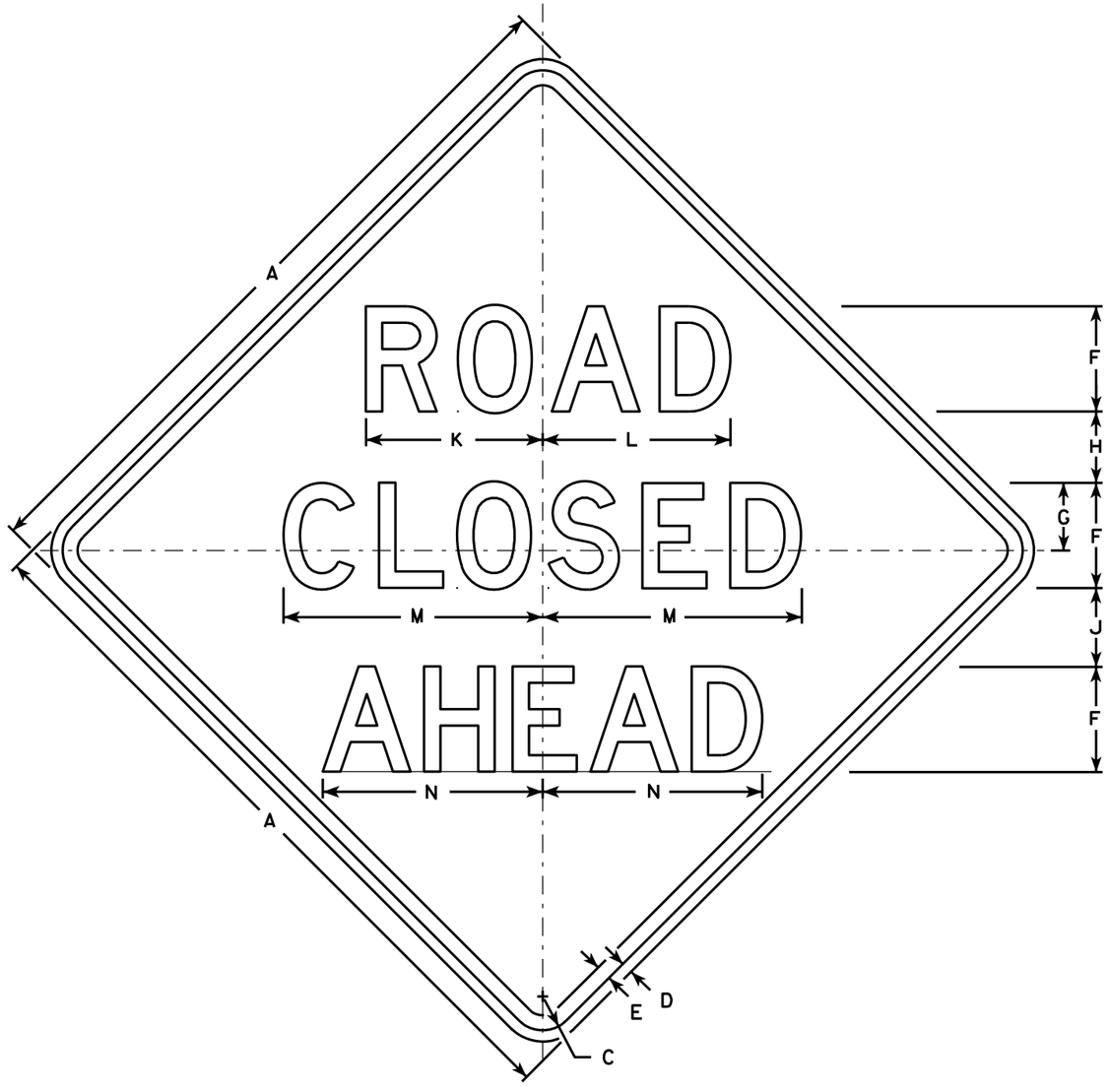
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

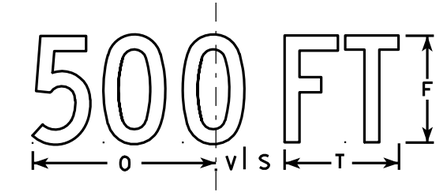
WISDOT/CADDS SHEET 42

7

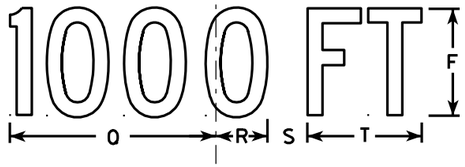
7



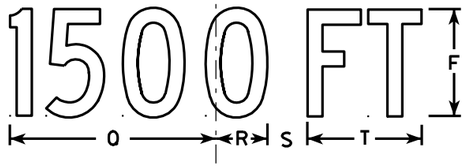
W20-3A



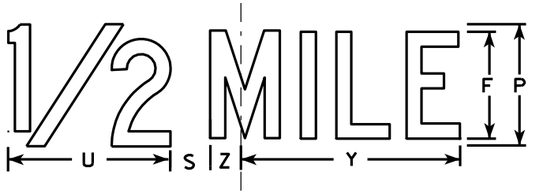
W20-3D



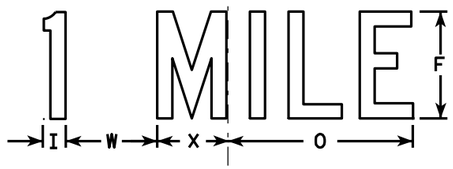
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

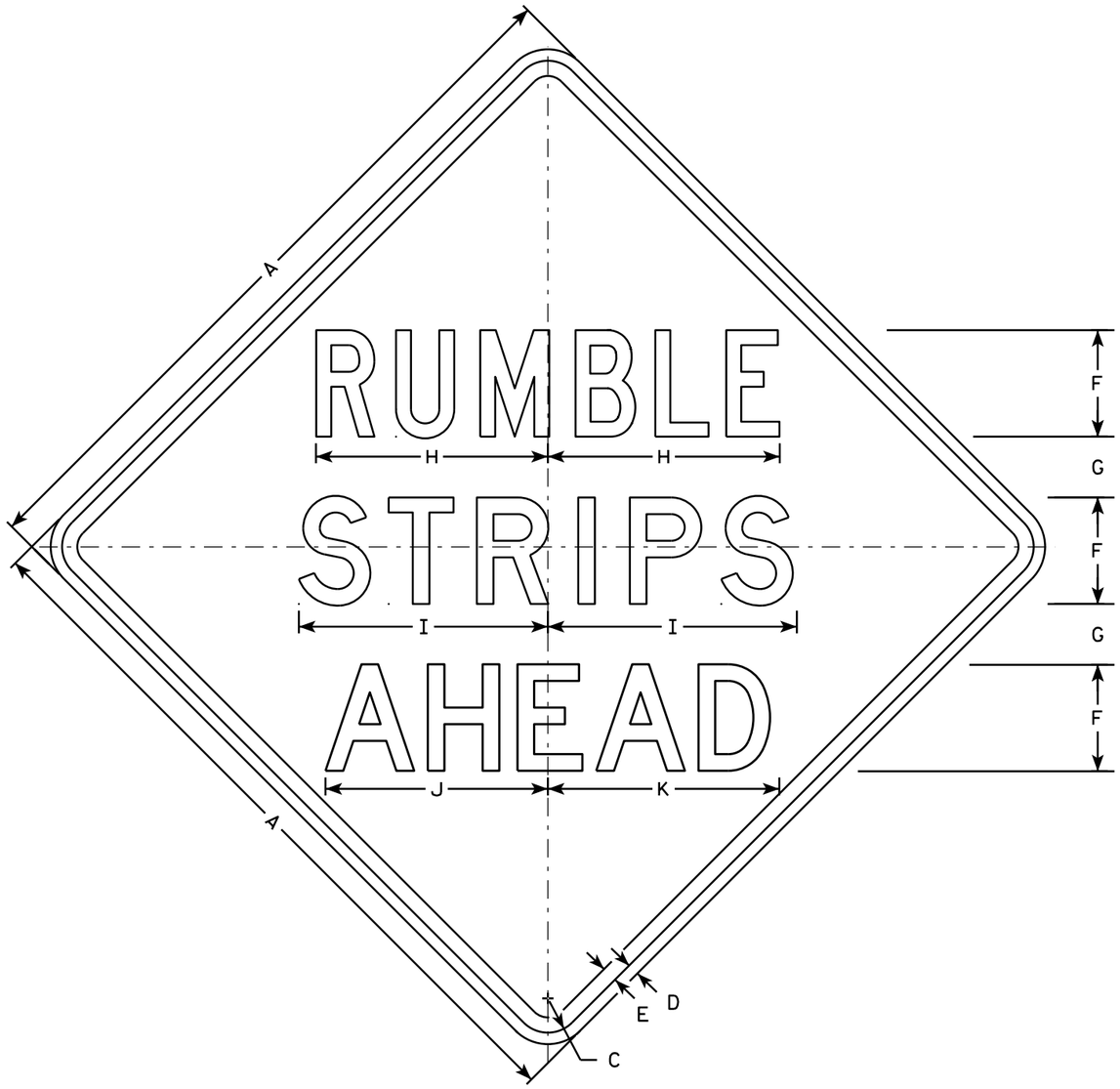
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 902 | E



W21-65

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series C
   Lines 2 and 3 are Series D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 1/4	10 7/8	11 5/8	11	11 5/8																9.0
2S	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
2M	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
3	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
4	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
5	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0

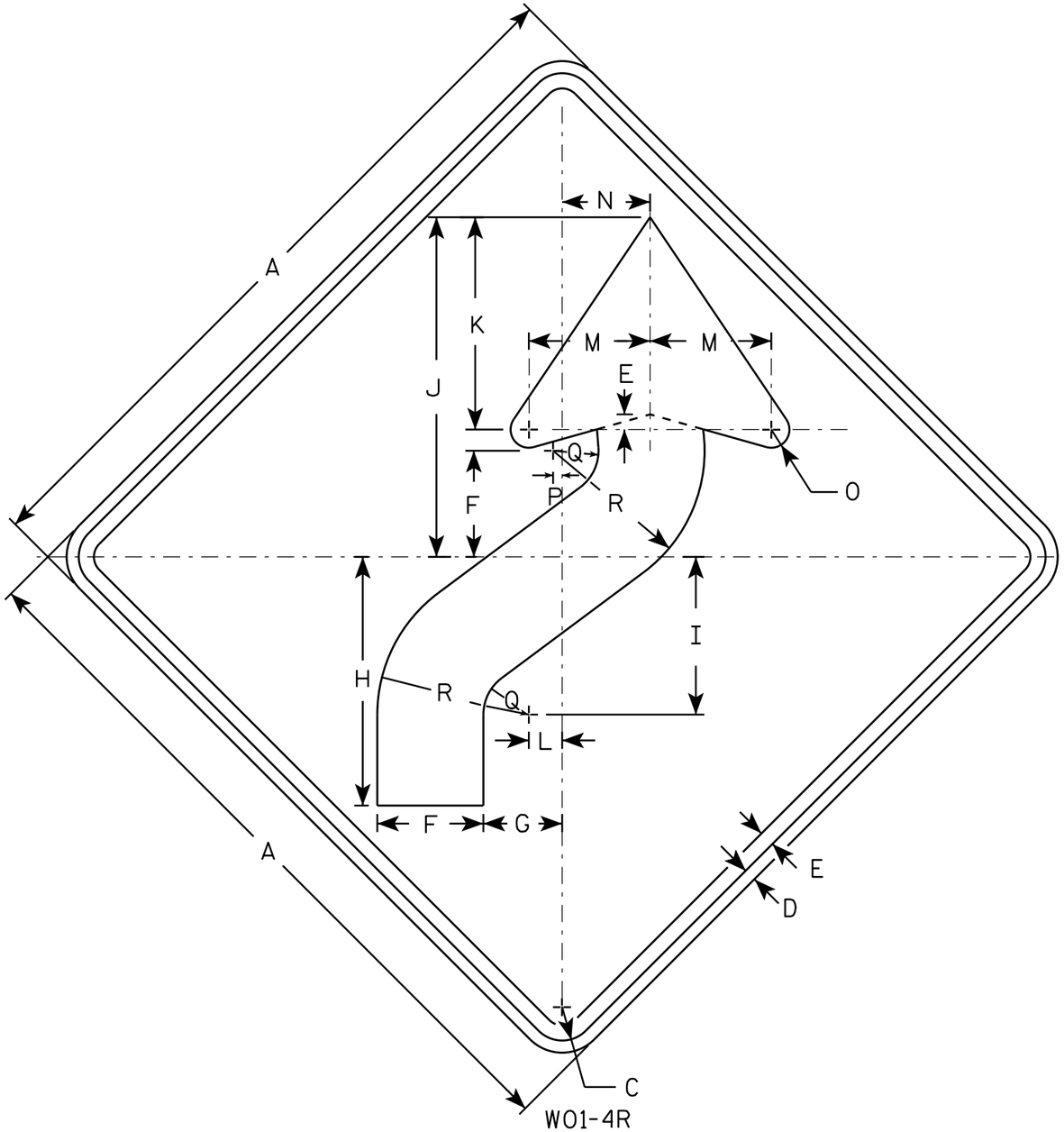
STANDARD SIGN
W21-65

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/28/14 PLATE 903 W21-65.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



WO1-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. WO1-4L is the same as WO1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
WO1-4

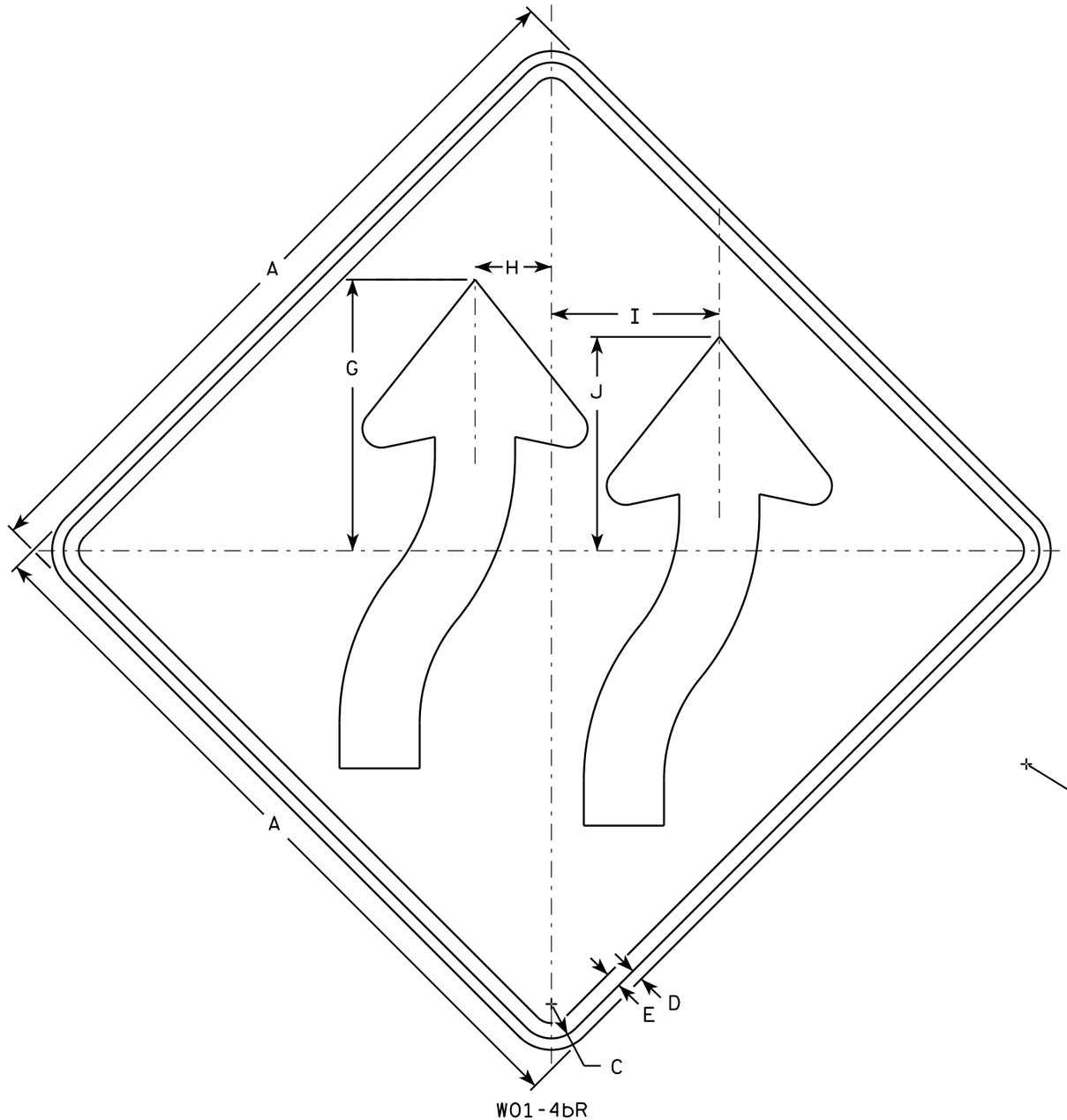
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

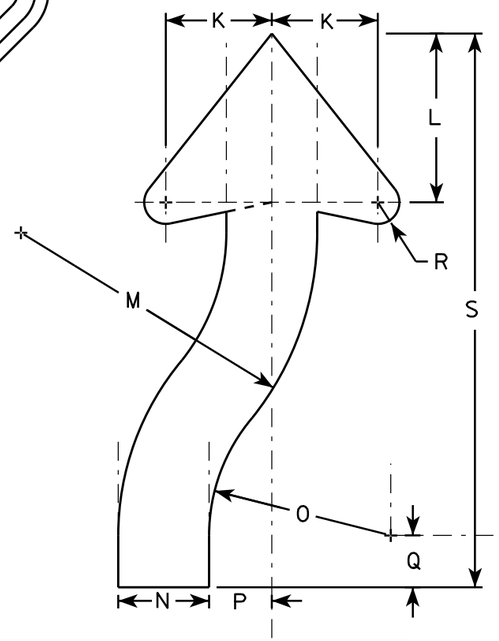
DATE 11/18/13 PLATE NO WO1-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\WO14.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42



W01-4bR



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4bL is the same as W014-bR exept arrows are reversed along the vertical centerline

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		13 3/8	3 3/4	8 1/4	10 1/2	4 5/8	7 3/8	12 7/8	3 7/8	7 7/8	2 3/4	2 1/4	7/8	24								9.0
2S	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
2M	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
3	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
4	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
5	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0

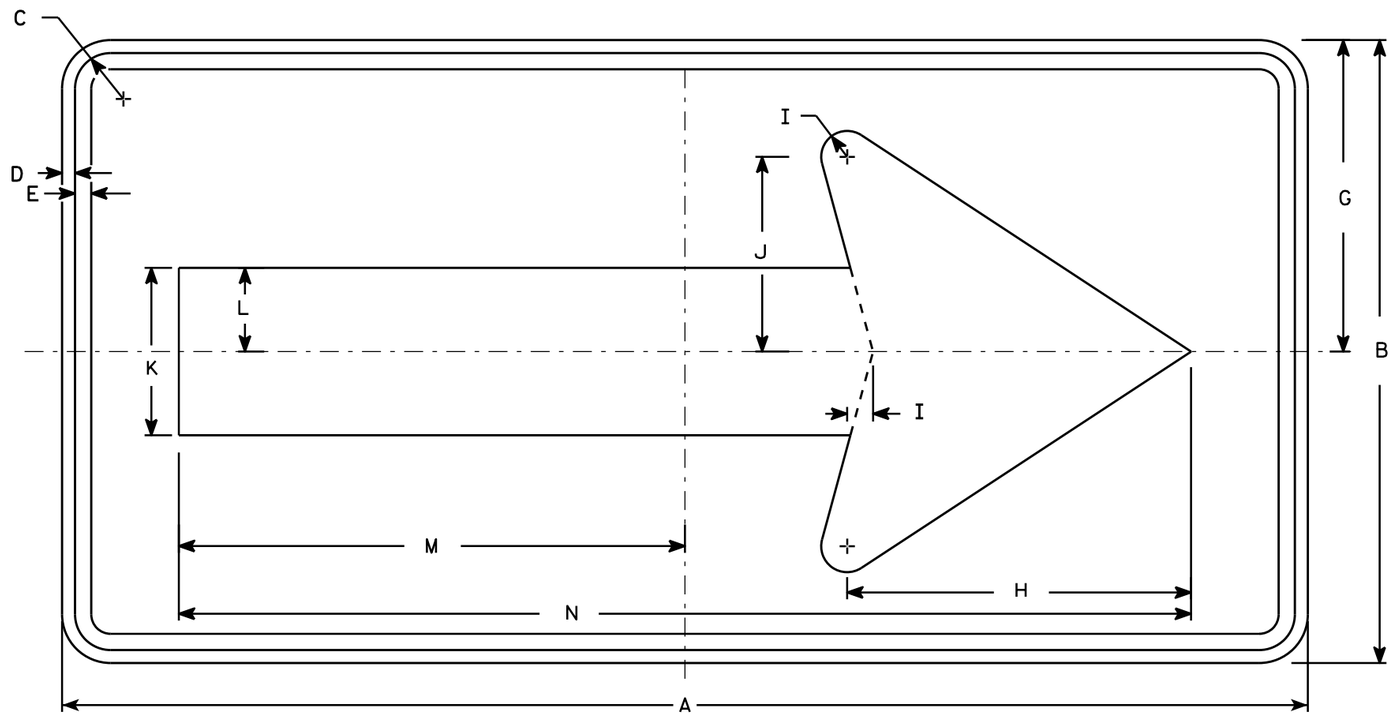
STANDARD SIGN
W01-4b

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-4b.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

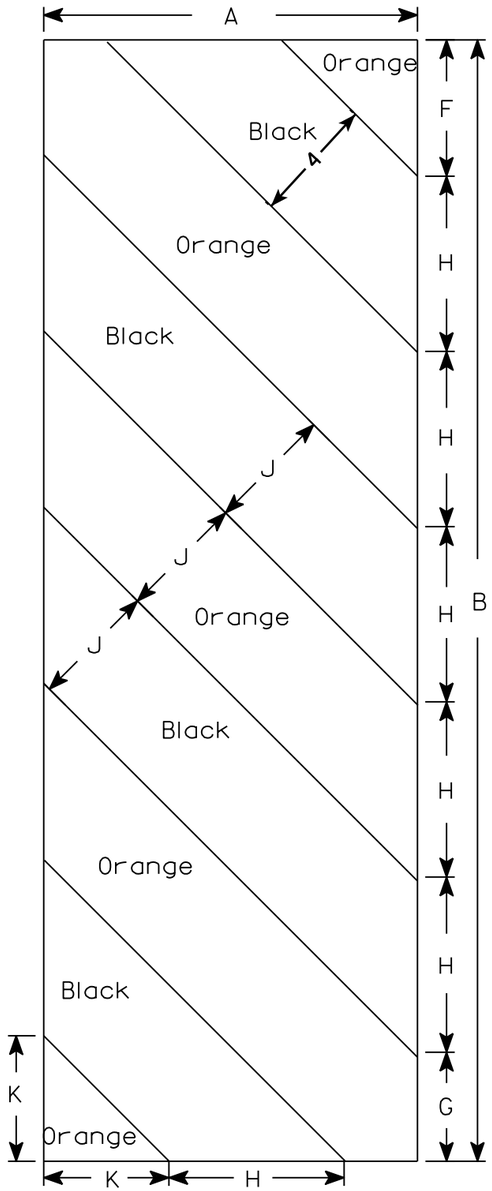
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

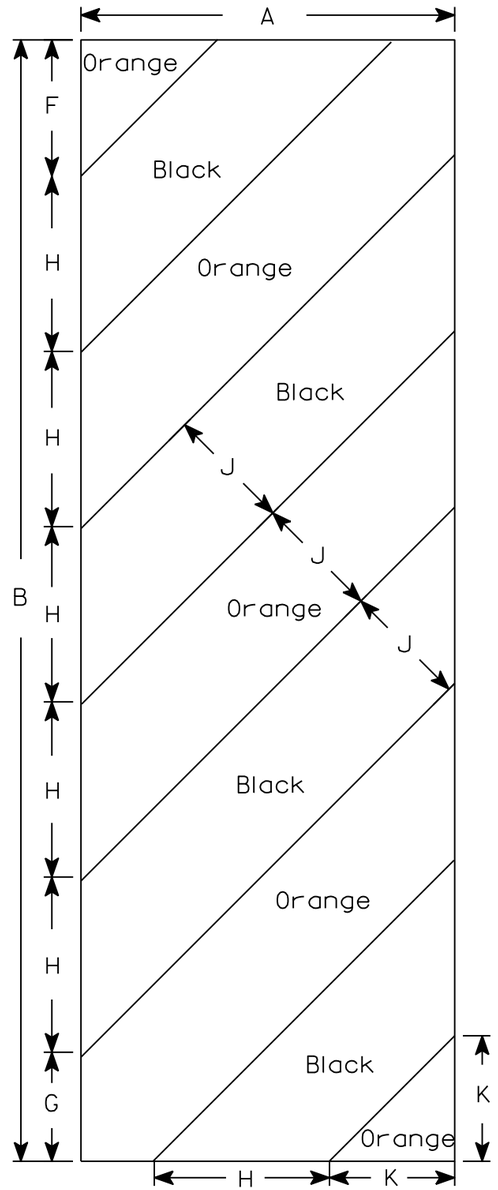
DATE 11/18/13 PLATE W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W05-52L



W05-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

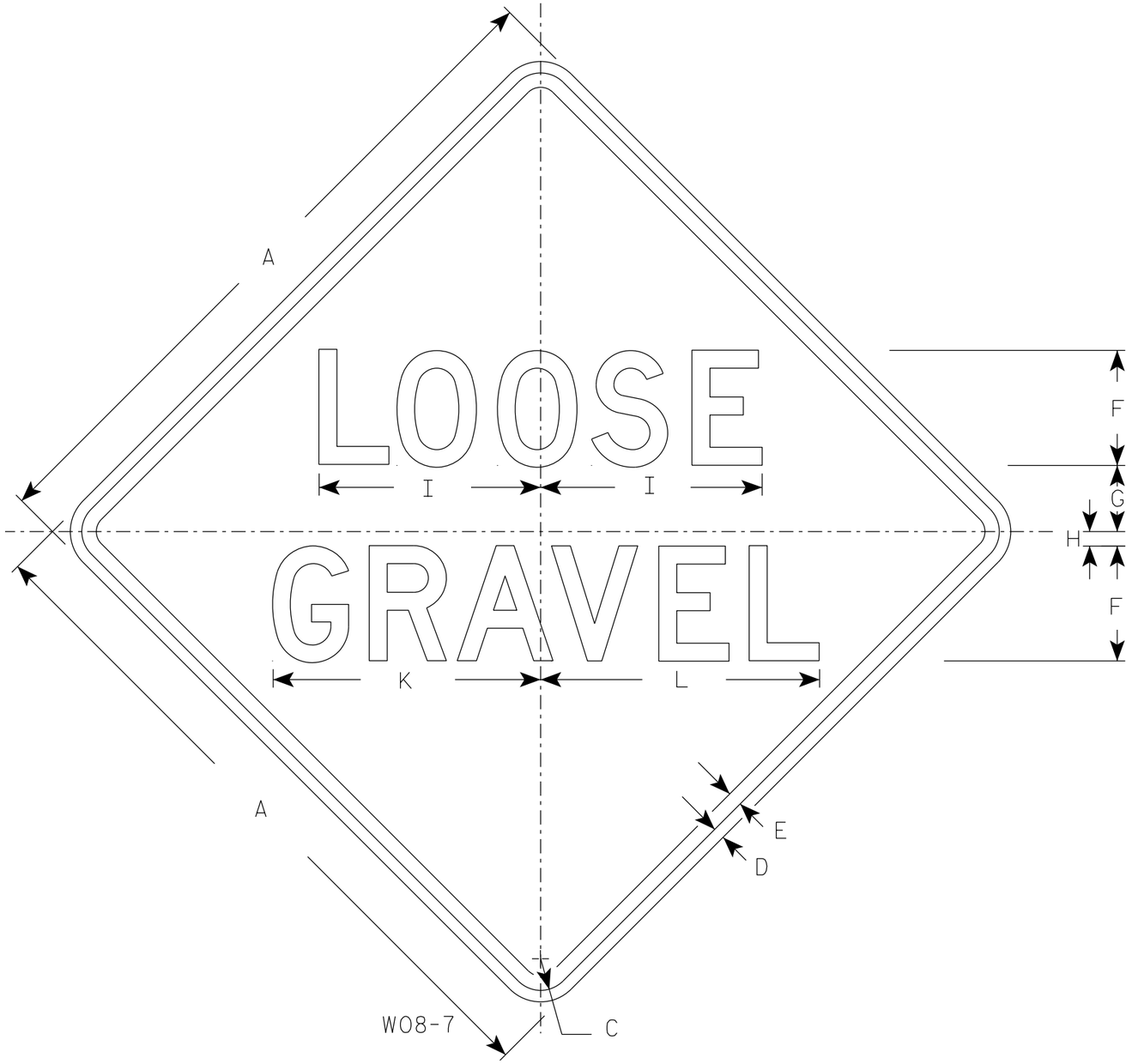
W05-52L & W05-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W05-52.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
2S	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0
2M	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0
3	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0
4	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0
5	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0

STANDARD SIGN
W08-7

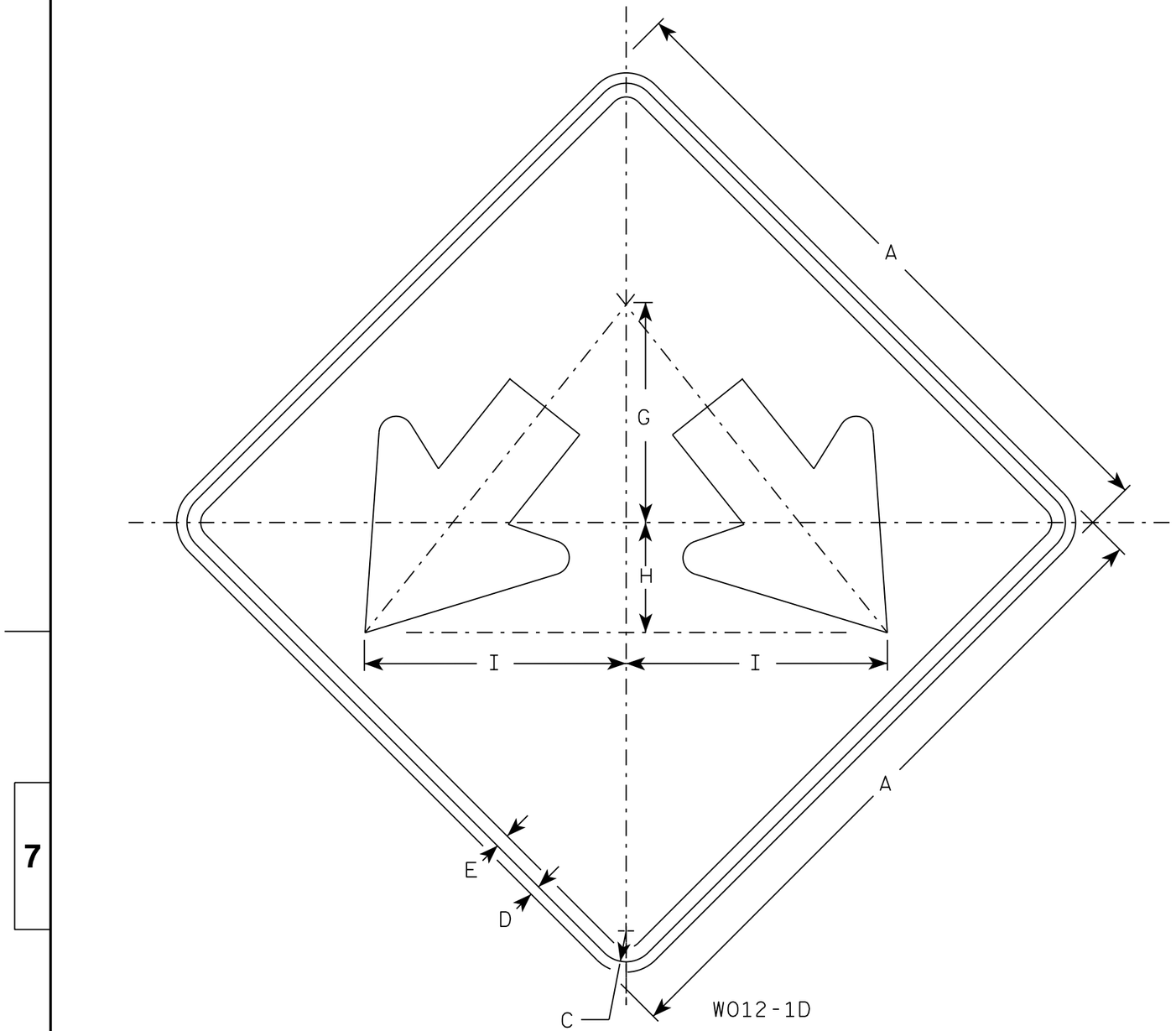
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/16/2020 PLATE NO. W08-7.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

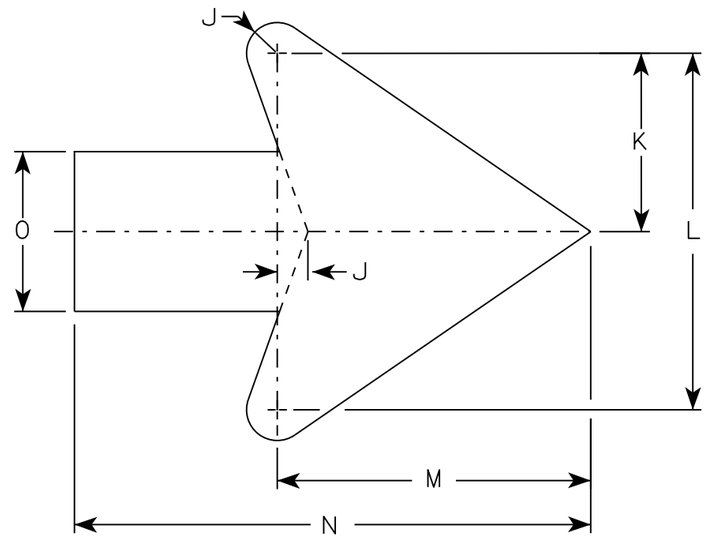
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W087.dgn PLOT DATE : 16-APRIL 2020 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W012-1D

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0

STANDARD SIGN
W012-1D

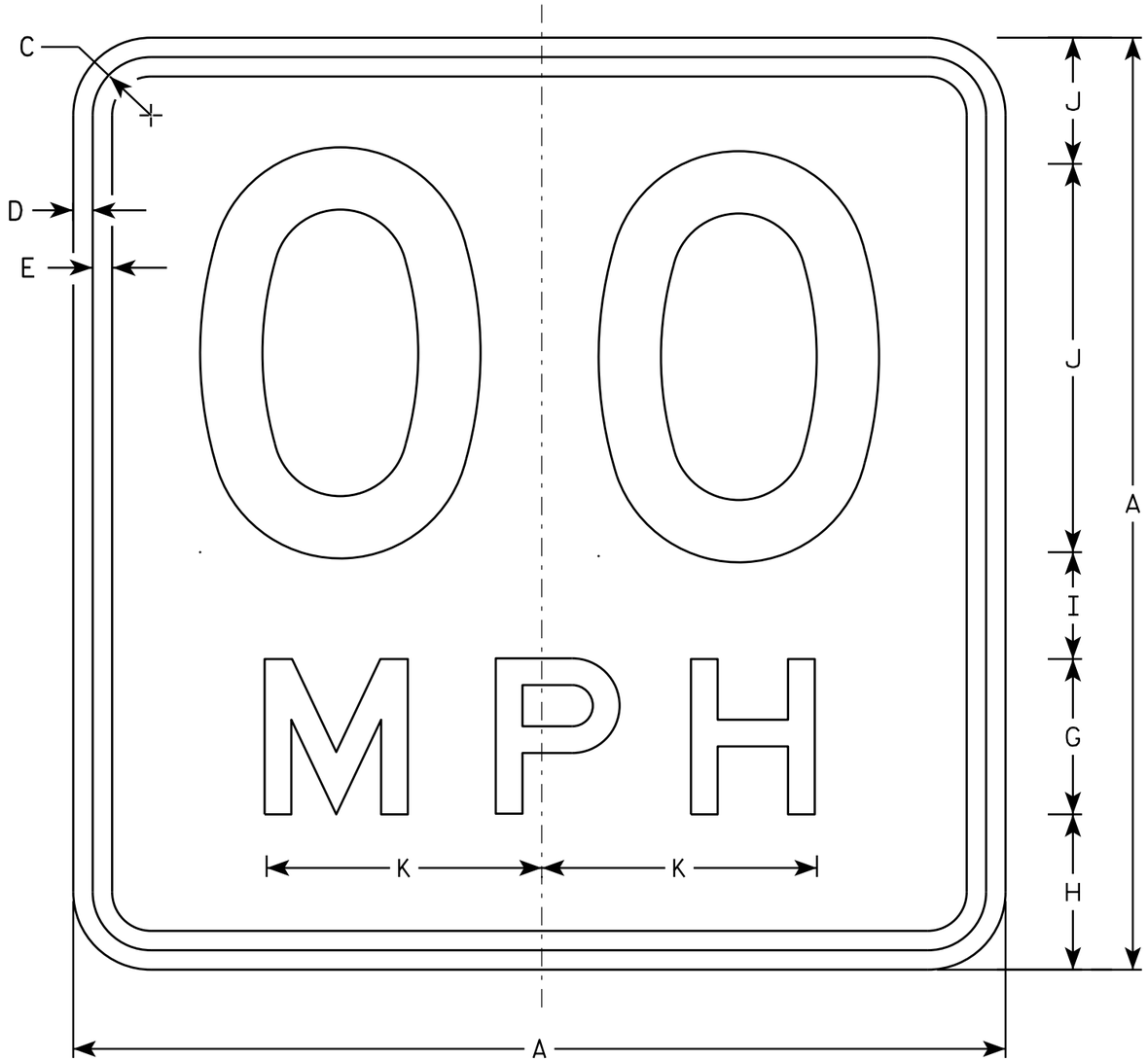
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/28/16 PLATE NO W012-1D.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CADfiles\Projects\tr_stdplate\W0121D.DGN PLOT DATE : 11-AUG-2016 11:28 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.621375:1.000000



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

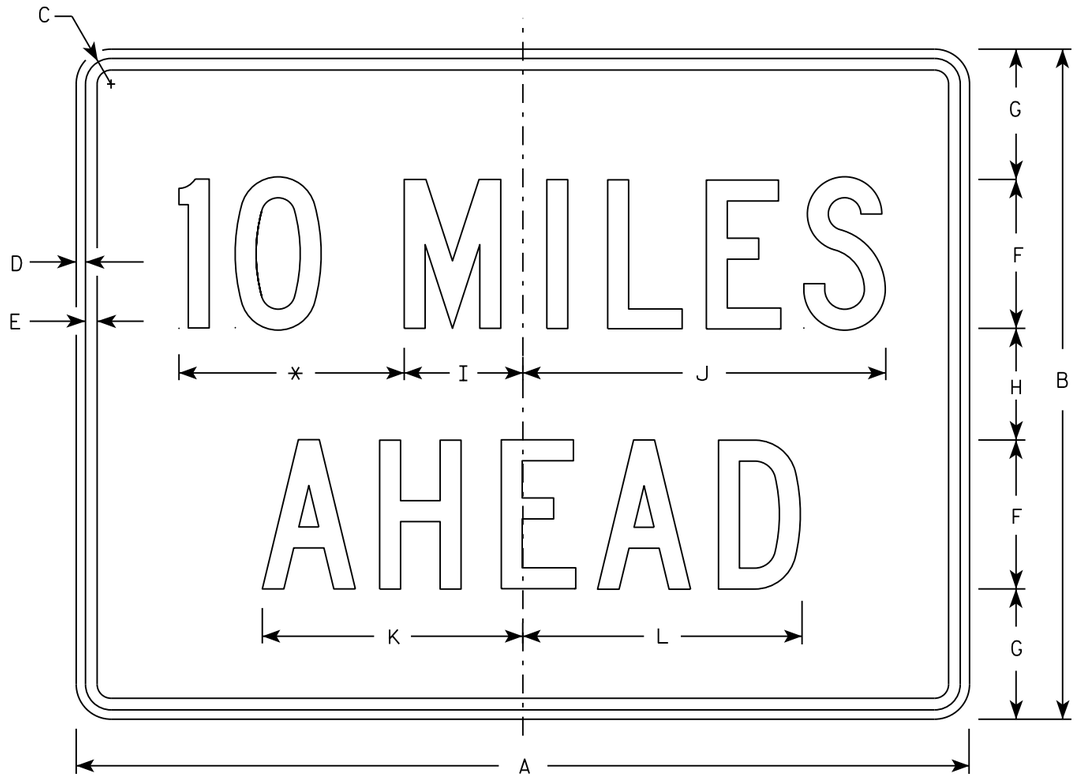
STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

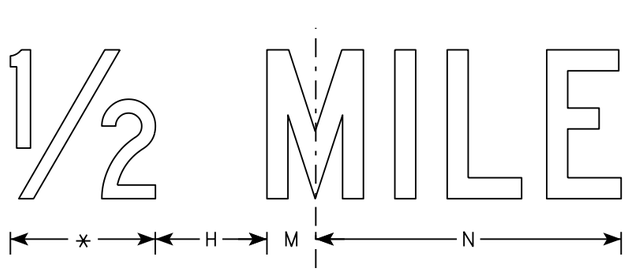
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/13 PLATE 910 W013-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

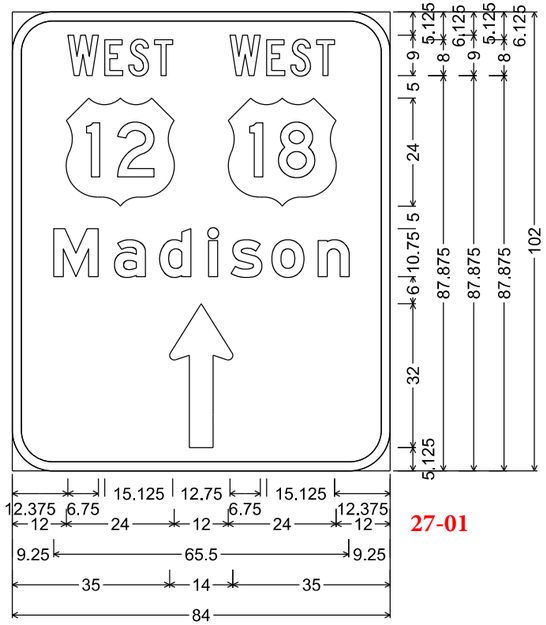
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W057-52.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 911	E

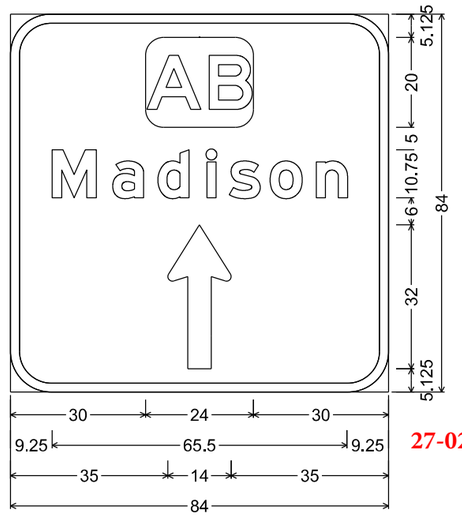
NOTES

1. Signs are Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all Cap Words Series E or as noted.



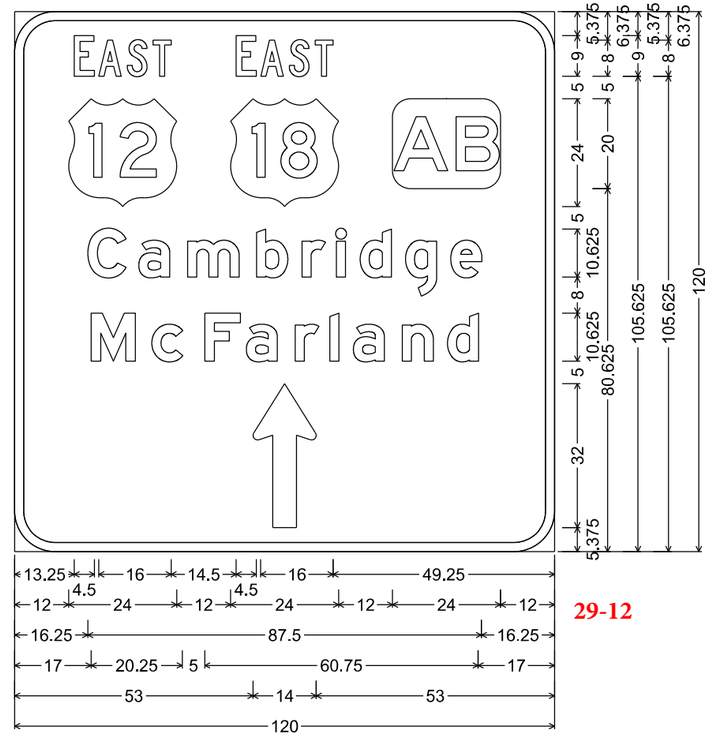
27-01

E6-54A; 9.000" Radius, 2.000" Border
"WEST", C; "WEST", C



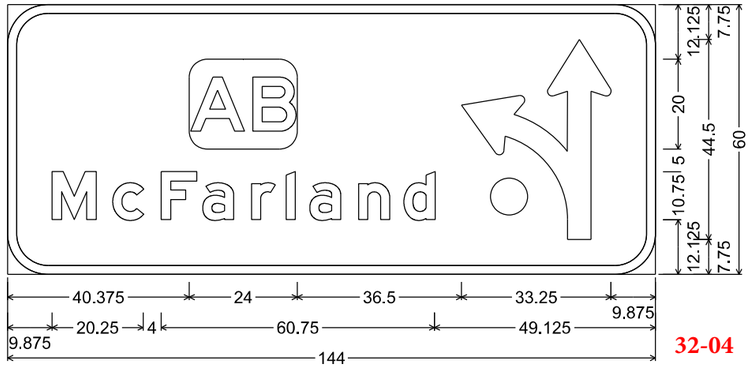
27-02

E6-54A; 9.000" Radius, 2.000" Border



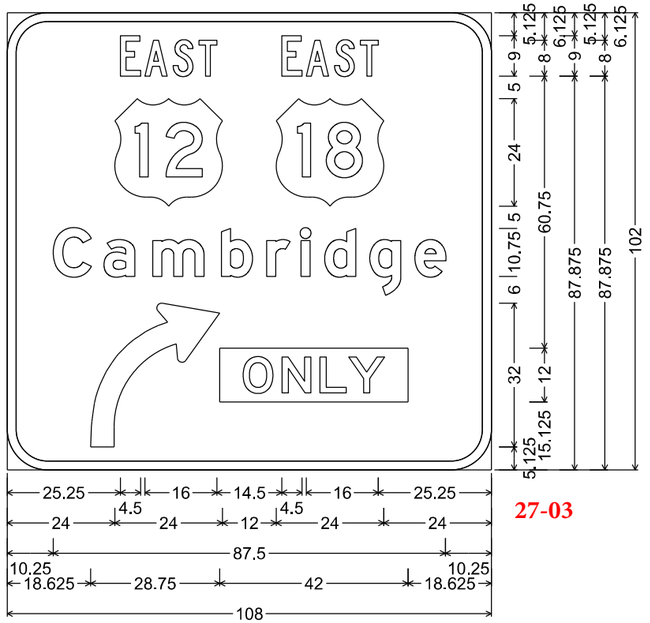
29-12

E6-54A; 9.000" Radius, 2.000" Border
"EAST", C; "EAST", C



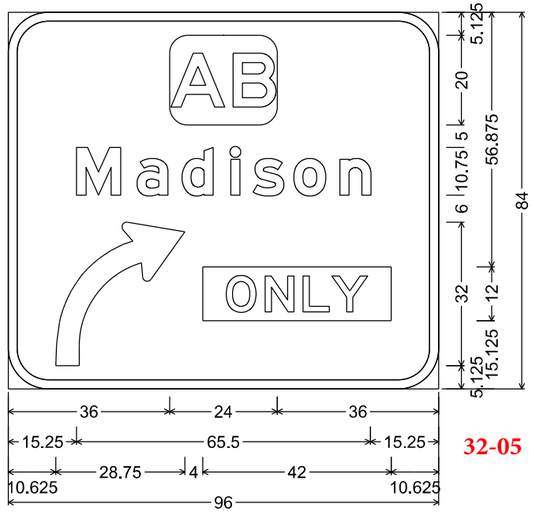
32-04

E6-52; 9.000" Radius, 2.000" Border



27-03

E6-54R; 9.000" Radius, 2.000" Border
"EAST", C; "EAST", C; "Cambridge"

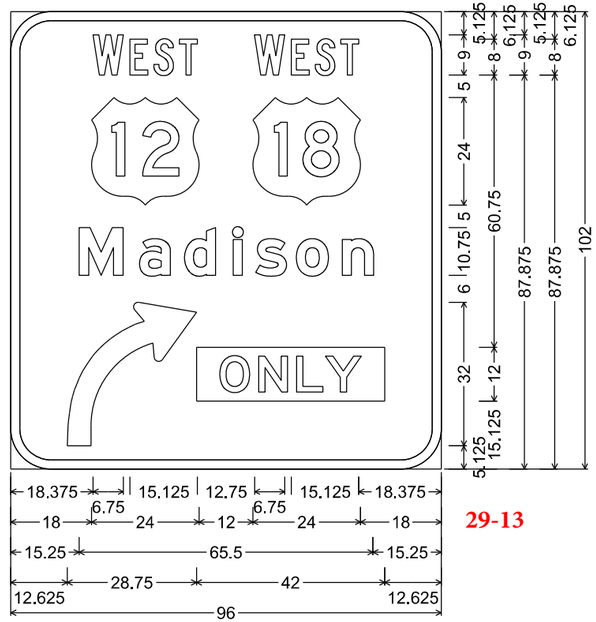


32-05

E6-54R; 9.000" Radius, 2.000" Border

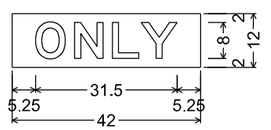
NOTES

1. Signs are Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all Cap Words Series E or as noted.
4. Exit Only Plaque background on Yellow Type F Reflective Sheeting with Black Non-Reflective Message

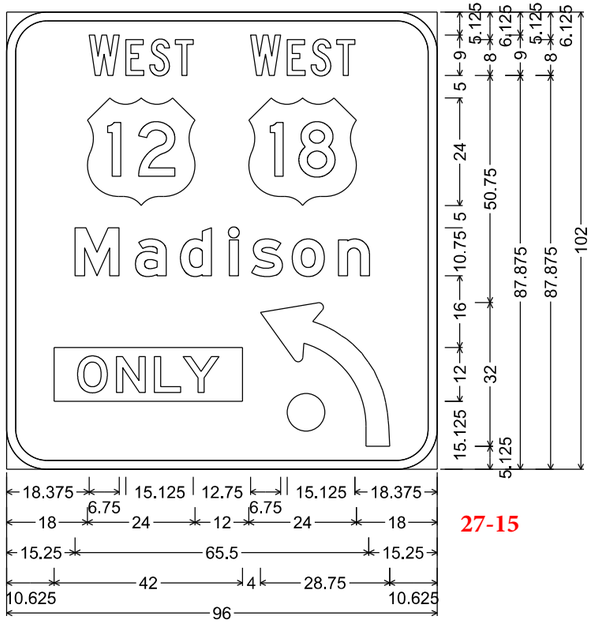


29-13

E6-54R; 9.000" Radius, 2.000" Border
"WEST", C; "WEST", C

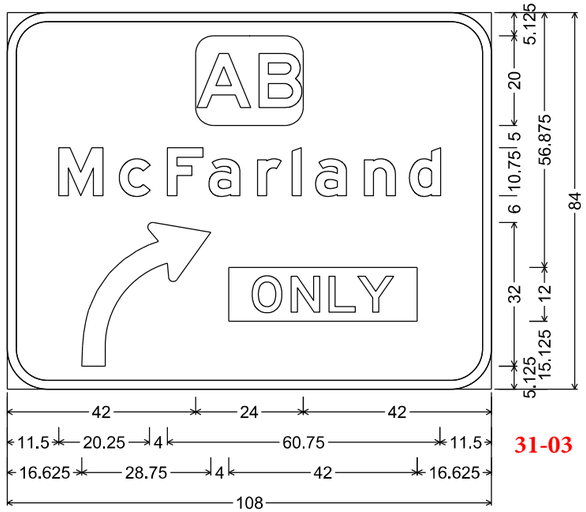


No border, Black on, Fluorescent yellow
"ONLY", E;



27-15

E6-54L; 9.000" Radius, 2.000" Border
"WEST", C; "WEST", C; "Madison"



31-03

E6-54R; 9.000" Radius, 2.000" Border

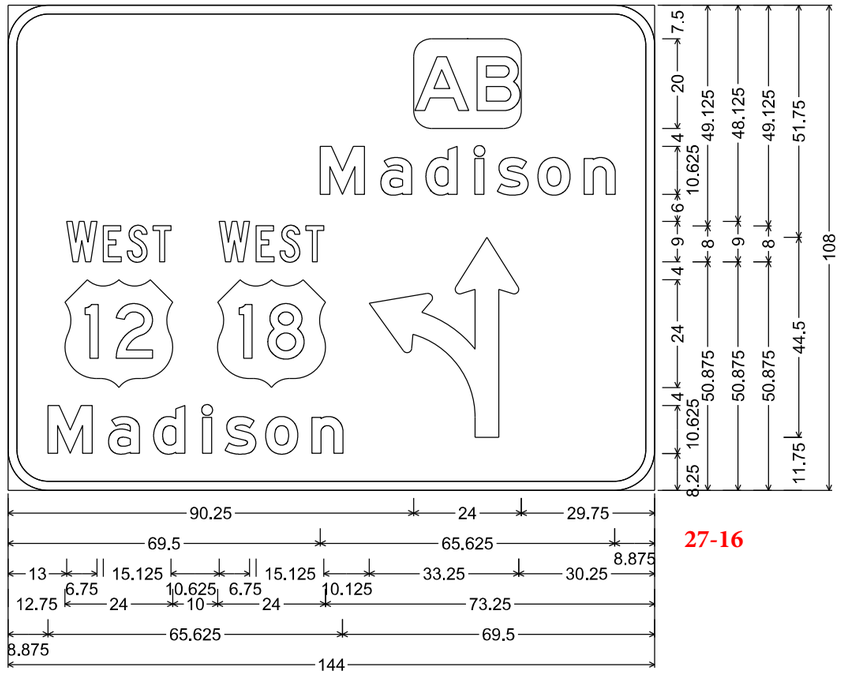
7

7

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO: 913	E

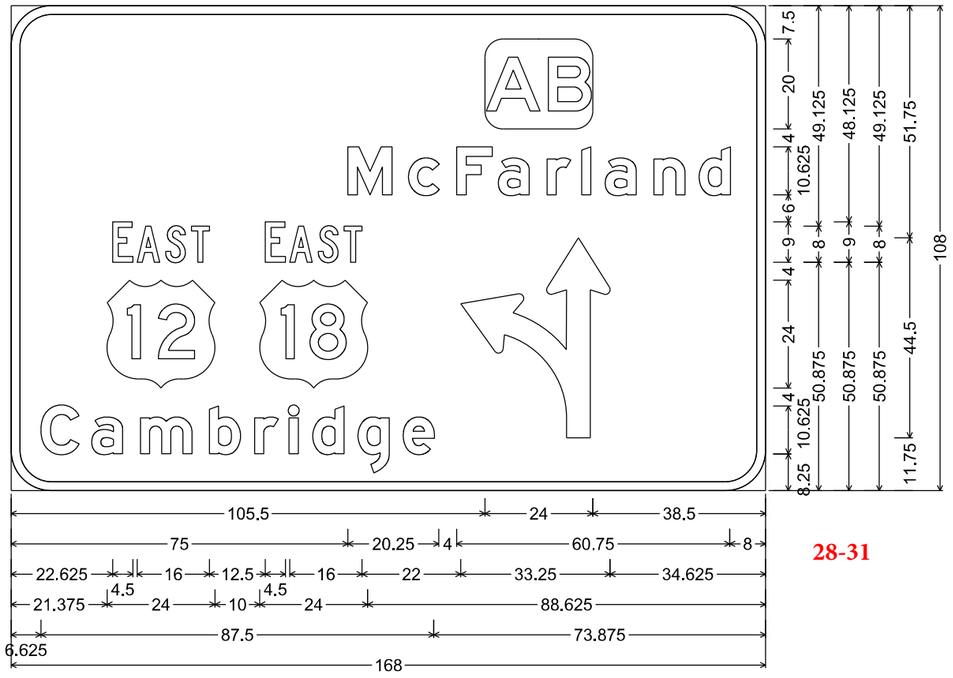
NOTES

1. Signs are Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all Cap Words Series E or as noted.



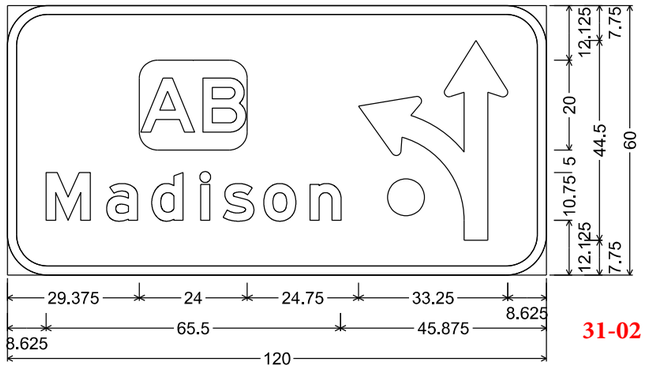
27-16

E6-52; 9.000" Radius, 2.000" Border
"WEST", C; "WEST", C



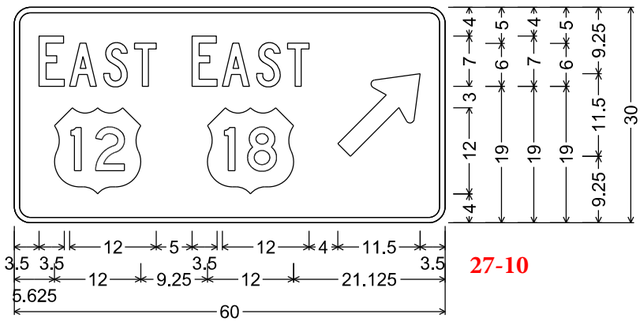
28-31

E6-52; 9.000" Radius, 2.000" Border
"EAST", C; "EAST", C;



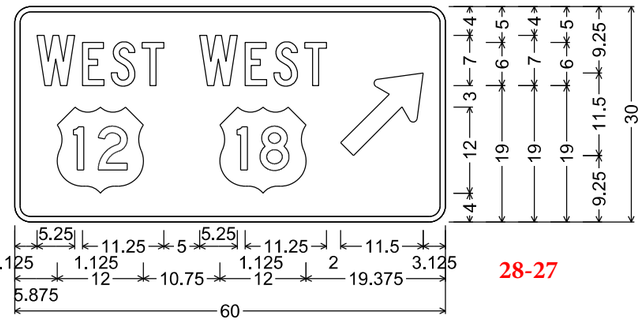
31-02

E6-52; 9.000" Radius, 2.000" Border



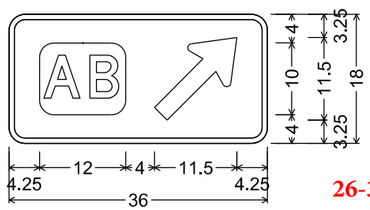
27-10

D1-2; 2.250" Radius, 0.750" Border
"EAST", C; "EAST", C



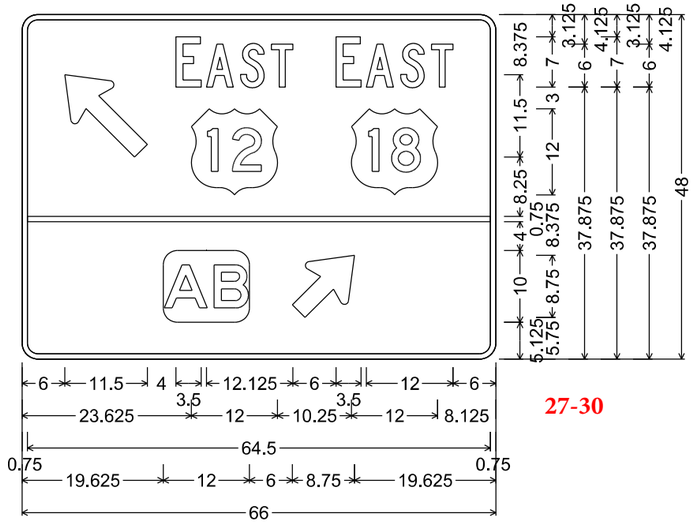
28-27

D1-2; 2.250" Radius, 0.750" Border
"WEST", C; "WEST", C;



26-30
26-17

D1-1; 2.250" Radius, 0.750" Border

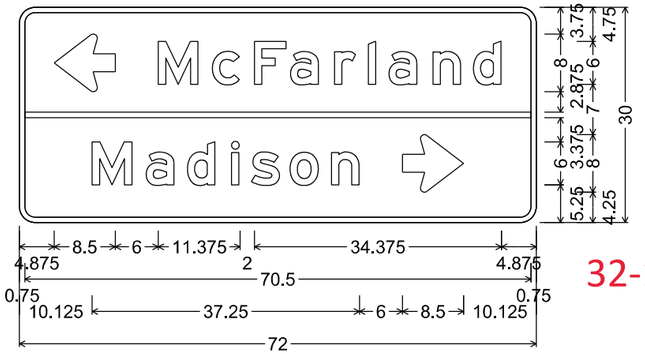


27-30

D1-3; 2.250" Radius, 0.750" Border
"EAST", C; "EAST", C

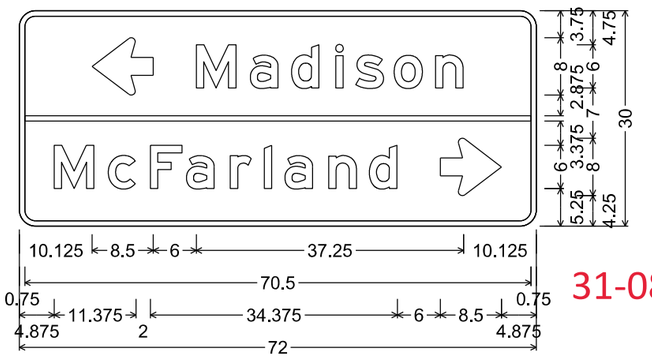
NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



32-10

D1-2; 2.250" Radius, 0.750" Border



31-08

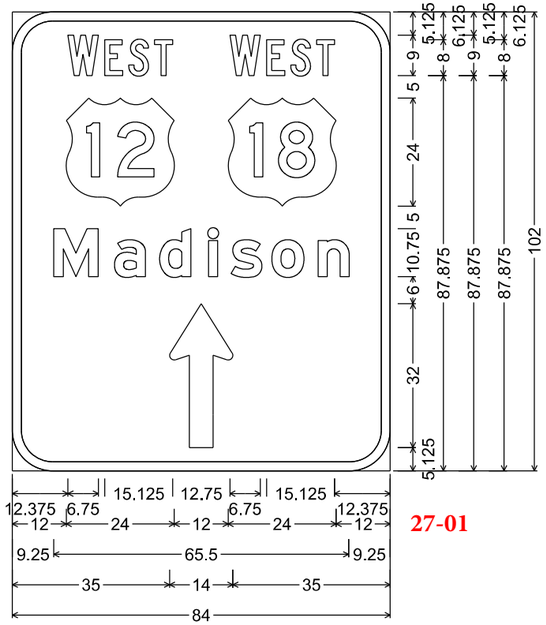
D1-2; 2.250" Radius, 0.750" Border

7

7

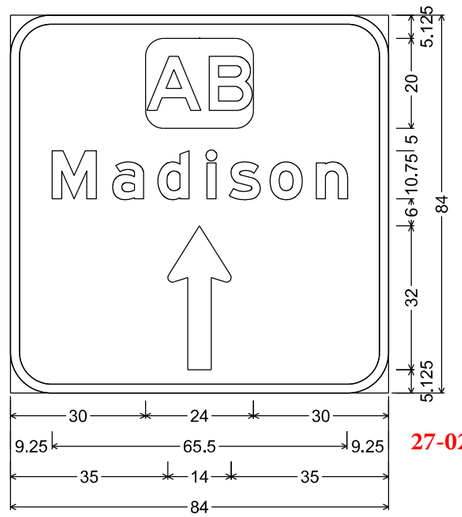
NOTES

1. Signs are Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all Cap Words Series E or as noted.



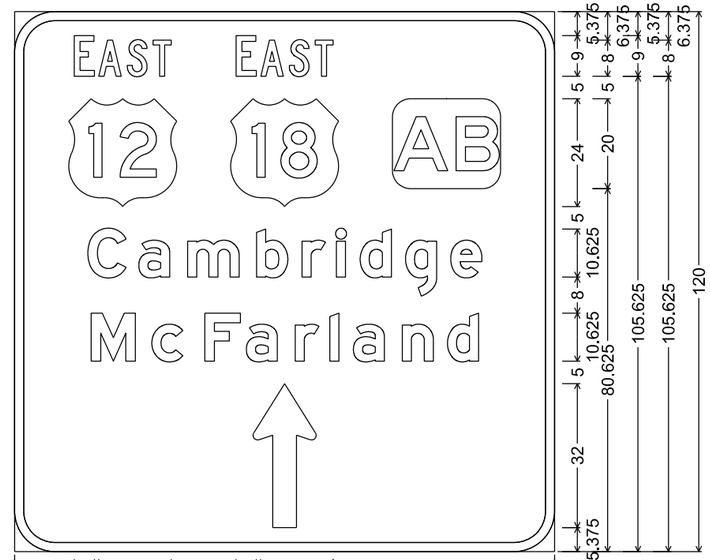
27-01

E6-54A; 9.000" Radius, 2.000" Border
"WEST", C; "WEST", C



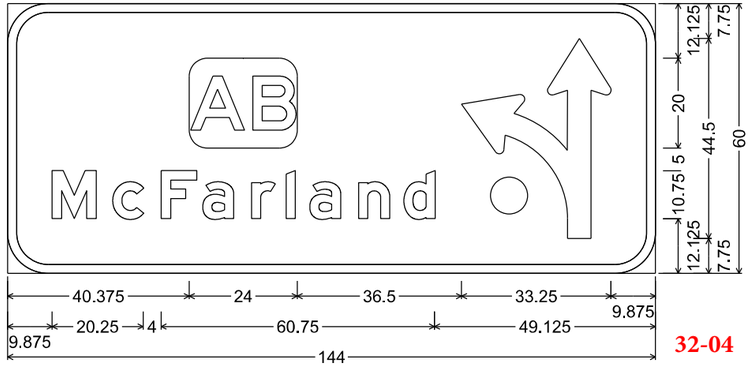
27-02

E6-54A; 9.000" Radius, 2.000" Border



29-12

E6-54A; 9.000" Radius, 2.000" Border
"EAST", C; "EAST", C

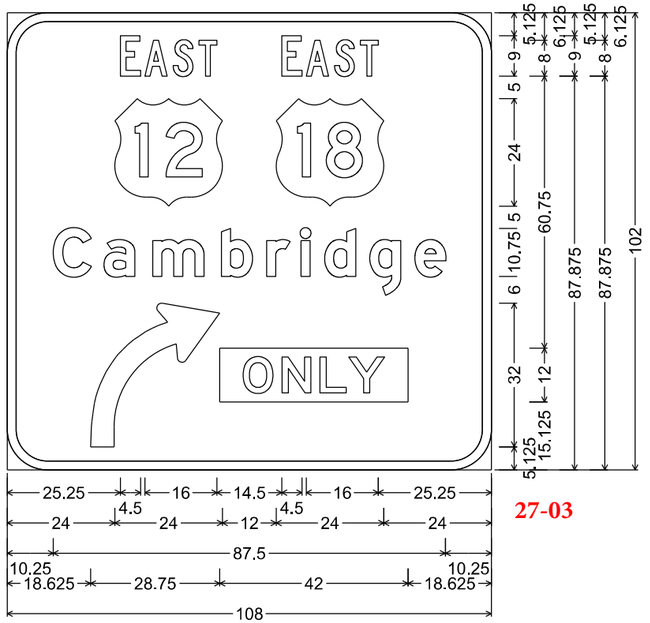


32-04

E6-52; 9.000" Radius, 2.000" Border

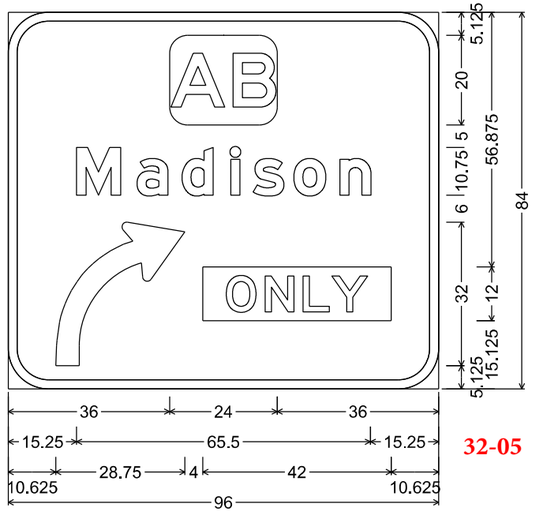
7

7



27-03

E6-54R; 9.000" Radius, 2.000" Border
"EAST", C; "EAST", C; "Cambridge"

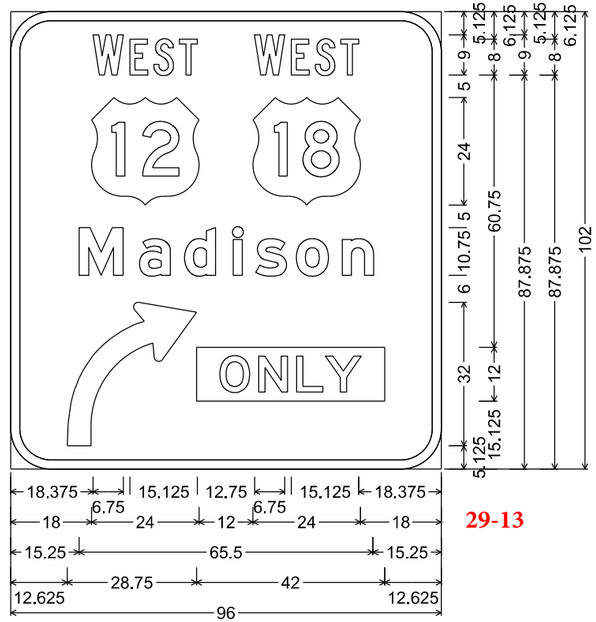


32-05

E6-54R; 9.000" Radius, 2.000" Border

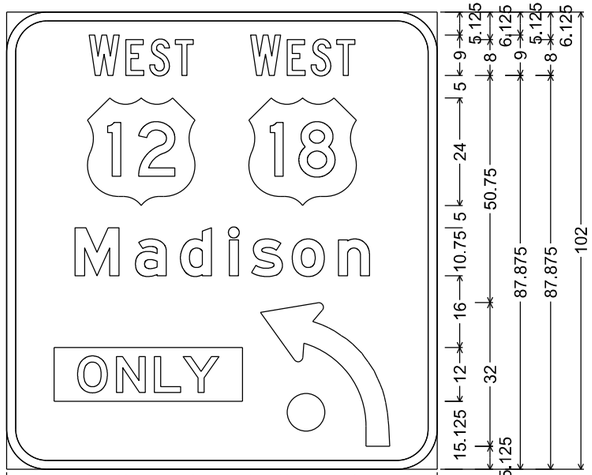
NOTES

1. Signs are Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all Cap Words Series E or as noted.
4. Exit Only Plaque background on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



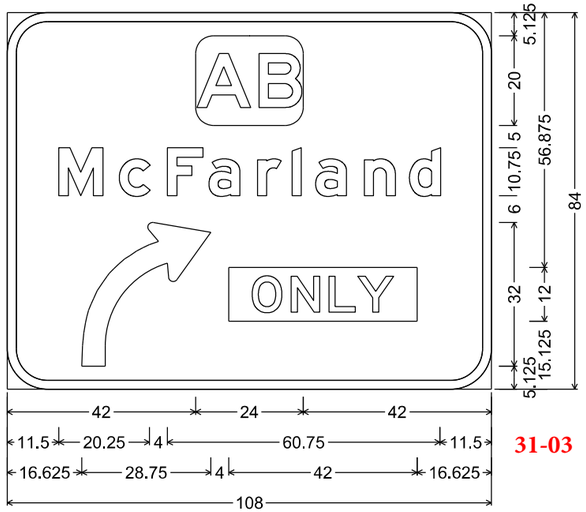
29-13

E6-54R; 9.000" Radius, 2.000" Border
"WEST", C; "WEST", C



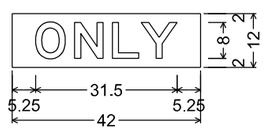
27-15

E6-54L; 9.000" Radius, 2.000" Border
"WEST", C; "WEST", C; "Madison"



31-03

E6-54R; 9.000" Radius, 2.000" Border



No border, Black on, Fluorescent yellow
"ONLY", E;

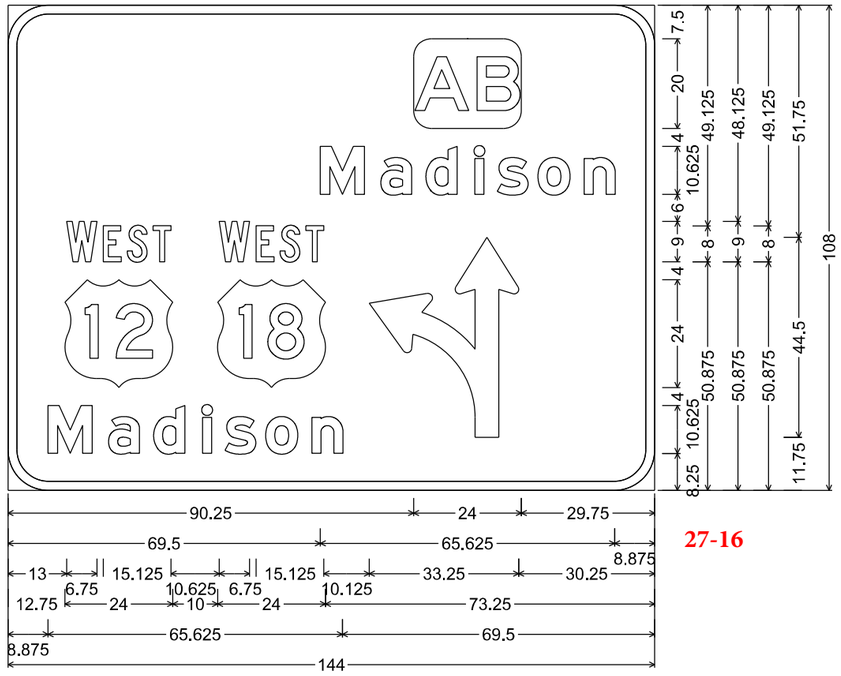
7

7

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO: 917	E

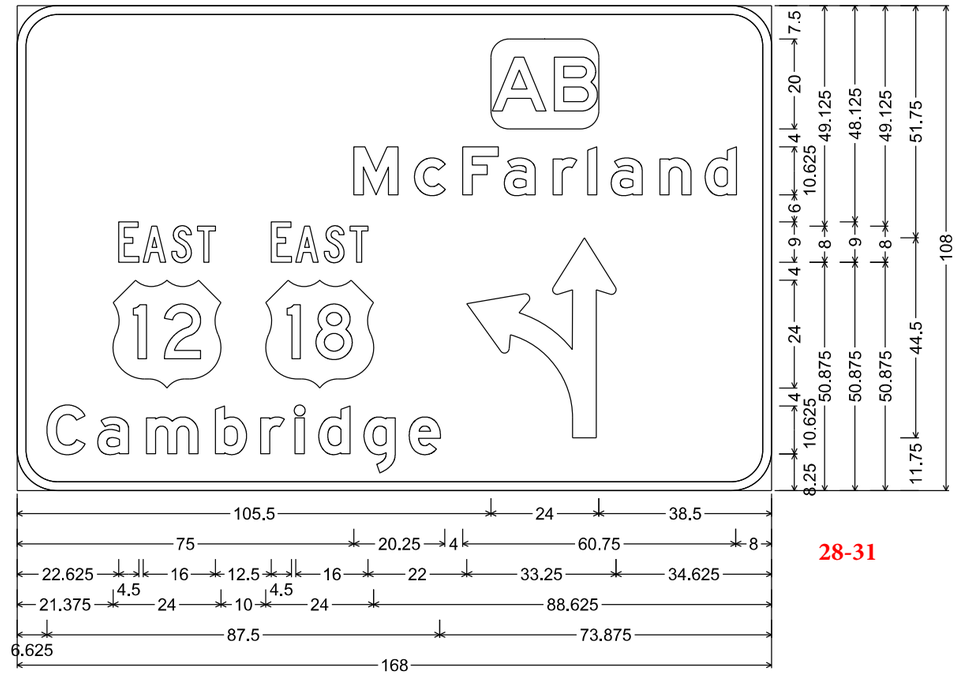
NOTES

1. Signs are Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all Cap Words Series E or as noted.



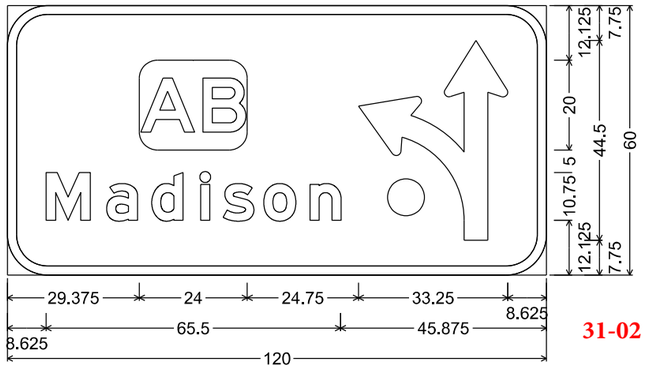
27-16

E6-52; 9.000" Radius, 2.000" Border
"WEST", C; "WEST", C



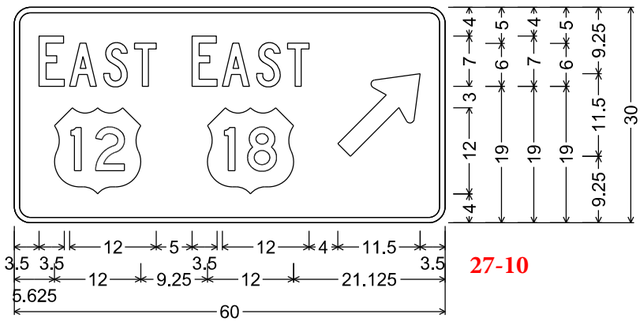
28-31

E6-52; 9.000" Radius, 2.000" Border
"EAST", C; "EAST", C;



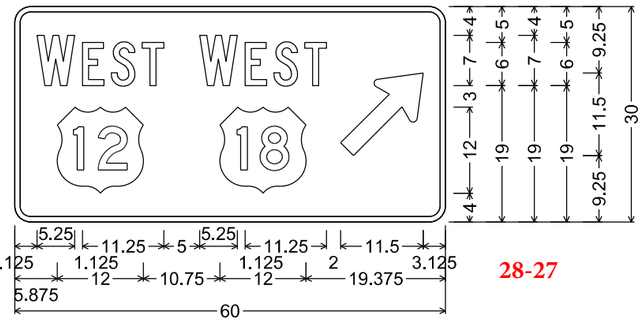
31-02

E6-52; 9.000" Radius, 2.000" Border



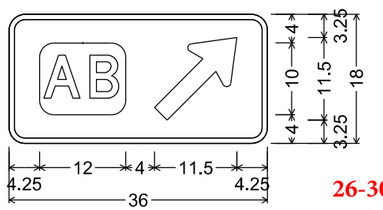
27-10

D1-2; 2.250" Radius, 0.750" Border
"EAST", C; "EAST", C



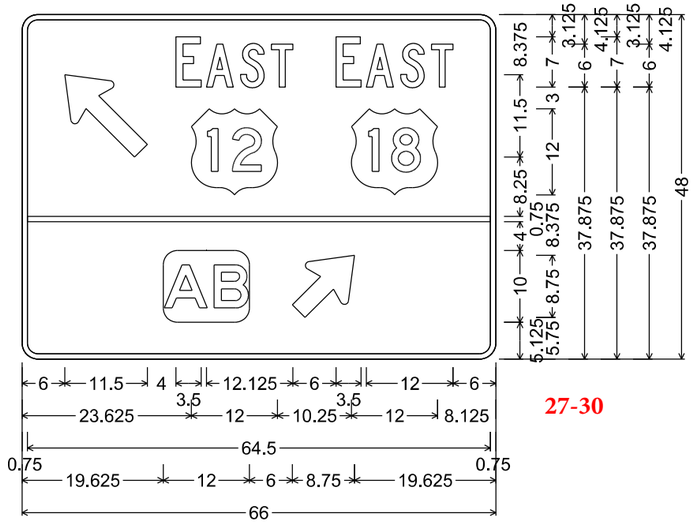
28-27

D1-2; 2.250" Radius, 0.750" Border
"WEST", C; "WEST", C;



26-30
26-17

D1-1; 2.250" Radius, 0.750" Border

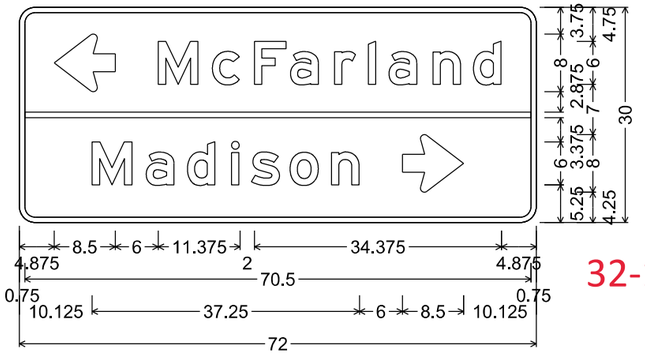


27-30

D1-3; 2.250" Radius, 0.750" Border
"EAST", C; "EAST", C

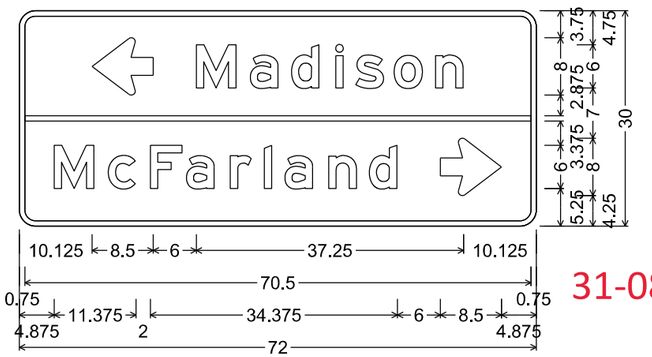
NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



32-10

D1-2; 2.250" Radius, 0.750" Border



31-08

D1-2; 2.250" Radius, 0.750" Border

7

7

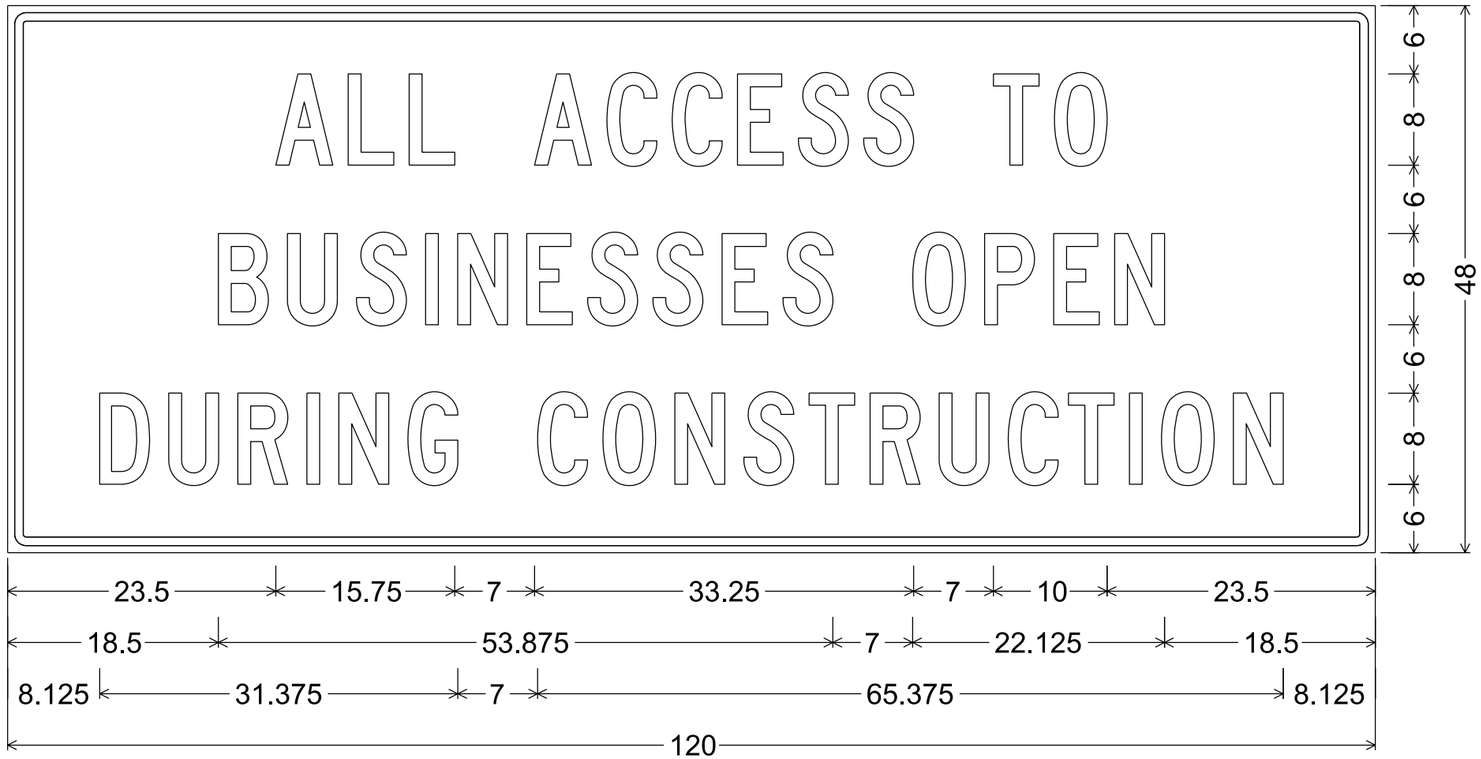
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO: 919	E

FILE NAME : C:\CAEfiles\Projects\tr_d1_1133a621.DGN PLOT DATE : 7-JUNE 2021 2:30 PLOT BY : dotc4c PLOT NAME : PLOT SCALE :

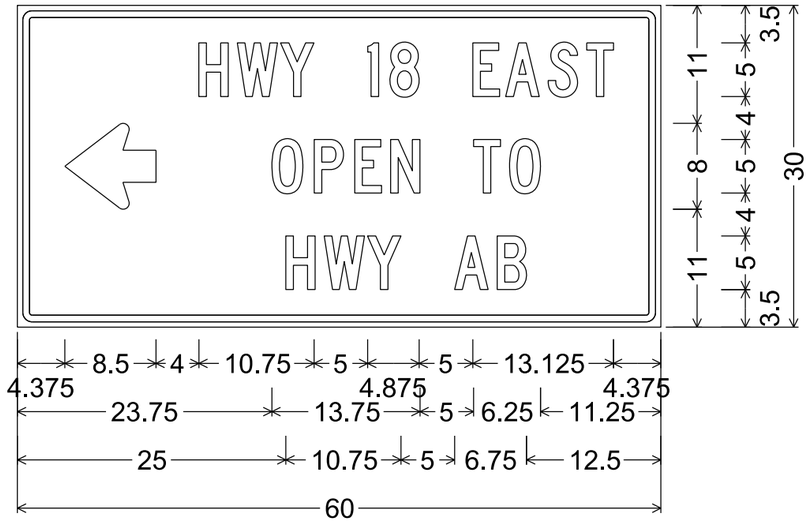
WISDOT/CADDS SHEET 42

NOTES

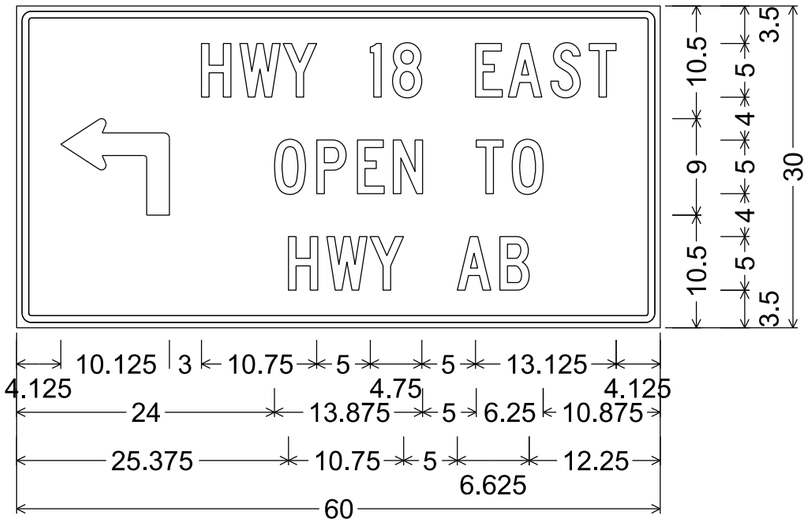
1. Fixed Message Sign - Type II Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



1.625" Radius, 0.750" Border, 0.625" Indent



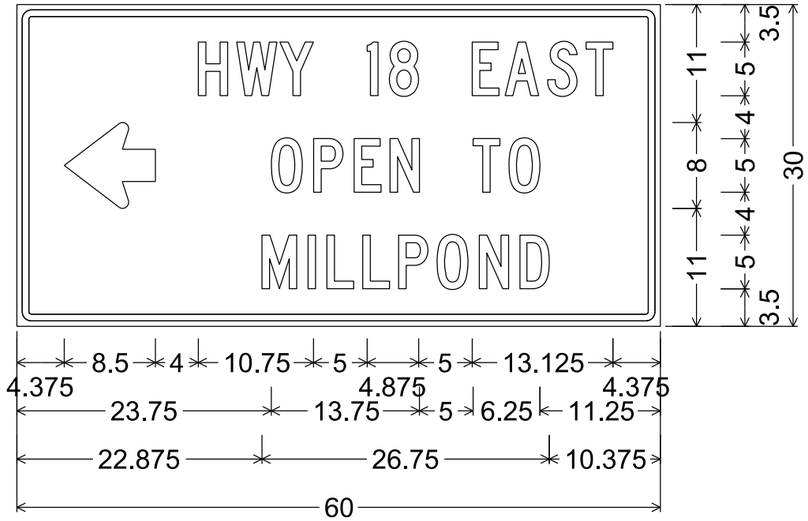
1.375" Radius, 0.625" Border, 0.500" Indent



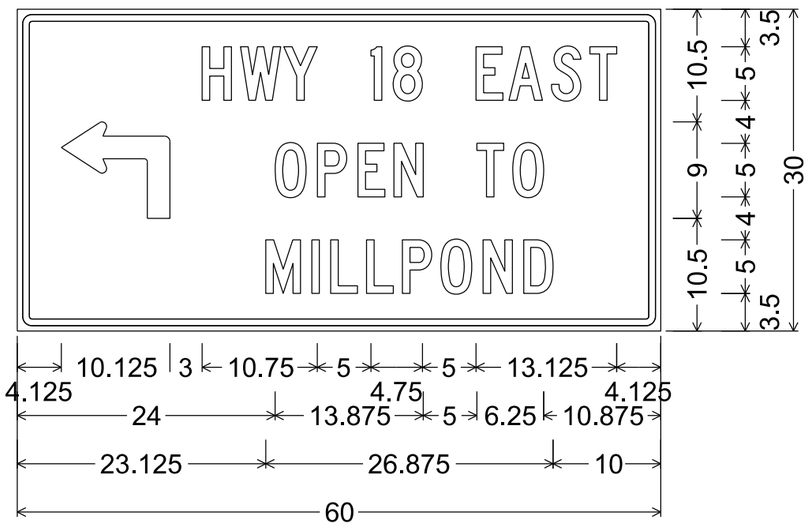
1.375" Radius, 0.625" Border, 0.500" Indent

NOTES

1. Fixed Message Signs - Type II Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C



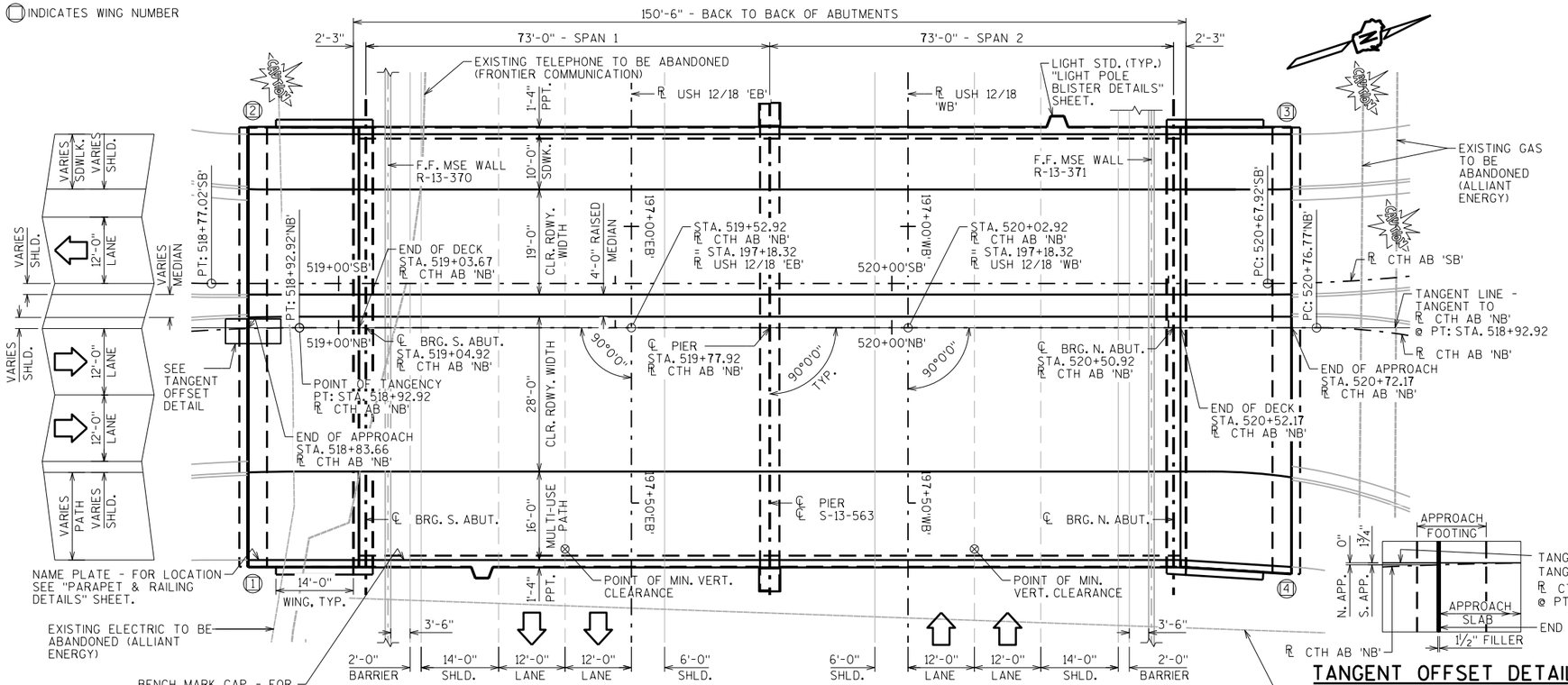
1.375" Radius, 0.625" Border, 0.500" Indent



1.375" Radius, 0.625" Border, 0.500" Indent

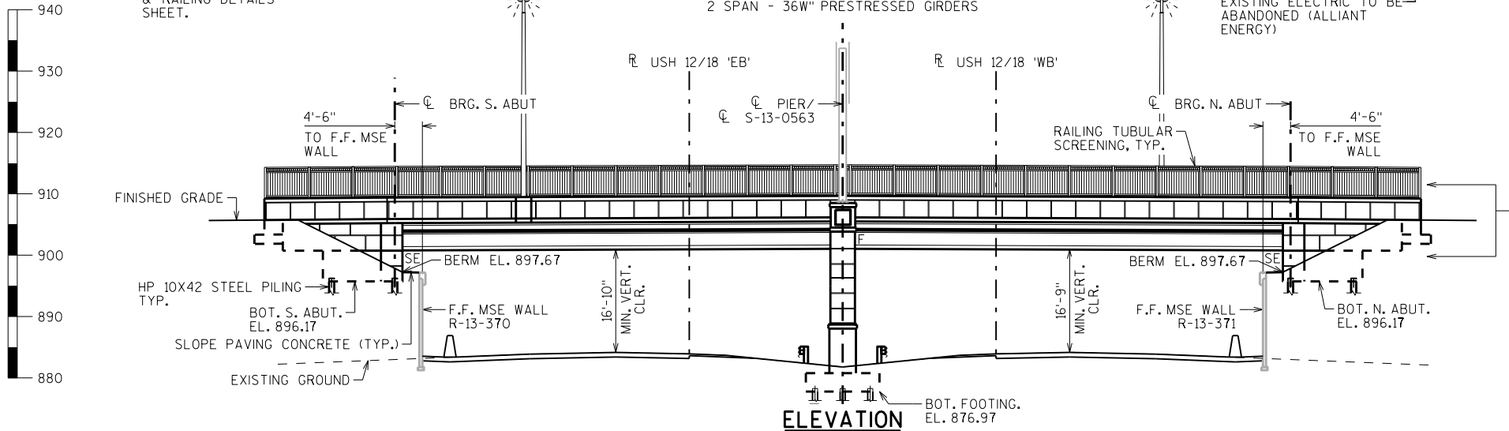
STATE PROJECT NUMBER

3080-01-75



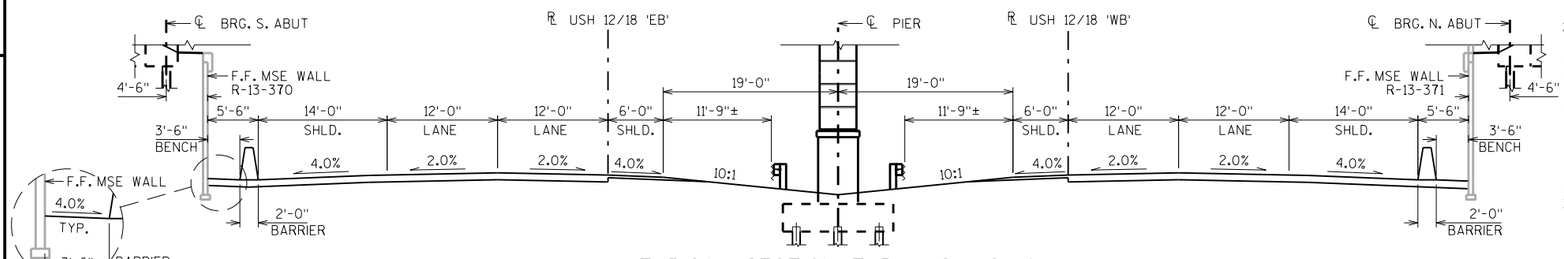
PLAN

2 SPAN - 36W" PRESTRESSED GIRDERS



ELEVATION

NORMAL TO USH 12/18 - LOOKING WEST



TYPICAL SECTION THRU USH 12/18

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.10
OPERATING RATING FACTOR: RF = 1.43
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
- SUPERSTRUCTURE & STRUCTURAL APPROACH SLAB — f'c = 4,000 P.S.I.
- ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT:
- GRADE 60 — fy = 60,000 P.S.I.
- STAINLESS, GRADE 60 — fy = 60,000 P.S.I.

36W" PRESTRESSED GIRDERS:
- CONCRETE MASONRY — f'c = 8,000 P.S.I.
- STRANDS: 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ✱✱ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
S. ABUTMENT ESTIMATED 75'-0" LONG.
N. ABUTMENT ESTIMATED 63'-0" LONG.

PIER TO BE SUPPORTED ON HP 10 X 42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ✱✱ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 48'-0" LONG.

✱✱ THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

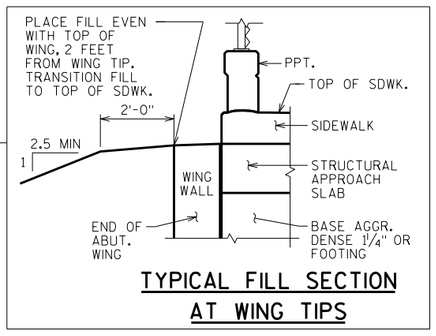
TRAFFIC VOLUME

CTH AB ◪	USH 12/18
ADT = 17,300 (2043)	ADT = 25,300 (2043)
R.D.S. = 30 M.P.H.	R.D.S. = 60 M.P.H.

◪ BETWEEN MILLPOND RD. AND US HWY 12&18 SERVICE RD.

TANGENT OFFSET DETAIL

SOUTH APPROACH SHOWN
NORTH APPROACH SIMILAR



TYPICAL FILL SECTION AT WING TIPS

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & PROFILES
3. QUANTITIES & GENERAL NOTES
4. SUBSURFACE EXPLORATION
5. SOUTH ABUTMENT
6. SOUTH ABUTMENT & WING 1 DETAILS
7. SOUTH ABUTMENT & WING 2 DETAILS
8. NORTH ABUTMENT
9. NORTH ABUTMENT & WING 3 DETAILS
10. NORTH ABUTMENT & WING 4 DETAILS
11. PIER
12. PIER FOOTINGS
13. PIER DETAILS
14. 36W" PRESTRESSED GIRDER
15. 36W" PRESTRESSED GIRDER DETAILS
16. STEEL DIAPHRAGM
17. SUPERSTRUCTURE PLAN
18. SUPERSTRUCTURE CROSS SECTION THRU ROADWAY
19. SUPERSTRUCTURE DETAILS
20. SIDEWALK/MEDIAN DETAILS
21. SUPERSTRUCTURE REINF. AND DECK ELEVATIONS
22. CONDUIT DETAILS
23. LIGHT POLE BLISTER DETAILS
24. PARAPET & RAILING DETAILS
25. RAILING DETAILS
26. ABUTMENT & SUPERSTRUCTURE AESTHETIC DETAILS
27. PIER & SUPERSTRUCTURE AESTHETIC DETAILS
28. SOUTH STRUCTURAL APPROACH SLAB
29. SOUTH STRUCTURAL APPROACH SLAB DETAILS
30. NORTH STRUCTURAL APPROACH SLAB
31. NORTH STRUCTURAL APPROACH SLAB DETAILS
32. ALTERNATE CONSTRUCTION JOINT
33. SLOPE PAVING (CONCRETE CAST-IN-PLACE)

STRUCTURE DESIGN CONTACTS:

SHANNON LIPE (608) 266-2369
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED DMB 03/14/22
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-13-893

CTH AB OVER USH 12/18

COUNTY	TOWN
DANE	COTTAGE GROVE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	CK'D.	DRAWN BY	PLANS CK'D.
SCL	KHB	DDS/RLR	KHB/JRS

GENERAL PLAN

SHEET 1 OF 33

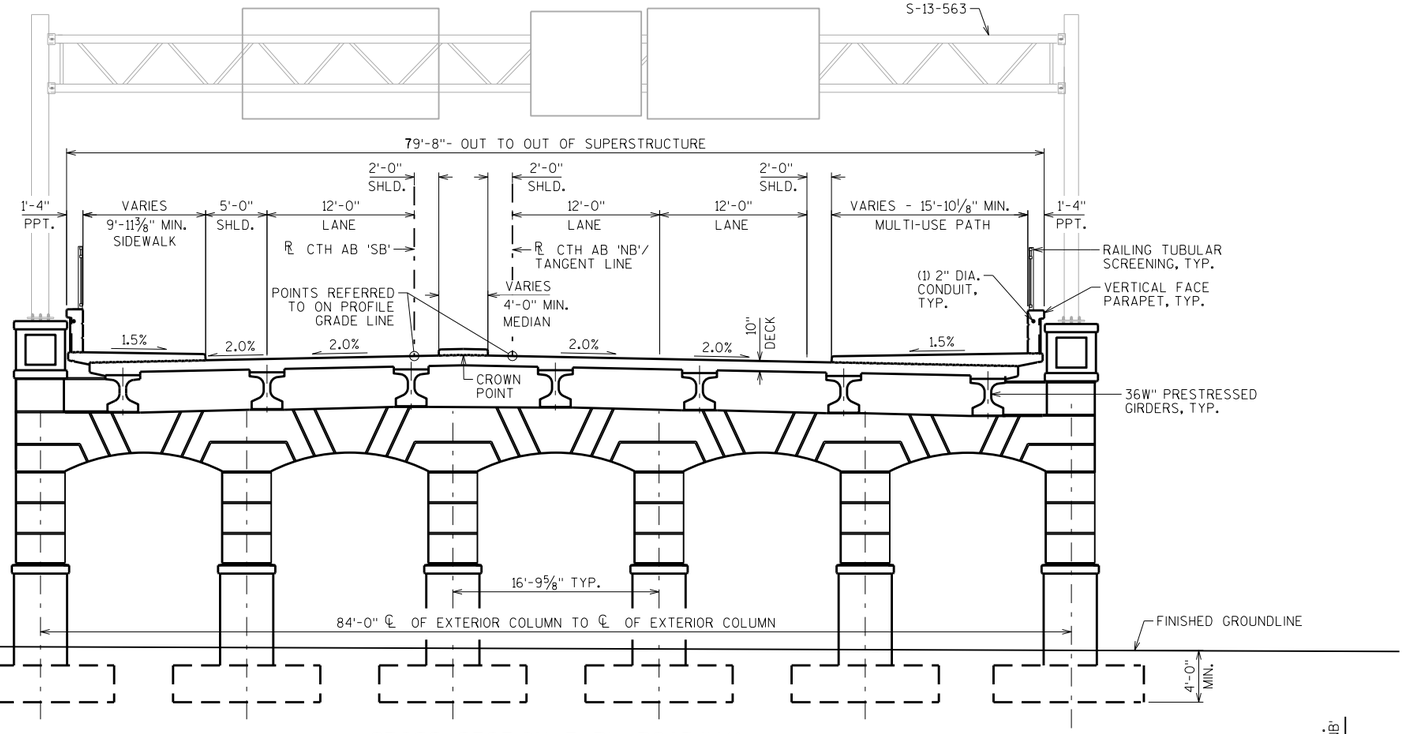
922

I.D. 3080-01-05A DATE: JAN. 2022

SCALE = 12.00

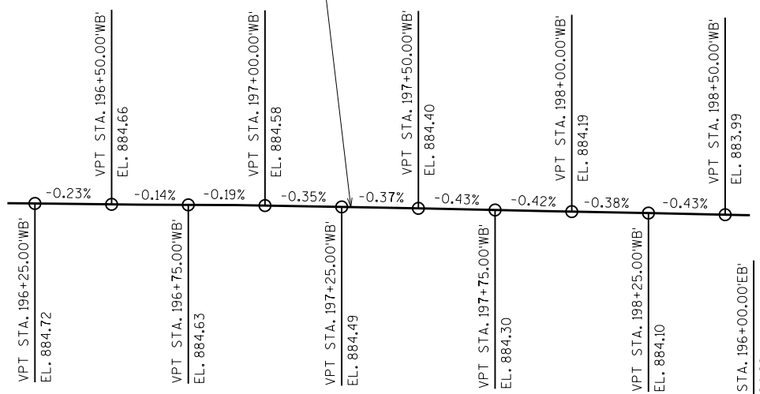
STATE PROJECT NUMBER

3080-01-75

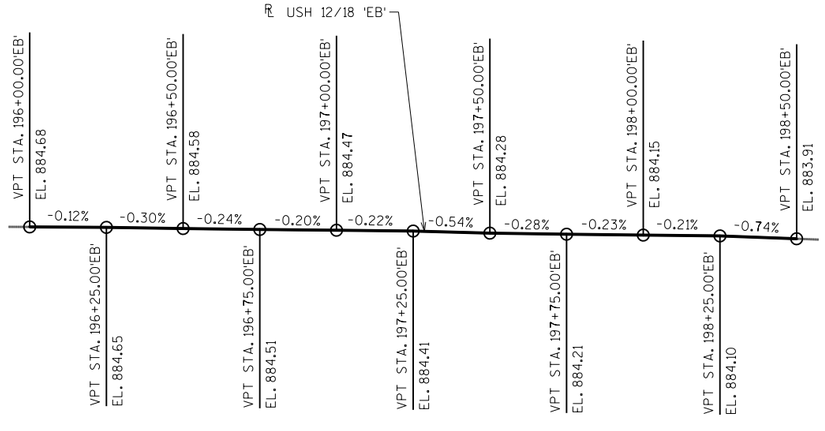


CROSS SECTION THRU ROADWAY

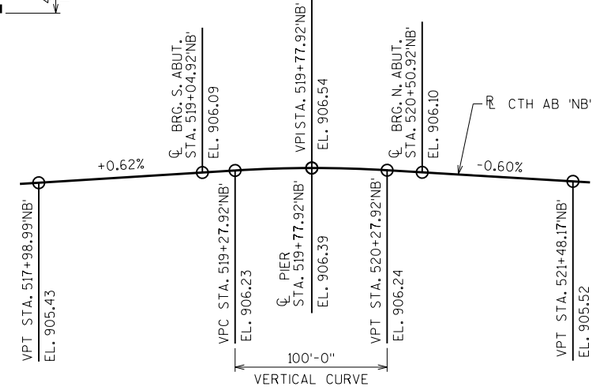
AT PIER - LOOKING NORTH
(PILING OMITTED FOR CLARITY)



PROFILE GRADE LINE USH 12/18 'WB'



PROFILE GRADE LINE USH 12/18 'EB'



PROFILE GRADE LINE CTH AB 'NB'

(NOTE: CTH AB 'SB' PROFILE GRADE LINE MATCHES CTH AB 'NB' AT STA. 519+00 - 521+30.)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY SCL | PLANS CK'D. KHB

CROSS SECTION & PROFILES

SHEET 2

923

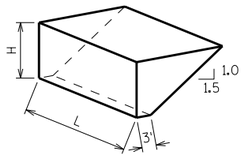
SCALE = 6.00

8

8

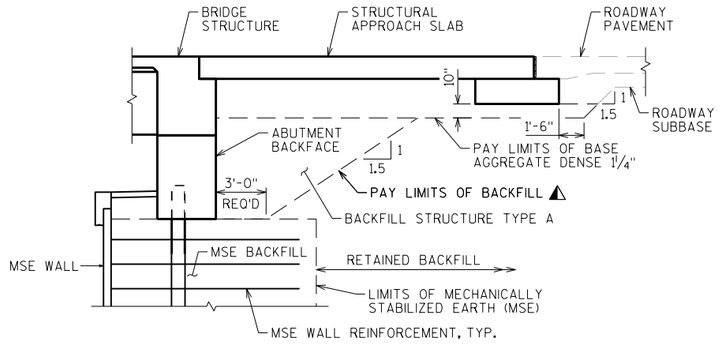
STATE PROJECT NUMBER

3080-01-75



ABUTMENT BACKFILL DIAGRAM

L = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
V_{CY} = V_{CF} /27
V_{TON} = V_{CY} (2.0)



STRUCTURE BACKFILL DETAIL

◭ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-13-893" SHALL BE THE EXISTING GROUNDLINE AT THE PIER.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A. ALSO EXCLUDED IS THE "BASE AGGREGATE DENSE 1 1/4-INCH" AS DETAILED ON THE STRUCTURAL APPROACH SLAB SHEETS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK, SIDEWALKS, MEDIANS, APPROACH SLAB SURFACES, EXPOSED CURB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AND SIDEWALKS AT ABUTMENT DIAPHRAGMS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON THE ABUTMENT DETAILS AND SLOPE PAVING DETAILS.

THE COLOR OF THE NON-STAINING NON-BITUMINOUS JOINT SEALER SHALL MATCH THE COLORS OF THE CONCRETE STAINING.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "36W PRESTRESSED GIRDER DETAILS" SHEET.

COORDINATE THE CONSTRUCTION OF B-13-893 WITH THE CONSTRUCTION OF RETAINING WALLS R-13-370 AND R-13-371 AND SIGN STRUCTURE S-13-563.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	CATEGORY	BID ITEMS	UNIT	SUPER.	S. STRUCT. APP. SLAB	SOUTH ABUT.	PIER	NORTH ABUT.	N. STRUCT. APP. SLAB	TOTALS
206.1000	0040	EXCAVATION FOR STRUCTURES BRIDGES B-13-0893	LS	———	———	———	———	———	———	1
210.1500	0040	BACKFILL STRUCTURE TYPE A	TON	———	———	266	———	268	———	534
305.0120	0040	BASE AGGREGATE DENSE 1 1/4-INCH	TON	———	257	———	———	———	256	513
502.0100	0040	CONCRETE MASONRY BRIDGES	CY	636.1	123.6	73.8	208.3	73.9	124.4	1,240
502.3200	0040	PROTECTIVE SURFACE TREATMENT	SY	1,346	176	———	———	———	179	1,701
503.0137	0040	PRESTRESSED GIRDER TYPE I36W-INCH	LF	1,028	———	———	———	———	———	1,028
505.0400	0040	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	———	5,350	9,170	5,360	———	19,880
505.0600	0040	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	118,150	17,350	1,470	33,065	1,470	17,635	189,140
505.0800.S	0040	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	3,060	———	———	———	———	———	3,060
506.2605	0040	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	28	———	———	———	———	———	28
506.4000	0040	STEEL DIAPHRAGMS (B-13-0893)	EACH	12	———	———	———	———	———	12
513.4091	0020	RAILING TUBULAR SCREENING B-13-0893	LF	297	40	———	———	———	40	377
516.0500	0040	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	———	18		18	———	36
517.1010.S	0020	CONCRETE STAINING B-13-0893	SF	6,004	382	491	2,800	492	382	10,551
517.1050.S	0020	ARCHITECTURAL SURFACE TREATMENT B-13-0893	SF	58	———	334		334	———	726
531.8990	0040	ANCHOR ASSEMBLIES POLES ON STRUCTURES	EACH	2	———	———	———	———	———	2
550.1100	0040	PILING STEEL HP 10-INCH X 42 LB	LF	———	———	1,050	3,360	882	———	5,292
604.0400	0040	SLOPE PAVING CONCRETE	SY	———	———	25	———	24	———	49
652.0125	0040	CONDUIT RIGID METALLIC 2-INCH	LF	———	———	11	———	11	———	22
652.0225	0040	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	299	———	35	———	35	———	369
653.0222	0040	JUNCTION BOXES 18X12X6-INCH	EACH	2	———	———	———	———	———	2
		NON-BID ITEMS								
		FILLER	SIZE	———	———	———	———	———	———	½", ¾", 1½"

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY SCL | PLANS CK'D. KHB

QUANTITIES & GENERAL NOTES

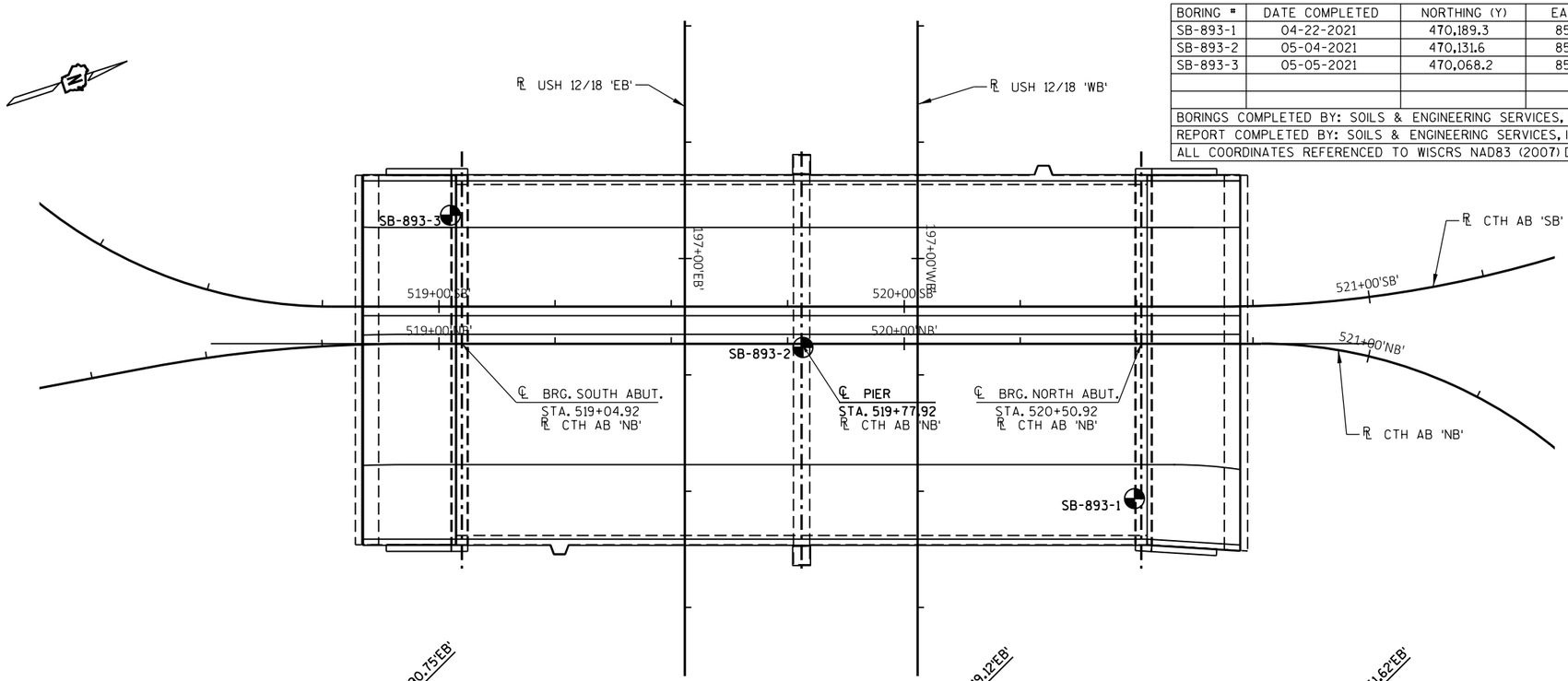
SHEET 3

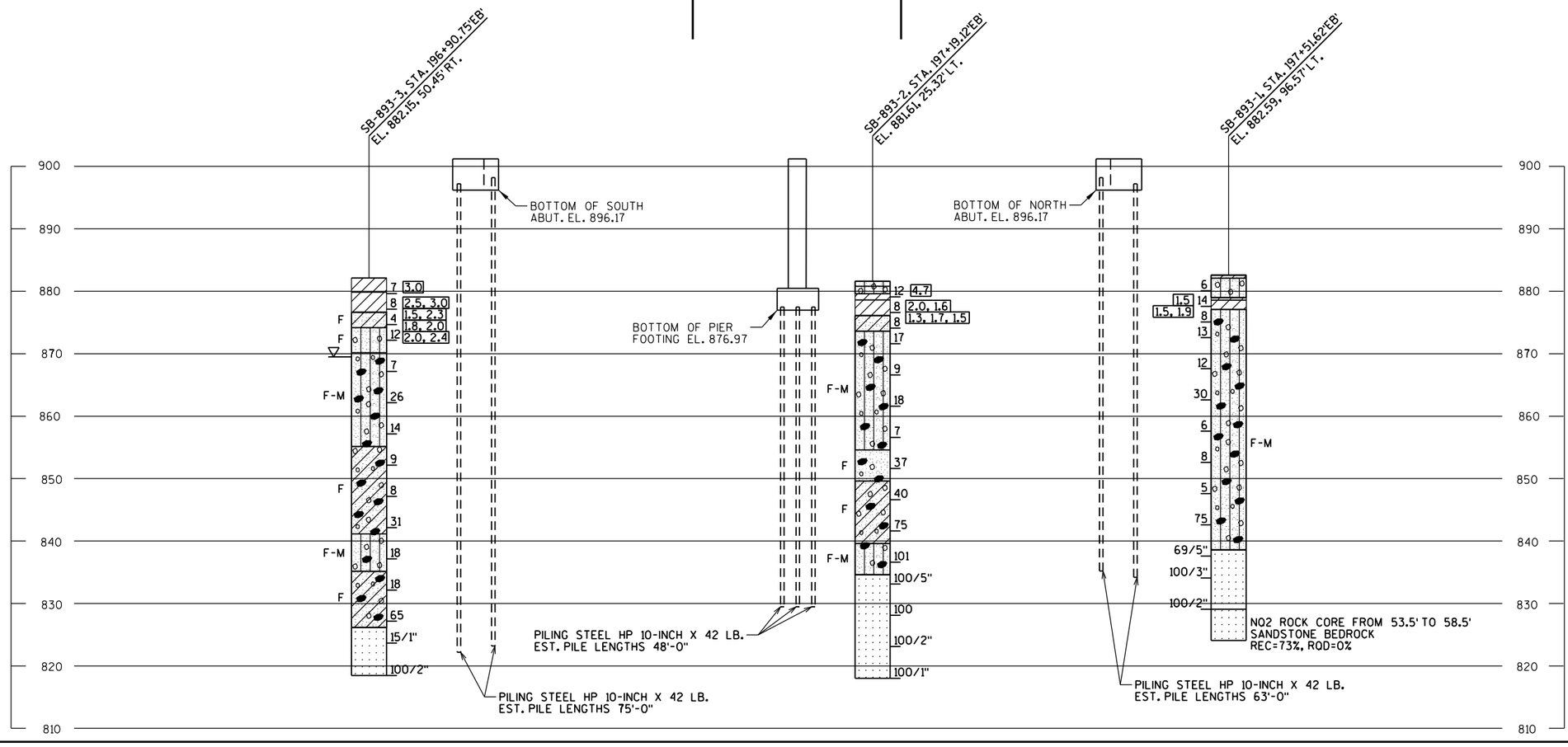
924

SCALE = 4.00

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
SB-893-1	04-22-2021	470,189.3	858,937.9
SB-893-2	05-04-2021	470,131.6	858,885.0
SB-893-3	05-05-2021	470,068.2	858,834.6

BORINGS COMPLETED BY: SOILS & ENGINEERING SERVICES, INC.
REPORT COMPLETED BY: SOILS & ENGINEERING SERVICES, INC.
ALL COORDINATES REFERENCED TO WISCRS NAD83 (2007) DANE COUNTY





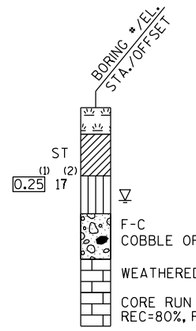
STATE PROJECT NUMBER

3080-01-75

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. JRS

SUBSURFACE EXPLORATION

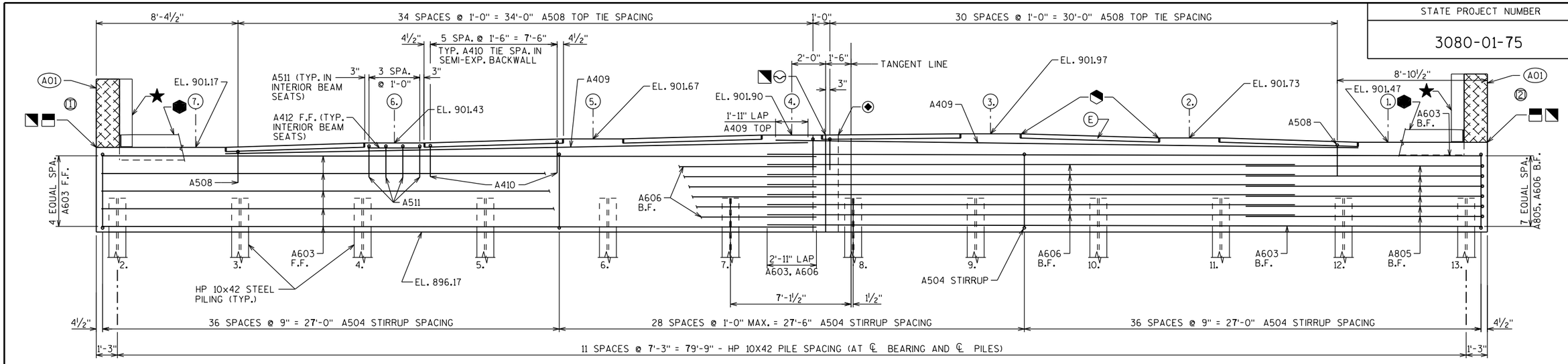
SHEET 4
925

8

8

STATE PROJECT NUMBER

3080-01-75

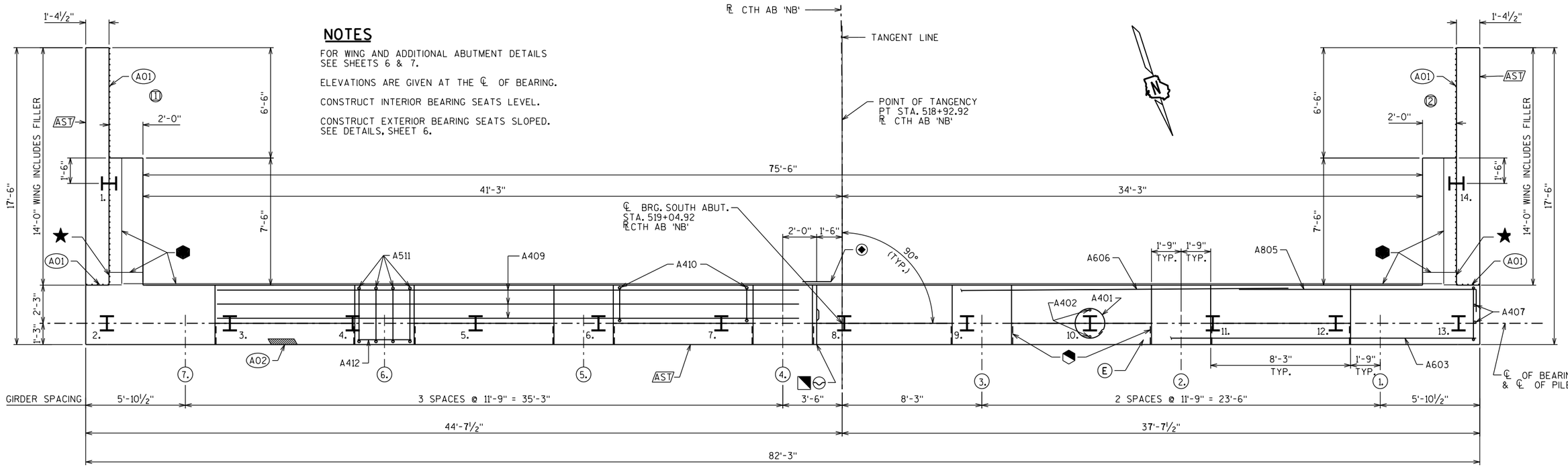


FRONT FACE BAR STEEL REINF.

ELEVATION

(SOUTH ABUTMENT LOOKING SOUTH)

BACK FACE BAR STEEL REINF.



PLAN

NOTES

FOR WING AND ADDITIONAL ABUTMENT DETAILS SEE SHEETS 6 & 7.

ELEVATIONS ARE GIVEN AT THE ℄ OF BEARING.

CONSTRUCT INTERIOR BEARING SEATS LEVEL.

CONSTRUCT EXTERIOR BEARING SEATS SLOPED. SEE DETAILS, SHEET 6.

LEGEND

F.F. – FRONT FACE

B.F. – BACK FACE

CL. – CLEAR

(11) – INDICATES WING NUMBER

(7) – INDICATES GIRDER NUMBER

– KEYED CONST. JOINT ON ABUT. BODY FORMED BY BEVELED 2 x 8. PLACE 18" WIDE RMW ON B.F. AT JOINT. FOR OPTIONAL DETAILS, SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

– ¾" "V" GROOVE ON FRONT FACE OF CONSTRUCTION JOINT.

– OPTIONAL KEYED CONSTRUCTION JOINT ON WING FORMED BY BEVELED 2x6. IF JOINT IS USED, PLACE ◆ AT JOINT ON B.F. OF WING.

(A01) – ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZONTAL & VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP & HOLD ⅛" BELOW SURFACE OF CONCRETE).

(A02) – 4"x ½" FILLER, EXTEND FULL LENGTH OF ABUTMENT.

– ¾" CORK FILLER (SIDE VERTICAL FACES OF EXPANSION POCKETS ONLY).

(AST) – ARCHITECTURAL SURFACE TREATMENT ON F.F. OF ABUTMENT & WINGS, SEE "ABUTMENT & SUPERSTRUCTURE AESTHETIC DETAILS" SHEET FOR DETAILS.

◆ – VERTICAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM BOTTOM OF ABUTMENT TO BEARING SEAT.

★ – VERTICAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM BRIDGE SEAT TO TOP OF WINGS.

⬢ – HORIZONTAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND ACROSS B.F. ABUT. BETWEEN WINGS & ALONG B.F. WING AT ▬.

△ – STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS AND SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03 INCHES.

(E) – SEMI-EXPANSION STEP, CONSTRUCT 3" DEEPER THAN ABUTMENT BACKWALL AND SURROUNDING BEAM SEATS.

◇ – SLOPE TOP OF WING ⅛" MINIMUM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. KHB

SOUTH ABUTMENT

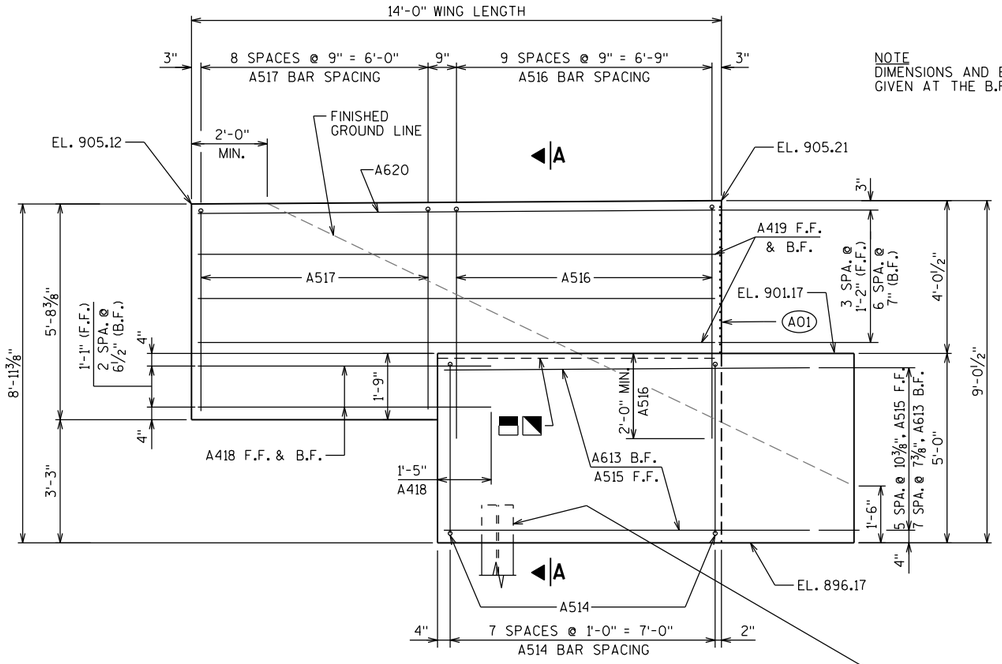
SHEET 5
926

8

8

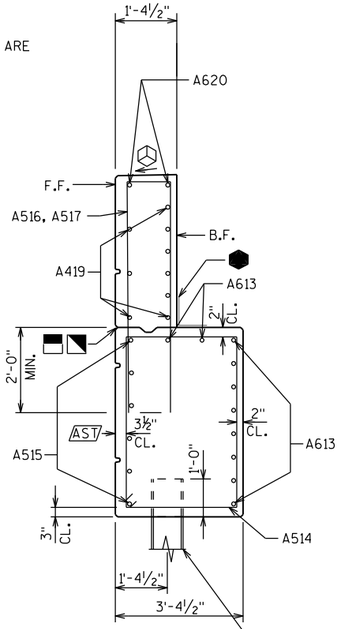
STATE PROJECT NUMBER

3080-01-75



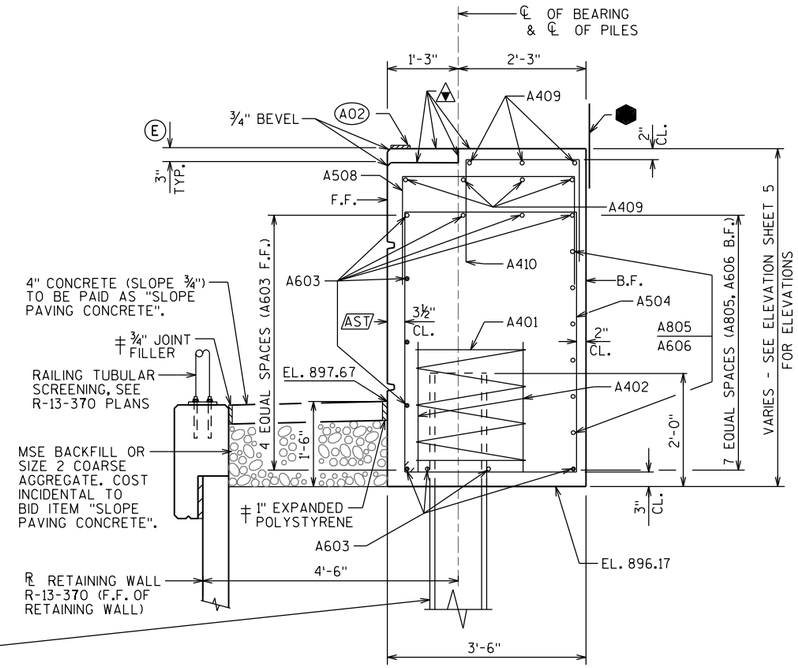
ELEVATION WING 1

NOTE
DIMENSIONS AND ELEVATIONS ARE GIVEN AT THE B.F. OF WING



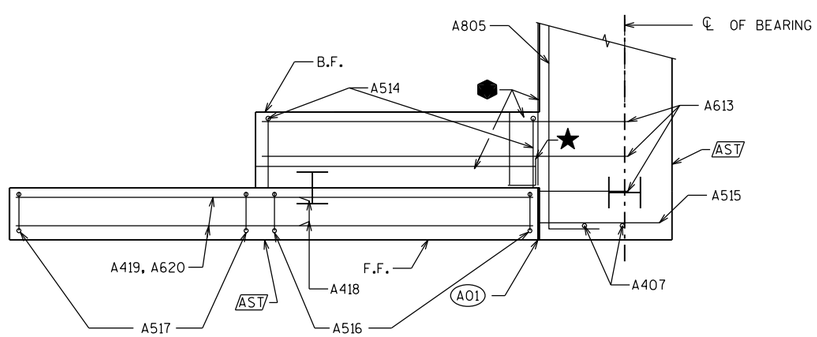
SECTION A-A THRU WING 1

‡ – SEAL ALL EXPOSED HORIZONTAL & VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP & HOLD ⅛" BELOW SURFACE OF CONCRETE).

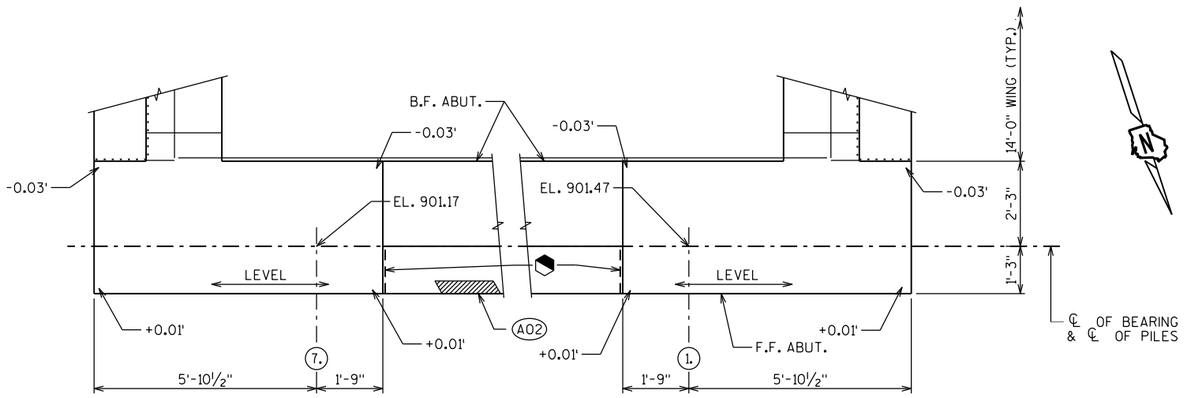


TYPICAL SECTION THRU ABUTMENT

PILING STEEL HP 10-INCH x 42 LB. DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED PILE LENGTHS ARE 75'-0". FOR PILE SPLICE DETAILS SEE SHEET 10.

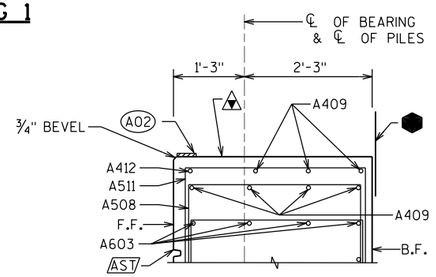


PLAN WING 1



SLOPED BEAM SEAT DETAIL - EXTERIOR BEAM SEATS

SEE SHEET 5 LEGEND FOR DESCRIPTION OF
● A01 ▲ ★ A02
E ⬡ AST ■ ◥



TOP OF ABUTMENT & INTERIOR BEARING SEATS

(SEE ELEVATION, SHEET 5 FOR REINF. LOCATIONS & SPACING)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. KHB

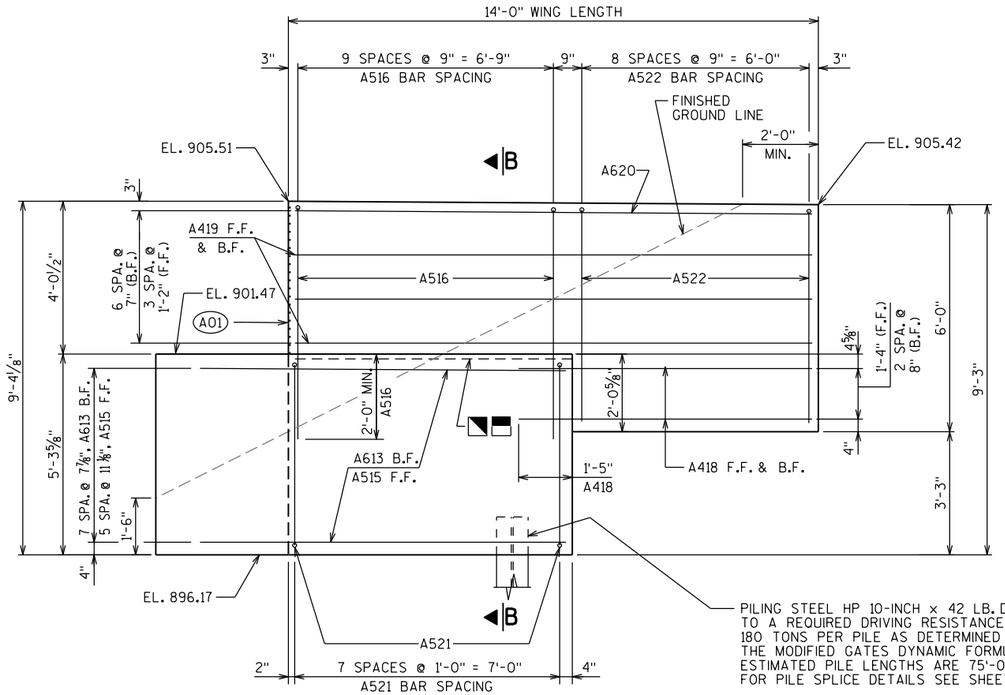
SOUTH ABUTMENT & WING 1 DETAILS

SHEET 6
927

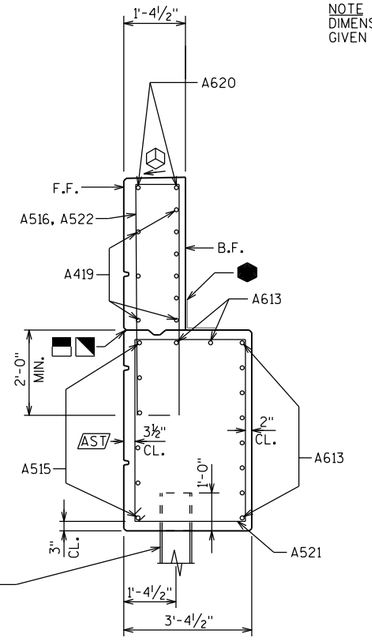
8

8

STATE PROJECT NUMBER
3080-01-75



ELEVATION WING 2



SECTION B-B
THRU WING 2

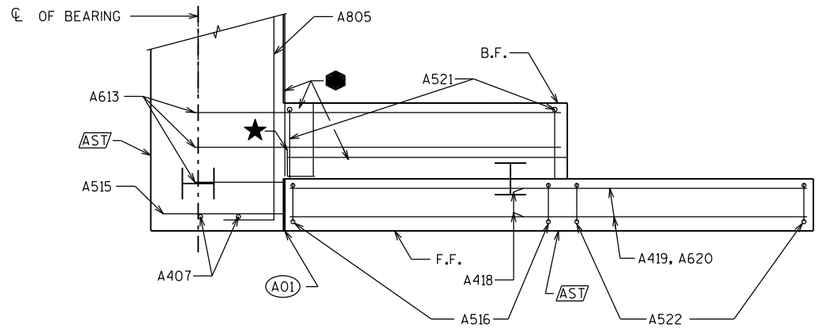
NOTE
DIMENSIONS AND ELEVATIONS ARE GIVEN AT THE B.F. OF WING

SOUTH ABUTMENT BILL OF BARS

COATED 1,470 LBS.
UNCOATED 5,350 LBS.

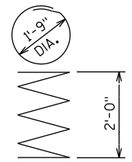
MARK	NUMBER REQUIRED COATED	NUMBER REQUIRED UNCOATED	LENGTH	BENT	LOCATION
A401	-	12	28'-0"	X	AT BODY PILES - 1 PER PILE 5 SPIRAL WRAPS
A402	-	24	2'-3"		AT BODY PILES - 2 PER PILE - VERT.
A603	-	22	42'-3"		BODY - F.F., TOP & BOTTOM - HORIZ.
A504	-	101	15'-5"	X	BODY - STIRRUPS - VERT.
A805	-	12	15'-2"	X	BODY - B.F. @ WINGS - HORIZ.
A606	-	12	31'-3"		BODY - B.F. - CENTER - HORIZ.
A407	-	4	4'-7"		BODY - ENDS - VERT.
A508	-	66	6'-0"	X	BODY - TIE - TOP - VERT.
A409	-	14	34'-6"		BODY - TOP - HORIZ.
A410	-	36	5'-5"	X	BODY - TIE - TOP @ SEMI-EXP. POCKET - VERT.
A511	-	20	6'-6"	X	BODY - TIE - TOP - INT. BEAM SEATS - VERT.
A412	-	5	3'-2"		BODY - F.F. - TOP @ INT. BEAM SEAT - HORIZ.
A613	20	-	9'-8"		WINGS 1 & 2 - BASE - B.F. - HORIZ.
A514	8	-	15'-8"	X	WING 1 - BASE - STIRRUP - VERT.
A515	12	-	10'-6"		WINGS 1 & 2 - BASE - F.F. - HORIZ.
A516	20	-	12'-10"	X	WINGS 1 & 2 - TOP - STIRRUP - VERT.
A517	9	-	11'-4"	X	WING 1 - TIP - STIRRUP - VERT.
A418	10	-	7'-9"		WINGS 1 & 2 - TIP - F.F. & B.F. - HORIZ.
A419	18	-	13'-7"		WINGS 1 & 2 - TOP - F.F. & B.F. - HORIZ.
A620	4	-	13'-7"		WINGS 1 & 2 - TOP - F.F. & B.F. - HORIZ.
A521	8	-	16'-2"	X	WING 2 - BASE - STIRRUP - VERT.
A522	9	-	11'-10"	X	WING 2 - TIP - STIRRUP - VERT.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

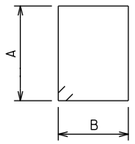


PLAN WING 2

SEE SHEET 5 LEGEND FOR DESCRIPTION OF
⬢ A01 ⚠ ★ A02
Ⓔ ⬡ AST ▬ ◥

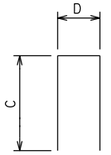


A401



MARK	A	B
A504	4'-4"	3'-0½"
A514	4'-7"	2'-11"
A521	4'-10"	2'-11"

A805
STANDARD 90° HOOK



MARK	C	D
A508	1'-7"	3'-0½"
A410	1'-10"	1'-11"
A511	1'-10"	3'-0½"
A516	6'-1"	11"
A517	5'-4"	11"
A522	5'-7"	11"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. KHB

SOUTH ABUTMENT & WING 2 DETAILS

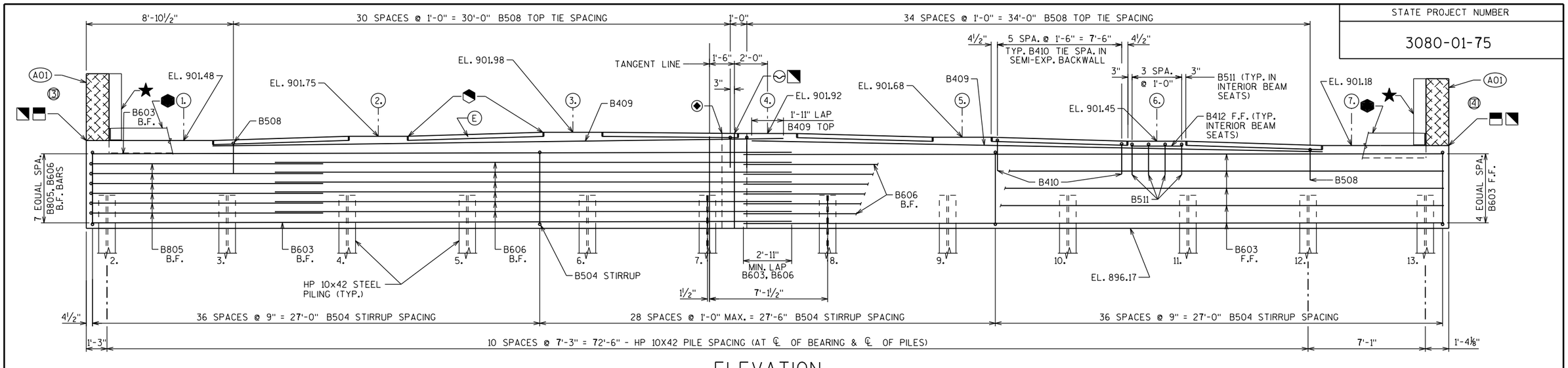
SHEET 7
928

8

8

STATE PROJECT NUMBER

3080-01-75

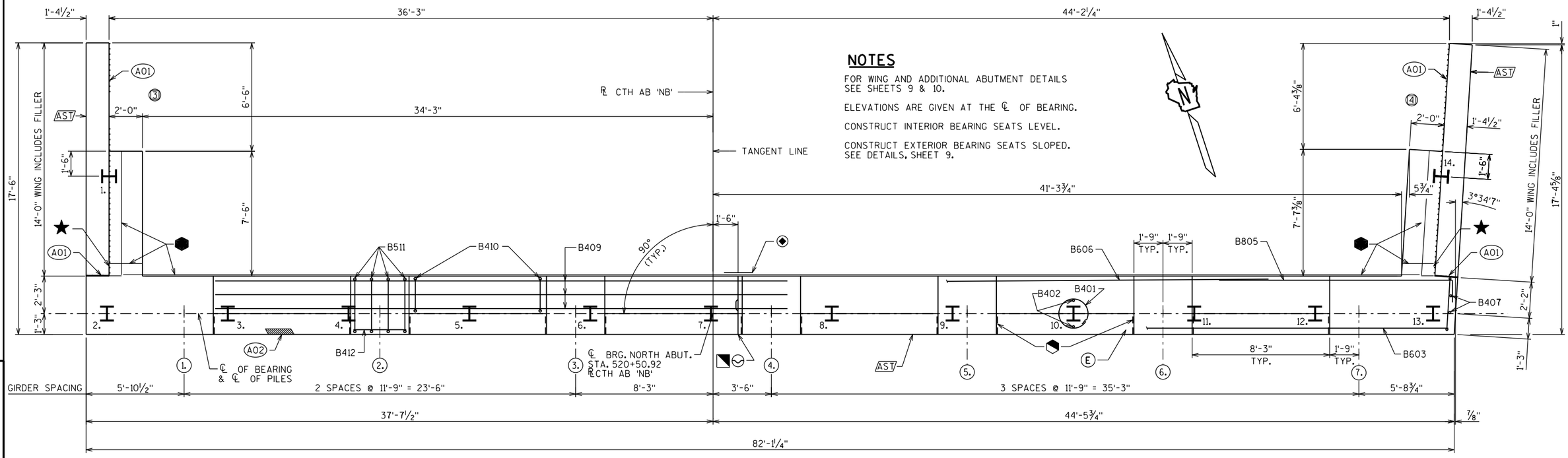


BACK FACE BAR STEEL REINF.

ELEVATION

(NORTH ABUTMENT LOOKING NORTH)

FRONT FACE BAR STEEL REINF.



PLAN

NOTES

FOR WING AND ADDITIONAL ABUTMENT DETAILS SEE SHEETS 9 & 10.

ELEVATIONS ARE GIVEN AT THE ℄ OF BEARING.

CONSTRUCT INTERIOR BEARING SEATS LEVEL.

CONSTRUCT EXTERIOR BEARING SEATS SLOPED. SEE DETAILS, SHEET 9.

LEGEND

F.F.– FRONT FACE

B.F.– BACK FACE

CL. – CLEAR

⬡ – INDICATES WING NUMBER

◯ – INDICATES GIRDER NUMBER

◒ – KEYED CONST. JOINT ON ABUT. BODY FORMED BY BEVELED 2 x 8. PLACE 18" WIDE RMW ON B.F. AT JOINT. FOR OPTIONAL DETAILS, SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

◥ – ¾" "V" GROOVE ON FRONT FACE OF CONSTRUCTION JOINT.

◨ – OPTIONAL KEYED CONSTRUCTION JOINT ON WING FORMED BY BEVELED 2x6. IF JOINT IS USED, PLACE ⬢ AT JOINT ON B.F. OF WING.

(A01) – ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZONTAL & VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP & HOLD ⅛" BELOW SURFACE OF CONCRETE).

(A02) – 4"x ½" FILLER, EXTEND FULL LENGTH OF ABUTMENT.

⬟ – ¾" CORK FILLER (SIDE VERTICAL FACES OF EXPANSION POCKETS ONLY).

AST – ARCHITECTURAL SURFACE TREATMENT ON F.F. OF ABUTMENT & WINGS, SEE "ABUTMENT & SUPERSTRUCTURE AESTHETIC DETAILS" SHEET FOR DETAILS.

◈ – VERTICAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM BOTTOM OF ABUTMENT TO BEARING SEAT.

★ – VERTICAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM BRIDGE SEAT TO TOP OF WINGS.

⬢ – HORIZONTAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND ACROSS B.F. ABUT. BETWEEN WINGS & ALONG B.F. WING AT ◨.

△ – STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS AND SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03 INCHES.

(E) – SEMI-EXPANSION STEP, CONSTRUCT 3" DEEPER THAN ABUTMENT BACKWALL AND SURROUNDING BEAM SEATS.

◬ – SLOPE TOP OF WING ⅛" MINIMUM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. KHB

NORTH ABUTMENT

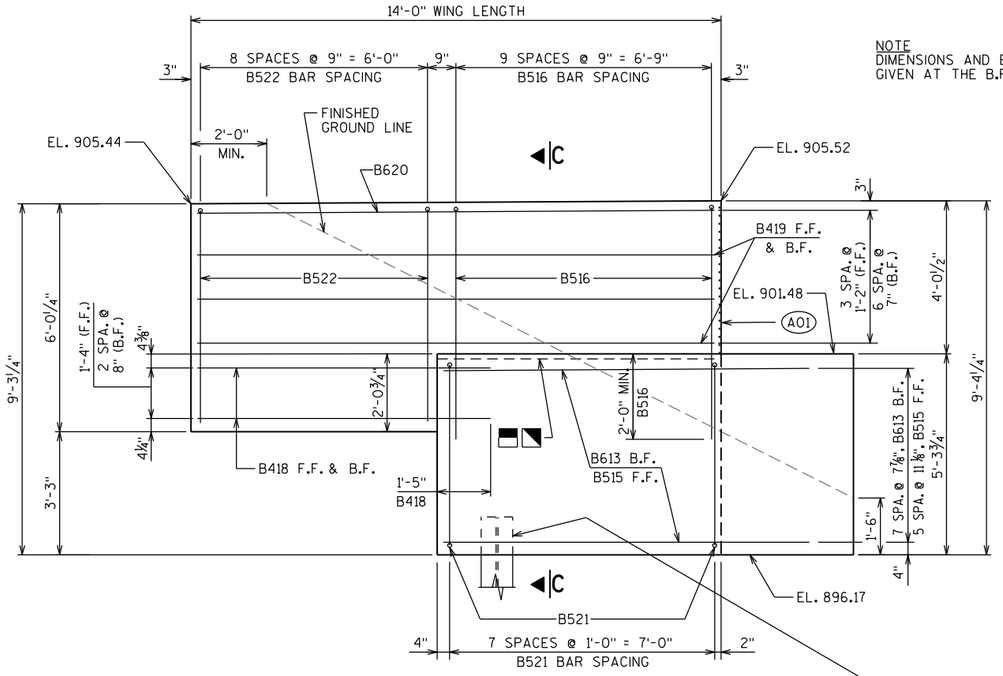
SHEET 8
929

8

8

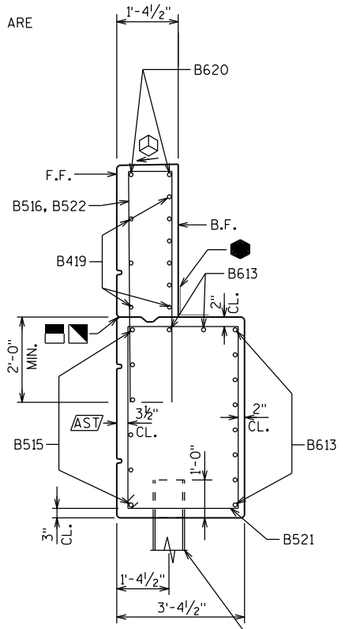
STATE PROJECT NUMBER

3080-01-75



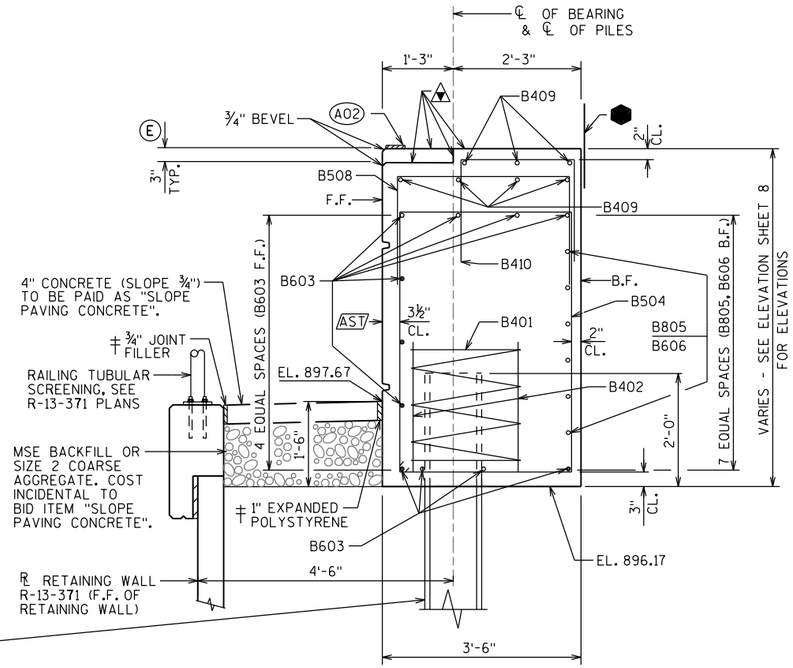
ELEVATION WING 3

NOTE
DIMENSIONS AND ELEVATIONS ARE GIVEN AT THE B.F. OF WING



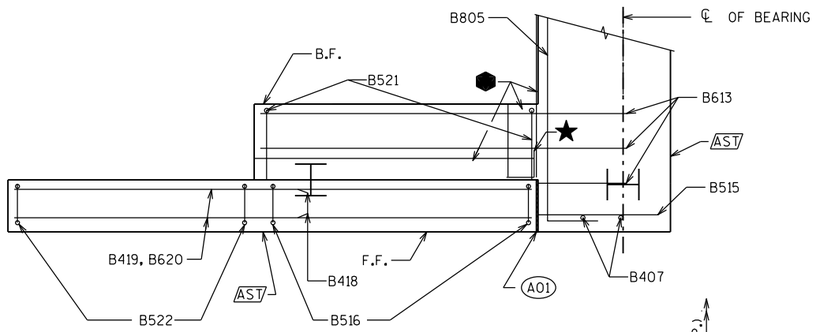
SECTION C-C THRU WING 3

‡ – SEAL ALL EXPOSED HORIZONTAL & VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP & HOLD ⅛" BELOW SURFACE OF CONCRETE).

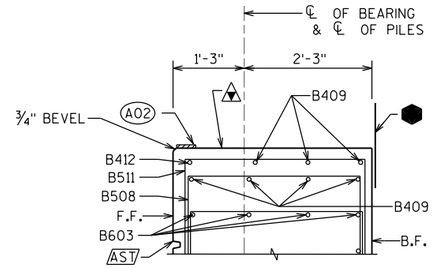


TYPICAL SECTION THRU ABUTMENT

PILING STEEL HP 10-INCH x 42 LB. DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED PILE LENGTHS ARE 63'-0". FOR PILE SPLICE DETAILS SEE SHEET 10.



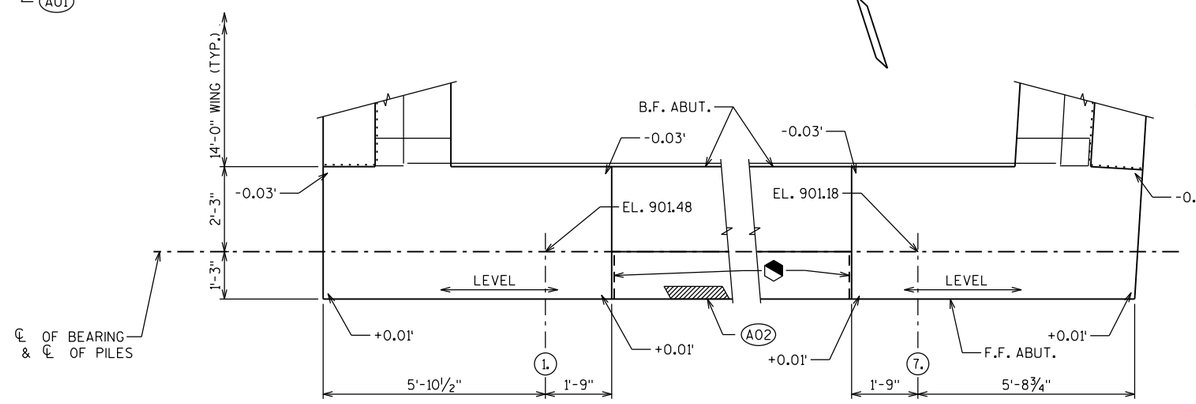
PLAN WING 3



TOP OF ABUTMENT @ INTERIOR BEARING SEATS

(SEE ELEVATION, SHEET 8 FOR REINF. LOCATIONS & SPACING)

SEE SHEET 8 LEGEND FOR DESCRIPTION OF
● A01 ▲ ★ A02
E ⬡ AST ■ ◥



SLOPED BEAM SEAT DETAIL - EXTERIOR BEAM SEATS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. KHB

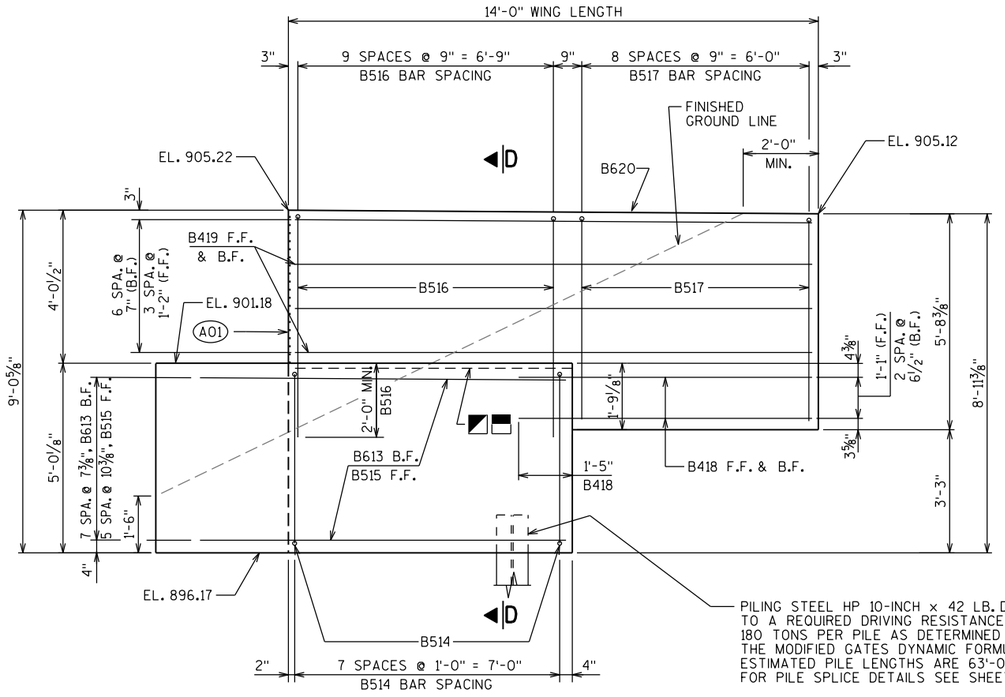
NORTH ABUTMENT & WING 3 DETAILS

SHEET 9
930

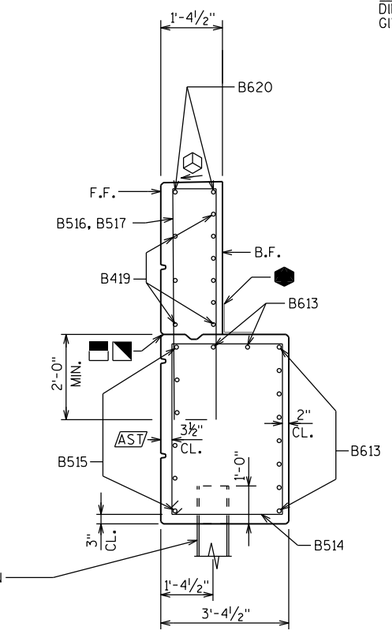
8

8

STATE PROJECT NUMBER
3080-01-75



ELEVATION WING 4



SECTION D-D THRU WING 4

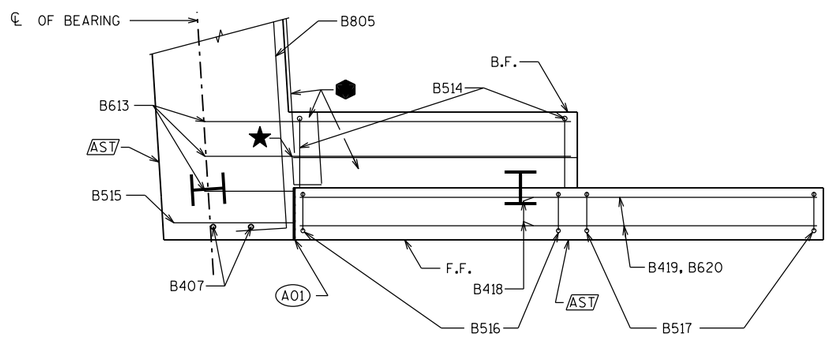
NOTE
DIMENSIONS AND ELEVATIONS ARE GIVEN AT THE B.F. OF WING

NORTH ABUTMENT BILL OF BARS

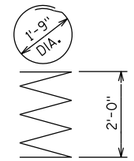
COATED 1,470 LBS.
UNCOATED 5,360 LBS.

MARK	NUMBER REQUIRED COATED	NUMBER REQUIRED UNCOATED	LENGTH	BENT	LOCATION
B401	-	12	28'-0"	X	AT BODY PILES - 1 PER PILE 5 SPIRAL WRAPS
B402	-	24	2'-3"		AT BODY PILES - 2 PER PILE - VERT.
B603	-	22	42'-4"		BODY - F.F., TOP & BOTTOM - HORIZ.
B504	-	101	15'-5"	X	BODY - STIRRUPS - VERT.
B805	-	12	15'-2"	X	BODY - B.F. @ WINGS - HORIZ.
B606	-	12	31'-4"		BODY - B.F. - CENTER - HORIZ.
B407	-	4	4'-7"		BODY - ENDS - VERT.
B508	-	66	6'-0"	X	BODY - TIE - TOP - VERT.
B409	-	14	34'-6"		BODY - TOP - HORIZ.
B410	-	36	5'-5"	X	BODY - TIE - TOP @ SEMI-EXP. POCKET - VERT.
B511	-	20	6'-6"	X	BODY - TIE - TOP - INT. BEAM SEATS - VERT.
B412	-	5	3'-2"		BODY - F.F. - TOP @ INT. BEAM SEAT - HORIZ.
B613	20	-	9'-8"		WINGS 3 & 4 - BASE - B.F. - HORIZ.
B514	8	-	15'-8"	X	WING 4 - BASE - STIRRUP - VERT.
B515	12	-	10'-5"		WINGS 3 & 4 - BASE - F.F. - HORIZ.
B516	20	-	12'-10"	X	WINGS 3 & 4 - TOP - STIRRUP - VERT.
B517	9	-	11'-4"	X	WING 4 - TIP - STIRRUP - VERT.
B418	10	-	7'-9"		WINGS 3 & 4 - TIP - F.F. & B.F. - HORIZ.
B419	18	-	13'-7"		WINGS 3 & 4 - TOP - F.F. & B.F. - HORIZ.
B620	4	-	13'-7"		WINGS 3 & 4 - TOP - F.F. & B.F. - HORIZ.
B521	8	-	16'-2"	X	WING 3 - BASE - STIRRUP - VERT.
B522	9	-	11'-10"	X	WING 3 - TIP - STIRRUP - VERT.

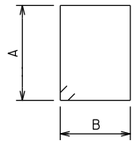
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



PLAN WING 4

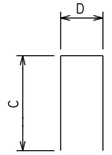


B401

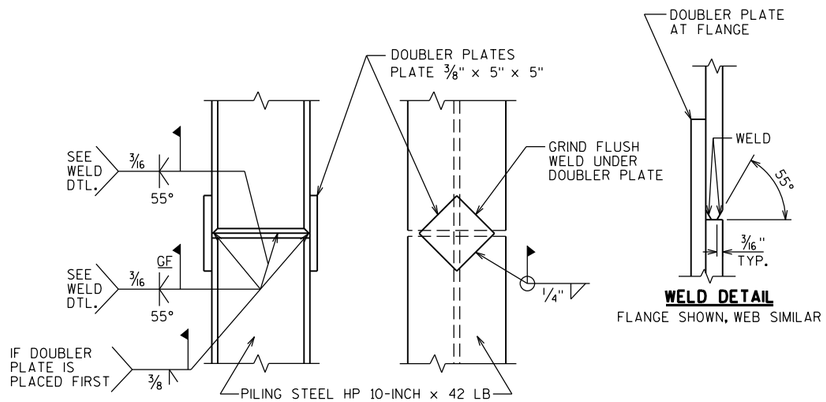


MARK	A	B
B504	4'-4"	3'-0½"
B514	4'-7"	2'-11"
B521	4'-10"	2'-11"

B805
STANDARD 90° HOOK



MARK	C	D
B508	1'-7"	3'-0½"
B410	1'-10"	1'-11"
B511	1'-10"	3'-0½"
B516	6'-1"	11"
B517	5'-4"	11"
B522	5'-7"	11"



WELD DETAIL
FLANGE SHOWN, WEB SIMILAR

PILE SPLICE DETAILS

SEE SHEET 8 LEGEND FOR DESCRIPTION OF
⬢ A01 ⧋ ★ A02
Ⓔ ⬡ AST ⬒ ◪

NO.	DATE	REVISION	BY

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STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. KHB

NORTH ABUTMENT & WING 4 DETAILS

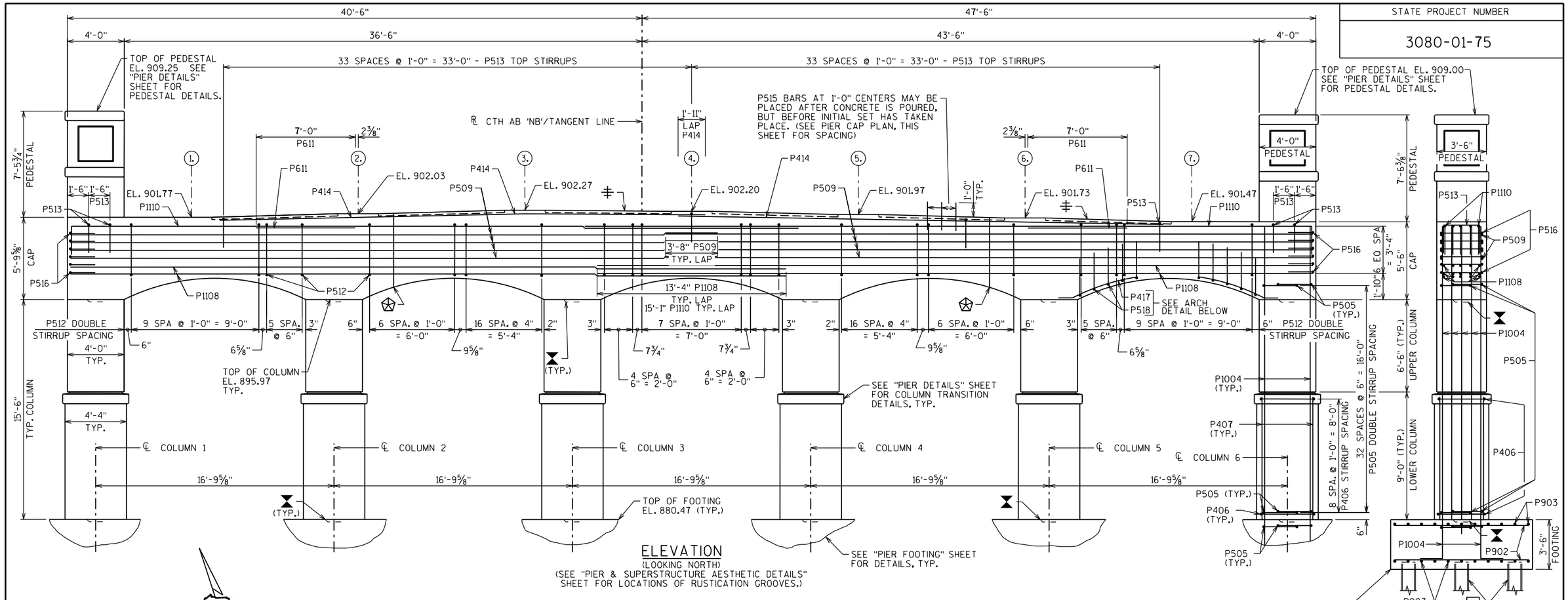
SHEET 10
931

8

8

STATE PROJECT NUMBER

3080-01-75

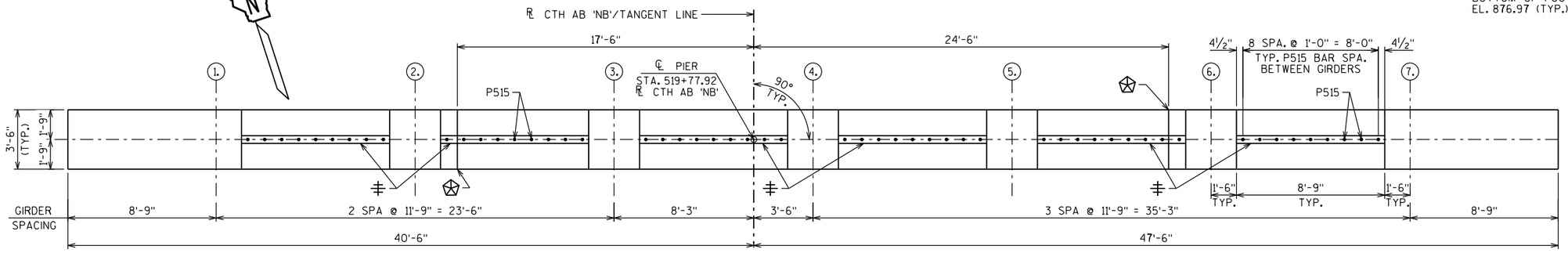


ELEVATION

(LOOKING NORTH)

(SEE "PIER & SUPERSTRUCTURE AESTHETIC DETAILS" SHEET FOR LOCATIONS OF RUSTICATION GROOVES.)

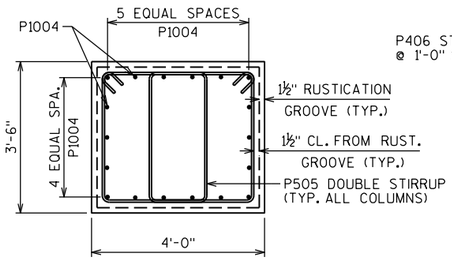
END VIEW



PIER CAP PLAN

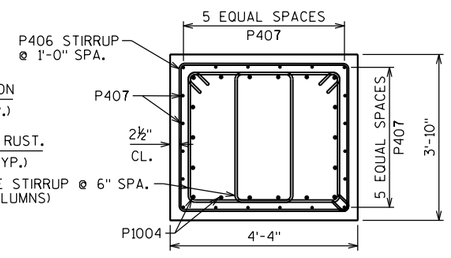
LEGEND

- H — PILING STEEL HP 10-INCH X 42 LB. DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED PILE LENGTHS ARE 48'-0". FOR PILE SPLICE DETAILS SEE SHEET 10.
- ⋕ — KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2 X 6.
- ⛤ — MANDATORY VERTICAL CONSTRUCTION JOINT FORMED BY BEVELED 2 x 8 x 3'-0" LONG. CENTER ON PIER CAP.
- ⧗ — 1'-3" X 1'-3" X 4" DEEP CONSTRUCTION JOINT AT TOP & BOTTOM OF ALL PIER COLUMNS.
- ◯ — DENOTES GIRDER NUMBER.



SECTION THRU UPPER COLUMN

(TYP. ALL COLUMNS)



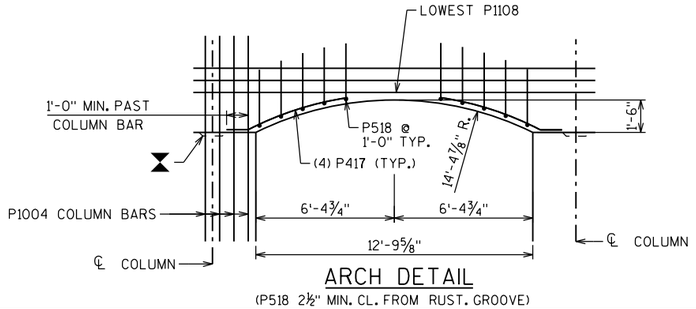
SECTION THRU LOWER COLUMN

(TYP. ALL COLUMNS)

PIER NOTES

BEAM SEATS ARE LEVEL.

FOR PLACEMENT OF RUSTICATION GROOVES, STAINING, RECESSED PANELS AND OTHER ARCHITECHURAL SURFACE TREATMENT, SEE "PIER AND SUPERSTRUCTURE AESTHETIC DETAILS" SHEET.



ARCH DETAIL

(P518 2½" MIN. CL. FROM RUST. GROOVE)

NO.	DATE	REVISION	BY

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STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. KHB

PIER

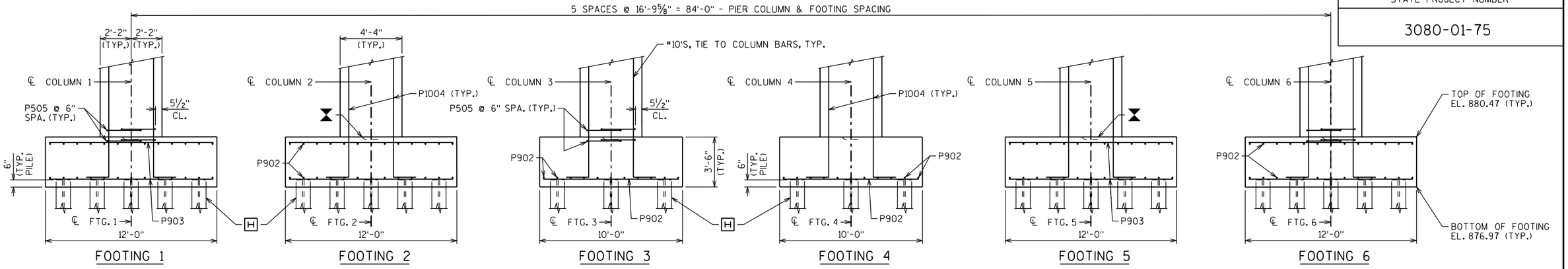
SHEET 11
932

8

8

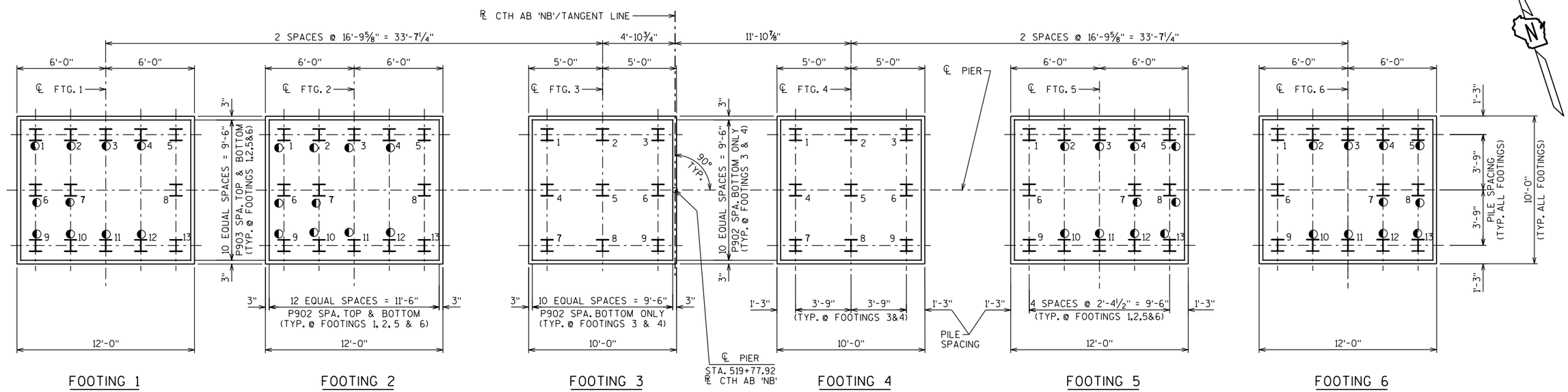
STATE PROJECT NUMBER

3080-01-75



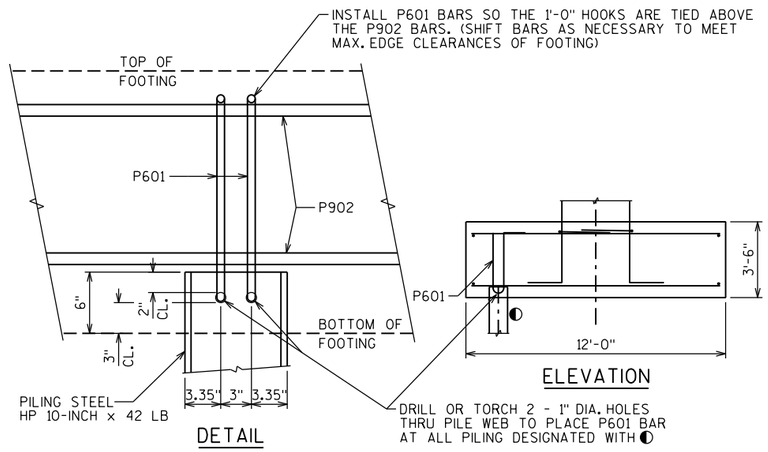
ELEVATION

(LOOKING NORTH)

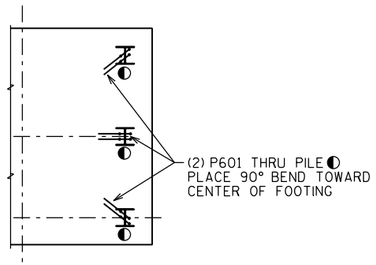


PLAN

◐ — PILE UPLIFT ANCHOR INSTALLATION REQUIRED



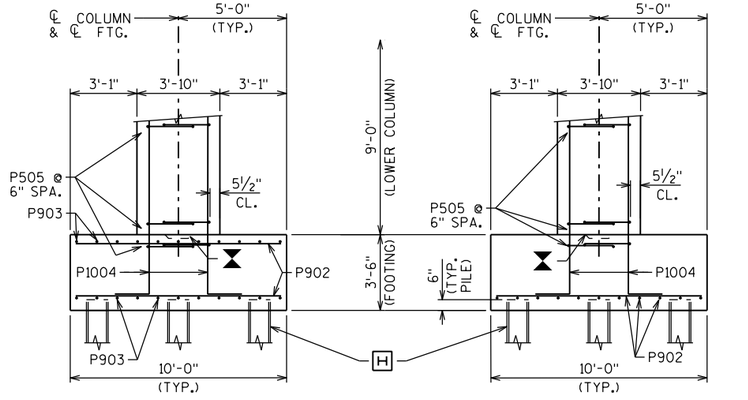
DETAIL



PLAN

◐ PILE UPLIFT ANCHOR INSTALLATION

(PILE LOCATIONS NOTED FOR FOOTINGS 1, 2, 5 & 6)



TYPICAL SECTION THRU FOOTINGS 1, 2, 5 & 6

(LOOKING WEST)

(PILE UPLIFT ANCHORS OMITTED FOR CLARITY)

TYPICAL SECTION THRU FOOTINGS 3 & 4

(LOOKING WEST)

SEE PIER SHEET LEGEND FOR DESCRIPTION OF H

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. KHB

PIER FOOTINGS

SHEET 17
933

8

8

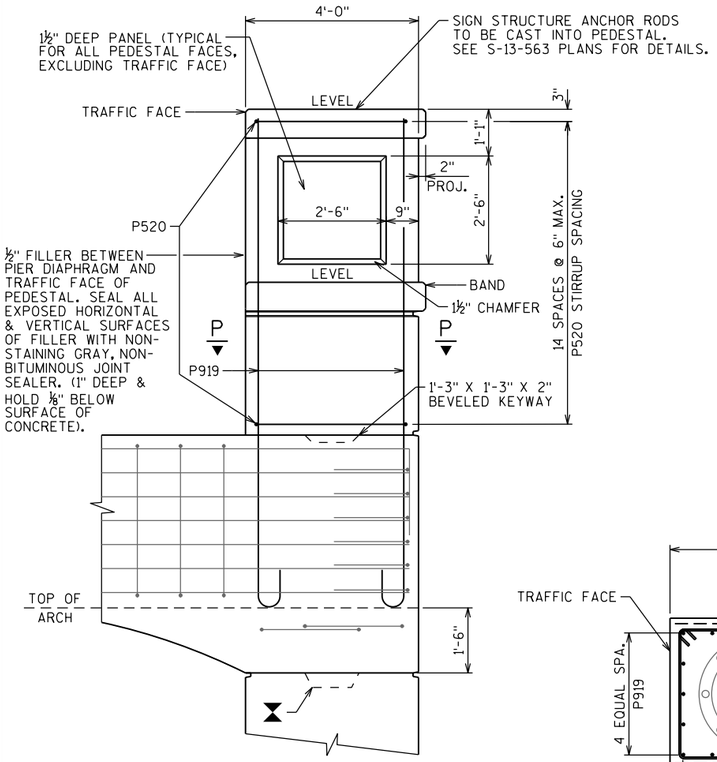
STATE PROJECT NUMBER
3080-01-75

COATED 33,065 LBS.
UNCOATED 9,170 LBS.

BILL OF BARS (PIER)

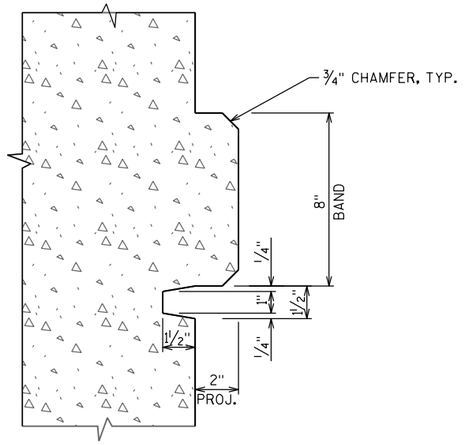
MARK	NUMBER REQUIRED COATED	NUMBER REQUIRED UNCOATED	LENGTH	BENT	LOCATION
P601	-	80	7'-4"	X	PIER FOOTINGS - THRU PILING - VERT.
P902	-	148	9'-7"		PIER FOOTINGS - ALL - HORIZ.
P903	-	88	11'-7"		PIER FOOTINGS 1, 2, 5 & 6 - HORIZ.
P1004	108	-	25'-1"	X	PIER FOOTINGS, COLUMNS & CAP - DOWELS - VERT.
P505	408	-	11'-6"	X	PIER FOOTINGS, COLUMNS & CAP - STIRRUP - HORIZ.
P406	54	-	15'-2"	X	PIER COLUMNS - LOWER - STIRRUP - HORIZ.
P407	120	-	8'-7"		PIER COLUMNS - LOWER - VERT.
P1108	24	-	50'-6"		PIER CAP - BOTTOM - HORIZ.
P509	16	-	45'-8"		PIER CAP - HORIZ.
P1110	8	-	52'-11"	X	PIER CAP - TOP - HORIZ.
P611	8	-	7'-0"		PIER CAP - TOP - OVER COLUMNS 2 & 5 - HORIZ.
P512	196	-	11'-7"	X	PIER CAP - STIRRUPS - VERT.
P513	71	-	6'-6"	X	PIER CAP - TOP - STIRRUPS - VERT.
P414	8	-	34'-3"		PIER CAP - TOP - HORIZ.
P515	54	-	2'-0"		PIER CAP - TOP - DOWELS - VERT.
P516	12	-	6'-0"	X	PIER CAP - TIES AT ENDS - HORIZ.
P417	40	-	5'-11"	X	PIER CAP - ARCH - HORIZ.
P518	50	-	7'-8"	X	PIER CAP - ARCH - STIRRUPS - VERT.
P919	36	-	12-7"	X	PIER CAP & PEDESTAL - VERT.
P520	30	-	13'-8"	X	PIER PEDESTAL - STIRRUPS - HORIZ.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



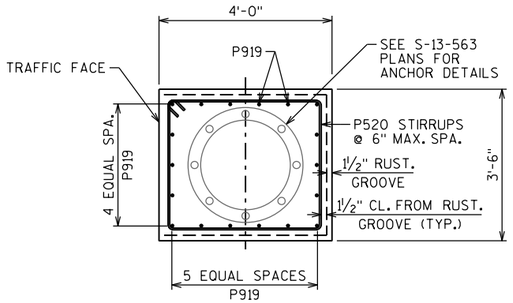
PEDESTAL ELEVATION

SEE PIER SHEET LEGEND FOR DESCRIPTION OF ‡ ⧗ ◐

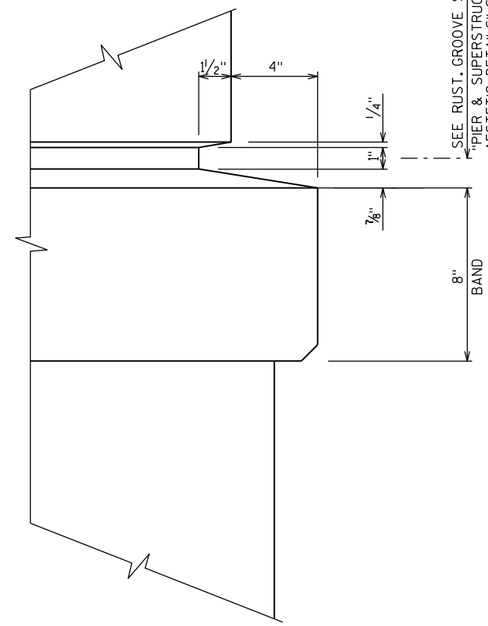


PEDESTAL BAND DETAIL

(TYPICAL FOR ALL PEDESTAL FACES, EXCLUDING TRAFFIC FACE)
(LOWER BAND SHOWN, UPPER BAND SIMILAR)

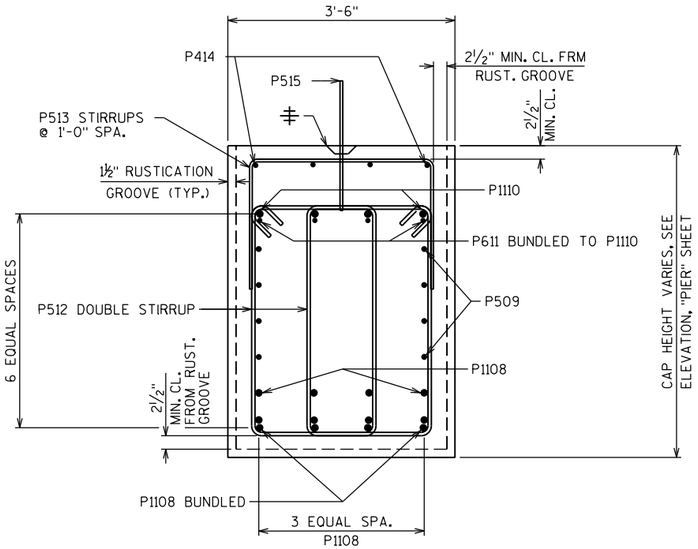


SECTION P-P THRU PEDESTAL

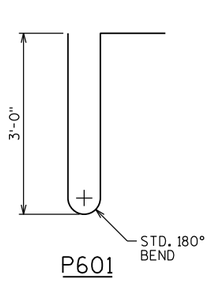


COLUMN TRANSITION DETAIL

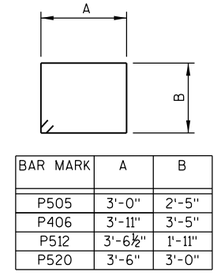
LOWER COLUMN BASE TO UPPER COLUMN TRANSITION
(TYPICAL ALL 4 FACES)



TYP. SECTION THRU CAP



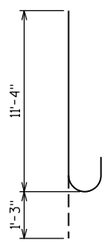
P601



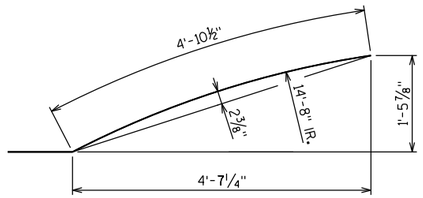
BAR MARK	A	B
P505	3'-0"	2'-5"
P406	3'-11"	3'-5"
P512	3'-6½"	1'-11"
P520	3'-6"	3'-0"

BAR MARK	C
P513	2'-0"
P516	1'-9"
P518	2'-7"

P1004, P1110



P919
STANDARD 180° HOOK



P417

WIRE BARS TOGETHER @ 2'-0" CENTERS.

BUNDLING DETAIL
P1108 BUNDLED TO P1108 BARS
P611 BUNDLED TO P1110 BARS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. KHB

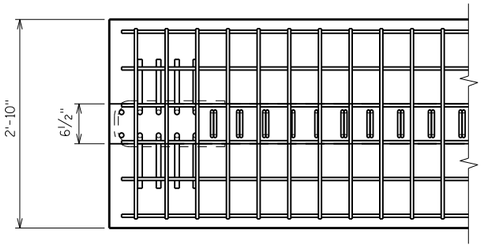
PIER DETAILS

SHEET 13
934

8

8

STATE PROJECT NUMBER
3080-01-75



TOP FLANGE

NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER OR EPOXY TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER.

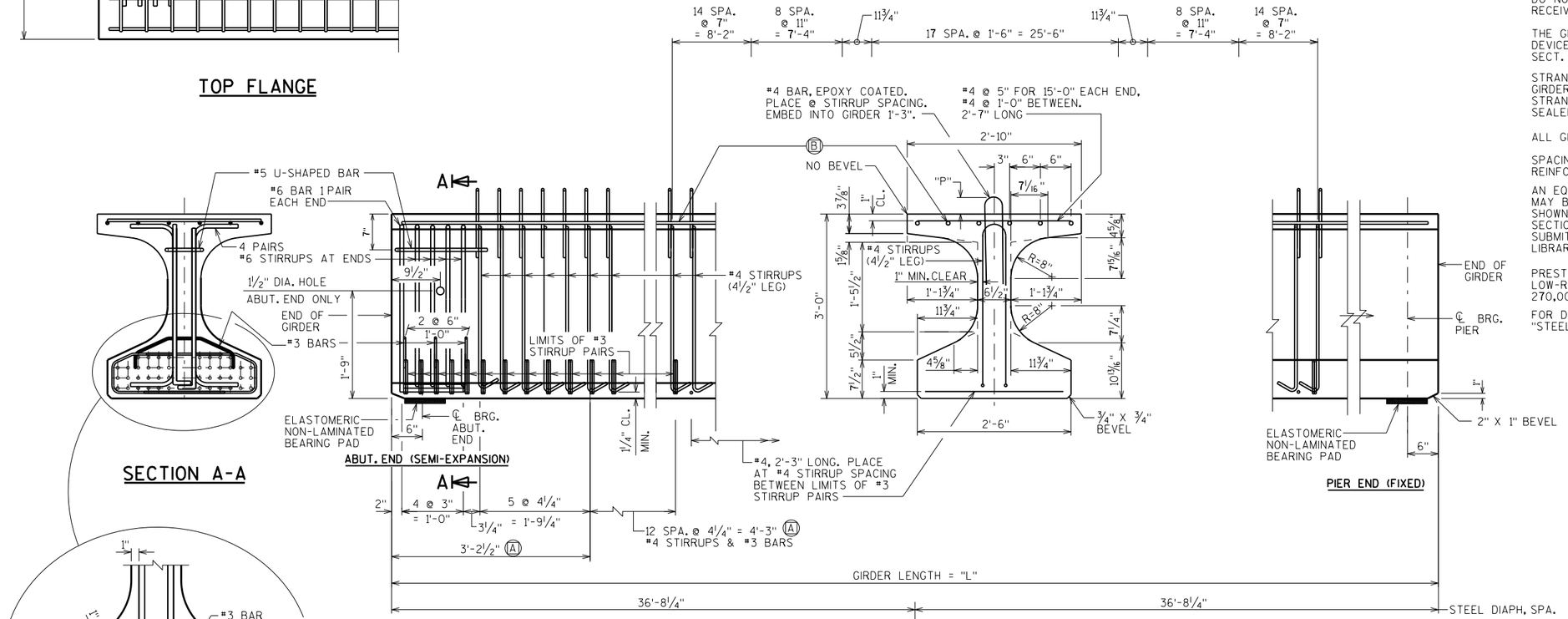
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

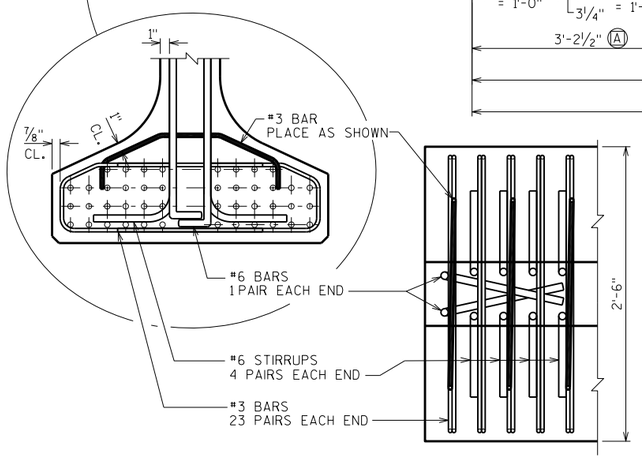
AN EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A1064 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON ACCEPTANCE OF THE STRUCTURES MAINTENANCE SECTION. IF USED, WWF SUBSTITUTION DETAILS SHALL BE SUBMITTED ELECTRONICALLY TO THE WISDOT FABRICATION LIBRARY AND ACCEPTED PRIOR TO SHOP DRAWING SUBMITTAL.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.



SECTION A-A

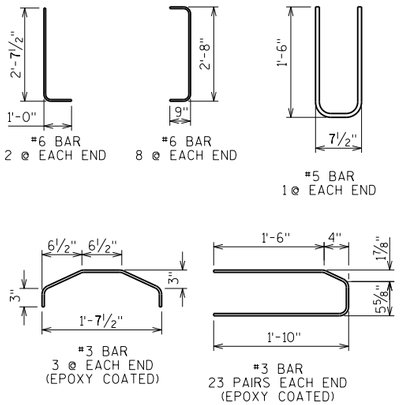


BOTTOM FLANGE

SIDE VIEW & TYPICAL SECTION IN SPAN

(A) DETAIL TYP. AT EACH END

(B) 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"



✳ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L" (FEET)	DEAD LOAD DEFL. (IN.)									CONC. STRGTH. f'c (P.S.I.)	"P" (IN.)			DIA. OF STRAND (IN.)	DRAPED PATTERN						UNDRAPED PATTERN	
													1ST ⅓ OF GIRDER	MID ⅓ OF GIRDER	END ⅓ OF GIRDER		TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳
			⅒	⅔	⅓	⅘	⅕	⅙	⅐	⅛	⅑														
1	1&7	73.375	0.4	0.8	1.0	1.2	1.3	1.2	1.0	0.7	0.4	8,000	8	8	8	0.6	30	6,400	32	11	14	4		
1	2-6	73.375	0.5	1.0	1.4	1.6	1.7	1.6	1.3	1.0	0.5	8,000	8	8	8	0.6	30	6,400	32	11	14	4		
2	1&7	73.375	0.4	0.7	1.0	1.2	1.3	1.2	1.0	0.8	0.4	8,000	8	8	8	0.6	30	6,400	32	11	14	4		
2	2-6	73.375	0.5	1.0	1.3	1.6	1.7	1.6	1.4	1.0	0.5	8,000	8	8	8	0.6	30	6,400	32	11	14	4		

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY DDS | PLANS CK'D. JRS

36W" PRESTRESSED GIRDER

SHEET 14

935

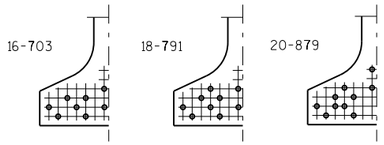
SCALE = 1.00

8

8

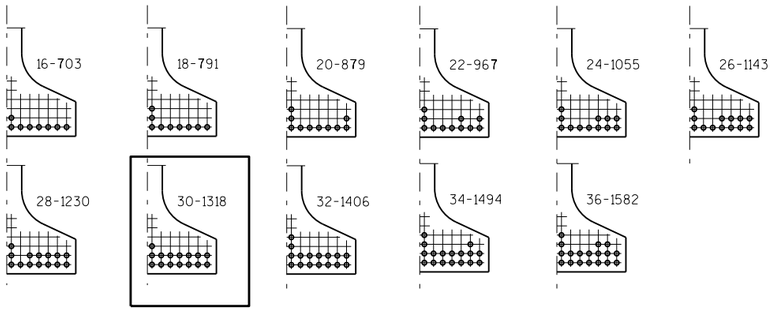
STATE PROJECT NUMBER

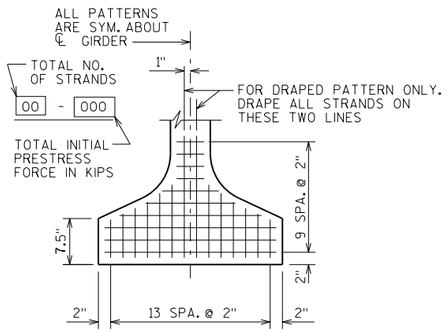
3080-01-75



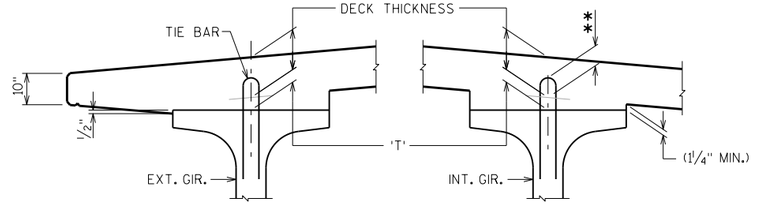
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6" DIA. STRANDS





TYP. STRAND PATTERN



DECK HAUNCH DETAIL

IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

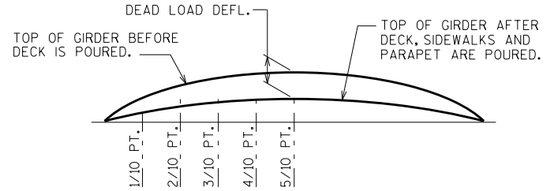
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

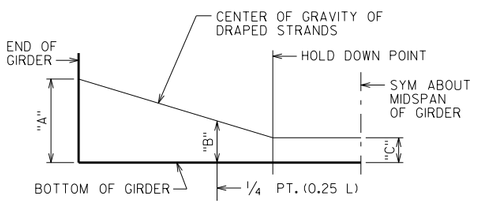
NOTE: AN AVERAGE HAUNCH ('T') OF 2.81" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".

ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6" DIA. STRANDS



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	2.95
2	2.95

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY DDS | PLANS CK'D. JRS

36W" PRESTRESSED GIRDER DETAILS

SHEET 15

936

SCALE = 1.00

8

8

STATE PROJECT NUMBER
3080-01-75

NOTES

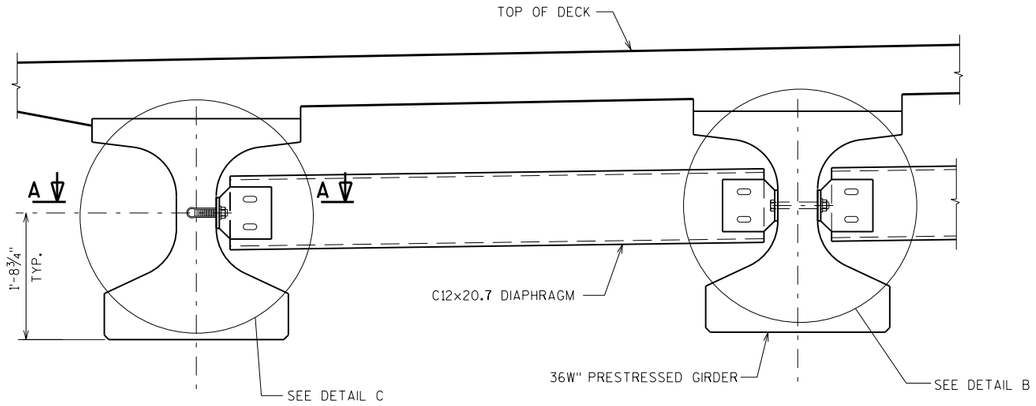
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-13-893", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

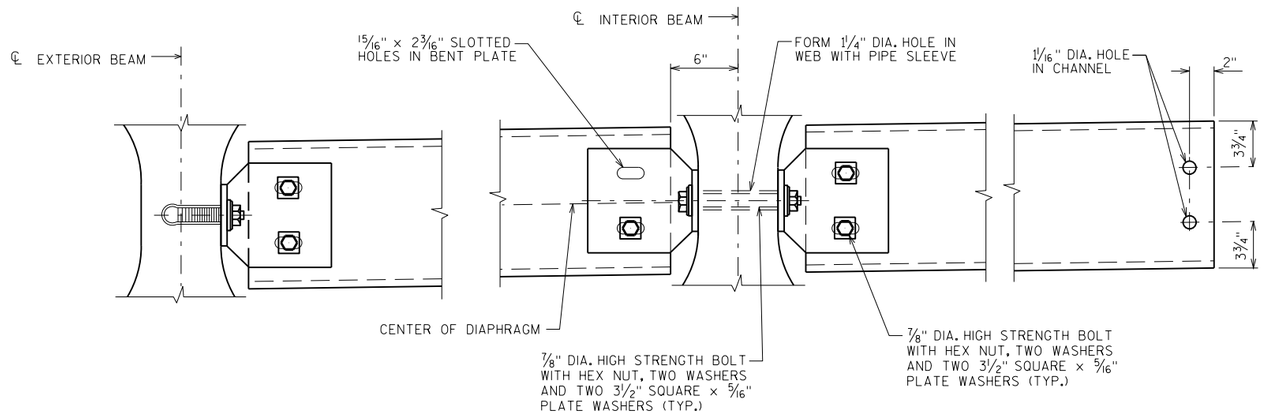
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS 1/4 TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

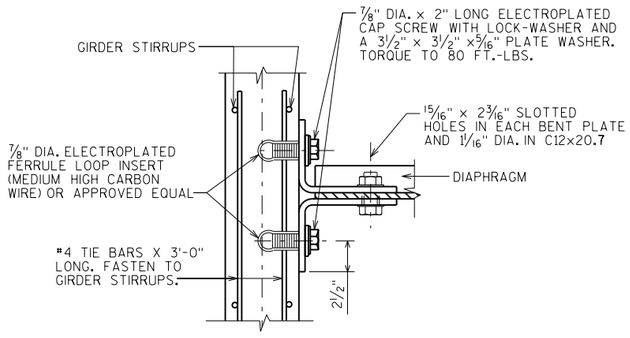


PART TRANSVERSE SECTION AT DIAPHRAGM

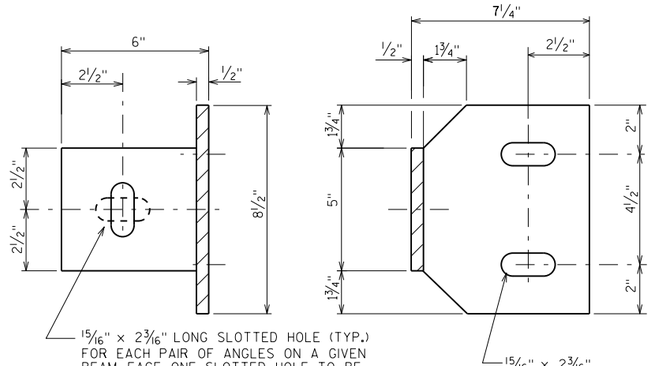


DETAIL C

DETAIL B

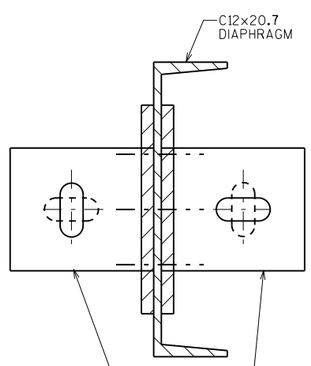


SECTION A-A
(FOR EXTERIOR ATTACHMENT)



BEAM FACE

DIAPHRAGM FACE



ATTACHMENT TO CHANNEL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY	DDS	PLANS CK'D.	JRS

STEEL DIAPHRAGM

SHEET 16

937

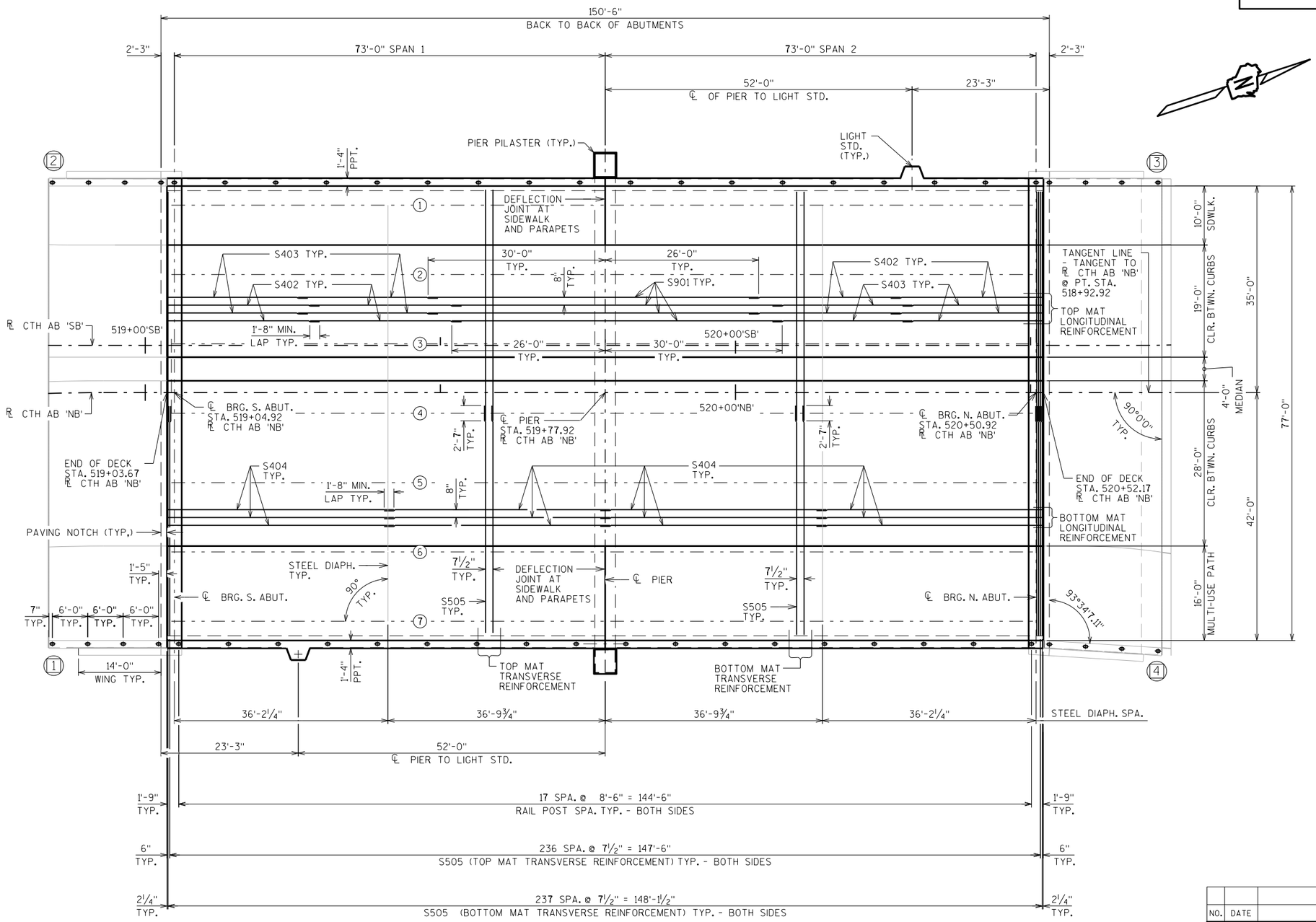
SCALE = 1.00

8

8

STATE PROJECT NUMBER

3080-01-75



PLAN

LEGEND

⬡ INDICATES WING NUMBER

◯ INDICATES GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY DDS | PLANS CK'D. KHB

SUPERSTRUCTURE PLAN

SHEET 17

938

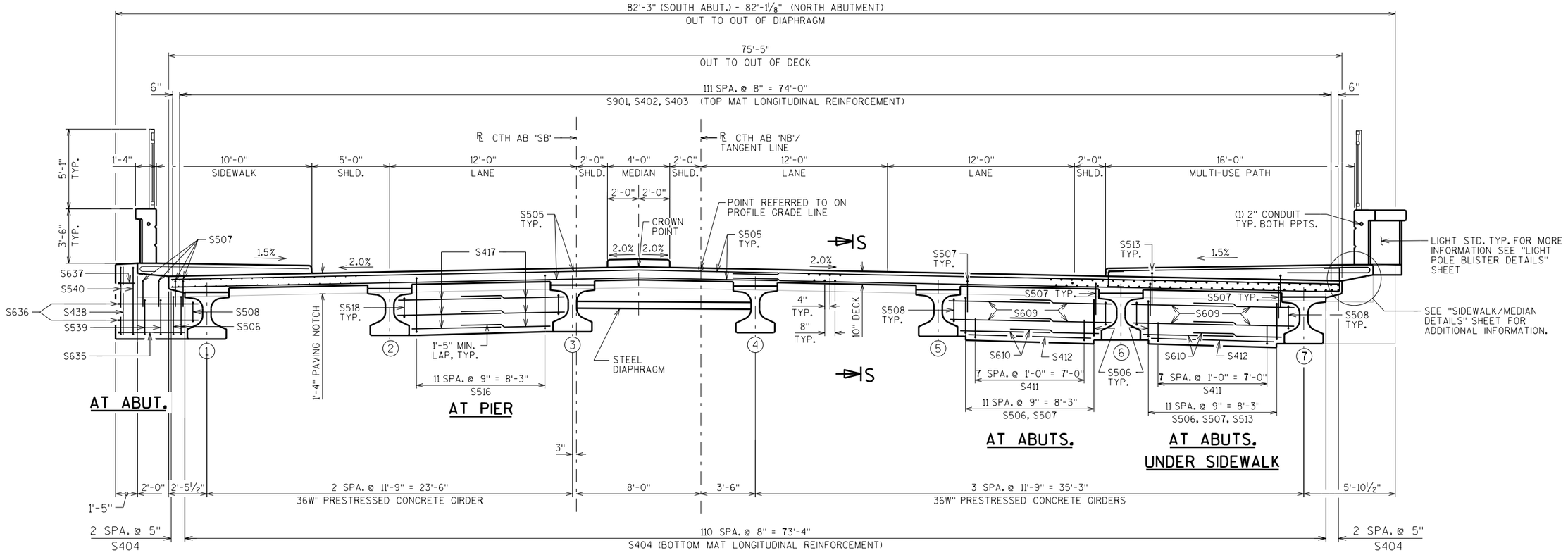
SCALE = 9.00

8

8

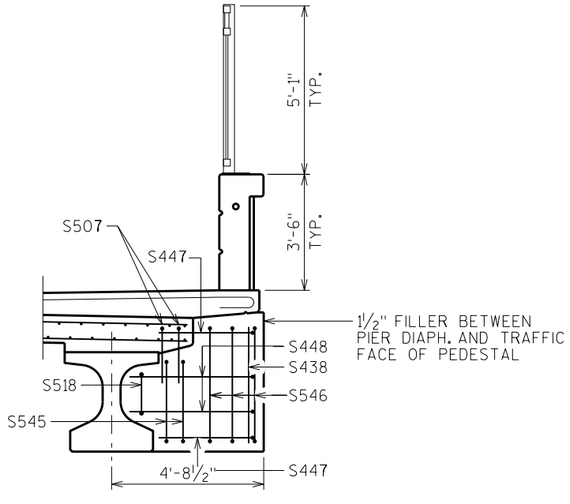
STATE PROJECT NUMBER

3080-01-75

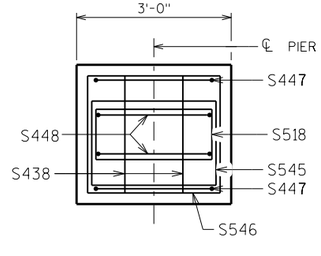


CROSS SECTION THRU ROADWAY

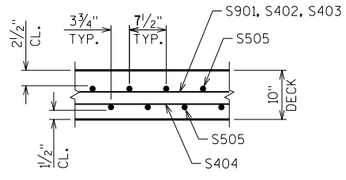
(LOOKING NORTH)



PIER DIAPHRAGM ELEVATION VIEW



PIER DIAPHRAGM END VIEW



SECTION S-S

LEGEND

◯ INDICATES GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY DDS | PLANS CK'D. KHB

SUPERSTRUCTURE CROSS SECTION THRU ROADWAY

SHEET 18

939

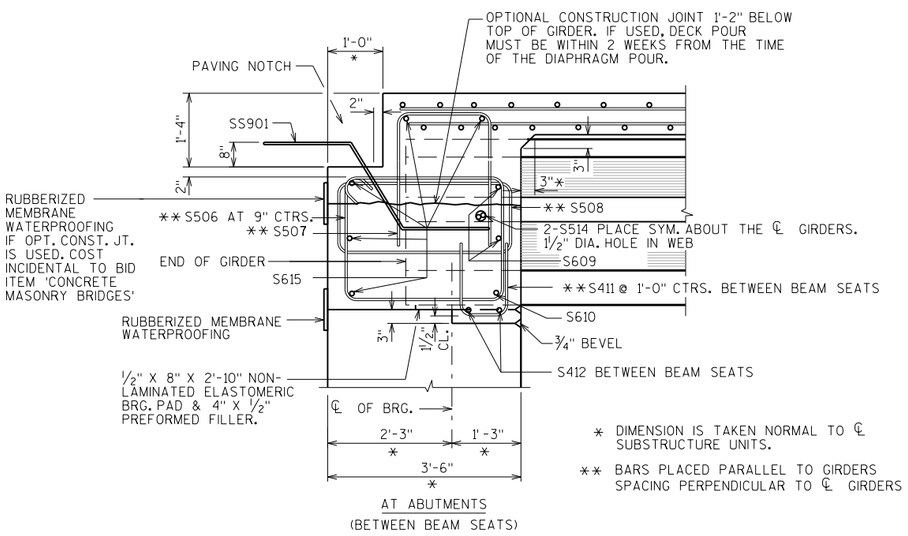
SCALE = 10.00

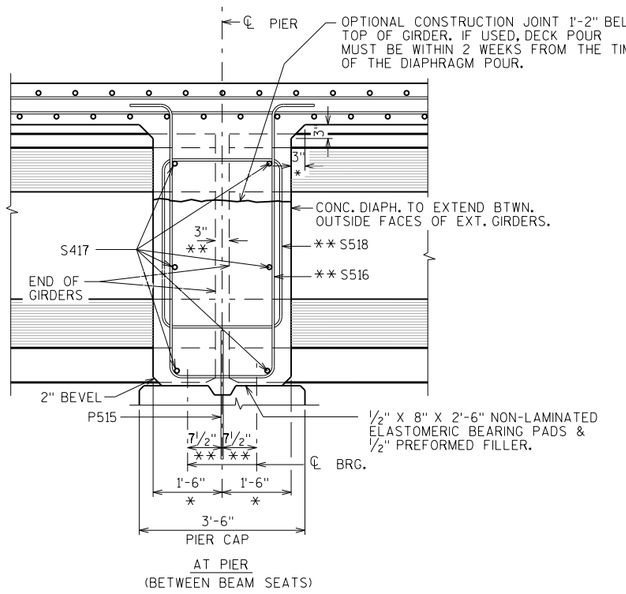
8

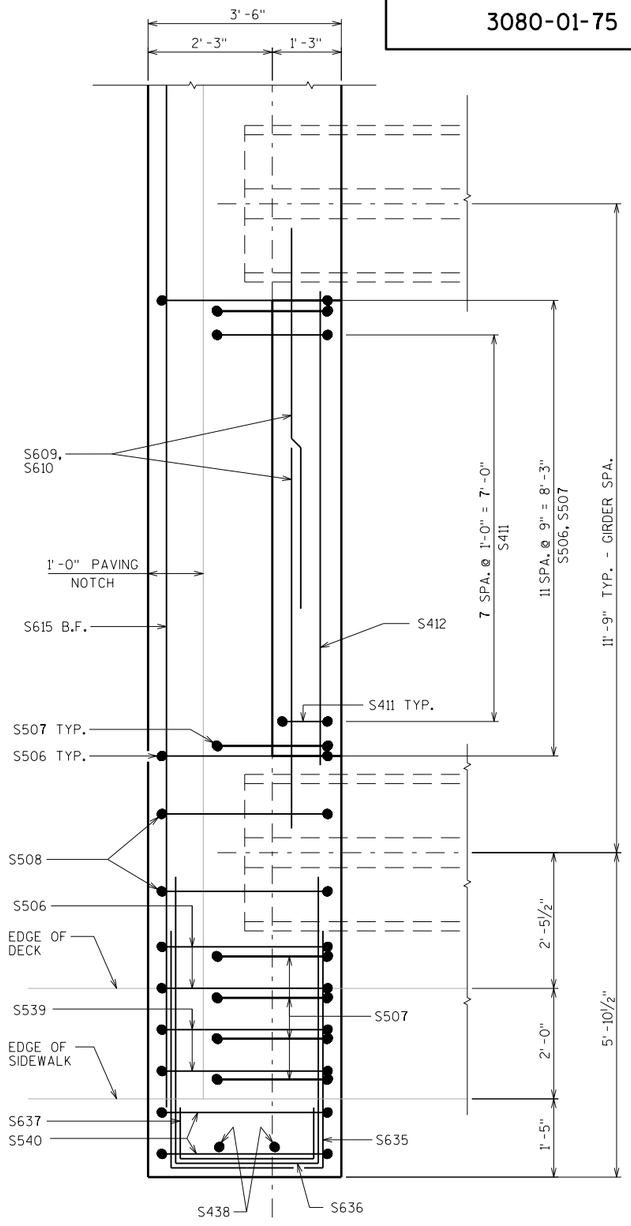
8

STATE PROJECT NUMBER

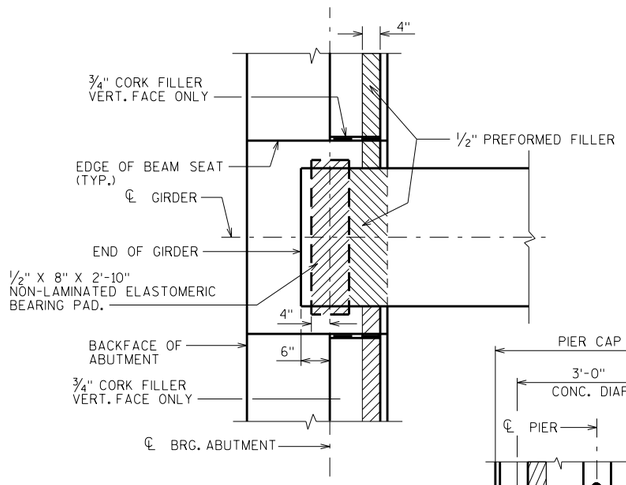
3080-01-75

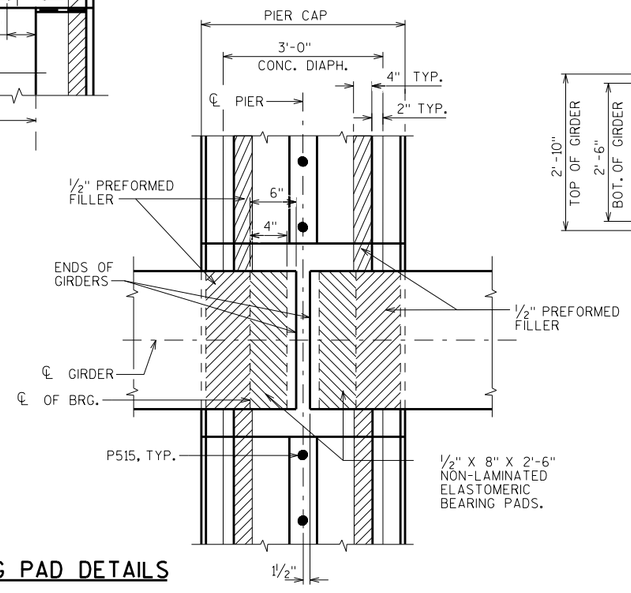




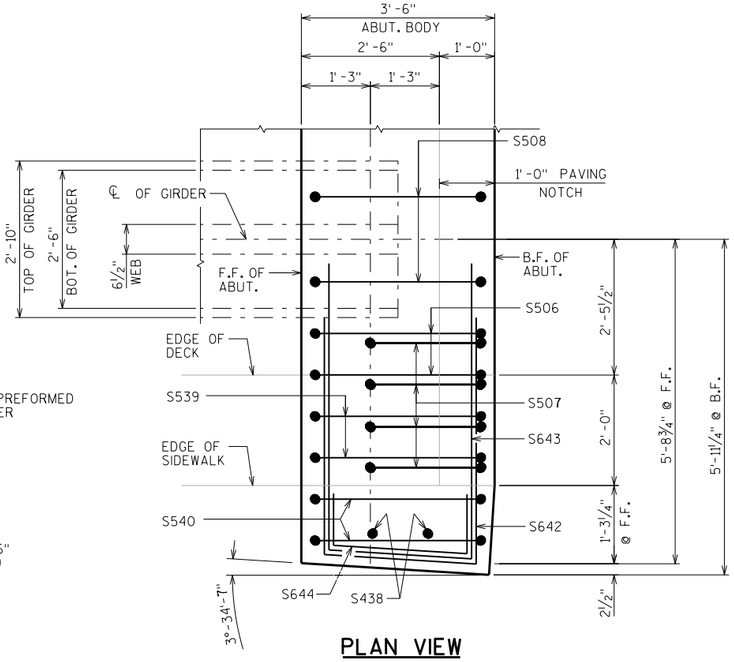


PART LONGIT. SECTIONS





BEARING PAD DETAILS



PLAN VIEW ABUT. DIAPH.

WING 4 ONLY

PLAN VIEW ABUT. DIAPH.

WING 1 SHOWN
WINGS 2&3 SIMILAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY DDS | PLANS CK'D. KHB

SUPERSTRUCTURE CROSS SECTION DETAILS

SHEET 19

940

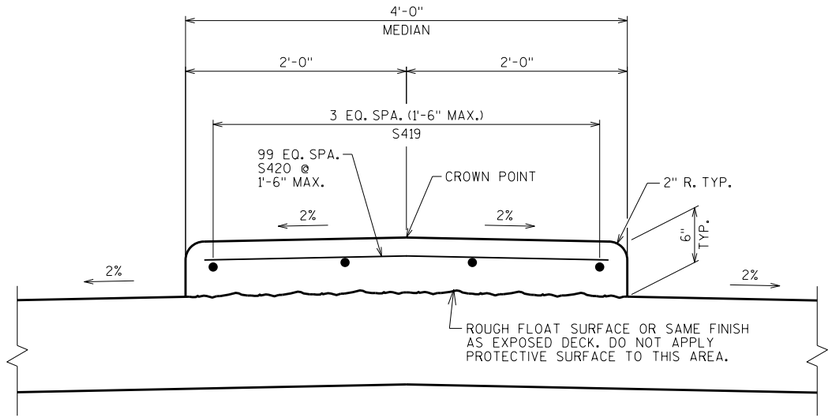
SCALE = 1.33

8

8

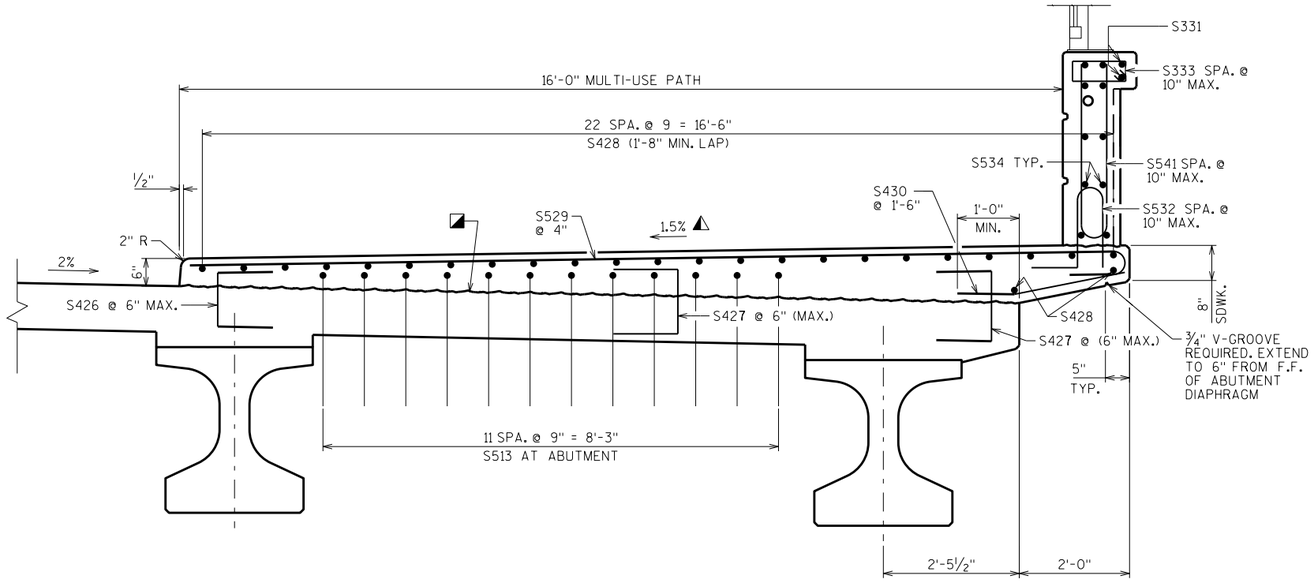
STATE PROJECT NUMBER

3080-01-75



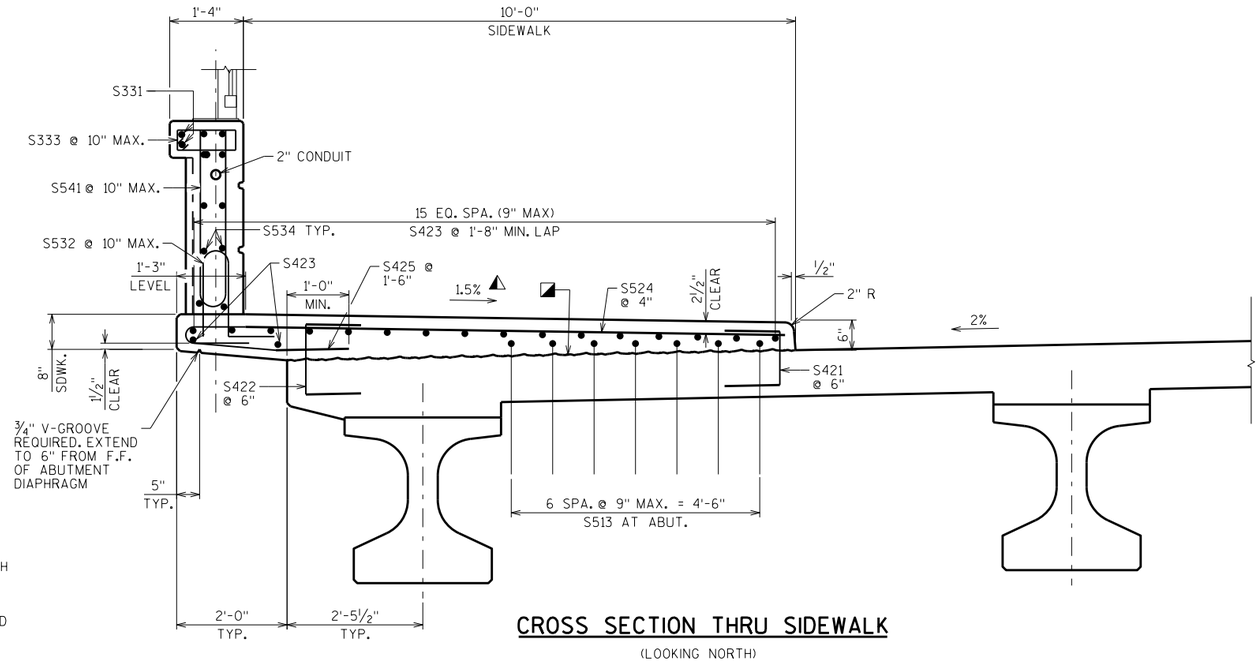
CROSS SECTION THRU MEDIAN DETAIL

CLEAN ALL LOOSE MATERIAL ON THE DECK AT THE MEDIAN LOCATION PRIOR TO MEDIAN PLACEMENT USING HIGH PRESSURE WATER OR AIR. ALL FREE STANDING WATER IS TO BE REMOVED BE PRIOR TO MEDIAN PLACEMENT. NEAT CEMENT IS REQUIRED PER 509.3.9.2 OF THE STANDARD SPECIFICATIONS UNLESS THE MEDIAN IS POURED WITHIN 45 DAYS OF COMPLETETING THE DECK POUR.



CROSS SECTION THRU MULTI-USE PATH

(LOOKING NORTH)



CROSS SECTION THRU SIDEWALK

(LOOKING NORTH)

◪ = CONSTRUCTION JOINT - STRIKE OFF AND LEAVE ROUGH FOR DECK POUR MATCH BRIDGE CROSS-SLOPE.

◭ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FRONM THE ENGINEER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY DDS | PLANS CK'D. KHB

SIDEWALK/MEDIAN DETAILS

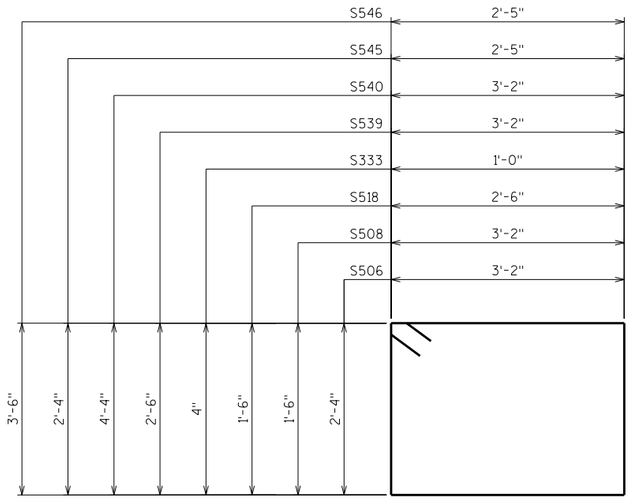
SHEET 20

941

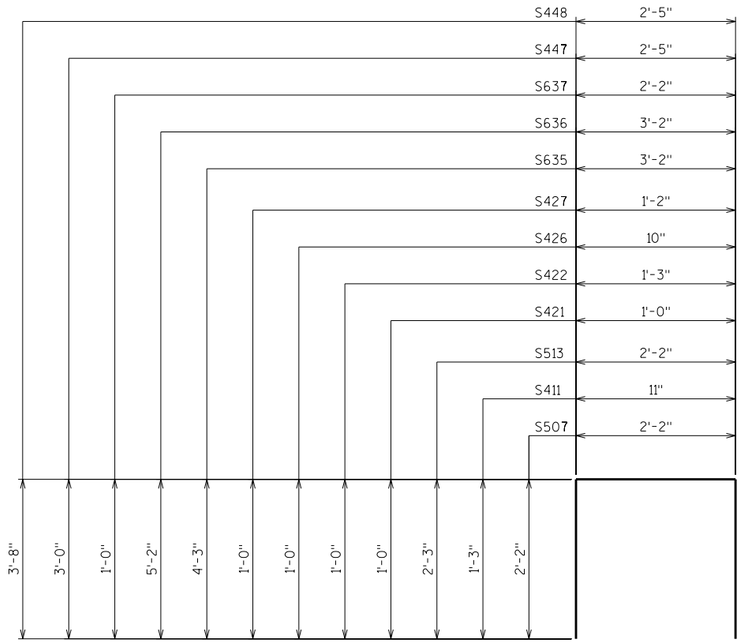
SCALE = 8.00

8

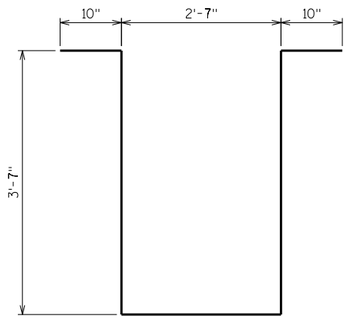
8



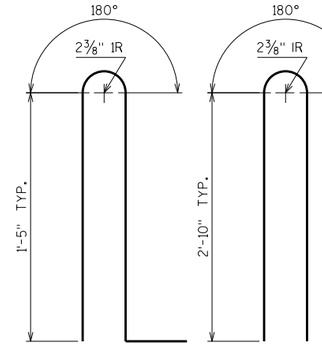
S506, S508, S518, S333, S539, S540, S545, S546



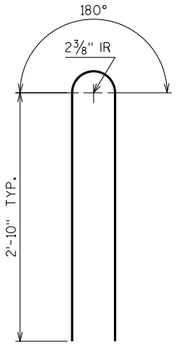
S507, S411, S513, S421, S422, S426, S427
S427, S635, S636, S637, S447, S448



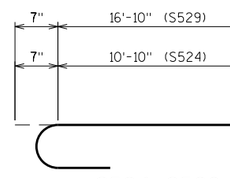
S516



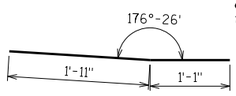
S532



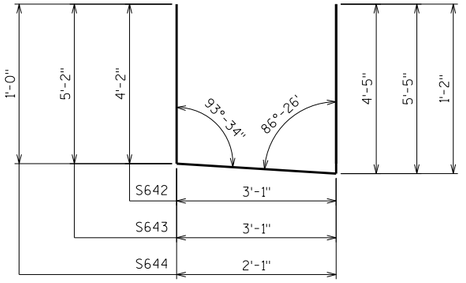
S541



S524, S529
(STD. 180° HOOK)



S425, S430



S642, S643, S644

TOP OF DECK - ELEVATION

	CL BRG S ABUT	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CL BRG PIER	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CL BRG N ABUT
W EDGE OF DECK	905.56	905.61	905.65	905.70	905.74	905.78	905.81	905.83	905.85	905.86	905.86	905.86	905.85	905.84	905.81	905.79	905.75	905.71	905.67	905.62	905.58
GIRDER 1	905.61	905.66	905.70	905.75	905.79	905.83	905.86	905.88	905.90	905.91	905.91	905.91	905.90	905.89	905.86	905.83	905.80	905.76	905.71	905.67	905.63
W EDGE OF SIDEWALK (GUTTER)	905.75	905.79	905.84	905.88	905.93	905.96	905.99	906.02	906.03	906.04	906.05	906.04	906.04	906.02	906.00	905.97	905.93	905.89	905.85	905.81	905.76
GIRDER 2	905.85	905.89	905.94	905.98	906.03	906.06	906.09	906.12	906.13	906.14	906.15	906.14	906.14	906.12	906.10	906.07	906.03	905.99	905.95	905.91	905.86
GIRDER 3	906.08	906.13	906.17	906.22	906.26	906.30	906.33	906.35	906.37	906.38	906.38	906.38	906.37	906.36	906.33	906.30	906.27	906.23	906.18	906.14	906.10
SB PGL	906.09	906.13	906.18	906.22	906.27	906.30	906.33	906.36	906.37	906.38	906.39	906.38	906.38	906.36	906.34	906.31	906.27	906.23	906.19	906.15	906.10
W EDGE OF MEDIAN	906.13	906.17	906.22	906.26	906.31	906.34	906.37	906.40	906.41	906.42	906.43	906.42	906.42	906.40	906.38	906.35	906.31	906.27	906.23	906.19	906.14
CROWN	906.17	906.21	906.26	906.30	906.35	906.38	906.41	906.44	906.45	906.46	906.47	906.46	906.46	906.44	906.42	906.39	906.35	906.31	906.27	906.23	906.18
E EDGE OF MEDIAN	906.13	906.17	906.22	906.26	906.31	906.34	906.37	906.40	906.41	906.42	906.43	906.42	906.42	906.40	906.38	906.35	906.31	906.27	906.23	906.19	906.14
TANGENT	906.09	906.13	906.18	906.22	906.27	906.30	906.33	906.36	906.37	906.38	906.39	906.38	906.38	906.36	906.34	906.31	906.27	906.23	906.19	906.15	906.10
NB PGL	906.09	906.13	906.18	906.22	906.27	906.30	906.33	906.36	906.37	906.38	906.39	906.38	906.38	906.36	906.34	906.31	906.27	906.23	906.19	906.15	906.10
GIRDER 4	906.02	906.06	906.11	906.15	906.20	906.23	906.26	906.29	906.30	906.31	906.32	906.31	906.31	906.29	906.27	906.24	906.20	906.16	906.12	906.08	906.03
GIRDER 5	905.78	905.83	905.87	905.92	905.96	906.00	906.03	906.05	906.07	906.08	906.08	906.08	906.07	906.06	906.03	906.00	905.97	905.93	905.88	905.84	905.80
E EDGE OF SIDEWALK (GUTTER)	905.57	905.61	905.66	905.70	905.75	905.78	905.81	905.84	905.85	905.86	905.87	905.86	905.86	905.84	905.82	905.79	905.75	905.71	905.67	905.63	905.58
GIRDER 6	905.55	905.59	905.64	905.68	905.73	905.76	905.79	905.82	905.83	905.84	905.85	905.84	905.84	905.82	905.80	905.77	905.73	905.69	905.65	905.61	905.56
GIRDER 7	905.31	905.36	905.40	905.45	905.49	905.53	905.56	905.58	905.60	905.61	905.61	905.61	905.60	905.59	905.56	905.53	905.50	905.46	905.41	905.37	905.33
E EDGE OF DECK	905.26	905.31	905.35	905.40	905.44	905.48	905.51	905.53	905.55	905.56	905.56	905.56	905.55	905.54	905.51	905.49	905.45	905.41	905.37	905.32	905.28

COATED: 118,150 LBS.
STAINLESS STEEL: 3,060 LBS.

STATE PROJECT NUMBER
3080-01-75

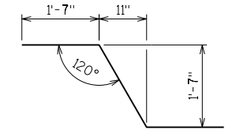
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S901	X	114	56'-0"			CONTINUTITY REINFORCEMENT OVER PIER
S402	X	228	23'-9"			DECK - LONGIT. - TOP
S403	X	228	25'-9"			DECK - LONGIT. - TOP
S404	X	460	38'-4"			DECK - LONGIT. - BOTTOM
S505	X	950	38'-10"			DECK - TRANS. - TOP & BOTTOM
S506	X	152	11'-8"	X		ABUT. DIAPH. - STIRRUP
S507	X	164	6'-3"	X		ABUT. AND PIER DIAPH. - VERT.
S508	X	28	10'-0"	X		ABUT. DIAPH. - STIRRUP AT GIRDERS
S609	X	48	6'-7"			ABUT. DIAPH. - HORIZ. - F.F.
S610	X	24	5'-9"			ABUT. DIAPH. - HORIZ. - F.F.
S411	X	96	3'-3"	X		ABUT. DIAPH. - VERT.
S412	X	24	7'-11"			ABUT. DIAPH. - HORIZ. - BOTTOM
S513	X	38	6'-5"	X		ABUT. DIAPH. - VERT. - INTO SIDEWALK
S514	X	28	6'-0"			ABUT. DIAPH. - HORIZ. - REINF. THRU GIRDERS
S615	X	20	43'-1"			ABUT. DIAPH. - HORIZ. - B.F.
S516	X	72	11'-0"	X		PIER DIAPH. - VERT.
S417	X	36	6'-8"			PIER DIAPH. - HORIZ.
S518	X	14	9'-0"			PIER DIAPH. - STIRRUP AT GIRDERS
S419	X	16	37'-7"			MEDIAN - LONGIT.
S420	X	100	3'-7"			MEDIAN - TRANS.
S421	X	298	2'-10"	X		SIDEWALK/DECK - TIE BARS - ROADWAY EDGE
S422	X	298	3'-1"	X		SIDEWALK/DECK - TIE BARS - EDGE OF DECK
S423	X	76	38'-6"			SIDEWALK - LONGIT.
S524	X	448	11'-5"	X		SIDEWALK - TRANS. - TOP
S425	X	100	3'-0"	X		SIDEWALK - TRANS. - BOTTOM
S426	X	596	2'-8"	X		MULTI-USE-PATH/DECK - TIE BARS - F.F.
S427	X	298	3'-0"	X		MULTI-USE-PATH/DECK - TIE BARS - B.F.
S428	X	104	38'-6"			MULTI-USE-PATH - LONGIT.
S529	X	448	17'-5"			MULTI-USE-PATH - TRANS. - TOP
S430	X	100	3'-0"	X		MULTI-USE-PATH - TRANS. - BOTTOM
S331	X	16	37'-10"			PARAPET - LONGIT. - TOP
S532	X	360	4'-4"	X		PARAPET - VERT.
S333	X	360	3'-1"	X		PARAPET - STIRRUP - TOP
S534	X	80	38'-2"			PARAPET - LONGIT. - HORIZ.
S635	X	3	11'-4"	X		ABUT. DIAPH. - HORIIZ. - END
S636	X	6	13'-2"	X		ABUT. DIAPH. - HORIZ. - END
S637	X	3	3'-11"	X		ABUT. DIAPH. - HORIZ. - END
S438	X	12	4'-4"			ABUT. AND PIER DIAPH. - VERT.
S539	X	8	12'-0"	X		ABUT. DIAPH. - STIRRUP - END
S540	X	8	15'-8"	X		ABUT. DIAPH. - STIRRUP - END
S541	X	360	6'-8"	X		PARAPET - STIRRUP
S642	X	1	11'-5"	X		ABUT. DIAPH. - WING 4 - HORIIZ. - END
S643	X	2	13'-5"	X		ABUT. DIAPH. - WING 4 - HORIIZ. - END
S644	X	1	4'-1"	X		ABUT. DIAPH. - WING 4 - HORIIZ. - END
S545	X	4	10'-2"	X		PIER DIAPH. - VERT. - END
S546	X	6	12'-6"	X		PIER DIAPH. - VERT. - END
S447	X	4	8'-3"	X		PIER DIAPH. - HORIZ. - END
S448	X	4	9'-6"	X		PIER DIAPH. - HORIZ. - END
SS901		180	5'-0"	X		SUPER/APPROACH SLAB - TIE BAR

STAINLESS STEEL

NOTE:
BILL OF BARS CONTINUED ON 'LIGHT POLE BLISTER DETAILS' SHEET.



SS901
STAINLESS STEEL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY DDS | PLANS CK'D. KHB

SUPERSTRUCTURE REINF. AND DECK ELEVATIONS

SHEET 21

942

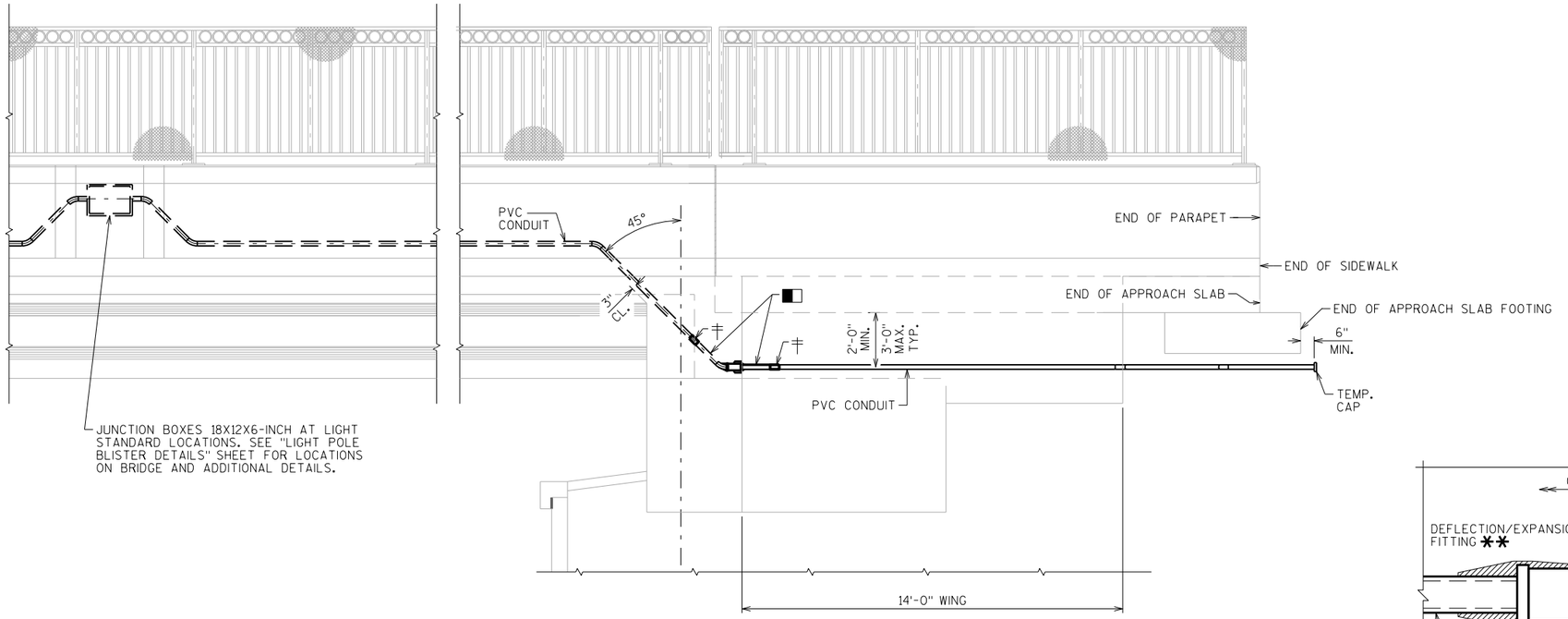
SCALE = 1.00

8

8

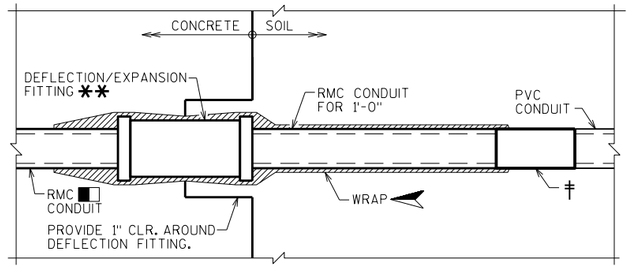
STATE PROJECT NUMBER

3080-01-75

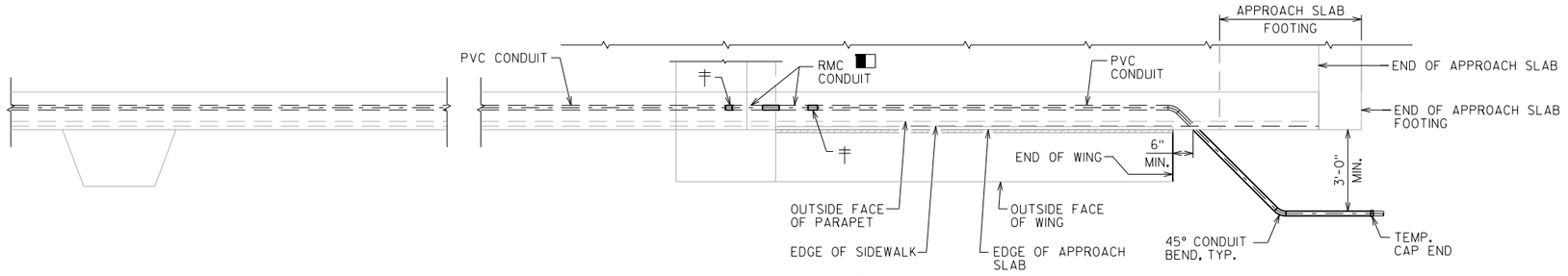


ELEVATION - EXTERIOR PARAPET

TYP. - AT ALL WINGS



DEFLECTION/EXPANSION FITTING



PLAN

TYP. AT ALL WINGS

LEGEND

■ USE 2" DIA. RIGID METALLIC (RMC) CONDUIT AT FITTINGS. PROVIDE RMC FOR 3'-0" MIN. ON EACH SIDE OF JOINT OPENINGS UNLESS NOTED OTHERWISE.

‡ NONMETALLIC CONDUIT TO METALLIC CONDUIT ADAPTER FITTING (UL OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED).

SPONGE RUBBER WRAP TO BE AASHTO M153, TYPE 1 OR EQUIVALENT - 1/4" MINIMUM THICKNESS. PROVIDE WRAP FOR THE ENTIRE LENGTH OF THE FITTING OR AS SHOWN. SPONGE RUBBER WRAP INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH".

** DEFLECTION/EXPANSION FITTING REQUIREMENTS (IF USED):
UP TO 3/4" CONDUIT CONTRACTION OR EXPANSION AND UP TO 30° OF ANGULAR MISALIGNMENT IN ANY DIRECTION WITH BONDING JUMPER

PVC - POLYVINYL CHLORIDE (RIGID NONMETALLIC) CONDUIT

NOTES

BID ITEMS SHALL BE
"JUNCTION BOXES 18X12X6-INCH, EACH
"CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH" LF
"CONDUIT RIGID NONMETALLIC 2-INCH" LF

CONDUIT SHALL BE EMBEDDED 2" CLEAR.

USE 2" DIA. RIGID NONMETALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE.

CONDUIT FITTINGS, CONDUIT BENDS, AND ADAPTER FITTINGS INCIDENTAL TO CONDUIT WORK.

CONDUIT BENDS SHALL CONFORM TO THE NATIONAL ELECTRIC CODE.

PROVIDE JUNCTION BOXES FROM THE APPROVED PRODUCTS LIST.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY DDS | PLANS CK'D. JRS

CONDUIT DETAILS

SHEET 22

943

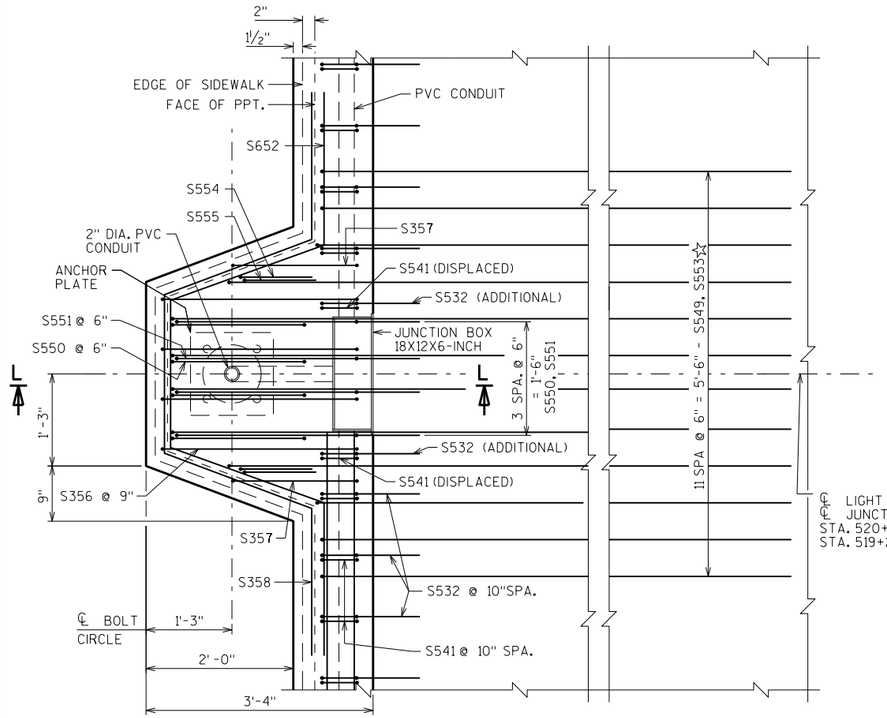
SCALE = 2.50

8

8

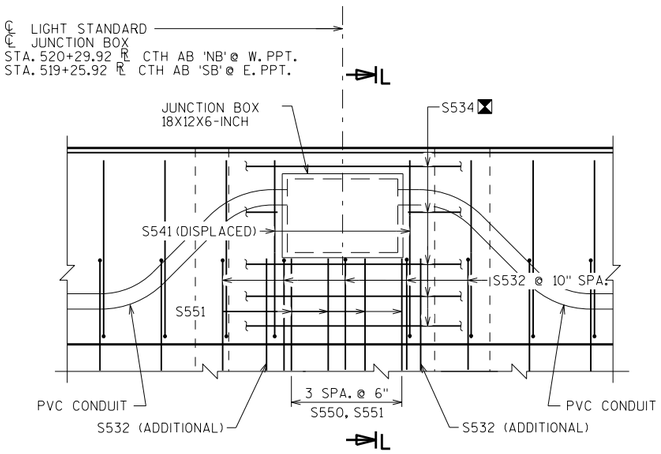
STATE PROJECT NUMBER

3080-01-75



PLAN AT LIGHT STANDARD

(DECK STEEL NOT SHOWN FOR CLARITY)



INSIDE ELEVATION AT JUNCTION BOX

(DECK STEEL NOT SHOWN FOR CLARITY)

NOTES

BID ITEM SHALL BE:
"JUNCTION BOXES 18X12X6-INCH", EACH
"ANCHOR ASSEMBLIES POLES ON STRUCTURES", EACH
"CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH", LF
"CONDUIT RIGID METALLIC 2-INCH", LF

CONDUIT SHALL BE EMBEDDED 2" CLEAR.

USE 2" DIA. RIGID NONMETALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE.

CONDUIT FITTINGS, CONDUIT BENDS, AND ADAPTER FITTINGS INCIDENTAL TO CONDUIT WORK.

PROVIDE JUNCTION BOXES FROM THE APPROVED PRODUCTS LIST.

SEE "CONDUIT DETAILS" SHEET FOR ADDITIONAL INFORMATION.

LEGEND

◐ CONSTRUCTION JOINT, STRIKE OFF AS SHOWN.

◭ CUT OUT ± 1" OF GASKET AT BOTTOM OF JUNCTION BOX COVER TO ALLOW FOR DRAINAGE.

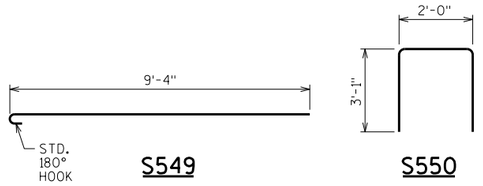
▽ LOCATION OF CONDUIT IS MEASURED FROM OUTSIDE EDGE OF JUNCTION BOX.

PVC = POLYVINYL CHLORIDE (RIGID NONMETALLIC) CONDUIT

☆ THESE BARS ARE IN ADDITION TO STANDARD TRANSVERSE BARS IN SIDEWALK.

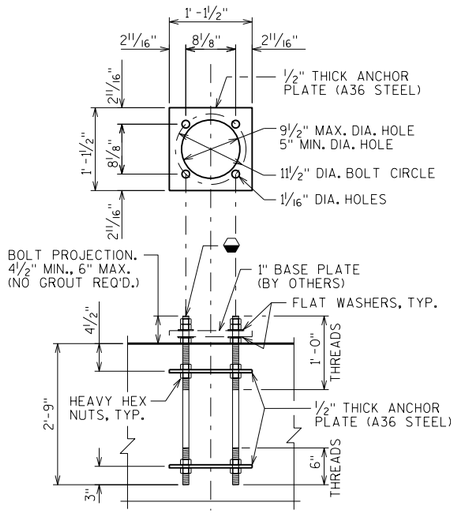
◒ 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.

⊠ FIELD CUT F.F. S534 TO AVOID CONFLICT WITH JUNCTION BOX. COAT CUT BAR STEEL ENDS WITH EPOXY IN ACCORDANCE WITH SUBSECTION 505.2.4.2 OF THE STANDARDS SPECIFICATIONS.



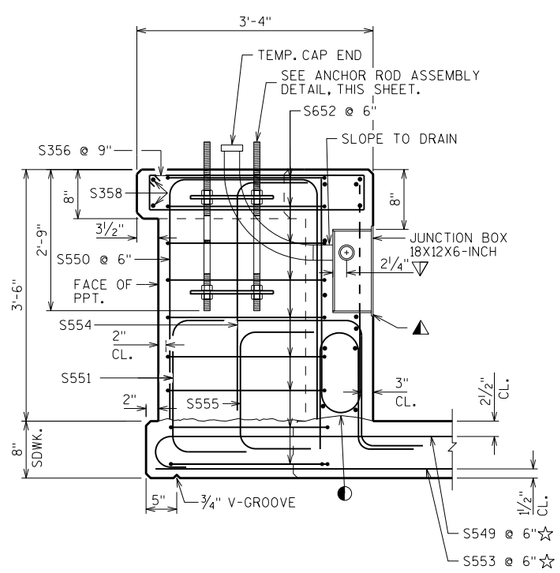
S549

S550

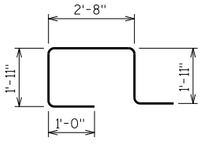


ANCHOR ROD ASSEMBLY DETAILS

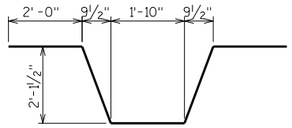
(2 REQ'D.)
(4) - ANCHOR RODS REQUIRED PER ASSEMBLY



SECTION L-L



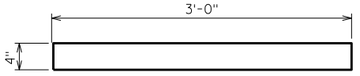
S551



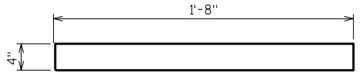
S652

S554

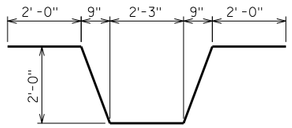
S555



S356



S357



S358

BILL OF BARS (CONTINUED)

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

SEE "SUPERSTRUCTURE REINF. AND DECK ELEVATIONS" SHEET FOR TOTAL SUPERSTRUCTURE BAR WEIGHT

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S549	X	24	9'-11"	X		LIGHT STD. - TRANS. - SDWK. - TOP
S550	X	8	7'-11"	X		LIGHT STD. - VERT. - PARAPET
S551	X	8	8'-0"	X		LIGHT STD. - VERT. - PARAPET
S652	X	18	9'-10"	X		LIGHT STD. - HORIZ. - PARAPET
S553	X	24	9'-4"			LIGHT STD. - TRANS. - SDWK. - BOT
S554	X	4	4'-0"	X		LIGHT STD. - VERT. - PARAPET
S555	X	4	3'-4"	X		LIGHT STD. - VERT. - PARAPET
S356	X	8	7'-1"	X		LIGHT STD. - VERT. - PARAPET - TOP
S357	X	4	4'-5"	X		LIGHT STD. - VERT. - PARAPET - TOP
S358	X	4	10'-4"	X		LIGHT STD. - HORIZ. - PARAPET - TOP

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY DDS | PLANS CK'D. JRS

LIGHT POLE BLISTER DETAILS

SHEET 23

944

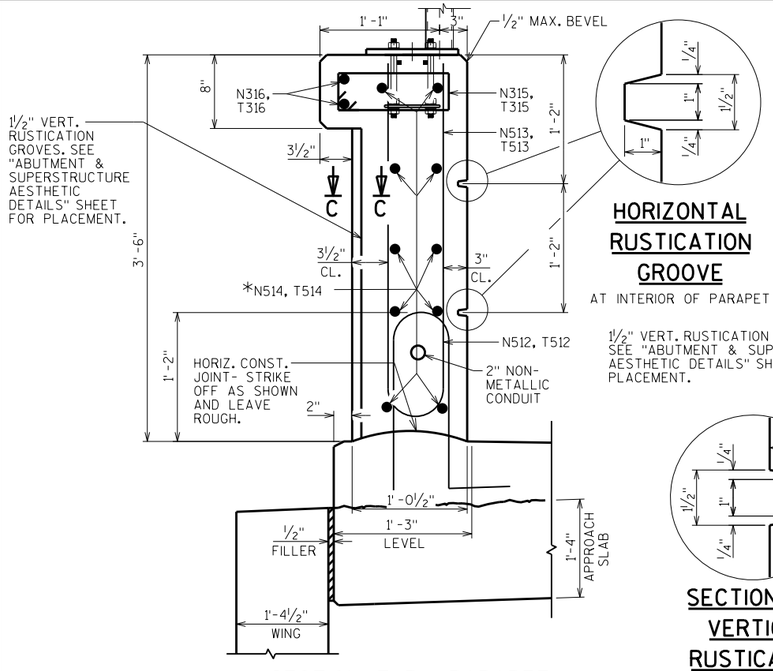
SCALE = 1.00

8

8

STATE PROJECT NUMBER

3080-01-75



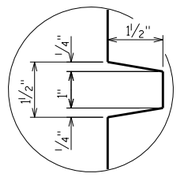
SECTION THRU PARAPET ON APPROACH SLAB

* ADJUST LOCATIONS OF BARS TO ALLOW PLACEMENT OF ANCHOR ASSEMBLY FOR RAILING.

HORIZONTAL RUSTICATION GROOVE

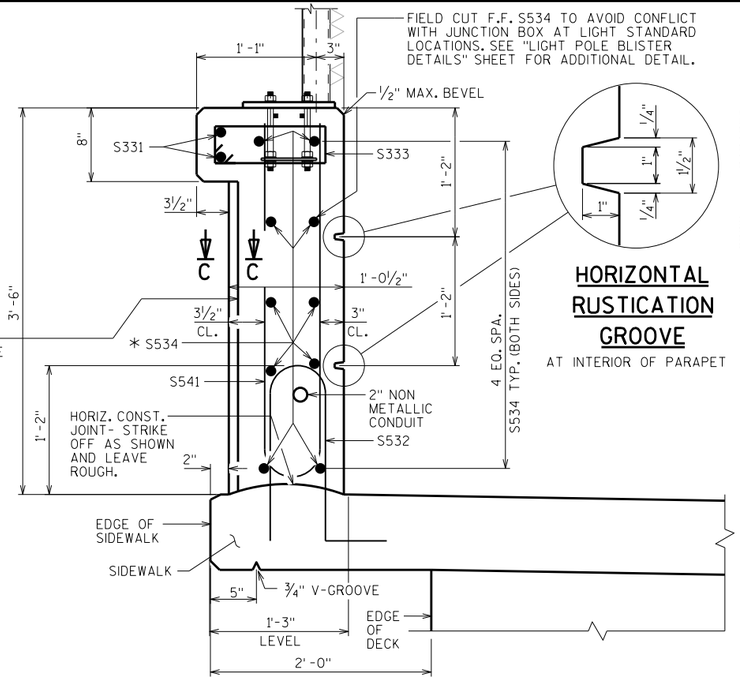
AT INTERIOR OF PARAPET

1½" VERT. RUSTICATION GROVES. SEE "ABUTMENT & SUPERSTRUCTURE AESTHETIC DETAILS" SHEET FOR PLACEMENT.



SECTION C-C VERTICAL RUSTICATION GROOVE

AT EXTERIOR OF PARAPET

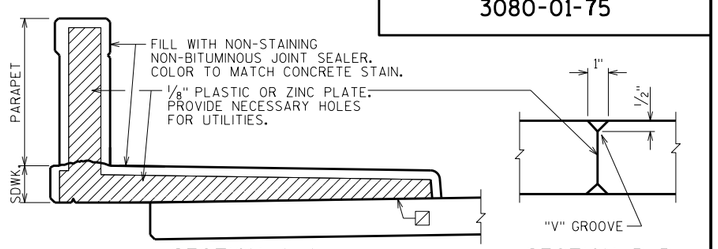


SECTION THRU PARAPET ON BRIDGE

* ADJUST LOCATIONS OF BARS TO ALLOW PLACEMENT OF ANCHOR ASSEMBLY FOR RAILING.

HORIZONTAL RUSTICATION GROOVE

AT INTERIOR OF PARAPET



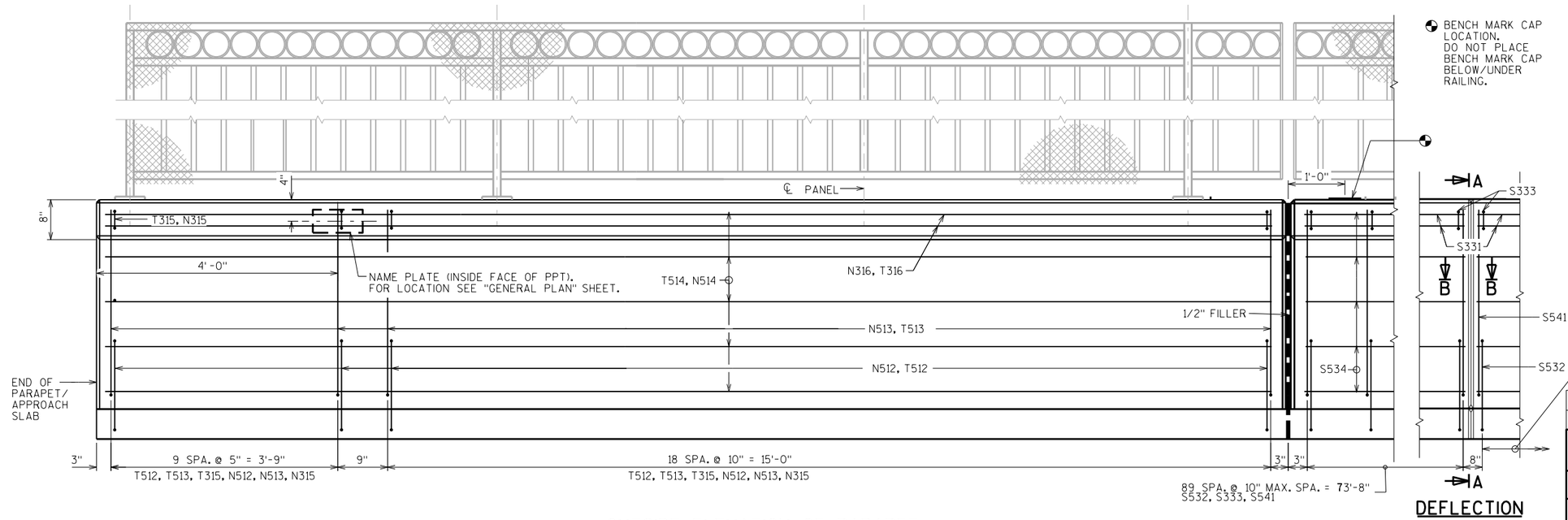
SECTION A-A

(SHOWING DEFLECTION JOINT IN PARAPET AND SIDEWALK.)

WHEN PARAPETS ARE POURED CONTINUOUSLY FROM END TO END, THEY SHALL BE SEPARATED AT THE DEFLECTION JOINTS BY A PIECE OF ⅛" ZINC OR PLASTIC PLATE CUT AS SHOWN IN SECTION A-A BY SHADED AREA. IF CONSTRUCTION JOINTS IN PARAPETS ARE USED AT THE DEFLECTION JOINTS, ONE SIDE OF JOINT SHALL BE COATED WITH AN APPROVED LIQUID BOND BREAKER AND PLATE SEPARATORS MAY BE OMITTED.

▨ HORIZ. CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

SECTION B-B



OUTSIDE ELEVATION OF PARAPET

FOR RAILING TUBULAR SCREENING DETAILS SEE "RAILING DETAILS" SHEET

DEFLECTION JOINT AT PARAPET

SCREENING NOT SHOWN FOR CLARITY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY DDS | PLANS CK'D. JRS

PARAPET & RAILING DETAILS

SHEET 24

945

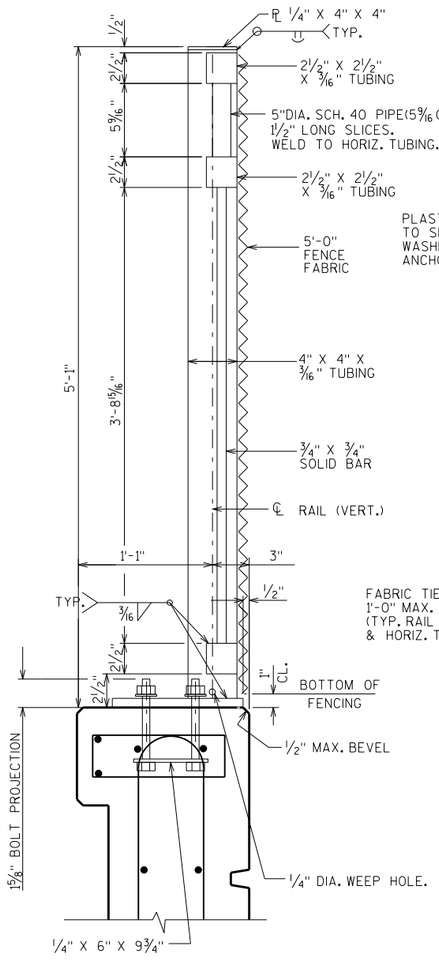
8

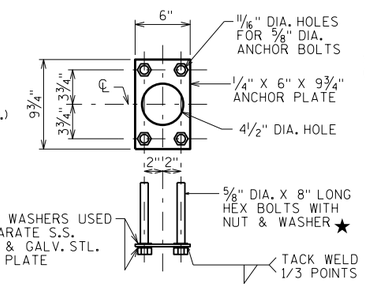
8

SCALE = 1.00

STATE PROJECT NUMBER

3080-01-75

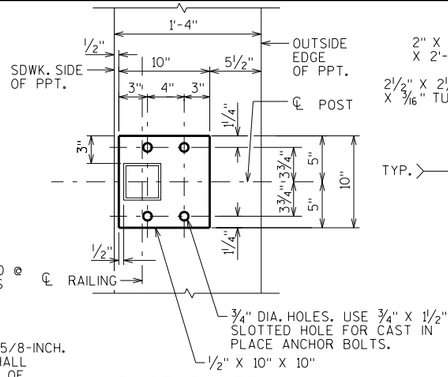




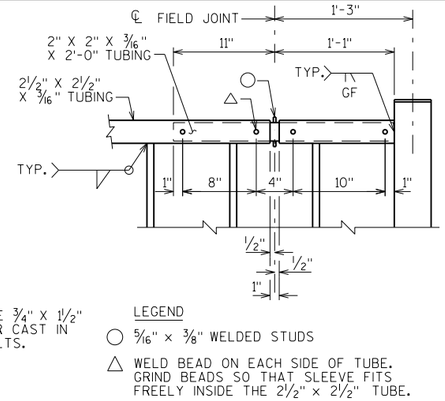
ANCHORAGE DETAIL

★ ALTERNATIVE ANCHORAGE: ADHESIVE ANCHORS 5/8-INCH. EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.

NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



BASE PLATE

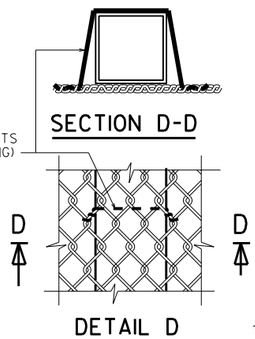


LEGEND

○ 5/16" × ⅜" WELDED STUDS

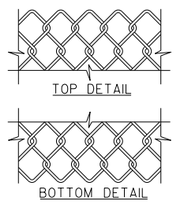
△ WELD BEAD ON EACH SIDE OF TUBE. GRIND BEADS SO THAT SLEEVE FITS FREELY INSIDE THE 2½" × 2½" TUBE.

RAILING EXPANSION JOINT DETAIL

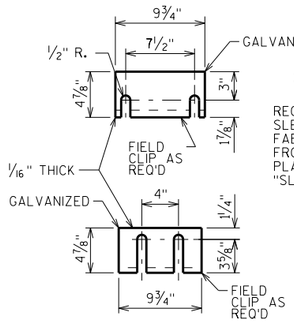


SECTION D-D

DETAIL D

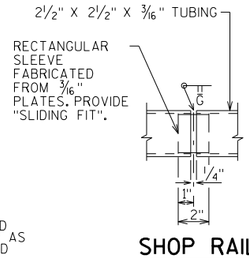


FENCE FABRIC



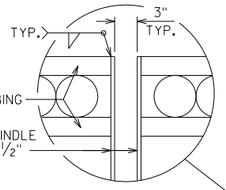
SHIM PLATE DETAILS

TWO SHIMS OF EACH SIZE REQUIRED PER POST

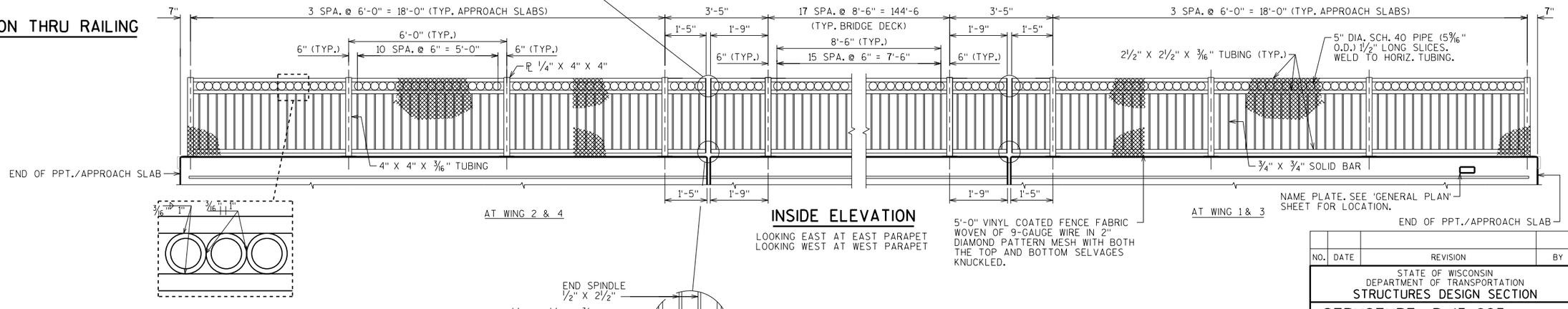


SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



SECTION THRU RAILING



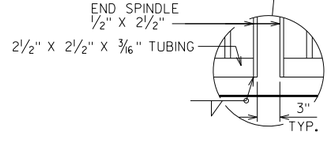
AT WING 2 & 4

AT WING 1& 3

INSIDE ELEVATION

LOOKING EAST AT EAST PARAPET
LOOKING WEST AT WEST PARAPET

5'-0" VINYL COATED FENCE FABRIC WOVEN OF 9-GAUGE WIRE IN 2" DIAMOND PATTERN MESH WITH BOTH THE TOP AND BOTTOM SELVAGES KNUCKLED.



NOTES

BID ITEM SHALL BE "RAILING TUBULAR SCREENING", WHICH SHALL INCLUDE ALL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL PLATES, ANGLES, BARS, SHIMS AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. FENCE FABRIC SHALL CONFORM TO F668, CLASS 2B. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN TRANSVERSE DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS WITH NON-STAINING NON-BITUMINOUS JOINT SEALER. COLOR TO MATCH CONCRETE STAIN.

★ ANCHOR BOLTS, NUTES AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTES, AND WASHERS SHALL BE GALVANIZED.

ALL POST SPACINGS ARE TAKEN HORIZONTAL ALONG CENTERLINE OF RAILING AT BASE OF POST.

ALL RAILING MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED AMS STD. COLOR NO. 27038, BLACK

THE END OF THE FABRIC SHALL BE ATTACHED TO THE POST BY MEANS OF A TENSION BAR THREADED THROUGH THE END LOOPS OF THE FABRIC AND SECURED TO THE POST WITH CLAMPS & BOLT. THE FABRIC SHALL BE STRETCHED TO REMOVE ALL SLACK.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 POSTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY DDS | PLANS CK'D. JRS

RAILING DETAILS

SHEET 25

946

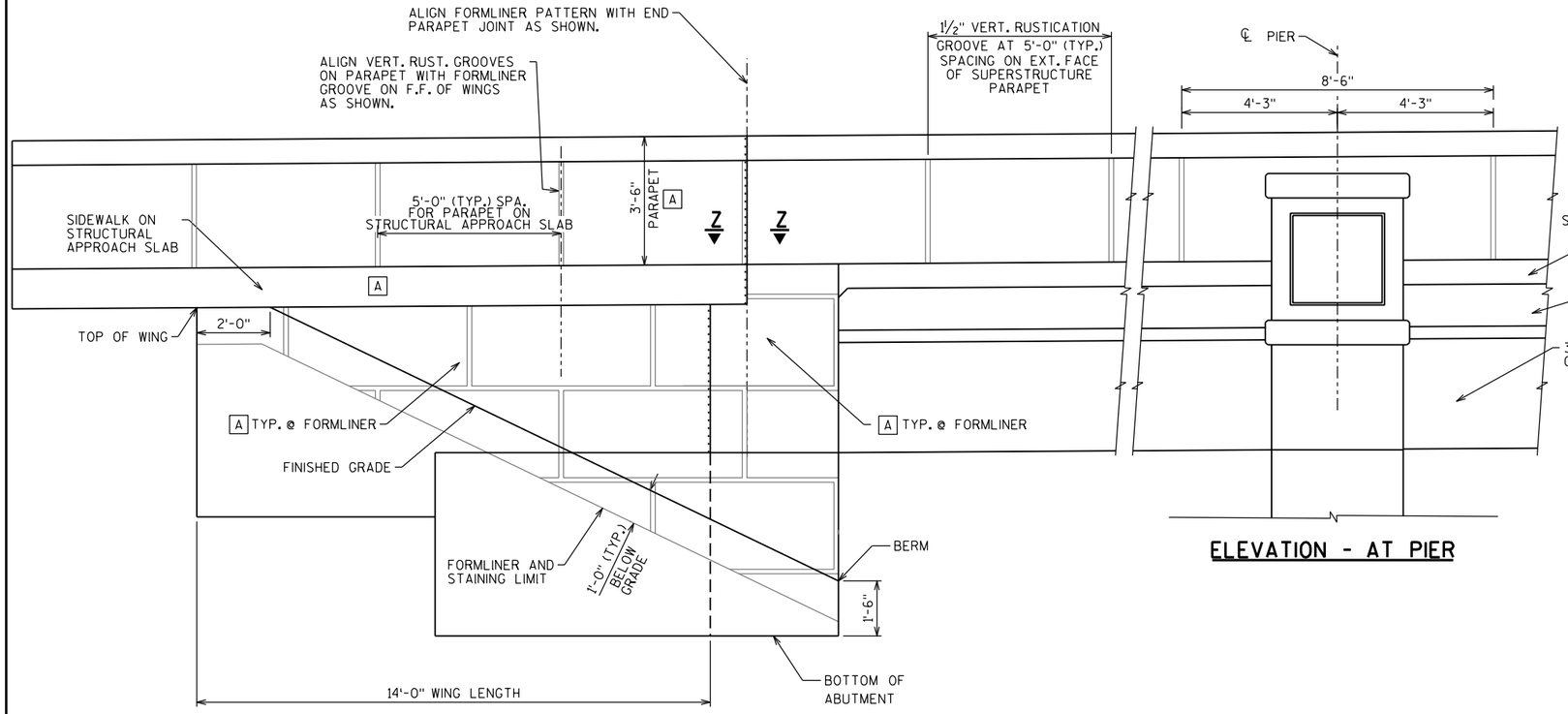
8

8

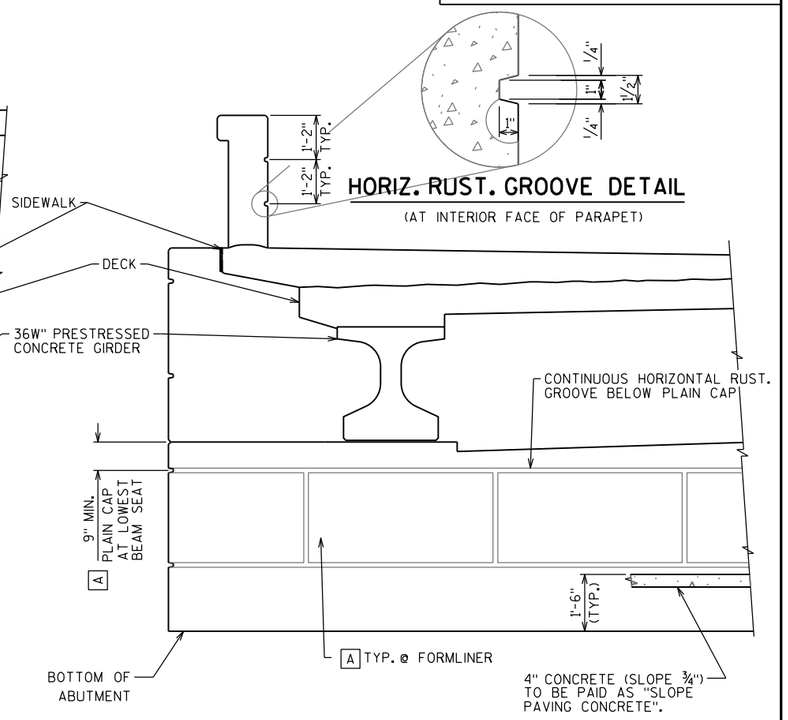
SCALE = 1.00

STATE PROJECT NUMBER

3080-01-75

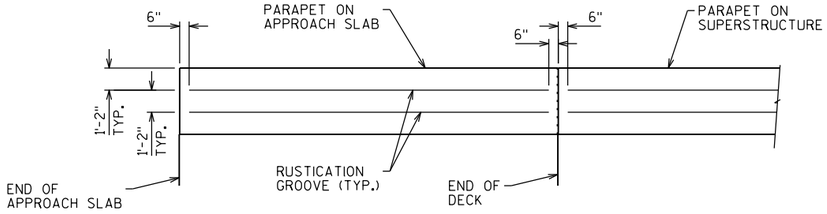


ELEVATION - WING & PART SUPERSTRUCTURE



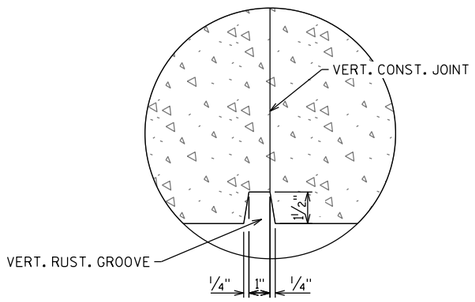
PART ABUTMENT ELEVATION

(LOOKING AT FRONT FACE)



HORIZ. RUSTICATION GROOVE

(AT INTERIOR FACE OF PARAPET)



SECTION Z-Z

(THRU RUSTICATION GROOVE AT VERT. CONST. JOINT IN PARAPET)

STAINING LEGEND

A BASE COLOR
PEARL GRAY AMS STANDARD COLOR #26622

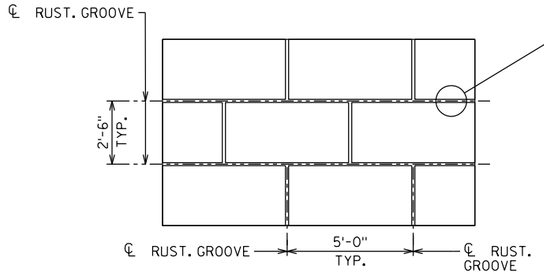
NOTES

RUSTICATION GROOVES ON PARAPETS SHALL BE INCLUDED IN "CONCRETE MASONRY BRIDGES" BID ITEM.

RECTANGULAR BLOCK FORMLINER ON FRONT FACES OF WINGS, ABUTMENTS, AND DIAPHRAGMS SHALL BE PAID FOR UNDER "ARCHITECTURAL SURFACE TREATMENT B-13-893" BID ITEM.

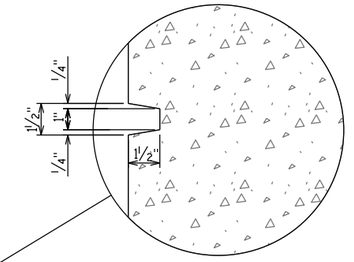
A PARAPET STAINING IS TYPICAL FOR FULL LENGTH OF BRIDGE INCLUDING LIGHT POLE BLISTERS.

ALL CONCRETE STAINING SHALL BE PAID FOR UNDER "CONCRETE STAINING B-13-893" BID ITEM.



RECTANGULAR BLOCK FORMLINER

(2'-6" X 5'-0" NOMINAL BLOCK SIZE)



TYPICAL RUSTICATION GROOVE DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. KHB

ABUTMENT & SUPERSTRUCTURE AESTHETIC DETAILS

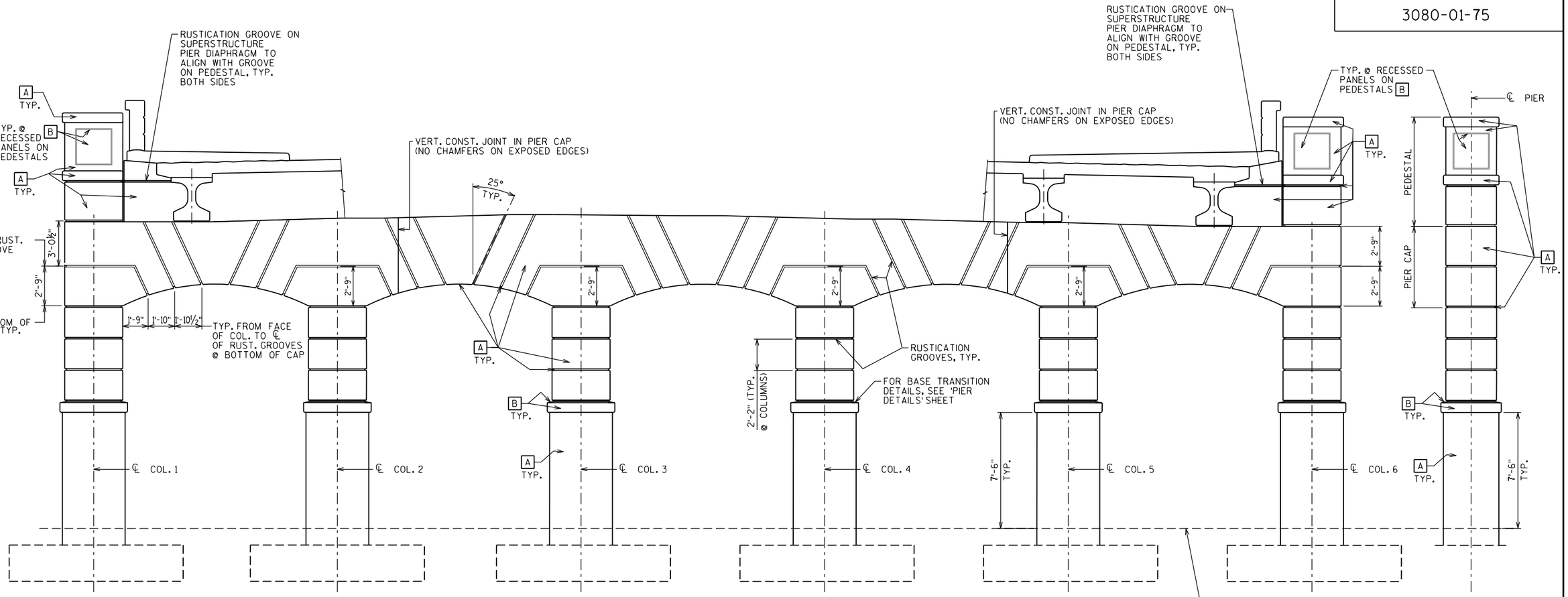
SHEET 26
947

8

8

STATE PROJECT NUMBER

3080-01-75

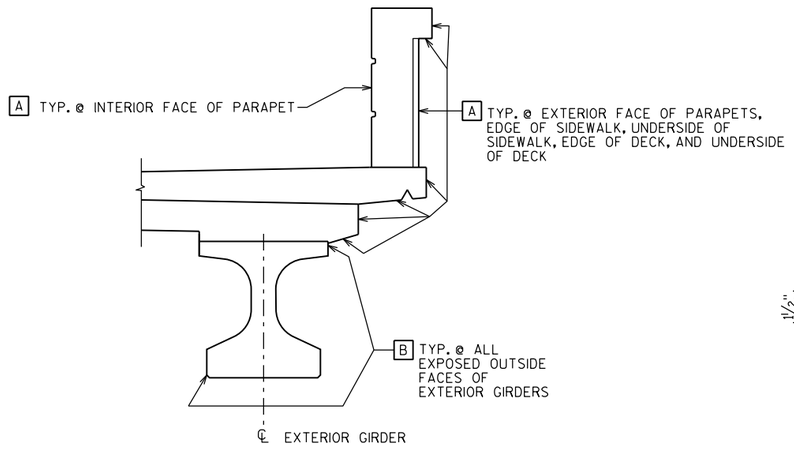


PIER ELEVATION

(LOOKING NORTH)

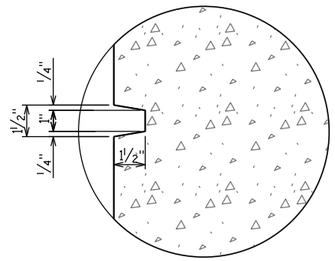
SIDE ELEVATION

(FOOTING NOT SHOWN)

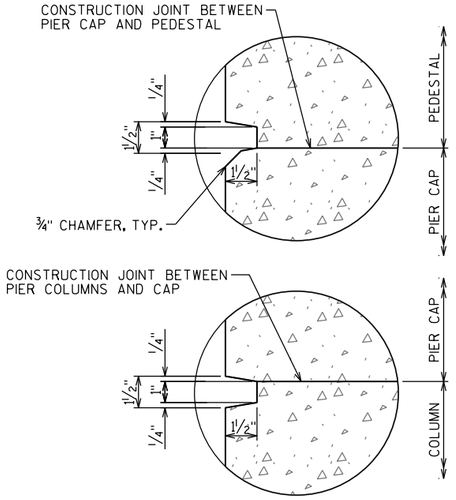


SUPERSTRUCTURE STAINING DETAILS

(TYP. EACH EXT. GIRDER)



TYPICAL RUSTICATION GROOVE DETAIL



RUSTICATION GROOVE DETAIL AT CONSTRUCTION JOINTS

NOTES

RUSTICATION GROOVES, PROJECTIONS, AND RECESSED PANELS ON PIER AND PEDESTALS SHALL BE INCLUDED IN "CONCRETE MASONRY BRIDGES" BID ITEM.

ALL CONCRETE STAINING SHALL BE PAID FOR UNDER "CONCRETE STAINING B-13-893" BID ITEM.

ALL EXPOSED PIER SURFACES TO BE STAINED

STAINING LEGEND

A BASE COLOR
PEARL GRAY AMS STANDARD COLOR #26622

B ACCENT COLOR
MEDIUM GRAY AMS STANDARD COLOR #36373

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. KHB

PIER & SUPERSTRUCTURE AESTHETIC DETAILS

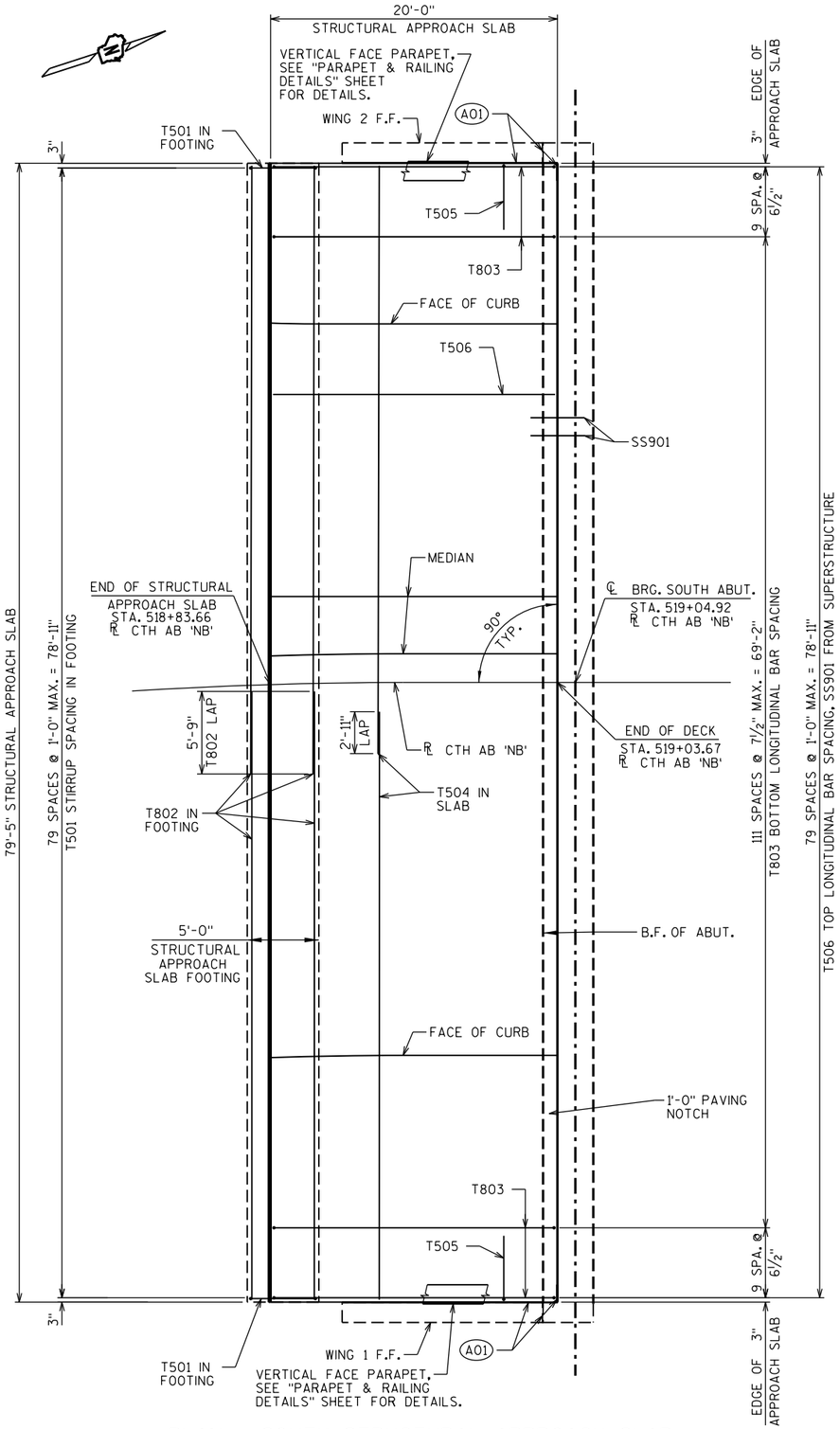
SHEET 27
948

8

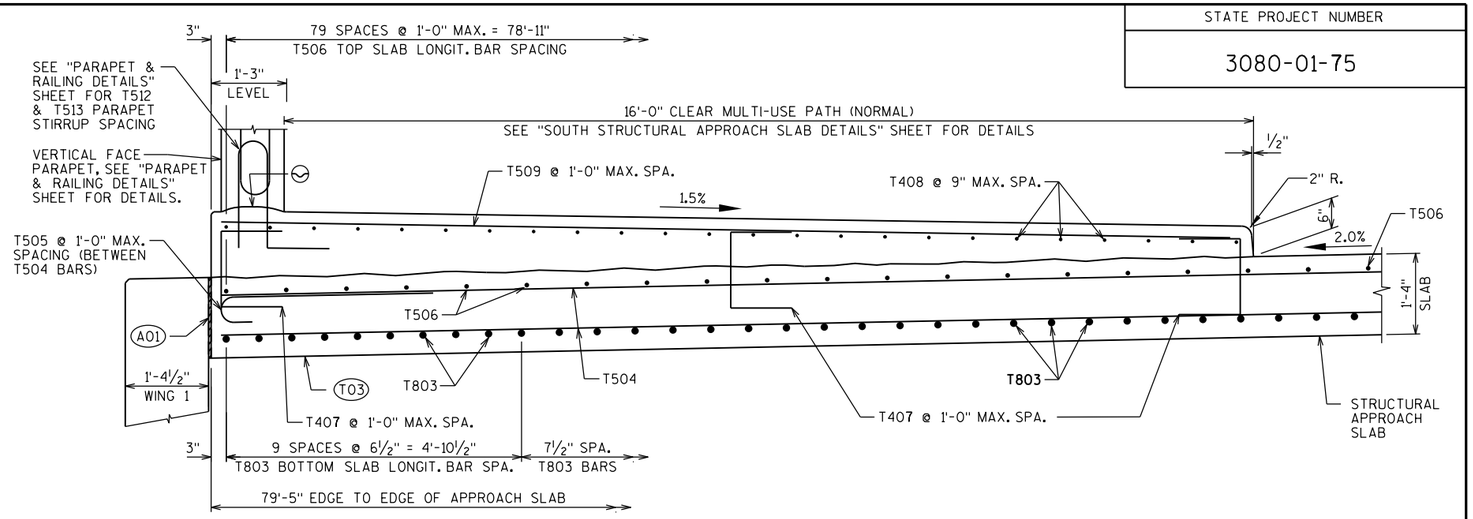
8

STATE PROJECT NUMBER

3080-01-75

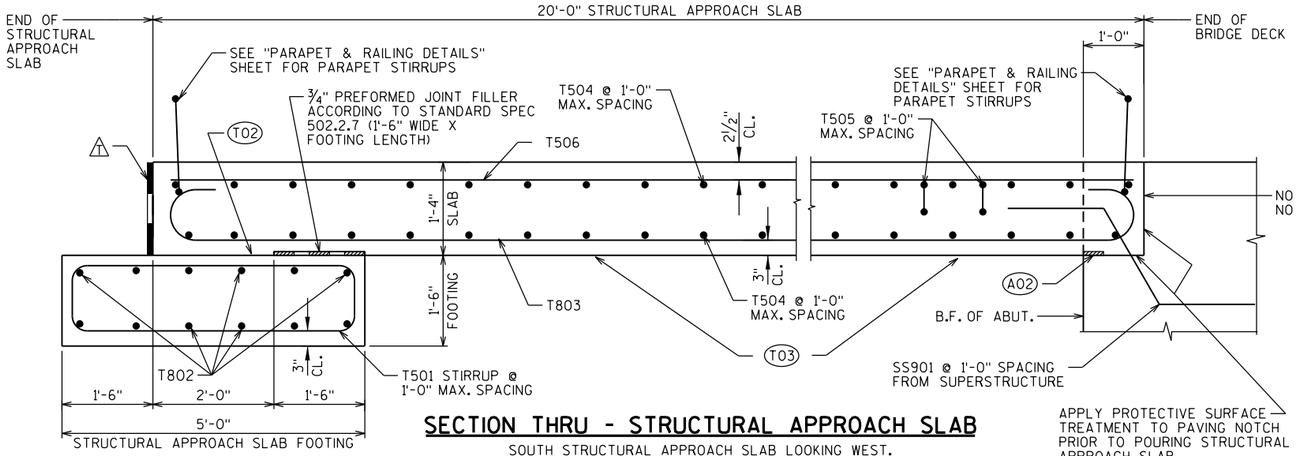


PLAN - SOUTH STRUCTURAL APPROACH SLAB



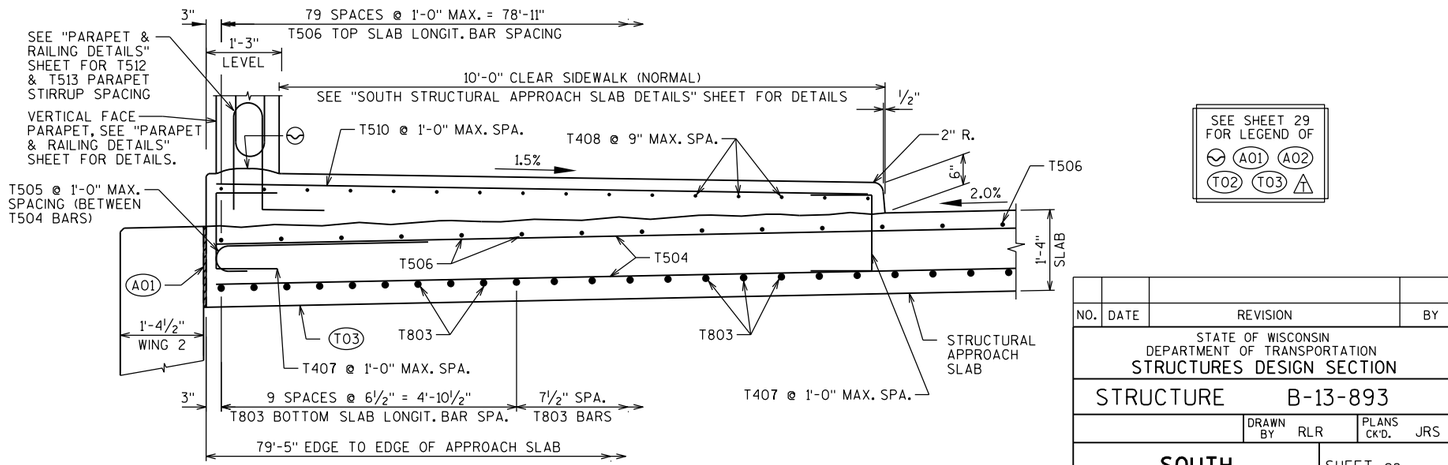
TYPICAL SECTION THRU EAST EDGE OF SOUTH STRUCTURAL APPROACH SLAB

LOOKING SOUTH



SECTION THRU - STRUCTURAL APPROACH SLAB

SOUTH STRUCTURAL APPROACH SLAB LOOKING WEST.
SEE SHEET "PARAPET & RAILING DETAILS" FOR PARAPET AND BAR DETAILS.



TYPICAL SECTION THRU WEST EDGE OF SOUTH STRUCTURAL APPROACH SLAB

LOOKING NORTH

SEE SHEET 29 FOR LEGEND OF
A01 A02 T02 T03 ⚠

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. JRS

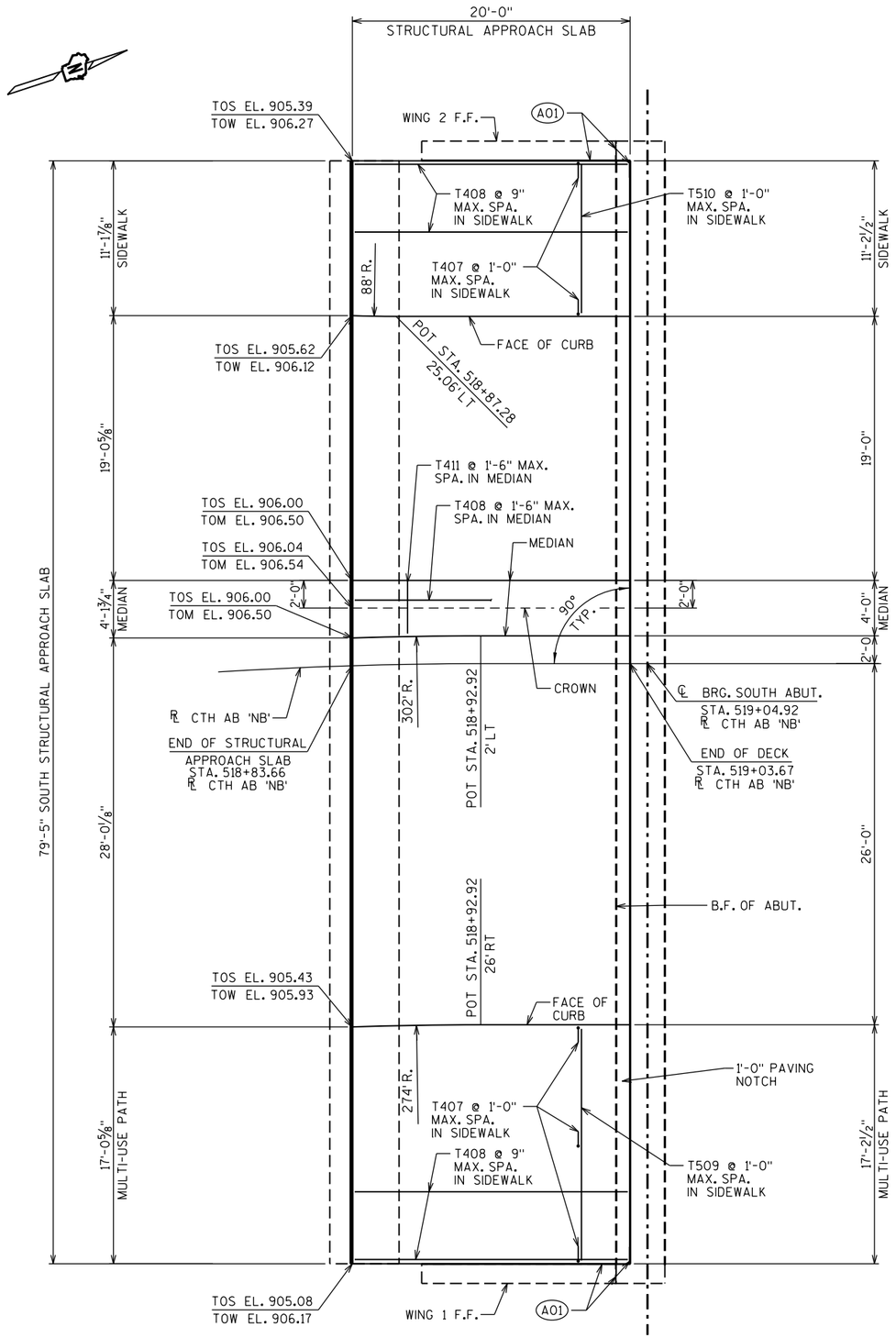
SOUTH STRUCTURAL APPROACH SLAB

SHEET 28
949

8

8

STATE PROJECT NUMBER
3080-01-75



SOUTH STRUCTURAL APPROACH SLAB & SIDEWALK LAYOUT PLAN

LEGEND

POT - POINT OF TANGENCY
TOM - TOP OF MEDIAN
TOS - TOP OF SLAB
TOW - TOP OF SIDEWALK

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHYLENE SHEETS OVER ENTIRE TOP OF FOOTING.

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHYLENE SHEETS OVER ENTIRE TOP OF SUBGRADE BENEATH SLAB. POLYETHYLENE SHEETS SHALL BE INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES".

⚠ 1½" EXPANSION FILLER.

(A01) ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZONTAL & VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP & HOLD ⅛" BELOW SURFACE OF CONCRETE).

(A02) 4" x ¾" PREFORMED JOINT FILLER ACCORDING TO STANDARD SPEC 502.2.7 EXTEND FULL LENGTH OF PAVING NOTCH.

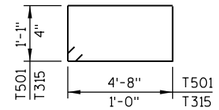
CONSTRUCTION JOINT - STRIKE OFF AS SHOWN. FOR SLAB POUR MATCH BRIDGE X-SLOPE.

BILL OF BARS
SOUTH STRUCTURAL APPROACH SLAB COATED 17,350 LBS.

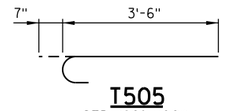
MARK	NUMBER REQUIRED	LENGTH	BENT	LOCATION
T501	80	12'-2"	X	SOUTH STRUCT. APPROACH SLAB - FOOTING - STIRRUP - VERT.
T802	24	42'-5"		SOUTH STRUCT. APPROACH SLAB - FOOTING - TRANS.
T803	130	21'-5"	X	SOUTH STRUCT. APPROACH SLAB - BOTTOM - LONGIT.
T504	42	41'-0"		SOUTH STRUCT. APPROACH SLAB - TOP & BOTTOM - TRANS.
T505	40	4'-1"	X	SOUTH STRUCT. APPROACH SLAB - TOP @ EDGES - TRANS.
T506	80	19'-7"		SOUTH STRUCT. APPROACH SLAB - TOP - LONGIT.
T407	105	3'-1"	X	SOUTH STRUCT. APPROACH SLAB & SIDEWALK - VERT.
T408	44	19'-7"		SOUTH STRUCT. APPROACH SIDEWALK & MEDIAN - LONGIT.
T509	21	16'-8"		SOUTH STRUCT. APPROACH SIDEWALK @ WING 1 - TRANS.
T510	21	10'-9"		SOUTH STRUCT. APPROACH SIDEWALK @ WING 2 - TRANS.
T411	15	3'-6"		SOUTH STRUCT. APPROACH MEDIAN - TRANS.
T512	58	4'-4"	X	SOUTH STRUCT. APPROACH - PARAPET - STIRRUP - VERT.
T513	58	6'-5"	X	SOUTH STRUCT. APPROACH - PARAPET - STIRRUP - VERT.
T514	20	19'-7"		SOUTH STRUCT. APPROACH - PARAPET - LONGIT.
T315	58	3'-1"	X	SOUTH STRUCT. APPROACH - PARAPET TOP - STIRRUP - VERT.
T316	4	19'-7"		SOUTH STRUCT. APPROACH - PARAPET TOP - LONGIT.

EPOXY COAT ALL STRUCTURAL APPROACH SLAB AND SIDEWALK BAR STEEL.

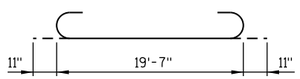
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



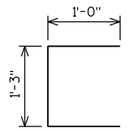
T501, T315



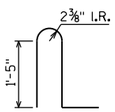
T505
STD. 180° HOOK



T803
STD. 180° HOOKS

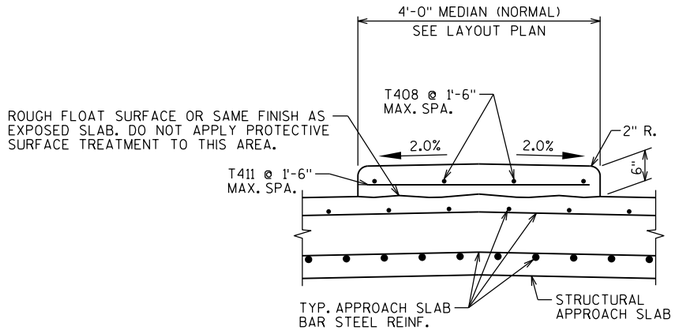


T407



T512

T513



TYPICAL SECTION THRU MEDIAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. JRS

SOUTH STRUCTURAL APPROACH SLAB DETAILS

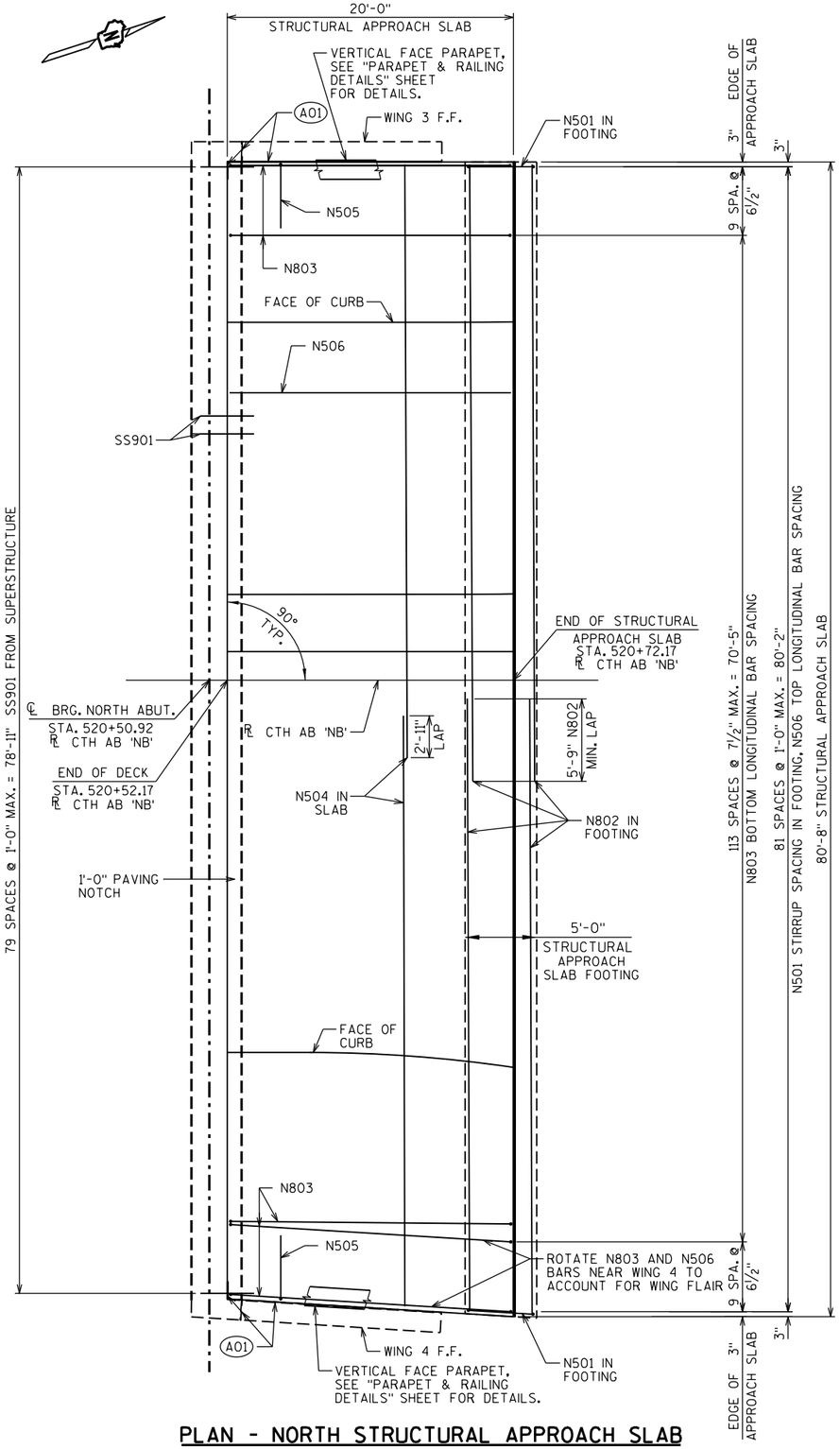
SHEET 29
950

8

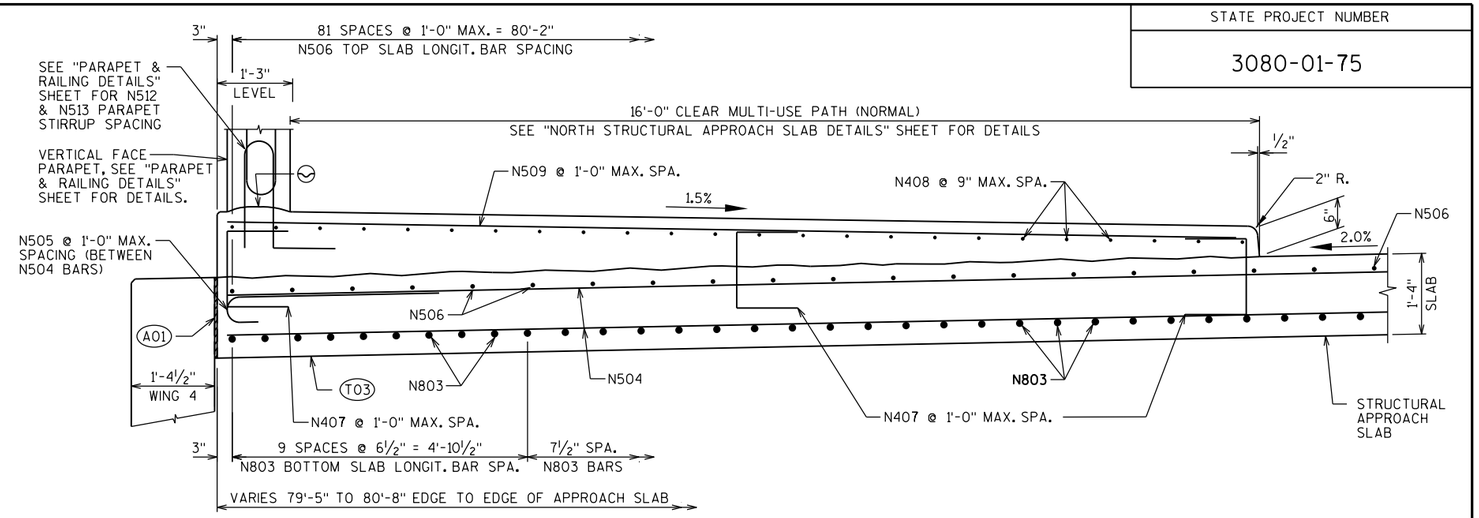
8

STATE PROJECT NUMBER

3080-01-75

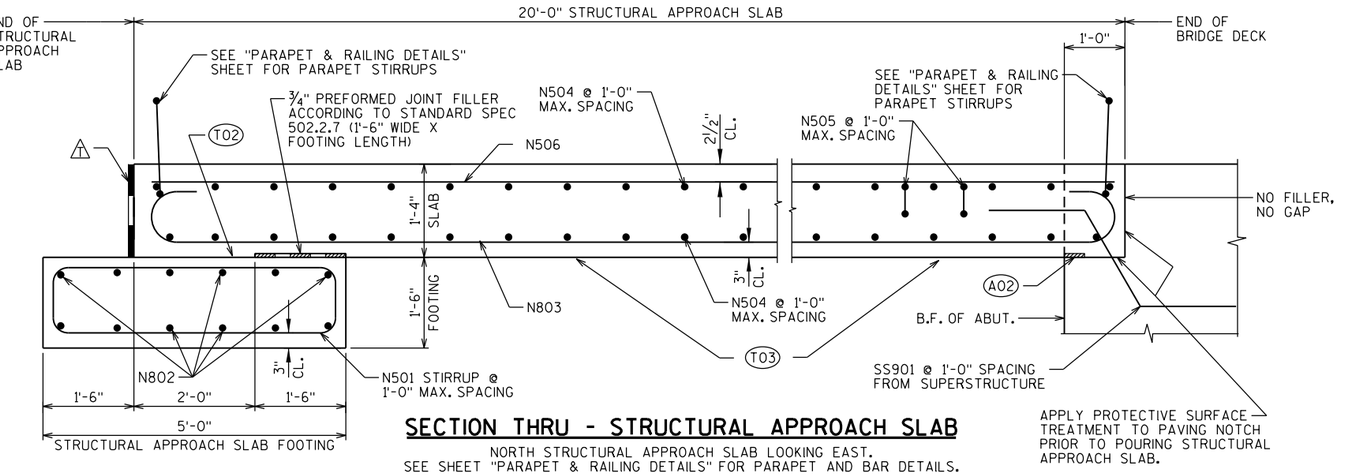


PLAN - NORTH STRUCTURAL APPROACH SLAB



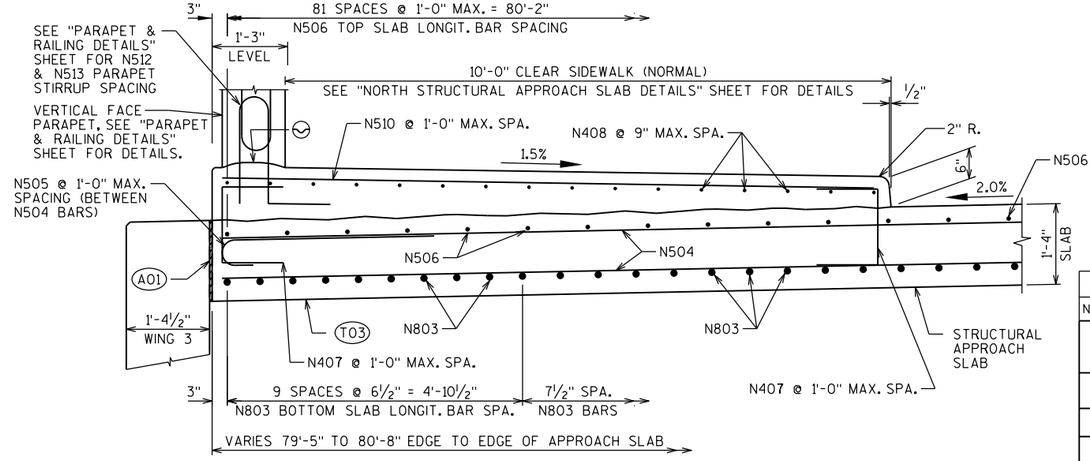
TYPICAL SECTION THRU EAST EDGE OF NORTH STRUCTURAL APPROACH SLAB

LOOKING SOUTH



SECTION THRU - STRUCTURAL APPROACH SLAB

NORTH STRUCTURAL APPROACH SLAB LOOKING EAST.
SEE SHEET "PARAPET & RAILING DETAILS" FOR PARAPET AND BAR DETAILS.



TYPICAL SECTION THRU WEST EDGE OF NORTH STRUCTURAL APPROACH SLAB

LOOKING NORTH

SEE SHEET 31 FOR LEGEND OF
A01 A02 T02 T03 1

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. JRS

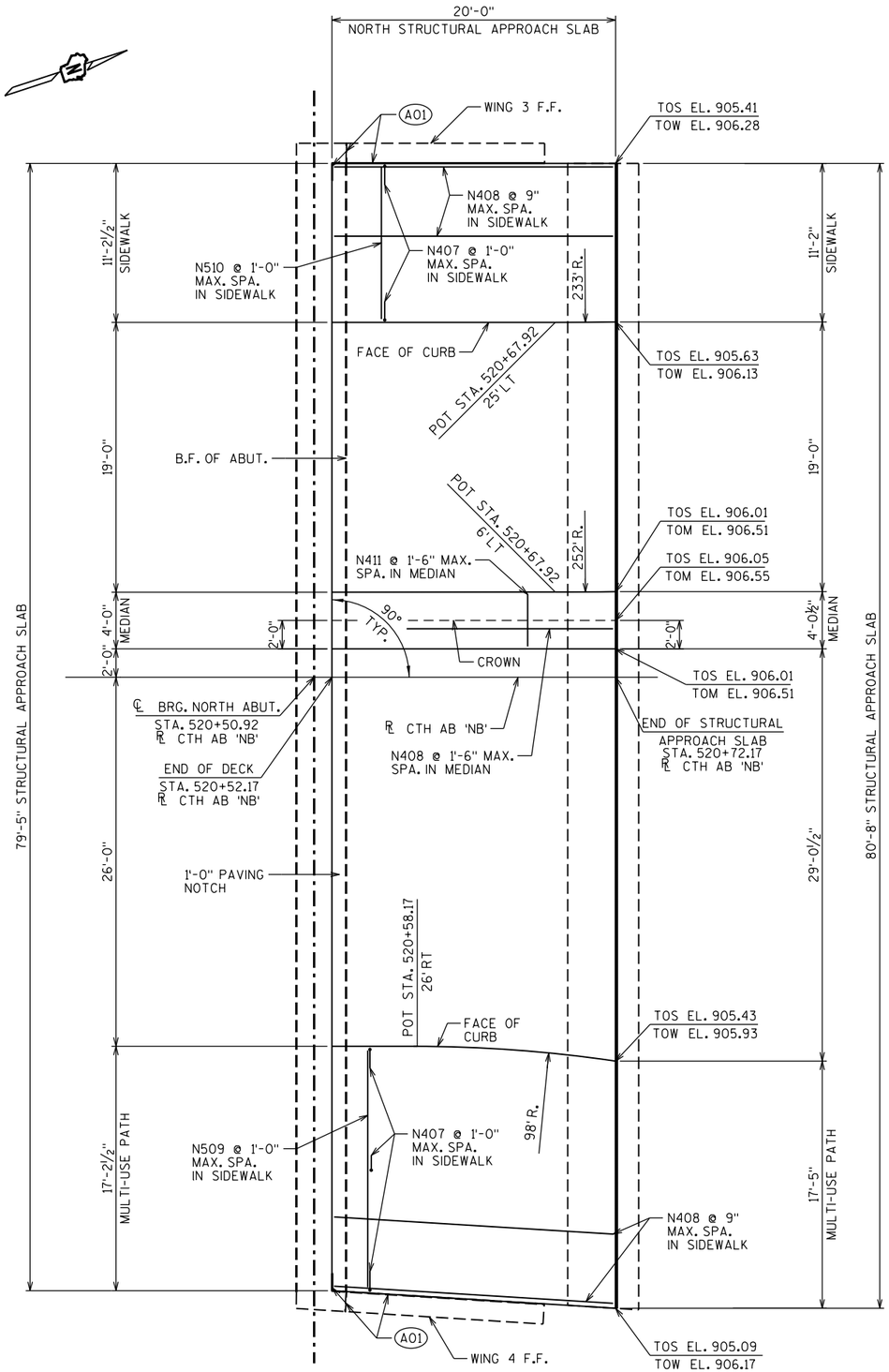
NORTH STRUCTURAL APPROACH SLAB

SHEET 30
951

8

8

STATE PROJECT NUMBER
3080-01-75



NORTH STRUCTURAL APPROACH SLAB & SIDEWALK LAYOUT PLAN

LEGEND

POT - POINT OF TANGENCY
TOM - TOP OF MEDIAN
TOS - TOP OF SLAB
TOW - TOP OF SIDEWALK

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHYLENE SHEETS OVER ENTIRE TOP OF FOOTING.

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHYLENE SHEETS OVER ENTIRE TOP OF SUBGRADE BENEATH SLAB. POLYETHYLENE SHEETS SHALL BE INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES".

⚠ 1½" EXPANSION FILLER.

(A01) ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZONTAL & VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP & HOLD ⅛" BELOW SURFACE OF CONCRETE).

(A02) 4" x ¾" PREFORMED JOINT FILLER ACCORDING TO STANDARD SPEC 502.2.7 EXTEND FULL LENGTH OF PAVING NOTCH.

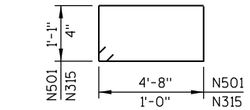
CONSTRUCTION JOINT - STRIKE OFF AS SHOWN. FOR SLAB POUR MATCH BRIDGE X-SLOPE.

BILL OF BARS
NORTH STRUCTURAL APPROACH SLAB COATED 17,635 LBS.

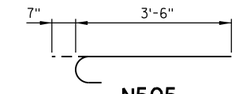
MARK	NUMBER REQUIRED	LENGTH	BENT	LOCATION
N501	82	12'-2"	X	NORTH STRUCT. APPROACH SLAB - FOOTING - STIRRUP - VERT.
N802	24	43'-0"		NORTH STRUCT. APPROACH SLAB - FOOTING - TRANS.
N803	132	21'-5"	X	NORTH STRUCT. APPROACH SLAB - BOTTOM - LONGIT.
N504	42	41'-8"		NORTH STRUCT. APPROACH SLAB - TOP & BOTTOM - TRANS.
N505	40	4'-1"	X	NORTH STRUCT. APPROACH SLAB - TOP @ EDGES - TRANS.
N506	82	19'-7"		NORTH STRUCT. APPROACH SLAB - TOP - LONGIT.
N407	105	3'-7"	X	NORTH STRUCT. APPROACH SLAB & SIDEWALK - VERT.
N408	44	19'-7"		NORTH STRUCT. APPROACH SIDEWALK & MEDIAN - LONGIT.
N509	21	16'-9"		NORTH STRUCT. APPROACH SIDEWALK @ WING 4 - TRANS.
N510	21	10'-9"		NORTH STRUCT. APPROACH SIDEWALK @ WING 3 - TRANS.
N411	15	3'-6"		NORTH STRUCT. APPROACH MEDIAN - TRANS.
N512	58	4'-4"	X	NORTH STRUCT. APPROACH - PARAPET - STIRRUP - VERT.
N513	58	6'-5"	X	NORTH STRUCT. APPROACH - PARAPET - STIRRUP - VERT.
N514	20	19'-7"		NORTH STRUCT. APPROACH - PARAPET - LONGIT.
N315	58	3'-1"	X	NORTH STRUCT. APPROACH - PARAPET TOP - STIRRUP - VERT.
N316	4	19'-7"		NORTH STRUCT. APPROACH - PARAPET TOP - LONGIT.

EPOXY COAT ALL STRUCTURAL APPROACH SLAB AND SIDEWALK BAR STEEL.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

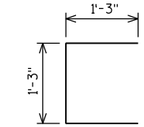


N501, N315

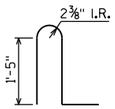


N505
STD. 180° HOOK

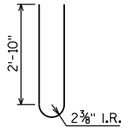
N803
STD. 180° HOOKS



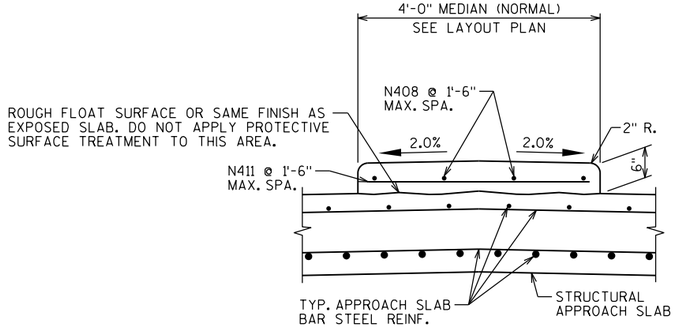
N407



N512



N513



TYPICAL SECTION THRU MEDIAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. JRS

NORTH STRUCTURAL APPROACH SLAB DETAILS

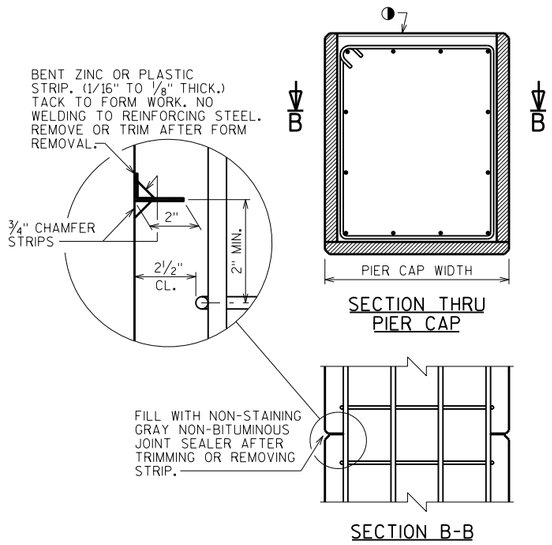
SHEET 31
952

8

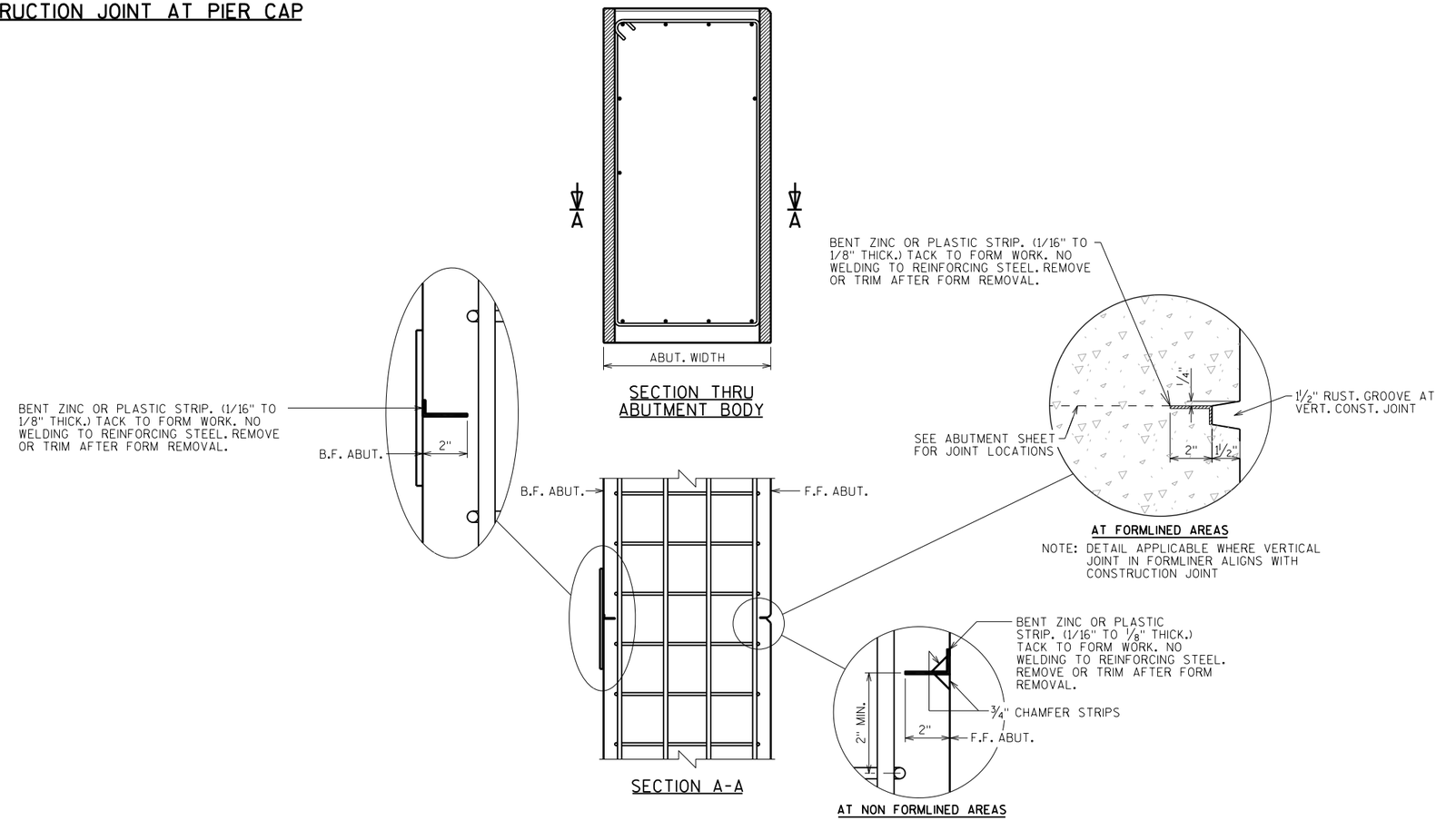
8

STATE PROJECT NUMBER

3080-01-75



ALTERNATE CONSTRUCTION JOINT AT PIER CAP



ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

SAW CUTTING JOINT IS NOT ALLOWED.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY 1/2" DEEP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY DDS | PLANS CK'D. JRS

ALTERNATE CONSTRUCTION JOINT

SHEET 32

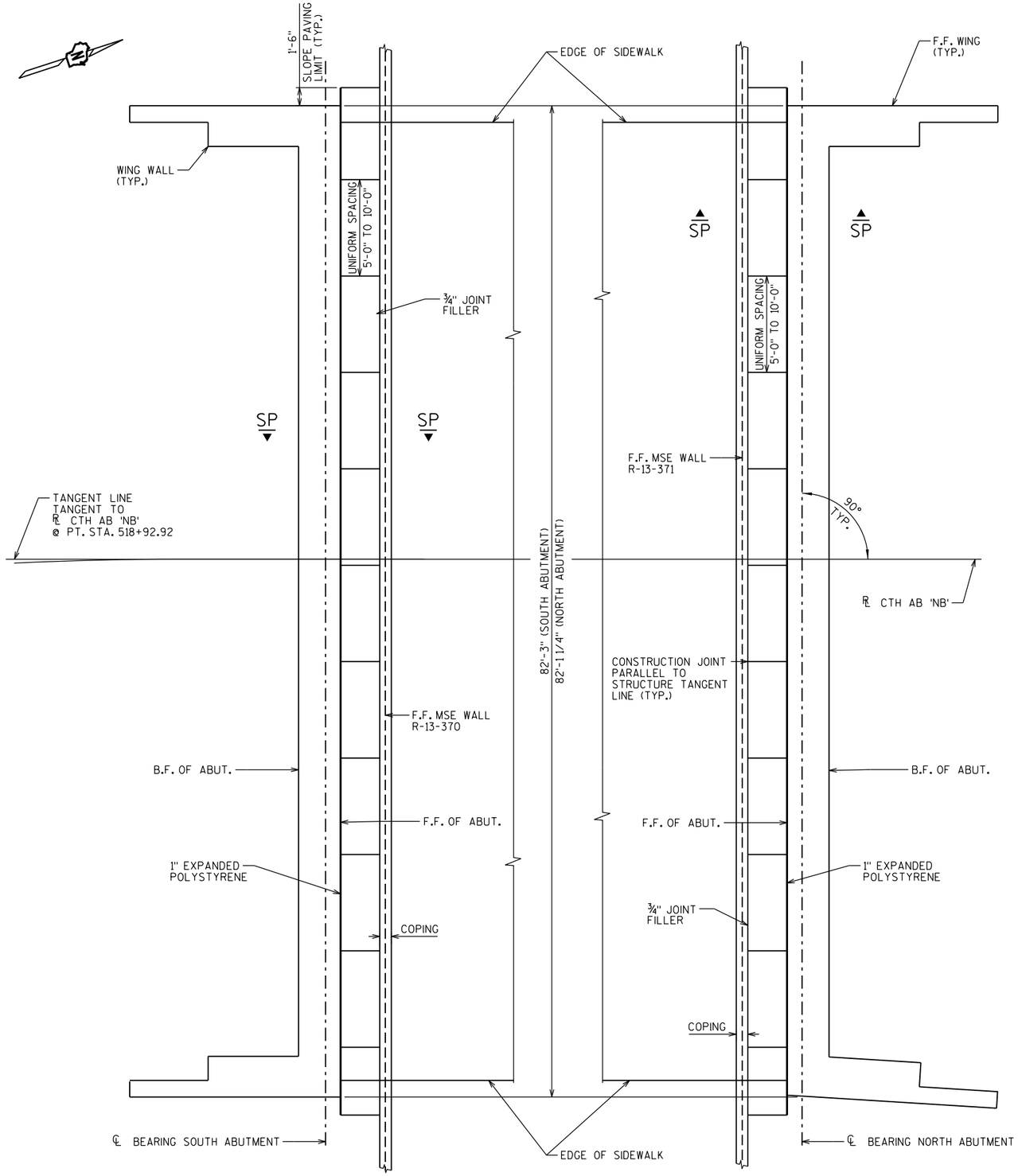
953

8

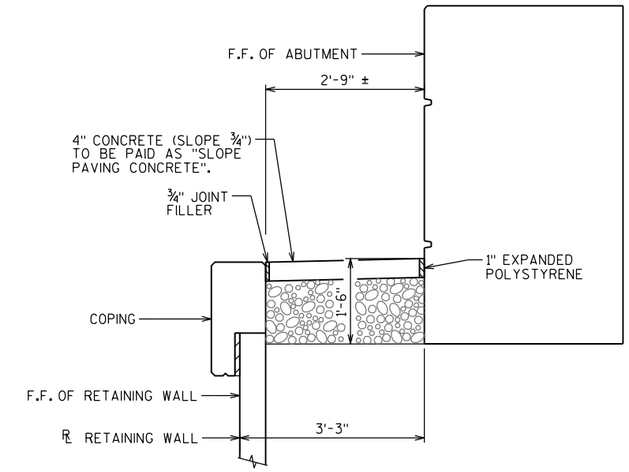
8

SCALE = 1.00

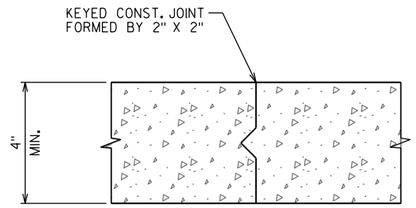
STATE PROJECT NUMBER
3080-01-75



PLAN



SECTION SP-SP



CONSTRUCTION JOINT

NOTE:

DETAILS OF CONSTRUCTION NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-893

DRAWN BY RLR | PLANS CK'D. KHB

SLOPE PAVING (CONCRETE CAST-IN PLACE)

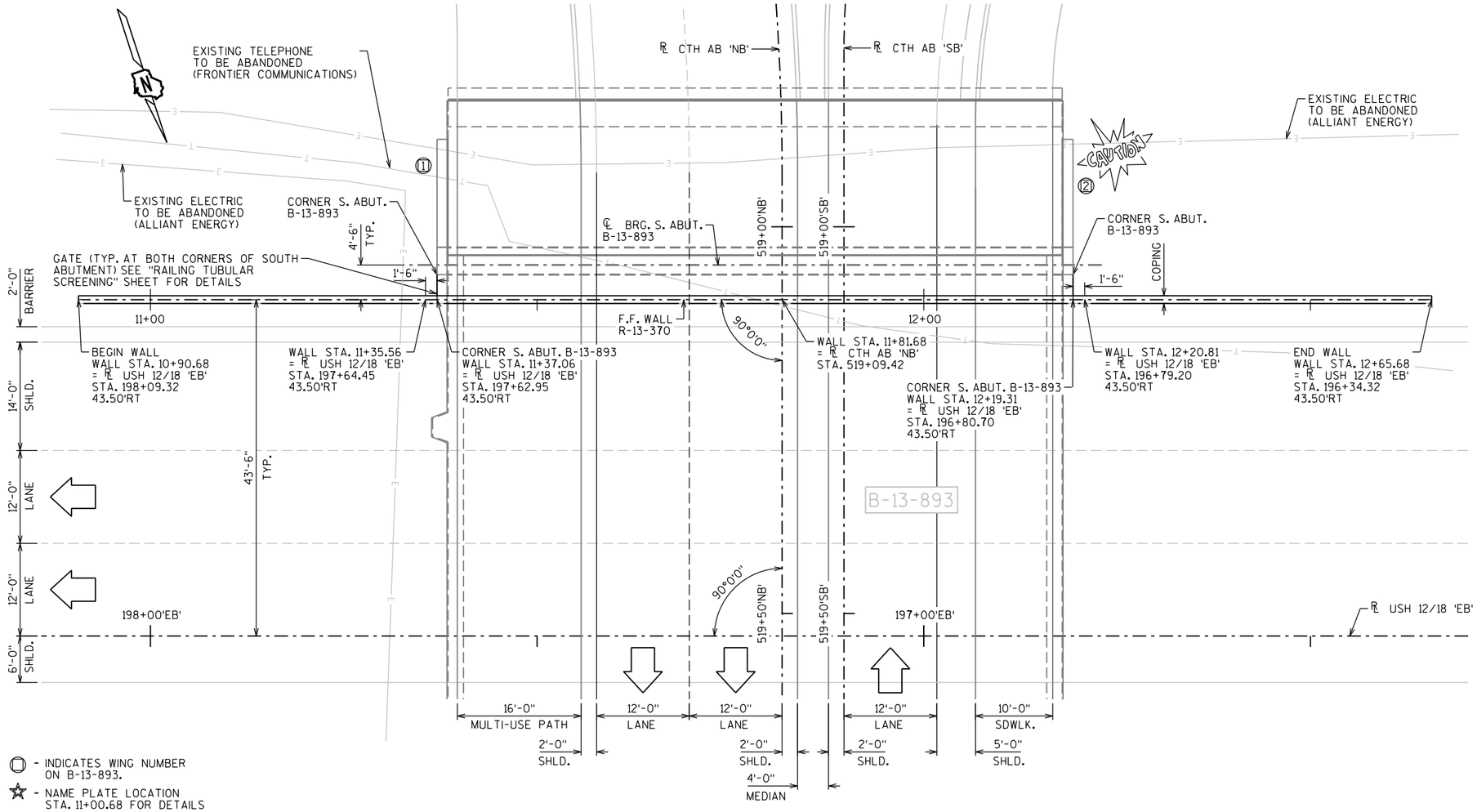
SHEET 33
954

8

8

STATE PROJECT NUMBER

3080-01-75

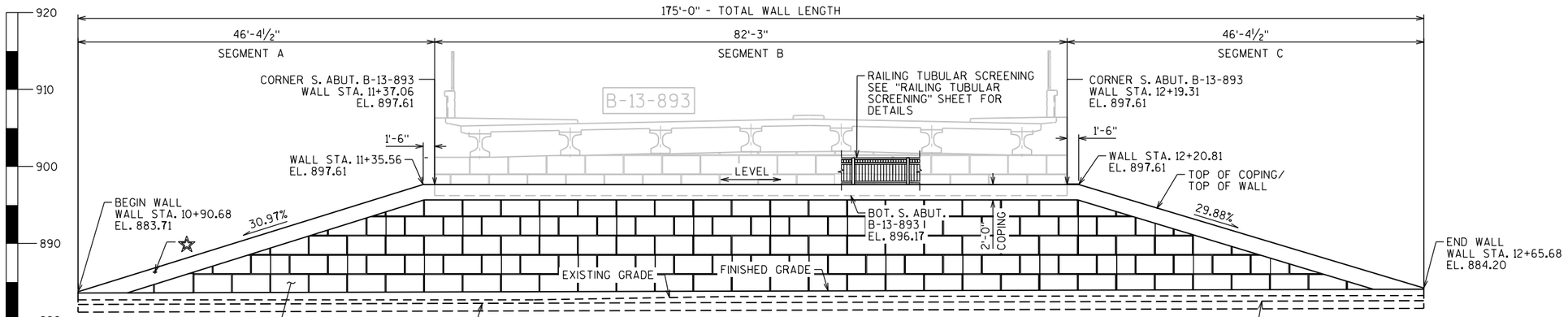


⬡ - INDICATES WING NUMBER ON B-13-893.

☆ - NAME PLATE LOCATION STA. 11+00.68 FOR DETAILS SEE "TYPICAL SECTIONS & WALL DETAILS" SHEET.

PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING SOUTH AT FRONT FACE OF WALL
DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL
ELEVATIONS ARE GIVEN AT TOP OF WALL

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-13-370".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFIRM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET AND IN THE WALL GEOMETRY TABLE PROVIDED ON "QUANTITIES, WALL DATA & NOTES" SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN THE MSE WALL IN FRONT OF THE ABUTMENT BODY TO RESIST THE FORCES FROM ALL HORIZONTAL EARTH PRESSURE ACTING ON THE BACK OF THE ABUTMENT BELOW THE BEAM SEAT AND A LIVE LOAD VERTICAL SURCHARGE OF 240 PSF. DESIGN THE MSE WALL SEGMENT A AND SEGMENT C FOR A LIVE LOAD SURCHARGE OF 100 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

MATERIAL PROPERTIES:

CONCRETE MASONRY, CONCRETE COPING ——— f'c = 3,500 P.S.I.
PRECAST CONCRETE WALL PANELS ——— f'c = 4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 ——— fy = 60,000 P.S.I.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH

TRAFFIC VOLUME

CTH AB	USH 12/18
ADT = 9,400 (2043)	ADT = 25,300 (2043)
R.D.S. = 30 M.P.H.	R.D.S. = 60 M.P.H.

LIST OF DRAWINGS

1. MSE PRECAST CONCRETE PANEL WALL
2. QUANTITIES, WALL DATA & NOTES
3. TYPICAL SECTIONS & WALL DETAILS
4. WALL & AESTHETIC DETAILS
5. RAILING TUBULAR SCREENING
6. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:

JOSH SWENO (608) 355-8852
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMB 03/14/22
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-13-370

MSE WALL ALONG S. ABUT. B-13-893 & USH 12/18

COUNTY: DANE — TOWN: COTTAGE GROVE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JFM	JRS	SCL/CAR	JRS

MSE PRECAST CONCRETE PANEL WALL

SHEET 1 OF 6
955

I.D. 3080-01-05B DATE: OCT 2021

SCALE = 8.00

STATE PROJECT NUMBER

3080-01-75

GEOMETRY TABLE

	WALL STATION	℄ USH 12/18 'EB' STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
SEGMENT A	10+90.68	198+09.32	43.50' RT	883.71	883.71	882.67
	11+00.00	198+00.00	43.50' RT	886.60	883.73	882.66
	11+25.00	197+75.00	43.50' RT	894.34	883.79	882.59
	11+35.56	197+64.45	43.50' RT	897.61	883.82	882.61
	11+37.06	197+62.95	43.50' RT	897.61	883.82	882.61
SEGMENT B	11+37.06	197+62.95	43.50' RT	897.61	883.82	882.61
	11+50.00	197+50.00	43.50' RT	897.61	883.86	882.65
	11+75.00	197+25.00	43.50' RT	897.61	883.99	883.09
	12+00.00	197+00.00	43.50' RT	897.61	884.05	883.12
	12+19.31	196+80.70	43.50' RT	897.61	884.08	883.18
SEGMENT C	12+19.31	196+80.70	43.50' RT	897.61	884.08	883.18
	12+20.81	196+79.20	43.50' RT	897.61	884.08	883.18
	12+25.00	196+75.00	43.50' RT	896.36	884.09	883.20
	12+50.00	196+50.00	43.50' RT	888.89	884.16	883.19
	12+65.68	196+34.32	43.50' RT	884.20	884.20	883.22

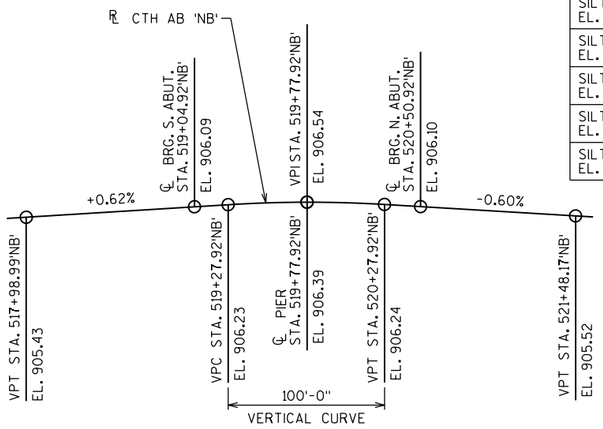
SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND THE THE REINFORCING ZONE	30	0	120
BORING SB-370-1 - STA. 197+44.05 'EB' - 53.84' RT			
FILL TOPSOIL - LEAN CLAY EL. 881.6 TO EL. 879.9	0	500	120
LEAN CLAY EL. 879.9 TO EL. 876.1	0	1,600	125
POORLY GRADED SAND WITH CLAY EL. 876.1 TO EL. 873.6	31	0	120
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 873.6 TO EL. 854.6	30	0	135
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 854.6 TO EL. 851.6	39	0	145
BORING SB-893-3 - STA. 196+90.75 'EB' - 50.45' RT			
FILL TOPSOIL-LEAN CLAY EL. 882.2 TO EL. 880.0	0	500	120
LEAN CLAY EL. 880.0 TO EL. 876.7	0	2,000	125
CLAYEY SAND EL. 876.7 TO EL. 874.2	29	0	130
SILTY SAND EL. 874.2 TO EL. 870.2	33	0	125
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 870.2 TO EL. 865.2	30	0	135
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 865.2 TO EL. 860.2	36	0	140
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 860.2 TO EL. 855.2	32	0	140
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 855.2 TO EL. 845.2	29	0	135
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 845.2 TO EL. 841.2	35	0	145
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 841.2 TO EL. 835.2	31	0	140

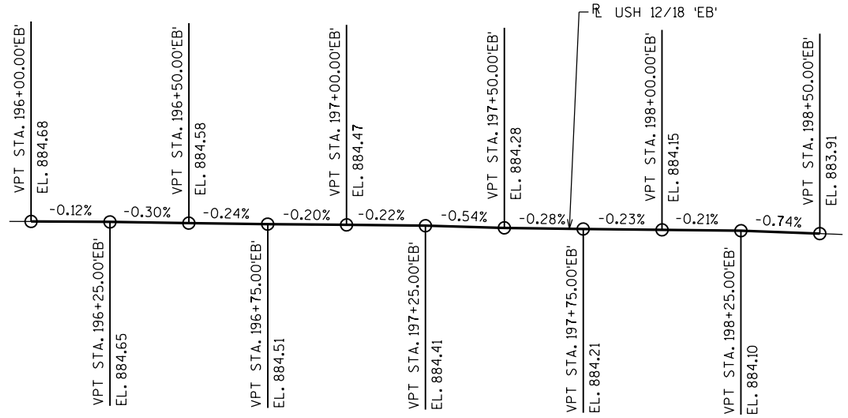
WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS		
WALL HEIGHT (FEET)	15.4	15.4
EXPOSED WALL HEIGHT (FEET)	13.9	13.9
MINIMUM LENGTH OF REINFORCEMENT (FEET) [2]	11	19
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	0.7	1.2
BORING LOCATION USED [1]	SB-370-1 & SB-893-3	SB-370-1 & SB-893-3
APPROXIMATE WALL STATION	11+36 (ADJ. TO ABUT.)	11+38 (ABUT.)
BACK SLOPE ABOVE WALL	20°	FLAT
CAPACITY TO DEMAND RATIO (CDR)		
SLIDING (CDR > 1.0)	1.0	1.0
ECCENTRICITY (CDR > 1.0)	1.3	1.6
OVERALL STABILITY (CDR > 1.0) [3]	1.8	-
BEARING RESISTANCE (CDR > 1.0)	1.3	1.8
FACTORED BEARING RESISTANCE (PSF)	6,600	10,500

NOTES:
1. IF MORE THAN ONE BORING IS LISTED, THEN A COMPOSITE SOIL PROFILE WAS USED IN THE ANALYSES.
2. THE REINFORCEMENT LENGTH IS THE MINIMUM REQUIRED LENGTH BEHIND THE MSE FACING WHICH IS EQUAL TO THE MAXIMUM OF 8 FEET.
3. GLOBAL STABILITY IS ONLY EVALUATED AT THE CRITICAL WALL LOCATION.



PROFILE GRADE LINE CTH AB 'NB'



PROFILE GRADE LINE USH 12/18 'EB'

TOTAL ESTIMATED QUANTITIES

✳ CATEGORY 0020 BID ITEMS. ALL OTHER BID ITEMS ARE CATEGORY 0050.

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
✳	513.4091	RAILING TUBULAR SCREENING R-13-370	LF	185
✳	517.1010.S.02	CONCRETE STAINING R-13-370	SF	2,222
✳	517.1050.S.02	ARCHITECTURAL SURFACE TREATMENT R-13-370	SF	1,595
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	195
	SPV.0165.01	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-13-370	SF	2,041
		NON-BID ITEMS		
		NON-BITUMINOUS JOINT SEALER	SIZE	¾"
		PREFORMED FILLER	SIZE	¾"
		EXPANDED POLYSTYRENE	SIZE	1"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD 1/8" BELOW THE SURFACE OF CONCRETE). THE COLOR OF THE NON-STAINING NON-BITUMINOUS JOINT SEALER SHALL MATCH THE COLORS OF THE CONCRETE STAINING.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-13-370.

THE EXISTING GROUND LINE IS THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-13-370" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

THE QUANTITY OF CONCRETE MASONRY AND REINFORCING STEEL FOR THE CAST IN PLACE COPING IS INCIDENTAL TO THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-13-370".

COORDINATE THE CONSTRUCTION OF RETAINING WALL R-13-370 WITH THE SOUTH ABUTMENT OF BRIDGE B-13-893.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-370

DRAWN BY SCL/CAR | PLANS CK'D. JRS

QUANTITIES, WALL DATA & NOTES

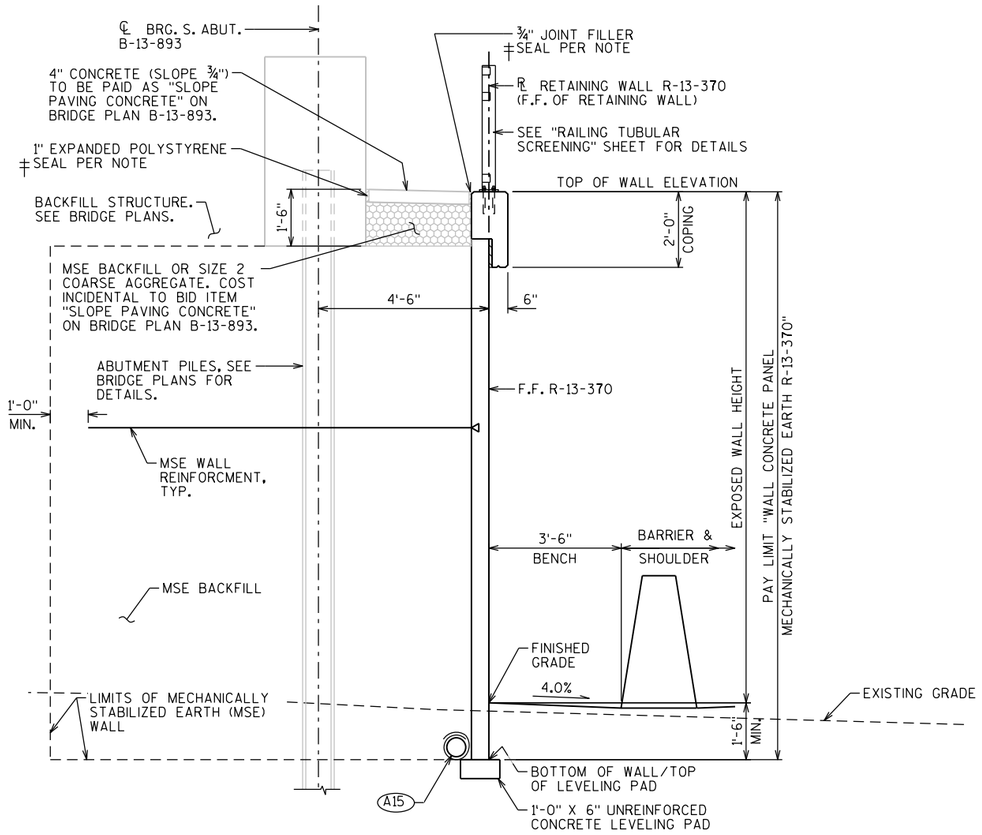
SHEET 2
956

8

8

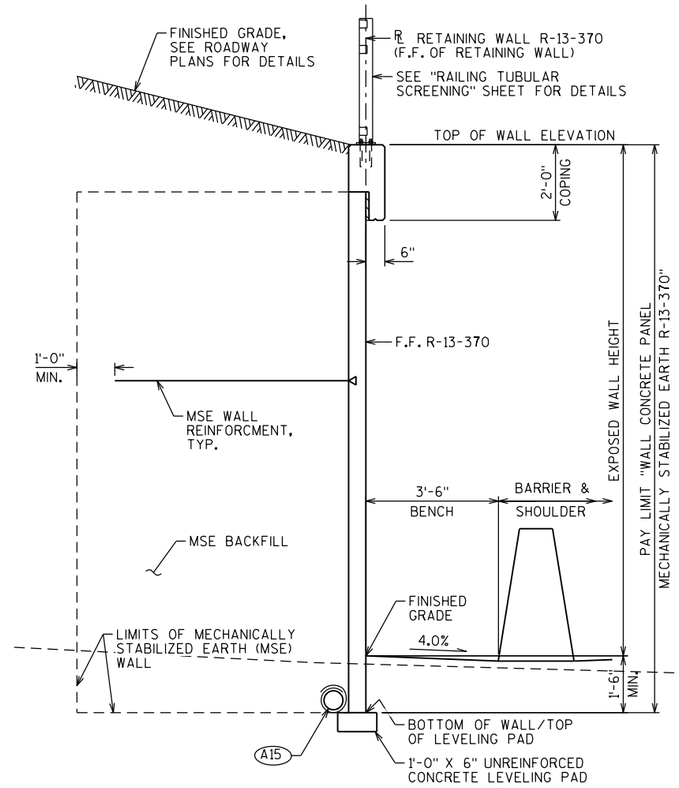
STATE PROJECT NUMBER

3080-01-75



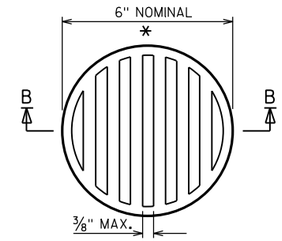
TYPICAL SECTION AT ABUTMENT - LOOKING WEST

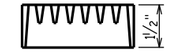
SEGMENT B: WALL STA. 11+37.06 TO 12+20.81



TYPICAL SECTION - LOOKING WEST

SEGMENT A: WALL STA. 10+90.68 TO 11+37.06
SEGMENT C: WALL STA. 12+20.81 TO 12+65.68





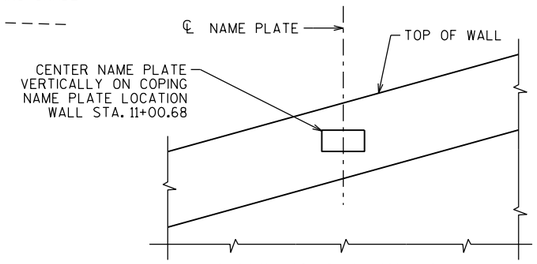
SECTION B-B

RODENT SHIELD DETAIL

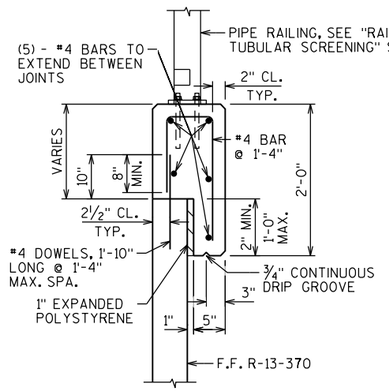
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

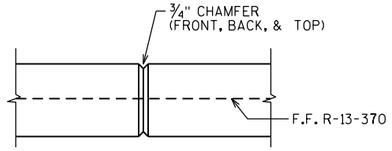
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



NAME PLATE DETAIL

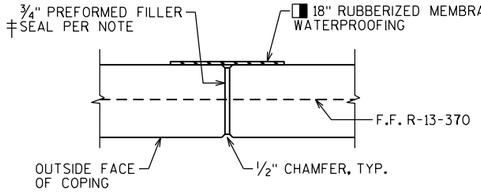


CAST-IN-PLACE CONCRETE COPING DETAIL



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'



COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS AND IS INCIDENTAL TO "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-13-370".

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD 1/8" BELOW THE SURFACE OF CONCRETE). THE COLOR OF THE NON-STAINING NON-BITUMINOUS JOINT SEALER SHALL MATCH THE COLORS OF THE CONCRETE STAINING.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-370

DRAWN BY SCL/CAR	PLANS CK'D. JRS

TYPICAL SECTIONS & WALL DETAILS

SHEET 3
957

8

8

STATE PROJECT NUMBER

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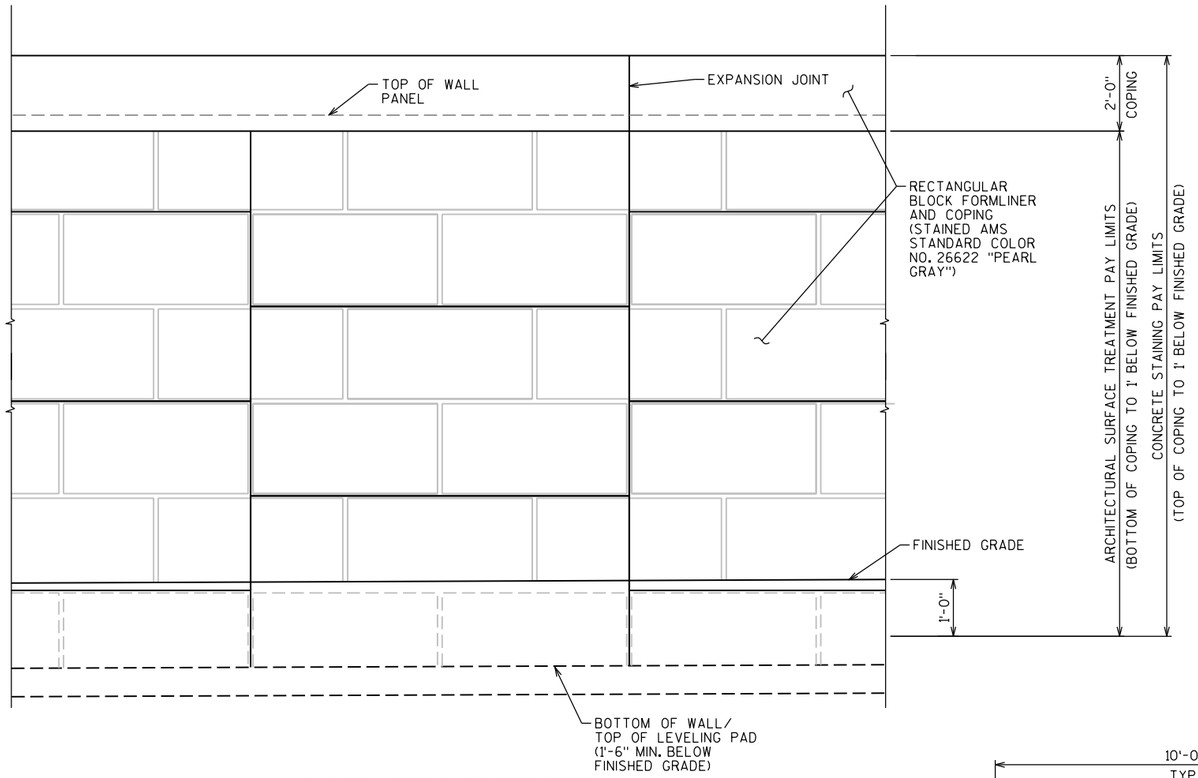
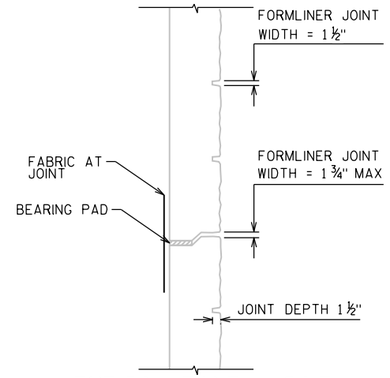


PARTIAL WALL ELEVATION



TYPICAL PANEL JOINT CROSS SECTION

NOTES

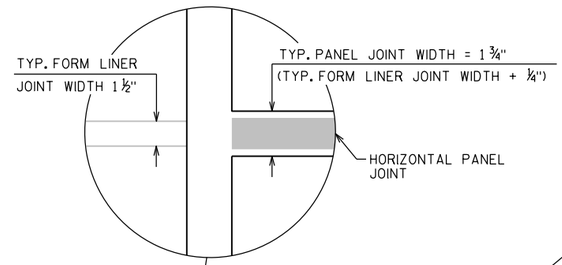
PROVIDE AESTHETIC DETAILS SHOWN IN THIS PLAN AND AS NOTED IN THE SPECIAL PROVISIONS.

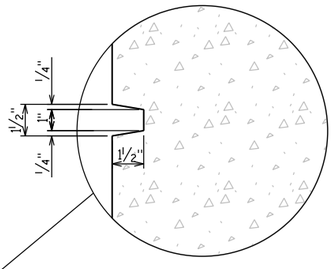
ALL STONE EDGES ADJACENT TO VERTICAL PANEL JOINTS SHALL BE FLUSH CUT.

AVERAGE RELIEF IS 1 ½" FOR THE FACE OF THE BLOCKS WITH A MAXIMUM RELIEF OF 1 ¾" FOR THE JOINTS.

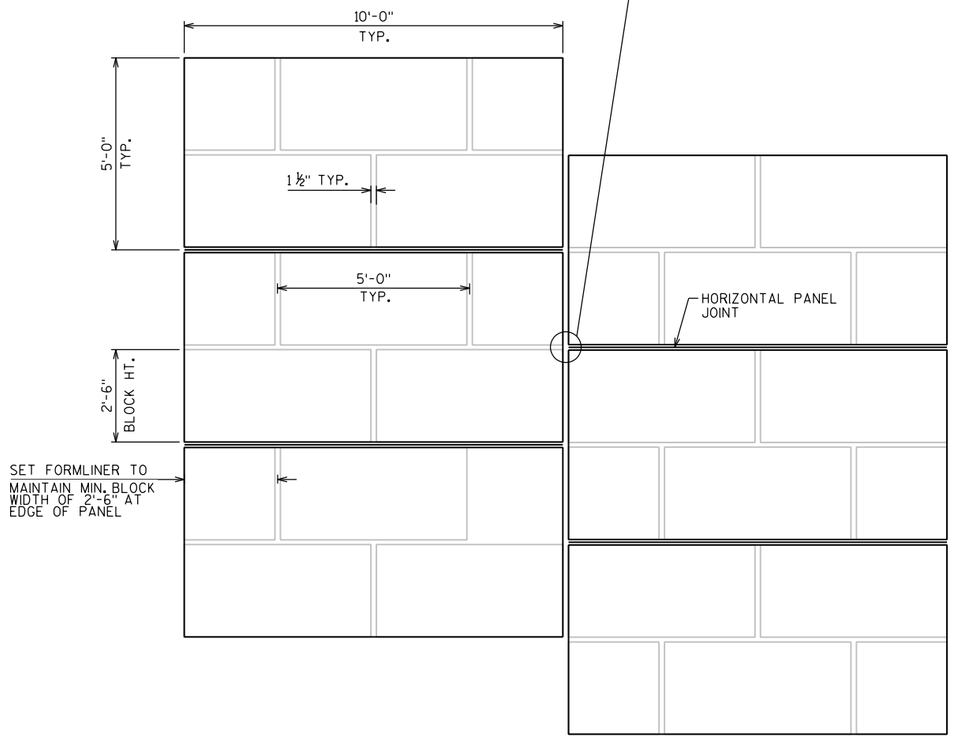
ALL PANELS ARE TO BE STAINED PER DETAILS ON THIS SHEET.

FORMLINER COURSING SHALL BE LEVEL AND CONTINUOUS ACROSS VERTICAL PANEL JOINTS.

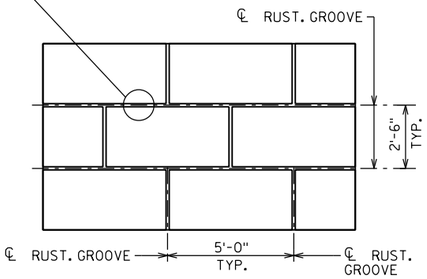




TYPICAL RUSTICATION GROOVE DETAIL

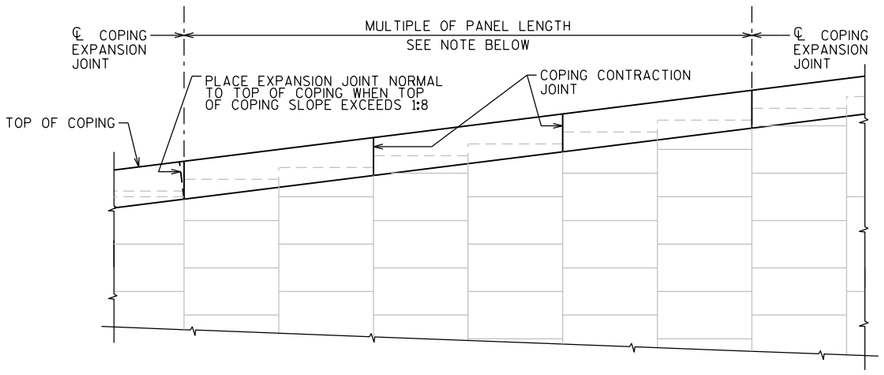


TYPICAL PANEL AESTHETIC DETAILS



RECTANGULAR BLOCK FORMLINER

(2'-6" X 5'-0" NOMINAL BLOCK SIZE)



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.
PIPE RAILING NOT SHOWN FOR CLARITY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-370

DRAWN BY CAR | PLANS CK'D. JRS

WALL & AESTHETIC DETAILS

SHEET 4
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STATE PROJECT NUMBER

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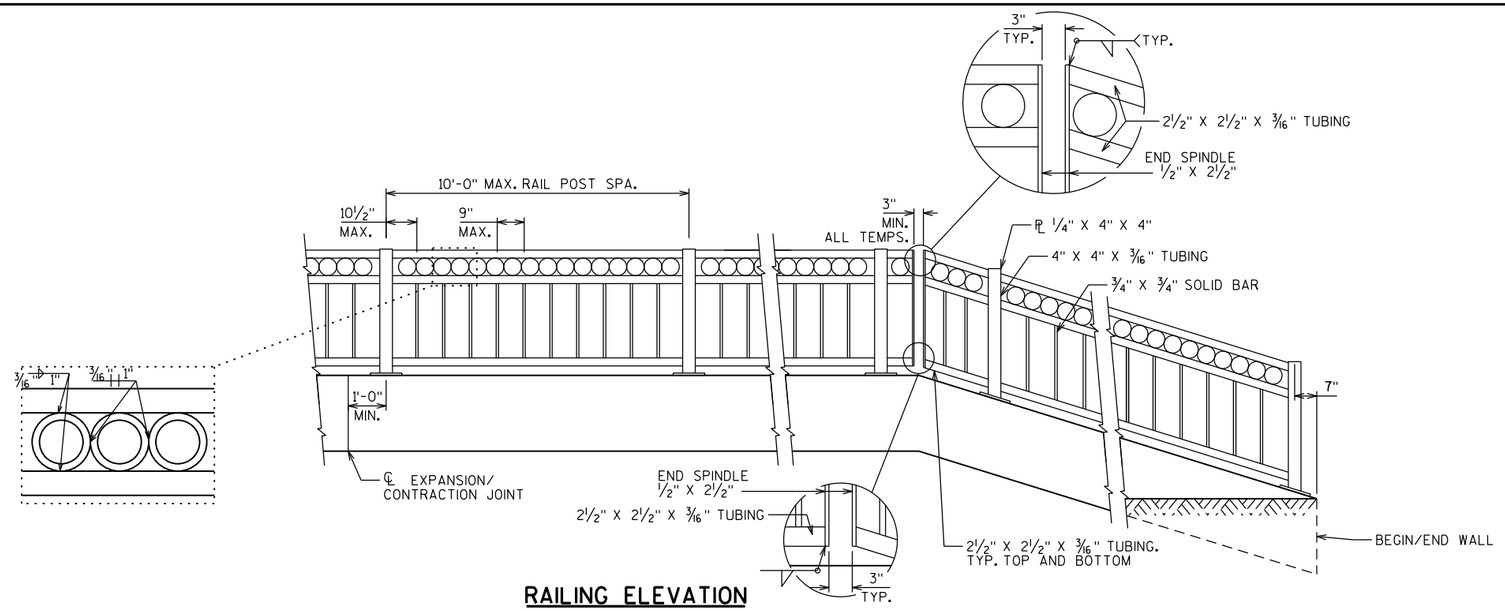


RAILING ELEVATION

NOTES

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. PLATES, ANGLES, BARS AND SHIMS SHALL CONFORM TO ASTM A709, GRADE 36.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS NORMAL TO GRADE.

ALL POST SPACINGS ARE TAKEN HORIZONTAL ALONG CENTERLINE OF RAILING AT BASE OF POST.

STEEL SHIMS SHALL BE PROVIDED AND USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS WITH NON-STAINING NON-BITUMINOUS JOINT SEALER. COLOR TO MATCH CONCRETE STAIN.

CUT BOTTOM OF POST TO MAKE VERTICAL IN TRANSVERSE DIRECTION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED. ⬢

BID ITEM SHALL BE "RAILING TUBULAR SCREENING" WHICH SHALL INCLUDE ALL ITEMS SHOWN.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 POSTS.

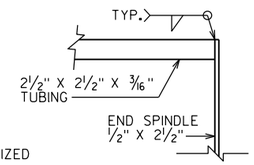
VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

ALL RAILING MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED AMS STANDARD COLOR NO. 27038, BLACK.

SECTION THRU RAILING

SHIM PLATE DETAILS

TWO SHIMS OF EACH SIZE REQUIRED PER POST



RAIL DETAIL

BASE PLATE

ANCHORAGE DETAIL

⬢ ALTERNATIVE ANCHORAGE: ADHESIVE ANCHORS 5/8-INCH. EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.

NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.

LEGEND

○ 5/16" × 3/8" WELDED STUDS

△ WELD BEAD ON EACH SIDE OF TUBE. GRIND BEADS SO THAT SLEEVE FITS FREELY INSIDE THE 2½" × 2½" TUBE.

RAILING EXPANSION JOINT DETAIL

SECTION THRU WALL AT GATES

NOTE:
ALL POSTS, GATES AND ASSOCIATED HARDWARE SHALL BE PAINTED (AMS STANDARD COLOR NO. 27038, "BLACK") AND SHALL BE PAID FOR UNDER THE BID ITEM "RAILING TUBULAR SCREENING"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-370

DRAWN BY	CAR	PLANS CK'D.	JRS

RAILING TUBULAR SCREENING

SHEET 5
959

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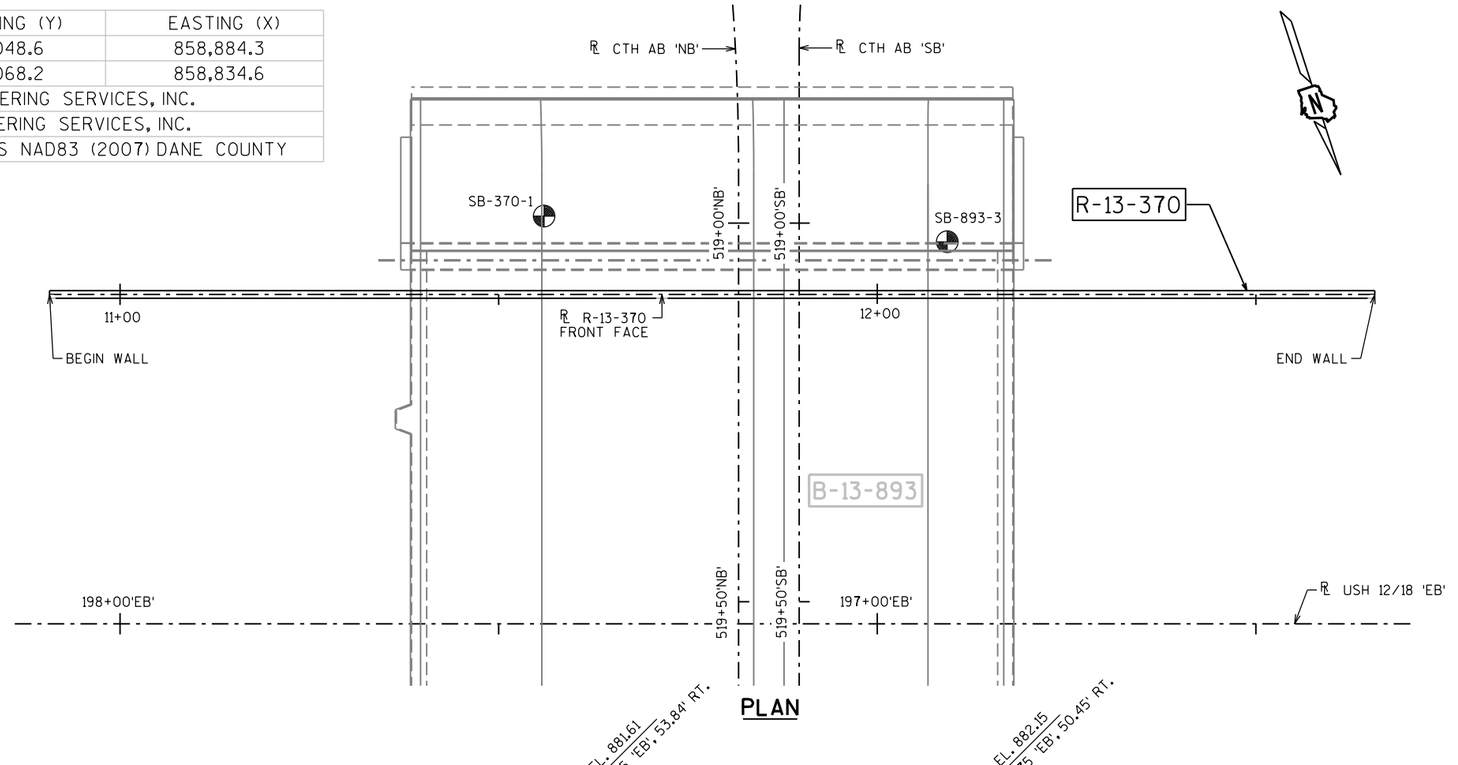
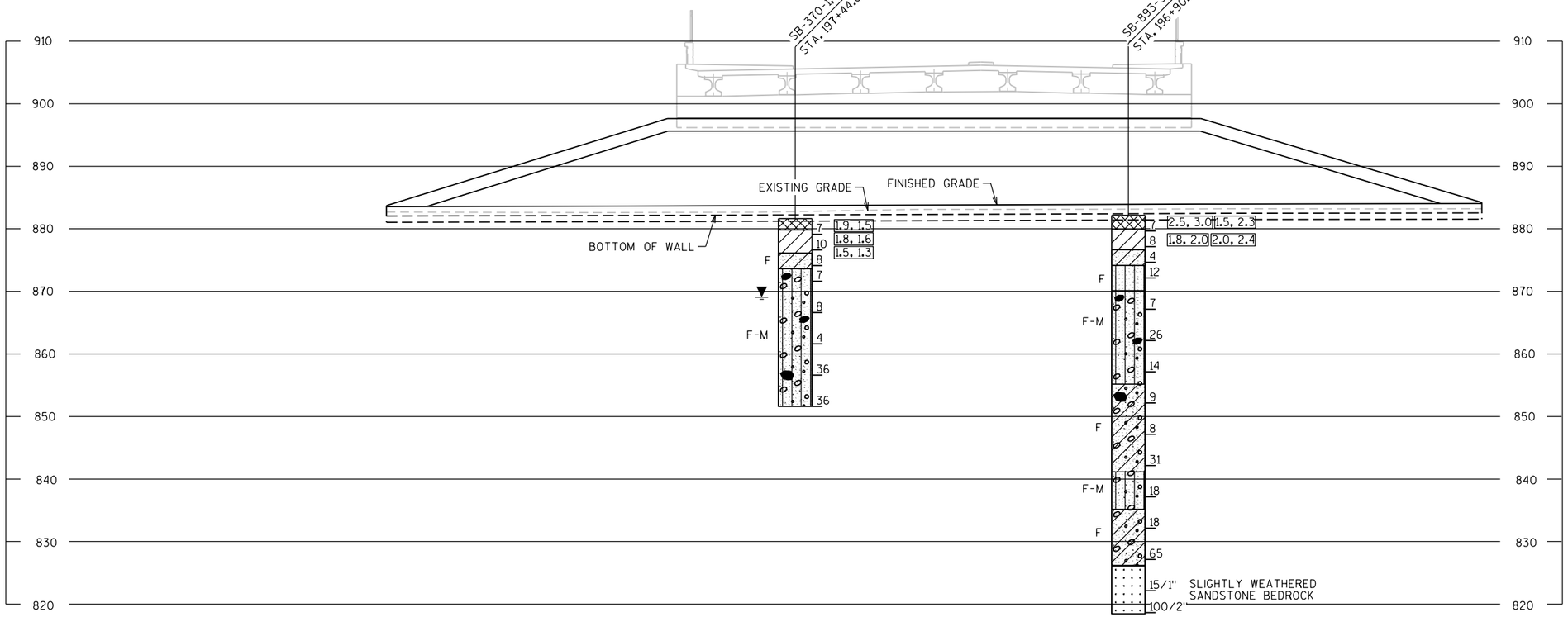
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
SB-370-1	05-05-2021	470,048.6	858,884.3
SB-893-3	05-05-2021	470,068.2	858,834.6
BORINGS COMPLETED BY: SOILS & ENGINEERING SERVICES, INC.			
REPORT COMPLETED BY: SOILS & ENGINEERING SERVICES, INC.			
ALL COORDINATES REFERENCED TO WISCRS NAD83 (2007) DANE COUNTY			



PLAN



ELEVATION

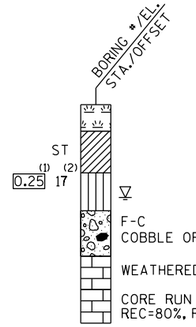
STATE PROJECT NUMBER

3080-01-75

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▼ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-370

DRAWN BY CAR | PLANS CK'D. JRS

SUBSURFACE EXPLORATION

SHEET 6
960

8

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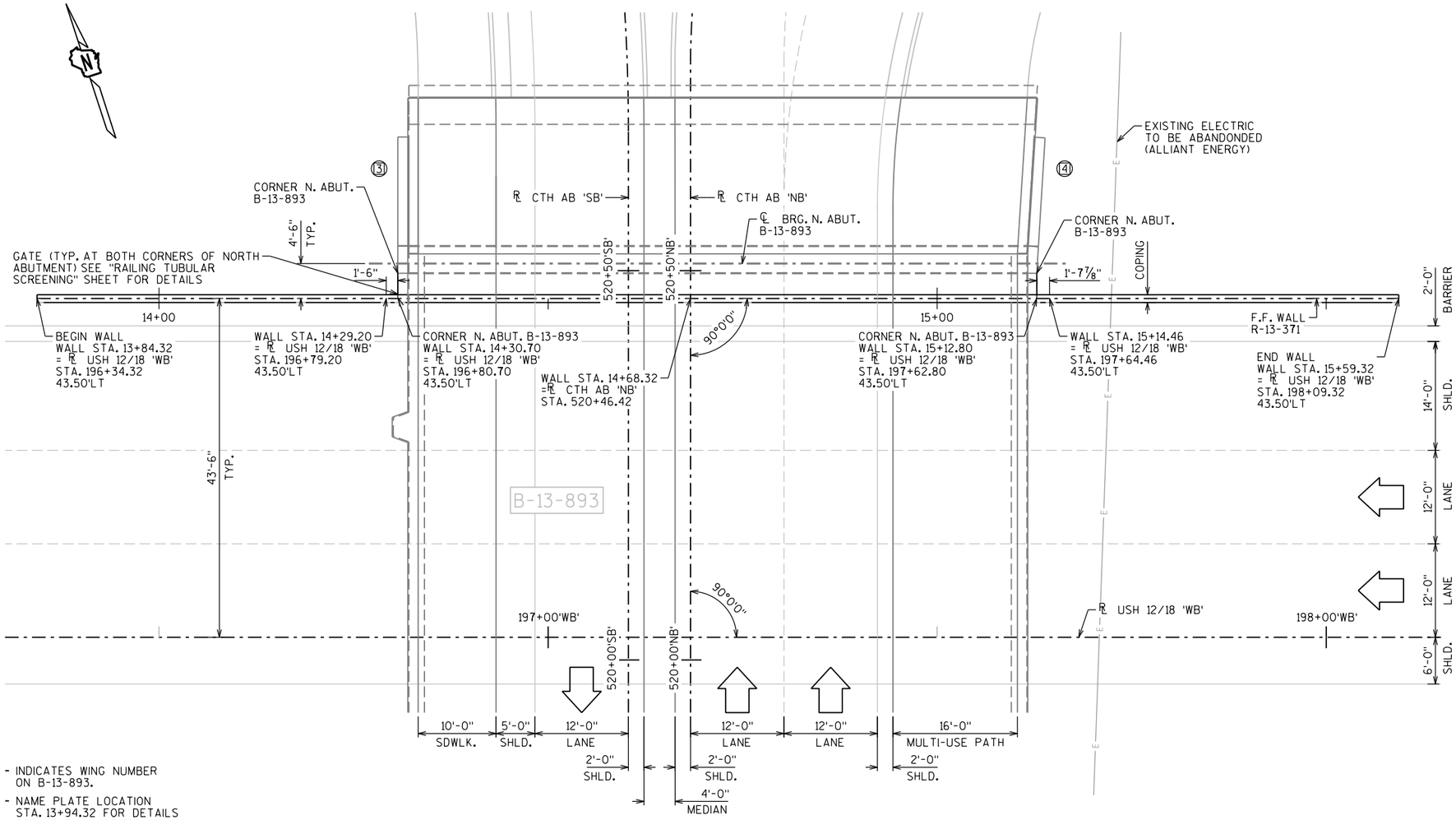
STATE PROJECT NUMBER

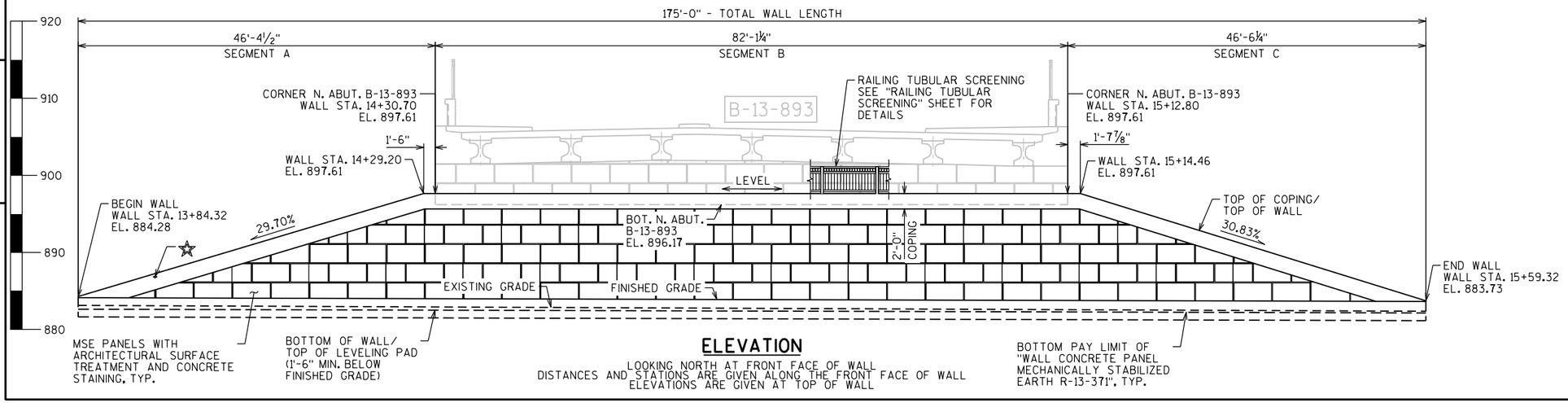
3080-01-75



- ⓘ - INDICATES WING NUMBER ON B-13-893.
- ☆ - NAME PLATE LOCATION STA. 13+94.32 FOR DETAILS SEE "TYPICAL SECTIONS & WALL DETAILS" SHEET.

PLAN

PRECAST CONCRETE PANEL MSE WALL



ELEVATION

LOOKING NORTH AT FRONT FACE OF WALL
DISTANCES AND STATIONS ARE GIVEN ALONG THE FRONT FACE OF WALL
ELEVATIONS ARE GIVEN AT TOP OF WALL

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-13-371".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFIRM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET AND IN THE GEOMETRY TABLE PROVIDED ON "QUANTITIES, WALL DATA & NOTES" SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

DESIGN THE MSE WALL IN FRONT OF THE ABUTMENT BODY TO RESIST THE FORCES FROM ALL HORIZONTAL EARTH PRESSURE ACTING ON THE BACK OF THE ABUTMENT BELOW THE BEAM SEAT AND A LIVE LOAD VERTICAL SURCHARGE OF 240 PSF. DESIGN THE MSE WALL SEGMENT A AND SEGMENT C FOR A LIVE LOAD SURCHARGE OF 100 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

MATERIAL PROPERTIES:

CONCRETE MASONRY, CONCRETE COPING ——— f'c = 3,500 P.S.I.
PRECAST CONCRETE WALL PANELS ——— f'c = 4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 ——— fy = 60,000 P.S.I.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH

TRAFFIC VOLUME

CTH AB	USH 12/18
ADT = 9,400 (2043)	ADT = 25,300 (2043)
R.D.S. = 30 M.P.H.	R.D.S. = 60 M.P.H.

LIST OF DRAWINGS

1. MSE PRECAST CONCRETE PANEL
2. QUANTITIES, WALL DATA & NOTES
3. TYPICAL SECTIONS & WALL DETAILS
4. WALL & AESTHETIC DETAILS
5. RAILING TUBULAR SCREENING
6. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:

JOSH SWENO (608) 355-8852
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMB 03/14/22
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-13-371

MSE WALL ALONG N. ABUT. B-13-893 & USH 12/18

COUNTY: DANE — TOWN: COTTAGE GROVE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
JFM	JRS	SCL/CAR	JRS

MSE PRECAST CONCRETE PANEL WALL

SHEET 1 OF 6
961

I.D. 3080-01-05C DATE: OCT 2021

SCALE = 8.00

8 8

GEOMETRY TABLE

	WALL STATION	℄ USH 12/18 'WB' STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
SEGMENT A	13+84.32	196+34.32	43.50' LT	884.28	884.28	883.11
	14+00.00	196+50.00	43.50' LT	888.94	884.24	883.05
	14+25.00	196+75.00	43.50' LT	896.36	884.21	882.96
	14+29.20	196+79.20	43.50' LT	897.61	884.20	882.94
	14+30.70	196+80.70	43.50' LT	897.61	884.20	882.94
SEGMENT B	14+30.70	196+80.70	43.50' LT	897.61	884.20	882.94
	14+50.00	197+00.00	43.50' LT	897.61	884.16	882.89
	14+75.00	197+25.00	43.50' LT	897.61	884.07	882.77
	15+00.00	197+50.00	43.50' LT	897.61	883.98	882.48
	15+12.80	197+62.80	43.50' LT	897.61	883.92	882.48
SEGMENT C	15+12.80	197+62.80	43.50' LT	897.61	883.92	882.48
	15+14.46	197+64.46	43.50' LT	897.61	883.92	882.48
	15+25.00	197+75.00	43.50' LT	894.31	883.88	882.44
	15+50.00	198+00.00	43.50' LT	886.60	883.77	882.38
	15+59.32	198+09.32	43.50' LT	883.73	883.73	882.36

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND THE THE REINFORCING ZONE	30	0	120
BORING SB-371-1 - STA. 196+87.77 'WB' - 44.6' LT			
FILL TOPSOIL - LEAN CLAY WITH SAND EL. 883.4 TO EL. 883.2	0	500	120
FILL - POORLY GRADED SAND WITH GRAVEL EL. 883.2 TO EL. 881.9	30	0	130
FILL - CLAYEY SAND WITH GRAVEL EL. 881.9 TO EL. 880.4	30	0	130
TOPSOIL - LEAN CLAY EL. 880.4 TO EL. 879.4	0	1,000	120
LEAN CLAY EL. 879.4 TO EL. 875.4	0	800	125
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 875.4 TO EL. 836.4	30	0	135
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 836.4 TO EL. 829.9	40	0	145
BORING SB-893-1 - STA. 197+51.62 'WB' - 46.57' LT			
FILL TOPSOIL - LEAN CLAY EL. 882.6 TO EL. 882.1	0	500	120
FILL - SILTY SAND WITH GRAVEL EL. 882.1 TO EL. 879.0	30	0	130
TOPSOIL - LEAN CLAY EL. 879.0 TO EL. 878.6	30	1,000	120
LEAN CLAY EL. 878.6 TO EL. 877.1	0	1,900	132
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 877.1 TO EL. 874.6	31	0	135
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 874.6 TO EL. 870.0	33	0	140
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 870.0 TO EL. 865.6	32	0	140
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 865.6 TO EL. 860.6	37	0	140
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 860.6 TO EL. 853.6	29	0	135
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 853.6 TO EL. 845.6	29	0	135
SILTY SAND WITH GRAVEL AND COBBLES, GLACIAL TILL EL. 845.6 TO EL. 838.6	45	0	149
SANDSTONE EL. 838.6 TO EL. 824.1	45	0	137

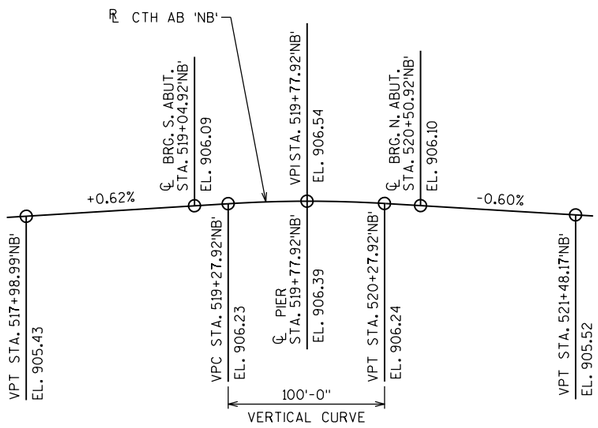
WALL EXTERNAL & OVERALL STABILITY EVALUATION

STATE PROJECT NUMBER

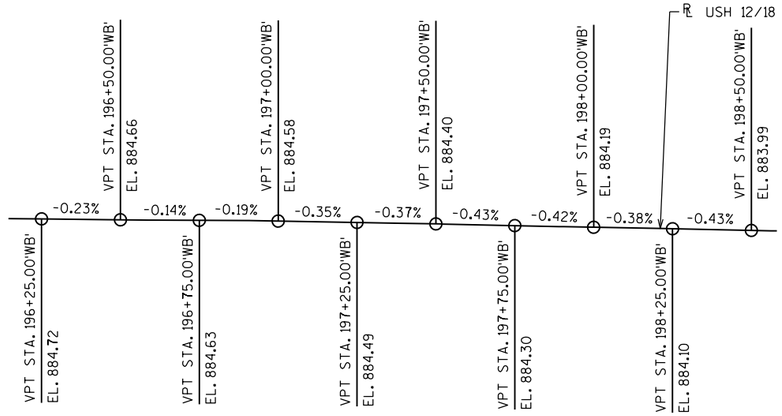
3080-01-75

DIMENSIONS		
WALL HEIGHT (FEET)	15.3	15.3
EXPOSED WALL HEIGHT (FEET)	13.8	13.8
MINIMUM LENGTH OF REINFORCEMENT (FEET) [2]	19	11
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	1.2	0.7
BORING LOCATION USED [1]	SB-371-1 & SB-893-1	SB-371-1 & SB-893-1
APPROXIMATE WALL STATION	15+12 (ABUT.)	15+14 (ADJ. TO ABUT.)
BACK SLOPE ABOVE WALL	FLAT	20°
CAPACITY TO DEMAND RATIO (CDR)		
SLIDING (CDR > 1.0)	1.0	1.0
ECCENTRICITY (CDR > 1.0)	1.6	1.3
OVERALL STABILITY (CDR > 1.0) [3]	-	1.6
BEARING RESISTANCE (CDR > 1.0)	1.8	1.4
FACTORED BEARING RESISTANCE (PSF)	10,600	7,000

NOTES:
1. IF MORE THAN ONE BORING IS LISTED, THEN A COMPOSITE SOIL PROFILE WAS USED IN THE ANALYSES.
2. THE REINFORCEMENT LENGTH IS THE MINIMUM REQUIRED LENGTH BEHIND THE MSE FACING WHICH IS EQUAL TO THE MAXIMUM OF 8 FEET.
3. GLOBAL STABILITY IS ONLY EVALUATED AT THE CRITICAL WALL LOCATION.



PROFILE GRADE LINE CTH AB 'NB'



PROFILE GRADE LINE USH 12/18 'WB'

TOTAL ESTIMATED QUANTITIES

✳ CATEGORY 0020 BID ITEMS. ALL OTHER BID ITEMS ARE CATEGORY 0060.

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
✳	513.4091	RAILING TUBULAR SCREENING R-13-371	LF	185
✳	517.1010.S.03	CONCRETE STAINING R-13-371	SF	2,207
✳	517.1050.S.03	ARCHITECTURAL SURFACE TREATMENT R-13-371	SF	1,581
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	195
	SPV.0165.02	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-13-371	SF	2,026
		NON-BID ITEMS		
		NON-BITUMINOUS JOINT SEALER	SIZE	¾"
		PREFORMED FILLER	SIZE	¾"
		EXPANDED POLYSTYRENE	SIZE	1"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD 1/8" BELOW THE SURFACE OF CONCRETE). THE COLOR OF THE NON-STAINING NON-BITUMINOUS JOINT SEALER SHALL MATCH THE COLORS OF THE CONCRETE STAINING.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-13-371.

THE EXISTING GROUND LINE IS THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-13-371" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

THE QUANTITY OF CONCRETE MASONRY AND REINFORCING STEEL FOR THE CAST IN PLACE COPING IS INCIDENTAL TO THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-13-371".

COORDINATE THE CONSTRUCTION OF RETAINING WALL R-13-371 WITH THE NORTH ABUTMENT OF BRIDGE B-13-893.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-371

DRAWN BY SCL/CAR | PLANS CK'D. JRS

QUANTITIES, WALL DATA & NOTES

SHEET 2
962

8

8

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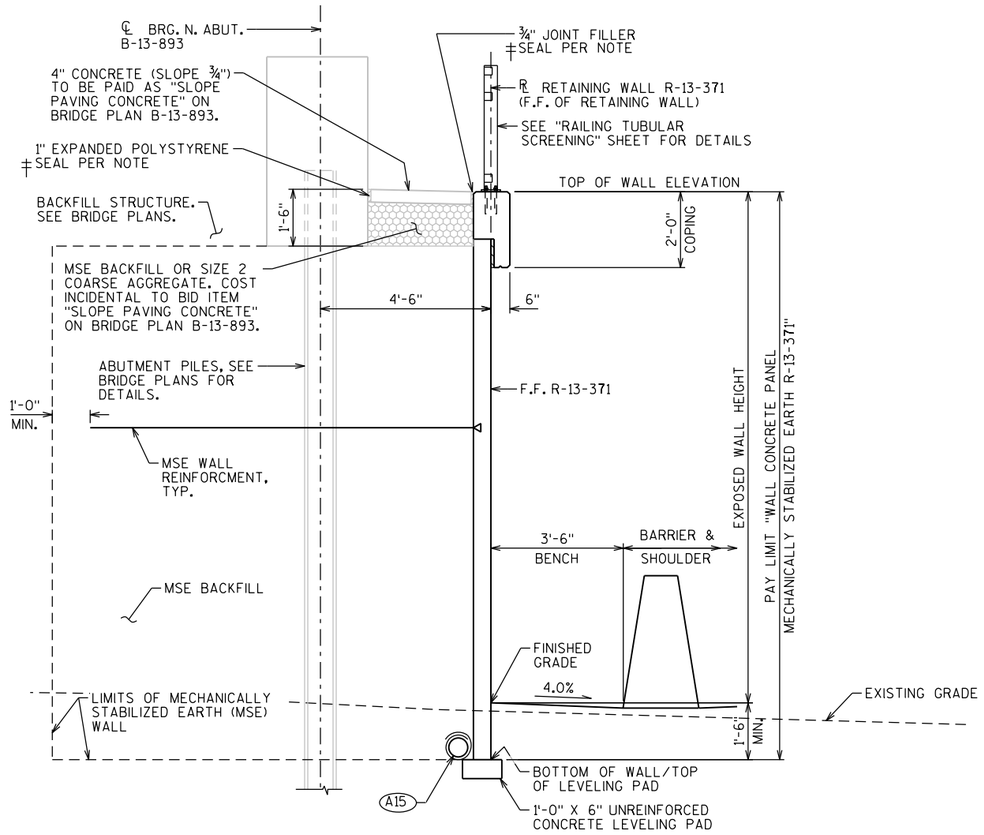
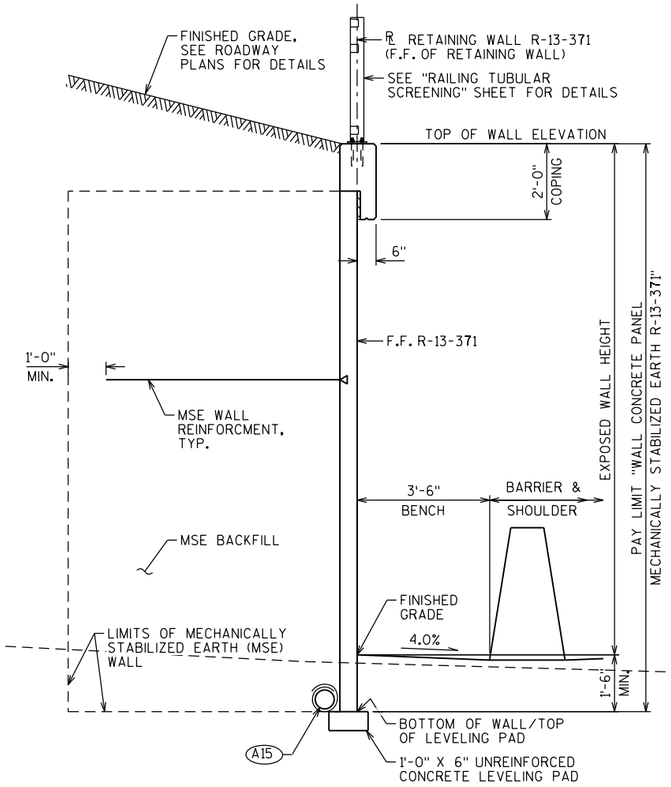


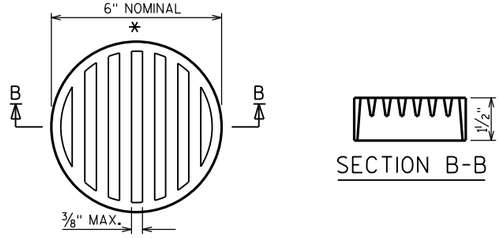
TYPICAL SECTION AT ABUTMENT - LOOKING EAST

SEGMENT B: WALL STA. 14+30.70 TO 15+12.80



TYPICAL SECTION - LOOKING EAST

SEGMENT A: WALL STA. 13+84.32 TO 14+30.70
SEGMENT C: WALL STA. 15+12.80 TO 15+59.32



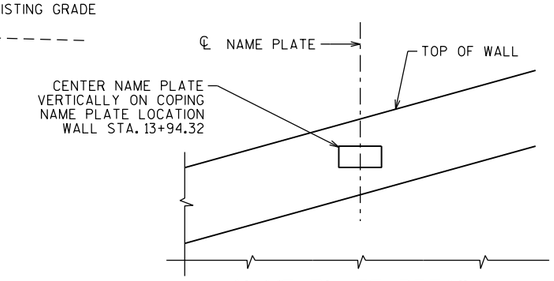
SECTION B-B

RODENT SHIELD DETAIL

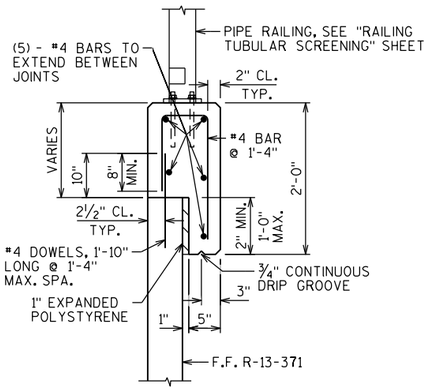
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

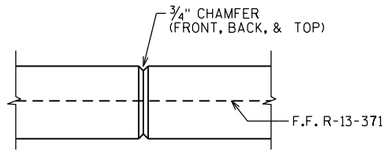
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



NAME PLATE DETAIL

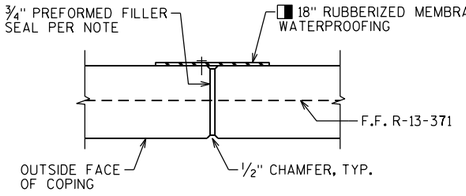


CAST-IN-PLACE CONCRETE COPING DETAIL



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'



COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS AND IS INCIDENTAL TO "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH R-13-371".

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD 1/8" BELOW THE SURFACE OF CONCRETE). THE COLOR OF THE NON-STAINING NON-BITUMINOUS JOINT SEALER SHALL MATCH THE COLORS OF THE CONCRETE STAINING.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-371

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TYPICAL SECTIONS & WALL DETAILS

SHEET 3
963

8

8

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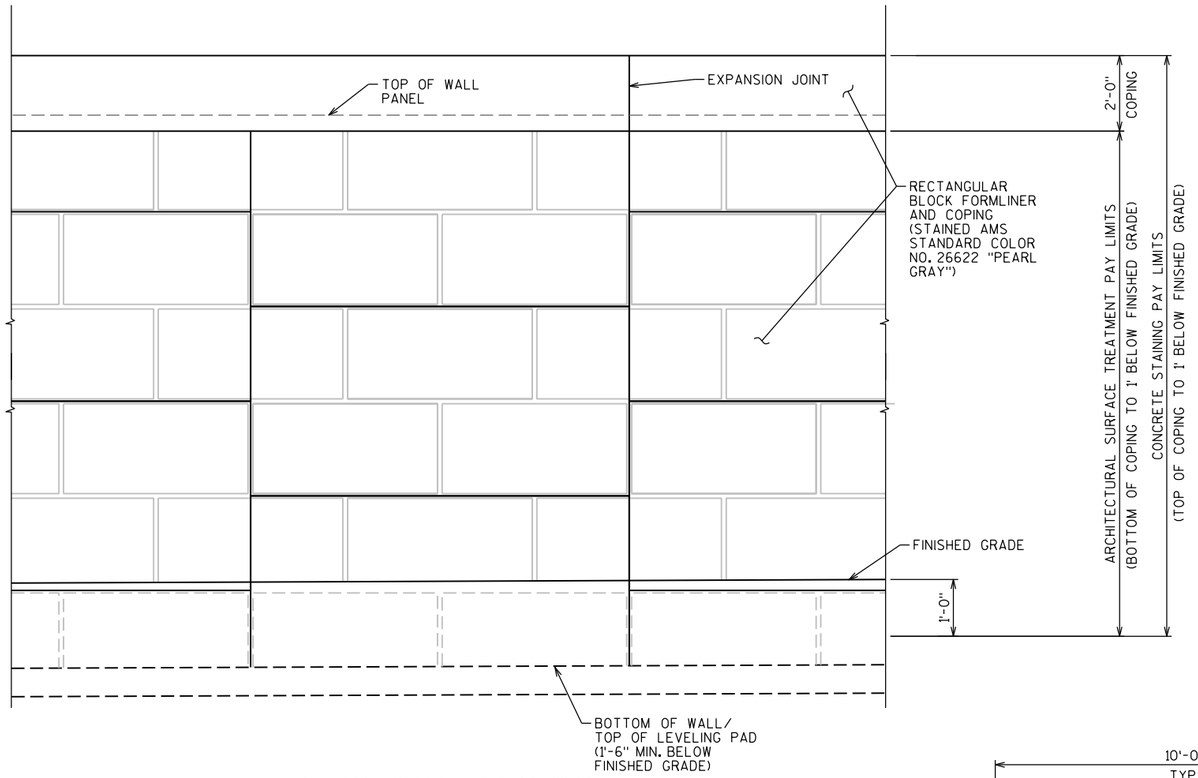
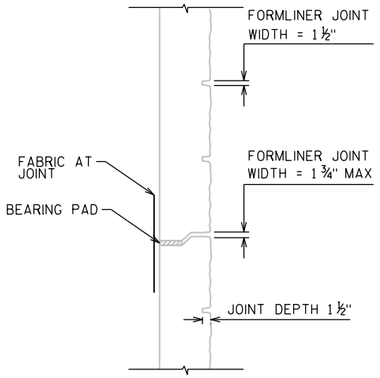


PARTIAL WALL ELEVATION



TYPICAL PANEL JOINT CROSS SECTION

NOTES

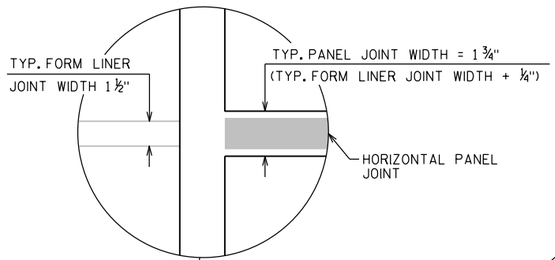
PROVIDE AESTHETIC DETAILS SHOWN IN THIS PLAN AND AS NOTED IN THE SPECIAL PROVISIONS.

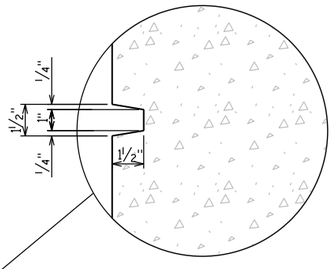
ALL STONE EDGES ADJACENT TO VERTICAL PANEL JOINTS SHALL BE FLUSH CUT.

AVERAGE RELIEF IS 1 ½" FOR THE FACE OF THE BLOCKS WITH A MAXIMUM RELIEF OF 1 ¾" FOR THE JOINTS.

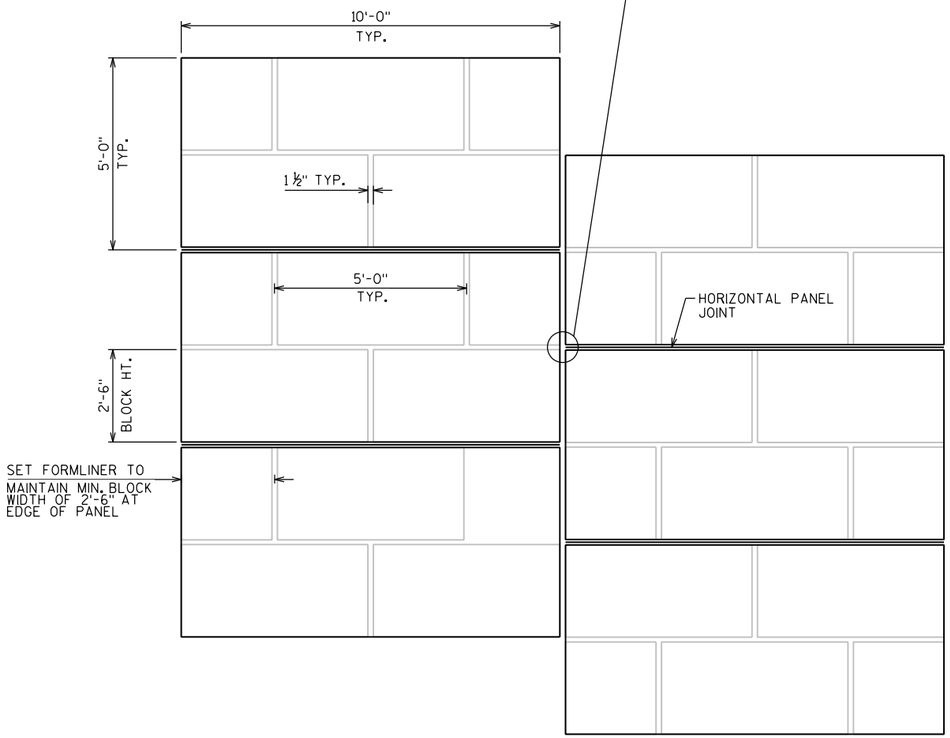
ALL PANELS ARE TO BE STAINED PER DETAILS ON THIS SHEET.

FORMLINER COURSING SHALL BE LEVEL AND CONTINUOUS ACROSS VERTICAL PANEL JOINTS.

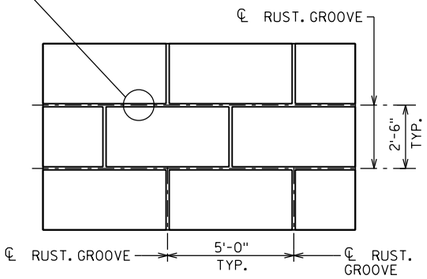




TYPICAL RUSTICATION GROOVE DETAIL

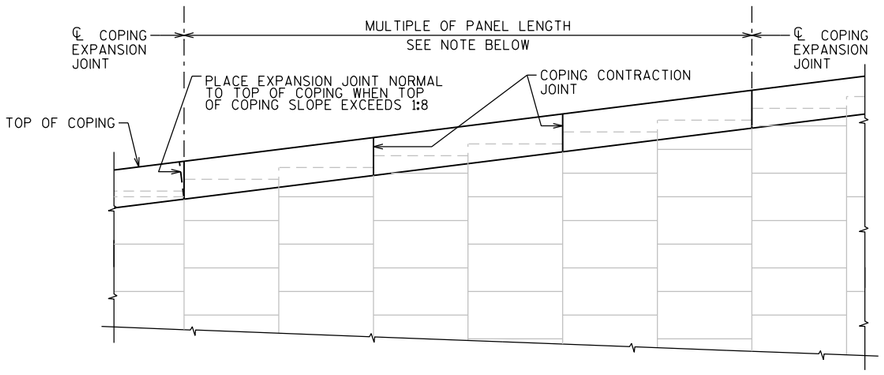


TYPICAL PANEL AESTHETIC DETAILS



RECTANGULAR BLOCK FORMLINER

(2'-6" X 5'-0" NOMINAL BLOCK SIZE)



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.
PIPE RAILING NOT SHOWN FOR CLARITY.

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STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE R-13-371

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WALL & AESTHETIC DETAILS

SHEET 4
964

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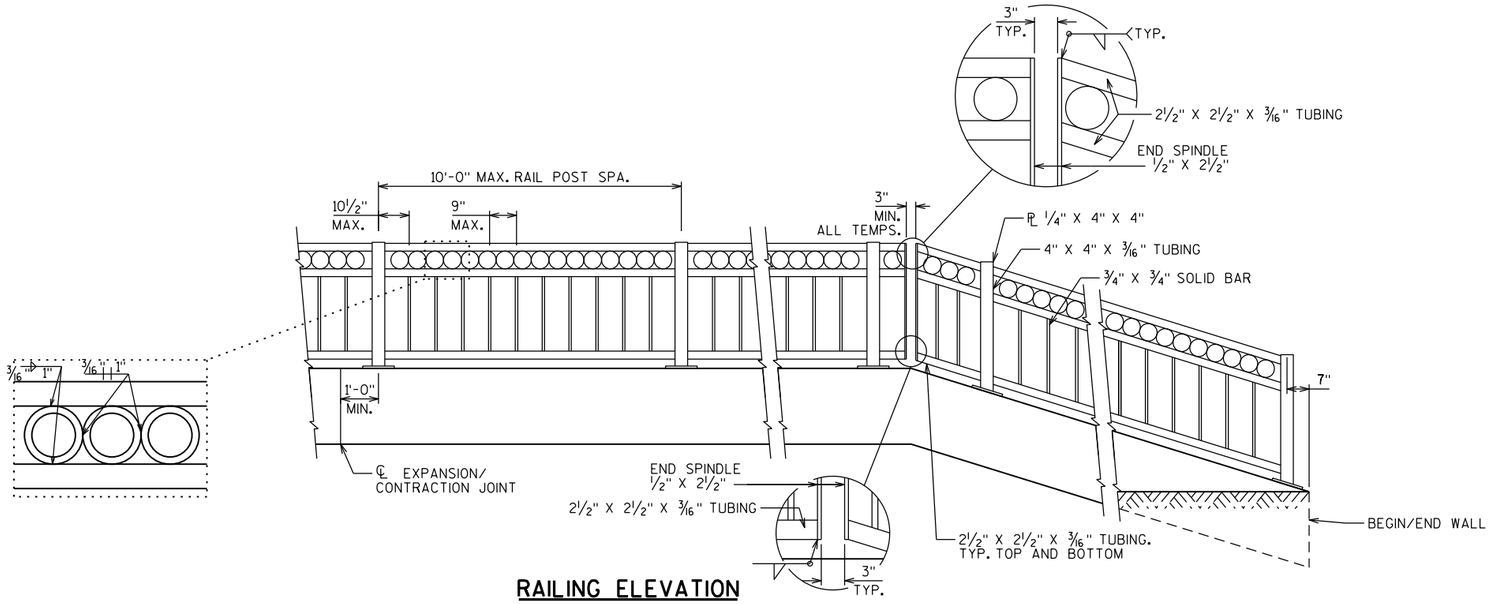
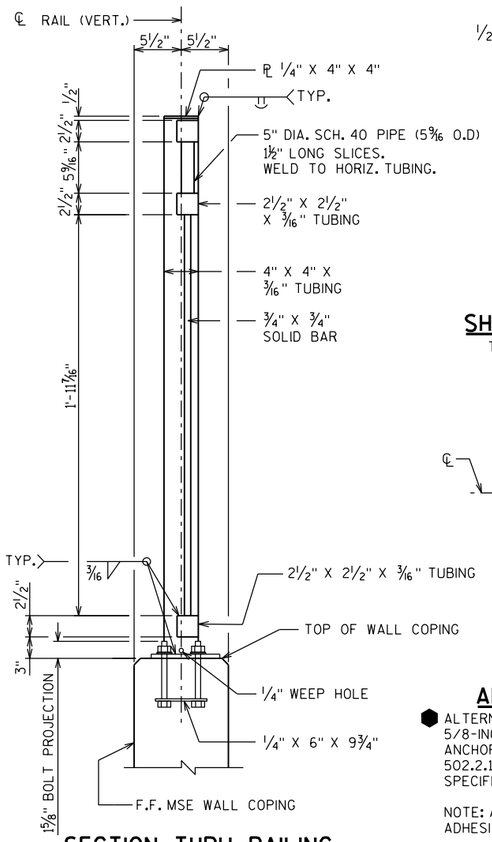
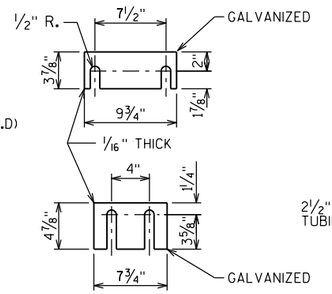


RAILING ELEVATION

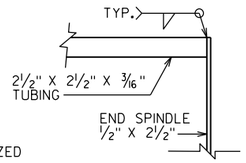


SECTION THRU RAILING

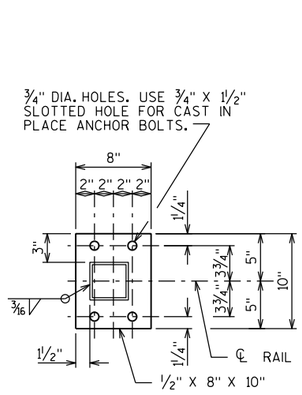


SHIM PLATE DETAILS

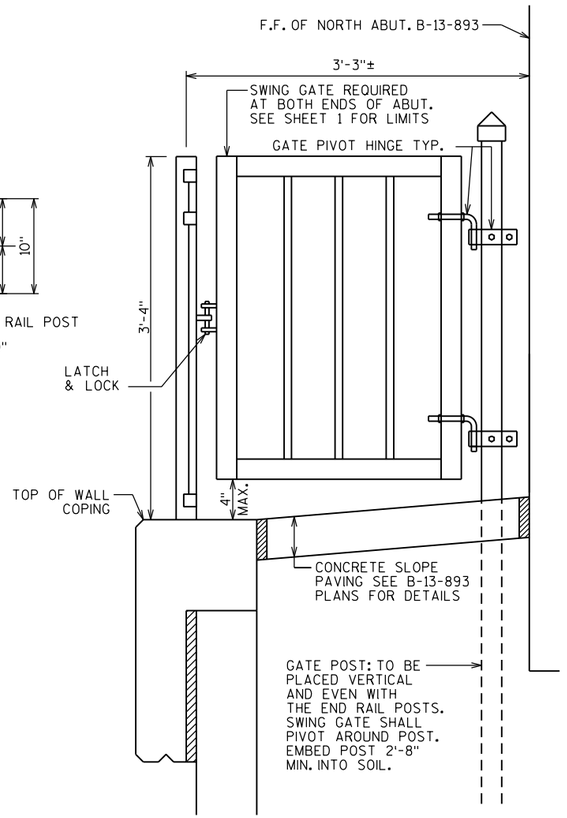
TWO SHIMS OF EACH SIZE REQUIRED PER POST



RAIL DETAIL

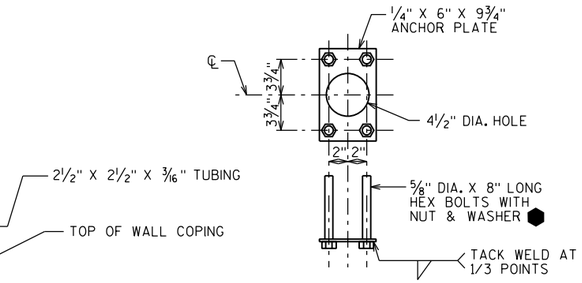


BASE PLATE



SECTION THRU WALL AT GATES

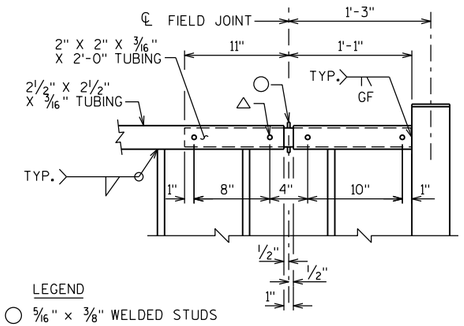
NOTE:
ALL POSTS, GATES AND ASSOCIATED HARDWARE SHALL BE PAINTED (AMS STANDARD COLOR NO. 27038, "BLACK") AND SHALL BE PAID FOR UNDER THE BID ITEM "RAILING TUBULAR SCREENING"



ANCHORAGE DETAIL

⬢ ALTERNATIVE ANCHORAGE: ADHESIVE ANCHORS 5/8-INCH. EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.

NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



LEGEND

○ 5/16" × ⅜" WELDED STUDS

△ WELD BEAD ON EACH SIDE OF TUBE. GRIND BEADS SO THAT SLEEVE FITS FREELY INSIDE THE 2½" × 2½" TUBE.

RAILING EXPANSION JOINT DETAIL

NOTES

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. PLATES, ANGLES, BARS AND SHIMS SHALL CONFORM TO ASTM A709, GRADE 36.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS NORMAL TO GRADE.

ALL POST SPACINGS ARE TAKEN HORIZONTAL ALONG CENTERLINE OF RAILING AT BASE OF POST.

STEEL SHIMS SHALL BE PROVIDED AND USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS WITH NON-STAINING NON-BITUMINOUS JOINT SEALER. COLOR TO MATCH CONCRETE STAIN.

CUT BOTTOM OF POST TO MAKE VERTICAL IN TRANSVERSE DIRECTION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED. ⬢

BID ITEM SHALL BE "RAILING TUBULAR SCREENING" WHICH SHALL INCLUDE ALL ITEMS SHOWN.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 POSTS.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

ALL RAILING MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED AMS STANDARD COLOR NO. 27038, BLACK.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-371

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RAILING TUBULAR SCREENING

SHEET 5
965

8

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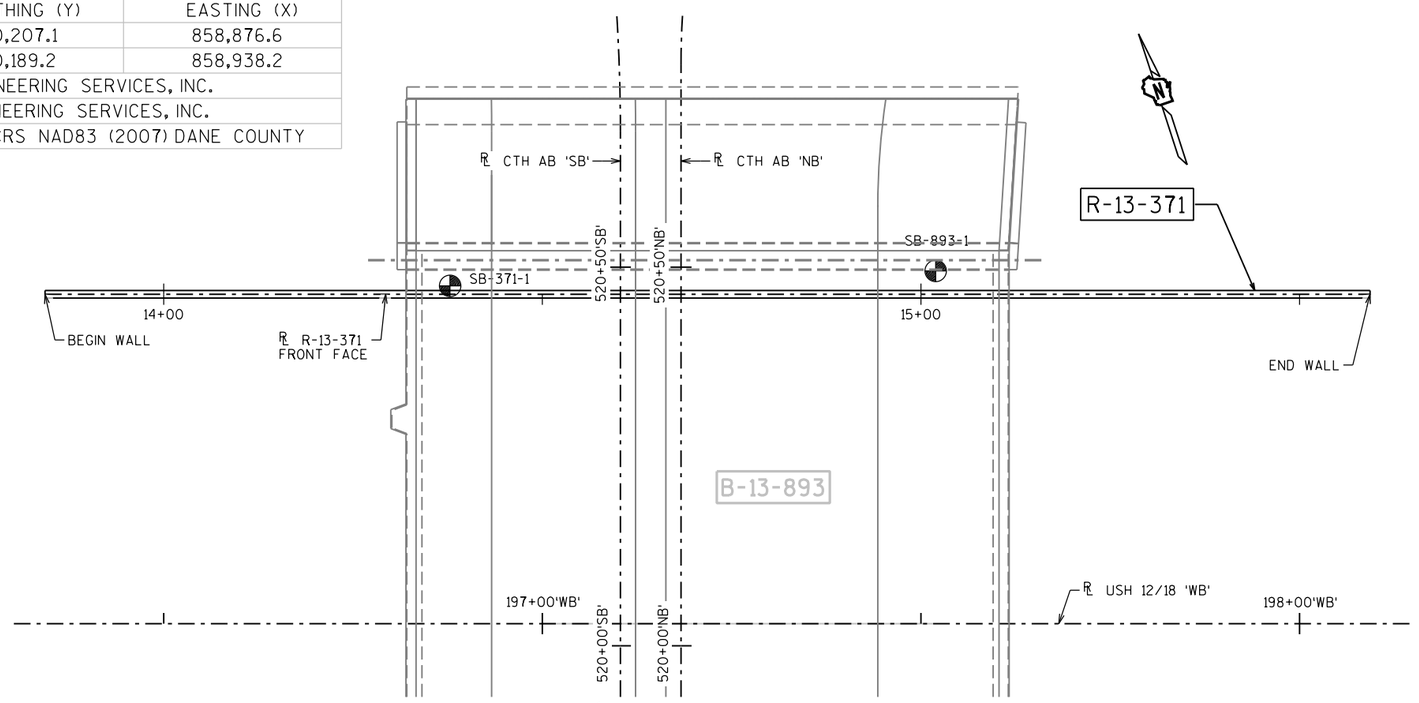
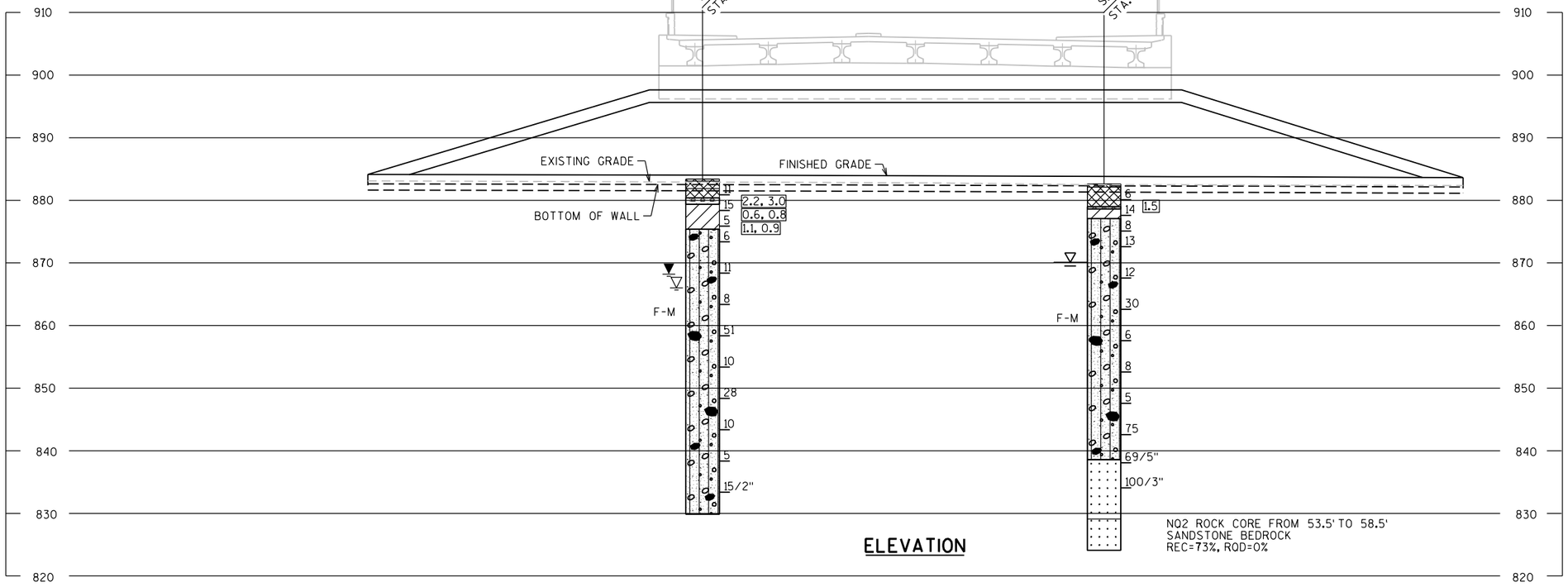
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
SB-371-1	04-20-2021	470,207.1	858,876.6
SB-893-1	04-22-2021	470,189.2	858,938.2
BORINGS COMPLETED BY: SOILS & ENGINEERING SERVICES, INC.			
REPORT COMPLETED BY: SOILS & ENGINEERING SERVICES, INC.			
ALL COORDINATES REFERENCED TO WISCRS NAD83 (2007) DANE COUNTY			



PLAN



ELEVATION

STATE PROJECT NUMBER

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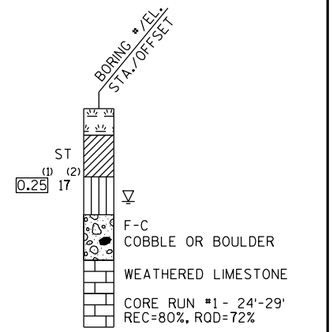
MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE R-13-371

DRAWN BY CAR | PLANS CK'D. JRS

SUBSURFACE EXPLORATION

SHEET 6
966

8

8

STATE PROJECT NUMBER

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DESIGN DATA

CONTRACTOR DESIGNED OVERHEAD SIGN STRUCTURES SHALL BE DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL.

STANDARD FOUNDATIONS DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD: WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD: 3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS.
WIND PRESSURE: 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1:	1.00	0.00
LOAD CASE 2:	0.00	1.00
LOAD CASE 3:	0.75	0.75

LOAD COMBINATIONS	
STRENGTH I:	1.25 DC + 1.6 LL
EXTREME I (MAX DC):	1.1 DC + 1.0 W + 1.0 ICE
EXTREME I (MIN DC):	0.9 DC + 1.0 W
SERVICE I:	1.0 DC + 1.0 W
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION)
	1.0 TRG (TRUCK INDUCED GUST VIBRATION)
	1.0 GVW (GALLOPING - CANTILEVER ONLY)

MATERIAL PROPERTIES

CONCRETE MASONRY ---------- f'c = 3,500 psi

HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60 ---------- fy = 60,000 psi

HIGH STRENGTH BOLTS - A325 ---------- fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ---------- fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE FOR DESIGN IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE. ACTUAL WATER LEVEL AT SITE MAY VARY. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

STRUCTURE DATA

SIGN STR	ACTUAL SIGN AREA	ACTUAL SIGN DEPTH	STANDARD TYPE
S-13-559	28 SF	4'-0"	MC-III
S-13-560	28 SF	4'-0"	MC-III
S-13-561	196.25 SF	8'-6"	TF-II

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE TRUSS OR MONOTUBE BID ITEMS FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.

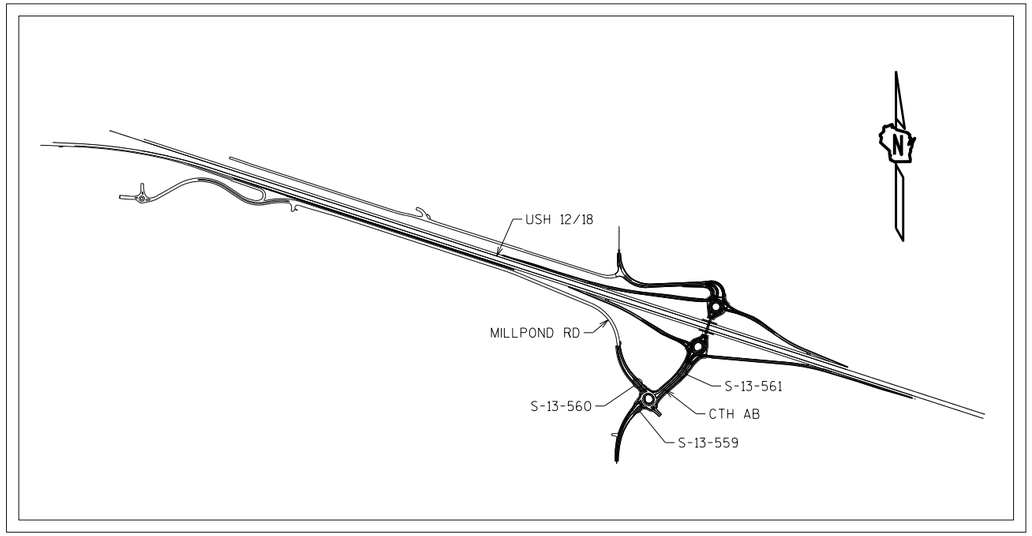
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "DRILLING SHAFT (DIA.)".

TRAFFIC VOLUME

CTH AB 'NB' (NORTH OF MILLPOND ROAD)
ADT = 17,300 (2043)
R.D.S. = 30 M.P.H.

CTH AB 'NB' (SOUTH OF MILLPOND ROAD)
ADT = 6,300 (2043)
R.D.S. = 30 M.P.H.

MILLPOND RD
ADT = 11,625 (2043)
R.D.S. = 25 M.P.H.



LOCATION MAP

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-13-559
3. GENERAL LAYOUT S-13-560
4. GENERAL LAYOUT S-13-561

LIST OF OSS STANDARD DESIGN DRAWINGS

5. I. MONOTUBE & 2-CHORD TRUSS DETAILS 1
6. II. MONOTUBE & 2-CHORD TRUSS DETAILS 2
7. III. MONOTUBE & 2-CHORD TRUSS ELECTRICAL DETAILS
8. IV. MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEM	UNIT	S-13-559	S-13-560	S-13-561
531.2036	DRILLING SHAFT 36-INCH	LF			40
531.2042	DRILLING SHAFT 42-INCH	LF	18	18	
531.5130	FOUNDATION SINGLE-SHAFT TYPE MC-III (S-13-559)	EA	1		
531.5130	FOUNDATION SINGLE-SHAFT TYPE MC-III (S-13-560)	EA		1	
531.5420	FOUNDATION SINGLE-SHAFT TYPE TF-II (S-13-561)	EA			2
532.5130	MONOTUBE CANTILEVER TYPE III (S-13-559)	EA	1		
532.5130	MONOTUBE CANTILEVER TYPE III (S-13-560)	EA		1	
532.5420	TRUSS FULL SPAN 2-CHORD TYPE II (S-13-561)	EA			1

STRUCTURE DESIGN CONTACTS:
SHANNON LIPE (608) 266-2369
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED DMB 03/14/22
CHIEF STRUCTURES DESIGN ENGINEER DATE

MONOTUBE AND 2-CHORD TRUSS PLANS

USH 12/18, CTH AB OVERPASS

COUNTY	TOWN
DANE	COTTAGE GROVE

DESIGN SPEC. AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
SCL	LJR	SCL	LJR

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 8

967

I.D. 3080-01-05D,E,F DATE: DEC 2021

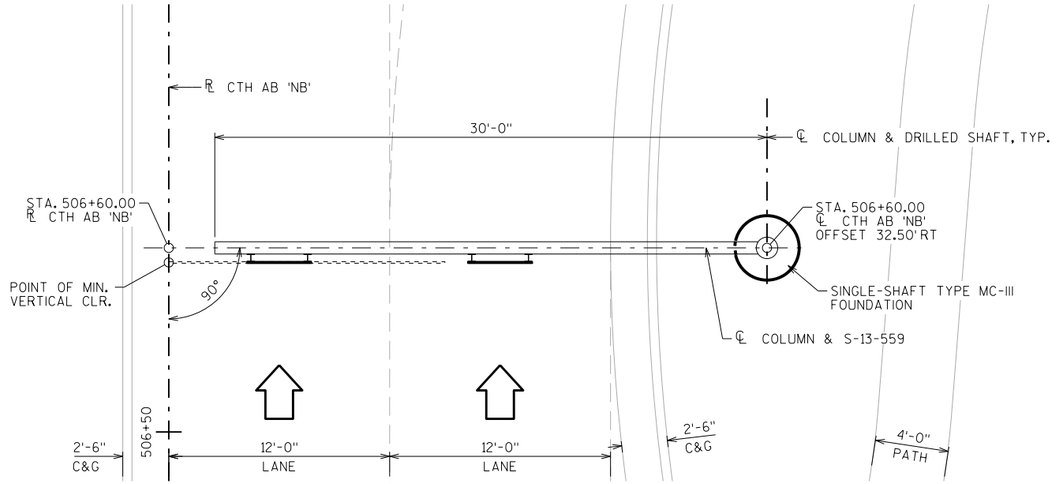
SCALE = 0.50

8

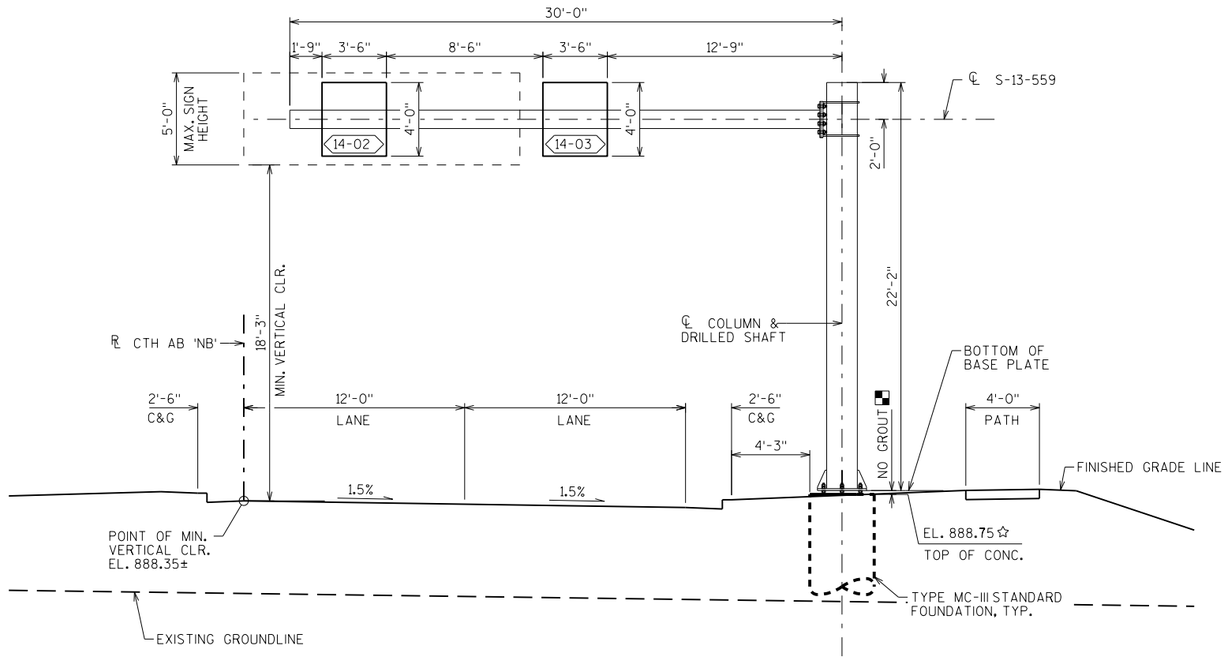
8

STATE PROJECT NUMBER

3080-01-75



PLAN



ELEVATION

STA. 506+60.00 'NB'
(LOOKING UPSTATION AT FRONT OF SIGN)

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA. 506+59.21±
EL. 888.35±

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ S-13-559

XX-XX SIGN NUMBERS (SEE PERMANENT SIGNING PLAN)

STANDOFF DIMENSION IS ASSUMED TO BE 2½", BUT IS A MAXIMUM OF 2 X ANCHOR ROD DIAMETER.SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-559

DRAWN BY SCL | PLANS CK'D. LJR

GENERAL LAYOUT
S-13-559

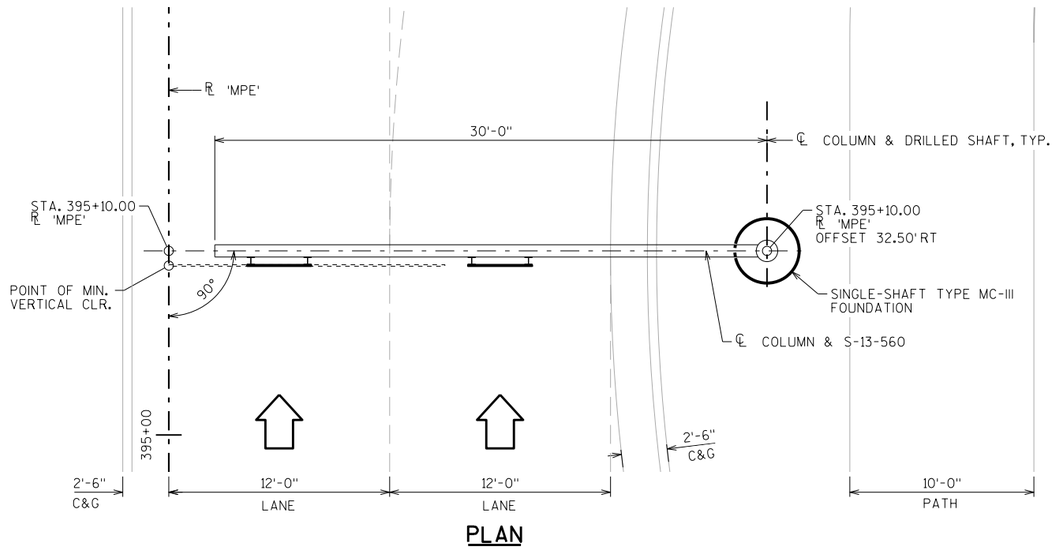
SHEET 2

968

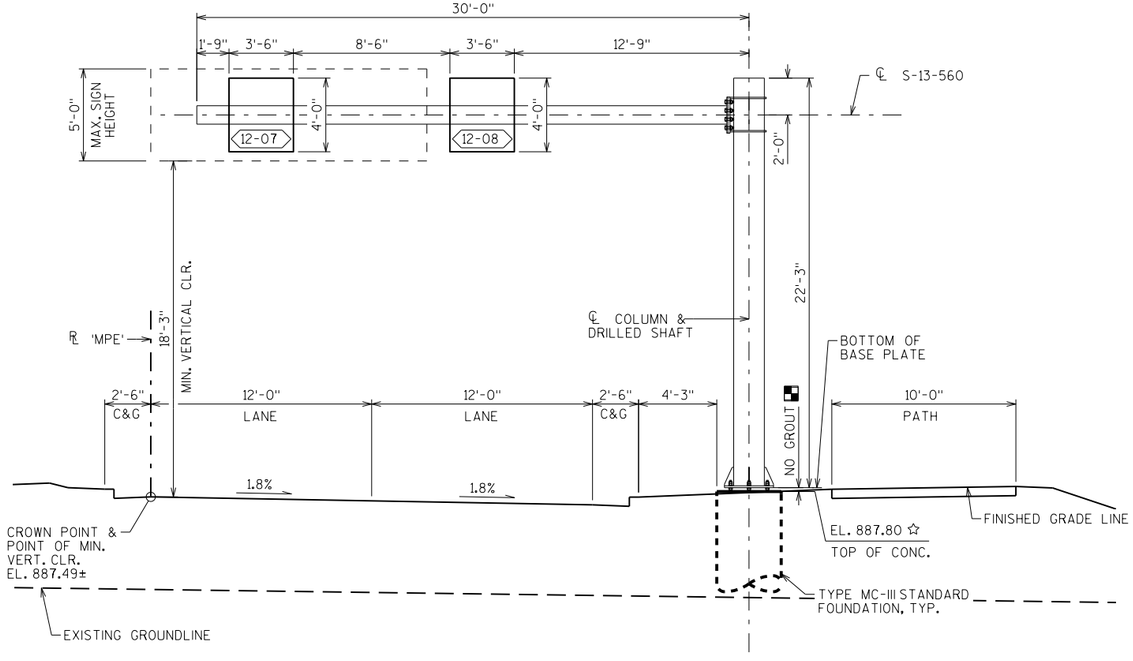
SCALE = 4.00

STATE PROJECT NUMBER

3080-01-75



PLAN



ELEVATION

STA. 395+10.00 'MPE'
(LOOKING UPSTATION AT FRONT OF SIGN)

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA. 395+09.21±
EL. 887.48±

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ S-13-560

XX-XX SIGN NUMBERS (SEE PERMANENT SIGNING PLAN)

STANDOFF DIMENSION IS ASSUMED TO BE 2½", BUT IS A MAXIMUM OF 2 X ANCHOR ROD DIAMETER. SEE FOUNDATION DETAILS SHEEET AND SHOP DRAWINGS FOR MORE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-560

DRAWN BY SCL | PLANS CK'D. LJR

GENERAL LAYOUT
S-13-560

SHEET 3

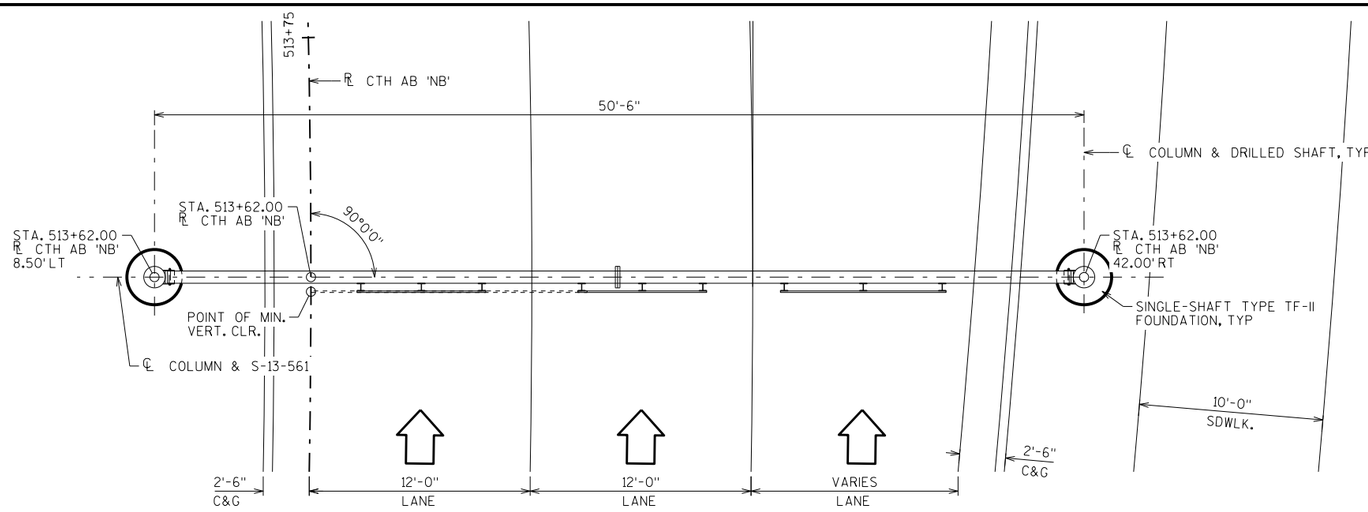
969

8

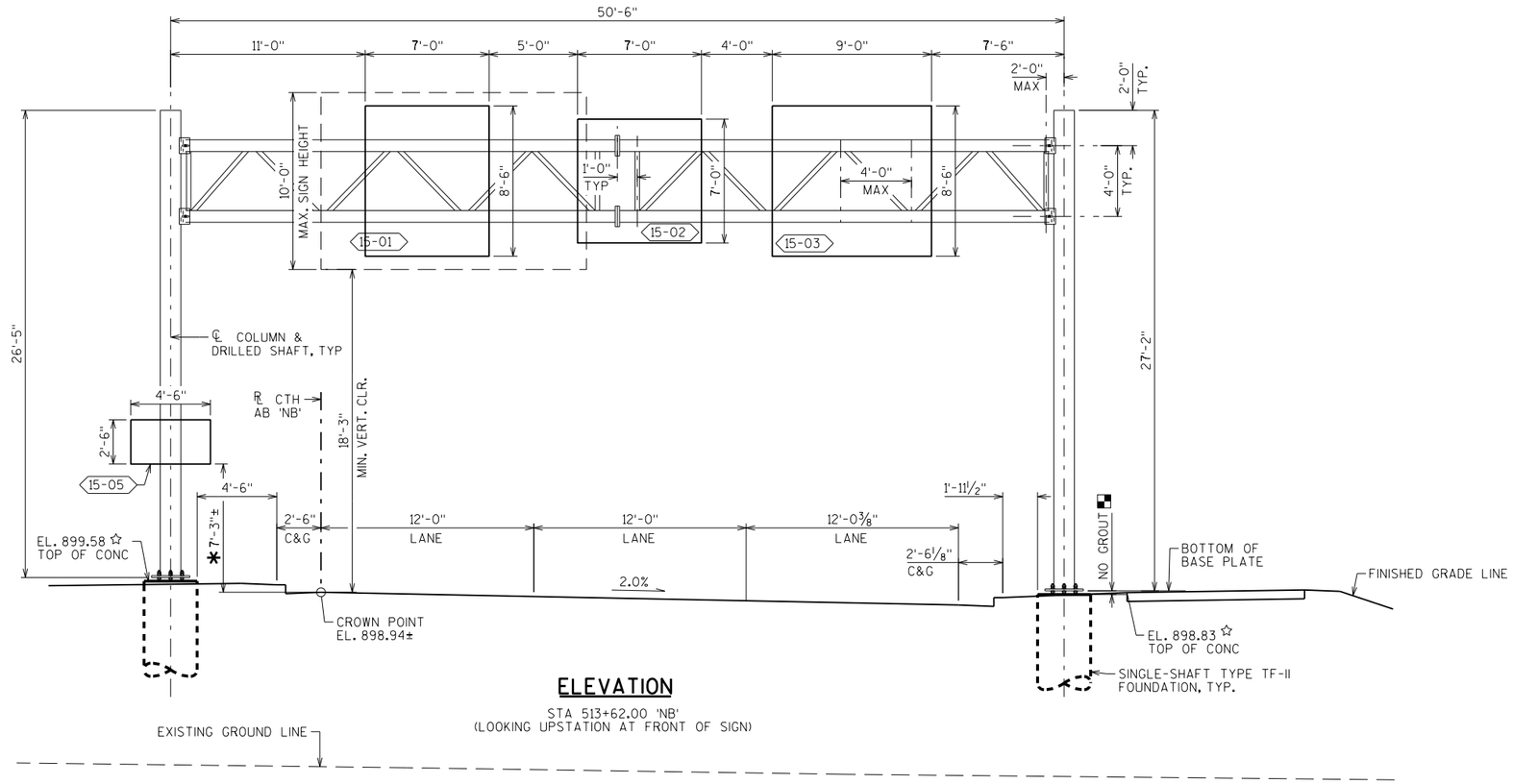
8

SCALE = 4.00

STATE PROJECT NUMBER
3080-01-75



PLAN



ELEVATION

STA 513+62.00 'NB'
(LOOKING UPSTATION AT FRONT OF SIGN)

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA. 513+61.21±
℄ CTH AB 'NB'
EL. 898.94±

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ S-13-561

XX-XX SIGN NUMBERS (SEE PERMANENT SIGNING PLAN)

* DIMENSION IS FROM EDGE OF LANE TO BOTTOM OF SIGN. THE ± TOLERANCE SHOWN IS 3".

■ STANDOFF DIMENSION IS ASSUMED TO BE 2½", BUT IS A MAXIMUM OF 2 X ANCHOR ROD DIAMETER. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-561

DRAWN BY SCL | PLANS CK'D. LJR

GENERAL LAYOUT
S-13-561

SHEET 4

970

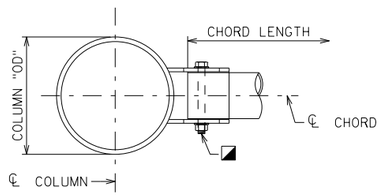
SCALE = 4.00

8

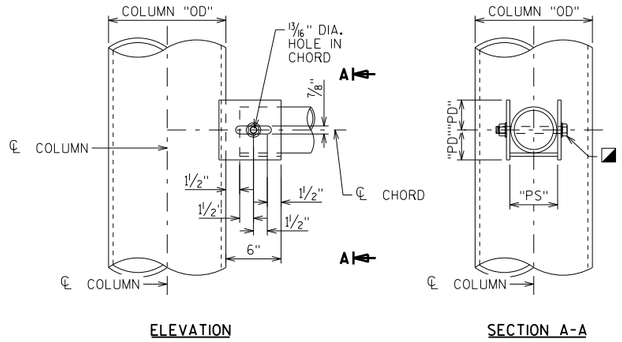
8

STATE PROJECT NUMBER

STANDARD



PLAN



ELEVATION

SECTION A-A

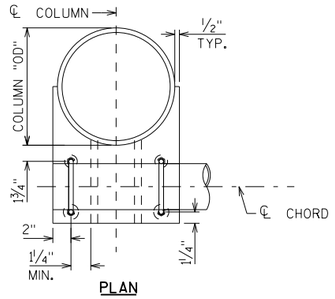
FULL SPAN SADDLE CONNECTION

PREFERRED

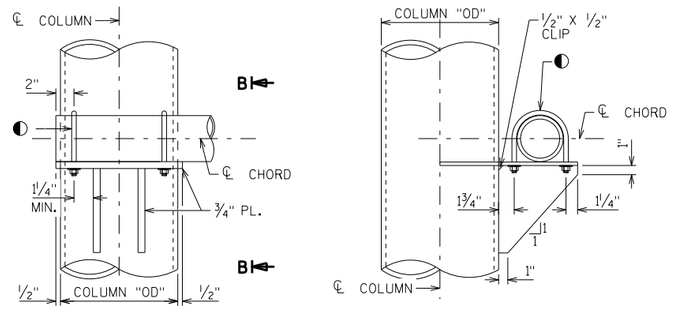
¾" GALVANIZED A325 OR A449 HEAVY HEX BOLT, NUT, WASHER

"PD" = (CHORD "OD")/2 + ¾"

"PS" = CHORD "OD" + 3/16"



PLAN



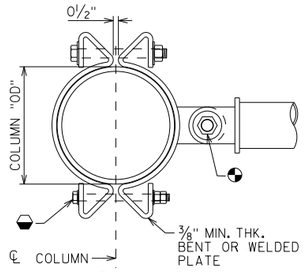
ELEVATION

SECTION B-B

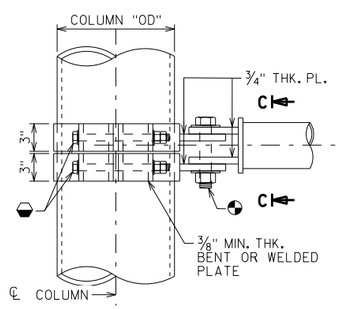
FULL SPAN STIFFENED BEARING CONNECTION

ALTERNATE 1

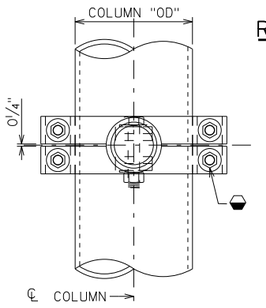
◐ (2) - ½" MIN. GALVANIZED U-BOLT, NUT, WASHER AND LOCK WASHER



PLAN



ELEVATION



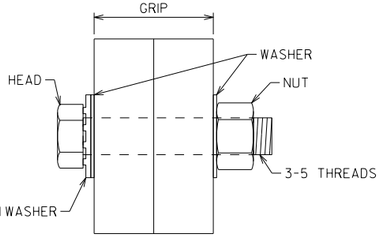
SECTION C-C

FULL SPAN CLAMP CONNECTION

ALTERNATE 2 - TAPERED COLUMNS ONLY

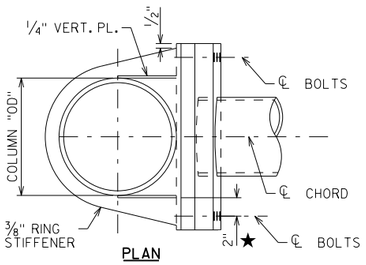
◔ 1¼" GALVANIZED A325 HEAVY HEX BOLT, NUT AND WASHER

⬣ 1" GALVANIZED A449 HEAVY HEX BOLT, NUT AND WASHER

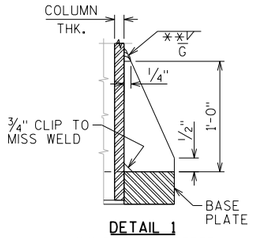


RECOMMENDED BOLT DETAIL WITH DTI

NUT IS THE TURNED ELEMENT

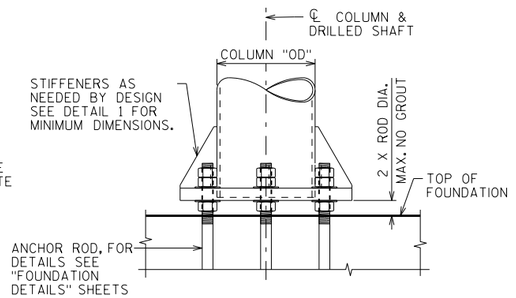


PLAN



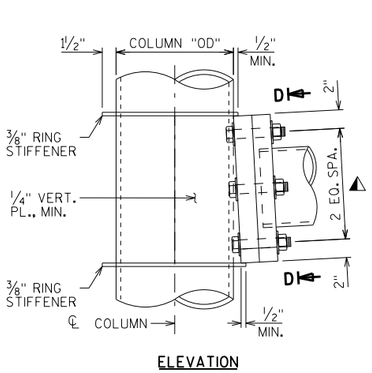
DETAIL 1

** SIZE AS NEEDED

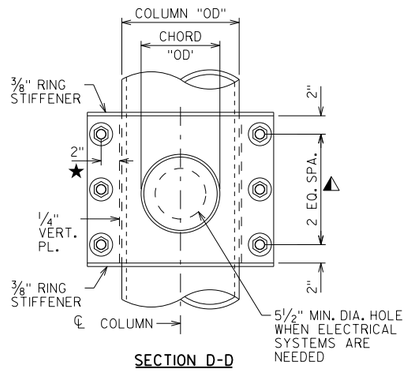


BASE PLATE & COLUMN DETAIL

LOOKING AT FRONT FACE OF STRUCTURE



ELEVATION

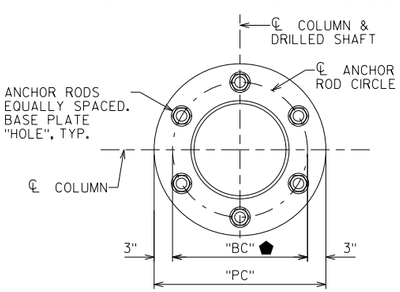


SECTION D-D

CANTILEVER POST TO CHORD CONNECTION

◭ MIN. CONNECTION = (6) - 1" GALVANIZED F3125 GRADE A325 BOLTS, NUT, WASHER AND DTI

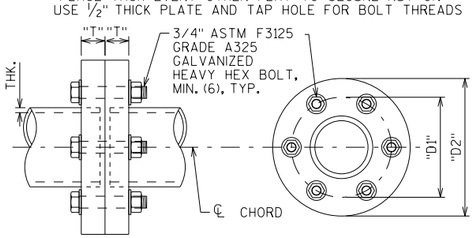
★ MIN. DIMENSION MEASURED FROM EXT. FACE OF VERT. PLATE



BASE PLATE

PLAN

⬟ "BC" = POLE OD + 6"

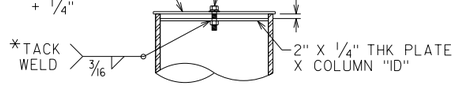


CHORD SPLICE DETAIL

"D1" = CHORD "OD" + 3"

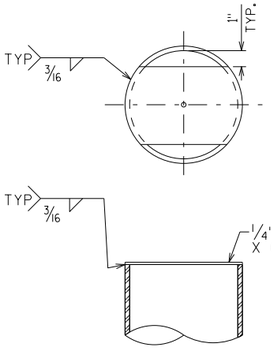
"D2" = CHORD "OD" + 6"

"T" = BY DESIGN



COLUMN/CHORD CAP DETAIL

* PLACE TACK EVERY OTHER FLAT TO SECURE NUT OR USE ½" THICK PLATE AND TAP HOLE FOR BOLT THREADS



CHORD CAP DETAIL

NOTES:

MINIMUM VALUES SHOWN

ALL CONNETIONS ARE TO BE DESIGNED FOR ACTUAL STRUCTURE LOADS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY: BOS | PLANS CK'D.: BOS

MONOTUBE & 2-CHORD TRUSS DETAILS 1

SHEET 1 OF IV

971

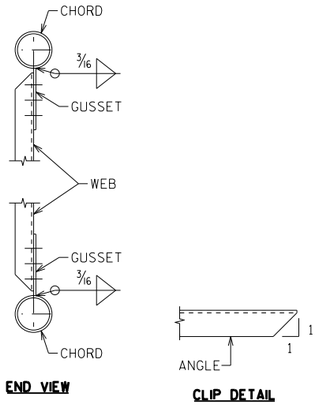
8

8

SCALE = 1.00

STATE PROJECT NUMBER

STANDARD

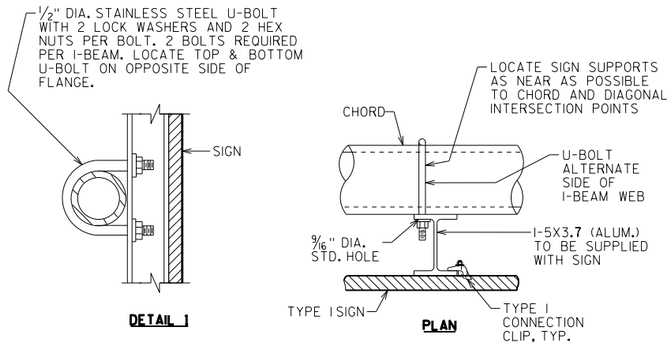


END VIEW

CLIP DETAIL

TRUSS CONNECTION DETAILS

BOLTED CONNECTIONS SHOWN, NUMBER OF BOLTS BY DESIGN
WELDED CONNECTIONS SIMILAR



DETAIL 1

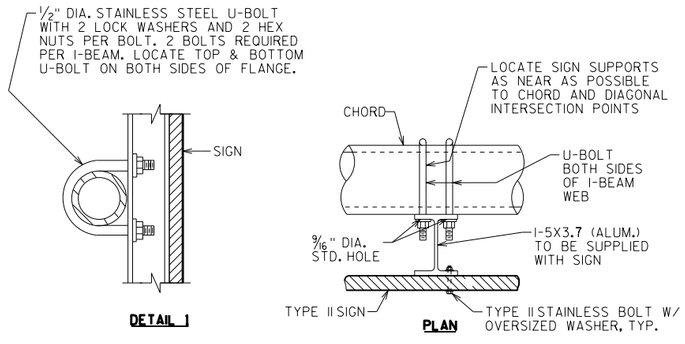
PLAN

2-CHORD TRUSS SIGN CONNECTION

SEE SIGN PLATE MANUAL A4-7A FOR DETAILS

ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH THE SIGN PANEL

HARDWARE TO BE SUPPLIED BY THE CONTRACTOR



DETAIL 1

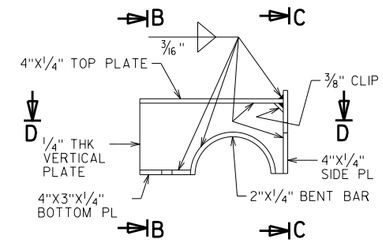
PLAN

MONOTUBE SIGN CONNECTION

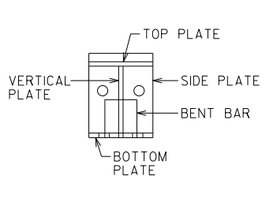
SEE SIGN PLATE MANUAL A4-7B FOR DETAILS

ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH THE SIGN PANEL

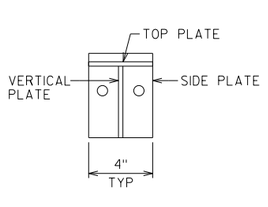
HARDWARE TO BE SUPPLIED BY THE CONTRACTOR



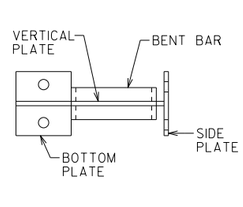
ELEVATION



SECTION B-B



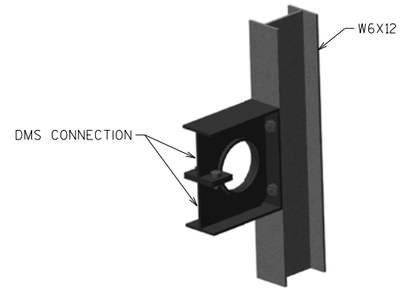
SECTION C-C



SECTION D-D

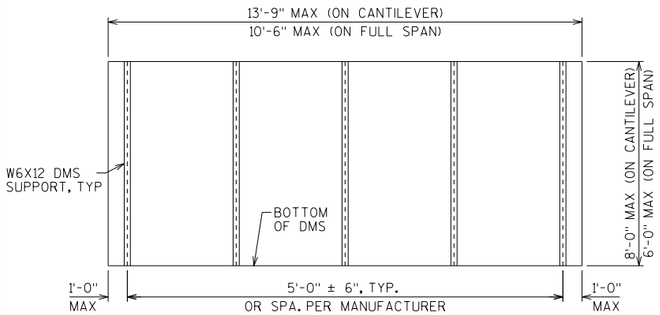
DMS WELDED PLATE CONNECTION DETAILS

TOP PLATE CLAMP SHOWN
BOTTOM PLATE CLAMP SIMILAR



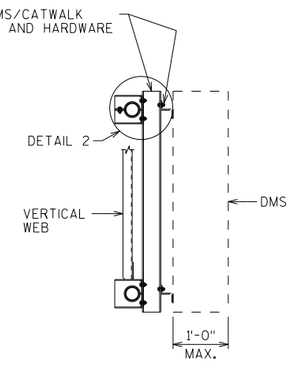
3-D VIEW DMS CONNECTION

CHORD NOT SHOWN FOR CLARITY



DMS MOUNTING POST SPACING DETAIL

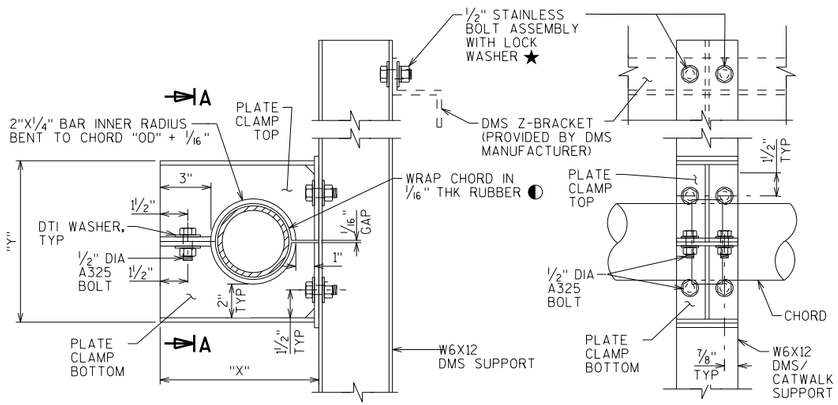
POST SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED.



SECTION THRU TRUSS

FOR DMS/CATWALK CONNECTION

★ W6X12 SUPPORTS AND HARDWARE ARE TO BE SUPPLIED BY THE CONTRACTOR. 1/2" STAINLESS BOLT, NUT, WASHER AND LOCK WASHER REQUIRED, 4 PER W6X12.



DETAIL 2

SECTION A-A

CHORD OUTER DIA	"X"	"Y"
"OD"	"OD"+4 13/16"	"OD"+5 1/16"

TYPICAL DMS CONNECTION

◐ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD SPEC 506.2.6.1

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MONOTUBE & 2-CHORD TRUSS DETAILS 2

SHEET 11 OF IV

972

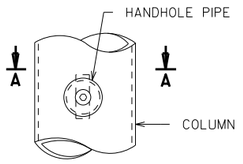
SCALE = 2.00

8

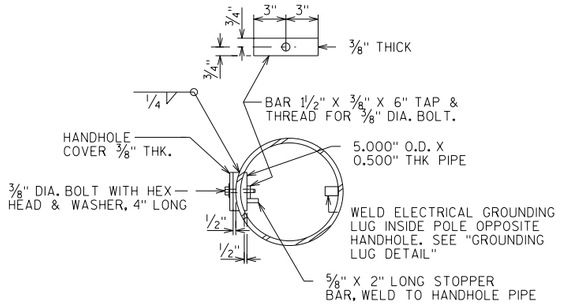
8

STATE PROJECT NUMBER

STANDARD



HANDHOLE DETAILS

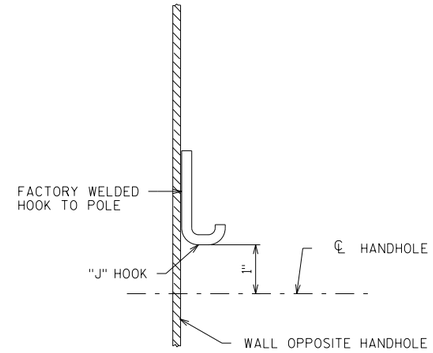


SECTION A-A

HANDHOLE NOTES

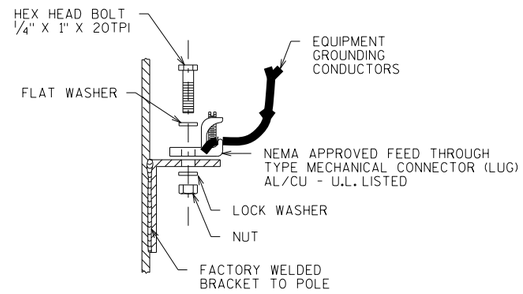
HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGION TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL PLAN DETAIL SHEETS.

UNLESS NOTED OTHERWISE, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER THE WISDOT STANDARD SPECIFICATIONS.



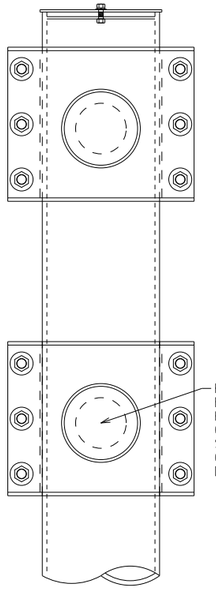
TYPICAL "J" HOOK LOCATION

THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.

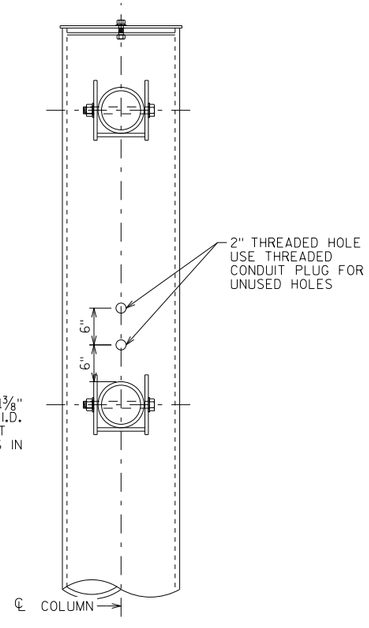


GROUNDING LUG DETAIL

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



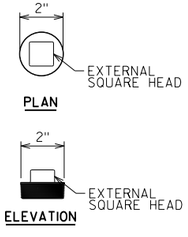
2-CHORD CANTILEVER



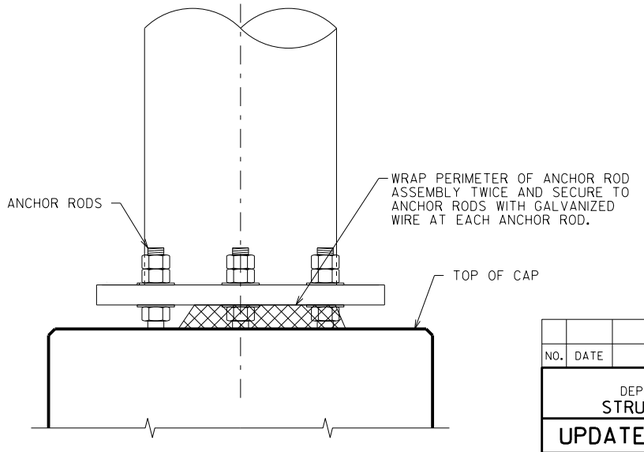
2-CHORD FULL SPAN

SADDLE CONNECTIONS SHOWN, BEARING AND CLAMP CONNECTIONS SIMILAR

CONDUIT HOLE LOCATIONS



CONDUIT PLUG DETAILS



RODENT SCREEN

(ONLY REQ'D. WHEN ELECTRICAL DEVICES ARE INSTALLED)

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STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

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MONOTUBE & 2-CHORD TRUSS ELECTRICAL DETAILS

SHEET III OF IV

973

SCALE = 1.00

8

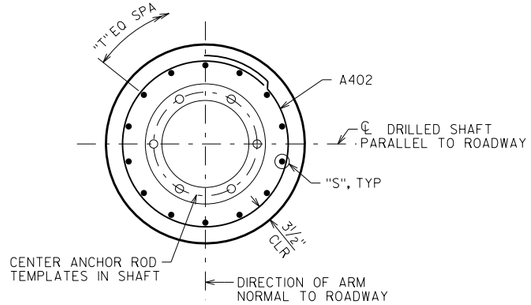
8

STATE PROJECT NUMBER

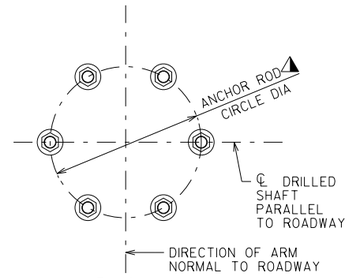
STANDARD

FOUNDATION & REINFORCING DATA

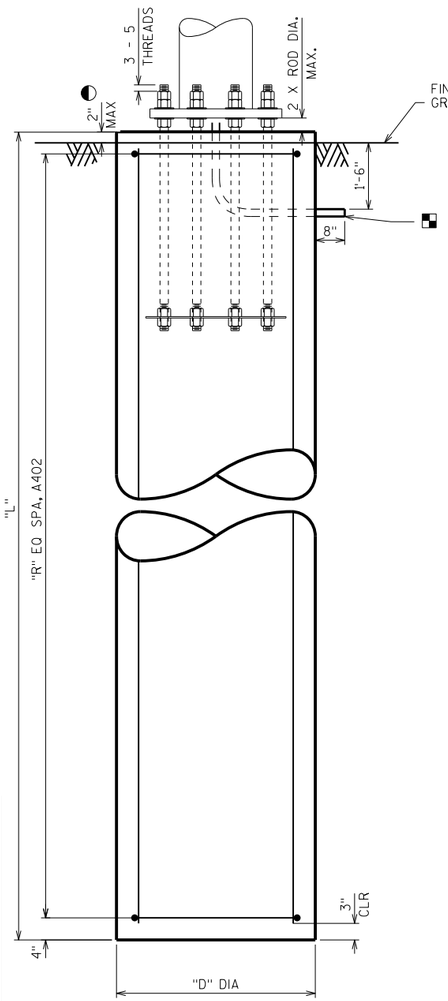
STANDARD FOUNDATION TYPE	SHAFT VARIABLES					
	"D"	"L"	"R"	"S"	"T"	"BC" MAX
MFI	2'-0"	12'-0"	12	A801	6	12"
MFII	2'-6"	13'-0"	13	A801	10	17"
MCI/MCII/TFI	2'-6"	17'-0"	17	A801	10	17"
TCI	3'-0"	18'-0"	18	A801	14	22"
TFII	3'-0"	20'-0"	20	A801	14	22"
MCIII/TCII/TFIII	3'-6"	18'-0"	18	A901	14	28"
MCIV/TFIV	3'-6"	23'-0"	23	A901	14	28"
TCIII	4'-0"	23'-0"	23	A1001	14	34"
TCIV	4'-0"	28'-0"	28	A1001	14	34"



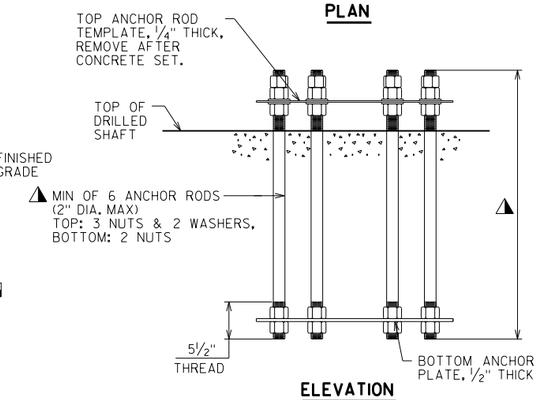
PLAN



PLAN



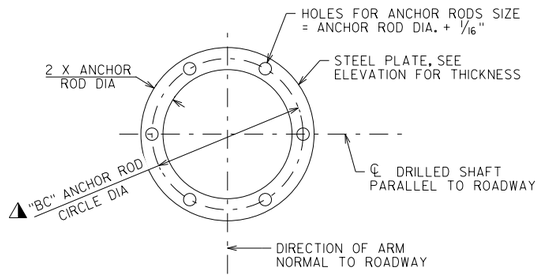
ELEVATION



ELEVATION

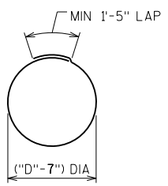
ANCHOR ROD ASSEMBLY DETAILS

△ ANCHOR ROD NUMBER, DIAMETER, LENGTH & ORIENTATION AS SHOWN ON FABRICATION DRAWING.



ANCHOR PLATE/TOP TEMPLATE

PLAN



A402

NOTE:
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BILL OF BARS - STANDARD FOUNDATIONS

STANDARD FOUNDATION MFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		6	11'-7"			DRILLED SHAFT - VERTICAL
A402		13	5'-10"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	12'-7"			DRILLED SHAFT - VERTICAL
A402		14	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCI/MCII/TFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	16'-7"			DRILLED SHAFT - VERTICAL
A402		18	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	19'-7"			DRILLED SHAFT - VERTICAL
A402		21	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIII/TCII/TFIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIV/TFIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	12'-2"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	27'-7"			DRILLED SHAFT - VERTICAL
A402		29	12'-2"	X		DRILLED SHAFT - HORIZONTAL

ESTIMATED QUANTITIES - FOUNDATIONS

STANDARD FOUNDATION TYPE	CONCRETE MASONRY (CY)	STEEL REINFORCEMENT HS (LBS)	FOUNDATION DRILLING (LF)				
			24" DIA.	30" DIA.	36" DIA.	42" DIA.	48" DIA.
MFI	2	240	12				
MFII	3	410		13			
MCI/MCII/TFI	4	540		17			
TCI	5	780			18		
TFII	6	860			20		
MCIII/TCII/TFIII	7	970				18	
MCIV/TFIV	9	1,250				23	
TCIII	11	1,560					23
TCIV	13	1,900					28

✳✳ QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON STANDARD STRUCTURE DIMENSIONS

NOTES

CENTER ANCHOR ROD ASSEMBLY ON DRILLED SHAFT AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

◐ FOR OVERHEAD SIGN STRUCTURES THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE SHAFT SHALL BE POURED FLUSH WITH THE FINISHED GRADE.

◪ 2" DIA NONMETALLIC CONDUITS, INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO THE DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NO.	DATE	REVISION	BY

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MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

SHEET IV OF IV

974

SCALE = 1.67

8

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STATE PROJECT NUMBER

3080-01-76

DESIGN DATA

CONTRACTOR DESIGNED OVERHEAD SIGN STRUCTURES SHALL BE DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL.

STANDARD FOUNDATIONS DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD: WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD: 3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS.
WIND PRESSURE: 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1:	1.00	0.00
LOAD CASE 2:	0.00	1.00
LOAD CASE 3:	0.75	0.75

LOAD COMBINATIONS	
STRENGTH I:	1.25 DC + 1.6 LL
EXTREME I (MAX DC):	1.1 DC + 1.0 W + 1.0 ICE
EXTREME I (MIN DC):	0.9 DC + 1.0 W
SERVICE I:	1.0 DC + 1.0 W
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION)
	1.0 TRG (TRUCK INDUCED GUST VIBRATION)
	1.0 GVW (GALLOPING - CANTILEVER ONLY)

MATERIAL PROPERTIES

CONCRETE MASONRY ---------- f'c = 3,500 psi

HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60 ---------- fy = 60,000 psi

HIGH STRENGTH BOLTS - A325 ---------- fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ---------- fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE FOR DESIGN IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE. ACTUAL WATER LEVEL AT SITE MAY VARY. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

TEMPORARY FULL-DEPTH CASING IS LIKELY TO BE REQUIRED DUE TO THE PRESENCE OF SHALLOW WATER AT S-13-570.

STRUCTURE DATA

SIGN STR	ACTUAL SIGN AREA	ACTUAL SIGN DEPTH	STANDARD TYPE
S-13-562	126.5 SF	7'-0"	TC-IV
S-13-564	129.5 SF	7'-0"	TC-IV
S-13-570	130.0 SF	7'-0"	TC-IV

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE TRUSS OR MONOTUBE BID ITEMS FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.

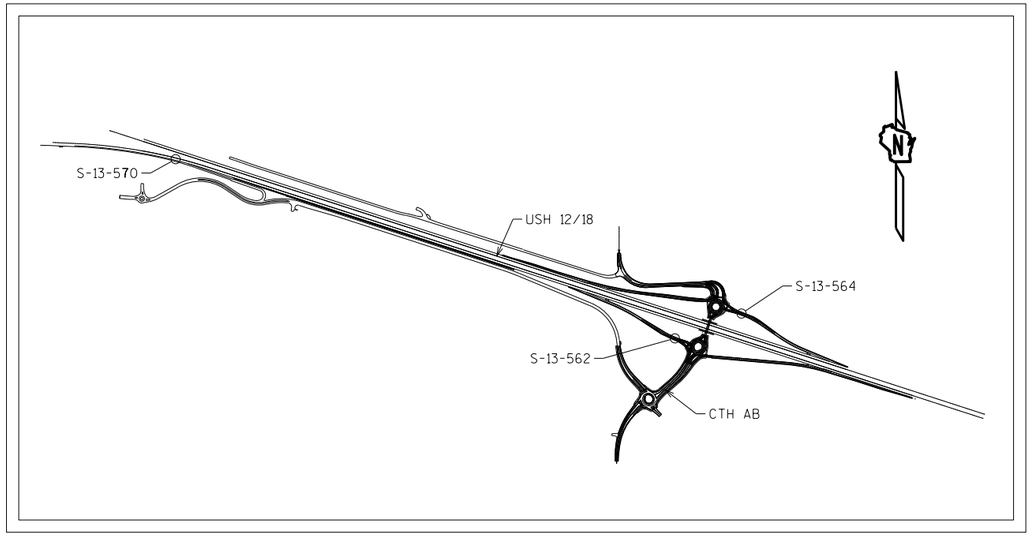
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "DRILLING SHAFT (DIA.)".

TRAFFIC VOLUME

USH 12/18 EB RAMP A
ADT = 4,100 (2043)
R.D.S. = 40 M.P.H.

USH 12/18 WB RAMP C
ADT = 3,100 (2043)
R.D.S. = 40 M.P.H.

USH 12/18 EB RAMP E
ADT = 7,275 (2043)
R.D.S. = 50 M.P.H.



LOCATION MAP

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-13-562
3. GENERAL LAYOUT S-13-564
4. GENERAL LAYOUT S-13-570

LIST OF OSS STANDARD DESIGN DRAWINGS

5. I. MONOTUBE & 2-CHORD TRUSS DETAILS 1
6. II. MONOTUBE & 2-CHORD TRUSS DETAILS 2
7. III. MONOTUBE & 2-CHORD TRUSS ELECTRICAL DETAILS
8. IV. MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEM	UNIT	S-13-562	S-13-564	S-13-570
531.2048	DRILLING SHAFT 48-INCH	LF	28	28	28
531.5340	FOUNDATION SINGLE-SHAFT TYPE TC-IV (S-13-562)	EA	1		
531.5340	FOUNDATION SINGLE-SHAFT TYPE TC-IV (S-13-564)	EA		1	
531.5340	FOUNDATION SINGLE-SHAFT TYPE TC-IV (S-13-570)	EA			1
532.5340	TRUSS CANTILEVER 2-CHORD TYPE IV (S-13-562)	EA	1		
532.5340	TRUSS CANTILEVER 2-CHORD TYPE IV (S-13-564)	EA		1	
532.5340	TRUSS CANTILEVER 2-CHORD TYPE IV (S-13-570)	EA			1

STRUCTURE DESIGN CONTACTS:
SHANNON LIPE (608) 266-2369
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED DMB 03/14/22
CHIEF STRUCTURES DESIGN ENGINEER DATE

MONOTUBE AND 2-CHORD TRUSS PLANS

USH 12/18, CTH AB OVERPASS

COUNTY: DANE | TOWN: COTTAGE/BLOOMING GROVE

DESIGN SPEC.: AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
SCL	LJR	SCL	LJR

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 8

975

I.D. 3080-01-05G,H,L DATE: DEC 2021

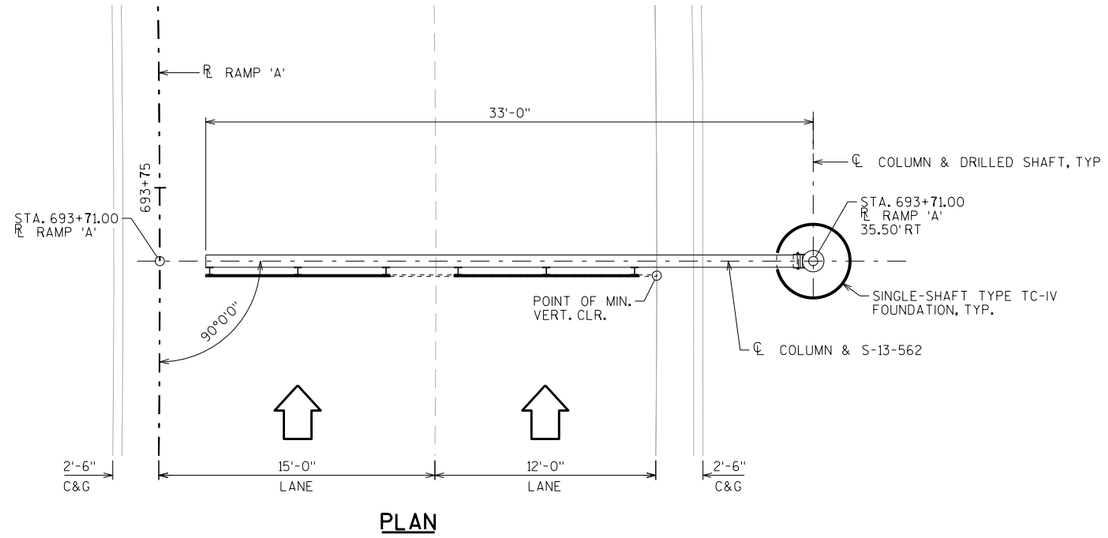
SCALE = 0.50

8

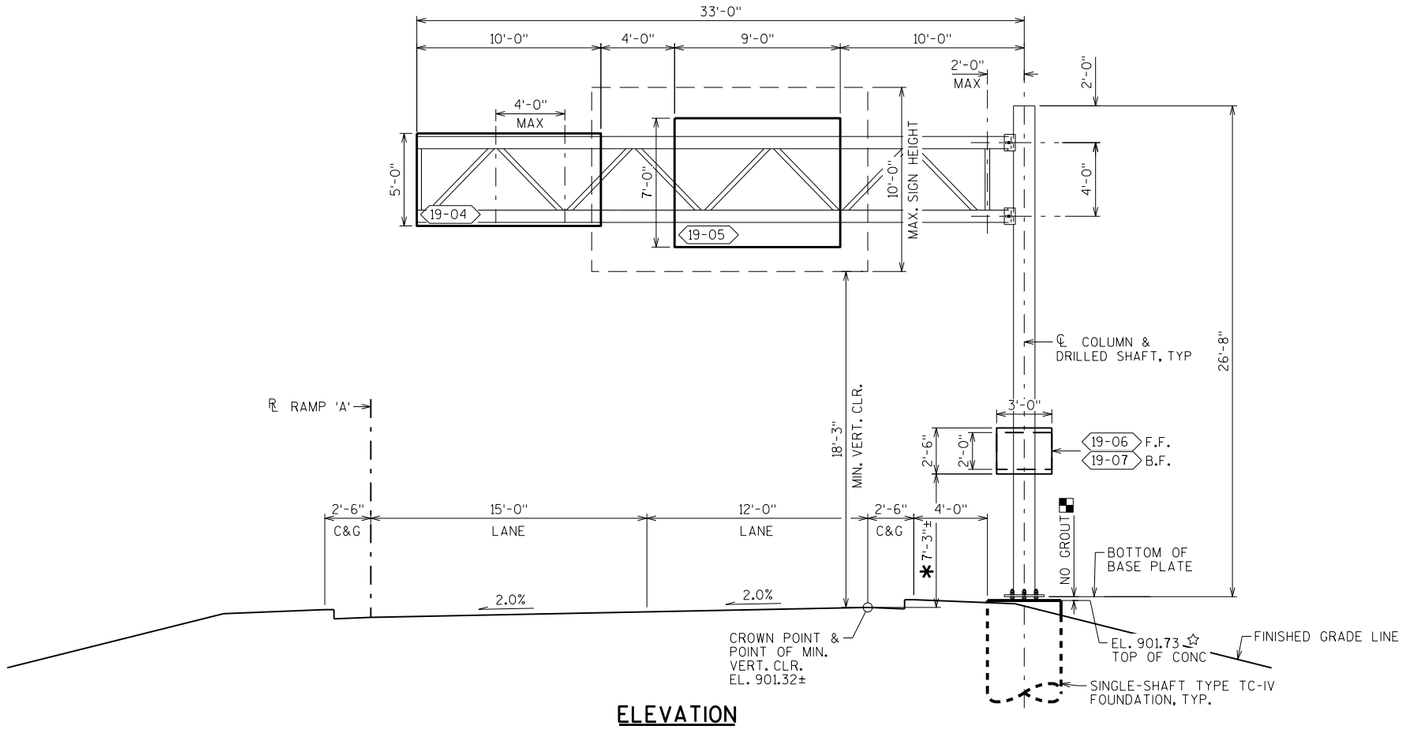
8

STATE PROJECT NUMBER

3080-01-76



PLAN



ELEVATION

STA 693+71.00 'A'
(LOOKING UPSTATION AT FRONT OF SIGN)

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA. 693+70.23±
OFFSET 27.0' RT
℄ RAMP 'A'
EL. 901.32±

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ S-13-562

XX-XX SIGN NUMBERS (SEE PERMANENT SIGNING PLAN)

* DIMENSION IS FROM EDGE OF LANE TO BOTTOM OF SIGN. THE ± TOLERANCE SHOWN IS 3".

■ STANDOFF DIMENSION IS ASSUMED TO BE 2½", BUT IS A MAXIMUM OF 2 X ANCHOR ROD DIAMETER. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-562

DRAWN BY SCL | PLANS CK'D. LJR

GENERAL LAYOUT
S-13-562

SHEET 2

976

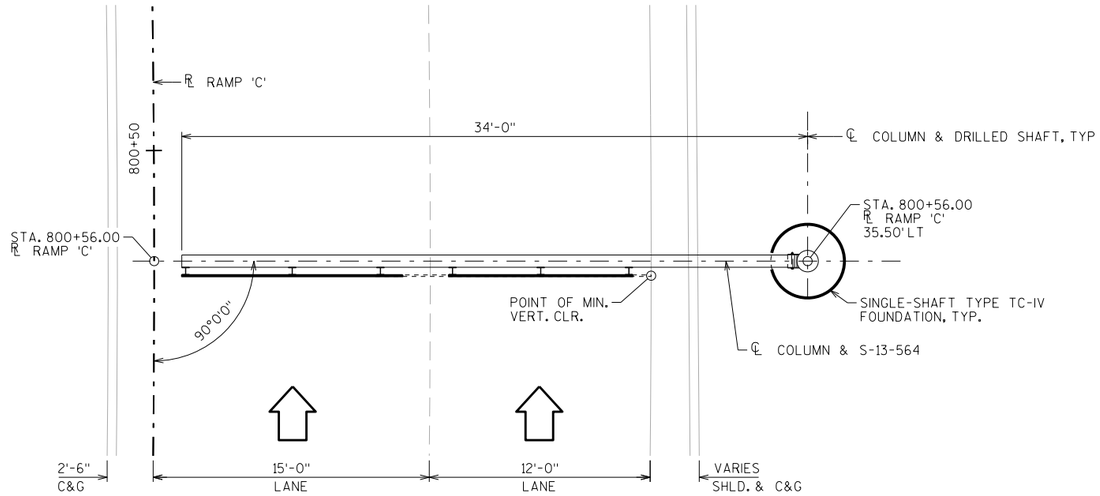
SCALE = 4.00

8

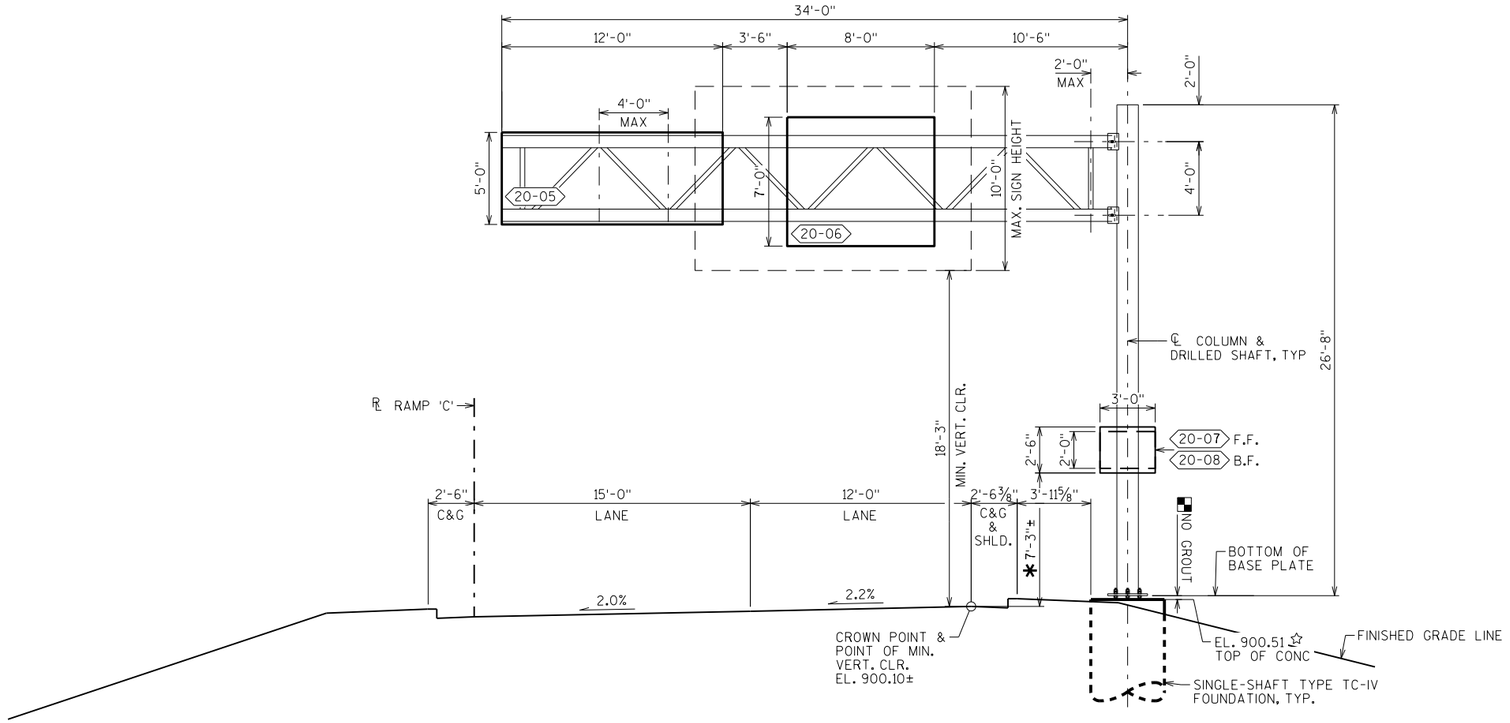
8

STATE PROJECT NUMBER

3080-01-76



PLAN



ELEVATION

STA 800+56.00 'C'
(LOOKING DOWNSTATION AT FRONT OF SIGN)

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA. 800+56.77±
OFFSET 27.0' LT
℄ RAMP 'C'
EL. 900.10±

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ S-13-564

〈XX-XX〉 SIGN NUMBERS (SEE PERMANENT SIGNING PLAN)

✱ DIMENSION IS FROM EDGE OF LANE TO BOTTOM OF SIGN. THE ± TOLERANCE SHOWN IS 3".

▪ STANDOFF DIMENSION IS ASSUMED TO BE 2½", BUT IS A MAXIMUM OF 2 X ANCHOR ROD DIAMETER. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-564

DRAWN BY SCL | PLANS CK'D. LJR

GENERAL LAYOUT
S-13-564

SHEET 3

977

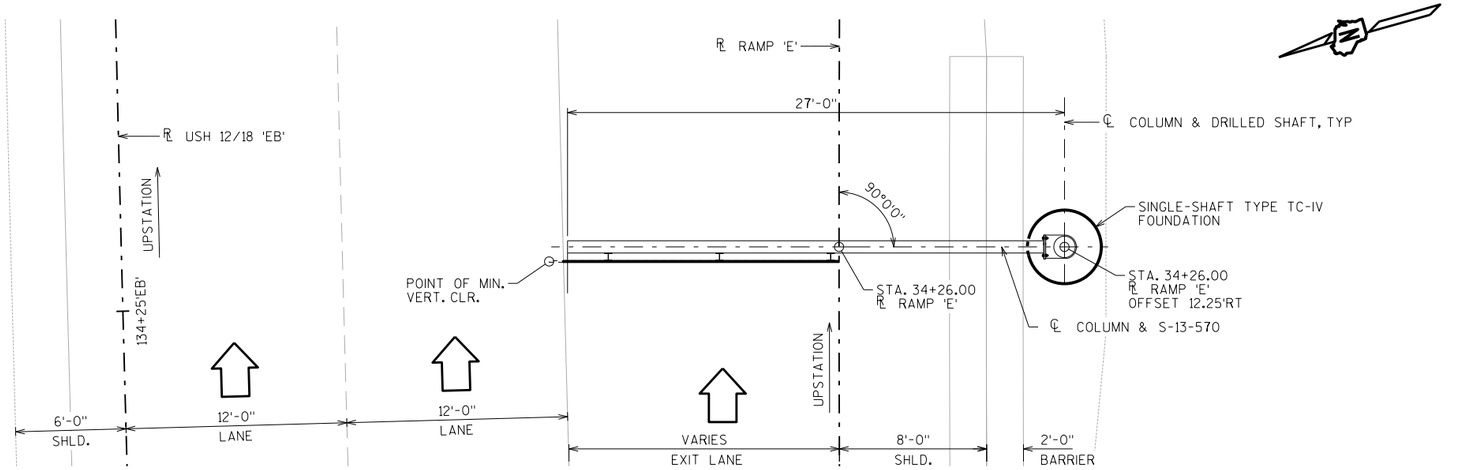
SCALE = 4.00

8

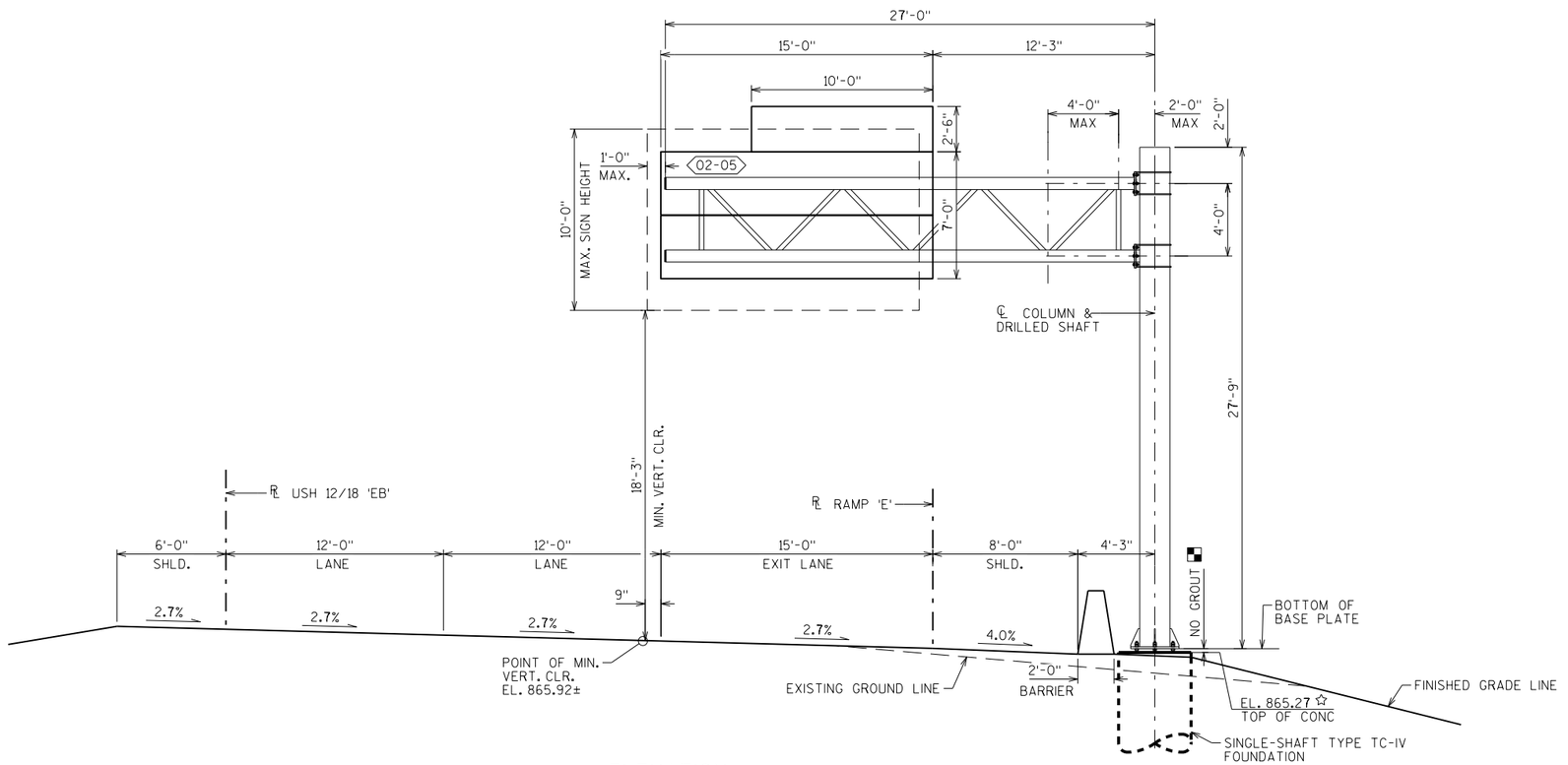
8

STATE PROJECT NUMBER

3080-01-76



PLAN



ELEVATION

STA 34+26.00'E'
(LOOKING UPSTATION AT FRONT OF SIGN)

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA. 34+25.21±
℄ RAMP 'E'
OFFSET 15.75'LT
EL. 865.92±

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ S-13-570

⟨XX-XX⟩ SIGN NUMBERS (SEE PERMANENT SIGNING PLAN)

■ STANDOFF DIMENSION IS ASSUMED TO BE 2½", BUT IS A MAXIMUM OF 2 X ANCHOR ROD DIAMETER. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-570

DRAWN BY SCL | PLANS CK'D. LJR

GENERAL LAYOUT
S-13-570

SHEET 4

978

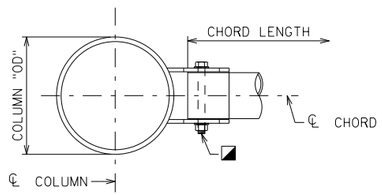
8

8

SCALE = 4.00

STATE PROJECT NUMBER

STANDARD



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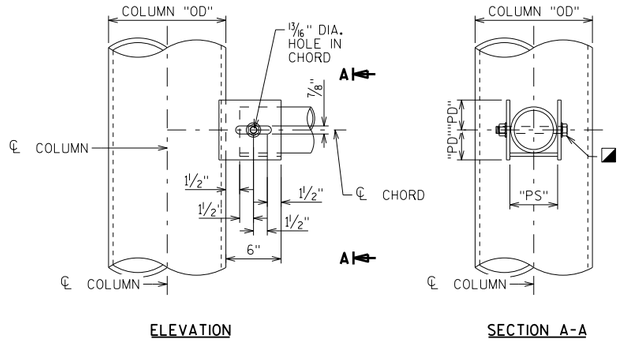


ELEVATION

SECTION A-A

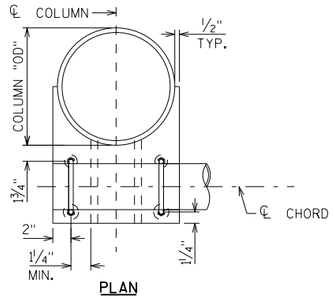
FULL SPAN SADDLE CONNECTION

PREFERRED

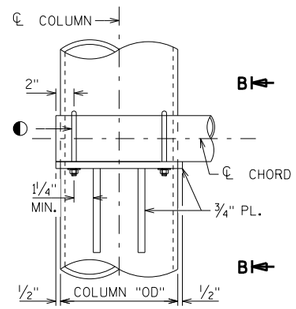
¾" GALVANIZED A325 OR A449 HEAVY HEX BOLT, NUT, WASHER

"PD" = (CHORD "OD")/2 + ¾"

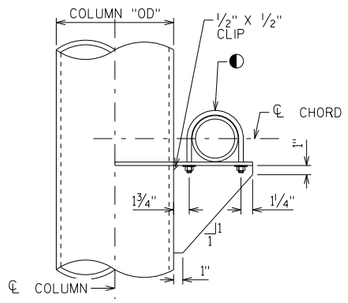
"PS" = CHORD "OD" + 3/16"



PLAN



ELEVATION

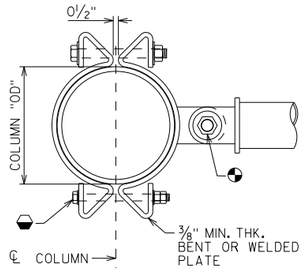


SECTION B-B

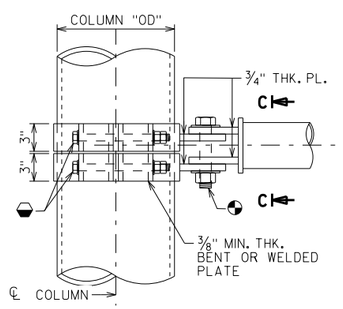
FULL SPAN STIFFENED BEARING CONNECTION

ALTERNATE 1

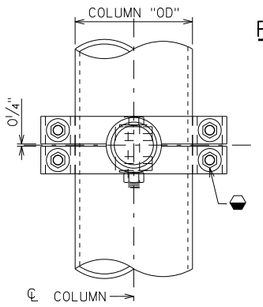
◐ (2) - ½" MIN. GALVANIZED U-BOLT, NUT, WASHER AND LOCK WASHER



PLAN



ELEVATION



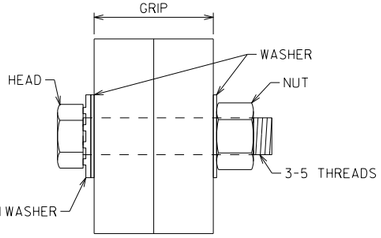
SECTION C-C

FULL SPAN CLAMP CONNECTION

ALTERNATE 2 - TAPERED COLUMNS ONLY

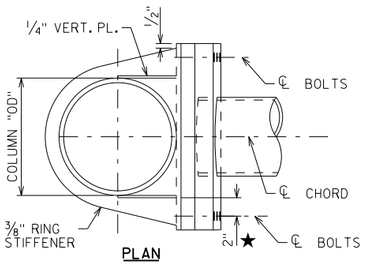
◔ 1¼" GALVANIZED A325 HEAVY HEX BOLT, NUT AND WASHER

⬣ 1" GALVANIZED A449 HEAVY HEX BOLT, NUT AND WASHER

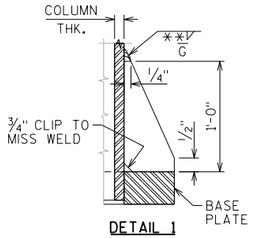


RECOMMENDED BOLT DETAIL WITH DTI

NUT IS THE TURNED ELEMENT

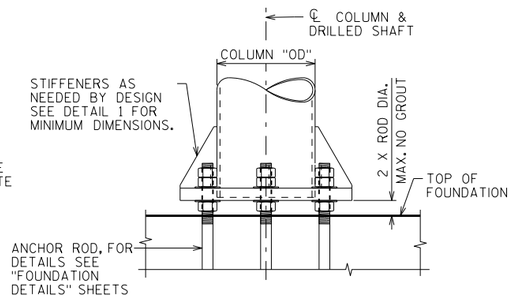


PLAN



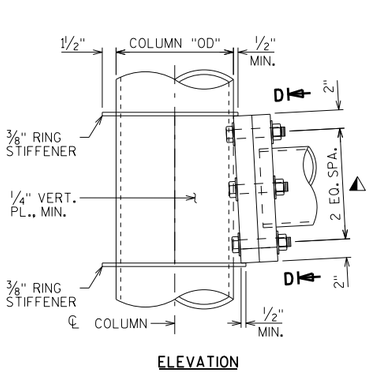
DETAIL 1

** SIZE AS NEEDED

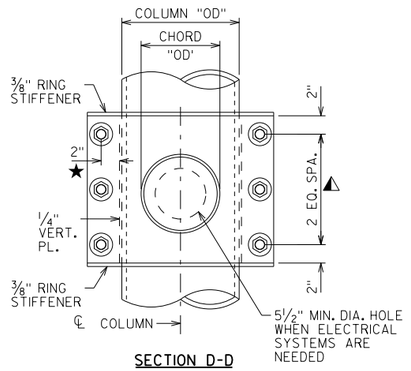


BASE PLATE & COLUMN DETAIL

LOOKING AT FRONT FACE OF STRUCTURE



ELEVATION

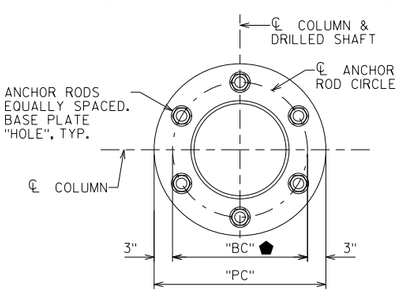


SECTION D-D

CANTILEVER POST TO CHORD CONNECTION

◭ MIN. CONNECTION = (6) - 1" GALVANIZED F3125 GRADE A325 BOLTS, NUT, WASHER AND DTI

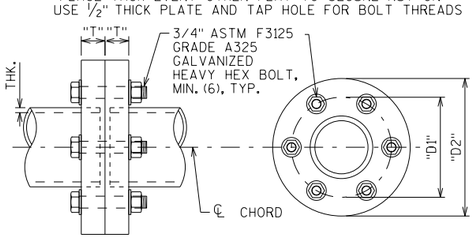
★ MIN. DIMENSION MEASURED FROM EXT. FACE OF VERT. PLATE



BASE PLATE

PLAN

⬟ "BC" = POLE OD + 6"

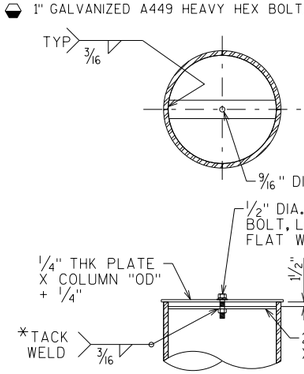


CHORD SPLICE DETAIL

"D1" = CHORD "OD" + 3"

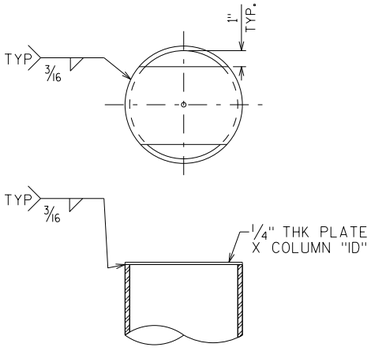
"D2" = CHORD "OD" + 6"

"T" = BY DESIGN



COLUMN/CHORD CAP DETAIL

* PLACE TACK EVERY OTHER FLAT TO SECURE NUT OR USE ½" THICK PLATE AND TAP HOLE FOR BOLT THREADS



CHORD CAP DETAIL

NOTES:

MINIMUM VALUES SHOWN

ALL CONNETIONS ARE TO BE DESIGNED FOR ACTUAL STRUCTURE LOADS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

MONOTUBE & 2-CHORD TRUSS DETAILS 1

SHEET 1 OF IV

979

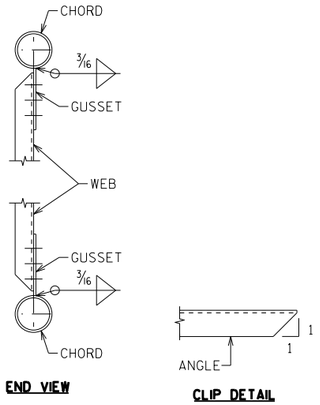
8

8

SCALE = 1.00

STATE PROJECT NUMBER

STANDARD

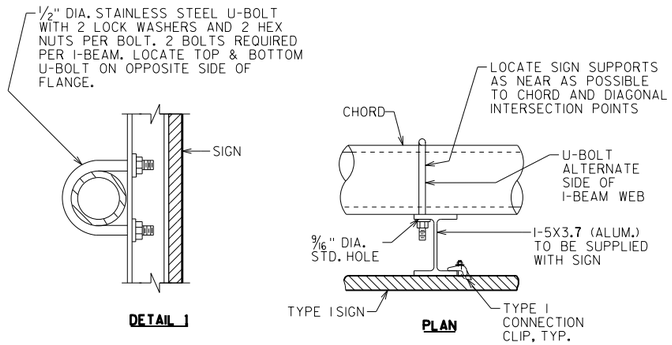


END VIEW

CLIP DETAIL

TRUSS CONNECTION DETAILS

BOLTED CONNECTIONS SHOWN, NUMBER OF BOLTS BY DESIGN
WELDED CONNECTIONS SIMILAR



DETAIL 1

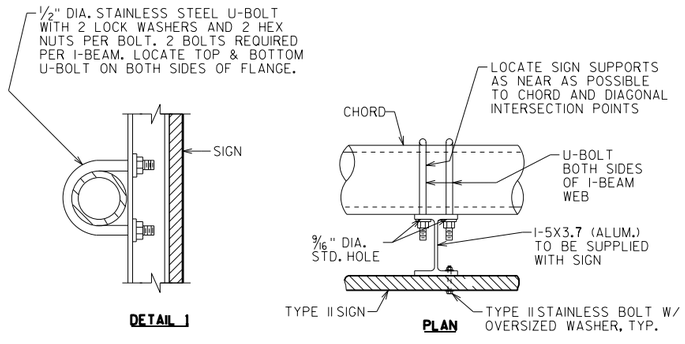
PLAN

2-CHORD TRUSS SIGN CONNECTION

SEE SIGN PLATE MANUAL A4-7A FOR DETAILS

ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH THE SIGN PANEL

HARDWARE TO BE SUPPLIED BY THE CONTRACTOR



DETAIL 1

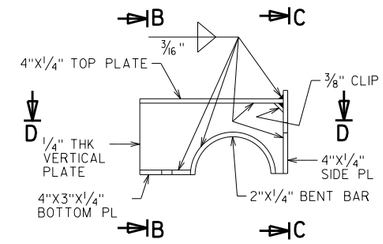
PLAN

MONOTUBE SIGN CONNECTION

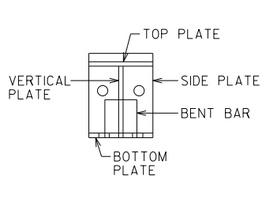
SEE SIGN PLATE MANUAL A4-7B FOR DETAILS

ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH THE SIGN PANEL

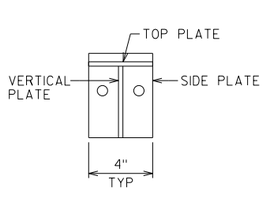
HARDWARE TO BE SUPPLIED BY THE CONTRACTOR



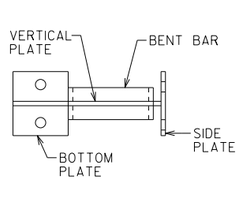
ELEVATION



SECTION B-B



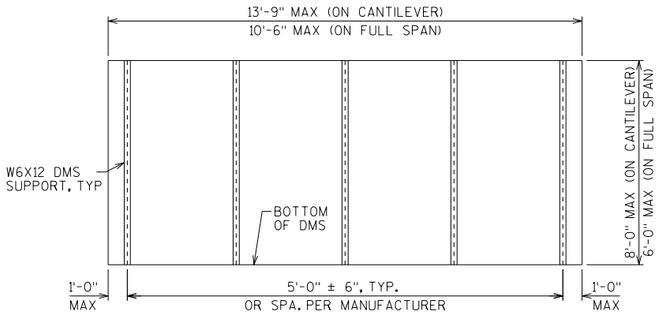
SECTION C-C



SECTION D-D

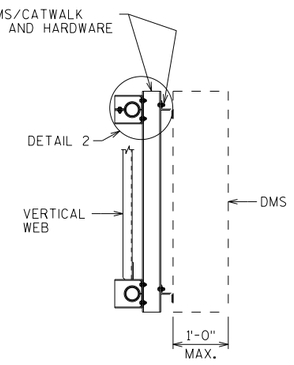
DMS WELDED PLATE CONNECTION DETAILS

TOP PLATE CLAMP SHOWN
BOTTOM PLATE CLAMP SIMILAR



DMS MOUNTING POST SPACING DETAIL

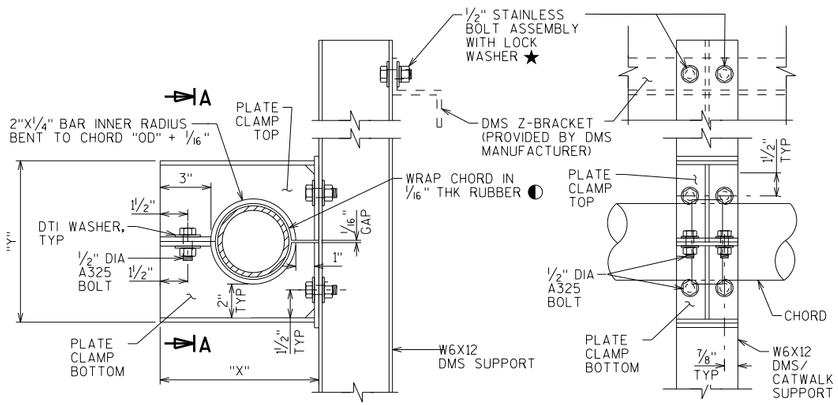
POST SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED.



SECTION THRU TRUSS

FOR DMS/CATWALK CONNECTION

★ W6X12 SUPPORTS AND HARDWARE ARE TO BE SUPPLIED BY THE CONTRACTOR. 1/2" STAINLESS BOLT, NUT, WASHER AND LOCK WASHER REQUIRED, 4 PER W6X12.



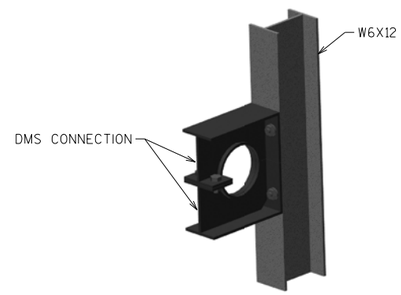
DETAIL 2

SECTION A-A

CHORD OUTER DIA	"X"	"Y"
"OD"	"OD"+4 13/16"	"OD"+5 1/16"

TYPICAL DMS CONNECTION

◐ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD SPEC 506.2.6.1



3-D VIEW DMS CONNECTION

CHORD NOT SHOWN FOR CLARITY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: APRIL 2021

DRAWN BY BOS | PLANS CK'D. BOS

MONOTUBE & 2-CHORD TRUSS DETAILS 2

SHEET 11 OF IV

980

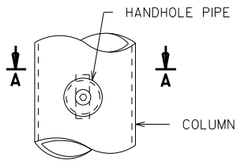
SCALE = 2.00

8

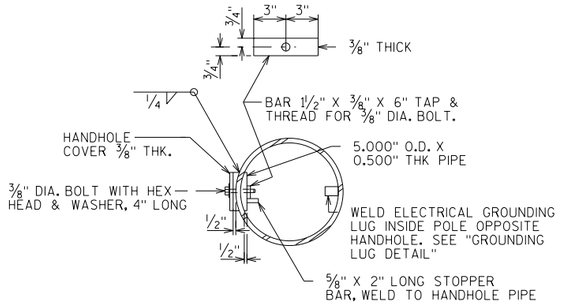
8

STATE PROJECT NUMBER

STANDARD



HANDHOLE DETAILS

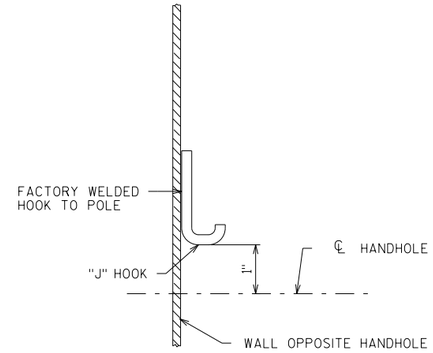


SECTION A-A

HANDHOLE NOTES

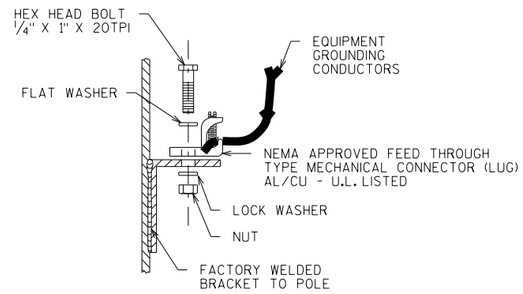
HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGION TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL PLAN DETAIL SHEETS.

UNLESS NOTED OTHERWISE, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER THE WISDOT STANDARD SPECIFICATIONS.



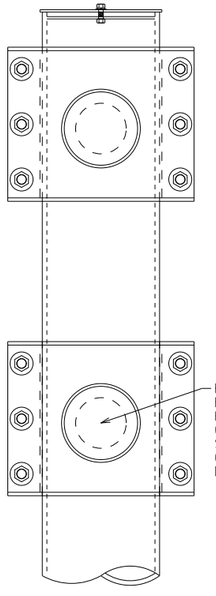
TYPICAL "J" HOOK LOCATION

THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.

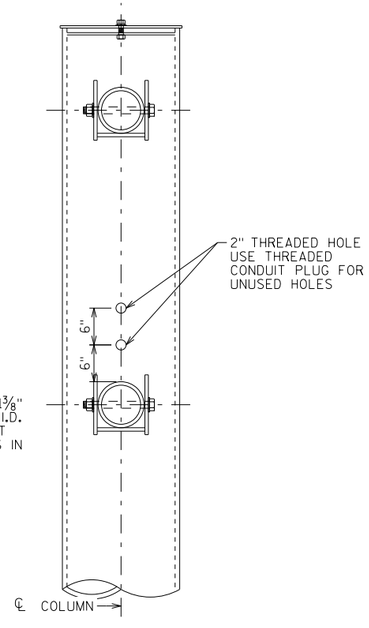


GROUNDING LUG DETAIL

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



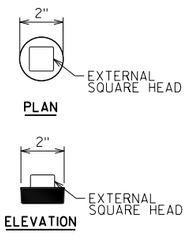
2-CHORD CANTILEVER



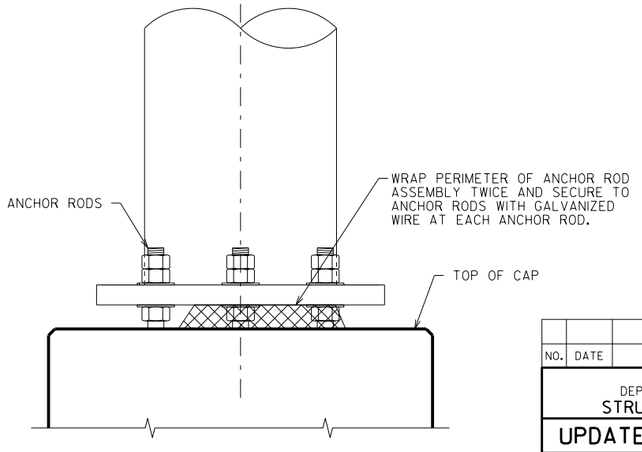
2-CHORD FULL SPAN

SADDLE CONNECTIONS SHOWN, BEARING AND CLAMP CONNECTIONS SIMILAR

CONDUIT HOLE LOCATIONS



CONDUIT PLUG DETAILS



RODENT SCREEN

(ONLY REQ'D. WHEN ELECTRICAL DEVICES ARE INSTALLED)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

MONOTUBE & 2-CHORD TRUSS ELECTRICAL DETAILS

SHEET III OF IV

981

SCALE = 1.00

8

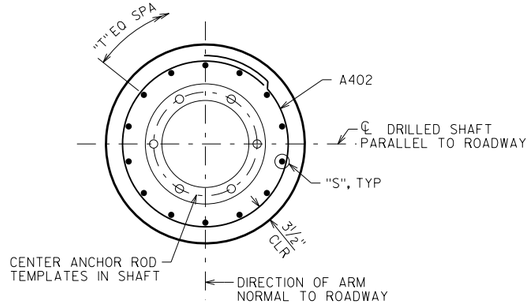
8

STATE PROJECT NUMBER

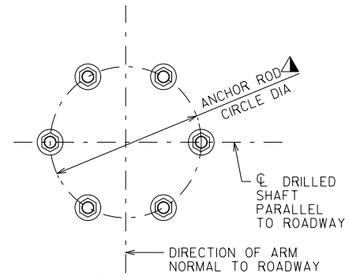
STANDARD

FOUNDATION & REINFORCING DATA

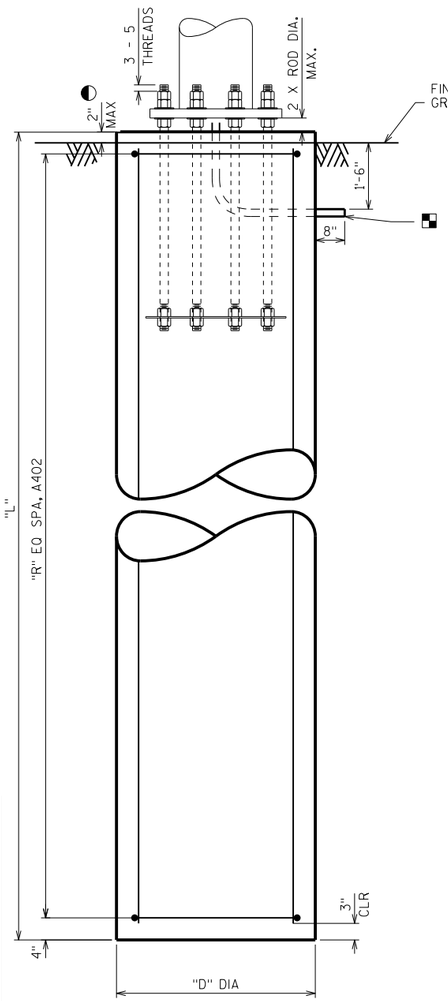
STANDARD FOUNDATION TYPE	SHAFT VARIABLES					
	"D"	"L"	"R"	"S"	"T"	"BC" MAX
MFI	2'-0"	12'-0"	12	A801	6	12"
MFII	2'-6"	13'-0"	13	A801	10	17"
MCI/MCII/TFI	2'-6"	17'-0"	17	A801	10	17"
TCI	3'-0"	18'-0"	18	A801	14	22"
TFII	3'-0"	20'-0"	20	A801	14	22"
MCIII/TCII/TFIII	3'-6"	18'-0"	18	A901	14	28"
MCIV/TFIV	3'-6"	23'-0"	23	A901	14	28"
TCIII	4'-0"	23'-0"	23	A1001	14	34"
TCIV	4'-0"	28'-0"	28	A1001	14	34"



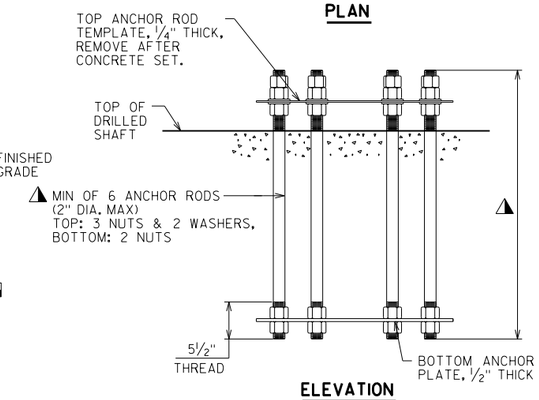
PLAN



PLAN



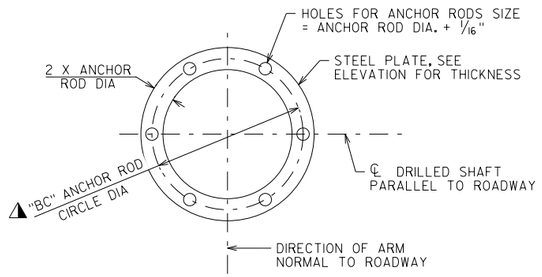
ELEVATION



ELEVATION

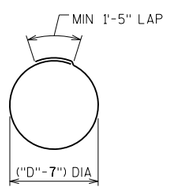
ANCHOR ROD ASSEMBLY DETAILS

⚠ ANCHOR ROD NUMBER, DIAMETER, LENGTH & ORIENTATION AS SHOWN ON FABRICATION DRAWING.



ANCHOR PLATE/TOP TEMPLATE

PLAN



A402

NOTE:
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BILL OF BARS - STANDARD FOUNDATIONS

STANDARD FOUNDATION MFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		6	11'-7"			DRILLED SHAFT - VERTICAL
A402		13	5'-10"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	12'-7"			DRILLED SHAFT - VERTICAL
A402		14	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCI/MCII/TFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	16'-7"			DRILLED SHAFT - VERTICAL
A402		18	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	19'-7"			DRILLED SHAFT - VERTICAL
A402		21	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIII/TCII/TFIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIV/TFIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	12'-2"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	27'-7"			DRILLED SHAFT - VERTICAL
A402		29	12'-2"	X		DRILLED SHAFT - HORIZONTAL

ESTIMATED QUANTITIES - FOUNDATIONS

STANDARD FOUNDATION TYPE	CONCRETE MASONRY (CY)	STEEL REINFORCEMENT HS (LBS)	FOUNDATION DRILLING (LF)				
			24" DIA.	30" DIA.	36" DIA.	42" DIA.	48" DIA.
MFI	2	240	12				
MFII	3	410		13			
MCI/MCII/TFI	4	540		17			
TCI	5	780			18		
TFII	6	860			20		
MCIII/TCII/TFIII	7	970				18	
MCIV/TFIV	9	1,250				23	
TCIII	11	1,560					23
TCIV	13	1,900					28

** QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON STANDARD STRUCTURE DIMENSIONS

NOTES

CENTER ANCHOR ROD ASSEMBLY ON DRILLED SHAFT AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

◐ FOR OVERHEAD SIGN STRUCTURES THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE SHAFT SHALL BE POURED FLUSH WITH THE FINISHED GRADE.

◪ 2" DIA NONMETALLIC CONDUITS, INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO THE DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

SHEET IV OF IV

982

SCALE = 1.67

8

8

STATE PROJECT NUMBER

3080-01-75

DESIGN DATA

CONTRACTOR DESIGNED OVERHEAD SIGN STRUCTURES SHALL BE DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL.

STANDARD FOUNDATIONS DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD: WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD: 3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS.
WIND PRESSURE: 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1:	1.00	0.00
LOAD CASE 2:	0.00	1.00
LOAD CASE 3:	0.75	0.75

LOAD COMBINATIONS	
STRENGTH I:	1.25 DC + 1.6 LL
EXTREME I (MAX DC):	1.1 DC + 1.0 W + 1.0 ICE
EXTREME I (MIN DC):	0.9 DC + 1.0 W
SERVICE I:	1.0 DC + 1.0 W
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION)
	1.0 TRG (TRUCK INDUCED GUST VIBRATION)
	1.0 GVW (GALLOPING - CANTILEVER ONLY)

MATERIAL PROPERTIES

HIGH STRENGTH BOLTS - A325 ---------- fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ---------- fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

STRUCTURE DATA

SIGN STR	ACTUAL SIGN AREA	ACTUAL SIGN DEPTH	STANDARD TYPE
S-13-563	309.5 SF	9'-0"	NS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE TRUSS OR MONOTUBE BID ITEMS FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

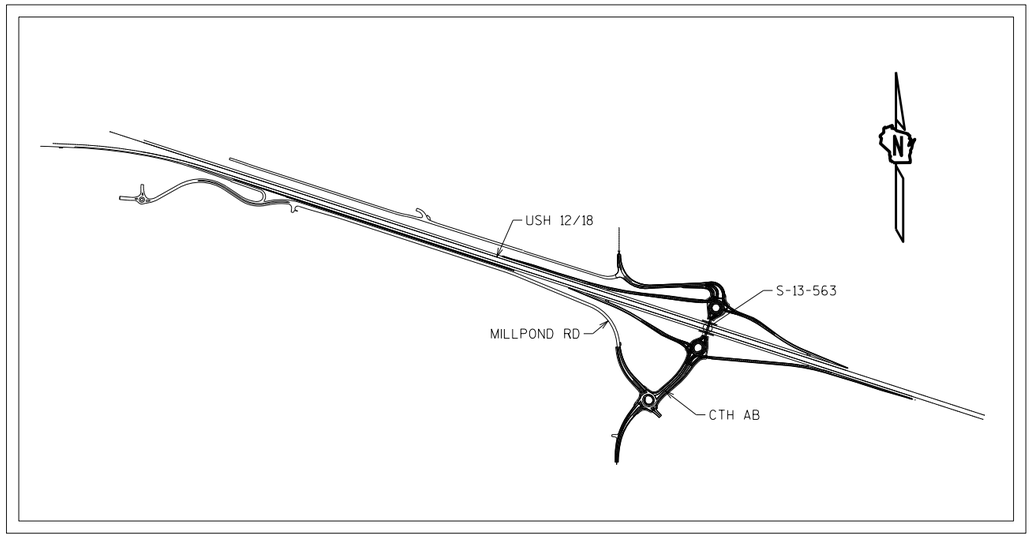
THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONSTRUCTION OF S-13-563 WITH THE CONSTRUCTION OF BRIDGE B-13-893.

TRAFFIC VOLUME

CTH AB 'NB'
ADT = 17,300 (2043)
R.D.S. = 30 M.P.H.



LOCATION MAP

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-13-563
3. FOUNDATION DETAILS

LIST OF OSS STANDARD DESIGN DRAWINGS

4. I. MONOTUBE & 2-CHORD TRUSS DETAILS 1
5. II. MONOTUBE & 2-CHORD TRUSS DETAILS 2
— NOT USED — III. MONOTUBE & 2-CHORD TRUSS ELECTRICAL DETAILS
— NOT USED — IV. MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEM	UNIT	S-13-563
532.5400	TRUSS FULL SPAN 2-CHORD TYPE NS (S-13-563)	EA	1

STRUCTURE DESIGN CONTACTS:
SHANNON LIPE (608) 266-2369
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED DMB 03/14/22
CHIEF STRUCTURES DESIGN ENGINEER — DATE

MONOTUBE AND 2-CHORD TRUSS PLANS

USH 12/18, CTH AB OVERPASS

COUNTY: DANE | TOWN: COTTAGE GROVE

DESIGN SPEC.
AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
SCL	LJR	SCL	LJR

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 5

983

I.D. 3080-01-05J DATE: DEC 2021

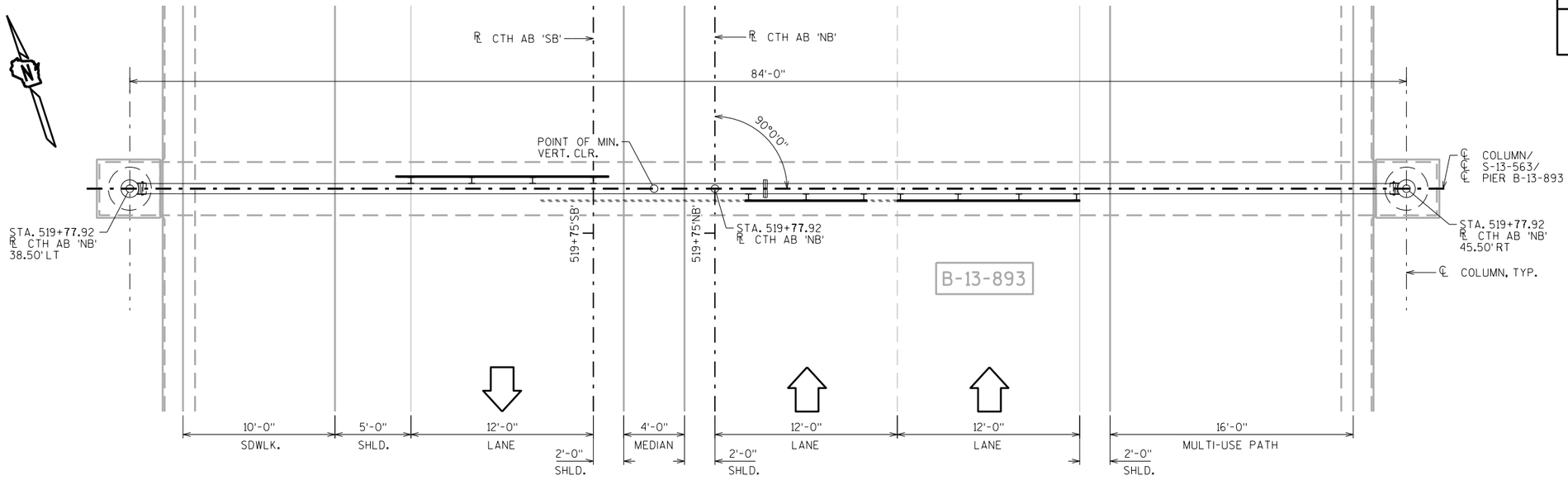
SCALE = 0.50

8

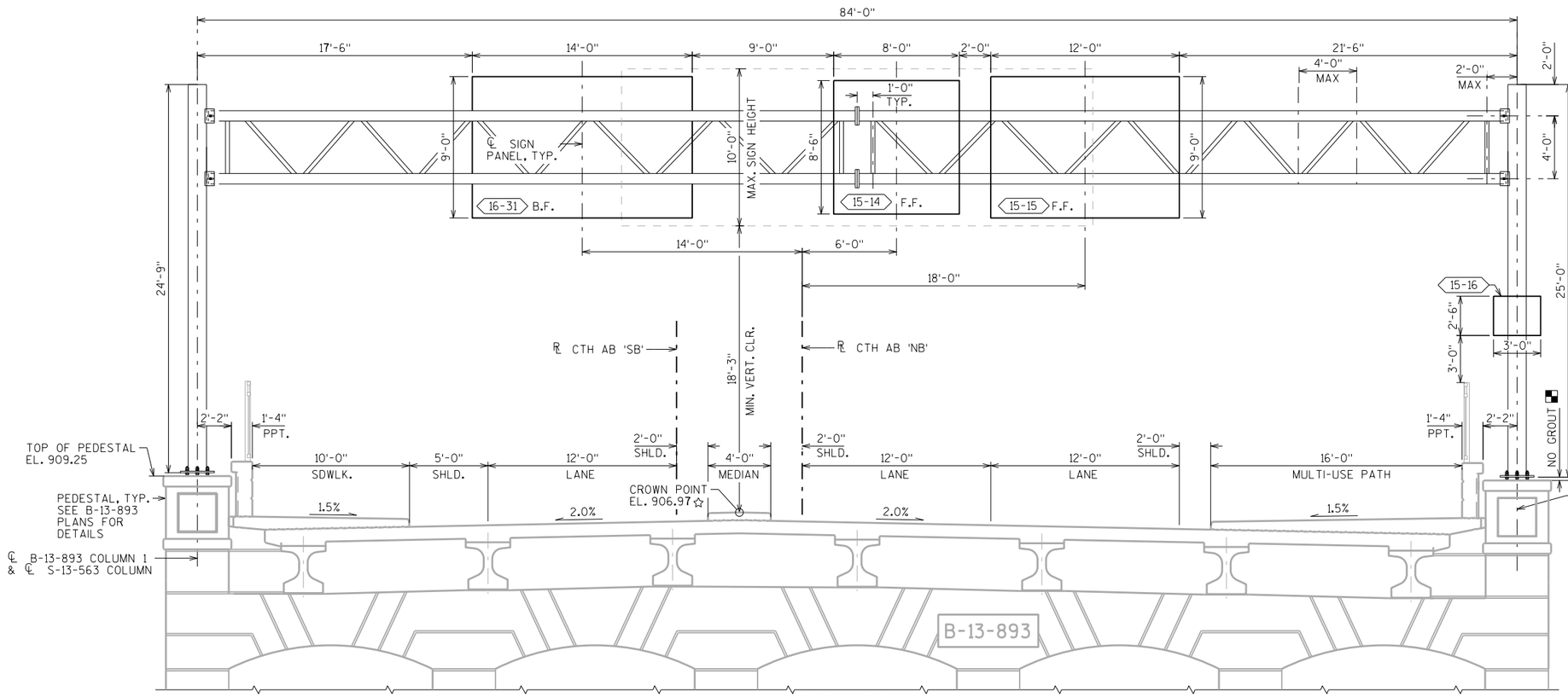
8

STATE PROJECT NUMBER

3080-01-75



PLAN



ELEVATION

STA. 519+77.92 'NB'
(LOOKING NORTH)

NOTE

POINT OF MIN. VERTICAL CLEARANCE
STA. 519+77.92
PROJ ℄ CTH AB 'NB'
4.00' LT
EL. 906.97±

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ S-13-563

XX-XX SIGN NUMBERS (SEE PERMANENT SIGNING PLAN)

■ STANDOFF DIMENSION IS ASSUMED TO BE 2½", BUT IS A MAXIMUM OF 2 X ANCHOR ROD DIAMETER. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-563

DRAWN BY SCL | PLANS CK'D. LJR

GENERAL LAYOUT
S-13-563

SHEET 2

984

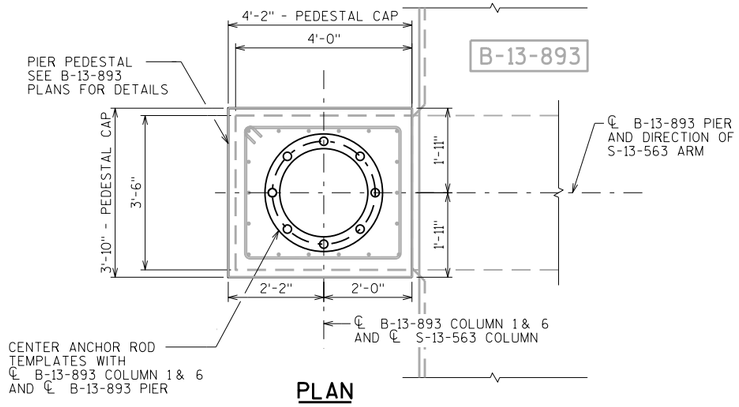
SCALE = 4.00

8

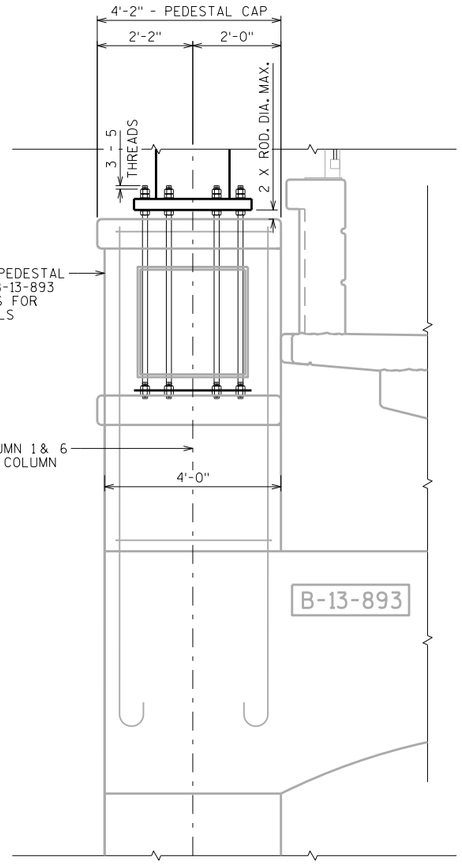
8

STATE PROJECT NUMBER

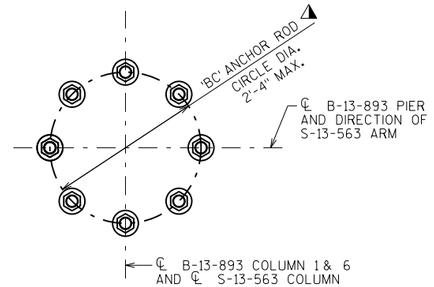
3080-01-75



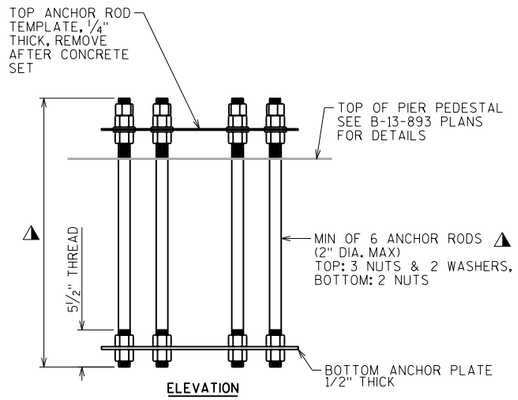
PLAN



ELEVATION



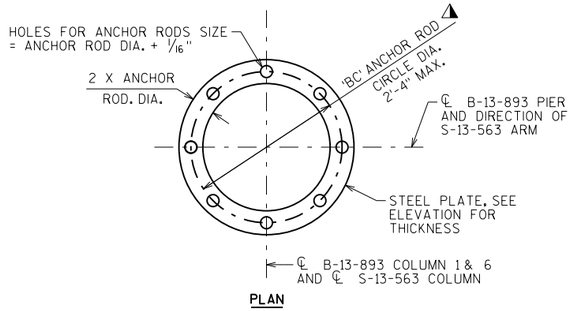
PLAN



ELEVATION

ANCHOR ROD ASSEMBLY DETAILS

⚠ ANCHOR ROD NUMBER, DIAMETER, LENGTH & ORIENTATION AS SHOWN ON FABRICATION DRAWING



PLAN

ANCHOR PLATE/TOP TEMPLATE

NOTES

COORDINATION WITH THE CONSTRUCTION OF B-13-893 IS REQUIRED.

CENTER ANCHOR ROD ASSEMBLY WITH ℄ B-13-893 COLUMN 1 & 6, AND ℄ B-13-893 PIER, AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE B-13-893 PEDESTAL AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHORS.

ALL WORK AND MATERIALS ASSOCIATED WITH ANCHOR RODS, PLATES, TEMPLATES, AND CONNECTION HARDWARE SHALL BE INCLUDED IN THE BID ITEM 'TRUSS FULL SPAN 2-CHORD TYPE NS (S-13-563)'.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-0563

DRAWN BY SCL | PLANS CK'D. LJR

FOUNDATION DETAILS

SHEET 3

985

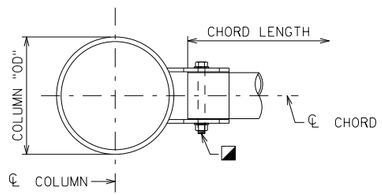
SCALE = 1.67

8

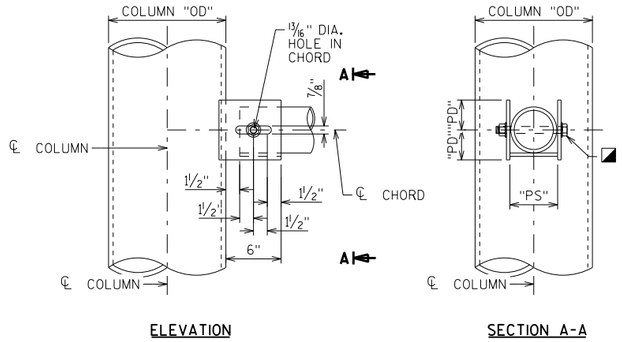
8

STATE PROJECT NUMBER

STANDARD



PLAN



ELEVATION

SECTION A-A

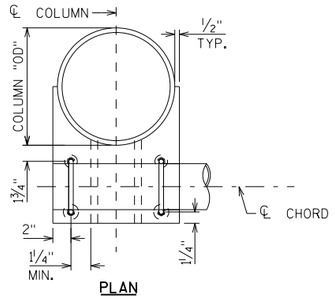
FULL SPAN SADDLE CONNECTION

PREFERRED

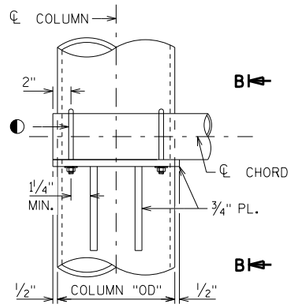
¾" GALVANIZED A325 OR A449 HEAVY HEX BOLT, NUT, WASHER

"PD" = (CHORD "OD")/2 + ¾"

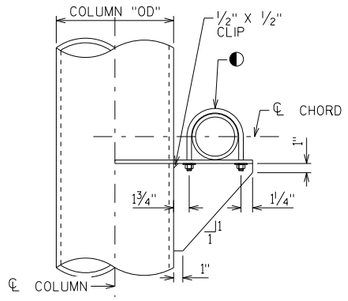
"PS" = CHORD "OD" + 3/16"



PLAN



ELEVATION

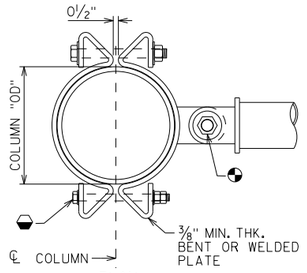


SECTION B-B

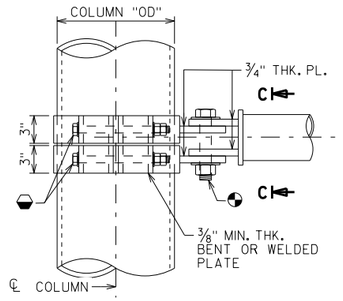
FULL SPAN STIFFENED BEARING CONNECTION

ALTERNATE 1

◐ (2) - ½" MIN. GALVANIZED U-BOLT, NUT, WASHER AND LOCK WASHER



PLAN



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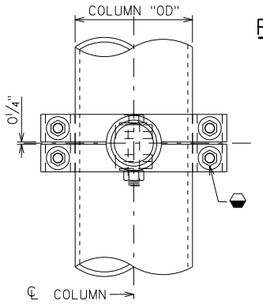


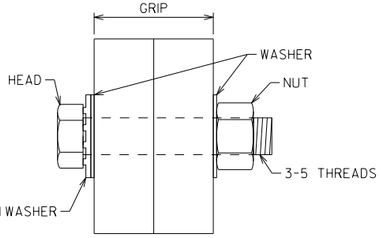
SECTION C-C

FULL SPAN CLAMP CONNECTION

ALTERNATE 2 - TAPERED COLUMNS ONLY

◔ 1¼" GALVANIZED A325 HEAVY HEX BOLT, NUT AND WASHER

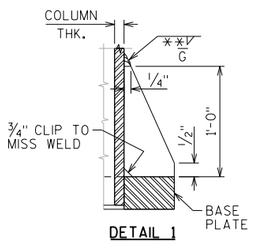
⬣ 1" GALVANIZED A449 HEAVY HEX BOLT, NUT AND WASHER



RECOMMENDED BOLT DETAIL WITH DTI

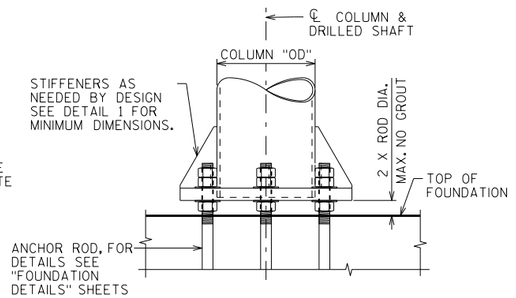
NUT IS THE TURNED ELEMENT

PLAN



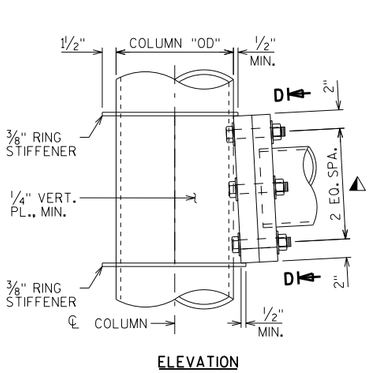
DETAIL 1

** SIZE AS NEEDED



BASE PLATE & COLUMN DETAIL

LOOKING AT FRONT FACE OF STRUCTURE



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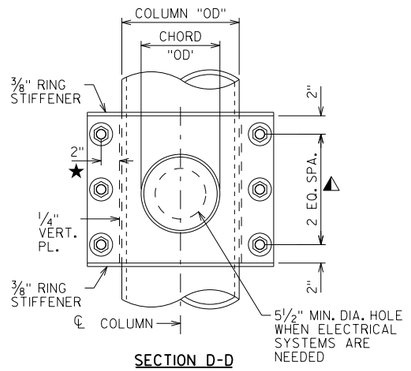
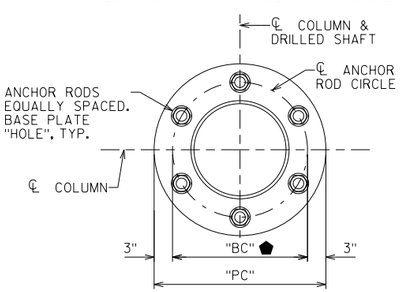


SECTION D-D

CANTILEVER POST TO CHORD CONNECTION

◭ MIN. CONNECTION = (6) - 1" GALVANIZED F3125 GRADE A325 BOLTS, NUT, WASHER AND DTI

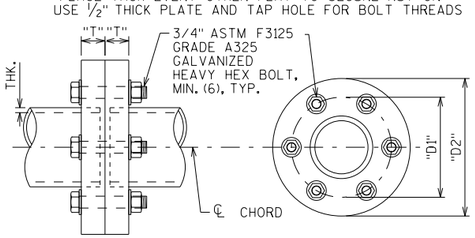
★ MIN. DIMENSION MEASURED FROM EXT. FACE OF VERT. PLATE



BASE PLATE

PLAN

⬟ "BC" = POLE OD + 6"

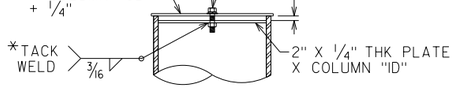


CHORD SPLICE DETAIL

"D1" = CHORD "OD" + 3"

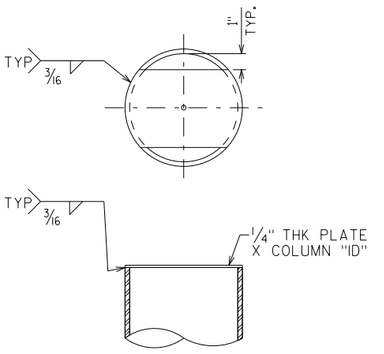
"D2" = CHORD "OD" + 6"

"T" = BY DESIGN



COLUMN/CHORD CAP DETAIL

* PLACE TACK EVERY OTHER FLAT TO SECURE NUT OR USE ½" THICK PLATE AND TAP HOLE FOR BOLT THREADS



CHORD CAP DETAIL

NOTES:

MINIMUM VALUES SHOWN

ALL CONNETIONS ARE TO BE DESIGNED FOR ACTUAL STRUCTURE LOADS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY: BOS | PLANS CK'D.: BOS

MONOTUBE & 2-CHORD TRUSS DETAILS 1

SHEET 1 OF IV

986

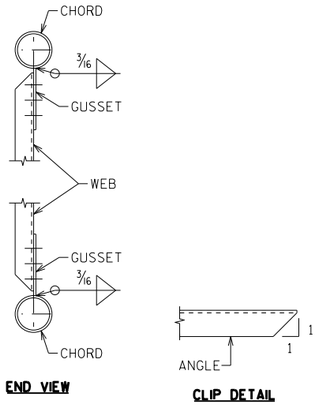
8

8

SCALE = 1.00

STATE PROJECT NUMBER

STANDARD

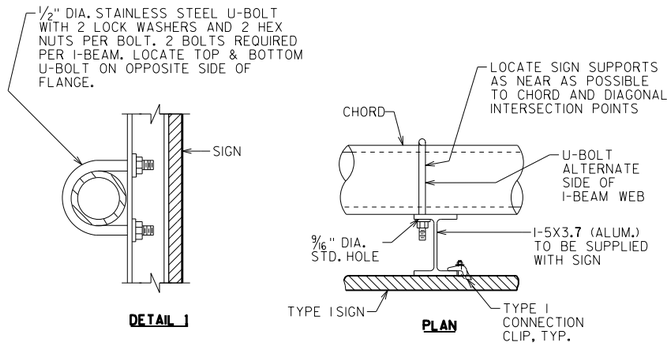


END VIEW

CLIP DETAIL

TRUSS CONNECTION DETAILS

BOLTED CONNECTIONS SHOWN, NUMBER OF BOLTS BY DESIGN
WELDED CONNECTIONS SIMILAR



DETAIL 1

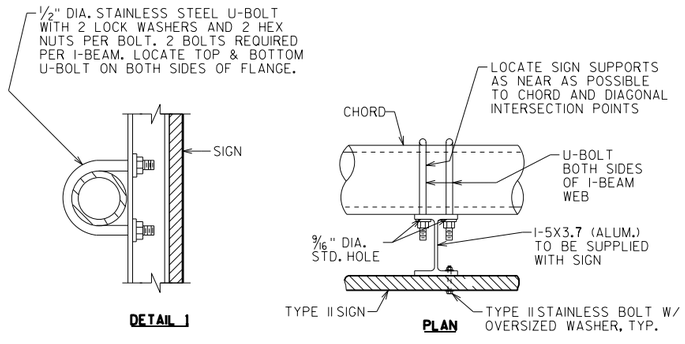
PLAN

2-CHORD TRUSS SIGN CONNECTION

SEE SIGN PLATE MANUAL A4-7A FOR DETAILS

ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH THE SIGN PANEL

HARDWARE TO BE SUPPLIED BY THE CONTRACTOR



DETAIL 1

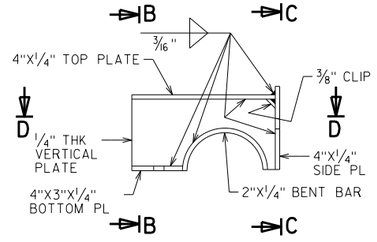
PLAN

MONOTUBE SIGN CONNECTION

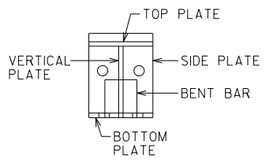
SEE SIGN PLATE MANUAL A4-7B FOR DETAILS

ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH THE SIGN PANEL

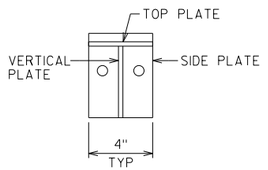
HARDWARE TO BE SUPPLIED BY THE CONTRACTOR



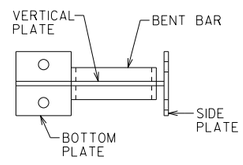
ELEVATION



SECTION B-B



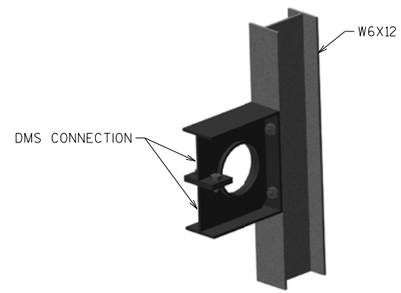
SECTION C-C



SECTION D-D

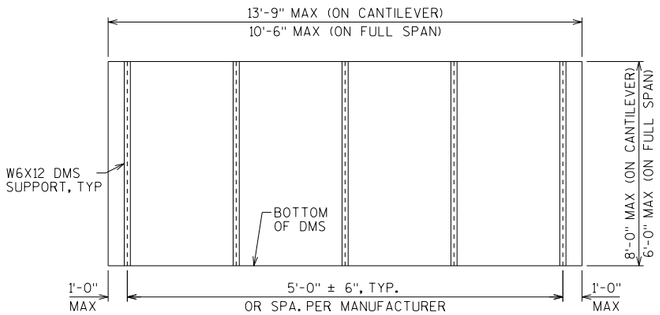
DMS WELDED PLATE CONNECTION DETAILS

TOP PLATE CLAMP SHOWN
BOTTOM PLATE CLAMP SIMILAR



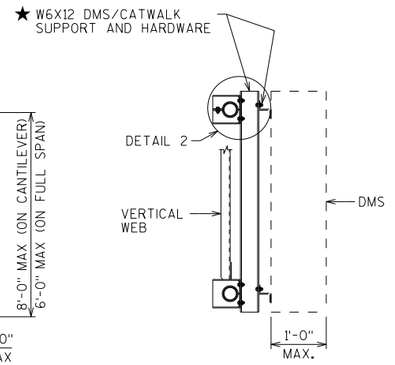
3-D VIEW DMS CONNECTION

CHORD NOT SHOWN FOR CLARITY



DMS MOUNTING POST SPACING DETAIL

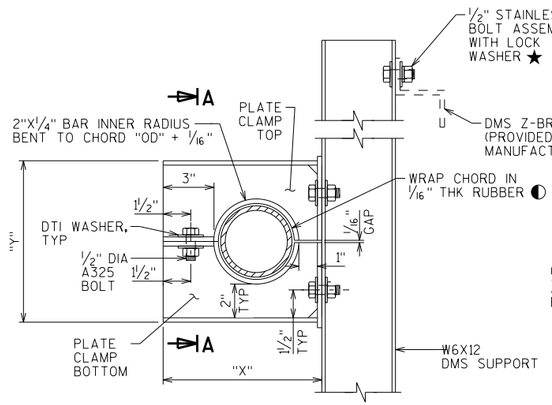
POST SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED.



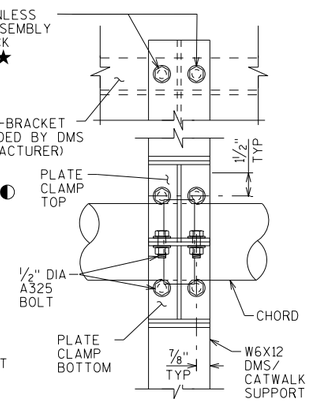
SECTION THRU TRUSS

FOR DMS/CATWALK CONNECTION

★ W6X12 SUPPORTS AND HARDWARE ARE TO BE SUPPLIED BY THE CONTRACTOR. 1/2" STAINLESS BOLT, NUT, WASHER AND LOCK WASHER REQUIRED, 4 PER W6X12.



DETAIL 2



SECTION A-A

CHORD OUTER DIA	"X"	"Y"
"OD"	"OD"+4 13/16"	"OD"+5 1/16"

TYPICAL DMS CONNECTION

◐ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD SPEC 506.2.6.1

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: APRIL 2021

DRAWN BY BOS | PLANS CK'D. BOS

MONOTUBE & 2-CHORD TRUSS DETAILS 2

SHEET II OF IV

987

SCALE = 2.00

8

8

STATE PROJECT NUMBER

3080-01-75

DESIGN DATA

DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", IST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL

FOUNDATION DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD: WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD: 3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS.
WIND PRESSURE: 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1:	1.00	0.00
LOAD CASE 2:	0.00	1.00
LOAD CASE 3:	0.75	0.75

LOAD COMBINATIONS	
STRENGTH I:	1.25 DC + 1.6 LL
EXTREME I (MAX DC):	1.1 DC + 1.0 W + 1.0 ICE
EXTREME I (MIN DC):	0.9 DC + 1.0 W
SERVICE I:	1.0 DC + 1.0 W
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION) 1.0 TRG (TRUCK INDUCED GUST VIBRATION)

MATERIAL PROPERTIES

CONCRETE MASONRY ---------- f'c = 3,500 psi

HIGH STRENGTH STEEL
REINFORCEMENT, GRADE 60 ---------- fy = 60,000 psi

STRUCTURAL ANGLES,
PLATE AND BARS - ASTM A709 GRADE 36 ---------- fy = 36,000 psi

CHORDS - ASTM A500 GRADE C ---------- fy = 46,000 psi

COLUMN PIPE
DESIGN TRUSS TYPE I - ASTM A500 GRADE C ---------- fy = 46,000 psi
DESIGN TRUSS TYPE II - API 5L PSL2 GRADE 46 ---------- fy = 46,000 psi

HIGH STRENGTH BOLTS - A325 ---------- fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ---------- fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE FOR DESIGN IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE, ACTUAL WATER LEVEL AT SITE MAY VARY. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

STRUCTURE DATA

SIGN STR	ACTUAL SIGN AREA	ACTUAL SIGN DEPTH	STANDARD DESIGN TRUSS
S-13-565	175.5 SF	10'-0"	FC-II

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "TRUSS CANTILEVER 4-CHORD (TYPE)" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

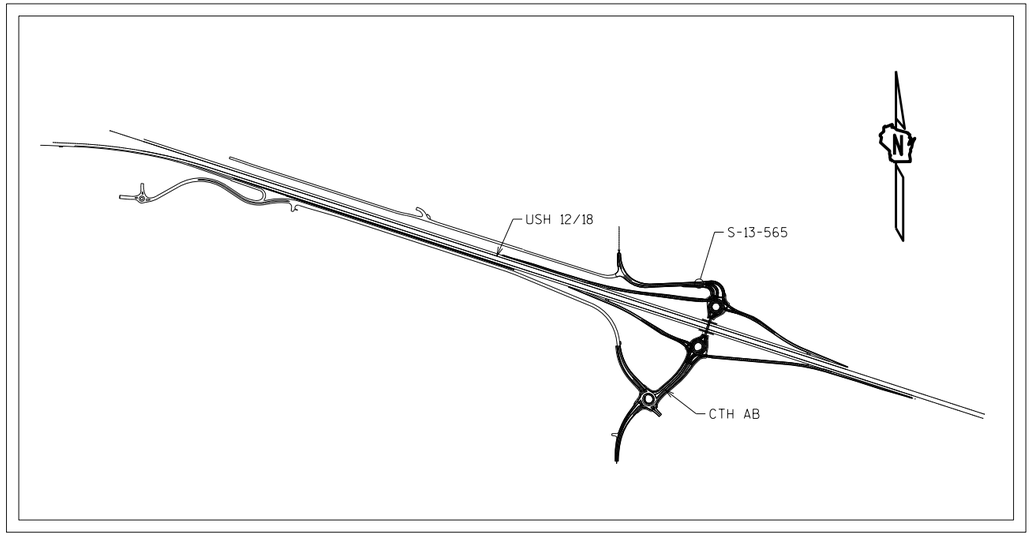
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "DRILLING SHAFT 36-INCH".

TRAFFIC VOLUME

CTH AB 'NB' (NORTH OF MILLPOND ROAD)

A.D.T. = 17,300 (2043)
R.D.S. = 30 M.P.H.



LOCATION MAP

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-13-565

LIST OF OSS STANDARD DESIGN DRAWINGS

3. I. 4-CHORD TRUSS CANTILEVER
4. II. 4-CHORD TRUSS CANT. CONNECTION DETAILS 1
5. III. 4-CHORD TRUSS CANT. CONNECTION DETAILS 2
6. IV. 4-CHORD TRUSS CANT. CONNECTION DETAILS 3
7. V. 4-CHORD TRUSS CANT. CATWALK DETAILS
8. VI. 4-CHORD TRUSS CANT. ELECTRICAL DETAILS
9. VII. 4-CHORD TRUSS CANT. FOUNDATION DETAILS
10. VIII. 4-CHORD TRUSS CANT. FOUNDATION DETAILS 2

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEM	UNIT	S-13-565
531.2036	DRILLING SHAFT 36-INCH	LF	32
531.6020	FOUNDATION TWO-SHAFT TYPE FC-II	EA	1
532.6020	TRUSS CANTILEVER 4-CHORD TYPE II	EA	1

STRUCTURE DESIGN CONTACTS:
SHANNON LIPE (608) 266-2369
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED DMB 03/14/22
CHIEF STRUCTURES DESIGN ENGINEER DATE

4-CHORD TRUSS CANTILEVER PLANS

CTH AB SB TOWARD USH 12/18

COUNTY	TOWN
DANE	COTTAGE GROVE

DESIGN SPEC.
AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
SCL	LJR	SCL	LJR

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 10

988

I.D. 3080-01-051 DATE: DEC 2021

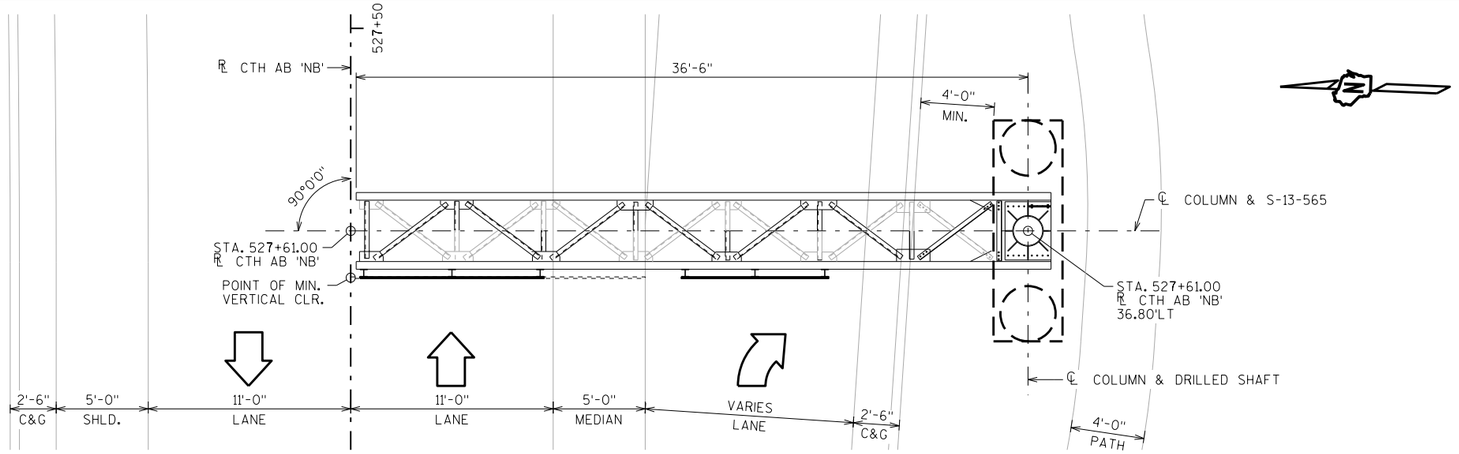
8

8

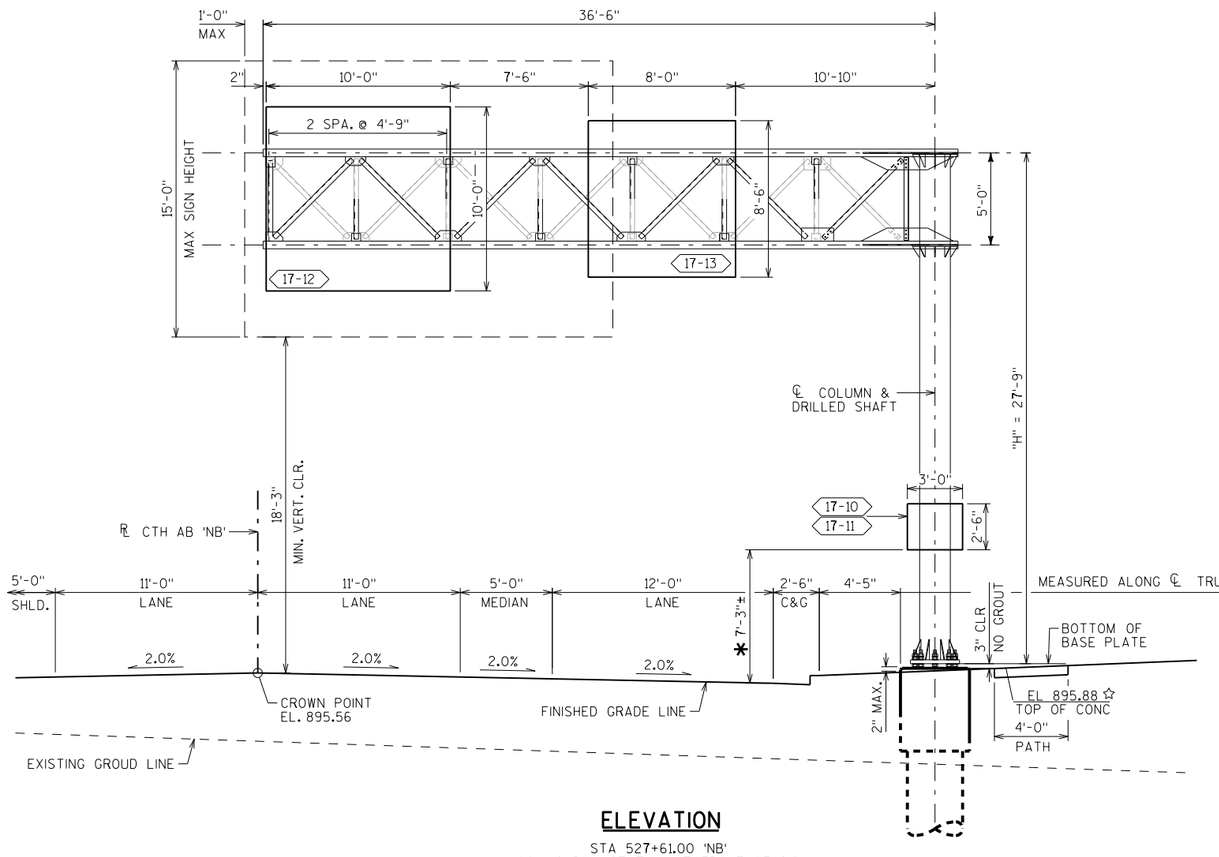
SCALE = 0.50

STATE PROJECT NUMBER

3080-01-75

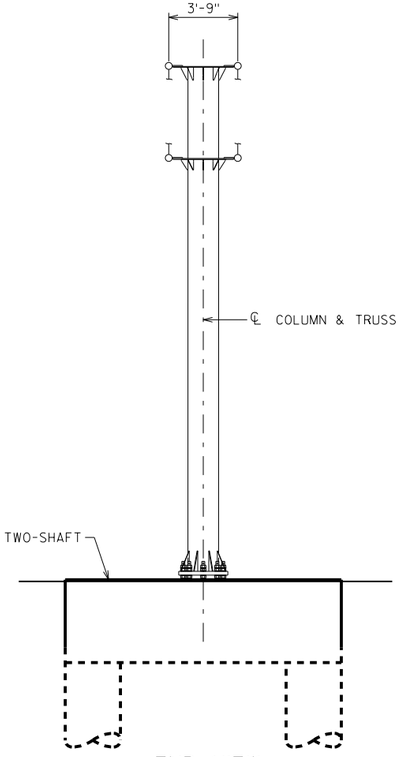


PLAN



ELEVATION

STA 527+61.00 'NB'
(LOOKING DOWNSTATION AT FRONT OF SIGN)



END VIEW

LOOKING NORTH

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA. 527+63.54±
℄ CTH AB 'NB'
EL. 895.56±

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ TRUSS

XX-XX SIGN NUMBERS (SEE PERMANENT SIGNING PLAN)

* DIMENSION IS FROM EDGE OF LANE TO BOTTOM OF SIGN. THE ± TOLERANCE SHOWN IS 3".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-565

DRAWN BY SCL | PLANS CK'D. LJR

GENERAL LAYOUT
S-13-565

SHEET 2

989

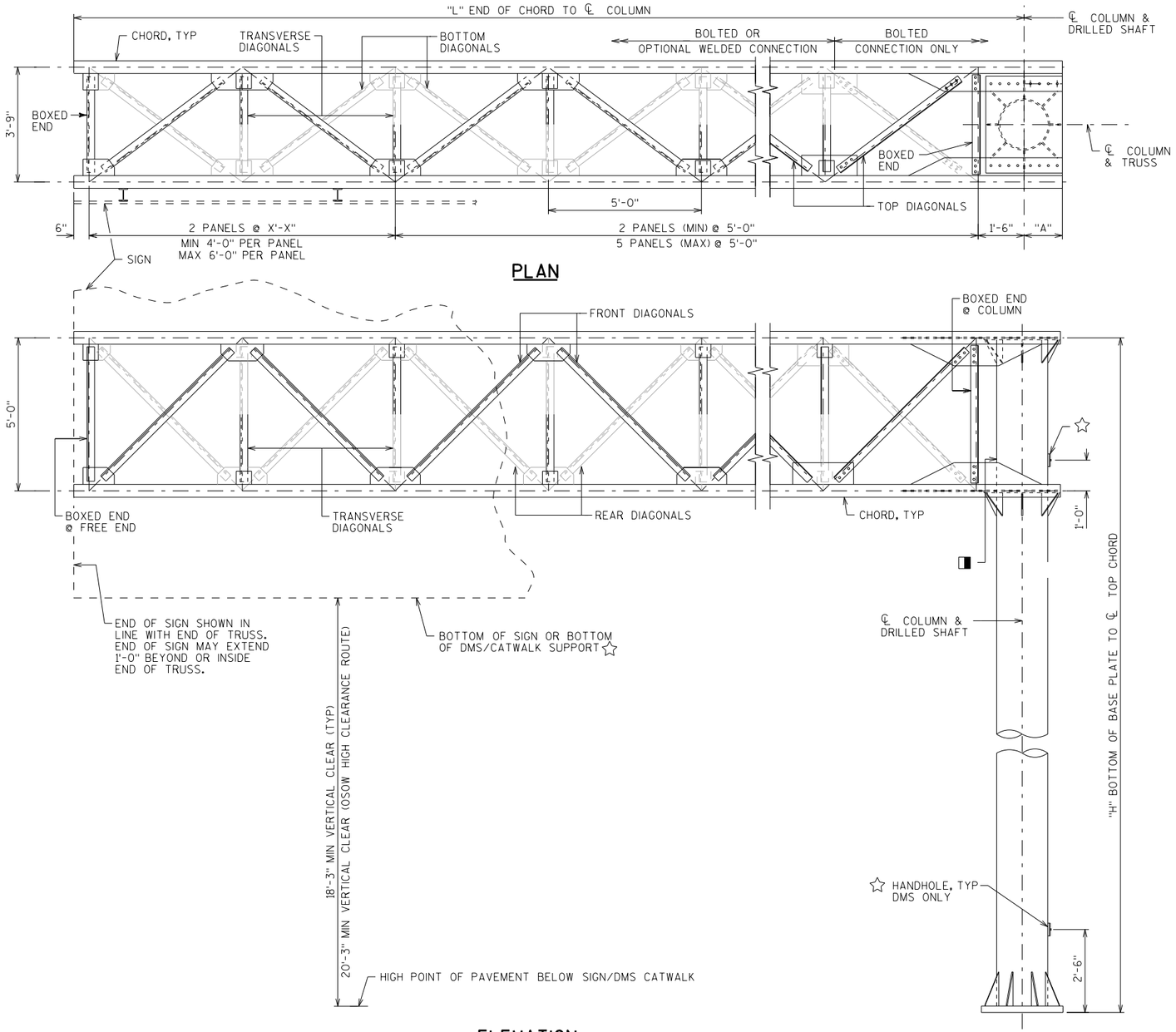
SCALE = 4.00

8

8

STATE PROJECT NUMBER

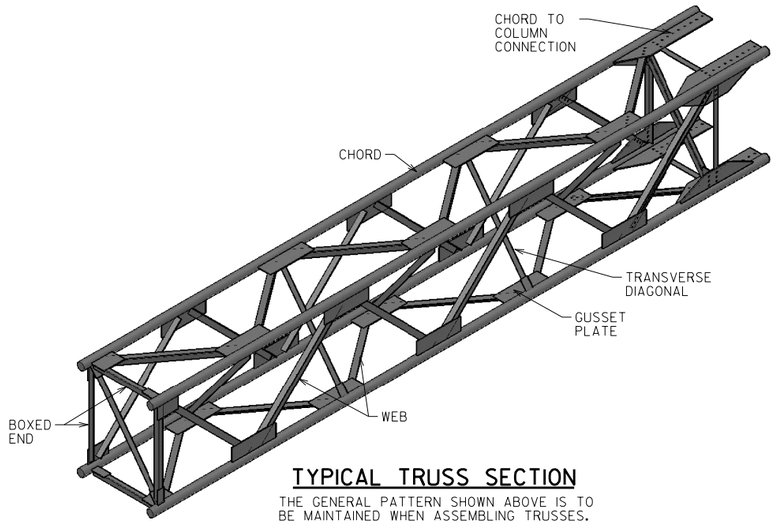
STANDARD



PLAN

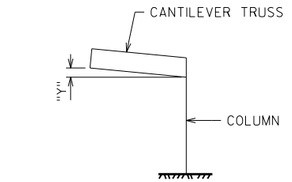
ELEVATION

LOOKING AT F.F. OF TRUSS



TYPICAL TRUSS SECTION

THE GENERAL PATTERN SHOWN ABOVE IS TO BE MAINTAINED WHEN ASSEMBLING TRUSSES.



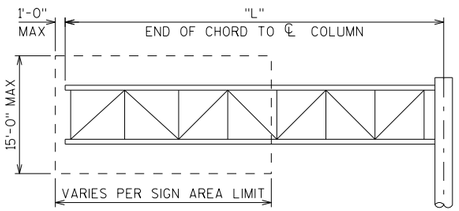
CAMBER DIAGRAM

PREFABRICATE CAMBER INTO THE HORIZONTAL SUPPORT PROVIDING AN AMOUNT "Y" AT THE END OF TRUSS AS SHOWN. DO NOT RAKE VERTICAL COLUMN BY ADJUSTMENT OF LEVELING NUTS.

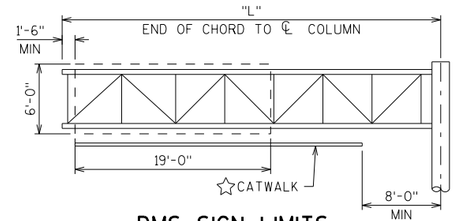
CAMBER VALUES

DIM "L" / "H"	"Y" (IN) 30' TYPE I	30' DMS	38' TYPE I	38' DMS
22'	2 1/4"	3 1/2"	2 5/8"	4 1/8"
24'	2 3/8"	3 7/8"	2 7/8"	4 1/2"
26'	2 1/2"	4 1/8"	3 1/8"	4 7/8"
28'	2 3/4"	4 1/2"	3 1/4"	5 1/4"
30'	2 7/8"	4 3/4"	3 1/2"	5 5/8"

INTERPOLATE FOR VALUES NOT SHOWN.
DMS VALUES INCLUDE DL OF CATWALK.



TYPE 1 SIGN LIMITS



DMS SIGN LIMITS

2,500 LB MAX DMS WEIGHT, INCLUDES DMS VERTICAL SUPPORT MEMBERS

CANTILEVER 4-CHORD TRUSS MEMBER TABLE

STANDARD DESIGN TRUSS	TYPE I SIGN AREA (FT^2)	DMS AREA (FT^2)	MAXIMUM SPAN "L"	MAXIMUM COL HEIGHT "H"	DIM "A"	COLUMN OUTER DIA. X THK	CHORD OUTER DIA. X THK	WEB W X D X THK	BOXED END W X D X THK	TRANSVERSE DIAGONAL W X D X THK
I	264	114	30'-0"	30'-0"	1'-3"	20.00" X 0.500"	5.000" X 0.375"	L3X3X1/4	L3X3X1/4	L3X3X1/4
II	240	114	38'-0"	30'-0"	1'-4 1/2"	24.00" X 0.500"	5.563" X 0.375"	L3X3X5/16	L3X3X1/4	L3X3X1/4

LEGEND

☆ FOR OSS WITH DMS ONLY, PROVIDE HANDHOLES AS SHOWN. SEE "CATWALK DETAILS" AND "ELECTRICAL DETAILS" SHEETS.

◨ FOR OSS WITH DMS ONLY, DRILL HOLE AND TAP FOR (2) 2" STD. PIPE THREADS. LOCATE BOTTOM HOLE 6" UP FROM TOP OF BOTTOM CHORD AND SPACE VERTICALLY AT 6" C/C. PLACE CONDUIT PLUG IN HOLES THAT ARE NOT USED FOR WIRING SIGN PANELS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

4-CHORD TRUSS CANTILEVER

SHEET I OF VIII

990

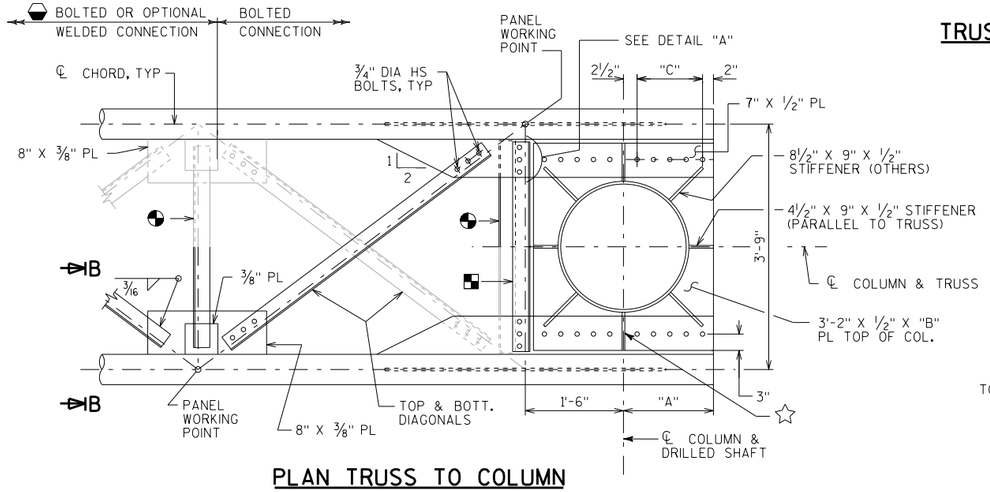
SCALE = 2.00

8

8

STATE PROJECT NUMBER

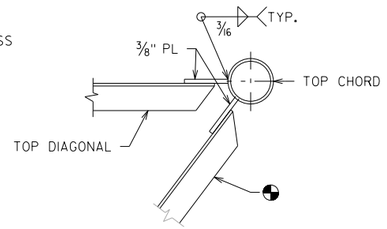
STANDARD



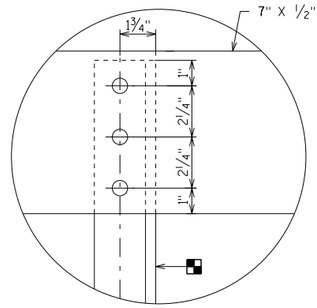
PLAN TRUSS TO COLUMN

TRUSS TO COLUMN CONNECTION DATA

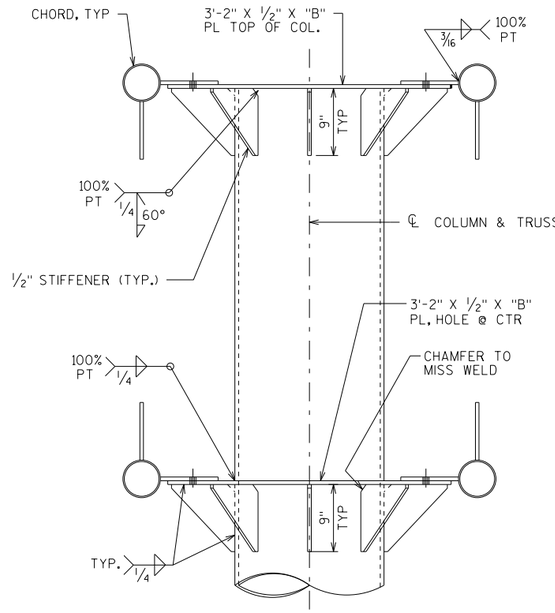
STANDARD DESIGN TYPE	"A"	"B"	"C"
I	1'-3"	2'-6"	3 SPA @ 3½"
II	1'-4½"	2'-9"	4 SPA @ 3"



SECTION B-B

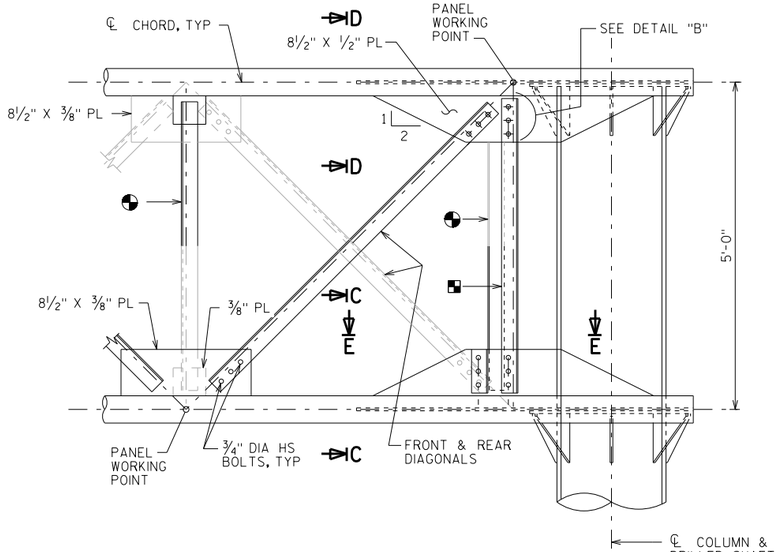


DETAIL "A"

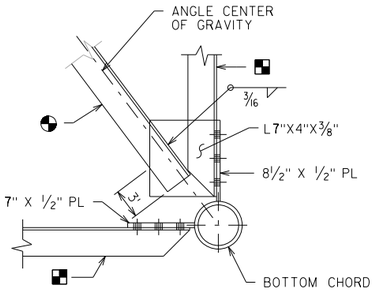


END VIEW TRUSS TO COLUMN

(WEB MEMBERS NOT SHOWN)

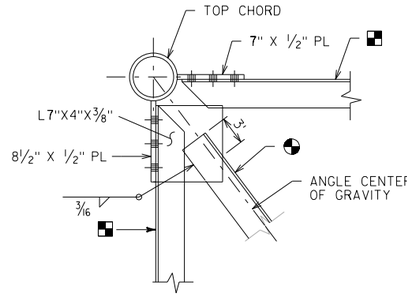


ELEVATION TRUSS TO COLUMN



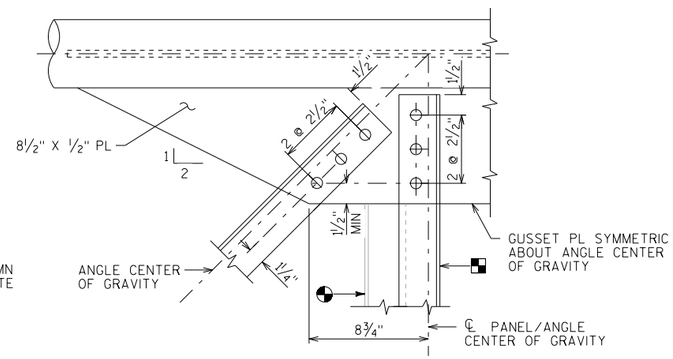
SECTION C-C

(FRONT CHORD)

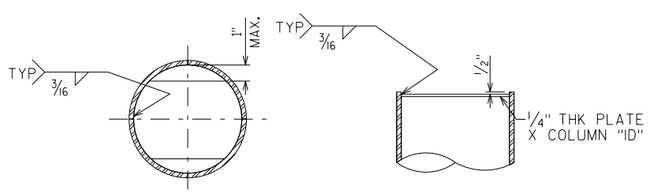


SECTION D-D

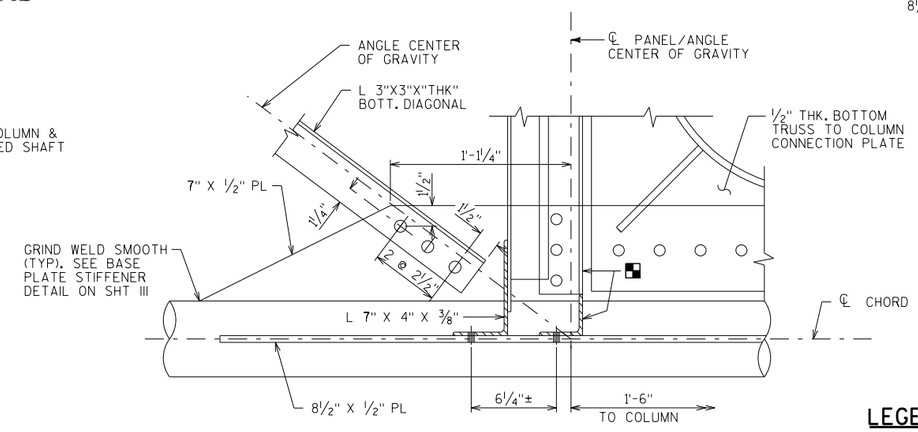
(BACK CHORD)



DETAIL "B"



CHORD CAP DETAIL



SECTION E-E

(LOOKING DOWN @ BOTT. HORIZ. PLANE @ FRONT CHORD)

LEGEND

- TRANSVERSE DIAGONAL
- BOXED END @ SUPPORT
- WELDED CONNECTIONS MAY BE USED IF UNIT CAN BE GALVANIZED IN ONE PIECE.
- ☆ 7" X 9" X ½" STIFFENER STD DESIGN TYPE 2 ONLY, TYP OPPOSITE SIDE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

4-CHORD TRUSS CANT. CONNECTION DETAILS 1

SHEET II OF VIII

991

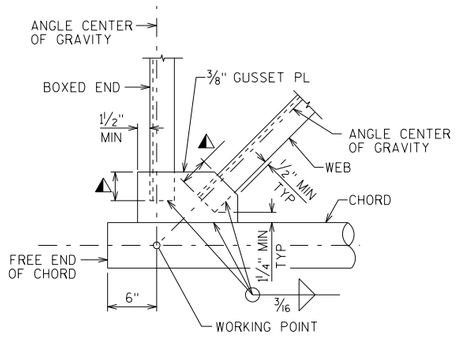
SCALE = 2.25

8

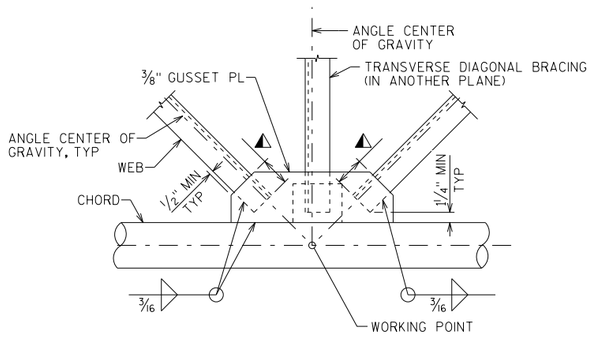
8

STATE PROJECT NUMBER

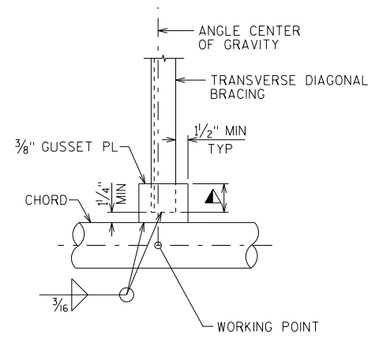
STANDARD



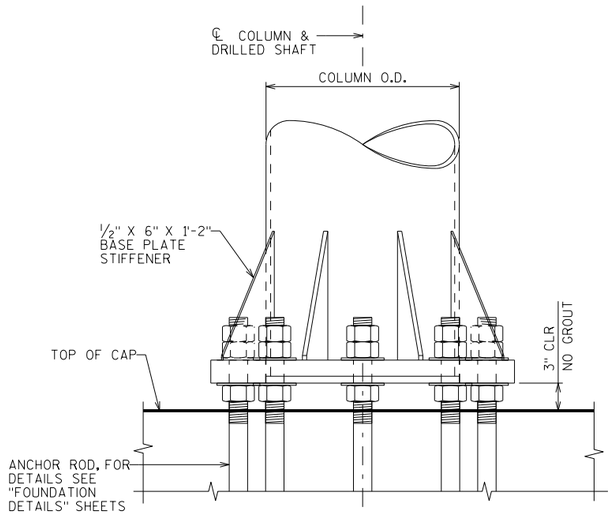
WELDED BOXED END CONNECTION



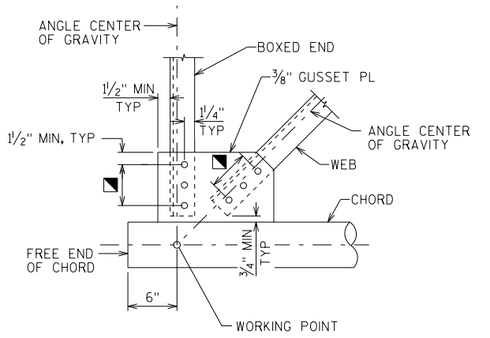
WELDED PANEL CONNECTION



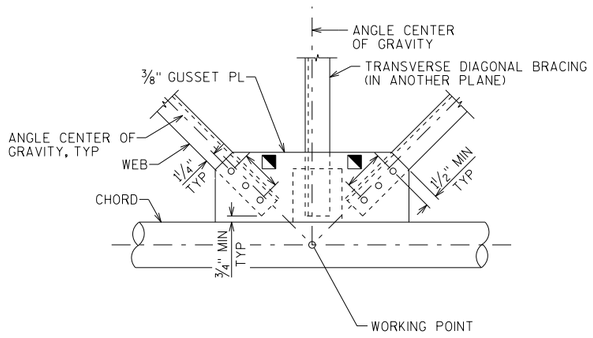
WELDED INTERIOR DIAGONAL CONNECTION



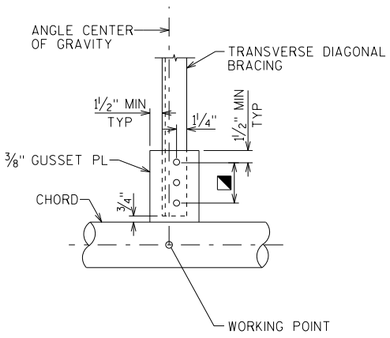
BASE PLATE & COLUMN DETAIL



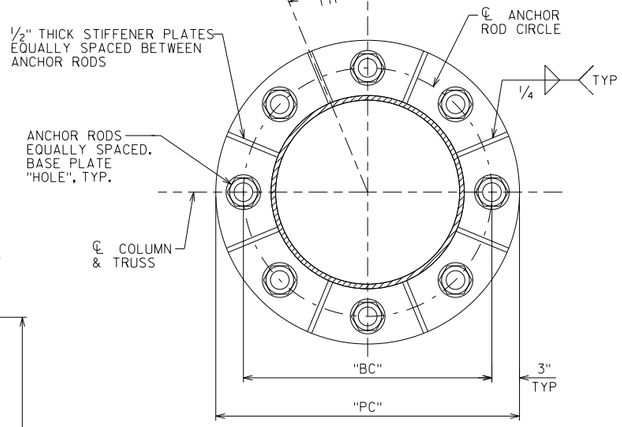
BOLTED BOXED END CONNECTION



BOLTED PANEL CONNECTION

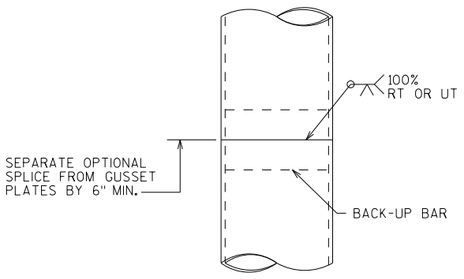


BOLTED INTERIOR DIAGONAL CONNECTION



BASE PLATE

PLAN



OPTIONAL COLUMN OR CHORD SPLICE DETAIL

NOTE

FABRICATOR HAS THE OPTION TO USE NON-MITERED, RECTANGULAR GUSSET PLATES IN LIEU OF MITERED PLATES SHOWN ON THESE DETAILS.

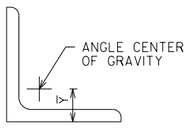
MEMBER CONNECTION DATA

STANDARD DESIGN TYPE	WELD LEG LENGTH ◭	NO. OF BOLTS ◥
I	3" MIN	3
II	3" MIN	3

FOR ALL ANGLE TO GUSSET CONNECTIONS, BOLT SPACING = 2 1/2"

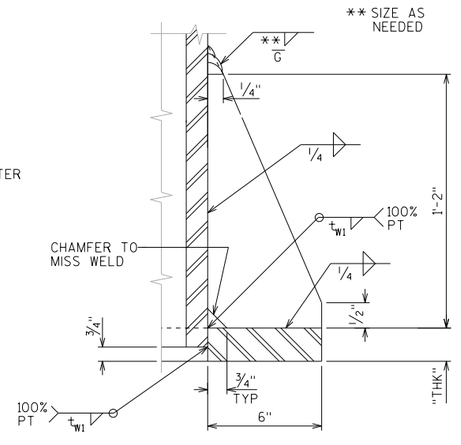
ANGLE DATA

ANGLE SIZE	$\bar{Y}$
L3x3x1/4	0.836"
L3x3x5/16	0.860"



CANTILEVER 4-CHORD COLUMN DATA TABLE

STANDARD DESIGN TYPE	COLUMN OUTER DIA X THK	BASE PLATE				
		"T_{W1}"	"HOLE"	"THK"	"BC"	"PC"
I	20.00" X 0.500"	5/16"	2 1/4"	2"	2'-2"	2'-8"
II	24.00" X 0.500"	5/16"	2 1/4"	2 1/2"	2'-6"	3'-0"



BASE PLATE STIFFENER DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

4-CHORD TRUSS CANT. CONNECTION DETAILS 2

SHEET III OF VIII

992

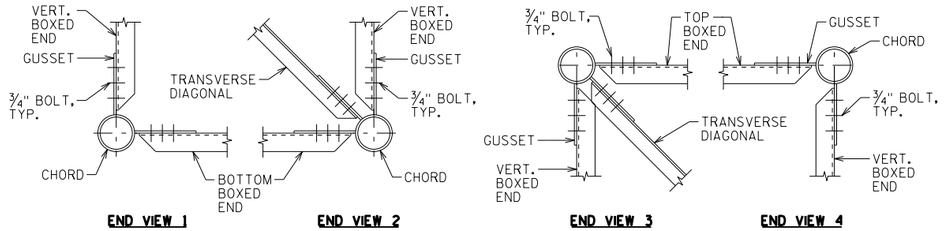
SCALE = 1.50

8

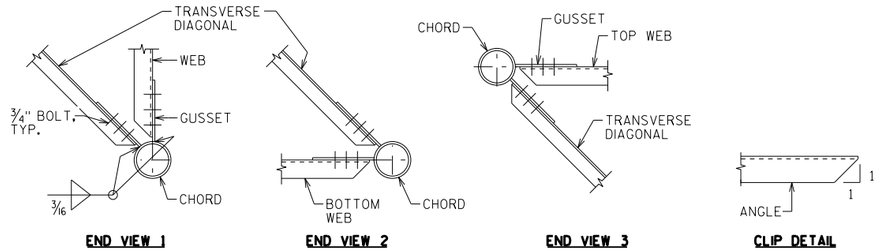
8

STATE PROJECT NUMBER

STANDARD



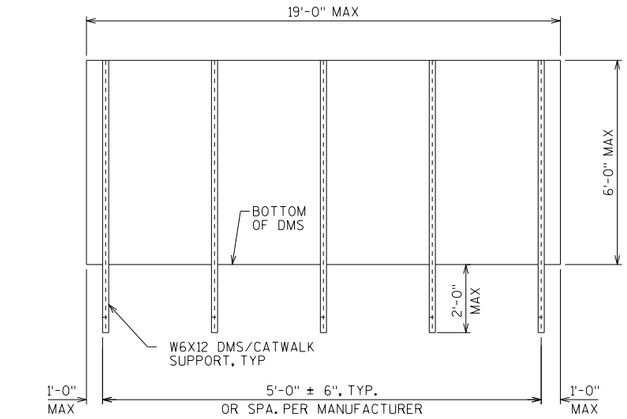
END VIEW 1 | END VIEW 2 | END VIEW 3 | END VIEW 4



END VIEW 1 | END VIEW 2 | END VIEW 3 | CLIP DETAIL

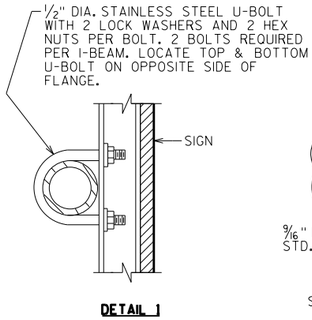
TRUSS CONNECTION DETAILS

BOLTED CONNECTIONS SHOWN, NUMBER OF BOLTS BY DESIGN
WELDED CONNECTIONS SIMILAR

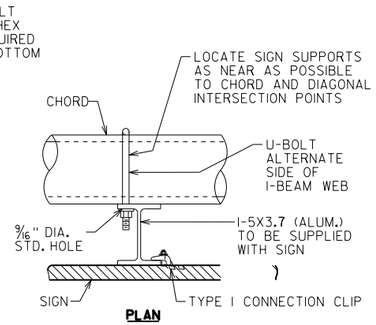


DMS MOUNTING POST SPACING DETAIL

POST SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED.



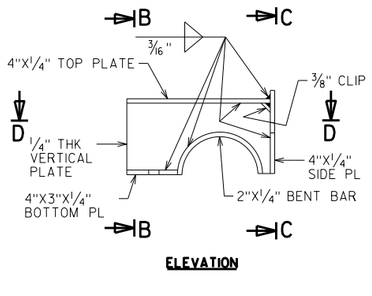
DETAIL 1



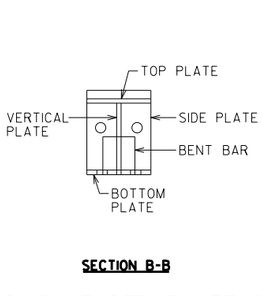
PLAN

TYPICAL SIGN CONNECTION

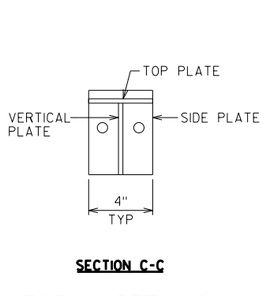
USE FOR TYPE I AND II SIGNS
SEE SIGN PLATE MANUAL A4-7A & A4-7B FOR DETAILS



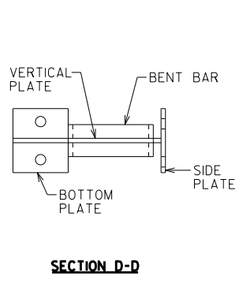
ELEVATION



SECTION B-B



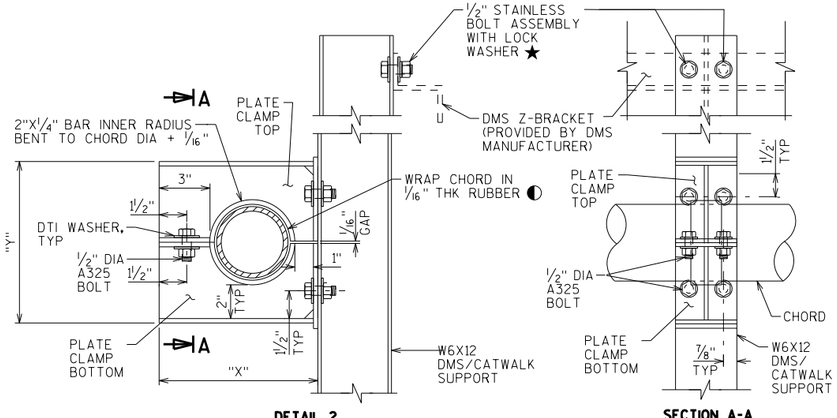
SECTION C-C



SECTION D-D

DMS WELDED PLATE CONNECTION DETAILS

TOP PLATE CLAMP SHOWN
BOTTOM PLATE CLAMP SIMILAR

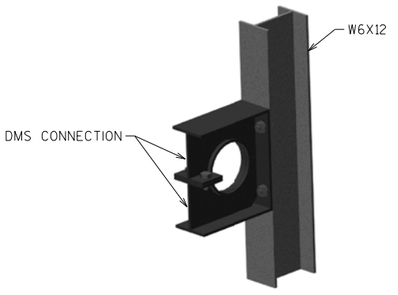


DETAIL 2 | SECTION A-A

CHORD OUTER DIA	"X"	"Y"
5.000"	9 13/16"	10 1/16"
5.563"	10 3/8"	10 5/8"

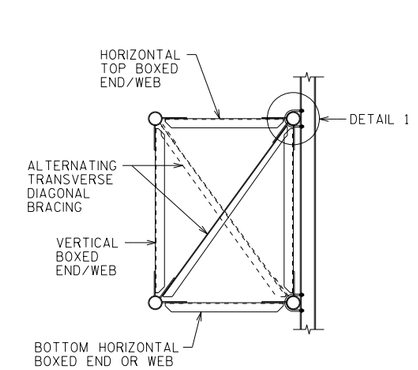
TYPICAL DMS CONNECTION

◐ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD SPEC 506.2.6.1



3-D VIEW DMS CONNECTION

CHORD NOT SHOWN FOR CLARITY

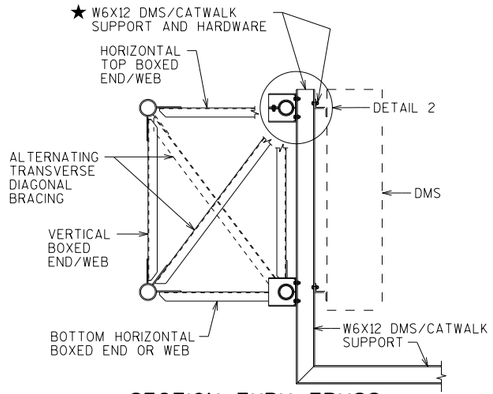


SECTION THRU TRUSS

FOR SIGN CONNECTION

ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH THE SIGN PANEL

HARDWARE TO BE SUPPLIED BY THE CONTRACTOR



SECTION THRU TRUSS

FOR DMS/CATWALK CONNECTION

★ W6X12 SUPPORTS AND HARDWARE ARE TO BE SUPPLIED BY THE CONTRACTOR. ½" STAINLESS BOLT, NUT, WASHER AND LOCK WASHER REQUIRED, 4 PER W6X12.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: APRIL 2021

DRAWN BY BOS | PLANS CK'D. BOS

4-CHORD TRUSS CANT. CONNECTION DETAILS 3

SHEET IV OF VIII

993

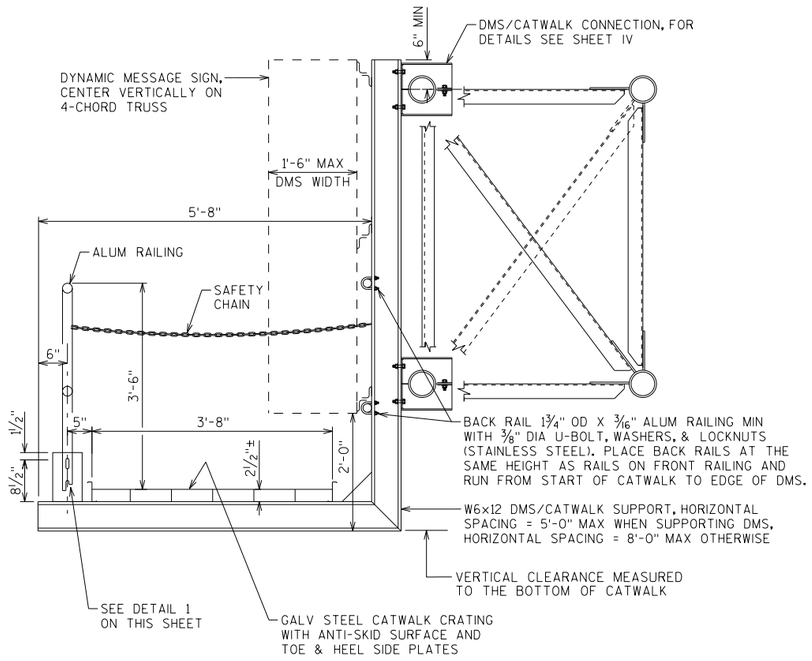
SCALE = 2.00

8

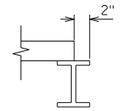
8

STATE PROJECT NUMBER

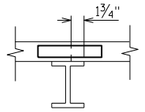
STANDARD



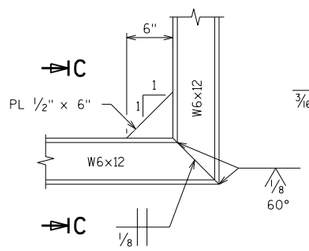
SECTION THRU WALKWAY



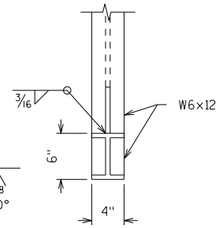
CATWALK TERMINATION DETAIL



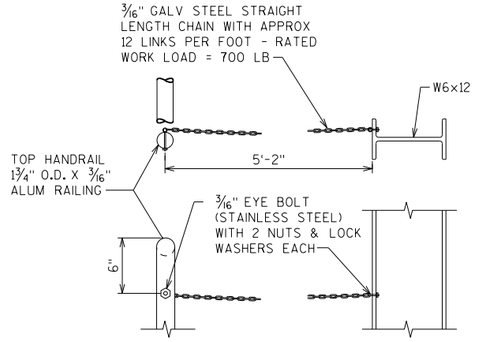
CATWALK SPLICE LOCATION DETAIL



BRACKET DETAIL

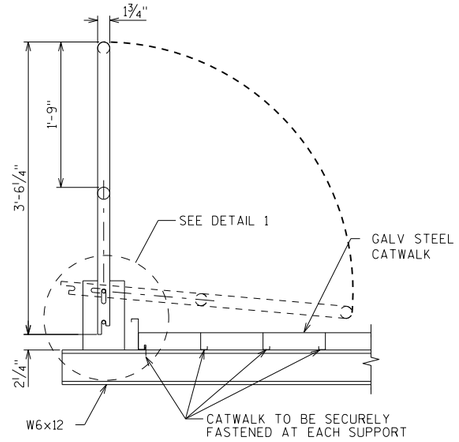


SECTION C-C

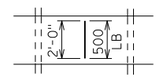


SAFETY CHAIN DETAIL

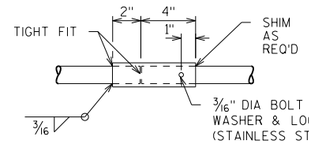
(PROVIDE SAFETY CHAIN AT EACH END OF THE CATWALK)



RAIL POST DETAIL

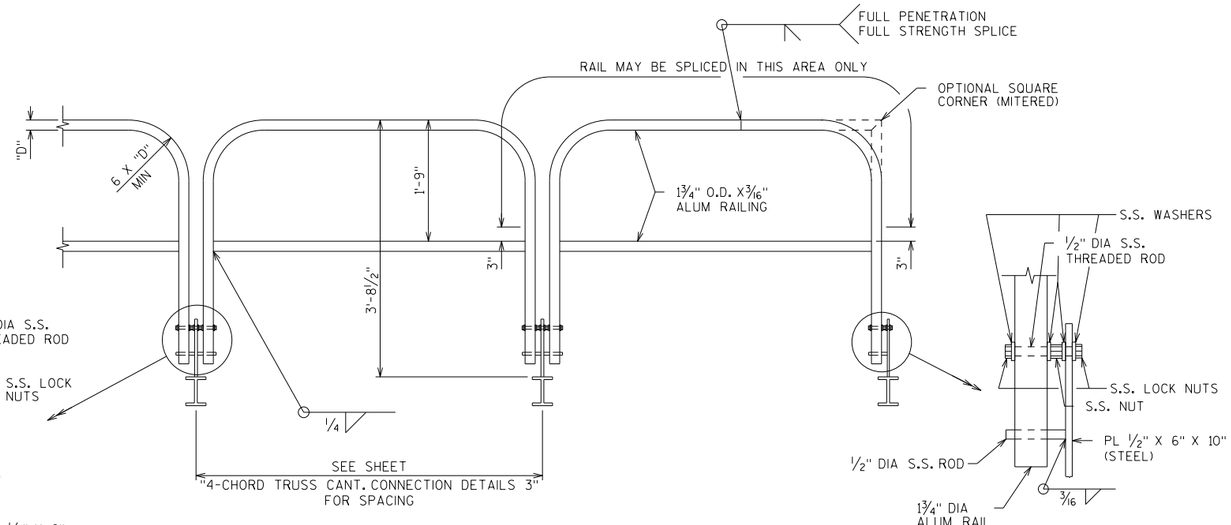


NOTE:
CATWALK GRATING SHALL MEET THE CURRENT AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", (500 LB LIVE LOAD DISTRIBUTED OVER 2'-0" TRANSVERSELY - MAX SPAN IS 8'-0"). CATWALK SHALL ALSO MEET CURRENT OSHA STD'S FOR WALKING-WORKING SURFACES.

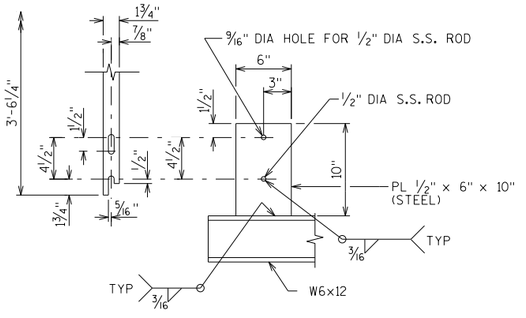


BACKRAIL SPLICE

ONE SPLICE ALLOWED FOR LENGTHS OVER 30'-0"



TYPICAL FRONT RAILING DETAILS



DETAIL 1

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

4-CHORD TRUSS CANT. CATWALK DETAILS

SHEET V OF VIII

994

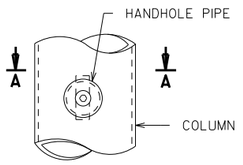
SCALE = 1.25

8

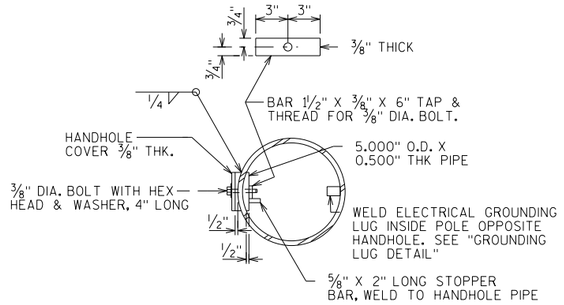
8

STATE PROJECT NUMBER

STANDARD



HANDHOLE DETAILS

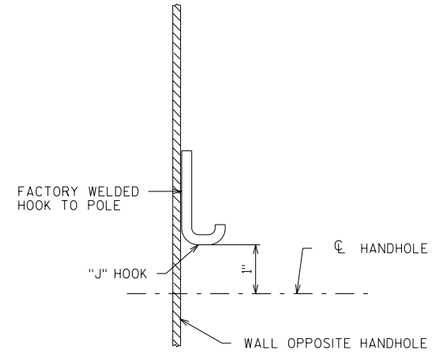


SECTION A-A

HANDHOLE NOTES

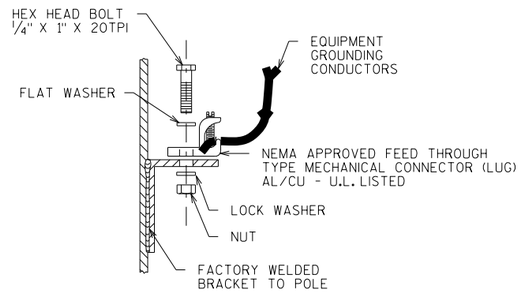
HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN BRIDGE STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGION TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN BRIDGE COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL PLAN DETAIL SHEETS.

UNLESS NOTED OTHERWISE, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER THE WISDOT STANDARD SPECIFICATIONS.



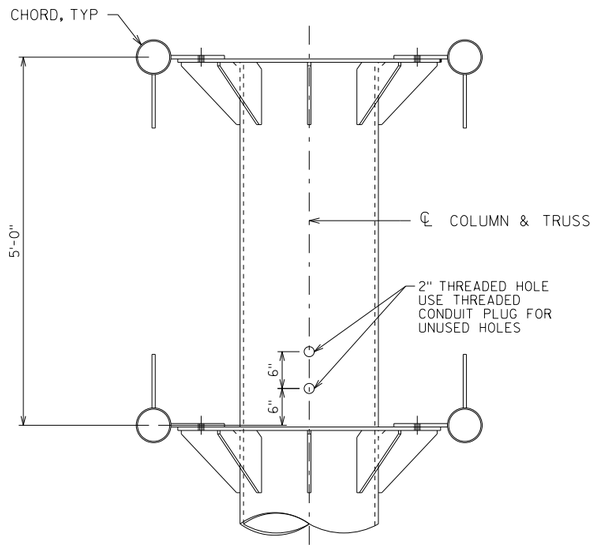
TYPICAL "J" HOOK LOCATION

THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.

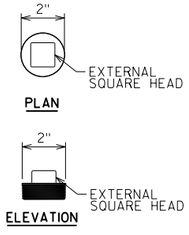


GROUNDING LUG DETAIL

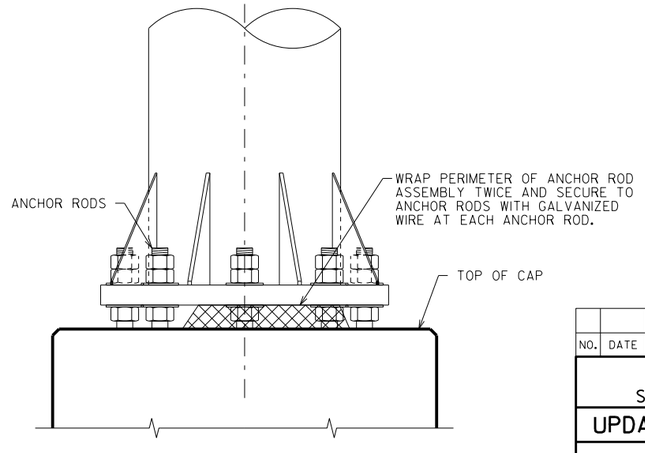
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



CONDUIT HOLE LOCATIONS



CONDUIT PLUG DETAILS



RODENT SCREEN

(ONLY REQ'D. WHEN ELECTRICAL DEVICES ARE INSTALLED)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

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4-CHORD TRUSS CANT. ELECTRICAL DETAILS

SHEET VI OF VIII

995

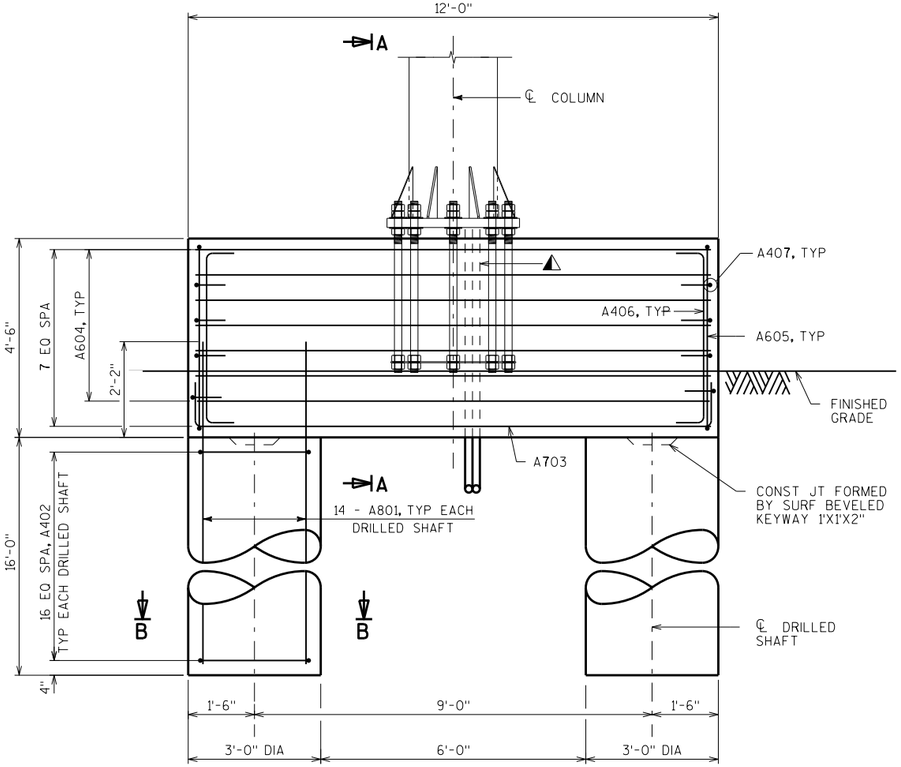
SCALE = 1.00

8

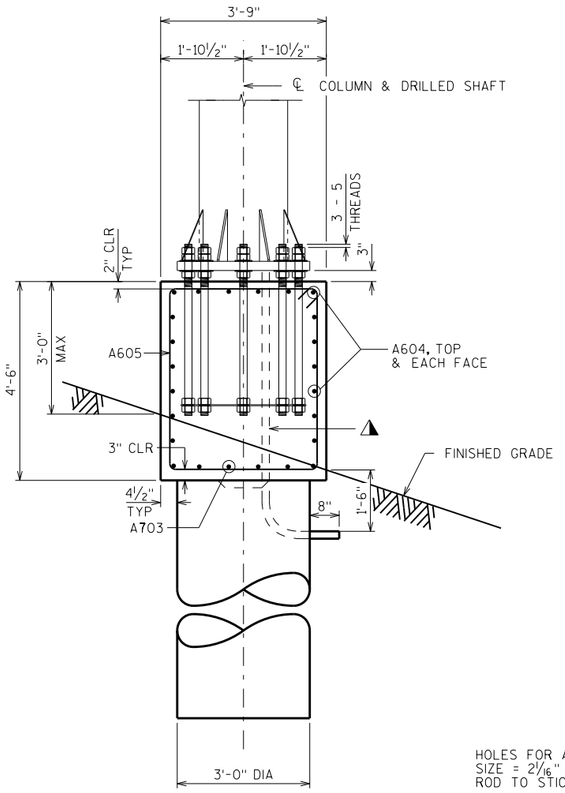
8

STATE PROJECT NUMBER

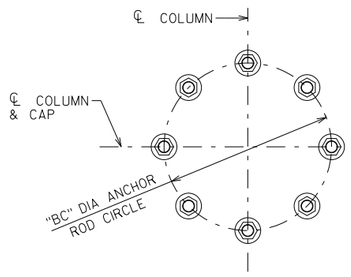
STANDARD



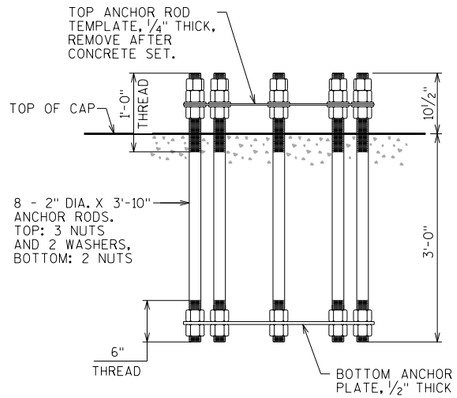
ELEVATION



SECTION A-A



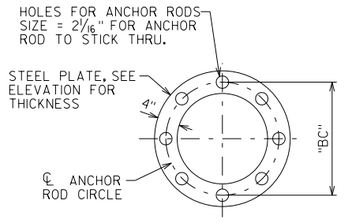
PLAN



ELEVATION

ANCHOR ROD ASSEMBLY DETAILS

SINGLE ASSEMBLY SHOWN
8 ANCHOR RODS REQ'D PER ASSEMBLY

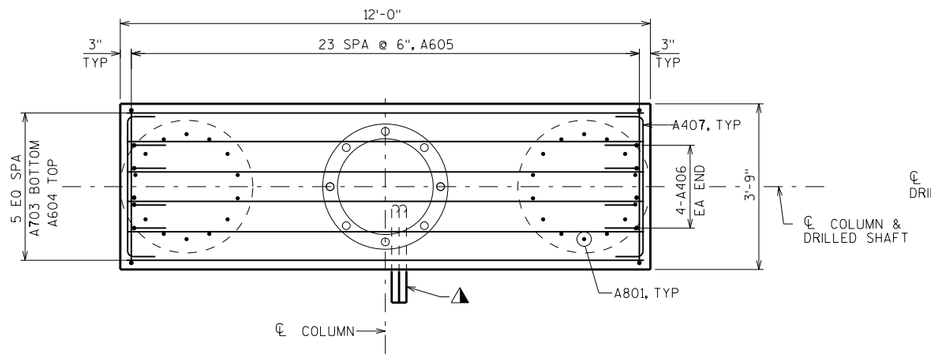


ANCHOR PLATE/TOP TEMPLATE

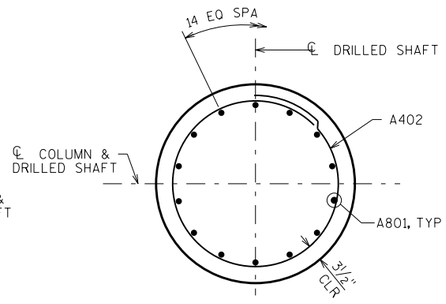
PLAN

ANCHOR PLATE DATA

STD DESIGN TRUSS	DIMENSIONS "BC"
I	2'-2"
II	2'-6"



PLAN



SECTION B-B

NOTES

CENTER ANCHOR ROD ASSEMBLY AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED ON PLAN. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

LEGEND

⚠ 2 - 2" DIA NONMETALLIC CONDUITS, INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO THE DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

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4-CHORD TRUSS CANT. FOUNDATION DETAILS 1

SHEET VII OF VIII

996

SCALE = 1.67

8

8

STATE PROJECT NUMBER

STANDARD

NOTE:
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

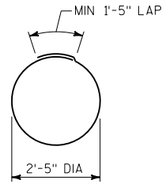
BILL OF BARS - STANDARD DESIGN TYPE I OR II

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		28	18'-2"			DRILLED SHAFT - VERTICAL
A402		34	9'-0"	X		DRILLED SHAFT - HORIZONTAL
A703	X	6	13'-7"	X		CAP - LONGITUDINAL - BOTTOM
A604	X	18	11'-8"			CAP - LONGITUDINAL - TOP & SIDES
A605	X	24	15'-10"	X		CAP - STIRRUP
A406	X	8	4'-7"	X		CAP - VERTICAL - EACH END
A407	X	8	3'-11"	X		CAP - HORIZONTAL - EACH END

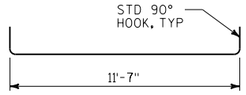
ESTIMATED QUANTITIES - FOUNDATION

STANDARD DESIGN TYPE	CONCRETE MASONRY (CY)	STEEL REINFORCEMENT HS (LBS)	STEEL REINFORCEMENT HS COATED (LBS)	ANCHOR ASSEMBLY 2-INCH (EACH)	FOUNDATION DRILLING 36" DIA. (LF)
I/II	16	1,570	1,100	1	32

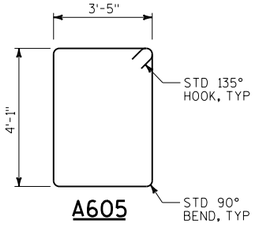
** QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON STANDARD STRUCTURE DIMENSIONS



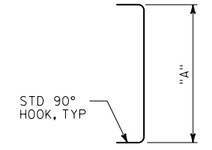
A402



A703



A605



A406, A407

BAR MARK	"A"
A406	3'-11½"
A407	3'-3½"

BAR BENDING DIAGRAMS

NOTE:
BAR DIMENSIONS ARE OUT TO OUT OF BAR. THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

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4-CHORD TRUSS
CANT. FOUNDATION
DETAILS 2

SHEET VIII OF VIII

997

SCALE = 0.50

STATE PROJECT NUMBER

3080-01-76

DESIGN DATA

DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", IST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL

FOUNDATION DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD: WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD: 3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS.
WIND PRESSURE: 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1:	1.00	0.00
LOAD CASE 2:	0.00	1.00
LOAD CASE 3:	0.75	0.75

LOAD COMBINATIONS	
STRENGTH I:	1.25 DC + 1.6 LL
EXTREME I (MAX DC):	1.1 DC + 1.0 W + 1.0 ICE
EXTREME I (MIN DC):	0.9 DC + 1.0 W
SERVICE I:	1.0 DC + 1.0 W
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION) 1.0 TRG (TRUCK INDUCED GUST VIBRATION)

MATERIAL PROPERTIES

CONCRETE MASONRY ---------- f'c = 3,500 psi

HIGH STRENGTH STEEL
REINFORCEMENT, GRADE 60 ---------- fy = 60,000 psi

STRUCTURAL ANGLES,
PLATE AND BARS - ASTM A709 GRADE 36 ---------- fy = 36,000 psi

CHORDS - ASTM A500 GRADE C ---------- fy = 46,000 psi

COLUMN PIPE
DESIGN TRUSS TYPE I - ASTM A500 GRADE C ---------- fy = 46,000 psi
DESIGN TRUSS TYPE II - API 5L PSL2 GRADE 46 ---------- fy = 46,000 psi

HIGH STRENGTH BOLTS - A325 ---------- fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ---------- fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

SIGN STRUCTURE FOUNDATION (S-13-569) IS SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE FOR DESIGN IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE, ACTUAL WATER LEVEL AT SITE MAY VARY. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

TEMPORARY FULL-LENGTH CASING IS RECOMMENDED DURING DRILLING AND PLACEMENT OF CONCRETE FOR DRILLED SHAFTS AT S-13-569 & S-13-571, DUE TO THE PRESENCE OF SHALLOW WATER.

SEE SHEET 4 FOR S-13-571 NON-STANDARD FOUNDATION DETAILS. GEOTECHNICAL INVESTIGATION REPORT IS AVAILABLE UPON REQUEST.

STRUCTURE DATA

SIGN STR	ACTUAL SIGN AREA	ACTUAL SIGN DEPTH	STANDARD DESIGN TRUSS
S-13-569	152.5 SF	8'-6"	FC-I
S-13-571	200 SF	12'-6"	FC-I

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), DANE COUNTY ZONE, NAD 83 (2011). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "TRUSS CANTILEVER 4-CHORD (TYPE)" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

CATWALKS ARE USED ON 4-CHORD STRUCTURES CARRYING DMS SIGNS. CATWALKS SHALL BE INCIDENTAL TO THE BID ITEM "TRUSS CANTILEVER 4-CHORD (TYPE)" FOR EACH DMS SIGN STRUCTURE IN THE PLAN SET.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

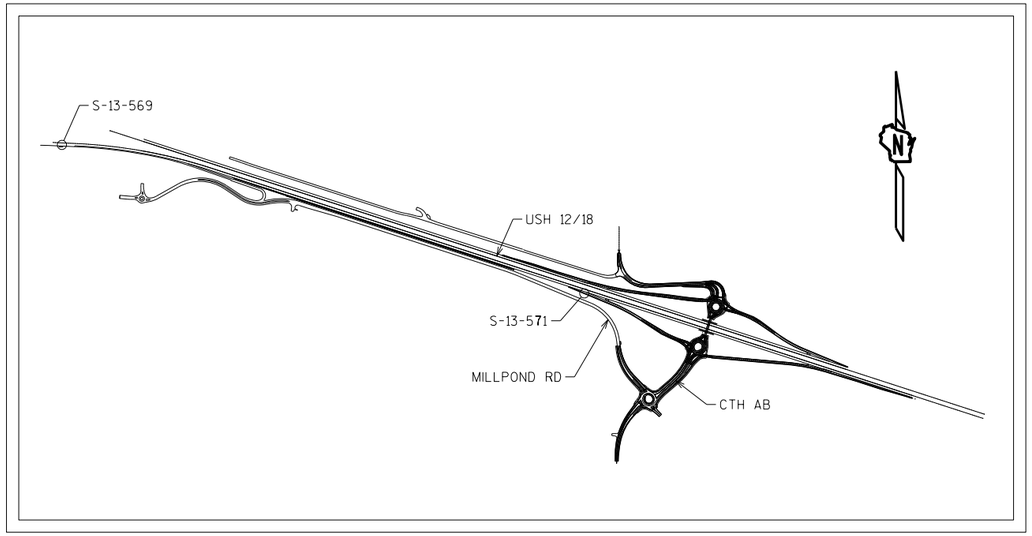
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "DRILLING SHAFT 36-INCH".

TRAFFIC VOLUME

USH 12/18 'EB'
ADT = 19,100 (2043)
R.D.S. = 60 M.P.H.

USH 12/18 EB RAMP A
ADT = 4,100 (2043)
R.D.S. = 50 M.P.H.



LOCATION MAP

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-13-569
3. GENERAL LAYOUT S-13-571
4. 4-CHORD TRUSS CANT. FOUNDATION DETAILS S-13-571

LIST OF OSS STANDARD DESIGN DRAWINGS

5. I. 4-CHORD TRUSS CANTILEVER
6. II. 4-CHORD TRUSS CANT. CONNECTION DETAILS 1
7. III. 4-CHORD TRUSS CANT. CONNECTION DETAILS 2
8. IV. 4-CHORD TRUSS CANT. CONNECTION DETAILS 3
9. V. 4-CHORD TRUSS CANT. CATWALK DETAILS
10. VI. 4-CHORD TRUSS CANT. ELECTRICAL DETAILS
11. VII. 4-CHORD TRUSS CANT. FOUNDATION DETAILS 1
12. VIII. 4-CHORD TRUSS CANT. FOUNDATION DETAILS 2

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEM	UNIT	S-13-569	S-13-571
531.1100	CONCRETE MASONRY ANCILLARY STRUCTURES TYPE NS	CY	———	17
531.1140	STEEL REINFORCEMENT HS ANCILLARY STRUCTURES TYPE NS	LB	———	1,690
531.1160	STEEL REINFORCEMENT HS COATED ANCILLARY STRUCTURES TYPE NS	LB	———	1,100
531.2036	DRILLING SHAFT 36-INCH	LF	32	35
531.6010	FOUNDATION TWO-SHAFT TYPE FC-I (S-13-569)	EA	1	———
532.6010	TRUSS CANTILEVER 4-CHORD TYPE I (S-13-569)	EA	1	———
532.6010	TRUSS CANTILEVER 4-CHORD TYPE I (S-13-571)	EA	———	1

STRUCTURE DESIGN CONTACTS:
SHANNON LIPE (608) 266-2369
DOMINIQUE BECHLE (608) 261-8205

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES

ACCEPTED DMB 03/14/22
CHIEF STRUCTURES DESIGN ENGINEER DATE

4-CHORD TRUSS CANTILEVER PLANS

USH 12/18 EXIT TO MILLPOND RD

COUNTY	TOWN/CITY
DANE	BLOOMING GROVE/MADISON

DESIGN SPEC.
AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
SCL	LJR	SCL	LJR

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 12

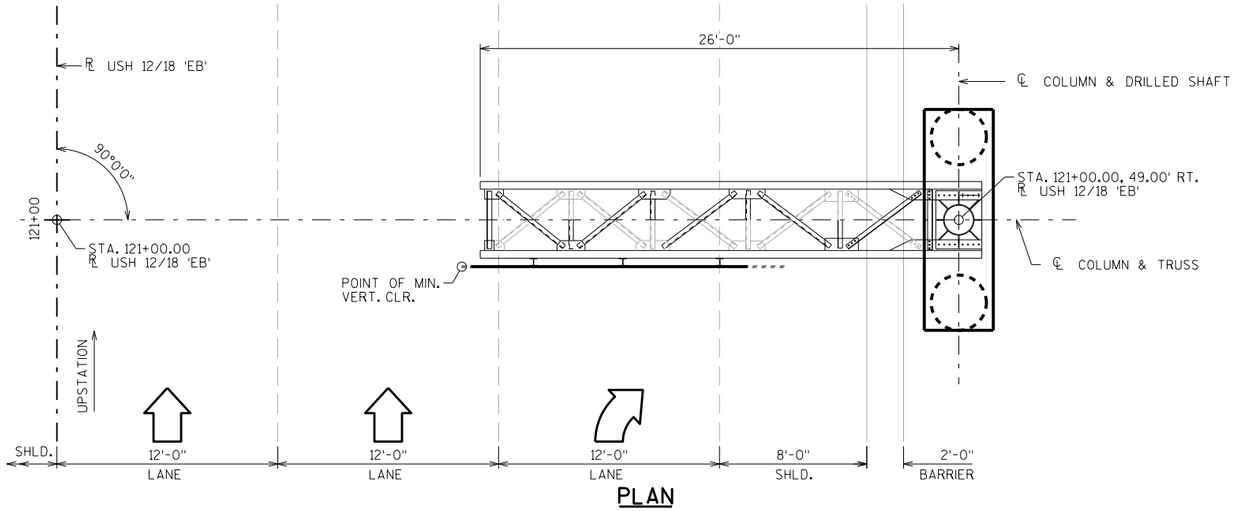
998

I.D. 3080-01-05K,M DATE: FEB. 2022

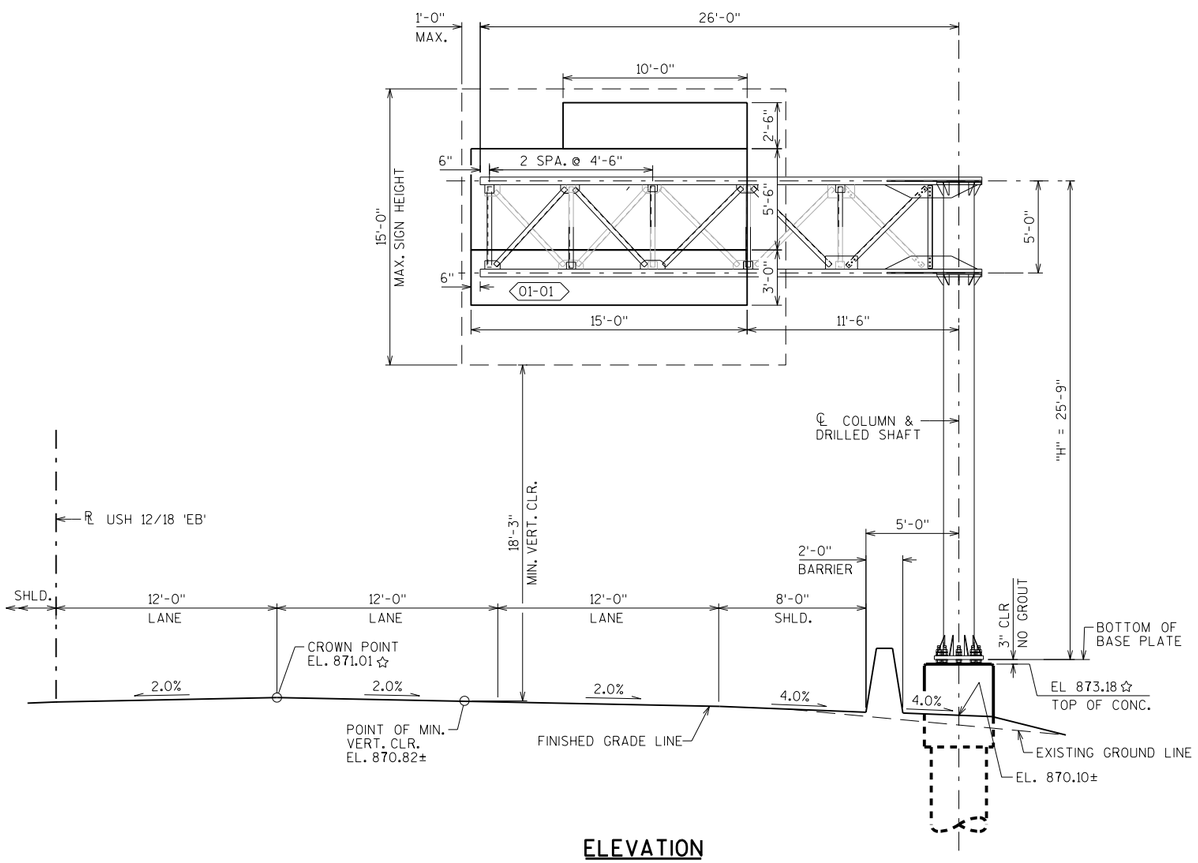
SCALE = 0.50

STATE PROJECT NUMBER

3080-01-76

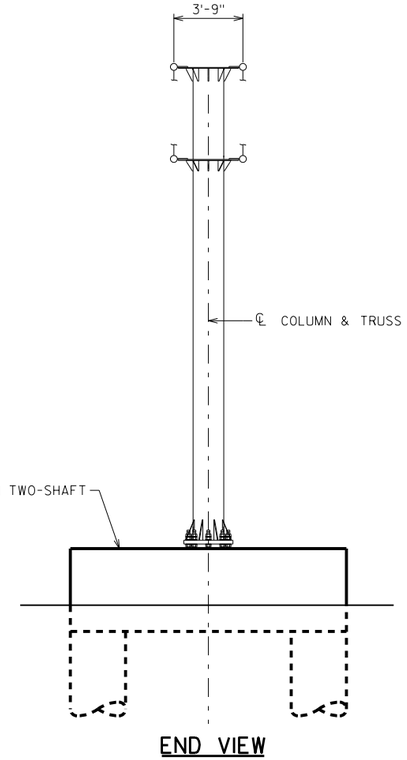


PLAN



ELEVATION

STA 121+00.00 'EB'
(LOOKING UPSTATION AT FRONT OF SIGN)



END VIEW

LOOKING NORTH

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA 120+97.46, 22.00' RT.
℄ USH 12/18 'EB'
EL. 870.82±

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ TRUSS

XX-XX SIGN NUMBERS (SEE PERMANENT SIGNING PLAN)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-569

DRAWN BY SCL | PLANS CK'D. LJR

GENERAL LAYOUT
S-13-569

SHEET 2

999

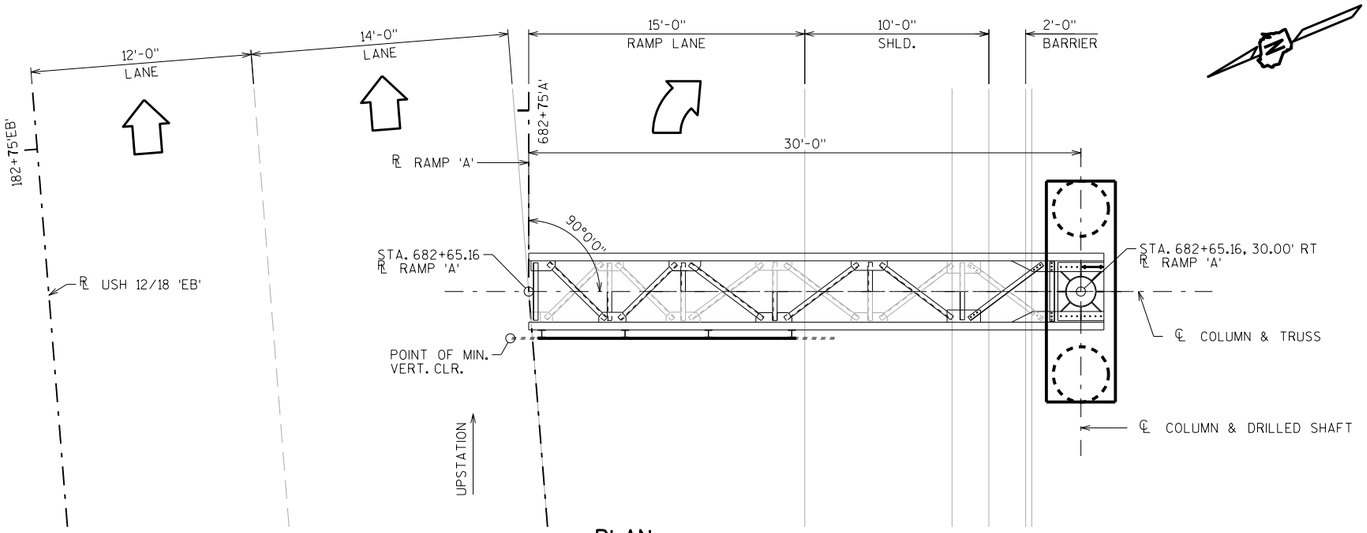
SCALE = 4.00

8

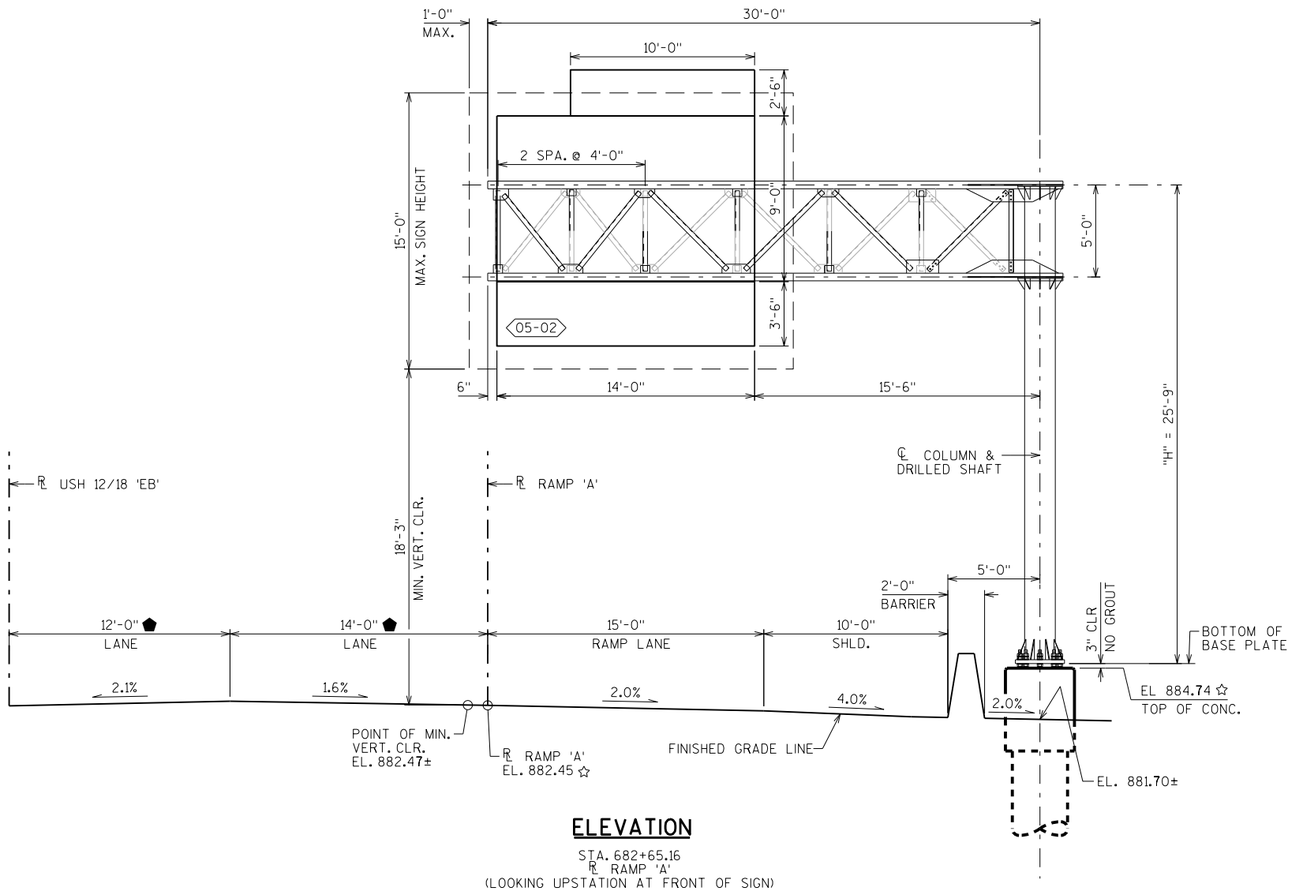
8

STATE PROJECT NUMBER

3080-01-76



PLAN



ELEVATION

STA. 682+65.16
℄ RAMP 'A'
(LOOKING UPSTATION AT FRONT OF SIGN)

NOTE

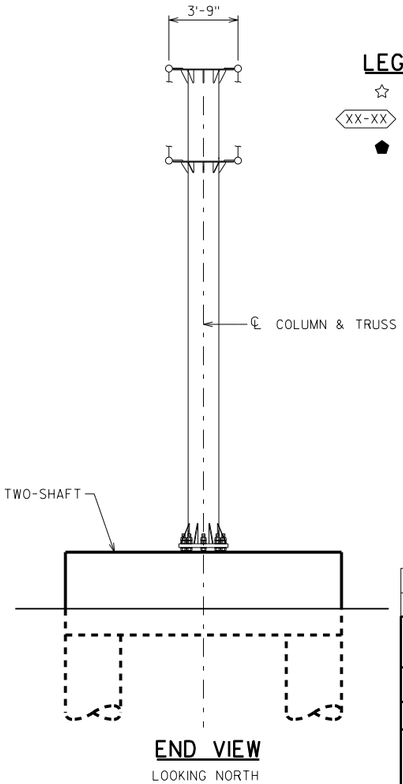
POINT OF MIN VERTICAL CLEARANCE
STA 682+62.67, 1.20' LT
℄ RAMP 'A'
EL. 882.47±

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ TRUSS

XX-XX SIGN NUMBERS (SEE PERMANENT SIGNING PLAN)

⬟ MEASURED NORMAL TO ℄ USH 12/18 'EB'



END VIEW

LOOKING NORTH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-571

DRAWN BY SCL | PLANS CK'D. LJR

GENERAL LAYOUT
S-13-571

SHEET 3

1000

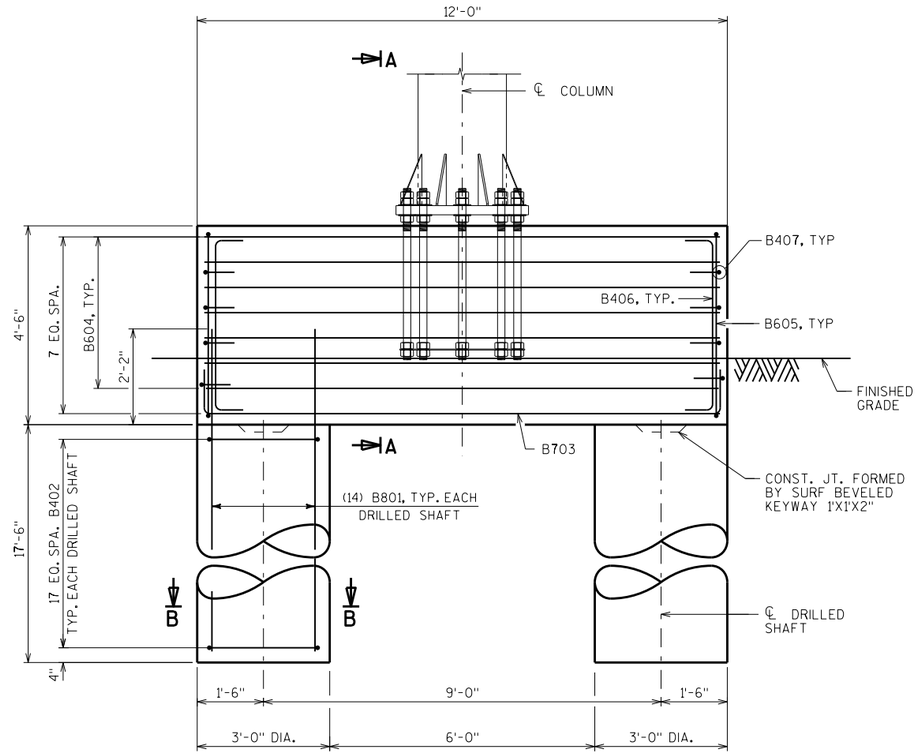
SCALE = 4.00

8

8

STATE PROJECT NUMBER

3080-01-76



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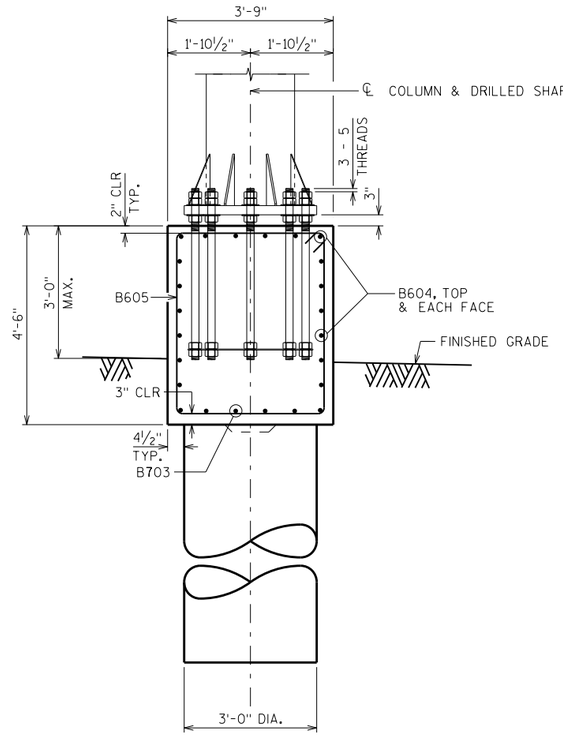
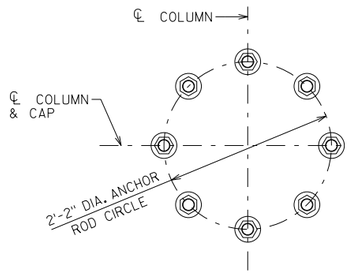
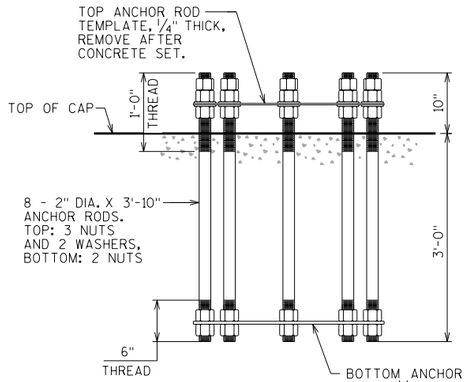


SECTION A-A



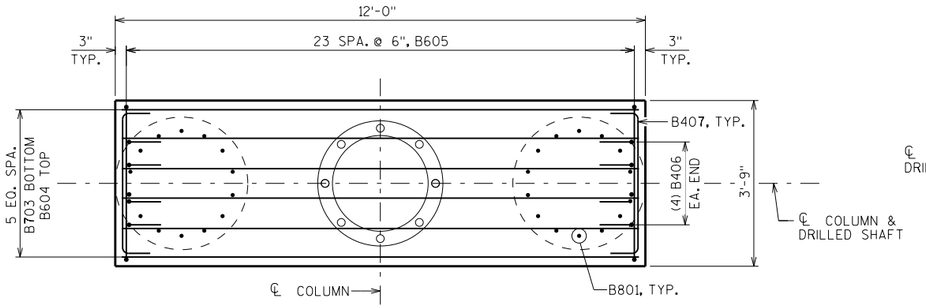
PLAN



ELEVATION

ANCHOR ROD ASSEMBLY DETAILS

SINGLE ASSEMBLY SHOWN
8 ANCHOR RODS REQ'D PER ASSEMBLY



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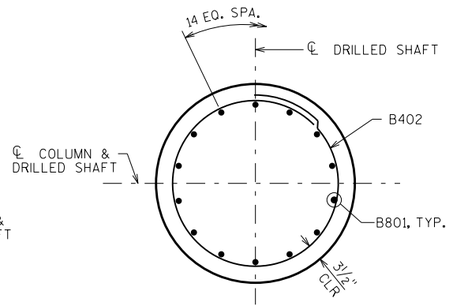
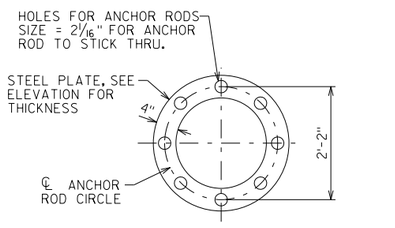


SECTION B-B



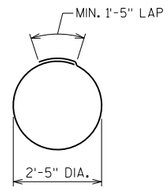
ANCHOR PLATE/TOP TEMPLATE

PLAN

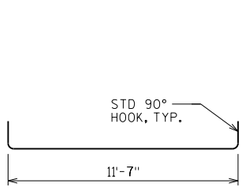
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B801		28	19'-8"			DRILLED SHAFT - VERTICAL
B402		36	9'-0"	X		DRILLED SHAFT - HORIZONTAL
B703	X	6	13'-7"	X		CAP - LONGITUDINAL - BOTTOM
B604	X	18	11'-8"			CAP - LONGITUDINAL - TOP & SIDES
B605	X	24	15'-10"	X		CAP - STIRRUP
B406	X	8	4'-7"	X		CAP - VERTICAL - EACH END
B407	X	8	3'-11"	X		CAP - HORIZONTAL - EACH END



B402



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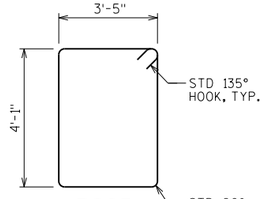

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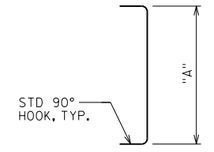


B406, B407

BAR MARK	"A"
B406	3'-11½"
B407	3'-3½"

NOTES

CENTER ANCHOR ROD ASSEMBLY AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED ON PLAN. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-571

DRAWN BY ARC | PLANS CK'D. LJR

4-CHORD TRUSS CANT. FOUNDATION DETAILS S-13-571

SHEET 4

1001

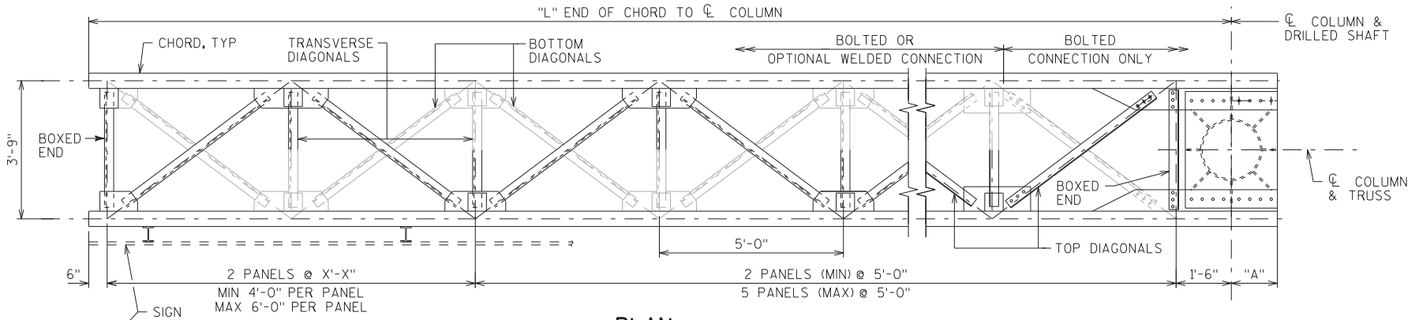
SCALE = 1.67

8

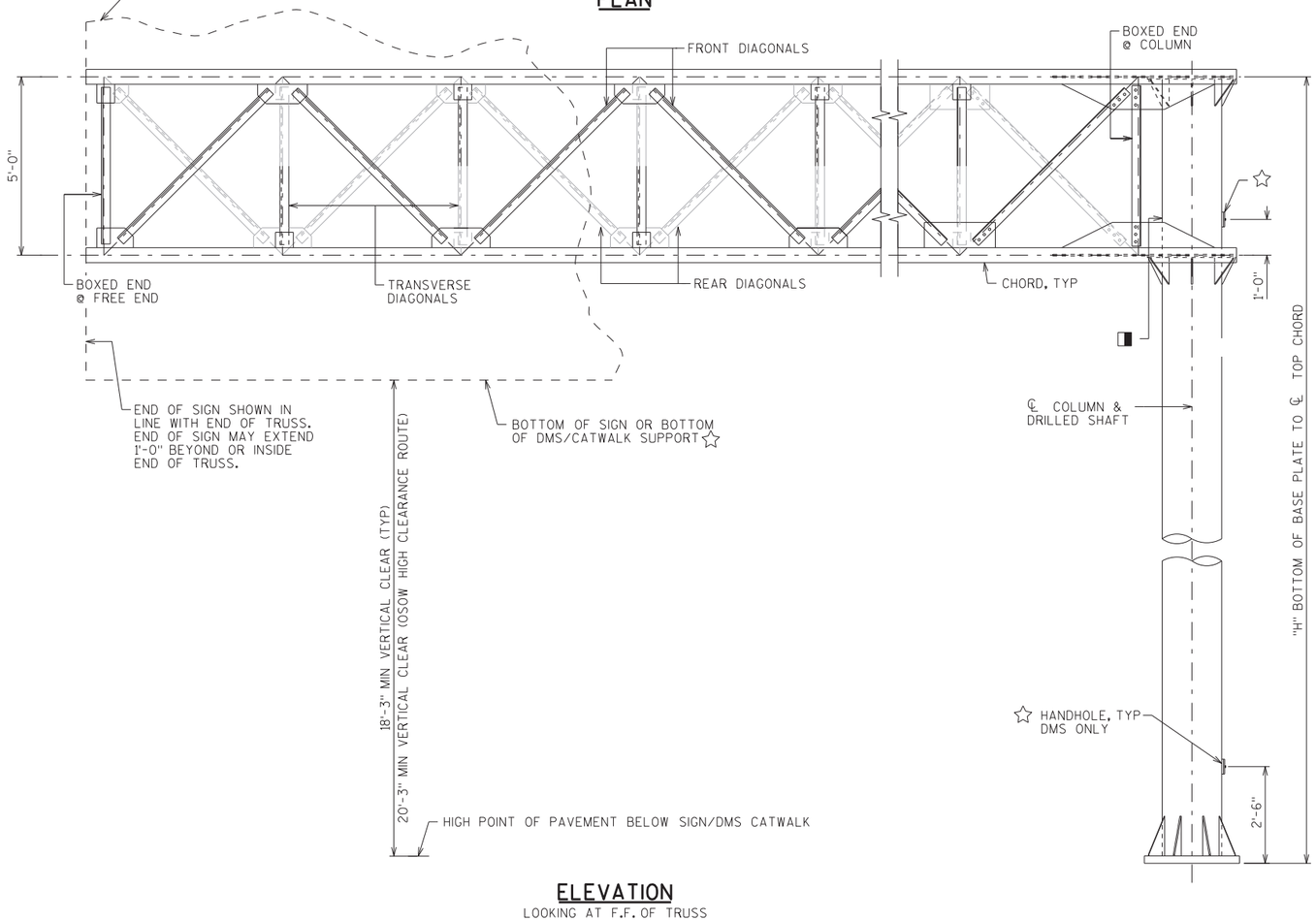
8

STATE PROJECT NUMBER

STANDARD

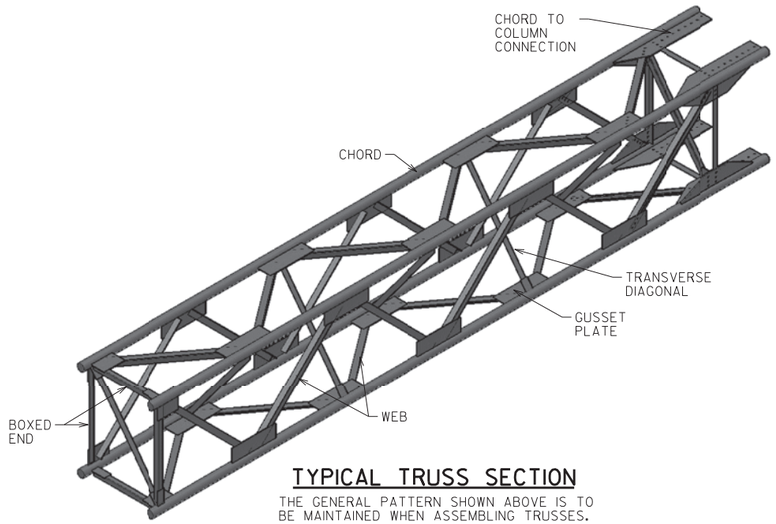


PLAN



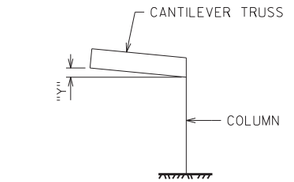
ELEVATION

LOOKING AT F.F. OF TRUSS



TYPICAL TRUSS SECTION

THE GENERAL PATTERN SHOWN ABOVE IS TO BE MAINTAINED WHEN ASSEMBLING TRUSSES.



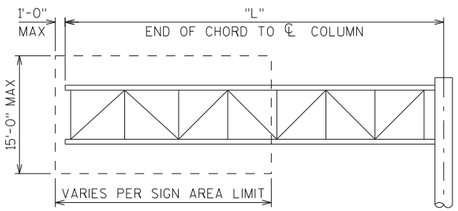
CAMBER DIAGRAM

PREFABRICATE CAMBER INTO THE HORIZONTAL SUPPORT PROVIDING AN AMOUNT "Y" AT THE END OF TRUSS AS SHOWN. DO NOT RAKE VERTICAL COLUMN BY ADJUSTMENT OF LEVELING NUTS.

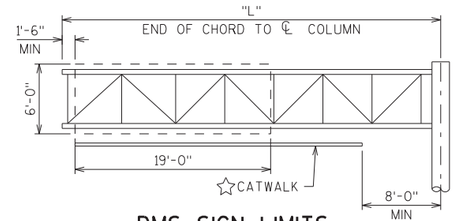
CAMBER VALUES

DIM "L" / "H"	"Y" (IN) 30' TYPE I	30' DMS	38' TYPE I	38' DMS
22'	2 1/4"	3 1/2"	2 5/8"	4 1/8"
24'	2 3/8"	3 7/8"	2 7/8"	4 1/2"
26'	2 1/2"	4 1/8"	3 1/8"	4 7/8"
28'	2 3/4"	4 1/2"	3 1/4"	5 1/4"
30'	2 7/8"	4 3/4"	3 1/2"	5 5/8"

INTERPOLATE FOR VALUES NOT SHOWN.
DMS VALUES INCLUDE DL OF CATWALK.



TYPE 1 SIGN LIMITS



DMS SIGN LIMITS

2,500 LB MAX DMS WEIGHT, INCLUDES DMS VERTICAL SUPPORT MEMBERS

CANTILEVER 4-CHORD TRUSS MEMBER TABLE

STANDARD DESIGN TRUSS	TYPE I SIGN AREA (FT^2)	DMS AREA (FT^2)	MAXIMUM SPAN "L"	MAXIMUM COL HEIGHT "H"	DIM "A"	COLUMN OUTER DIA. X THK	CHORD OUTER DIA. X THK	WEB W X D X THK	BOXED END W X D X THK	TRANSVERSE DIAGONAL W X D X THK
I	264	114	30'-0"	30'-0"	1'-3"	20.00" X 0.500"	5.000" X 0.375"	L3X3X1/4	L3X3X1/4	L3X3X1/4
II	240	114	38'-0"	30'-0"	1'-4 1/2"	24.00" X 0.500"	5.563" X 0.375"	L3X3X5/16	L3X3X1/4	L3X3X1/4

LEGEND

☆ FOR OSS WITH DMS ONLY, PROVIDE HANDHOLES AS SHOWN. SEE "CATWALK DETAILS" AND "ELECTRICAL DETAILS" SHEETS.

◨ FOR OSS WITH DMS ONLY, DRILL HOLE AND TAP FOR (2) 2" STD. PIPE THREADS. LOCATE BOTTOM HOLE 6" UP FROM TOP OF BOTTOM CHORD AND SPACE VERTICALLY AT 6" C/C. PLACE CONDUIT PLUG IN HOLES THAT ARE NOT USED FOR WIRING SIGN PANELS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

4-CHORD TRUSS CANTILEVER

SHEET I OF VIII

1002

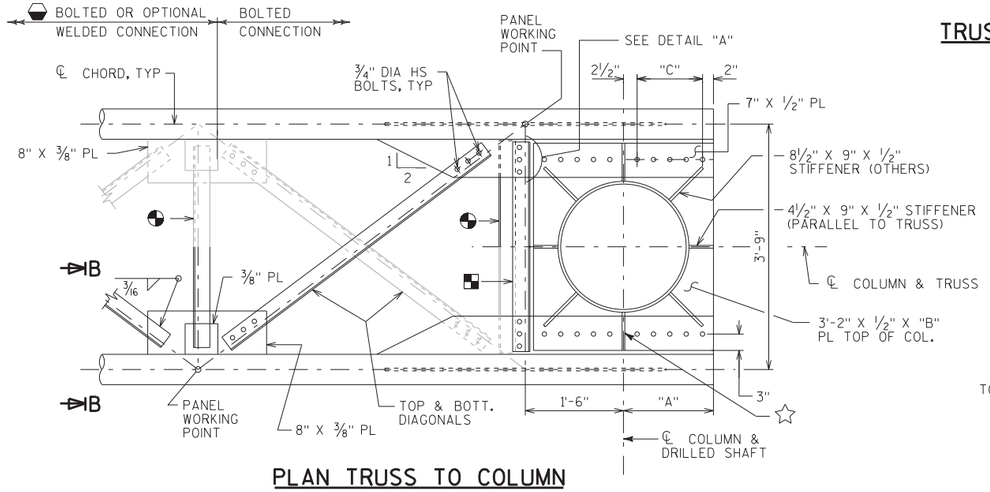
SCALE = 2.00

8

8

STATE PROJECT NUMBER

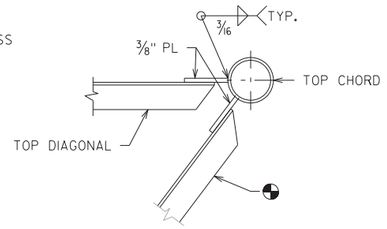
STANDARD



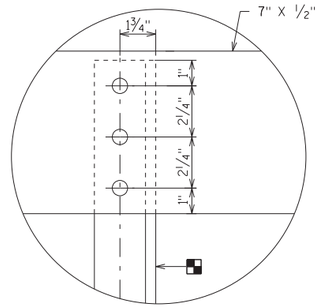
PLAN TRUSS TO COLUMN

TRUSS TO COLUMN CONNECTION DATA

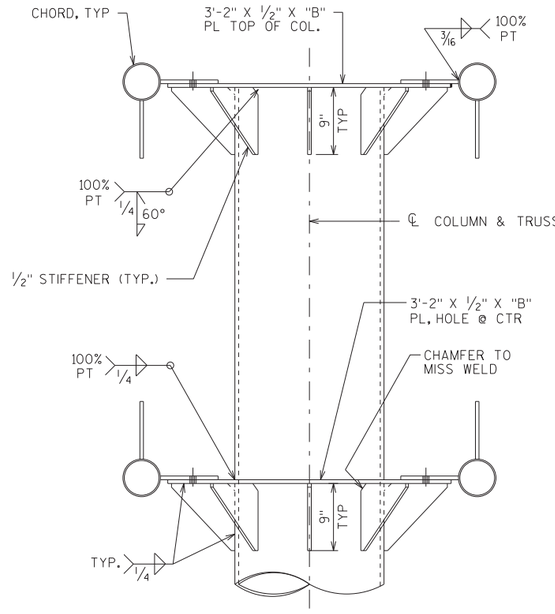
STANDARD DESIGN TYPE	"A"	"B"	"C"
I	1'-3"	2'-6"	3 SPA @ 3½"
II	1'-4½"	2'-9"	4 SPA @ 3"



SECTION B-B

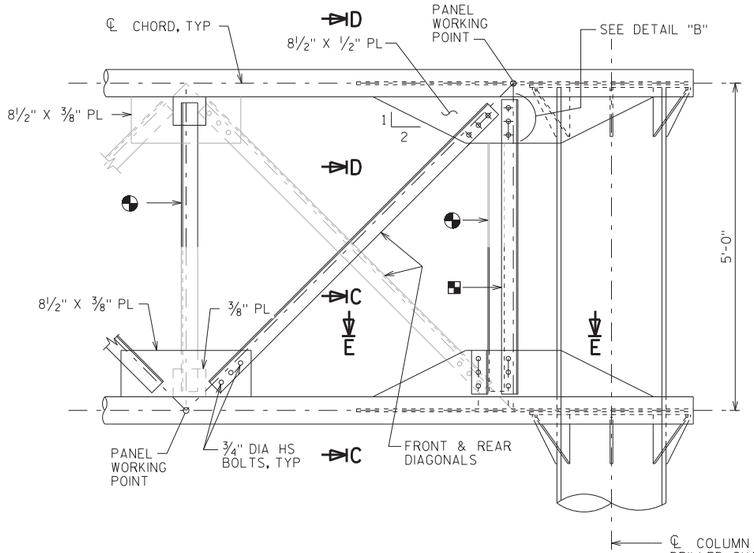


DETAIL "A"

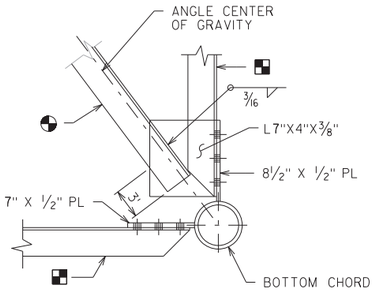


END VIEW TRUSS TO COLUMN

(WEB MEMBERS NOT SHOWN)

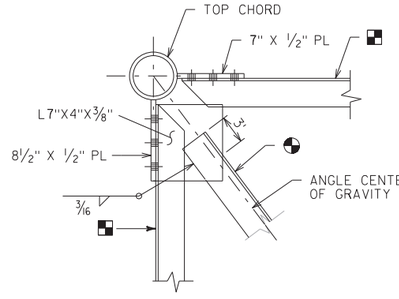


ELEVATION TRUSS TO COLUMN



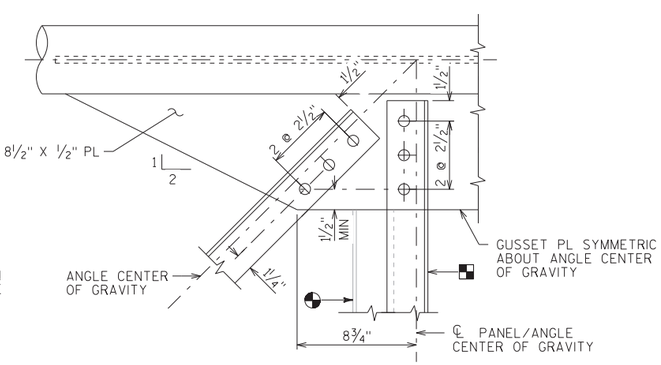
SECTION C-C

(FRONT CHORD)

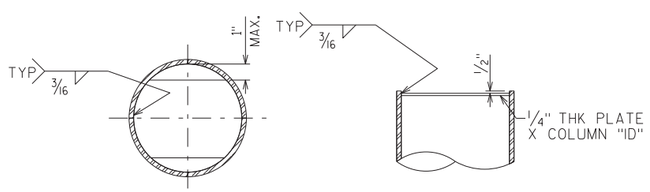


SECTION D-D

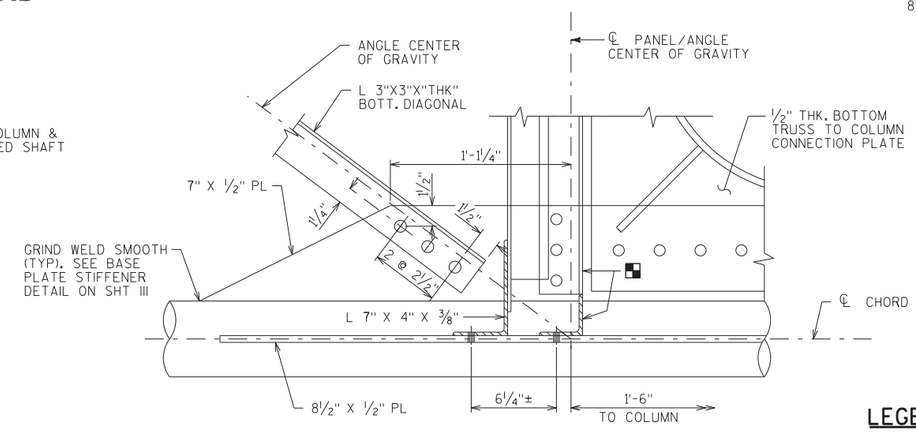
(BACK CHORD)



DETAIL "B"



CHORD CAP DETAIL



SECTION E-E

(LOOKING DOWN @ BOTT. HORIZ. PLANE @ FRONT CHORD)

LEGEND

- TRANSVERSE DIAGONAL
- BOXED END @ SUPPORT
- WELDED CONNECTIONS MAY BE USED IF UNIT CAN BE GALVANIZED IN ONE PIECE.
- 7" X 9" X ½" STIFFENER STD DESIGN TYPE 2 ONLY, TYP OPPOSITE SIDE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

4-CHORD TRUSS CANT. CONNECTION DETAILS 1

SHEET II OF VIII

1003

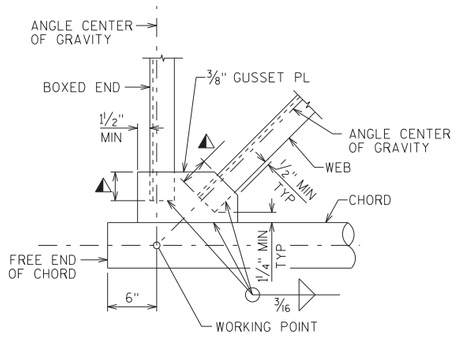
8

8

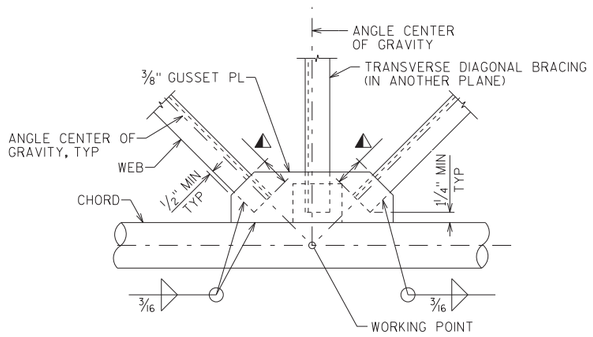
SCALE = 2.25

STATE PROJECT NUMBER

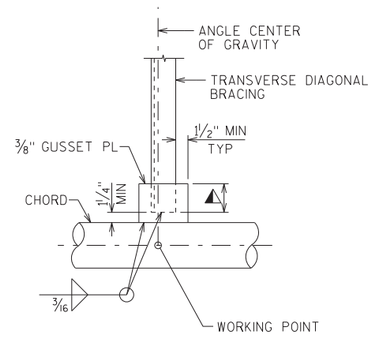
STANDARD



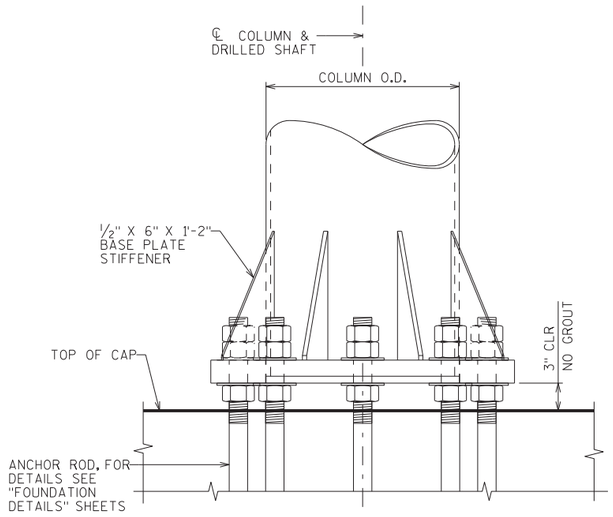
WELDED BOXED END CONNECTION



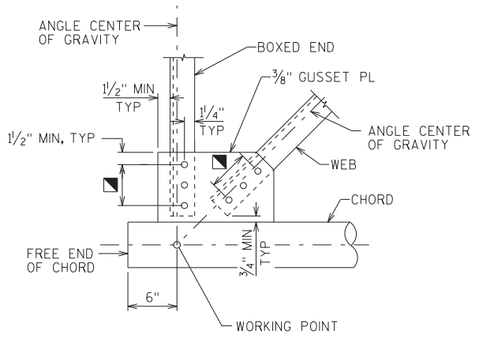
WELDED PANEL CONNECTION



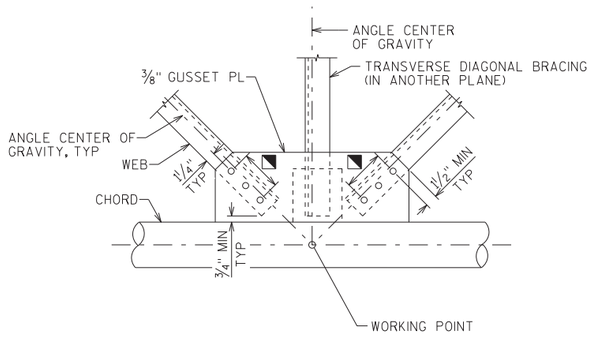
WELDED INTERIOR DIAGONAL CONNECTION



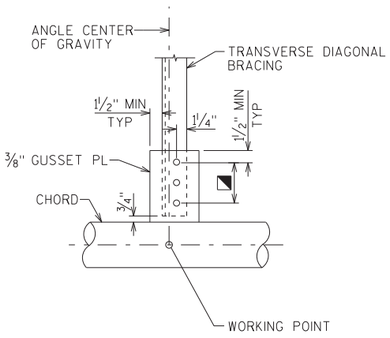
BASE PLATE & COLUMN DETAIL



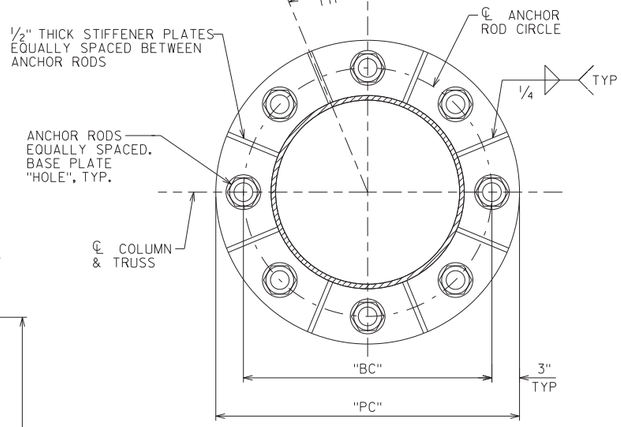
BOLTED BOXED END CONNECTION



BOLTED PANEL CONNECTION

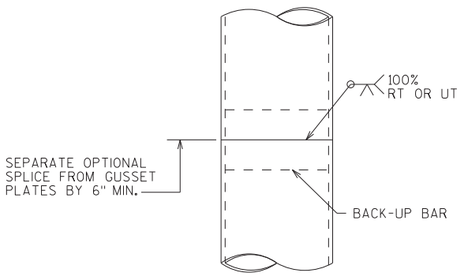


BOLTED INTERIOR DIAGONAL CONNECTION



BASE PLATE

PLAN



OPTIONAL COLUMN OR CHORD SPLICE DETAIL

NOTE

FABRICATOR HAS THE OPTION TO USE NON-MITERED, RECTANGULAR GUSSET PLATES IN LIEU OF MITERED PLATES SHOWN ON THESE DETAILS.

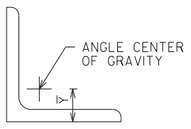
MEMBER CONNECTION DATA

STANDARD DESIGN TYPE	WELD LEG LENGTH ◭	NO. OF BOLTS ◪
I	3" MIN	3
II	3" MIN	3

FOR ALL ANGLE TO GUSSET CONNECTIONS, BOLT SPACING = 2 1/2"

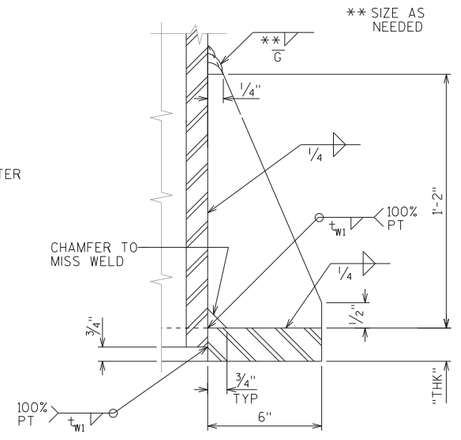
ANGLE DATA

ANGLE SIZE	$\bar{Y}$
L3x3x1/4	0.836"
L3x3x5/16	0.860"



CANTILEVER 4-CHORD COLUMN DATA TABLE

STANDARD DESIGN TYPE	COLUMN OUTER DIA X THK	BASE PLATE				
		"T_{W1}"	"HOLE"	"THK"	"BC"	"PC"
I	20.00" X 0.500"	5/16"	2 1/4"	2"	2'-2"	2'-8"
II	24.00" X 0.500"	5/16"	2 1/4"	2 1/2"	2'-6"	3'-0"



BASE PLATE STIFFENER DETAIL

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4-CHORD TRUSS CANT. CONNECTION DETAILS 2

SHEET III OF VIII

1004

SCALE = 1.50

8

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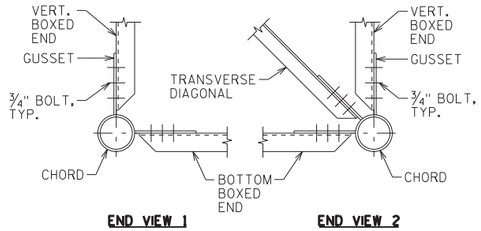
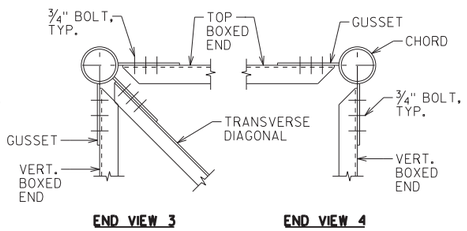
STATE PROJECT NUMBER

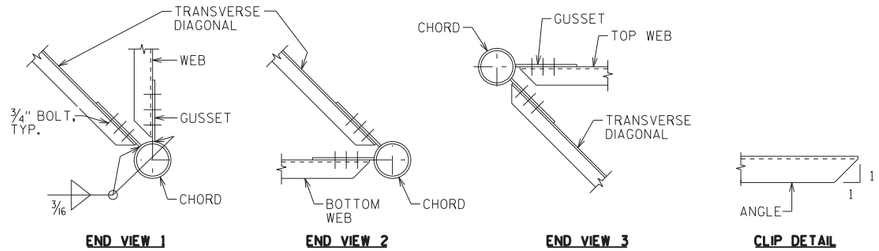
STANDARD



END VIEW 1 END VIEW 2



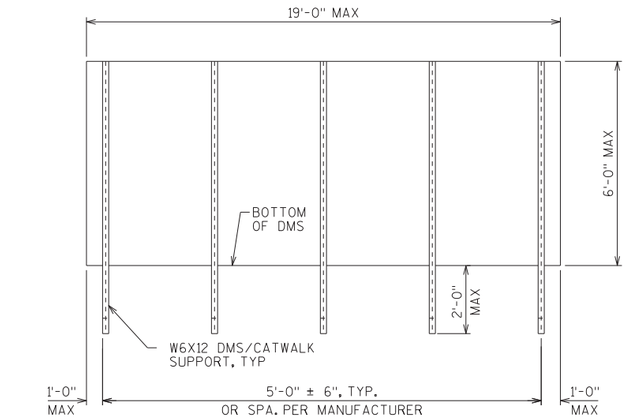
END VIEW 3 END VIEW 4



END VIEW 1 END VIEW 2 END VIEW 3 CLIP DETAIL

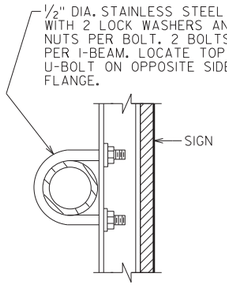
TRUSS CONNECTION DETAILS

BOLTED CONNECTIONS SHOWN, NUMBER OF BOLTS BY DESIGN
WELDED CONNECTIONS SIMILAR

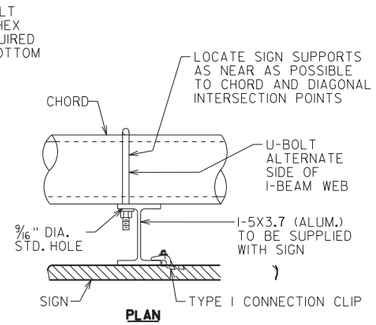


DMS MOUNTING POST SPACING DETAIL

POST SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED.



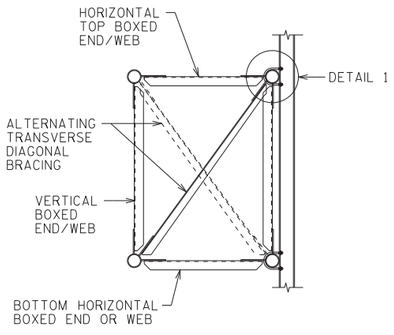
DETAIL 1



PLAN

TYPICAL SIGN CONNECTION

USE FOR TYPE I AND II SIGNS
SEE SIGN PLATE MANUAL A4-7A & A4-7B FOR DETAILS

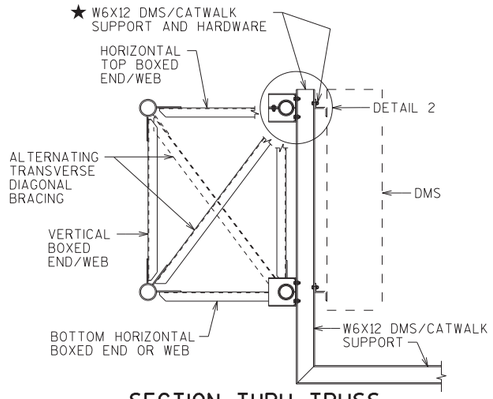


SECTION THRU TRUSS

FOR SIGN CONNECTION

ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH THE SIGN PANEL

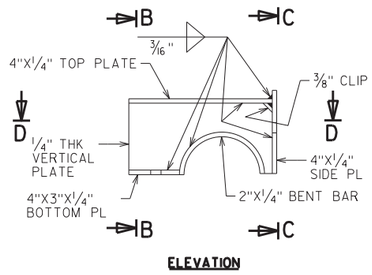
HARDWARE TO BE SUPPLIED BY THE CONTRACTOR



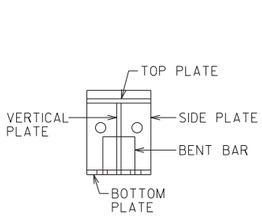
SECTION THRU TRUSS

FOR DMS/CATWALK CONNECTION

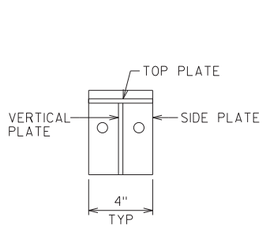
★ W6X12 SUPPORTS AND HARDWARE ARE TO BE SUPPLIED BY THE CONTRACTOR. ½" STAINLESS BOLT, NUT, WASHER AND LOCK WASHER REQUIRED, 4 PER W6X12.



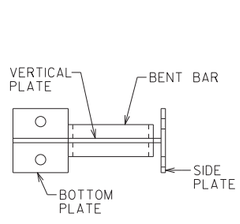
ELEVATION



SECTION B-B



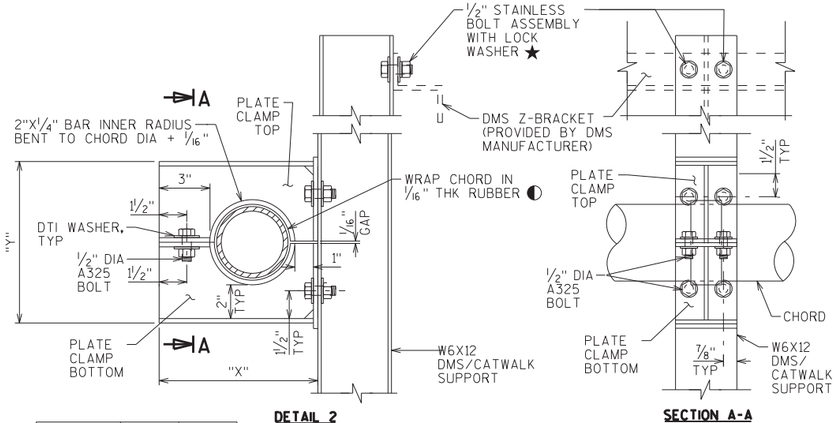
SECTION C-C



SECTION D-D

DMS WELDED PLATE CONNECTION DETAILS

TOP PLATE CLAMP SHOWN
BOTTOM PLATE CLAMP SIMILAR

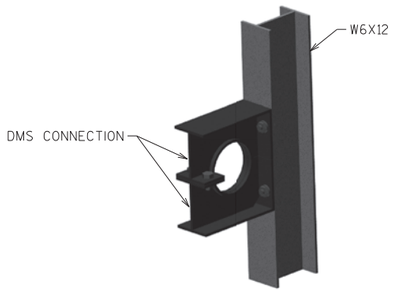


DETAIL 2 SECTION A-A

CHORD OUTER DIA	"X"	"Y"
5.000"	9 13/16"	10 1/16"
5.563"	10 3/8"	10 5/8"

TYPICAL DMS CONNECTION

◐ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD SPEC 506.2.6.1



3-D VIEW DMS CONNECTION

CHORD NOT SHOWN FOR CLARITY

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STRUCTURES DESIGN SECTION

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4-CHORD TRUSS CANT. CONNECTION DETAILS 3

SHEET IV OF VIII

1005

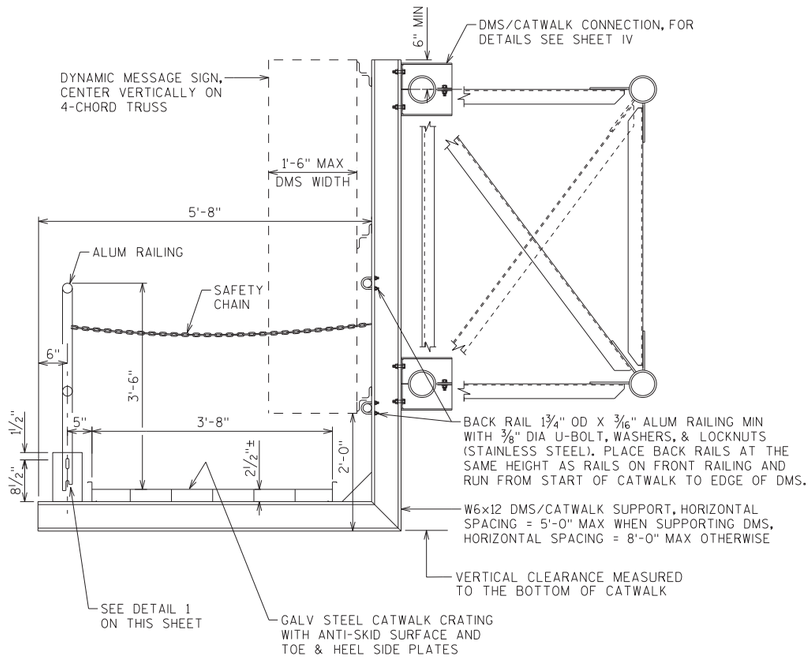
SCALE = 2.00

8

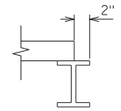
8

STATE PROJECT NUMBER

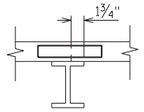
STANDARD



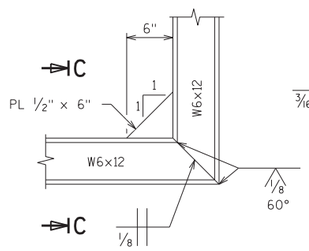
SECTION THRU WALKWAY



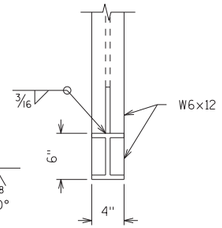
CATWALK TERMINATION DETAIL



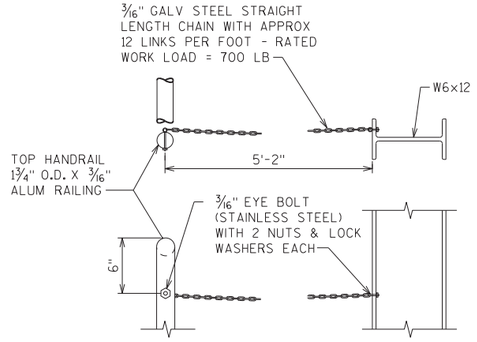
CATWALK SPLICE LOCATION DETAIL



BRACKET DETAIL

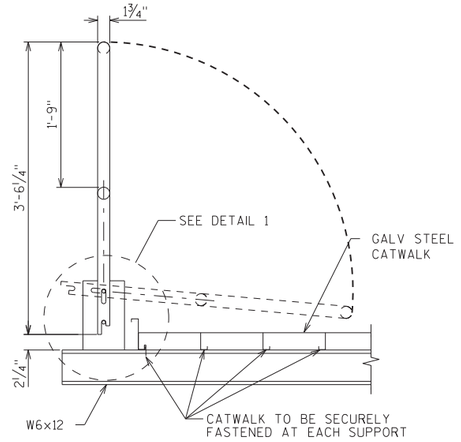


SECTION C-C

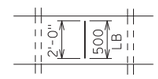


SAFETY CHAIN DETAIL

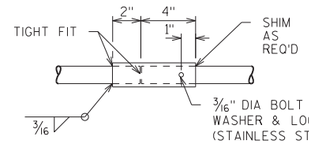
(PROVIDE SAFETY CHAIN AT EACH END OF THE CATWALK)



RAIL POST DETAIL

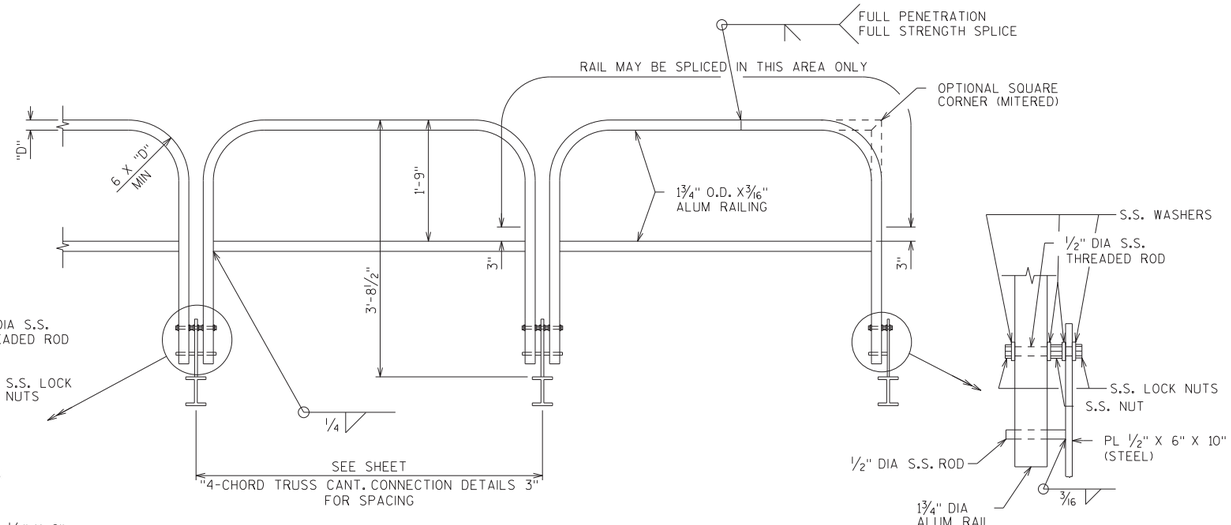


NOTE:
CATWALK GRATING SHALL MEET THE CURRENT AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", (500 LB LIVE LOAD DISTRIBUTED OVER 2'-0" TRANSVERSELY - MAX SPAN IS 8'-0"). CATWALK SHALL ALSO MEET CURRENT OSHA STD'S FOR WALKING-WORKING SURFACES.

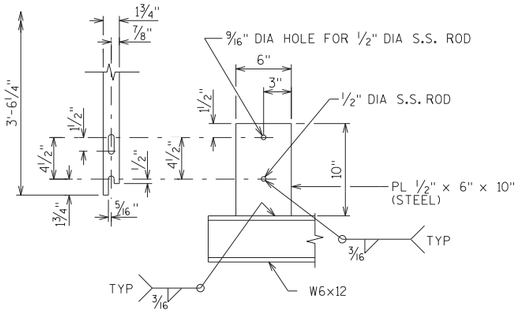


BACKRAIL SPLICE

ONE SPLICE ALLOWED FOR LENGTHS OVER 30'-0"



TYPICAL FRONT RAILING DETAILS



DETAIL 1

NO.	DATE	REVISION	BY

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4-CHORD TRUSS CANT. CATWALK DETAILS

SHEET V OF VIII

1006

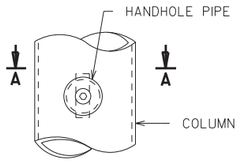
SCALE = 1.25

8

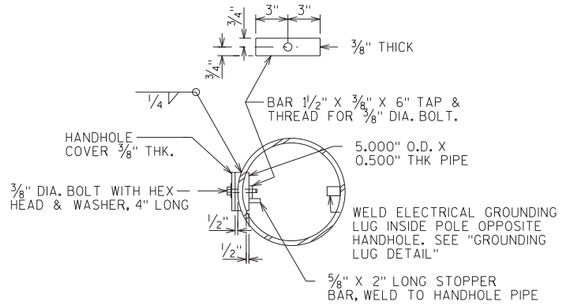
8

STATE PROJECT NUMBER

STANDARD



HANDHOLE DETAILS

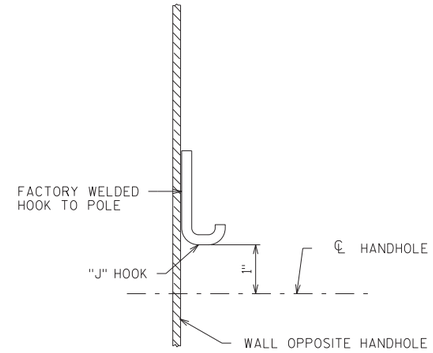


SECTION A-A

HANDHOLE NOTES

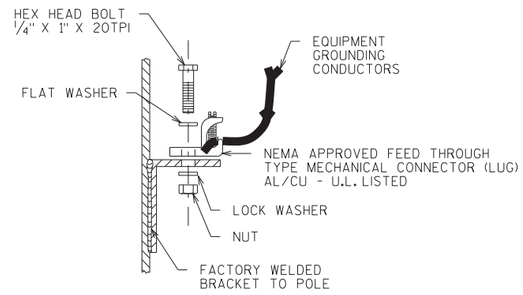
HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN BRIDGE STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGION TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN BRIDGE COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL PLAN DETAIL SHEETS.

UNLESS NOTED OTHERWISE, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER THE WISDOT STANDARD SPECIFICATIONS.



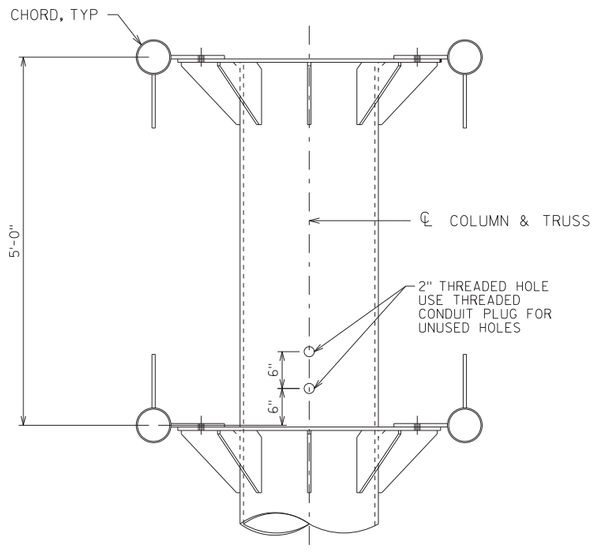
TYPICAL "J" HOOK LOCATION

THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.

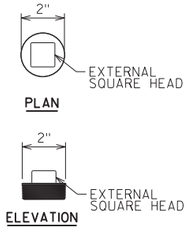


GROUNDING LUG DETAIL

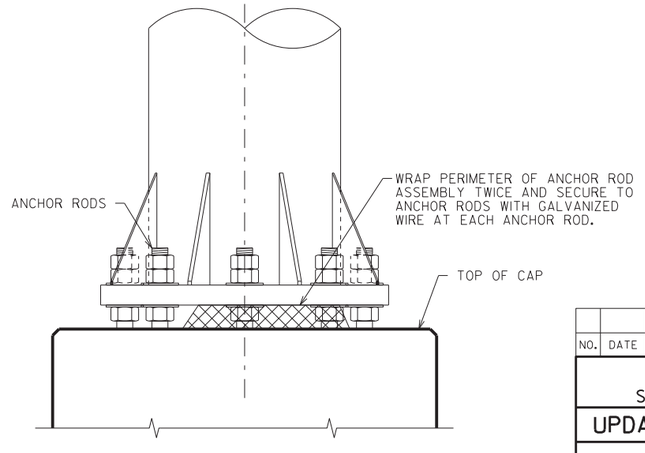
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



CONDUIT HOLE LOCATIONS



CONDUIT PLUG DETAILS



RODENT SCREEN

(ONLY REQ'D. WHEN ELECTRICAL DEVICES ARE INSTALLED)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

4-CHORD TRUSS CANT. ELECTRICAL DETAILS

SHEET VI OF VIII

1007

SCALE = 1.00

8

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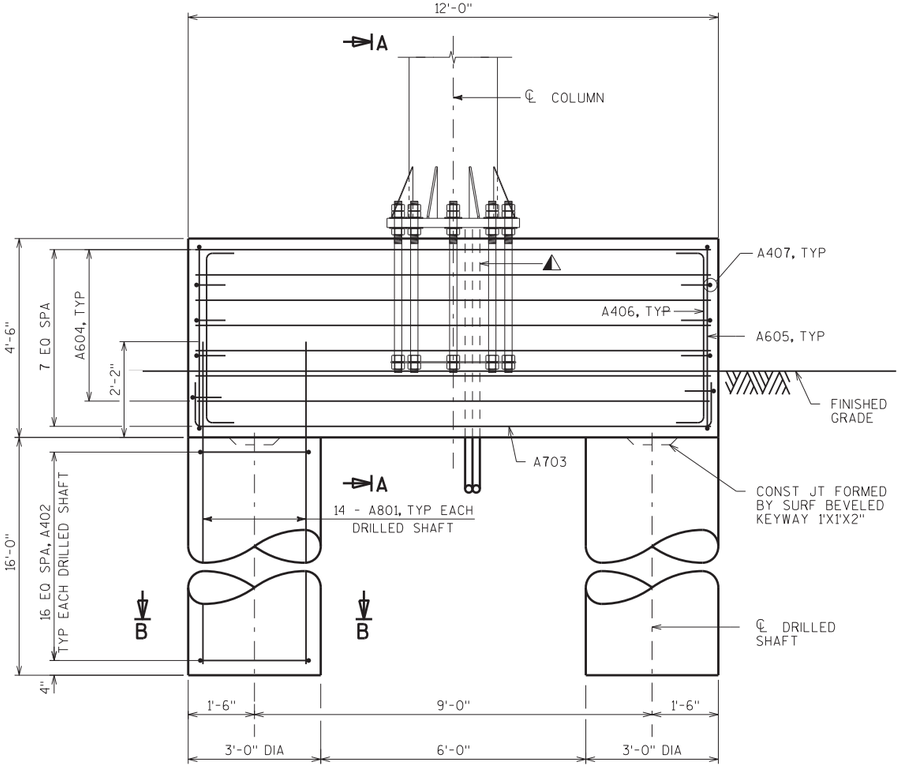
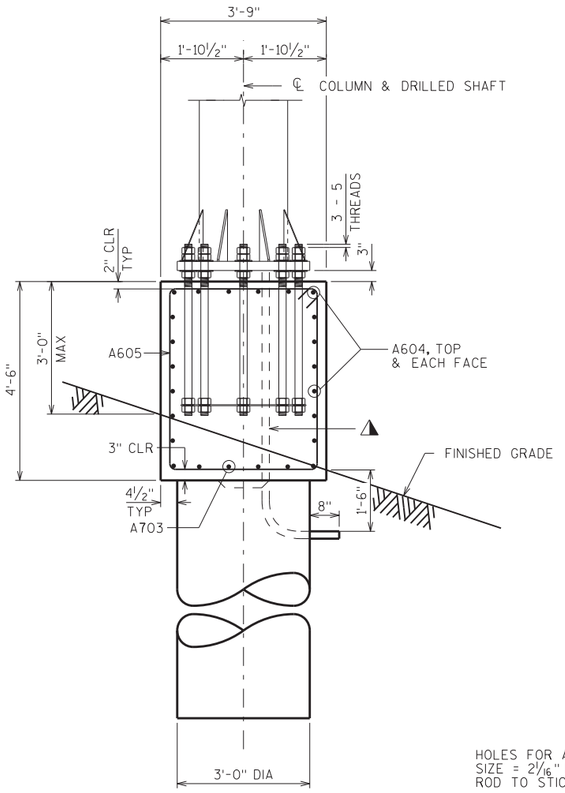
STATE PROJECT NUMBER

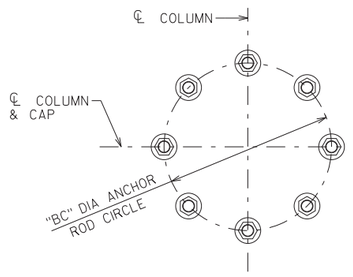
STANDARD



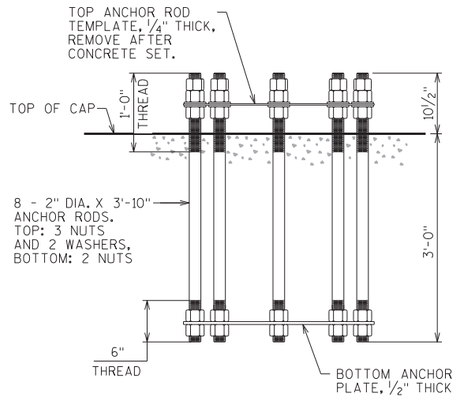
ELEVATION



SECTION A-A



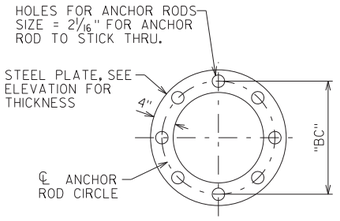
PLAN



ELEVATION

ANCHOR ROD ASSEMBLY DETAILS

SINGLE ASSEMBLY SHOWN
8 ANCHOR RODS REQ'D PER ASSEMBLY

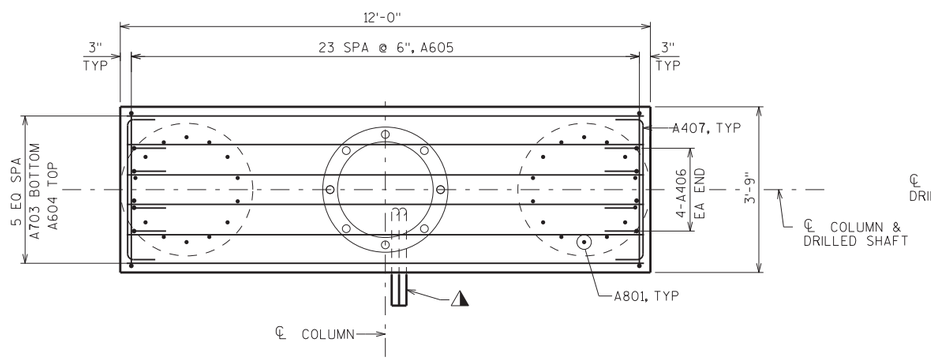


ANCHOR PLATE/TOP TEMPLATE

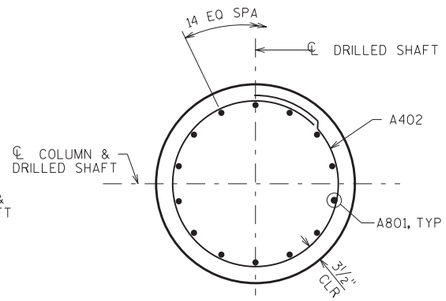
PLAN

ANCHOR PLATE DATA

STD DESIGN TRUSS	DIMENSIONS
	"BC"
I	2'-2"
II	2'-6"



PLAN



SECTION B-B

NOTES

CENTER ANCHOR ROD ASSEMBLY AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED ON PLAN. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

LEGEND

⚠ 2 - 2" DIA NONMETALLIC CONDUITS, INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO THE DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

4-CHORD TRUSS CANT. FOUNDATION DETAILS 1

SHEET VII OF VIII

1008

SCALE = 1.67

8

8

STATE PROJECT NUMBER

STANDARD

NOTE:
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

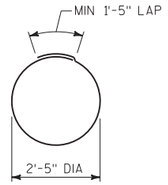
BILL OF BARS - STANDARD DESIGN TYPE I OR II

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		28	18'-2"			DRILLED SHAFT - VERTICAL
A402		34	9'-0"	X		DRILLED SHAFT - HORIZONTAL
A703	X	6	13'-7"	X		CAP - LONGITUDINAL - BOTTOM
A604	X	18	11'-8"			CAP - LONGITUDINAL - TOP & SIDES
A605	X	24	15'-10"	X		CAP - STIRRUP
A406	X	8	4'-7"	X		CAP - VERTICAL - EACH END
A407	X	8	3'-11"	X		CAP - HORIZONTAL - EACH END

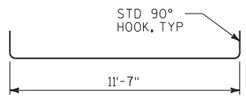
ESTIMATED QUANTITIES - FOUNDATION

STANDARD DESIGN TYPE	CONCRETE MASONRY (CY)	STEEL REINFORCEMENT HS (LBS)	STEEL REINFORCEMENT HS COATED (LBS)	ANCHOR ASSEMBLY 2-INCH (EACH)	FOUNDATION DRILLING 36" DIA. (LF)
I/II	16	1,570	1,100	1	32

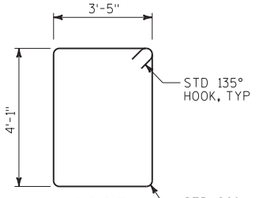
** QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON STANDARD STRUCTURE DIMENSIONS



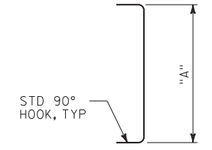
A402



A703



A605



A406, A407

BAR MARK	"A"
A406	3'-11½"
A407	3'-3½"

BAR BENDING DIAGRAMS

NOTE:
BAR DIMENSIONS ARE OUT TO OUT OF BAR. THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: MARCH 2021

DRAWN BY BOS | PLANS CK'D. BOS

4-CHORD TRUSS
CANT. FOUNDATION
DETAILS 2

SHEET VIII OF VIII

1009

SCALE = 0.50

PROJECT ID 3080-01-76
US 12/18 EB OUTSIDE SHOULDER

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF) CUT NOTE 1	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	AREA (SF) FILL NOTE 3	AREA (SF) MARSH EXC	AREA (SF) EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	INCREMENTAL VOL (CY) (UNADJUSTED) MARSH EXC	INCREMENTAL VOL (CY) (UNADJUSTED) EBS	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.25	CUMULATIVE VOL (CY) EXPANDED MARSH BACKFILL 1.50 NOTE 4	CUMULATIVE VOL (CY) EXPANDED EBS BACKFILL 1.30 NOTE 5	CUMULATIVE VOL (CY) REDUCED MARSH IN FILL 0.60 NOTE 6	CUMULATIVE VOL (CY) REDUCED EBS IN FILL 0.80 NOTE 7	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 8
COIC	118+59 AH	11859	0	24.10	0.00	0.02	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	119+00	11900	41	28.35	0.00	1.51	0.00	0.00	40	0	1	0	0	40	1	0	0	0	0	39
	119+50	11950	50	33.40	0.00	1.59	0.00	0.00	57	0	3	0	0	97	5	0	0	0	0	92
	119+68	11968	18	34.72	0.00	2.63	0.00	0.00	22	0	1	0	0	119	7	0	0	0	0	113
	119+92	11992	25	31.21	0.00	2.86	0.00	0.00	30	0	3	0	0	150	10	0	0	0	0	140
	120+00	12000	8	30.67	0.00	6.59	0.00	0.00	9	0	1	0	0	158	12	0	0	0	0	147
	120+17	12017	17	29.43	0.00	5.71	0.00	0.00	19	0	4	0	0	178	17	0	0	0	0	161
	120+50	12050	33	29.43	0.00	5.52	0.00	0.00	35	0	7	0	0	213	25	0	0	0	0	188
	121+00	12100	50	32.76	0.00	18.43	0.00	0.00	58	0	22	0	0	271	53	0	0	0	0	218
	121+50	12150	50	29.99	0.00	11.46	0.00	0.00	58	0	28	0	0	329	87	0	0	0	0	242
	122+00	12200	50	26.51	0.00	9.03	0.00	0.00	52	0	19	0	0	381	111	0	0	0	0	270
	122+50	12250	50	49.70	0.00	0.00	0.00	0.00	71	0	8	0	0	452	121	0	0	0	0	330
	123+00	12300	50	49.58	0.00	4.76	0.00	0.00	92	0	4	0	0	544	127	0	0	0	0	417
	123+50	12350	50	48.14	0.00	9.02	0.00	0.00	90	0	13	0	0	634	143	0	0	0	0	491
	124+00	12400	50	48.44	0.00	13.30	0.00	0.00	89	0	21	0	0	724	169	0	0	0	0	555
	124+50	12450	50	46.22	0.00	16.35	0.00	0.00	88	0	27	0	0	811	203	0	0	0	0	608
	125+00	12500	50	41.37	0.00	14.86	0.00	0.00	81	0	29	0	0	892	239	0	0	0	0	653
	125+50	12550	50	38.01	0.00	20.07	0.00	0.00	74	0	32	0	0	966	280	0	0	0	0	686
	126+00	12600	50	37.93	0.00	14.74	0.00	0.00	70	0	32	0	0	1,036	320	0	0	0	0	716
	126+50	12650	50	49.83	0.00	7.98	0.00	0.00	81	0	21	0	0	1,118	346	0	0	0	0	771
	127+00	12700	50	47.66	0.00	8.12	0.00	0.00	90	0	15	0	0	1,208	365	0	0	0	0	843
	127+50	12750	50	42.07	0.00	9.44	0.00	0.00	83	0	16	0	0	1,291	385	0	0	0	0	906
	128+00	12800	50	42.63	0.00	10.72	0.00	0.00	78	0	19	0	0	1,369	409	0	0	0	0	961
	128+50	12850	50	46.51	0.00	11.22	0.00	0.00	83	0	20	0	0	1,452	434	0	0	0	0	1,018
	129+00	12900	50	47.69	0.00	7.79	0.00	0.00	87	0	18	0	0	1,539	456	0	0	0	0	1,083
	130+00	13000	100	40.84	0.00	15.23	0.00	0.00	164	0	43	0	0	1,703	509	0	0	0	0	1,194
	131+00	13100	100	36.25	0.00	24.90	0.00	0.00	143	0	74	0	0	1,846	602	0	0	0	0	1,244
	131+91 3K	13191	91	40.34	0.00	6.77	0.00	0.00	129	0	53	0	0	1,975	669	0	0	0	0	1,306
	141+05 AH	14105	0	23.05	0.00	0.00	0.00	0.00	0	0	0	0	0	1,975	669	0	0	0	0	1,306
	142+00	14200	95	26.02	0.00	0.00	0.00	0.00	86	0	0	0	0	2,061	669	0	0	0	0	1,392
	143+00	14300	100	26.31	0.00	0.00	0.00	0.00	97	0	0	0	0	2,158	669	0	0	0	0	1,489
	144+00	14400	100	25.81	0.00	0.00	0.00	0.00	97	0	0	0	0	2,255	669	0	0	0	0	1,586
	145+00	14500	100	40.39	0.00	0.00	0.00	0.00	123	0	0	0	0	2,377	669	0	0	0	0	1,708
	145+48	14548	48	55.32	0.00	0.00	0.00	0.00	84	0	0	0	0	2,461	669	0	0	0	0	1,793
	145+72	14572	25	39.06	0.00	0.00	0.00	0.00	43	0	0	0	0	2,504	669	0	0	0	0	1,835
	145+97	14597	25	37.35	0.00	0.00	0.00	0.00	35	0	0	0	0	2,539	669	0	0	0	0	1,870
	146+00	14600	3	37.07	0.00	0.00	0.00	0.00	5	0	0	0	0	2,544	669	0	0	0	0	1,875
	147+00	14700	100	23.87	0.00	0.00	0.00	0.00	113	0	0	0	0	2,657	669	0	0	0	0	1,988
	148+00	14800	100	22.99	0.00	0.00	0.00	0.00	87	0	0	0	0	2,743	669	0	0	0	0	2,075
	149+00	14900	100	22.38	0.00	0.00	0.00	0.00	84	0	0	0	0	2,827	669	0	0	0	0	2,159
	150+00	15000	100	22.40	0.00	0.00	0.00	0.00	83	0	0	0	0	2,910	669	0	0	0	0	2,241
	151+00	15100	100	22.19	0.00	0.00	0.00	0.00	83	0	0	0	0	2,993	669	0	0	0	0	2,324
	152+00	15200	100	22.31	0.00	0.00	0.00	0.00	82	0	0	0	0	3,075	669	0	0	0	0	2,406
	153+00	15300	100	22.34	0.00	0.00	0.00	0.00	83	0	0	0	0	3,158	669	0	0	0	0	2,489
	154+00	15400	100	22.37	0.00	0.00	0.00	0.00	83	0	0	0	0	3,241	669	0	0	0	0	2,572
	155+00	15500	100	21.73	0.00	0.00	0.00	0.00	82	0	0	0	0	3,322	669	0	0	0	0	2,654
	156+00	15600	100	21.81	0.00	0.00	0.00	0.00	81	0	0	0	0	3,403	669	0	0	0	0	2,734
	157+00	15700	100	22.46	0.00	0.00	0.00	0.00	82	0	0	0	0	3,485	669	0	0	0	0	2,816
	158+00	15800	100	22.83	0.00	0.00	0.00	0.00	84	0	0	0	0	3,569	669	0	0	0	0	2,900
	159+00	15900	100	23.62	0.00	0.00	0.00	0.00	86	0	0	0	0	3,655	669	0	0	0	0	2,986
	160+00	16000	100	23.15	0.00	0.00	0.00	0.00	87	0	0	0	0	3,742	669	0	0	0	0	3,073

CONTINUED ON NEXT PAGE

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: |(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)|	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: |(CUT - SALVAGED PAVT - |(FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)|	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: |(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)|	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: |(CUT - SALVAGED PAVT - |(FILL * FILL FACTOR)|	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76

US 12/18 EB OUTSIDE SHOULDER

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT 1.00	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50	EXPANDED EBS BACKFILL 1.30	REDUCED MARSH IN FILL 0.60	REDUCED EBS IN FILL 0.80	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			NOTE 1		NOTE 4	NOTE 5	NOTE 6	NOTE 7	NOTE 8
0010	161+00	16100	100	23.06	0.00	0.00	0.00	0.00	86	0	0	0	0	3,827	669	0	0	0	0	3,158
	162+00	16200	100	23.27	0.00	0.00	0.00	0.00	86	0	0	0	0	3,913	669	0	0	0	0	3,244
	163+00	16300	100	22.48	0.00	0.00	0.00	0.00	85	0	0	0	0	3,998	669	0	0	0	0	3,329
	164+00	16400	100	22.87	0.00	0.00	0.00	0.00	84	0	0	0	0	4,082	669	0	0	0	0	3,413
	165+00	16500	100	22.93	0.00	0.00	0.00	0.00	85	0	0	0	0	4,166	669	0	0	0	0	3,498
	166+00	16600	100	22.83	0.00	0.00	0.00	0.00	85	0	0	0	0	4,251	669	0	0	0	0	3,582
	167+00	16700	100	22.72	0.00	0.00	0.00	0.00	84	0	0	0	0	4,335	669	0	0	0	0	3,667
	168+00	16800	100	22.85	0.00	0.00	0.00	0.00	84	0	0	0	0	4,420	669	0	0	0	0	3,751
	169+00	16900	100	22.59	0.00	0.00	0.00	0.00	84	0	0	0	0	4,504	669	0	0	0	0	3,835
	170+00	17000	100	23.04	0.00	0.00	0.00	0.00	85	0	0	0	0	4,589	669	0	0	0	0	3,920
	171+00	17100	100	22.52	0.00	0.00	0.00	0.00	84	0	0	0	0	4,673	669	0	0	0	0	4,004
	172+00	17200	100	22.64	0.00	0.00	0.00	0.00	84	0	0	0	0	4,757	669	0	0	0	0	4,088
	173+00	17300	100	23.37	0.00	0.00	0.00	0.00	85	0	0	0	0	4,842	669	0	0	0	0	4,173
	174+00	17400	100	22.62	0.00	0.00	0.00	0.00	85	0	0	0	0	4,927	669	0	0	0	0	4,258
	175+00	17500	100	22.55	0.00	0.00	0.00	0.00	84	0	0	0	0	5,011	669	0	0	0	0	4,342
	176+00	17600	100	22.48	0.00	0.00	0.00	0.00	83	0	0	0	0	5,094	669	0	0	0	0	4,425
	177+00	17700	100	23.28	0.00	0.00	0.00	0.00	85	0	0	0	0	5,179	669	0	0	0	0	4,510
	178+00	17800	100	22.27	0.00	0.00	0.00	0.00	84	0	0	0	0	5,263	669	0	0	0	0	4,594
	179+00	17900	100	22.30	0.00	0.00	0.00	0.00	83	0	0	0	0	5,346	669	0	0	0	0	4,677
	180+00	18000	100	23.22	0.00	0.00	0.00	0.00	84	0	0	0	0	5,430	669	0	0	0	0	4,761
	181+00	18100	100	0.00	0.00	0.00	0.00	0.00	43	0	0	0	0	5,473	669	0	0	0	0	4,804
	182+00	18200	100	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	5,473	669	0	0	0	0	4,804
	182+12	18212	12	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	5,473	669	0	0	0	0	4,804
	182+22	18222	10	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	5,473	669	0	0	0	0	4,804
	183+00	18300	78	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	5,473	669	0	0	0	0	4,804
	184+00	18400	100	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	5,473	669	0	0	0	0	4,804
	185+00	18500	100	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	5,473	669	0	0	0	0	4,804
	186+00	18600	100	9.95	0.00	0.00	0.00	0.00	18	0	0	0	0	5,491	669	0	0	0	0	4,822
	187+00	18700	100	11.21	0.00	0.00	0.00	0.00	39	0	0	0	0	5,530	669	0	0	0	0	4,862
	188+00	18800	100	12.97	0.00	0.00	0.00	0.00	45	0	0	0	0	5,575	669	0	0	0	0	4,906
	189+00	18900	100	8.80	0.00	0.29	0.00	0.00	40	0	1	0	0	5,616	669	0	0	0	0	4,946
	190+00	19000	100	17.08	0.00	0.52	0.00	0.00	48	0	2	0	0	5,663	671	0	0	0	0	4,992
	191+00	19100	100	32.21	0.00	0.00	0.00	0.00	91	0	1	0	0	5,755	673	0	0	0	0	5,082
	192+00	19200	100	35.99	0.00	0.01	0.00	0.00	126	0	0	0	0	5,881	673	0	0	0	0	5,208
	193+00	19300	100	54.89	0.00	0.00	0.00	0.00	168	0	0	0	0	6,049	673	0	0	0	0	5,377
	194+00	19400	100	37.52	0.00	0.21	0.00	0.00	171	0	0	0	0	6,220	673	0	0	0	0	5,547
	194+44	19444	44	30.16	0.00	4.61	0.00	0.00	56	0	4	0	0	6,276	678	0	0	0	0	5,598
	194+69	19469	25	30.18	0.00	1.65	0.00	0.00	28	0	3	0	0	6,304	682	0	0	0	0	5,622
	194+94	19494	25	29.06	0.00	1.06	0.00	0.00	27	0	1	0	0	6,332	683	0	0	0	0	5,648
	195+00	19500	6	29.51	0.00	0.81	0.00	0.00	6	0	0	0	0	6,338	683	0	0	0	0	5,654
	196+00	19600	100	35.53	0.00	0.00	0.00	0.00	120	0	2	0	0	6,458	685	0	0	0	0	5,773
	196+15	19615	15	28.75	0.00	0.29	0.00	0.00	18	0	0	0	0	6,476	685	0	0	0	0	5,791
	196+27	19627	12	28.87	0.00	0.20	0.00	0.00	13	0	0	0	0	6,489	686	0	0	0	0	5,804
	197+00	19700	73	28.65	0.00	0.00	0.00	0.00	77	0	0	0	0	6,566	686	0	0	0	0	5,881
	198+00	19800	100	29.58	0.00	0.00	0.00	0.00	108	0	0	0	0	6,674	686	0	0	0	0	5,988
	198+16	19816	16	31.45	0.00	1.78	0.00	0.00	18	0	1	0	0	6,693	687	0	0	0	0	6,006
	198+28	19828	12	31.18	0.00	1.68	0.00	0.00	14	0	1	0	0	6,707	688	0	0	0	0	6,019
	199+00	19900	72	38.05	0.00	1.89	0.00	0.00	92	0	5	0	0	6,799	693	0	0	0	0	6,105
	200+00	20000	100	38.24	0.00	0.00	0.00	0.00	141	0	4	0	0	6,940	698	0	0	0	0	6,242

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NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ([FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76

US 12/18 EB OUTSIDE SHOULDER

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED MARSH IN FILL 0.60 NOTE 6	REDUCED EBS IN FILL 0.80 NOTE 7	MASS ORDINATE NOTE 8
	201+00	20100	100	5.19	0.00	1.64	0.00	0.00	80	0	3	0	0	7,020	702	0	0	0	0	6,319
	202+00	20200	100	3.29	0.00	3.07	0.00	0.00	16	0	9	0	0	7,036	713	0	0	0	0	6,323
	203+00	20300	100	2.78	0.00	6.32	0.00	0.00	11	0	17	0	0	7,047	734	0	0	0	0	6,313
	204+00	20400	100	52.15	0.00	2.78	0.00	0.00	102	0	17	0	0	7,149	755	0	0	0	0	6,394
	205+00	20500	100	41.33	0.00	1.31	0.00	0.00	173	0	8	0	0	7,322	765	0	0	0	0	6,557
	206+00	20600	100	30.89	0.00	3.00	0.00	0.00	134	0	8	0	0	7,456	775	0	0	0	0	6,681
	207+00	20700	100	7.63	0.00	0.49	0.00	0.00	71	0	6	0	0	7,527	783	0	0	0	0	6,744
	208+00	20800	100	1.72	0.00	3.33	0.00	0.00	17	0	7	0	0	7,544	792	0	0	0	0	6,753
	209+00	20900	100	2.26	0.00	0.00	0.00	0.00	7	0	6	0	0	7,552	799	0	0	0	0	6,752
	209+35	20935	35	2.26	0.00	0.00	0.00	0.00	3	0	0	0	0	7,555	799	0	0	0	0	6,755
					SUBTOTALS CATEGORY 0010				7555	0	640	0	0							

PROJECT ID 3080-01-76

US 12/18 EB LANES, MEDIAN AND OUTSIDE SHOULDERS

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED MARSH IN FILL 0.60 NOTE 6	REDUCED EBS IN FILL 0.80 NOTE 7	MASS ORDINATE NOTE 8
	211+12 AH	21112	0	295.98	0.00	1.45	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	212+00	21200	88	218.52	0.00	6.30	0.00	0.00	712	0	21	0	0	712	26	0	0	0	0	687
	213+00	21300	100	115.82	0.00	8.32	0.00	0.00	619	0	27	0	0	1,331	60	0	0	0	0	1,272
	214+00	21400	100	69.33	0.00	9.95	0.00	0.00	343	0	34	0	0	1,674	102	0	0	0	0	1,572
	215+00	21500	100	52.95	0.00	10.48	0.00	0.00	226	0	38	0	0	1,901	149	0	0	0	0	1,752
	215+48	21548	48	135.46	0.00	37.87	0.00	0.00	167	0	43	0	0	2,068	203	0	0	0	0	1,865
	216+00	21600	52	136.38	0.00	36.43	0.00	0.00	262	0	72	0	0	2,330	292	0	0	0	0	2,038
	217+00	21700	100	142.75	0.00	48.37	0.00	0.00	517	0	157	0	0	2,847	489	0	0	0	0	2,358
	218+00	21800	100	134.03	0.00	66.34	0.00	0.00	513	0	212	0	0	3,359	754	0	0	0	0	2,605
	219+00	21900	100	130.28	0.00	52.75	0.00	0.00	489	0	221	0	0	3,849	1,030	0	0	0	0	2,819
	220+00	22000	100	125.13	0.00	18.66	0.00	0.00	473	0	132	0	0	4,322	1,195	0	0	0	0	3,127
	221+00	22100	100	111.27	0.00	1.27	0.00	0.00	438	0	37	0	0	4,760	1,241	0	0	0	0	3,518
	222+00	22200	100	116.87	0.00	0.48	0.00	0.00	422	0	3	0	0	5,182	1,245	0	0	0	0	3,937
	223+00	22300	200	122.22	0.00	0.27	0.00	0.00	865	0	5	0	0	6,047	1,251	0	0	0	0	4,796
	224+00 BK	22400	100	121.10	0.00	0.43	0.00	0.00	451	0	1	0	0	6,498	1,253	0	0	0	0	5,245
					SUBTOTALS CATEGORY 0010				6498	0	1002	0	0							

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
US 12/18 WB OUTSIDE SHOULDER

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT 1.00	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50	EXPANDED EBS BACKFILL 1.30	REDUCED MARSH IN FILL 0.60	REDUCED EBS IN FILL 0.80	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			NOTE 1		NOTE 4	NOTE 5	NOTE 6	NOTE 7	NOTE 8
0010	129+95 A~	12995	0	3.98	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	130+00	13000	5	3.97	0.00	0.00	0.00	0.00	1	0	0	0	0	1	0	0	0	0	0	1
	131+00	13100	100	2.45	0.00	0.03	0.00	0.00	12	0	0	0	0	13	0	0	0	0	0	13
	132+00	13200	100	2.69	0.00	0.02	0.00	0.00	10	0	0	0	0	22	0	0	0	0	0	22
	133+00	13300	100	2.49	0.00	0.00	0.00	0.00	10	0	0	0	0	32	0	0	0	0	0	32
	134+00	13400	100	3.97	0.00	0.00	0.00	0.00	12	0	0	0	0	44	0	0	0	0	0	44
	135+00	13500	100	3.91	0.00	0.00	0.00	0.00	15	0	0	0	0	58	0	0	0	0	0	58
	136+00	13600	100	2.09	0.00	0.01	0.00	0.00	11	0	0	0	0	69	0	0	0	0	0	69
	137+00	13700	100	2.97	0.00	0.00	0.00	0.00	9	0	0	0	0	79	0	0	0	0	0	79
	138+00	13800	100	4.10	0.00	0.00	0.00	0.00	13	0	0	0	0	92	0	0	0	0	0	92
	139+00	13900	100	1.91	0.00	0.02	0.00	0.00	11	0	0	0	0	103	0	0	0	0	0	103
	140+00	14000	100	9.48	0.00	5.85	0.00	0.00	21	0	11	0	0	124	14	0	0	0	0	110
	140+37	14037	37	18.50	0.00	15.84	0.00	0.00	19	0	15	0	0	143	32	0	0	0	0	111
	141+00	14100	63	23.98	0.00	0.00	0.00	0.00	50	0	19	0	0	193	56	0	0	0	0	137
	142+00	14200	100	20.17	0.00	0.01	0.00	0.00	82	0	0	0	0	275	56	0	0	0	0	219
	143+00	14300	100	23.49	0.00	0.00	0.00	0.00	81	0	0	0	0	356	56	0	0	0	0	300
	144+00	14400	100	59.40	0.00	0.00	0.00	0.00	154	0	0	0	0	509	56	0	0	0	0	453
	145+00	14500	100	71.19	0.00	0.00	0.00	0.00	242	0	0	0	0	751	56	0	0	0	0	695
	146+00	14600	100	57.34	0.00	0.00	0.00	0.00	238	0	0	0	0	989	56	0	0	0	0	933
	147+00	14700	100	37.49	0.00	1.62	0.00	0.00	176	0	3	0	0	1,165	59	0	0	0	0	1,105
	148+00	14800	100	38.76	0.00	0.00	0.00	0.00	141	0	3	0	0	1,306	63	0	0	0	0	1,243
	149+00	14900	100	30.27	0.00	0.00	0.00	0.00	128	0	0	0	0	1,434	63	0	0	0	0	1,370
	150+00	15000	100	19.32	0.00	0.00	0.00	0.00	92	0	0	0	0	1,525	63	0	0	0	0	1,462
	151+00	15100	100	12.27	0.00	0.00	0.00	0.00	59	0	0	0	0	1,584	63	0	0	0	0	1,521
	152+00	15200	100	5.56	0.00	3.17	0.00	0.00	33	0	6	0	0	1,617	70	0	0	0	0	1,546
	153+00	15300	100	5.98	0.00	23.83	0.00	0.00	21	0	50	0	0	1,638	133	0	0	0	0	1,505
	154+00	15400	100	8.78	0.00	10.63	0.00	0.00	27	0	64	0	0	1,666	213	0	0	0	0	1,453
	155+00	15500	100	14.57	0.00	19.39	0.00	0.00	43	0	56	0	0	1,709	282	0	0	0	0	1,427
	156+00	15600	100	35.51	0.00	2.34	0.00	0.00	93	0	40	0	0	1,802	333	0	0	0	0	1,469
	157+00	15700	100	14.82	0.00	10.41	0.00	0.00	93	0	24	0	0	1,895	362	0	0	0	0	1,533
	158+00	15800	100	8.74	0.00	29.40	0.00	0.00	44	0	74	0	0	1,938	454	0	0	0	0	1,484
	159+00	15900	100	10.90	0.00	10.59	0.00	0.00	36	0	74	0	0	1,975	547	0	0	0	0	1,428
	160+00	16000	100	6.52	0.00	4.69	0.00	0.00	32	0	28	0	0	2,007	582	0	0	0	0	1,425
	161+00	16100	100	20.01	0.00	2.54	0.00	0.00	49	0	13	0	0	2,056	599	0	0	0	0	1,457
	162+00	16200	100	43.69	0.00	0.57	0.00	0.00	118	0	6	0	0	2,174	606	0	0	0	0	1,568
	163+00	16300	100	140.56	0.00	0.00	0.00	0.00	341	0	1	0	0	2,515	607	0	0	0	0	1,908
	164+00	16400	100	66.51	0.00	0.00	0.00	0.00	383	0	0	0	0	2,899	607	0	0	0	0	2,291
	165+00	16500	100	41.48	0.00	0.00	0.00	0.00	200	0	0	0	0	3,099	607	0	0	0	0	2,491
	166+00	16600	100	32.53	0.00	0.00	0.00	0.00	137	0	0	0	0	3,236	607	0	0	0	0	2,628
	167+00	16700	100	28.39	0.00	0.00	0.00	0.00	113	0	0	0	0	3,349	607	0	0	0	0	2,741
	168+00	16800	100	22.87	0.00	0.00	0.00	0.00	95	0	0	0	0	3,444	607	0	0	0	0	2,836
	169+00	16900	100	10.85	0.00	0.00	0.00	0.00	62	0	0	0	0	3,506	607	0	0	0	0	2,899
	170+00	17000	100	6.24	0.00	0.31	0.00	0.00	32	0	1	0	0	3,538	608	0	0	0	0	2,930
	171+00	17100	100	6.71	0.00	0.18	0.00	0.00	24	0	1	0	0	3,562	609	0	0	0	0	2,952
	172+00	17200	100	5.89	0.00	0.22	0.00	0.00	23	0	1	0	0	3,585	610	0	0	0	0	2,975
	173+00	17300	100	24.86	0.00	0.97	0.00	0.00	57	0	2	0	0	3,642	613	0	0	0	0	3,029
	174+00	17400	100	27.07	0.00	1.59	0.00	0.00	96	0	5	0	0	3,738	619	0	0	0	0	3,119

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NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1 1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1 1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1 1 SLOPES

PROJECT ID 3080-01-76
US 12/18 WB OUTSIDE SHOULDER

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED MARSH IN FILL 0.60 NOTE 6	REDUCED EBS IN FILL 0.80 NOTE 7	MASS ORDINATE NOTE 8
0010	175+00	17500	100	32.22	0.00	3.03	0.00	0.00	110	0	9	0	0	3,848	630	0	0	0	0	3,218
	176+00	17600	100	39.95	0.00	10.31	0.00	0.00	134	0	25	0	0	3,982	660	0	0	0	0	3,321
	177+00	17700	100	42.64	0.00	0.02	0.00	0.00	153	0	19	0	0	4,135	684	0	0	0	0	3,450
	178+00	17800	100	45.58	0.00	0.01	0.00	0.00	163	0	0	0	0	4,298	684	0	0	0	0	3,613
	179+00	17900	100	41.82	0.00	0.04	0.00	0.00	162	0	0	0	0	4,460	684	0	0	0	0	3,775
	180+00	18000	100	46.19	0.00	0.02	0.00	0.00	163	0	0	0	0	4,623	685	0	0	0	0	3,938
	181+00	18100	100	43.10	0.00	0.35	0.00	0.00	165	0	1	0	0	4,788	685	0	0	0	0	4,103
	182+00	18200	100	41.77	0.00	2.33	0.00	0.00	157	0	5	0	0	4,945	692	0	0	0	0	4,254
	182+12	18212	12	42.85	0.00	2.08	0.00	0.00	19	0	1	0	0	4,964	693	0	0	0	0	4,271
	182+22	18222	10	44.52	0.00	1.87	0.00	0.00	16	0	1	0	0	4,980	694	0	0	0	0	4,286
	182+85 BK	18285	63	46.34	0.00	1.26	0.00	0.00	106	0	4	0	0	5,086	698	0	0	0	0	4,388
	183+00 AH	18300	0	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	5,086	698	0	0	0	0	4,388
	184+00	18400	100	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	5,086	698	0	0	0	0	4,388
	185+03	18503	103	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	5,086	698	0	0	0	0	4,388
	186+00	18600	97	9.95	0.00	0.00	0.00	0.00	18	0	0	0	0	5,104	698	0	0	0	0	4,406
	187+00	18700	100	23.96	0.00	0.00	0.00	0.00	63	0	0	0	0	5,167	698	0	0	0	0	4,468
	188+00	18800	100	43.32	0.00	0.00	0.00	0.00	125	0	0	0	0	5,291	698	0	0	0	0	4,593
	189+00	18900	100	72.71	0.00	0.00	0.00	0.00	215	0	0	0	0	5,506	698	0	0	0	0	4,808
	190+00	19000	100	89.06	0.00	1.29	0.00	0.00	300	0	2	0	0	5,806	701	0	0	0	0	5,105
	191+00	19100	100	88.77	0.00	0.99	0.00	0.00	329	0	4	0	0	6,135	707	0	0	0	0	5,429
	192+00	19200	100	98.10	0.00	0.00	0.00	0.00	346	0	2	0	0	6,481	709	0	0	0	0	5,772
	193+00	19300	100	119.85	0.00	0.00	0.00	0.00	404	0	0	0	0	6,885	709	0	0	0	0	6,176
	194+00	19400	100	166.69	0.00	1.35	0.00	0.00	531	0	3	0	0	7,416	712	0	0	0	0	6,703
	195+00	19500	100	163.02	0.00	1.11	0.00	0.00	611	0	5	0	0	8,026	718	0	0	0	0	7,308
	196+00	19600	100	28.32	0.00	5.00	0.00	0.00	354	0	11	0	0	8,380	732	0	0	0	0	7,649
	196+15	19615	15	29.10	0.00	5.40	0.00	0.00	16	0	3	0	0	8,397	736	0	0	0	0	7,661
	196+27	19627	12	29.59	0.00	5.87	0.00	0.00	13	0	3	0	0	8,410	739	0	0	0	0	7,671
	197+00	19700	73	27.30	0.00	0.00	0.00	0.00	77	0	8	0	0	8,486	749	0	0	0	0	7,738
	198+00	19800	100	26.25	0.00	0.00	0.00	0.00	99	0	0	0	0	8,586	749	0	0	0	0	7,837
	198+16	19816	16	26.19	0.00	8.64	0.00	0.00	16	0	3	0	0	8,601	752	0	0	0	0	7,849
	198+28	19828	12	26.16	0.00	11.20	0.00	0.00	12	0	4	0	0	8,613	757	0	0	0	0	7,856
	199+00	19900	72	28.62	0.00	8.47	0.00	0.00	73	0	26	0	0	8,686	790	0	0	0	0	7,896
	199+53	19953	53	108.01	0.00	0.00	0.00	0.00	134	0	8	0	0	8,820	800	0	0	0	0	8,019
	199+78	19978	25	86.36	0.00	0.00	0.00	0.00	90	0	0	0	0	8,910	800	0	0	0	0	8,109
	200+00	20000	22	36.97	0.00	15.76	0.00	0.00	50	0	6	0	0	8,960	808	0	0	0	0	8,152
	200+03	20003	3	36.60	0.00	17.73	0.00	0.00	4	0	2	0	0	8,964	811	0	0	0	0	8,153
	201+00	20100	97	24.83	0.00	14.70	0.00	0.00	110	0	58	0	0	9,074	884	0	0	0	0	8,191
	202+00	20200	100	3.81	0.00	14.74	0.00	0.00	53	0	55	0	0	9,128	952	0	0	0	0	8,176
	203+00	20300	100	3.21	0.00	16.41	0.00	0.00	13	0	58	0	0	9,141	1,024	0	0	0	0	8,117
	204+00	20400	100	6.38	0.00	11.68	0.00	0.00	18	0	52	0	0	9,158	1,089	0	0	0	0	8,069
	205+00	20500	100	4.03	0.00	9.40	0.00	0.00	19	0	39	0	0	9,178	1,138	0	0	0	0	8,040
	206+00	20600	100	5.26	0.00	0.00	0.00	0.00	17	0	17	0	0	9,195	1,159	0	0	0	0	8,035
	207+00	20700	100	5.30	0.00	0.00	0.00	0.00	20	0	0	0	0	9,214	1,159	0	0	0	0	8,055
	208+00	20800	100	3.12	0.00	0.00	0.00	0.00	16	0	0	0	0	9,230	1,159	0	0	0	0	8,070
	209+00	20900	100	0.00	0.00	0.00	0.00	0.00	6	0	0	0	0	9,236	1,159	0	0	0	0	8,076
						SUBTOTALS CATEGORY 0010			9236	0	928	0	0							

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: ((CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR))	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: ((CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR))	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: ((CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR))	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: ((CUT - SALVAGED PAVT - (FILL * FILL FACTOR))	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
US 12/18 EB MEDIAN SHOULDER

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	FBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	FBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50 NOTE 4	EXPANDED FBS BACKFILL 1.30 NOTE 5	REDUCED MARSH IN FILL 0.60 NOTE 6	REDUCED FBS IN FILL 0.80 NOTE 7	MASS ORDINATE NOTE 8
0010	130-00 AH	13000	0	2.26	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	131-00	13100	100	38.15	0.00	0.90	0.00	0.00	75	0	2	0	0	75	2	0	0	0	0	73
	132-00	13200	100	32.26	0.00	3.04	0.00	0.00	130	0	7	0	0	205	11	0	0	0	0	194
	133-00	13300	100	30.15	0.00	1.56	0.00	0.00	116	0	9	0	0	321	22	0	0	0	0	299
	134-00	13400	100	28.51	0.00	0.24	0.00	0.00	109	0	3	0	0	429	26	0	0	0	0	403
	135-00	13500	100	19.71	0.00	1.65	0.00	0.00	89	0	4	0	0	519	30	0	0	0	0	488
	136-00	13600	100	17.03	0.00	7.29	0.00	0.00	68	0	17	0	0	587	51	0	0	0	0	536
	137-00	13700	100	19.95	0.00	6.25	0.00	0.00	68	0	25	0	0	655	82	0	0	0	0	573
	138-00	13800	100	17.46	0.00	11.24	0.00	0.00	69	0	32	0	0	725	123	0	0	0	0	602
	139-00	13900	100	18.27	0.00	3.31	0.00	0.00	66	0	27	0	0	791	157	0	0	0	0	634
	140-00	14000	100	22.17	0.00	3.02	0.00	0.00	75	0	12	0	0	866	171	0	0	0	0	694
	140-37	14037	37	221.41	0.00	4.02	0.00	0.00	167	0	5	0	0	1,033	177	0	0	0	0	855
	141-00	14100	63	221.43	0.00	0.65	0.00	0.00	516	0	5	0	0	1,549	184	0	0	0	0	1,365
	142-00	14200	100	201.81	0.00	0.00	0.00	0.00	784	0	1	0	0	2,333	186	0	0	0	0	2,147
	143-00	14300	100	42.02	0.00	0.00	0.00	0.00	452	0	0	0	0	2,784	186	0	0	0	0	2,599
	144-00	14400	100	46.91	0.00	0.00	0.00	0.00	165	0	0	0	0	2,949	186	0	0	0	0	2,763
	145-00	14500	100	57.61	0.00	0.00	0.00	0.00	194	0	0	0	0	3,142	186	0	0	0	0	2,957
	145-48	14548	48	57.20	0.00	0.00	0.00	0.00	101	0	0	0	0	3,243	186	0	0	0	0	3,058
	145-72	14572	25	56.71	0.00	0.00	0.00	0.00	52	0	0	0	0	3,295	186	0	0	0	0	3,110
	145-97	14597	25	52.57	0.00	0.00	0.00	0.00	50	0	0	0	0	3,345	186	0	0	0	0	3,159
	146-00	14600	3	49.92	0.00	0.00	0.00	0.00	6	0	0	0	0	3,351	186	0	0	0	0	3,166
	147-00	14700	100	11.70	0.00	4.43	0.00	0.00	114	0	8	0	0	3,466	196	0	0	0	0	3,270
	148-00	14800	100	18.88	0.00	0.30	0.00	0.00	57	0	9	0	0	3,522	207	0	0	0	0	3,315
	149-00	14900	100	13.85	0.00	0.55	0.00	0.00	61	0	2	0	0	3,583	209	0	0	0	0	3,374
	150-00	15000	100	9.83	0.00	1.11	0.00	0.00	44	0	3	0	0	3,627	213	0	0	0	0	3,414
	151-00	15100	100	8.32	0.00	0.26	0.00	0.00	34	0	3	0	0	3,660	216	0	0	0	0	3,444
	152-00	15200	100	11.73	0.00	0.05	0.00	0.00	37	0	1	0	0	3,697	217	0	0	0	0	3,481
	153-00	15300	100	7.52	0.00	0.64	0.00	0.00	36	0	1	0	0	3,733	218	0	0	0	0	3,515
	154-00	15400	100	5.20	0.00	0.74	0.00	0.00	24	0	3	0	0	3,757	221	0	0	0	0	3,535
	155-00	15500	100	1.25	0.00	14.36	0.00	0.00	12	0	28	0	0	3,769	256	0	0	0	0	3,512
	156-00	15600	100	4.20	0.00	0.71	0.00	0.00	10	0	28	0	0	3,779	291	0	0	0	0	3,487
	157-00	15700	100	3.32	0.00	1.46	0.00	0.00	14	0	4	0	0	3,793	296	0	0	0	0	3,496
	158-00	15800	100	3.13	0.00	2.72	0.00	0.00	12	0	8	0	0	3,804	306	0	0	0	0	3,499
	159-00	15900	100	3.04	0.00	1.75	0.00	0.00	11	0	8	0	0	3,816	316	0	0	0	0	3,500
	160-00	16000	100	14.71	0.00	0.23	0.00	0.00	33	0	4	0	0	3,849	321	0	0	0	0	3,528
	161-00	16100	100	20.12	0.00	0.36	0.00	0.00	65	0	1	0	0	3,913	322	0	0	0	0	3,591
	162-00	16200	100	25.62	0.00	0.54	0.00	0.00	85	0	2	0	0	3,998	324	0	0	0	0	3,674
	163-00	16300	100	61.45	0.00	0.00	0.00	0.00	161	0	1	0	0	4,159	325	0	0	0	0	3,834
	164-00	16400	100	21.07	0.00	0.26	0.00	0.00	153	0	0	0	0	4,312	326	0	0	0	0	3,986
	165-00	16500	100	1.58	0.00	2.94	0.00	0.00	42	0	6	0	0	4,354	333	0	0	0	0	4,021
	166-00	16600	100	3.31	0.00	1.53	0.00	0.00	9	0	8	0	0	4,363	344	0	0	0	0	4,019
	167-00	16700	100	2.49	0.00	1.11	0.00	0.00	11	0	5	0	0	4,374	350	0	0	0	0	4,024
	168-00	16800	100	3.23	0.00	1.01	0.00	0.00	11	0	4	0	0	4,384	355	0	0	0	0	4,030
	169-00	16900	100	1.45	0.00	3.99	0.00	0.00	9	0	9	0	0	4,393	366	0	0	0	0	4,027
	170-00	17000	100	1.30	0.00	5.28	0.00	0.00	5	0	17	0	0	4,398	388	0	0	0	0	4,010
	171-00	17100	100	1.36	0.00	8.22	0.00	0.00	5	0	25	0	0	4,403	419	0	0	0	0	3,984
	172-00	17200	100	1.16	0.00	10.49	0.00	0.00	5	0	35	0	0	4,408	462	0	0	0	0	3,945
	173-00	17300	100	1.03	0.00	11.38	0.00	0.00	4	0	41	0	0	4,412	513	0	0	0	0	3,899
	174-00	17400	100	0.97	0.00	11.92	0.00	0.00	4	0	43	0	0	4,415	567	0	0	0	0	3,848
	175-00	17500	100	1.07	0.00	14.65	0.00	0.00	4	0	49	0	0	4,419	628	0	0	0	0	3,791

CONTINUED ON NEXT PAGE

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76

US 12/18 EB MEDIAN SHOULDER

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED MARSH IN FILL 0.60 NOTE 6	REDUCED EBS IN FILL 0.80 NOTE 7	MASS ORDINATE NOTE 8
0010	176+00	17600	100	1.20	0.00	12.25	0.00	0.00	4	0	50	0	0	4,423	691	0	0	0	0	3,733
	177+00	17700	100	0.88	0.00	12.36	0.00	0.00	4	0	46	0	0	4,427	748	0	0	0	0	3,680
	178+00	17800	100	4.04	0.00	3.13	0.00	0.00	9	0	29	0	0	4,436	784	0	0	0	0	3,653
	179+00	17900	100	13.64	0.00	0.07	0.00	0.00	33	0	6	0	0	4,469	791	0	0	0	0	3,678
	180+00	18000	100	16.91	0.00	0.03	0.00	0.00	57	0	0	0	0	4,526	791	0	0	0	0	3,735
	181+00	18100	100	27.72	0.00	0.24	0.00	0.00	83	0	1	0	0	4,608	792	0	0	0	0	3,817
	182+00	18200	100	38.52	0.00	0.00	0.00	0.00	123	0	0	0	0	4,731	792	0	0	0	0	3,939
	182+12	18212	12	45.76	0.00	0.00	0.00	0.00	19	0	0	0	0	4,750	792	0	0	0	0	3,957
	182+22	18222	10	51.88	0.00	0.00	0.00	0.00	18	0	0	0	0	4,768	792	0	0	0	0	3,975
	183+00	18300	78	61.60	0.00	0.00	0.00	0.00	164	0	0	0	0	4,932	792	0	0	0	0	4,139
	184+00	18400	100	57.14	0.00	0.00	0.00	0.00	220	0	0	0	0	5,152	792	0	0	0	0	4,359
	185+00	18500	100	53.48	0.00	0.00	0.00	0.00	205	0	0	0	0	5,357	792	0	0	0	0	4,564
	186+00	18600	100	53.76	0.00	0.00	0.00	0.00	199	0	0	0	0	5,555	792	0	0	0	0	4,763
	187+00	18700	100	53.66	0.00	0.00	0.00	0.00	199	0	0	0	0	5,754	792	0	0	0	0	4,962
	188+00	18800	100	52.47	0.00	0.00	0.00	0.00	197	0	0	0	0	5,951	792	0	0	0	0	5,158
	189+00	18900	100	55.28	0.00	0.00	0.00	0.00	200	0	0	0	0	6,150	792	0	0	0	0	5,358
	190+00	19000	100	57.15	0.00	0.00	0.00	0.00	208	0	0	0	0	6,358	792	0	0	0	0	5,566
	191+00	19100	100	59.67	0.00	0.00	0.00	0.00	216	0	0	0	0	6,575	792	0	0	0	0	5,782
	192+00	19200	100	45.42	0.00	0.00	0.00	0.00	195	0	0	0	0	6,769	792	0	0	0	0	5,977
	193+00	19300	100	29.75	0.00	0.00	0.00	0.00	139	0	0	0	0	6,908	792	0	0	0	0	6,116
	194+00	19400	100	7.01	0.00	0.08	0.00	0.00	68	0	0	0	0	6,977	793	0	0	0	0	6,184
	194+44	19444	44	2.12	0.00	8.24	0.00	0.00	8	0	7	0	0	6,984	801	0	0	0	0	6,183
	194+69	19469	25	1.67	0.00	10.32	0.00	0.00	7	0	9	0	0	6,986	817	0	0	0	0	6,174
	194+94	19494	25	1.19	0.00	10.87	0.00	0.00	1	0	10	0	0	6,987	824	0	0	0	0	6,163
	195+00	19500	6	1.25	0.00	11.55	0.00	0.00	0	0	2	0	0	6,987	827	0	0	0	0	6,160
	196+00	19600	100	1.27	0.00	10.30	0.00	0.00	5	0	40	0	0	6,992	878	0	0	0	0	6,114
	196+15	19615	15	1.15	0.00	11.00	0.00	0.00	1	0	6	0	0	6,993	885	0	0	0	0	6,108
	196+27	19627	12	1.01	0.00	11.76	0.00	0.00	0	0	5	0	0	6,993	892	0	0	0	0	6,102
	197+00	19700	73	1.00	0.00	16.03	0.00	0.00	3	0	37	0	0	6,996	938	0	0	0	0	6,058
	198+00	19800	100	1.17	0.00	17.91	0.00	0.00	4	0	63	0	0	7,000	1,017	0	0	0	0	5,983
	198+16	19816	16	0.95	0.00	19.65	0.00	0.00	1	0	11	0	0	7,001	1,031	0	0	0	0	5,970
	198+28	19828	12	1.01	0.00	21.04	0.00	0.00	0	0	9	0	0	7,001	1,042	0	0	0	0	5,959
	199+00	19900	72	20.52	0.00	0.00	0.00	0.00	29	0	28	0	0	7,029	1,077	0	0	0	0	5,952
	200+00	20000	100	44.42	0.00	0.00	0.00	0.00	120	0	0	0	0	7,150	1,077	0	0	0	0	6,072
	201+00	20100	100	5.26	0.00	0.65	0.00	0.00	92	0	1	0	0	7,242	1,079	0	0	0	0	6,163
	202+00	20200	100	4.74	0.00	0.74	0.00	0.00	19	0	3	0	0	7,260	1,082	0	0	0	0	6,178
	203+00	20300	100	4.11	0.00	0.85	0.00	0.00	16	0	3	0	0	7,277	1,086	0	0	0	0	6,191
	204+00	20400	100	6.50	0.00	0.19	0.00	0.00	20	0	2	0	0	7,296	1,088	0	0	0	0	6,208
	205+00	20500	100	10.58	0.00	0.19	0.00	0.00	32	0	1	0	0	7,328	1,089	0	0	0	0	6,239
	206+00	20600	100	1.13	0.00	2.86	0.00	0.00	22	0	6	0	0	7,350	1,096	0	0	0	0	6,254
	207+00	20700	100	1.22	0.00	3.86	0.00	0.00	4	0	12	0	0	7,354	1,112	0	0	0	0	6,242
	208+00	20800	100	1.03	0.00	4.19	0.00	0.00	4	0	15	0	0	7,358	1,130	0	0	0	0	6,228
	209+00	20900	100	7.38	0.00	0.94	0.00	0.00	16	0	10	0	0	7,374	1,142	0	0	0	0	6,232
	210+00	21000	100	5.87	0.00	0.01	0.00	0.00	25	0	2	0	0	7,398	1,144	0	0	0	0	6,254
	211+00	21100	100	1.36	0.00	0.00	0.00	0.00	13	0	0	0	0	7,412	1,144	0	0	0	0	6,267
	212+00	21200	100	4.90	0.00	0.21	0.00	0.00	12	0	0	0	0	7,423	1,145	0	0	0	0	6,278

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NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: ((CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR))	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR))	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: ((CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL * FILL FACTOR))	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - ((FILL * FILL FACTOR))	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76

US 12/18 EB MEDIAN SHOULDER

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT 1.00	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50	EXPANDED EBS BACKFILL 1.30	REDUCED MARSH IN FILL 0.60	REDUCED EBS IN FILL 0.80	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			NOTE 1		NOTE 4	NOTE 5	NOTE 6	NOTE 7	NOTE 8
0010	213+00	21300	100	4.00	0.00	4.61	0.00	0.00	16	0	9	0	0	7,440	1,156	0	0	0	0	6,284
	214+00	21400	100	1.33	0.00	1.65	0.00	0.00	10	0	12	0	0	7,450	1,170	0	0	0	0	6,279
	215+00	21500	100	2.37	0.00	1.06	0.00	0.00	7	0	5	0	0	7,456	1,177	0	0	0	0	6,280
	215+48	21548	48	2.06	0.00	0.81	0.00	0.00	4	0	2	0	0	7,460	1,179	0	0	0	0	6,282
						SUBTOTALS CATEGORY 0010			7460	0	943	0	0							

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
US 12/18 WB MEDIAN SHOULDER

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	FBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	FBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED FBS BACKFILL	REDUCED MARSH IN FILL	REDUCED FBS IN FILL	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			1.00 NOTE 1	1.25	1.50 NOTE 4	1.30 NOTE 5	0.60 NOTE 6	0.80 NOTE 7	NOTE 8
0010	129-95 AH	12995	0	4.38	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	130-00	13000	5	4.99	0.00	0.00	0.00	0.00	1	0	0	0	0	1	0	0	0	0	0	1
	131-00	13100	100	6.48	0.00	0.00	0.00	0.00	21	0	0	0	0	22	0	0	0	0	0	22
	132-00	13200	100	7.65	0.00	0.00	0.00	0.00	26	0	0	0	0	48	0	0	0	0	0	48
	133-00	13300	100	8.06	0.00	0.00	0.00	0.00	29	0	0	0	0	77	0	0	0	0	0	77
	134-00	13400	100	8.09	0.00	0.00	0.00	0.00	30	0	0	0	0	107	0	0	0	0	0	107
	135-00	13500	100	8.14	0.00	0.00	0.00	0.00	30	0	0	0	0	137	0	0	0	0	0	137
	136-00	13600	100	8.12	0.00	0.00	0.00	0.00	30	0	0	0	0	168	0	0	0	0	0	168
	137-00	13700	100	8.17	0.00	0.00	0.00	0.00	30	0	0	0	0	198	0	0	0	0	0	198
	138-00	13800	100	8.00	0.00	0.00	0.00	0.00	30	0	0	0	0	228	0	0	0	0	0	228
	139-00	13900	100	7.86	0.00	0.00	0.00	0.00	29	0	0	0	0	257	0	0	0	0	0	257
	140-00	14000	100	7.92	0.00	0.00	0.00	0.00	29	0	0	0	0	286	0	0	0	0	0	286
	140-37	14037	37	7.98	0.00	0.00	0.00	0.00	11	0	0	0	0	297	0	0	0	0	0	297
	141-00	14100	63	8.25	0.00	0.00	0.00	0.00	19	0	0	0	0	316	0	0	0	0	0	316
	142-00	14200	100	8.16	0.00	0.00	0.00	0.00	30	0	0	0	0	346	0	0	0	0	0	346
	143-00	14300	100	8.10	0.00	0.00	0.00	0.00	30	0	0	0	0	377	0	0	0	0	0	377
	144-00	14400	100	8.04	0.00	0.00	0.00	0.00	30	0	0	0	0	406	0	0	0	0	0	406
	145-00	14500	100	7.96	0.00	0.00	0.00	0.00	30	0	0	0	0	436	0	0	0	0	0	436
	146-00	14600	100	8.01	0.00	0.00	0.00	0.00	30	0	0	0	0	466	0	0	0	0	0	466
	147-00	14700	100	8.04	0.00	0.00	0.00	0.00	30	0	0	0	0	495	0	0	0	0	0	495
	148-00	14800	100	7.87	0.00	0.00	0.00	0.00	29	0	0	0	0	525	0	0	0	0	0	525
	149-00	14900	100	7.76	0.00	0.00	0.00	0.00	29	0	0	0	0	554	0	0	0	0	0	554
	150-00	15000	100	7.06	0.00	0.00	0.00	0.00	27	0	0	0	0	581	0	0	0	0	0	581
	151-00	15100	100	6.52	0.00	0.00	0.00	0.00	25	0	0	0	0	606	0	0	0	0	0	606
	152-00	15200	100	1.24	0.00	0.04	0.00	0.00	14	0	0	0	0	621	0	0	0	0	0	621
	153-00	15300	100	1.00	0.00	0.17	0.00	0.00	4	0	0	0	0	625	1	0	0	0	0	624
	154-00	15400	100	1.08	0.00	0.14	0.00	0.00	4	0	1	0	0	629	1	0	0	0	0	627
	155-00	15500	100	1.00	0.00	0.09	0.00	0.00	4	0	0	0	0	633	2	0	0	0	0	631
	156-00	15600	100	0.95	0.00	0.11	0.00	0.00	4	0	0	0	0	636	2	0	0	0	0	634
	157-00	15700	100	1.20	0.00	0.00	0.00	0.00	4	0	0	0	0	640	3	0	0	0	0	638
	158-00	15800	100	1.00	0.00	0.13	0.00	0.00	4	0	0	0	0	644	3	0	0	0	0	641
	159-00	15900	100	1.06	0.00	0.11	0.00	0.00	4	0	0	0	0	648	3	0	0	0	0	645
	160-00	16000	100	1.02	0.00	0.15	0.00	0.00	4	0	0	0	0	652	4	0	0	0	0	648
	161-00	16100	100	0.98	0.00	0.22	0.00	0.00	4	0	1	0	0	656	5	0	0	0	0	651
	162-00	16200	100	0.76	0.00	0.32	0.00	0.00	3	0	1	0	0	659	6	0	0	0	0	653
	163-00	16300	100	8.13	0.00	0.00	0.00	0.00	16	0	1	0	0	675	7	0	0	0	0	668
	164-00	16400	100	1.12	0.00	0.15	0.00	0.00	17	0	0	0	0	692	7	0	0	0	0	685
	165-00	16500	100	1.19	0.00	0.03	0.00	0.00	4	0	0	0	0	697	8	0	0	0	0	689
	166-00	16600	100	1.03	0.00	0.11	0.00	0.00	4	0	0	0	0	701	8	0	0	0	0	693
	167-00	16700	100	1.03	0.00	0.06	0.00	0.00	4	0	0	0	0	705	8	0	0	0	0	697
	168-00	16800	100	0.96	0.00	0.19	0.00	0.00	4	0	0	0	0	709	9	0	0	0	0	700
	169-00	16900	100	0.87	0.00	0.35	0.00	0.00	3	0	1	0	0	712	10	0	0	0	0	702
	170-00	17000	100	0.92	0.00	0.20	0.00	0.00	3	0	1	0	0	716	11	0	0	0	0	704
	171-00	17100	100	0.99	0.00	0.17	0.00	0.00	4	0	1	0	0	719	12	0	0	0	0	707
	172-00	17200	100	0.92	0.00	0.21	0.00	0.00	4	0	1	0	0	723	13	0	0	0	0	710
	173-00	17300	100	0.98	0.00	0.16	0.00	0.00	4	0	1	0	0	726	14	0	0	0	0	712
	174-00	17400	100	1.06	0.00	0.21	0.00	0.00	4	0	1	0	0	730	15	0	0	0	0	715
	175-00	17500	100	1.20	0.00	0.07	0.00	0.00	4	0	1	0	0	734	16	0	0	0	0	719
	176-00	17600	100	1.16	0.00	0.10	0.00	0.00	4	0	0	0	0	739	16	0	0	0	0	723
	177-00	17700	100	0.98	0.00	0.27	0.00	0.00	4	0	1	0	0	743	17	0	0	0	0	726

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NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: ((CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR))	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR))	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: ((CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR))	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - (FILL * FILL FACTOR))	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76

US 12/18 WB MEDIAN SHOULDER

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	FBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	FBS	CUT 1.00	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50	EXPANDED EBS BACKFILL 1.30	REDUCED MARSH IN FILL 0.60	REDUCED EBS IN FILL 0.80	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			NOTE 1		NOTE 4	NOTE 5	NOTE 6	NOTE 7	NOTE 8
0010	178+00	17800	100	1.00	0.00	0.09	0.00	0.00	4	0	1	0	0	746	18	0	0	0	0	729
	179+00	17900	100	1.04	0.00	0.09	0.00	0.00	4	0	0	0	0	750	18	0	0	0	0	732
	180+00	18000	100	1.11	0.00	0.04	0.00	0.00	4	0	0	0	0	754	18	0	0	0	0	736
	181+00	18100	100	1.08	0.00	0.11	0.00	0.00	4	0	0	0	0	758	19	0	0	0	0	739
	182+00	18200	100	7.15	0.00	0.00	0.00	0.00	15	0	0	0	0	773	19	0	0	0	0	754
	182+12	18212	12	7.76	0.00	0.00	0.00	0.00	3	0	0	0	0	777	19	0	0	0	0	758
	182+22	18222	10	7.90	0.00	0.00	0.00	0.00	3	0	0	0	0	780	19	0	0	0	0	761
	183+00	18300	78	9.30	0.00	0.00	0.00	0.00	25	0	0	0	0	804	19	0	0	0	0	786
	184+00	18400	100	8.12	0.00	0.00	0.00	0.00	32	0	0	0	0	837	19	0	0	0	0	818
	185+00	18500	100	8.64	0.00	0.00	0.00	0.00	31	0	0	0	0	868	19	0	0	0	0	849
	186+00	18600	100	7.01	0.00	0.00	0.00	0.00	29	0	0	0	0	897	19	0	0	0	0	878
	187+00	18700	100	8.15	0.00	0.00	0.00	0.00	28	0	0	0	0	925	19	0	0	0	0	906
	188+00	18800	100	8.23	0.00	0.00	0.00	0.00	30	0	0	0	0	955	19	0	0	0	0	936
	189+00	18900	100	7.99	0.00	0.00	0.00	0.00	30	0	0	0	0	985	19	0	0	0	0	966
	190+00	19000	100	8.07	0.00	0.00	0.00	0.00	30	0	0	0	0	1,015	19	0	0	0	0	996
	191+00	19100	100	8.12	0.00	0.00	0.00	0.00	30	0	0	0	0	1,045	19	0	0	0	0	1,026
	192+00	19200	100	8.37	0.00	0.00	0.00	0.00	31	0	0	0	0	1,075	19	0	0	0	0	1,056
	193+00	19300	100	8.60	0.00	0.00	0.00	0.00	31	0	0	0	0	1,107	19	0	0	0	0	1,088
	194+00	19400	100	5.87	0.00	0.00	0.00	0.00	27	0	0	0	0	1,134	19	0	0	0	0	1,115
	195+00	19500	100	1.40	0.00	0.03	0.00	0.00	13	0	0	0	0	1,147	19	0	0	0	0	1,128
	196+00	19600	100	1.85	0.00	0.00	0.00	0.00	6	0	0	0	0	1,153	19	0	0	0	0	1,134
	196+15	19615	15	1.75	0.00	0.00	0.00	0.00	1	0	0	0	0	1,154	19	0	0	0	0	1,135
	196+27	19627	12	1.55	0.00	0.01	0.00	0.00	1	0	0	0	0	1,155	19	0	0	0	0	1,136
	197+00	19700	73	1.44	0.00	0.01	0.00	0.00	4	0	0	0	0	1,159	19	0	0	0	0	1,140
	198+00	19800	100	1.15	0.00	0.54	0.00	0.00	5	0	1	0	0	1,164	20	0	0	0	0	1,143
	198+16	19816	16	1.19	0.00	0.60	0.00	0.00	1	0	0	0	0	1,164	21	0	0	0	0	1,144
	198+28	19828	12	1.22	0.00	0.58	0.00	0.00	1	0	0	0	0	1,165	21	0	0	0	0	1,144
	199+00	19900	72	8.26	0.00	0.00	0.00	0.00	13	0	1	0	0	1,178	22	0	0	0	0	1,155
	199+53	19953	53	8.82	0.00	0.00	0.00	0.00	17	0	0	0	0	1,194	22	0	0	0	0	1,172
	199+78	19978	25	8.46	0.00	0.00	0.00	0.00	8	0	0	0	0	1,202	22	0	0	0	0	1,180
	200+00	20000	22	8.12	0.00	0.00	0.00	0.00	7	0	0	0	0	1,209	22	0	0	0	0	1,187
	200+03	20003	3	7.99	0.00	0.00	0.00	0.00	1	0	0	0	0	1,210	22	0	0	0	0	1,188
	201+00	20100	97	1.31	0.00	0.07	0.00	0.00	17	0	0	0	0	1,227	22	0	0	0	0	1,204
	202+00	20200	100	1.25	0.00	0.06	0.00	0.00	5	0	0	0	0	1,231	23	0	0	0	0	1,209
	203+00	20300	100	1.13	0.00	0.02	0.00	0.00	4	0	0	0	0	1,236	23	0	0	0	0	1,213
	204+00	20400	100	1.35	0.00	0.00	0.00	0.00	5	0	0	0	0	1,240	23	0	0	0	0	1,218
	205+00	20500	100	1.62	0.00	0.00	0.00	0.00	6	0	0	0	0	1,246	23	0	0	0	0	1,223
	206+00	20600	100	1.29	0.00	0.05	0.00	0.00	5	0	0	0	0	1,251	23	0	0	0	0	1,228
	207+00	20700	100	1.55	0.00	0.00	0.00	0.00	5	0	0	0	0	1,257	23	0	0	0	0	1,234
	208+00	20800	100	1.08	0.00	0.15	0.00	0.00	5	0	0	0	0	1,261	23	0	0	0	0	1,238
	209+00	20900	100	1.08	0.00	0.22	0.00	0.00	4	0	1	0	0	1,265	24	0	0	0	0	1,241
	210+00	21000	100	1.09	0.00	0.19	0.00	0.00	4	0	1	0	0	1,269	25	0	0	0	0	1,244
	211+00	21100	100	0.80	0.00	0.45	0.00	0.00	4	0	1	0	0	1,273	27	0	0	0	0	1,246
	212+00	21200	100	0.80	0.00	0.25	0.00	0.00	3	0	1	0	0	1,276	28	0	0	0	0	1,248
	213+00	21300	100	1.22	0.00	0.16	0.00	0.00	4	0	1	0	0	1,280	29	0	0	0	0	1,250
	213+90 BK	21390	90	1.15	0.00	0.13	0.00	0.00	4	0	0	0	0	1,284	30	0	0	0	0	1,254
						SUBTOTALS CATEGORY 0010			1284	0	24	0	0							

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: ((CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR))	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR))	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: ((CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR))	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - (FILL * FILL FACTOR))	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
RAMP 'A' (AL-RAMP-A)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
										NOTE 1	NOTE 2	NOTE 3			1.00 NOTE 1	1.25	1.50 NOTE 4	1.30 NOTE 5	0.60 NOTE 6	0.80 NOTE 7	NOTE 8
0010	3A	680+75	68075.00	0.00	40.90	0.00	0.07	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
		681+00	68100.00	25.00	44.62	0.00	0.05	0.00	0.00	40	0	0	0	0	40	0	0	0	0	0	40
		681+50	68150.00	50.00	53.30	0.00	0.00	0.00	0.00	91	0	0	0	0	131	0	0	0	0	0	131
		682+00	68200.00	50.00	61.29	0.00	0.04	0.00	0.00	106	0	0	0	0	237	0	0	0	0	0	237
		682+50	68250.00	50.00	70.43	0.00	0.05	0.00	0.00	122	0	0	0	0	359	0	0	0	0	0	359
		683+00	68300.00	50.00	83.22	0.00	0.04	0.00	0.00	142	0	0	0	0	501	0	0	0	0	0	501
		683+50	68350.00	50.00	97.17	0.00	0.07	0.00	0.00	167	0	0	0	0	668	0	0	0	0	0	668
		684+00	68400.00	50.00	107.96	0.00	0.10	0.00	0.00	190	0	0	0	0	858	0	0	0	0	0	858
		684+50	68450.00	50.00	123.29	0.00	0.11	0.00	0.00	214	0	0	0	0	1,072	0	0	0	0	0	1,072
		685+00	68500.00	50.00	135.37	0.00	0.13	0.00	0.00	240	0	0	0	0	1,312	0	0	0	0	0	1,312
		685+50	68550.00	50.00	98.90	0.00	0.10	0.00	0.00	217	0	0	0	0	1,529	0	0	0	0	0	1,529
		686+00	68600.00	50.00	84.69	0.00	0.27	0.00	0.00	170	0	0	0	0	1,699	0	0	0	0	0	1,699
		686+50	68650.00	50.00	104.85	0.00	0.09	0.00	0.00	175	0	0	0	0	1,874	0	0	0	0	0	1,874
		687+00	68700.00	50.00	530.27	8817.57	0.00	0.00	0.00	588	68	0	0	0	2,462	0	0	0	0	0	2,394
		687+50	68750.00	50.00	264.31	0.00	74.18	0.00	0.00	736	68	69	0	0	3,198	86	0	0	0	0	2,976
		688+00	68800.00	50.00	67.67	0.00	318.12	0.00	0.00	307	0	363	0	0	3,505	540	0	0	0	0	2,829
		688+50	68850.00	50.00	23.39	0.00	486.42	0.00	124.69	84	0	745	0	115	3,589	1,356	0	150	0	92	2,097
		689+00	68900.00	50.00	1.02	0.00	981.82	0.00	237.93	23	0	1,359	0	336	3,612	2,719	0	586	0	361	757
		689+50	68950.00	50.00	6.56	0.00	1364.96	0.00	265.25	7	0	2,173	0	466	3,619	4,969	0	1,192	0	734	-1,486
		690+00	69000.00	50.00	18.13	0.00	1727.59	0.00	266.81	23	0	2,863	0	493	3,642	8,055	0	1,833	0	1,128	-4,549
							STAGE 3A SUBTOTALS TOTAL 0010			3642	136	7572	0	1410							
0010	2A	690+50	69050.00	50.00	43.36	0.00	1987.47	0.00	237.50	57	0	3,440	0	467	57	3,066	0	607	0	374	-3,009
		691+00	69100.00	50.00	30.29	0.00	2167.15	0.00	268.88	68	0	3,847	0	469	125	7,406	0	1,217	0	749	-7,281
		691+50	69150.00	50.00	20.47	0.00	2194.91	0.00	331.26	47	0	4,039	0	556	172	11,899	0	1,940	0	1,194	-11,727
		692+00	69200.00	50.00	41.99	0.00	2244.81	0.00	217.02	58	0	4,111	0	508	230	16,530	0	2,600	0	1,600	-16,300
		692+50	69250.00	50.00	88.09	0.00	2294.26	0.00	0.00	120	0	4,203	0	201	350	21,582	0	2,861	0	1,761	-21,232
		692+65	69265.00	15.00	112.11	0.00	2324.29	0.00	0.00	56	0	1,283	0	0	406	23,186	0	2,861	0	1,761	-22,780
		693+00	69300.00	35.00	144.50	0.00	2194.45	0.00	0.00	166	0	2,929	0	0	572	26,847	0	2,861	0	1,761	-26,275
		693+50	69350.00	50.00	127.03	0.00	2044.00	0.00	0.00	251	0	3,924	0	0	823	31,752	0	2,861	0	1,761	-30,929
		694+00	69400.00	50.00	93.78	0.00	2086.13	0.00	0.00	204	0	3,824	0	0	1,027	36,532	0	2,861	0	1,761	-35,505
		694+50	69450.00	50.00	58.45	0.00	2113.30	0.00	0.00	141	0	3,888	0	0	1,168	41,392	0	2,861	0	1,761	-40,224
		695+00	69500.00	50.00	24.34	0.00	2323.01	0.00	0.00	77	0	4,108	0	0	1,245	46,527	0	2,861	0	1,761	-45,282
							STAGE 2A SUBTOTALS TOTAL 0010			1245	0	39596	0	2201							
							PROJECT 3080-01-76 SUBTOTALS 0010			4887	136	47168	0	3611							

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
RAMP 'B' (ALI-RAMP-3)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
					CUT	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
																1.00	1.25	1.50	1.00	1.30	0.60	0.80	
										NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
0010	2A	698+25.93	69825.93	0.00	165.63	0.00	2052.23	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		698+30	69830.00	4.07	175.66	0.00	1918.72	0.00	0.00	26	0	299	0	0	0	26	374	0	0	0	0	0	-348
		698+50	69850.00	20.00	300.21	0.00	1621.26	0.00	0.00	176	0	1,311	0	0	0	202	2,013	0	0	0	0	0	-1,811
		699+00	69900.00	50.00	504.59	0.00	728.84	0.00	0.00	745	0	2,176	0	0	0	947	4,733	0	0	0	0	0	-3,786
		699+21	69921.00	21.00	559.01	0.00	682.92	0.00	0.00	414	0	549	0	0	0	1,361	5,419	0	0	0	0	0	-4,058
		699+50	69950.00	29.00	642.86	0.00	459.52	0.00	0.00	645	0	614	0	0	0	2,006	6,186	0	0	0	0	0	-4,180
		700+00	70000.00	50.00	817.99	0.00	96.17	0.00	0.00	1,353	0	515	0	0	0	3,359	6,830	0	0	0	0	0	-3,471
		700+50	70050.00	50.00	1230.44	0.00	0.01	0.00	0.00	1,897	0	89	0	0	0	5,256	6,941	0	0	0	0	0	-1,685
		701+00	70100.00	50.00	1728.57	0.00	0.00	0.00	0.00	2,740	0	0	0	0	0	7,996	6,941	0	0	0	0	0	1,055
		701+50	70150.00	50.00	2448.40	0.00	0.00	0.00	0.00	3,868	0	0	0	0	0	11,864	6,941	0	0	0	0	0	4,923
		702+00	70200.00	50.00	4243.81	7975.43	0.00	0.00	0.00	6,196	49	0	0	0	0	18,060	6,941	0	0	0	0	0	11,070
		702+50	70250.00	50.00	6842.95	0.00	0.02	0.00	0.00	10,266	49	0	0	0	0	28,326	6,941	0	0	0	0	0	21,287
		703+00	70300.00	50.00	9820.96	0.00	0.00	0.00	0.00	15,430	0	0	0	0	0	43,756	6,941	0	0	0	0	0	36,717
		703+50	70350.00	50.00	11866.72	0.00	0.00	0.00	0.00	20,081	0	0	0	0	0	63,837	6,941	0	0	0	0	0	56,798
		704+00	70400.00	50.00	10557.23	0.00	0.00	0.00	0.00	20,763	0	0	0	0	0	84,600	6,941	0	0	0	0	0	77,561
		704+50	70450.00	50.00	8207.19	0.00	0.00	0.00	0.00	17,374	0	0	0	0	0	101,974	6,941	0	0	0	0	0	94,935
							STAGE 2A SUBTOTALS TOTAL 0010			101974	98	5553	0	0	0								
0010	3A	705+00	70500.00	50.00	6158.47	0.00	0.00	0.00	0.00	13,302	0	0	0	0	0	13,302	0	0	0	0	0	0	13,302
		705+50	70550.00	50.00	4512.54	0.00	0.00	0.00	0.00	9,881	0	0	0	0	0	23,183	0	0	0	0	0	0	23,183
		706+00	70600.00	50.00	3406.84	0.00	0.00	0.00	0.00	7,333	0	0	0	0	0	30,516	0	0	0	0	0	0	30,516
		706+50	70650.00	50.00	2505.10	0.00	0.01	0.00	0.00	5,474	0	0	0	0	0	35,990	0	0	0	0	0	0	35,990
		707+00	70700.00	50.00	1782.22	0.00	0.01	0.00	0.00	3,970	0	0	0	0	0	39,960	0	0	0	0	0	0	39,960
		707+50	70750.00	50.00	1425.89	0.00	5.30	0.00	0.00	2,970	0	5	0	0	0	42,930	6	0	0	0	0	0	42,924
		708+00	70800.00	50.00	1282.84	0.00	12.18	0.00	0.00	2,508	0	16	0	0	0	45,438	26	0	0	0	0	0	45,412
		708+50	70850.00	50.00	1272.43	0.00	14.09	0.00	0.00	2,366	0	24	0	0	0	47,804	56	0	0	0	0	0	47,748
		709+00	70900.00	50.00	1343.47	0.00	4.76	0.00	0.00	2,422	0	17	0	0	0	50,226	78	0	0	0	0	0	50,149
		709+50	70950.00	50.00	1417.67	0.00	0.00	0.00	0.00	2,557	0	4	0	0	0	52,783	83	0	0	0	0	0	52,701
		710+00	71000.00	50.00	1005.00	0.00	0.00	0.00	0.00	2,243	0	0	0	0	0	55,026	83	0	0	0	0	0	54,944
		710+50	71050.00	50.00	532.98	0.00	0.50	0.00	0.00	1,424	0	0	0	0	0	56,450	83	0	0	0	0	0	56,368
		711+00	71100.00	50.00	363.48	0.00	1.31	0.00	0.00	830	0	2	0	0	0	57,280	85	0	0	0	0	0	57,195
		711+10	71110.00	10.00	344.60	0.00	1.61	0.00	0.00	131	0	1	0	0	0	57,411	86	0	0	0	0	0	57,325
							STAGE 3A SUBTOTALS TOTAL 0010			57411	0	69	0	0	0								
							PROJECT 3080-01-76 SUBTOTALS 0010			159385	98	5622	0	0	0								

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
RAMP 'C' (ALI-RAMP-C)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
					CUT	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
										NOTE 1	NOTE 2	NOTE 3				1.00 NOTE 1	1.25	1.50 NOTE 4	1.00	1.30 NOTE 5	0.60 NOTE 6	0.80 NOTE 7	NOTE 8
0010	2A	799+20.90	79920.90	0.00	34.62	0.00	1000.64	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		799+49.9	79949.90	29.00	34.62	0.00	1000.64	0.00	0.00	37	0	1,075	0	0	0	37	1,344	0	0	0	0	0	-1,307
		799+50	79950.00	0.10	63.72	0.00	1984.28	0.00	0.00	0	0	6	0	0	0	37	1,351	0	0	0	0	0	-1,314
		800+00	80000.00	50.00	34.96	0.00	1929.46	0.00	86.12	91	0	3,624	0	0	80	128	5,801	0	0	104	0	64	-5,673
		800+50	80050.00	50.00	33.64	0.00	1792.99	0.00	67.10	64	0	3,447	0	0	142	192	9,968	0	0	289	0	178	-9,776
		801+00	80100.00	50.00	45.53	0.00	1605.21	0.00	72.73	73	0	3,146	0	0	129	265	13,772	0	0	456	0	281	13,507
		801+50	80150.00	50.00	76.79	0.00	1282.83	0.00	60.34	113	0	2,674	0	0	123	378	16,991	0	0	616	0	379	-16,613
		802+00	80200.00	50.00	131.04	0.00	816.40	0.00	54.69	192	0	1,944	0	0	107	570	19,314	0	0	755	0	465	-18,744
		802+49.998	80250.00	50.00	218.32	0.00	436.74	0.00	45.42	323	0	1,160	0	0	93	893	20,671	0	0	876	0	539	-19,778
		802+99.927	80299.93	49.93	292.29	0.00	139.76	0.00	36.76	471	0	533	0	0	76	1,364	21,261	0	0	975	0	600	-19,897
		803+49.847	80349.85	49.92	573.00	0.00	4.96	0.00	11.88	799	0	134	0	0	45	2,163	21,384	0	0	1,034	0	636	-19,221
		803+99.768	80399.77	49.92	918.18	0.00	0.00	0.00	5.45	1,379	0	5	0	0	16	3,542	21,374	0	0	1,054	0	649	-17,832
		804+49.688	80449.69	49.92	1052.21	0.00	0.00	0.00	3.67	1,822	0	0	0	0	8	5,364	21,366	0	0	1,065	0	655	-16,002
							STAGE 2A SUBTOTALS TOTAL 0010			5364	0	17748	0	0	819								
0010	3A	804+99.609	80499.61	49.92	1004.57	0.00	0.00	0.00	3.54	1,901	0	0	0	0	7	1,901	-6	0	0	9	0	6	1,907
		805+49.733	80549.73	50.12	843.14	0.00	8.62	0.00	6.47	1,715	0	8	0	0	9	3,616	-5	0	0	21	0	13	3,621
		806+00.076	80600.08	50.34	713.99	0.00	45.60	0.00	8.42	1,452	0	51	0	0	14	5,068	45	0	0	39	0	24	5,023
		806+50.244	80650.24	50.17	550.95	0.00	68.32	0.00	8.63	1,175	0	106	0	0	16	6,243	162	0	0	60	0	37	6,081
		807+00.363	80700.36	50.12	414.69	0.00	69.47	0.00	8.58	896	0	128	0	0	16	7,139	306	0	0	81	0	50	6,833
		807+50.396	80750.40	50.03	278.44	0.00	50.15	0.00	8.88	642	0	111	0	0	16	7,781	428	0	0	101	0	62	7,353
		808+00.308	80800.31	49.91	289.17	0.00	33.33	0.00	0.00	525	0	77	0	0	8	8,306	517	0	0	112	0	69	7,789
		808+50.063	80850.06	49.75	426.78	0.00	20.22	0.00	0.00	660	0	49	0	0	0	8,966	578	0	0	112	0	69	8,388
		808+99.876	80899.88	49.81	676.03	0.00	7.47	0.00	0.00	971	0	26	0	0	0	9,937	610	0	0	112	0	69	9,327
		809+49.836	80949.84	49.96	920.01	0.00	0.21	0.00	0.00	1,430	0	7	0	0	0	11,367	619	0	0	112	0	69	10,748
		809+99.894	80999.89	50.06	1203.29	0.00	0.00	0.00	0.00	1,968	0	0	0	0	0	13,335	619	0	0	112	0	69	12,716
		810+50.001	81050.00	50.11	1347.01	0.00	0.47	0.00	0.00	2,366	0	0	0	0	0	15,701	619	0	0	112	0	69	15,082
		811+00.108	81100.11	50.11	1197.22	0.00	0.83	0.00	0.00	2,361	0	1	0	0	0	18,062	620	0	0	112	0	69	17,442
		811+50.328	81150.33	50.22	947.74	0.00	5.30	0.00	0.00	1,995	0	6	0	0	0	20,057	628	0	0	112	0	69	19,479
		812+00	81200.00	49.67	518.57	0.00	9.03	0.00	0.00	1,349	0	13	0	0	0	21,406	644	0	0	112	0	69	20,762
		812+50	81250.00	50.00	235.13	0.00	9.60	0.00	0.00	698	0	17	0	0	0	22,104	665	0	0	112	0	69	21,439
		813+00	81300.00	50.00	106.64	0.00	6.82	0.00	0.00	316	0	15	0	0	0	22,420	684	0	0	112	0	69	21,736
		813+50	81350.00	50.00	24.70	0.00	6.64	0.00	0.00	122	0	12	0	0	0	22,542	699	0	0	112	0	69	21,843
		813+69	81369.00	19.00	23.88	0.00	6.35	0.00	0.00	17	0	5	0	0	0	22,559	705	0	0	112	0	69	21,854
							STAGE 3A SUBTOTALS TOTAL 0010			22559	0	632	0	0	86								
							PROJECT 3080-01-76 SUBTOTALS 0010			27923	0	18380	0	0	905								

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
RAMP 'D' (ALI-RAMP-D)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)						
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
										NOTE 1	NOTE 2	NOTE 3		1.00 NOTE 1	1.25	1.50 NOTE 4	1.30 NOTE 5	0.60 NOTE 6	0.80 NOTE 7	NOTE 8
0010	3A	982+86	98286.00	0.00	46.05	0.00	3.40	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0
		983+00	98300.00	14.00	45.92	0.00	4.05	0.00	0.00	24	0	2	0	24	3	0	0	0	0	22
		983+50	98350.00	50.00	44.24	0.00	9.43	0.00	0.00	83	0	12	0	107	18	0	0	0	0	90
		984+00	98400.00	50.00	44.35	0.00	14.83	0.00	0.00	82	0	22	0	189	45	0	0	0	0	144
		984+50	98450.00	50.00	45.75	0.00	23.61	0.00	0.00	83	0	36	0	272	90	0	0	0	0	182
		985+00	98500.00	50.00	48.44	0.00	35.64	0.00	0.00	87	0	55	0	359	159	0	0	0	0	200
		985+50	98550.00	50.00	18.73	0.00	113.97	0.00	0.00	62	0	139	0	421	333	0	0	0	0	89
		986+00	98600.00	50.00	234.98	0.00	0.00	0.00	0.00	235	0	106	0	656	465	0	0	0	0	191
		986+50	98650.00	50.00	328.21	0.00	0.00	0.00	0.00	521	0	0	0	1,177	465	0	0	0	0	712
		987+00	98700.00	50.00	110.87	0.00	18.52	0.00	0.00	407	0	17	0	1,584	486	0	0	0	0	1,098
		987+50	98750.00	50.00	21.47	0.00	92.91	0.00	0.00	123	0	103	0	1,707	615	0	0	0	0	1,092
		988+00	98800.00	50.00	15.45	0.00	200.98	0.00	0.00	34	0	272	0	1,741	955	0	0	0	0	786
		988+50	98850.00	50.00	7.44	0.00	233.81	0.00	0.00	21	0	403	0	1,762	1,459	0	0	0	0	303
		989+00	98900.00	50.00	8.08	0.00	296.68	0.00	0.00	14	0	491	0	1,776	2,073	0	0	0	0	-297
		989+50	98950.00	50.00	0.01	0.00	349.58	0.00	0.00	7	0	598	0	1,783	2,820	0	0	0	0	-1,037
		990+00	99000.00	50.00	1.22	0.00	391.92	0.00	0.00	1	0	687	0	1,784	3,679	0	0	0	0	-1,895
		990+50	99050.00	50.00	41.79	0.00	280.08	0.00	0.00	40	0	622	0	1,824	4,456	0	0	0	0	-2,632
		991+00	99100.00	50.00	0.00	0.00	544.38	0.00	0.00	39	0	763	0	1,863	5,410	0	0	0	0	-3,547
							STAGE 3A SUBTOTALS TOTAL 0010			1863	0	4328	0							
0010	2A	991+50	99150.00	50.00	93.68	0.00	214.91	0.00	0.00	87	0	703	0	87	703	0	0	0	0	-616
		992+00	99200.00	50.00	69.81	0.00	313.05	0.00	0.00	151	0	489	0	238	1,314	0	0	0	0	-1,076
		992+50	99250.00	50.00	63.88	0.00	426.23	0.00	0.00	124	0	685	0	362	2,171	0	0	0	0	-1,809
		993+00	99300.00	50.00	91.07	0.00	534.37	0.00	0.00	143	0	889	0	505	3,282	0	0	0	0	-2,777
		993+50	99350.00	50.00	170.99	0.00	665.31	0.00	0.00	243	0	1,111	0	748	4,671	0	0	0	0	-3,923
		994+00	99400.00	50.00	257.89	0.00	816.16	0.00	0.00	397	0	1,372	0	1,145	6,386	0	0	0	0	-5,241
		994+50	99450.00	50.00	316.96	0.00	979.69	0.00	0.00	532	0	1,663	0	1,677	8,464	0	0	0	0	-6,787
		995+00	99500.00	50.00	350.17	0.00	1174.50	0.00	0.00	618	0	1,995	0	2,295	10,958	0	0	0	0	-8,663
		995+50	99550.00	50.00	392.95	0.00	1370.15	0.00	0.00	688	0	2,356	0	2,983	13,903	0	0	0	0	-10,920
		996+00	99600.00	50.00	3.50	0.00	1833.09	0.00	0.00	367	0	2,966	0	3,350	17,611	0	0	0	0	-14,261
		996+25	99625.00	25.00	0.00	0.00	2828.85	0.00	0.00	2	0	2,158	0	3,352	20,308	0	0	0	0	-16,956
							STAGE 2A SUBTOTALS TOTAL 0010			3352	0	16387	0							
							PROJECT 3080-01-76 SUBTOTALS 0010			5215	0	20715	0							

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIA.	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
USH 12/18 EB AUX RAMP 'E'

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED MARSH IN FILL 0.60 NOTE 6	REDUCED EBS IN FILL 0.80 NOTE 7	MASS ORDINATE NOTE 8
0010	32+00 AH	3200	0	40.34	0.00	6.77	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	32+50	3250	50	36.20	0.00	13.76	0.00	0.00	71	0	19	0	0	71	24	0	0	0	0	47
	32+93	3293	43	50.88	0.00	2.61	0.00	0.00	70	0	13	0	0	141	40	0	0	0	0	101
	33+00	3300	7	50.61	0.00	2.16	0.00	0.00	12	0	1	0	0	153	41	0	0	0	0	112
	33+19	3319	19	49.40	0.00	1.02	0.00	0.00	34	0	1	0	0	188	42	0	0	0	0	145
	33+44	3344	25	48.89	0.00	1.43	0.00	0.00	46	0	1	0	0	233	44	0	0	0	0	189
	33+50	3350	6	48.47	0.00	2.04	143.91	0.00	11	0	0	17	0	245	32	25	0	10	0	213
	34+00	3400	50	47.41	0.00	5.74	154.55	0.00	89	0	7	276	0	334	-167	440	0	176	0	500
	34+50	3450	50	49.32	0.00	6.51	162.86	0.00	90	0	11	294	0	423	-373	881	0	352	0	796
	35+00	3500	50	46.17	0.00	4.43	133.27	0.00	88	0	10	274	0	511	-566	1,292	0	517	0	1,077
	35+50	3550	50	47.57	0.00	6.72	150.72	0.00	87	0	10	263	0	598	-750	1,687	0	675	0	1,349
	36+00	3600	50	51.09	0.00	6.55	159.71	0.00	92	0	12	287	0	690	-951	2,118	0	847	0	1,640
	36+50	3650	50	51.18	0.00	13.07	170.85	0.00	95	0	18	306	0	784	-1,157	2,577	0	1,031	0	1,942
	37+00	3700	50	51.53	0.00	14.98	194.61	0.00	95	0	26	338	0	879	-1,379	3,084	0	1,234	0	2,258
	37+50	3750	50	46.96	0.00	22.55	216.37	0.00	92	0	35	381	0	971	-1,621	3,655	0	1,462	0	2,591
	38+00	3800	50	42.55	0.00	60.62	216.16	0.00	83	0	77	400	0	1,054	-1,825	4,256	0	1,702	0	2,878
	38+50	3850	50	50.38	0.00	23.15	227.81	0.00	86	0	78	411	0	1,140	-2,036	4,873	0	1,949	0	3,176
	39+00	3900	50	56.30	0.00	20.38	219.74	0.00	99	0	40	414	0	1,238	-2,297	5,494	0	2,198	0	3,535
	39+50	3950	50	57.26	0.00	24.73	206.05	0.00	105	0	42	394	0	1,343	-2,540	6,086	0	2,434	0	3,883
	40+00	4000	50	59.77	0.00	33.36	197.40	0.00	108	0	54	374	0	1,451	-2,753	6,646	0	2,658	0	4,204
	40+50	4050	50	57.87	0.00	36.53	183.54	0.00	108	0	65	353	0	1,560	-2,937	7,175	0	2,870	0	4,496
	41+00	4100	50	59.05	0.00	29.35	184.45	0.00	108	0	61	341	0	1,668	-3,116	7,686	0	3,074	0	4,784
	41+50	4150	50	65.60	0.00	24.74	171.26	0.00	115	0	50	329	0	1,784	-3,300	8,180	0	3,272	0	5,084
	42+00	4200	50	68.57	0.00	28.77	163.46	0.00	124	0	50	310	0	1,908	-3,471	8,645	0	3,458	0	5,379
	42+50	4250	50	71.79	0.00	22.4	159.35	0.00	130	0	47	299	0	2,038	-3,636	9,093	0	3,637	0	5,673
	43+00	4300	50	74.08	0.00	29.34	0.00	0.00	135	0	48	148	0	2,173	-3,687	9,315	0	3,726	0	5,859
	43+50	4350	50	76.24	0.00	52.26	0.00	0.00	139	0	76	0	0	2,312	-3,592	9,315	0	3,726	0	5,904
	44+00	4400	50	80.62	0.00	47.43	0.00	0.00	145	0	92	0	0	2,457	-3,477	9,315	0	3,726	0	5,934
	44+33	4433	33	64.04	0.00	49.22	0.00	0.00	89	0	59	0	0	2,546	-3,402	9,315	0	3,726	0	5,949
	44+50	4450	17	72.89	0.00	49.86	0.00	0.00	43	0	31	0	0	2,589	-3,364	9,315	0	3,726	0	5,953
	45+00	4500	50	25.75	0.00	5.77	0.00	0.00	91	0	52	0	0	2,680	-3,300	9,315	0	3,726	0	5,980
						SUBTOTALS CATEGORY 0010			2680	0	1086	6210	0							

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: ((CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR))	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR))	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: ((CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL * FILL FACTOR))	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - ((FILL * FILL FACTOR))	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-75
NB TO EXISTING SOUTH CTH AB (ALI-NB-CTHAB_01)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
													1.00	1.25	
										NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
0010	3A	500+11	50011.00	0.00	147.58	0.00	3.89	0.00	0.00	0	0	0	0	0	0
		500+50	50050.00	39.00	149.31	0.00	3.98	0.00	0.00	214	0	6	214	8	207
		501+00	50100.00	50.00	134.16	0.00	8.40	0.00	0.00	262	0	11	476	21	455
		501+50	50150.00	50.00	130.75	0.00	14.04	0.00	0.00	245	0	21	721	48	674
		502+00	50200.00	50.00	131.59	0.00	22.03	0.00	0.00	243	0	33	964	89	875
		502+30	50230.00	30.00	130.83	0.00	96.32	0.00	0.00	146	0	66	1,110	171	939
		502+50	50250.00	20.00	159.45	0.00	47.79	0.00	0.00	108	0	53	1,218	238	981
		503+00	50300.00	50.00	163.08	0.00	39.87	0.00	0.00	299	0	81	1,517	339	1,178
		503+50	50350.00	50.00	233.04	0.00	26.69	0.00	0.00	367	0	62	1,884	416	1,468
		503+50.1	50350.10	0.10	19.45	0.00	26.68	0.00	0.00	0	0	0	1,884	416	1,468
		504+00	50400.00	49.90	35.20	0.00	22.06	0.00	0.00	51	0	45	1,935	473	1,463
		504+50	50450.00	50.00	56.96	15506.72	32.54	0.00	0.00	85	120	51	2,020	536	1,364
		505+00	50500.00	50.00	92.11	0.00	31.15	0.00	0.00	138	120	59	2,158	610	1,308
							STAGE 3A SUBTOTALS TOTAL 0010			2158	240	488			
0010	2A	505+50	50550.00	50.00	110.64	0.00	61.05	0.00	0.00	188	0	85	188	106	103
		505+79	50579.00	29.00	113.63	0.00	88.03	0.00	0.00	120	0	80	308	206	123
		506+00	50600.00	21.00	91.37	0.00	145.85	0.00	0.00	80	0	91	388	320	89
		506+50	50650.00	50.00	53.04	0.00	319.59	0.00	0.00	134	0	431	522	859	-316
		507+00	50700.00	50.00	34.01	0.00	478.50	0.00	0.00	81	0	739	603	1,783	-1,158
							STAGE 2A SUBTOTALS TOTAL 0010			603	0	1426			
							PROJECT 3080-01-75 SUBTOTALS 0010			2761	240	1914			

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

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PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	EARTHWORK DATA	SHEET 1025	E

PROJECT ID 3080-01-75
SB TO EXISTING SOUTH CTH AB (ALI-SB-CTHAB_01)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
										NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
0010	3A	503+48.86	50348.86	0.00	213.67	0.00	0.00	0.00	0.00	0	0	0	0	0	0
		504+00	50400.00	51.14	279.49	0.00	3.66	0.00	0.00	467	0	3	467	4	463
		504+50	50450.00	50.00	386.04	0.00	5.94	0.00	0.00	616	0	9	1,083	15	1,068
		505+00	50500.00	50.00	290.79	25992.26	9.83	0.00	0.00	627	201	15	1,710	34	1,475
							STAGE 3A SUBTOTALS TOTAL 0010			1710	201	27			
0010	2A	505+50	50550.00	50.00	242.20	0.00	18.28	0.00	0.00	494	0	26	494	33	468
		506+00	50600.00	50.00	315.73	0.00	39.79	0.00	0.00	517	0	54	1,011	100	918
		506+50	50650.00	50.00	319.41	0.00	108.66	0.00	0.00	588	0	137	1,599	271	1,334
		507+00	50700.00	50.00	261.28	0.00	251.59	0.00	0.00	538	0	334	2,137	689	1,455
		507+50	50750.00	50.00	217.06	0.00	425.01	0.00	0.00	443	0	626	2,580	1,471	1,115
							STAGE 2A SUBTOTALS TOTAL 0010			2580	0	1177			
							PROJECT 3080-01-75 SUBTOTALS 0010			4290	201	1204			

PROJECT ID 3080-01-75
EB - MILLPOND ROAD (ALI-EB-MILLPOND)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
										NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
0010	2A	394+15.27	39415.27	0.00	452.76	0.00	44.23	0.00	0.00	0	0	0	0	0	0
		394+50	39450.00	34.73	556.36	8983.17	41.34	0.00	0.00	649	69	55	649	69	511
		395+00	39500.00	50.00	602.22	0.00	71.87	0.00	0.00	1,073	69	105	1,722	200	1,384
		395+33.23	39533.23	33.23	544.10	0.00	200.57	0.00	0.00	705	0	168	2,427	410	1,879
		395+50	39550.00	16.77	583.30	0.00	321.26	0.00	0.00	350	0	162	2,777	613	2,027
							STAGE 2A SUBTOTALS TOTAL 0010			2777	138	490			

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

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PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	EARTHWORK DATA	SHEET 1026	E

PROJECT ID 3080-01-75

EAST OF MILLPOND RAB (ALI-CURB-S5R)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
0010	2A	398+50	39850.00	0.00	8.08	0.00	427.92	0.00	0.00	0	0	0	0	0	0
		399+00	39900.00	50.00	11.58	0.00	554.55	0.00	0.00	18	0	910	18	1,138	-1,120
		399+50	39950.00	50.00	2.74	0.00	422.64	0.00	0.00	13	0	905	31	2,269	-2,238
		400+00	40000.00	50.00	3.49	0.00	88.71	0.00	0.00	6	0	473	37	2,860	-2,823
		400+25	40025.00	25.00	5.43	0.00	7.84	0.00	0.00	4	0	45	41	2,916	-2,875
							STAGE 2A SUBTOTALS TOTAL 0010			41	0	2333			

PROJECT ID 3080-01-75

NB - MILLPOND RAB TO SOUTH CTH AB INTERCHANGE RAB (ALI-NB-CTHAB_01)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
0010	2A	509+50	50950.00	0.00	13.21	0.00	811.07	0.00	0.00	0	0	0	0	0	0
		509+76.77	50976.77	26.77	12.80	0.00	765.19	0.00	0.00	13	0	781	13	976	-963
		510+00	51000.00	23.23	13.55	0.00	711.89	0.00	0.00	11	0	635	24	1,770	-1,746
		510+50	51050.00	50.00	15.29	0.00	658.66	0.00	0.00	27	0	1,269	51	3,356	-3,305
		511+00	51100.00	50.00	16.94	0.00	686.10	0.00	0.00	30	0	1,245	81	4,913	-4,832
		511+50	51150.00	50.00	27.31	0.00	729.84	0.00	0.00	41	0	1,311	122	6,551	-6,429
		512+00	51200.00	50.00	17.05	0.00	810.34	0.00	0.00	41	0	1,426	163	8,334	-8,171
		512+50	51250.00	50.00	9.70	0.00	889.76	0.00	0.00	25	0	1,574	188	10,301	-10,113
		513+00	51300.00	50.00	10.27	0.00	1121.00	0.00	0.00	18	0	1,862	206	12,629	-12,423
		513+50	51350.00	50.00	2.73	0.00	1255.30	0.00	0.00	12	0	2,200	218	15,379	-15,161
		514+00	51400.00	50.00	6.46	0.00	1488.66	0.00	0.00	9	0	2,541	227	18,555	-18,328
		514+00.1	51400.10	0.10	0.00	0.00	469.48	0.00	0.00	0	0	4	227	18,560	-18,333
		514+50	51450.00	49.90	0.00	0.00	517.15	0.00	0.00	0	0	912	227	19,700	-19,473
		515+00	51500.00	50.00	0.00	0.00	640.27	0.00	0.00	0	0	1,072	227	21,040	-20,813
		515+50	51550.00	50.00	0.00	0.00	849.31	0.00	0.00	0	0	1,379	227	22,764	-22,537
		515+90	51590.00	40.00	0.00	0.00	1112.77	0.00	0.00	0	0	1,453	227	24,580	-24,353
							STAGE 2A SUBTOTALS TOTAL 0010			227	0	19664			

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

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PROJECT ID 3080-01-75
WB - MILLPOND ROAD (ALI-WB-MILLPOND)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
													1.00	1.25	
										NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
0010	2A	395+50	39550.00	0.00	282.94	0.00	96.10	0.00	0.00	0	0	0	0	0	0
		396+00	39600.00	50.00	229.21	0.00	302.35	0.00	0.00	474	0	369	474	461	13
							STAGE 2A SUBTOTALS TOTAL 0010			474	0	369			

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-75

SB MILLPOND RAB TO SOUTH CTH AB INTERCHANGE RAB (ALI-SB-CTHAB_01)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
0010	2A	510+25	51025.00	0.00	171.69	0.00	516.13	0.00	0.00	0	0	0	0	0	0
		510+50	51050.00	25.00	70.92	0.00	489.10	0.00	0.00	112	0	465	112	581	-469
		511+00	51100.00	50.00	51.91	0.00	527.46	0.00	0.00	114	0	941	226	1,758	-1,532
		511+50	51150.00	50.00	33.02	0.00	599.67	0.00	0.00	79	0	1,044	305	3,063	-2,758
		512+00	51200.00	50.00	12.00	0.00	708.05	0.00	0.00	42	0	1,211	347	4,576	-4,229
		512+50	51250.00	50.00	17.50	0.00	749.51	0.00	0.00	27	0	1,350	374	6,264	-5,890
		513+00	51300.00	50.00	82.09	0.00	704.86	0.00	0.00	92	0	1,347	466	7,948	-7,482
		513+50	51350.00	50.00	45.42	0.00	846.61	0.00	0.00	118	0	1,437	584	9,744	-9,160
		514+00	51400.00	50.00	28.88	0.00	1007.00	0.00	0.00	69	0	1,716	653	11,889	-11,236
		514+50	51450.00	50.00	25.12	0.00	1034.29	0.00	0.00	50	0	1,890	703	14,251	-13,548
		515+00	51500.00	50.00	20.74	0.00	1082.92	0.00	0.00	42	0	1,960	745	16,701	-15,956
		515+50	51550.00	50.00	10.96	0.00	1199.93	0.00	0.00	29	0	2,114	774	19,344	-18,570
		516+00	51600.00	50.00	0.00	0.00	1609.69	0.00	0.00	10	0	2,601	784	22,595	-21,811
							STAGE 2A SUBTOTALS TOTAL 0010			784	0	18076			

PROJECT ID 3080-01-75

NB RIGHT TURN TO RAMP 'B' (ALI-CURB-S3R)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
0010	2A	50+40	5040.00	0.00	5.75	0.00	1013.11	0.00	0.00	0	0	0	0	0	0
		50+50	5050.00	10.00	6.41	0.00	1041.86	0.00	0.00	2	0	381	2	476	-474
		51+00	5100.00	50.00	9.07	0.00	1229.47	0.00	0.00	14	0	2,103	16	3,105	-3,089
		51+50	5150.00	50.00	25.33	0.00	1415.51	0.00	0.00	32	0	2,449	48	6,166	-6,118
		52+00	5200.00	50.00	66.87	0.00	1606.19	0.00	0.00	85	0	2,798	133	9,664	-9,531
		52+50	5250.00	50.00	114.00	0.00	1543.29	0.00	0.00	167	0	2,916	300	13,309	-13,009
							STAGE 2A SUBTOTALS TOTAL 0010			300	0	10647			

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-75
NB/SB - TO EXISTING NORTH CTH AB (ALI-NB-CTHAB_01)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
										NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
0010	2A	527+00	52700.00	0.00	0.00	0.00	757.28	0.00	0.00	0	0	0	0	0	0
		527+50	52750.00	50.00	23.64	0.00	513.73	0.00	0.00	22	0	1,177	22	1,471	-1,449
		528+00	52800.00	50.00	48.74	0.00	332.73	0.00	0.00	67	0	784	89	2,451	-2,362
		528+50	52850.00	50.00	62.11	0.00	255.55	0.00	0.00	103	0	545	192	3,133	-2,941
		529+00	52900.00	50.00	71.07	0.00	199.79	0.00	0.00	123	0	422	315	3,660	-3,345
		529+50	52950.00	50.00	91.62	0.00	133.14	0.00	0.00	151	0	308	466	4,045	-3,579
		530+00	53000.00	50.00	104.09	0.00	62.74	0.00	0.00	181	0	181	647	4,271	-3,624
		530+50	53050.00	50.00	160.47	0.00	23.15	0.00	0.00	245	0	80	892	4,371	-3,479
		531+00	53100.00	50.00	279.59	0.00	5.34	0.00	0.00	407	0	26	1,299	4,404	-3,105
		531+50	53150.00	50.00	358.27	0.00	0.00	0.00	0.00	591	0	5	1,890	4,410	-2,520
		532+00	53200.00	50.00	71.87	0.00	123.71	0.00	0.00	398	0	115	2,288	4,554	-2,266
		532+50	53250.00	50.00	318.80	0.00	19.24	0.00	0.00	362	0	132	2,650	4,719	-2,069
		533+00	53300.00	50.00	2.21	0.00	109.10	0.00	0.00	297	0	119	2,947	4,868	-1,921
							STAGE 2A SUBTOTALS TOTAL 0010			2947	0	3894			
0010	3A	533+50	53350.00	50.00	0.69	0.00	112.10	0.00	0.00	3	0	205	3	205	-202
		534+00	53400.00	50.00	34.19	0.00	121.45	0.00	0.00	32	0	216	35	475	-440
		534+35	53435.00	35.00	21.79	0.00	163.81	0.00	0.00	36	0	185	71	706	-635
		534+50	53450.00	15.00	2.04	0.00	138.33	0.00	0.00	7	0	84	78	811	-733
		535+00	53500.00	50.00	26.36	0.00	152.11	0.00	0.00	26	0	269	104	1,148	-1,044
		535+30.794	53530.79	30.79	31.58	0.00	149.92	0.00	0.00	33	0	172	137	1,363	-1,226
		535+50	53550.00	19.21	51.93	0.00	173.04	0.00	0.00	30	0	115	167	1,506	-1,339
		536+00	53600.00	50.00	32.48	0.00	187.82	0.00	0.00	78	0	334	245	1,924	-1,679
		536+50	53650.00	50.00	131.39	9704.19	124.07	0.00	0.00	152	75	289	397	2,285	-1,963
		537+00	53700.00	50.00	122.71	0.00	103.52	0.00	0.00	235	75	211	632	2,549	-2,067
		537+50	53750.00	50.00	136.13	0.00	76.62	0.00	0.00	240	0	167	872	2,758	-2,036
		538+00	53800.00	50.00	141.14	0.00	21.50	0.00	0.00	257	0	91	1,129	2,871	-1,892
		538+50	53850.00	50.00	136.41	0.00	17.12	0.00	0.00	257	0	36	1,386	2,916	-1,680
		538+99.556	53899.56	49.56	119.21	0.00	0.17	0.00	0.00	235	0	16	1,621	2,936	-1,465
							STAGE 3A SUBTOTALS TOTAL 0010			1621	150	2390			
							PROJECT 3080-01-75 SUBTOTALS 0010			4568	150	6284			

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

9

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PROJECT NO: 3080-01-75 | HWY: USH 12 | COUNTY: DANE | EARTHWORK DATA | SHEET 1030 | E

PROJECT ID 3080-01-76
MILLPOND RD

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) MARSH EXC	AREA (SF) EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	INCREMENTAL VOL (CY) (UNADJUSTED) MARSH EXC	INCREMENTAL VOL (CY) (UNADJUSTED) EBS	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.25	CUMULATIVE VOL (CY) EXPANDED MARSH BACKFILL 1.50 NOTE 4	CUMULATIVE VOL (CY) EXPANDED EBS BACKFILL 1.30 NOTE 5	CUMULATIVE VOL (CY) REDUCED MARSH IN FILL 0.60 NOTE 6	CUMULATIVE VOL (CY) REDUCED EBS IN FILL 0.80 NOTE 7	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 8
0020	323+99 AH	32399	0	15.50	0.00	7.95	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	324+00	32400	1	15.50	0.00	8.27	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	324+50	32450	50	8.29	0.00	0.00	0.00	0.00	22	0	8	0	0	23	10	0	0	0	0	13
	325+00	32500	50	10.76	0.00	0.00	0.00	0.00	18	0	0	0	0	40	10	0	0	0	0	30
	325+50	32550	50	7.95	0.00	0.00	0.00	0.00	17	0	0	0	0	57	10	0	0	0	0	48
	326+00	32600	50	6.80	0.00	0.24	0.00	0.00	14	0	0	0	0	71	10	0	0	0	0	61
	326+50	32650	50	16.10	0.00	0.26	0.00	0.00	21	0	0	0	0	92	11	0	0	0	0	82
	327+00	32700	50	11.76	0.00	5.39	0.00	0.00	26	0	5	0	0	118	17	0	0	0	0	101
	327+15	32715	15	70.51	0.00	17.54	0.00	0.00	23	0	6	0	0	141	25	0	0	0	0	116
	327+50	32750	35	70.51	0.00	17.54	0.00	0.00	91	0	23	0	0	232	54	0	0	0	0	179
	328+00	32800	50	72.35	0.00	15.25	0.00	0.00	132	0	30	0	0	365	92	0	0	0	0	273
	328+50	32850	50	76.13	0.00	12.19	0.00	0.00	137	0	25	0	0	502	123	0	0	0	0	379
	329+00	32900	50	81.15	0.00	14.62	0.00	0.00	146	0	25	0	0	648	154	0	0	0	0	493
	329+50	32950	50	75.74	0.00	16.27	0.00	0.00	145	0	29	0	0	793	190	0	0	0	0	603
	330+00	33000	50	75.16	0.00	20.56	0.00	0.00	140	0	34	0	0	933	233	0	0	0	0	700
	330+37	33037	37	91.41	0.00	15.03	0.00	0.00	114	0	24	0	0	1,047	263	0	0	0	0	784
	330+50	33050	13	97.01	0.00	28.42	0.00	0.00	45	0	10	0	0	1,092	276	0	0	0	0	816
	330+70	33070	20	109.31	0.00	18.10	0.00	0.00	76	0	17	0	0	1,169	298	0	0	0	0	871
	331+00	33100	30	117.48	0.00	19.31	0.00	0.00	126	0	21	0	0	1,295	324	0	0	0	0	971
	331+50	33150	50	126.44	0.00	16.98	0.00	0.00	226	0	34	0	0	1,521	366	0	0	0	0	1,155
	332+00	33200	50	83.01	0.00	21.75	0.00	0.00	194	0	36	0	0	1,714	411	0	0	0	0	1,304
	332+50	33250	50	78.62	0.00	39.94	0.00	0.00	150	0	57	0	0	1,864	482	0	0	0	0	1,382
	333+00	33300	50	75.23	0.00	39.77	0.00	0.00	142	0	74	0	0	2,007	574	0	0	0	0	1,432
	333+50	33350	50	76.18	0.00	39.72	0.00	0.00	140	0	74	0	0	2,147	666	0	0	0	0	1,480
	334+00	33400	50	75.83	0.00	49.31	0.00	0.00	141	0	82	0	0	2,288	769	0	0	0	0	1,518
	334+50	33450	50	74.11	0.00	55.72	0.00	0.00	139	0	97	0	0	2,426	891	0	0	0	0	1,535
	335+00	33500	50	73.24	0.00	53.72	0.00	0.00	136	0	101	0	0	2,563	1,018	0	0	0	0	1,545
	335+50	33550	50	68.81	0.00	44.25	0.00	0.00	132	0	91	0	0	2,694	1,132	0	0	0	0	1,563
	336+00	33600	50	64.28	0.00	42.39	0.00	0.00	123	0	80	0	0	2,818	1,232	0	0	0	0	1,586
	336+50	33650	50	62.19	0.00	56.75	0.00	0.00	117	0	92	0	0	2,935	1,346	0	0	0	0	1,589
	337+00	33700	50	62.05	0.00	58.28	0.00	0.00	115	0	107	0	0	3,050	1,479	0	0	0	0	1,571
	337+50	33750	50	61.54	0.00	57.88	0.00	0.00	114	0	108	0	0	3,164	1,614	0	0	0	0	1,550
	338+00	33800	50	60.61	0.00	56.42	0.00	0.00	113	0	106	0	0	3,277	1,746	0	0	0	0	1,531
	338+50	33850	50	63.73	0.00	57.08	0.00	0.00	115	0	105	0	0	3,392	1,877	0	0	0	0	1,515
	339+00	33900	50	62.69	0.00	61.89	0.00	0.00	117	0	110	0	0	3,509	2,015	0	0	0	0	1,494
	339+50	33950	50	61.75	0.00	59.50	0.00	0.00	115	0	112	0	0	3,625	2,155	0	0	0	0	1,469
	340+00	34000	50	51.85	0.00	61.94	0.00	0.00	105	0	112	0	0	3,730	2,296	0	0	0	0	1,434
	340+05	34005	5	52.14	0.00	59.96	0.00	0.00	10	0	11	0	0	3,739	2,310	0	0	0	0	1,429
	340+90	34090	85	40.00	0.00	25.56	0.00	0.00	145	0	135	0	0	3,884	2,478	0	0	0	0	1,406
	341+00	34100	10	36.90	0.00	20.23	0.00	0.00	14	0	8	0	0	3,899	2,489	0	0	0	0	1,410
	341+50	34150	50	68.68	0.00	4.12	0.00	0.00	98	0	23	0	0	3,996	2,517	0	0	0	0	1,479
	342+00	34200	50	197.64	0.00	0.00	0.00	0.00	247	0	4	0	0	4,243	2,522	0	0	0	0	1,721
	342+50	34250	50	39.68	0.00	0.00	0.00	0.00	220	0	0	0	0	4,463	2,522	0	0	0	0	1,941
	343+00	34300	50	55.55	0.00	0.00	0.00	0.00	88	0	0	0	0	4,551	2,522	0	0	0	0	2,029
	343+50	34350	50	46.57	0.00	0.31	0.00	0.00	95	0	0	0	0	4,646	2,522	0	0	0	0	2,123
	344+00	34400	50	29.42	0.00	2.01	0.00	0.00	70	0	2	0	0	4,716	2,525	0	0	0	0	2,191
	344+50 BK	34450	50	28.51	0.00	2.91	0.00	0.00	54	0	5	0	0	4,770	2,531	0	0	0	0	2,239

CONTINUED ON NEXT PAGE

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
MILLPOND RD

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT 1.00	EXPANDED FILL 1.25	FXPANDED MARSH BACKFILL 1.50	FXPANDED EBS BACKFILL 1.30	REDUCED MARSH IN FILL 0.60	REDUCED EBS IN FILL 0.80	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			NOTE 1		NOTE 4	NOTE 5	NOTE 6	NOTE 7	NOTE 8
0020	345+90 AH	34590	0	158.86	0.00	0	0.00	0.00	0	0	0	0	0	4,770	2,531	0	0	0	0	2,239
	346+00	34600	10	161.64	0.00	0	0.00	0.00	59	0	0	0	0	4,829	2,531	0	0	0	0	2,298
	346+50	34650	50	120.28	0.00	0.00	0.00	0.00	261	0	0	0	0	5,090	2,531	0	0	0	0	2,559
	347+00	34700	50	24.02	0.00	12.78	0.00	0.00	134	0	12	0	0	5,224	2,545	0	0	0	0	2,678
	347+50	34750	50	0.00	0.00	73.04	0.00	0.00	22	0	79	0	0	5,246	2,645	0	0	0	0	2,601
	348+00	34800	50	0.19	0.00	60.70	0.00	0.00	0	0	124	0	0	5,246	2,800	0	0	0	0	2,446
	348+50	34850	50	2.36	0.00	39.38	0.00	0.00	2	0	93	0	0	5,248	2,915	0	0	0	0	2,333
	349+00	34900	50	15.44	0.00	127.42	0.00	0.00	16	0	154	0	0	5,265	3,108	0	0	0	0	2,156
	349+50	34950	50	4.12	0.00	132.42	0.00	0.00	18	0	241	0	0	5,283	3,409	0	0	0	0	1,874
	350+00	35000	50	4.62	0.00	151.34	0.00	0.00	8	0	263	0	0	5,291	3,738	0	0	0	0	1,553
	350+50	35050	50	2.88	0.00	133.74	0.00	0.00	7	0	264	0	0	5,298	4,068	0	0	0	0	1,230
	351+00	35100	50	2.65	0.00	143.01	0.00	0.00	5	0	256	0	0	5,303	4,388	0	0	0	0	915
	351+50	35150	50	2.45	0.00	182.19	0.00	0.00	5	0	301	0	0	5,308	4,764	0	0	0	0	543
	352+00	35200	50	2.21	0.00	234.83	0.00	0.00	4	0	386	0	0	5,312	5,247	0	0	0	0	65
	352+50	35250	50	1.34	0.00	266.76	0.00	0.00	3	0	464	0	0	5,315	5,828	0	0	0	0	-512
	353+00	35300	50	1.43	0.00	289.58	0.00	0.00	3	0	515	0	0	5,318	6,471	0	0	0	0	-1,153
	353+50	35350	50	1.25	0.00	308.04	0.00	0.00	2	0	553	0	0	5,320	7,163	0	0	0	0	-1,843
	354+00	35400	50	1.23	0.00	331.61	0.00	0.00	2	0	592	0	0	5,323	7,903	0	0	0	0	-2,581
	354+50	35450	50	0.88	0.00	376.00	0.00	0.00	2	0	655	0	0	5,325	8,722	0	0	0	0	-3,398
	355+00	35500	50	0.67	0.00	407.79	0.00	0.00	1	0	726	0	0	5,326	9,630	0	0	0	0	4,303
	355+50	35550	50	0.98	0.00	408.57	0.00	0.00	2	0	756	0	0	5,328	10,574	0	0	0	0	-5,247
	356+00	35600	50	1.04	0.00	407.93	0.00	0.00	2	0	756	0	0	5,330	11,519	0	0	0	0	-6,190
	356+50	35650	50	1.07	0.00	533.11	0.00	0.00	2	0	871	0	0	5,331	12,609	0	0	0	0	-7,277
	357+00	35700	50	1.31	0.00	454.11	0.00	0.00	2	0	914	0	0	5,334	13,751	0	0	0	0	-8,418
	357+50	35750	50	2.32	0.00	398.61	0.00	0.00	3	0	790	0	0	5,337	14,738	0	0	0	0	-9,401
	358+00	35800	50	3.98	0.00	364.73	0.00	0.00	6	0	707	0	0	5,343	15,622	0	0	0	0	-10,279
	358+50	35850	50	3.87	0.00	359.86	0.00	0.00	7	0	671	0	0	5,350	16,460	0	0	0	0	-11,110
	359+00	35900	50	4.78	0.00	166.90	0.00	0.00	8	0	488	0	0	5,358	17,070	0	0	0	0	-11,712
	359+50	35950	50	5.31	0.00	149.45	0.00	0.00	9	0	293	0	0	5,367	17,436	0	0	0	0	-12,069
	360+00	36000	50	6.36	0.00	146.62	0.00	0.00	11	0	274	0	0	5,378	17,779	0	0	0	0	12,401
	360+50	36050	50	6.51	0.00	160.68	0.00	0.00	12	0	285	0	0	5,390	18,135	0	0	0	0	-12,744
	361+00	36100	50	5.66	0.00	175.68	0.00	0.00	11	0	311	0	0	5,401	18,524	0	0	0	0	-13,122
	361+50	36150	50	4.36	0.00	188.09	0.00	0.00	9	0	337	0	0	5,411	18,945	0	0	0	0	-13,534
	362+00	36200	50	3.53	0.00	198.97	0.00	0.00	7	0	358	0	0	5,418	19,393	0	0	0	0	-13,975
	362+50	36250	50	2.96	0.00	187.02	0.00	0.00	6	0	357	0	0	5,424	19,840	0	0	0	0	-14,416
	363+00	36300	50	2.47	0.00	168.70	0.00	0.00	5	0	329	0	0	5,429	20,251	0	0	0	0	-14,822
	363+50	36350	50	2.26	0.00	164.25	0.00	0.00	4	0	308	0	0	5,433	20,637	0	0	0	0	-15,203
	364+00	36400	50	1.77	0.00	197.62	0.00	0.00	4	0	335	0	0	5,437	21,056	0	0	0	0	-15,618
	364+50	36450	50	1.71	0.00	207.32	0.00	0.00	3	0	375	0	0	5,440	21,524	0	0	0	0	-16,084
	365+00	36500	50	1.02	0.00	183.05	0.00	0.00	3	0	361	0	0	5,443	21,976	0	0	0	0	16,533
	365+50	36550	50	1.23	0.00	148.52	0.00	0.00	2	0	307	0	0	5,445	22,360	0	0	0	0	16,915
	366+00	36600	50	0.76	0.00	133.33	0.00	0.00	2	0	261	0	0	5,447	22,686	0	0	0	0	-17,239
	366+50	36650	50	0.16	0.00	136.31	0.00	0.00	1	0	250	0	0	5,448	22,998	0	0	0	0	-17,550
	367+00	36700	50	0.31	0.00	134.68	0.00	0.00	0	0	251	0	0	5,448	23,312	0	0	0	0	-17,864
	367+50	36750	50	0.13	0.00	142.60	0.00	0.00	0	0	257	0	0	5,449	23,633	0	0	0	0	-18,184
	368+00	36800	50	0.00	1.00	138.49	0.00	0.00	0	0	260	0	0	5,449	23,958	0	0	0	0	-18,509
	368+50	36850	50	52.51	2.00	78.06	0.00	0.00	49	0	201	0	0	5,497	24,209	0	0	0	0	18,711

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NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	F MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	F MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR))]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	F MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	F MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - ((FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
MILLPOND RD

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	FBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	FBS	CUT 1.00	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50	EXPANDED EBS BACKFILL 1.30	REDUCED MARSH IN FILL 0.60	REDUCED EBS IN FILL 0.80	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			NOTE 1		NOTE 4	NOTE 5	NOTE 6	NOTE 7	NOTE 8
0020	369+00	36900	50	115.72	0.00	67.80	0.00	0.00	156	0	136	0	0	5,654	24,378	0	0	0	0	-18,724
	369+50	36950	50	103.76	0.00	53.76	0.00	0.00	202	0	112	0	0	5,856	24,518	0	0	0	0	18,662
	370+00	37000	50	72.11	0.00	55.66	0.00	0.00	163	0	101	0	0	6,019	24,645	0	0	0	0	-18,626
	370+50	37050	50	72.91	0.00	49.63	0.00	0.00	134	0	97	0	0	6,153	24,767	0	0	0	0	-18,613
	371+00	37100	50	76.17	0.00	48.34	0.00	0.00	138	0	91	0	0	6,291	24,880	0	0	0	0	-18,589
	371+50	37150	50	68.53	0.00	47.63	0.00	0.00	134	0	89	0	0	6,425	24,991	0	0	0	0	-18,566
	372+00	37200	50	57.60	0.00	49.61	0.00	0.00	117	0	90	0	0	6,542	25,104	0	0	0	0	-18,562
	372+50	37250	50	44.95	0.00	42.05	0.00	0.00	95	0	85	0	0	6,637	25,210	0	0	0	0	18,573
	373+00	37300	50	93.76	0.00	25.66	0.00	0.00	128	0	63	0	0	6,765	25,288	0	0	0	0	-18,523
	373+50	37350	50	82.68	0.00	14.10	0.00	0.00	163	0	37	0	0	6,929	25,334	0	0	0	0	-18,405
	374+00	37400	50	64.02	0.00	9.82	0.00	0.00	136	0	22	0	0	7,065	25,362	0	0	0	0	-18,297
	374+50	37450	50	23.92	0.00	37.42	0.00	0.00	81	0	44	0	0	7,146	25,417	0	0	0	0	-18,271
	375+00	37500	50	3.78	0.00	104.72	0.00	0.00	26	0	132	0	0	7,172	25,581	0	0	0	0	-18,409
	375+50	37550	50	9.85	0.00	89.39	0.00	0.00	13	0	180	0	0	7,184	25,806	0	0	0	0	18,621
	376+00	37600	50	9.36	0.00	111.29	0.00	0.00	18	0	186	0	0	7,202	26,038	0	0	0	0	-18,836
	376+50	37650	50	2.71	0.00	156.96	0.00	0.00	11	0	248	0	0	7,213	26,349	0	0	0	0	-19,135
	377+00	37700	50	3.88	0.00	229.15	0.00	0.00	6	0	358	0	0	7,219	26,795	0	0	0	0	-19,576
	377+50	37750	50	10.80	0.00	128.59	0.00	0.00	14	0	331	0	0	7,233	27,209	0	0	0	0	-19,976
	378+00	37800	50	7.35	0.00	159.68	0.00	0.00	17	0	267	0	0	7,250	27,543	0	0	0	0	-20,293
	378+50	37850	50	5.71	0.00	170.31	0.00	0.00	12	0	306	0	0	7,262	27,925	0	0	0	0	20,663
	379+00	37900	50	7.43	0.00	142.62	0.00	0.00	12	0	290	0	0	7,274	28,287	0	0	0	0	-21,013
	379+50	37950	50	6.89	0.00	139.29	0.00	0.00	13	0	261	0	0	7,287	28,613	0	0	0	0	-21,326
	380+00	38000	50	6.60	0.00	138.38	0.00	0.00	12	0	257	0	0	7,300	28,935	0	0	0	0	-21,635
	380+50	38050	50	5.38	0.00	154.37	0.00	0.00	11	0	271	0	0	7,311	29,274	0	0	0	0	-21,963
	381+00	38100	50	8.32	0.00	144.04	0.00	0.00	13	0	276	0	0	7,324	29,619	0	0	0	0	-22,296
	381+50	38150	50	11.85	0.00	136.68	0.00	0.00	19	0	260	0	0	7,342	29,944	0	0	0	0	22,602
	382+00	38200	50	0.21	0.00	320.39	0.00	0.00	11	0	423	0	0	7,353	30,473	0	0	0	0	-23,120
	382+28	38228	28	0.11	0.00	199.42	0.00	0.00	0	0	270	0	0	7,354	30,810	0	0	0	0	-23,456
	382+50	38250	22	5.37	0.00	158.23	0.00	0.00	2	0	146	0	0	7,356	30,992	0	0	0	0	-23,636
	383+00	38300	50	5.75	0.00	165.70	0.00	0.00	10	0	300	0	0	7,366	31,367	0	0	0	0	-24,001
	383+50	38350	50	7.86	0.00	149.36	0.00	0.00	13	0	292	0	0	7,379	31,732	0	0	0	0	-24,353
	384+00	38400	50	9.79	0.00	137.08	0.00	0.00	16	0	265	0	0	7,395	32,063	0	0	0	0	24,668
	384+50	38450	50	11.60	0.00	121.49	0.00	12.87	20	0	239	0	12	7,415	32,351	0	15	0	10	-24,936
	385+00	38500	50	13.30	0.00	121.30	0.00	44.10	23	0	225	0	53	7,438	32,579	0	84	0	52	-25,141
	385+40	38540	40	20.20	0.00	119.23	0.00	100.90	25	0	178	0	107	7,463	32,694	0	224	0	138	-25,231
	385+50	38550	10	17.91	0.00	129.86	0.00	81.60	7	0	46	0	34	7,470	32,718	0	268	0	165	-25,248
	385+70	38570	20	11.03	0.00	140.35	0.00	61.60	11	0	100	0	53	7,481	32,790	0	337	0	207	-25,309
	386+00	38600	30	20.43	0.00	158.14	0.00	67.40	17	0	166	0	72	7,498	32,926	0	430	0	264	25,428
	386+50	38650	50	38.24	0.00	76.86	0.00	62.80	54	0	218	0	121	7,552	33,077	0	586	0	361	-25,525
	387+00	38700	50	72.23	0.00	67.17	0.00	67.40	102	0	133	0	121	7,655	33,123	0	743	0	457	-25,469
	387+50	38750	50	241.50	0.00	65.46	0.00	82.50	290	0	123	0	139	7,945	33,138	0	924	0	568	-25,193
	388+00	38800	50	206.27	0.00	64.26	0.00	21.80	415	0	120	0	97	8,360	33,191	0	1,049	0	646	-24,832
	388+50	38850	50	171.42	0.00	61.76	0.00	3.10	350	0	117	0	23	8,709	33,314	0	1,079	0	664	-24,605
	389+00	38900	50	149.50	0.00	64.11	0.00	0.00	297	0	117	0	3	9,007	33,457	0	1,083	0	666	24,451
	389+50	38950	50	163.84	0.00	73.07	0.00	0.00	290	0	127	0	0	9,297	33,616	0	1,083	0	666	-24,319
	390+00	39000	50	169.47	1.00	61.79	0.00	0.00	309	0	125	0	0	9,605	33,772	0	1,083	0	665	-24,167

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NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
MILLPOND RD

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED MARSH IN FILL 0.60 NOTE 6	REDUCED EBS IN FILL 0.80 NOTE 7	MASS ORDINATE NOTE 8
0020	390+50	39050	50	156.64	0.00	68.64	0.00	0.00	297	0	131	0	0	9,593	33,780	0	1,083	0	666	-24,186
	391+00	39100	50	161.94	0.00	74.91	0.00	0.00	295	0	133	0	0	9,888	33,946	0	1,083	0	666	-24,058
	391+50	39150	50	152.51	0.00	95.62	0.00	0.00	291	0	158	0	0	10,180	34,143	0	1,083	0	666	-23,964
	392+00	39200	50	158.90	0.00	124.40	0.00	0.00	288	0	204	0	0	10,468	34,398	0	1,083	0	666	-23,930
	392+50	39250	50	184.58	0.00	163.71	0.00	0.00	318	0	267	0	0	10,786	34,732	0	1,083	0	666	-23,946
	393+00	39300	50	187.15	0.00	182.08	0.00	0.00	344	0	320	0	0	11,130	35,132	0	1,083	0	666	-24,002
	393+50	39350	50	263.01	0.00	174.24	0.00	0.00	417	0	330	0	0	11,547	35,544	0	1,083	0	666	-23,997
	394+00 BK	39400	50	377.19	0.00	85.34	0.00	0.00	593	0	240	0	0	12,140	35,845	0	1,083	0	666	-23,705
						SUBTOTALS CATEGORY 0020			12448	0	29467	0	833							

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
MILLPOND RD - EB AT ROUNDABOUT 'ME'

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			1.00 NOTE 1	1.25	1.50 NOTE 4	1.30 NOTE 5	0.60 NOTE 6	0.80 NOTE 7	NOTE 8
0020	342+50 AH	34250	0	207.53	0.00	0	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	343+00	34300	50	102.77	0.00	0	0.00	0.00	287	0	0	0	0	287	0	0	0	0	0	287
	343+50	34350	50	70.27	0.00	1.69	0.00	0.00	160	0	2	0	0	448	2	0	0	0	0	446
	344+00	34400	50	58.37	0.00	24.34	0.00	0.00	119	0	24	0	0	567	32	0	0	0	0	535
	344+50 BK	34450	50	74.87	0.00	52.68	0.00	0.00	123	0	71	0	0	690	121	0	0	0	0	569
	346+00 AH	34600	0	299.88	0.00	132.94	0.00	0.00	0	0	0	0	0	690	121	0	0	0	0	569
	346+50	34650	50	337.57	0.00	101.69	0.00	0.00	590	0	217	0	0	1,280	393	0	0	0	0	887
	347+00	34700	50	397.64	0.00	61.67	0.00	0.00	681	0	151	0	0	1,961	582	0	0	0	0	1,379
	347+50	34750	50	322.62	0.00	21.48	0.00	0.00	667	0	77	0	0	2,628	678	0	0	0	0	1,950
	348+00	34800	50	4.37	0.00	46.71	0.00	0.00	303	0	63	0	0	2,931	757	0	0	0	0	2,174
	348+50 BK	34850	50	0.03	0.00	75.96	0.00	0.00	4	0	114	0	0	2,935	899	0	0	0	0	2,036
						SUBTOTALS CATEGORY 0020			2935	0	719	0	0							

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
MAAHIC WAY

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			1.00 NOTE 1	1.25	1.50 NOTE 4	1.30 NOTE 5	0.60 NOTE 6	0.80 NOTE 7	NOTE 8
0010	437+75 AH	43775	0	53.80	0.00	0	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	438+00	43800	25	56.53	0.00	0	0.00	0.00	51	0	0	0	0	51	0	0	0	0	0	51
	438+50	43850	50	56.92	0.00	0	0.00	0.00	105	0	0	0	0	156	0	0	0	0	0	156
	439+00	43900	50	58.57	0.00	0	0.00	0.00	107	0	0	0	0	263	0	0	0	0	0	263
	439+50	43950	50	54.81	0.00	0.01	0.00	0.00	105	0	0	0	0	368	0	0	0	0	0	368
	440+00	44000	50	65.15	0.00	0.35	0.00	0.00	111	0	0	0	0	479	0	0	0	0	0	479
	440+35	44035	35	71.54	0.00	25.14	0.00	0.00	89	0	17	0	0	568	21	0	0	0	0	547
	441+00	44100	65	106.76	0.00	6.77	0.00	0.00	215	0	38	0	0	787	69	0	0	0	0	713
	441+50	44150	50	107.53	0.00	7.02	0.00	0.00	198	0	23	0	0	981	85	0	0	0	0	896
	442+00	44200	50	98.90	0.00	26.71	0.00	0.00	191	0	31	0	0	1,172	124	0	0	0	0	1,048
	442+50	44250	50	87.39	0.00	39.02	0.00	0.00	172	0	61	0	0	1,344	200	0	0	0	0	1,144
	443+00	44300	50	142.16	0.00	24.45	0.00	0.00	213	0	59	0	0	1,557	273	0	0	0	0	1,283
	443+50	44350	50	247.40	0.00	2.13	0.00	0.00	361	0	25	0	0	1,918	304	0	0	0	0	1,613
	444+00	44400	50	504.52	0.00	0.49	0.00	0.00	696	0	2	0	0	2,614	307	0	0	0	0	2,307
	444+50	44450	50	527.39	0.00	6.13	0.00	0.00	955	0	6	0	0	3,569	315	0	0	0	0	3,254
	445+00	44500	50	374.78	0.00	3.59	0.00	0.00	650	0	9	0	0	4,219	326	0	0	0	0	3,893
	445+50	44550	50	299.23	0.00	0	0.00	0.00	439	0	3	0	0	4,658	330	0	0	0	0	4,328
	446+00	44600	50	806.96	0.00	0	0.00	0.00	1024	0	0	0	0	5,683	330	0	0	0	0	5,352
	446+50	44650	50	580.20	0.00	0	0.00	0.00	1284	0	0	0	0	6,967	330	0	0	0	0	6,637
	447+00	44700	50	453.35	0.00	12.48	0.00	0.00	957	0	12	0	0	7,924	345	0	0	0	0	7,579
	447+50	44750	50	422.60	0.00	1.65	0.00	0.00	811	0	13	0	0	8,735	361	0	0	0	0	8,374
	448+00	44800	50	205.78	0.00	0	0.00	0.00	583	0	2	0	0	9,318	363	0	0	0	0	8,955
	448+50	44850	50	124.97	0.00	0	0.00	0.00	307	0	0	0	0	9,625	363	0	0	0	0	9,262
	449+00	44900	50	420.50	0.00	0	0.00	0.00	505	0	0	0	0	10,130	363	0	0	0	0	9,767
	449+50	44950	50	484.82	0.00	0	0.00	0.00	838	0	0	0	0	10,968	363	0	0	0	0	10,605
	450+00	45000	50	316.35	0.00	0	0.00	0.00	742	0	0	0	0	11,710	363	0	0	0	0	11,347
	450+50	45050	50	123.21	0.00	2.79	0.00	0.00	407	0	3	0	0	12,117	366	0	0	0	0	11,751
	451+00	45100	50	91.15	0.00	22.16	0.00	0.00	198	0	23	0	0	12,316	395	0	0	0	0	11,920
	451+50	45150	50	33.49	0.00	117.94	0.00	0.00	115	0	130	0	0	12,431	557	0	0	0	0	11,874
	452+00	45200	50	0.05	0.00	240.76	0.00	0.00	31	0	332	0	0	12,462	972	0	0	0	0	11,490
	452+50	45250	50	0.00	0.00	337.82	0.00	0.00	0	0	536	0	0	12,462	1,642	0	0	0	0	10,820
	453+00	45300	50	0.00	0.00	398.94	0.00	0.00	0	0	682	0	0	12,462	2,495	0	0	0	0	9,967
	453+50	45350	50	0.00	0.00	377.39	0.00	0.00	0	0	719	0	0	12,462	3,393	0	0	0	0	9,069
	454+00	45400	50	0.00	0.00	358.54	0.00	0.00	0	0	681	0	0	12,462	4,245	0	0	0	0	8,217
	454+50	45450	50	0.00	0.00	326.36	0.00	131.20	0	0	634	0	121	12,462	4,916	0	158	0	97	7,546
	455+00	45500	50	0.00	0.00	0	0.00	165.90	0	0	302	0	275	12,462	5,019	0	516	0	317	7,443
	455+50	45550	50	0.00	0.00	0	0.00	172.60	0	0	0	0	313	12,462	4,706	0	923	0	568	7,757
	456+00	45600	50	0.00	0.00	0	0.00	184.10	0	0	0	0	330	12,462	4,375	0	1,352	0	832	8,087
	456+35	45635	35	0.41	0.00	0	0.00	177.10	0	0	0	0	234	12,462	4,141	0	1,657	0	1,020	8,321
	457+00	45700	65	0.00	0.00	0	0.00	162.80	0	0	0	0	409	12,463	3,732	0	2,189	0	1,347	8,731
	457+50	45750	50	0.00	0.00	0	0.00	160.90	0	0	0	0	300	12,463	3,432	0	2,578	0	1,587	9,031
	458+00	45800	50	0.00	0.00	0	0.00	175.90	0	0	0	0	312	12,463	3,121	0	2,984	0	1,836	9,342
	458+50	45850	50	0.00	0.00	0	0.00	70.60	0	0	0	0	228	12,463	2,892	0	3,280	0	2,019	9,571
	459+00	45900	50	0.00	0.00	0	0.00	37.80	0	0	0	0	100	12,463	2,792	0	3,411	0	2,099	9,671
	459+50	45950	50	0.00	0.00	0	0.00	33.20	0	0	0	0	66	12,463	2,726	0	3,496	0	2,152	9,737
	460+00	46000	50	1.19	0.00	0	0.00	0.00	1	0	0	0	31	12,464	2,695	0	3,536	0	2,176	9,769

CONTINUED ON NEXT PAGE

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080 01 76
MAAHIC WAY

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			1.00 NOTE 1	1.25	1.50 NOTE 4	1.30 NOTE 5	0.60 NOTE 6	0.80 NOTE 7	NOTE 8
0010	460+50	46050	50	10.62	0.00	69.51	0.00	0.00	11	0	64	0	0	12,475	2,776	0	3,536	0	2,176	9,699
	461+00	46100	50	19.00	0.00	23.2	0.00	0.00	27	0	86	0	0	12,502	2,883	0	3,536	0	2,176	9,619
	461+50	46150	50	34.09	0.00	6.42	0.00	0.00	49	0	27	0	0	12,552	2,917	0	3,536	0	2,176	9,634
	462+00	46200	50	76.78	0.00	0.00	0.00	0.00	102	0	6	0	0	12,654	2,925	0	3,536	0	2,176	9,729
	462+50	46250	50	95.14	0.00	0.00	0.00	0.00	159	0	0	0	0	12,812	2,925	0	3,536	0	2,176	9,888
	463+00	46300	50	171.37	0.00	0.00	0.00	0.00	247	0	0	0	0	13,059	2,925	0	3,536	0	2,176	10,134
	463+70	46370	70	387.12	0.00	0.00	0.00	0.00	724	0	0	0	0	13,783	2,925	0	3,536	0	2,176	10,858
	464+00	46400	30	488.31	0.00	0.00	0.00	0.00	486	0	0	0	0	14,270	2,925	0	3,536	0	2,176	11,345
	464+50	46450	50	550.86	0.00	0.00	0.00	0.00	962	0	0	0	0	15,232	2,925	0	3,536	0	2,176	12,307
	465+00	46500	50	603.47	0.00	0.00	0.00	0.00	1069	0	0	0	0	16,301	2,925	0	3,536	0	2,176	13,376
	465+50	46550	50	735.24	0.00	0.00	0.00	0.00	1240	0	0	0	0	17,540	2,925	0	3,536	0	2,176	14,615
	466+00	46600	50	862.76	0.00	0.00	0.00	0.00	1480	0	0	0	0	19,020	2,925	0	3,536	0	2,176	16,095
	466+50	46650	50	904.21	0.00	0.00	0.00	0.00	1636	0	0	0	0	20,656	2,925	0	3,536	0	2,176	17,731
	467+00	46700	50	980.70	0.00	0.00	0.00	0.00	1745	0	0	0	0	22,401	2,925	0	3,536	0	2,176	19,476
	467+50	46750	50	1012.19	0.00	0.00	0.00	0.00	1845	0	0	0	0	24,246	2,925	0	3,536	0	2,176	21,322
	468+00	46800	50	965.97	0.00	0.00	0.00	0.00	1832	0	0	0	0	26,078	2,925	0	3,536	0	2,176	23,153
	468+50	46850	50	875.73	0.00	0.00	0.00	0.00	1709	0	0	0	0	27,783	2,925	0	3,536	0	2,176	24,858
	469+00	46900	50	822.11	0.00	0.00	0.00	0.00	1572	0	0	0	0	29,355	2,925	0	3,536	0	2,176	26,430
	469+50	46950	50	722.81	0.00	2.86	0.00	0.00	1430	0	3	0	0	30,786	2,928	0	3,536	0	2,176	27,858
	470+00	47000	50	431.34	0.00	14.86	0.00	0.00	1069	0	16	0	0	31,855	2,949	0	3,536	0	2,176	28,906
	470+50	47050	50	221.17	0.00	21.45	0.00	0.00	604	0	34	0	0	32,459	2,991	0	3,536	0	2,176	29,468
	471+00	47100	50	87.89	0.00	56.29	0.00	0.00	286	0	72	0	0	32,745	3,081	0	3,536	0	2,176	29,664
	471+40	47140	40	69.68	0.00	109.36	0.00	0.00	117	0	123	0	0	32,862	3,234	0	3,536	0	2,176	29,627
	472+00	47200	60	47.73	0.00	125.62	0.00	0.00	130	0	261	0	0	32,992	3,560	0	3,536	0	2,176	29,432
	472+50	47250	50	63.03	0.00	100.88	0.00	0.00	103	0	210	0	0	33,095	3,823	0	3,536	0	2,176	29,272
	473+00	47300	50	57.87	0.00	83.50	0.00	0.00	112	0	171	0	0	33,207	4,036	0	3,536	0	2,176	29,171
	473+50	47350	50	78.98	0.00	96.05	0.00	0.00	80	0	166	0	0	33,287	4,244	0	3,536	0	2,176	29,043
	474+00	47400	50	17.25	0.00	90.28	0.00	0.00	43	0	173	0	0	33,330	4,459	0	3,536	0	2,176	28,870
	474+50	47450	50	0.00	0.00	87.94	0.00	0.00	16	0	165	0	0	33,346	4,666	0	3,536	0	2,176	28,680
	475+00	47500	50	0.00	0.00	68.26	0.00	0.00	0	0	145	0	0	33,346	4,846	0	3,536	0	2,176	28,499
	475+50	47550	50	0.00	0.00	60.30	0.00	0.00	0	0	119	0	0	33,346	4,995	0	3,536	0	2,176	28,350
	476+00	47600	50	0.00	0.00	50.72	0.00	0.00	0	0	103	0	0	33,346	5,124	0	3,536	0	2,176	28,222
	476+50	47650	50	0.00	0.00	47.18	0.00	0.00	0	0	91	0	0	33,346	5,237	0	3,536	0	2,176	28,109
	477+00	47700	50	0.00	0.00	67.29	0.00	0.00	0	0	106	0	0	33,346	5,370	0	3,536	0	2,176	27,976
	477+50	47750	50	0.00	0.00	85.84	0.00	0.00	0	0	142	0	0	33,346	5,547	0	3,536	0	2,176	27,799
	478+00	47800	50	0.00	0.00	100.30	0.00	0.00	0	0	172	0	0	33,346	5,762	0	3,536	0	2,176	27,583
	478+50	47850	50	0.00	0.00	135.09	0.00	0.00	0	0	218	0	0	33,346	6,035	0	3,536	0	2,176	27,311
	479+00	47900	50	0.00	0.00	166.93	0.00	0.00	0	0	280	0	0	33,346	6,384	0	3,536	0	2,176	26,961
	479+50	47950	50	0.00	0.00	184.79	0.00	0.00	0	0	326	0	0	33,346	6,791	0	3,536	0	2,176	26,554
	480+00	48000	50	0.00	0.00	215.61	0.00	29.50	0	0	371	0	27	33,346	7,227	0	3,572	0	2,198	26,118
	480+50	48050	50	0.00	0.00	211.07	0.00	32.30	0	0	395	0	57	33,346	7,664	0	3,646	0	2,244	25,682
	481+00	48100	50	0.00	0.00	215.83	0.00	29.60	0	0	395	0	57	33,346	8,101	0	3,721	0	2,290	25,245
	481+50	48150	50	0.00	0.00	233.99	0.00	27.00	0	0	417	0	52	33,346	8,569	0	3,789	0	2,332	24,777
	482+00	48200	50	0.00	0.00	273.35	0.00	25.70	0	0	470	0	49	33,346	9,108	0	3,852	0	2,371	24,238
	482+09	48209	9	0.00	0.00	268.72	0.00	25.80	0	0	90	0	9	33,346	9,212	0	3,863	0	2,377	24,134
	482+50	48250	41	0.00	0.00	232.81	0.00	28.10	0	0	381	0	41	33,346	9,647	0	3,917	0	2,410	23,699
	483+00	48300	50	0.00	0.00	242.39	0.00	31.70	0	0	440	0	55	33,346	10,142	0	3,989	0	2,455	23,204
	483+50	48350	50	0.00	0.00	237.02	0.00	38.90	0	0	444	0	65	33,346	10,632	0	4,074	0	2,507	22,714
	484+00	48400	50	0.00	0.00	193.75	0.00	51.80	0	0	399	0	84	33,346	11,046	0	4,183	0	2,574	22,299
	484+50	48450	50	0.00	0.00	201.89	0.00	40.10	0	0	366	0	85	33,346	11,419	0	4,293	0	2,642	21,927
	485+00	48500	50	0.00	0.00	277.63	0.00	41.90	0	0	444	0	76	33,346	11,898	0	4,392	0	2,703	21,447
	485+50	48550	50	0.00	0.00	177.94	0.00	0.00	0	0	422	0	39	33,346	12,387	0	4,442	0	2,734	20,959
	486+00	48600	50	173.68	0.00	9.28	0.00	0.00	161	0	173	0	0	33,507	12,603	0	4,442	0	2,734	20,903
	486+21	48621	21	334.30	0.00	0.00	0.00	0.00	198	0	4	0	0	33,704	12,608	0	4,442	0	2,734	21,096
						SUBTOTALS CATEGORY 0010			33704	0	12820	0	3617							

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIA.	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - (FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-75
MAAHIC WAY TO NORTH CTH AB (ALI-LD)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
													1.00	1.25	
										NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
0010	3A	486+21	48621.00	0.00	334.30	0.00	0.00	0.00	0.00	0	0	0	0	0	0
		486+27	48627.00	6.00	246.14	0.00	6.46	0.00	0.00	64	0	1	64	1	63
									STAGE 3A SUBTOTALS TOTAL 0010	64	0	1			

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

9

9

PROJECT ID 3080-01-76
LUDS LANE (ALI-LUDS LANE)

CATEGORY	STAGE	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
					CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
										NOTE 1	NOTE 2	NOTE 3			1.00 NOTE 1	1.25	1.50 NOTE 4	1.30 NOTE 5	0.60 NOTE 6	0.80 NOTE 7	NOTE 8
0010	1	528+65	52865.00	0.00	17.97	0.00	16.63	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
		529+00	52900.00	35.00	6.24	0.00	116.84	0.00	0.00	16	0	87	0	0	16	109	0	0	0	0	-93
		529+50	52950.00	50.00	1.10	0.00	143.05	0.00	0.00	7	0	241	0	0	23	410	0	0	0	0	-387
		530+00	53000.00	50.00	3.79	0.00	117.10	0.00	0.00	5	0	241	0	0	28	711	0	0	0	0	-683
		530+50	53050.00	50.00	0.00	0.00	93.41	0.00	0.00	4	0	195	0	0	32	955	0	0	0	0	-923
		531+00	53100.00	50.00	0.00	0.00	94.68	0.00	0.00	0	0	174	0	0	32	1,173	0	0	0	0	-1,141
		531+50	53150.00	50.00	0.00	0.00	81.52	0.00	0.00	0	0	163	0	0	32	1,376	0	0	0	0	-1,344
		532+00	53200.00	50.00	0.00	0.00	65.78	0.00	0.00	0	0	136	0	0	32	1,546	0	0	0	0	-1,514
		532+50	53250.00	50.00	0.00	0.00	41.90	0.00	0.00	0	0	100	0	0	32	1,671	0	0	0	0	-1,639
		533+00	53300.00	50.00	0.00	0.00	15.20	0.00	0.00	0	0	53	0	0	32	1,738	0	0	0	0	-1,706
		533+50	53350.00	50.00	0.00	0.00	25.39	0.00	0.00	0	0	38	0	0	32	1,785	0	0	0	0	-1,753
		534+00	53400.00	50.00	0.00	0.00	91.94	0.00	0.00	0	0	109	0	0	32	1,921	0	0	0	0	-1,889
		534+25	53425.00	25.00	5.22	0.00	93.77	0.00	0.00	2	0	86	0	0	34	2,029	0	0	0	0	-1,995
		534+50.1	53450.10	25.10	0.22	0.00	90.30	0.00	0.00	3	0	86	0	0	37	2,136	0	0	0	0	-2,099
		534+65	53465.00	14.90	0.00	0.00	92.06	0.00	0.00	0	0	50	0	0	37	2,199	0	0	0	0	-2,162
		534+85	53485.00	20.00	0.00	0.00	73.99	0.00	0.00	0	0	62	0	0	37	2,276	0	0	0	0	-2,239
		535+00	53500.00	15.00	0.00	0.00	52.71	0.00	0.00	0	0	35	0	0	37	2,320	0	0	0	0	-2,283
		535+50	53550.00	50.00	18.77	0.00	5.42	0.00	0.00	17	0	54	0	0	54	2,388	0	0	0	0	-2,334
		536+00	53600.00	50.00	46.51	0.00	0.05	0.00	0.00	60	0	5	0	0	114	2,394	0	0	0	0	-2,280
							STAGE 1 SUBTOTALS TOTAL 0010			114	0	1915	0	0							

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: (CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
GOLF MAINTENANCE RD 'MRW'

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT 1.00	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50	EXPANDED EBS BACKFILL 1.30	REDUCED MARSH IN FILL 0.60	REDUCED EBS IN FILL 0.80	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			NOTE 1		NOTE 4	NOTE 5	NOTE 6	NOTE 7	NOTE 8
0020	58+83 AH	5883	0	11.36	0.00	3.41	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	59+00	5900	17	11.38	0.00	0	0.00	0.00	7	0	1	0	0	7	1	0	0	0	0	6
	59+50	5950	50	9.41	0.00	76.32	0.00	0.00	19	0	71	0	0	27	90	0	0	0	0	-63
	60+00	6000	50	14.20	0.00	83.72	0.00	0.00	22	0	148	0	0	48	275	0	0	0	0	-226
	60+50	6050	50	4.79	0.00	101.7	0.00	0.00	18	0	172	0	0	66	490	0	0	0	0	-424
	61+00	6100	50	4.72	0.00	107.25	0.00	0.00	9	0	193	0	0	75	731	0	0	0	0	-657
	61+50	6150	50	5.24	0.00	112	0.00	0.00	9	0	203	0	0	84	985	0	0	0	0	-901
	62+00	6200	50	12.44	0.00	95.5	0.00	0.00	16	0	192	0	0	100	1,225	0	0	0	0	-1,125
	62+50	6250	50	8.28	0.00	63.13	0.00	0.00	19	0	147	0	0	120	1,409	0	0	0	0	-1,289
	63+00	6300	50	4.08	0.00	60.4	0.00	0.00	11	0	114	0	0	131	1,552	0	0	0	0	-1,421
	63+50	6350	50	21.24	0.00	52.24	0.00	0.00	23	0	104	0	0	155	1,682	0	0	0	0	-1,528
	63+62 BK	6362	12	19.28	0.00	0	0.00	0.00	9	0	12	0	0	164	1,697	0	0	0	0	-1,533
						SUBTOTALS CATEGORY 0020			164	0	1358	0	0							

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: '(CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)'	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: '(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)'	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: '(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)'	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
GOLF MAINTENANCE RD 'MRE'

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED MARSH IN FILL 0.60 NOTE 6	REDUCED EBS IN FILL 0.80 NOTE 7	MASS ORDINATE NOTE 8
0020	369+70 AH	36970	0	8.44	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	370+00	37000	30	9.76	0.00	0.00	0.00	0.00	10	0	0	0	0	10	0	0	0	0	0	10
	370+50	37050	50	19.24	0.00	0.00	0.00	0.00	27	0	0	0	0	37	0	0	0	0	0	37
	371+00	37100	50	31.97	0.00	0.00	0.00	0.00	47	0	0	0	0	84	0	0	0	0	0	84
	371+50	37150	50	36.56	0.00	0.00	0.00	0.00	63	0	0	0	0	148	0	0	0	0	0	148
	372+00	37200	50	29.42	0.00	0.00	0.00	0.00	61	0	0	0	0	209	0	0	0	0	0	209
	372+50	37250	50	21.31	0.00	0.00	0.00	0.00	47	0	0	0	0	256	0	0	0	0	0	256
	373+00	37300	50	17.32	0.00	0.00	0.00	0.00	36	0	0	0	0	292	0	0	0	0	0	292
	373+50	37350	50	9.80	0.00	0.06	0.00	0.00	25	0	0	0	0	317	0	0	0	0	0	317
	374+00	37400	50	4.58	0.00	0.78	0.00	0.00	13	0	1	0	0	330	1	0	0	0	0	329
	374+50	37450	50	2.46	0.00	2.45	0.00	0.00	7	0	3	0	0	337	5	0	0	0	0	332
	375+00	37500	50	7.65	0.00	0.62	0.00	0.00	9	0	3	0	0	346	8	0	0	0	0	338
	375+50	37550	50	13.30	0.00	32.15	0.00	0.00	19	0	30	0	0	365	46	0	0	0	0	319
	376+00	37600	50	12.79	0.00	18.05	0.00	0.00	24	0	46	0	0	390	104	0	0	0	0	285
	376+50	37650	50	21.30	0.00	3.14	0.00	0.00	32	0	20	0	0	421	129	0	0	0	0	292
	377+00	37700	50	20.77	0.00	0.00	0.00	0.00	39	0	3	0	0	460	133	0	0	0	0	328
	377+50	37750	50	7.13	0.00	0.54	0.00	0.00	26	0	1	0	0	486	133	0	0	0	0	353
	378+00	37800	50	8.08	0.00	0.02	0.00	0.00	14	0	1	0	0	500	134	0	0	0	0	366
	378+50	37850	50	8.30	0.00	0.00	0.00	0.00	15	0	0	0	0	515	134	0	0	0	0	381
	379+00	37900	50	0.21	0.00	4.54	0.00	0.00	8	0	4	0	0	523	139	0	0	0	0	384
	379+50	37950	50	0.27	0.00	4.48	0.00	0.00	0	0	8	0	0	523	150	0	0	0	0	374
	380+00	38000	50	5.06	0.00	0.84	0.00	0.00	5	0	5	0	0	528	156	0	0	0	0	373
	380+50	38050	50	8.71	0.00	0.02	0.00	0.00	13	0	1	0	0	541	157	0	0	0	0	384
	381+00	38100	50	10.60	0.00	0.00	0.00	0.00	18	0	0	0	0	559	157	0	0	0	0	402
	381+50	38150	50	7.66	0.00	0.03	0.00	0.00	17	0	0	0	0	576	157	0	0	0	0	419
	382+00	38200	50	8.31	0.00	0.09	0.00	0.00	15	0	0	0	0	591	157	0	0	0	0	434
	382+50	38250	50	8.68	0.00	0.19	0.00	0.00	16	0	0	0	0	606	157	0	0	0	0	449
	383+00	38300	50	7.58	0.00	0.72	0.00	0.00	15	0	1	0	0	622	158	0	0	0	0	463
	383+50	38350	50	7.98	0.00	0.72	0.00	0.00	14	0	1	0	0	636	160	0	0	0	0	476
	384+00	38400	50	8.03	0.00	0.59	0.00	0.00	15	0	1	0	0	651	161	0	0	0	0	489
	384+50	38450	50	8.47	0.00	0.08	0.00	0.00	15	0	1	0	0	666	162	0	0	0	0	504
	385+00	38500	50	8.09	0.00	0.00	0.00	0.00	15	0	0	0	0	681	162	0	0	0	0	519
	385+10 BK	38510	10	7.97	0.00	0.04	0.00	0.00	3	0	0	0	0	684	162	0	0	0	0	522
				SUBTOTALS CATEGORY 0020					684	0	130	0	0							

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIA.	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - (FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
MILLPOND TEMPORARY ROADWAY 'M1B'

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50 NOTE 4	EXPANDED EBS BACKFILL 1.30 NOTE 5	REDUCED MARSH IN FILL 0.60 NOTE 6	REDUCED EBS IN FILL 0.80 NOTE 7	MASS ORDINATE NOTE 8
0020	327+00 A↵	32700	0	24.68	0.00	0	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	327+25	32725	25	16.38	0.00	0	0.00	0.00	19	0	0	0	0	19	0	0	0	0	0	19
	327+50	32750	25	13.72	0.00	0	0.00	0.00	14	0	0	0	0	33	0	0	0	0	0	33
	327+75	32775	25	15.74	0.00	0	0.00	0.00	14	0	0	0	0	47	0	0	0	0	0	47
	328+00	32800	25	24.12	0.00	0	0.00	0.00	18	0	0	0	0	65	0	0	0	0	0	65
	328+25	32825	25	16.12	0.00	0	0.00	0.00	19	0	0	0	0	84	0	0	0	0	0	84
	328+50	32850	25	19.57	0.00	0	0.00	0.00	17	0	0	0	0	100	0	0	0	0	0	100
	328+75	32875	25	10.91	0.00	0.04	0.00	0.00	14	0	0	0	0	114	0	0	0	0	0	114
	329+00	32900	25	28.79	0.00	0.75	0.00	0.00	18	0	0	0	0	133	0	0	0	0	0	132
	329+25	32925	25	36.10	0.00	0	0.00	0.00	30	0	0	0	0	163	1	0	0	0	0	162
	329+50	32950	25	67.16	0.00	0	0.00	0.00	48	0	0	0	0	211	1	0	0	0	0	210
	329+75	32975	25	81.33	0.00	0	0.00	0.00	69	0	0	0	0	279	1	0	0	0	0	278
	330+00	33000	25	94.70	0.00	3.84	0.00	0.00	81	0	2	0	0	361	3	0	0	0	0	358
	330+25	33025	25	52.42	0.00	20.65	0.00	0.00	68	0	11	0	0	429	17	0	0	0	0	412
	330+50	33050	25	50.94	0.00	28.91	0.00	0.00	48	0	23	0	0	477	46	0	0	0	0	431
	330+75	33075	25	119.94	0.00	0	0.00	0.00	79	0	13	0	0	556	63	0	0	0	0	493
	331+00	33100	25	76.07	0.00	11.63	0.00	0.00	91	0	5	0	0	647	69	0	0	0	0	577
	331+25	33125	25	108.51	0.00	8.88	0.00	0.00	85	0	9	0	0	732	81	0	0	0	0	651
	331+50	33150	25	113.26	0.00	8.67	0.00	0.00	103	0	8	0	0	835	91	0	0	0	0	743
	331+75	33175	25	97.49	0.00	5.44	0.00	0.00	98	0	7	0	0	932	100	0	0	0	0	833
	332+00	33200	25	72.39	0.00	5.72	0.00	0.00	79	0	5	0	0	1,011	106	0	0	0	0	905
	332+25	33225	25	52.06	0.00	6.53	0.00	0.00	78	0	9	0	0	438	15	0	0	0	0	474
	332+50	33250	25	40.68	0.00	8.66	0.00	0.00	43	0	7	0	0	481	24	0	0	0	0	458
	332+75	33275	25	36.40	0.00	13.27	0.00	0.00	36	0	10	0	0	517	36	0	0	0	0	481
	333+00	33300	25	32.43	0.00	13.57	0.00	0.00	32	0	12	0	0	549	52	0	0	0	0	497
	333+25	33325	25	35.94	0.00	13.14	0.00	0.00	32	0	12	0	0	580	67	0	0	0	0	513
	333+50	33350	25	36.40	0.00	15.25	0.00	0.00	33	0	13	0	0	614	84	0	0	0	0	530
	333+75	33375	25	32.27	0.00	18.18	0.00	0.00	32	0	15	0	0	646	103	0	0	0	0	543
	334+00	33400	25	31.54	0.00	23.59	0.00	0.00	30	0	19	0	0	675	127	0	0	0	0	548
	334+25	33425	25	25.99	0.00	28.61	0.00	0.00	27	0	24	0	0	702	157	0	0	0	0	545
	334+50	33450	25	17.47	0.00	30.77	0.00	0.00	20	0	27	0	0	722	192	0	0	0	0	530
	334+75	33475	25	15.10	0.00	32.07	0.00	0.00	15	0	29	0	0	737	228	0	0	0	0	509
	335+00	33500	25	14.68	0.00	31.7	0.00	0.00	14	0	30	0	0	751	265	0	0	0	0	486
	335+10	33510	10	14.61	0.00	28.78	0.00	0.00	5	0	11	0	0	756	279	0	0	0	0	477
	335+25 BK	33525	15	13.75	0.00	26.27	0.00	0.00	8	0	15	0	0	764	298	0	0	0	0	466
		SUBTOTALS CATEGORY 0020							1414	0	321	0	0							

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIA.	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
MILLPOND TEMPORARY ROADWAY 'M1B'

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			1.00 NOTE 1	1.25	1.50 NOTE 4	1.30 NOTE 5	0.60 NOTE 6	0.80 NOTE 7	NOTE 8
0020	335+50 AH	33550	0	10.13	0.00	20.35	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	335+75	33575	25	5.35	0.00	15.21	0.00	0.00	7	0	16	0	0	7	21	0	0	0	0	-13
	336+00	33600	25	0.73	0.00	24.43	0.00	0.00	3	0	18	0	0	10	44	0	0	0	0	-34
	336+25	33625	25	0.21	0.00	36.14	0.00	0.00	0	0	28	0	0	10	79	0	0	0	0	-68
	336+50	33650	25	0.28	0.00	51.65	0.00	0.00	0	0	41	0	0	11	129	0	0	0	0	-119
	336+75	33675	25	0.32	0.00	58.07	0.00	0.00	0	0	51	0	0	11	193	0	0	0	0	-182
	337+00	33700	25	0.42	0.00	60.98	0.00	0.00	0	0	55	0	0	11	262	0	0	0	0	-251
	337+25	33725	25	0.27	0.00	67.41	0.00	0.00	0	0	59	0	0	12	336	0	0	0	0	-324
	337+50	33750	25	0.22	0.00	65.26	0.00	0.00	0	0	61	0	0	12	413	0	0	0	0	-401
	337+75	33775	25	0.17	0.00	62.73	0.00	0.00	0	0	59	0	0	12	487	0	0	0	0	-475
	337+88	33788	13	0.04	0.00	64.78	0.00	0.00	0	0	31	0	0	12	525	0	0	0	0	513
	338+00	33800	12	0.22	0.00	67.02	0.00	0.00	0	0	29	0	0	12	562	0	0	0	0	-550
	338+25	33825	25	0.45	0.00	65.09	0.00	0.00	0	0	61	0	0	12	638	0	0	0	0	-626
	338+50	33850	25	0.46	0.00	76.36	0.00	0.00	0	0	65	0	0	13	720	0	0	0	0	-707
	338+75	33875	25	0.32	0.00	86.39	0.00	0.00	0	0	75	0	0	13	814	0	0	0	0	-801
	339+00	33900	25	0.35	0.00	84.71	0.00	0.00	0	0	79	0	0	14	913	0	0	0	0	900
	339+25	33925	25	0.92	0.00	81.73	0.00	0.00	1	0	77	0	0	14	1,010	0	0	0	0	-996
	339+50	33950	25	0.60	0.00	86.07	0.00	0.00	1	0	78	0	0	15	1,107	0	0	0	0	-1,092
	339+75	33975	25	0.15	0.00	73.05	0.00	0.00	0	0	74	0	0	15	1,199	0	0	0	0	-1,184
	340+00	34000	25	0.06	0.00	52.64	0.00	0.00	0	0	58	0	0	15	1,272	0	0	0	0	-1,256
	340+25	34025	25	0.09	0.00	39.35	0.00	0.00	0	0	43	0	0	15	1,325	0	0	0	0	-1,310
	340+50	34050	25	2.88	0.00	28.49	0.00	0.00	1	0	31	0	0	17	1,364	0	0	0	0	-1,347
	340+75	34075	25	16.00	0.00	15.29	0.00	0.00	9	0	20	0	0	25	1,389	0	0	0	0	-1,364
	341+00	34100	25	25.27	0.00	7.31	0.00	0.00	19	0	10	0	0	45	1,403	0	0	0	0	-1,358
	341+25	34125	25	59.39	0.00	2.05	0.00	0.00	39	0	4	0	0	84	1,408	0	0	0	0	-1,324
	341+50	34150	25	145.72	0.00	0.22	0.00	0.00	95	0	1	0	0	179	1,409	0	0	0	0	-1,231
	341+75	34175	25	230.07	0.00	0.95	0.00	0.00	174	0	1	0	0	353	1,410	0	0	0	0	-1,057
	342+00	34200	25	269.59	0.00	3.34	0.00	0.00	231	0	2	0	0	584	1,412	0	0	0	0	-828
	342+25	34225	25	205.72	0.00	5.51	0.00	0.00	220	0	4	0	0	804	1,418	0	0	0	0	-614
	342+50	34250	25	127.94	0.00	4.21	0.00	0.00	154	0	5	0	0	958	1,423	0	0	0	0	-465
	342+75	34275	25	80.31	0.00	1.59	0.00	0.00	96	0	3	0	0	1,055	1,427	0	0	0	0	-372
	343+00	34300	25	36.21	0.00	0.52	0.00	0.00	54	0	1	0	0	1,109	1,428	0	0	0	0	319
	343+10 BK	34310	10	26.24	0.00	0.52	0.00	0.00	12	0	0	0	0	1,120	1,428	0	0	0	0	-308
					SUBTOTALS CATEGORY 0020				1120	0	1142	0	0							

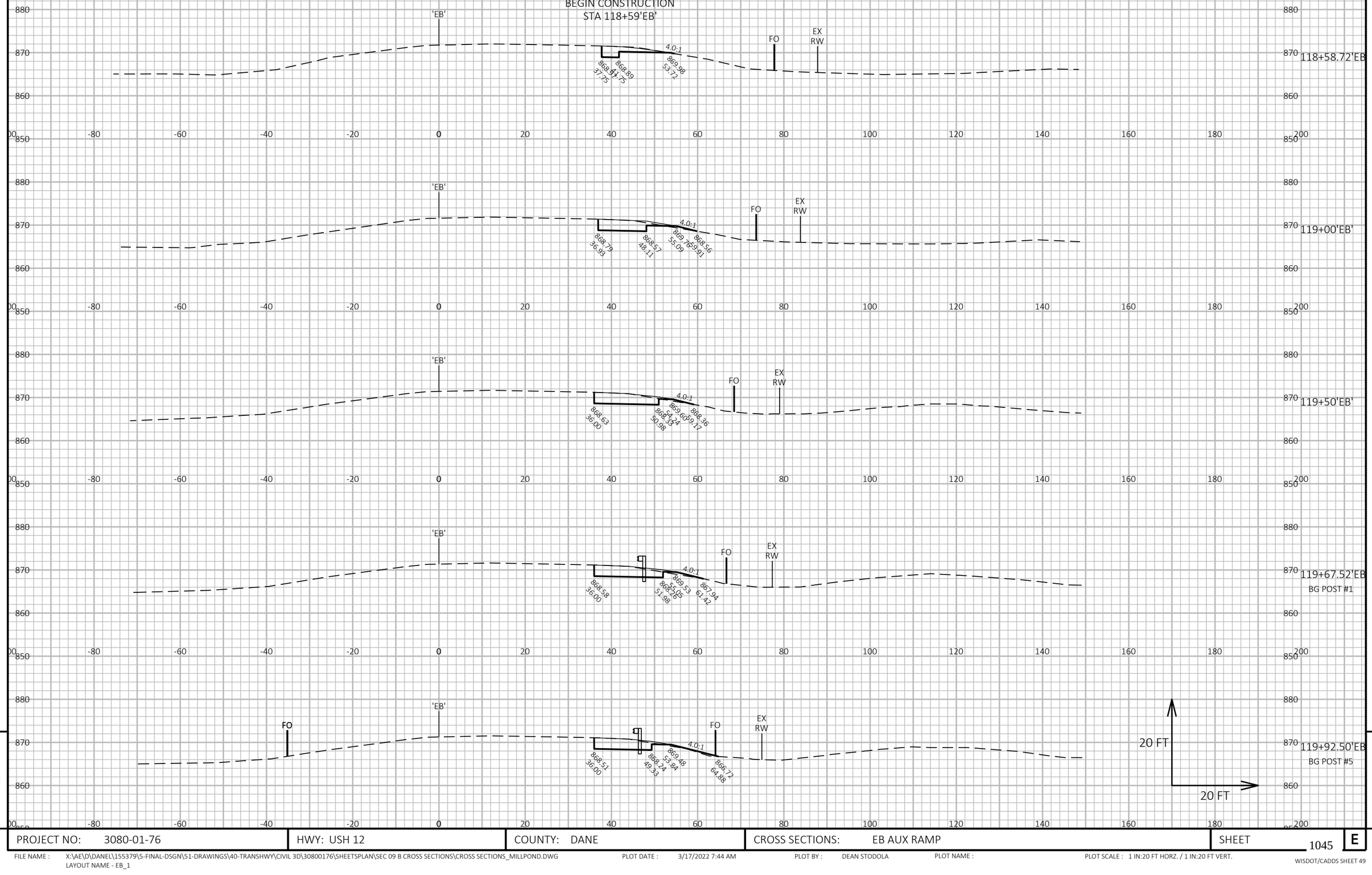
NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIA.	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

PROJECT ID 3080-01-76
MILLPOND TEMPORARY ROADWAY 'M4A'

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)						
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3			1.00 NOTE 1	1.25	1.50 NOTE 4	1.30 NOTE 5	0.60 NOTE 6	0.80 NOTE 7	NOTE 8
0020	340+00 AH	34000	0	5.87	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0
	340+10	34010	10	5.87	0.00	0.00	0.00	0.00	2	0	0	0	0	2	0	0	0	0	0	2
	340+25	34025	15	6.48	0.00	0.00	0.00	0.00	3	0	0	0	0	6	0	0	0	0	0	6
	340+50	34050	25	7.68	0.00	0.00	0.00	0.00	7	0	0	0	0	12	0	0	0	0	0	12
	340+75	34075	25	8.05	0.00	0.00	0.00	0.00	7	0	0	0	0	19	0	0	0	0	0	19
	341+00	34100	25	8.05	0.00	0.00	0.00	0.00	7	0	0	0	0	27	0	0	0	0	0	27
	341+25	34125	25	8.65	0.00	0.00	0.00	0.00	8	0	0	0	0	35	0	0	0	0	0	35
	341+50	34150	25	8.85	0.00	0.00	0.00	0.00	8	0	0	0	0	43	0	0	0	0	0	43
	341+75	34175	25	8.70	0.00	0.00	0.00	0.00	8	0	0	0	0	51	0	0	0	0	0	51
	342+00	34200	25	8.59	0.00	0.02	0.00	0.00	8	0	0	0	0	59	0	0	0	0	0	59
	342+25	34225	25	5.13	0.00	4.80	0.00	0.00	6	0	2	0	0	65	3	0	0	0	0	62
	342+50	34250	25	3.51	0.00	12.70	0.00	0.00	4	0	8	0	0	69	13	0	0	0	0	56
	342+75	34275	25	6.46	0.00	20.50	0.00	0.00	5	0	15	0	0	74	32	0	0	0	0	42
	343+00	34300	25	24.50	0.00	17.78	0.00	0.00	14	0	18	0	0	88	54	0	0	0	0	34
	343+25	34325	25	26.81	0.00	12.76	0.00	0.00	24	0	14	0	0	112	72	0	0	0	0	40
	343+50	34350	25	29.26	0.00	20.77	0.00	0.00	26	0	16	0	0	138	91	0	0	0	0	47
	343+75	34375	25	24.33	0.00	22.63	0.00	0.00	25	0	20	0	0	163	116	0	0	0	0	46
	344+00	34400	25	6.17	0.00	26.40	0.00	0.00	14	0	23	0	0	177	145	0	0	0	0	32
	344+50 BK	34450	50	6.17	0.00	26.40	0.00	0.00	11	0	49	0	0	188	206	0	0	0	0	-18
	345+40 AH	34540	0	13.70	0.00	0.35	0.00	0.00	0	0	0	0	0	188	206	0	0	0	0	-18
	345+50	34550	10	13.70	0.00	0.35	0.00	0.00	5	0	0	0	0	193	206	0	0	0	0	-13
	345+75	34575	25	0.36	0.00	62.24	0.00	0.00	7	0	29	0	0	200	242	0	0	0	0	-43
	346+00	34600	25	1.08	0.00	52.45	0.00	0.00	1	0	53	0	0	200	309	0	0	0	0	-108
	346+25	34625	25	0.16	0.00	58.78	0.00	0.00	1	0	51	0	0	201	373	0	0	0	0	-172
	346+50	34650	25	0.67	0.00	55.36	0.00	0.00	0	0	53	0	0	201	439	0	0	0	0	-238
	346+75	34675	25	0.13	0.00	55.72	0.00	0.00	0	0	51	0	0	202	503	0	0	0	0	-302
	347+00	34700	25	0.00	0.00	62.21	0.00	0.00	0	0	55	0	0	202	572	0	0	0	0	-370
	347+25	34725	25	0.00	0.00	48.02	0.00	0.00	0	0	51	0	0	202	635	0	0	0	0	-434
	347+30	34730	5	0.00	0.00	43.10	0.00	0.00	0	0	8	0	0	202	646	0	0	0	0	-444
	348+20 BK	34820	90	0.00	0.00	10.60	0.00	0.00	0	0	90	0	0	202	758	0	0	0	0	-556
			SUBTOTALS CATEGORY 0020						202	0	606	0	0							

NOTES:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIA.	
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - (FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT - SALVAGED PAVT - (FILL * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

BEGIN CONSTRUCTION
STA 118+59'EB'



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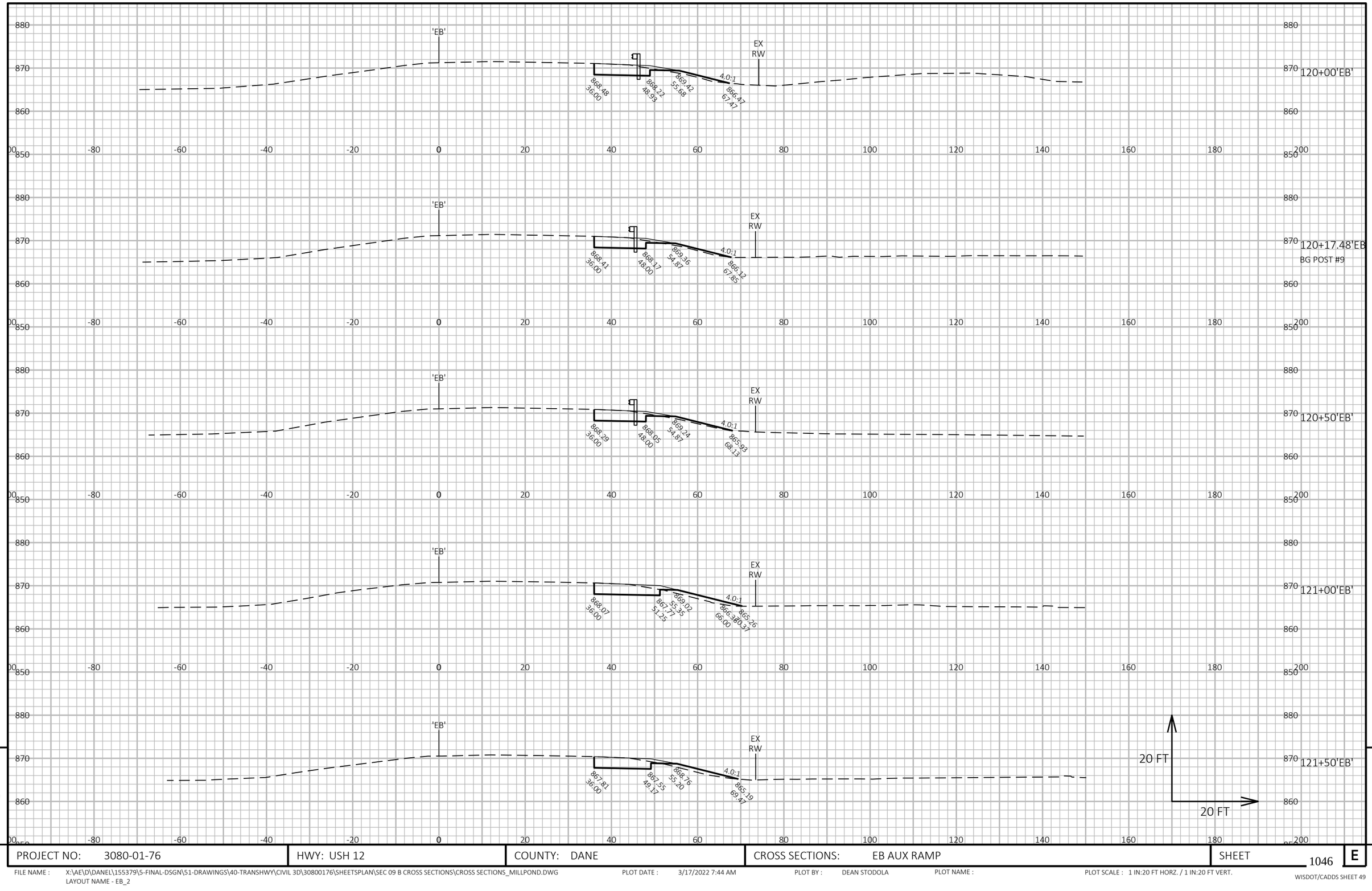
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: EB AUX RAMP	SHEET 1045	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - EB_1
PLOT DATE : 3/17/2022 7:44 AM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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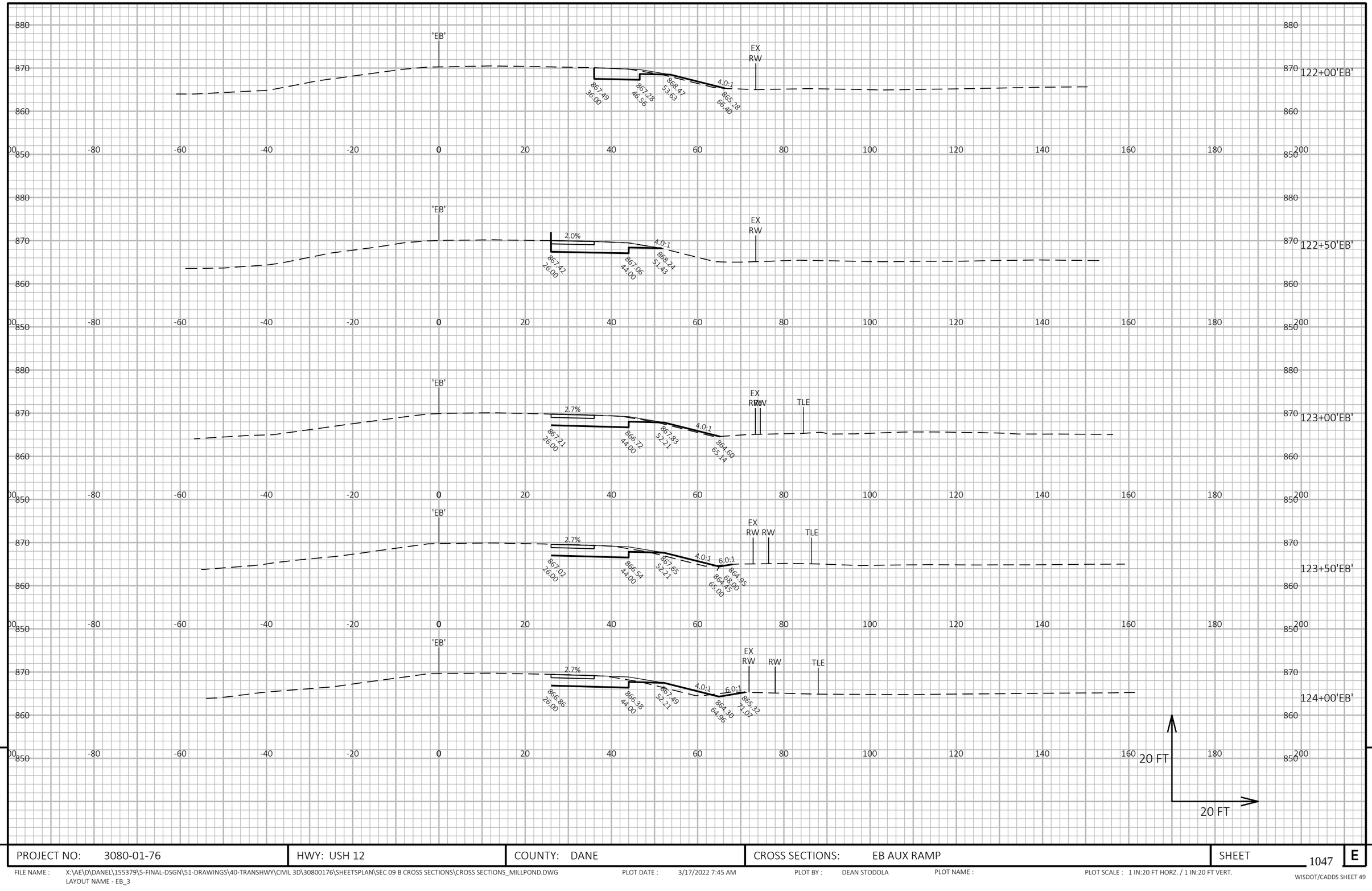
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: EB AUX RAMP	SHEET 1046	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - EB_2

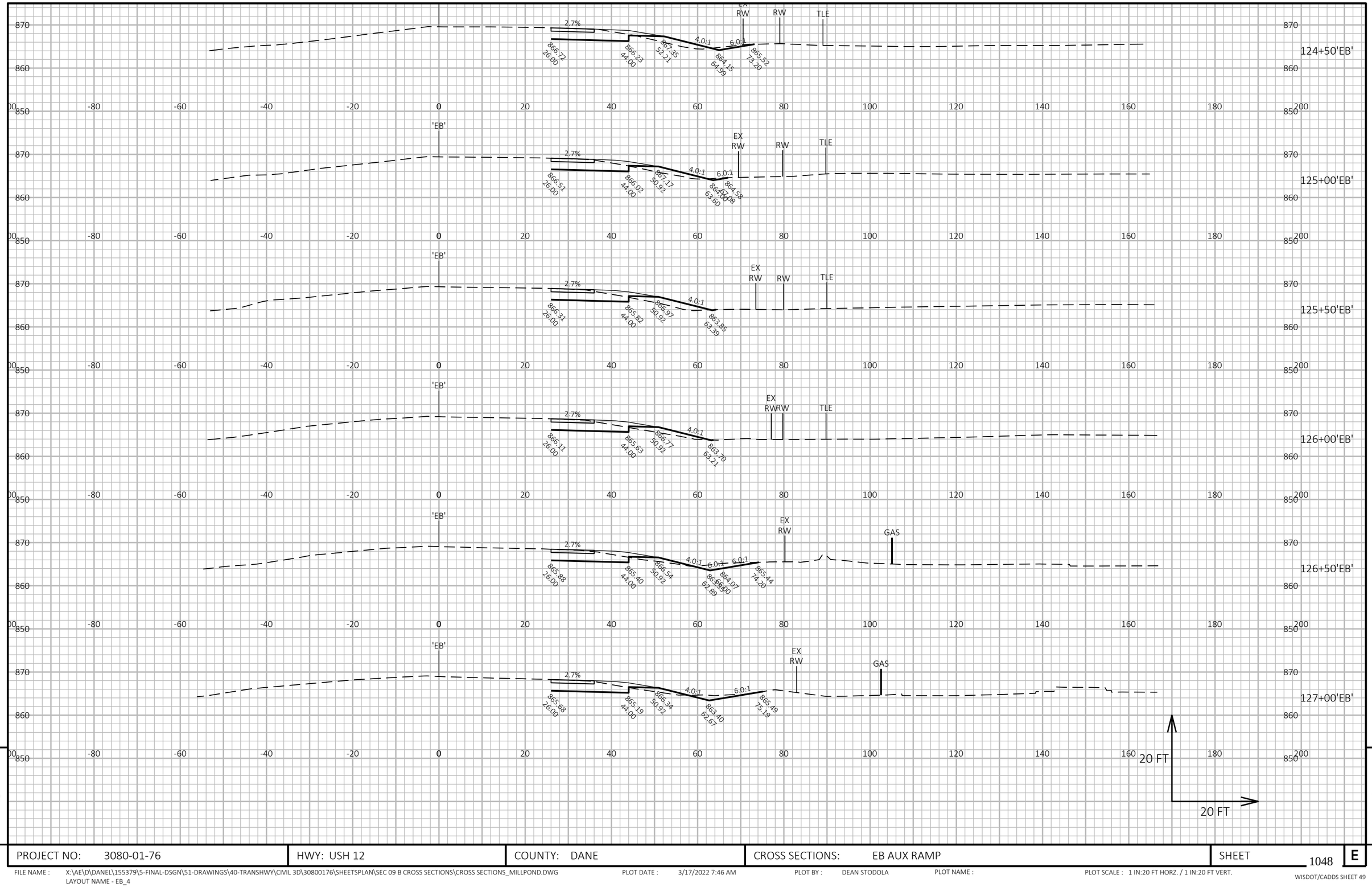
PLOT DATE : 3/17/2022 7:44 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: EB AUX RAMP	SHEET 1047 E

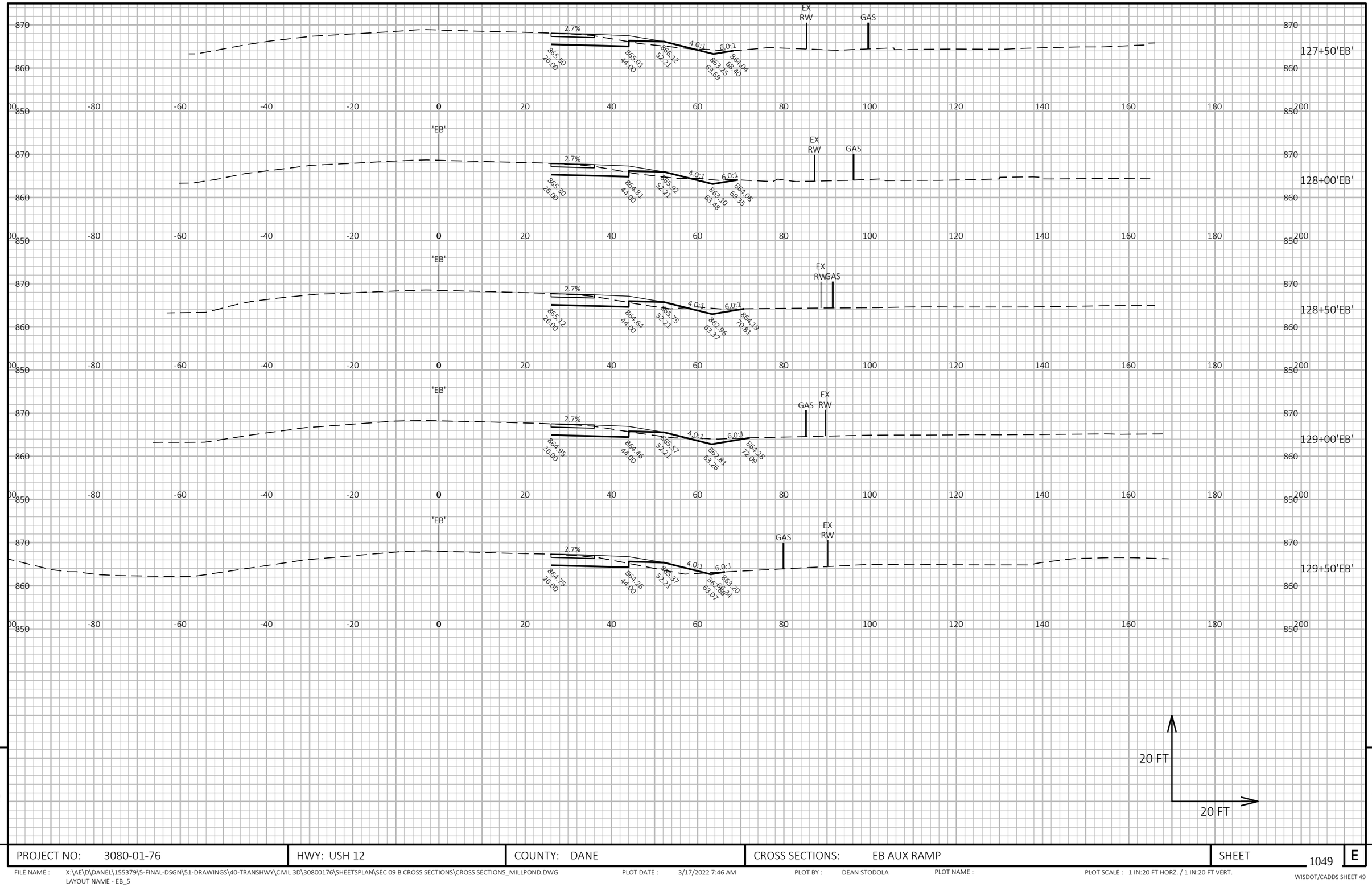
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - EB_3
PLOT DATE : 3/17/2022 7:45 AM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



9 9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: EB AUX RAMP	SHEET 1048 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - EB_4
PLOT DATE : 3/17/2022 7:46 AM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

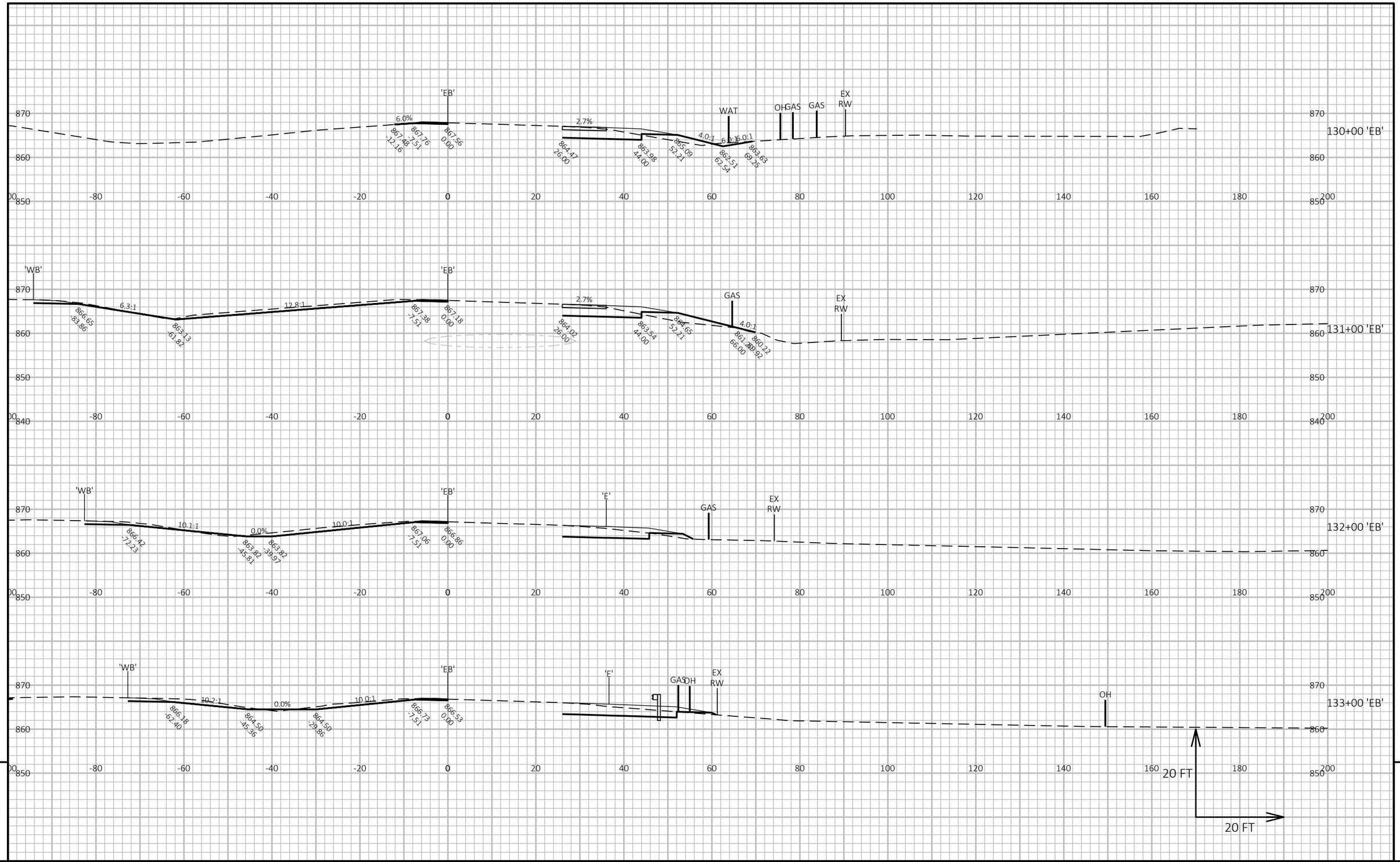


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: EB AUX RAMP	SHEET 1049	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - EB_5

PLOT DATE : 3/17/2022 7:46 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1050	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_1

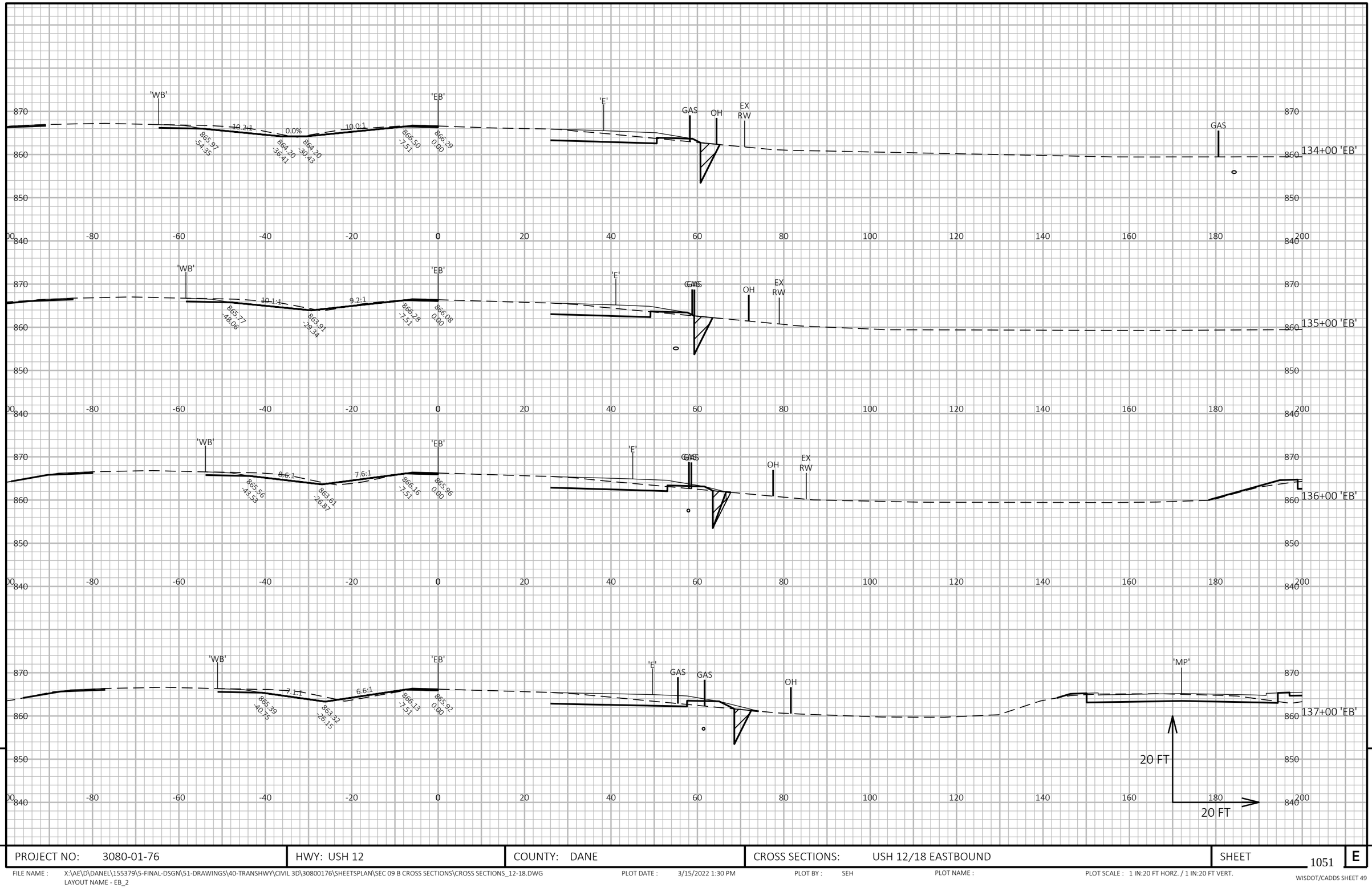
PLOT DATE : 3/15/2022 1:29 PM

PLOT BY : SEH

PLOT NAME :

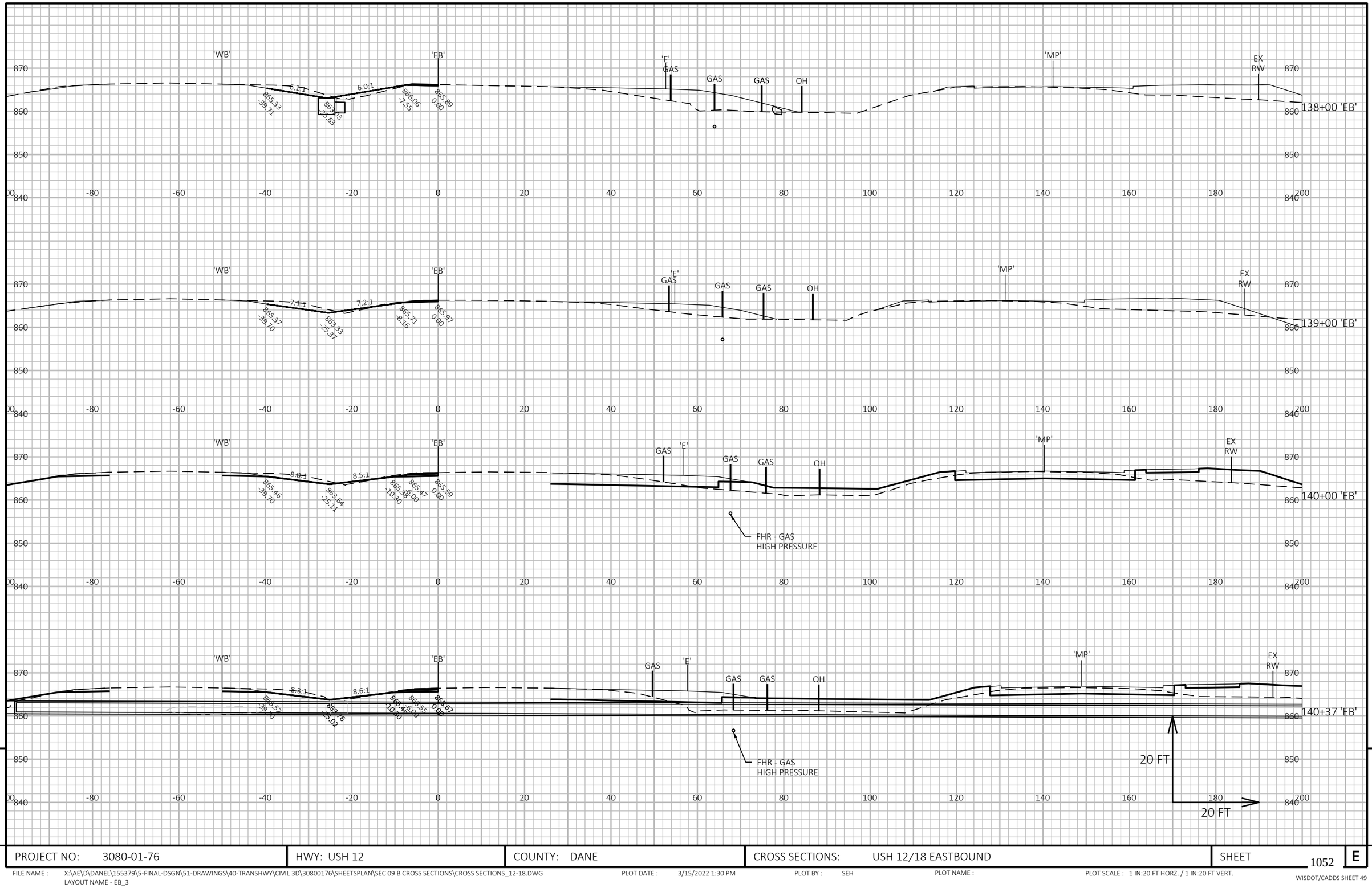
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



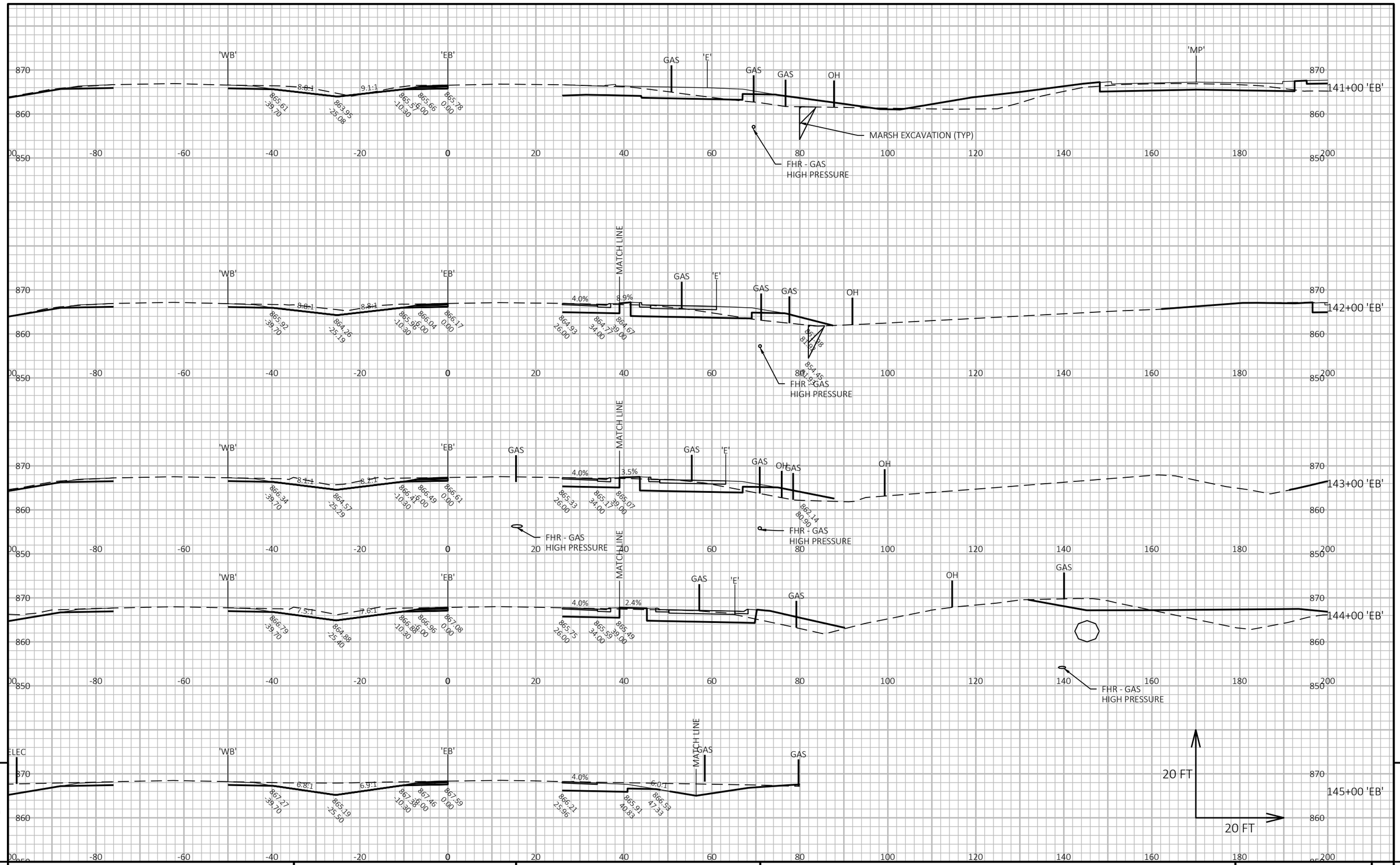
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1051	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_2
PLOT DATE : 3/15/2022 1:30 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1052	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_3
PLOT DATE : 3/15/2022 1:30 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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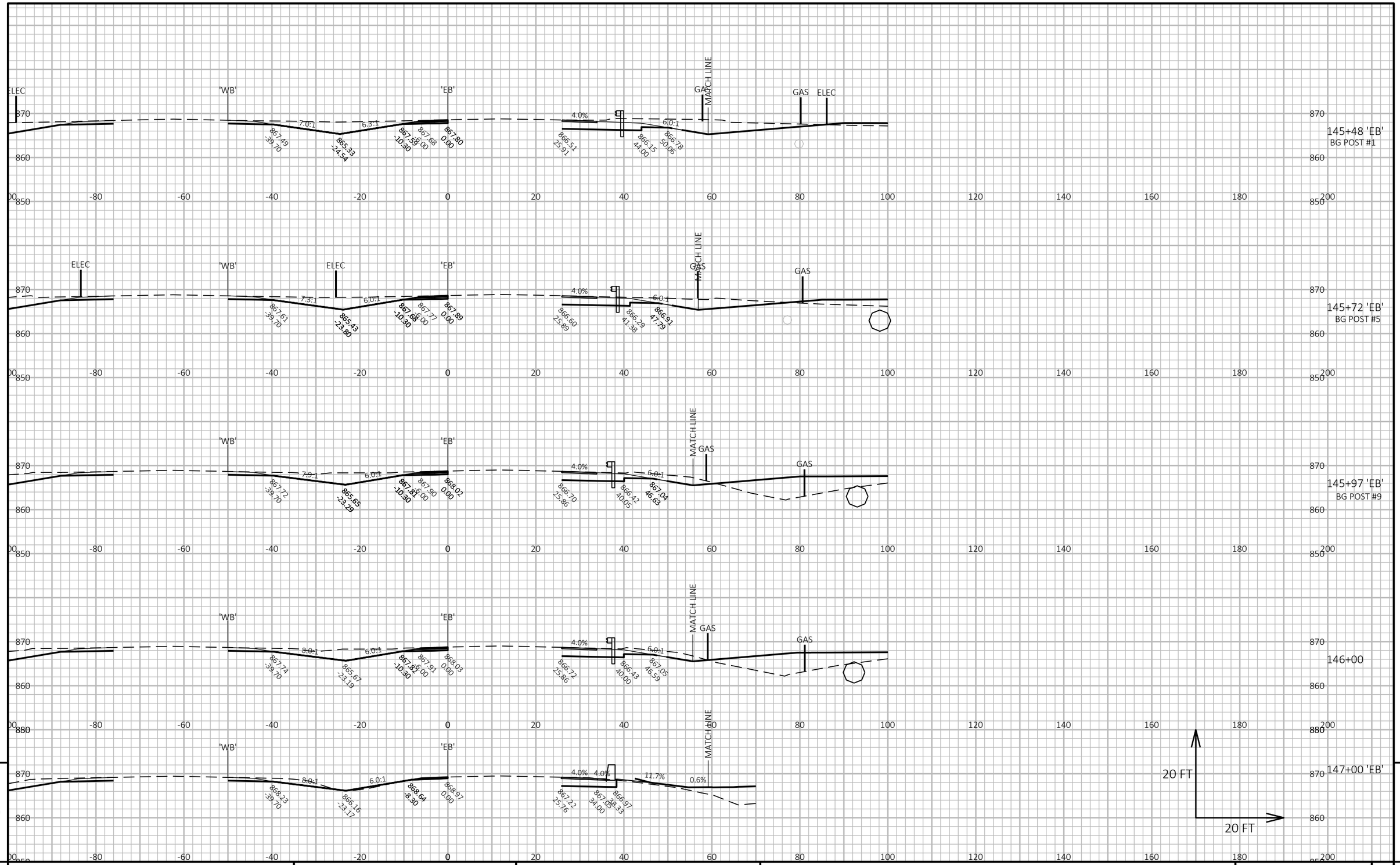
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1053	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_4

PLOT DATE : 3/15/2022 1:31 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1054	E

9

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_5

PLOT DATE : 3/15/2022 1:31 PM

PLOT BY : SEH

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

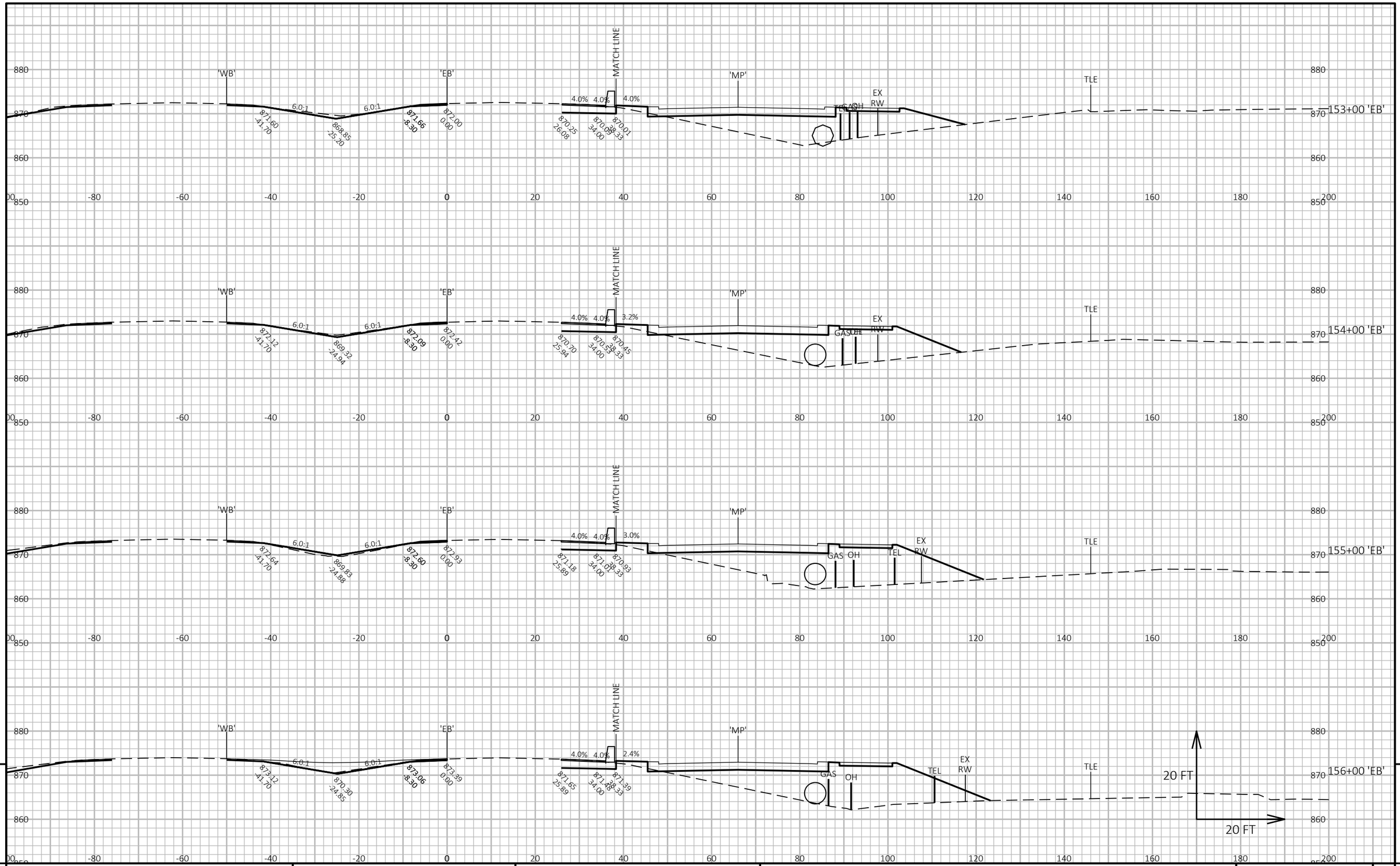
WISDOT/CADDS SHEET 49

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1055 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_6

PLOT DATE : 3/15/2022 1:32 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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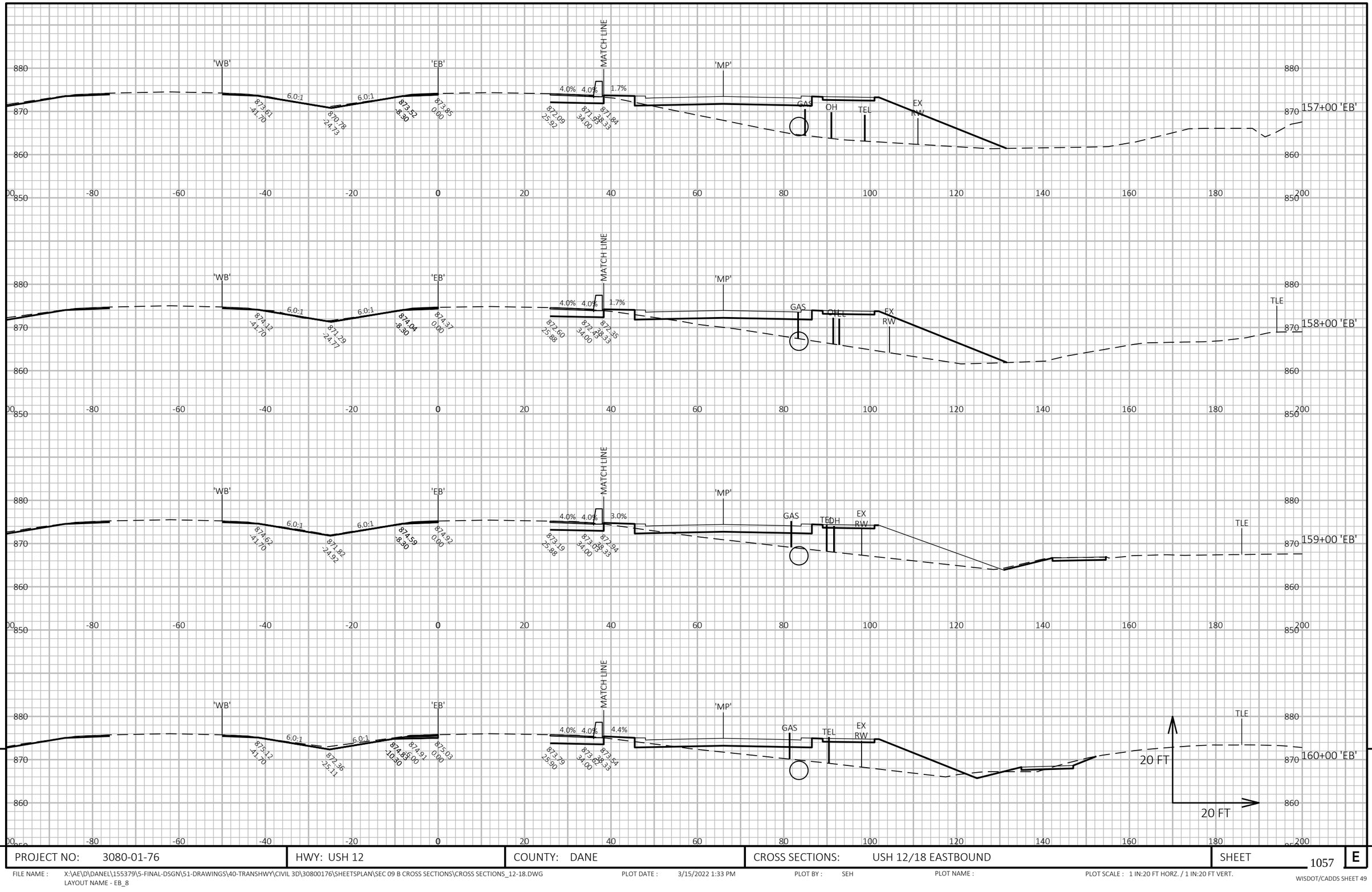
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1056	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_7
PLOT DATE : 3/15/2022 1:32 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1057	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_8

PLOT DATE : 3/15/2022 1:33 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

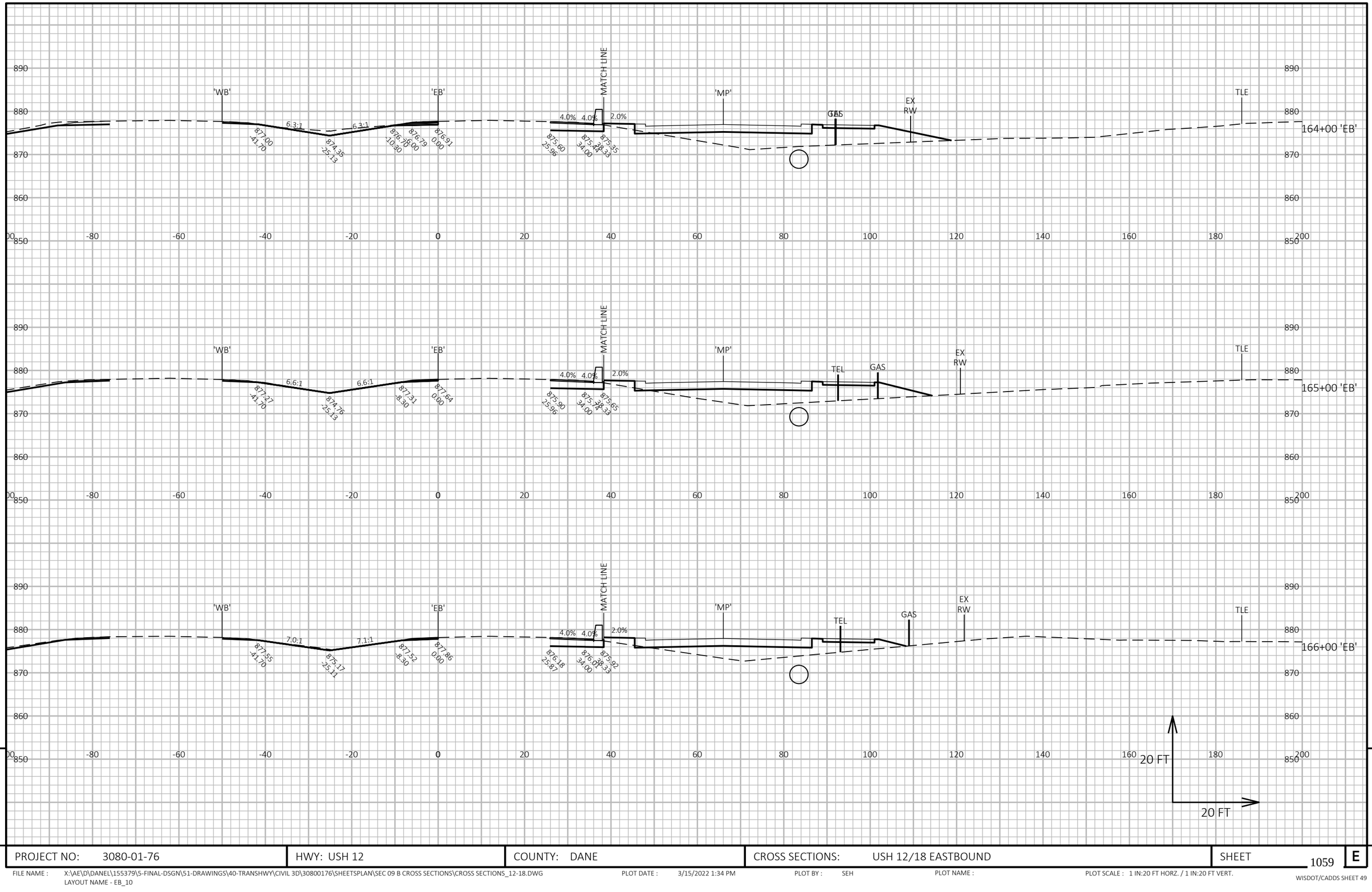
9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1058	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_9

PLOT DATE : 3/15/2022 1:33 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1059	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_10

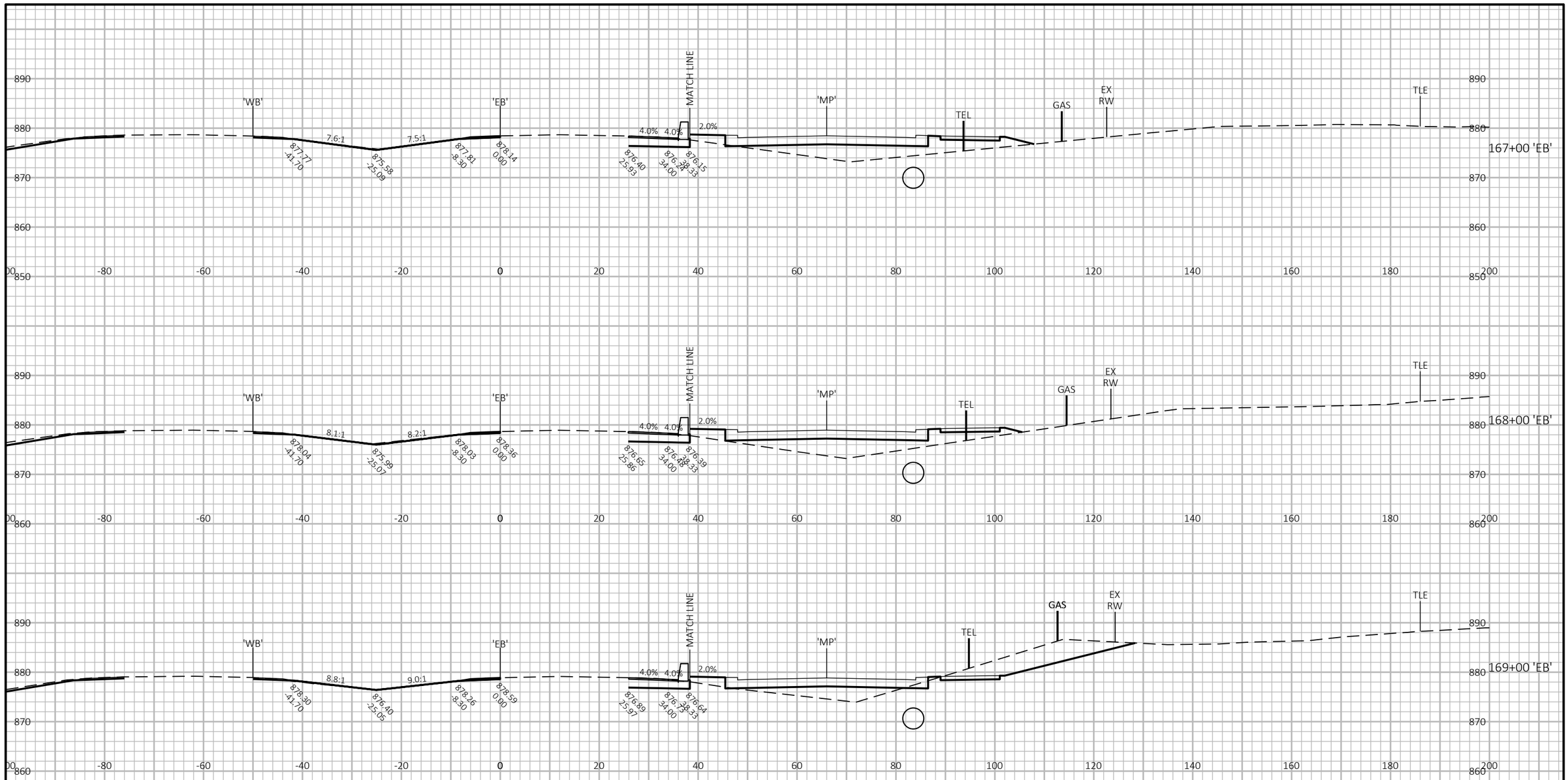
PLOT DATE : 3/15/2022 1:34 PM

PLOT BY : SEH

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1060	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_11

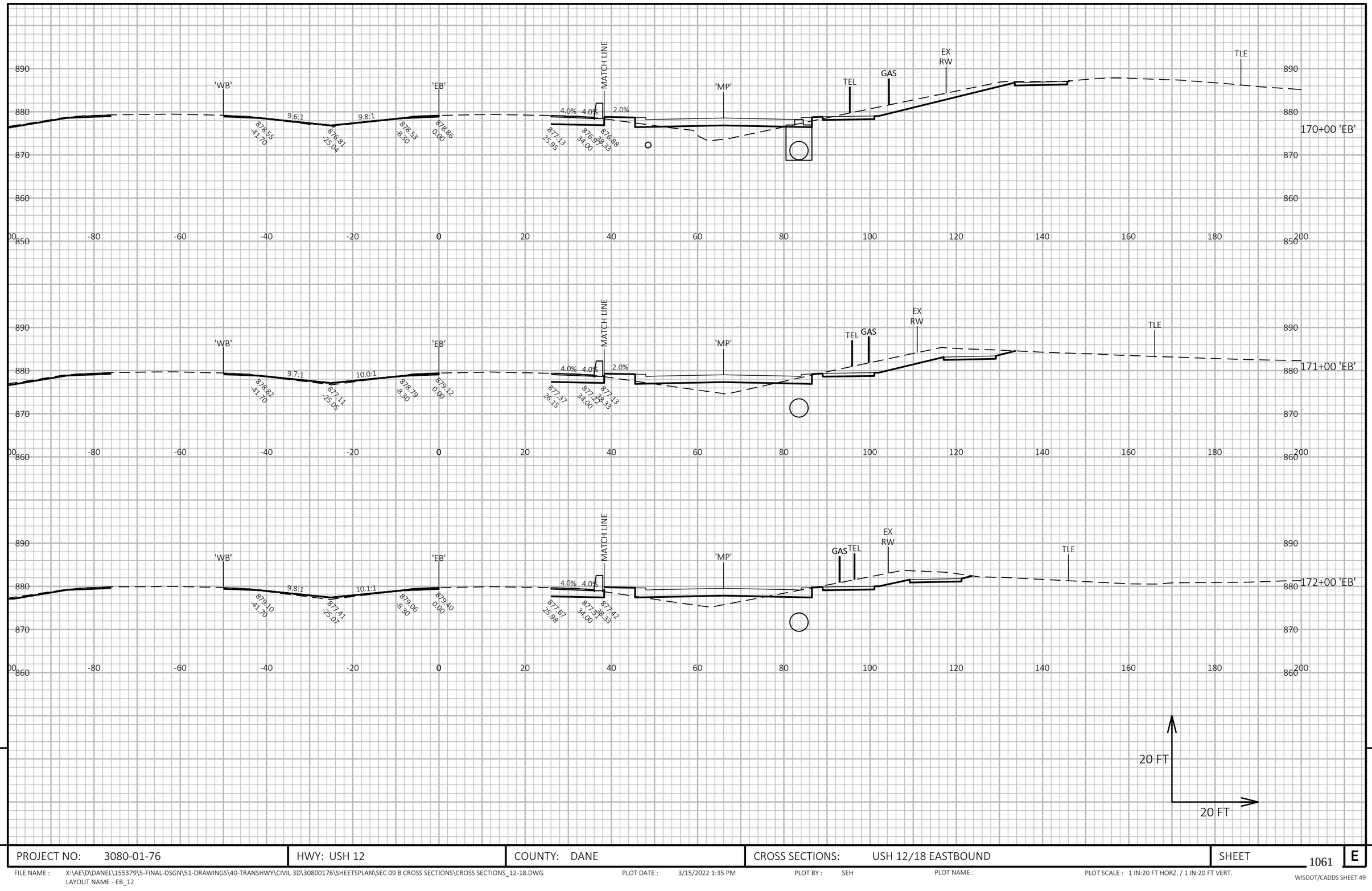
PLOT DATE : 3/15/2022 1:34 PM

PLOT BY : SEH

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1061	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_12

PLOT DATE : 3/15/2022 1:35 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

9

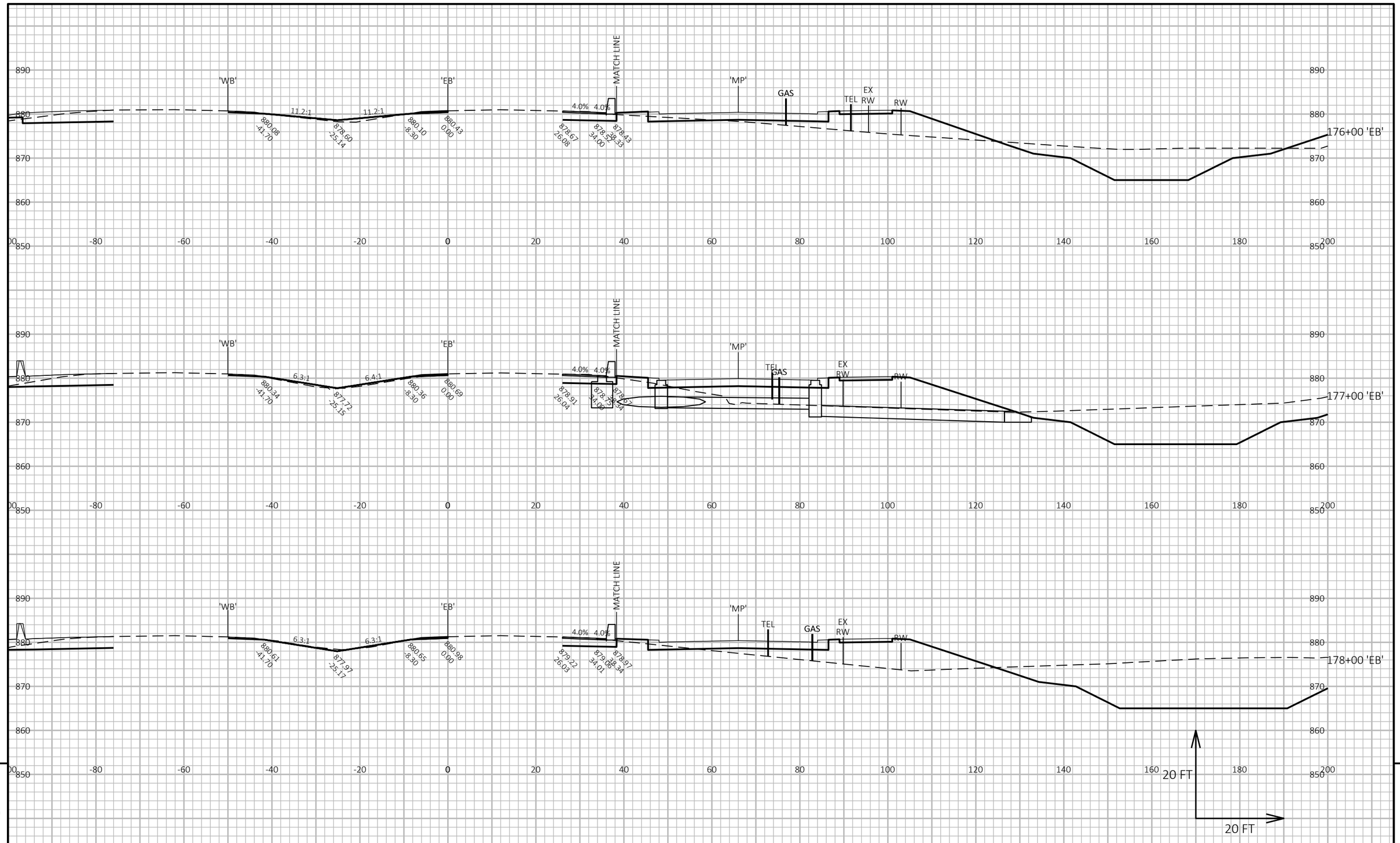
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1062	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_13

PLOT DATE : 3/15/2022 1:35 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



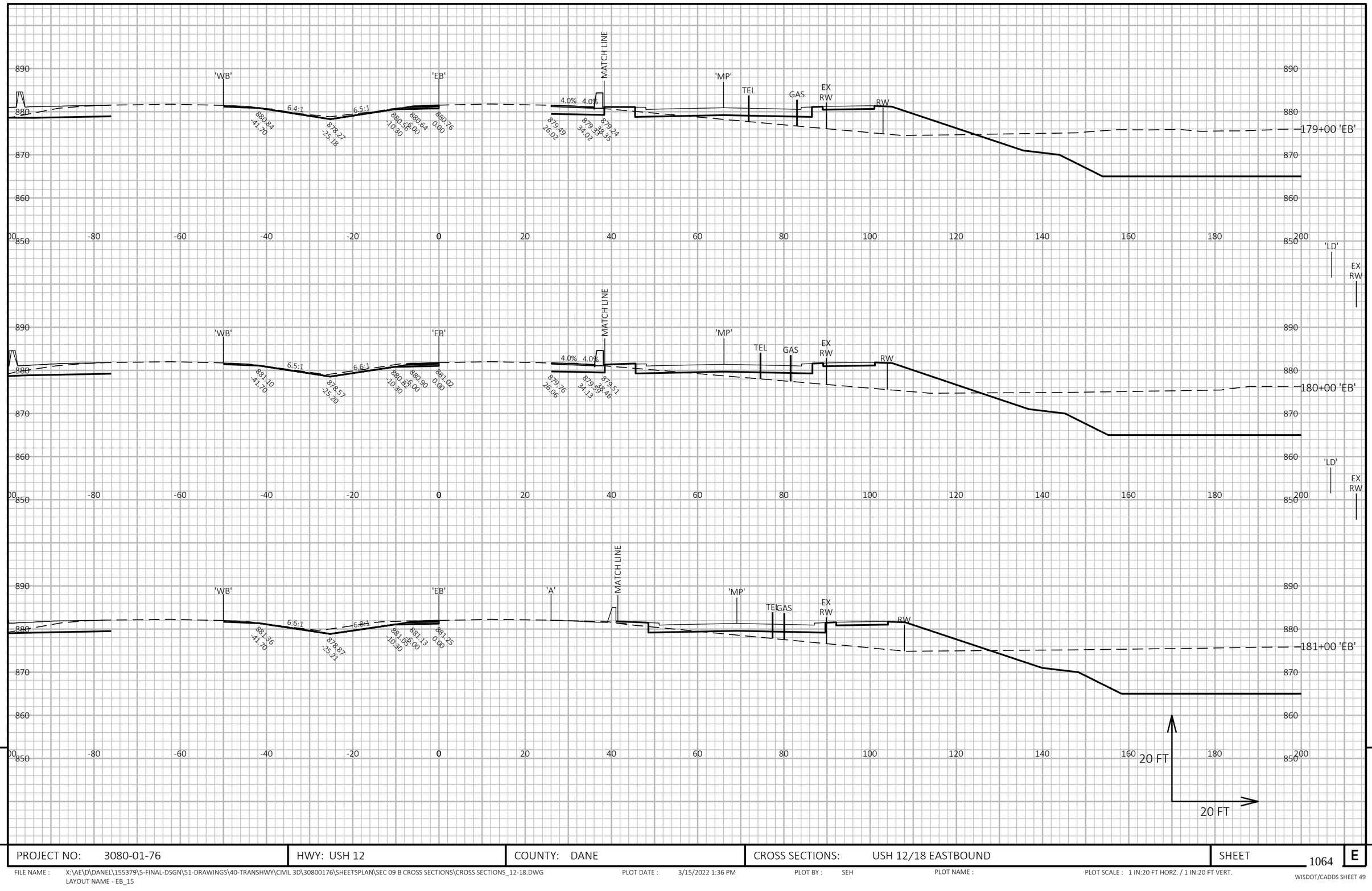
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1063	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_14

PLOT DATE : 3/15/2022 1:36 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

9 9



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1064	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_15

PLOT DATE : 3/15/2022 1:36 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

9

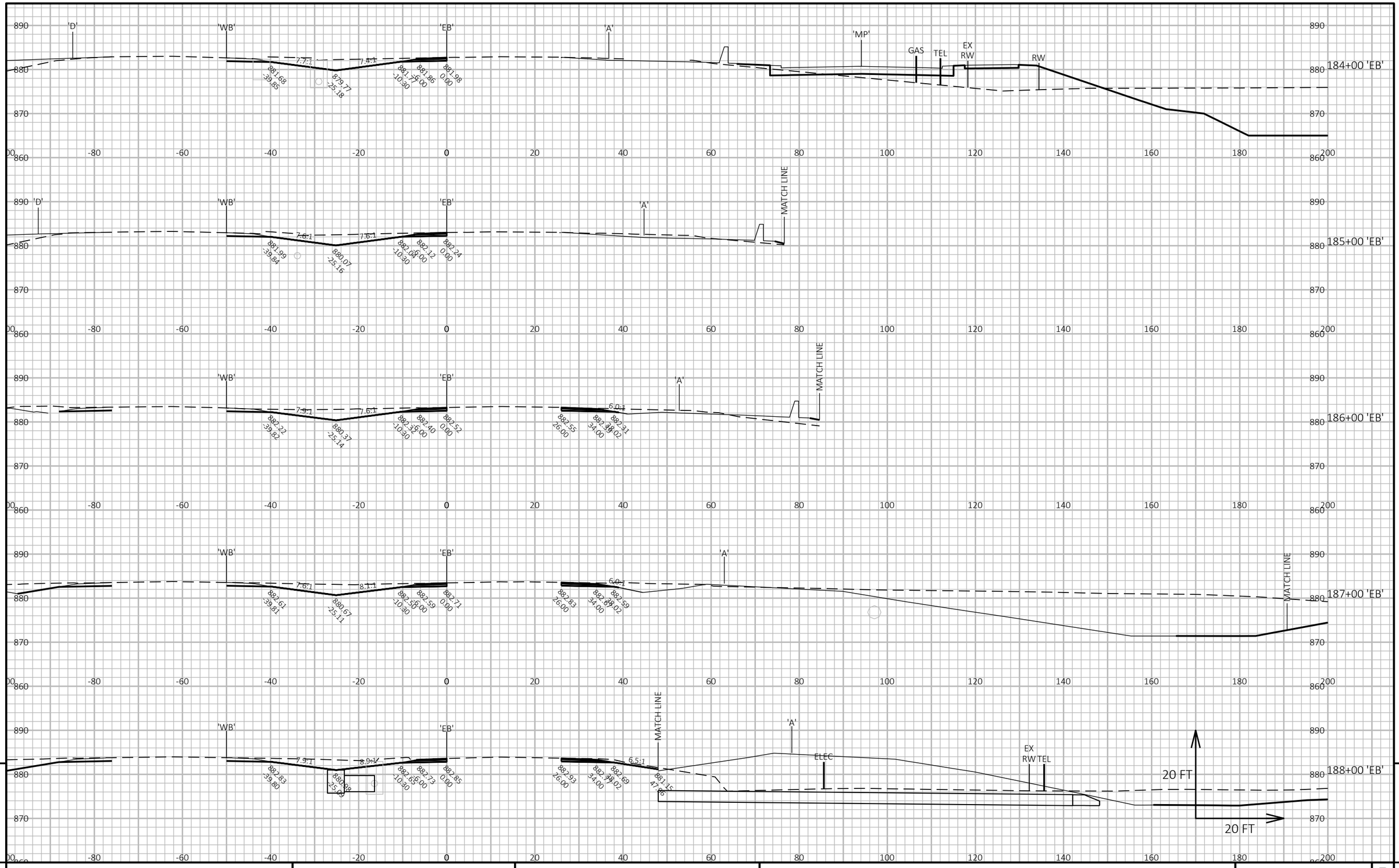
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1065	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_16

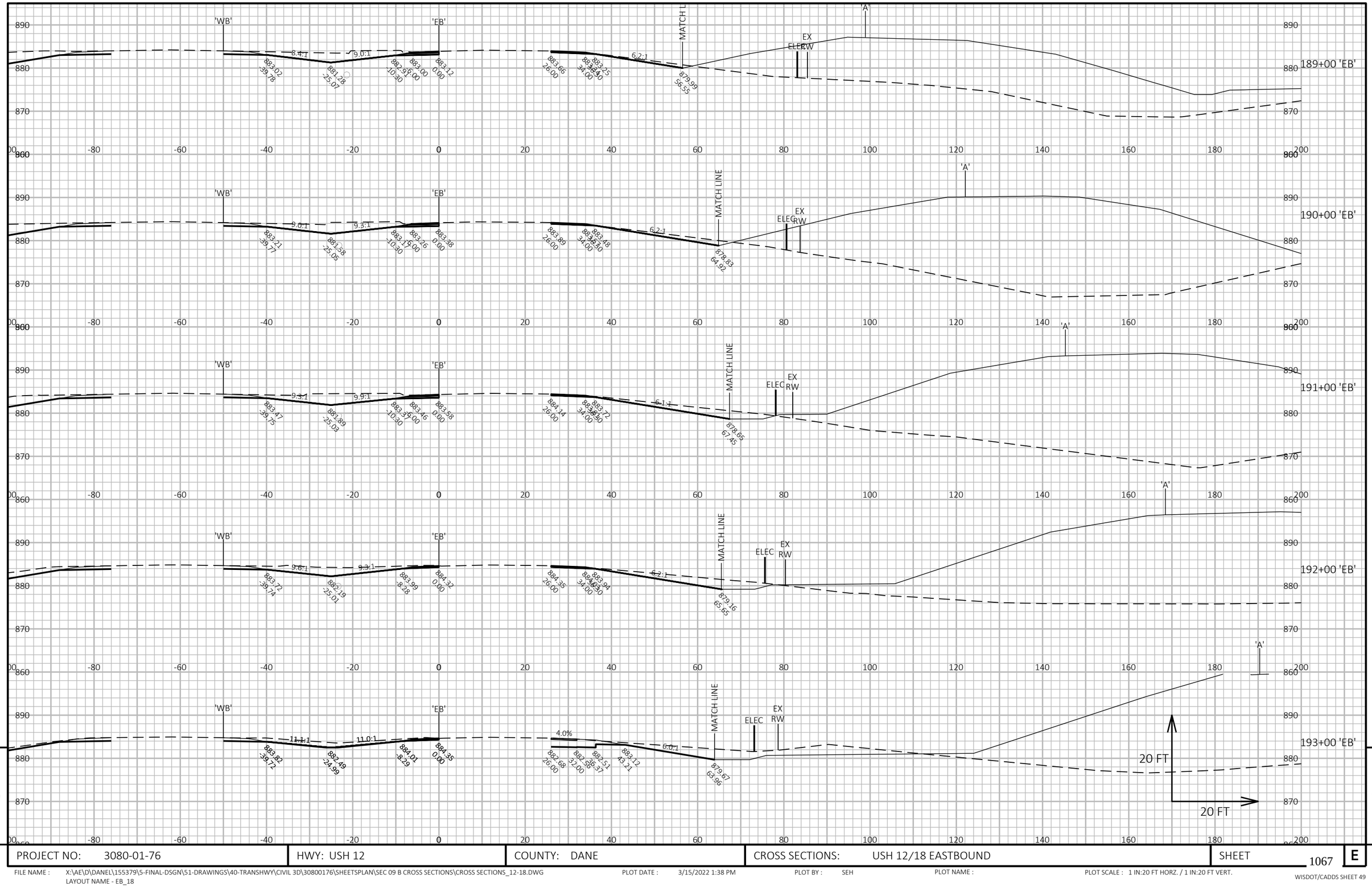
PLOT DATE : 3/15/2022 1:37 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1066 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_17
PLOT DATE : 3/15/2022 1:38 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



9

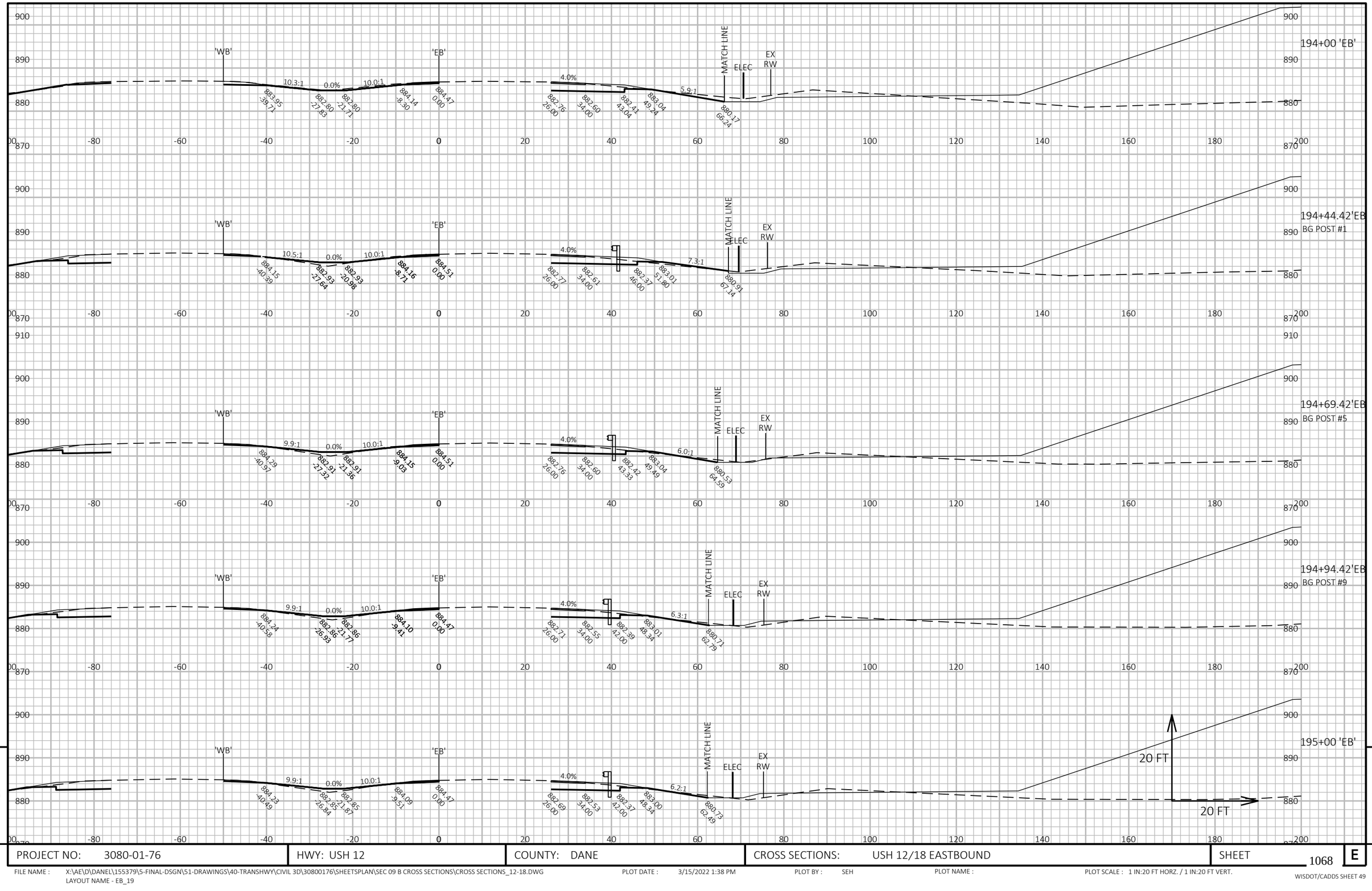
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1067	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_18

PLOT DATE : 3/15/2022 1:38 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1068	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_19

PLOT DATE : 3/15/2022 1:38 PM

PLOT BY : SEH

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

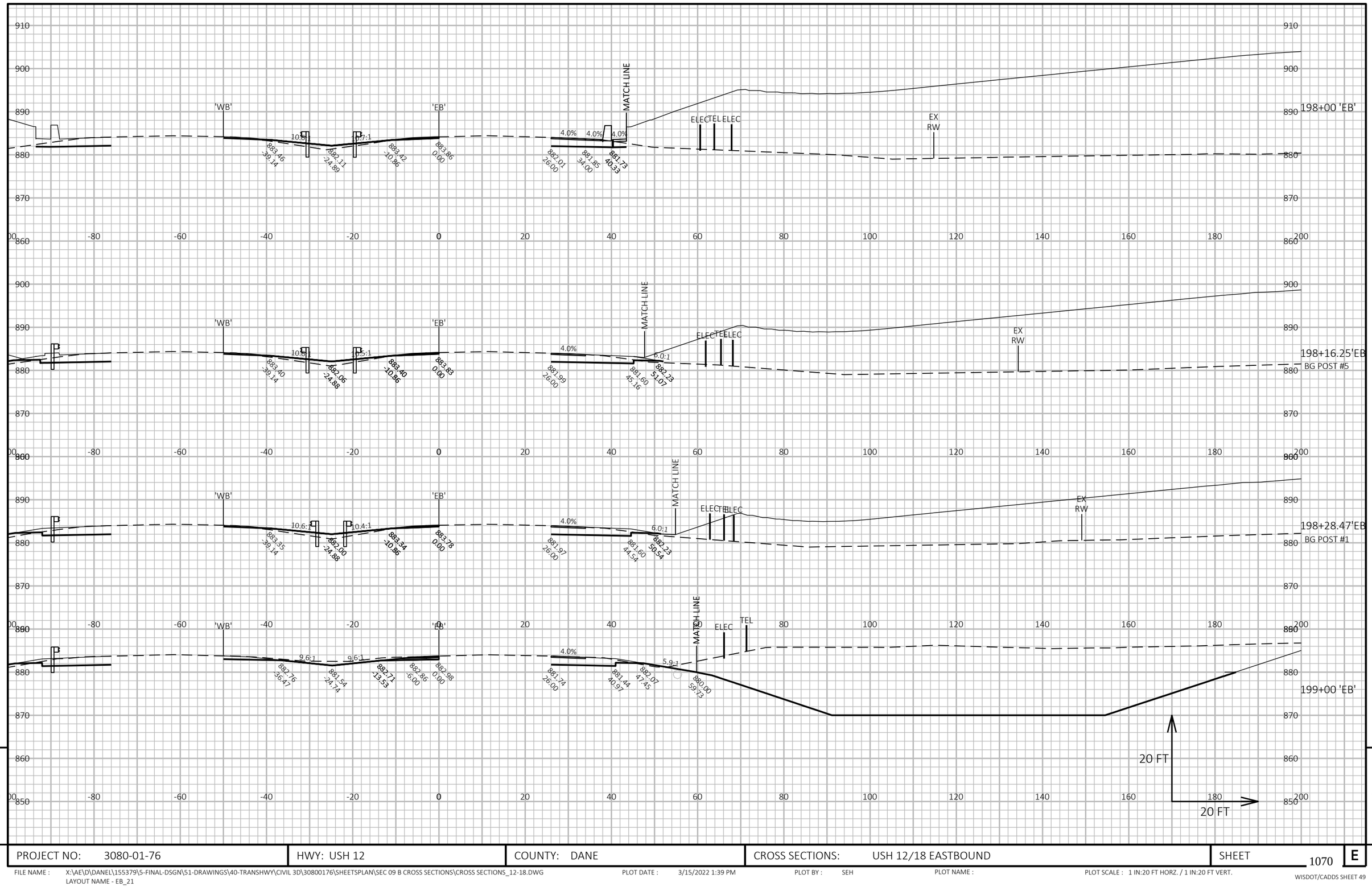
WISDOT/CADDS SHEET 49

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1069 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_20

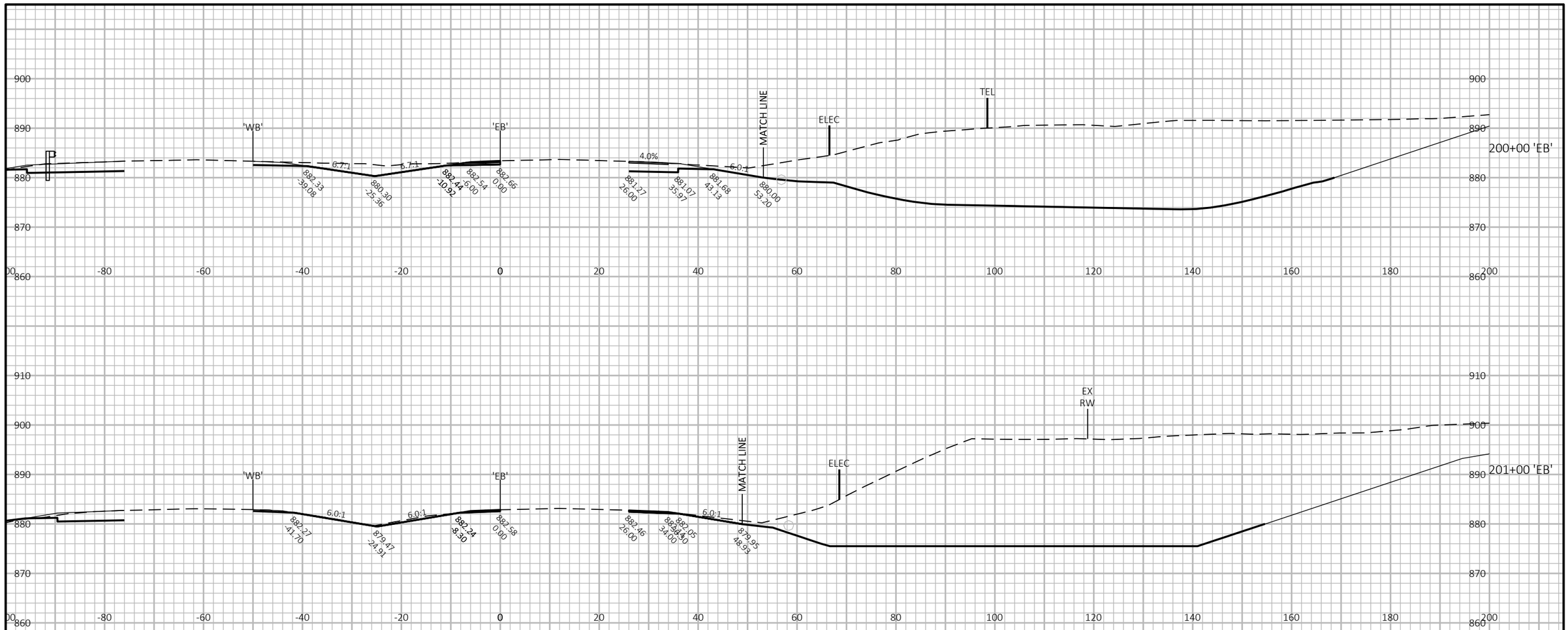
PLOT DATE : 3/15/2022 1:39 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1070 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_21
PLOT DATE : 3/15/2022 1:39 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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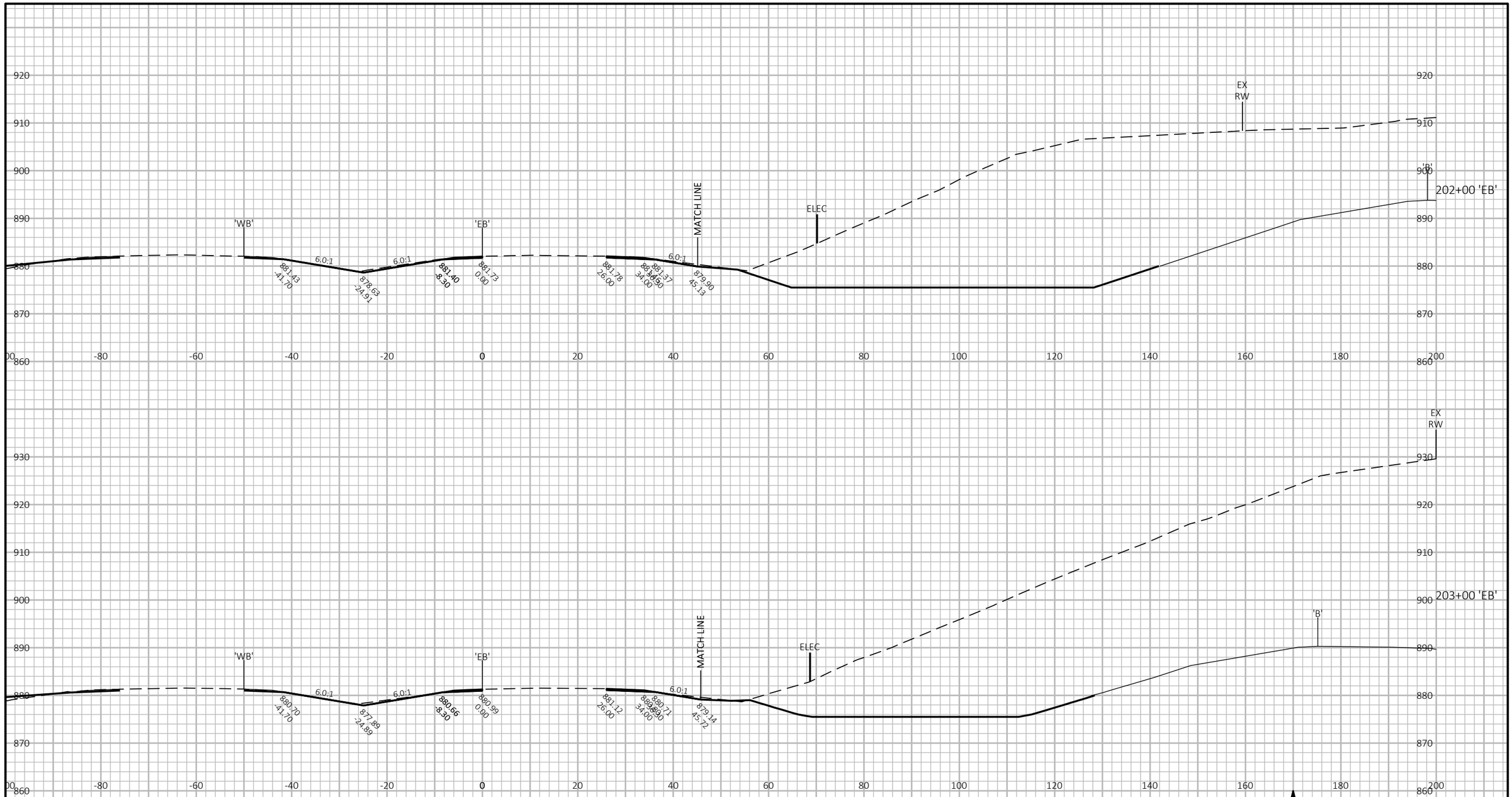
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1071	E

9

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_22

PLOT DATE : 3/15/2022 1:40 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

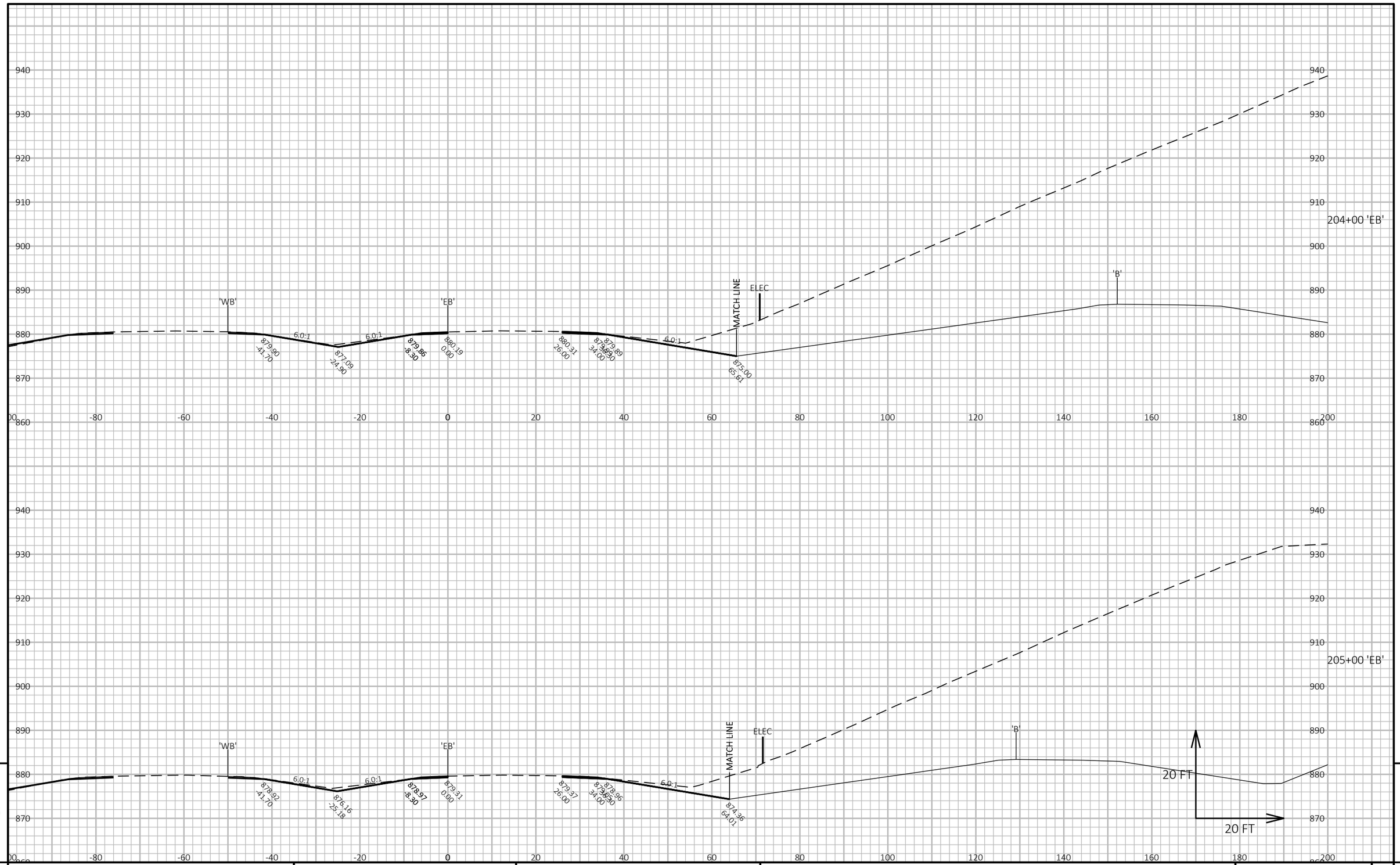


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1072	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_23

PLOT DATE : 3/15/2022 1:40 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1073	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_24

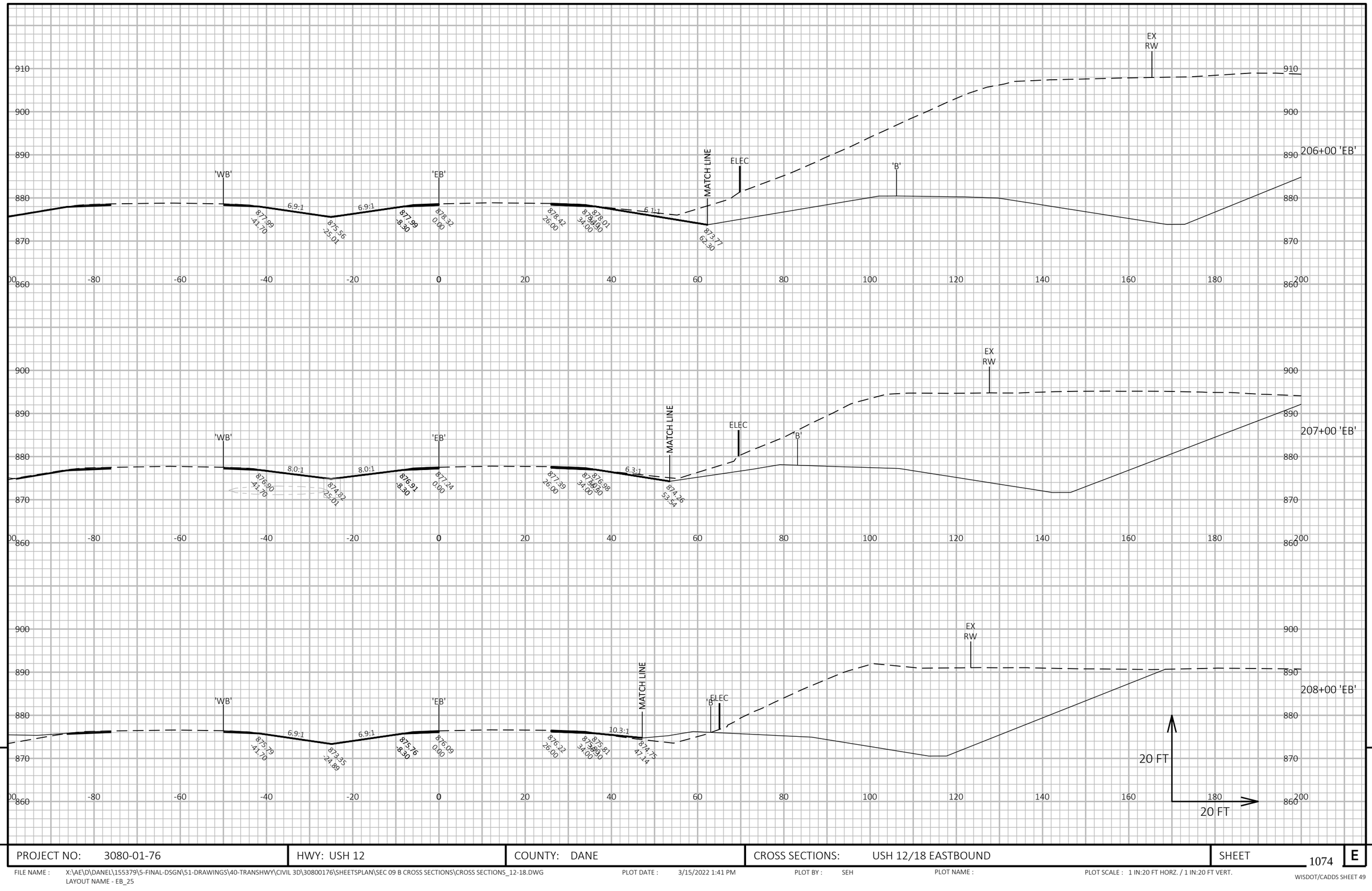
PLOT DATE : 3/15/2022 1:40 PM

PLOT BY : SEH

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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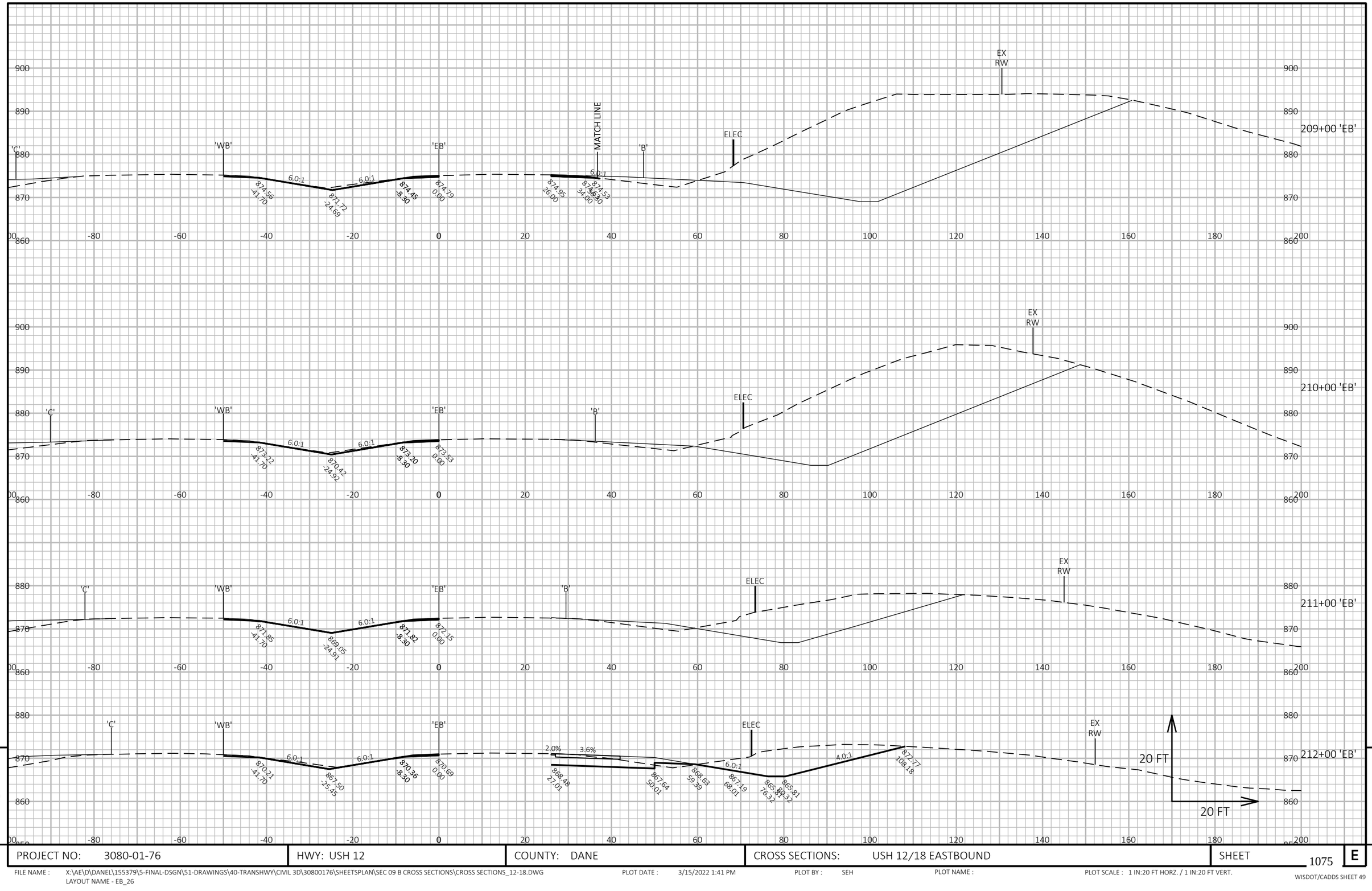
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1074	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_25

PLOT DATE : 3/15/2022 1:41 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

9



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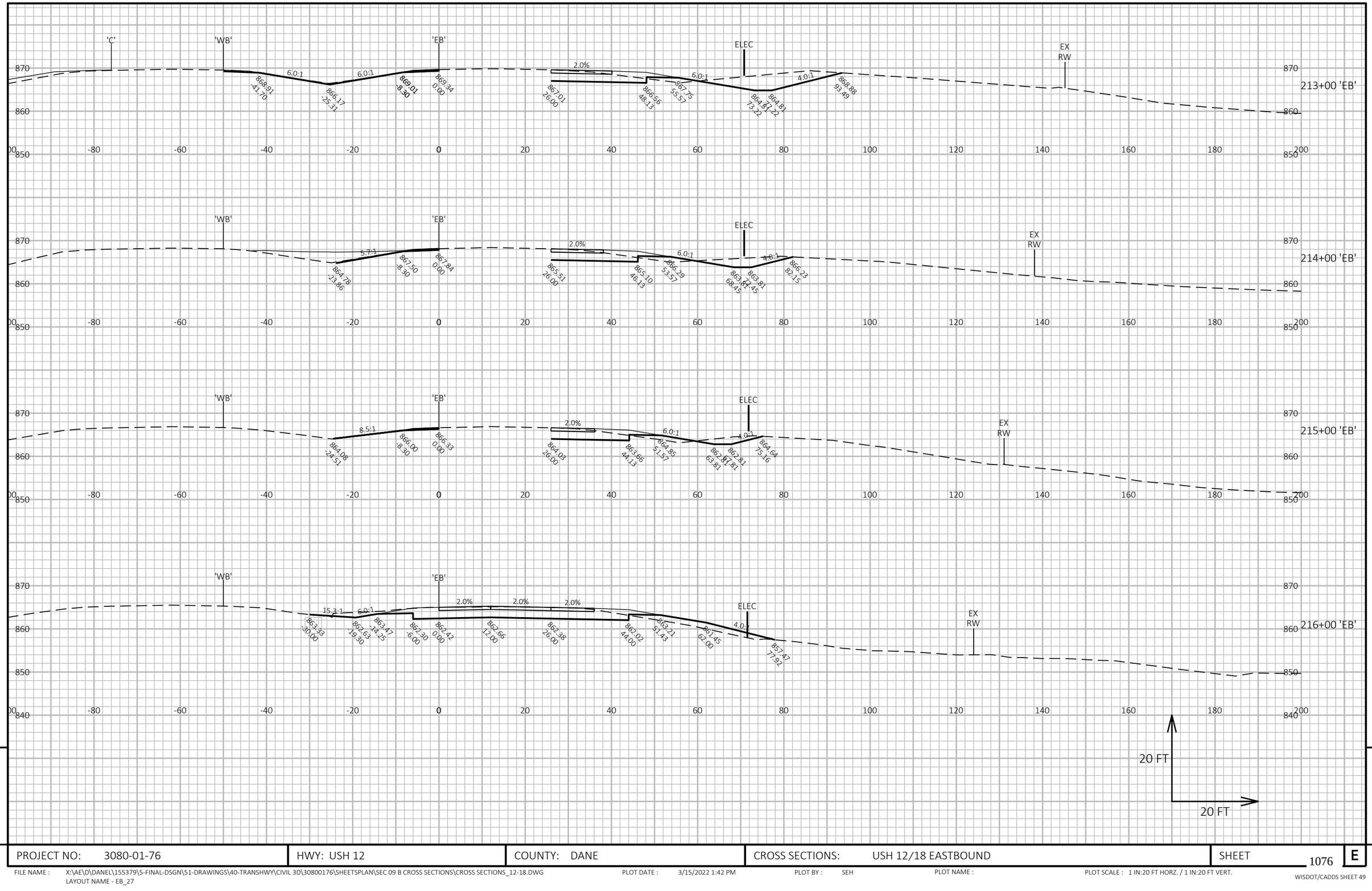
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1075	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_26

PLOT DATE : 3/15/2022 1:41 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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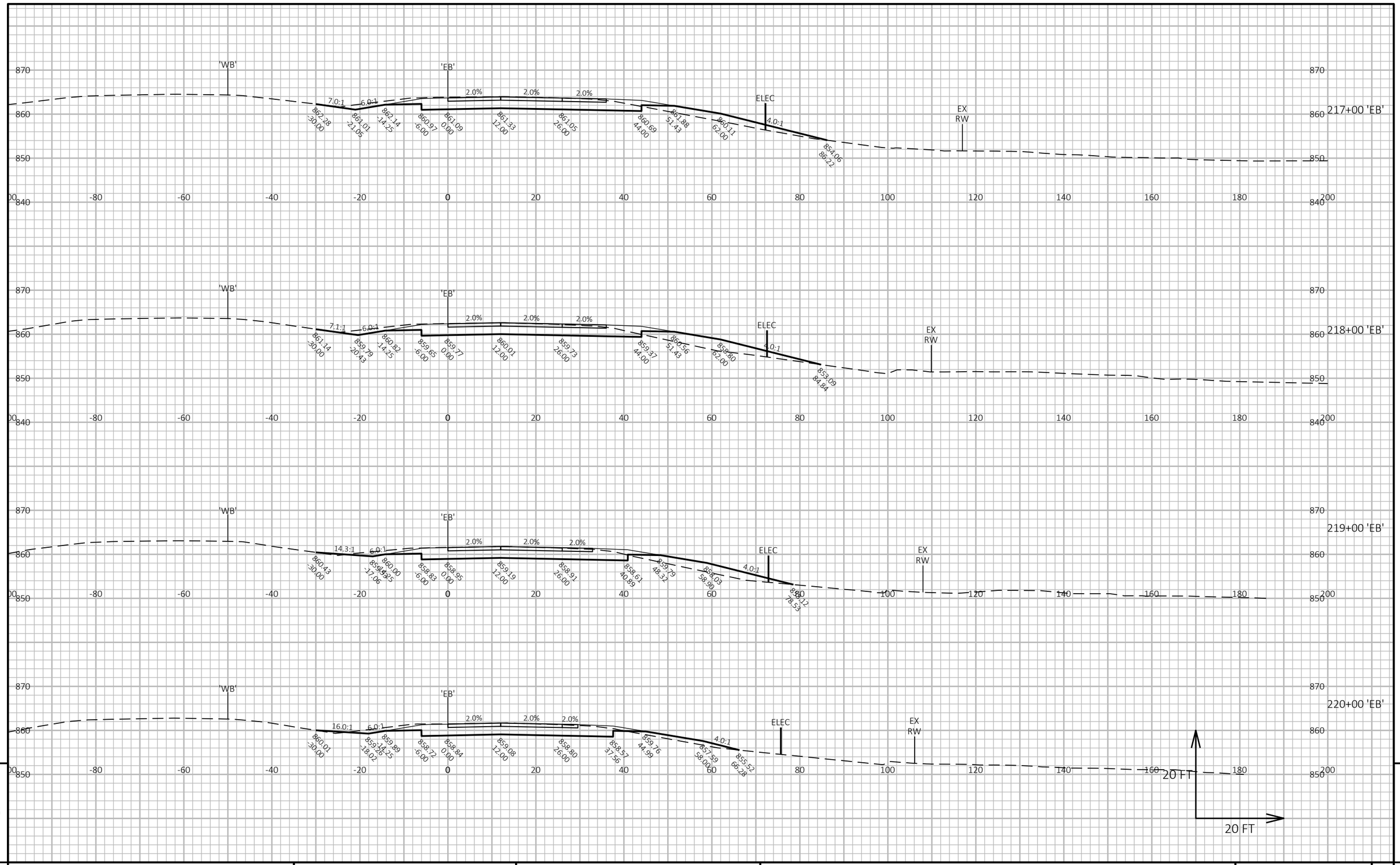
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1076	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_27

PLOT DATE : 3/15/2022 1:42 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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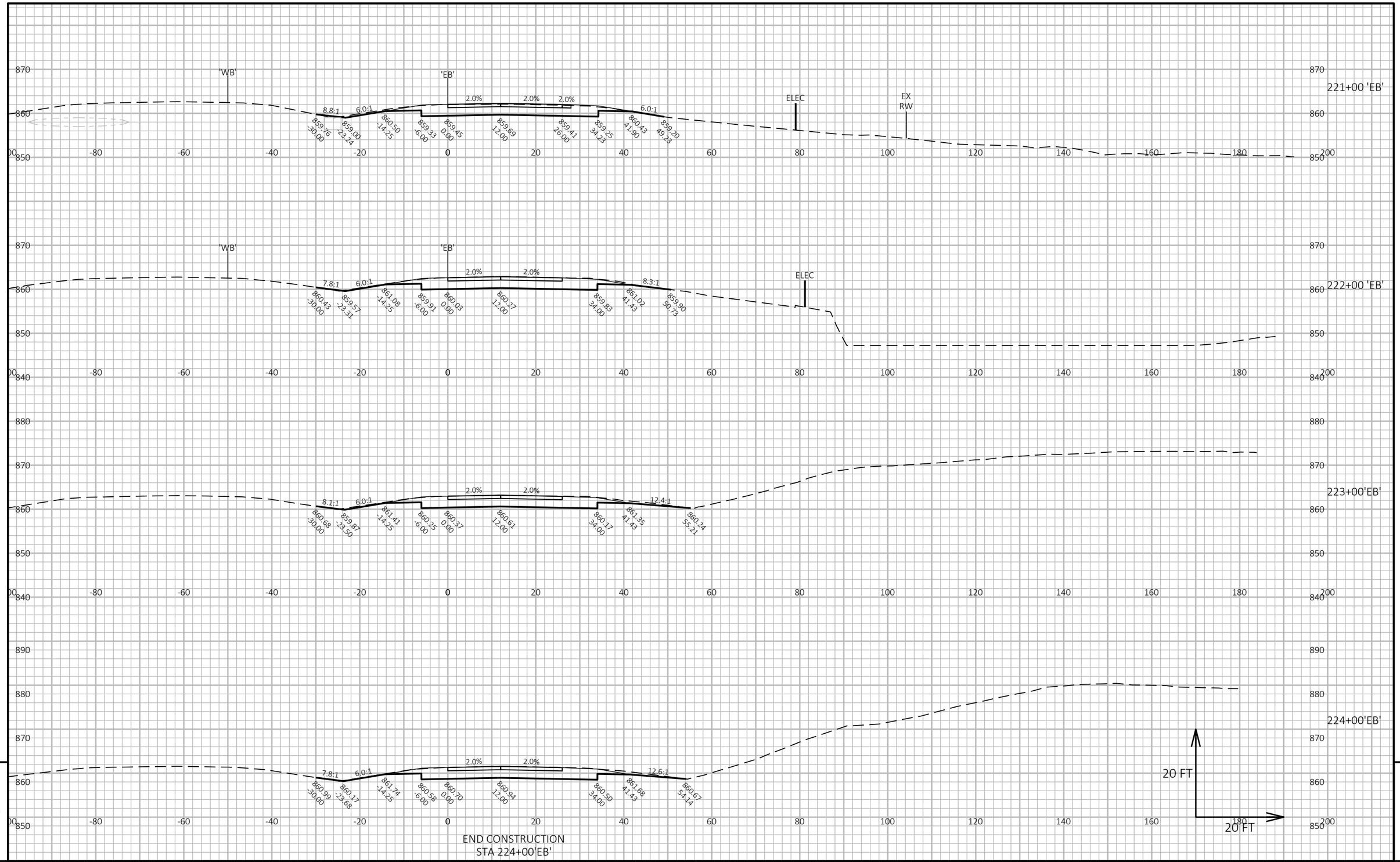
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1077	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_28

PLOT DATE : 3/15/2022 1:43 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 EASTBOUND	SHEET 1078	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - EB_29

PLOT DATE : 3/15/2022 1:43 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

9 9

BEGIN CONSTRUCTION
STA 129+94.50'WB'

9

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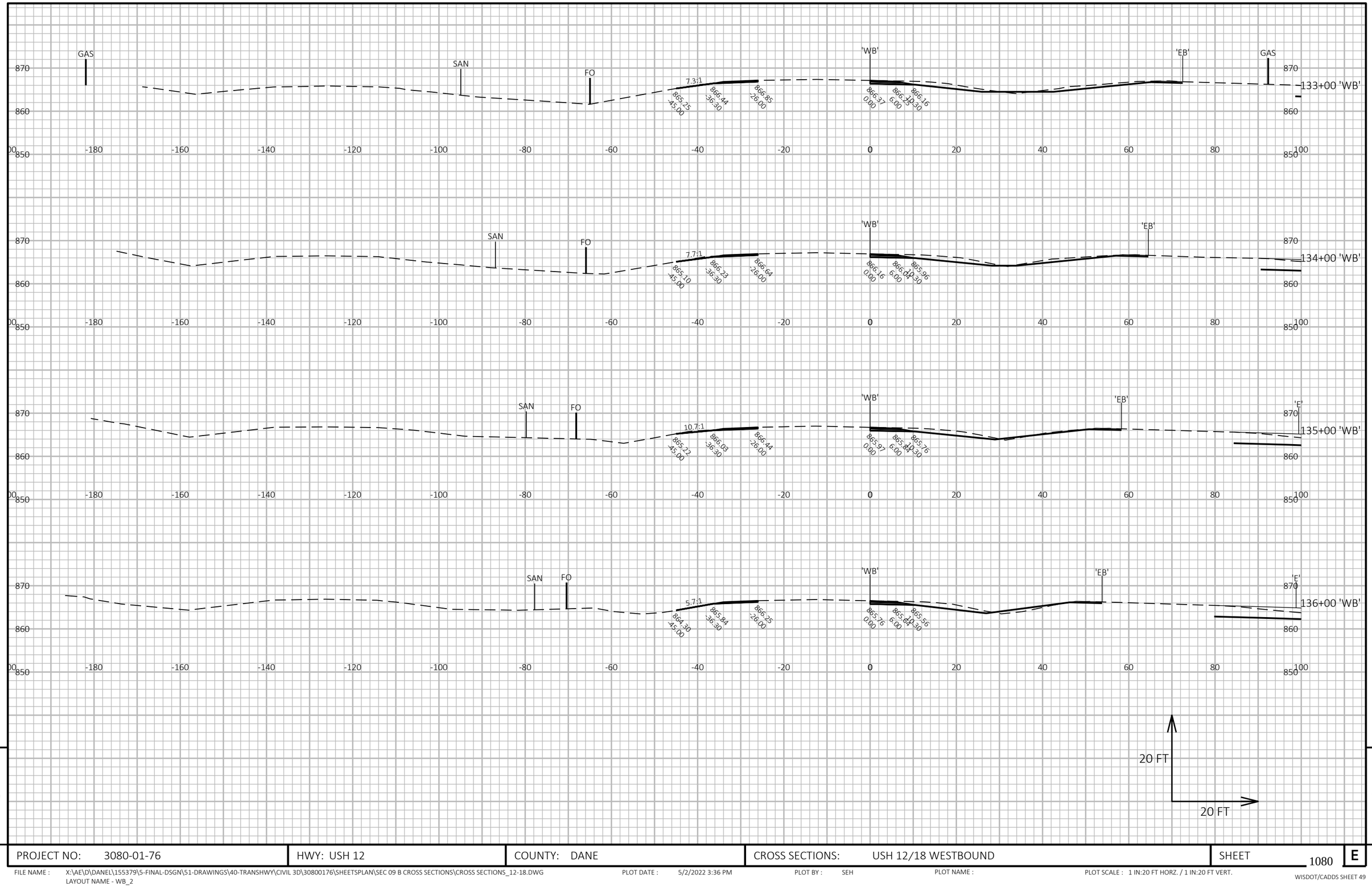
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1079	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_1
PLOT DATE : 5/2/2022 3:35 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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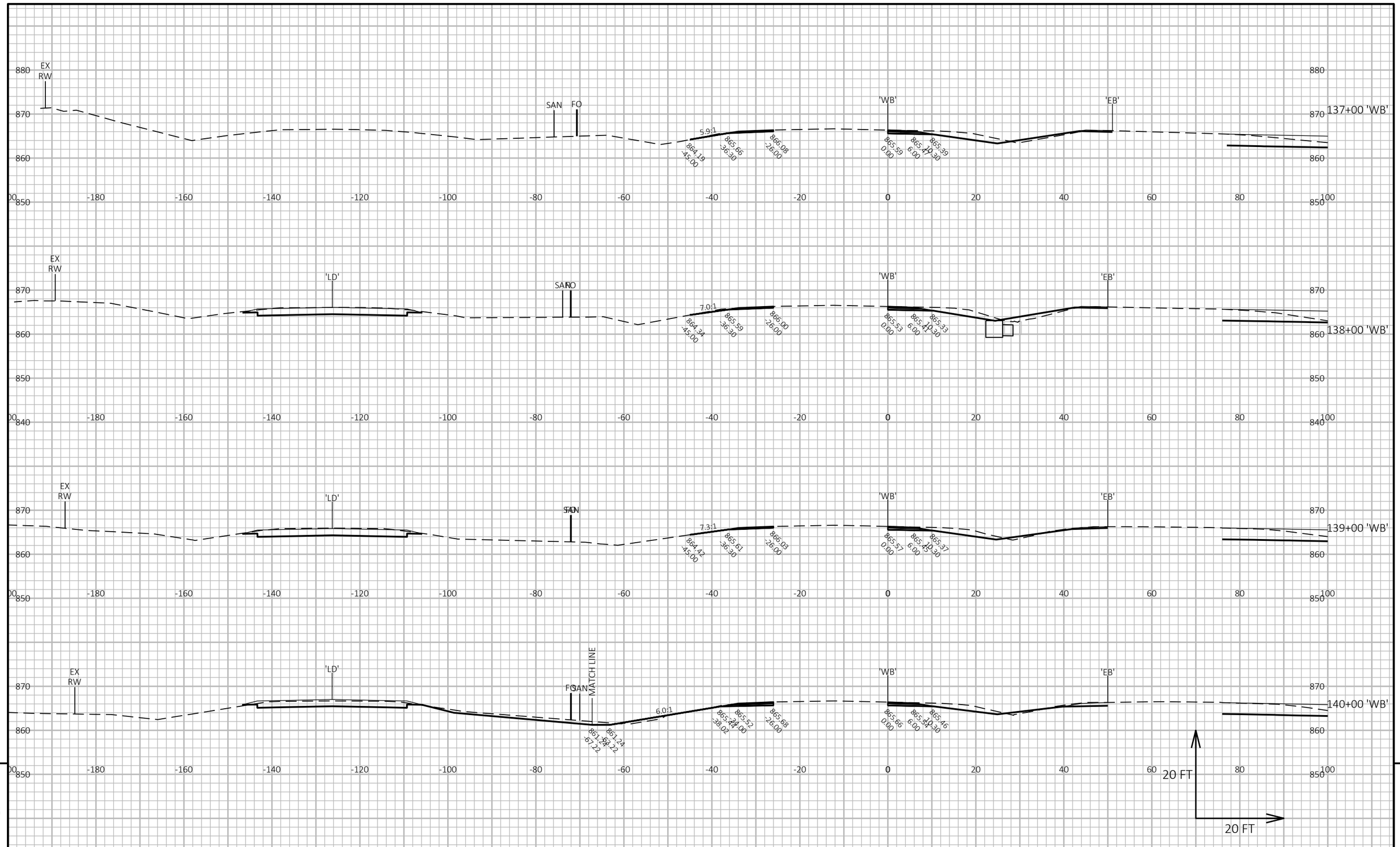
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1080	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_2

PLOT DATE : 5/2/2022 3:36 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1081	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_3

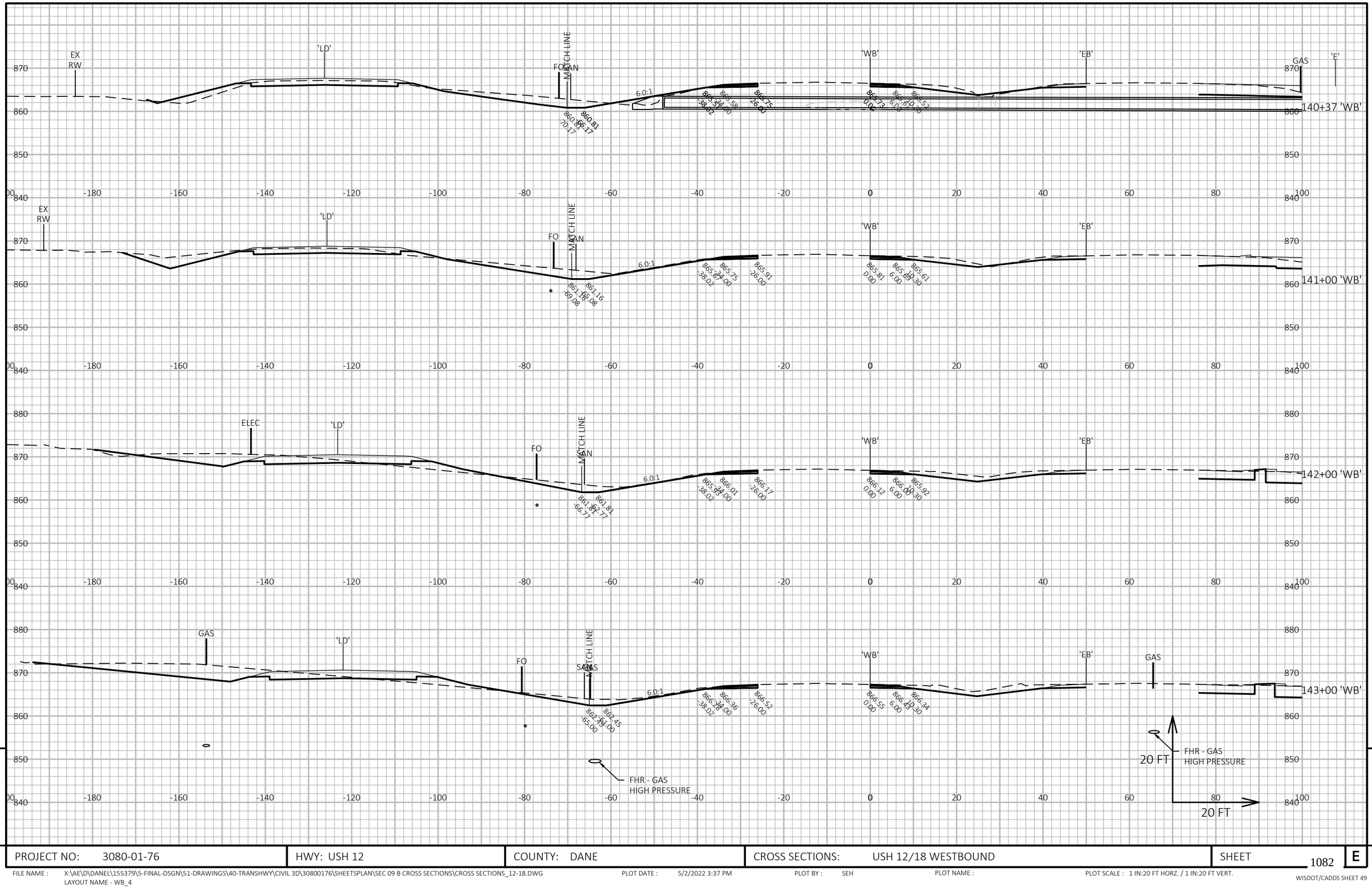
PLOT DATE : 5/2/2022 3:36 PM

PLOT BY : SEH

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

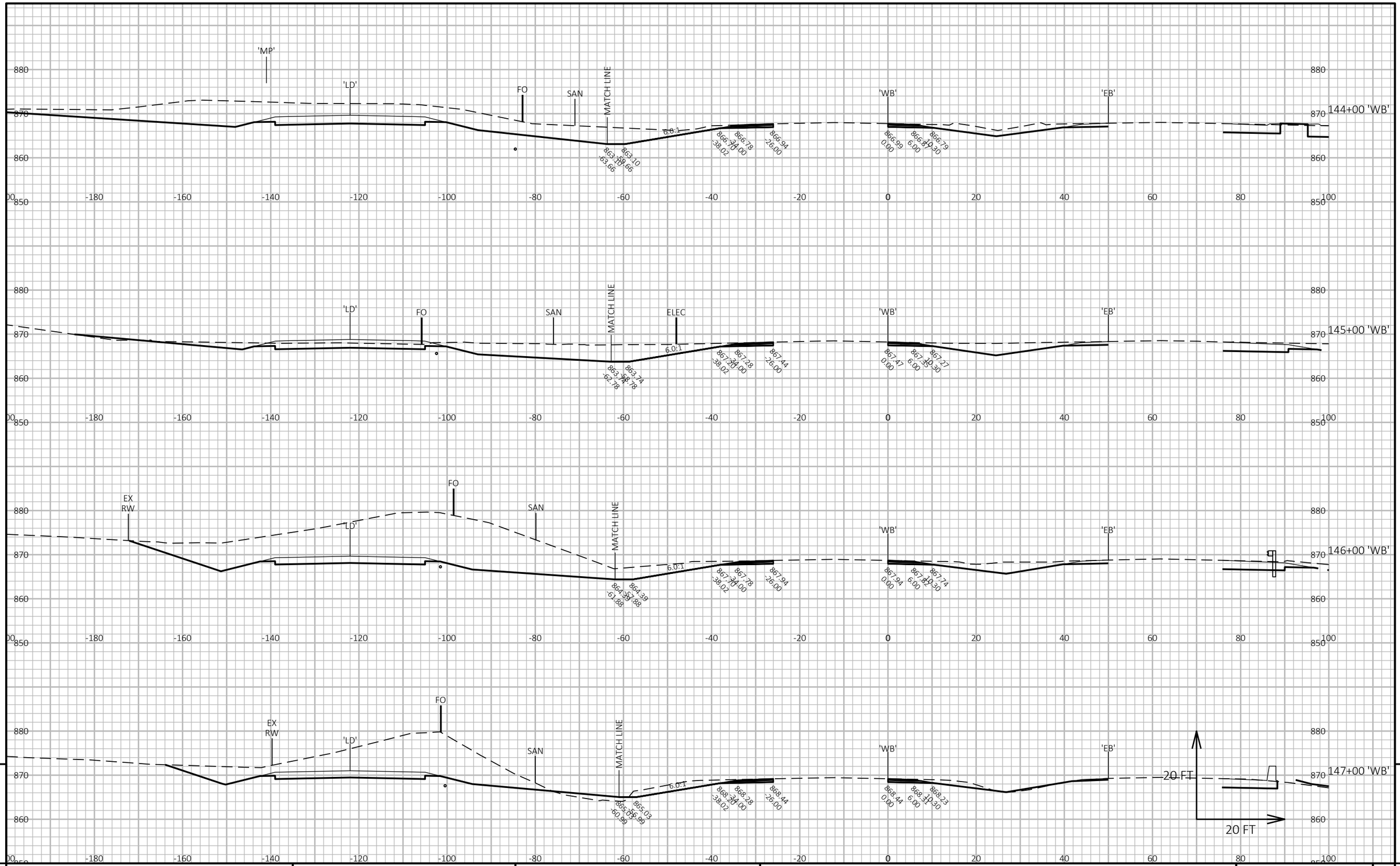
WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1082	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_4
PLOT DATE : 5/2/2022 3:37 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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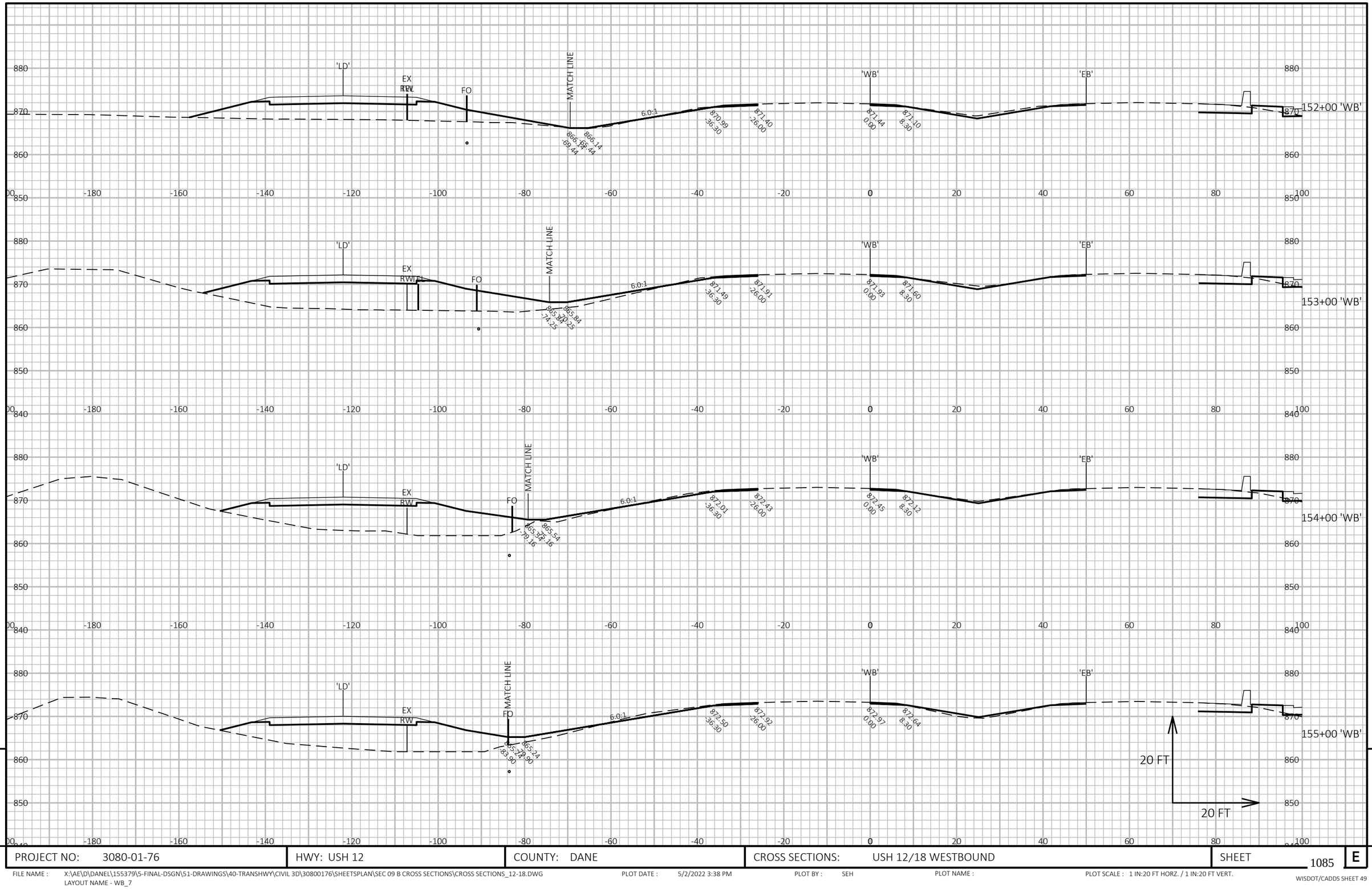
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1083	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_5
PLOT DATE : 5/2/2022 3:37 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1084 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_6
PLOT DATE : 5/2/2022 3:38 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1085	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_7

PLOT DATE : 5/2/2022 3:38 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1086	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_8

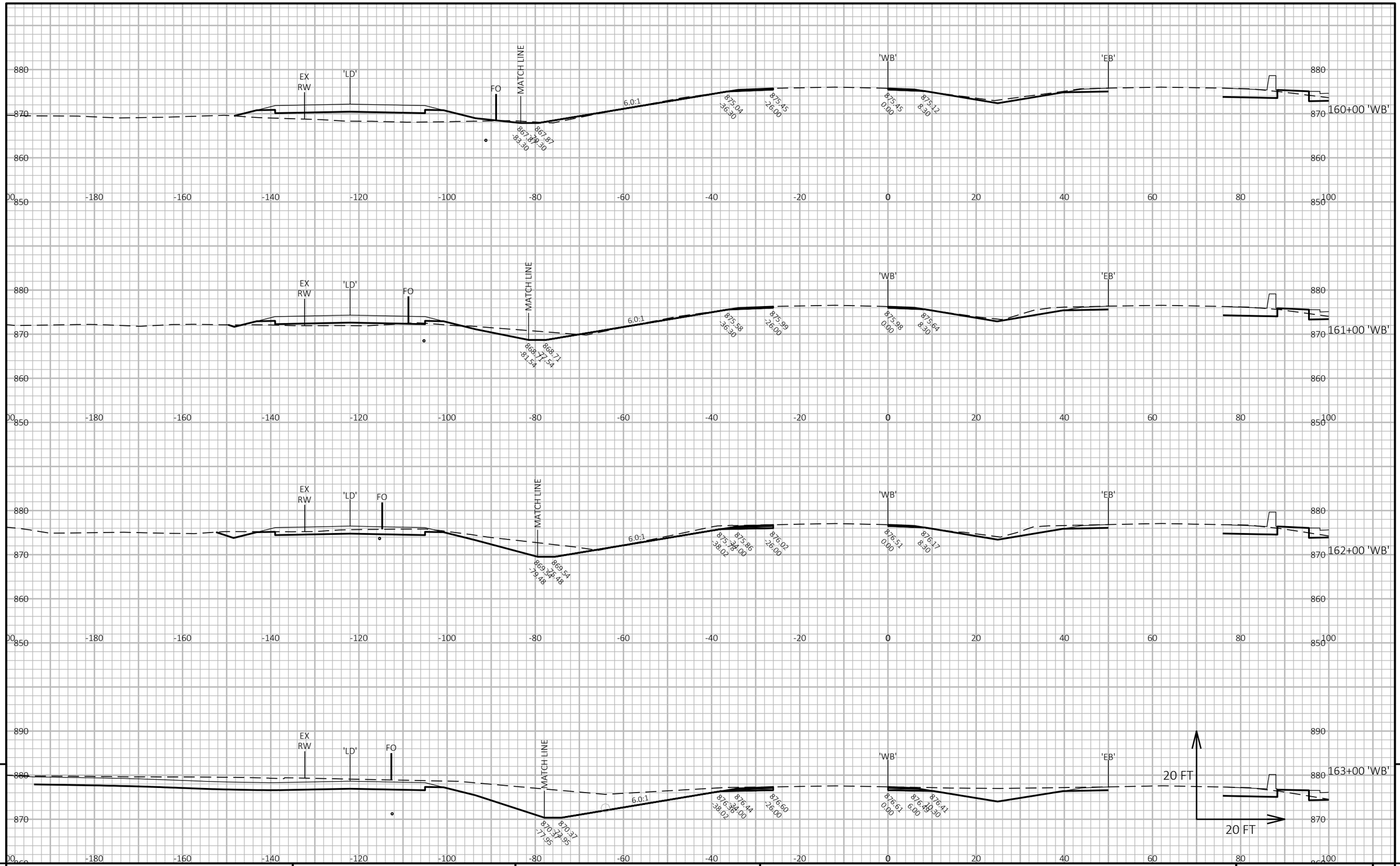
PLOT DATE : 5/2/2022 3:39 PM

PLOT BY : SEH

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1087	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_9

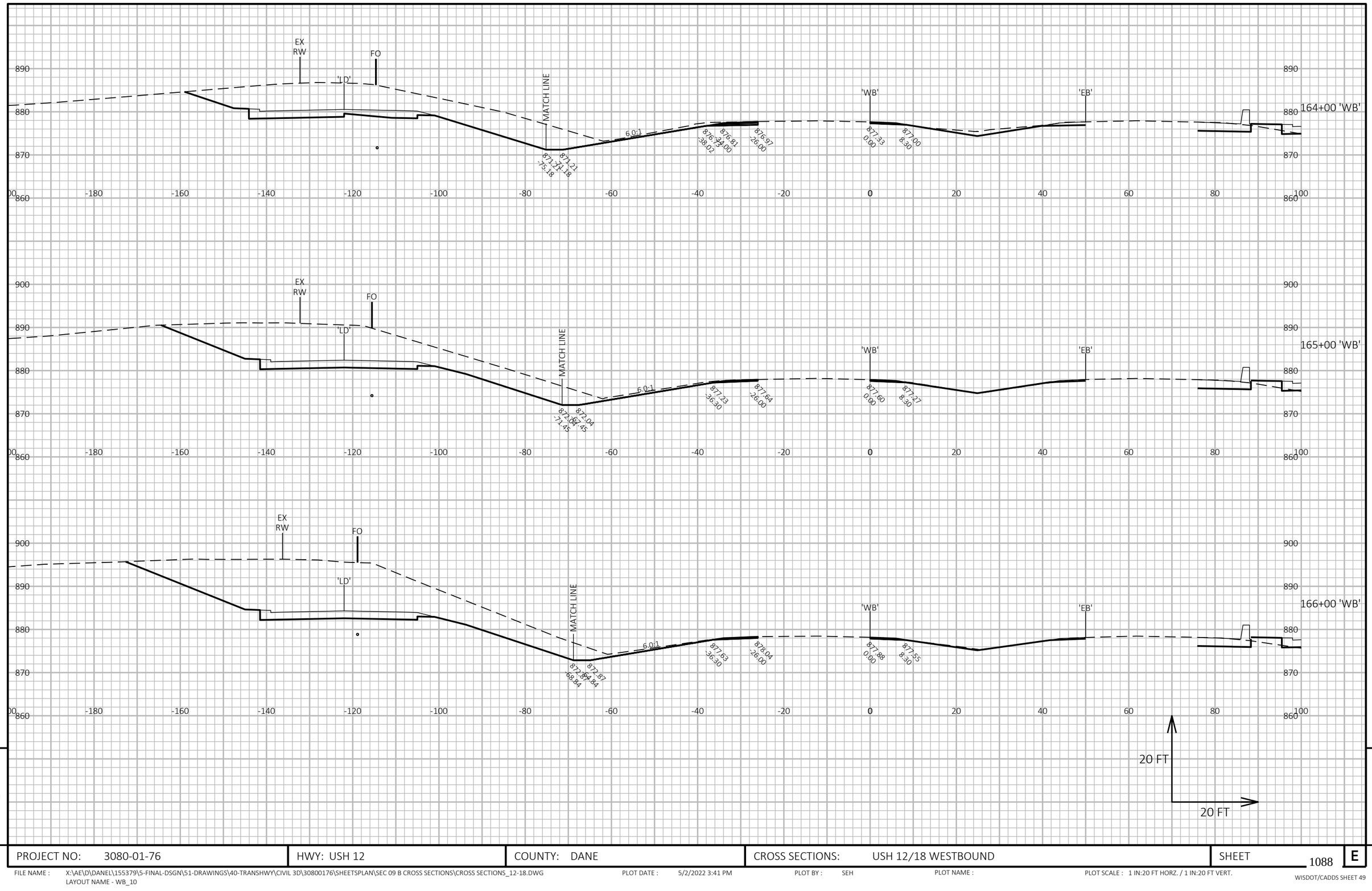
PLOT DATE : 5/2/2022 3:40 PM

PLOT BY : SEH

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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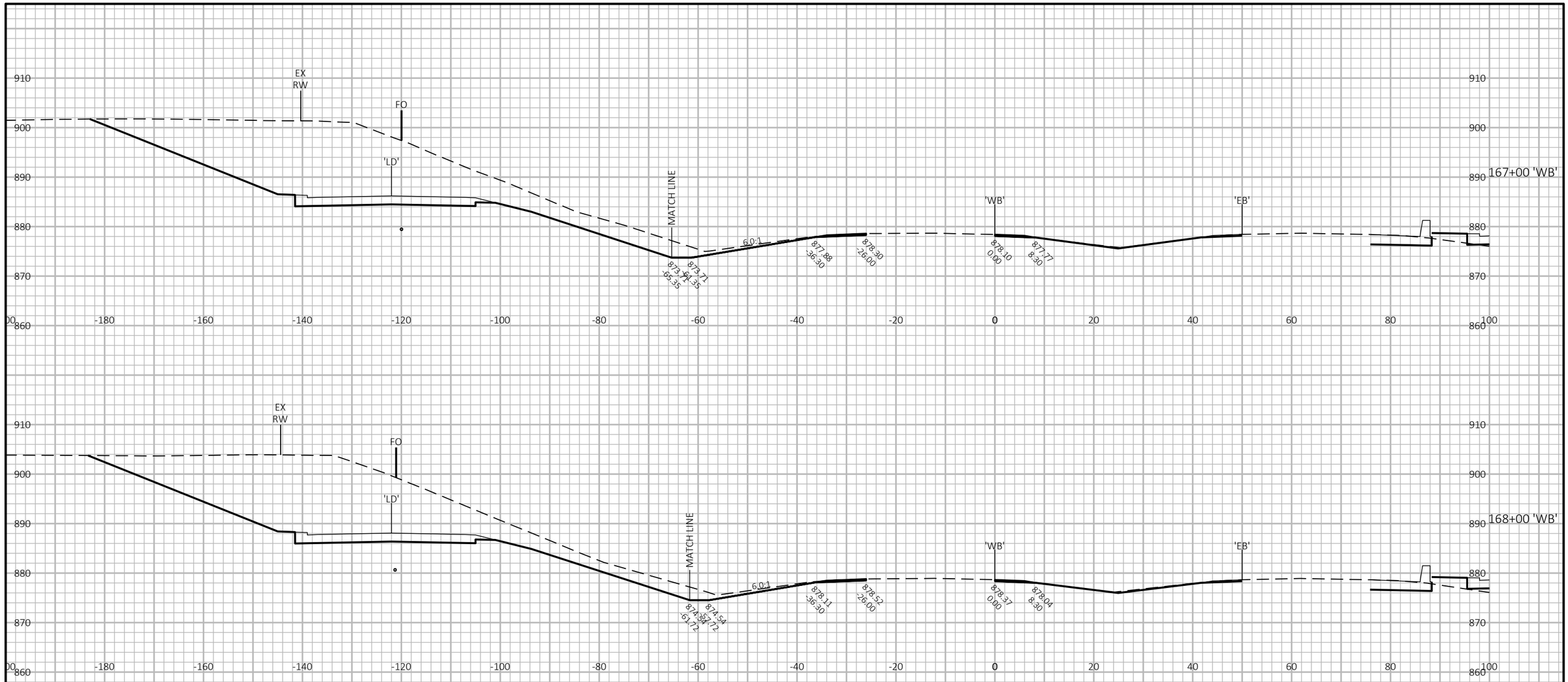
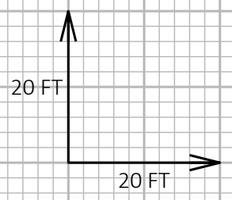
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1088	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_10

PLOT DATE : 5/2/2022 3:41 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.





9

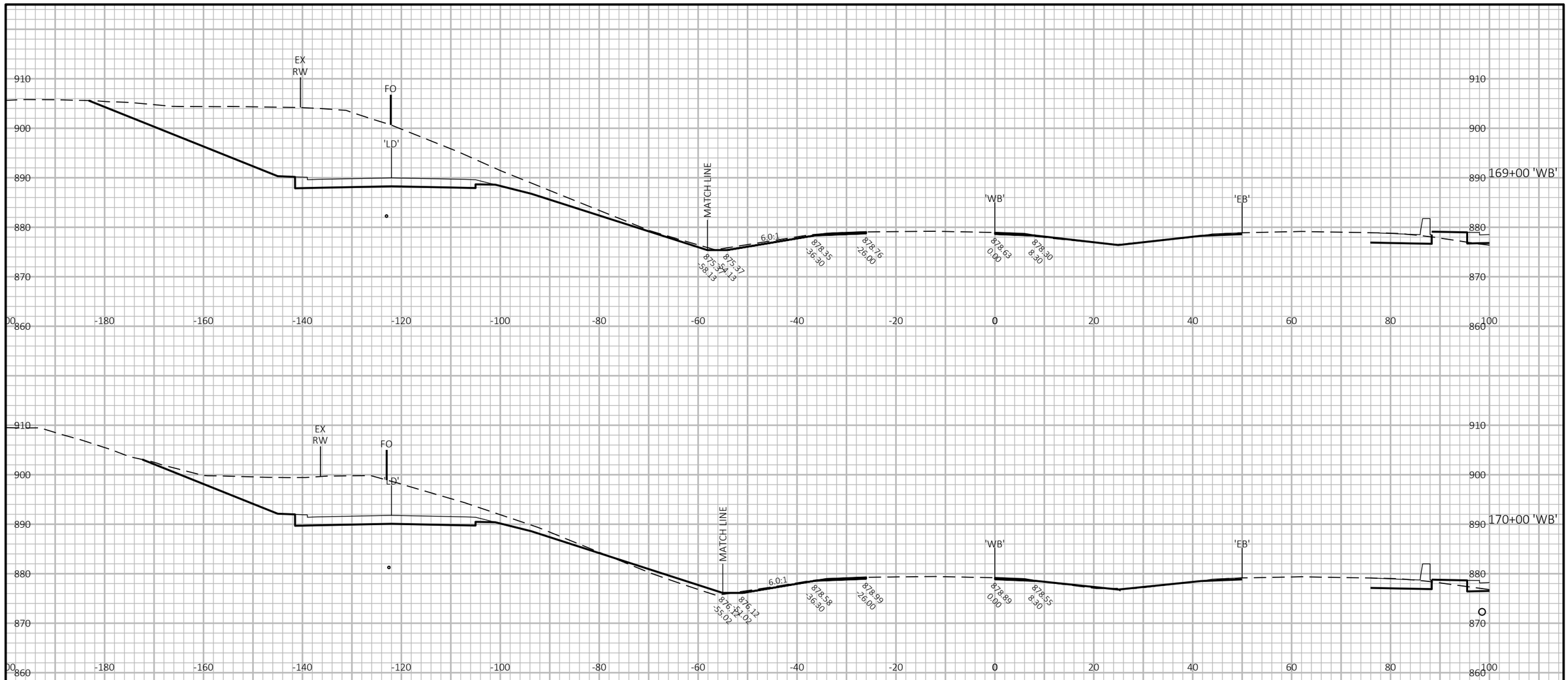
9

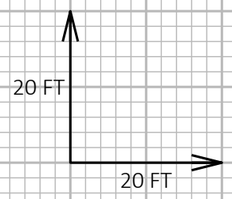
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1089	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_11

PLOT DATE : 5/2/2022 3:41 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49





9

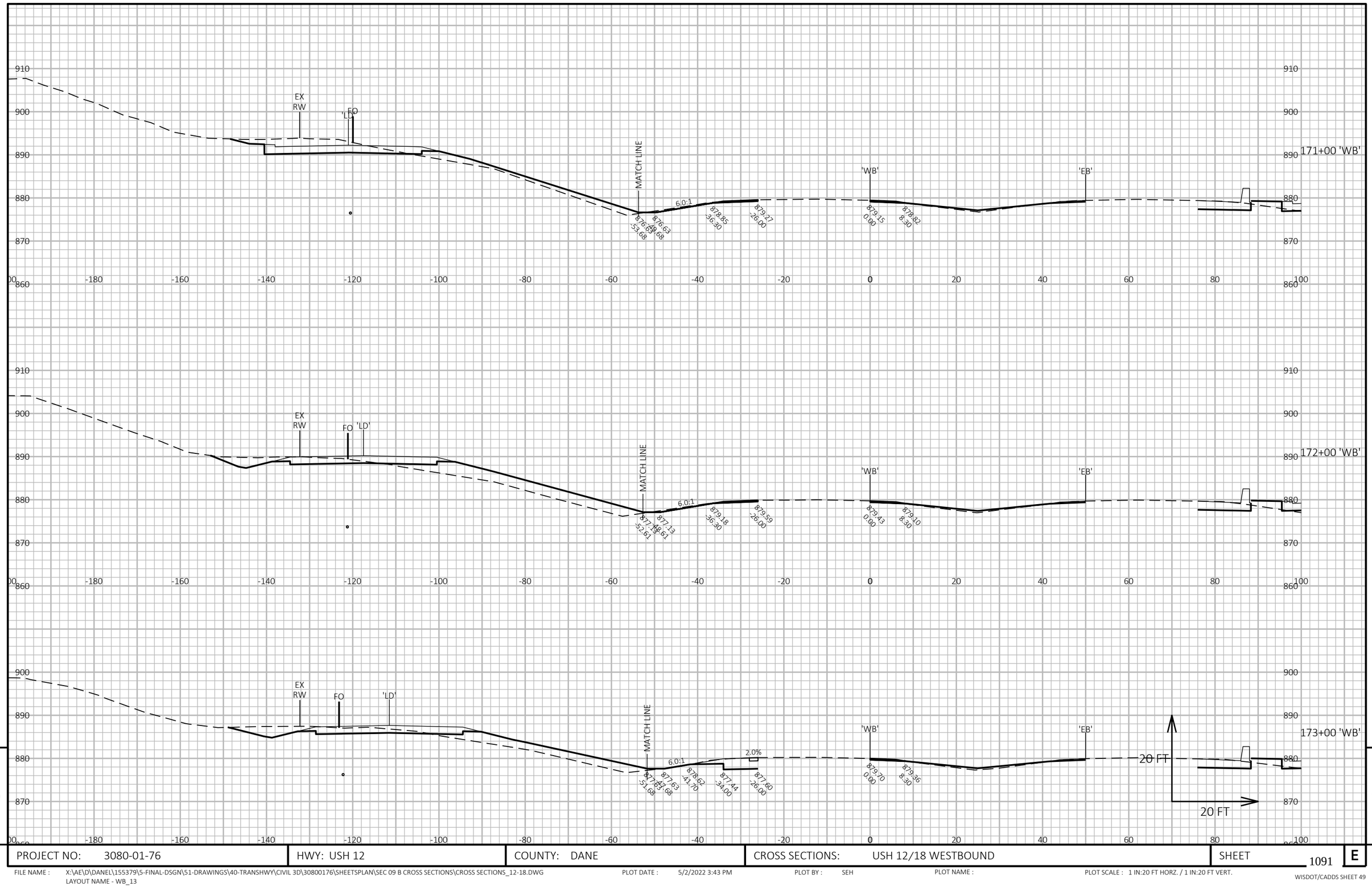
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1090	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_12

PLOT DATE : 5/2/2022 3:42 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1091	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_13

PLOT DATE : 5/2/2022 3:43 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1092	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_14

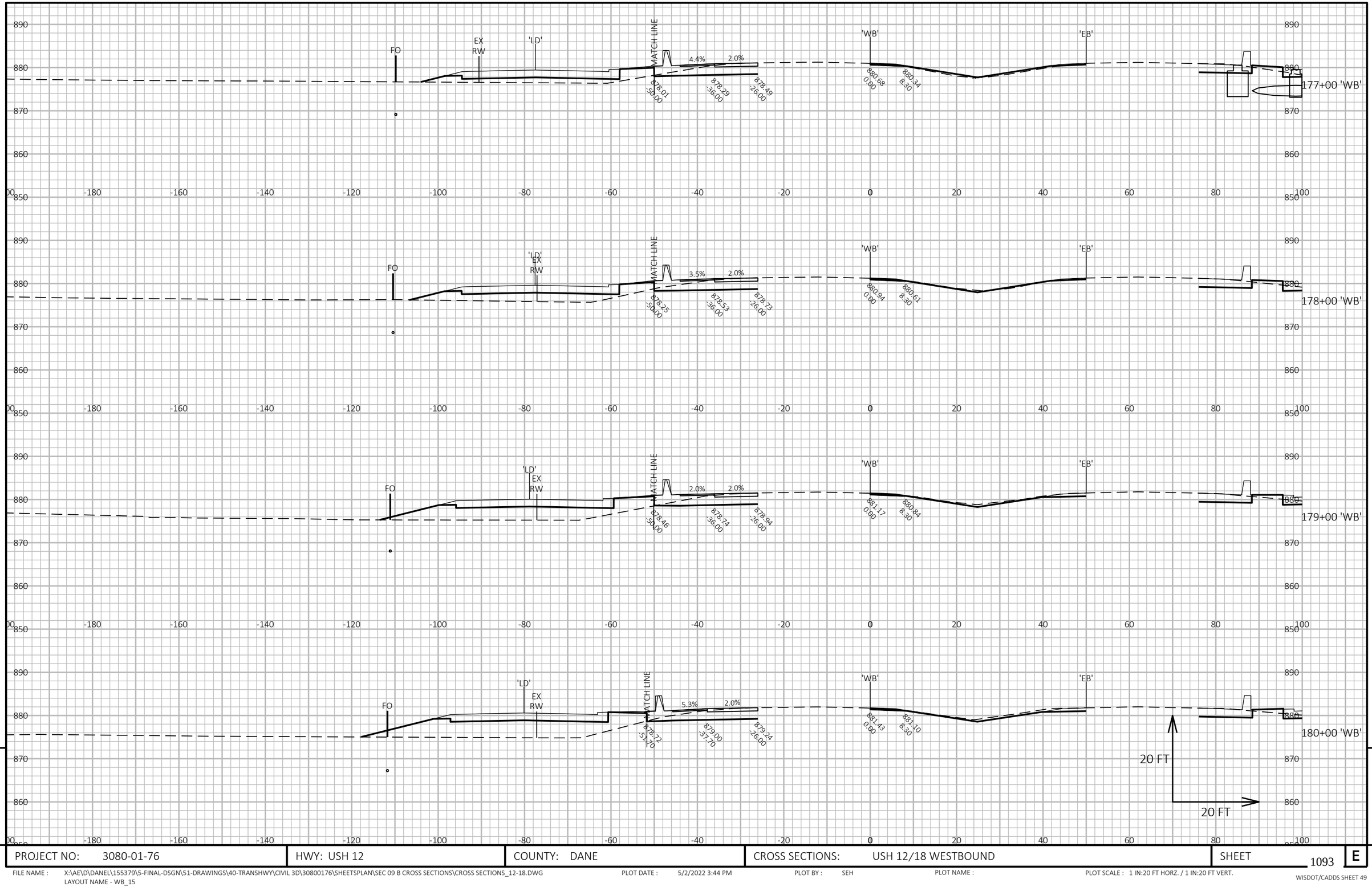
PLOT DATE : 5/2/2022 3:44 PM

PLOT BY : SEH

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

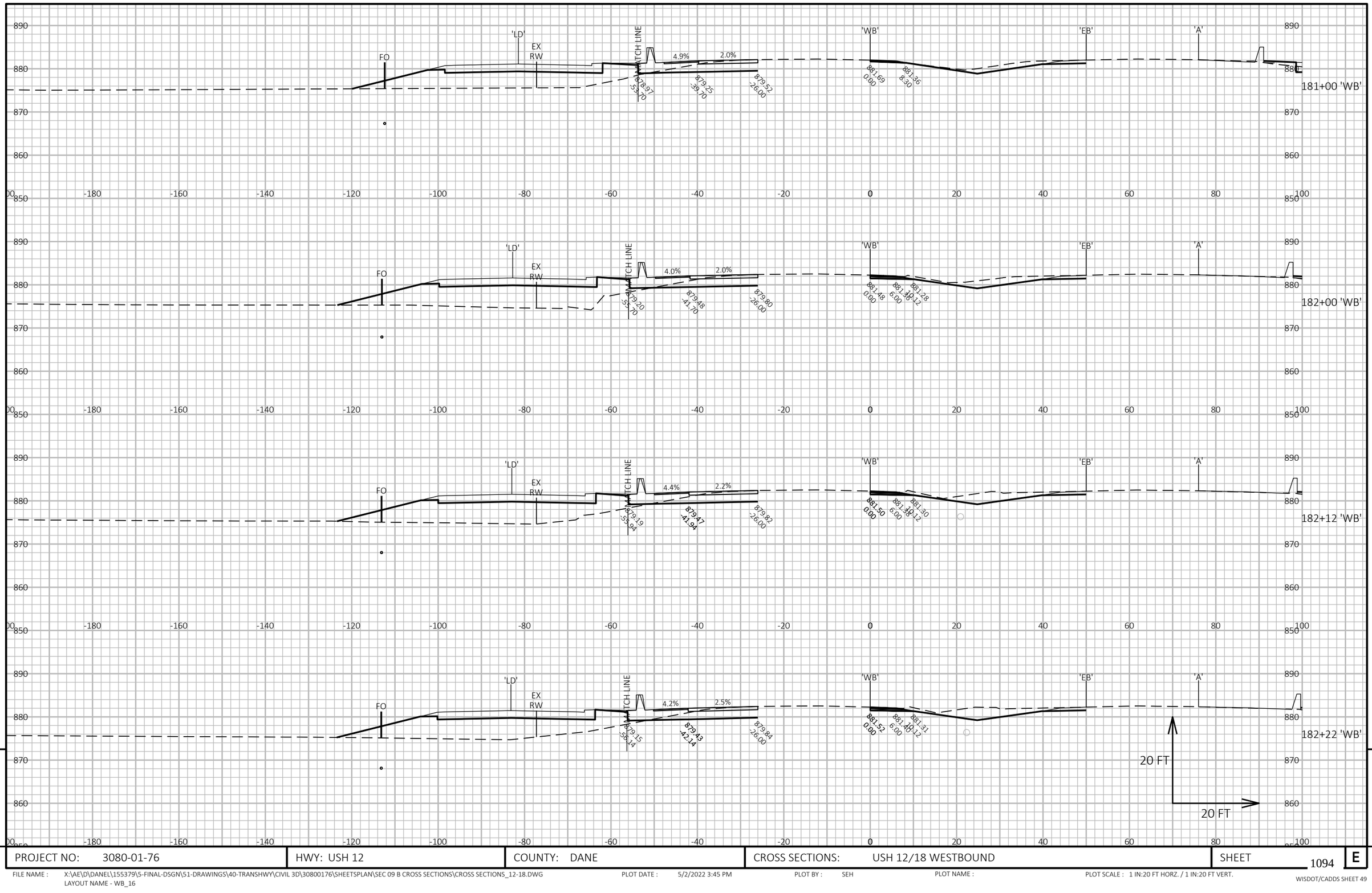


9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1093	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_15
PLOT DATE : 5/2/2022 3:44 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1094	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_16

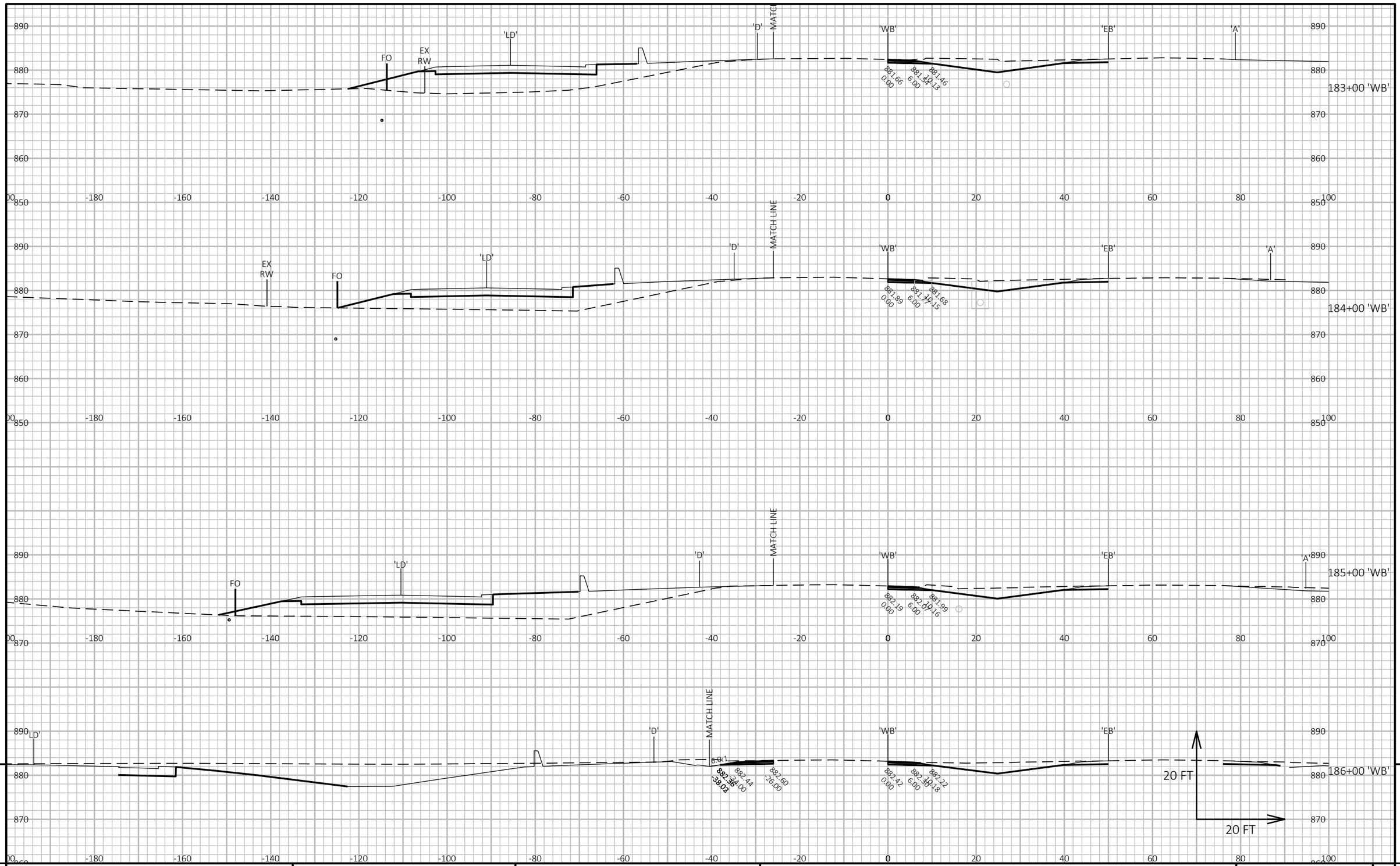
PLOT DATE : 5/2/2022 3:45 PM

PLOT BY : SEH

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1095	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_17

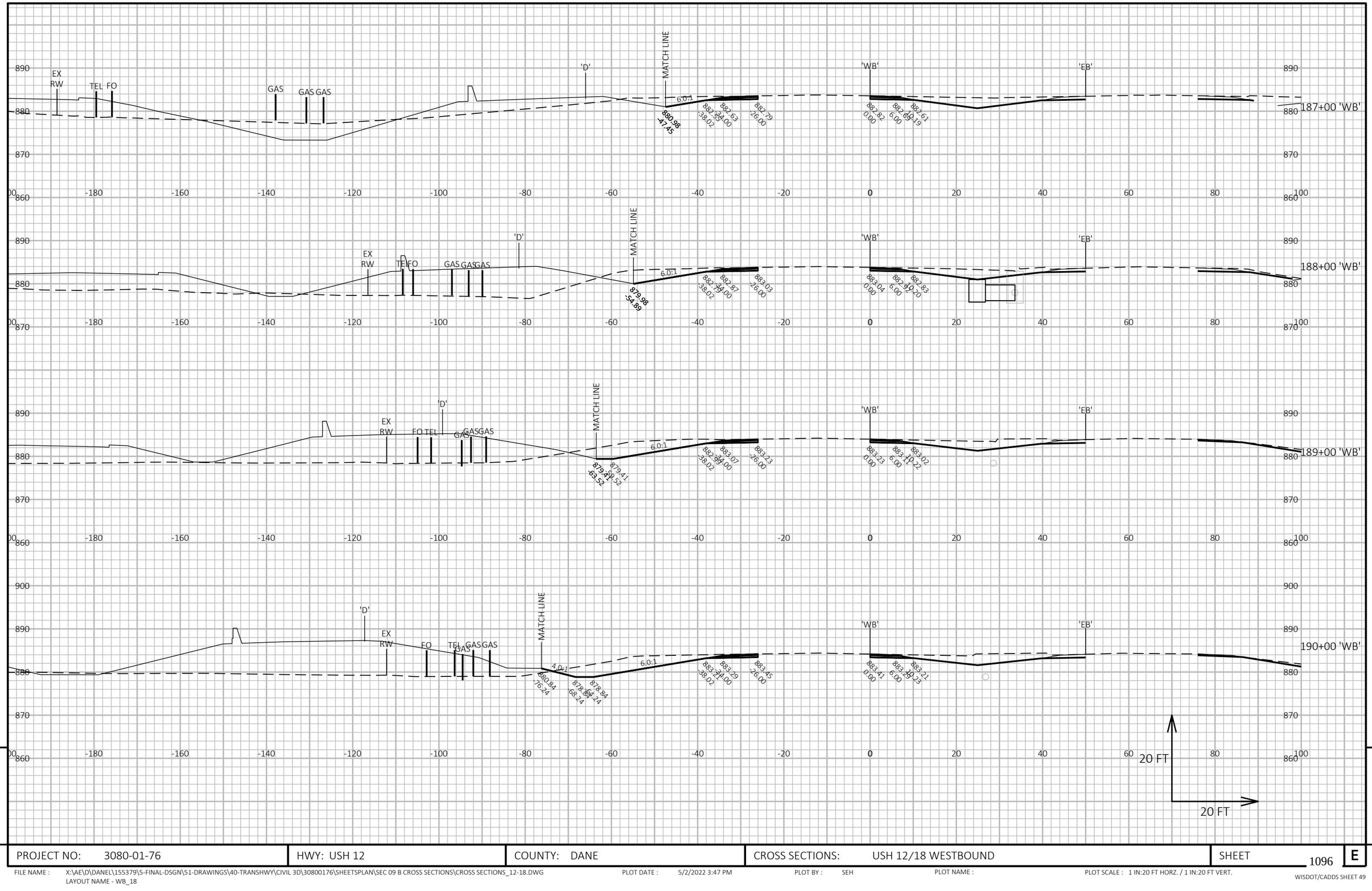
PLOT DATE : 5/2/2022 3:46 PM

PLOT BY : SEH

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

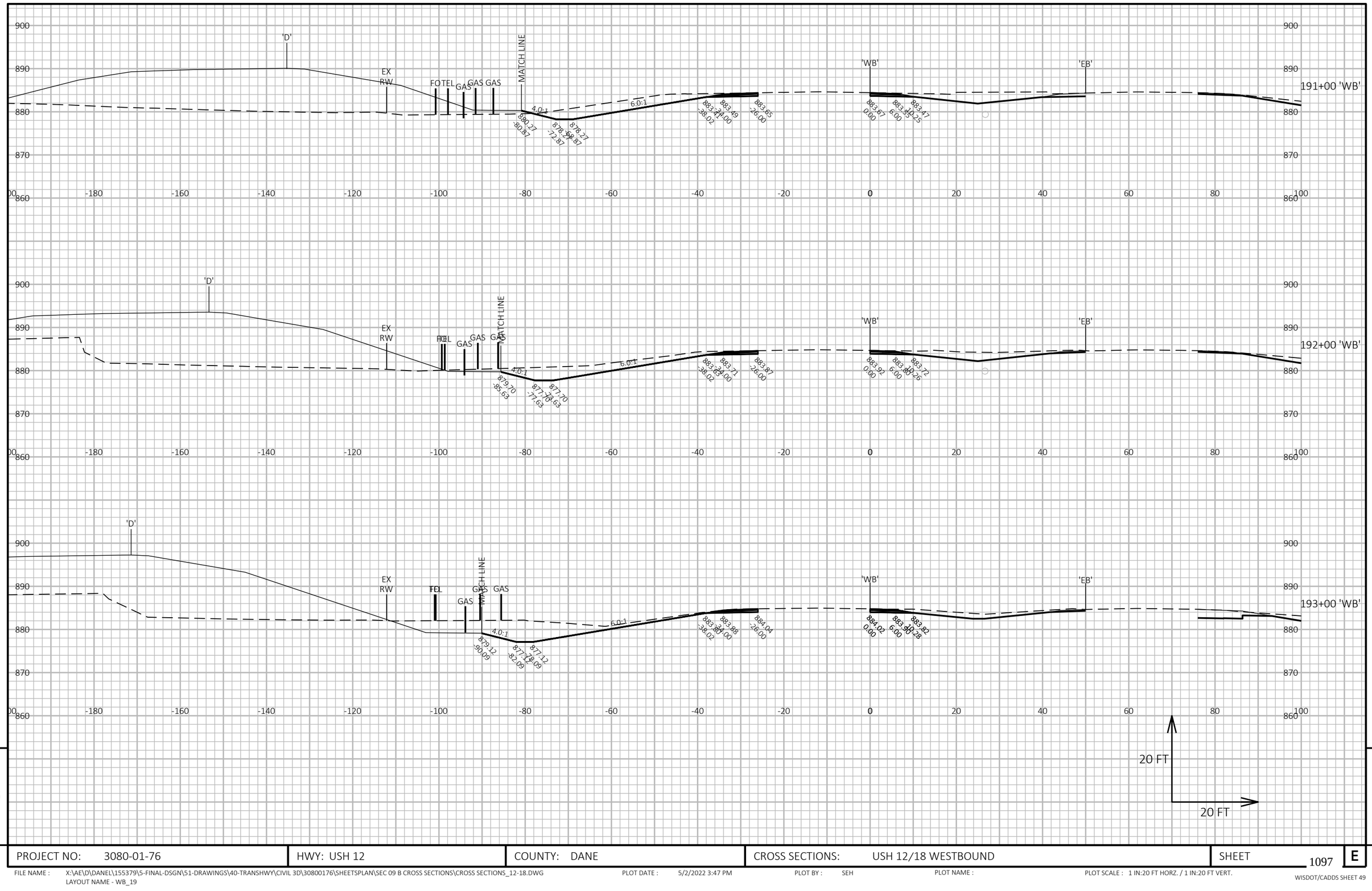


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1096	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_18

PLOT DATE : 5/2/2022 3:47 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1097	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_19

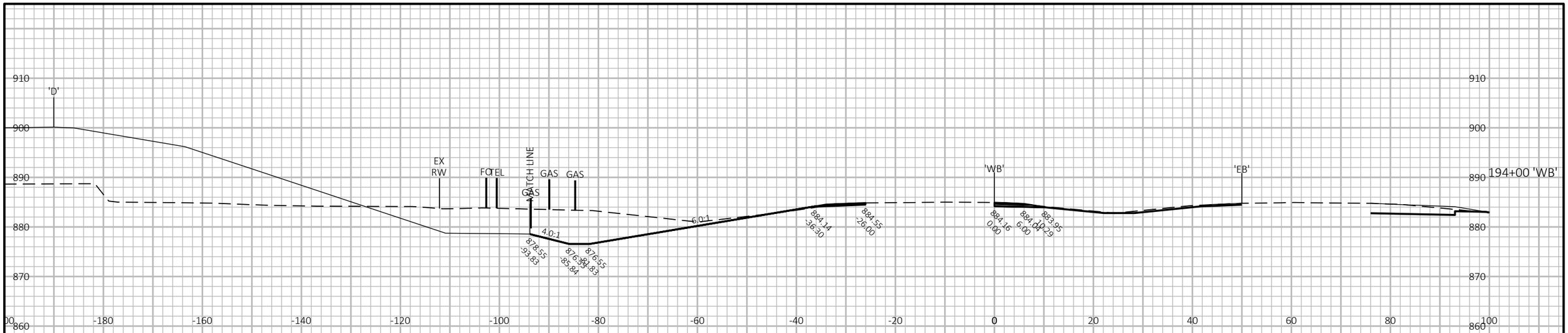
PLOT DATE : 5/2/2022 3:47 PM

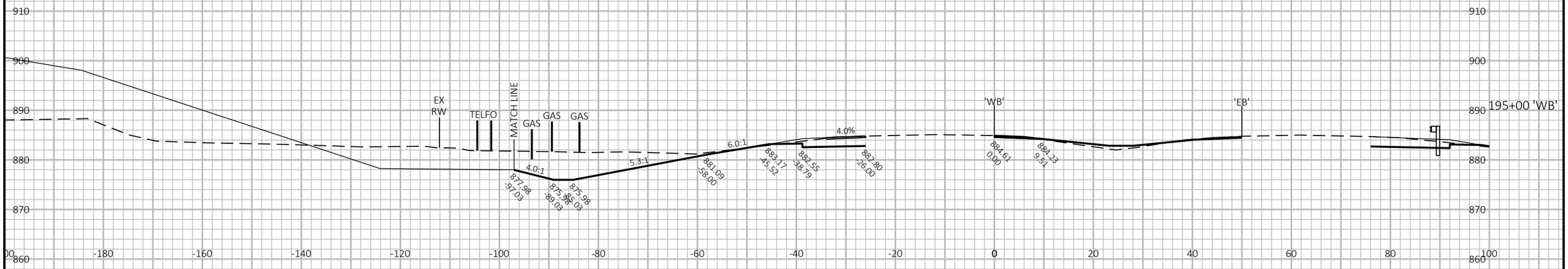
PLOT BY : SEH

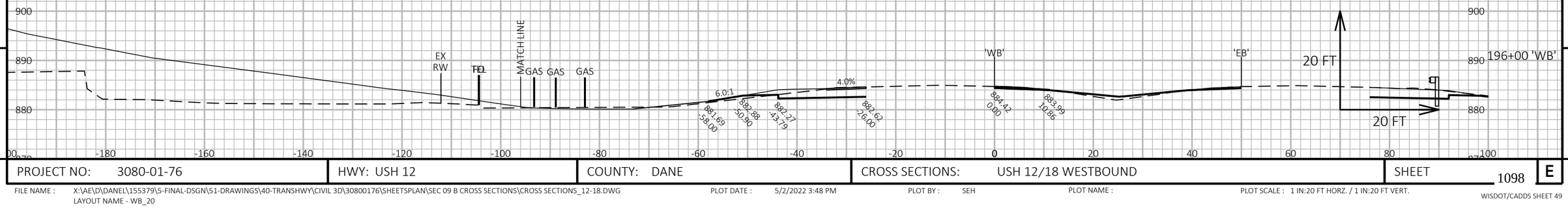
PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49







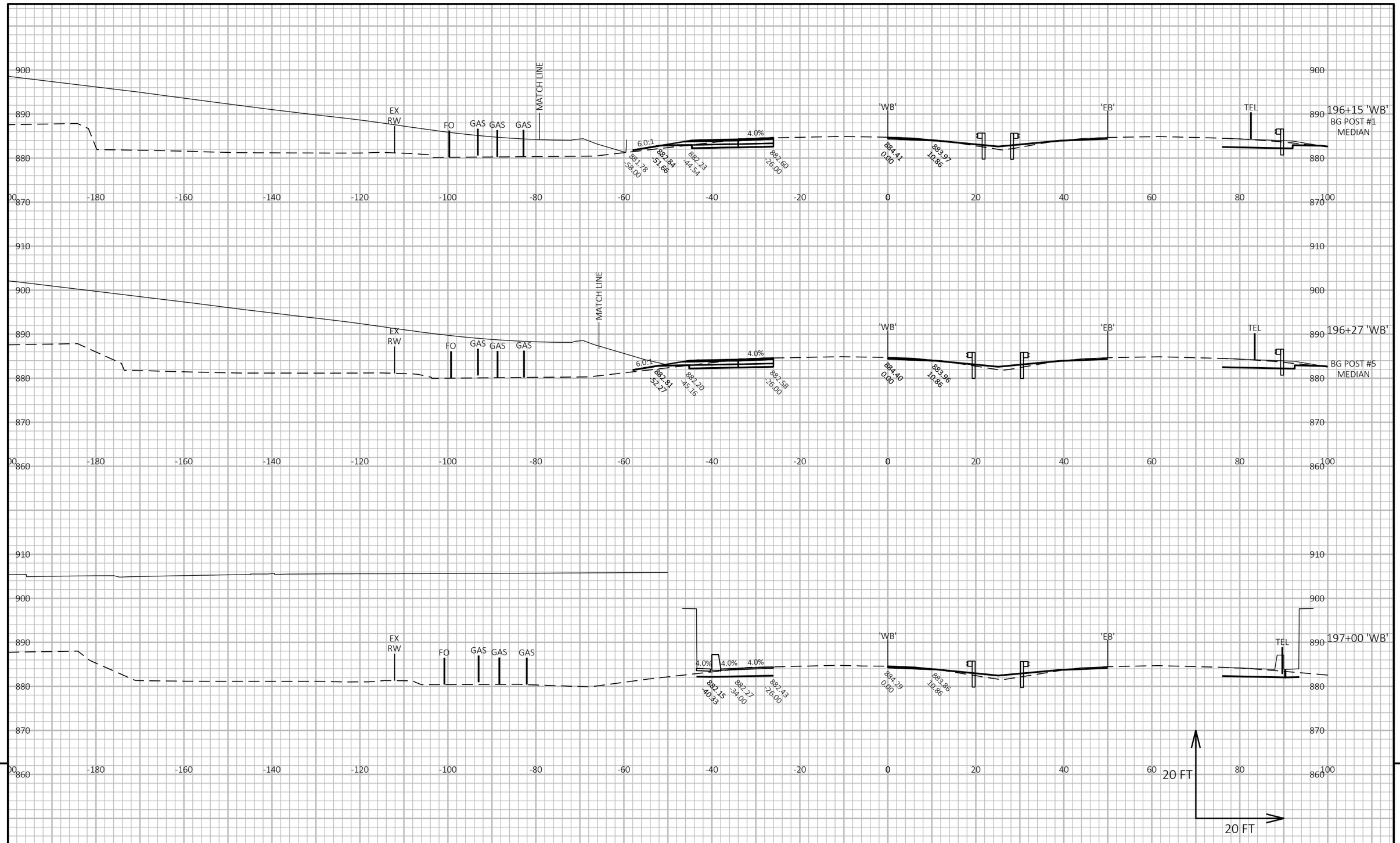
9 9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1098	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_20

PLOT DATE : 5/2/2022 3:48 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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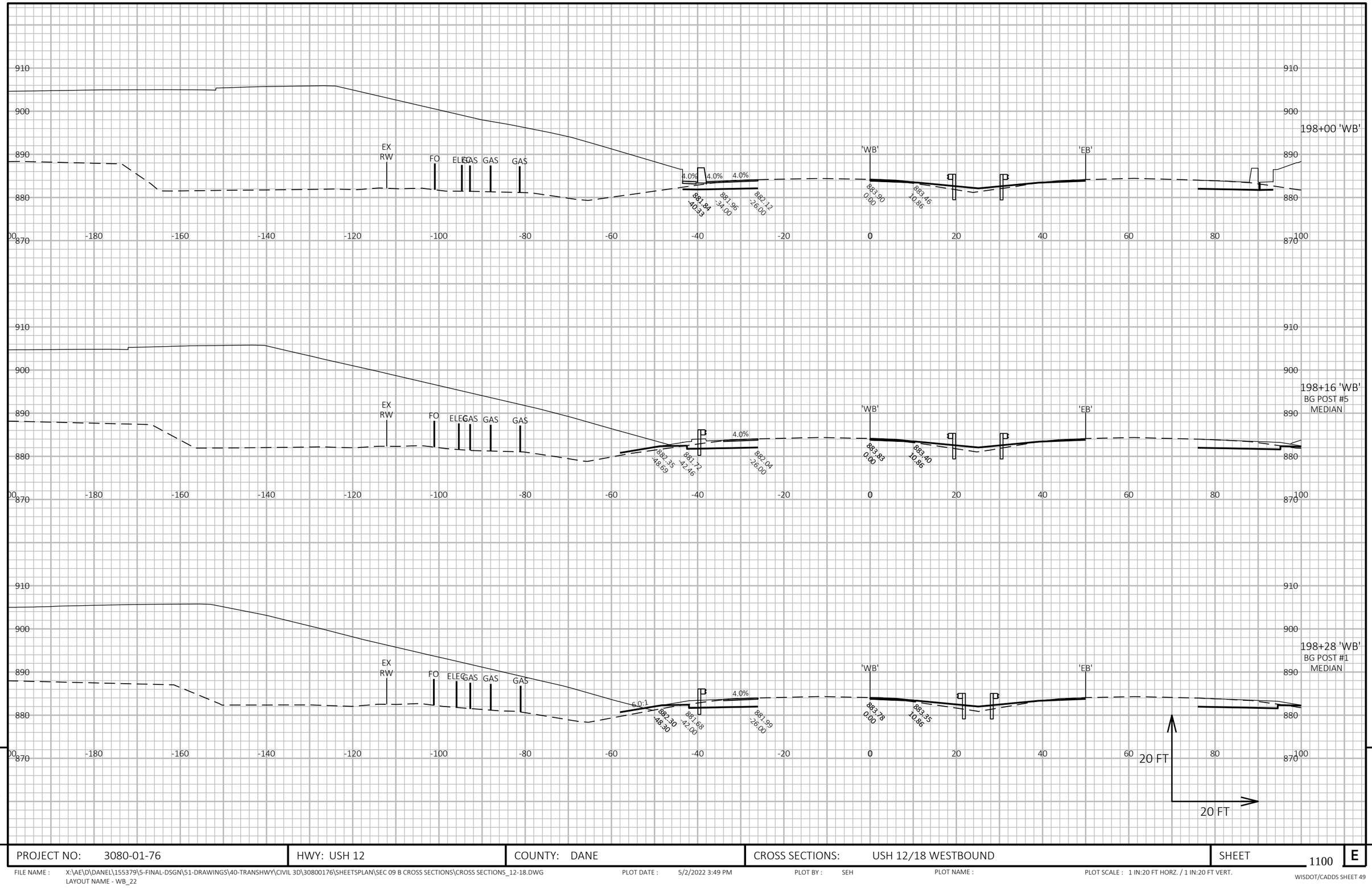
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1099	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_21

PLOT DATE : 5/2/2022 3:49 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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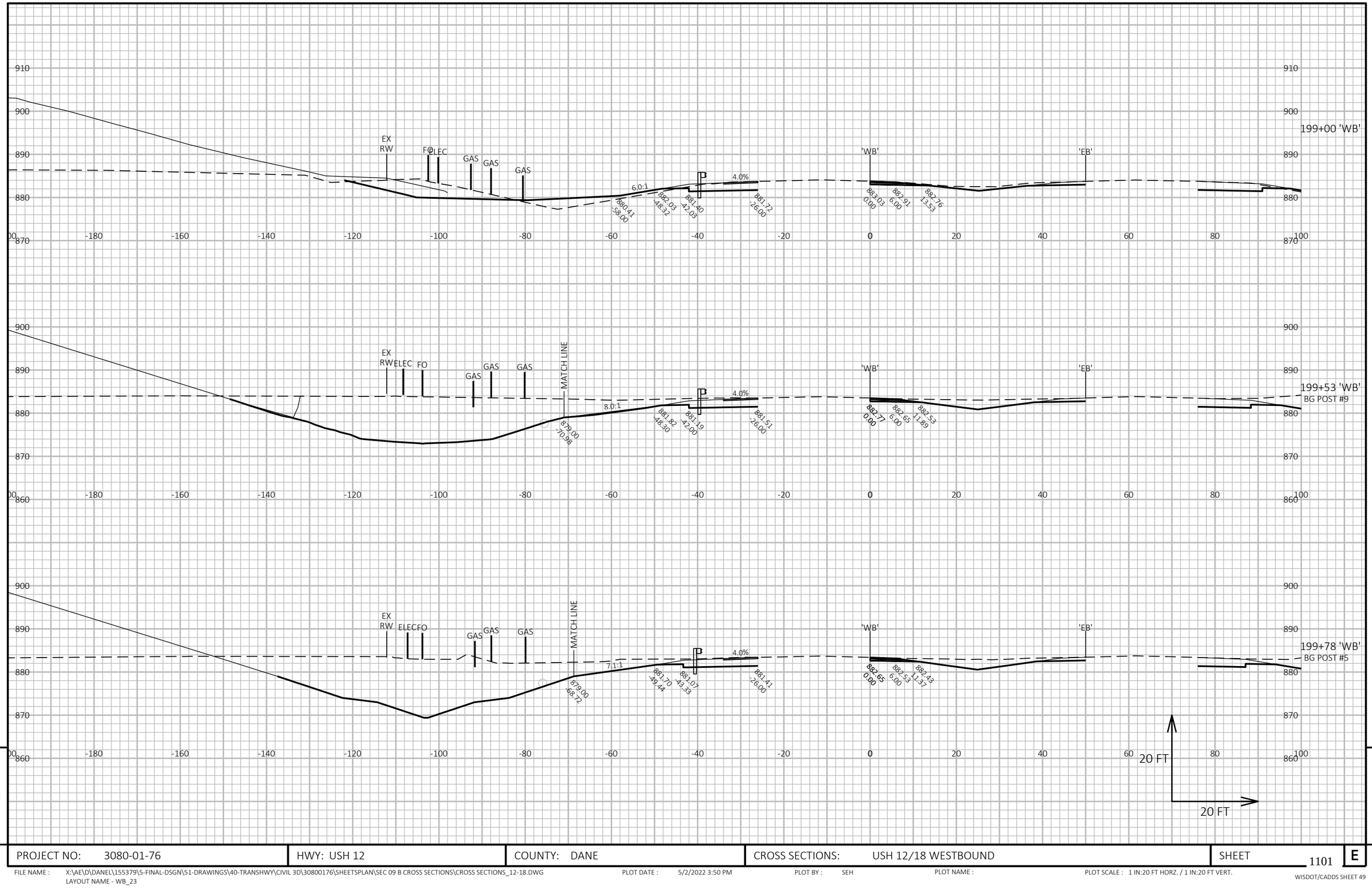
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1100	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_22

PLOT DATE : 5/2/2022 3:49 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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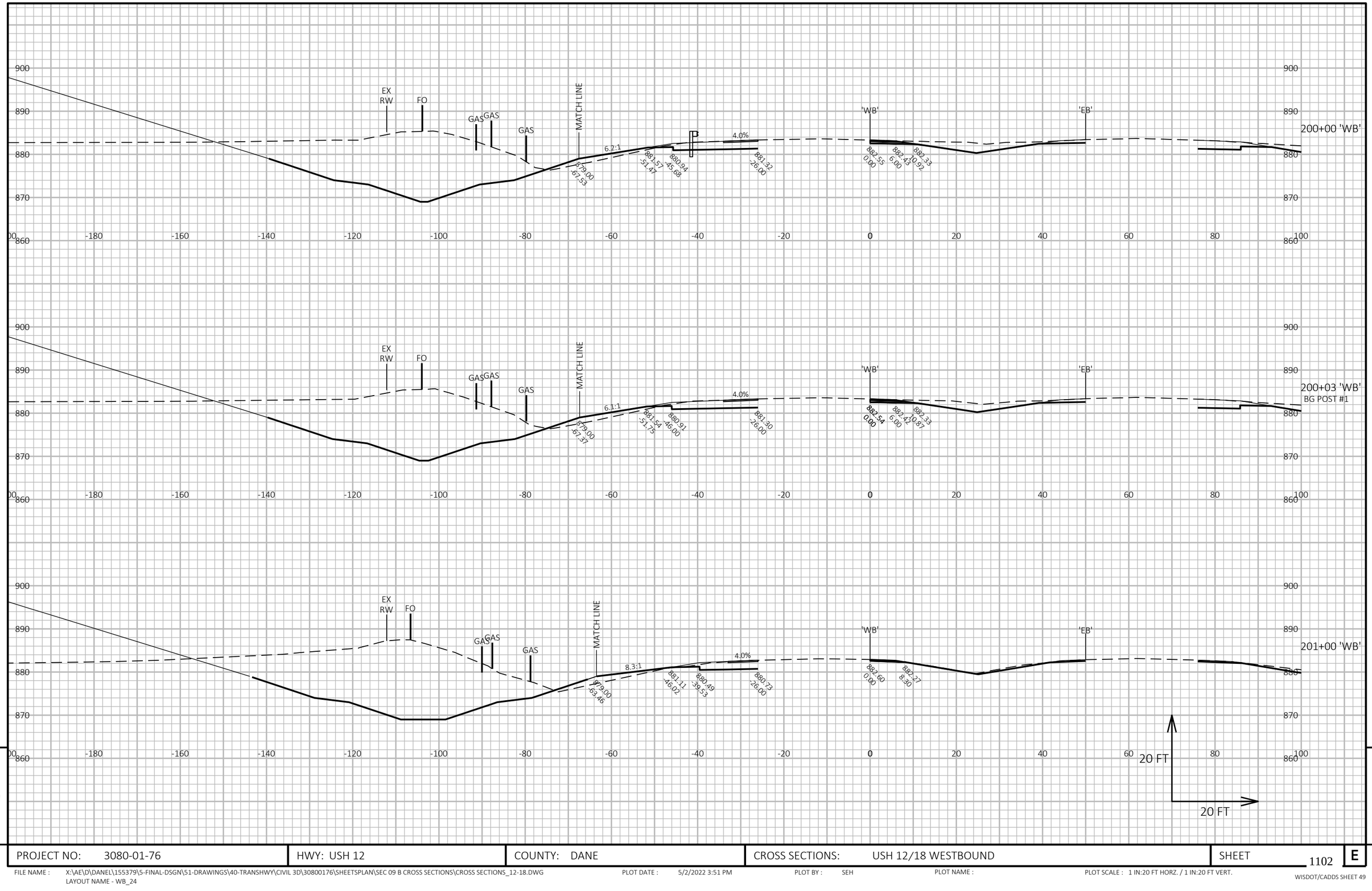
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1101	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_23

PLOT DATE : 5/2/2022 3:50 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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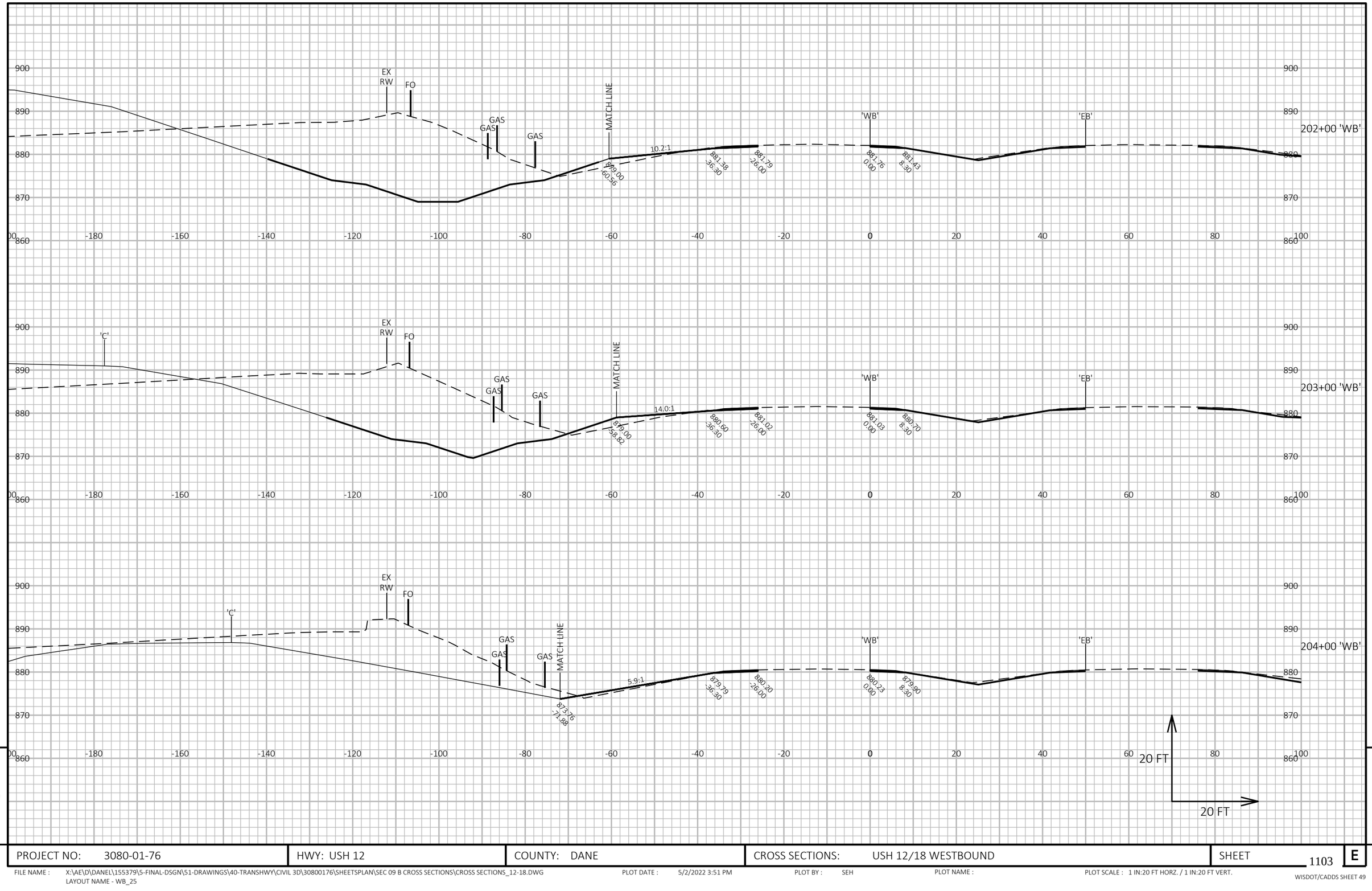
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1102	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_24

PLOT DATE : 5/2/2022 3:51 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

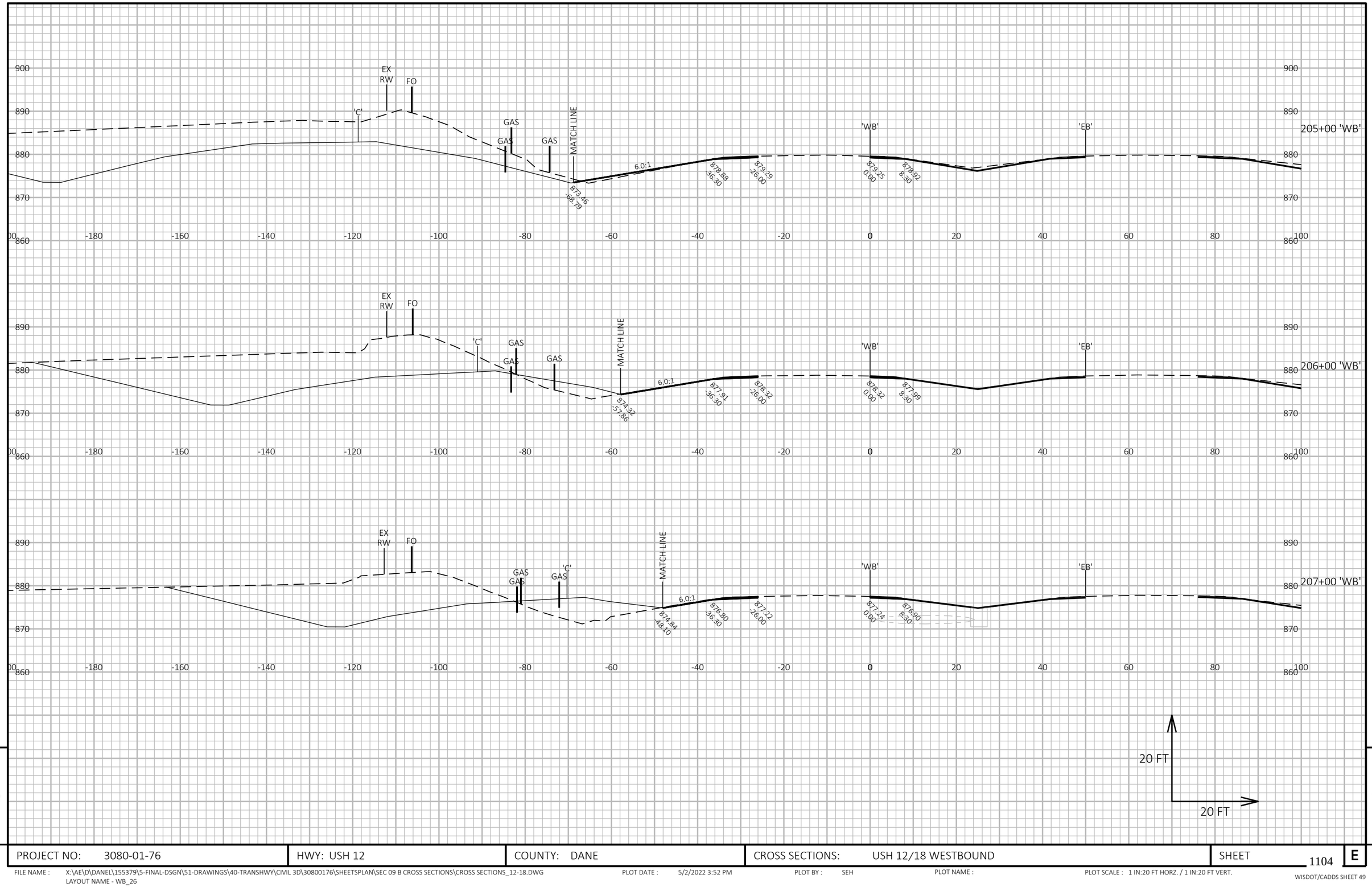


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1103 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_25

PLOT DATE : 5/2/2022 3:51 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

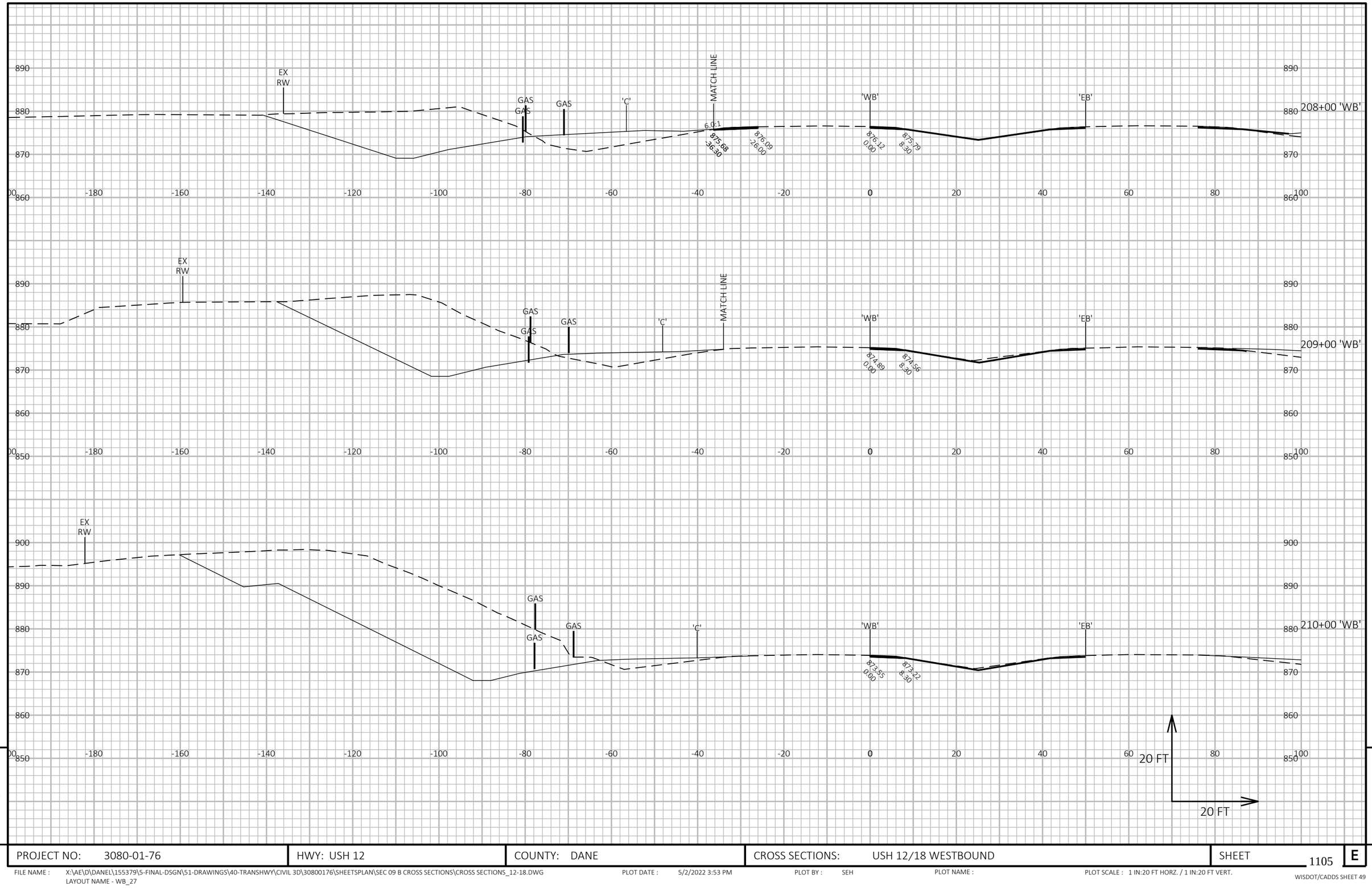


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1104	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_26

PLOT DATE : 5/2/2022 3:52 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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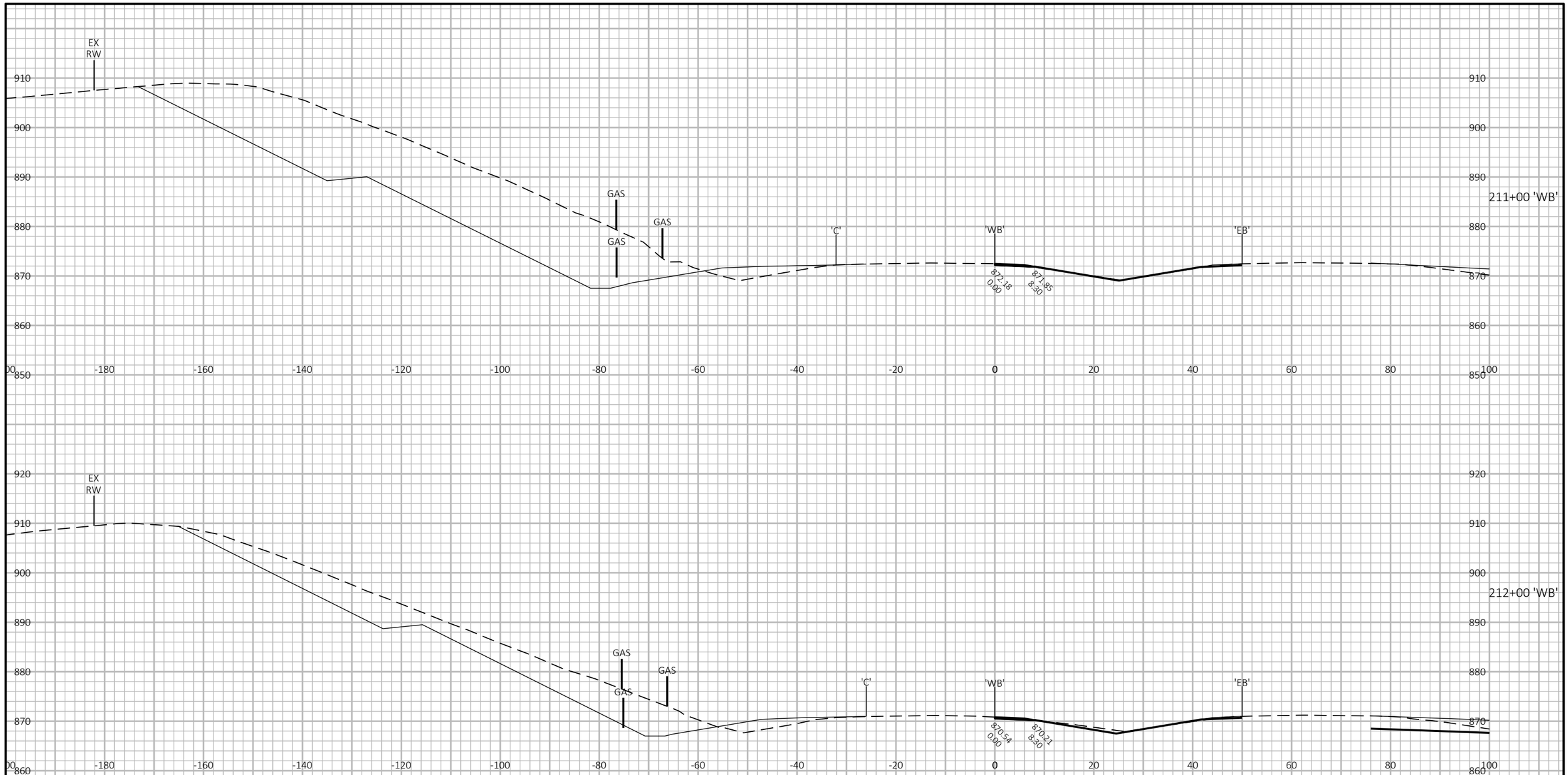
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1105	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_27

PLOT DATE : 5/2/2022 3:53 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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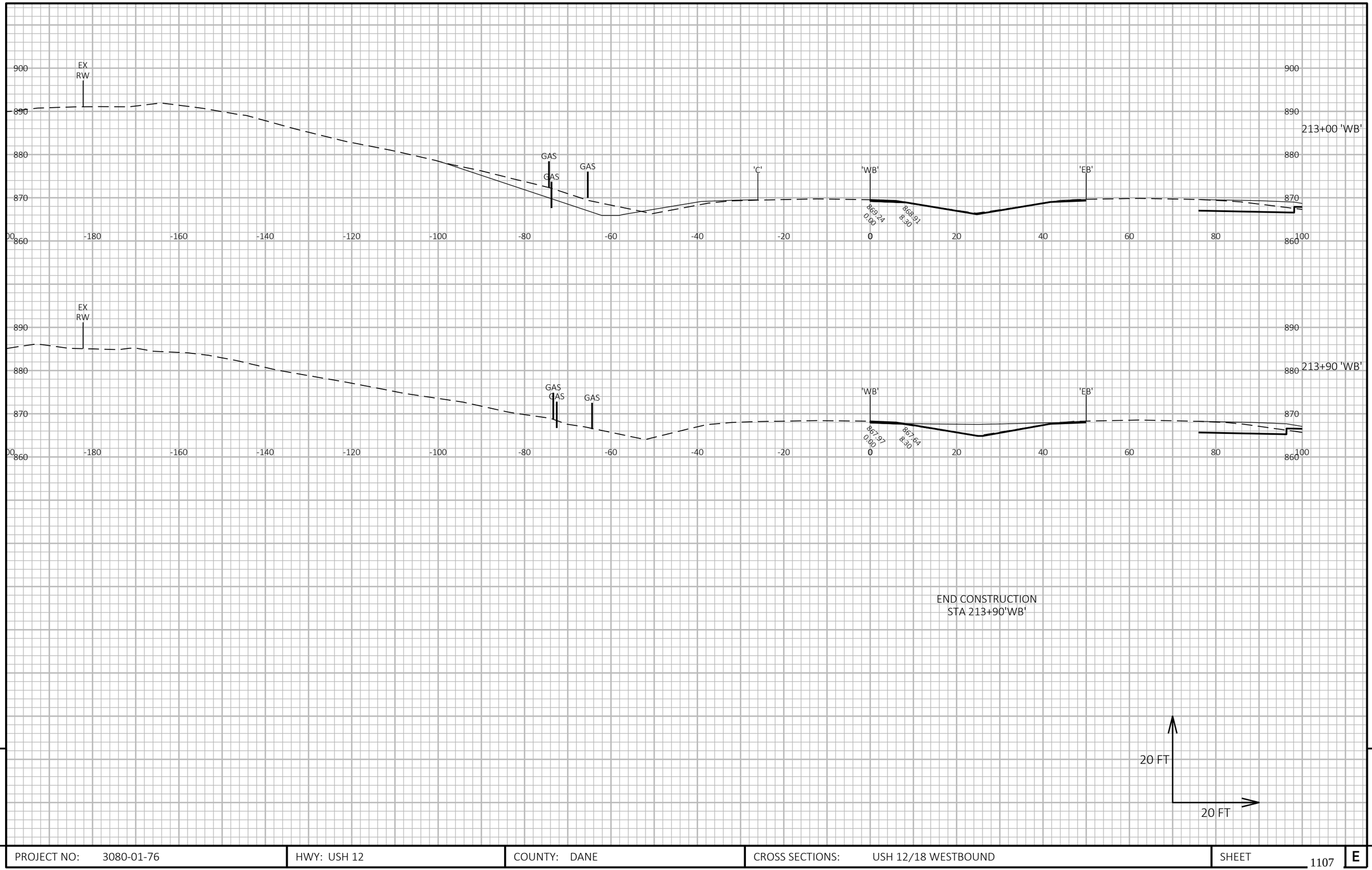
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1106	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_28

PLOT DATE : 5/2/2022 3:54 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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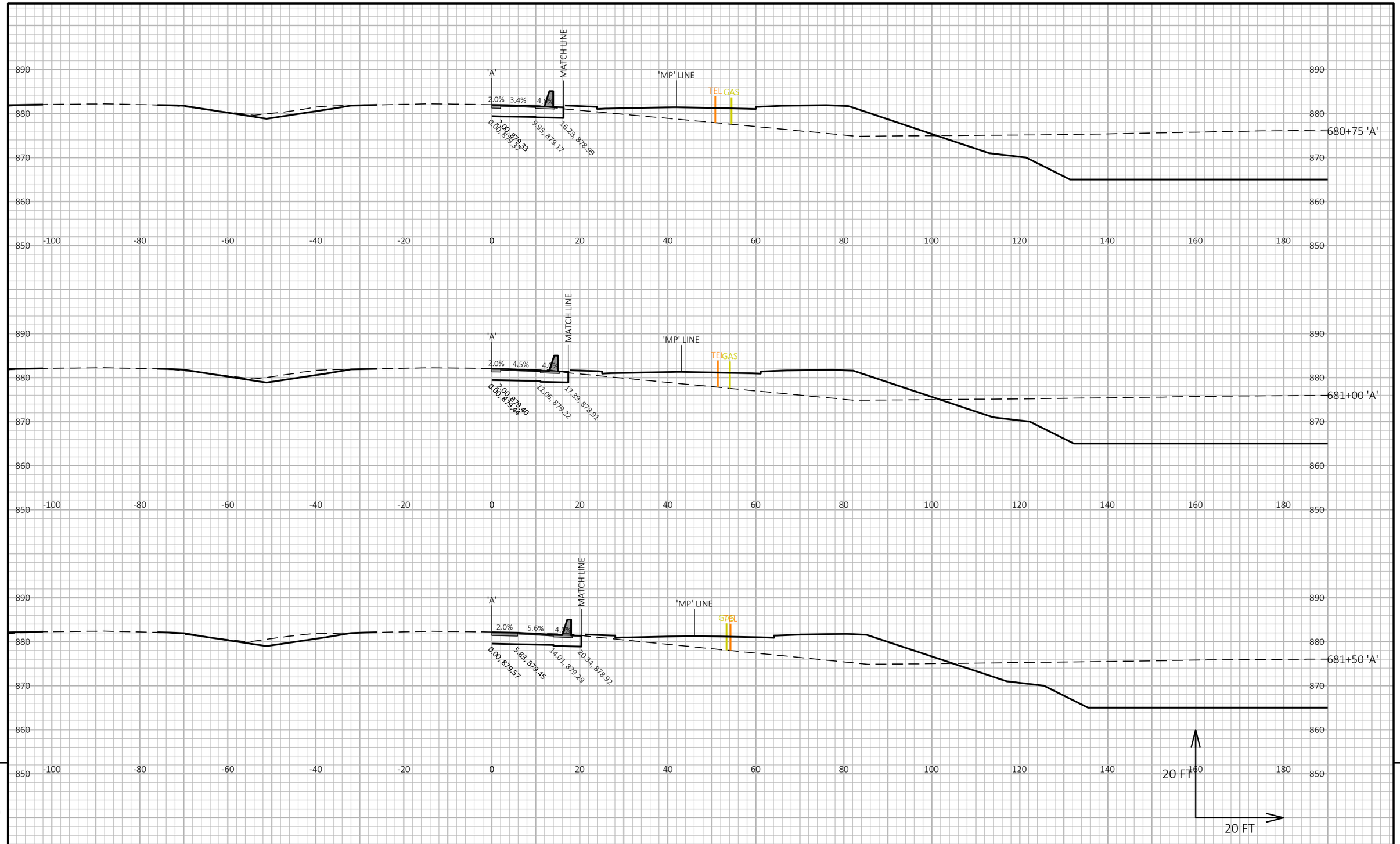
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 WESTBOUND	SHEET 1107	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_12-18.DWG
LAYOUT NAME - WB_29

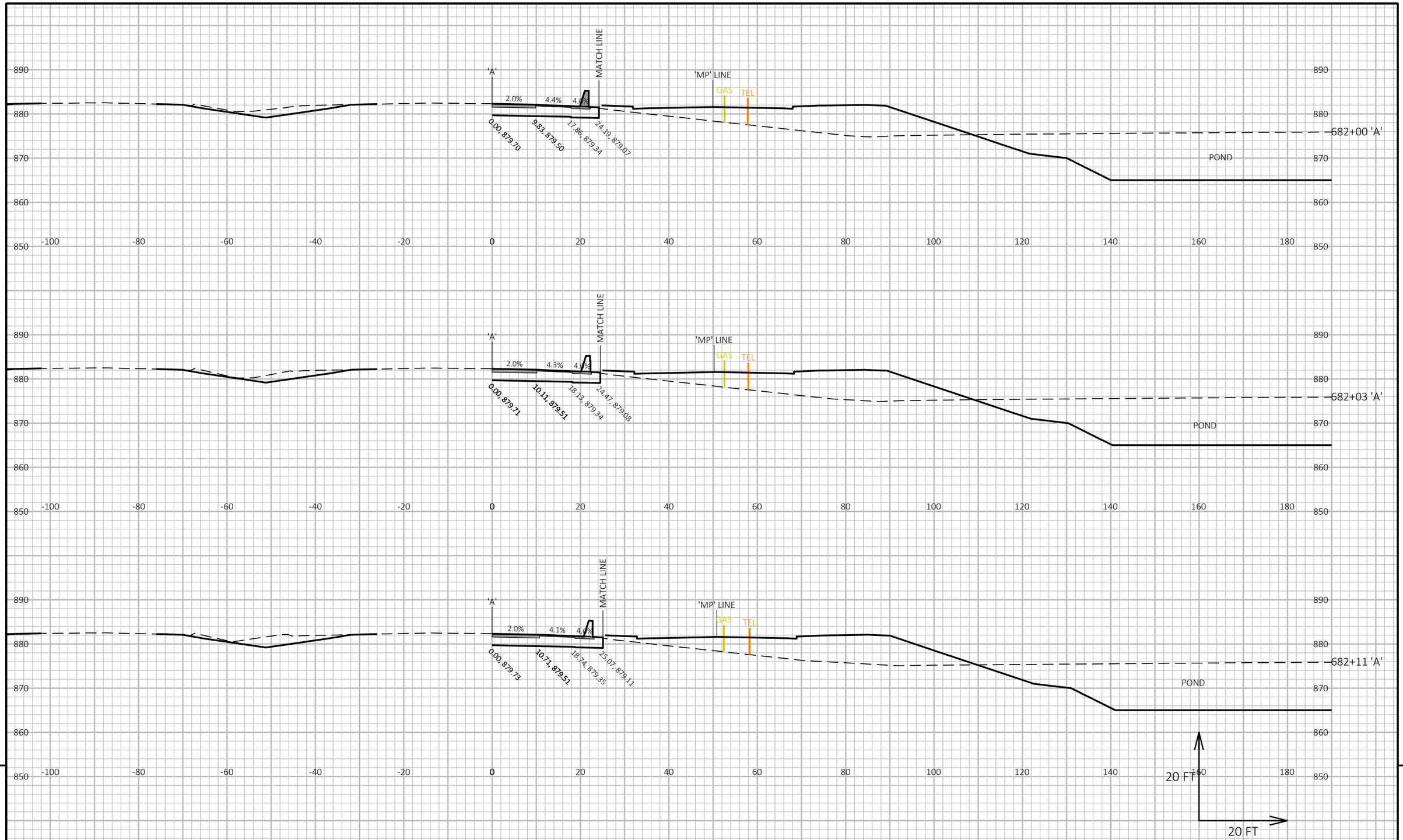
PLOT DATE : 5/2/2022 3:54 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1108	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203A-XS_RAMP A (EB EXIT).DWG
LAYOUT NAME - rmpa-xs_01

PLOT DATE : 1/10/2022 11:54 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

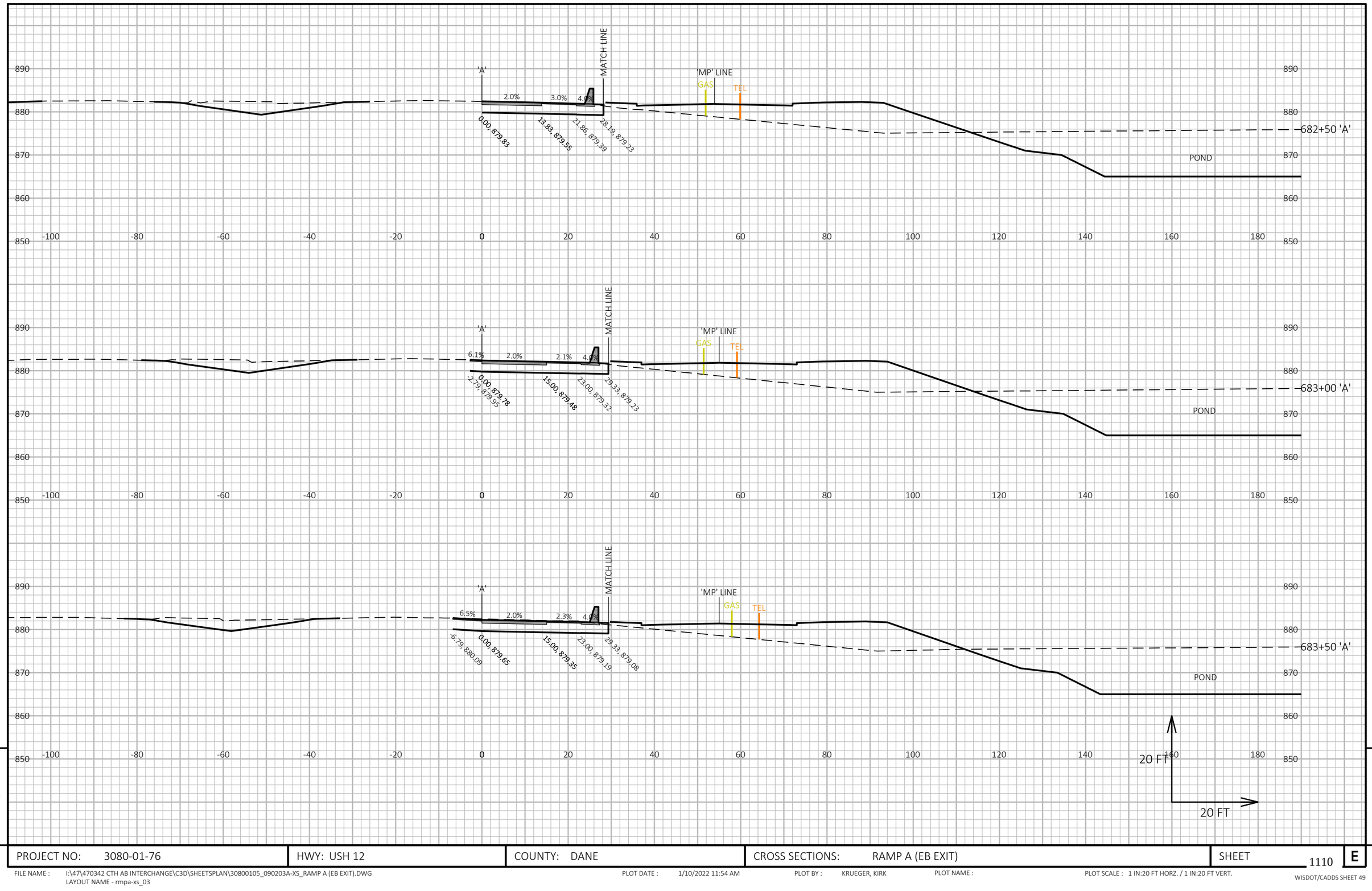


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1109	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203A-XS_RAMP A (EB EXIT).DWG
LAYOUT NAME - rmpa-xs_02

PLOT DATE : 1/10/2022 11:54 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1110	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203A-XS_RAMP A (EB EXIT).DWG
LAYOUT NAME - rmpa-xs_03

PLOT DATE : 1/10/2022 11:54 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

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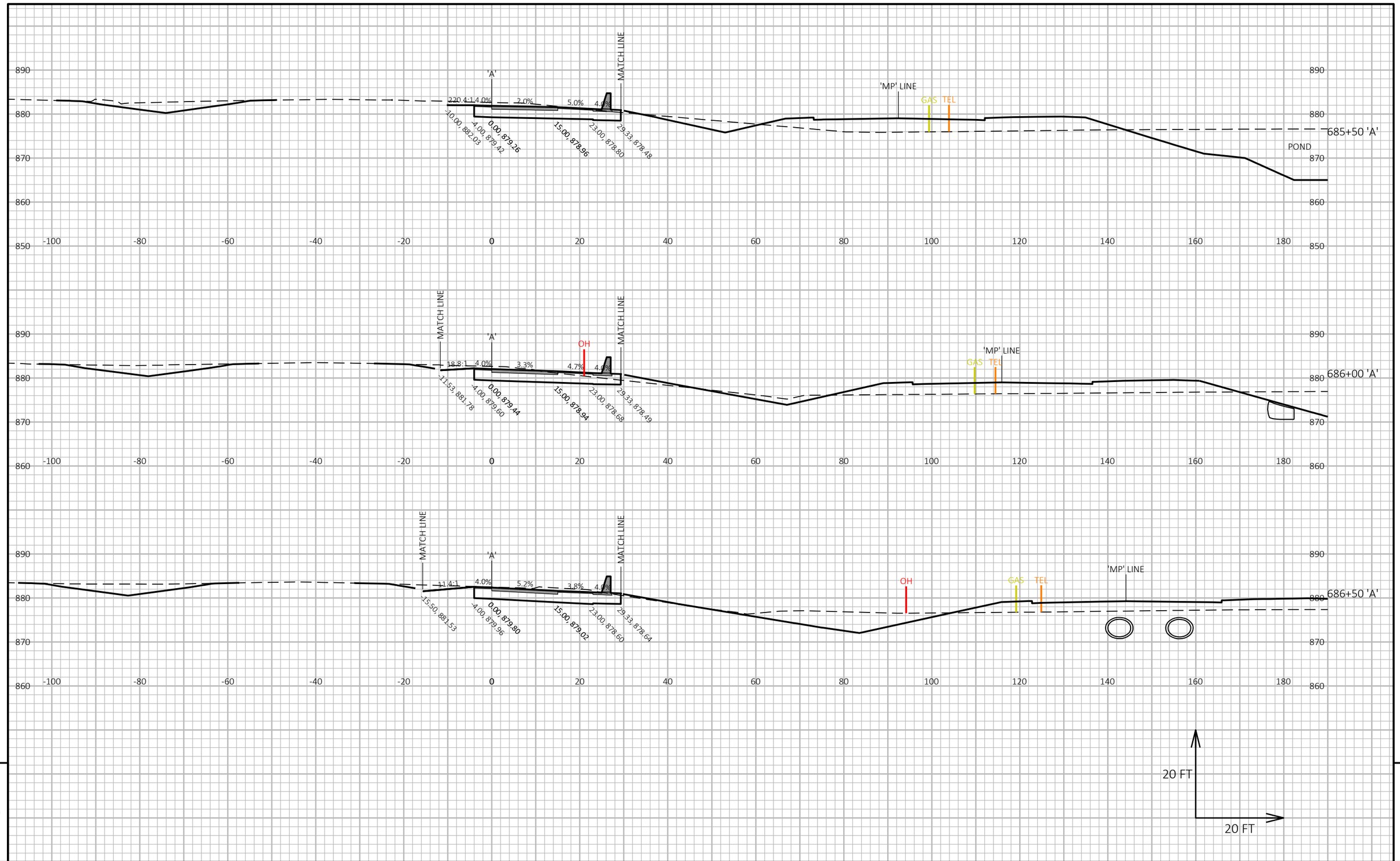
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1111	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203A-XS_RAMP A (EB EXIT).DWG
LAYOUT NAME - rmpa-xs_04

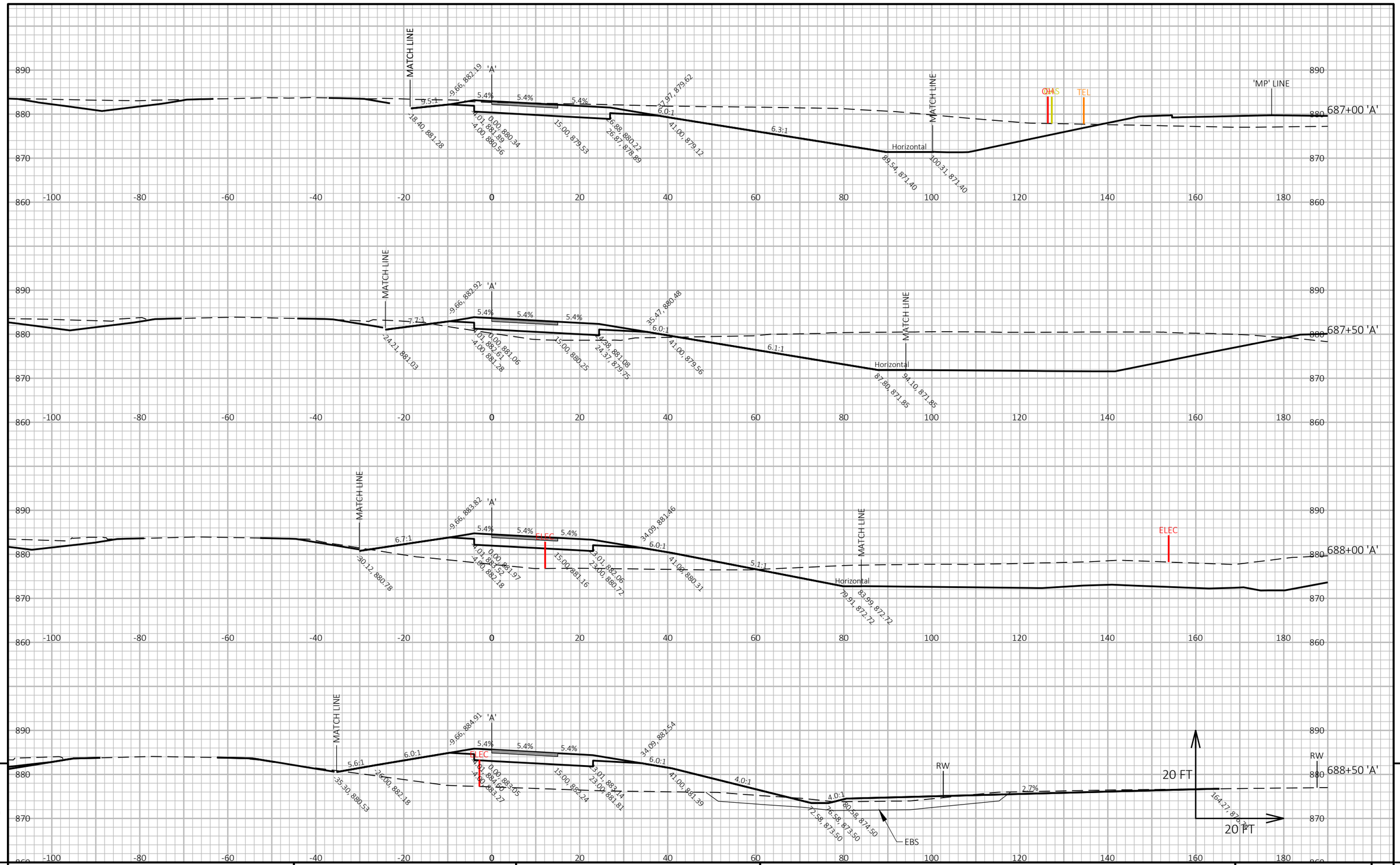
PLOT DATE : 1/10/2022 11:54 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1112 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203A-XS_RAMP A (EB EXIT).DWG
LAYOUT NAME - rmpa-xs_05

PLOT DATE : 1/10/2022 11:54 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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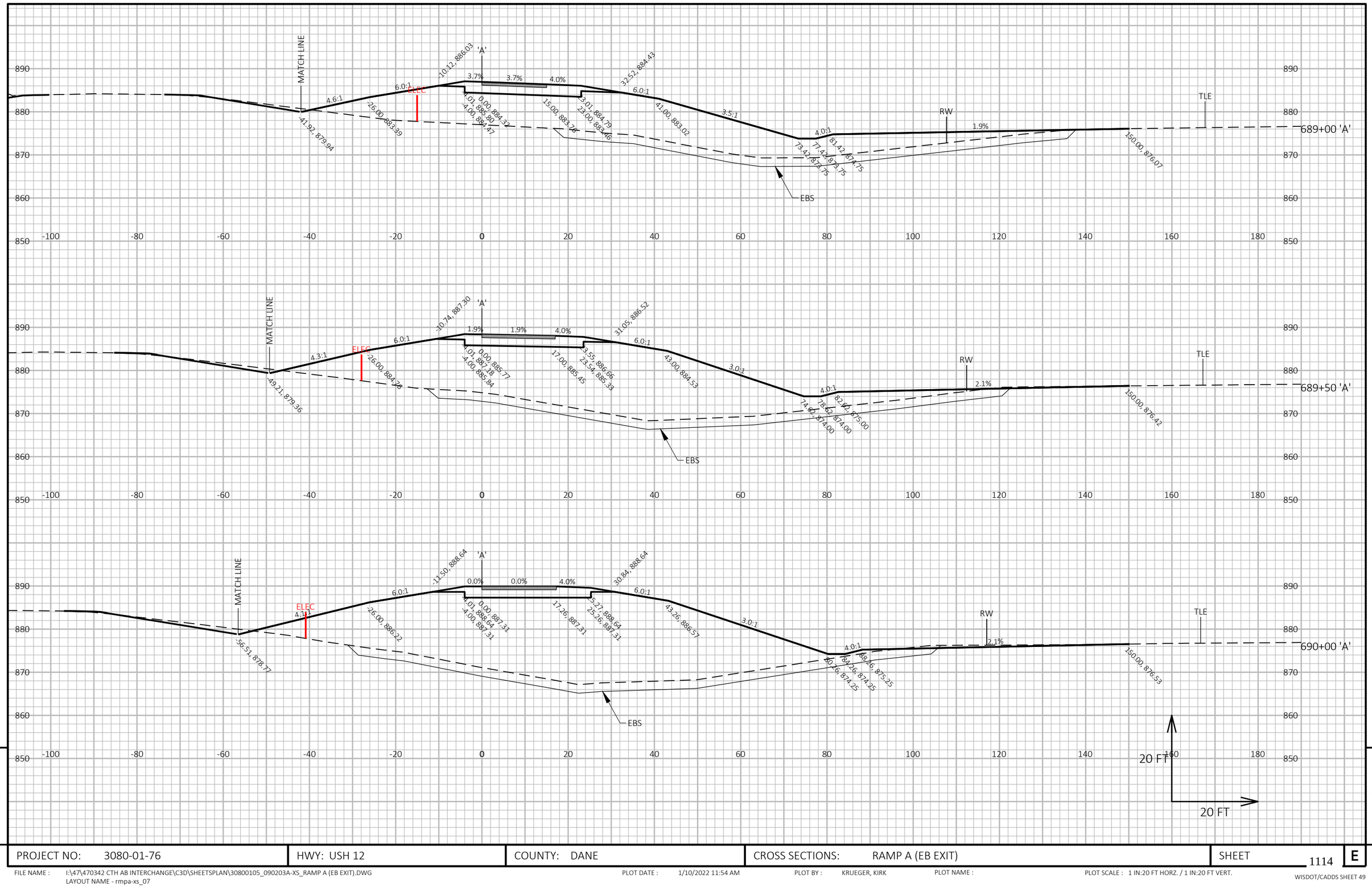
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1113	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203A-XS_RAMP A (EB EXIT).DWG
LAYOUT NAME - rmpa-xs_06

PLOT DATE : 1/10/2022 11:54 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

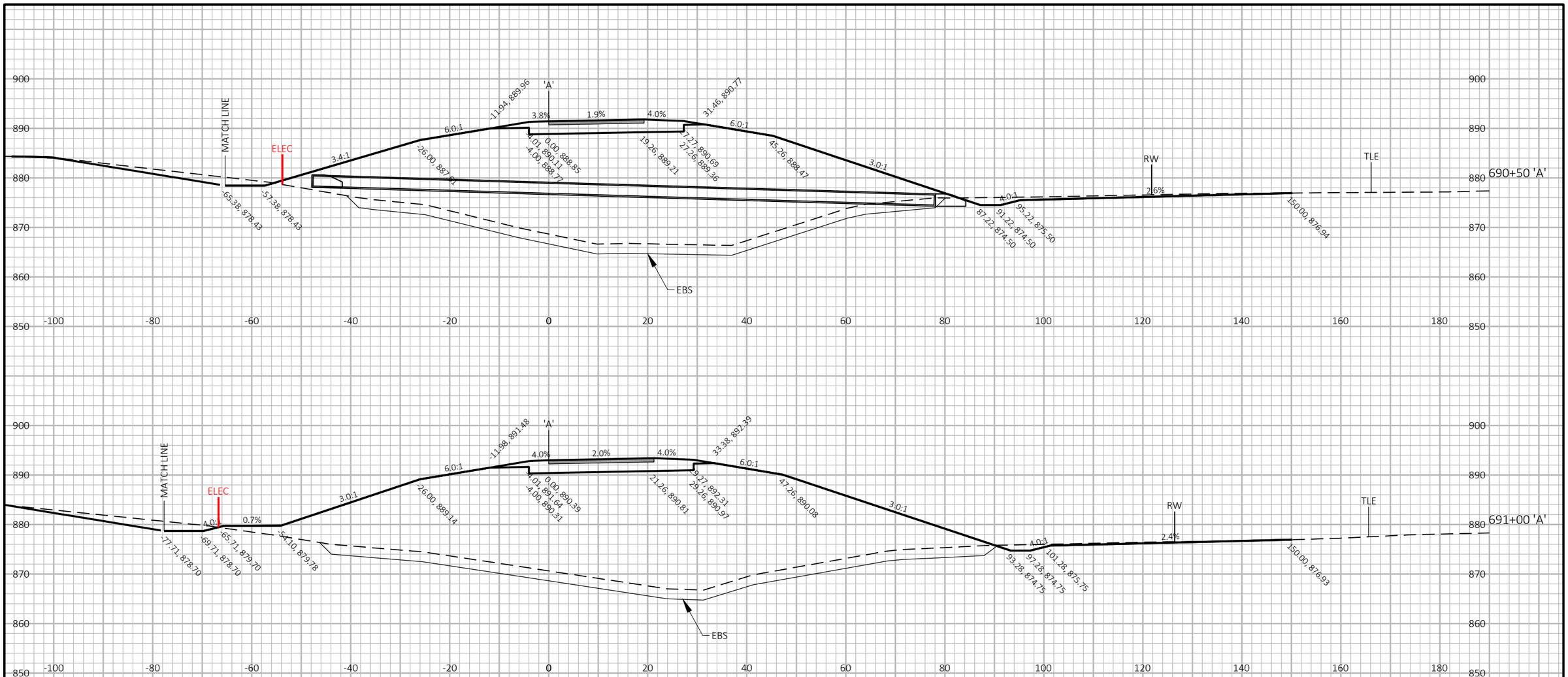


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1114	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203A-XS_RAMP A (EB EXIT).DWG
LAYOUT NAME - rmpa-xs_07

PLOT DATE : 1/10/2022 11:54 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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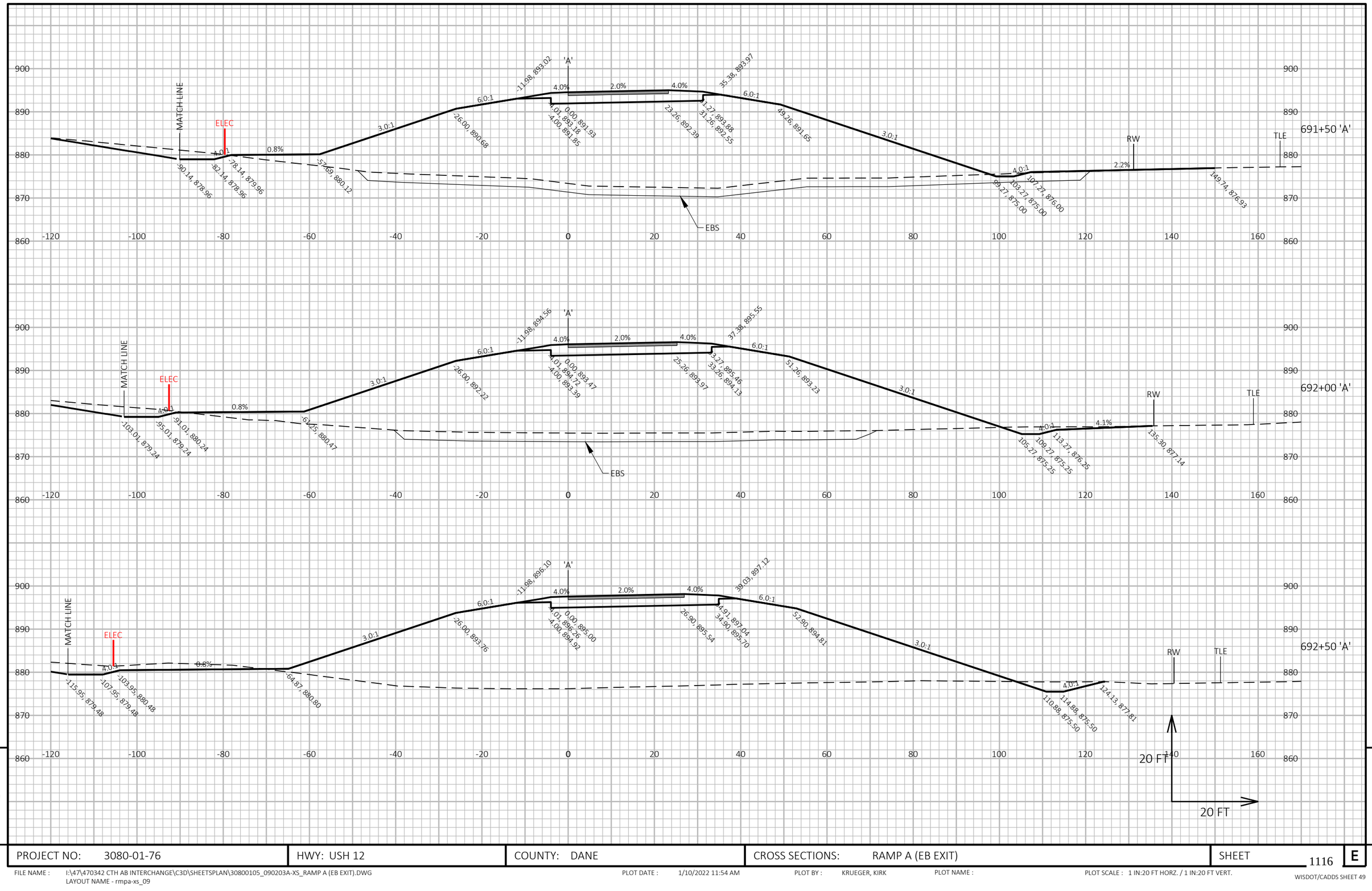
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1115	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203A-XS_RAMP A (EB EXIT).DWG
LAYOUT NAME - rmpa-xs_08

PLOT DATE : 1/10/2022 11:54 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

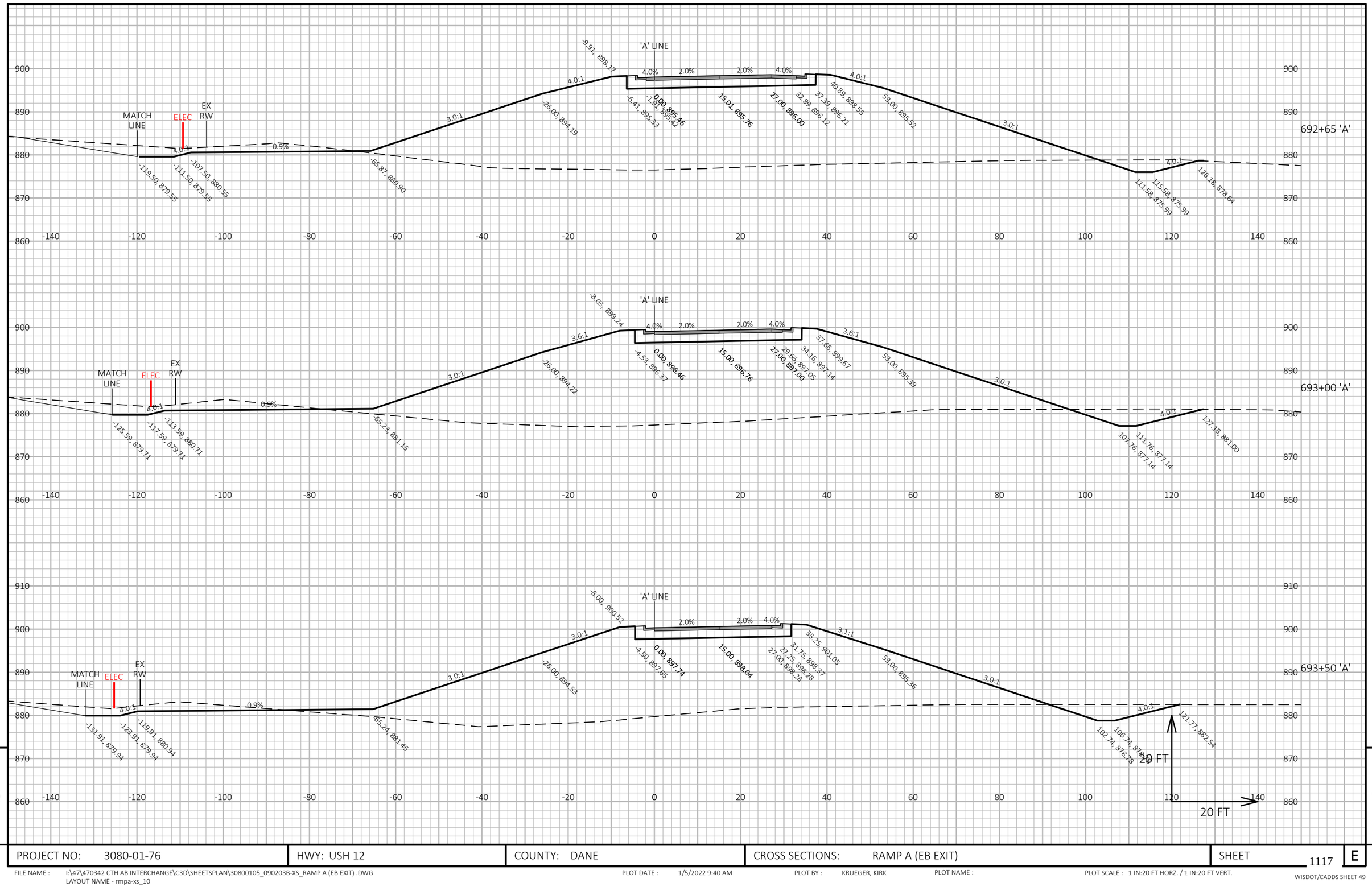


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1116 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203A-XS_RAMP A (EB EXIT).DWG
LAYOUT NAME - rmpa-xs_09

PLOT DATE : 1/10/2022 11:54 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1117 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203B-XS_RAMP A (EB EXIT) .DWG
LAYOUT NAME - rmpa-xs_10

PLOT DATE : 1/5/2022 9:40 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

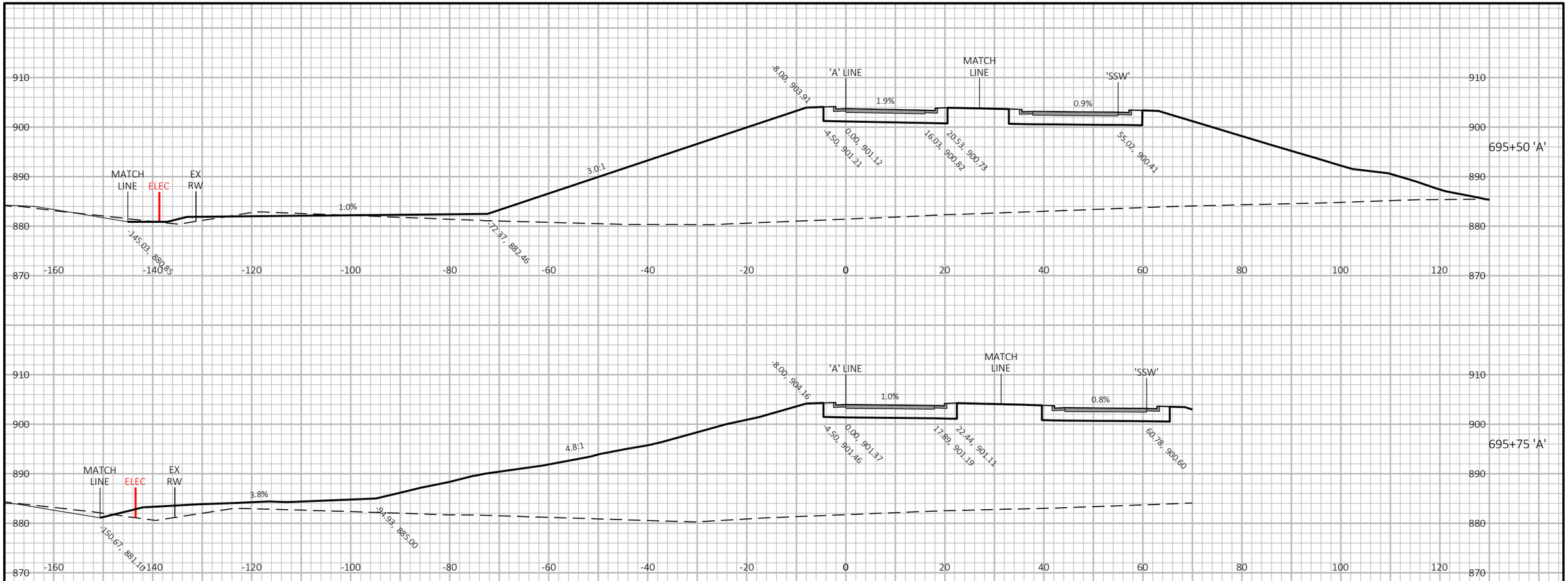
WISDOT/CADDS SHEET 49

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1118 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203B-XS_RAMP A (EB EXIT) .DWG
LAYOUT NAME - rmpa-xs_11

PLOT DATE : 1/5/2022 9:40 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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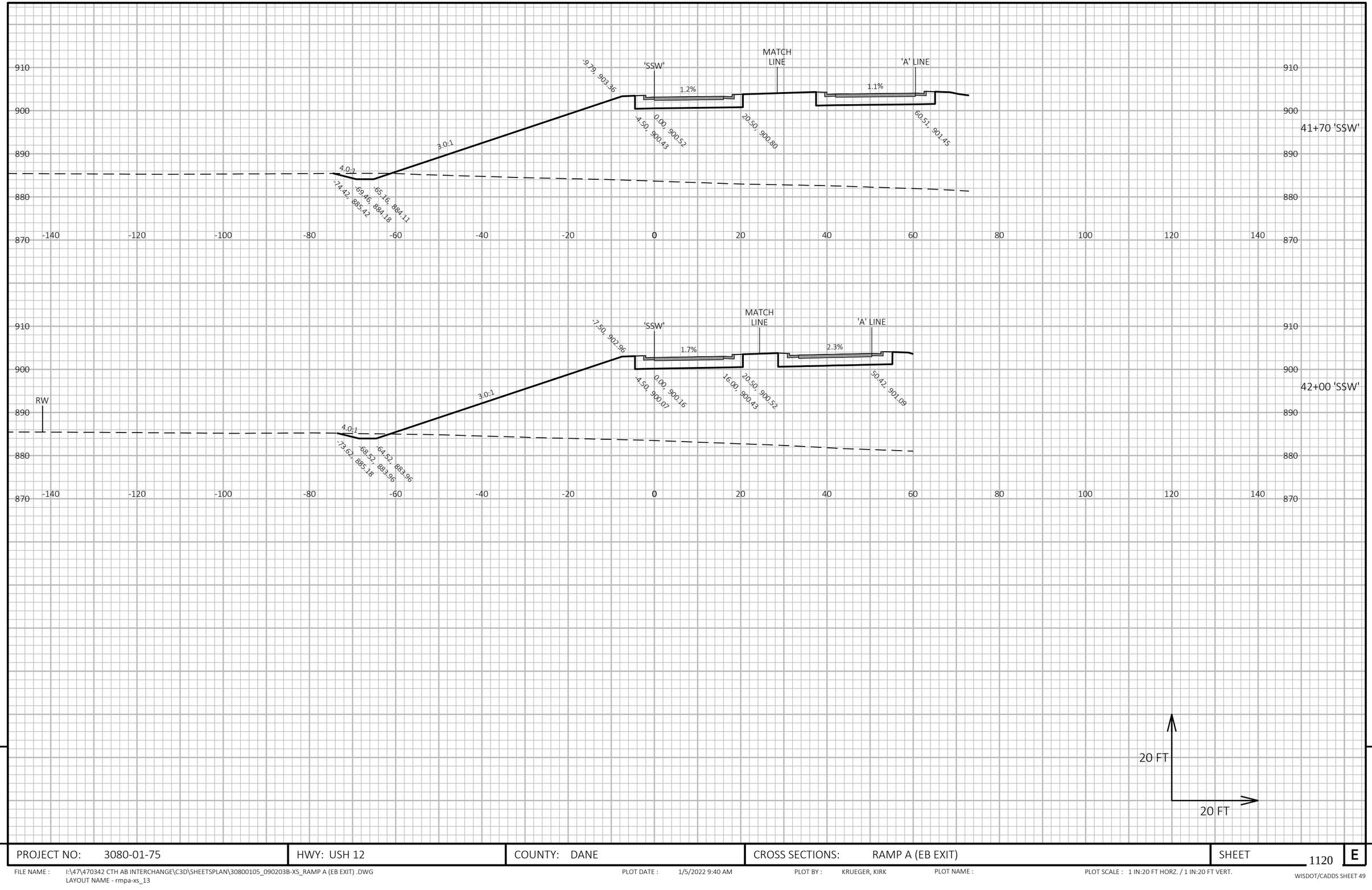
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1119	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203B-XS_RAMP A (EB EXIT) .DWG
LAYOUT NAME - rmpa-xs_12

PLOT DATE : 1/5/2022 9:40 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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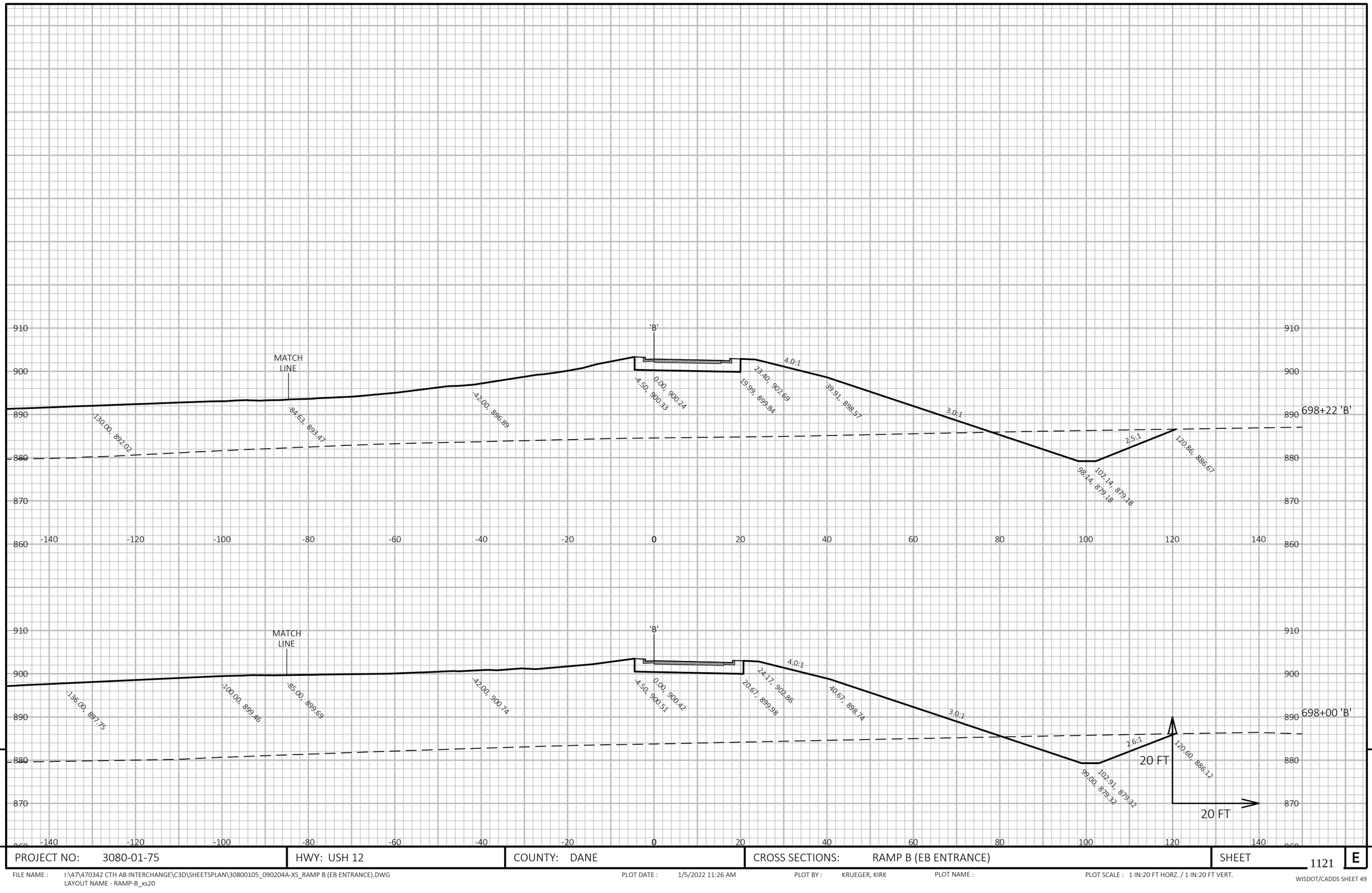
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP A (EB EXIT)	SHEET 1120	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090203B-XS_RAMP A (EB EXIT) .DWG
LAYOUT NAME - rmpa-xs_13

PLOT DATE : 1/5/2022 9:40 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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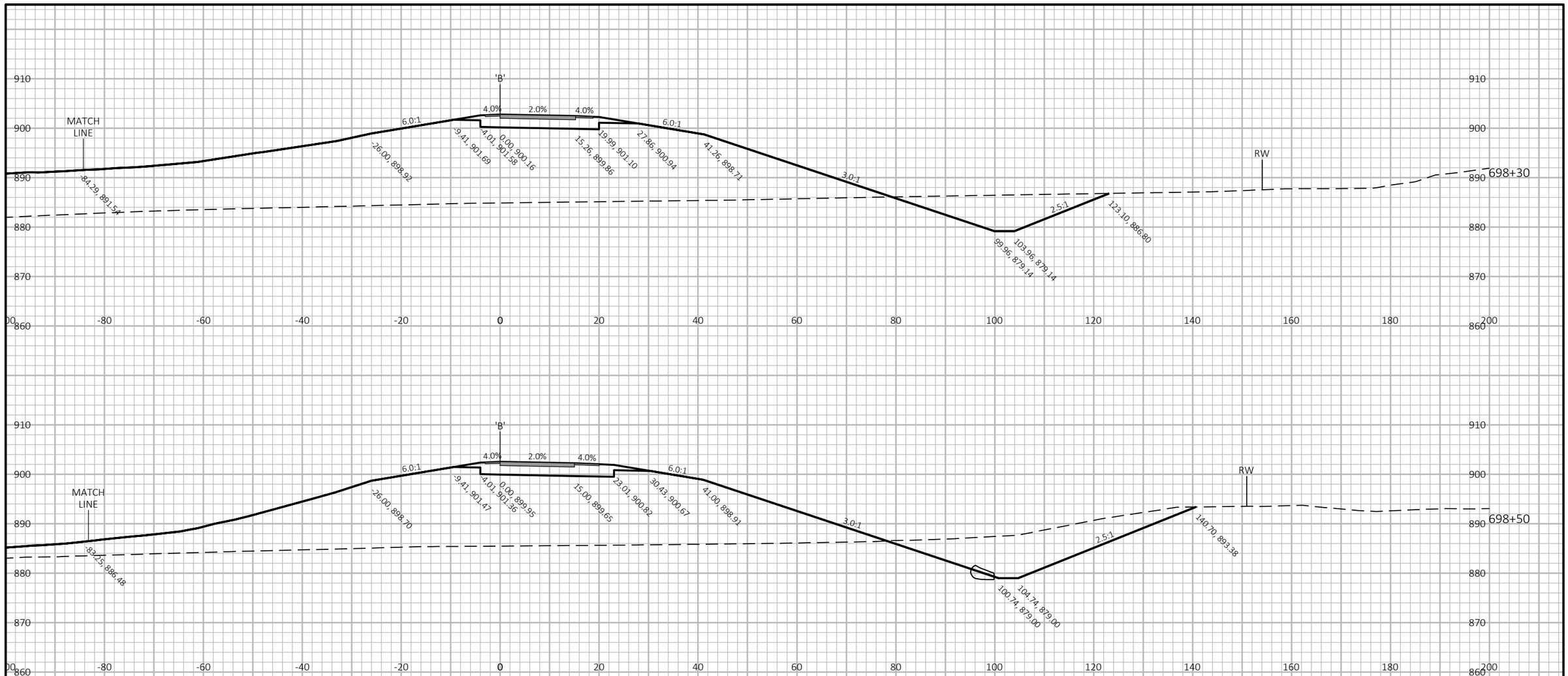
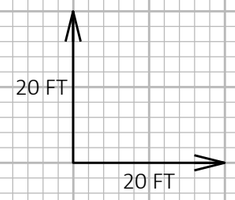
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1121	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204A-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RAMP-B_xs20

PLOT DATE : 1/5/2022 11:26 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.





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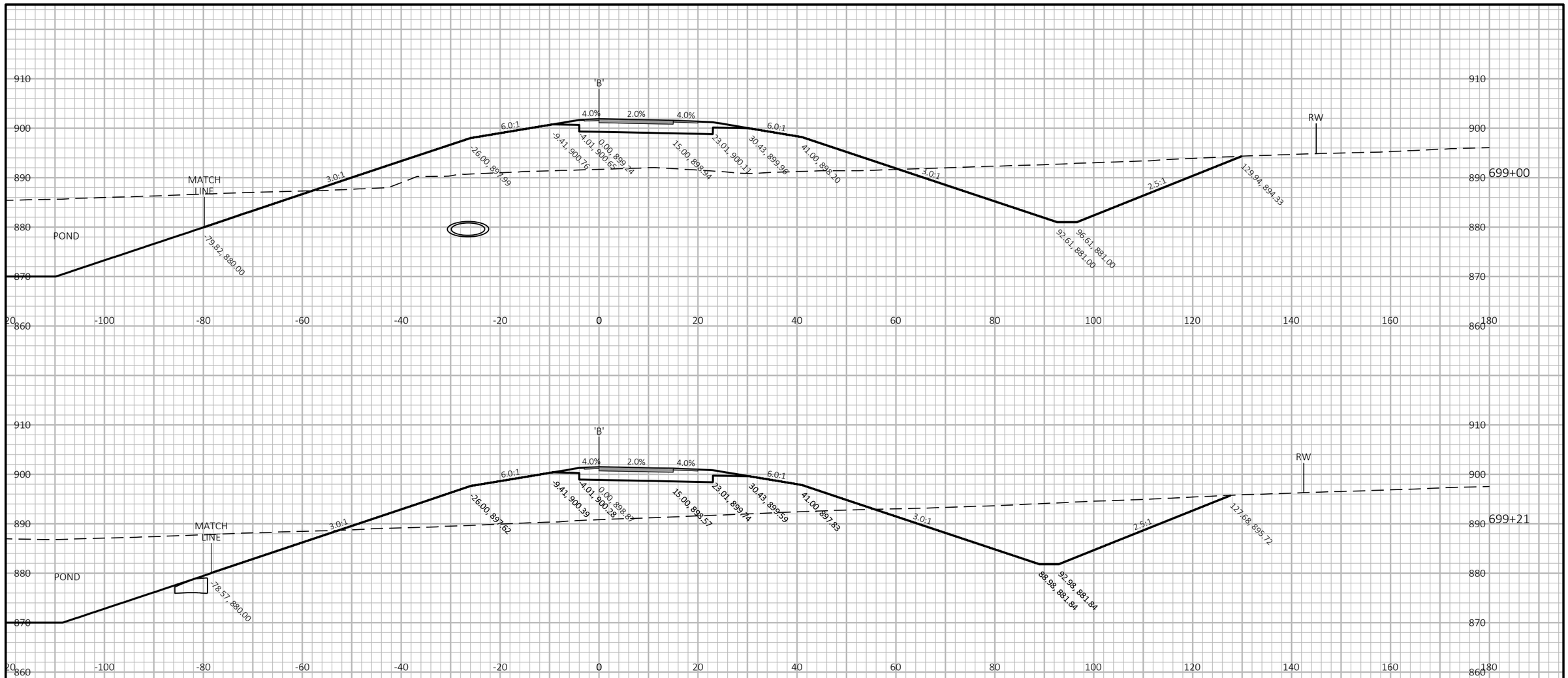
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1122	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_01

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1123	E

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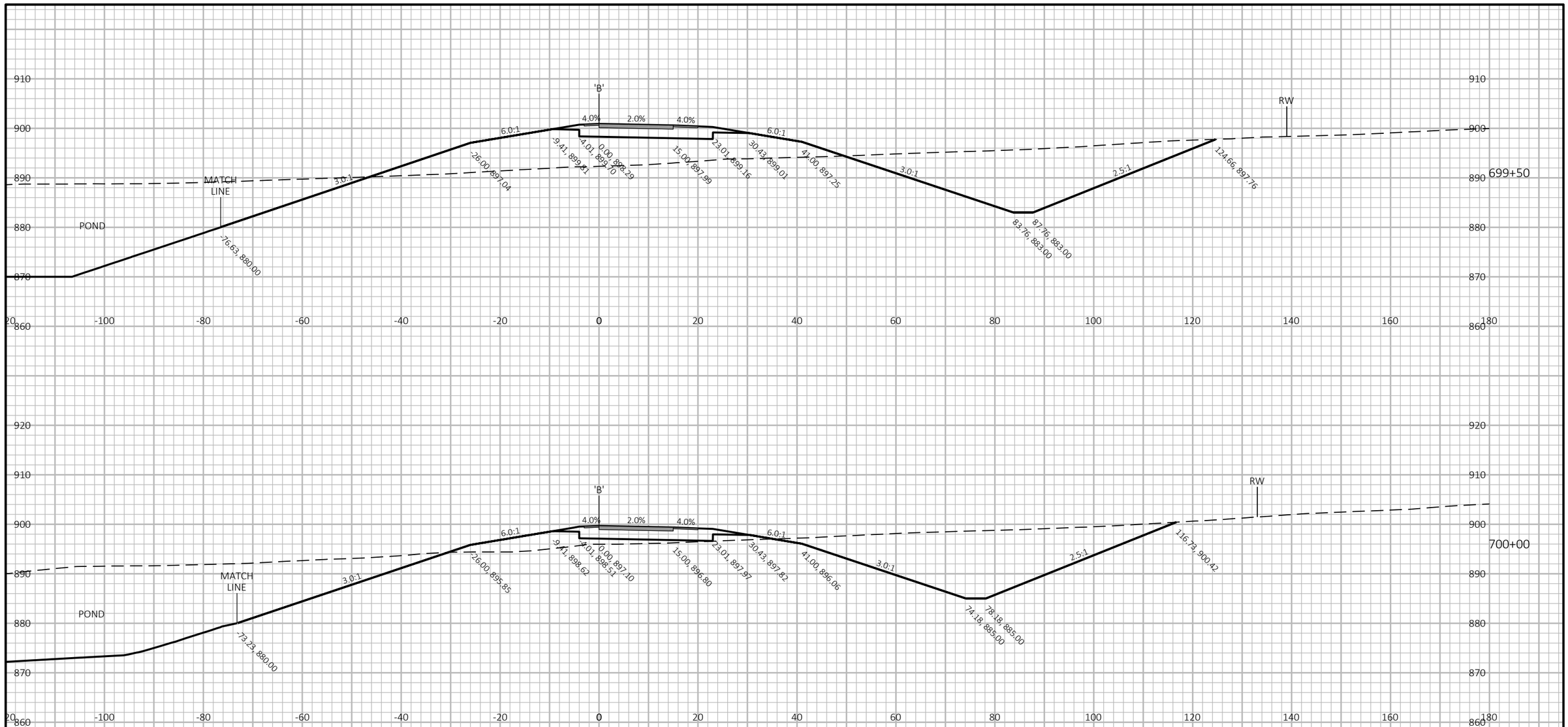
LAYOUT NAME - RmpB-xs_02

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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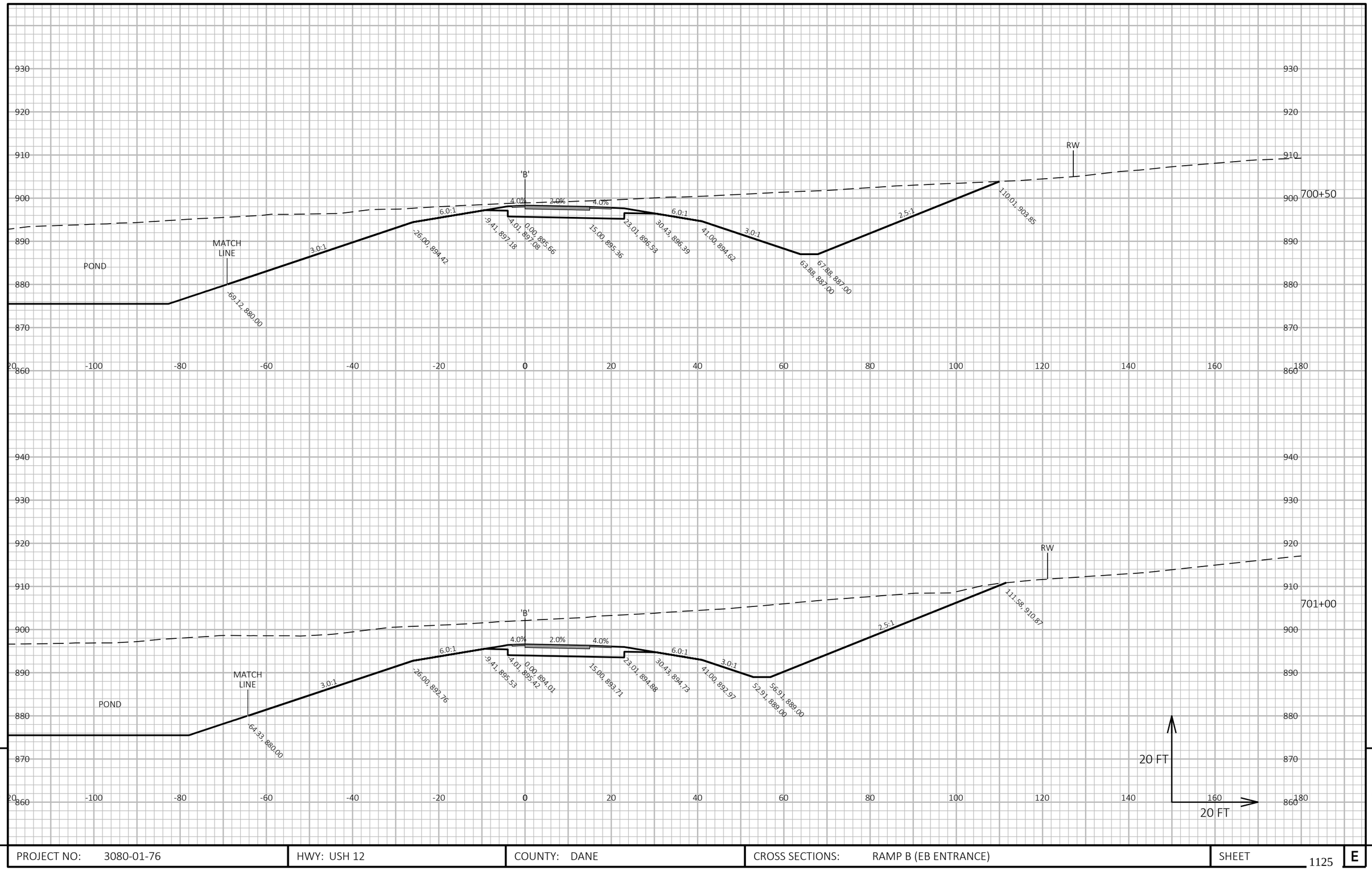
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1124	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_03

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

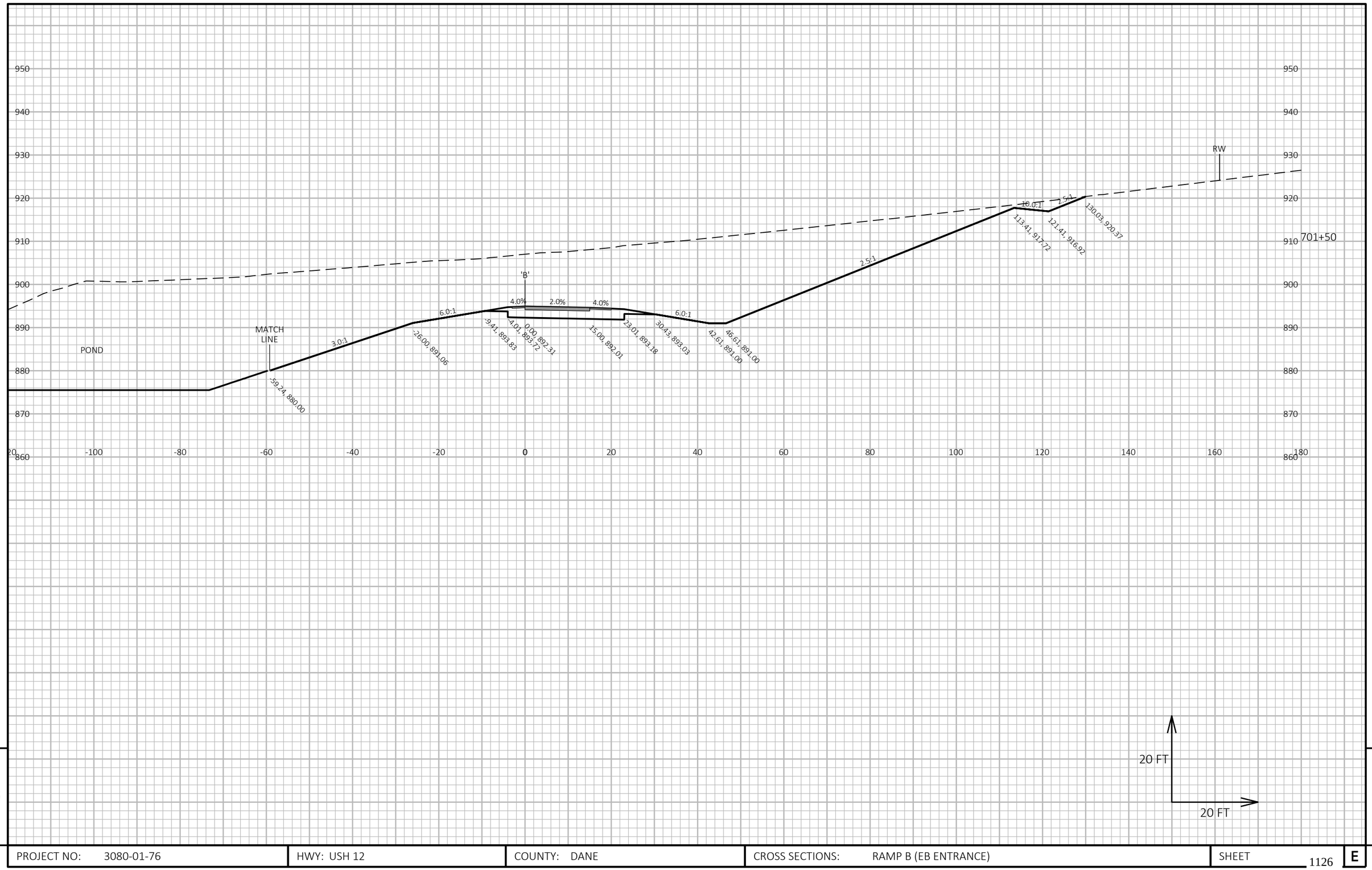


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1125 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_04

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1126	E

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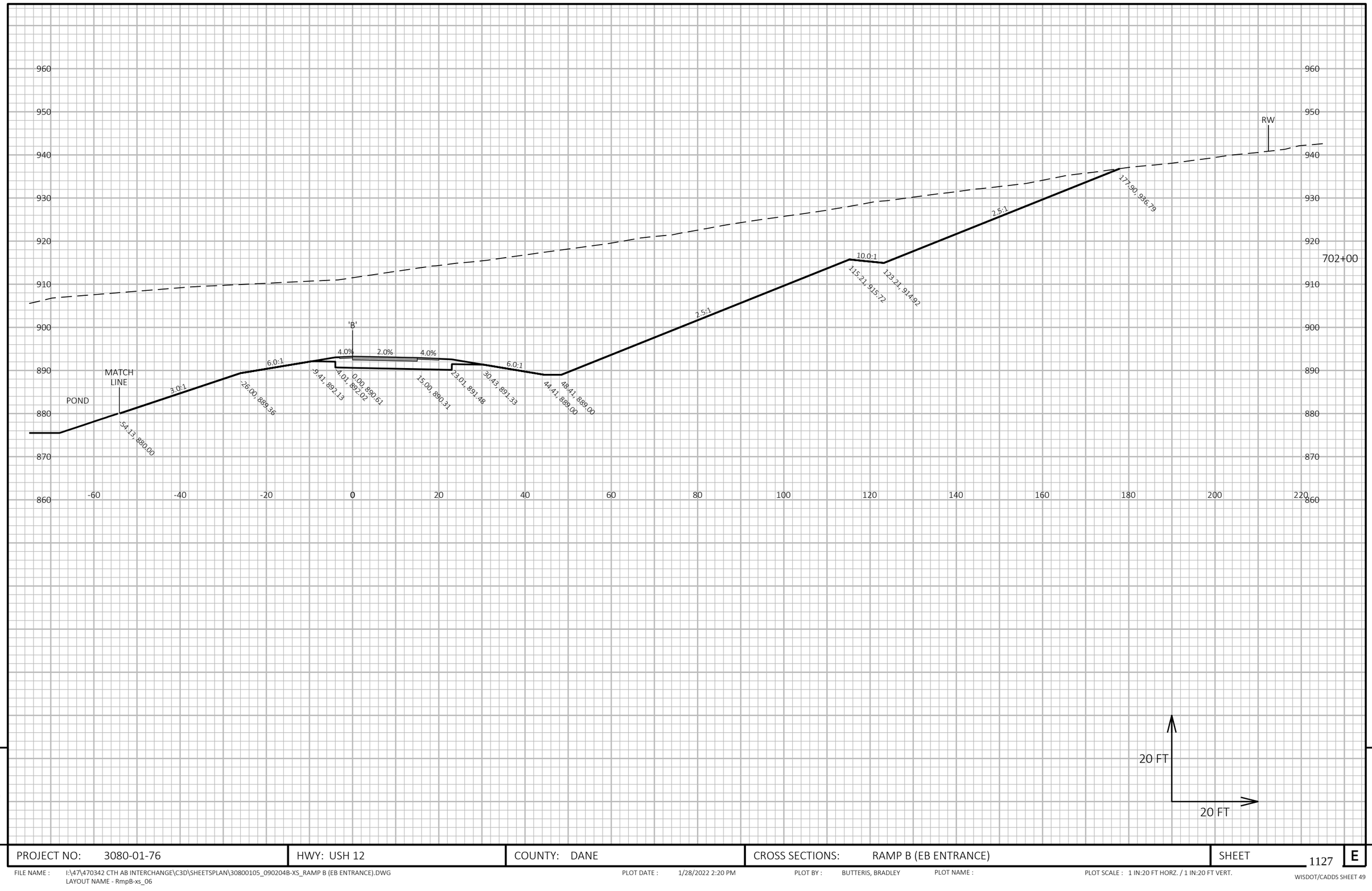
LAYOUT NAME - RmpB-xs_05

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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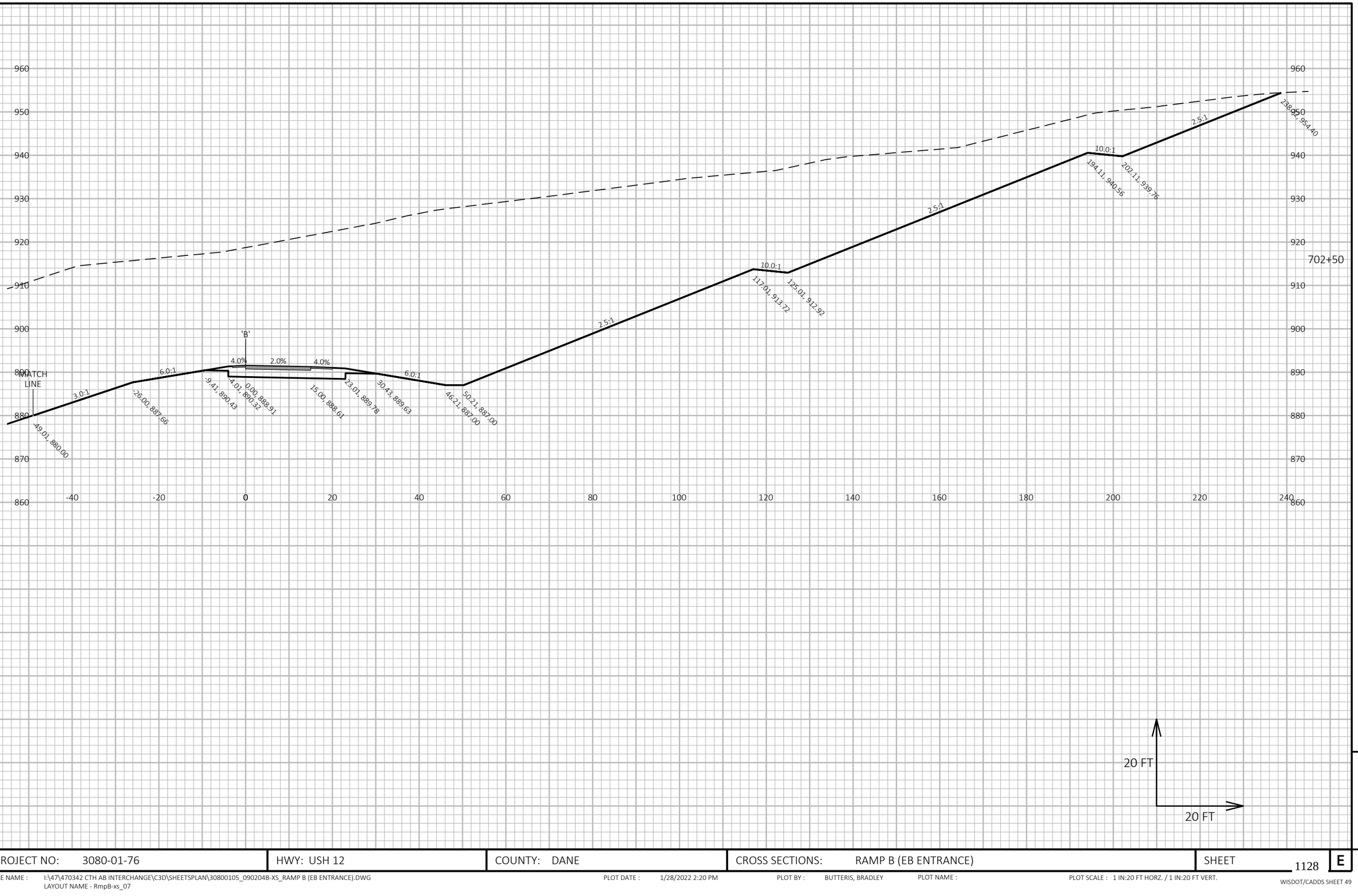
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1127	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_06

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1128	E

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LAYOUT NAME - RmpB-xs_07

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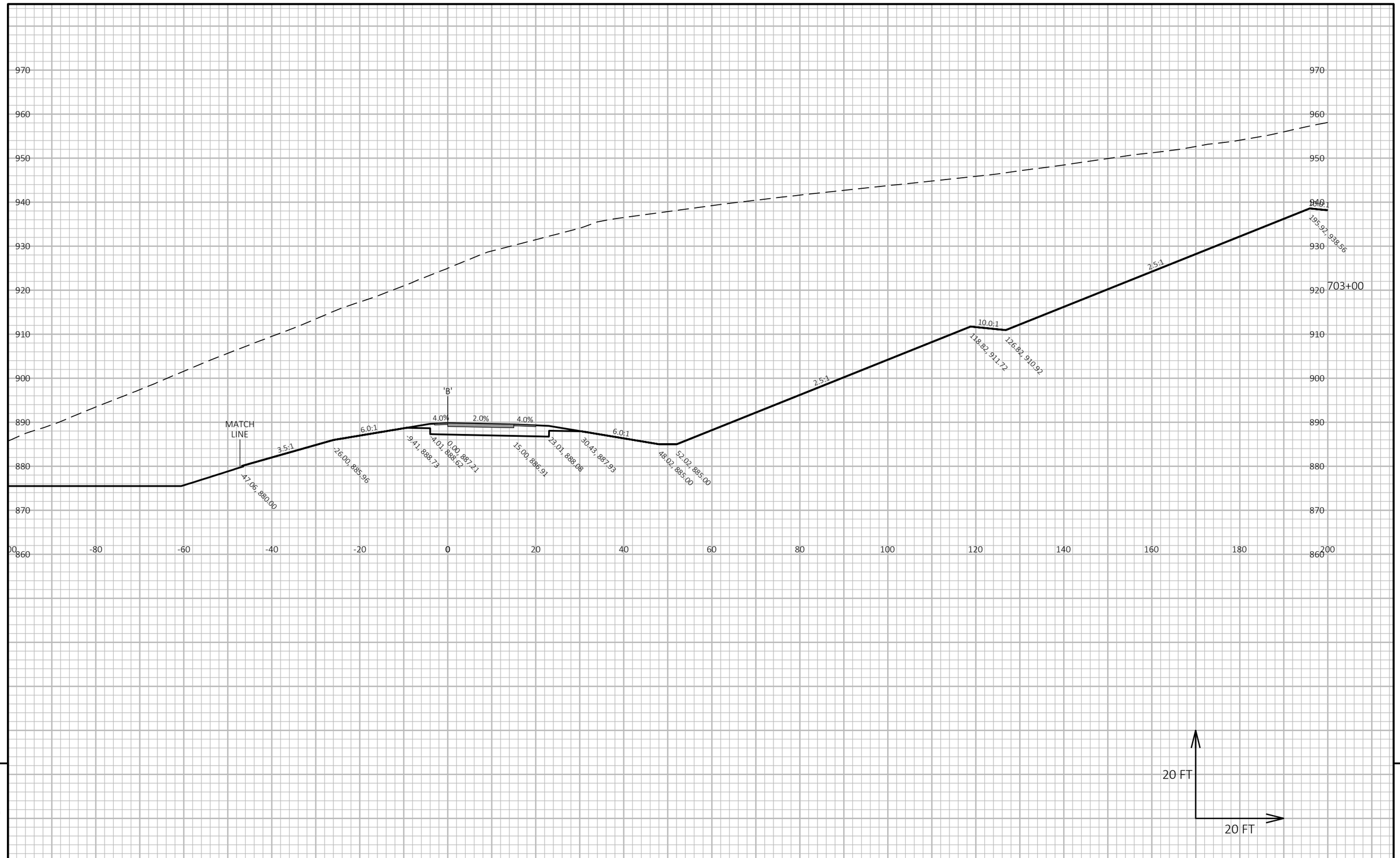

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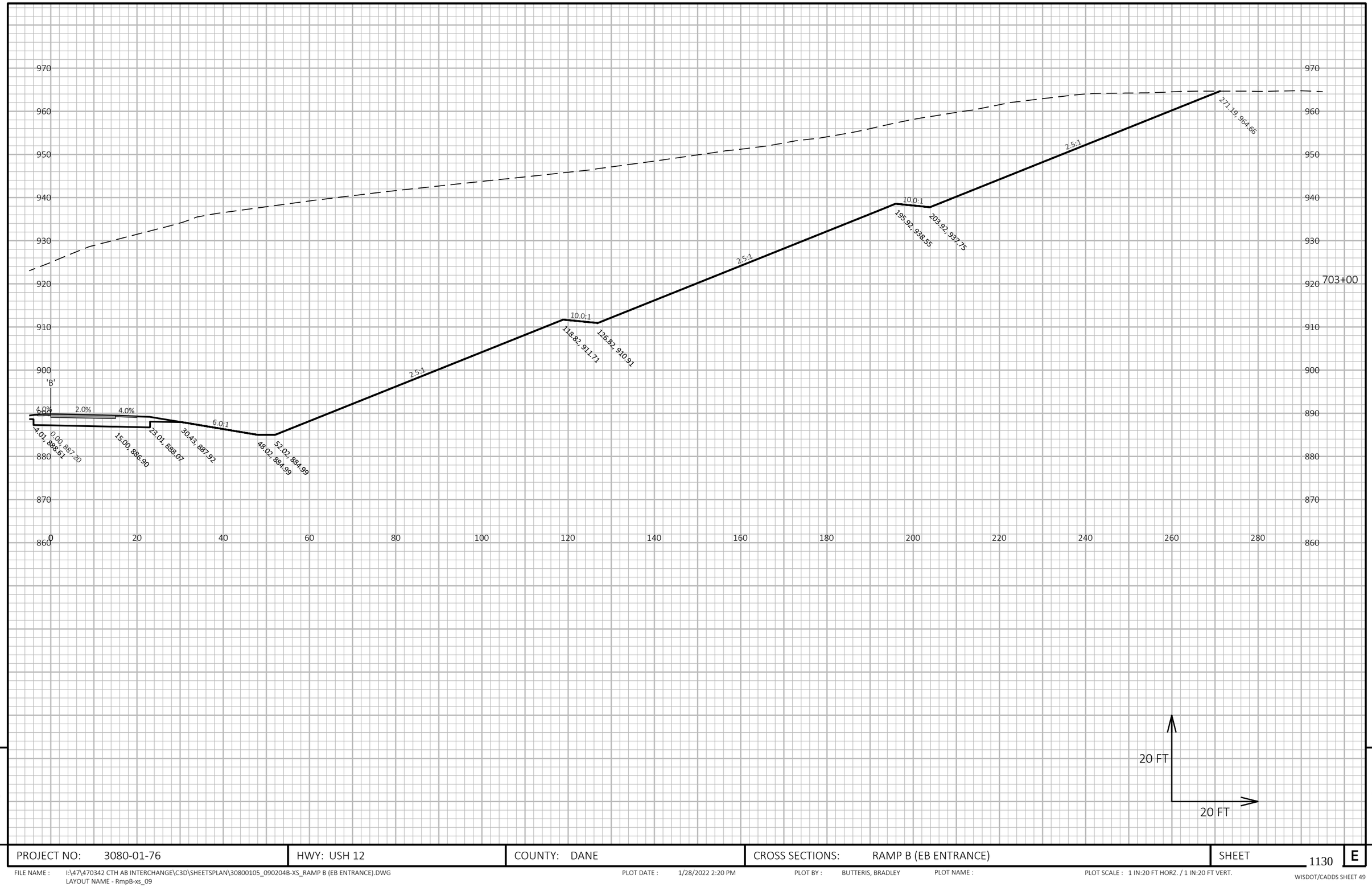
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1129	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_08

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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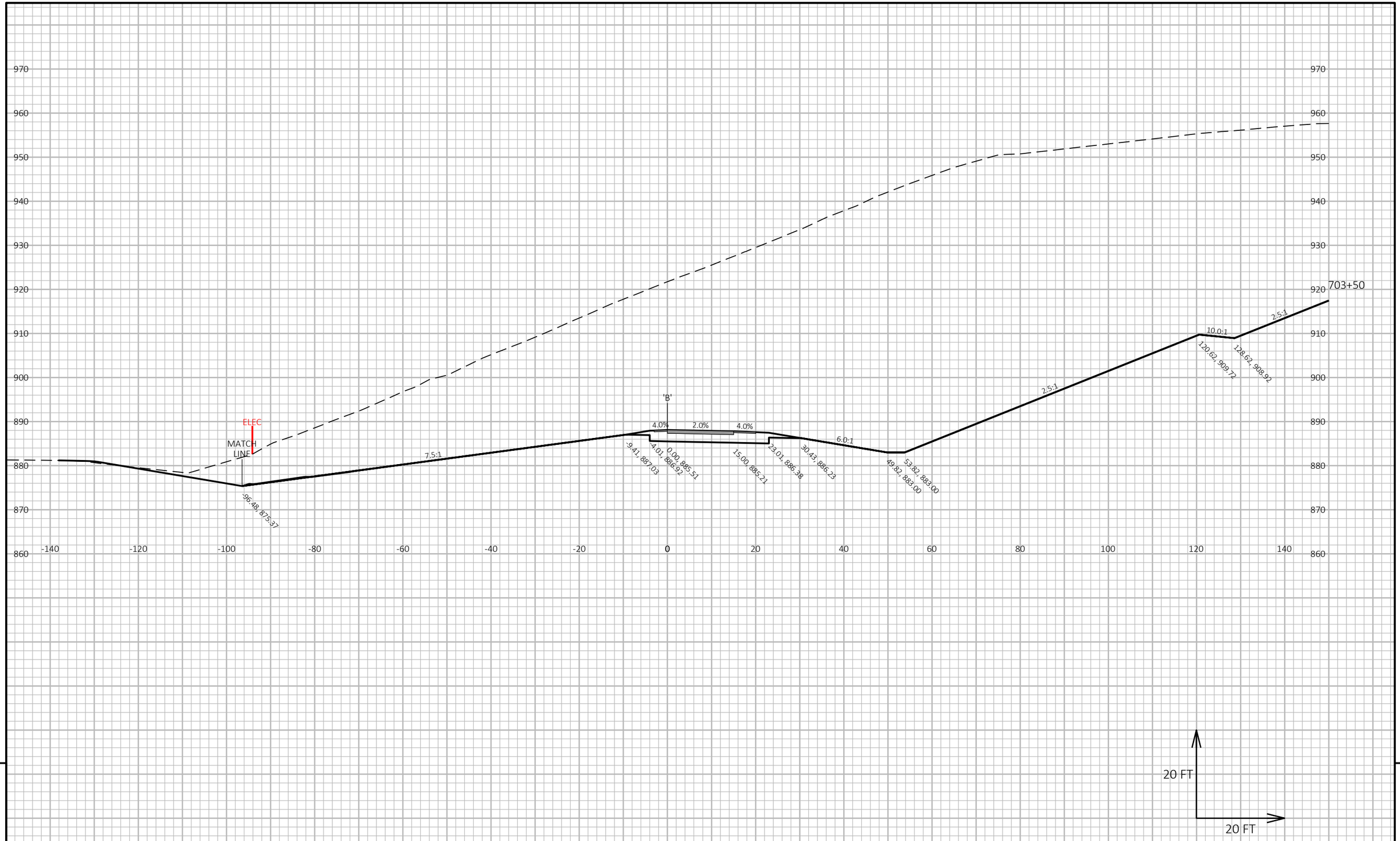
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1130	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_09

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1131	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_10

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

970
960
950
940
930
920
910
900
890
880
870
860
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
703+50
'B'
4.0%
2.0%
4.0%
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2.5:1
10.0:1
2.5:1
10.0:1
2.5:1
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0.00, 885.50
15.00, 885.20
23.01, 886.37
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205.73, 935.75
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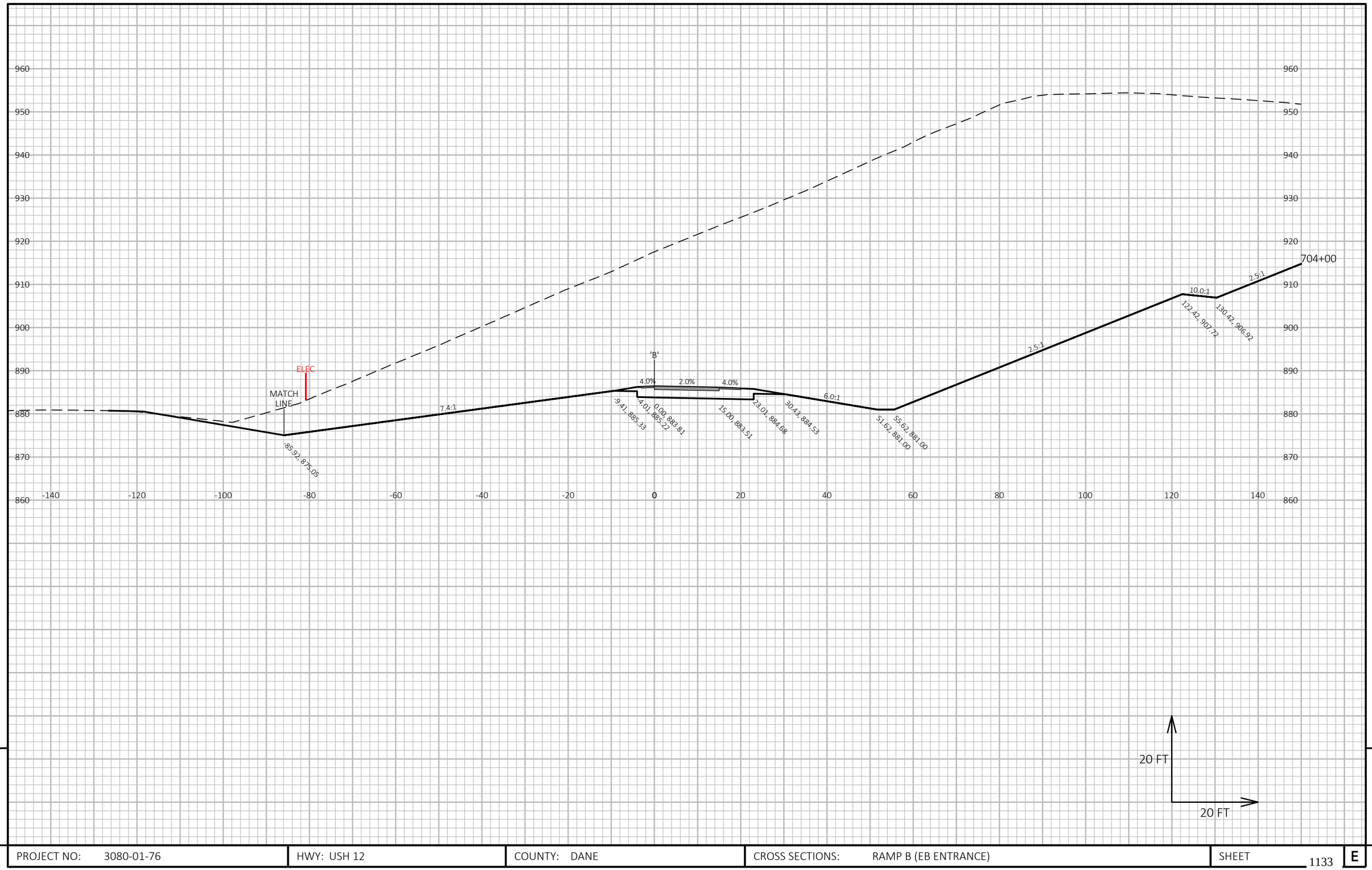
20 FT

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1132	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_11

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

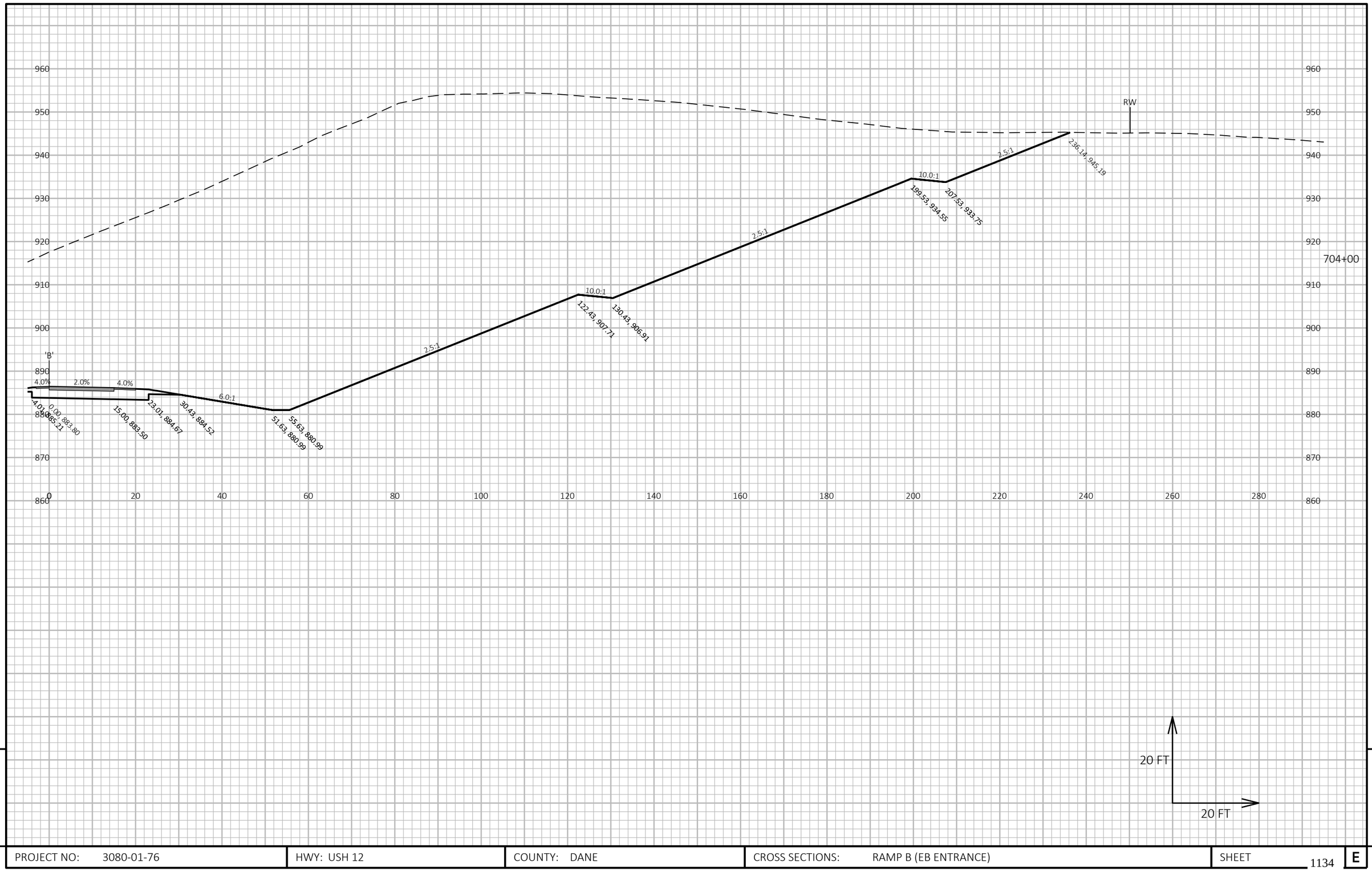


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1133 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_12

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1134	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_13

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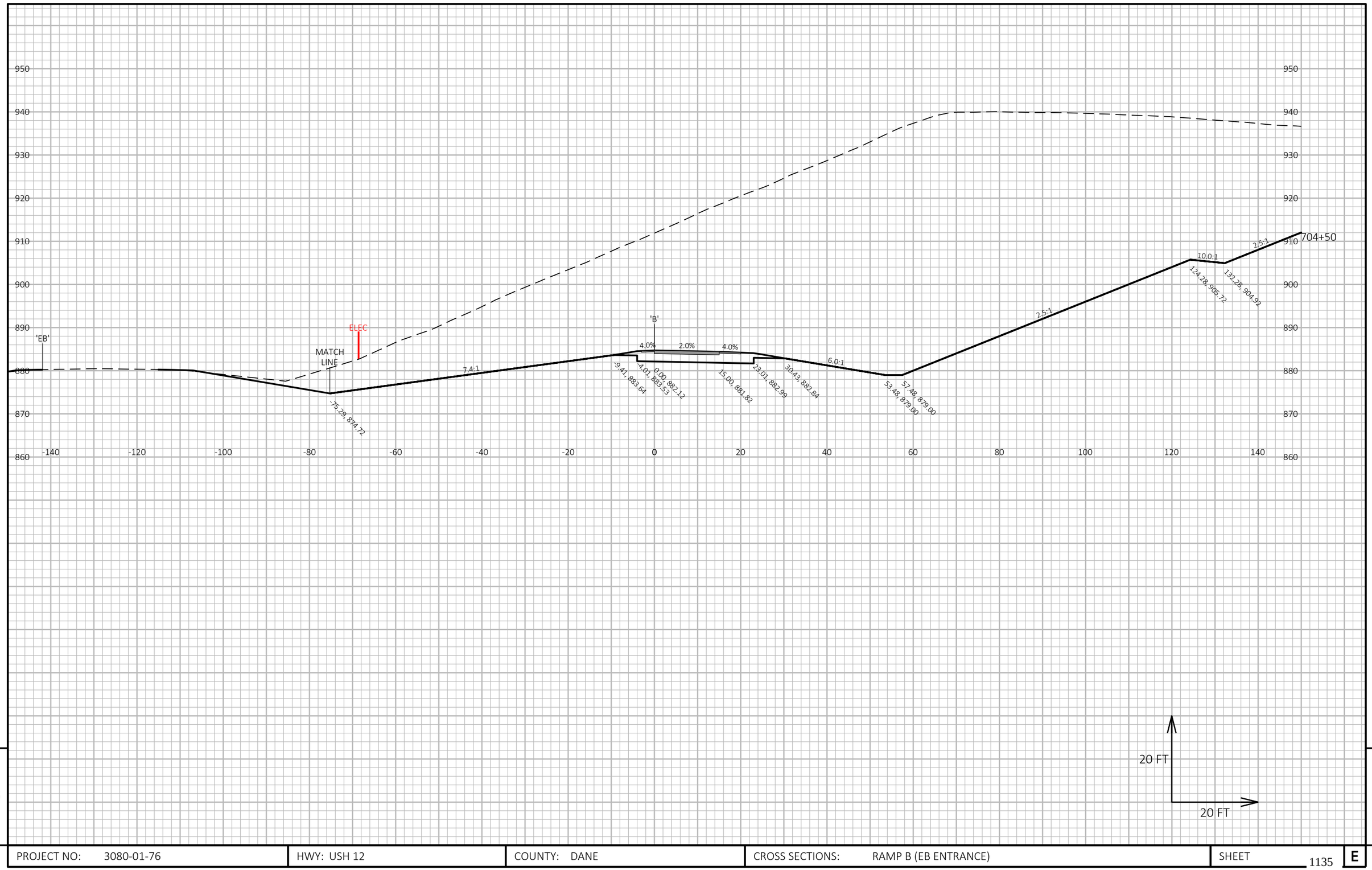

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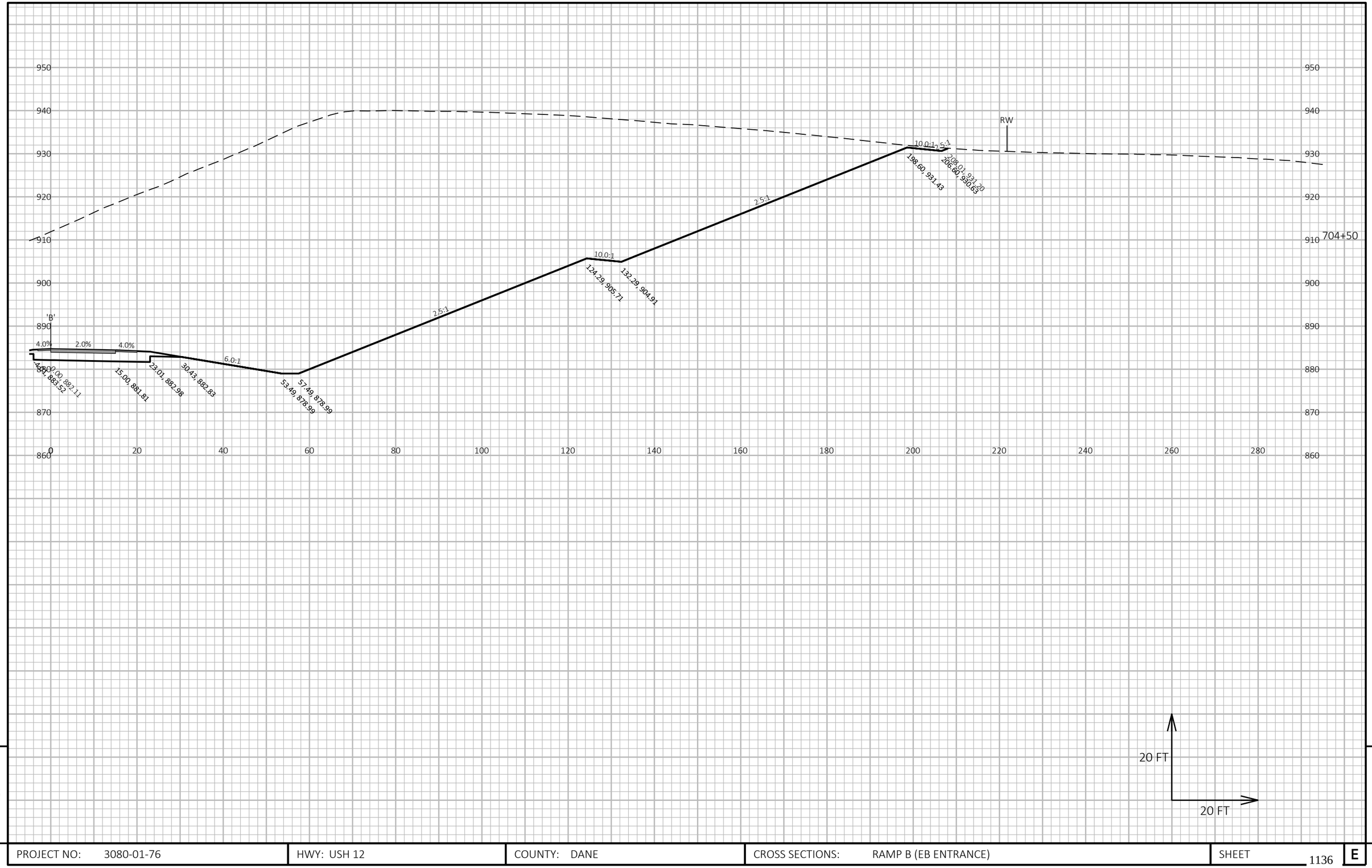
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1135	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_14

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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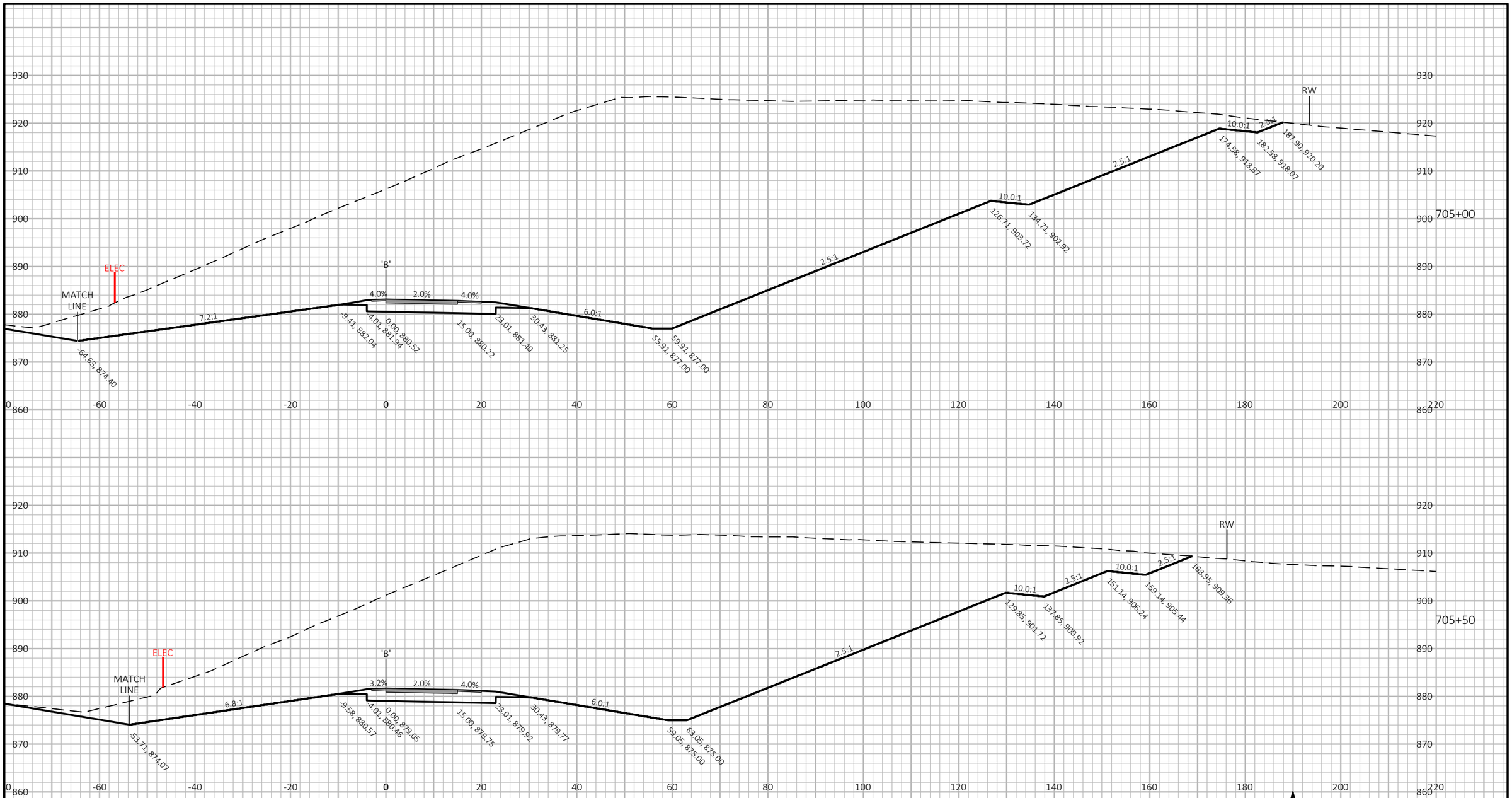
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1136	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_15

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

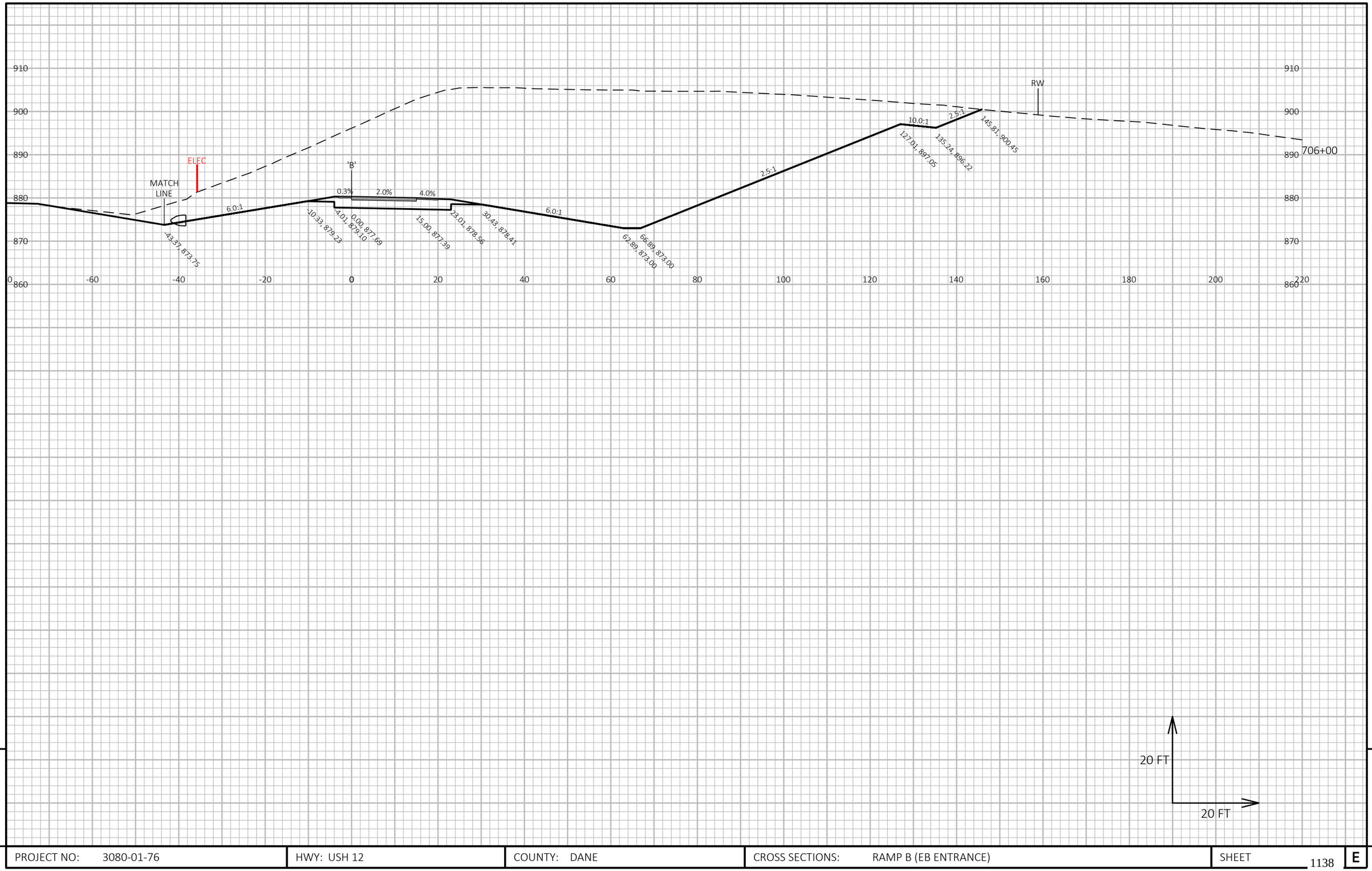


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1137	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_16

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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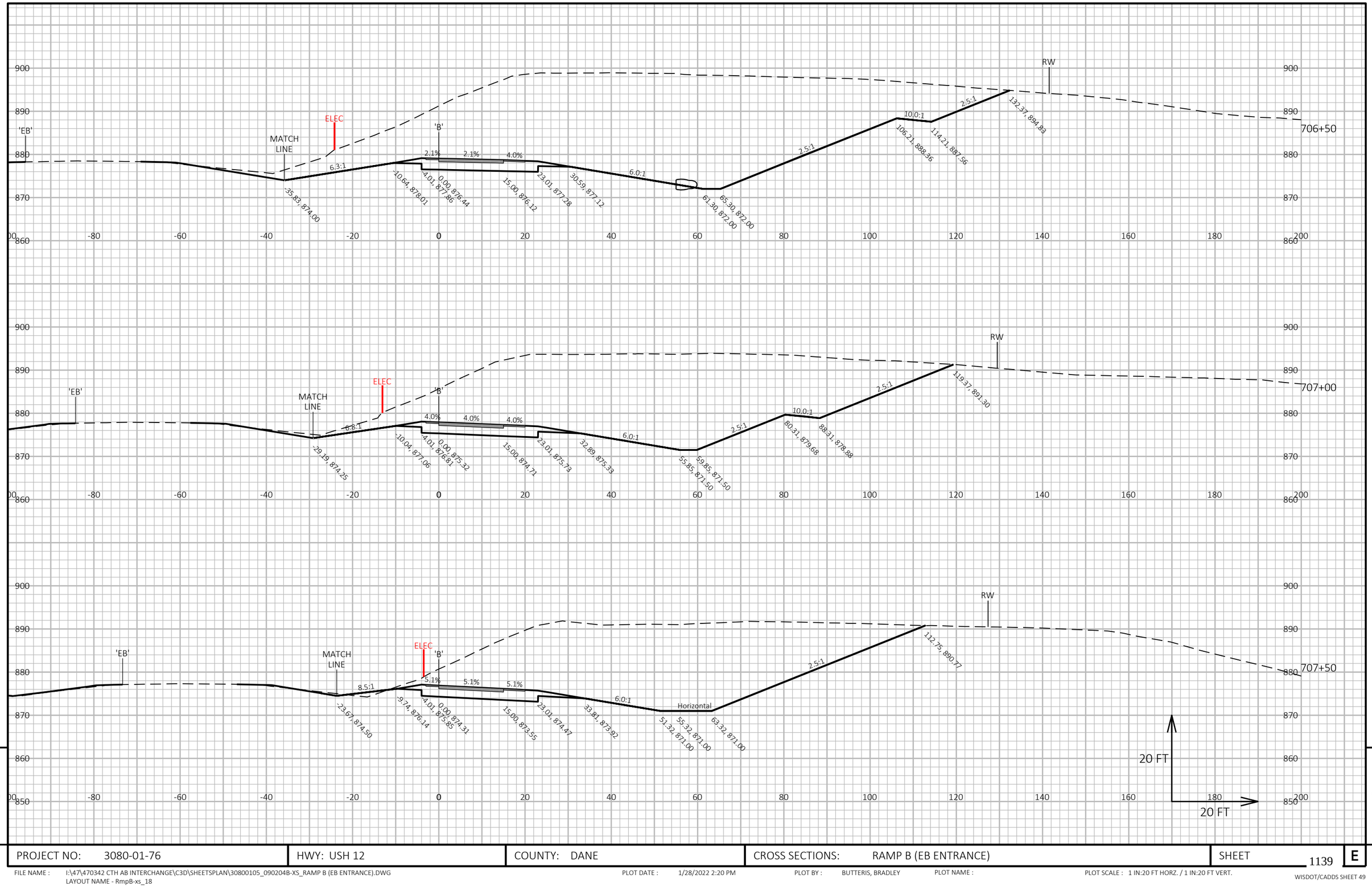
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1138	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_17

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1139	E

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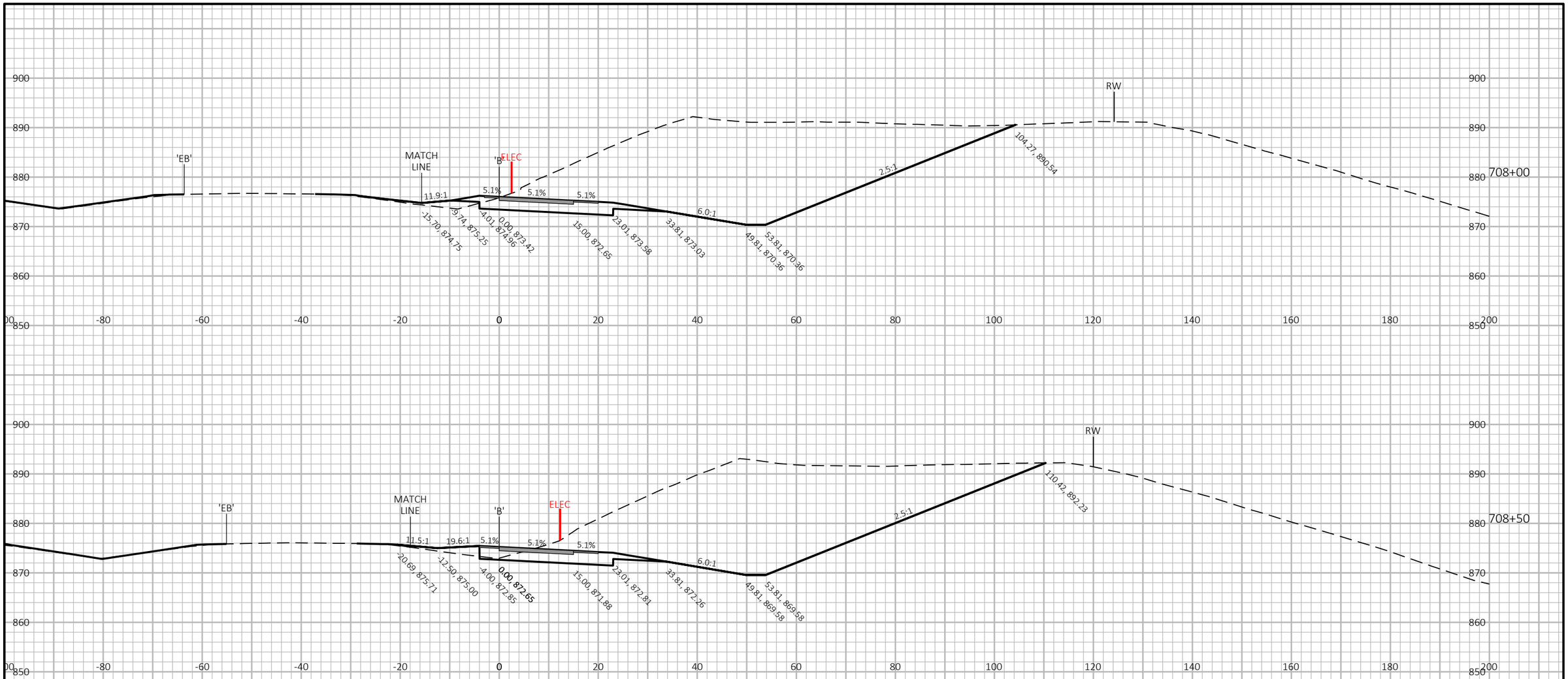
LAYOUT NAME - RmpB-xs_18

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1140	E

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LAYOUT NAME - RmpB-xs_19

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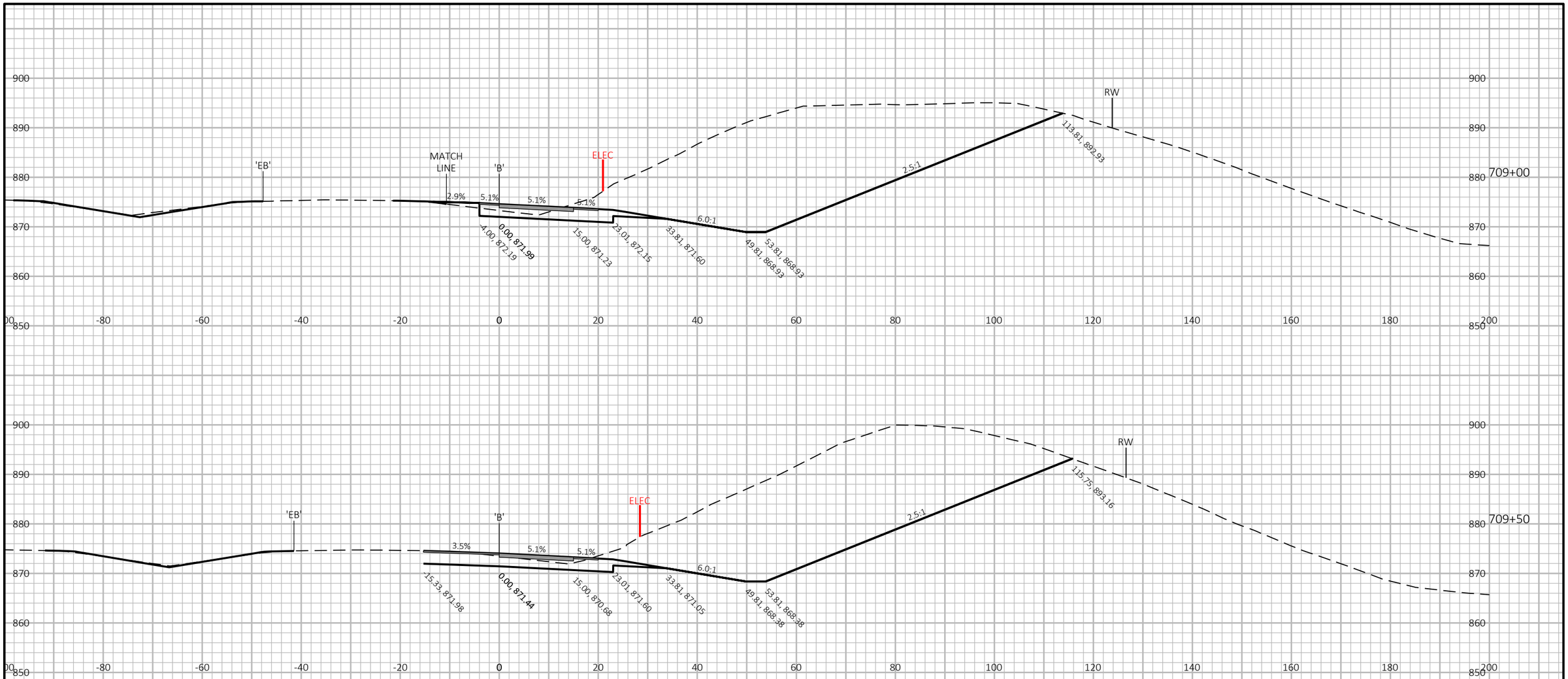

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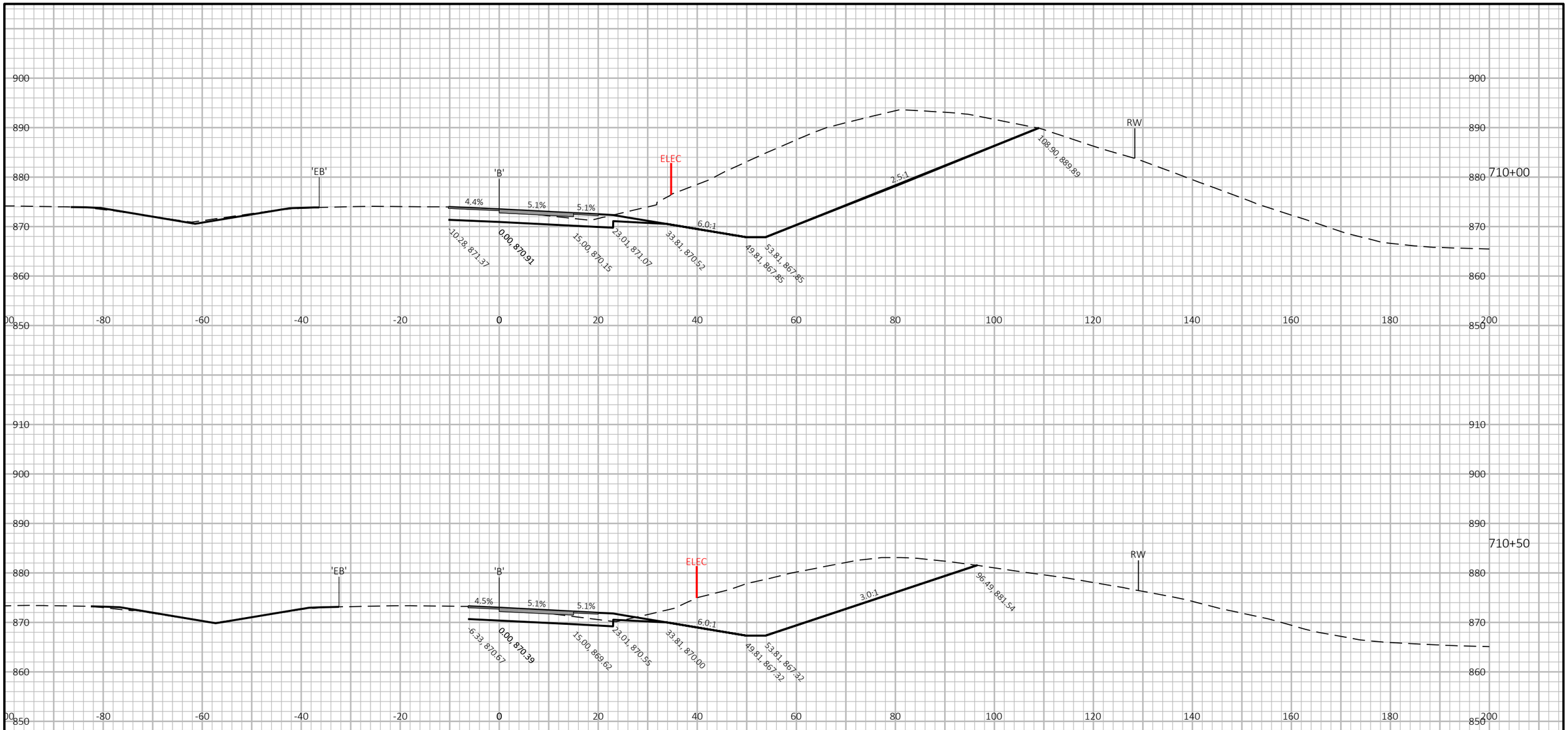
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1141	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_20

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

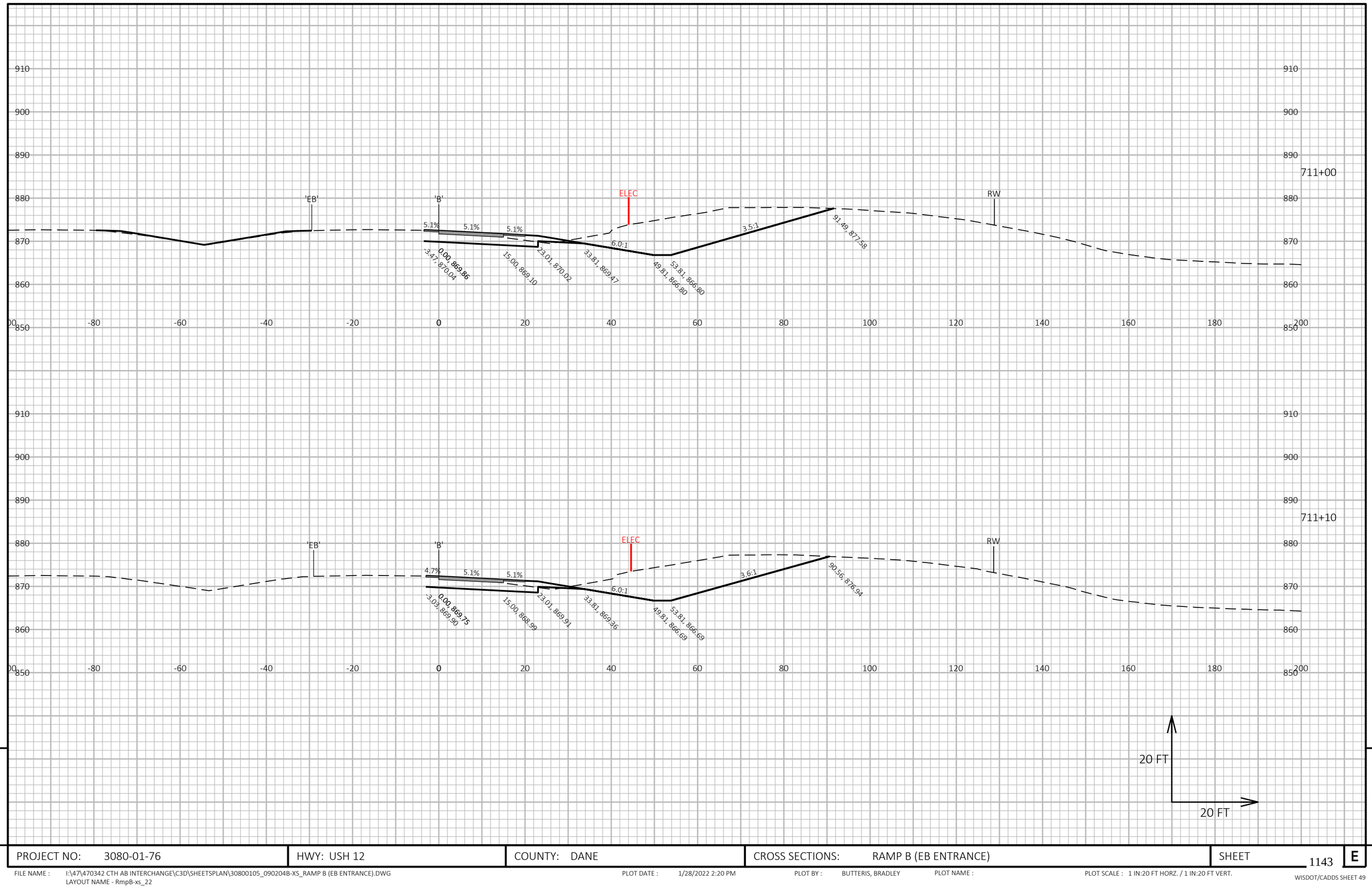


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1142 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_21

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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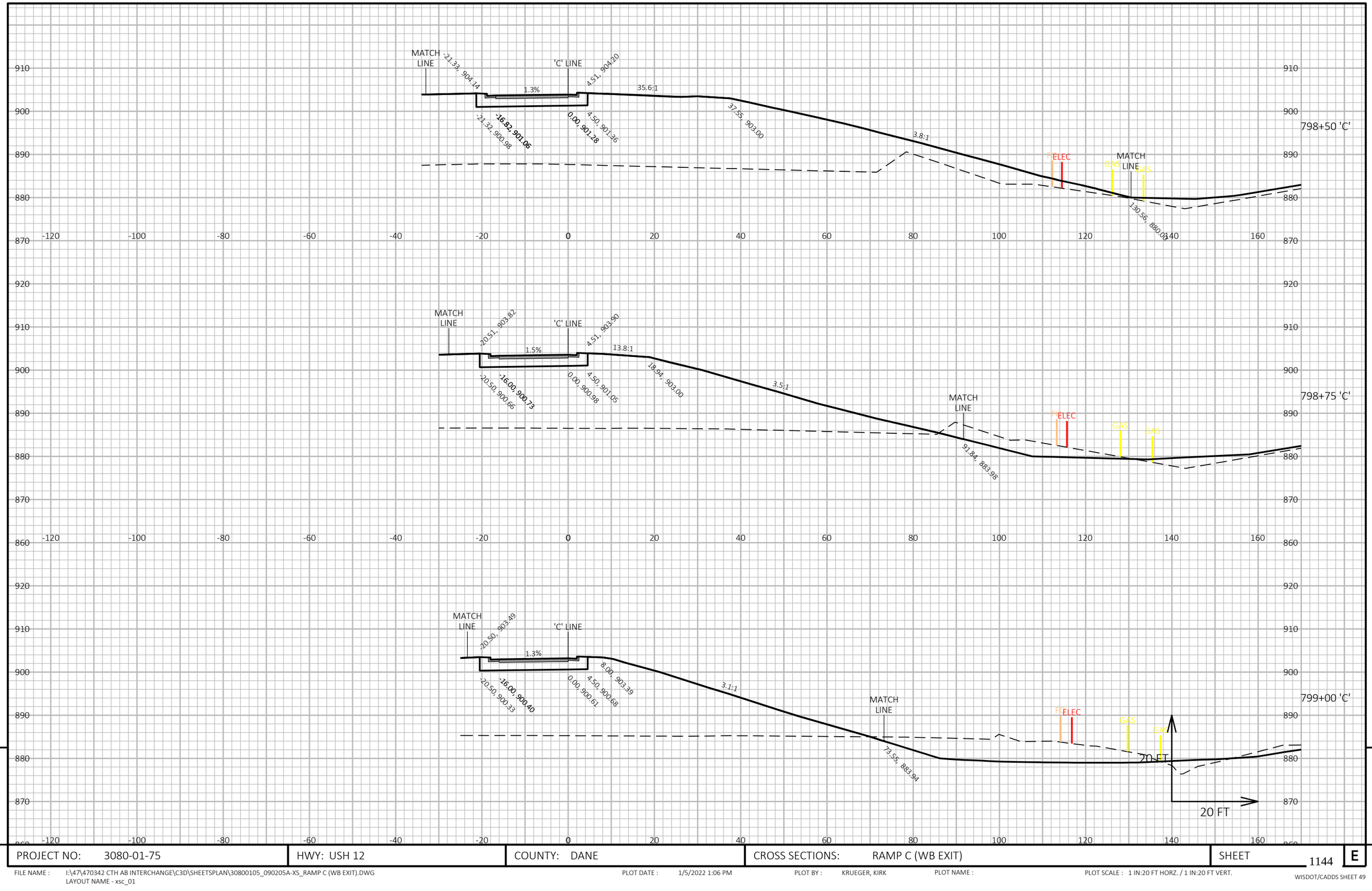
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP B (EB ENTRANCE)	SHEET 1143	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090204B-XS_RAMP B (EB ENTRANCE).DWG
LAYOUT NAME - RmpB-xs_22

PLOT DATE : 1/28/2022 2:20 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

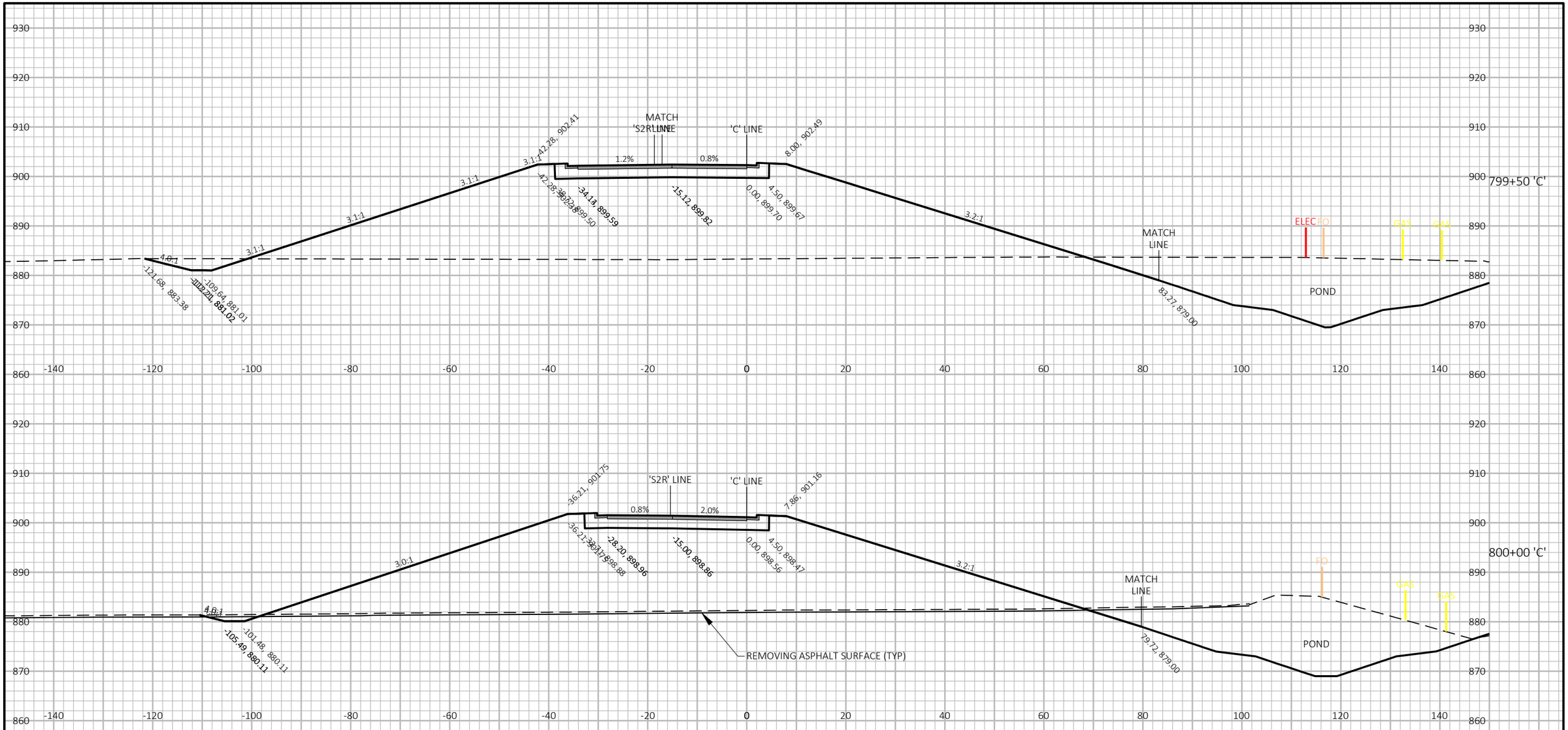


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT)	SHEET 1144 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205A-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - xsc_01

PLOT DATE : 1/5/2022 1:06 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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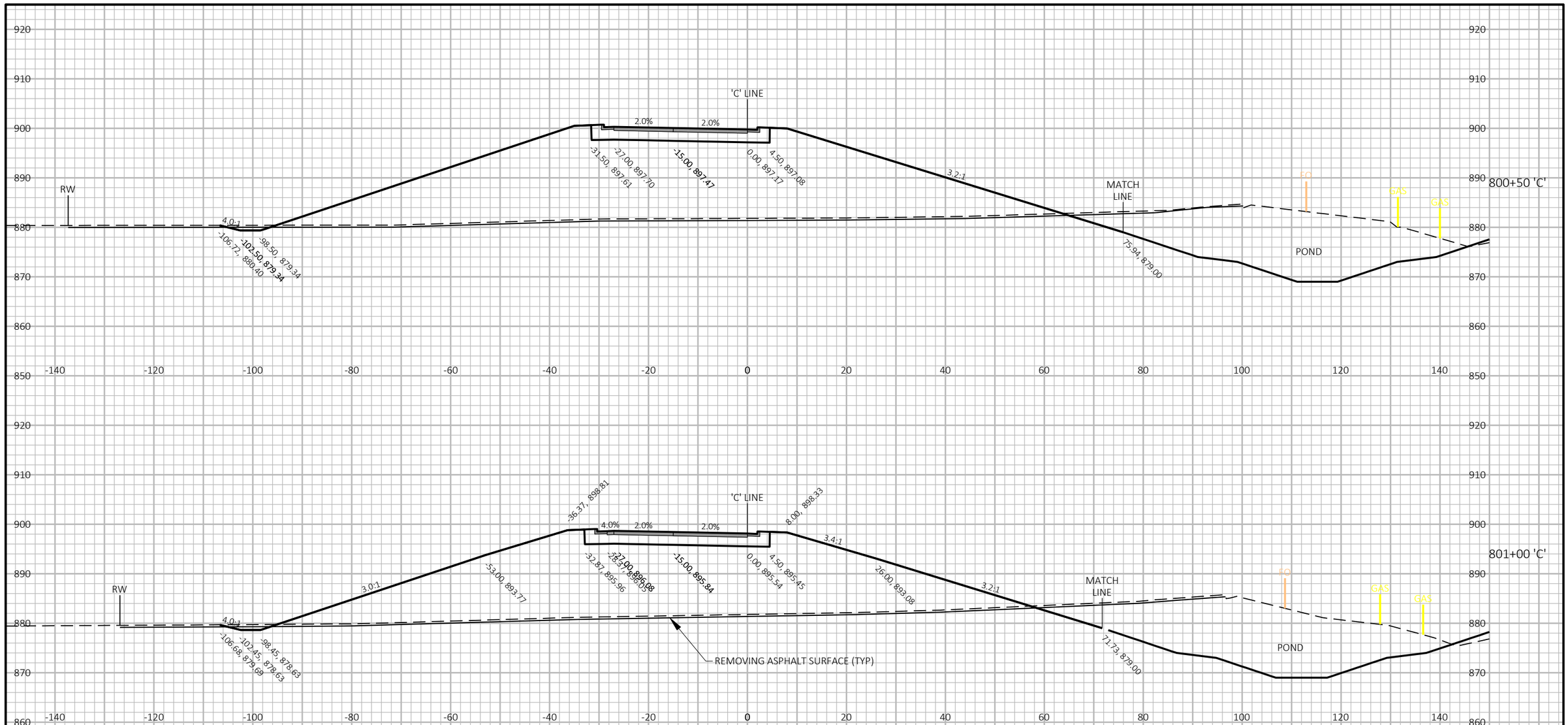
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT)	SHEET 1145	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205A-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - xsc_02

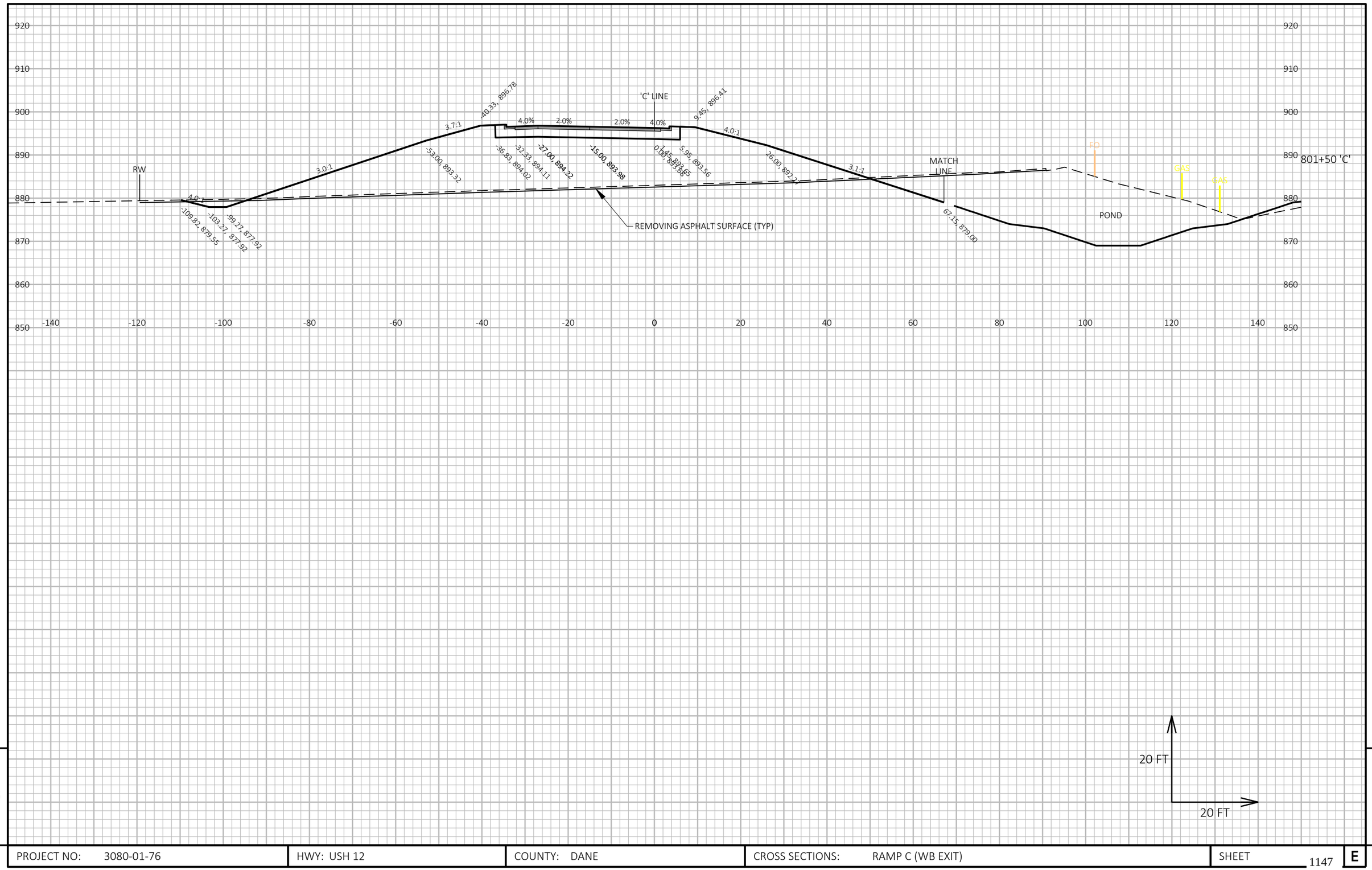
PLOT DATE : 1/5/2022 1:06 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT)	SHEET 1146	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205A-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - xsc_03

PLOT DATE : 1/5/2022 1:06 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

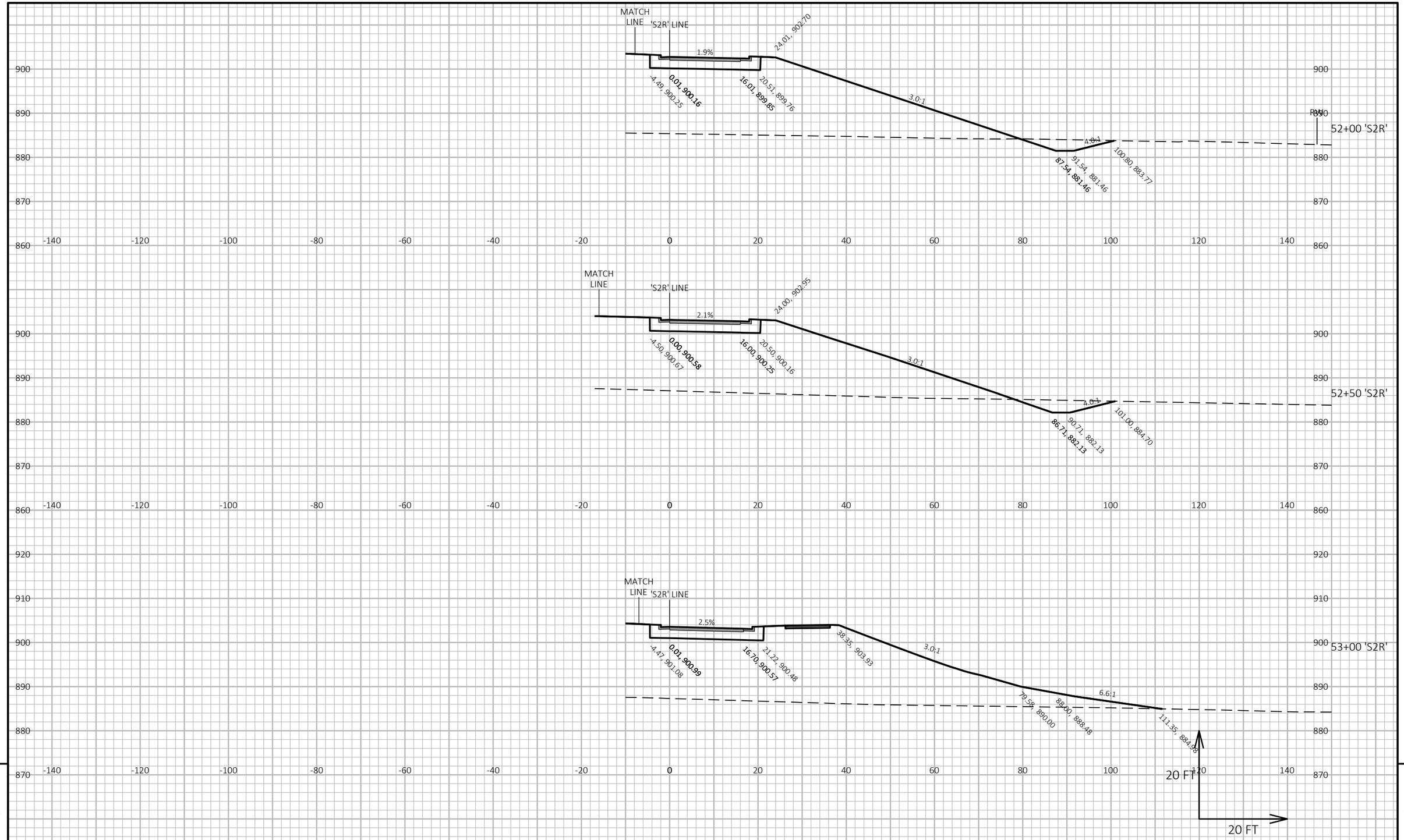


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT)	SHEET 1147	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205A-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - xsc_04

PLOT DATE : 1/5/2022 1:06 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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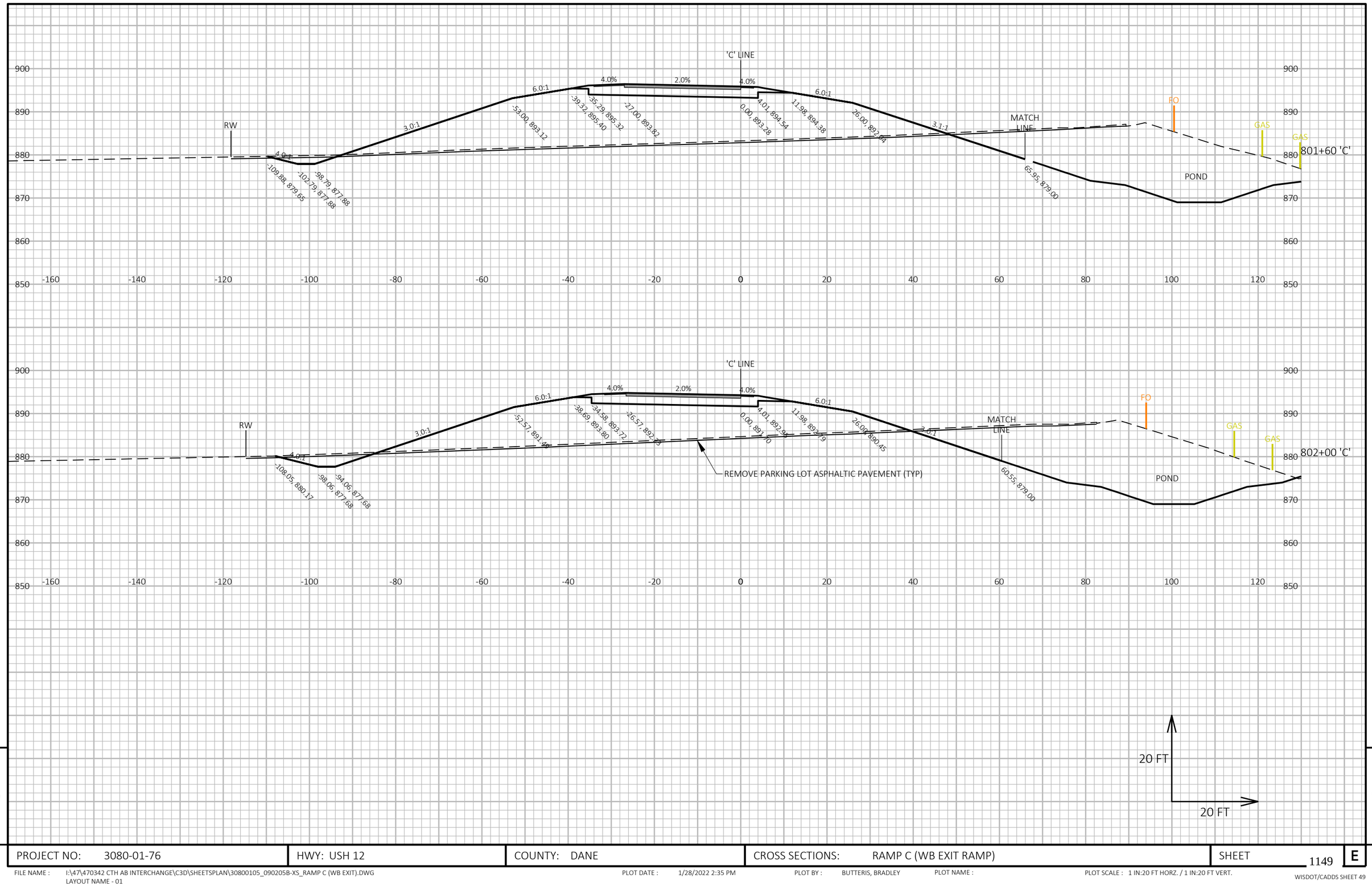
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'S2R' LINE-RAMP C (WB EXIT)	SHEET 1148	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205A-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - x2r_01

PLOT DATE : 1/5/2022 1:06 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

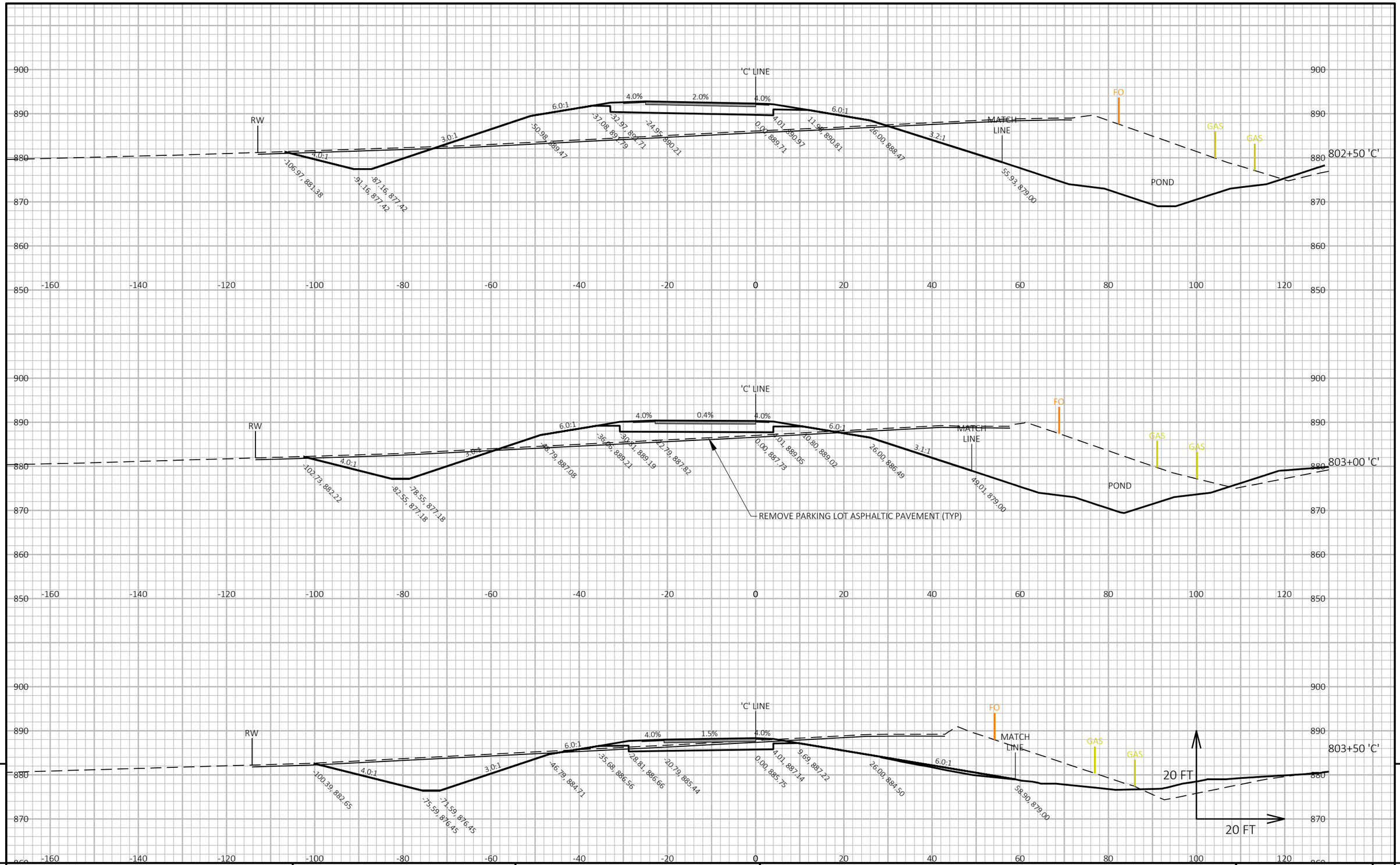


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT RAMP)	SHEET 1149	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205B-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - 01

PLOT DATE : 1/28/2022 2:35 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

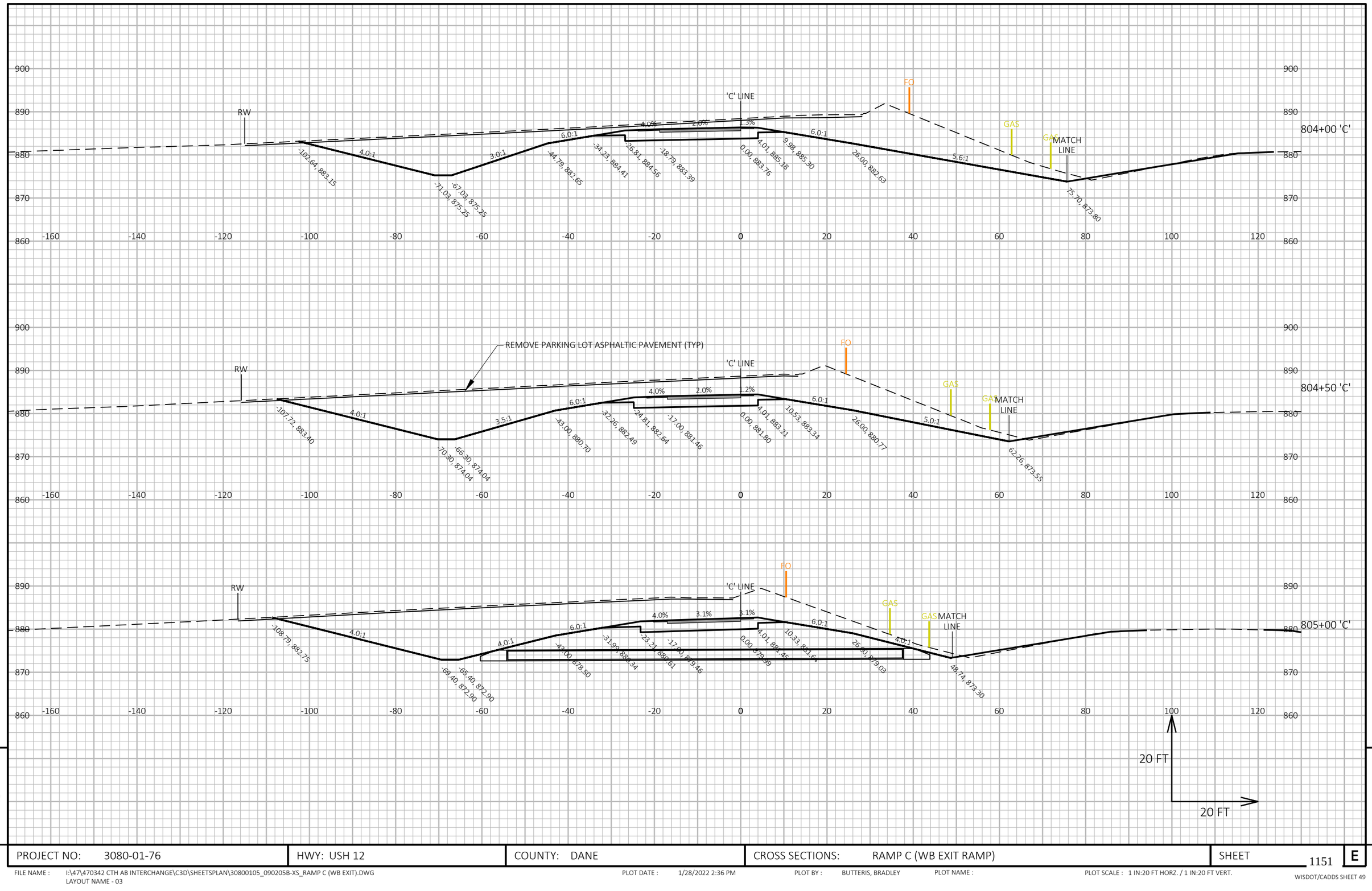


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT RAMP)	SHEET 1150	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205B-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - 02

PLOT DATE : 1/28/2022 2:36 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

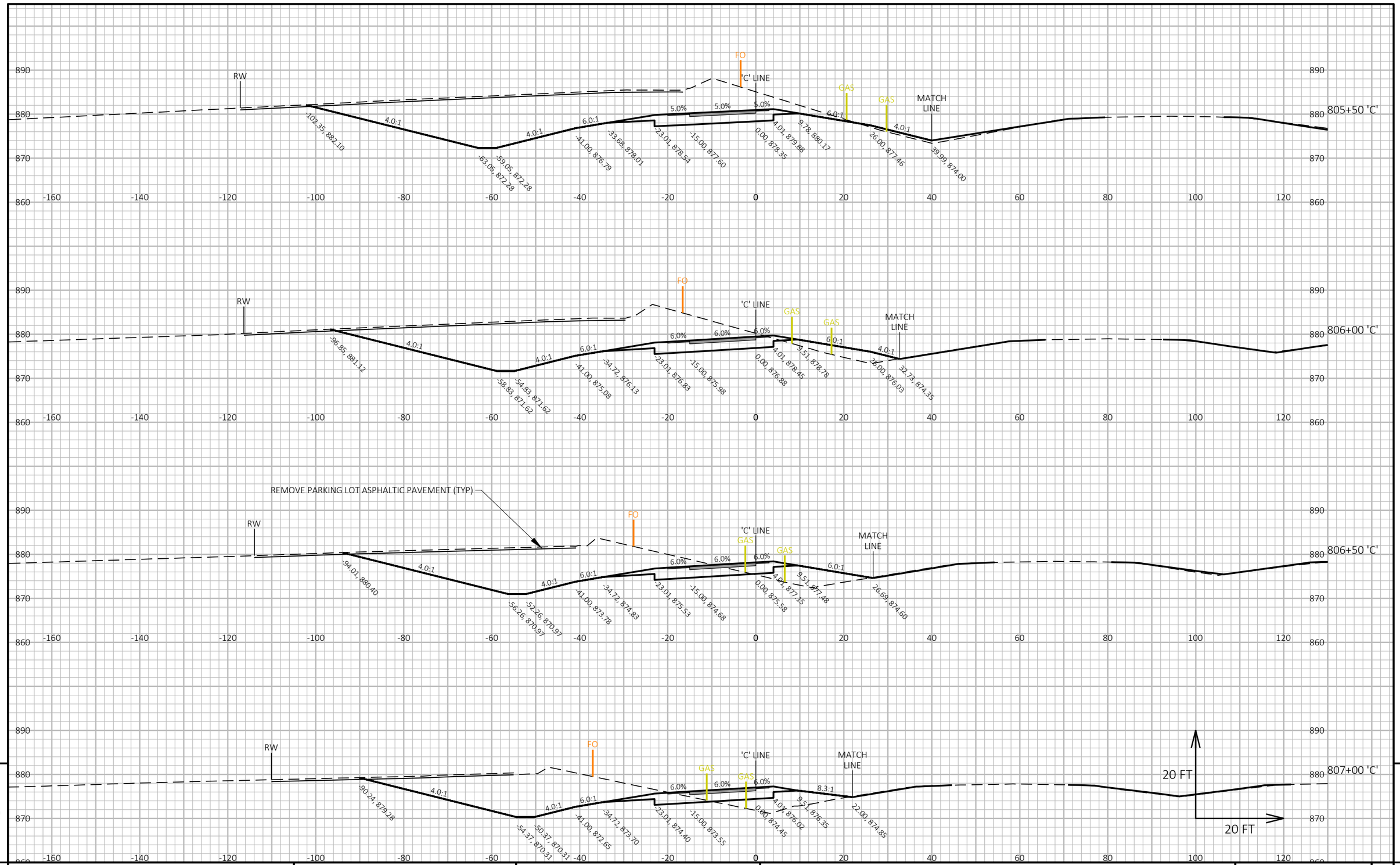


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT RAMP)	SHEET 1151	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205B-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - 03

PLOT DATE : 1/28/2022 2:36 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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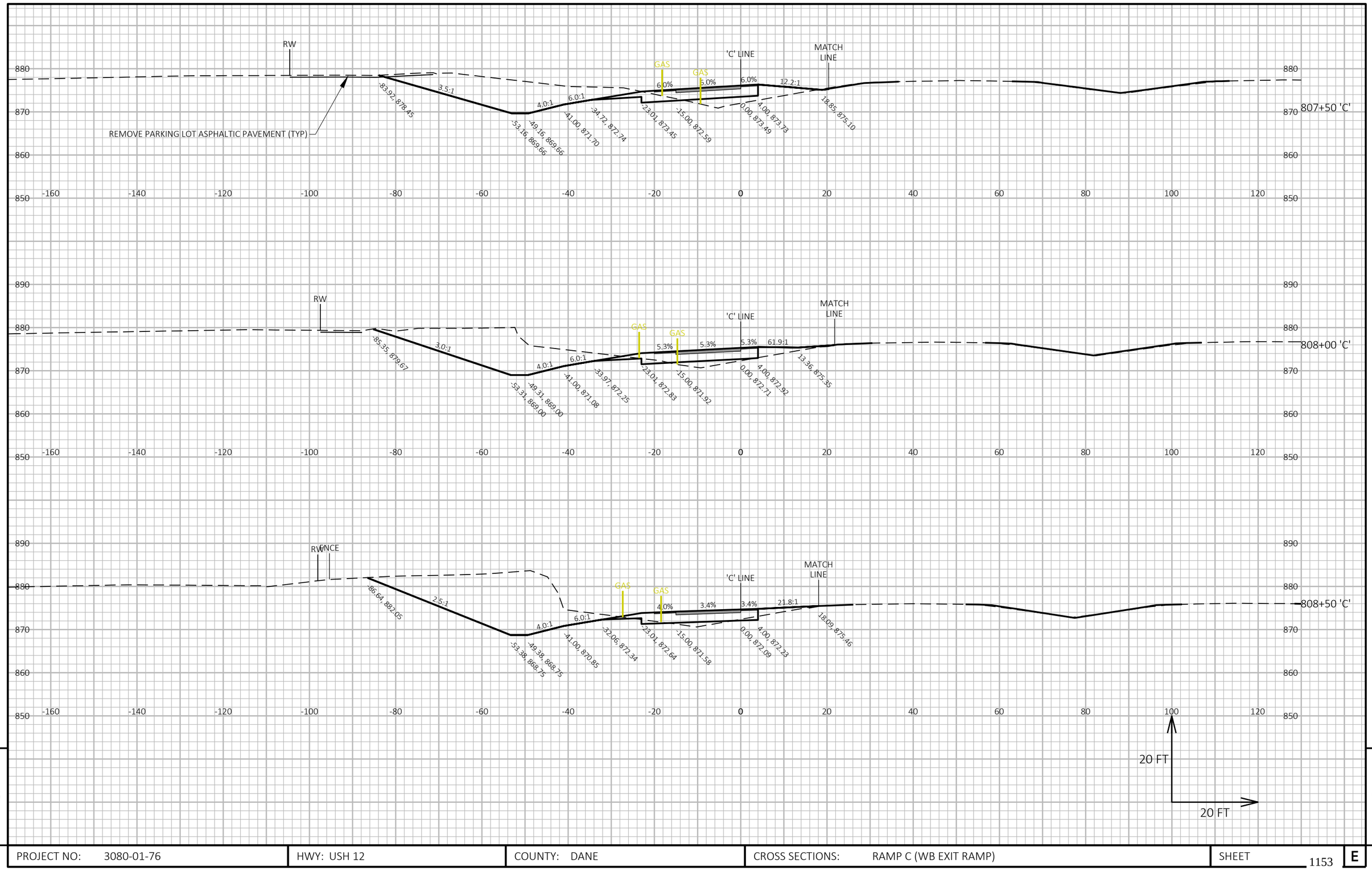
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT RAMP)	SHEET 1152	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205B-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - 04

PLOT DATE : 1/28/2022 2:36 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

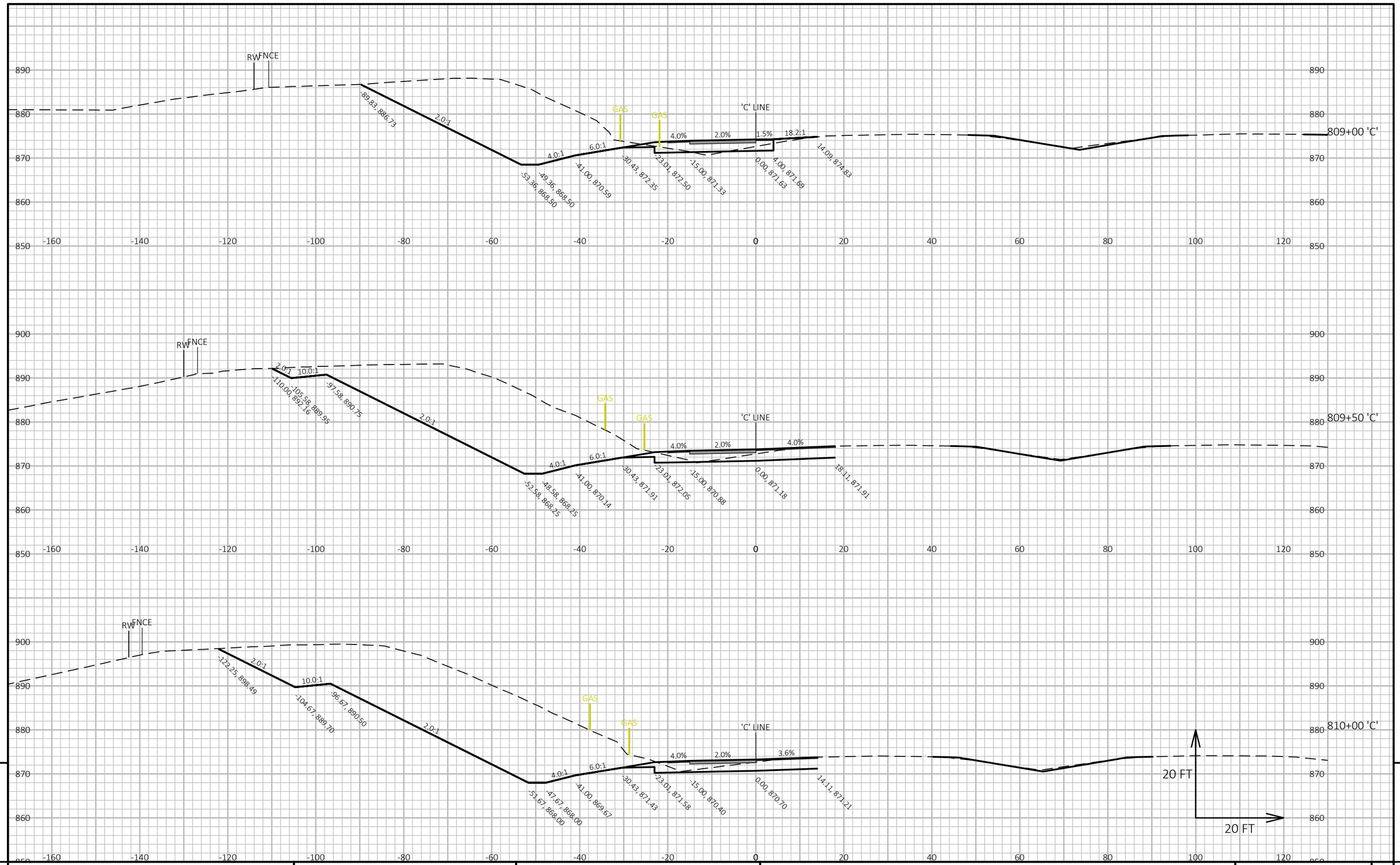


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT RAMP)	SHEET 1153 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205B-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - 05

PLOT DATE : 1/28/2022 2:36 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT RAMP)	SHEET 1154	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205B-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - 06

PLOT DATE : 1/28/2022 2:36 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

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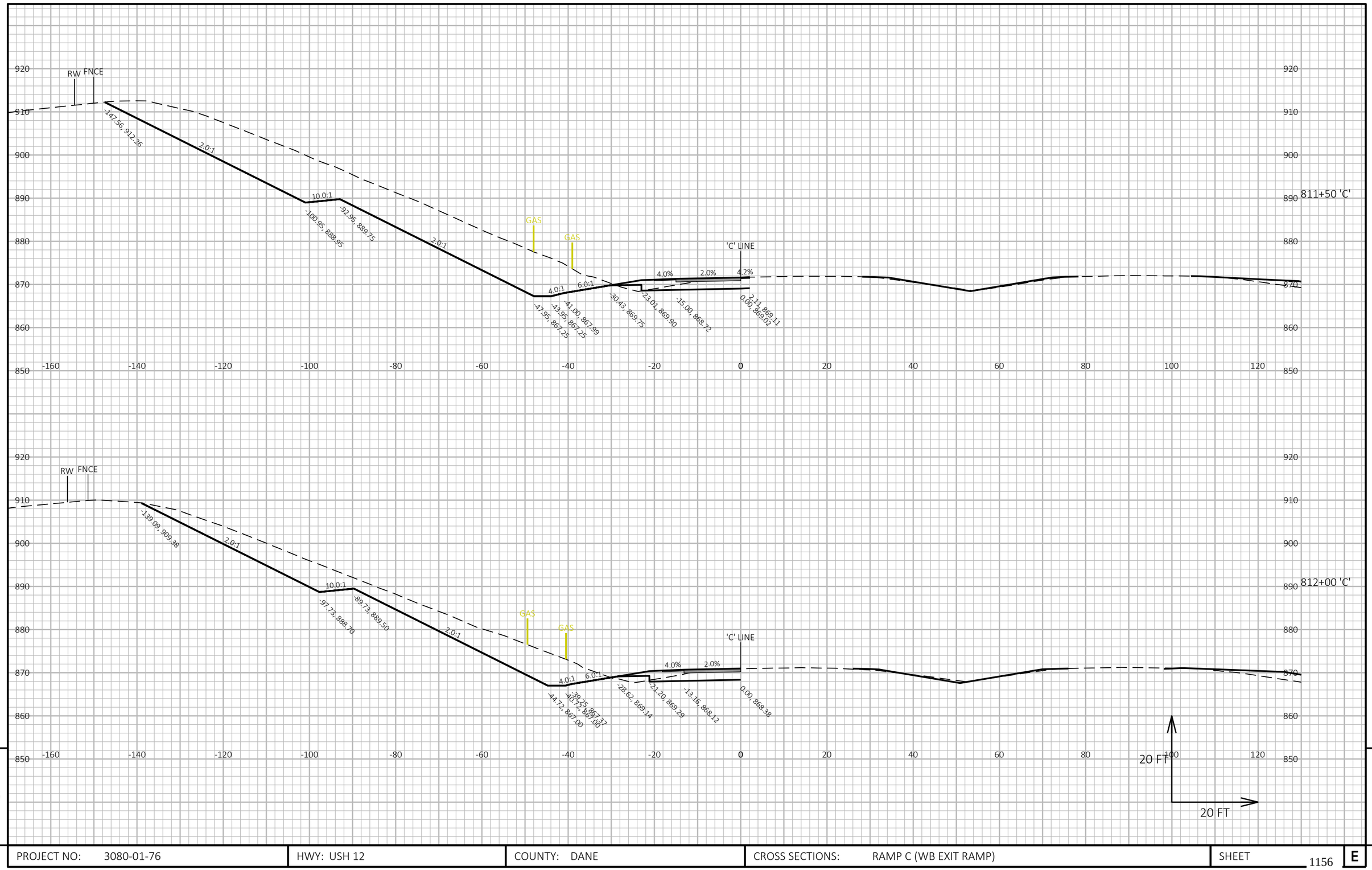
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT RAMP)	SHEET 1155	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205B-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - 07

PLOT DATE : 1/28/2022 2:36 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT RAMP)	SHEET 1156	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205B-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - 08

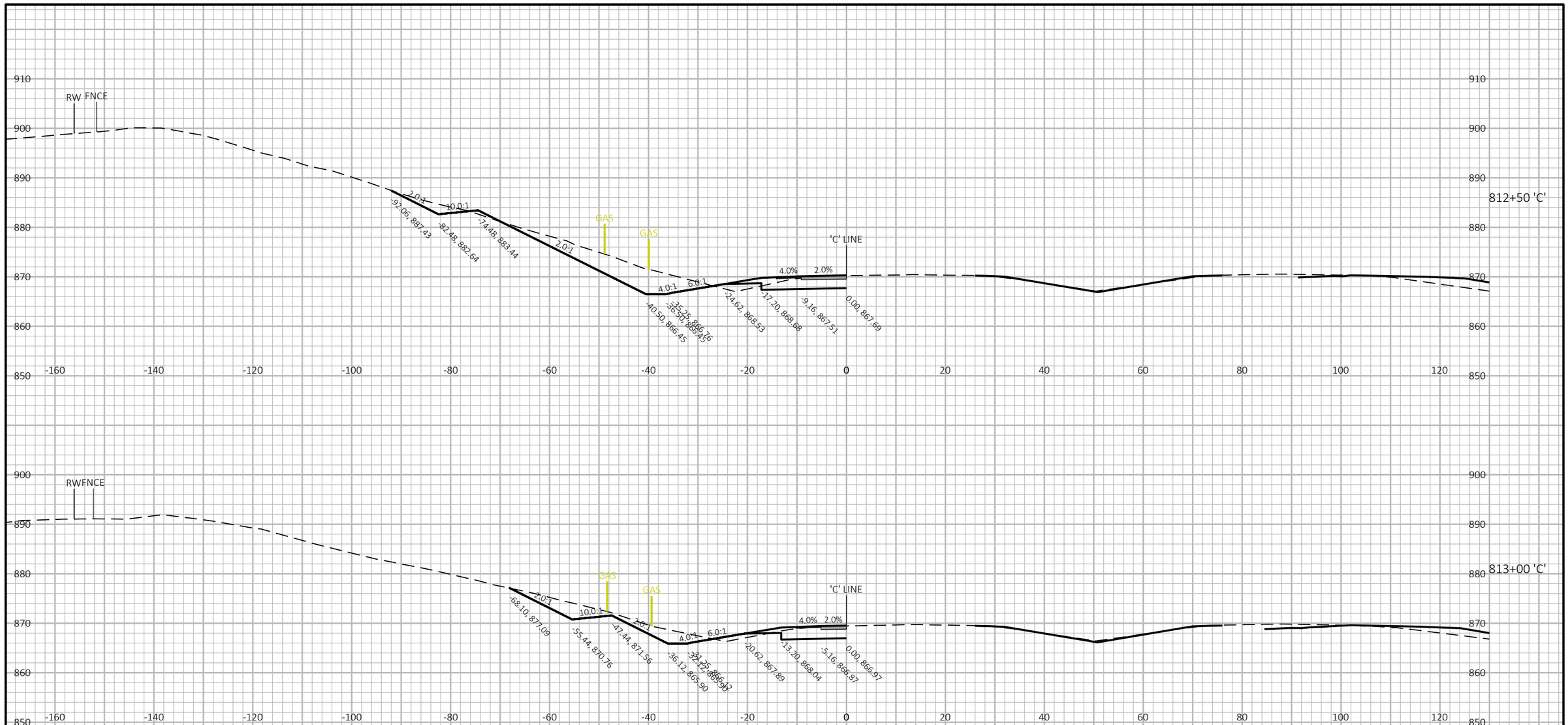
PLOT DATE : 1/28/2022 2:36 PM

PLOT BY : BUTTERIS, BRADLEY

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

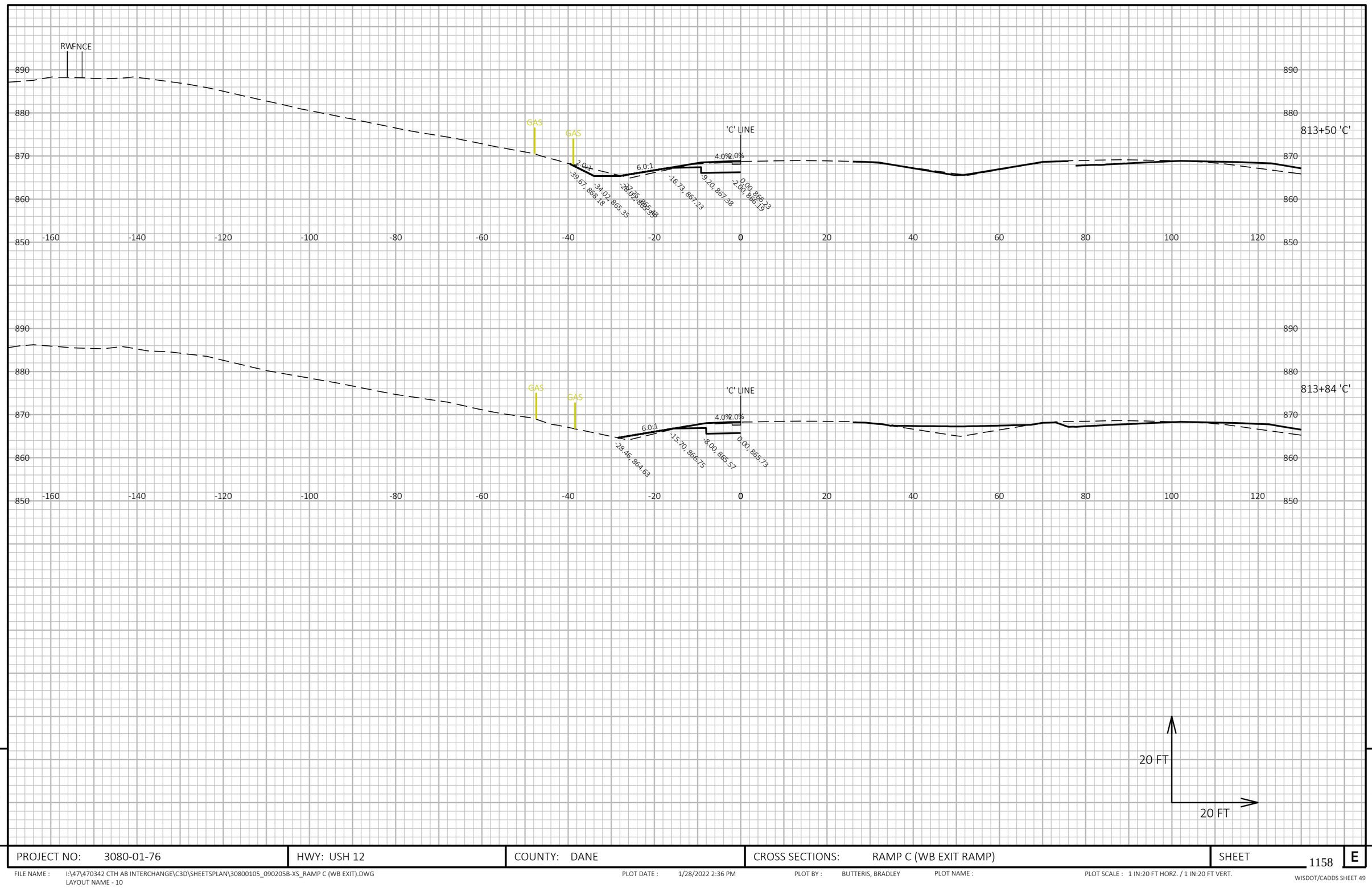


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT RAMP)	SHEET 1157	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205B-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - 09

PLOT DATE : 1/28/2022 2:36 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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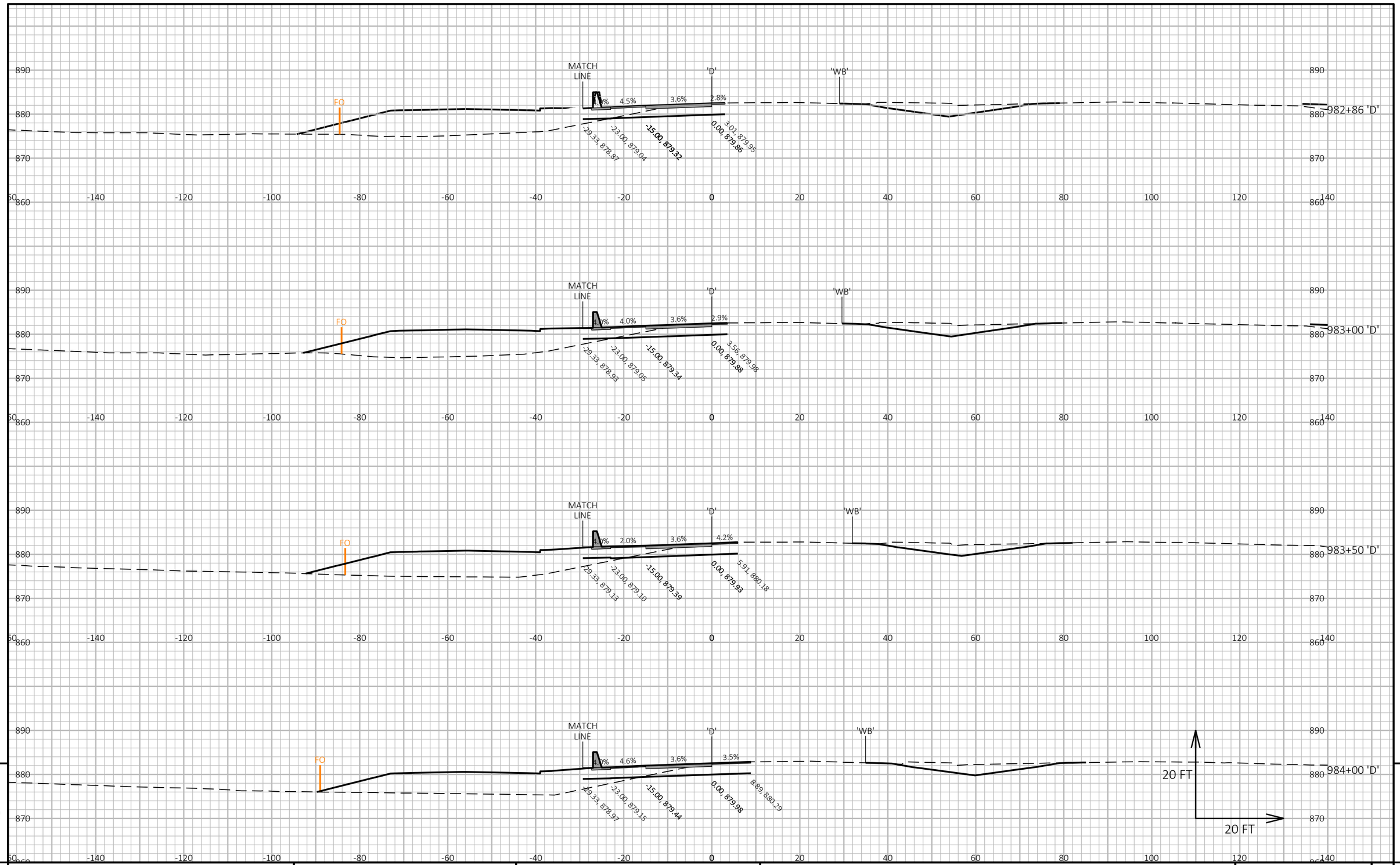
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP C (WB EXIT RAMP)	SHEET 1158	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090205B-XS_RAMP C (WB EXIT).DWG
LAYOUT NAME - 10

PLOT DATE : 1/28/2022 2:36 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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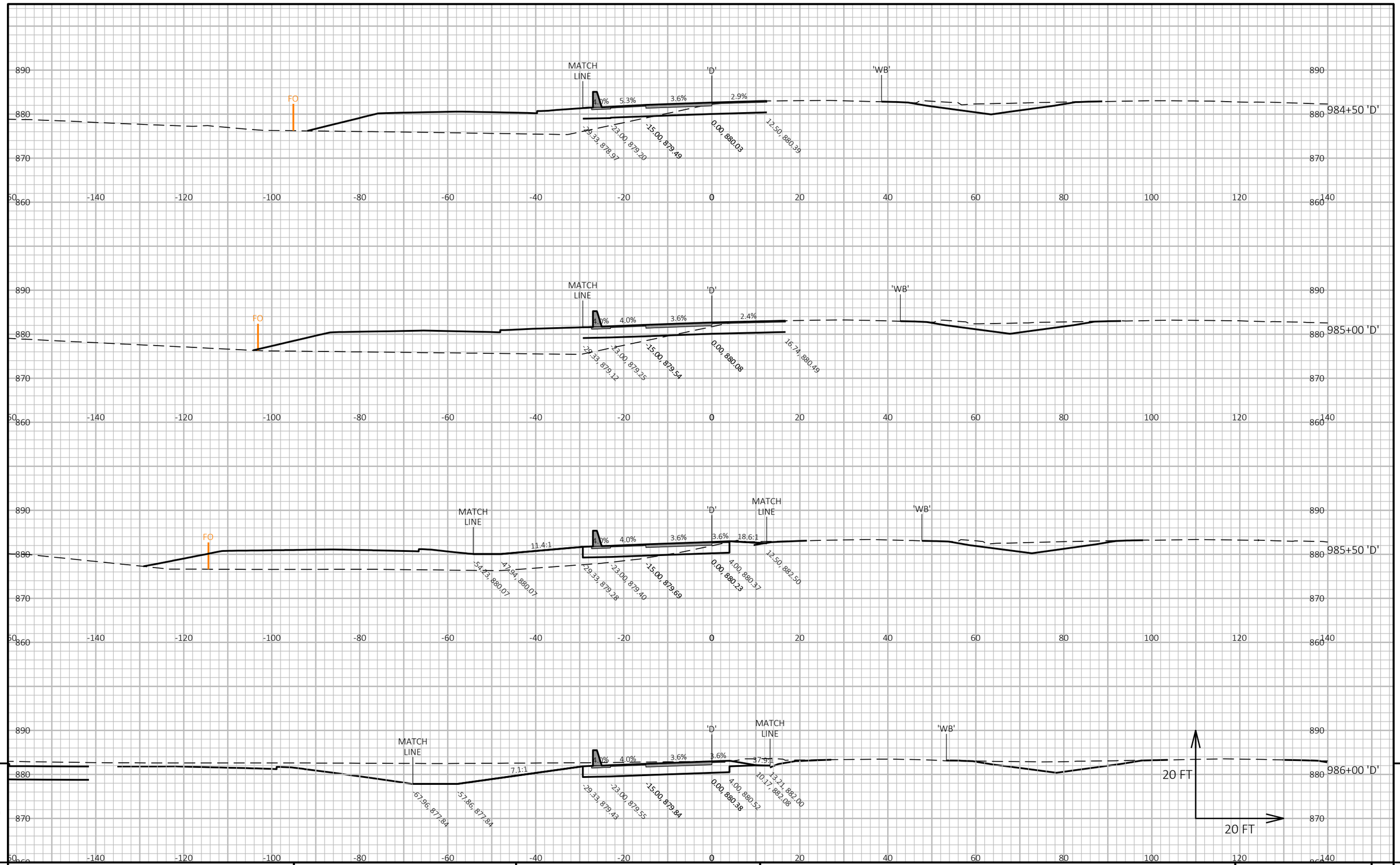
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP D (WB ENTRANCE)	SHEET 1159	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090206-XS_RAMP D (WB ENTRANCE).DWG
LAYOUT NAME - 01

PLOT DATE : 1/10/2022 11:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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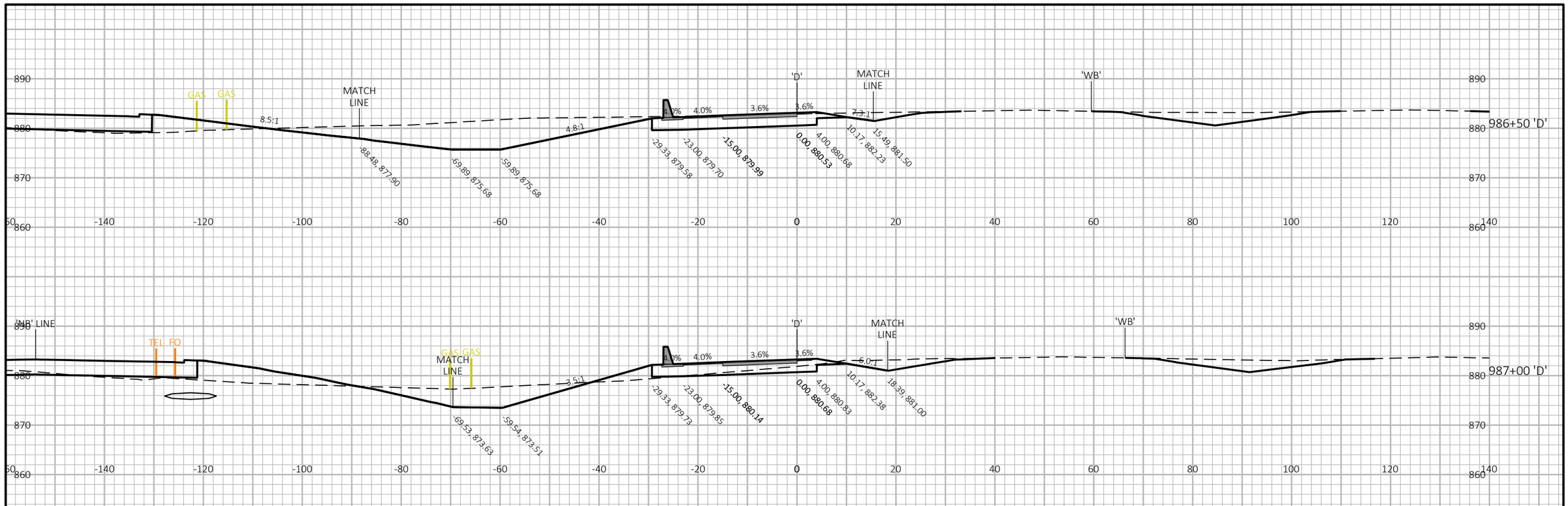
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP D (WB ENTRANCE)	SHEET 1160	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090206-XS_RAMP D (WB ENTRANCE).DWG
LAYOUT NAME - 02

PLOT DATE : 1/10/2022 11:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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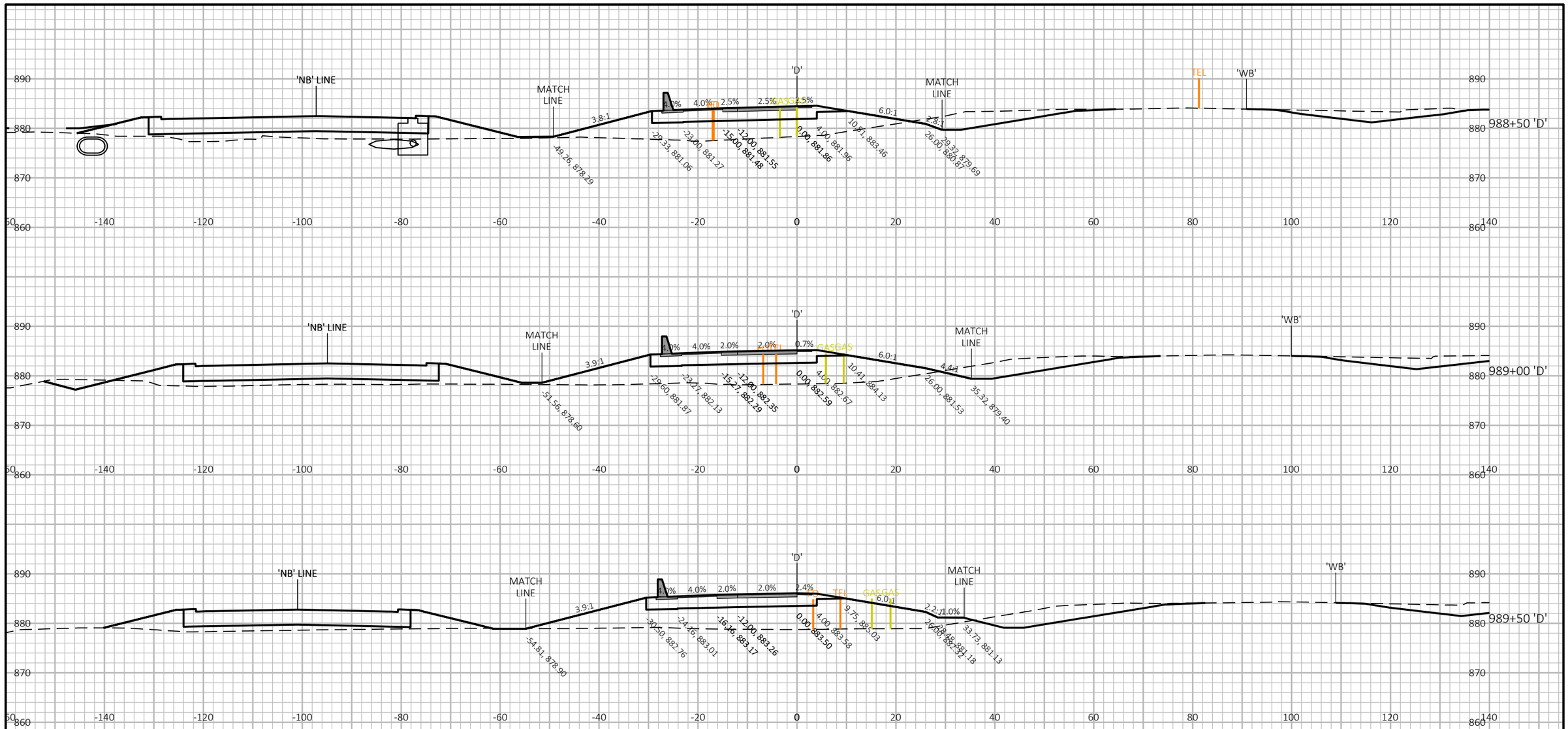
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP D (WB ENTRANCE)	SHEET 1161	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090206-XS_RAMP D (WB ENTRANCE).DWG
LAYOUT NAME - 03

PLOT DATE : 1/10/2022 11:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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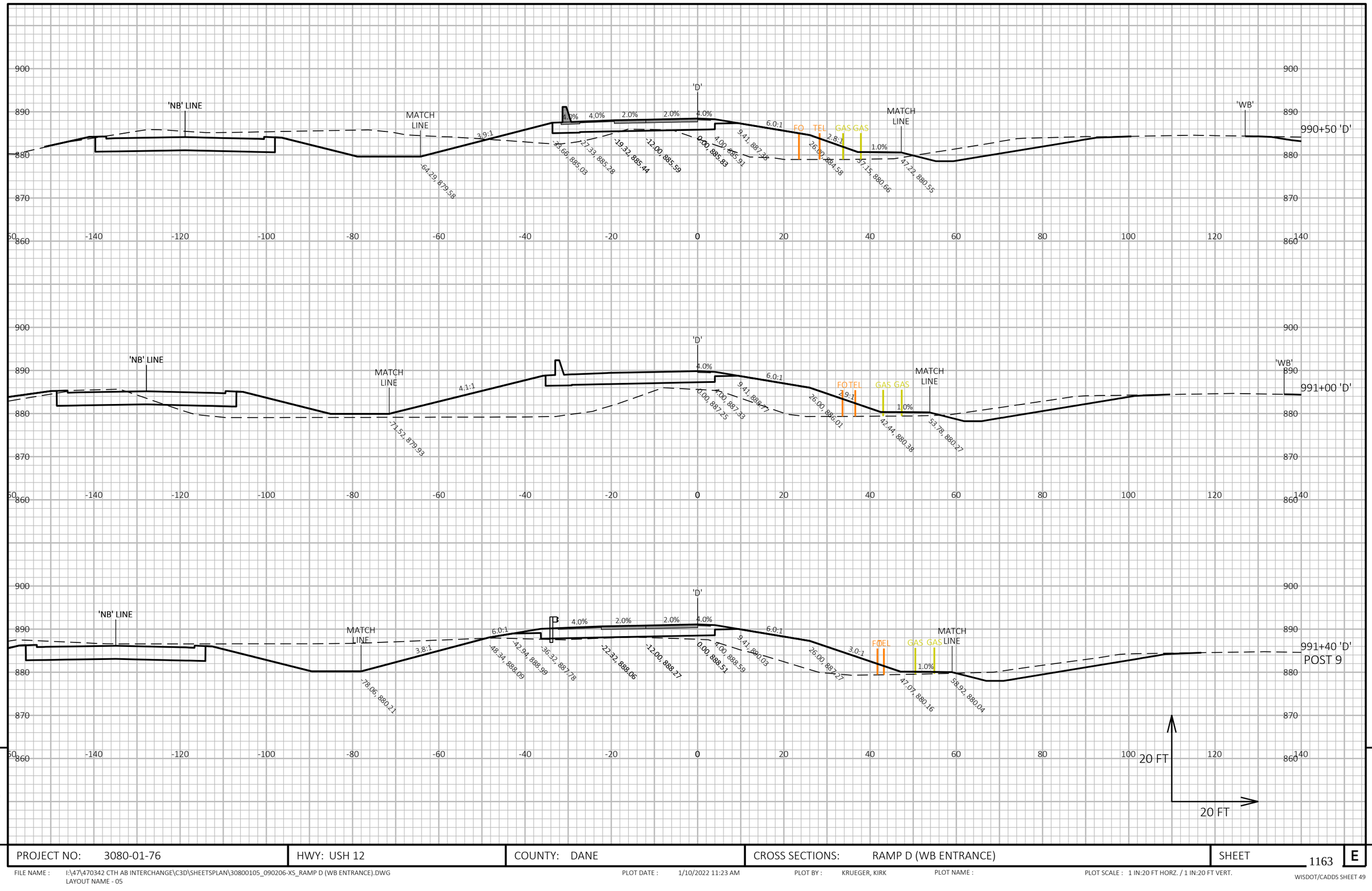
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP D (WB ENTRANCE)	SHEET 1162	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090206-XS_RAMP D (WB ENTRANCE).DWG
LAYOUT NAME - 04

PLOT DATE : 1/10/2022 11:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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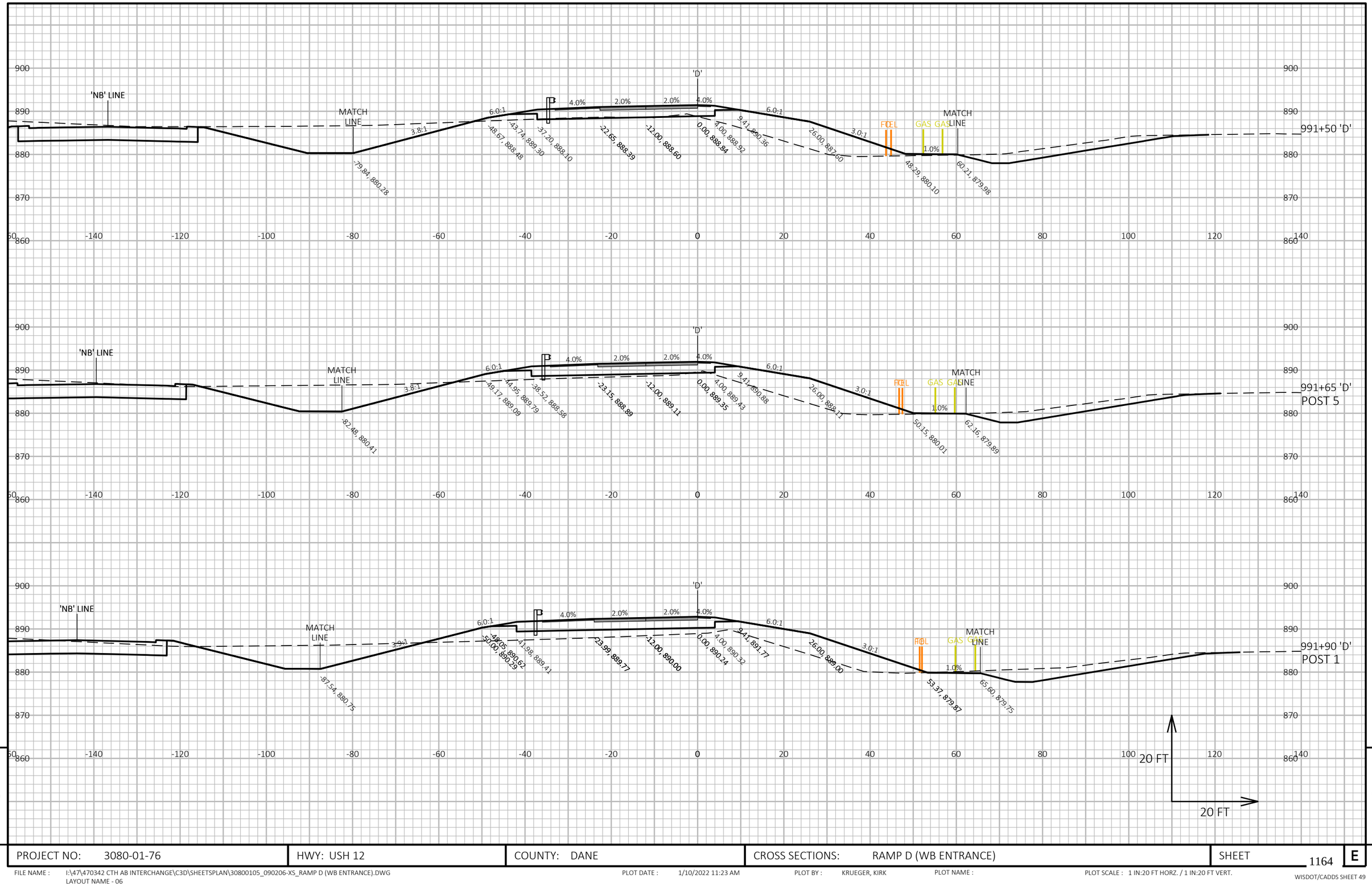
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP D (WB ENTRANCE)	SHEET 1163	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090206-XS_RAMP D (WB ENTRANCE).DWG
LAYOUT NAME - 05

PLOT DATE : 1/10/2022 11:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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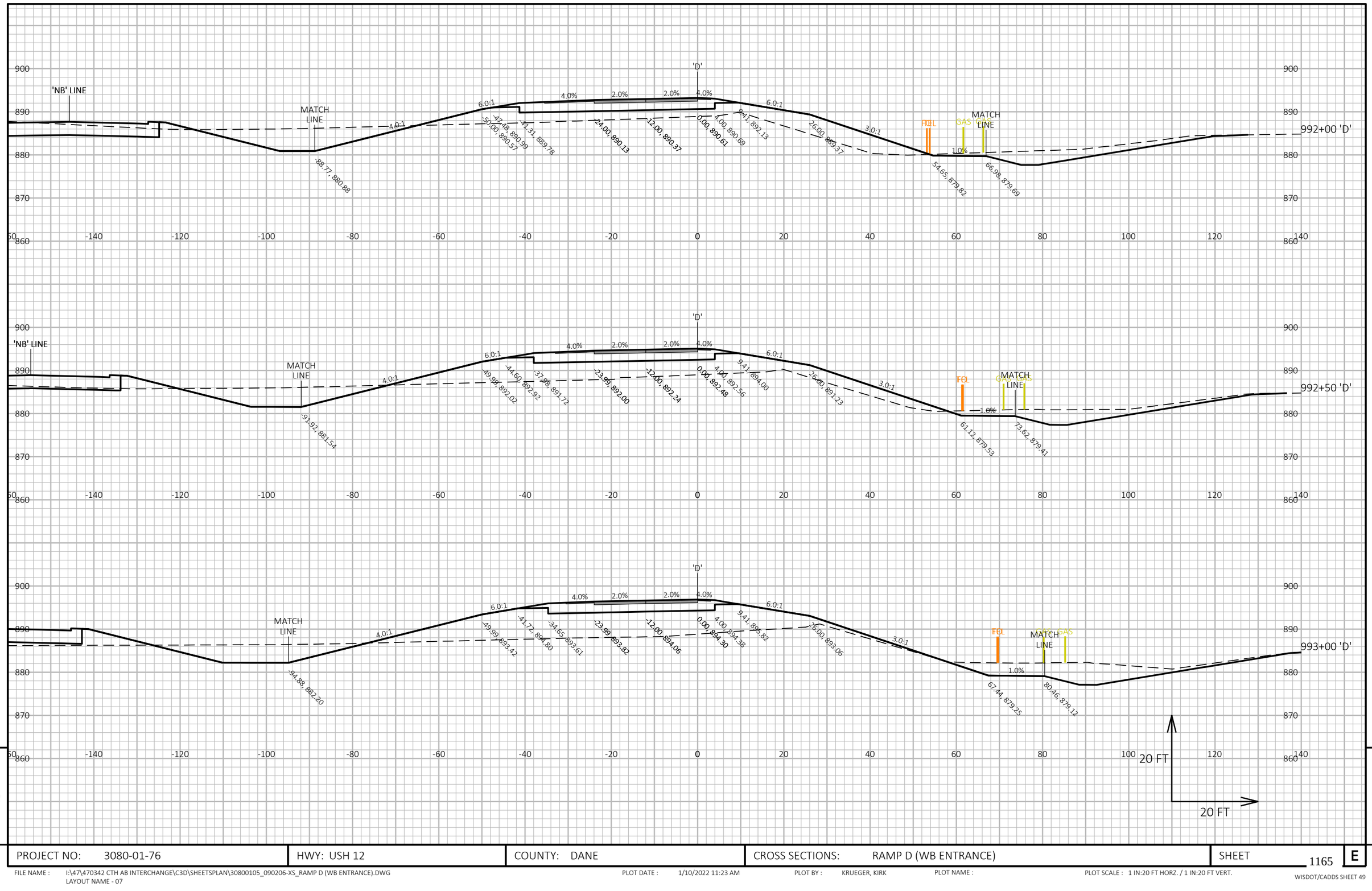
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP D (WB ENTRANCE)	SHEET 1164	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090206-XS_RAMP D (WB ENTRANCE).DWG
LAYOUT NAME - 06

PLOT DATE : 1/10/2022 11:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

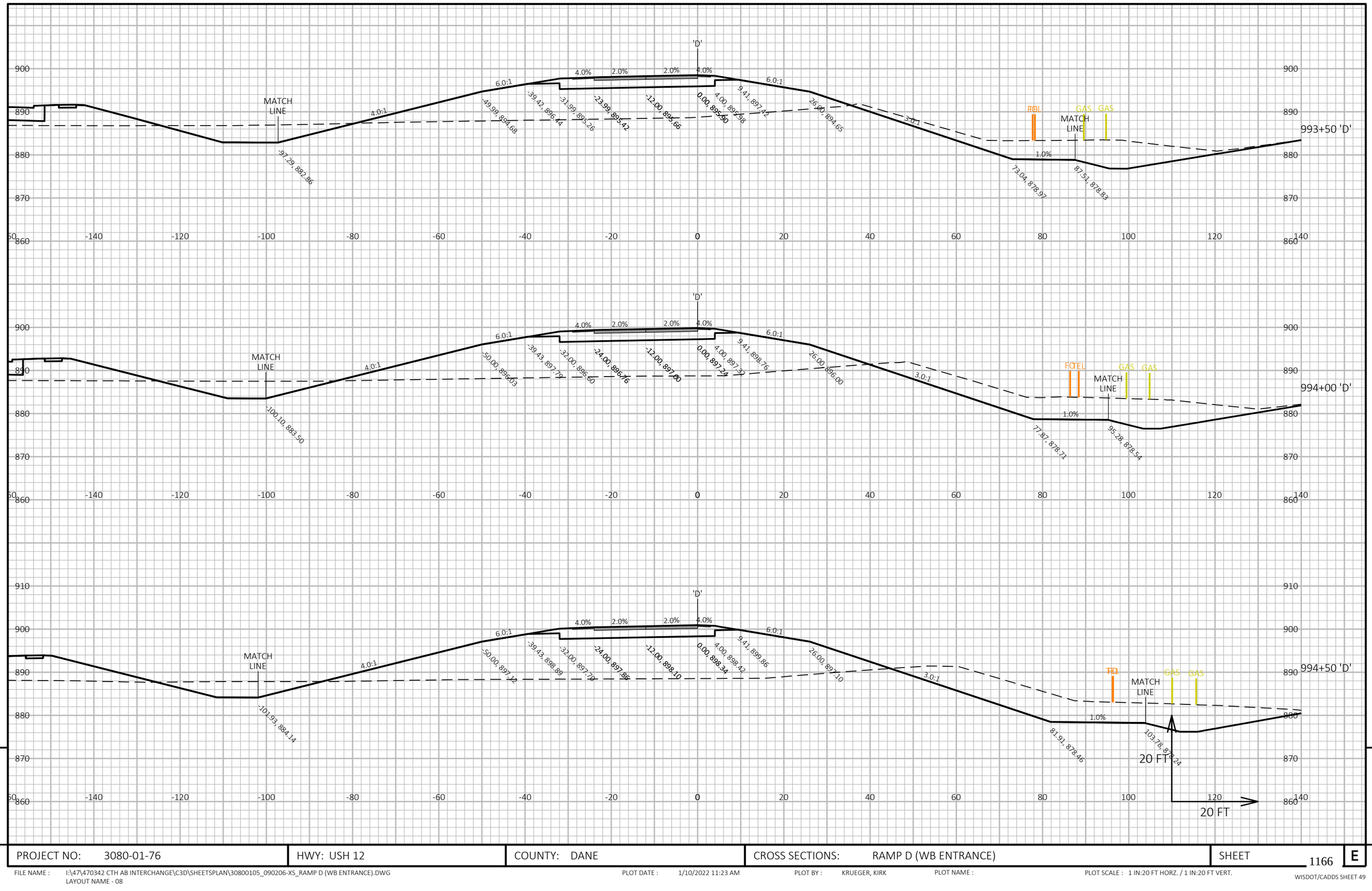


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP D (WB ENTRANCE)	SHEET 1165	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090206-XS_RAMP D (WB ENTRANCE).DWG
LAYOUT NAME - 07

PLOT DATE : 1/10/2022 11:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

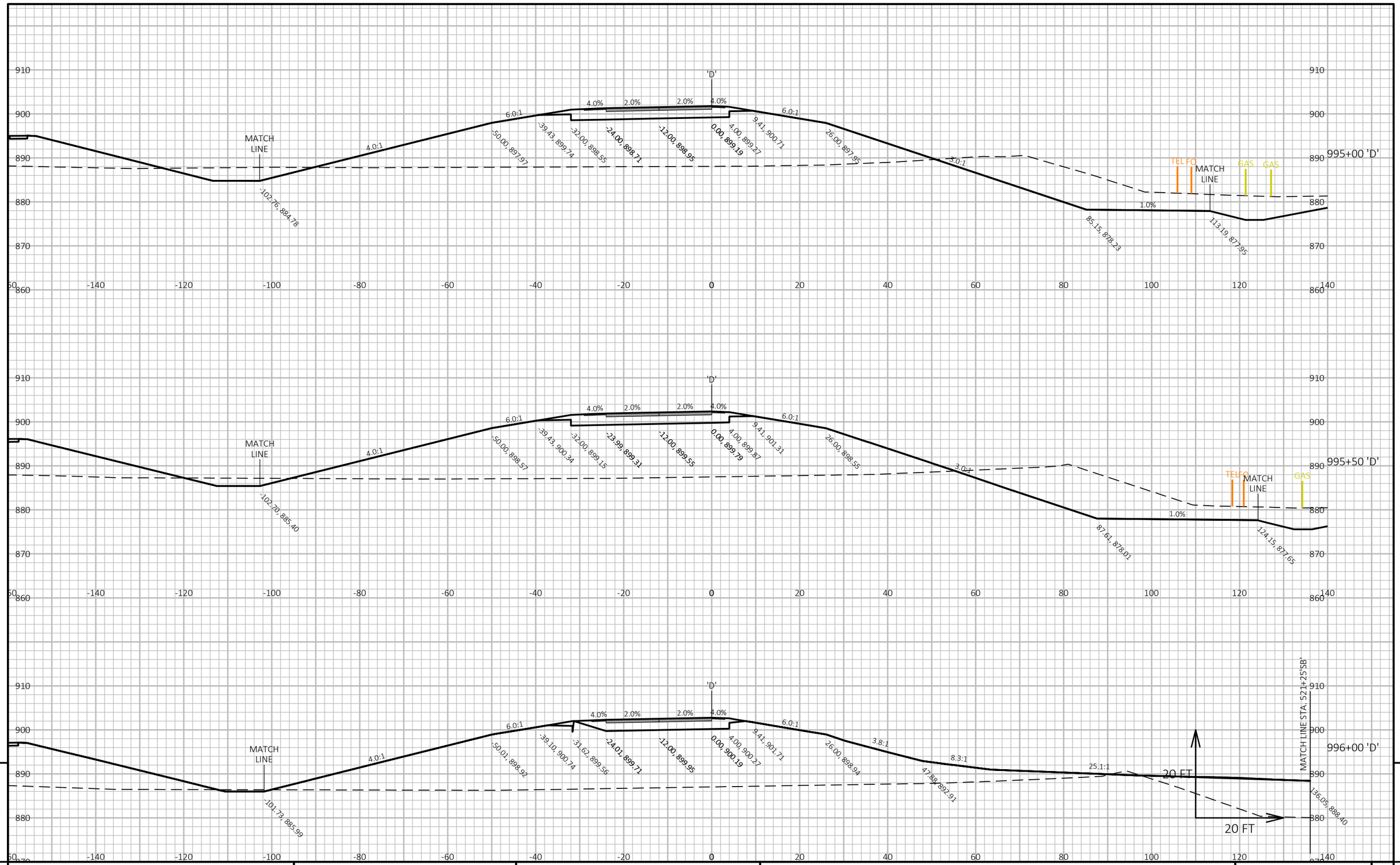


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP D (WB ENTRANCE)	SHEET 1166 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090206-XS_RAMP D (WB ENTRANCE).DWG
LAYOUT NAME - 08

PLOT DATE : 1/10/2022 11:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

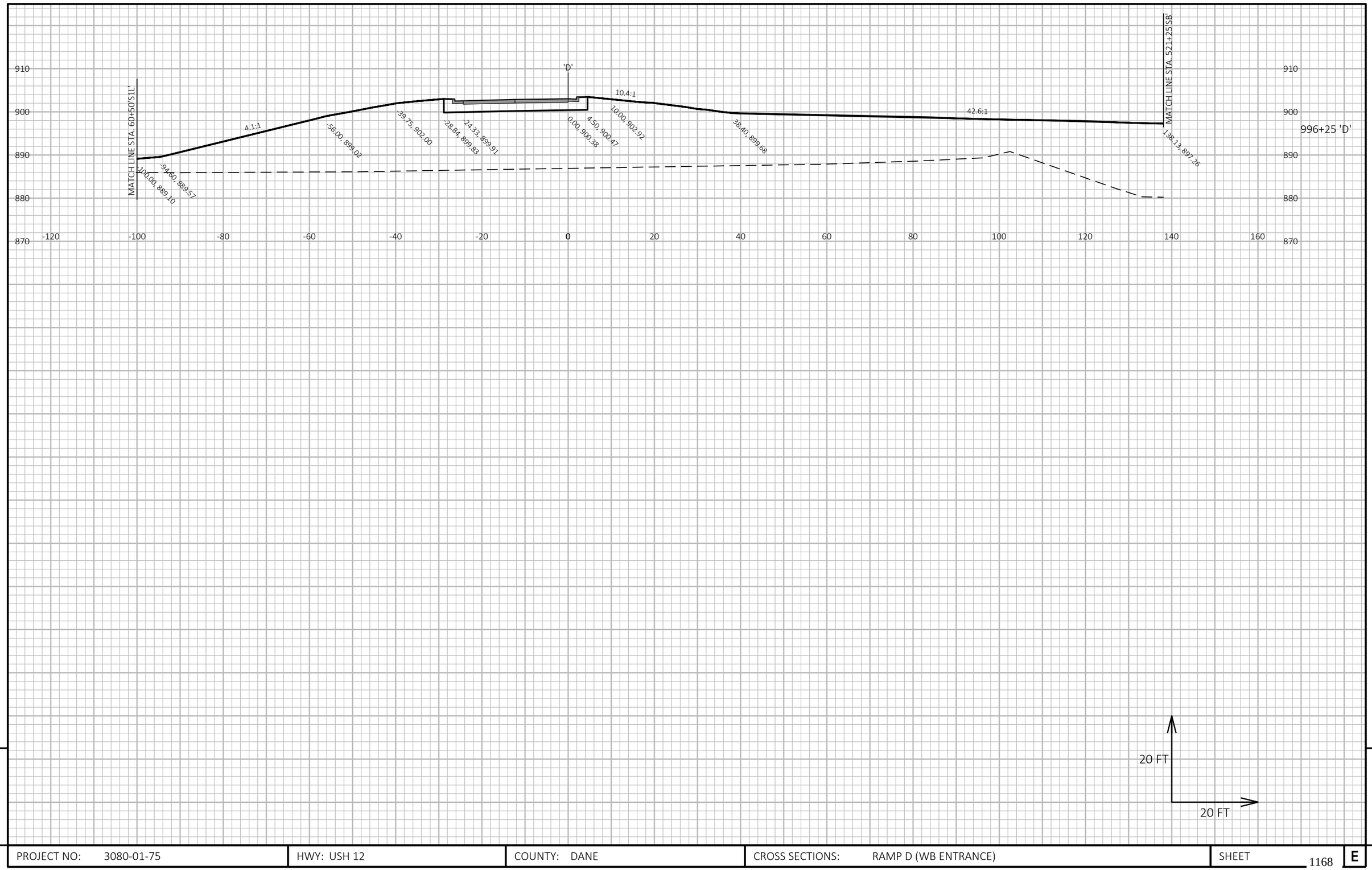


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP D (WB ENTRANCE)	SHEET 1167 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090206-XS_RAMP D (WB ENTRANCE).DWG
LAYOUT NAME - 09

PLOT DATE : 1/10/2022 11:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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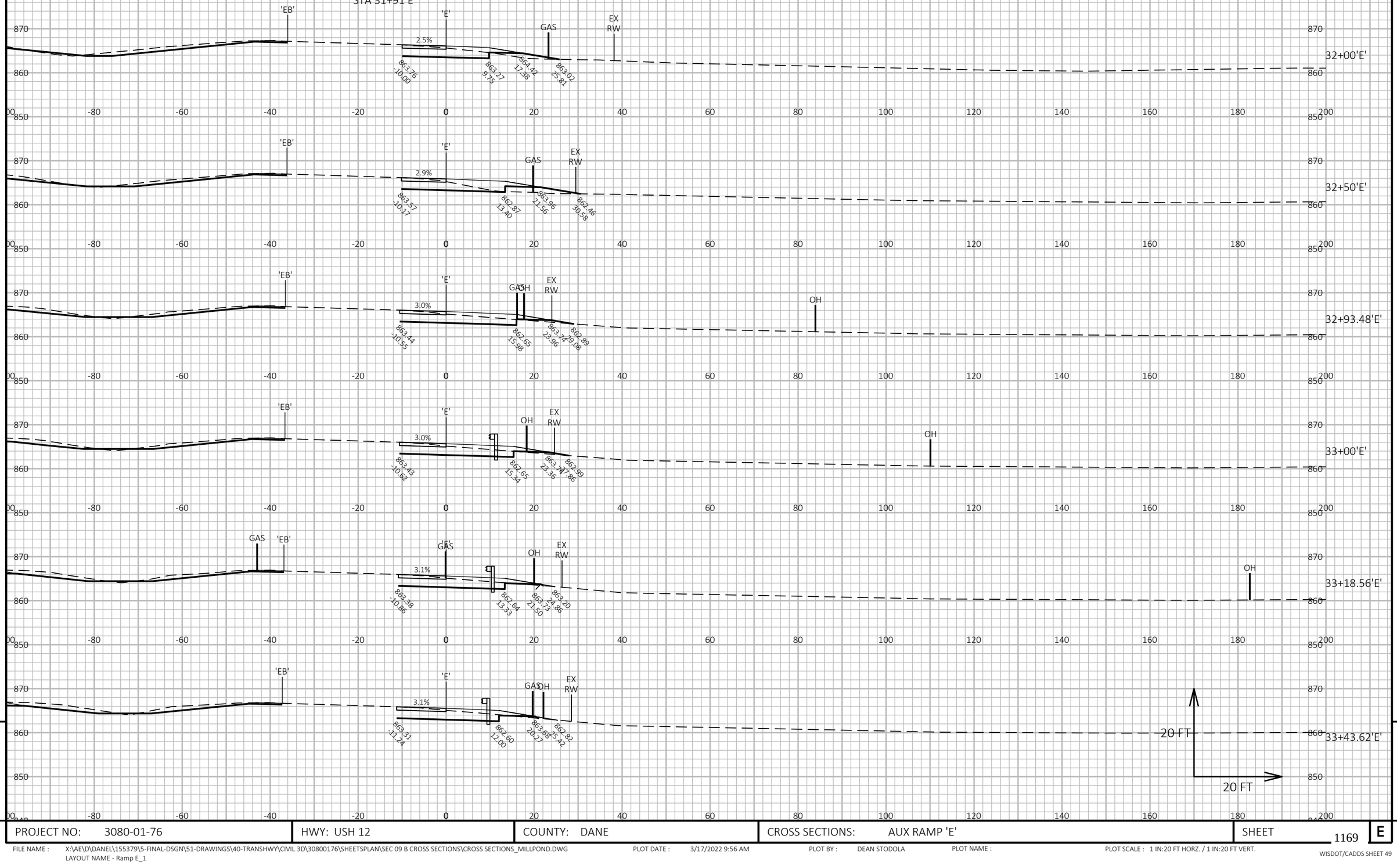
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP D (WB ENTRANCE)	SHEET 1168	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090206-XS_RAMP D (WB ENTRANCE).DWG
LAYOUT NAME - 10

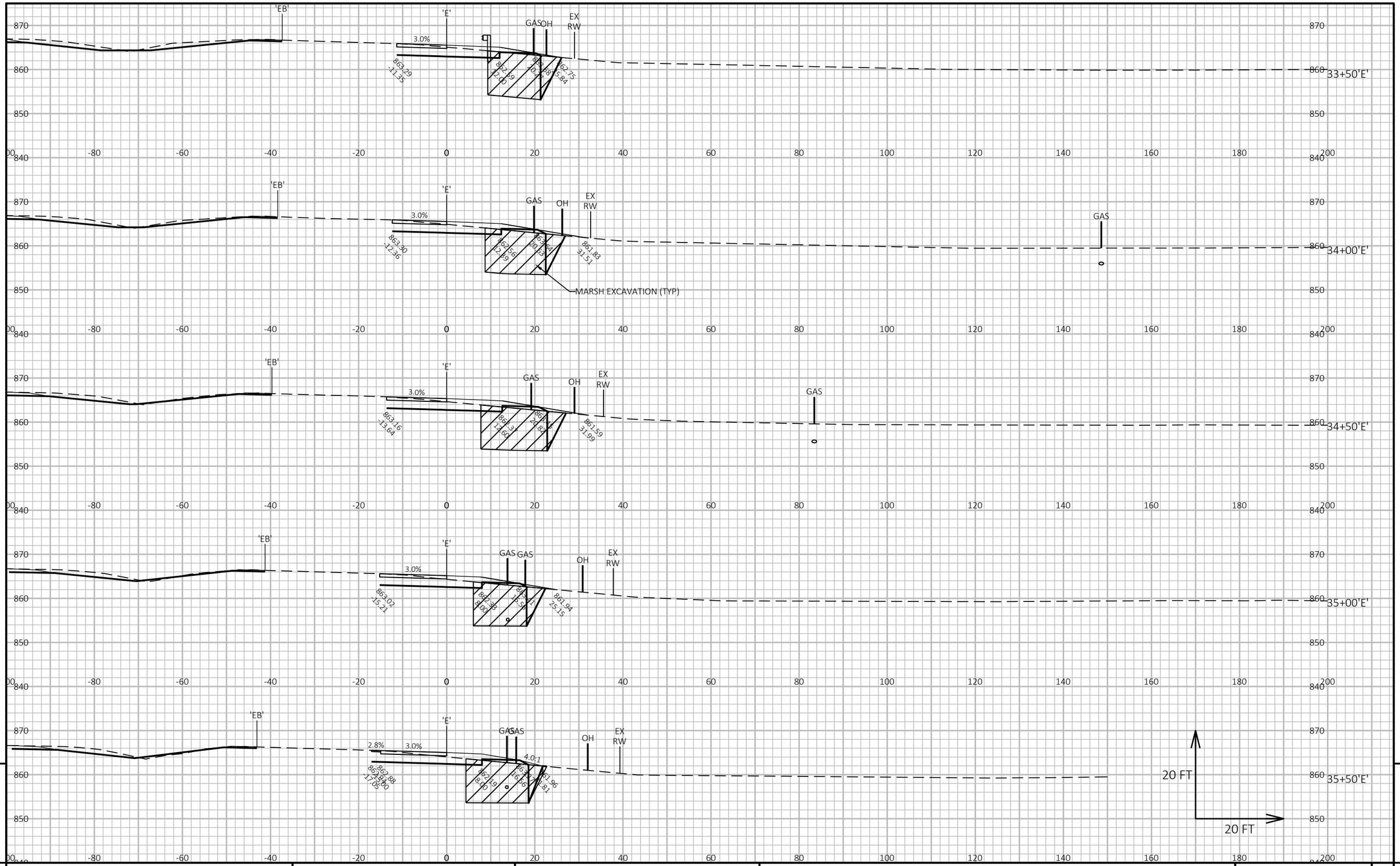
PLOT DATE : 1/10/2022 11:23 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

BEGIN RAMP 'E' CONSTRUCTION
STA 31+91'E'



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: AUX RAMP 'E'	SHEET 1169	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Ramp E_1
PLOT DATE : 3/17/2022 9:56 AM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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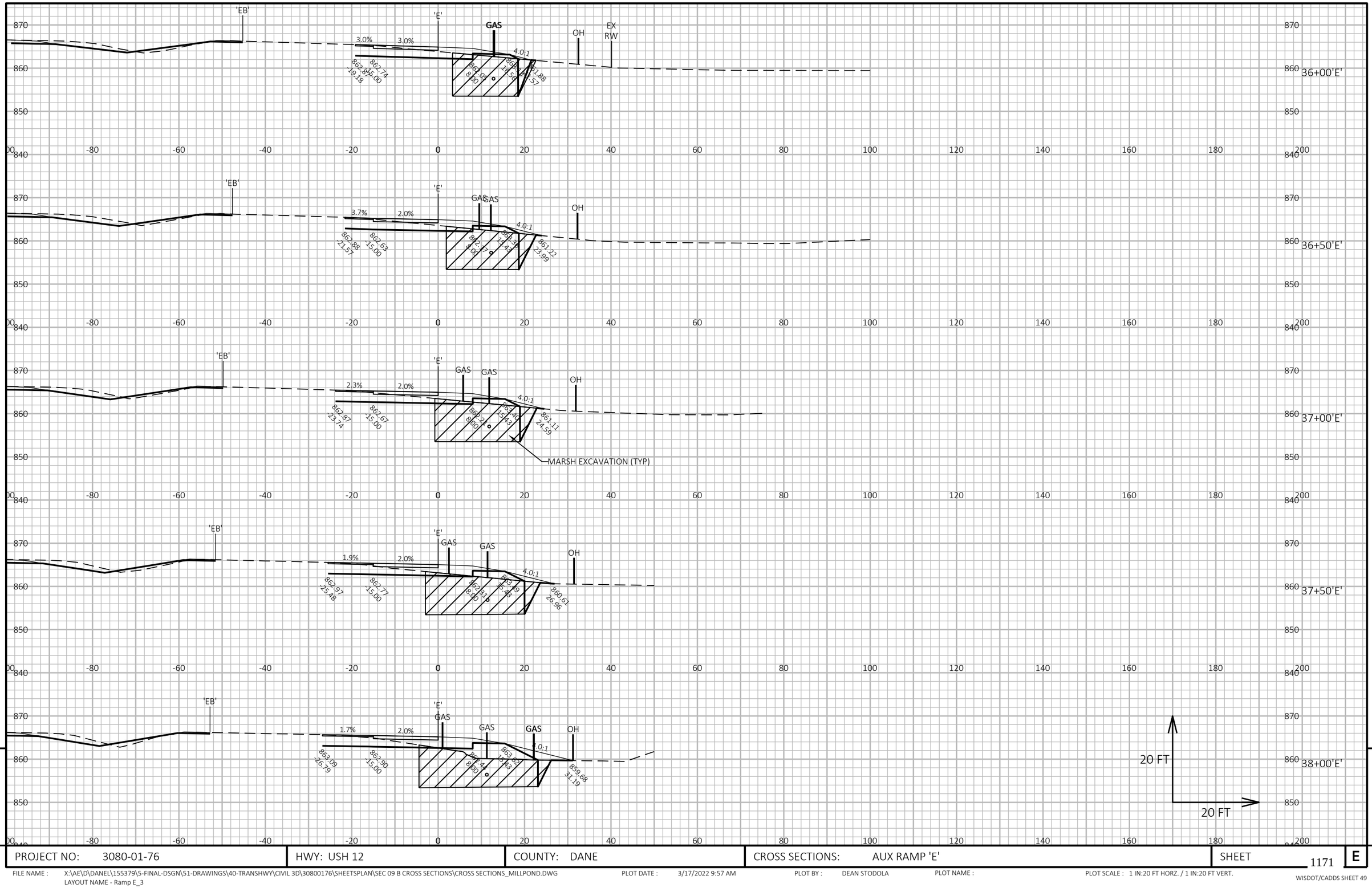
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: AUX RAMP 'E'	SHEET 1170	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Ramp E_2
PLOT DATE : 3/17/2022 9:56 AM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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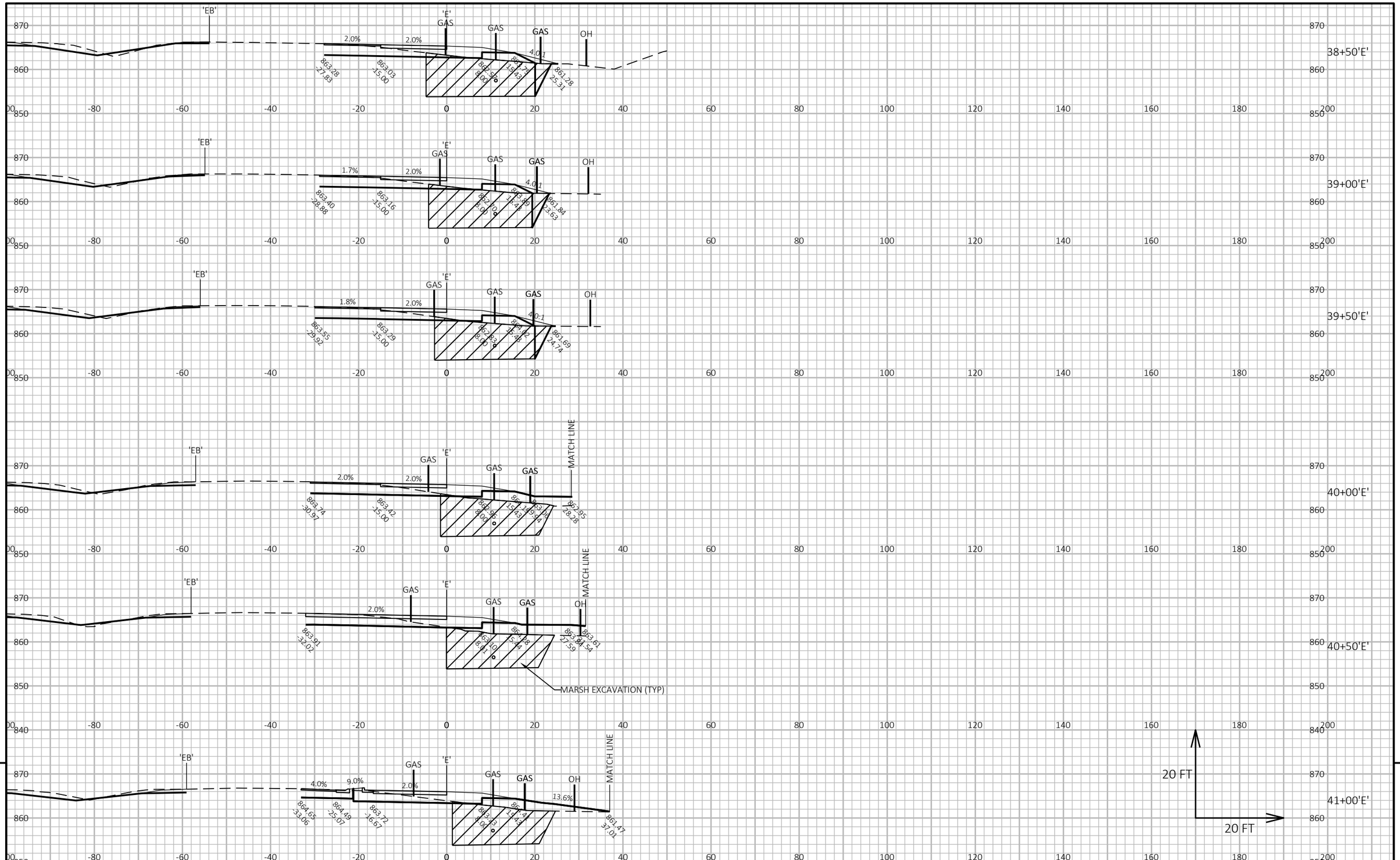
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: AUX RAMP 'E'	SHEET 1171	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Ramp E_3
PLOT DATE : 3/17/2022 9:57 AM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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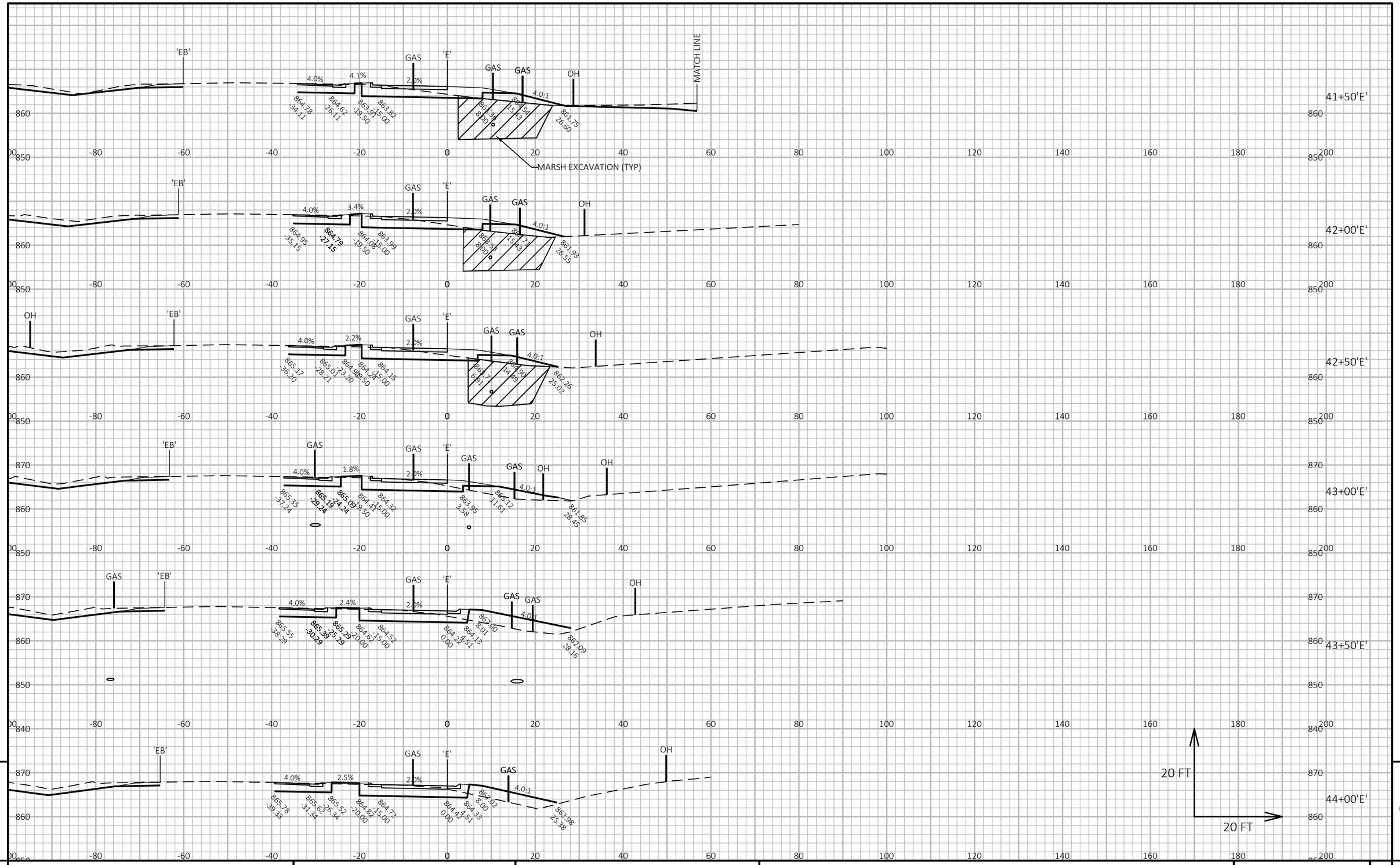
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: AUX RAMP 'E'	SHEET 1172	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Ramp E_4

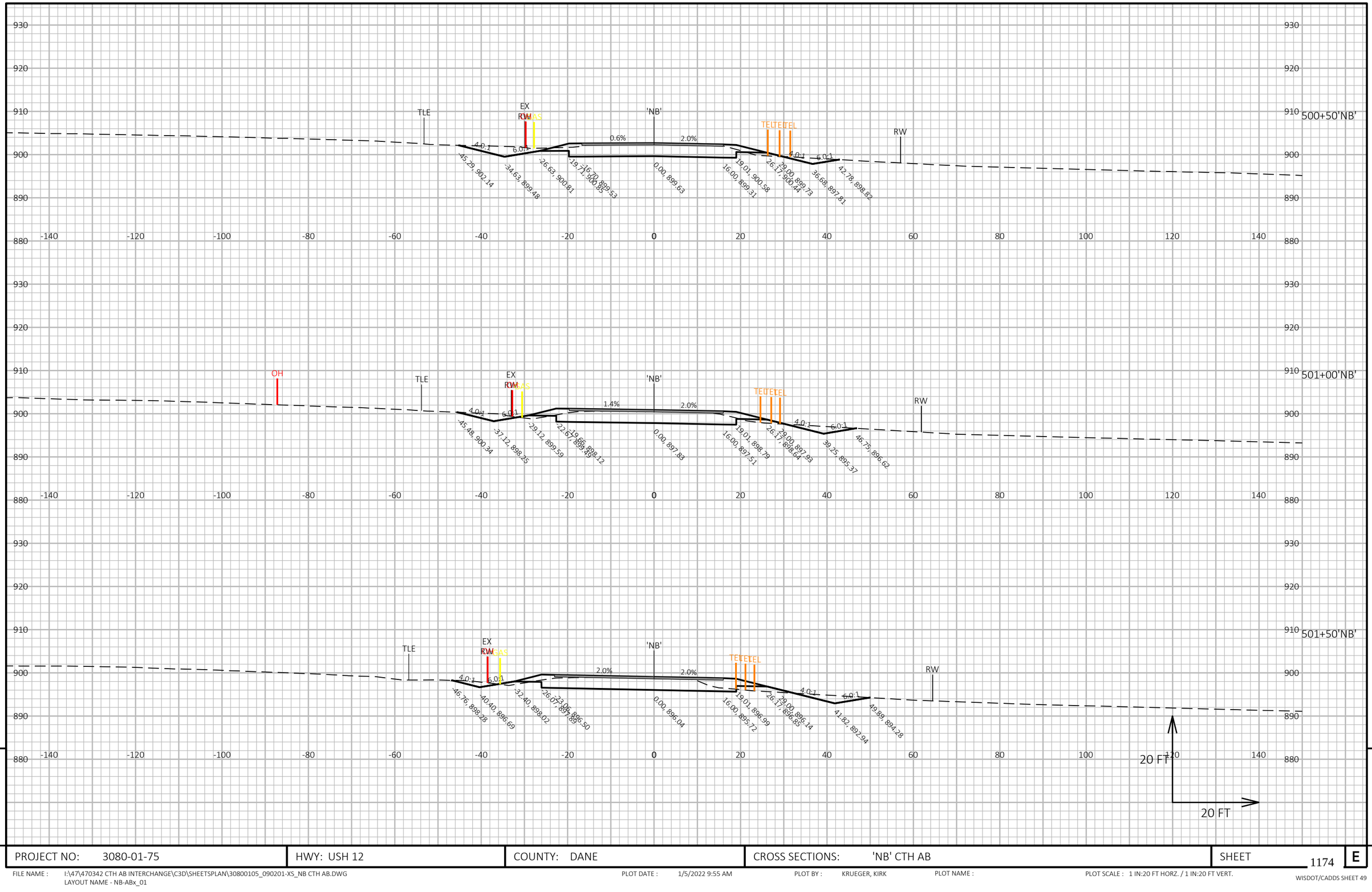
PLOT DATE : 3/17/2022 9:58 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: AUX RAMP 'E'	SHEET 1173 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Ramp E_5
PLOT DATE : 3/17/2022 9:58 AM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1174 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_01

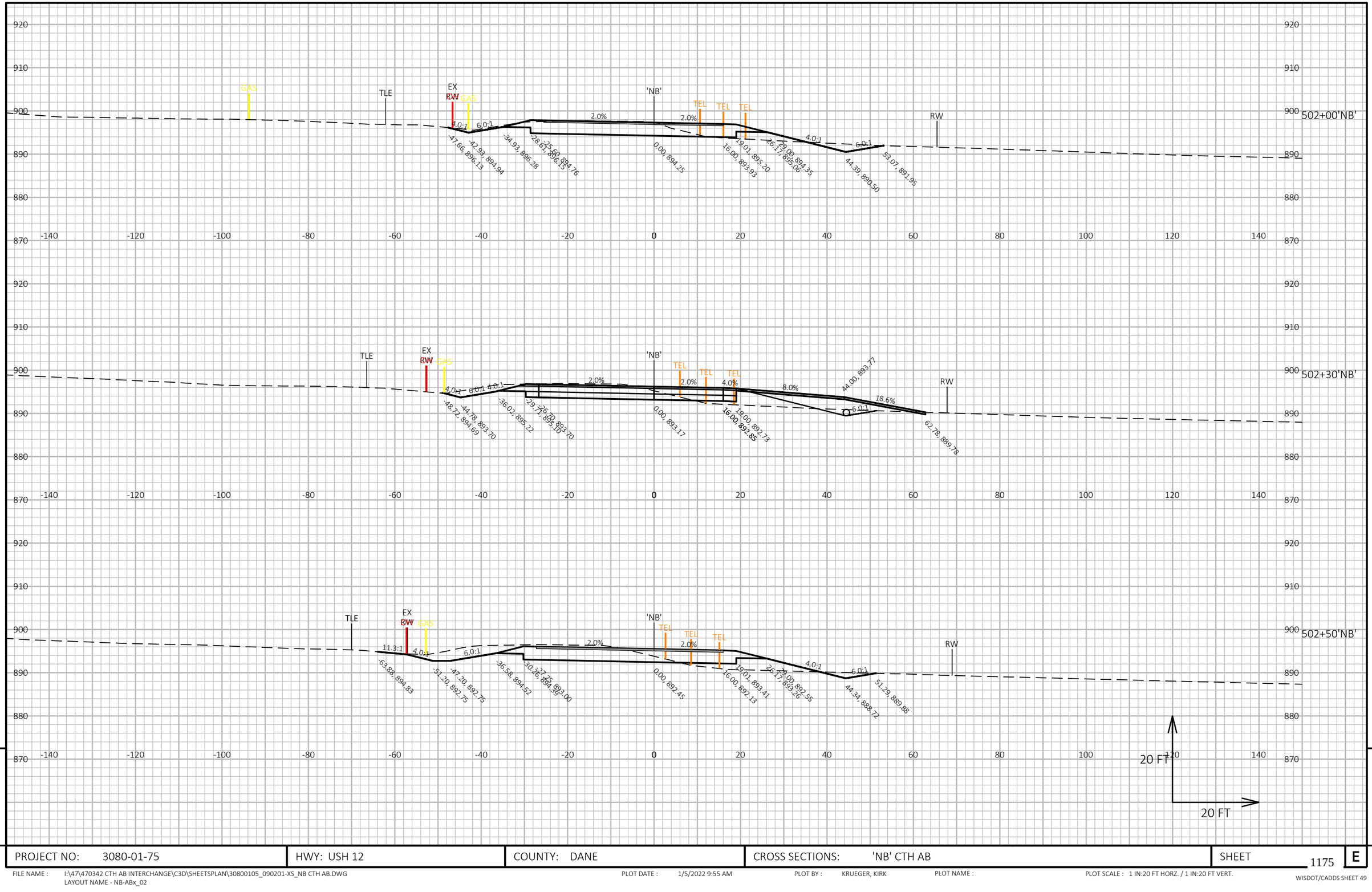
PLOT DATE : 1/5/2022 9:55 AM

PLOT BY : KRUEGER, KIRK

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

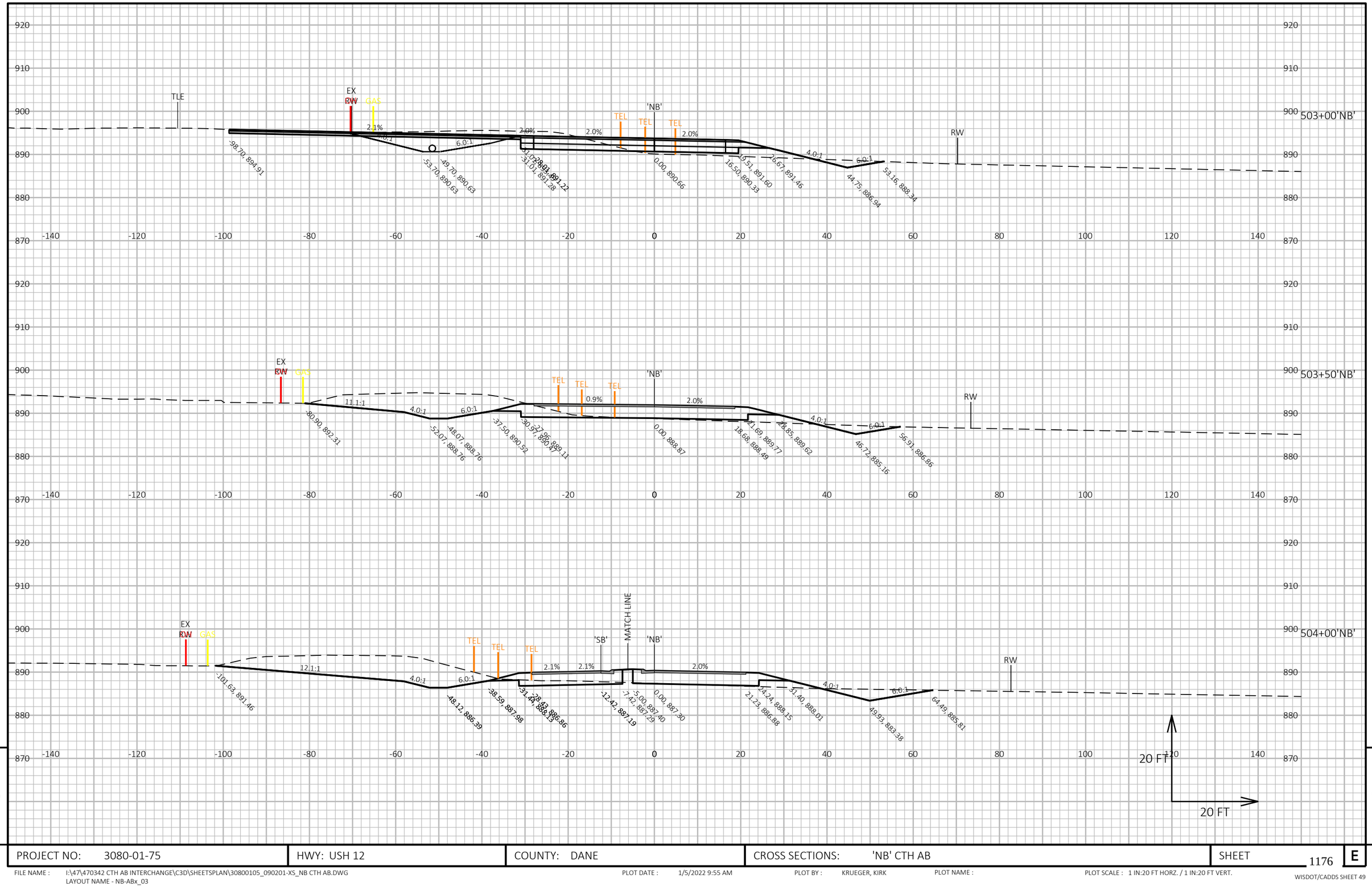


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1175	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_02

PLOT DATE : 1/5/2022 9:55 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

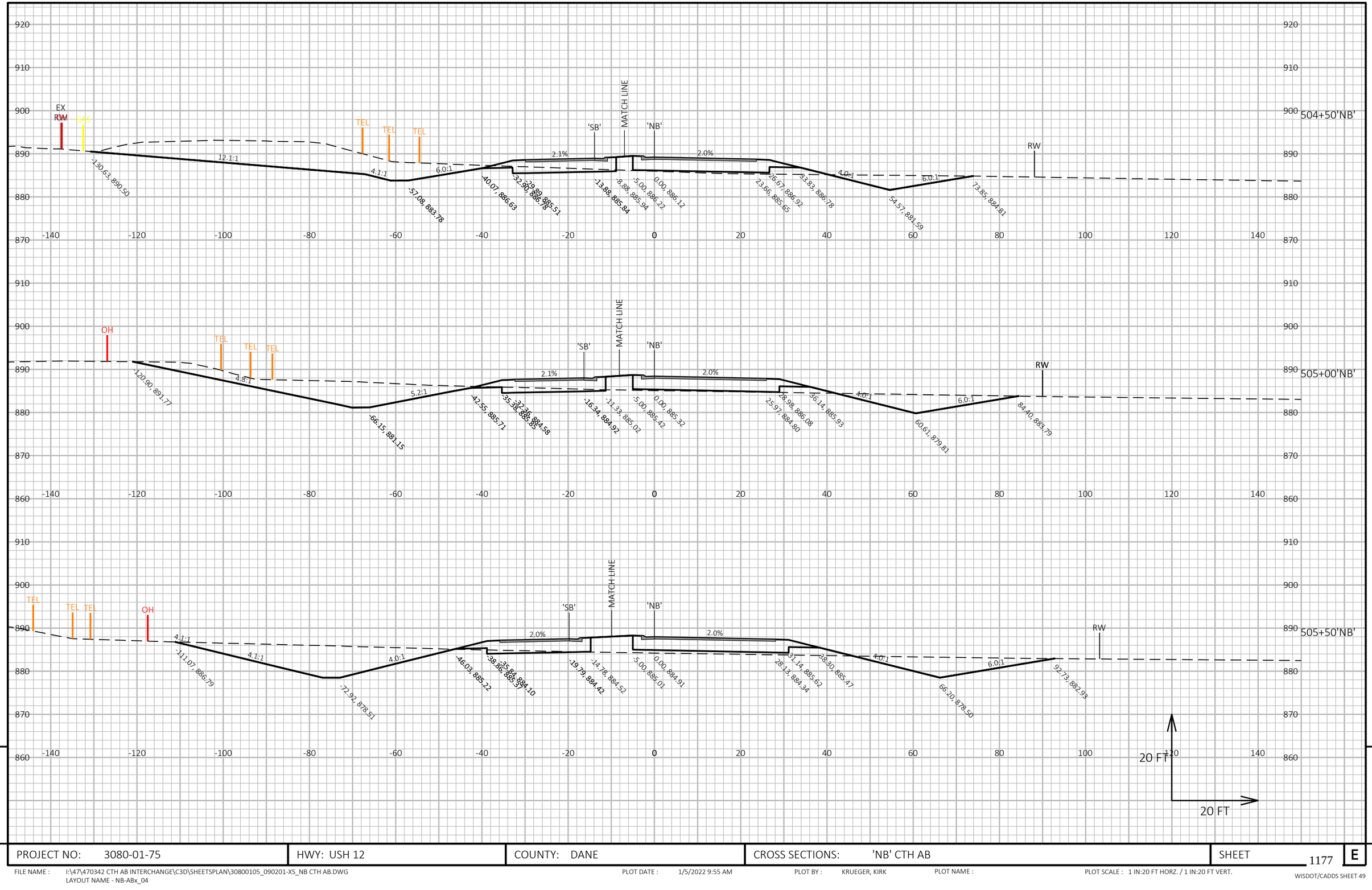


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1176 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_03

PLOT DATE : 1/5/2022 9:55 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

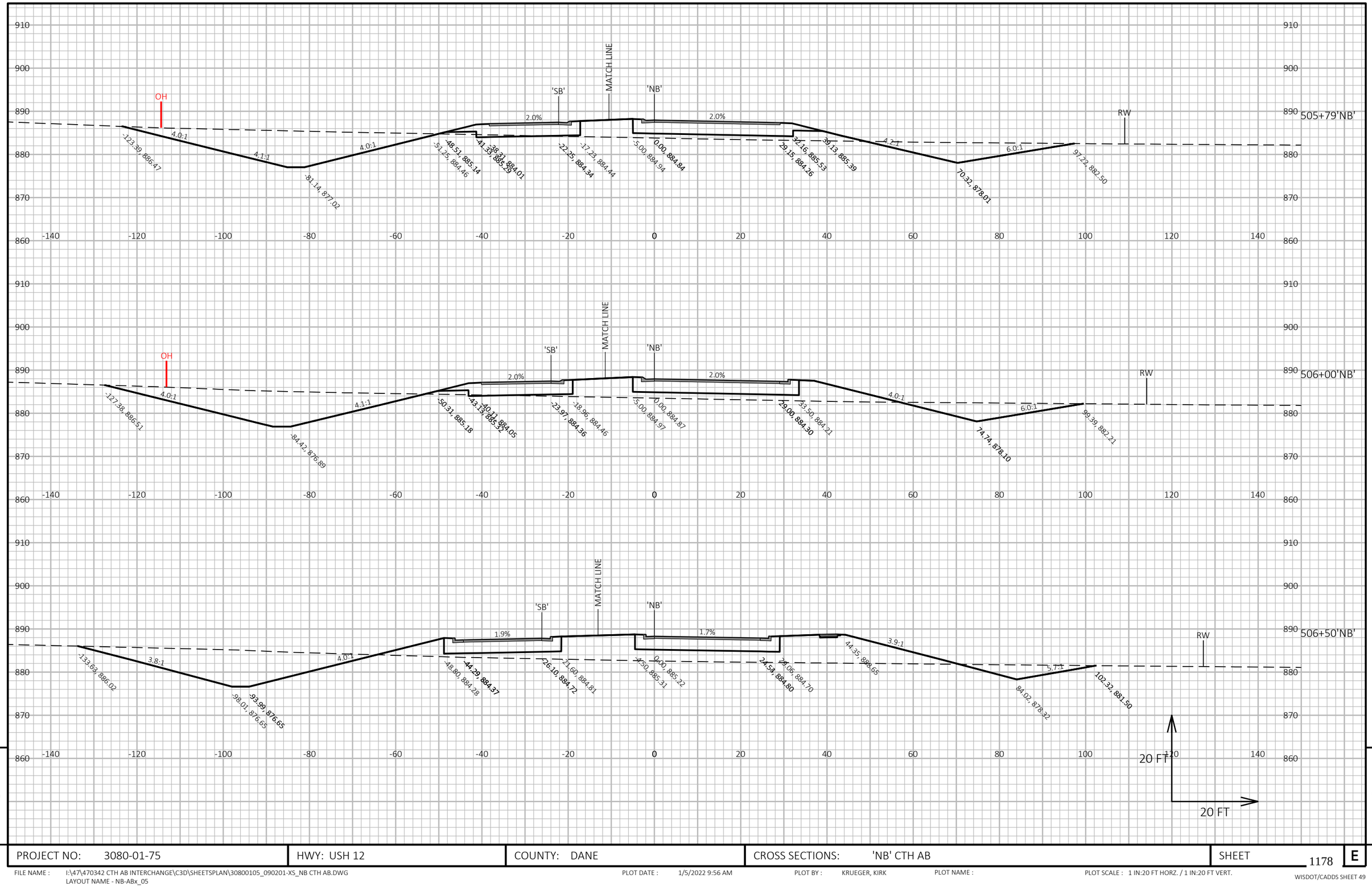


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1177	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_04

PLOT DATE : 1/5/2022 9:55 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

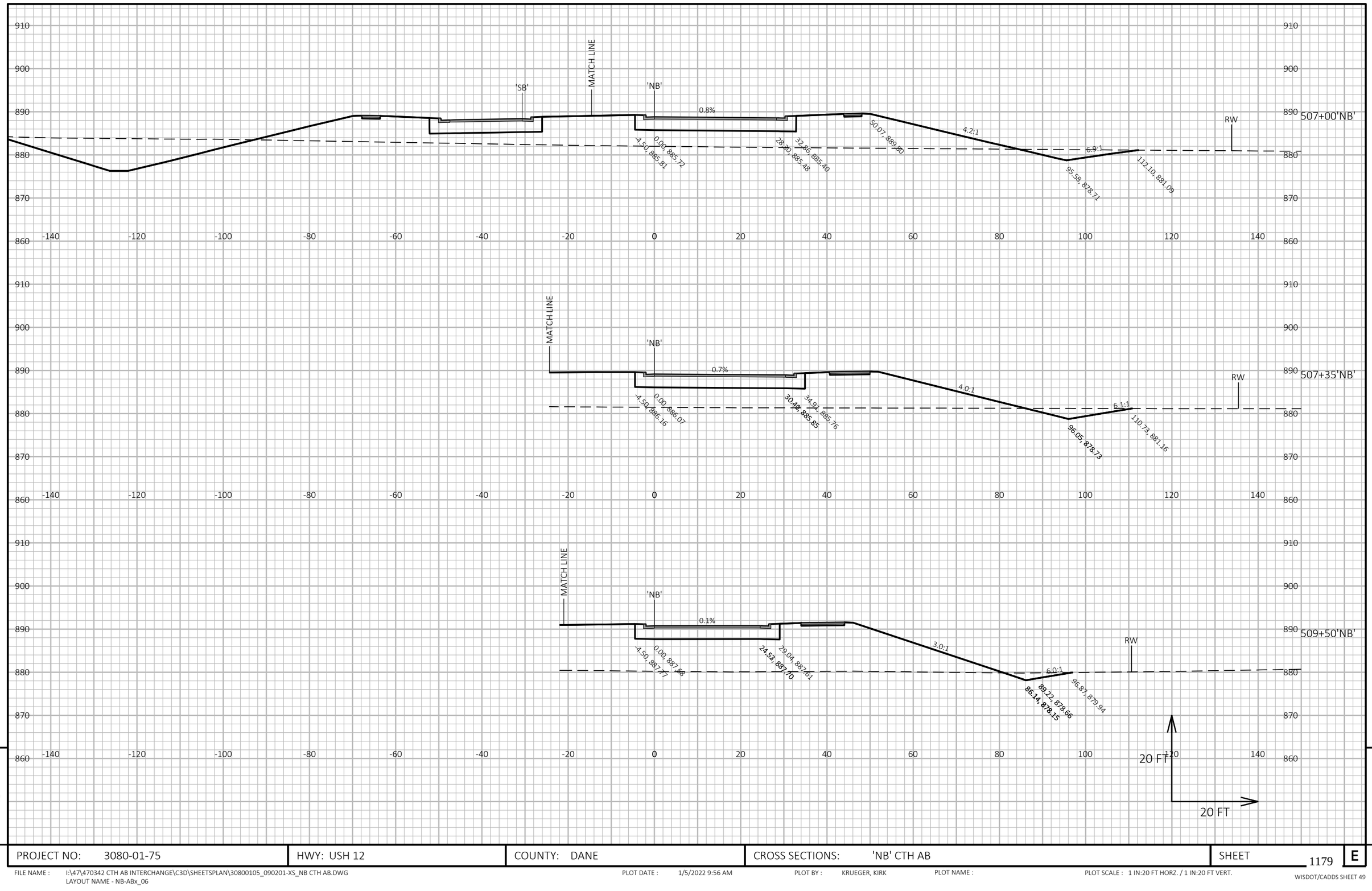


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1178 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_05

PLOT DATE : 1/5/2022 9:56 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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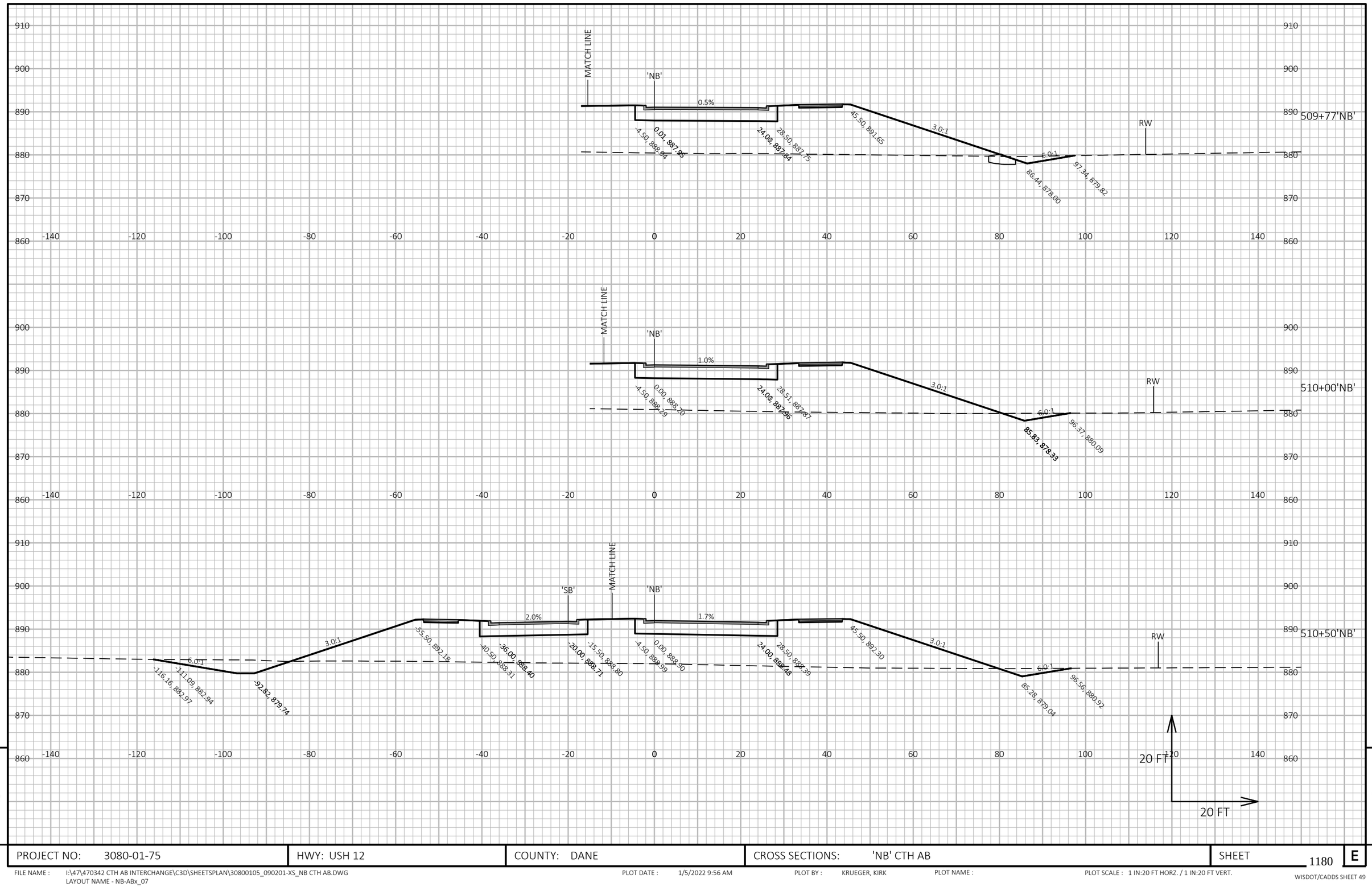
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1179	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_06

PLOT DATE : 1/5/2022 9:56 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

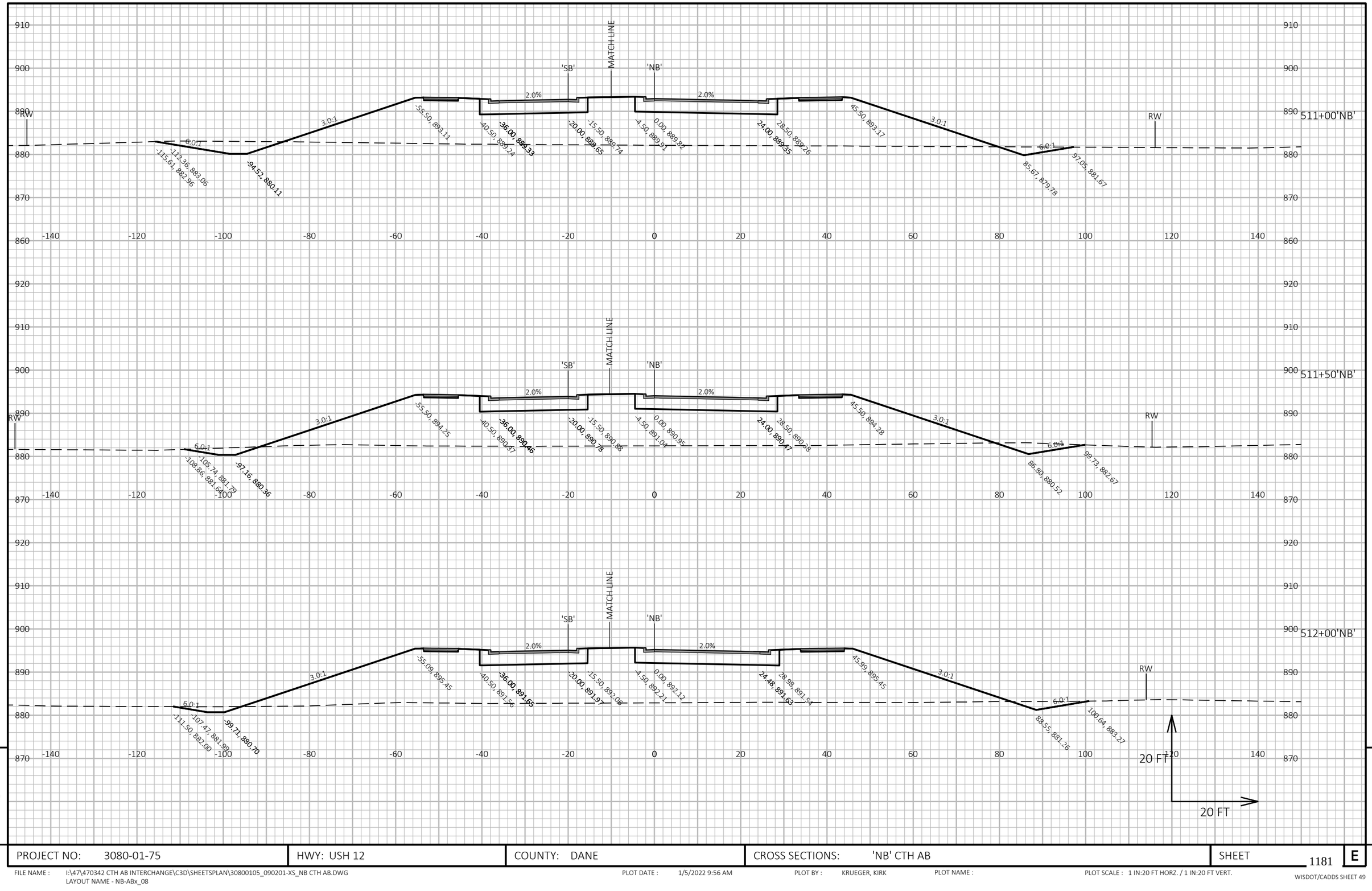


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1180	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_07

PLOT DATE : 1/5/2022 9:56 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

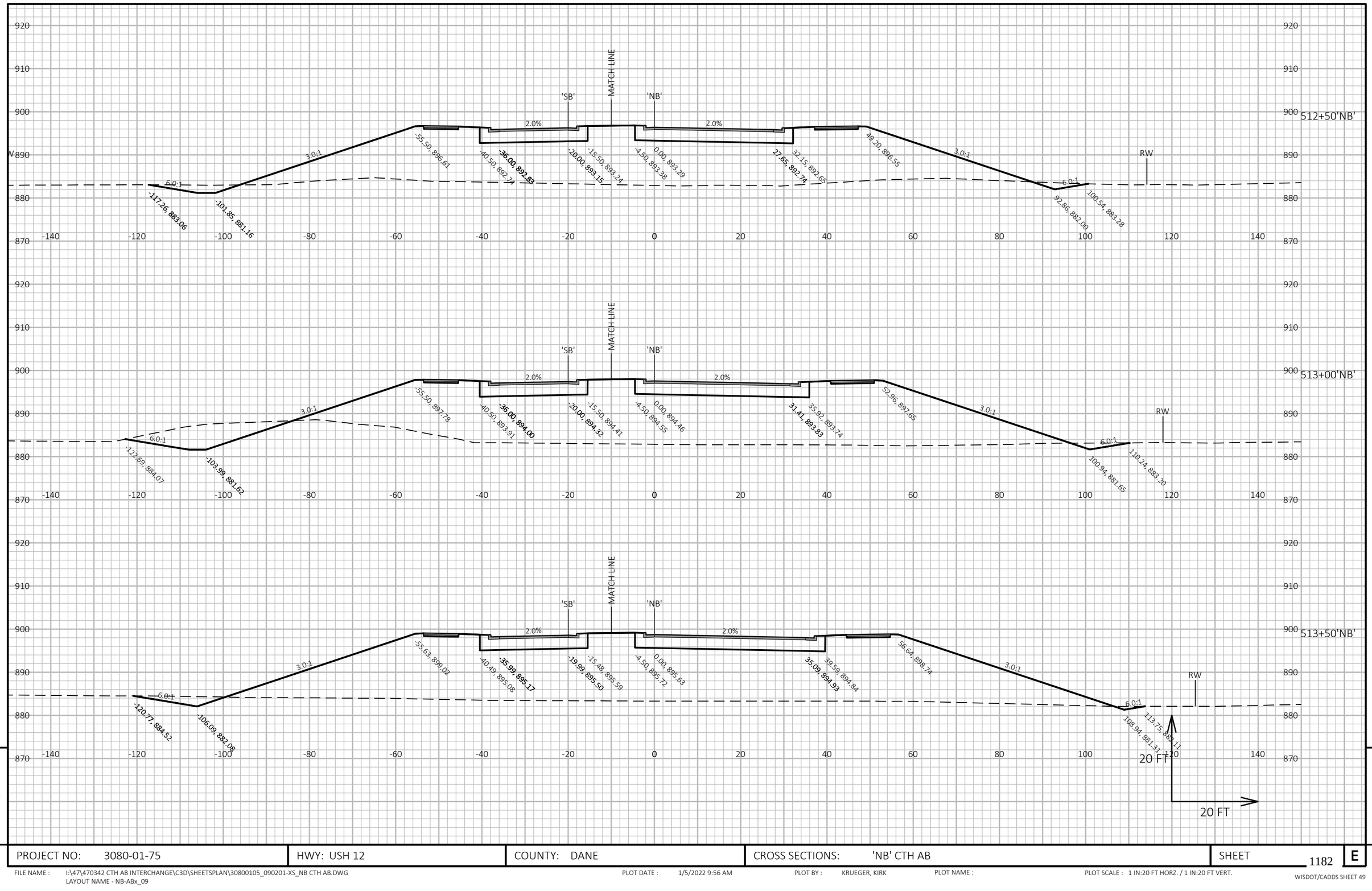


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1181 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_08

PLOT DATE : 1/5/2022 9:56 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

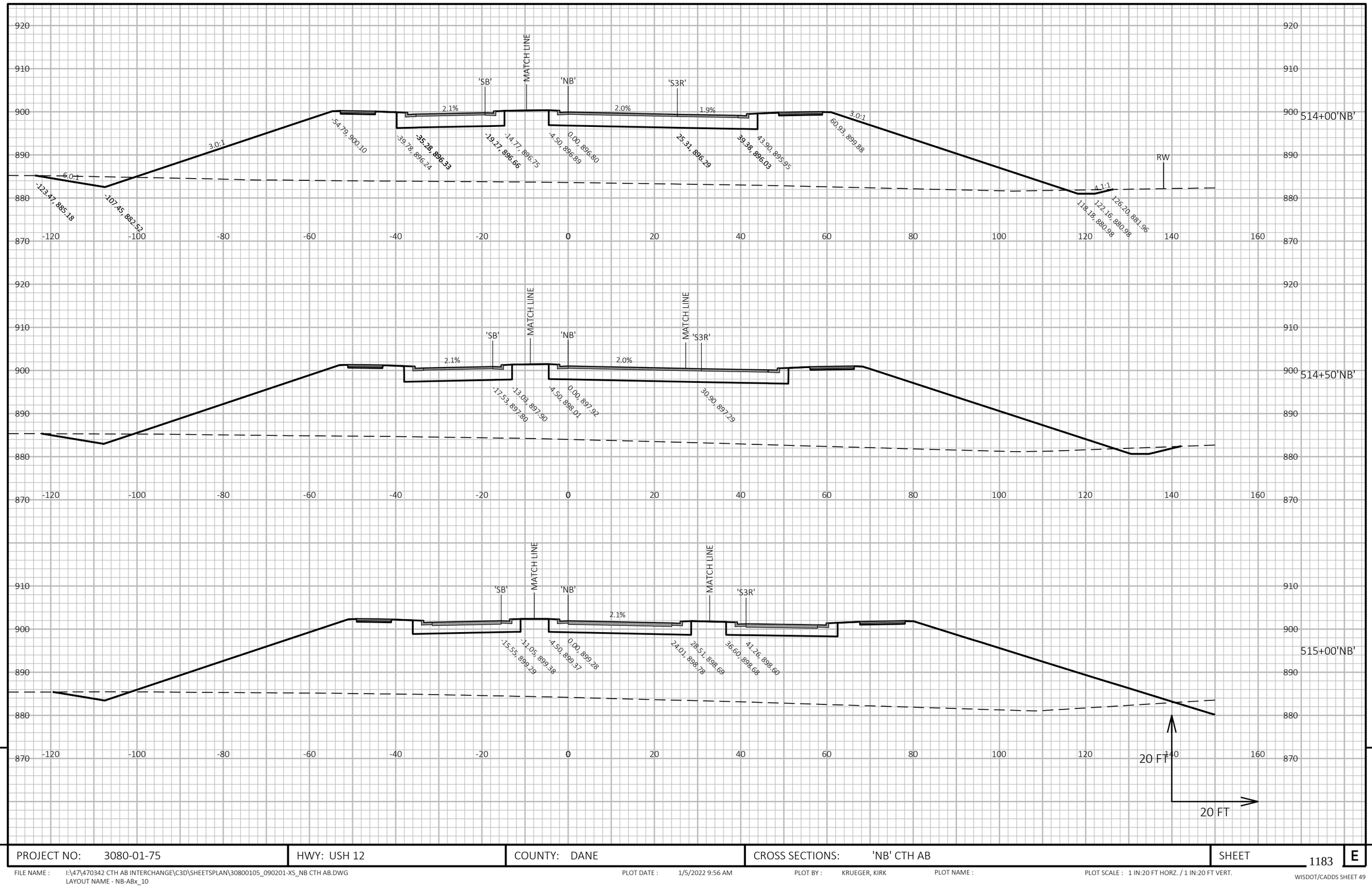


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1182	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_09

PLOT DATE : 1/5/2022 9:56 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

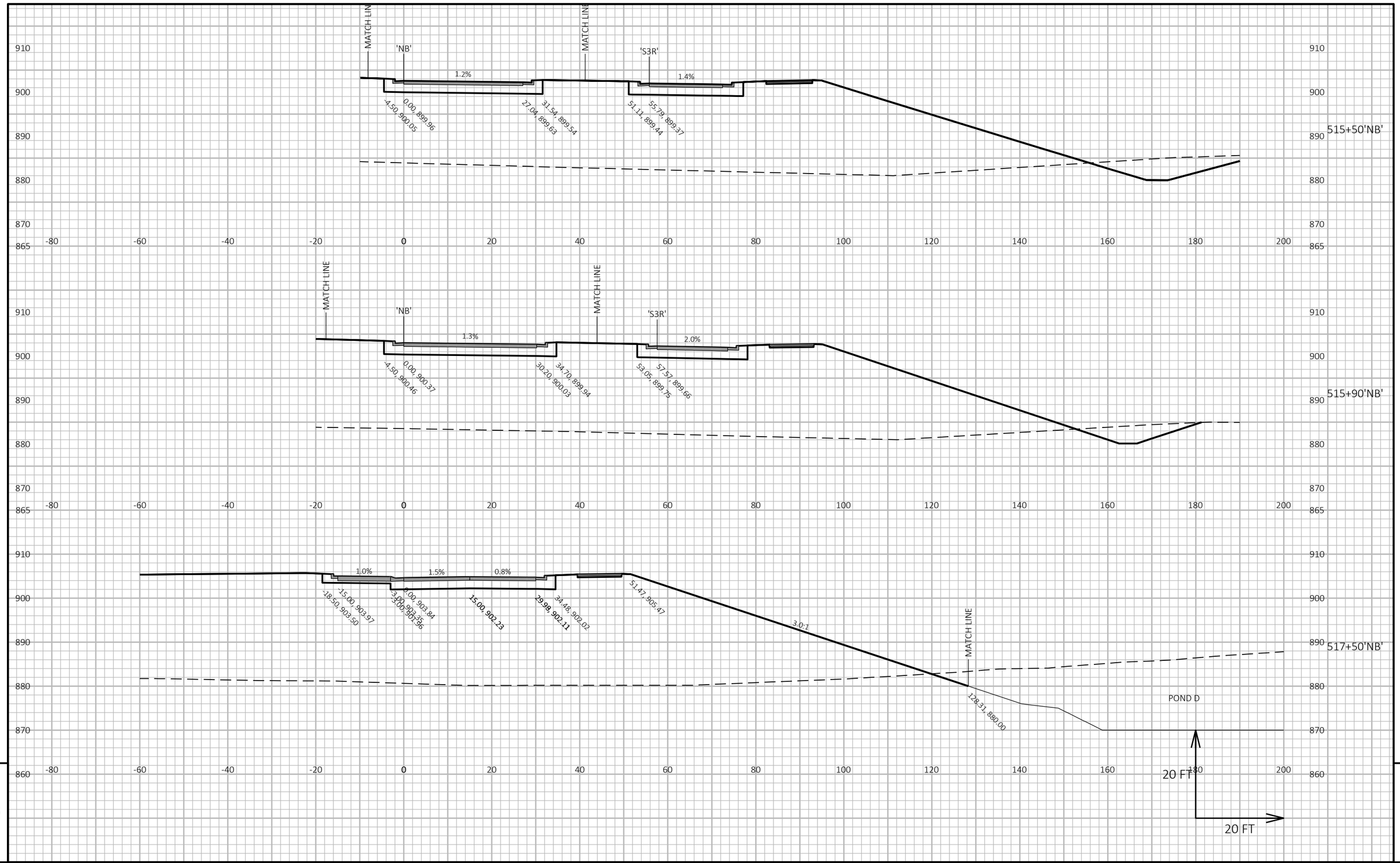


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1183	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_10

PLOT DATE : 1/5/2022 9:56 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

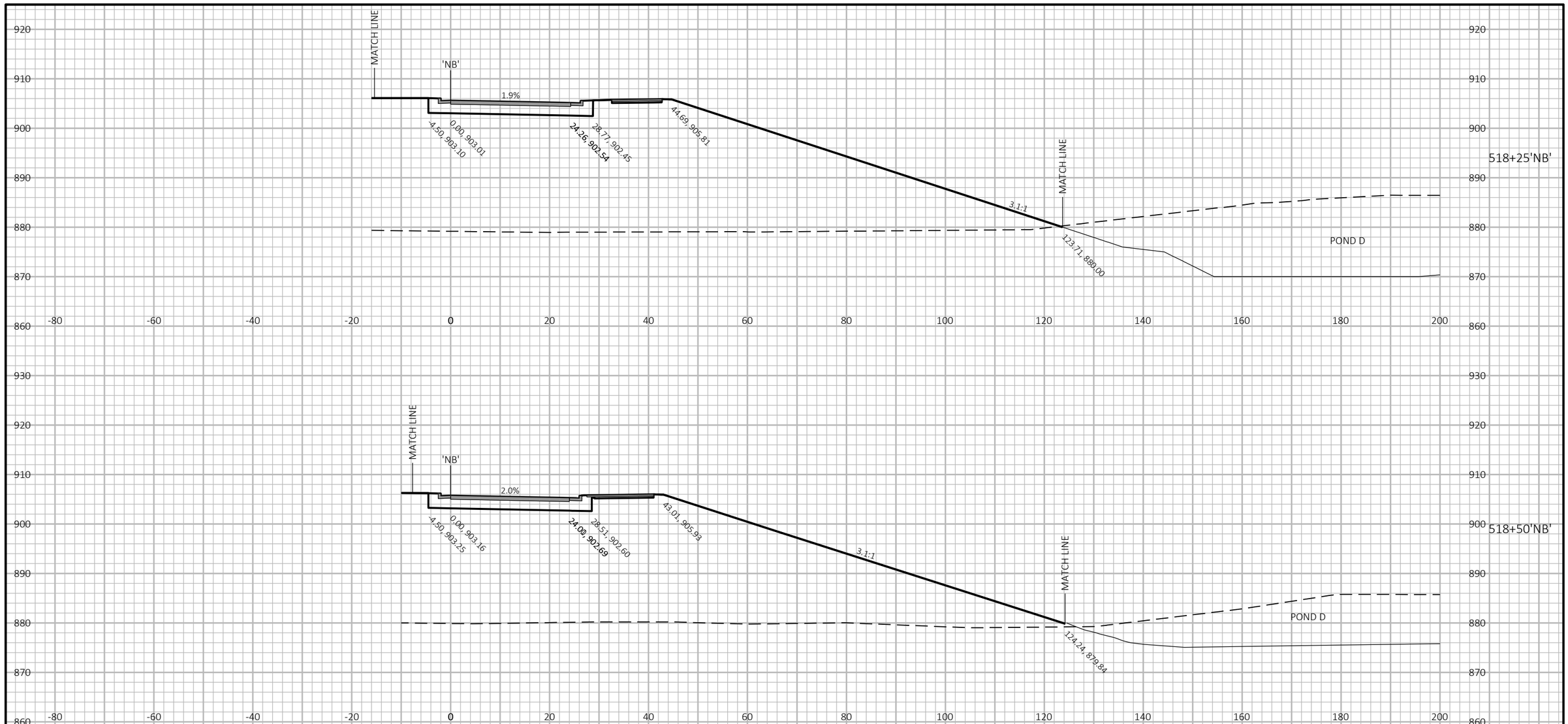


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1184 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_11

PLOT DATE : 1/5/2022 9:56 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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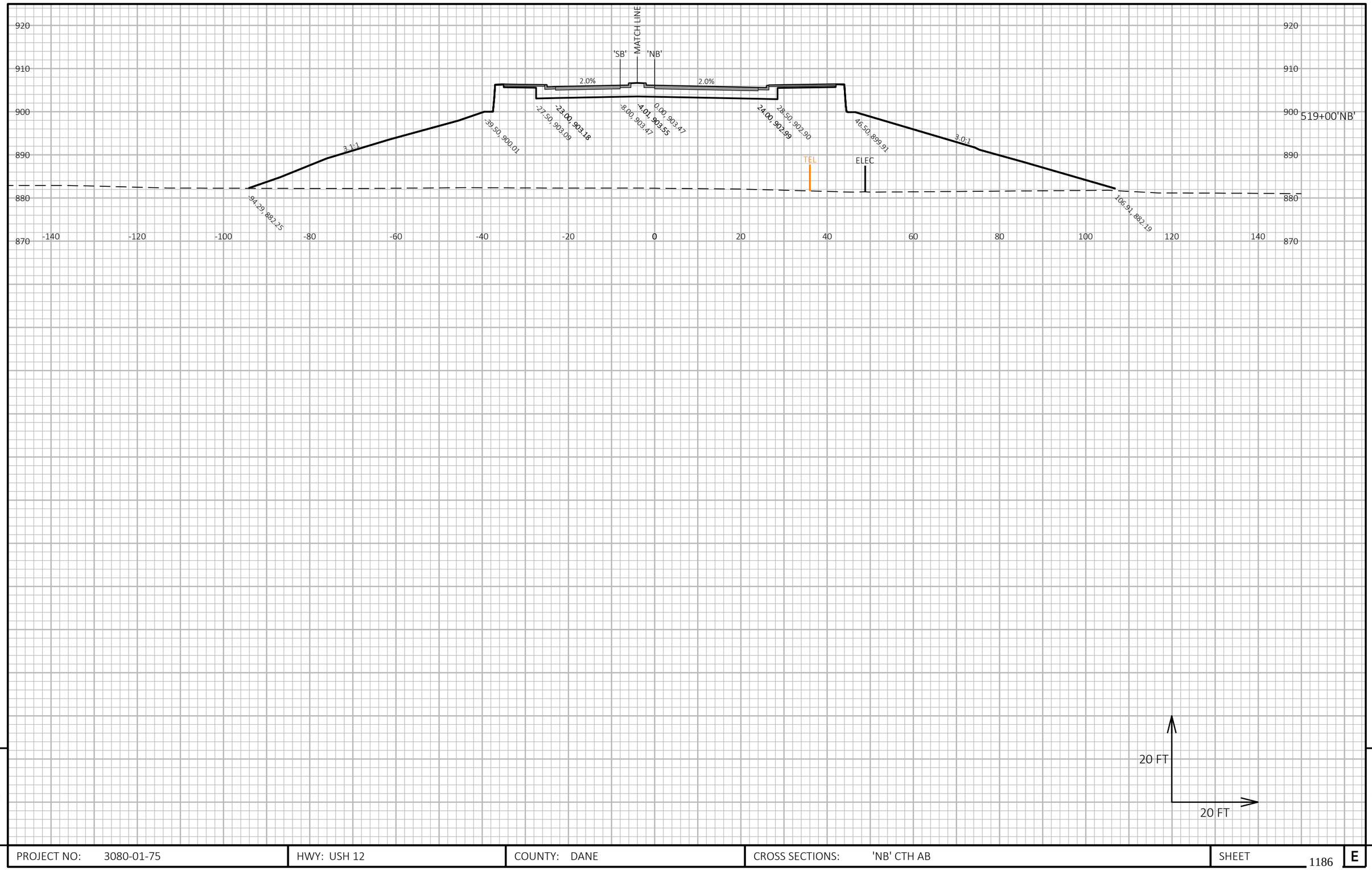
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1185	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_12

PLOT DATE : 1/5/2022 9:56 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1186	E

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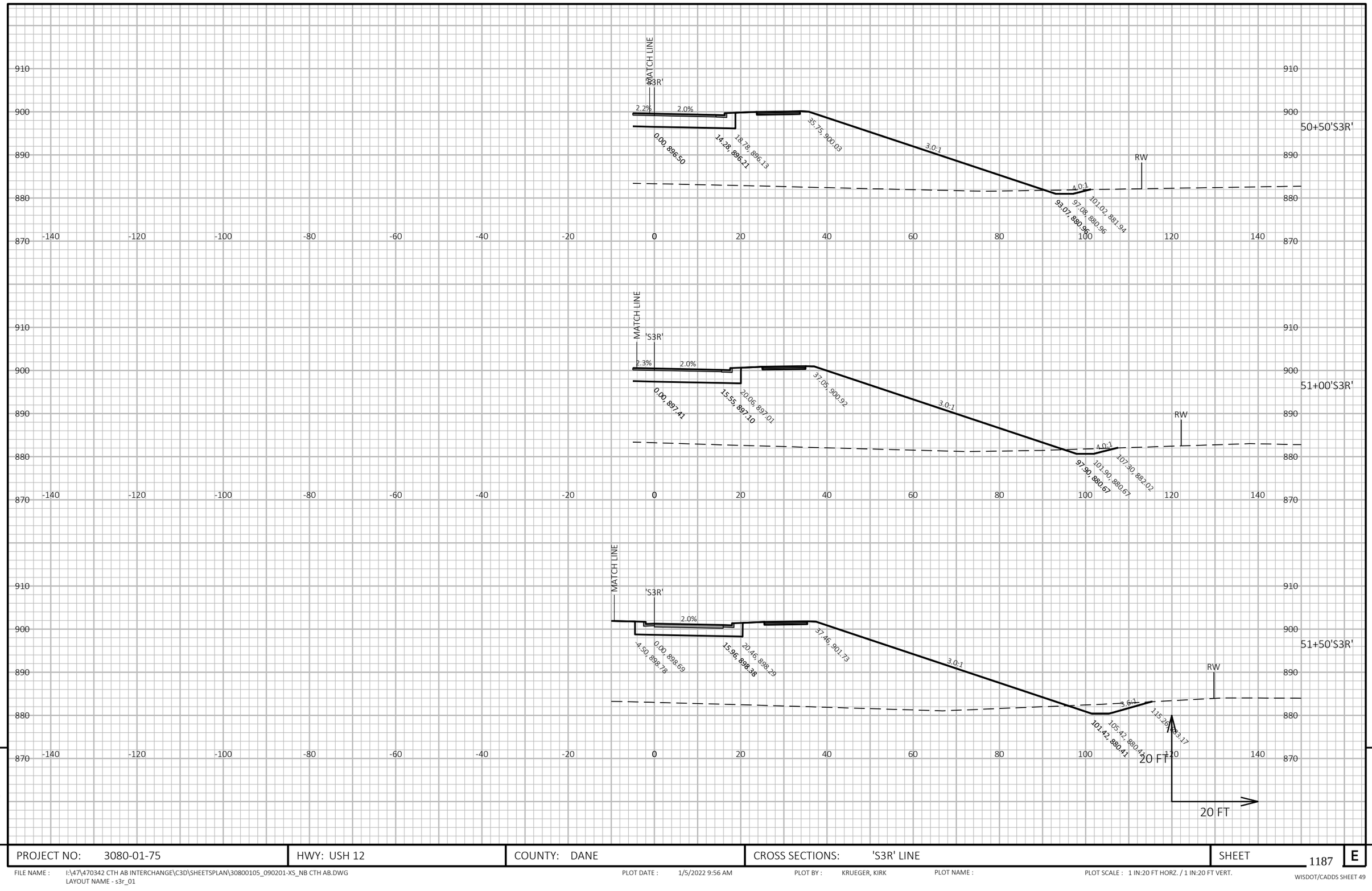
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - NB-ABx_13

PLOT DATE : 1/5/2022 9:56 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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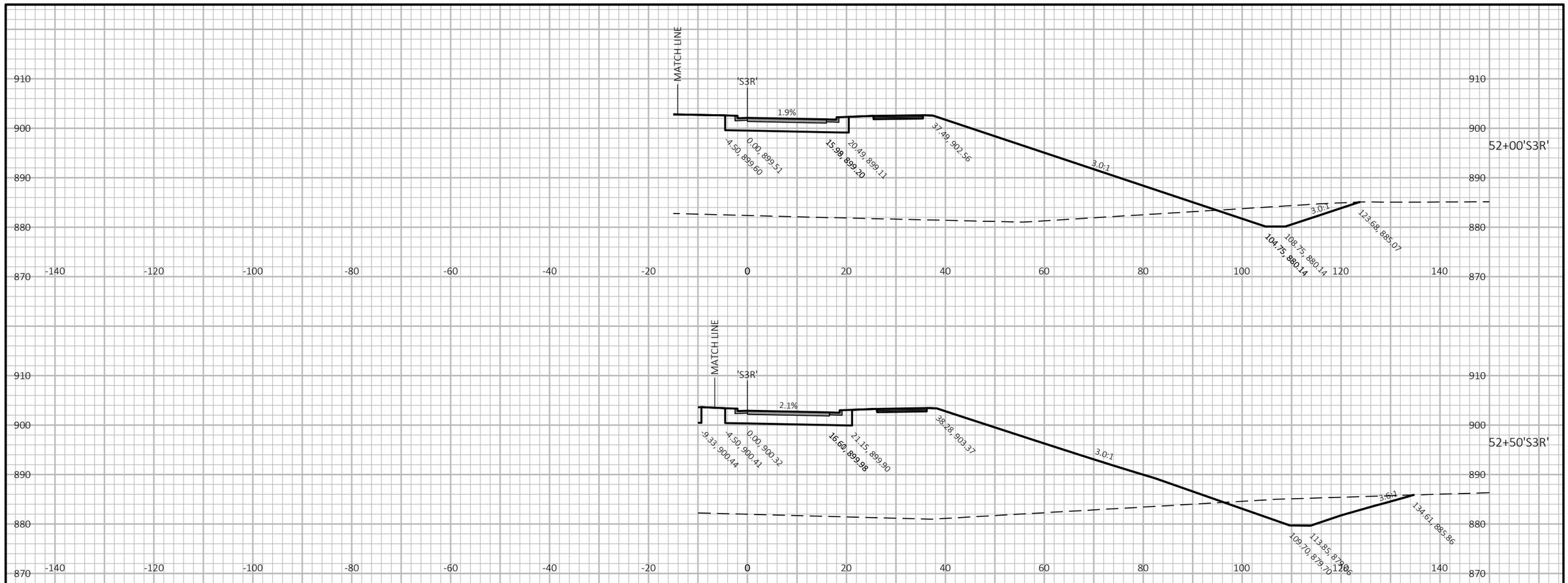
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'S3R' LINE	SHEET 1187	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090201-XS_NB CTH AB.DWG
LAYOUT NAME - s3r_01

PLOT DATE : 1/5/2022 9:56 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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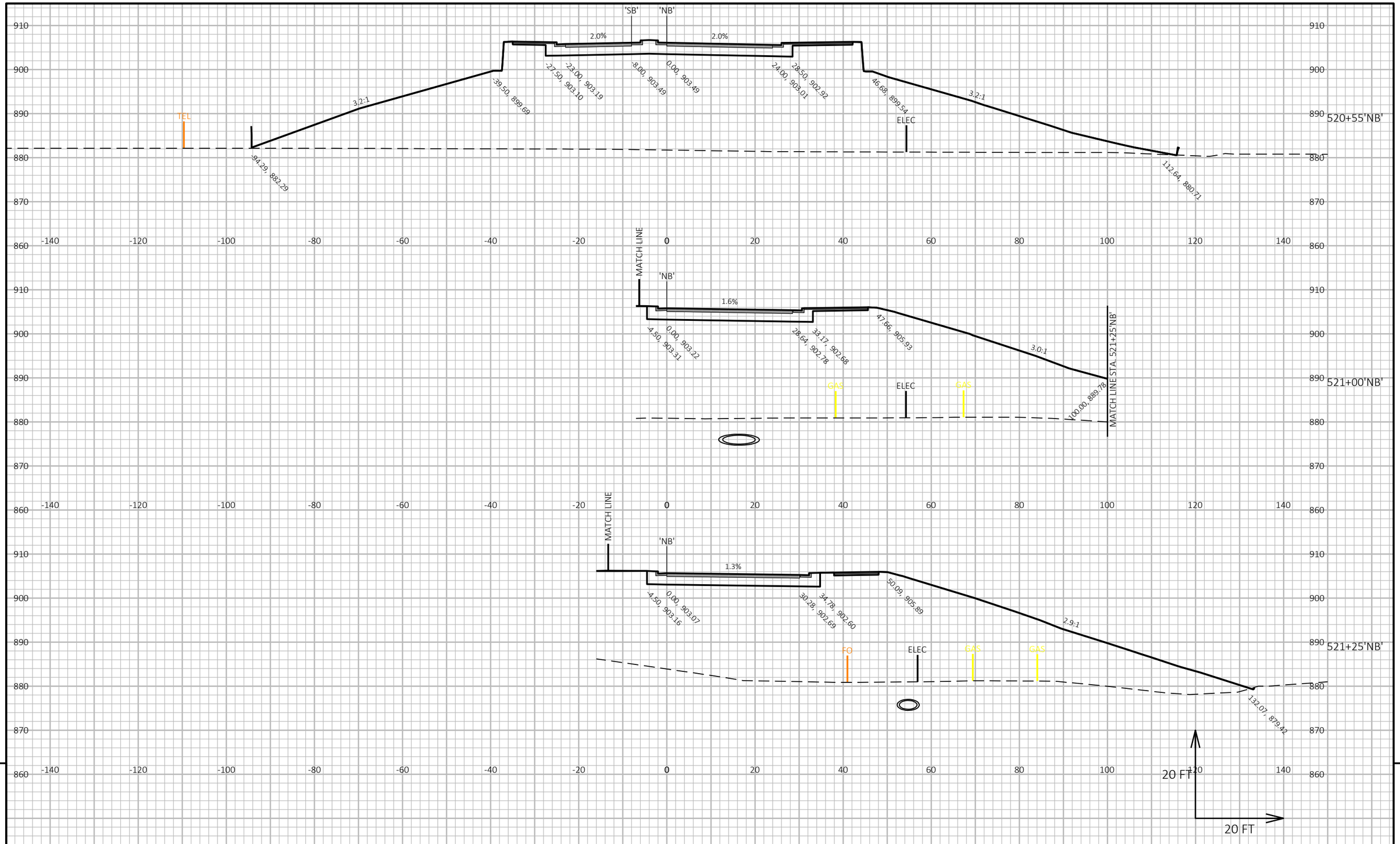
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'S3R' LINE	SHEET 1188	E



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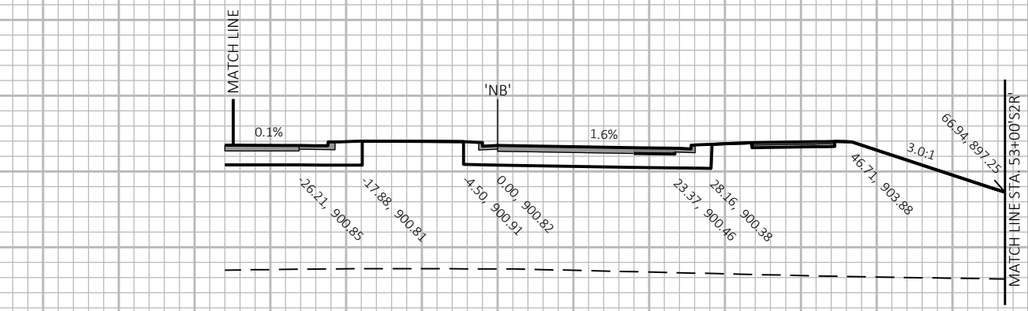
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1189	E

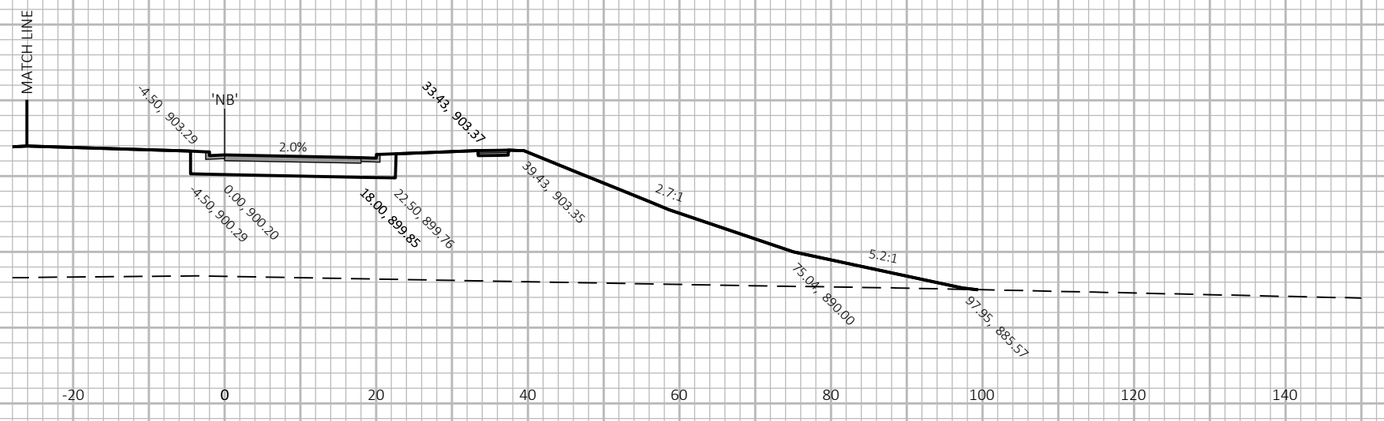
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_01

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

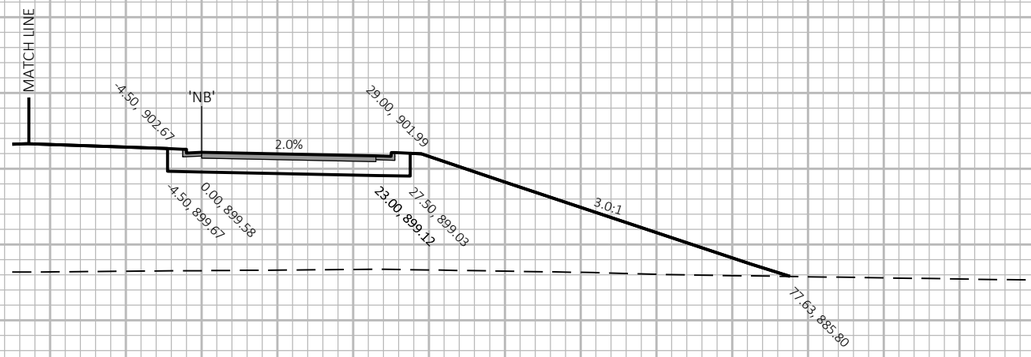
WISDOT/CADDS SHEET 49



523+50'NB'



524+00'NB'



524+50'NB'

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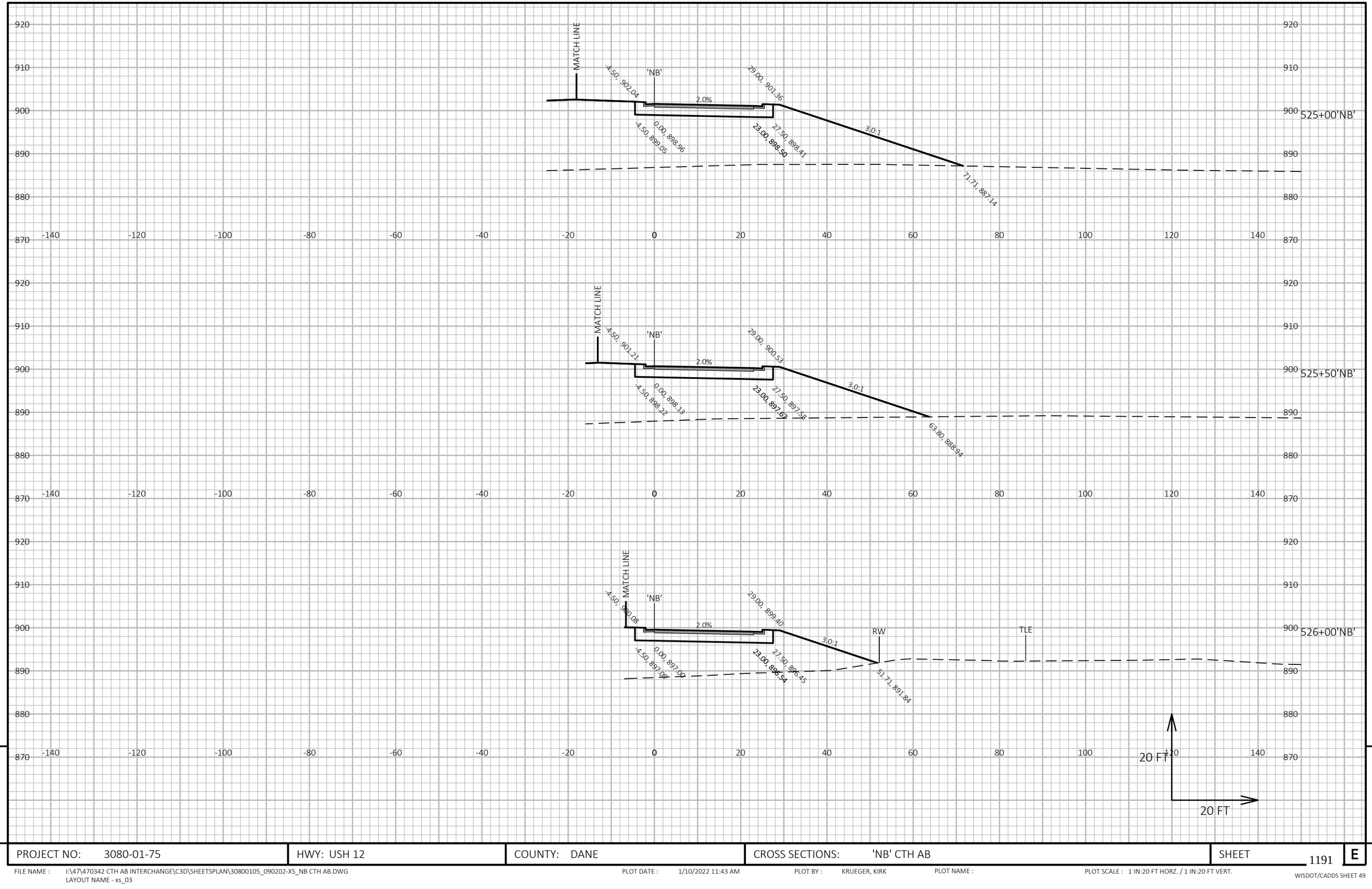
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1190 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_02

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

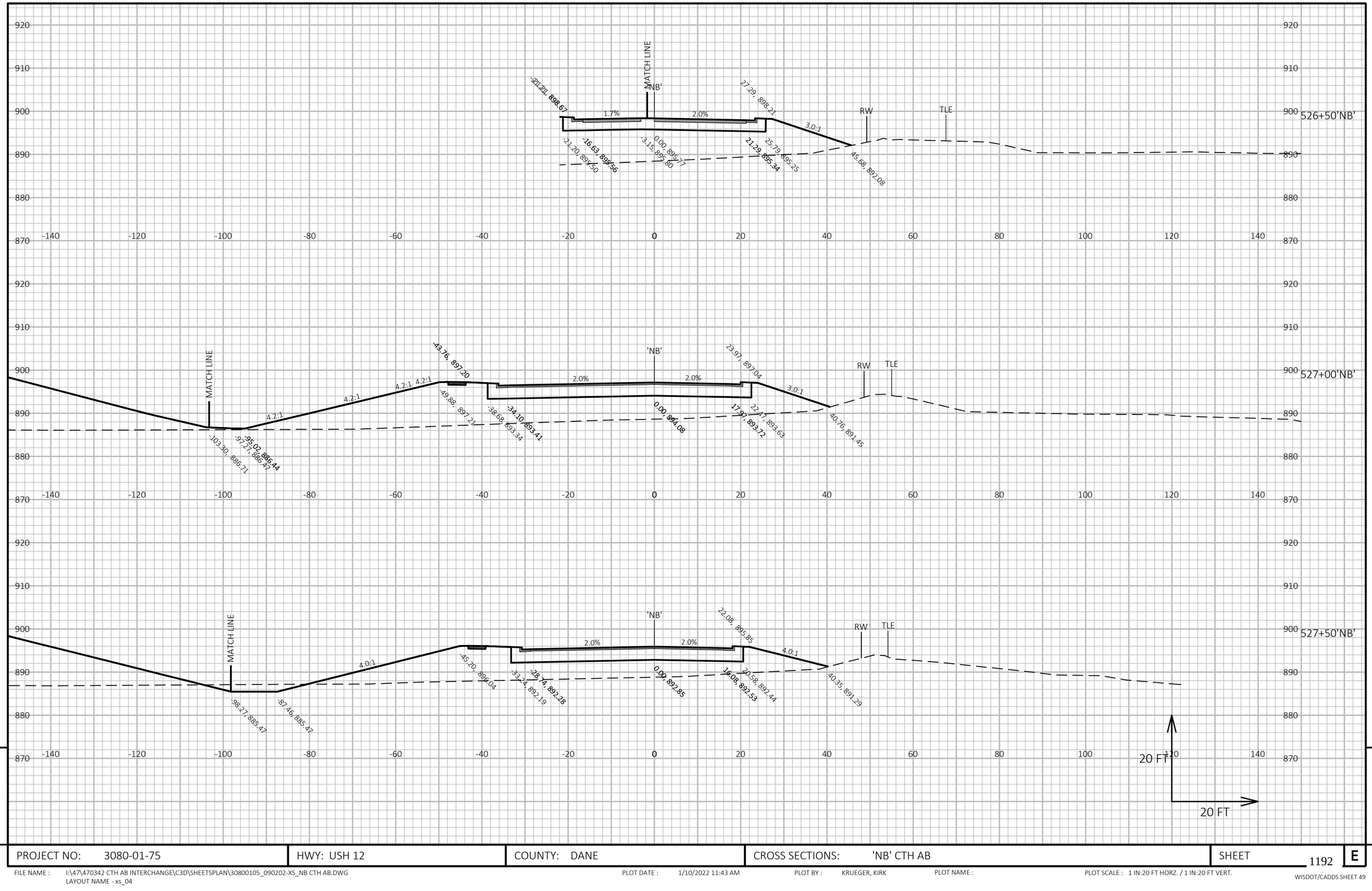


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1191 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_03

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

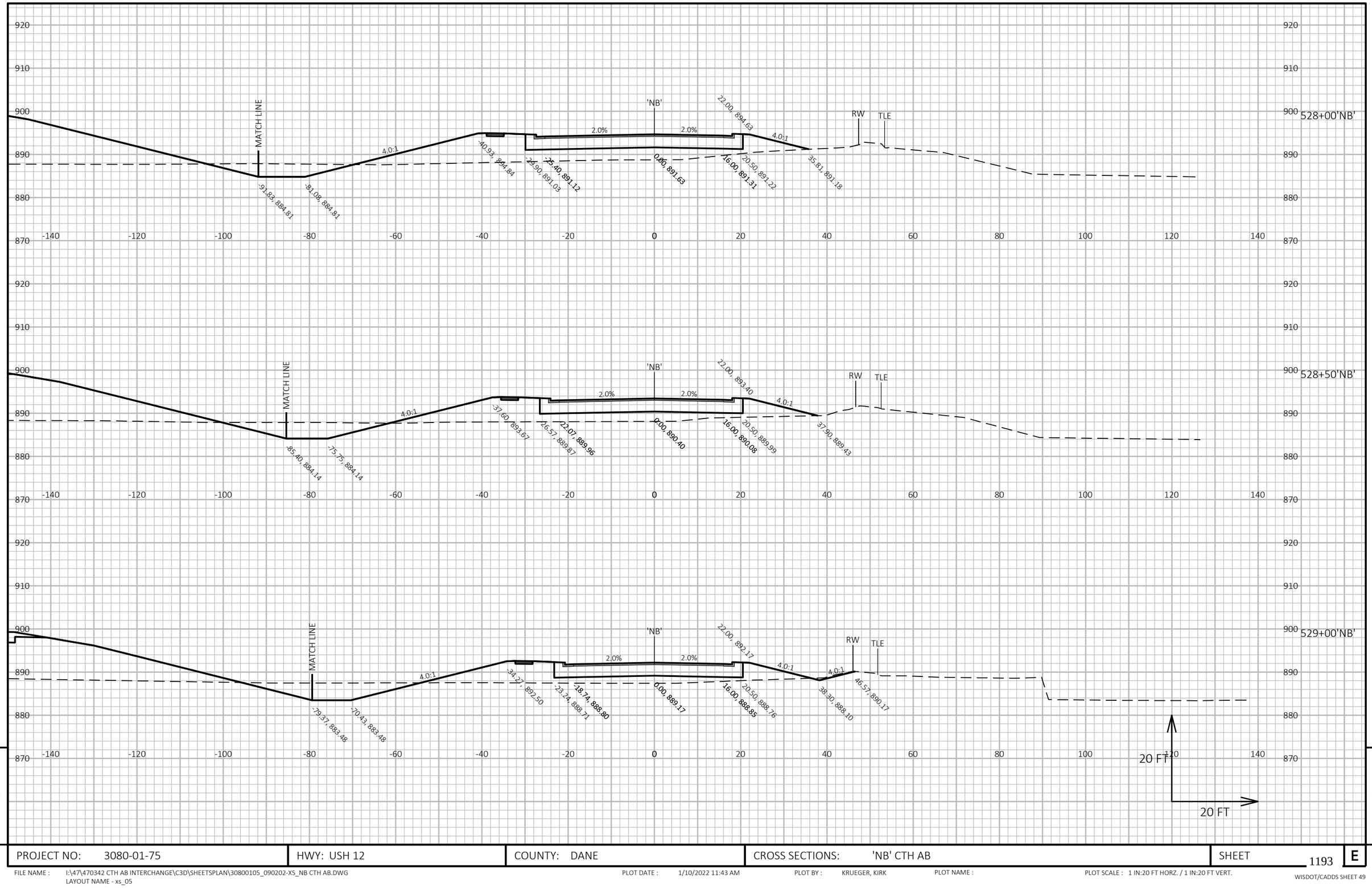


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1192 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_04

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

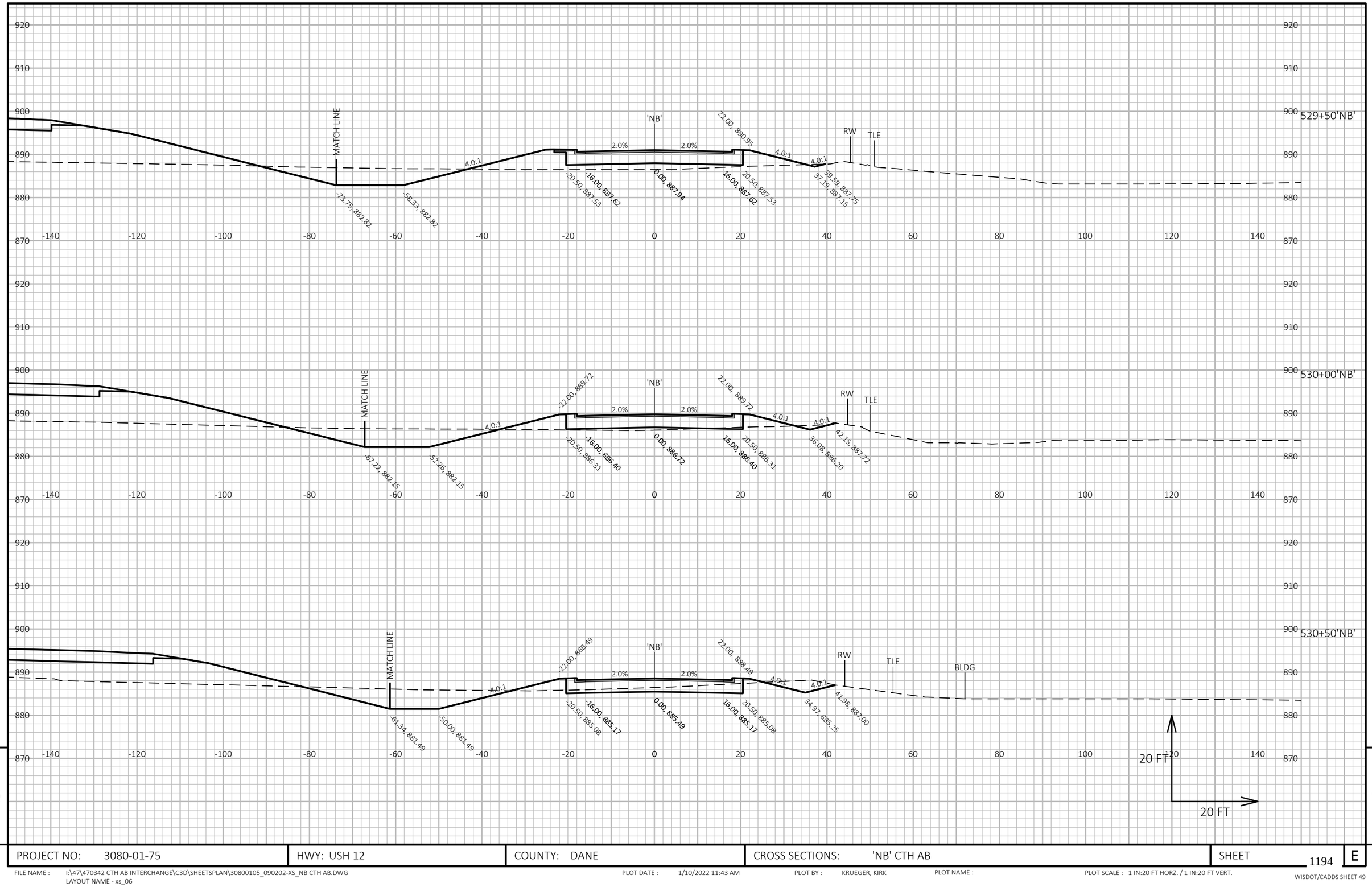


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1193 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_05

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

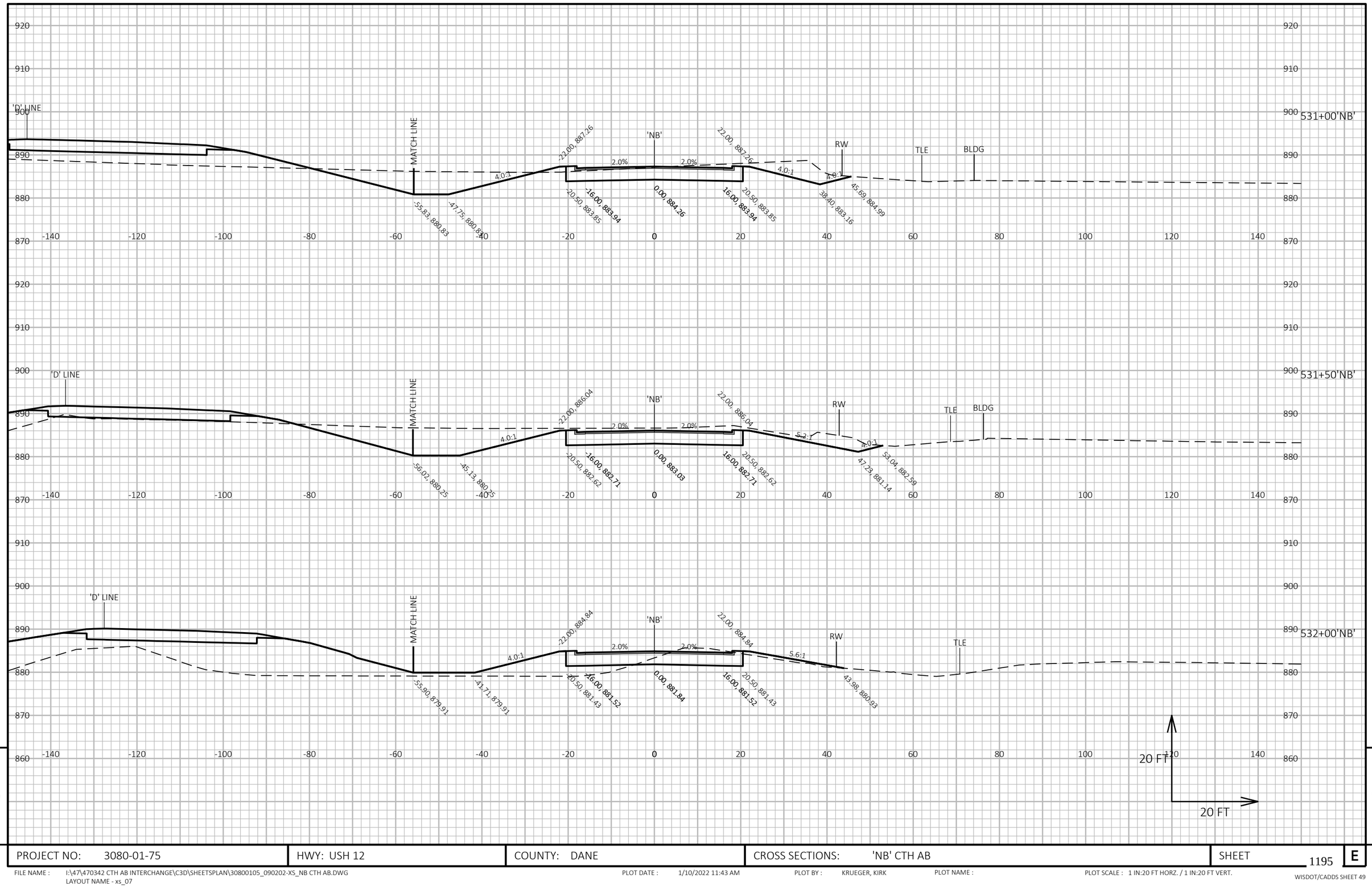


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1194 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_06

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1195	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_07

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1196	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_08

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

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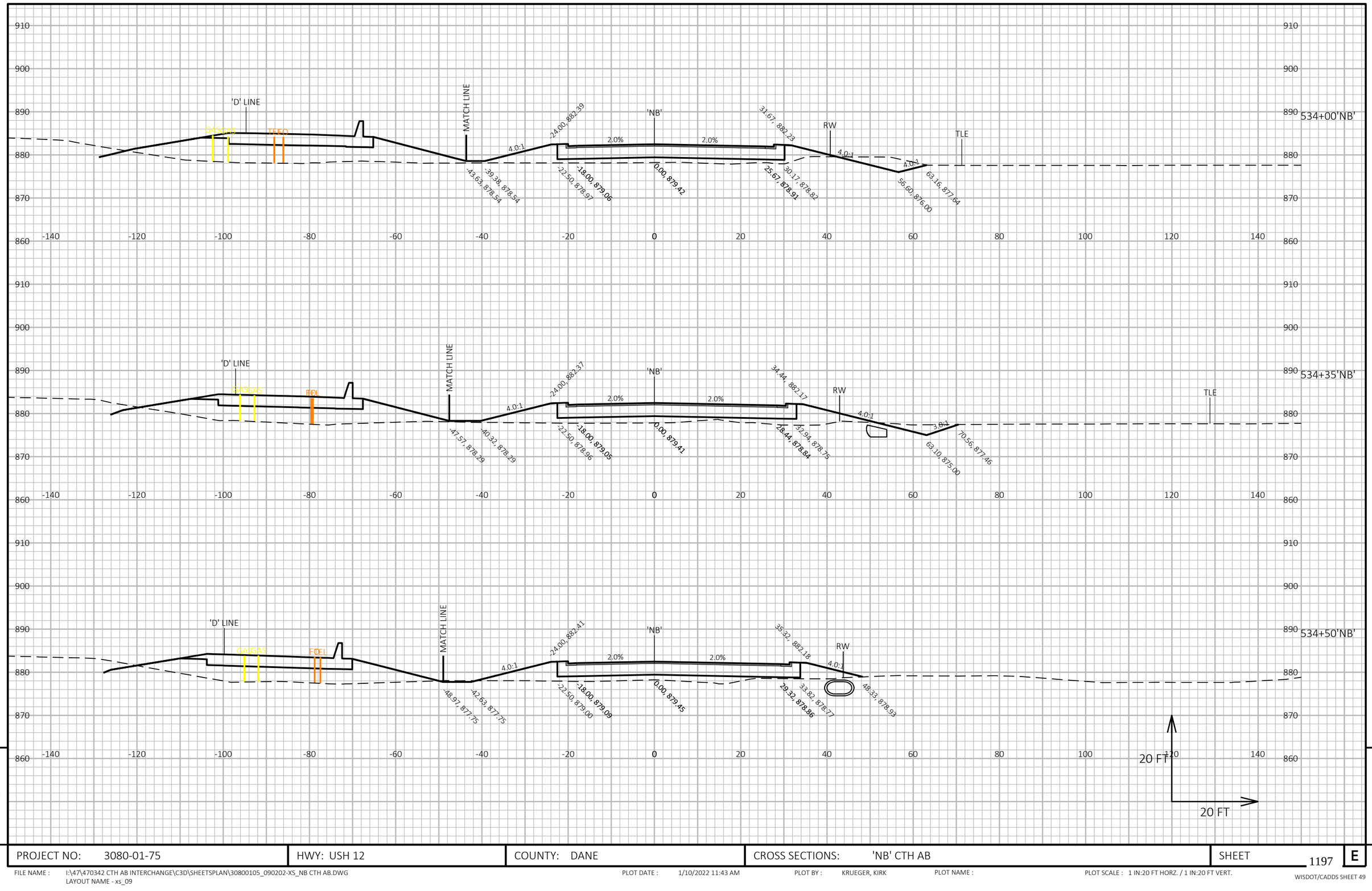

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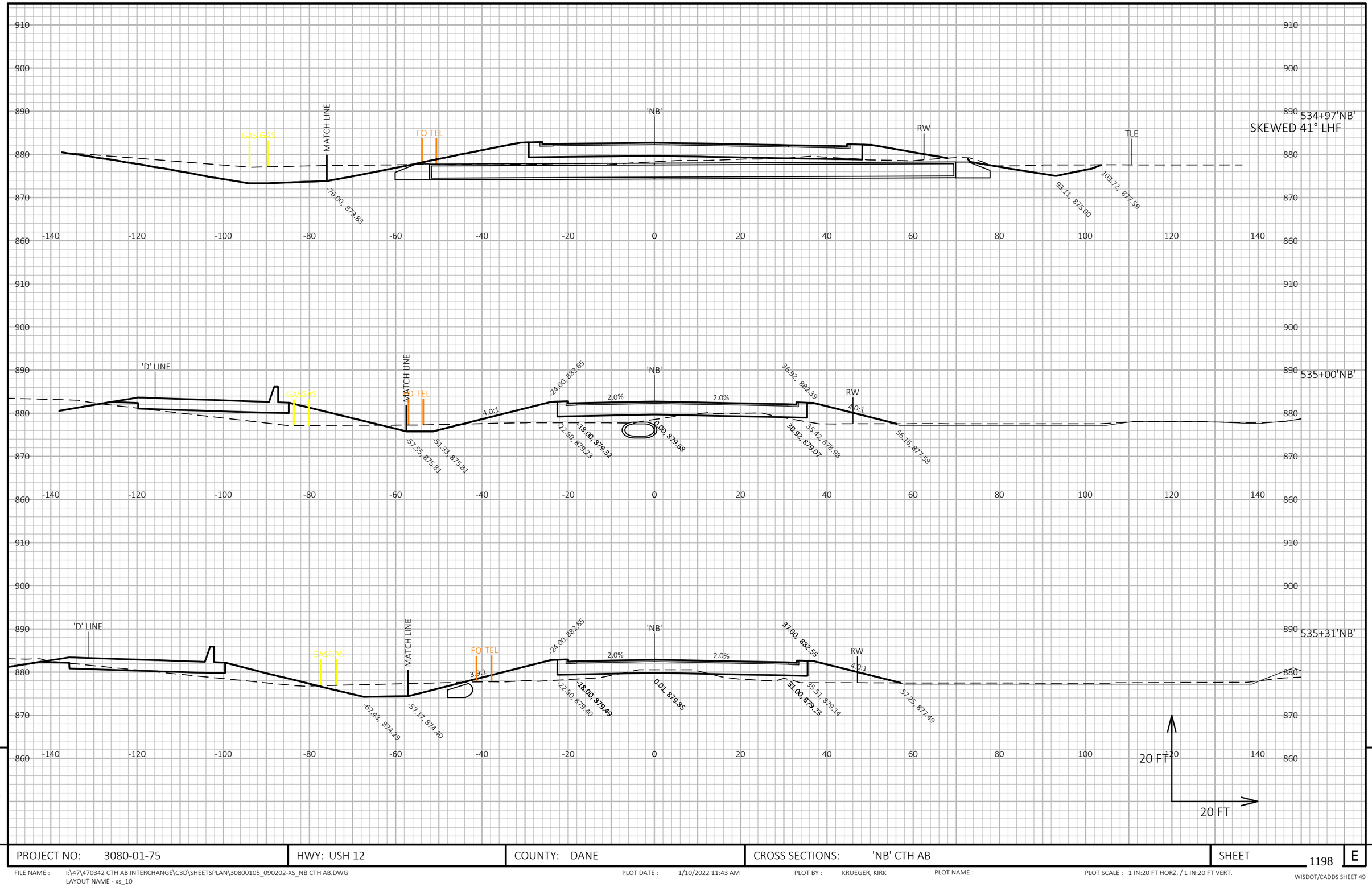
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1197	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_09

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

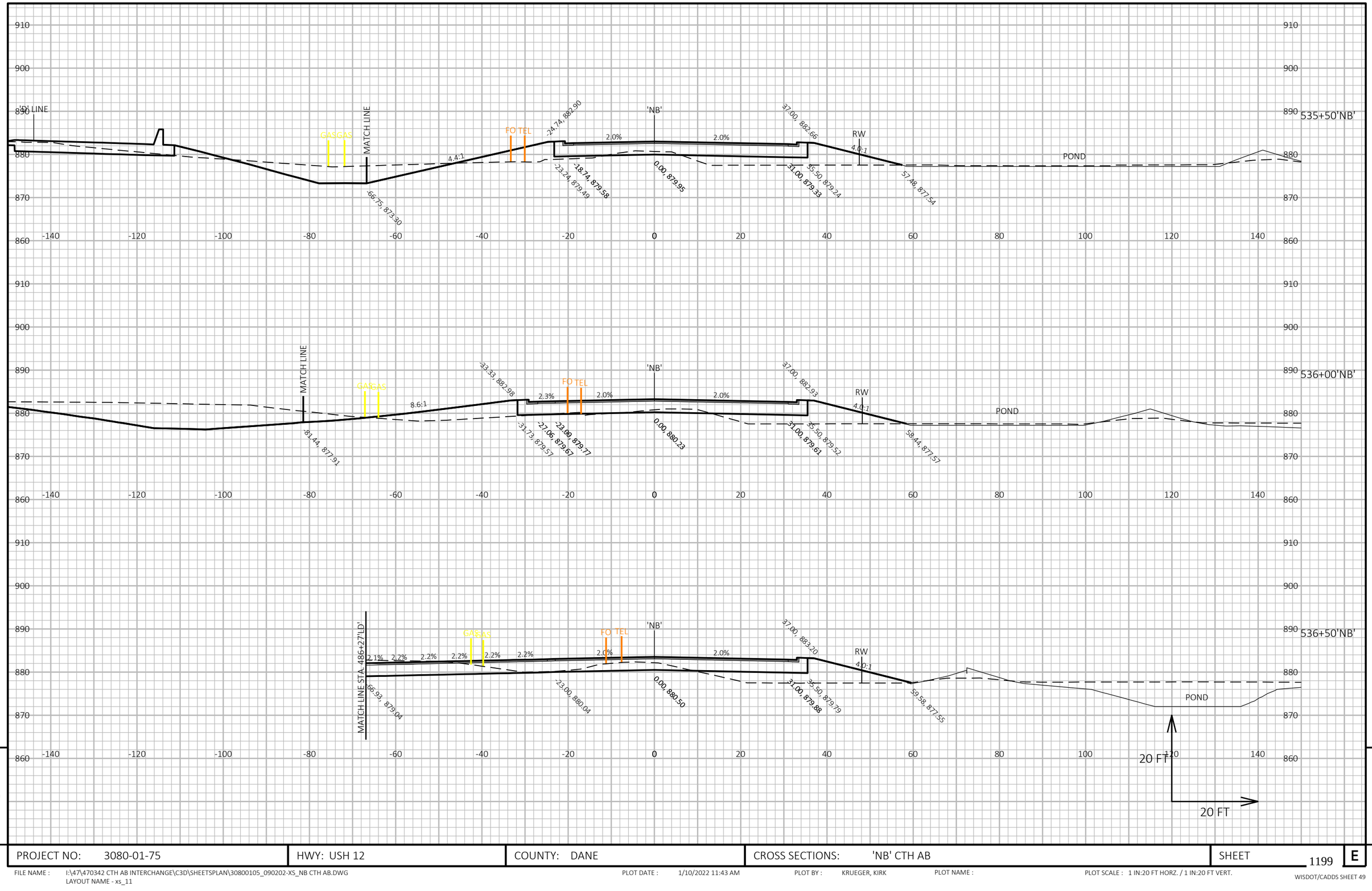


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1198 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_10

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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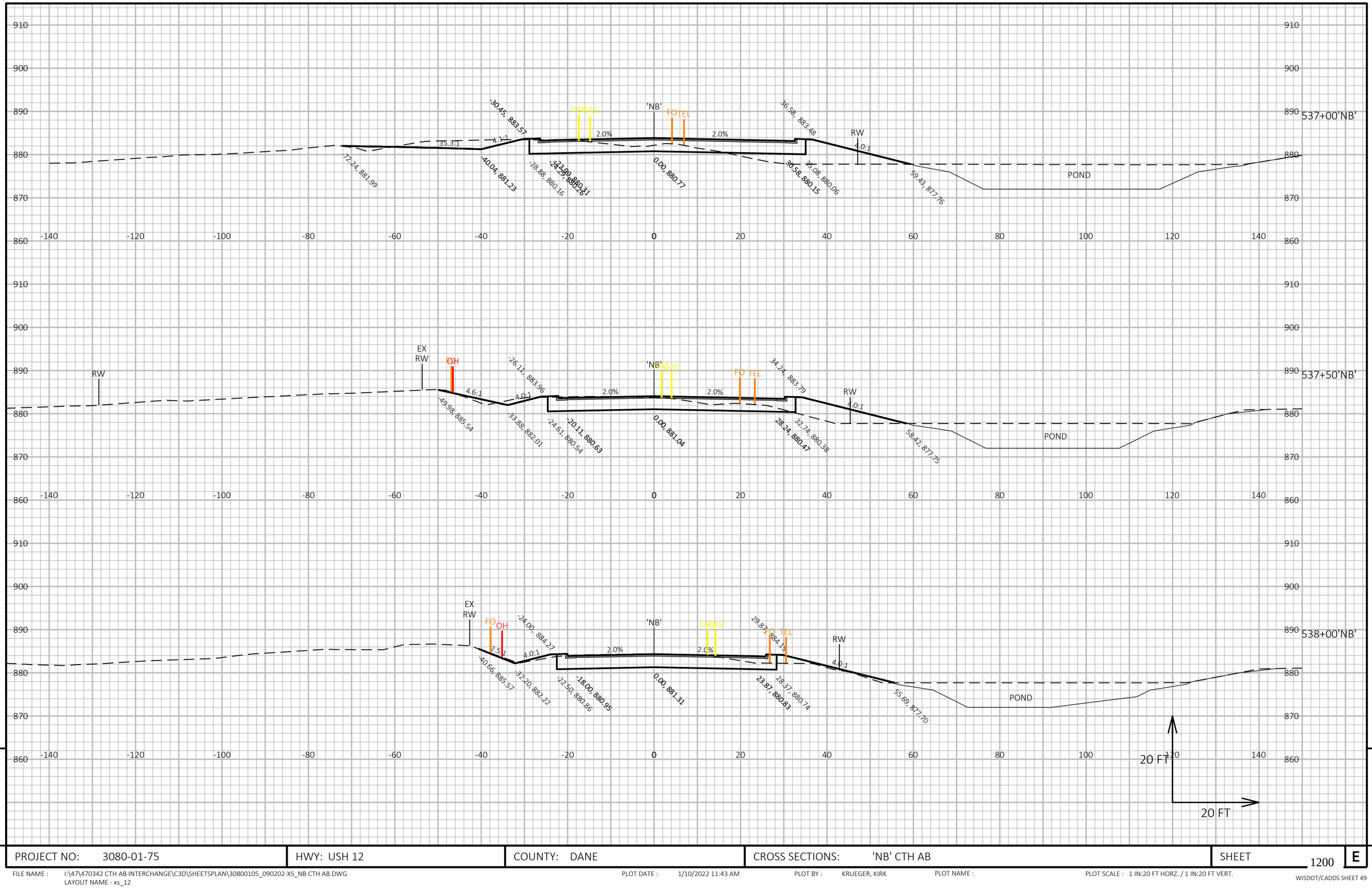
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1199	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_11

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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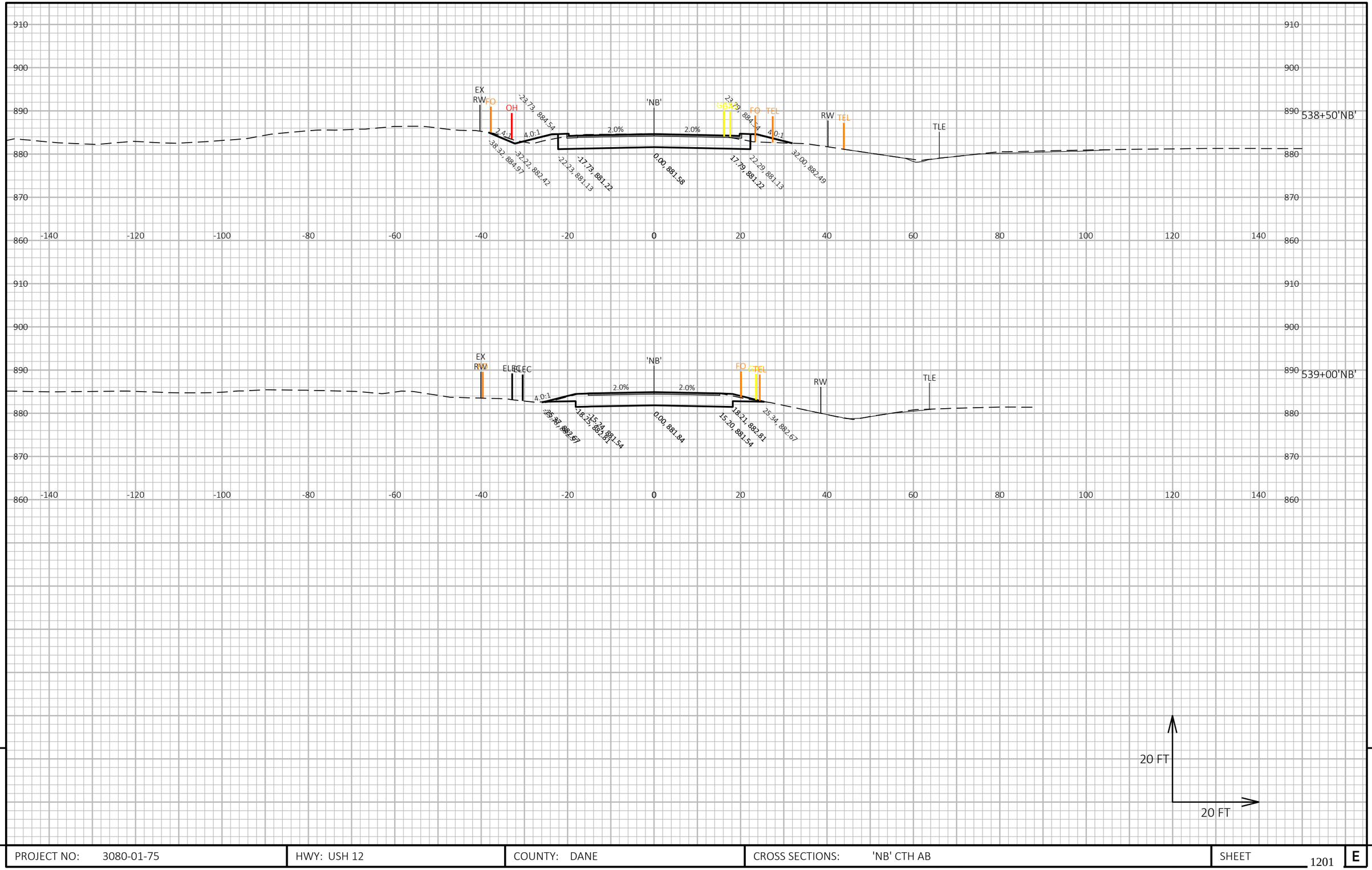
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1200	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_12

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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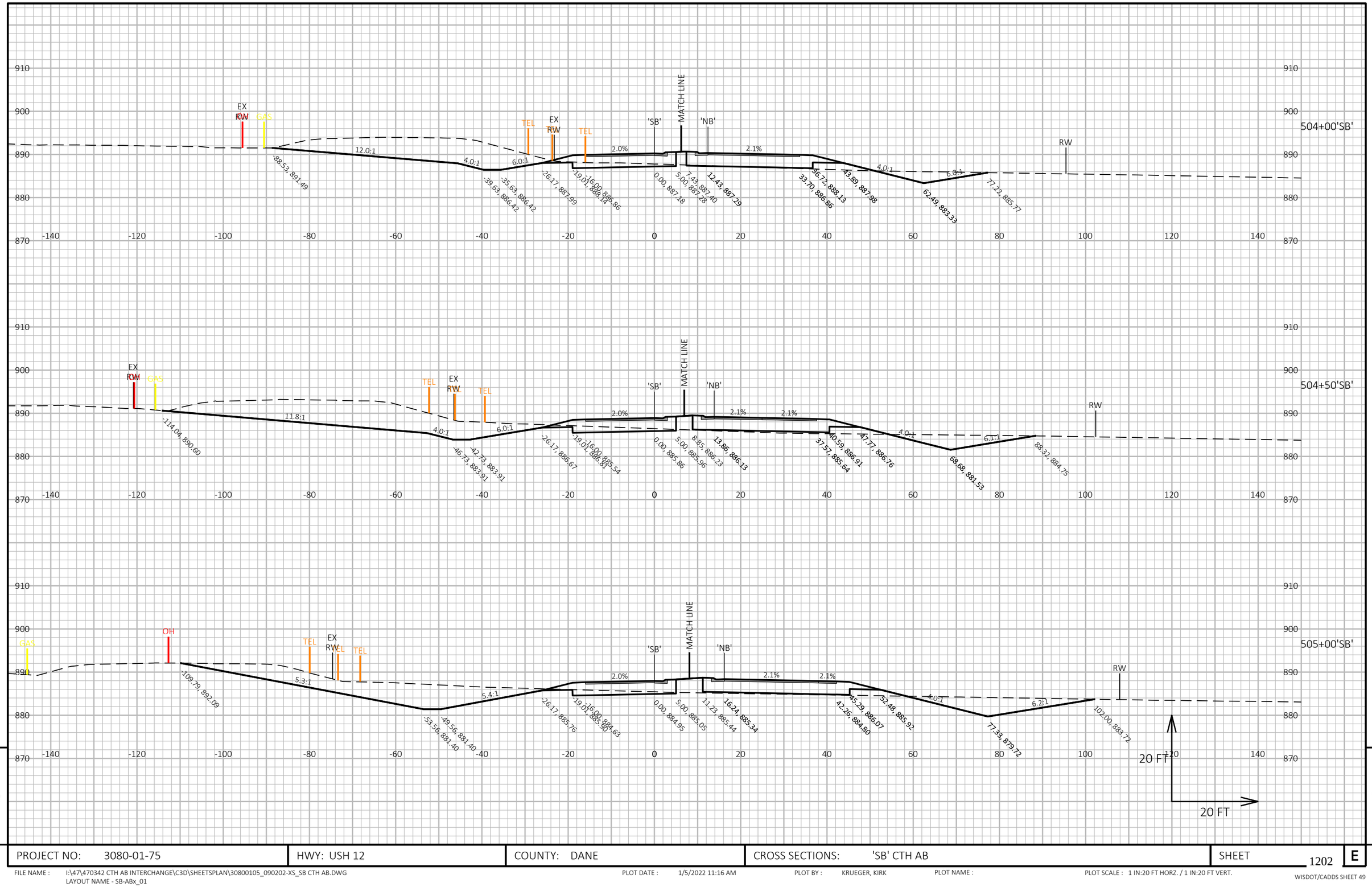
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'NB' CTH AB	SHEET 1201	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - xs_13

PLOT DATE : 1/10/2022 11:43 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'SB' CTH AB	SHEET 1202	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SB-ABx_01

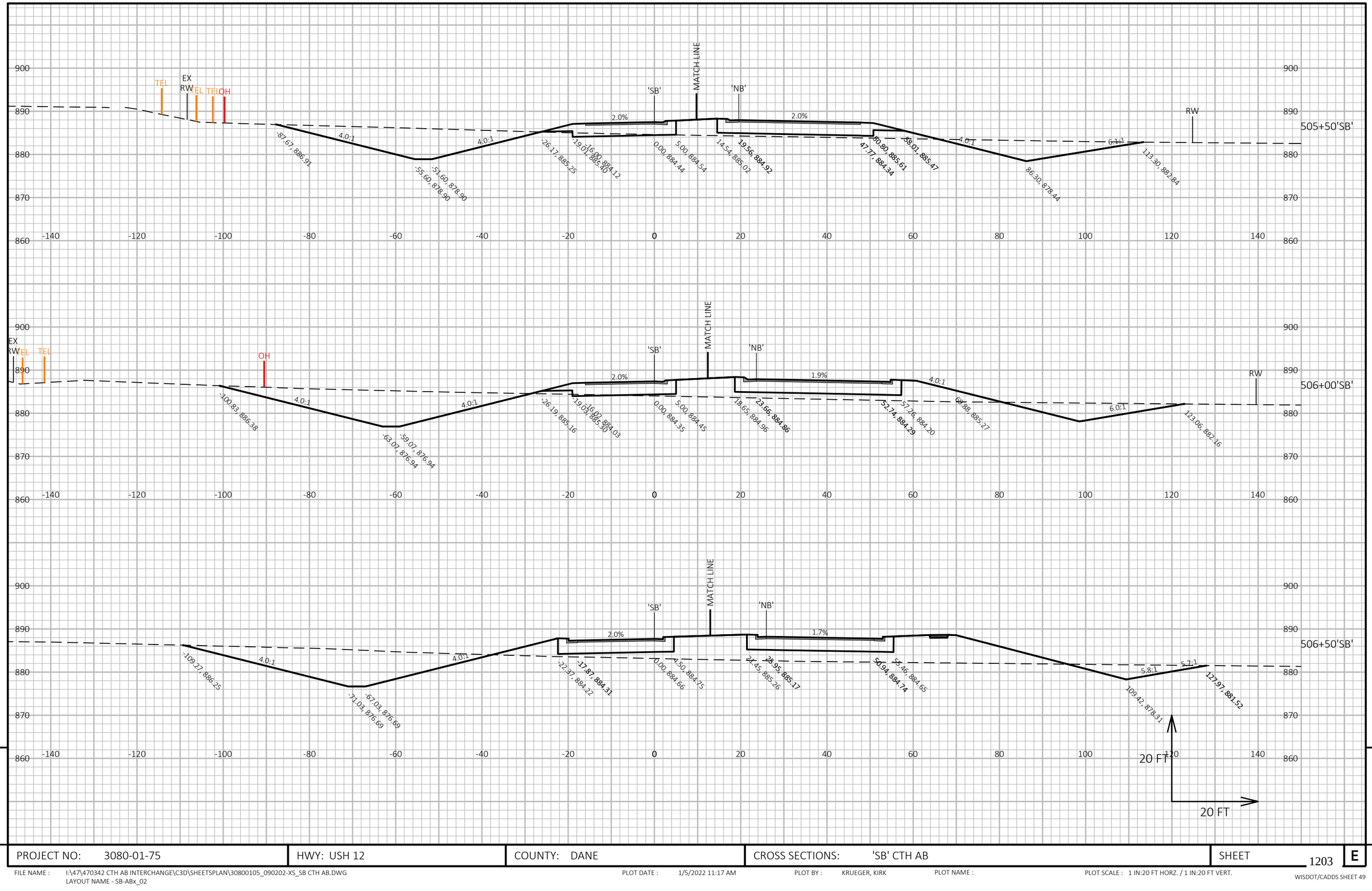
PLOT DATE : 1/5/2022 11:16 AM

PLOT BY : KRUEGER, KIRK

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'SB' CTH AB	SHEET 1203	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SB-ABx_02

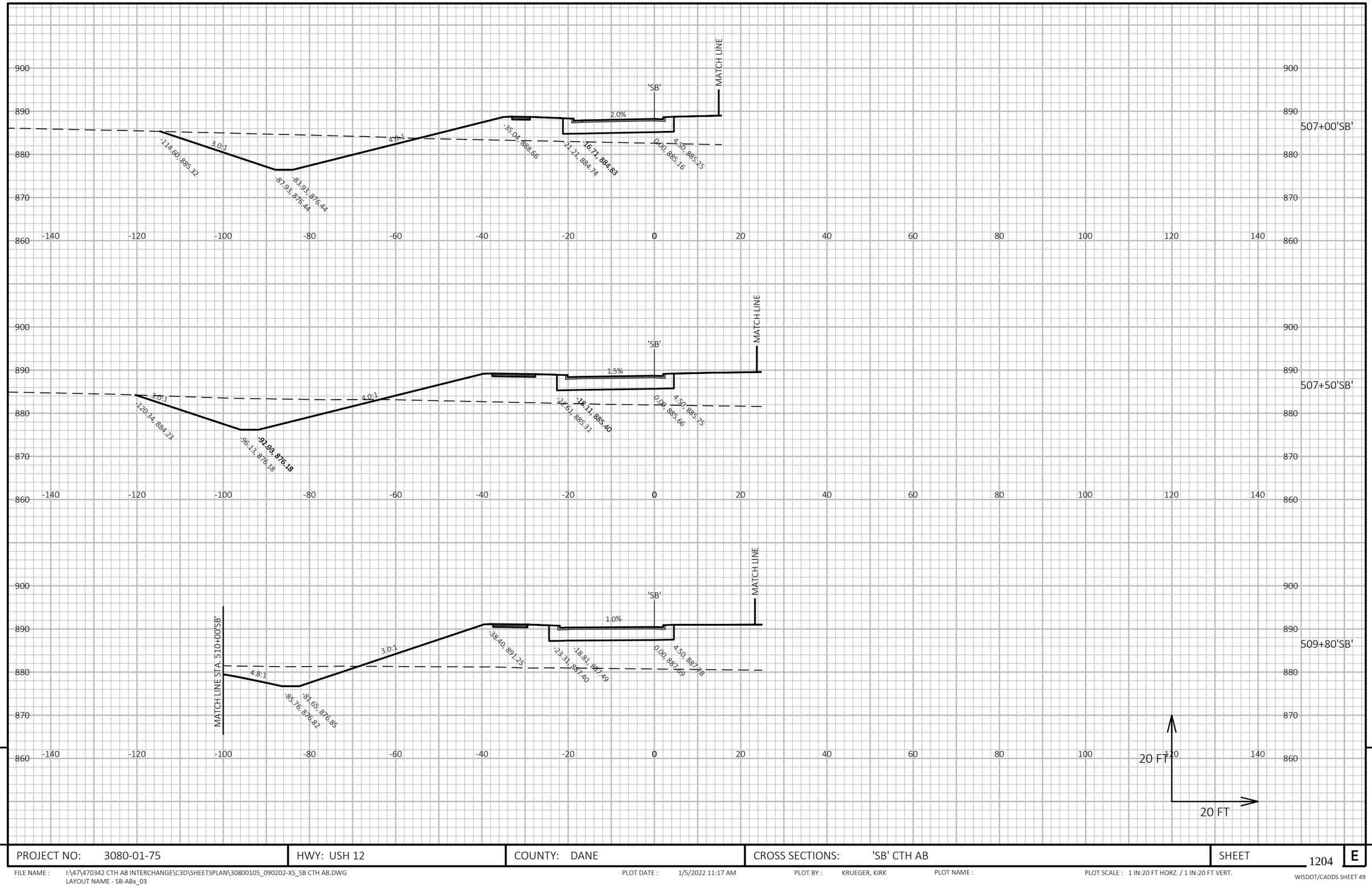
PLOT DATE : 1/5/2022 11:17 AM

PLOT BY : KRUEGER, KIRK

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

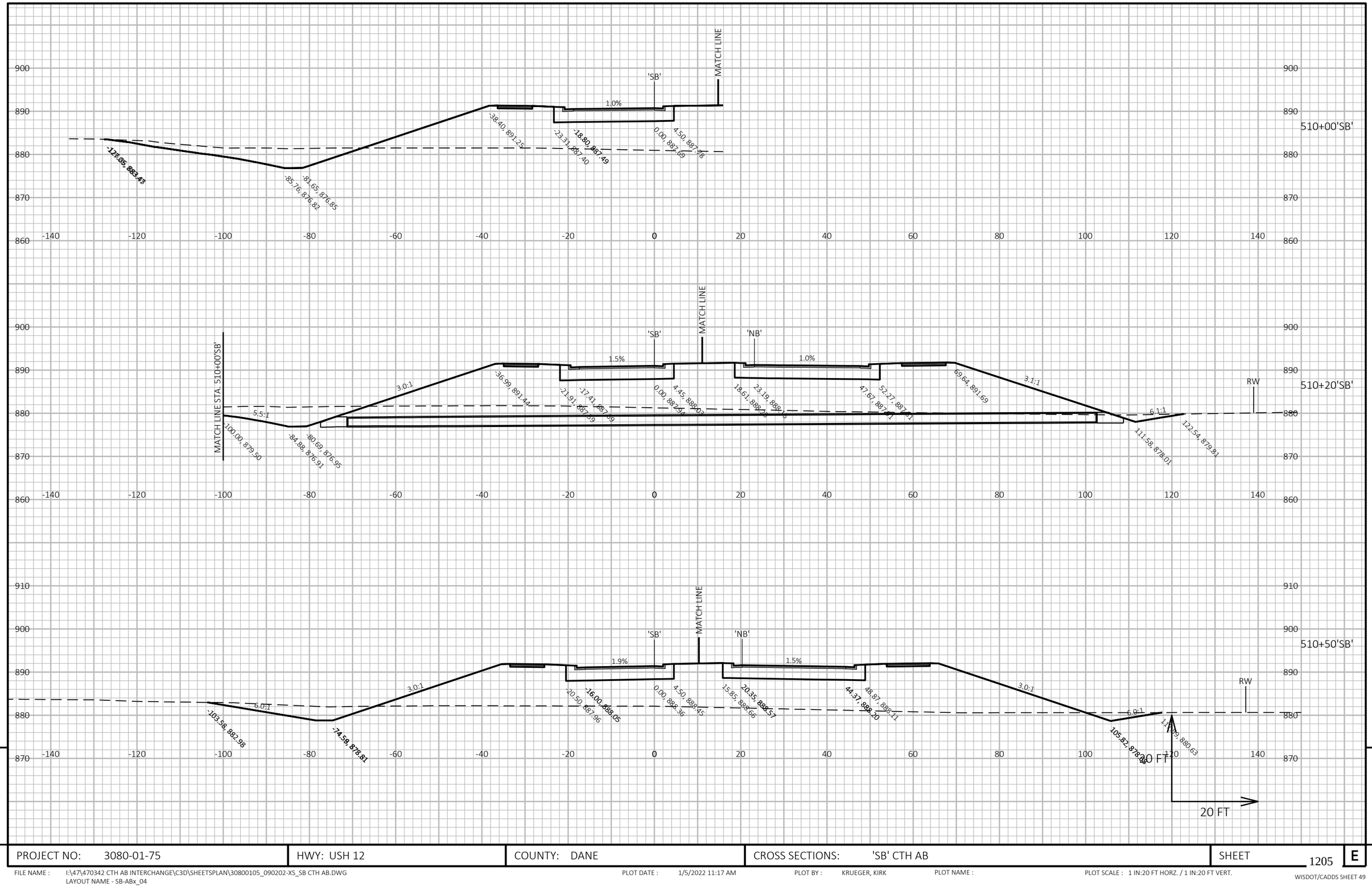


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'SB' CTH AB	SHEET 1204 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SB-ABx_03

PLOT DATE : 1/5/2022 11:17 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'SB' CTH AB	SHEET 1205	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SB-ABx_04

PLOT DATE : 1/5/2022 11:17 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

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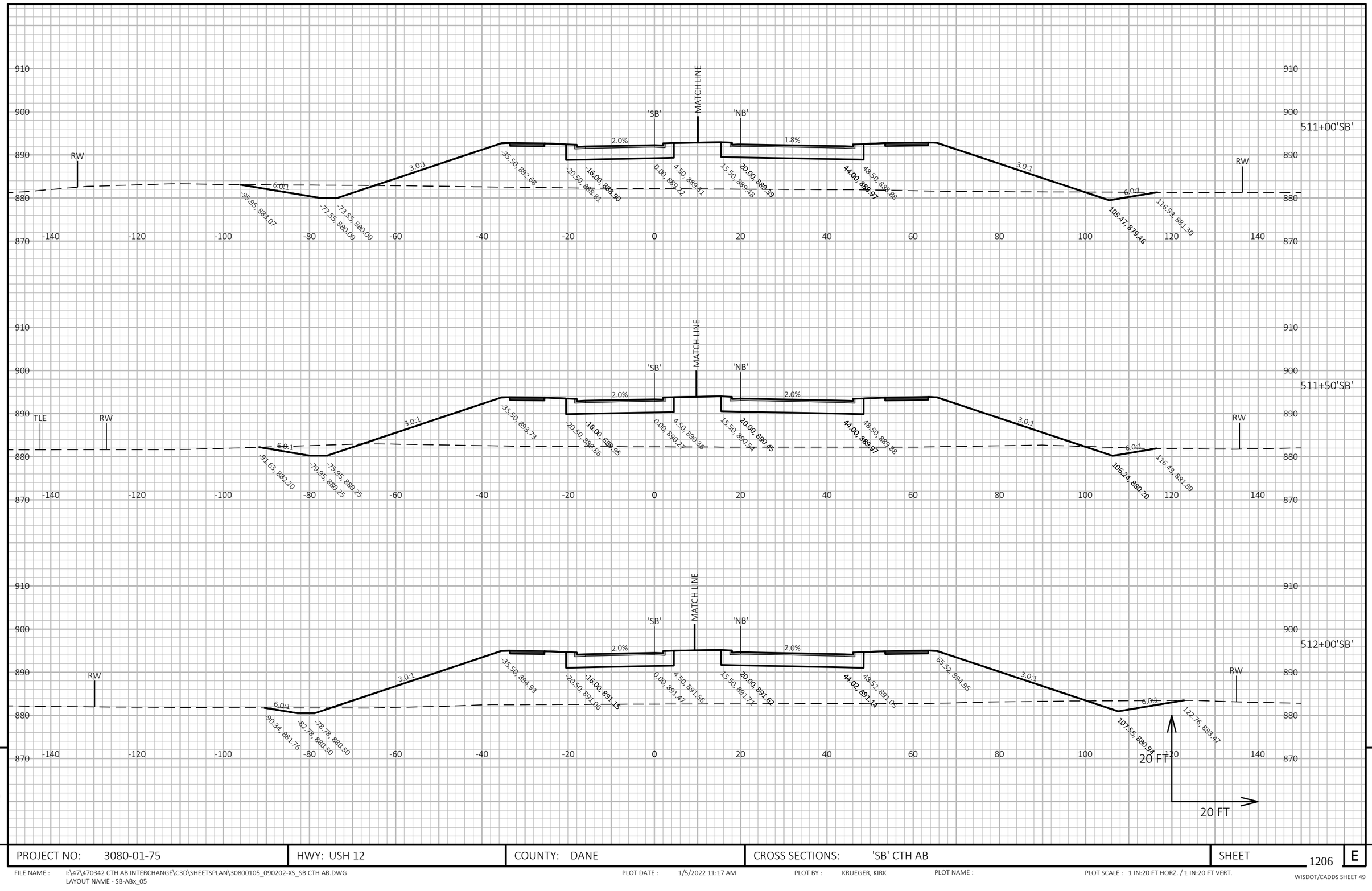

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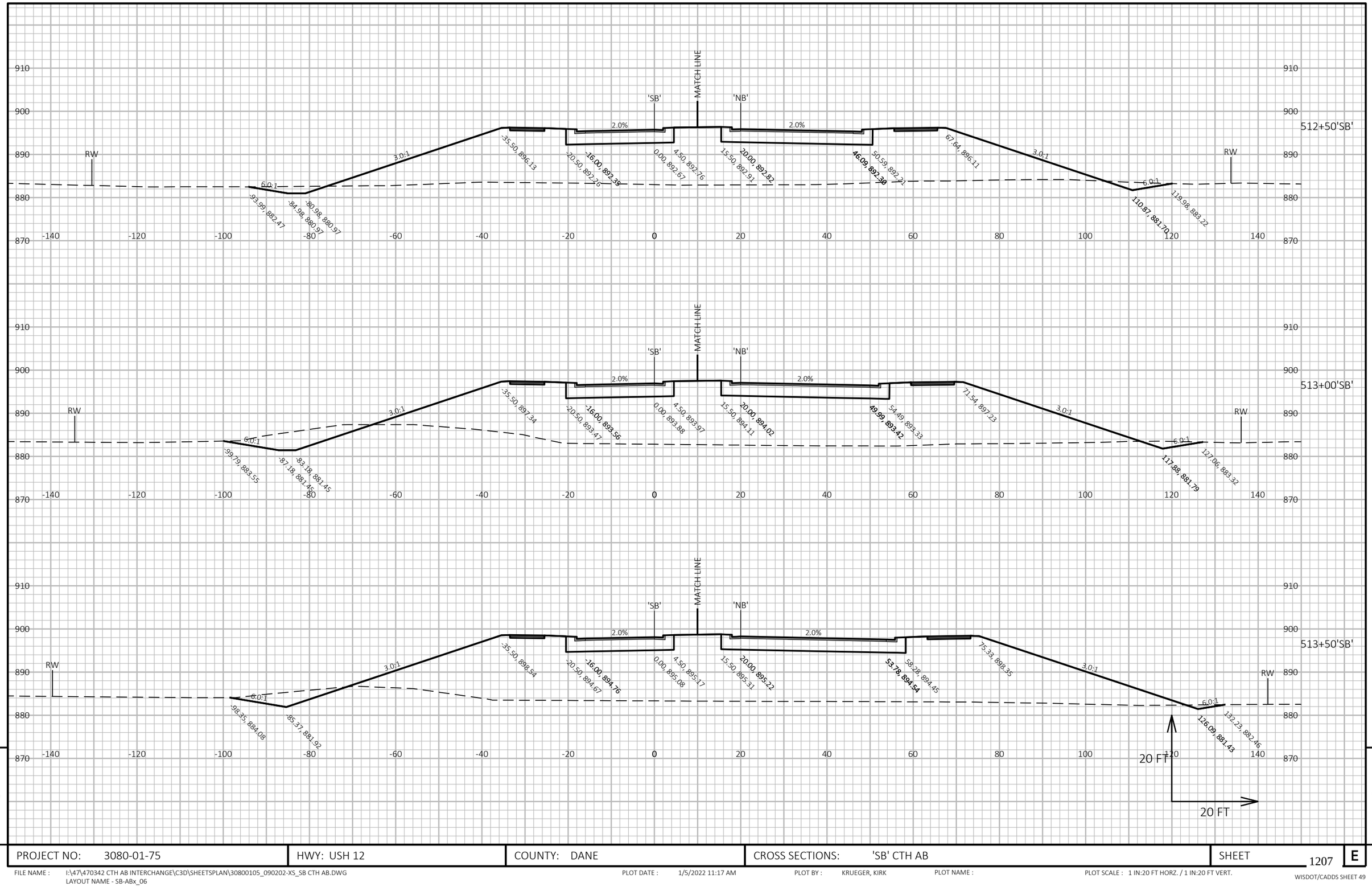
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'SB' CTH AB	SHEET 1206	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SB-ABx_05

PLOT DATE : 1/5/2022 11:17 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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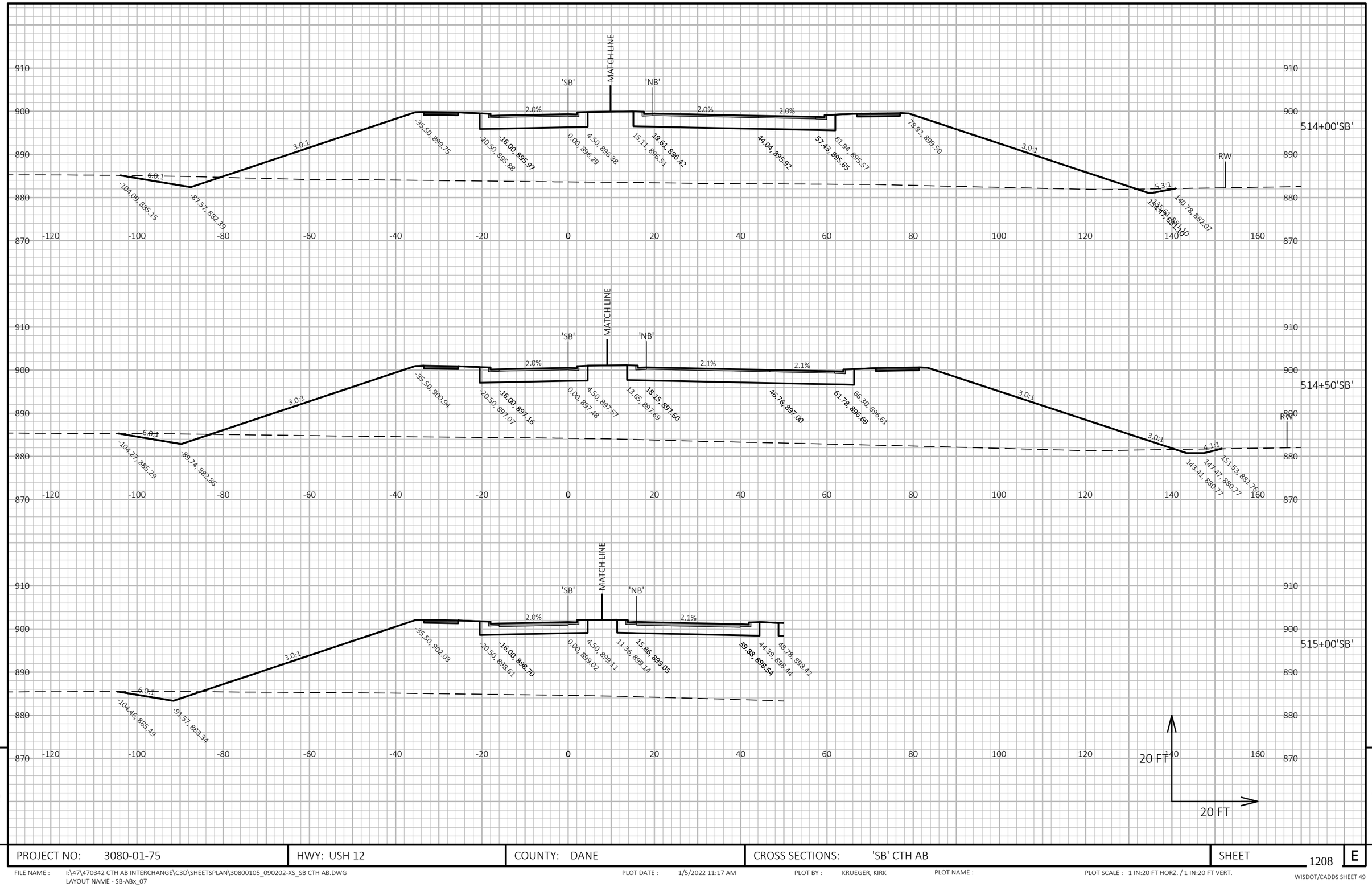
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'SB' CTH AB	SHEET 1207	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SB-ABx_06

PLOT DATE : 1/5/2022 11:17 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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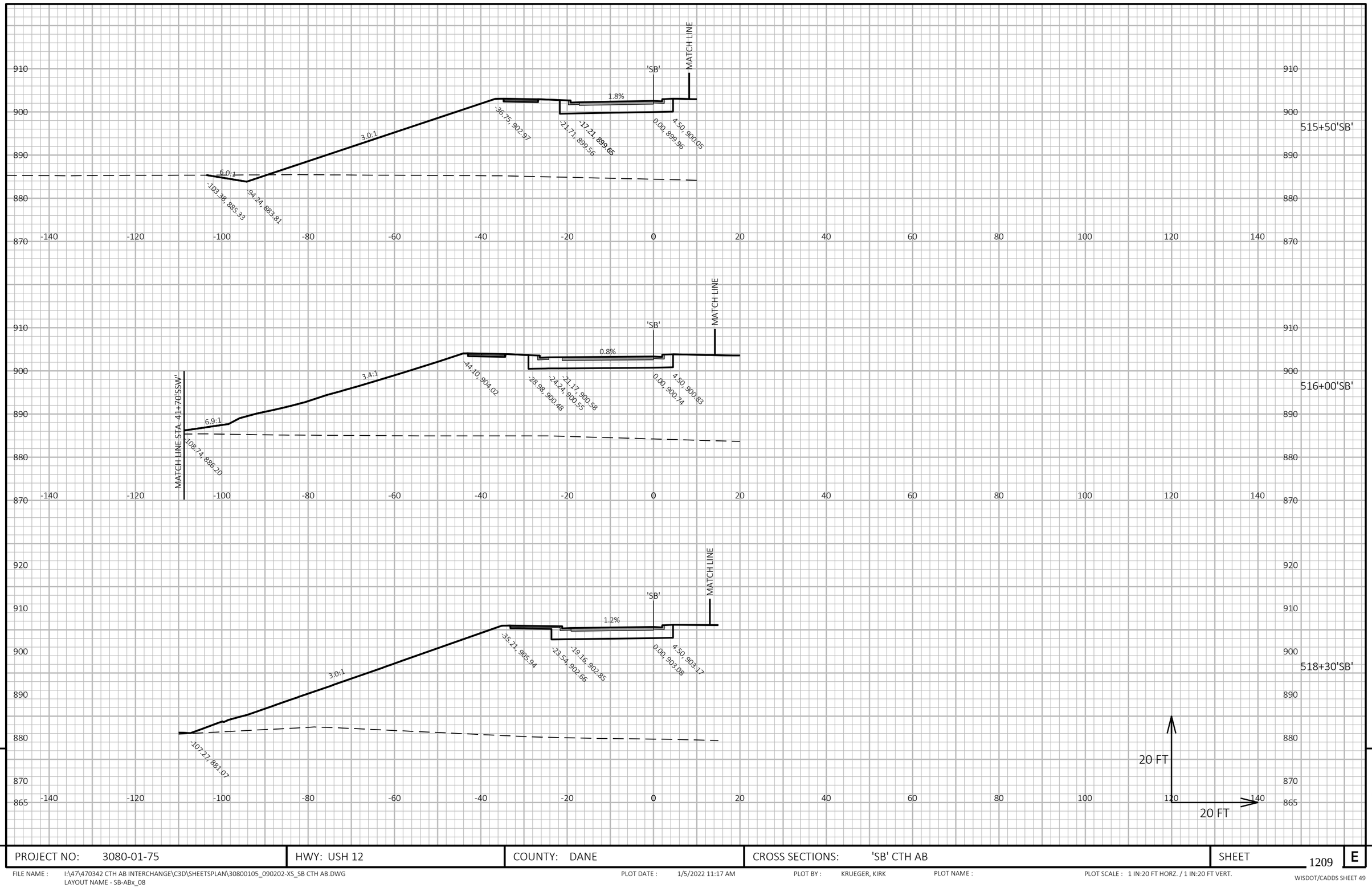
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'SB' CTH AB	SHEET 1208 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SB-ABx_07

PLOT DATE : 1/5/2022 11:17 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

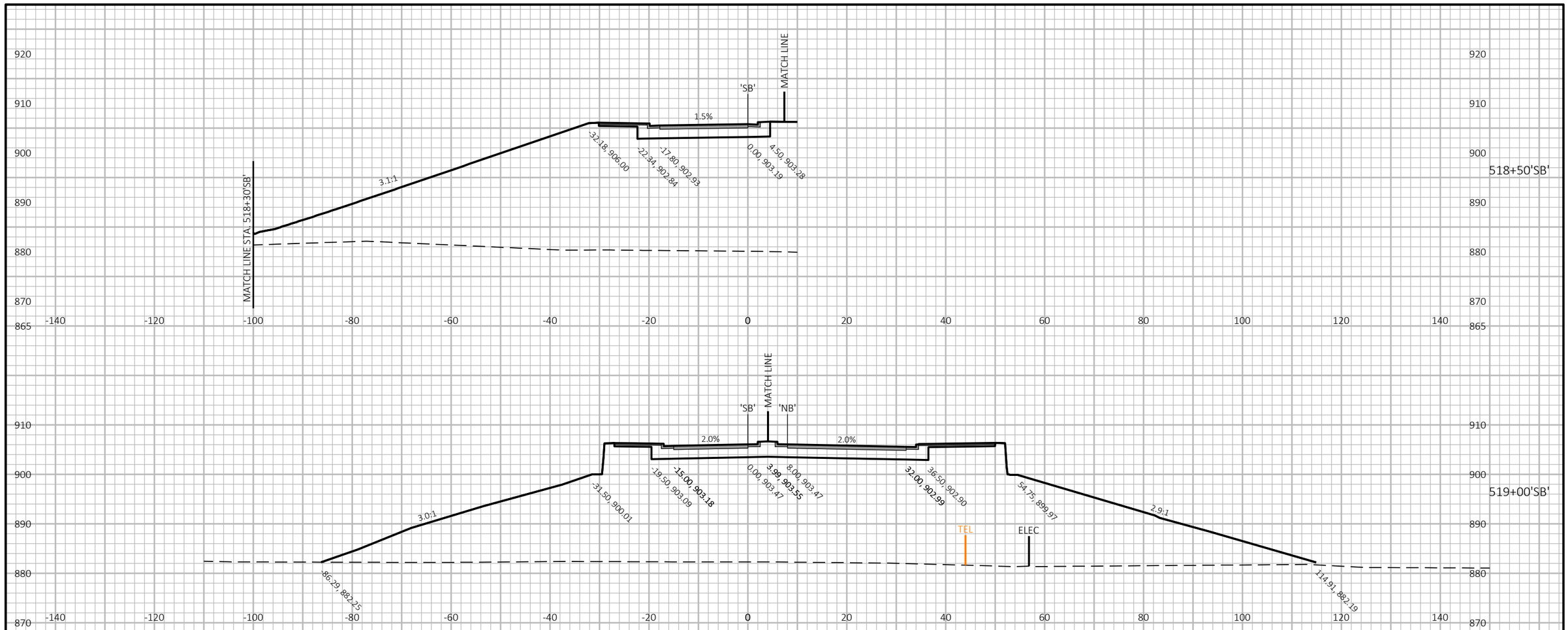


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'SB' CTH AB	SHEET 1209	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SB-ABx_08

PLOT DATE : 1/5/2022 11:17 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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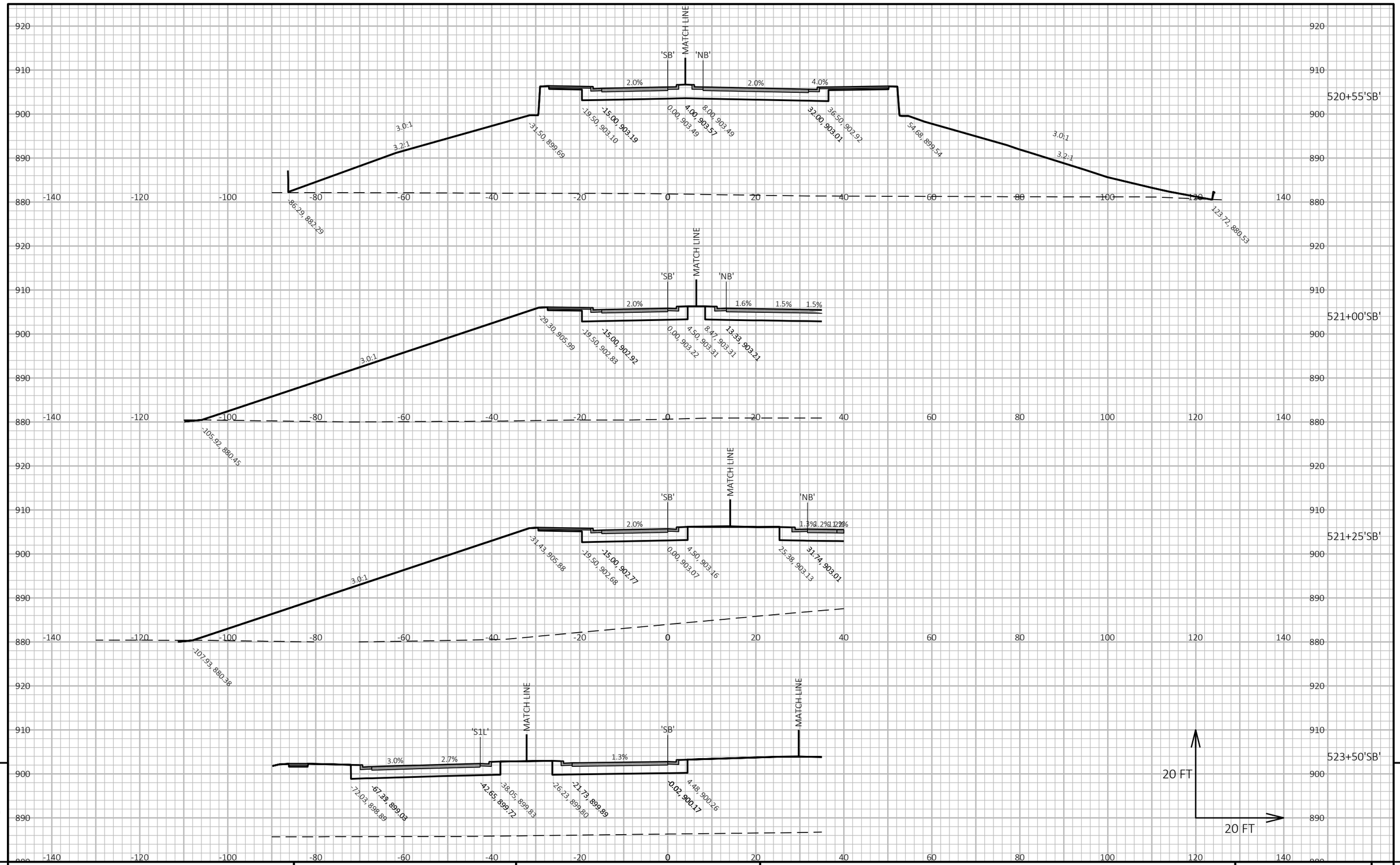
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'SB' CTH AB	SHEET 1210	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SB-ABx_09

PLOT DATE : 1/5/2022 11:17 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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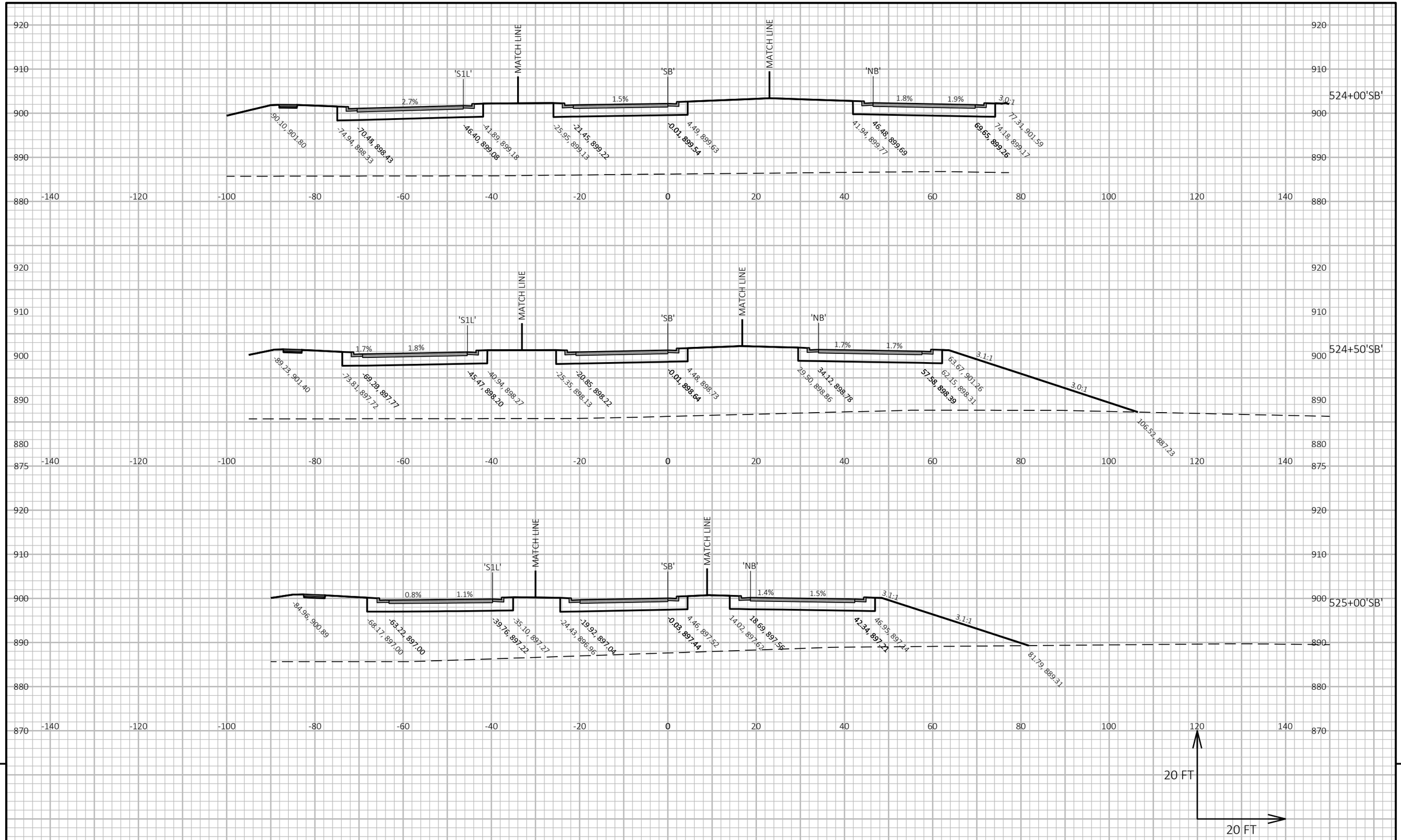
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'SB' CTH AB	SHEET 1211	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SB-ABx_20

PLOT DATE : 1/5/2022 11:17 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'SB' CTH AB	SHEET 1212 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SB-ABx_21

PLOT DATE : 1/5/2022 11:17 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

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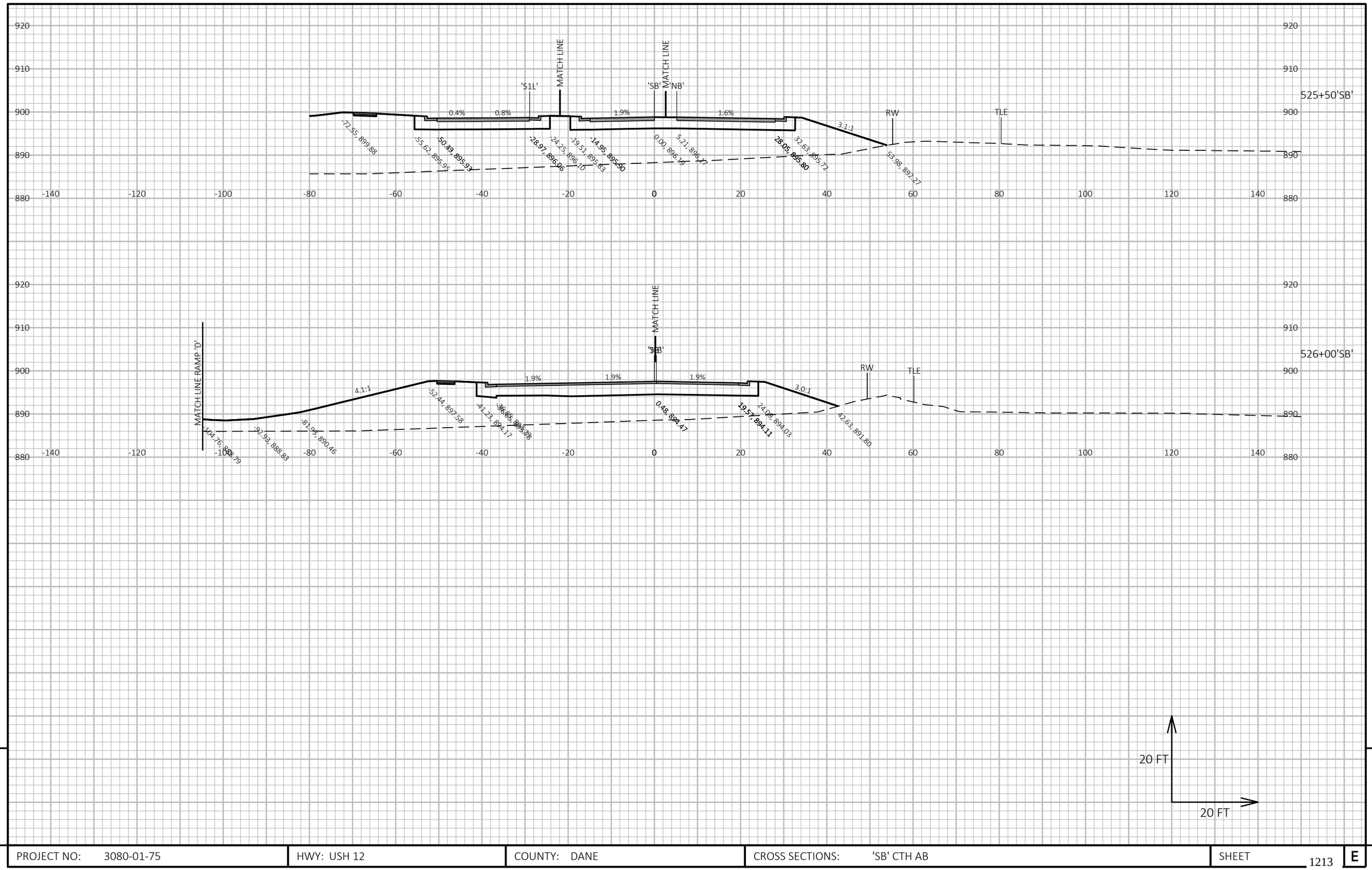
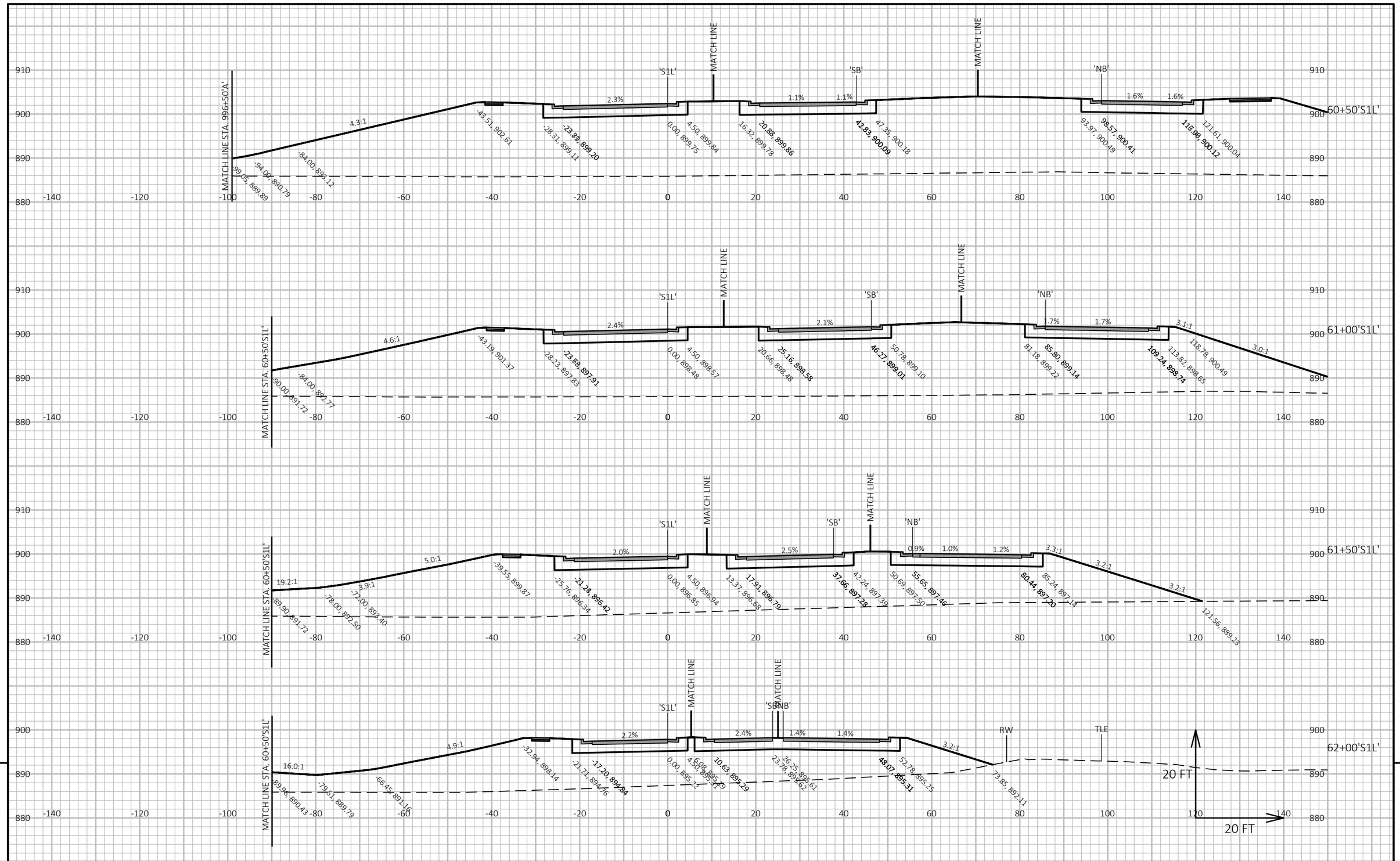


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'SB' CTH AB	SHEET 1213	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SB-ABx_22

PLOT DATE : 1/5/2022 11:17 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



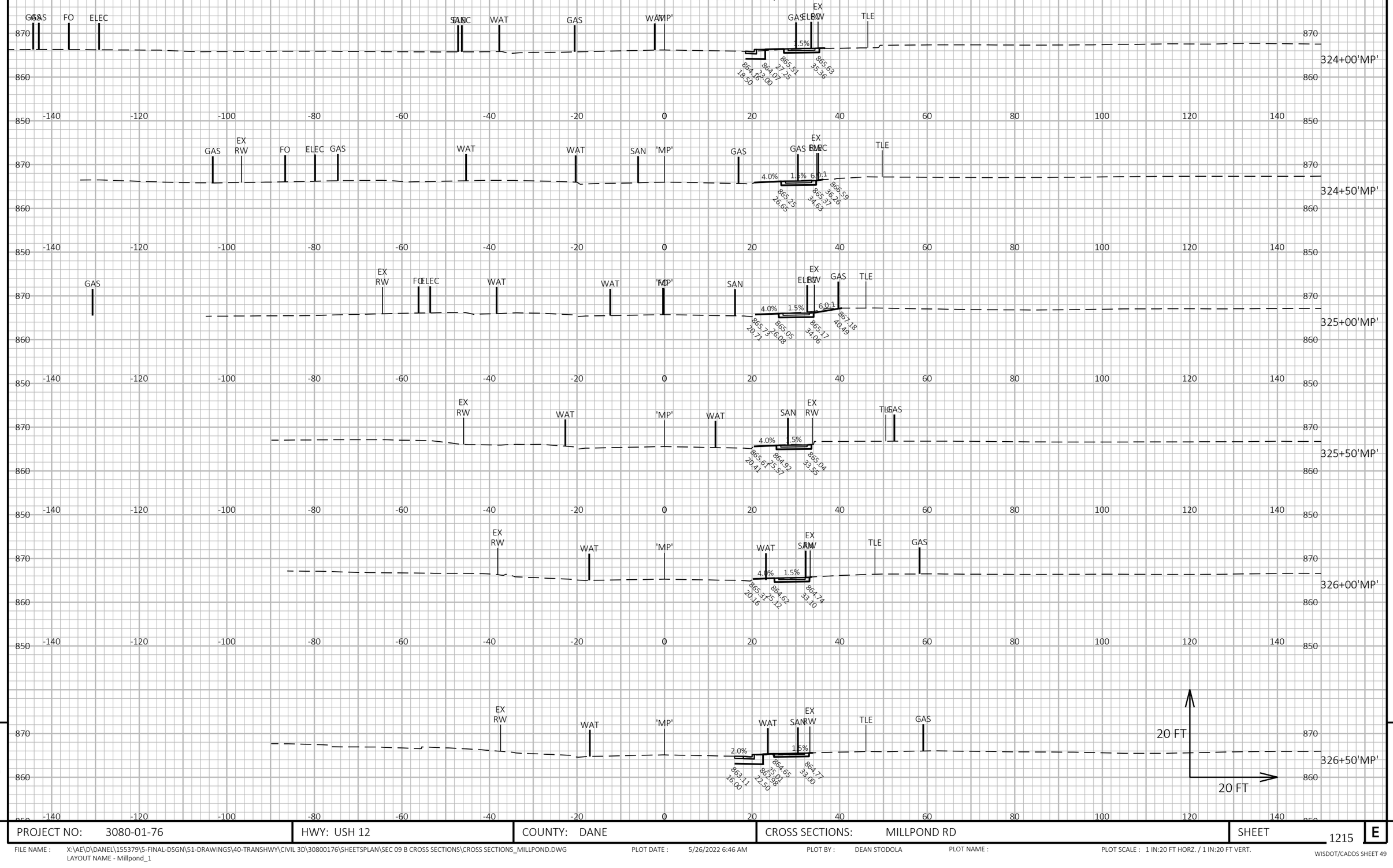
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'S1L' LINE	SHEET 1214 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_SB CTH AB.DWG
LAYOUT NAME - SIL_01

PLOT DATE : 1/5/2022 11:17 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

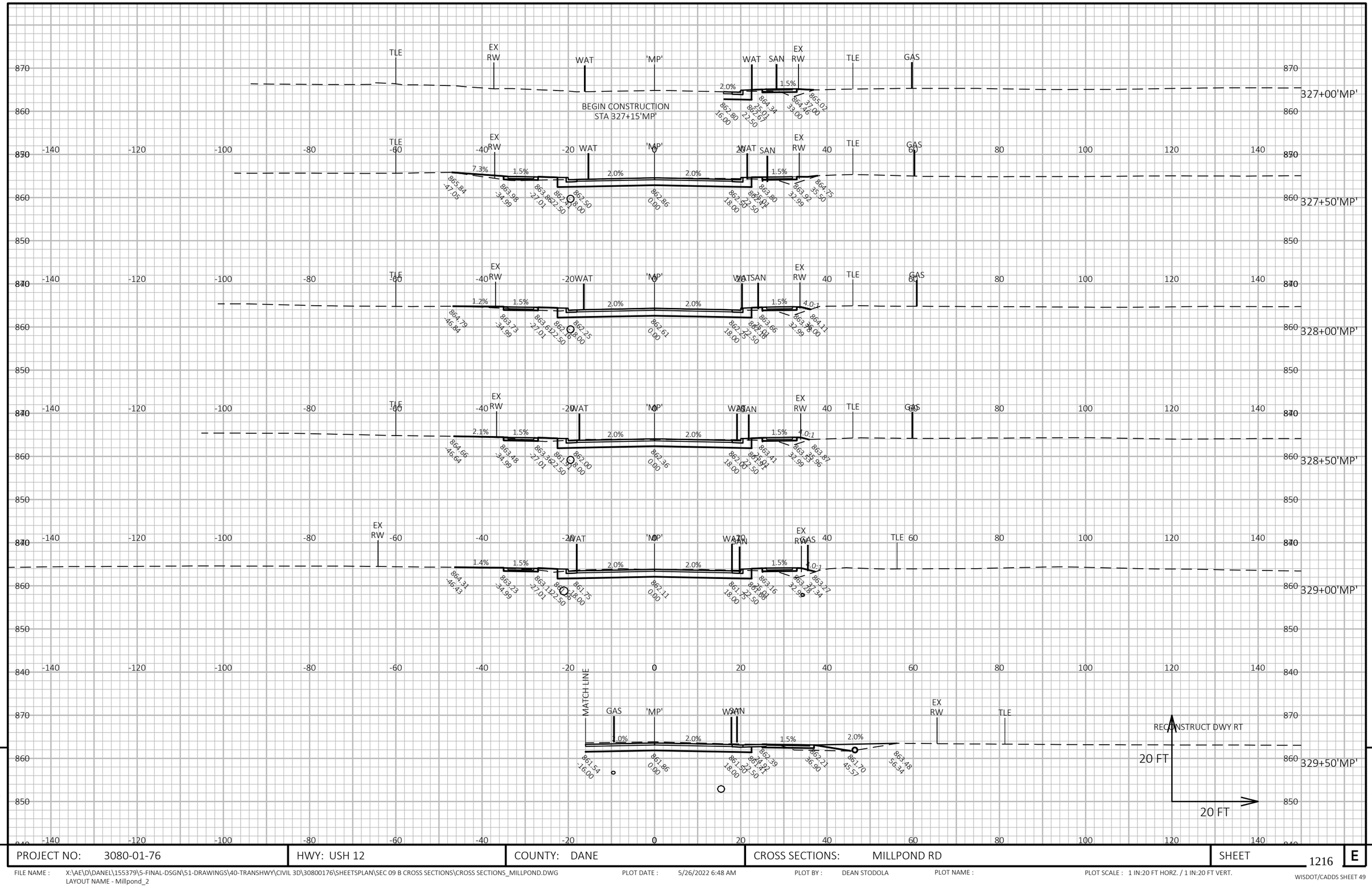
BEGIN MULTI-USE PATH CONSTRUCTION
STA 323+99'MP', RT



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1215	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_1
PLOT DATE : 5/26/2022 6:46 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1216 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_2
PLOT DATE : 5/26/2022 6:48 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1217	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_3

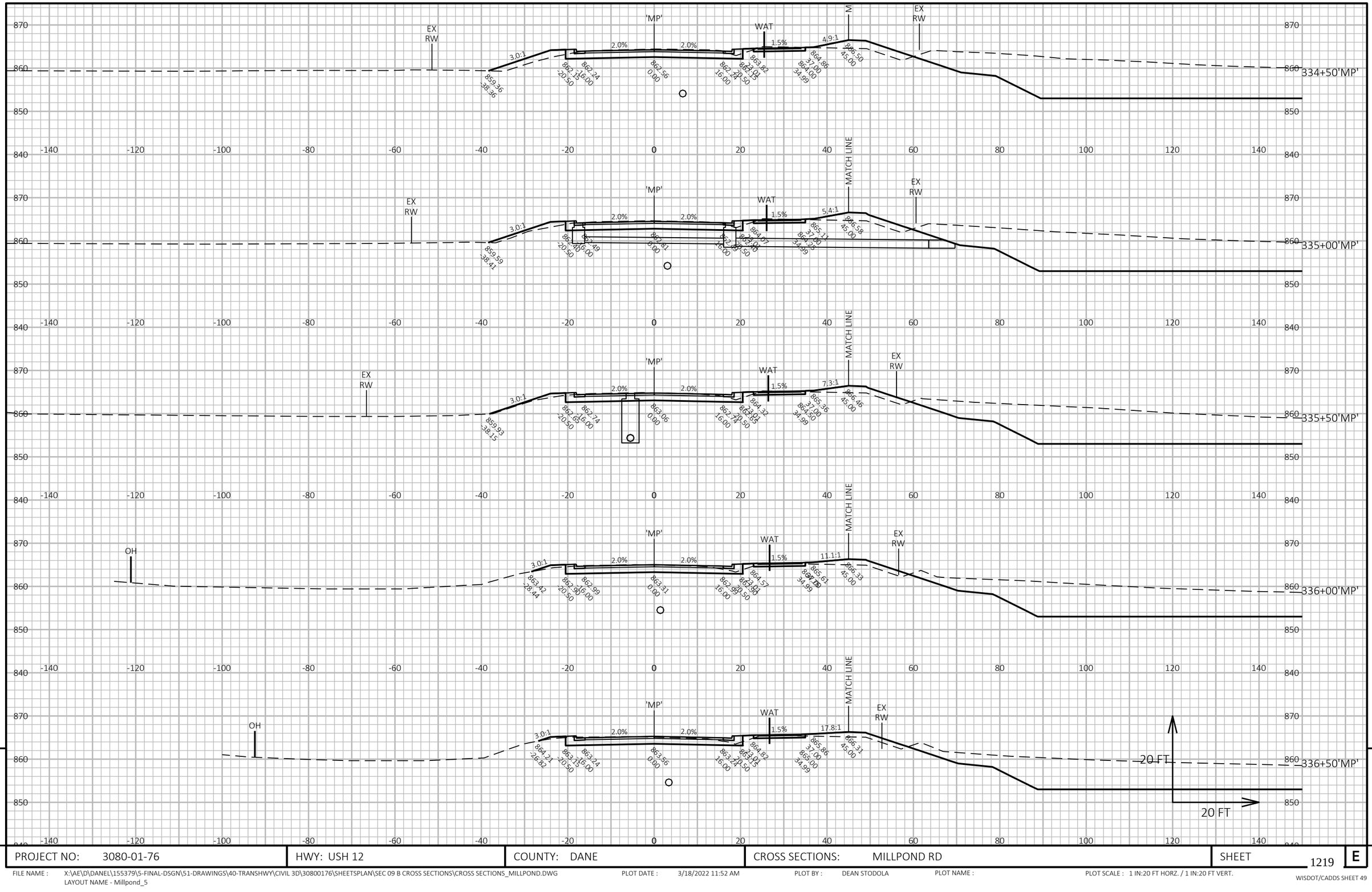
PLOT DATE : 5/26/2022 6:49 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1218 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_4
PLOT DATE : 3/18/2022 11:52 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

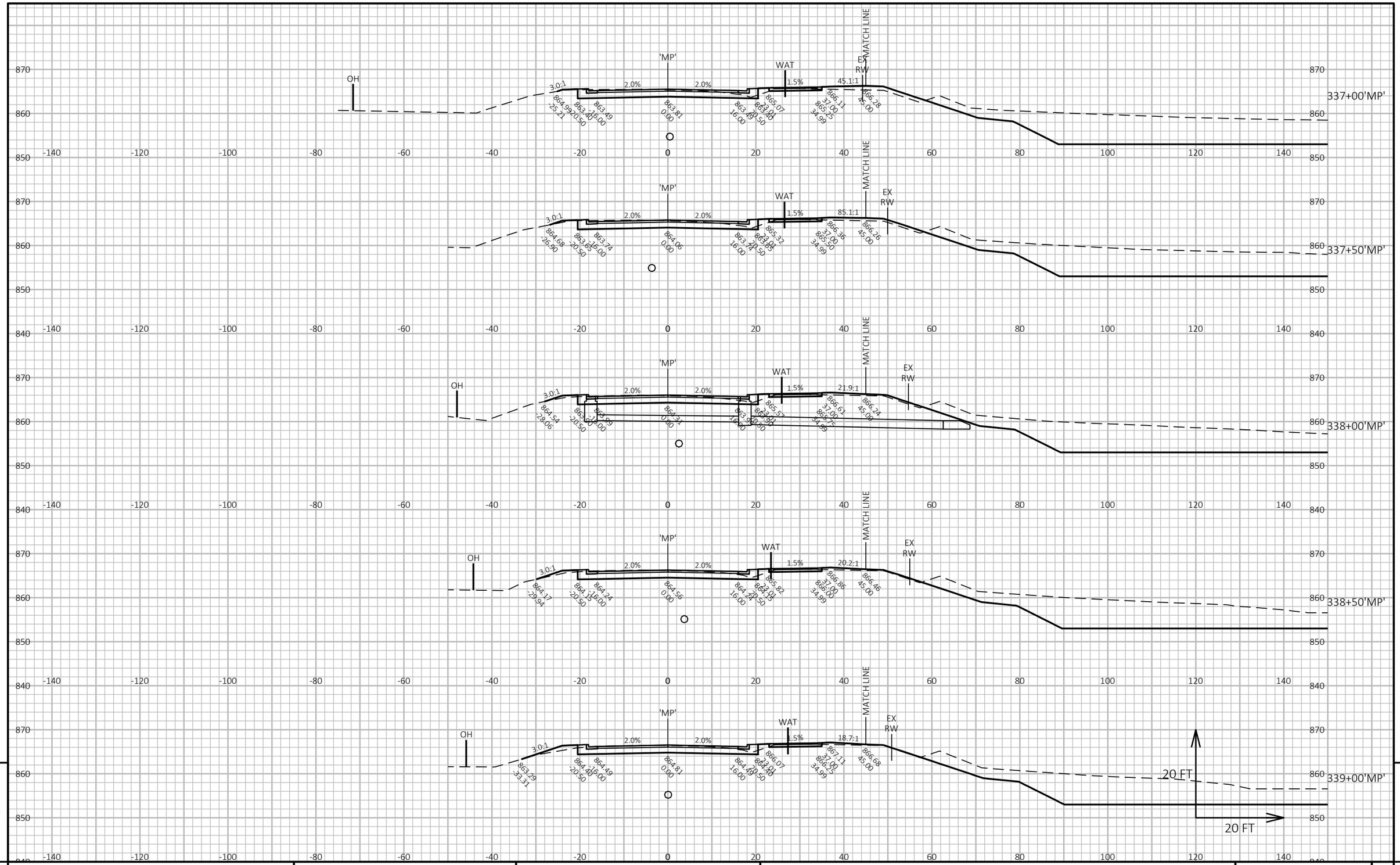
WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1219 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_5
PLOT DATE : 3/18/2022 11:52 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

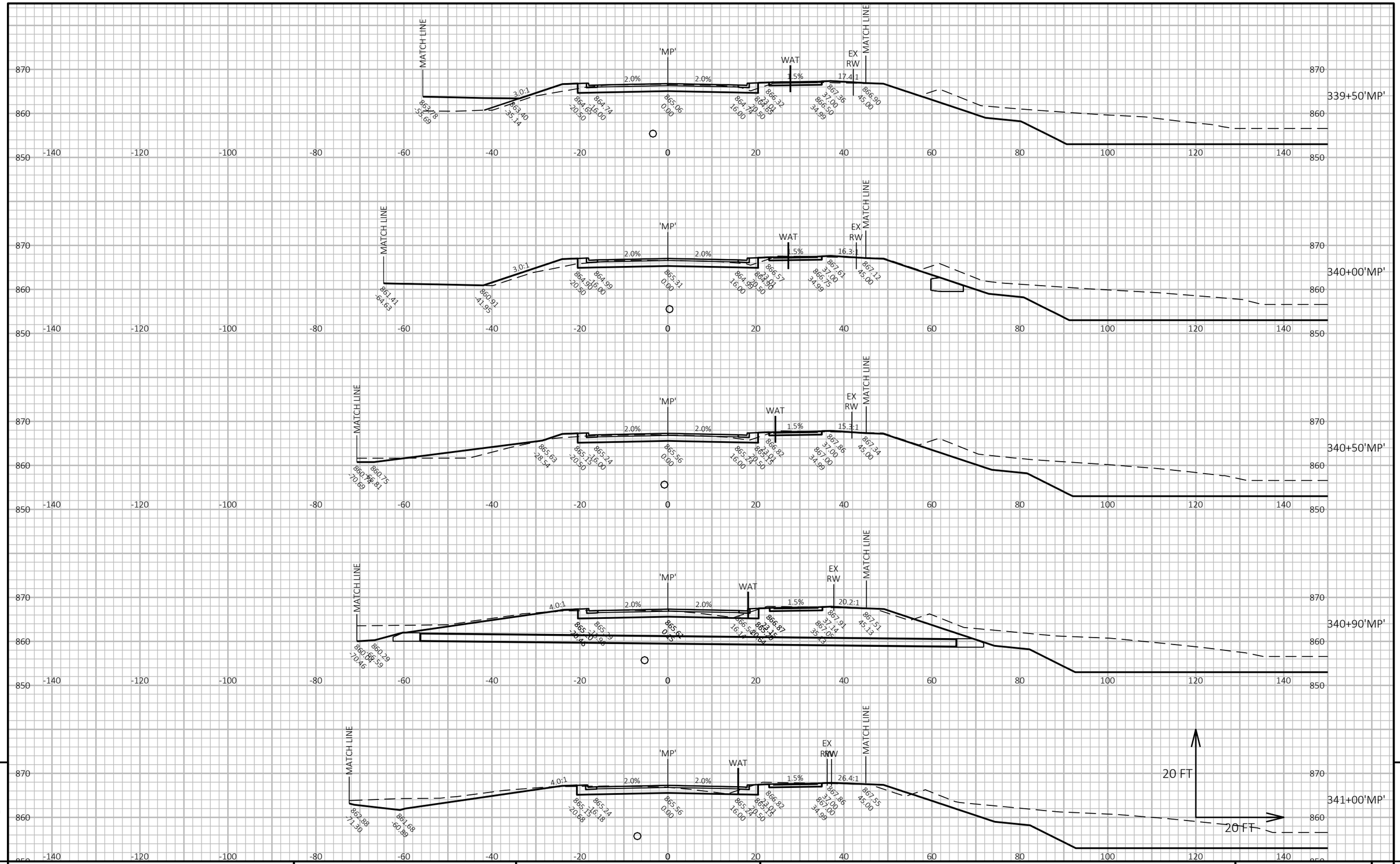
WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1220	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_6
PLOT DATE : 3/18/2022 11:53 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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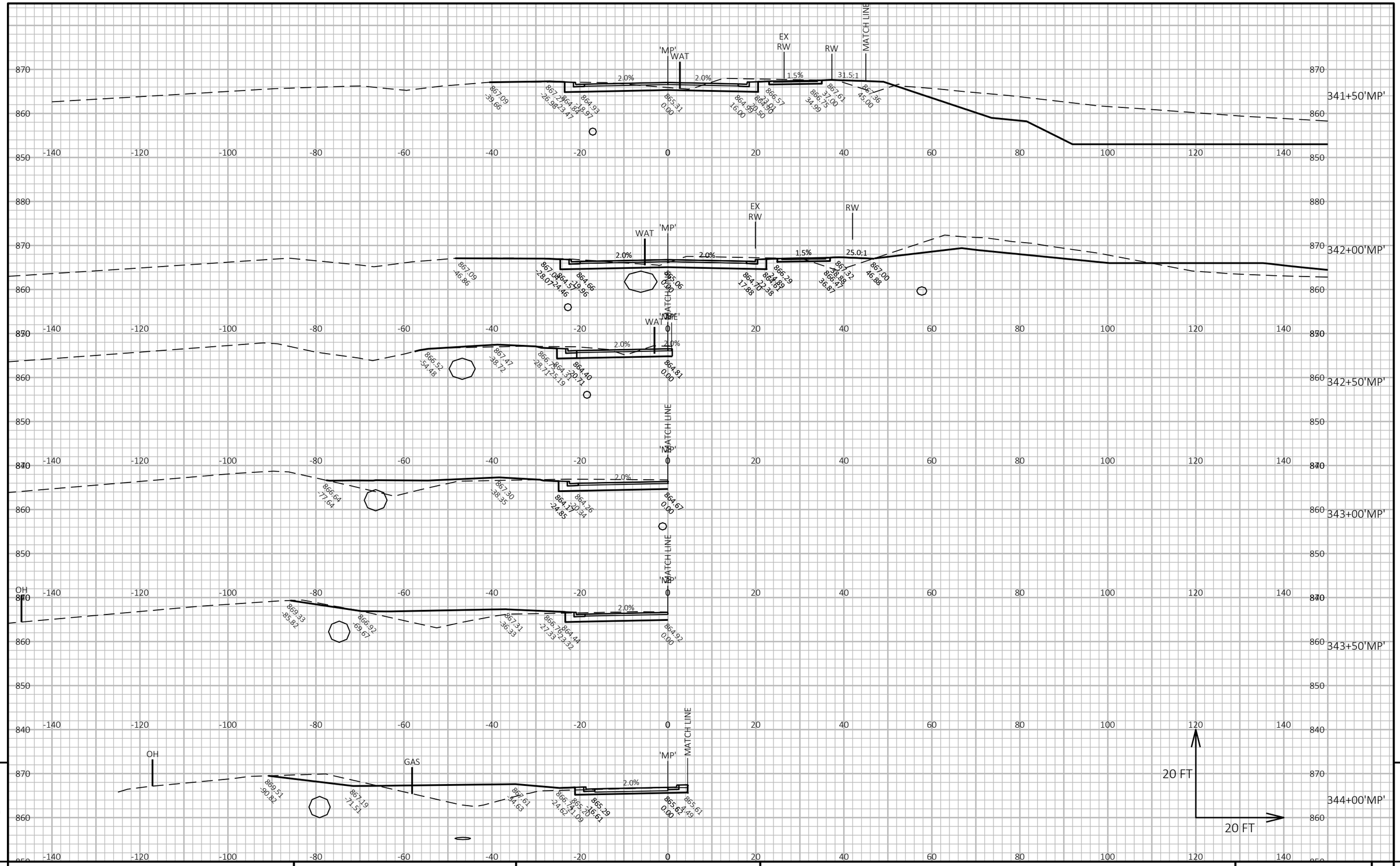
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1221	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_7
PLOT DATE : 3/18/2022 11:53 AM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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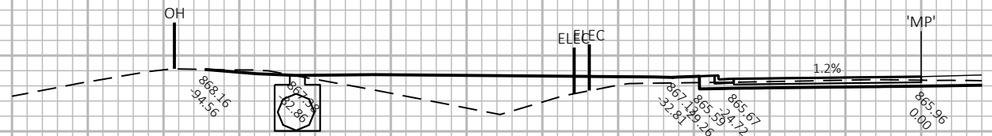
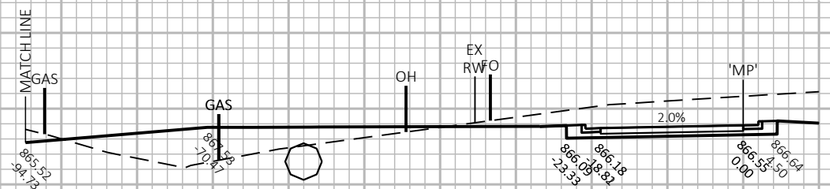
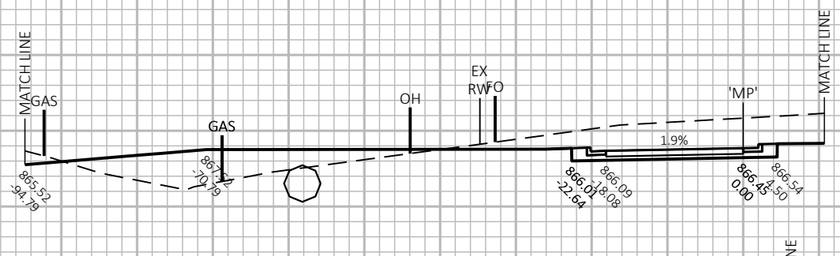
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1222	E

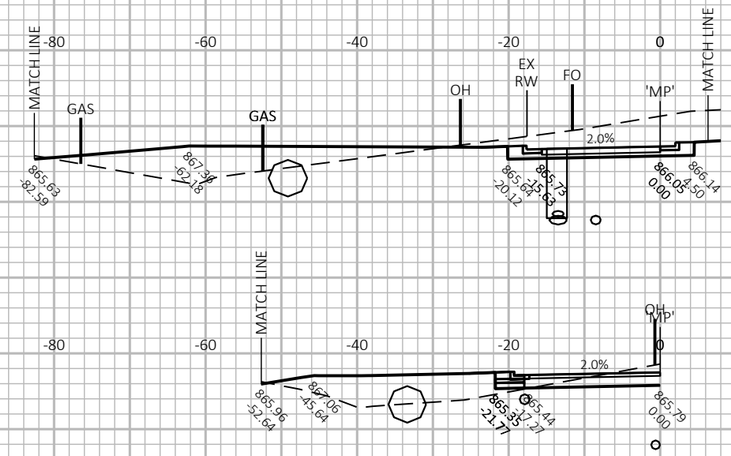
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_8
PLOT DATE : 3/18/2022 11:54 AM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49

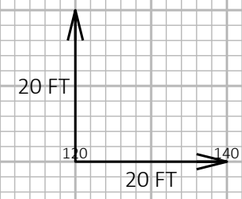
MILLPOND RD ROUNDABOUT







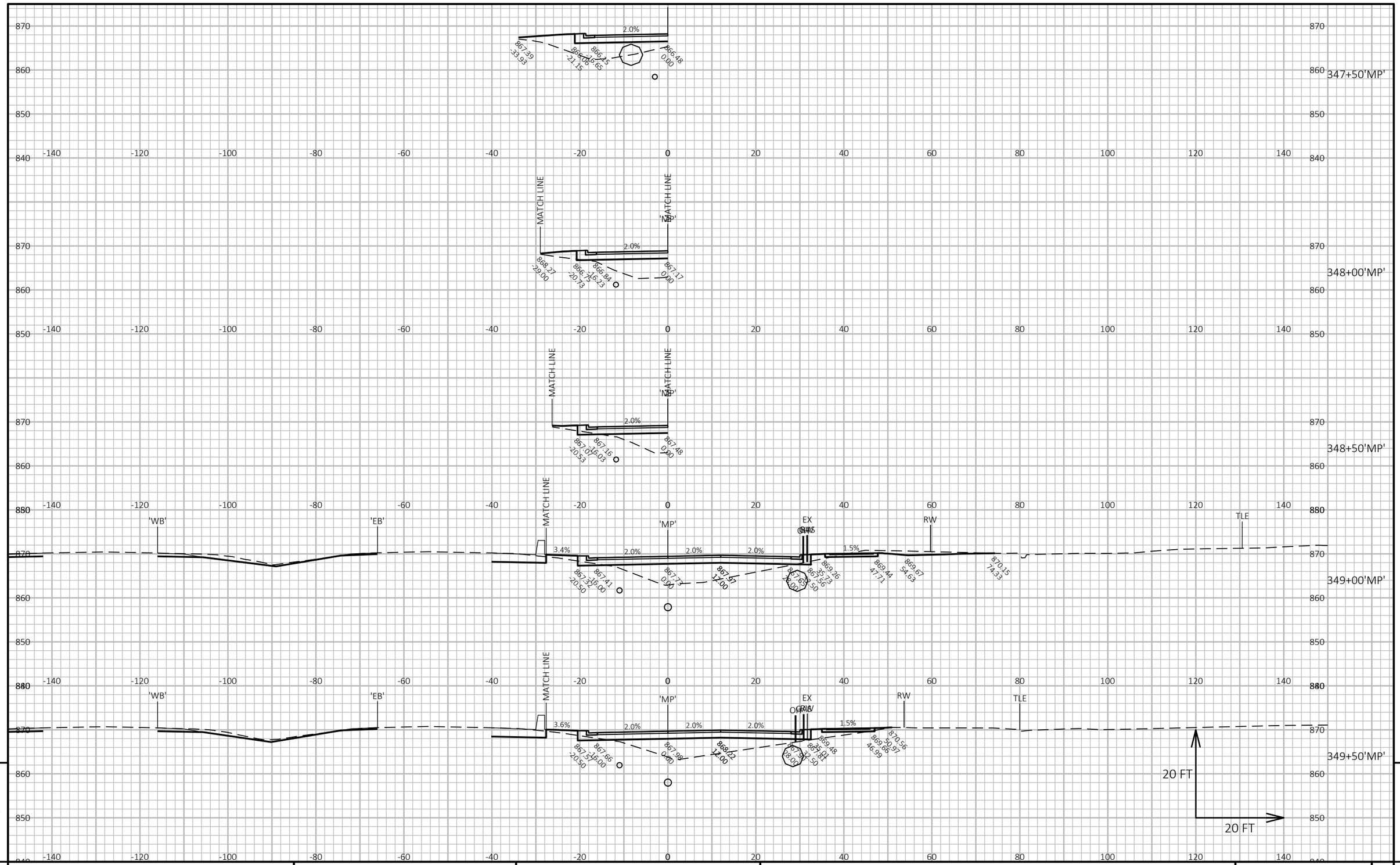




PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1223	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_9
PLOT DATE : 3/18/2022 11:55 AM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

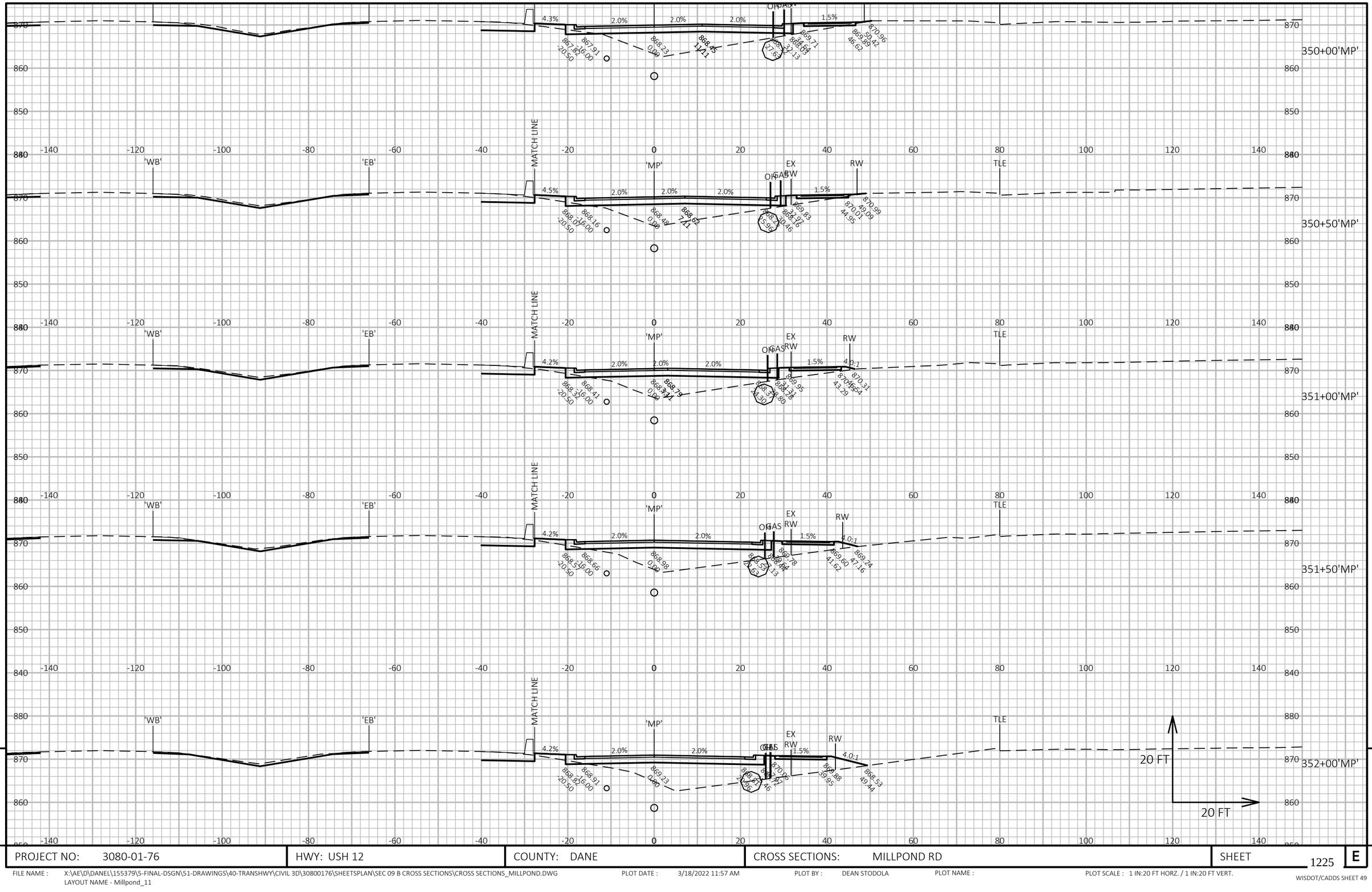
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1224	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_10

PLOT DATE : 3/18/2022 11:56 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1225 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_11
PLOT DATE : 3/18/2022 11:57 AM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49

9

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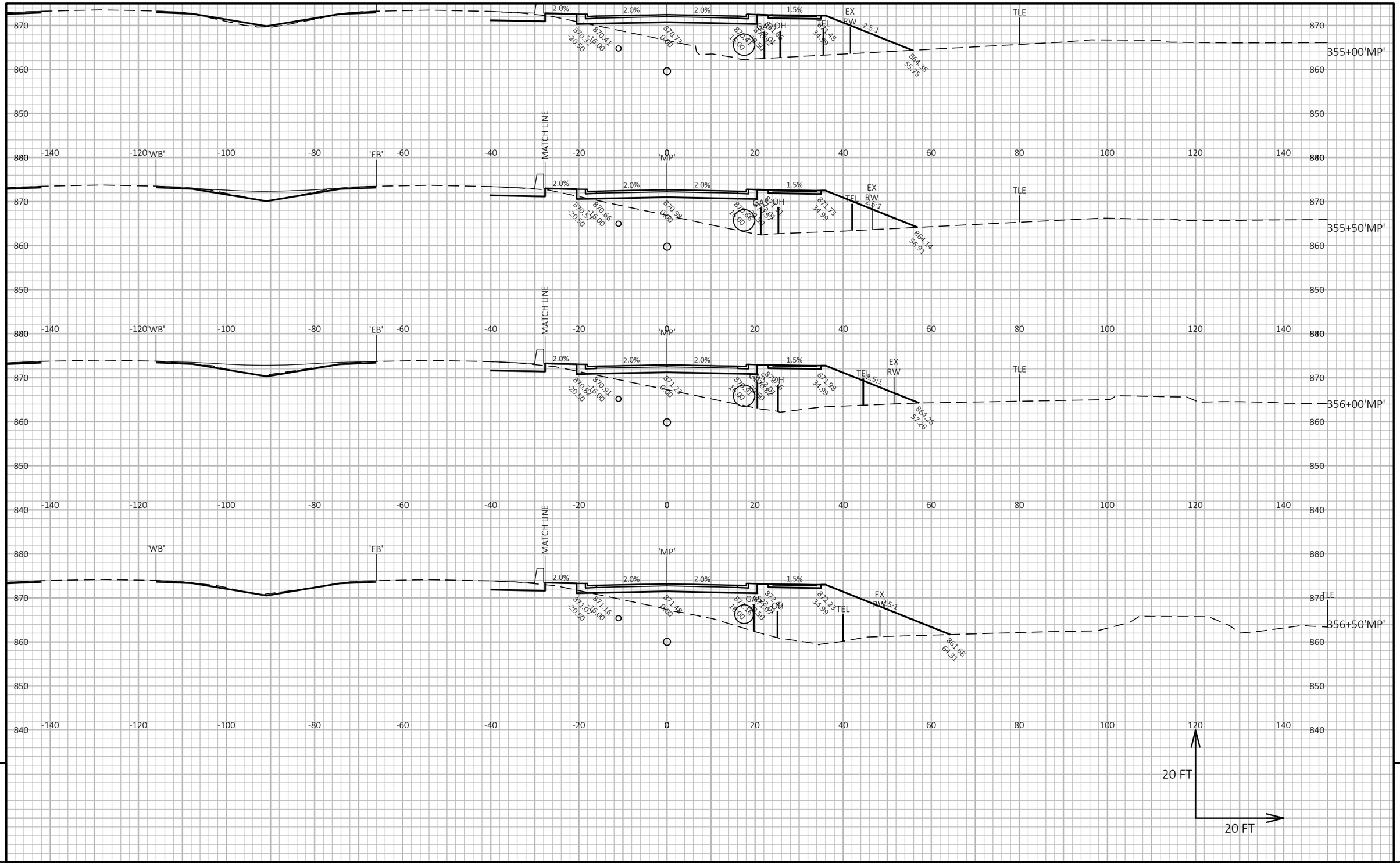
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1226	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_12

PLOT DATE : 3/18/2022 11:58 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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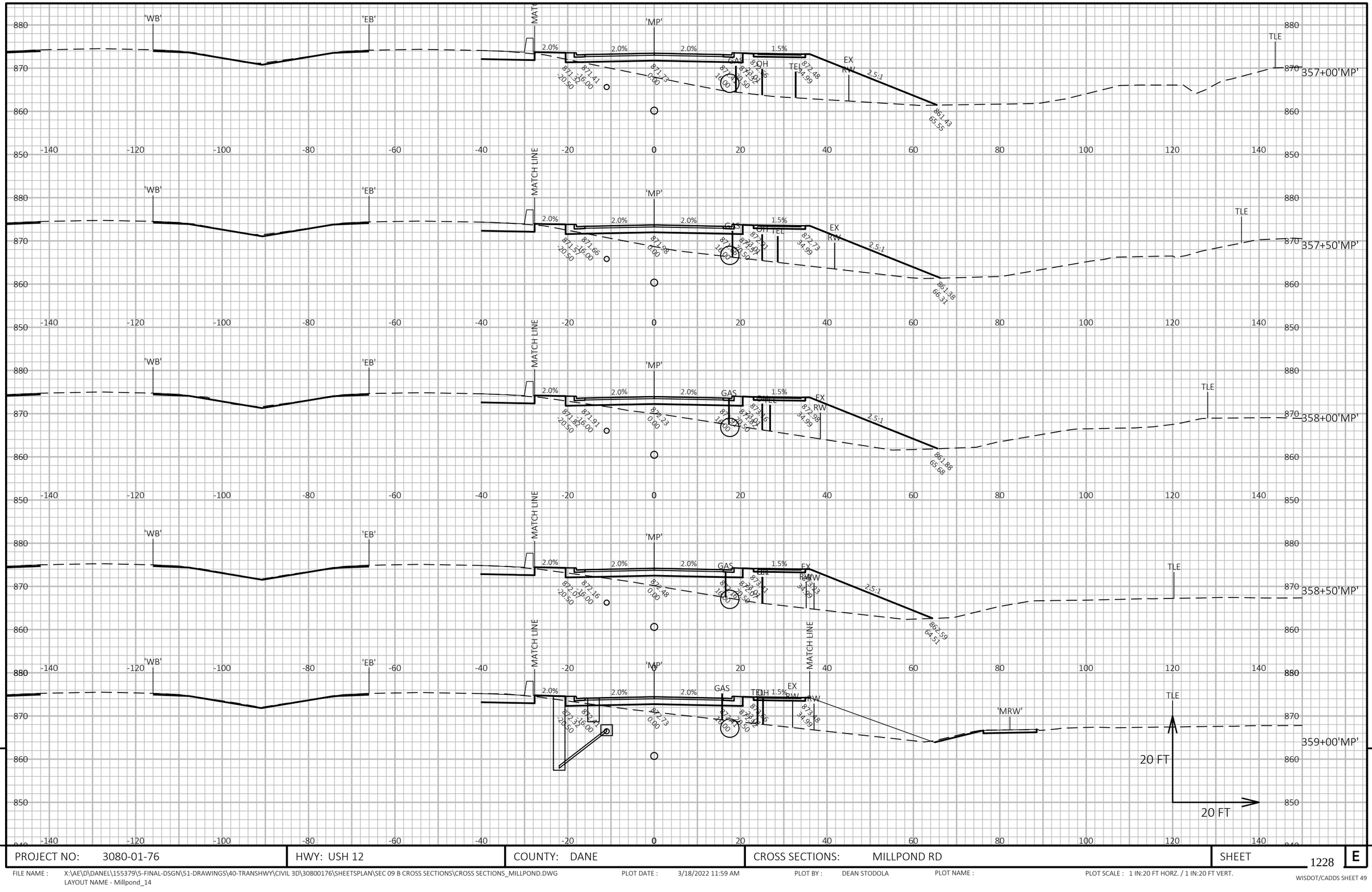
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1227	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_13

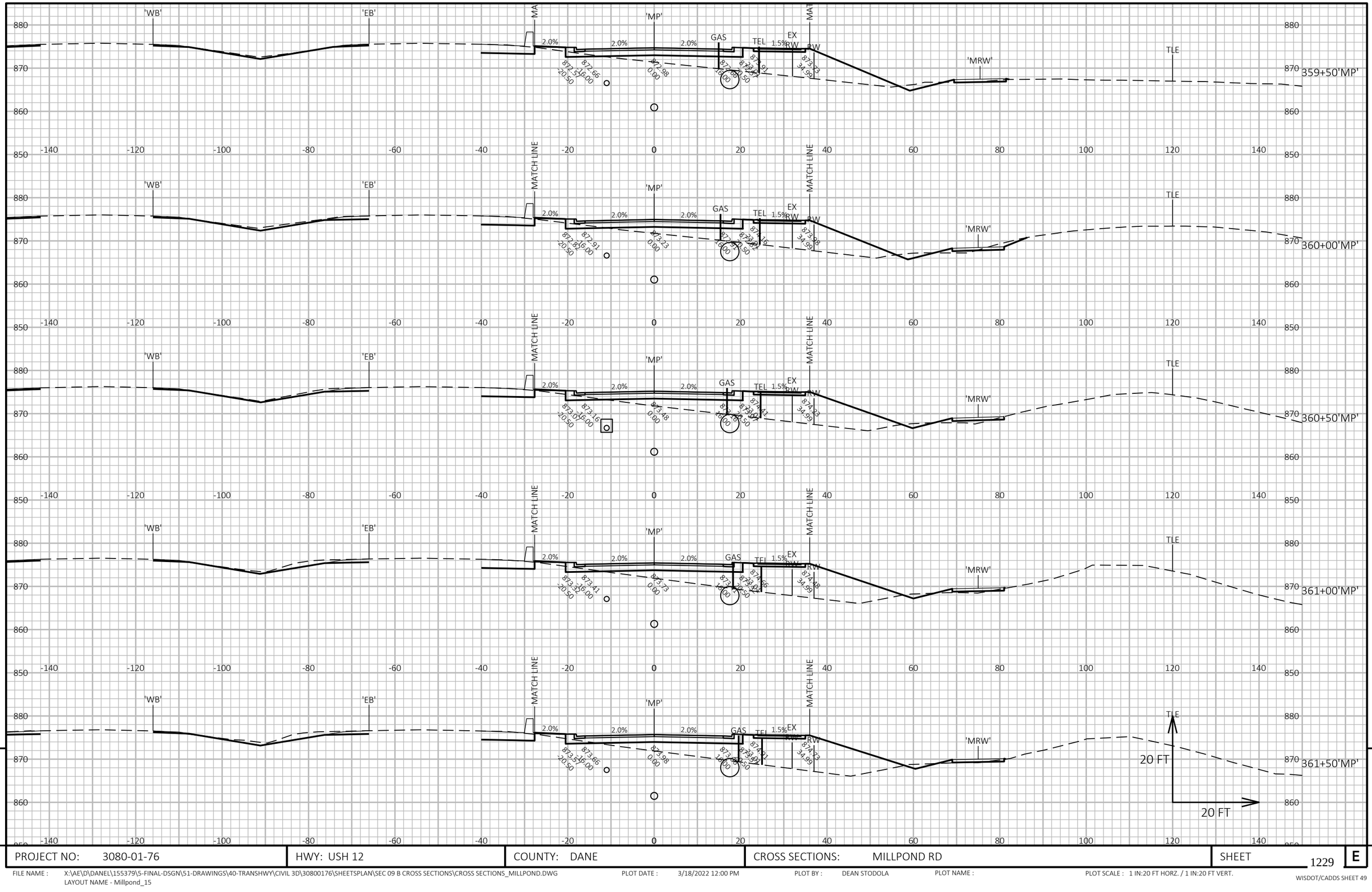
PLOT DATE : 3/18/2022 11:58 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1228 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_14
PLOT DATE : 3/18/2022 11:59 AM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

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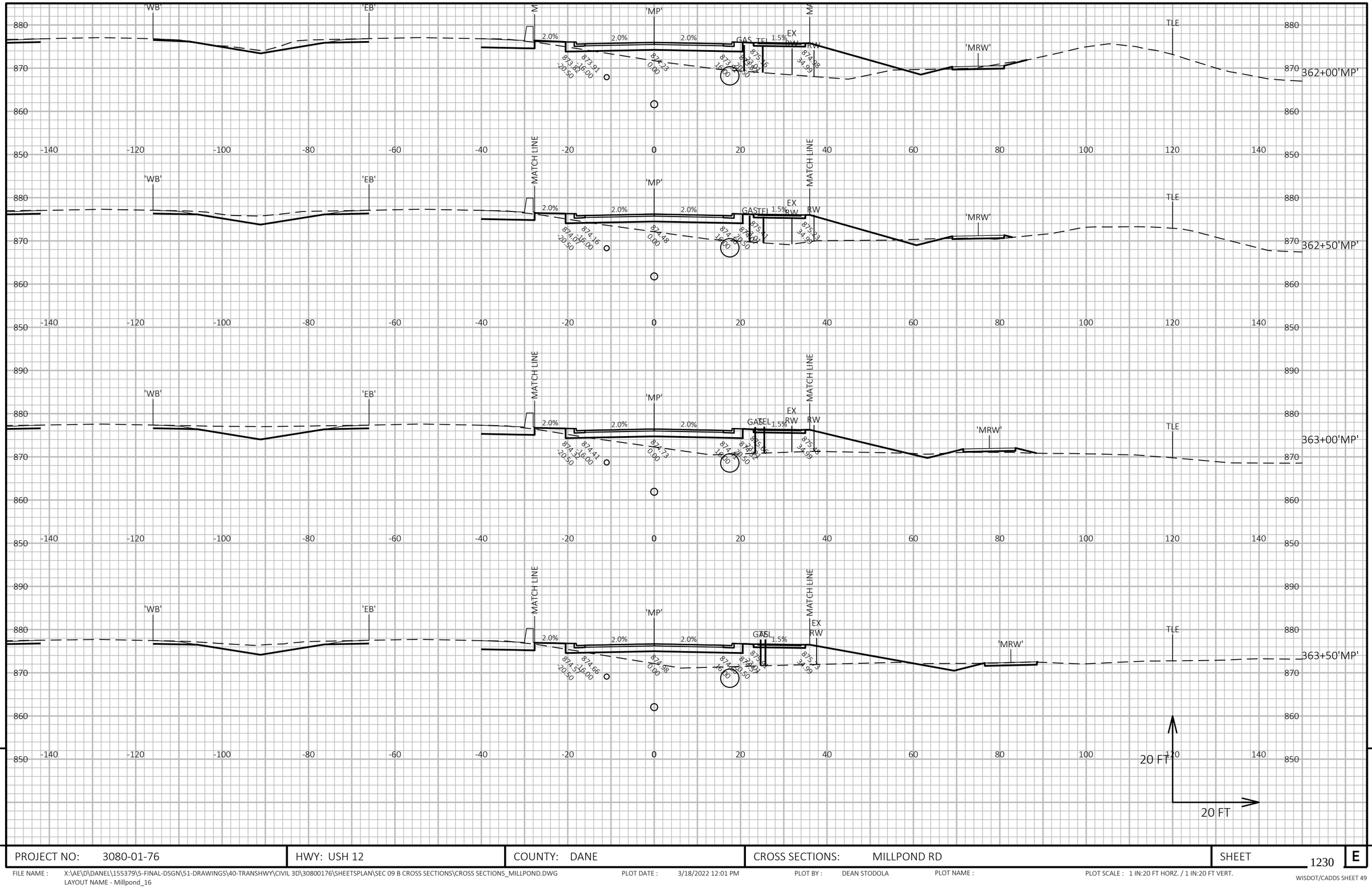
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1229	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_15

PLOT DATE : 3/18/2022 12:00 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1230	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_16

PLOT DATE : 3/18/2022 12:01 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

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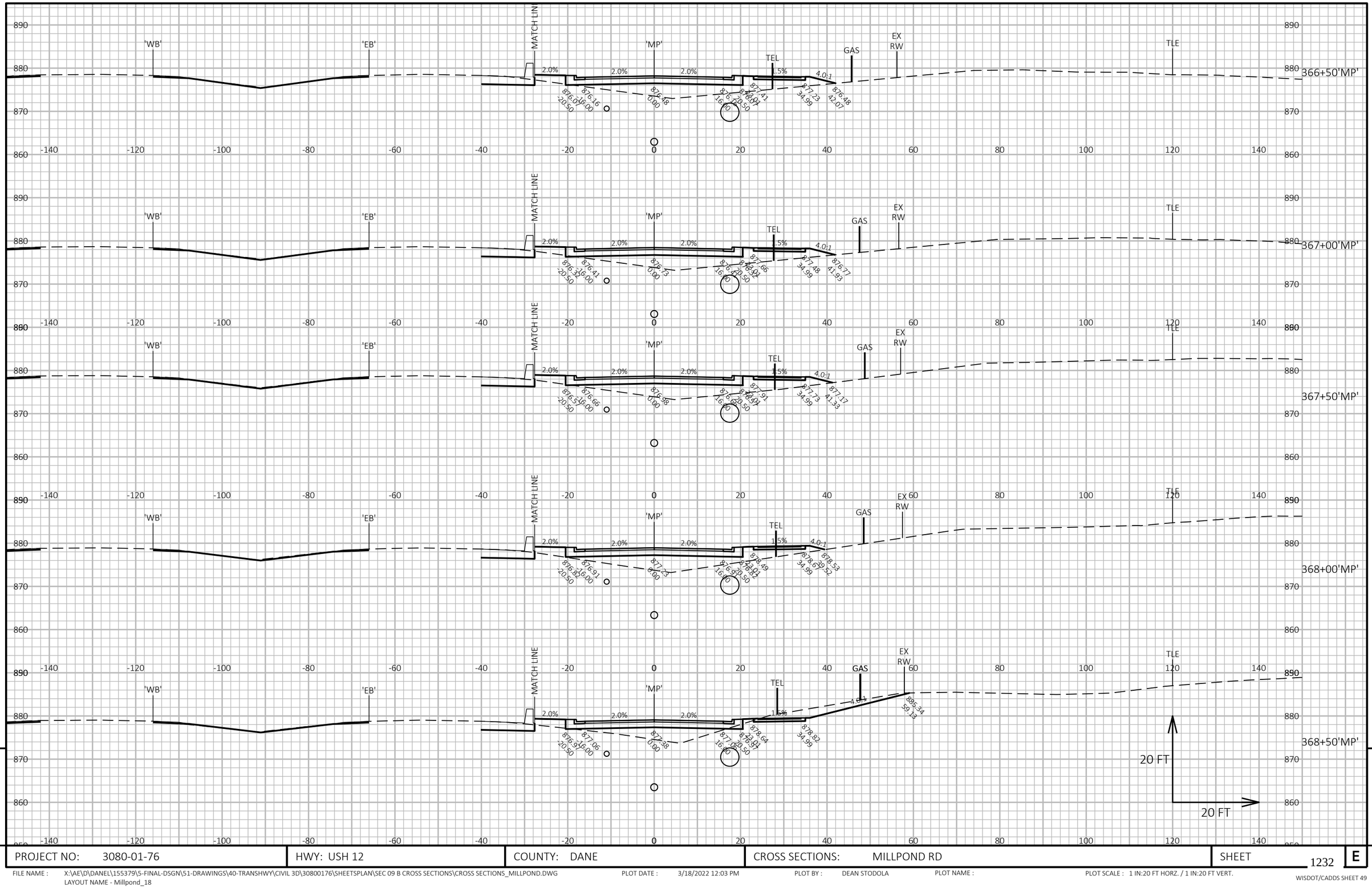
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1231	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_17

PLOT DATE : 3/18/2022 12:02 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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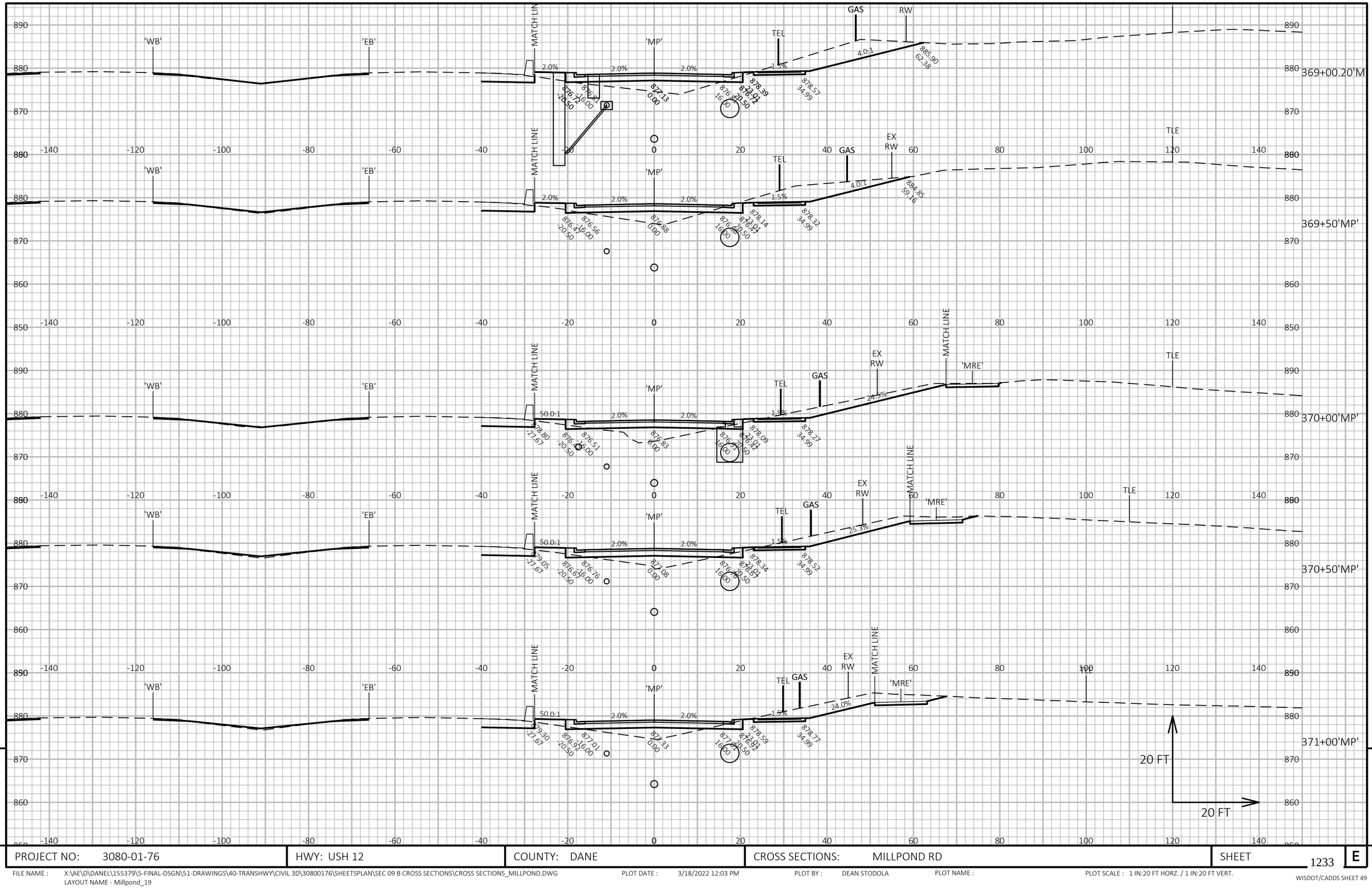
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1232	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_18
PLOT DATE : 3/18/2022 12:03 PM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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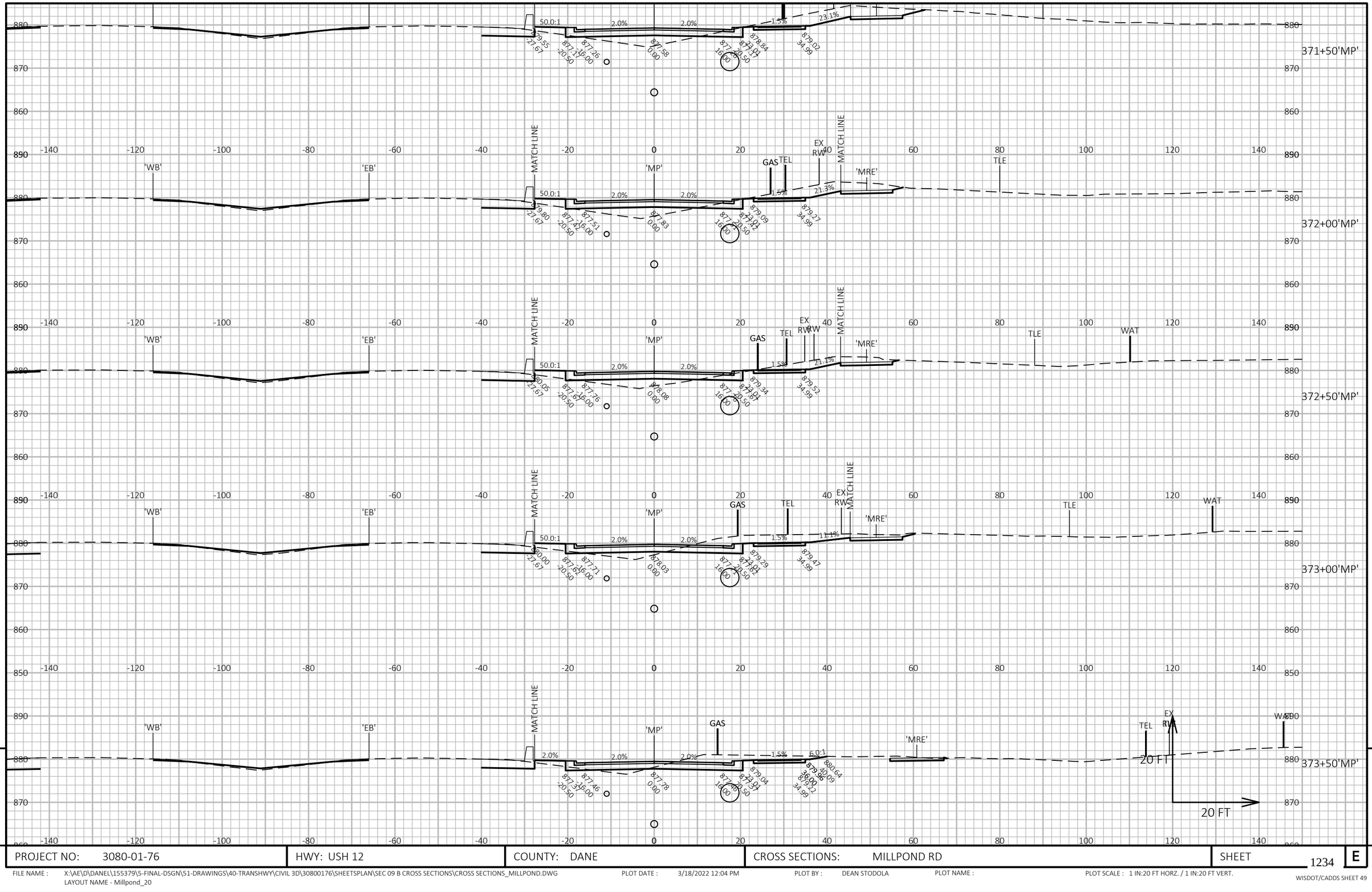
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1233	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_19

PLOT DATE : 3/18/2022 12:03 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

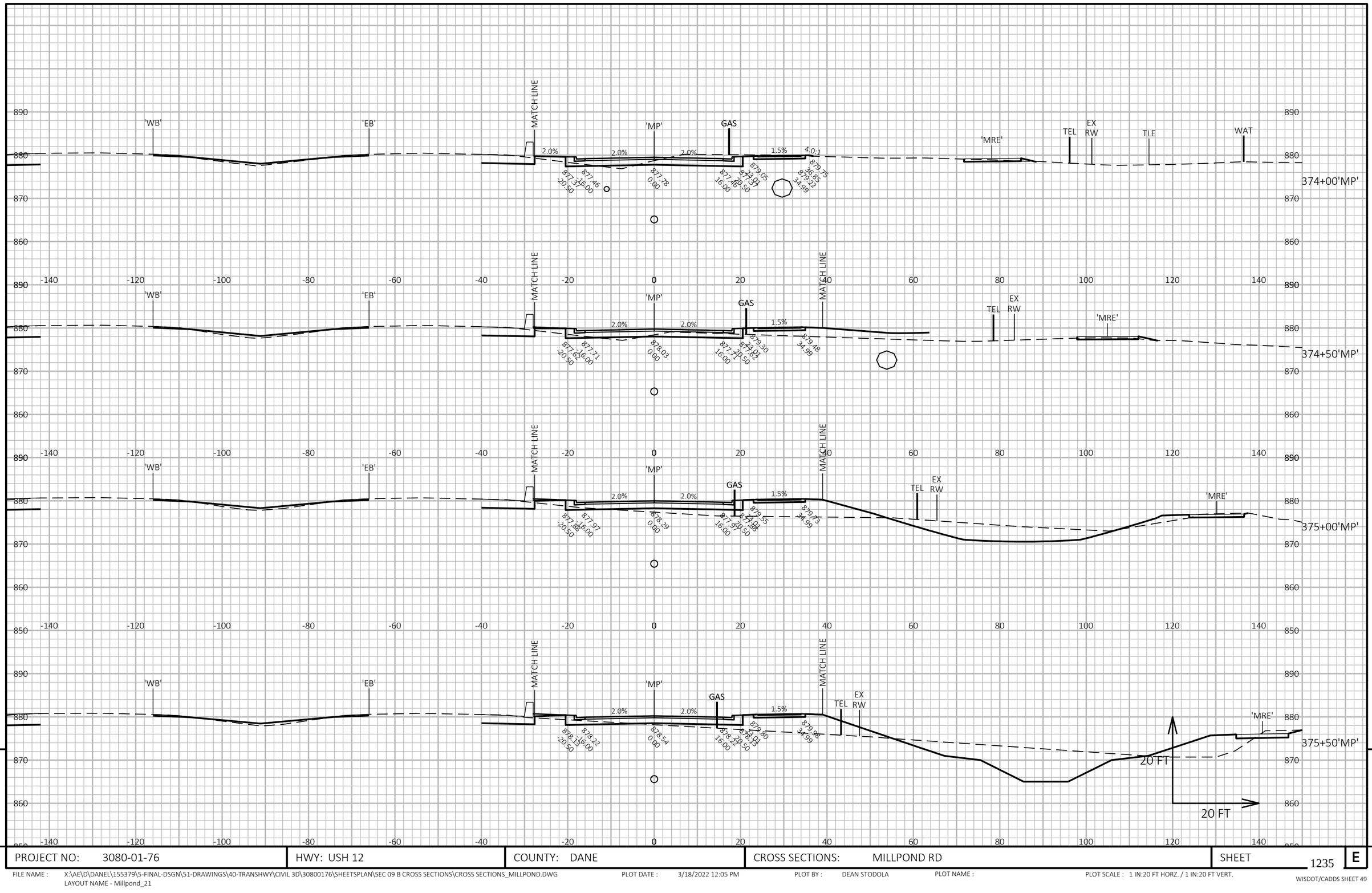
WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1234 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_20
PLOT DATE : 3/18/2022 12:04 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

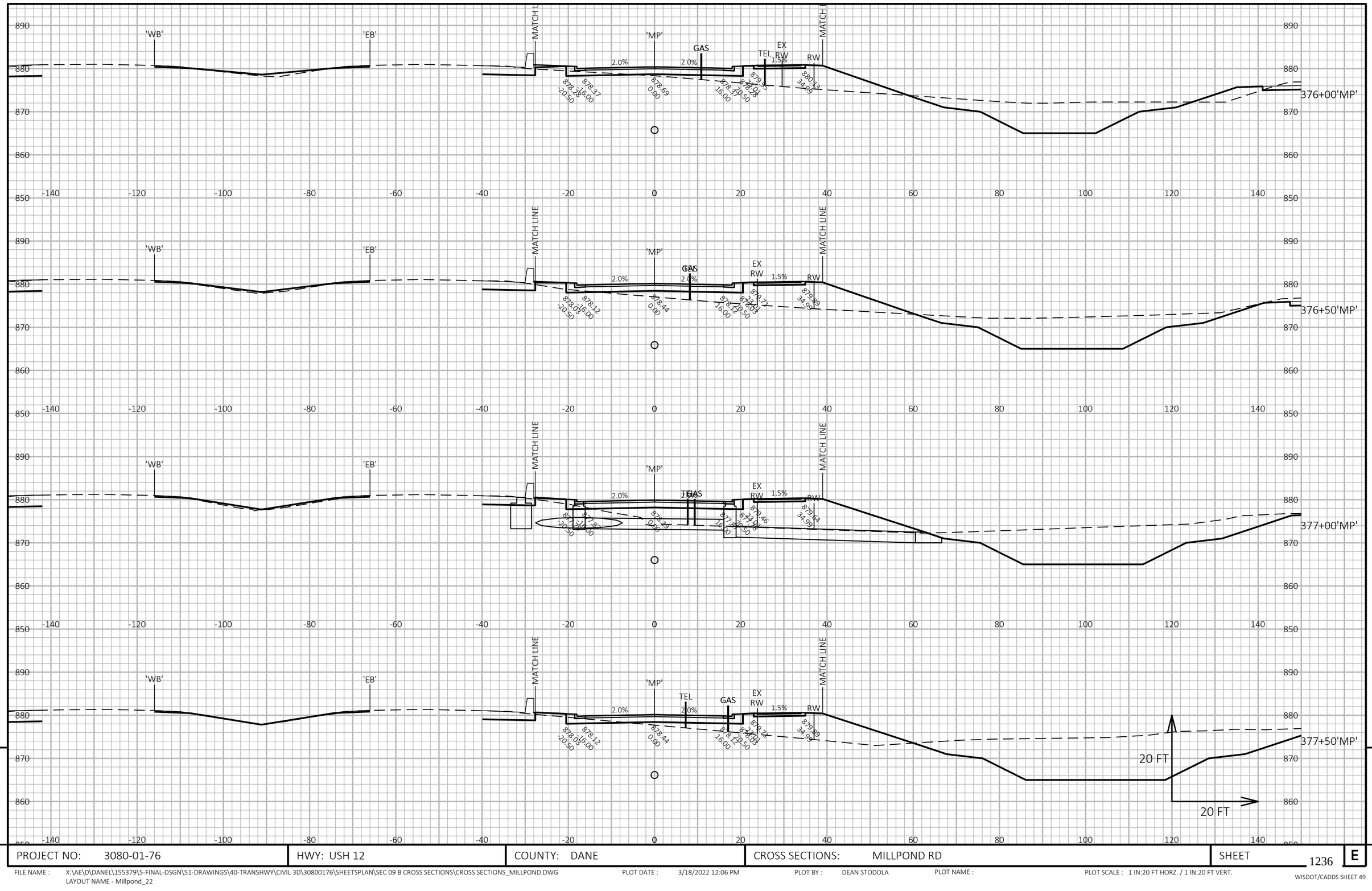


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1235	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_21

PLOT DATE : 3/18/2022 12:05 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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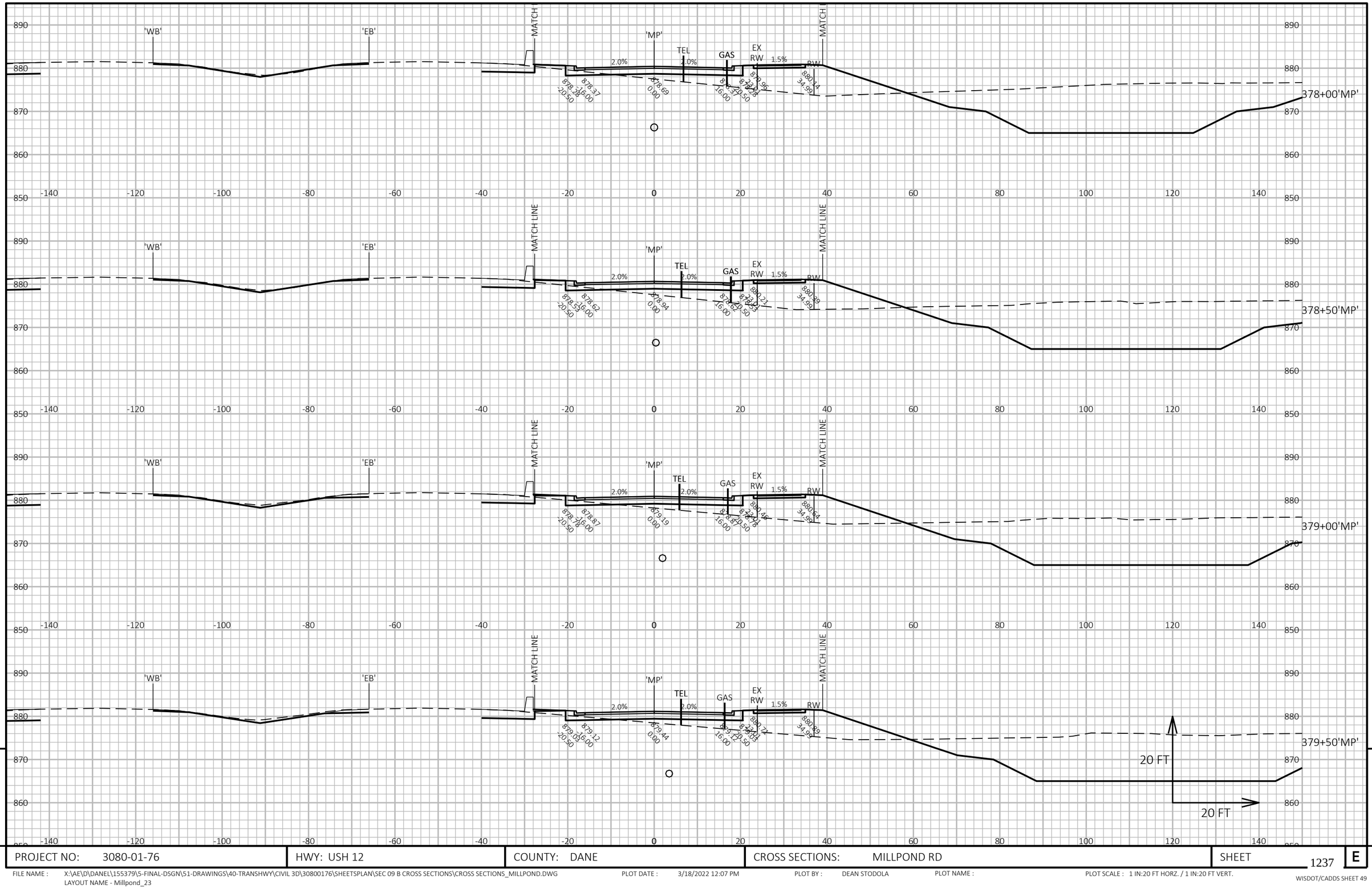
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1236	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_22

PLOT DATE : 3/18/2022 12:06 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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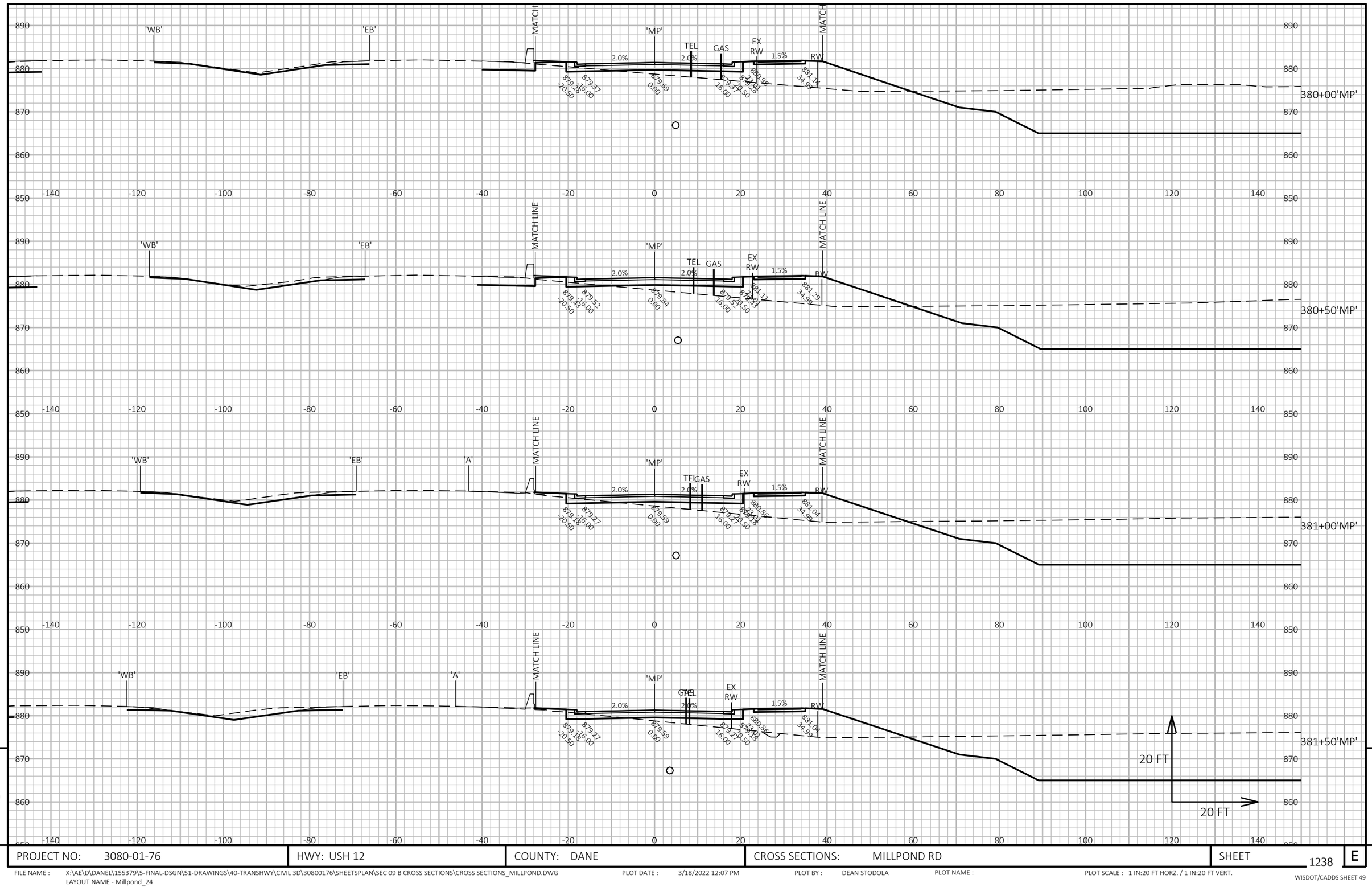
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1237	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_23
PLOT DATE : 3/18/2022 12:07 PM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



9

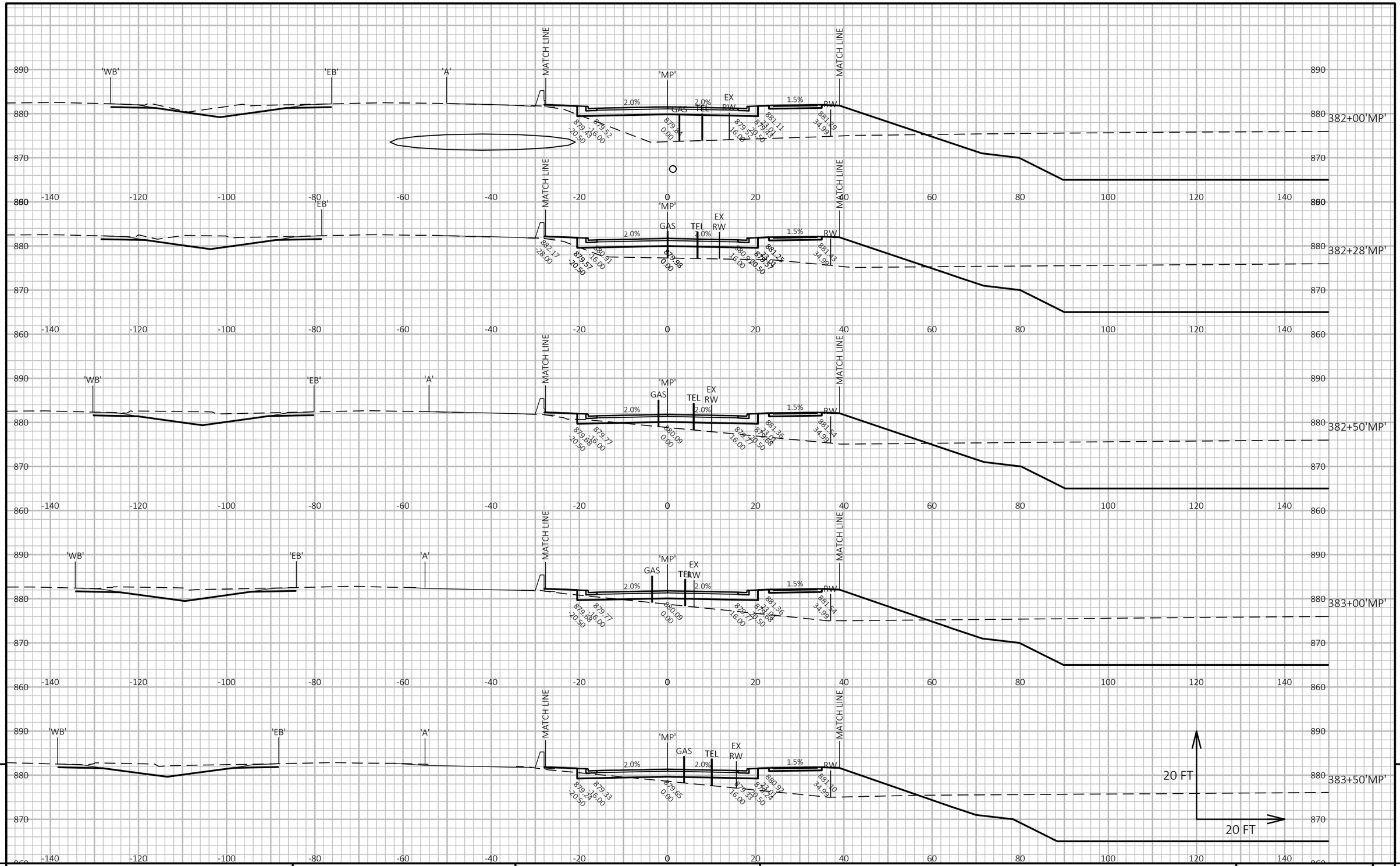
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1238	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_24

PLOT DATE : 3/18/2022 12:07 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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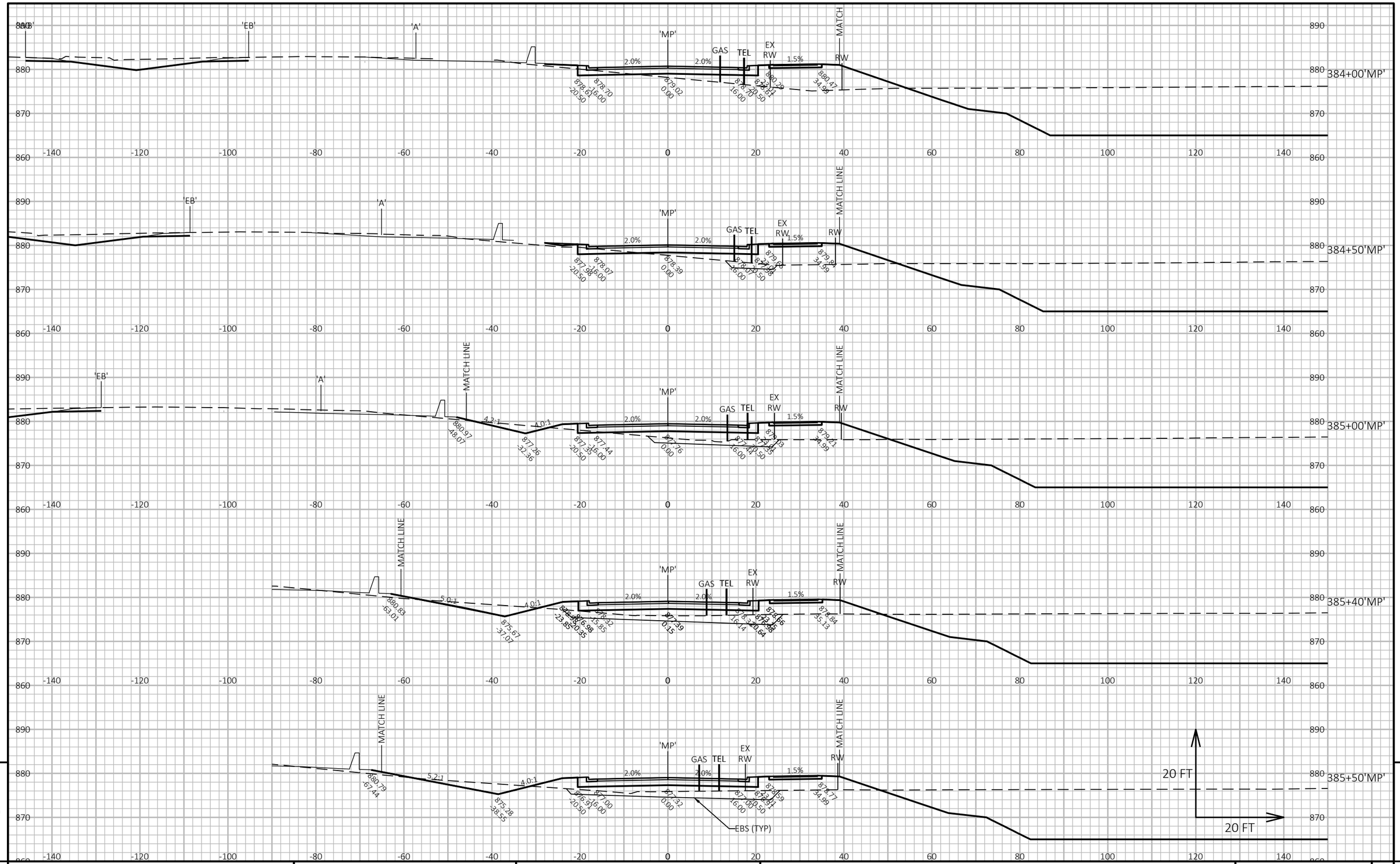
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1239	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_25

PLOT DATE : 3/18/2022 12:08 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

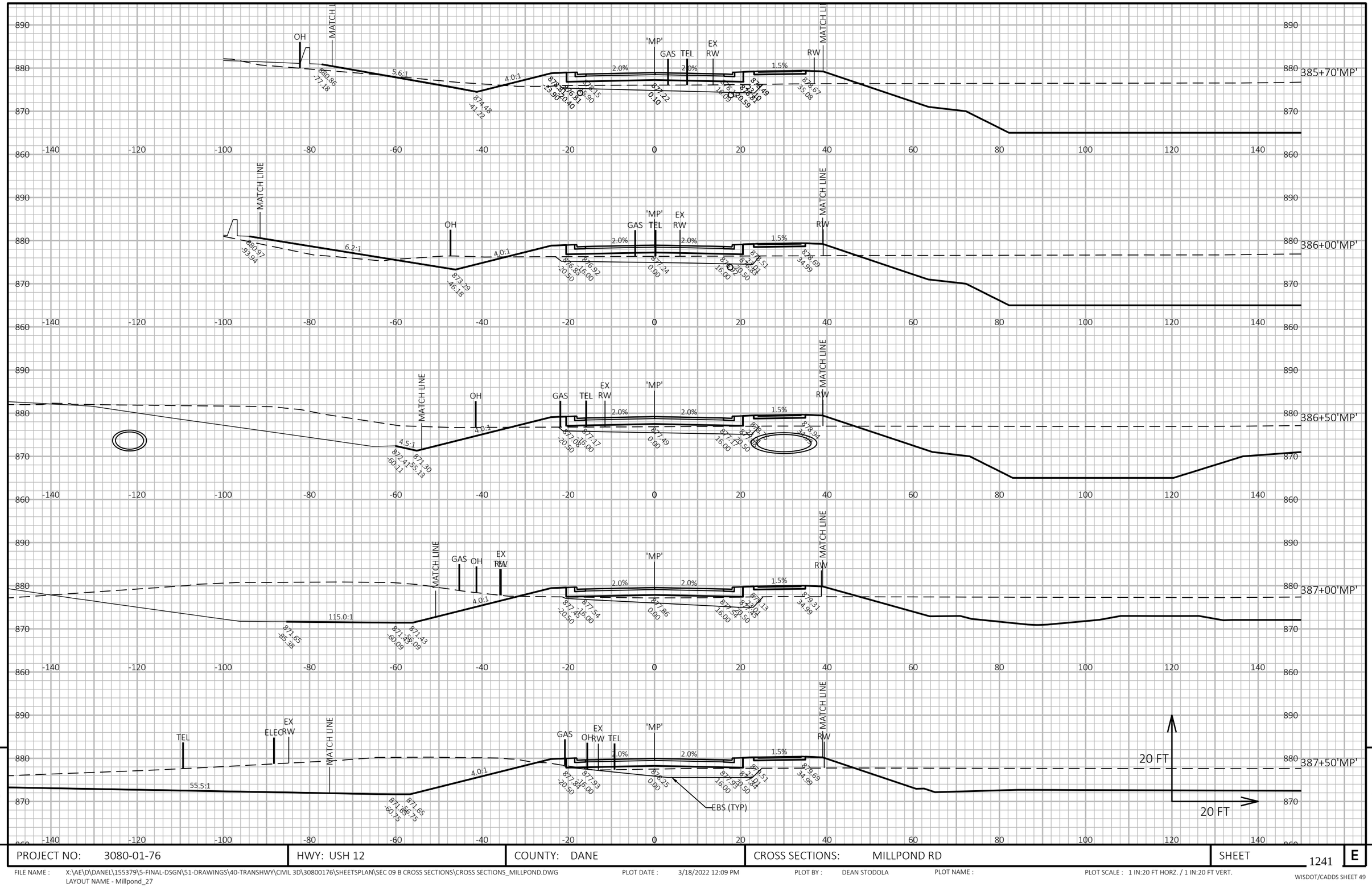
WISDOT/CADDS SHEET 49



9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1240	E

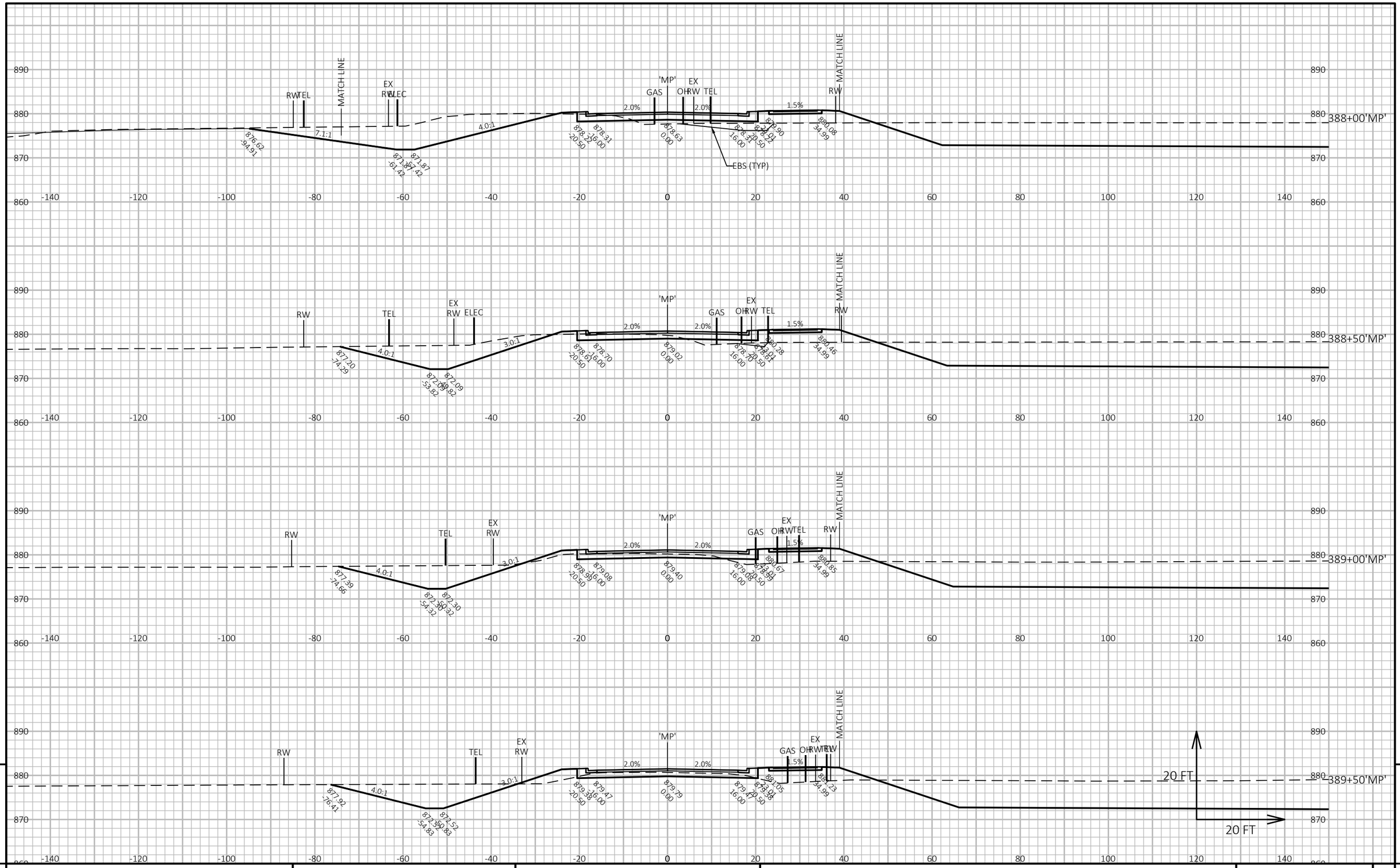
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_26
PLOT DATE : 3/18/2022 12:09 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1241 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_27
PLOT DATE : 3/18/2022 12:09 PM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

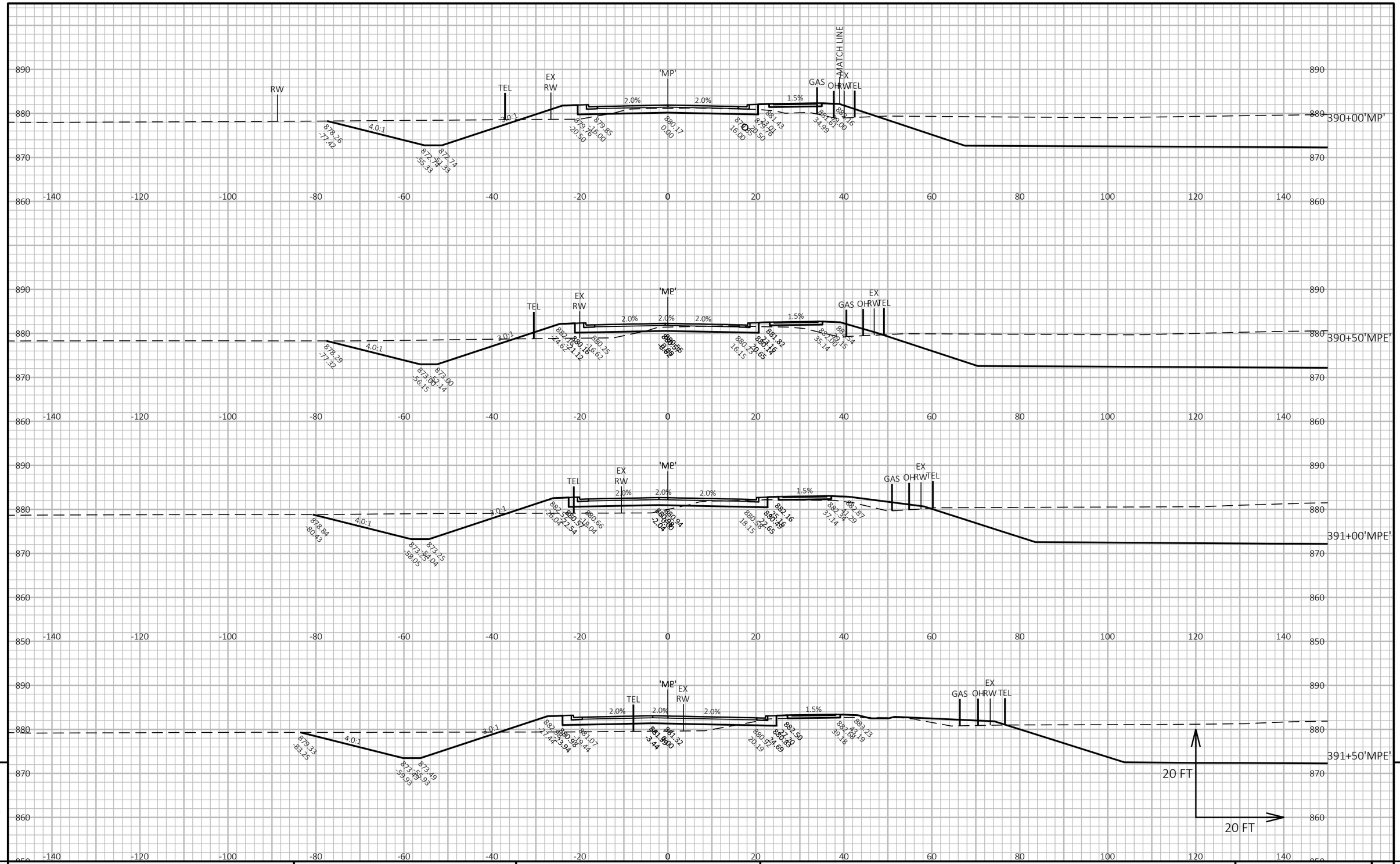


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1242	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_28

PLOT DATE : 3/18/2022 12:10 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



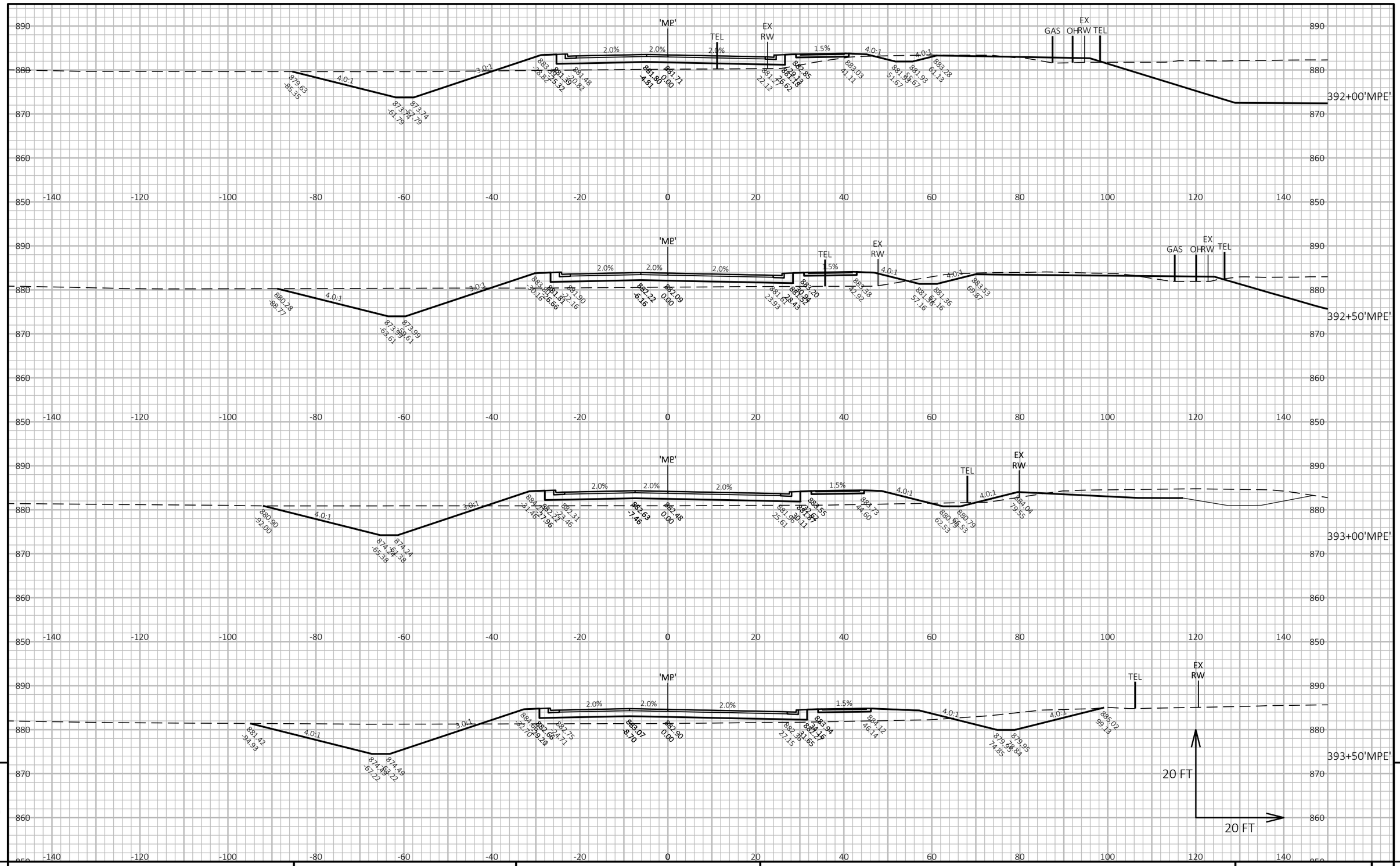
9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1243	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_29

PLOT DATE : 3/18/2022 12:11 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



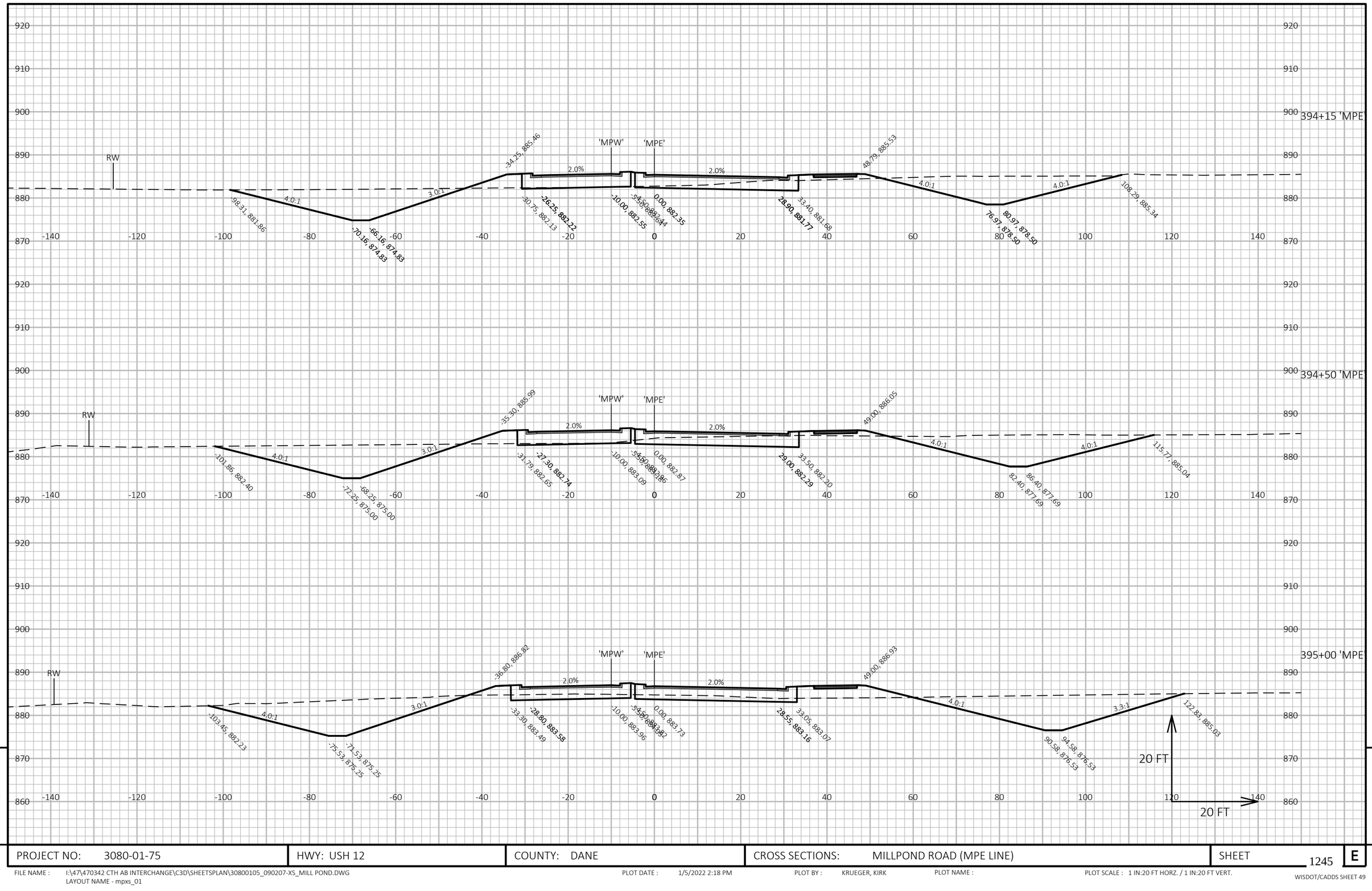
9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND RD	SHEET 1244	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond_30

PLOT DATE : 3/18/2022 12:12 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

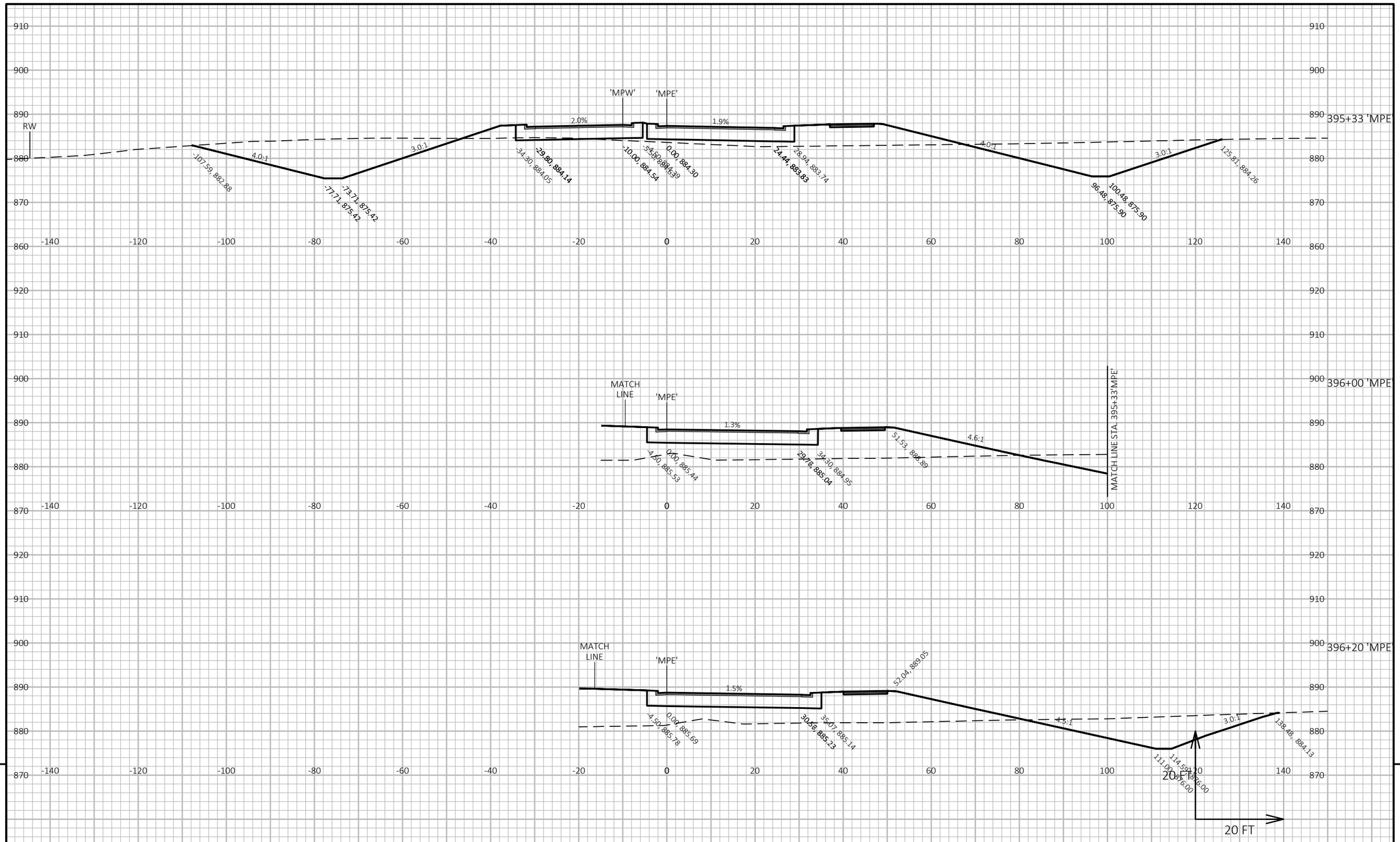


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND ROAD (MPE LINE)	SHEET 1245	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090207-XS_MILL POND.DWG
LAYOUT NAME - mpxs_01

PLOT DATE : 1/5/2022 2:18 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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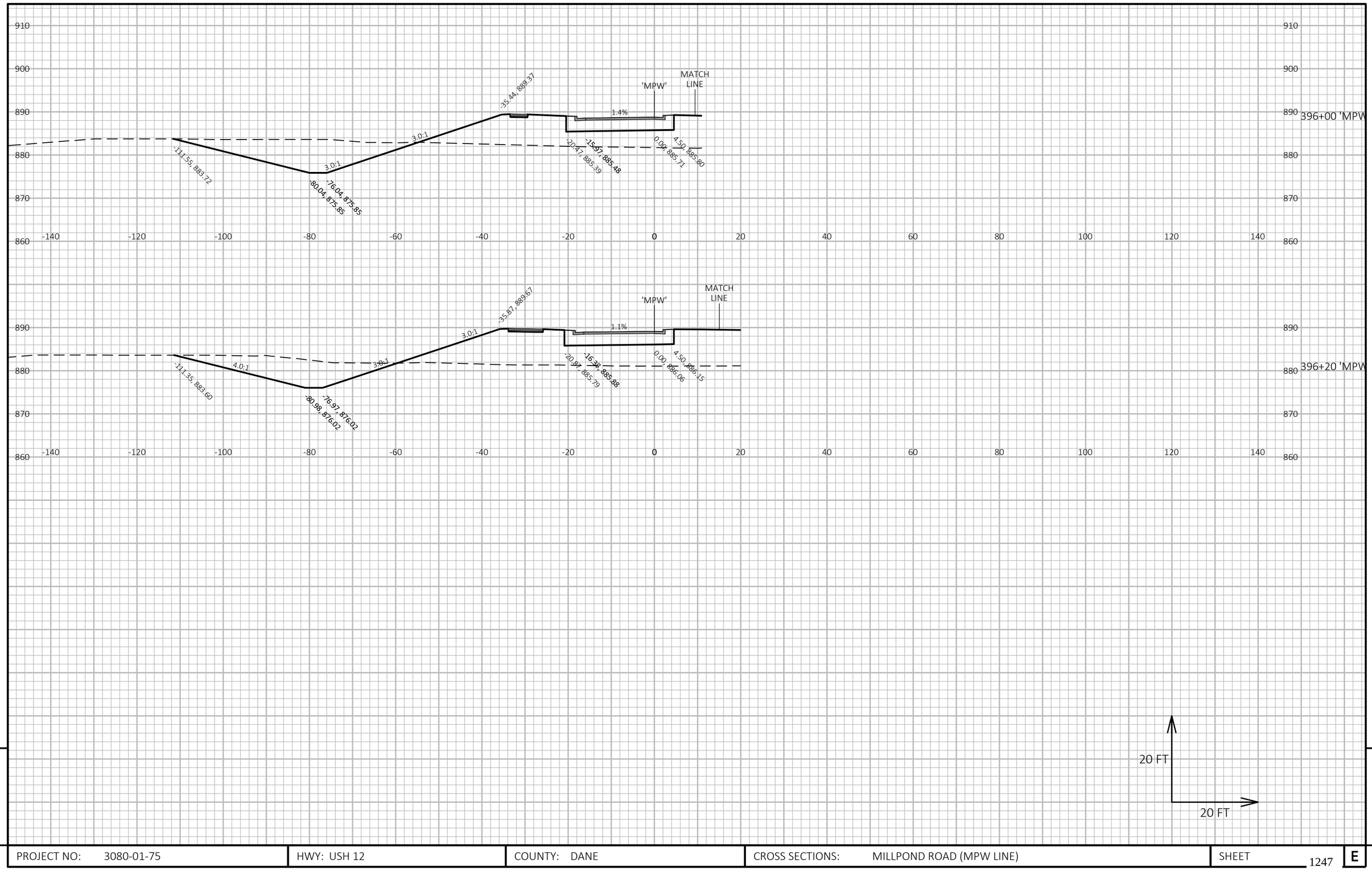
9

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND ROAD (MPE LINE)	SHEET 1246	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090207-XS_MILL POND.DWG
LAYOUT NAME - mpxs_02

PLOT DATE : 1/5/2022 2:18 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



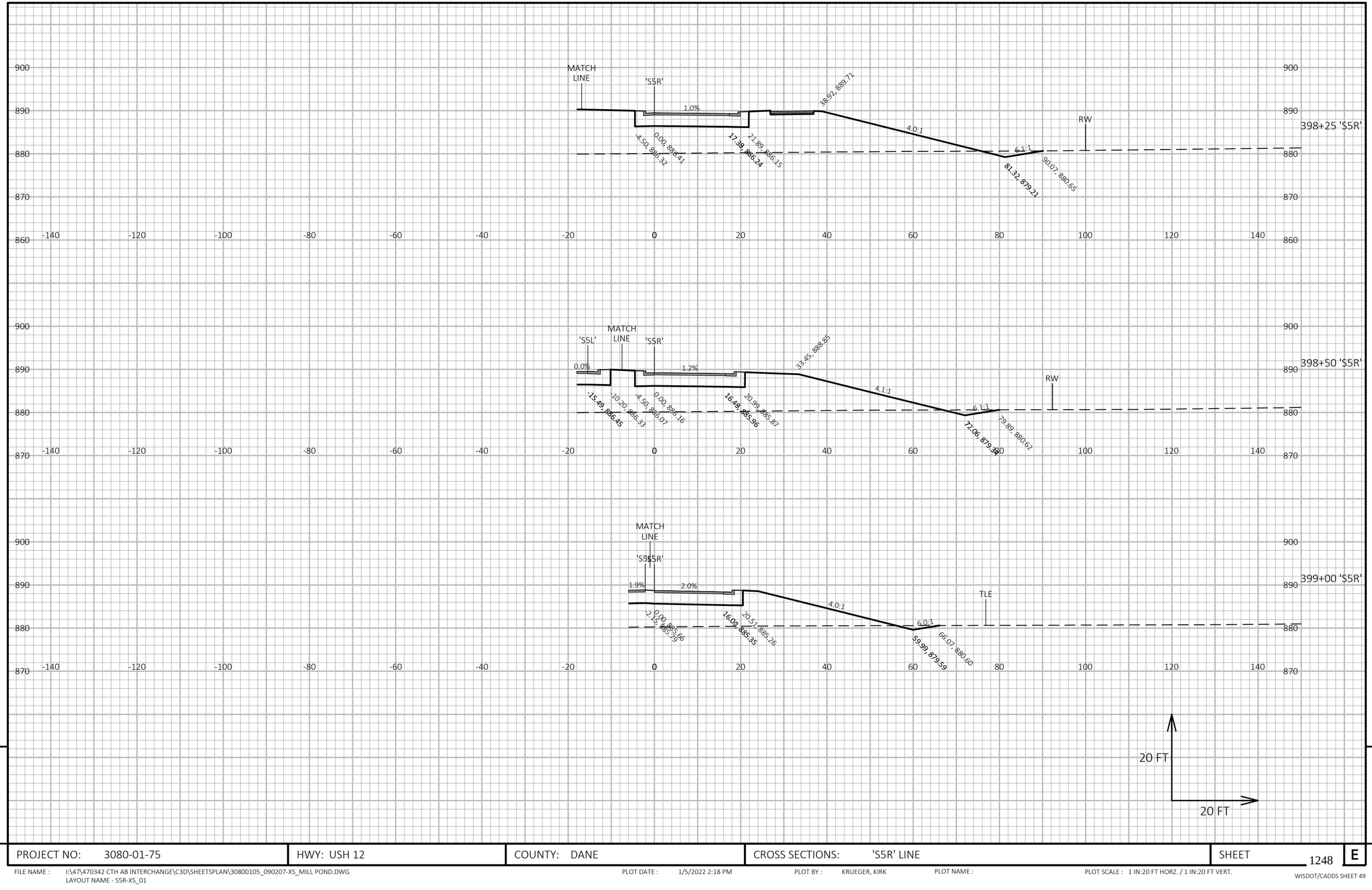
9

9

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND ROAD (MPW LINE)	SHEET 1247	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090207-XS_MILL POND.DWG
LAYOUT NAME - WMPXS_01

PLOT DATE : 1/5/2022 2:18 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



9

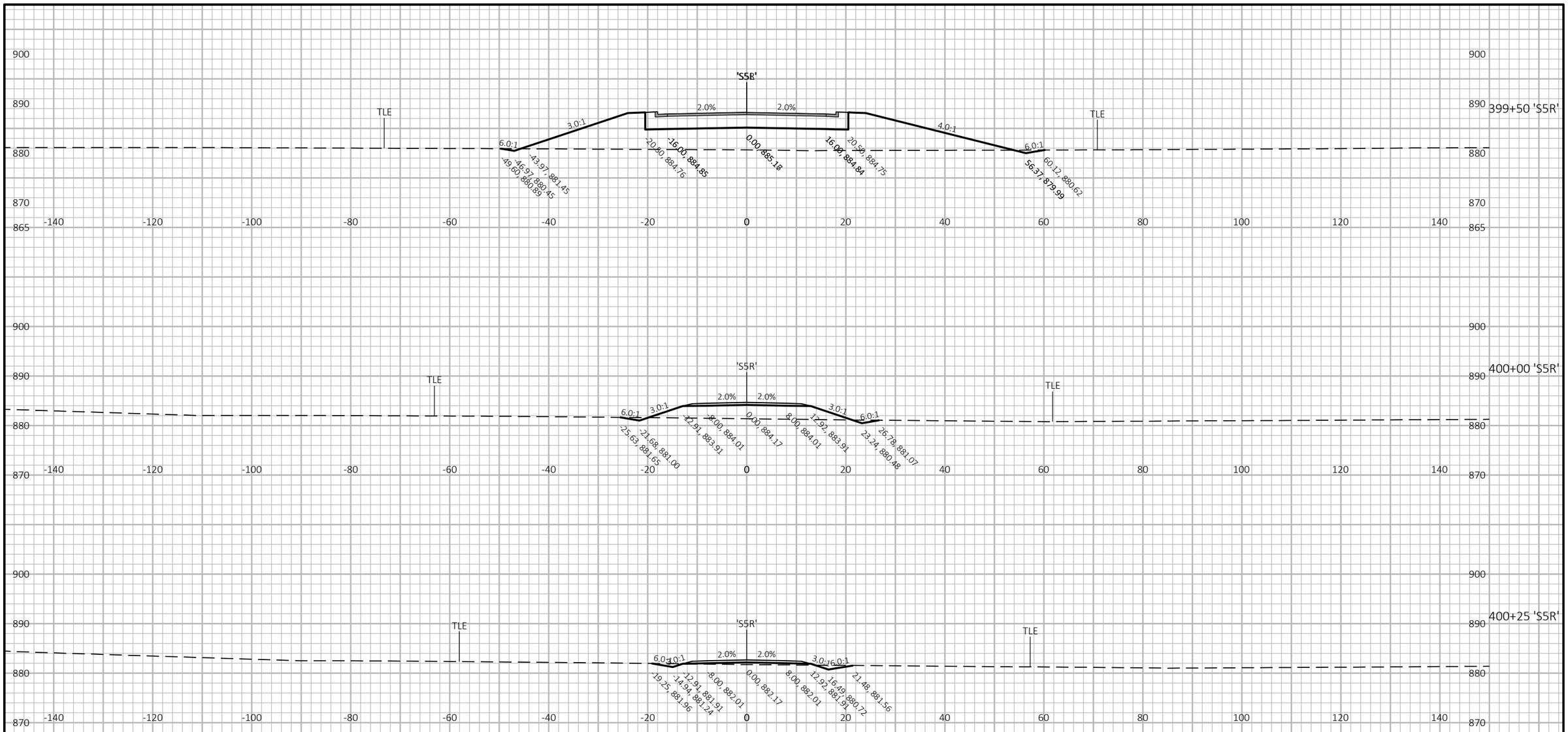
9

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'S5R' LINE	SHEET 1248	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090207-XS_MILL POND.DWG
LAYOUT NAME - S5R-XS_01

PLOT DATE : 1/5/2022 2:18 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

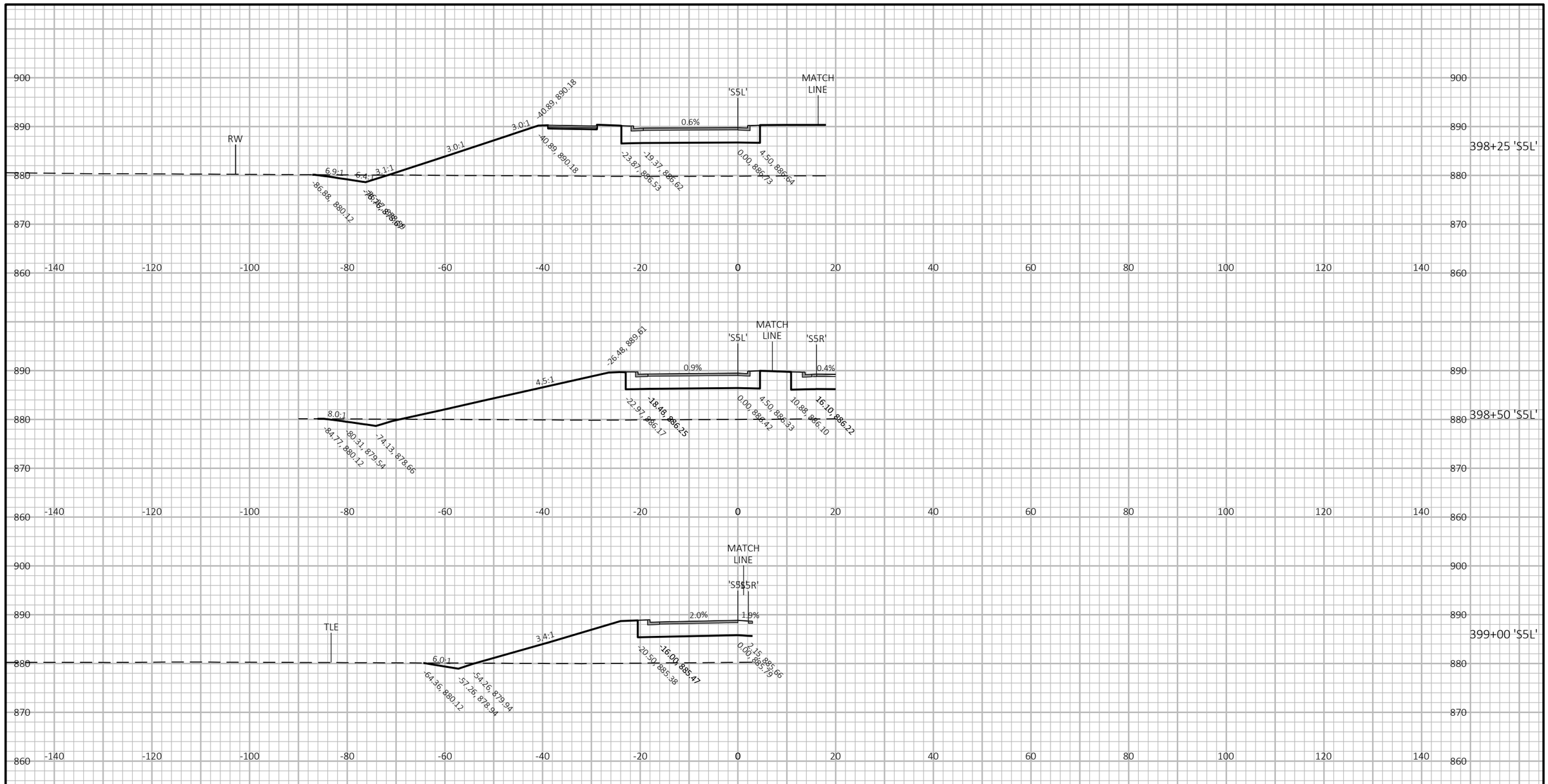


PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'S5R' LINE	SHEET 1249	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090207-XS_MILL POND.DWG
LAYOUT NAME - S5R-XS_02

PLOT DATE : 1/5/2022 2:18 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



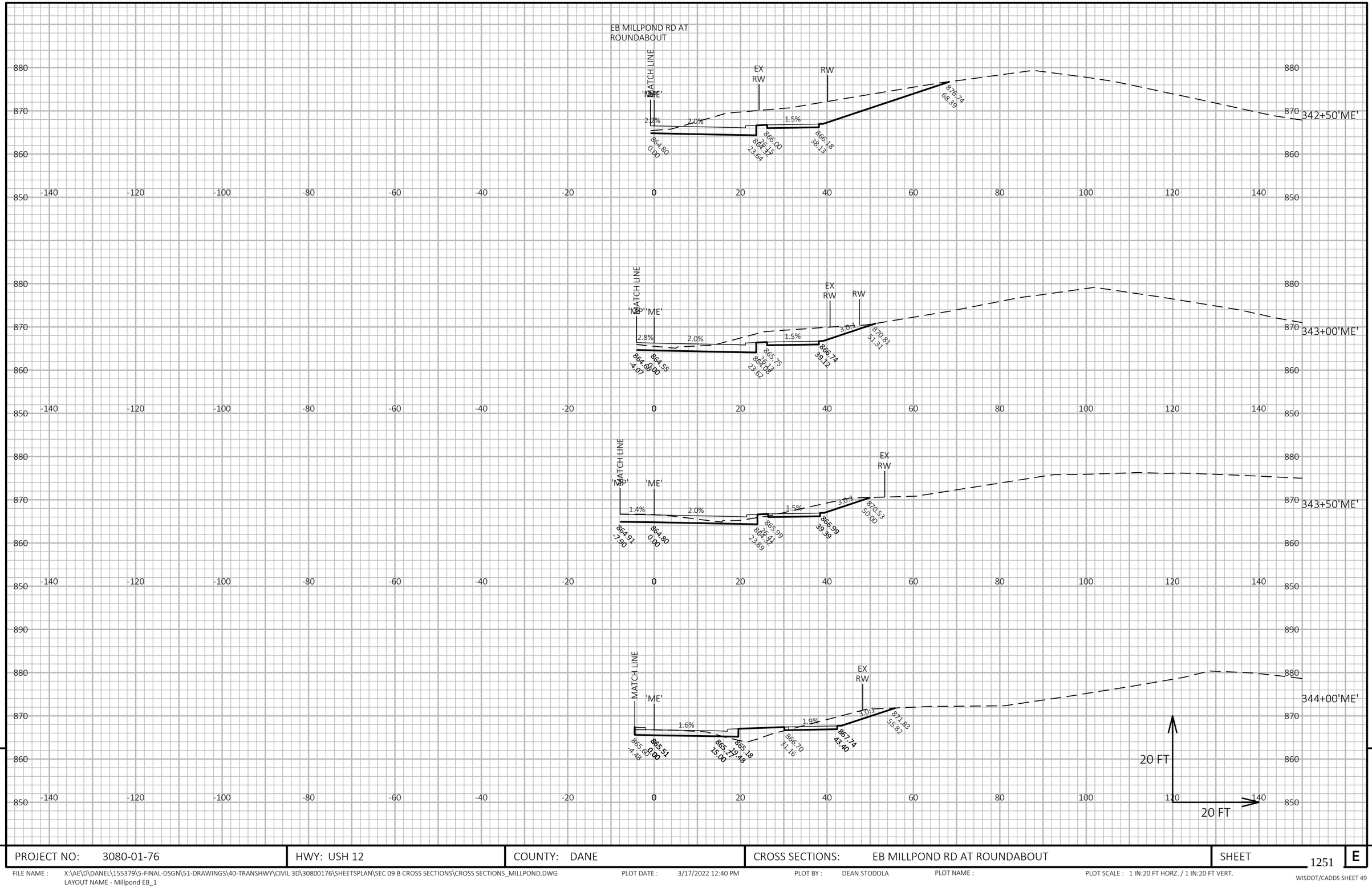
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: 'S5L' LINE	SHEET 1250 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090207-XS_MILL POND.DWG
LAYOUT NAME - S5L-XS_01

PLOT DATE : 1/5/2022 2:18 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

EB MILLPOND RD AT ROUNDABOUT

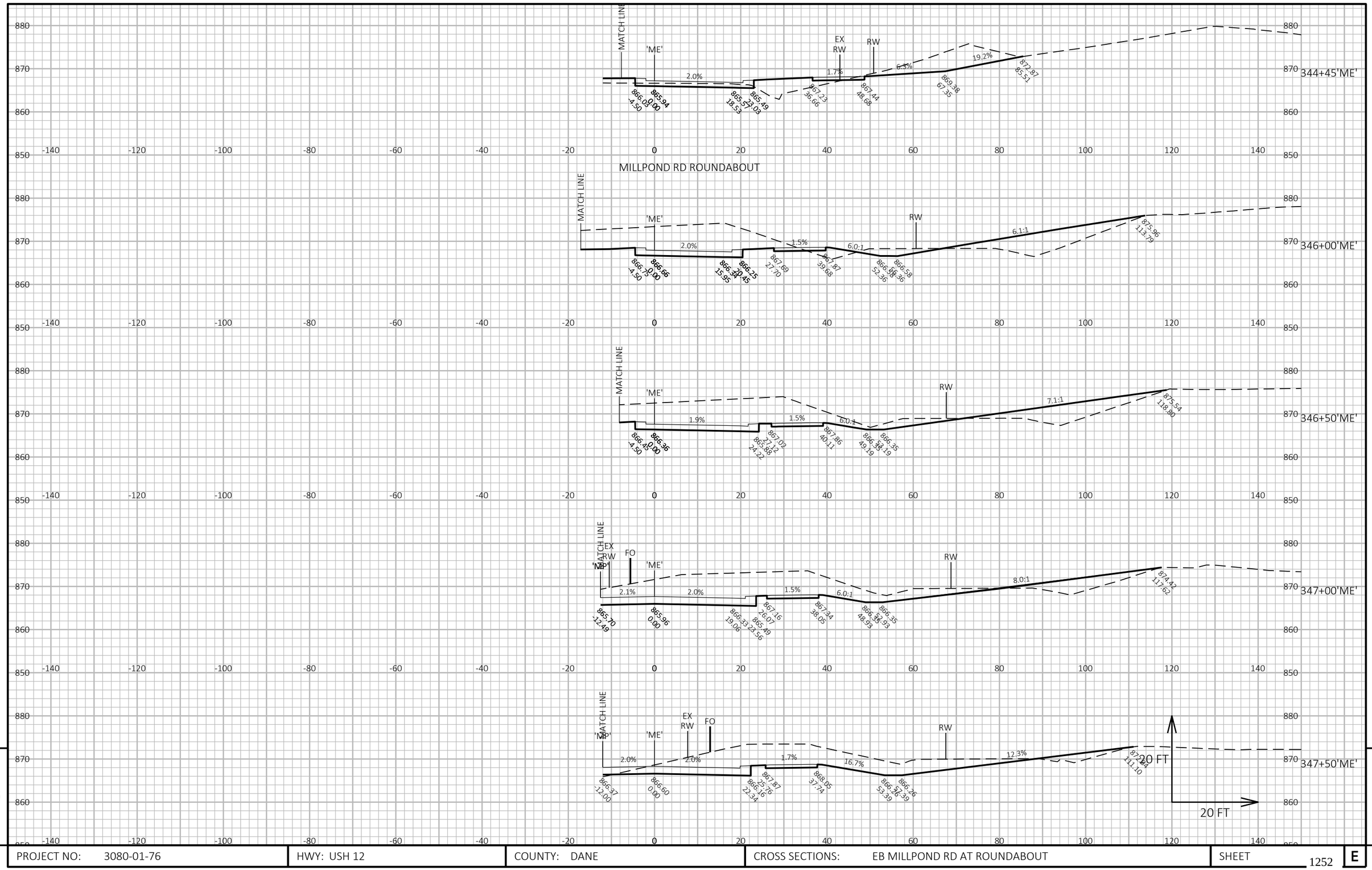


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: EB MILLPOND RD AT ROUNDABOUT	SHEET 1251	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond EB_1

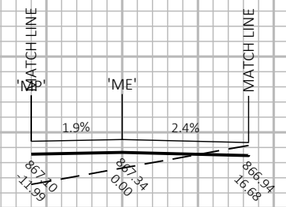
PLOT DATE : 3/17/2022 12:40 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

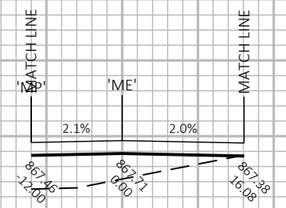
WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: EB MILLPOND RD AT ROUNDABOUT	SHEET 1252	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond EB_2
PLOT DATE : 3/17/2022 12:45 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49





348+00'ME'

348+50'ME'

870
860
850
-140
-120
-100
-80
-60
-40
-20
0
20
40
60
80
100
120
140

20 FT
20 FT

9

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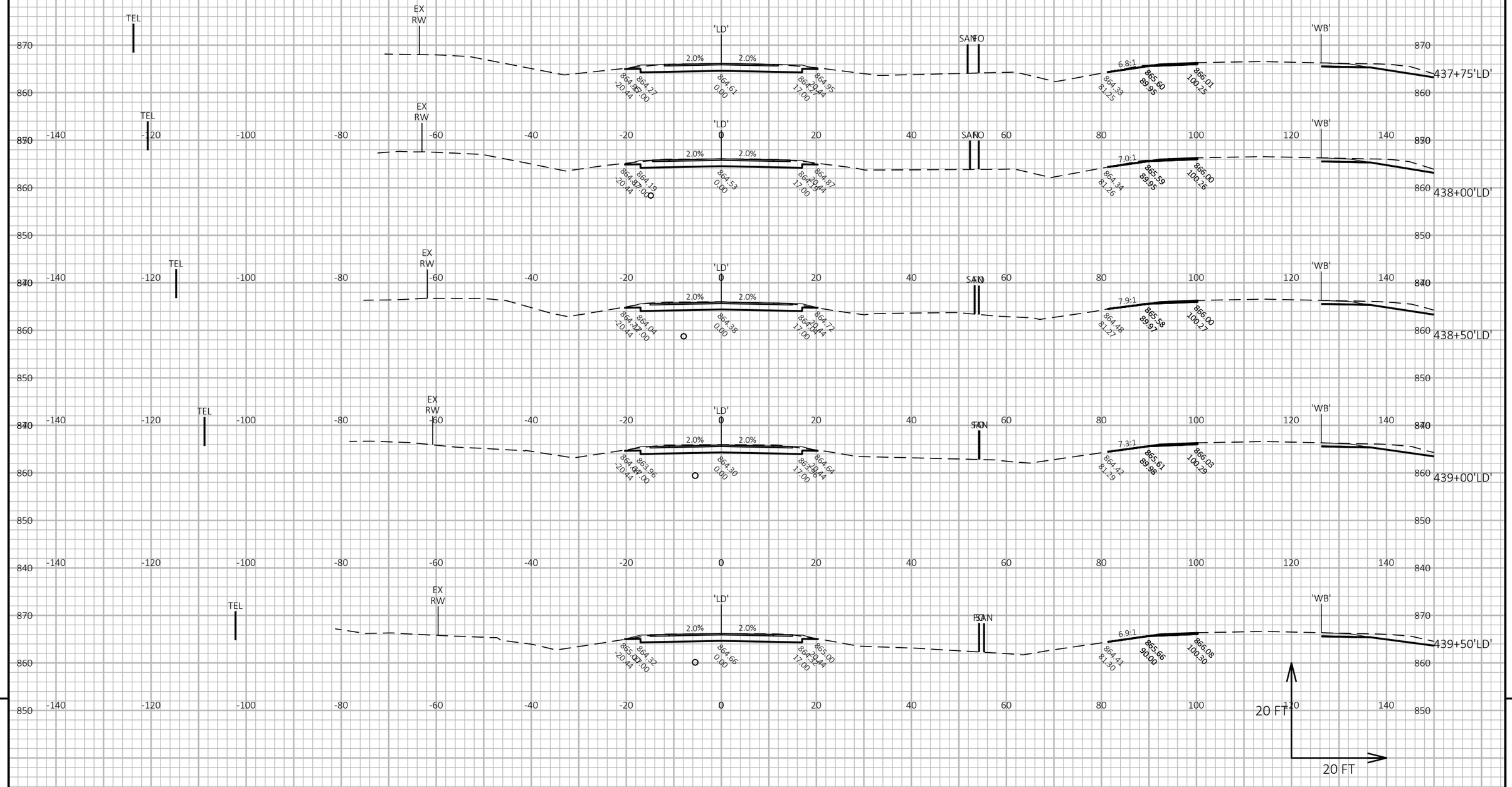
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: EB MILLPOND RD AT ROUNDABOUT	SHEET 1253	E

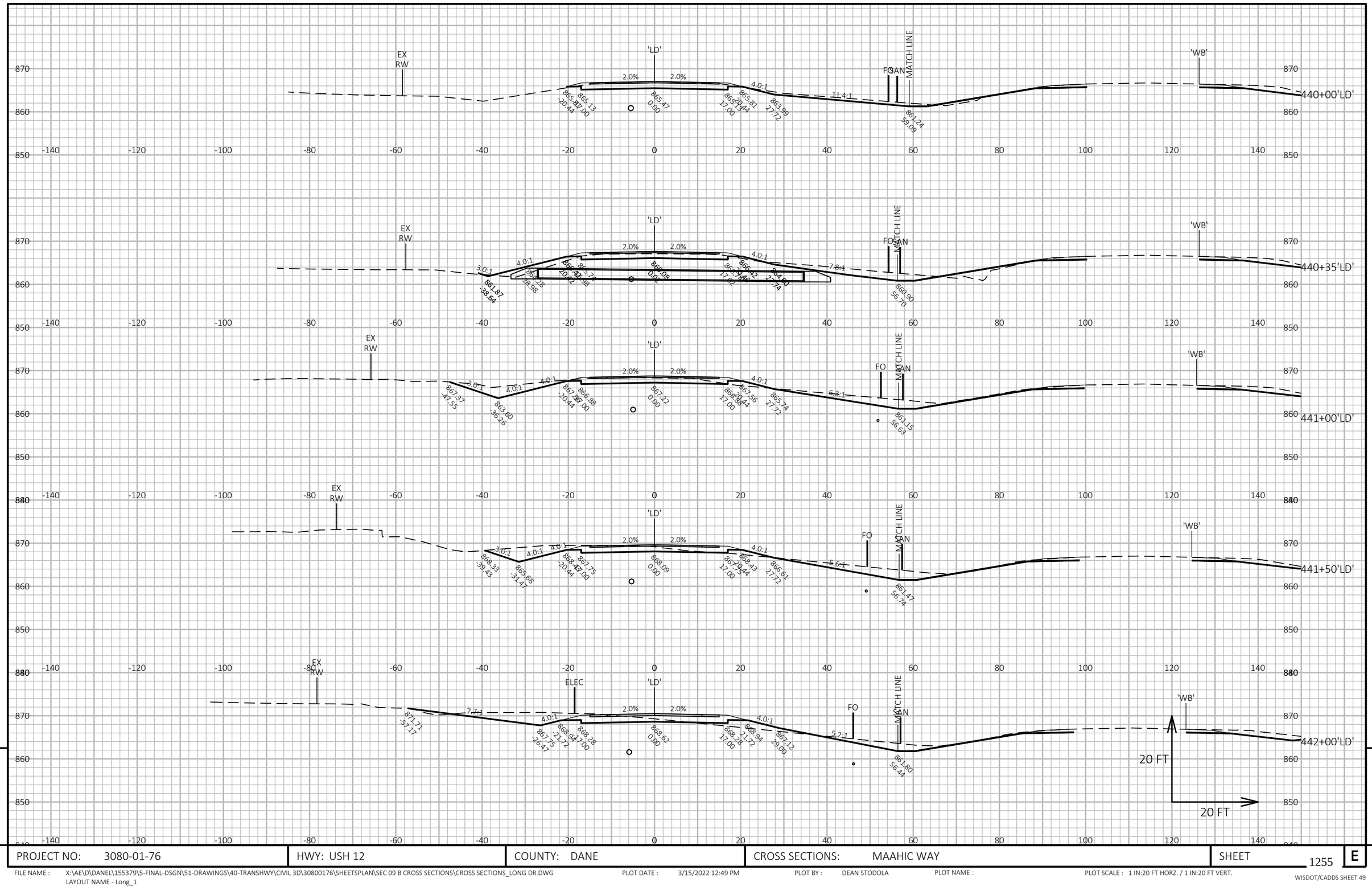
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND.DWG
LAYOUT NAME - Millpond EB_3
PLOT DATE : 3/17/2022 12:41 PM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

BEGIN CONSTRUCTION
STA 437+75'LD'



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1254 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_0
PLOT DATE : 3/15/2022 12:49 PM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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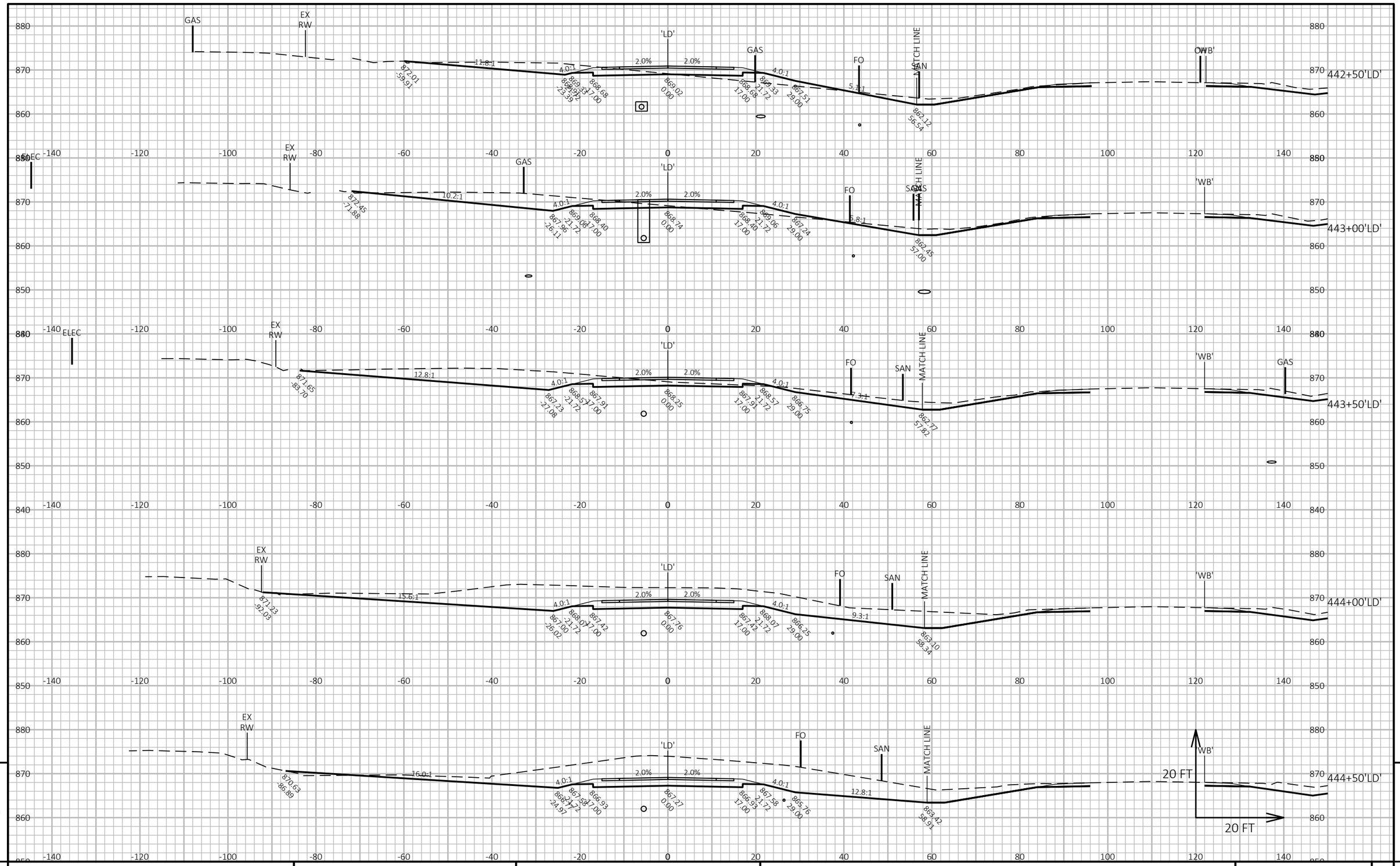
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1255	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_1

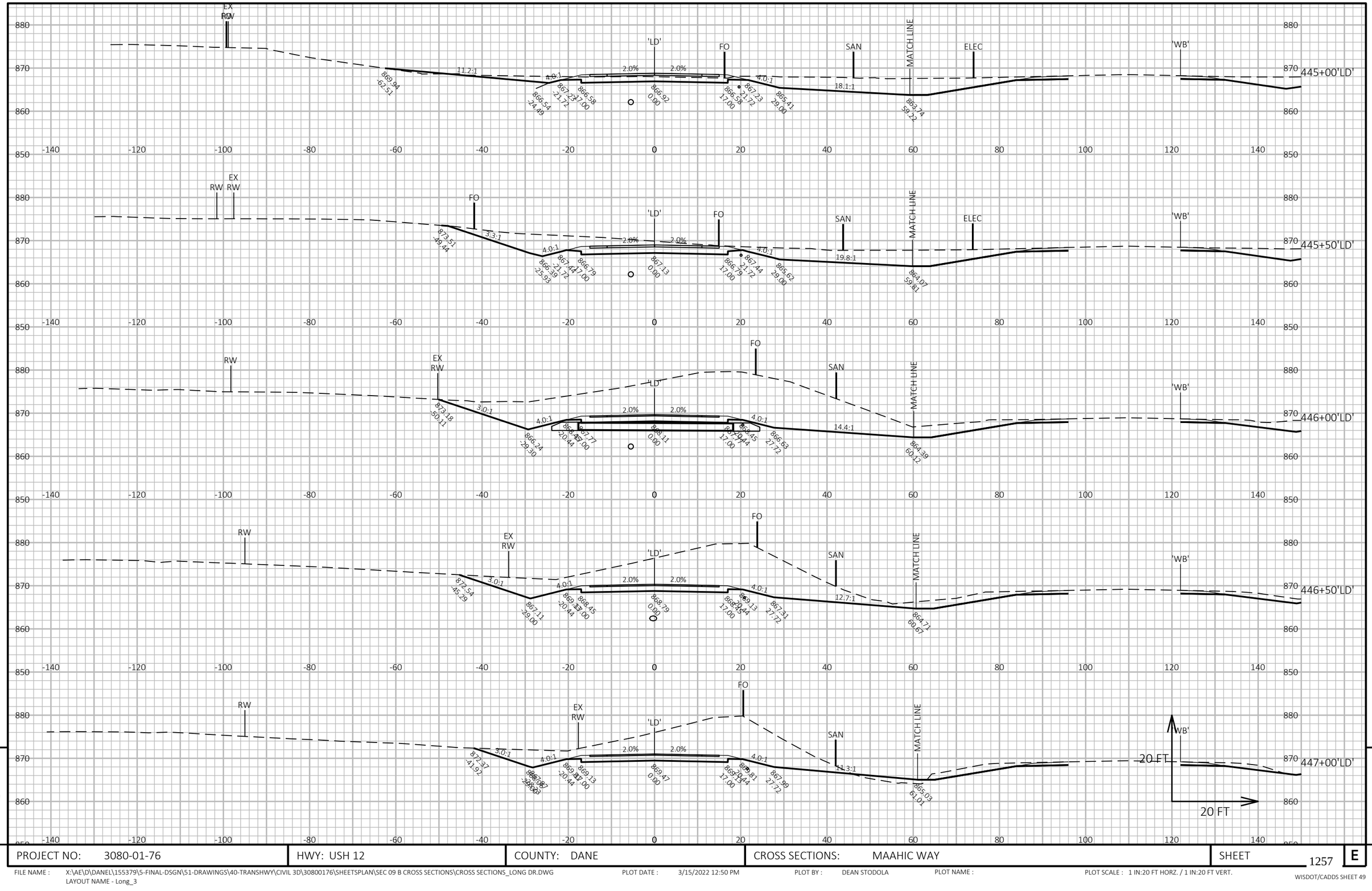
PLOT DATE : 3/15/2022 12:49 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1256 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_2
PLOT DATE : 3/15/2022 12:50 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



9

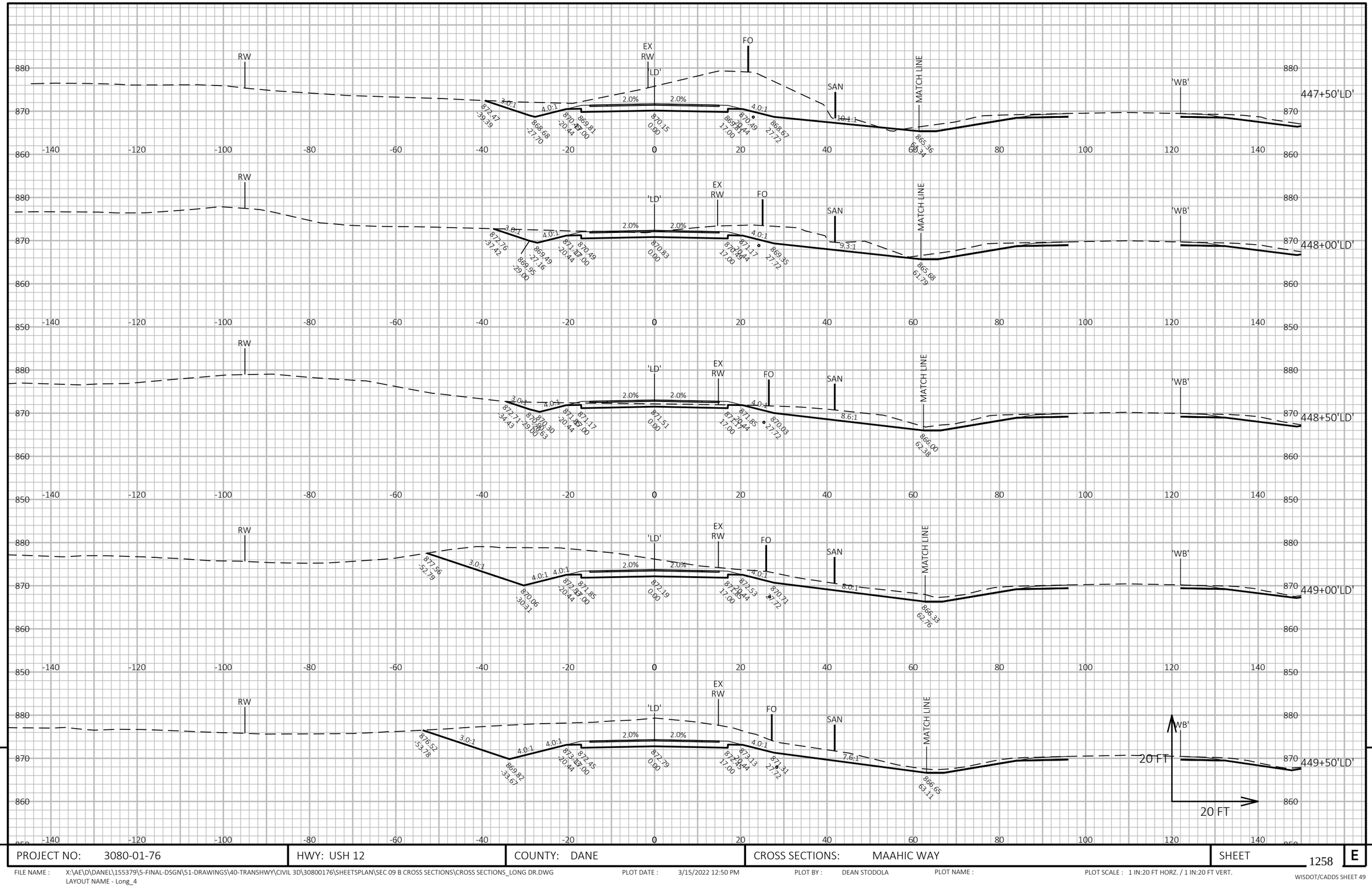
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1257	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_3

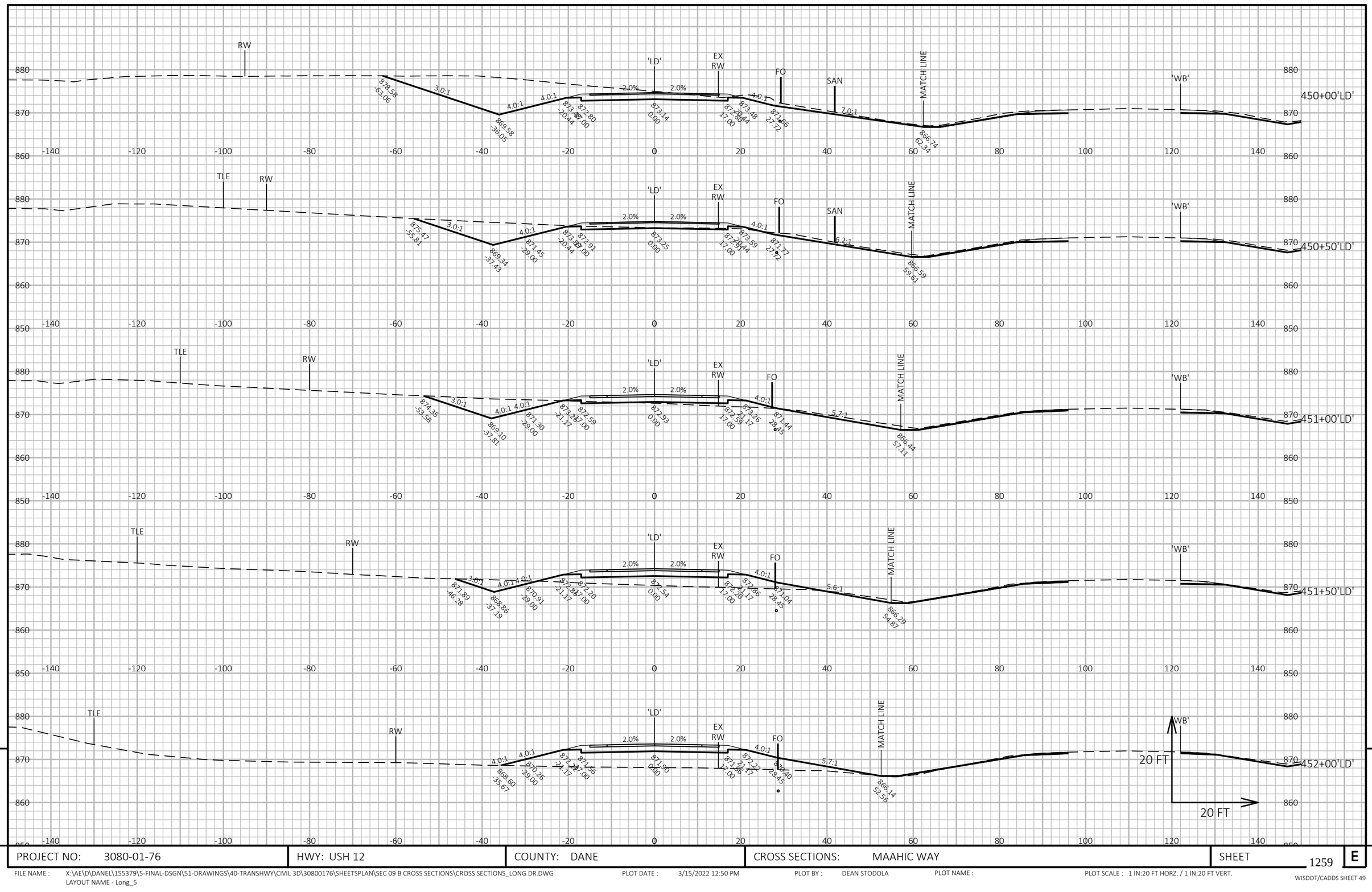
PLOT DATE : 3/15/2022 12:50 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9	PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1258 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_4
PLOT DATE : 3/15/2022 12:50 PM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49

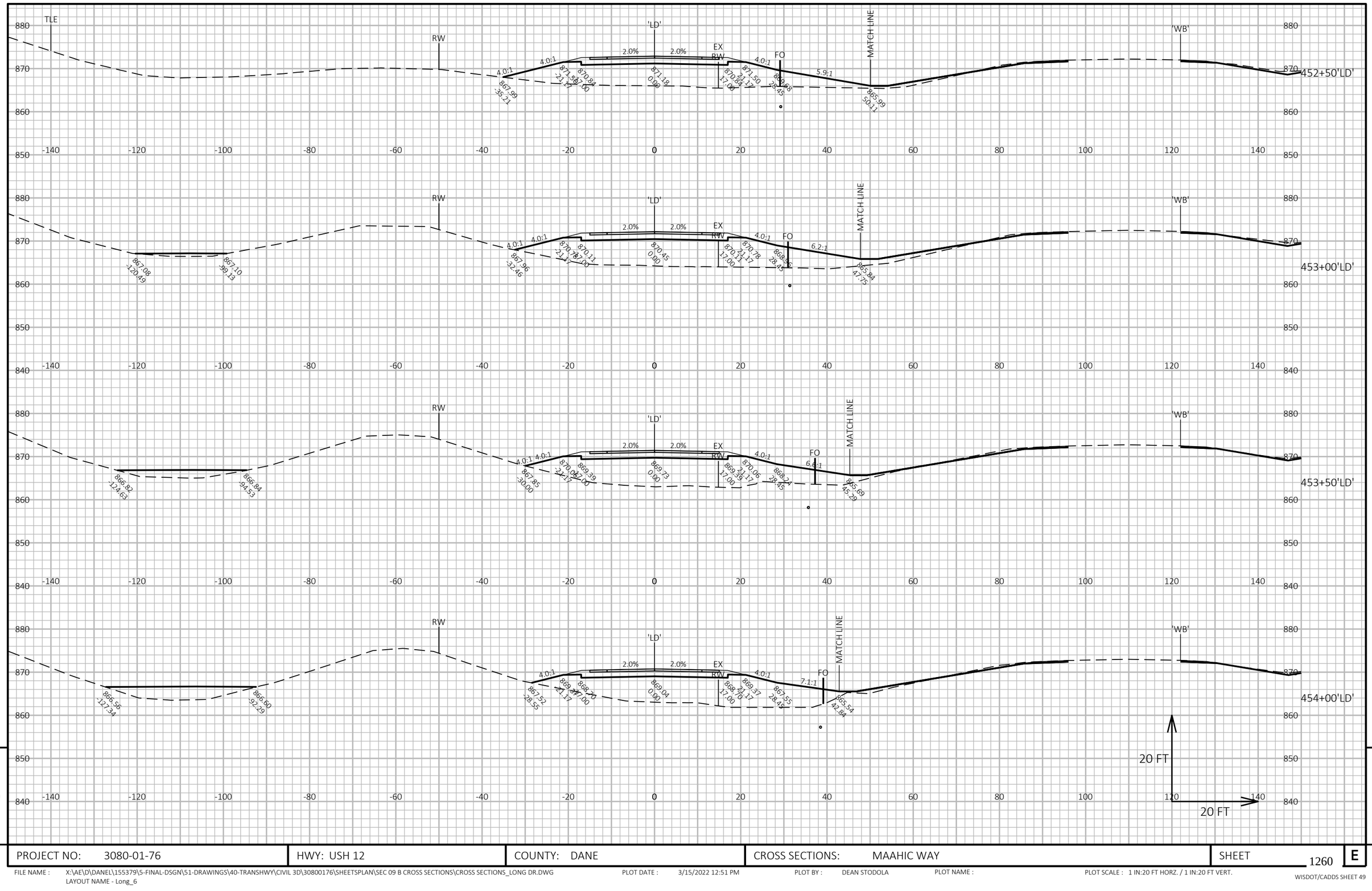


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1259	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_5

PLOT DATE : 3/15/2022 12:50 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

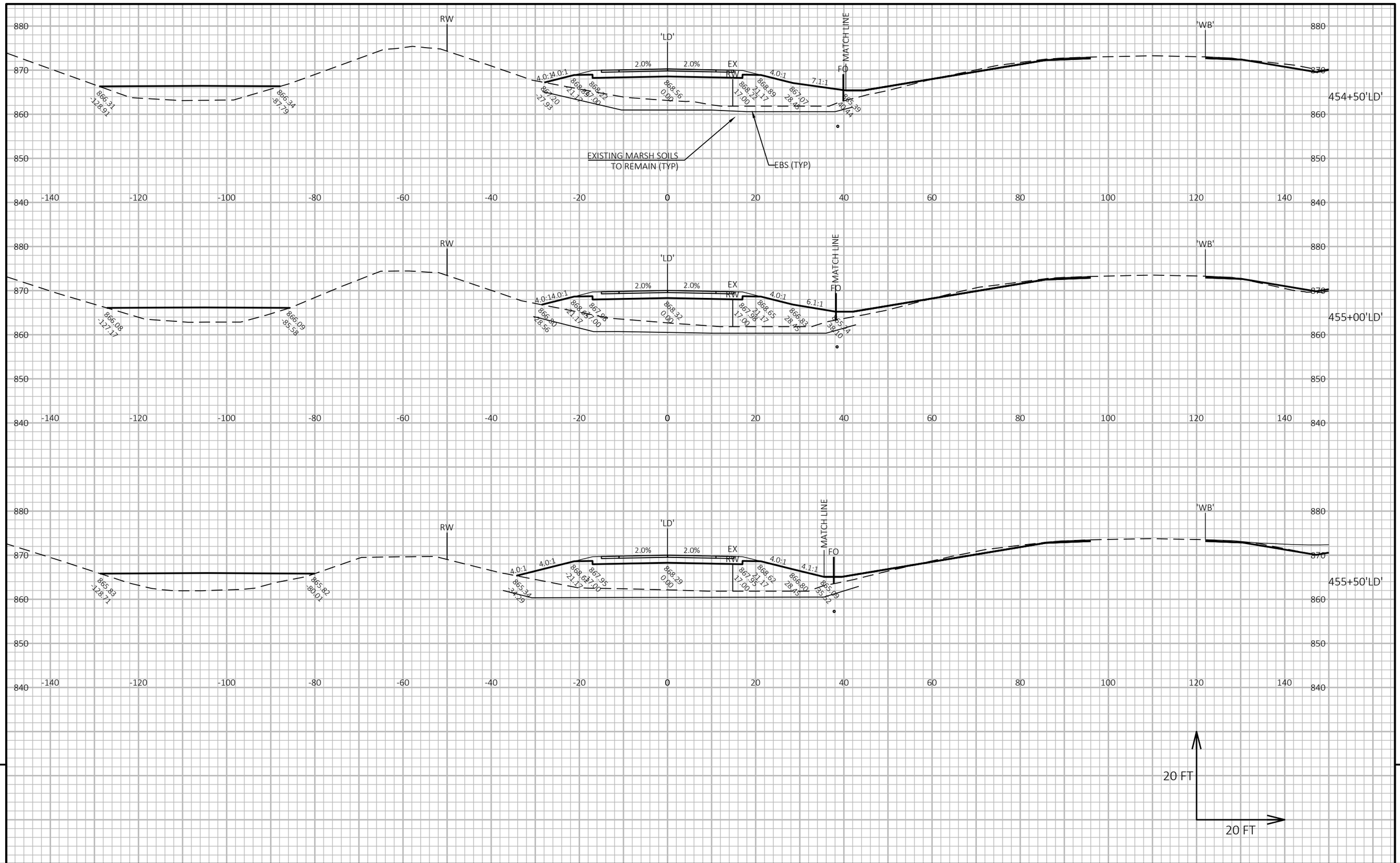
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1260	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_6

PLOT DATE : 3/15/2022 12:51 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

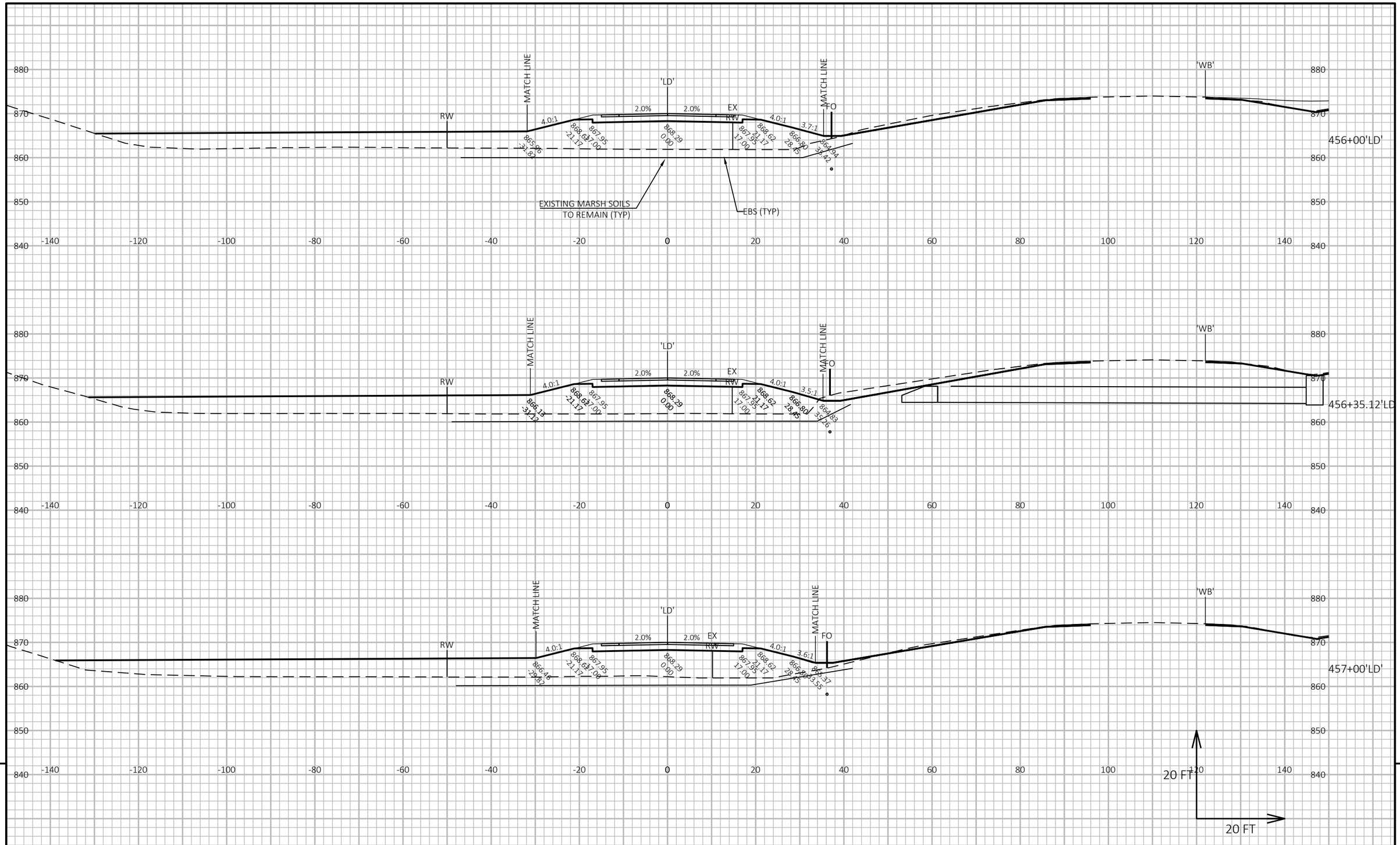


9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1261	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_7
PLOT DATE : 3/15/2022 12:51 PM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49

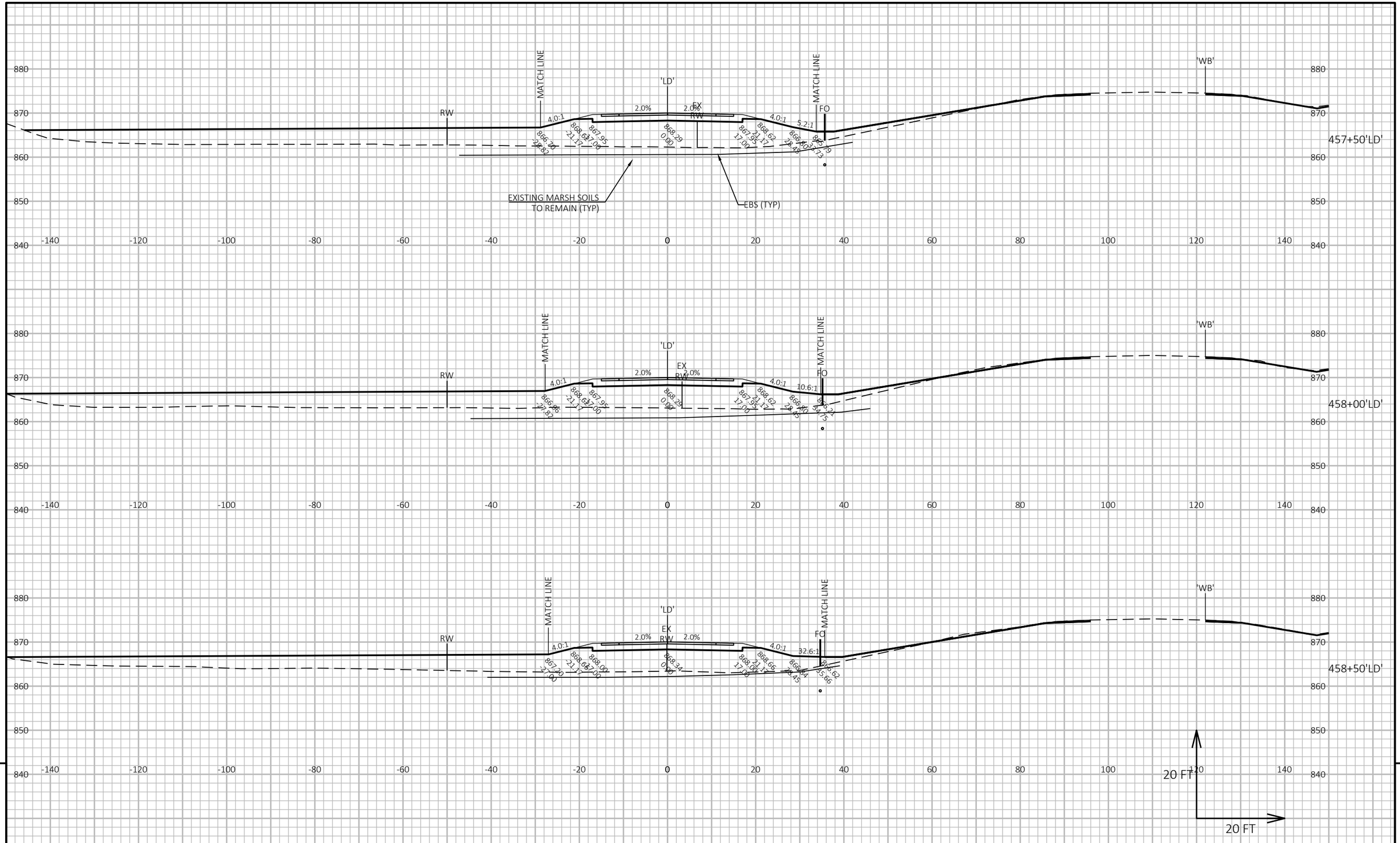


9

9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1262	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_8
PLOT DATE : 3/15/2022 12:51 PM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



9

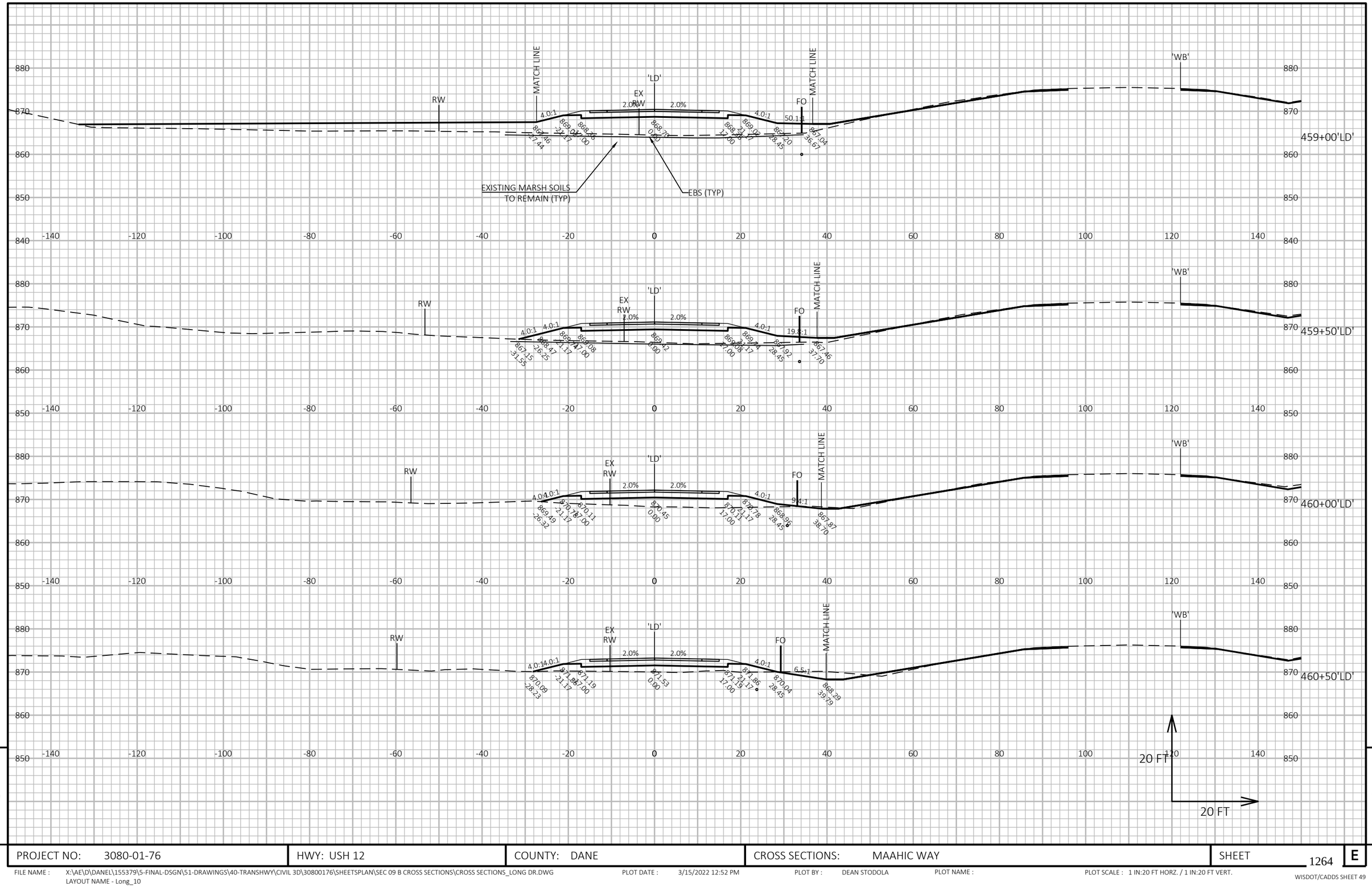
9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1263	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_9

PLOT DATE : 3/15/2022 12:52 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

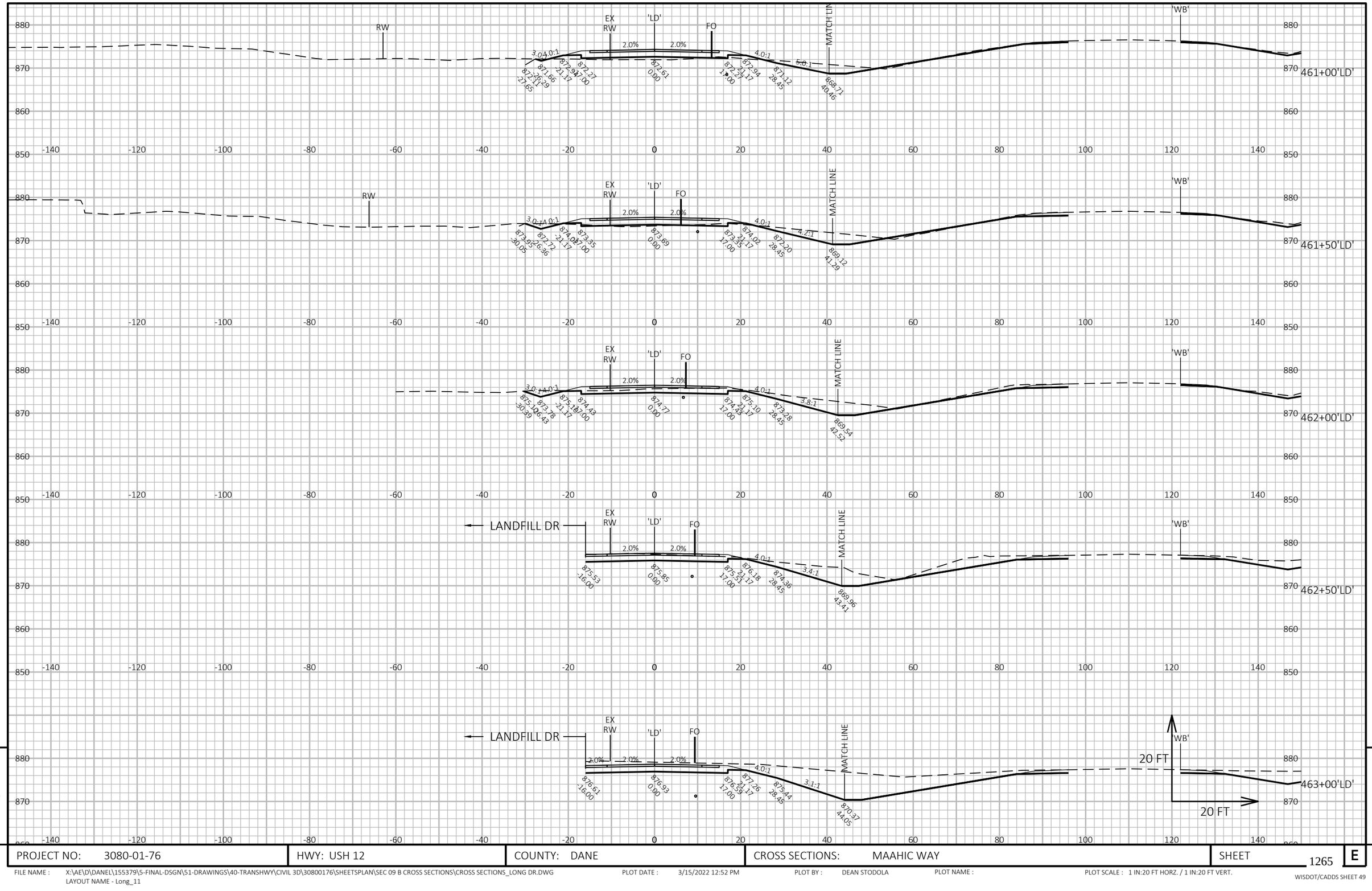


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1264	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_10

PLOT DATE : 3/15/2022 12:52 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

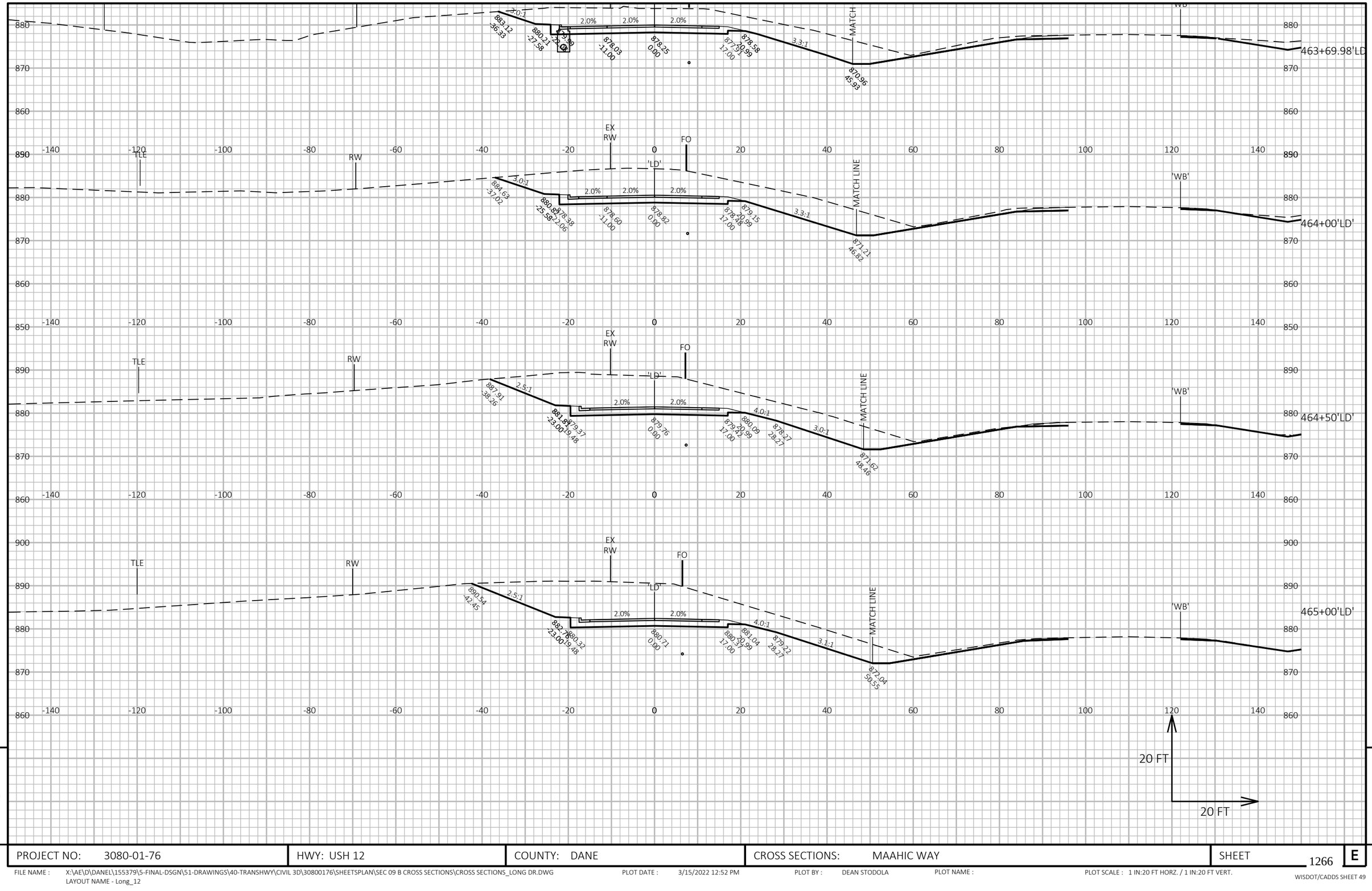


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1265 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_11
PLOT DATE : 3/15/2022 12:52 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

9

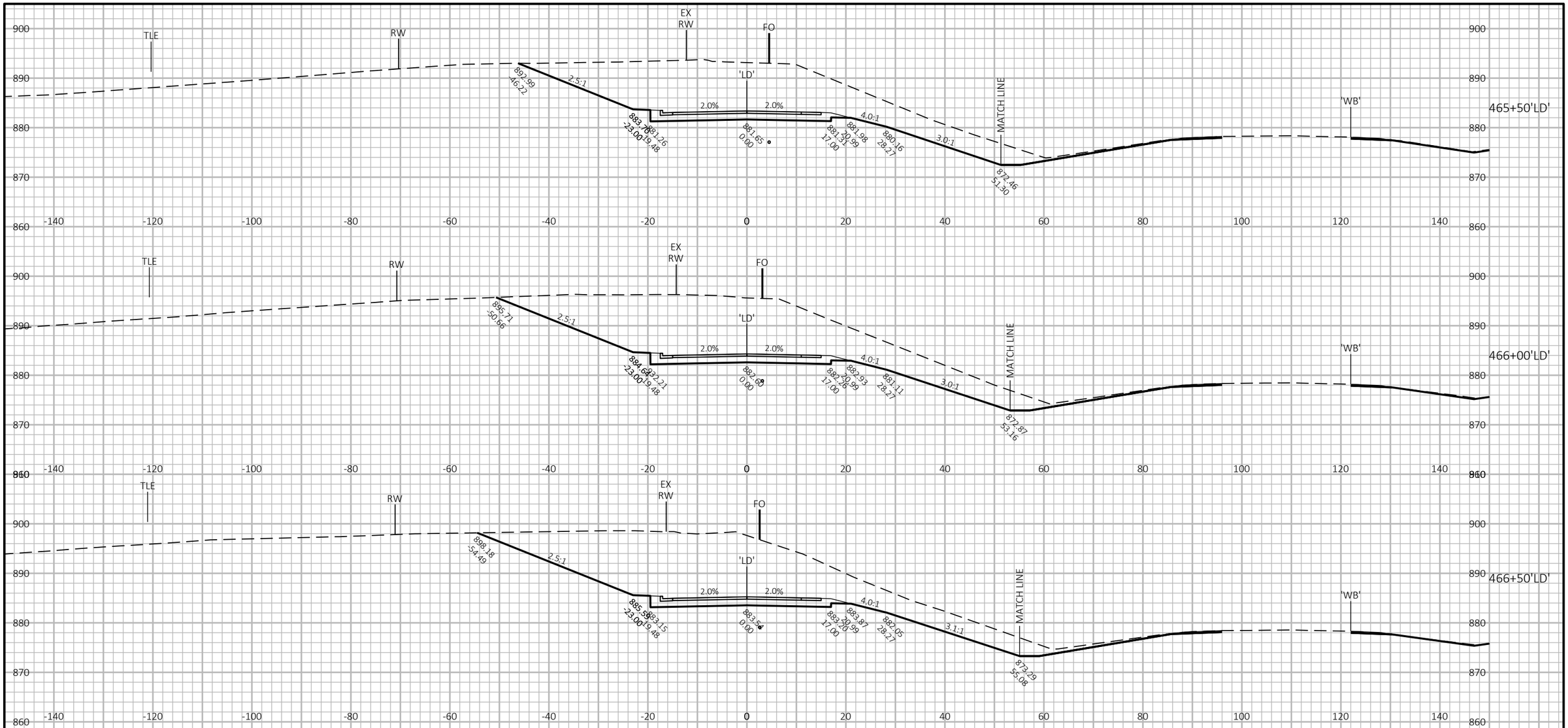


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1266 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_12

PLOT DATE : 3/15/2022 12:52 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

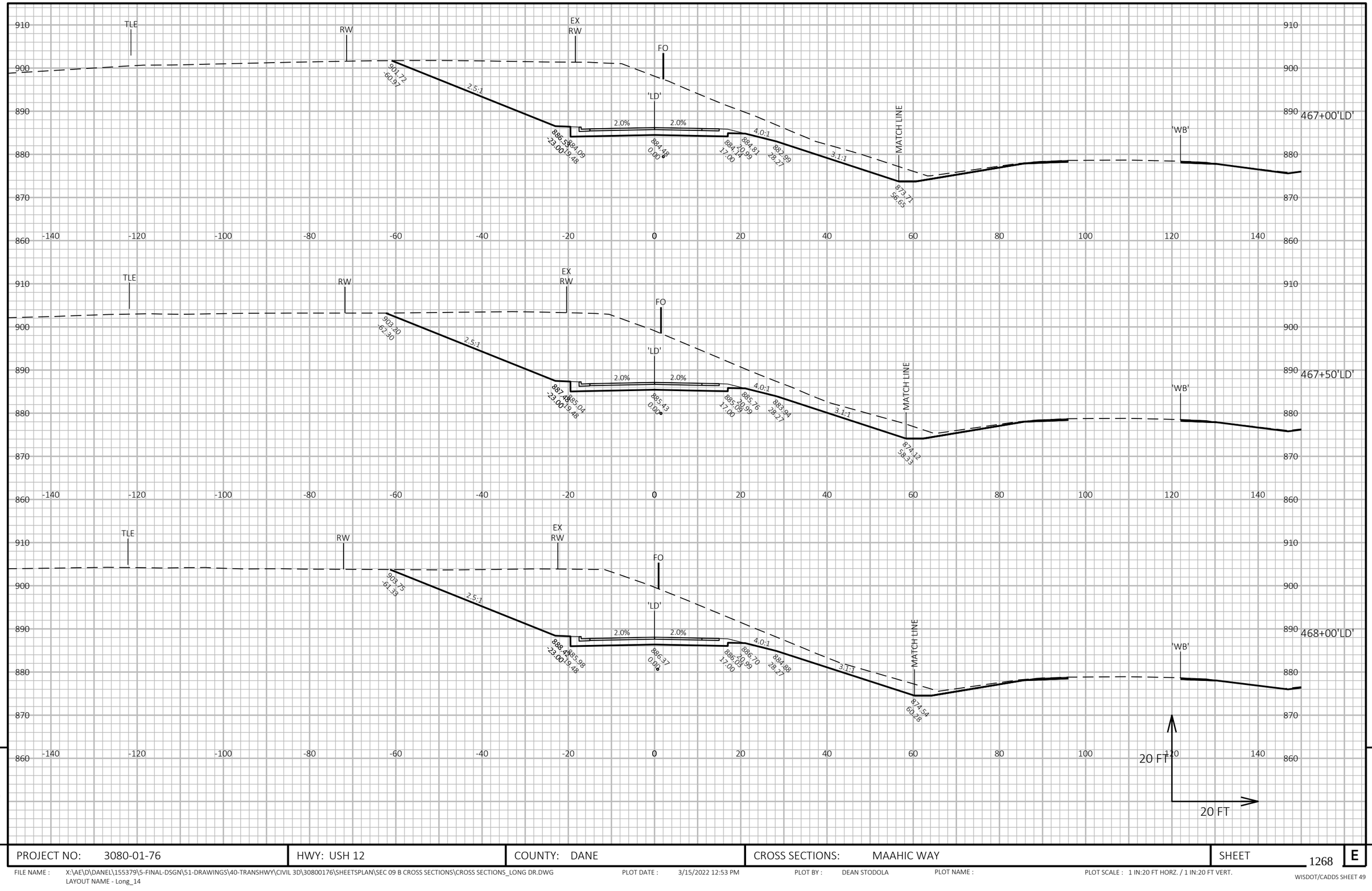
WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1267	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_13
PLOT DATE : 3/15/2022 12:53 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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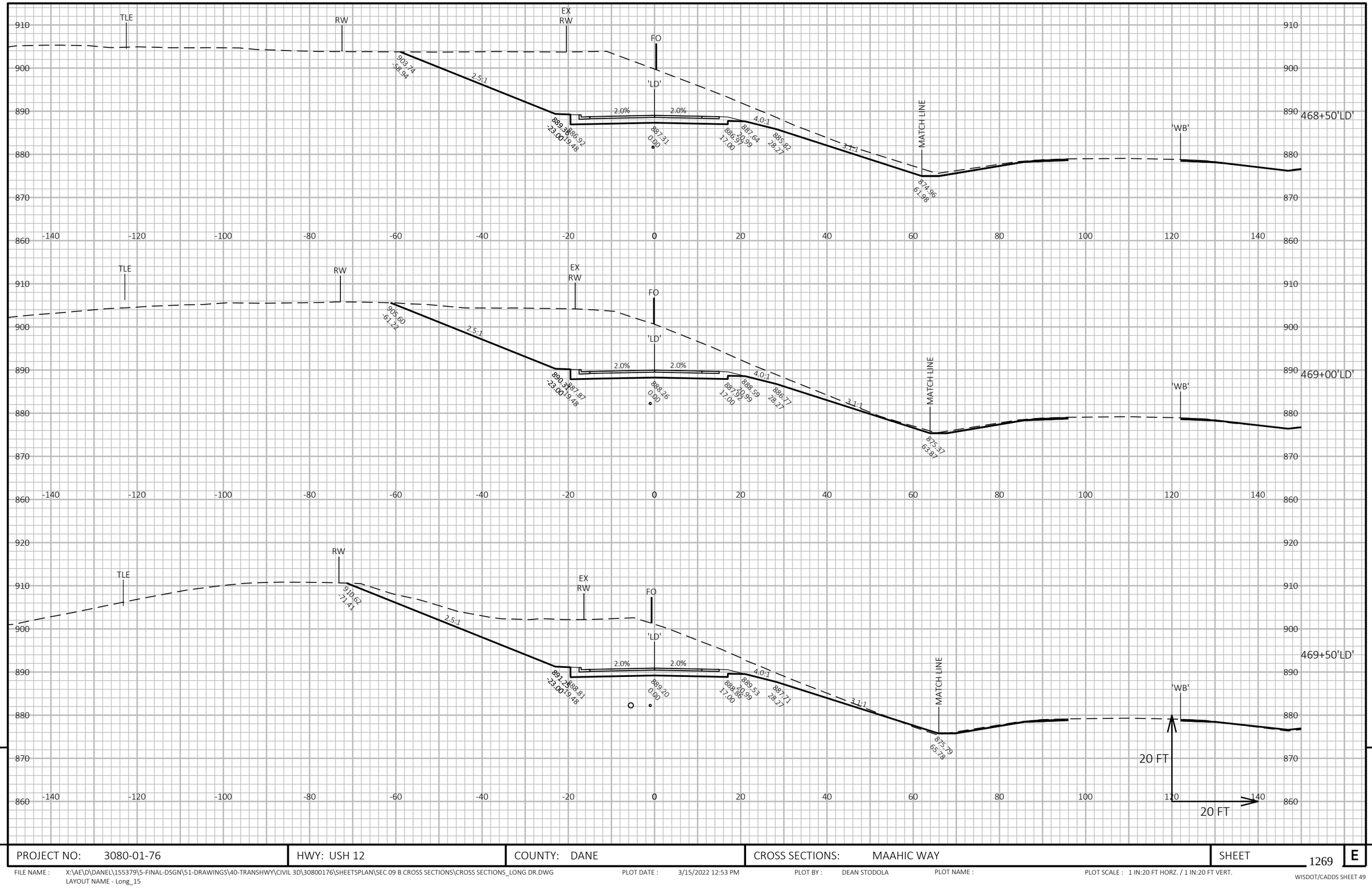
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1268 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_14

PLOT DATE : 3/15/2022 12:53 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



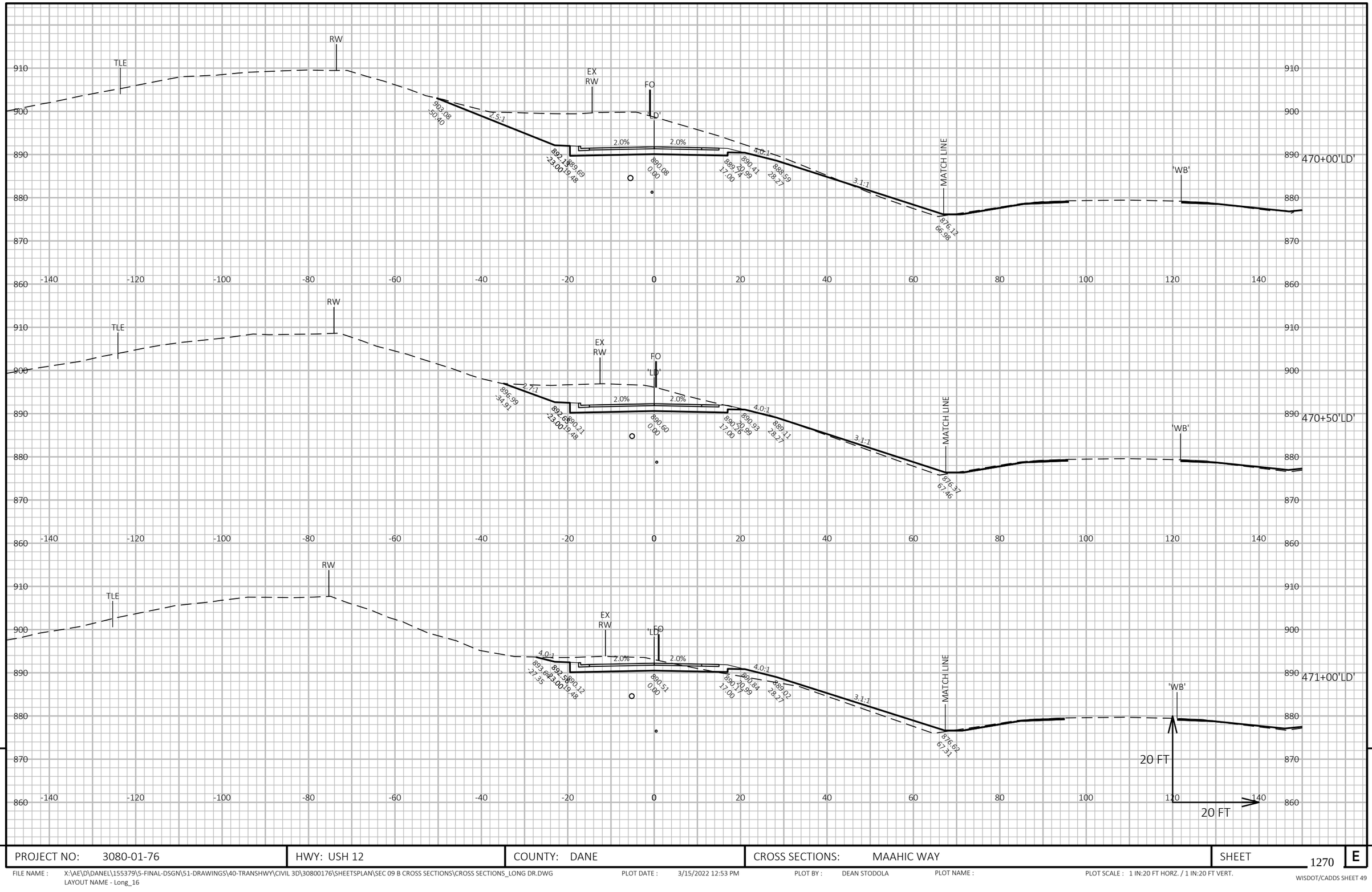
9 9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1269 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_15

PLOT DATE : 3/15/2022 12:53 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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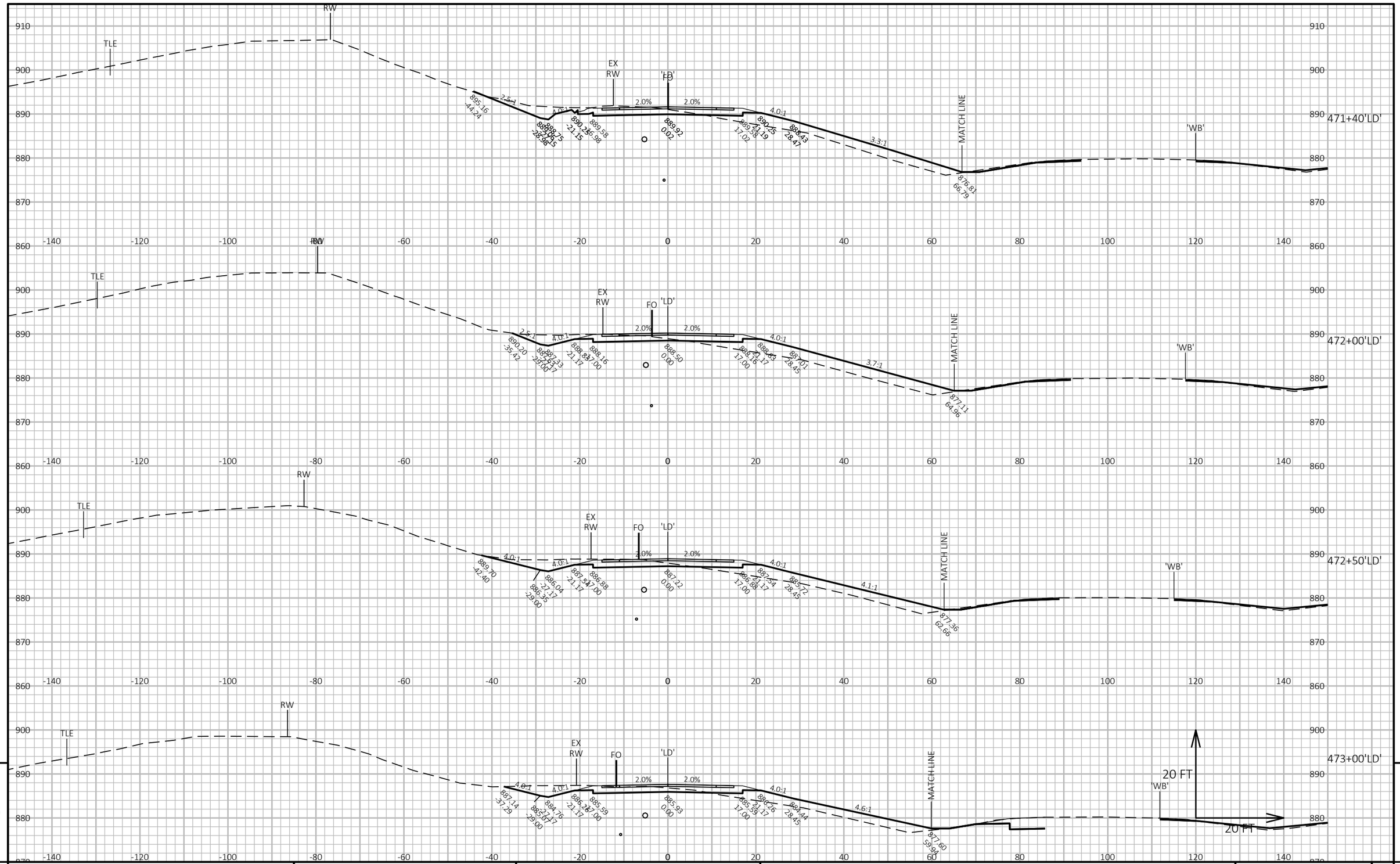
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1270	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_16

PLOT DATE : 3/15/2022 12:53 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1271	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_17

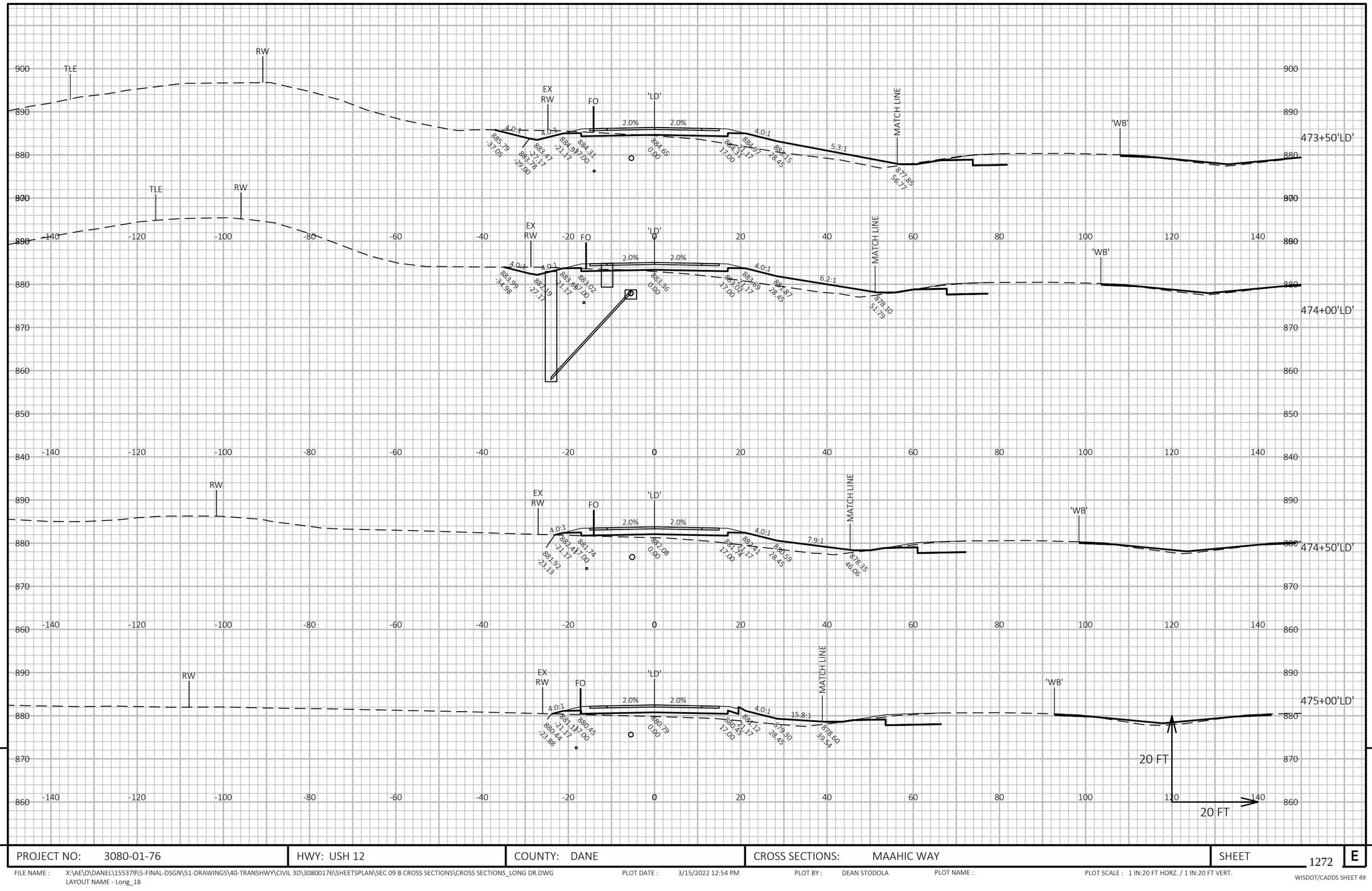
PLOT DATE : 3/15/2022 12:54 PM

PLOT BY : DEAN STODOLA

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

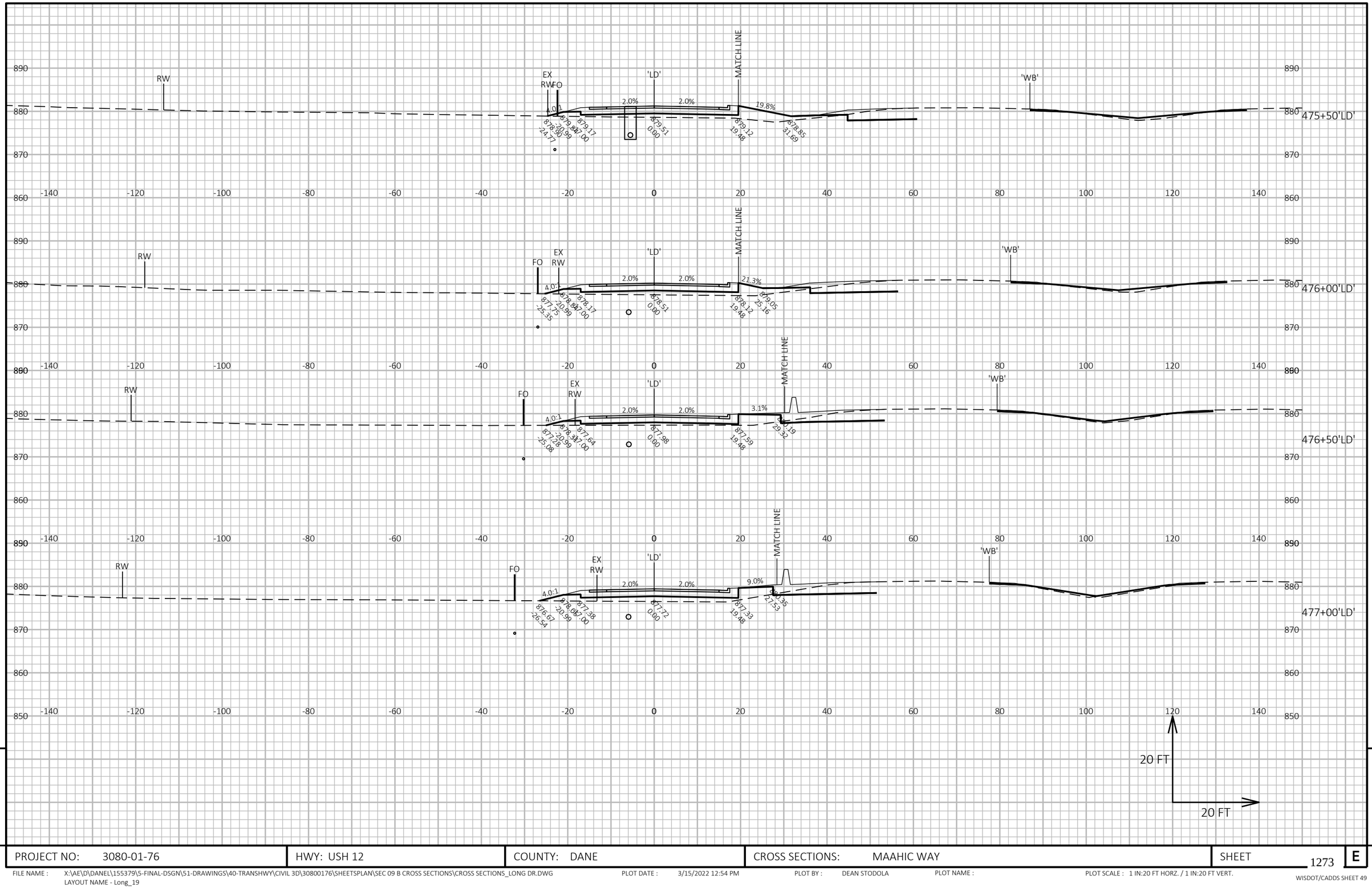


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1272	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_18

PLOT DATE : 3/15/2022 12:54 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1273	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_19

PLOT DATE : 3/15/2022 12:54 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

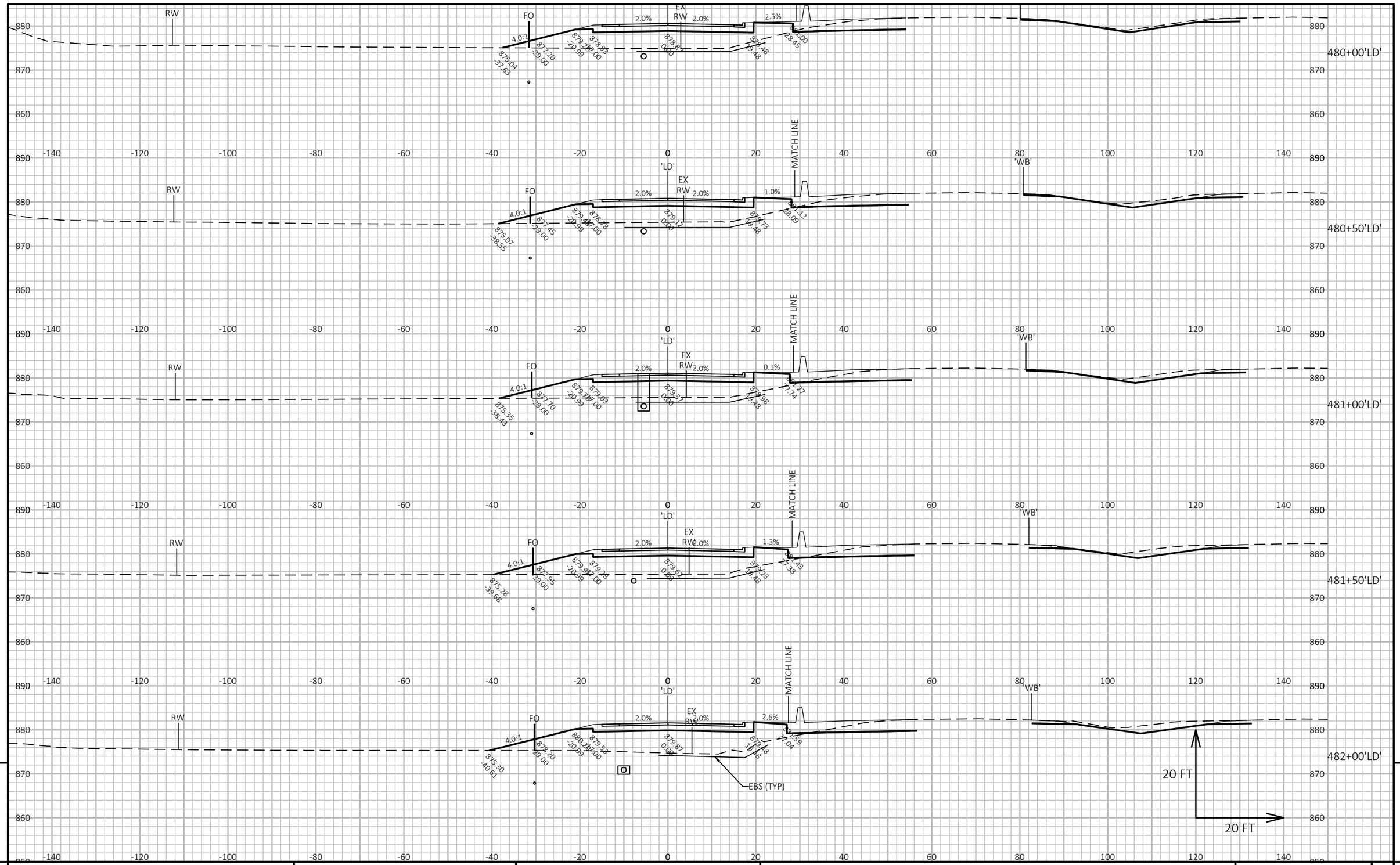
WISDOT/CADDS SHEET 49

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1274	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_20

PLOT DATE : 3/15/2022 12:55 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1275 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_21

PLOT DATE : 3/15/2022 12:55 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

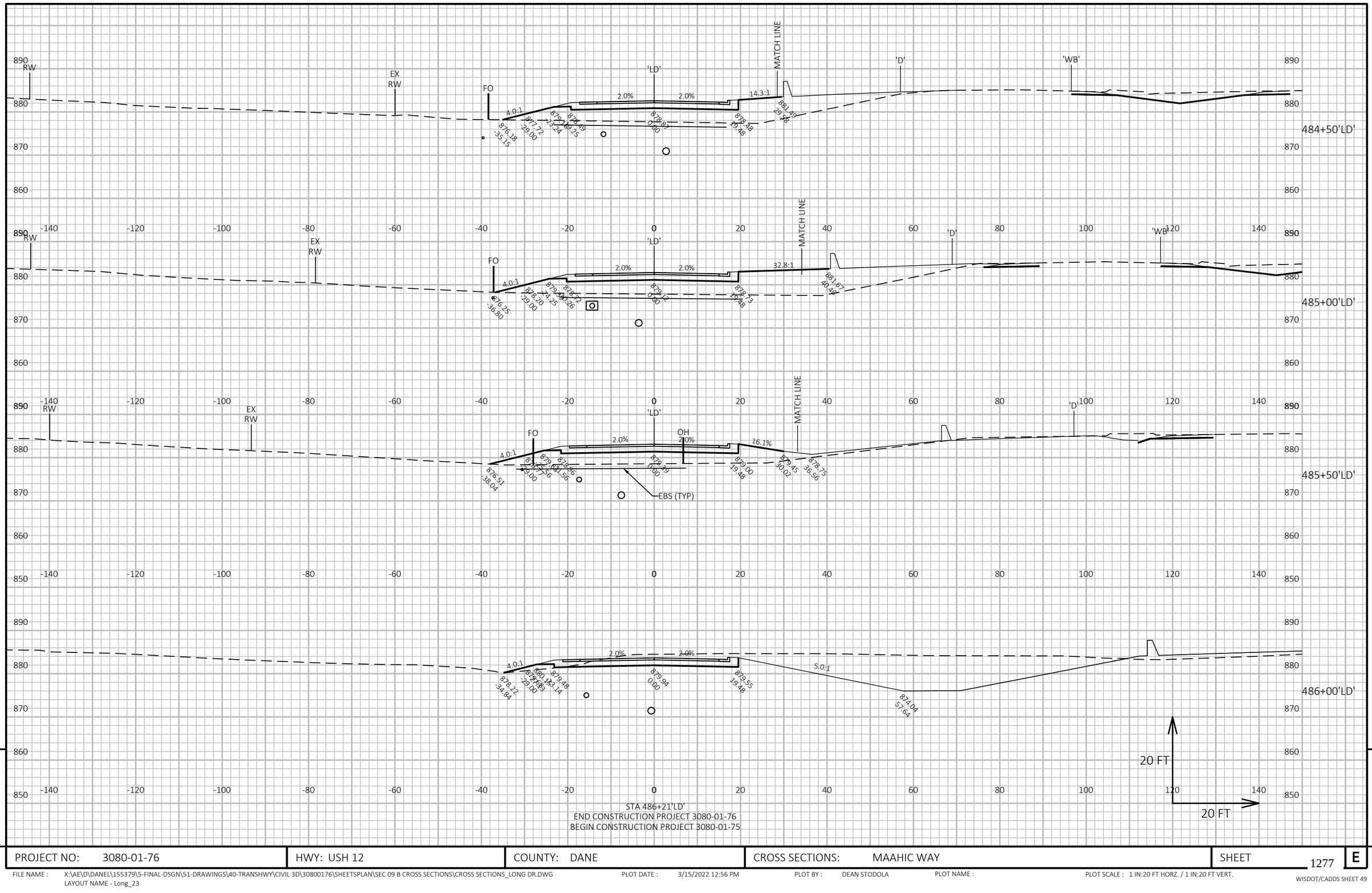
WISDOT/CADDS SHEET 49

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1276	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_LONG DR.DWG
LAYOUT NAME - Long_22

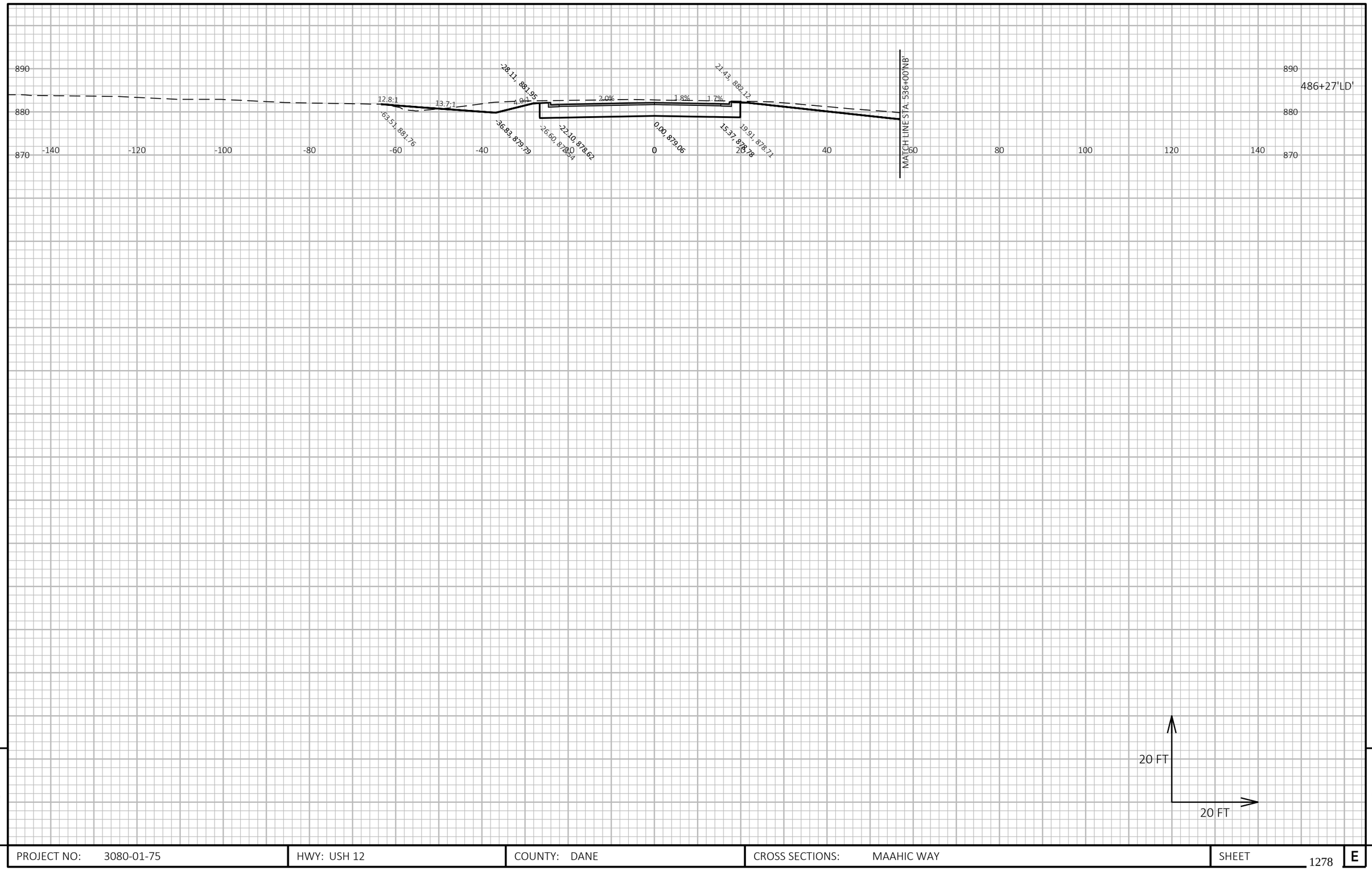
PLOT DATE : 3/15/2022 12:55 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



STA 486+21'LD'
END CONSTRUCTION PROJECT 3080-01-76
BEGIN CONSTRUCTION PROJECT 3080-01-75

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1277	E



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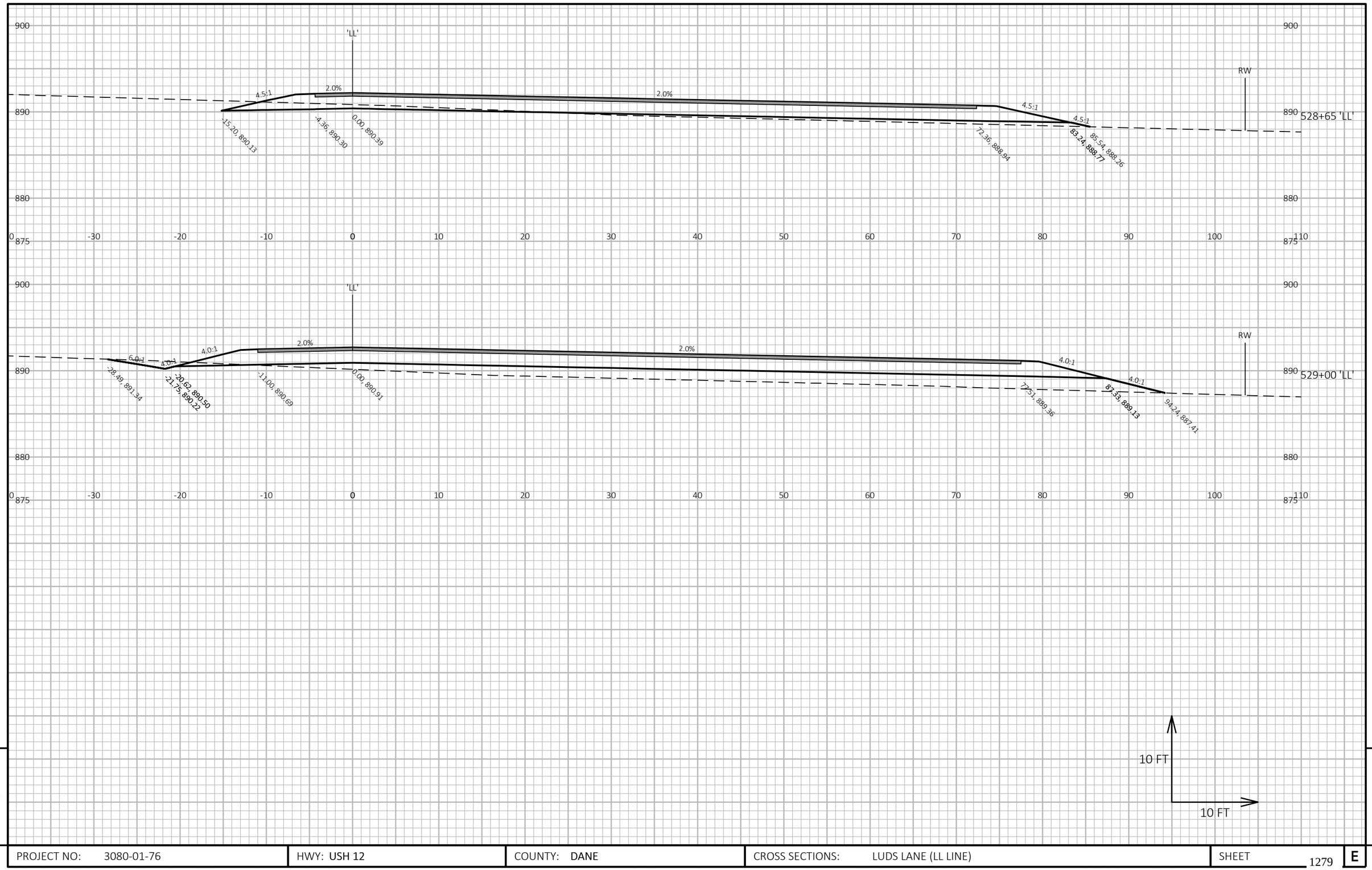
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAAHIC WAY	SHEET 1278	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090202-XS_NB CTH AB.DWG
LAYOUT NAME - LDxs_01

PLOT DATE : 1/5/2022 10:36 AM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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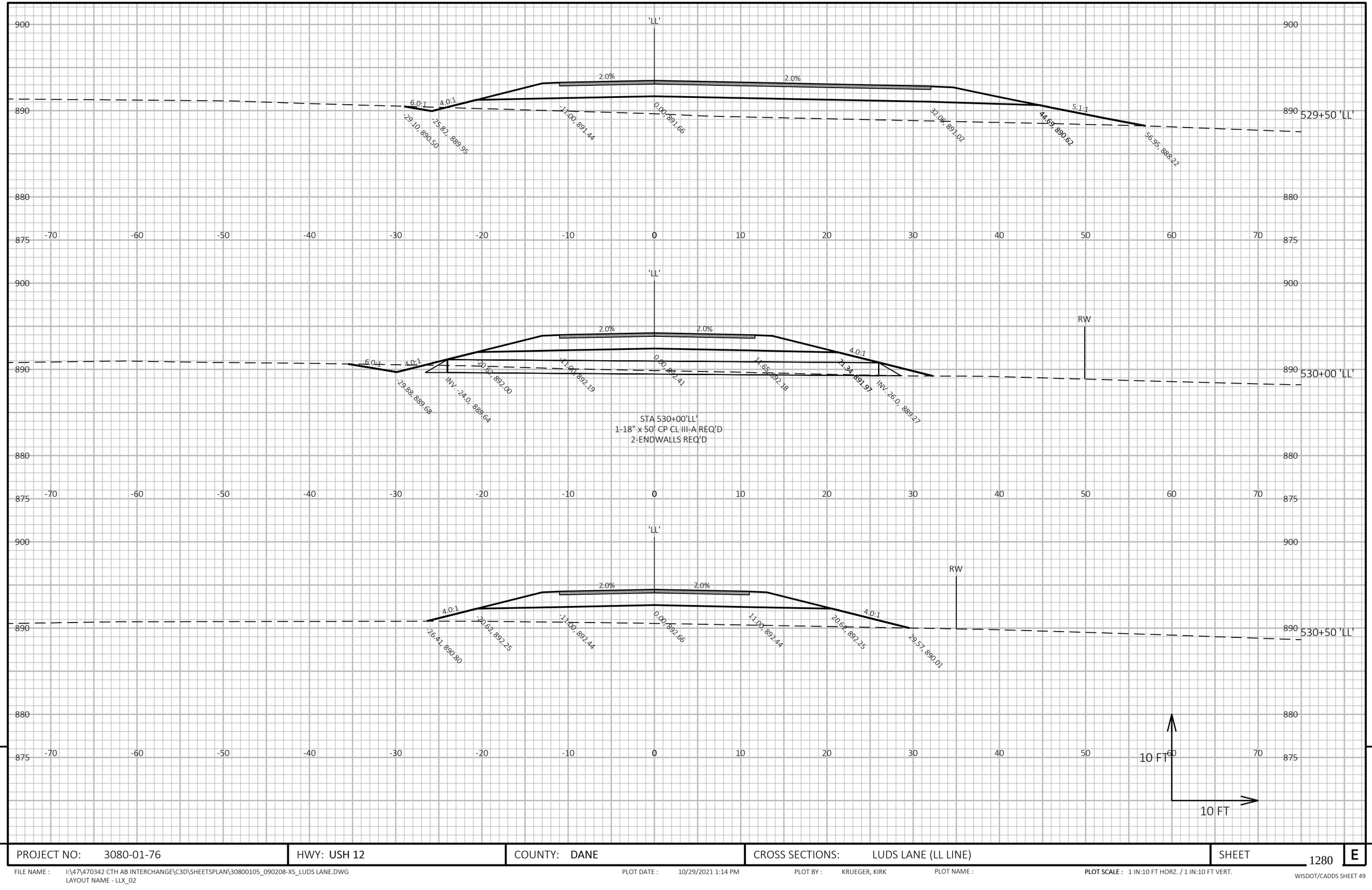
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: LUDS LANE (LL LINE)	SHEET 1279	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090208-XS_LUDS LANE.DWG
LAYOUT NAME - LLX_01

PLOT DATE : 10/29/2021 1:14 PM PLOT BY : KRUEGER, KIRK PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: LUDS LANE (LL LINE)	SHEET 1280	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090208-XS_LUDS LANE.DWG
LAYOUT NAME - LLX_02

PLOT DATE : 10/29/2021 1:14 PM PLOT BY : KRUEGER, KIRK PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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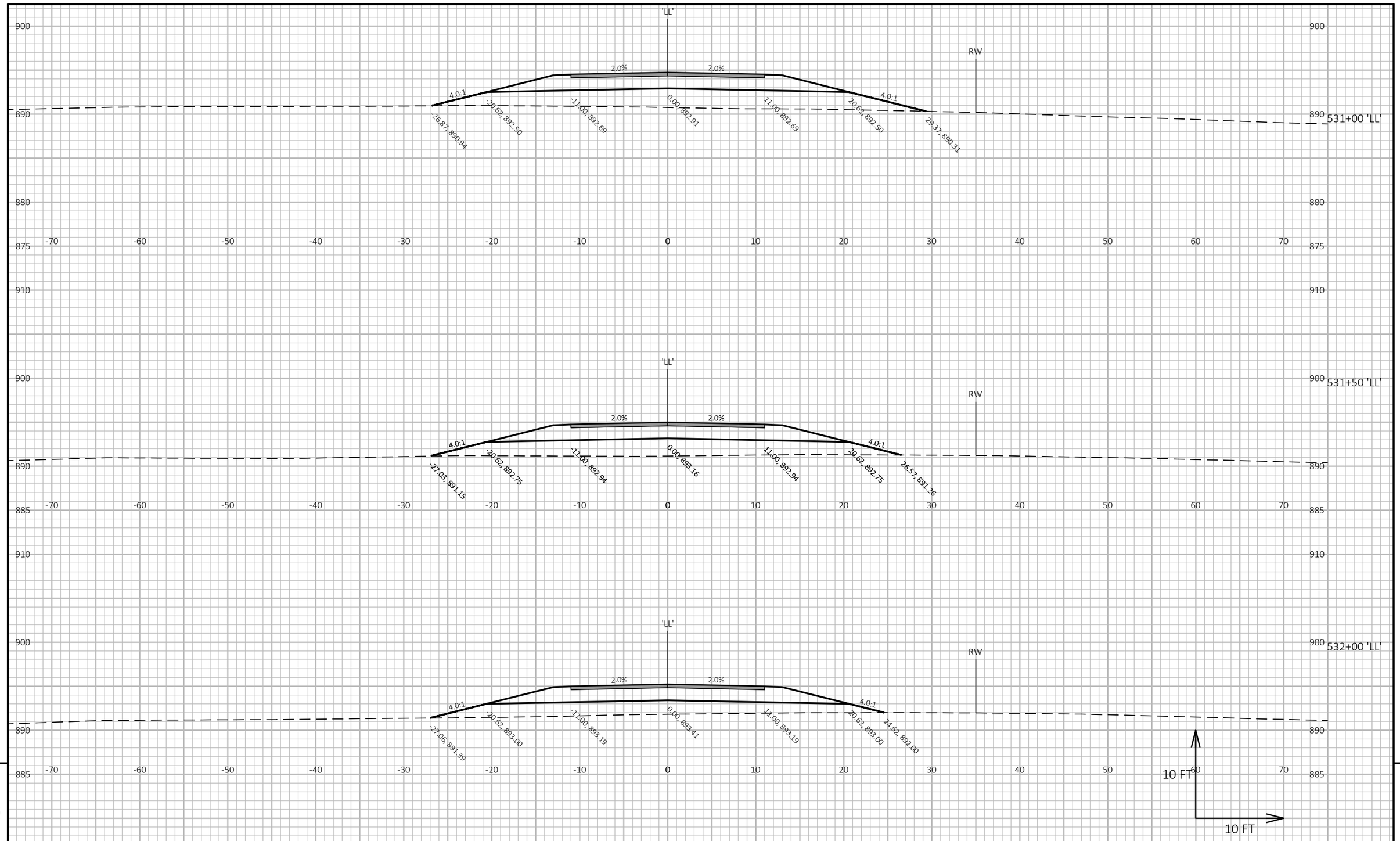
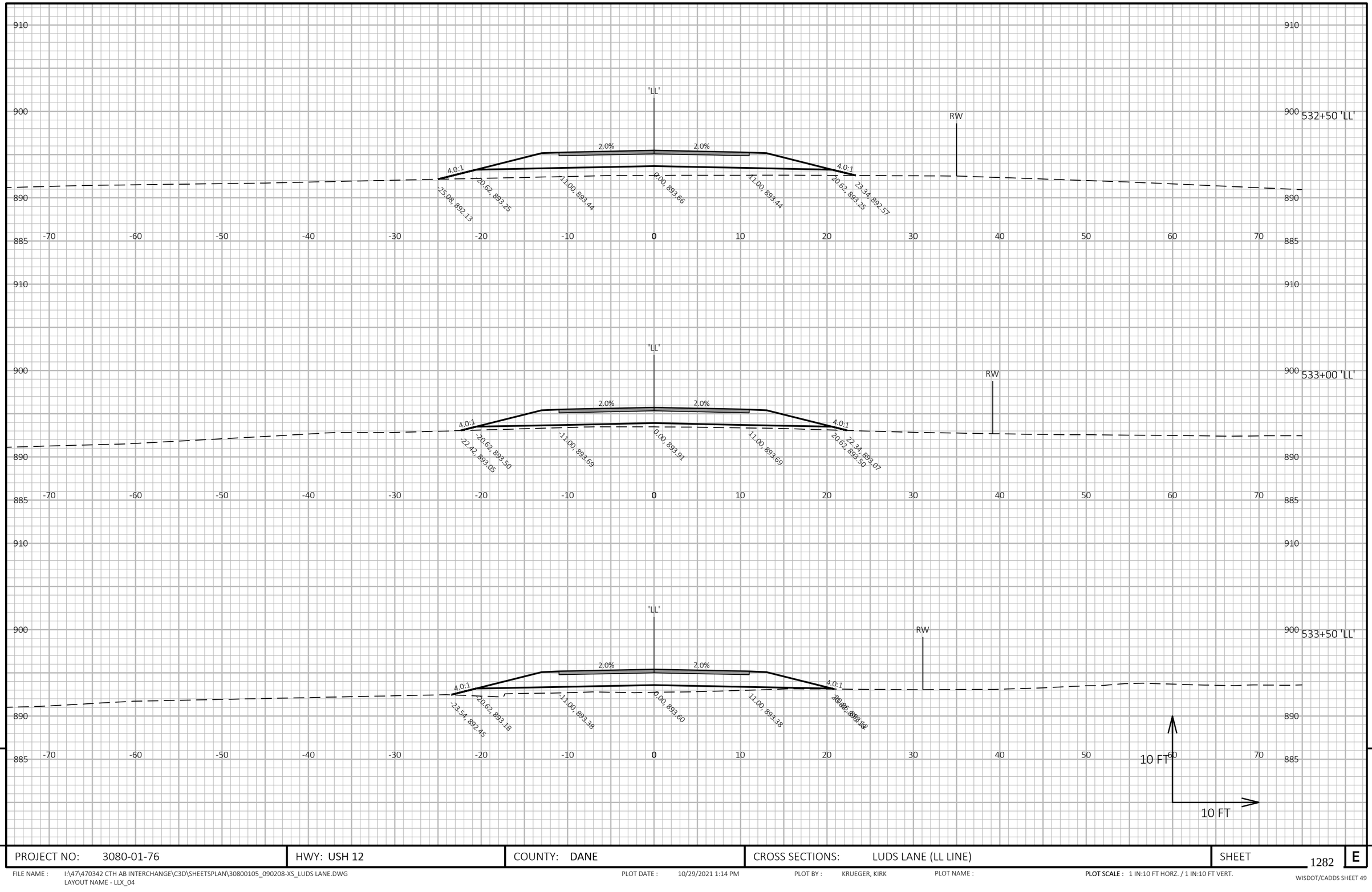


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: LUDS LANE (LL LINE)	SHEET 1281	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090208-XS_LUDS LANE.DWG
LAYOUT NAME - LLX_03

PLOT DATE : 10/29/2021 1:14 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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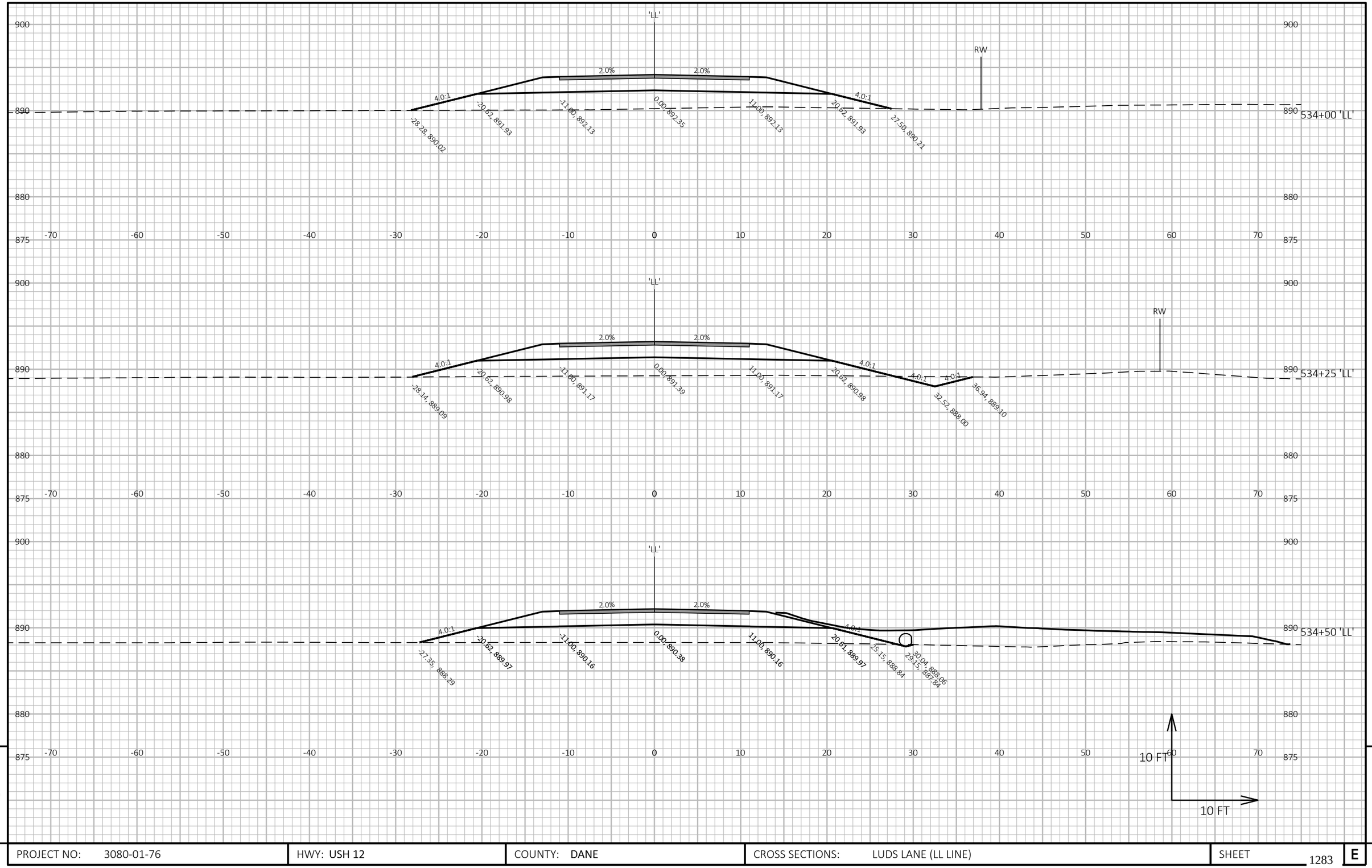
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: LUDS LANE (LL LINE)	SHEET 1282	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090208-XS_LUDS LANE.DWG
LAYOUT NAME - LLX_04

PLOT DATE : 10/29/2021 1:14 PM PLOT BY : KRUEGER, KIRK PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: LUDS LANE (LL LINE)	SHEET 1283	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090208-XS_LUDS LANE.DWG
LAYOUT NAME - LLX_05

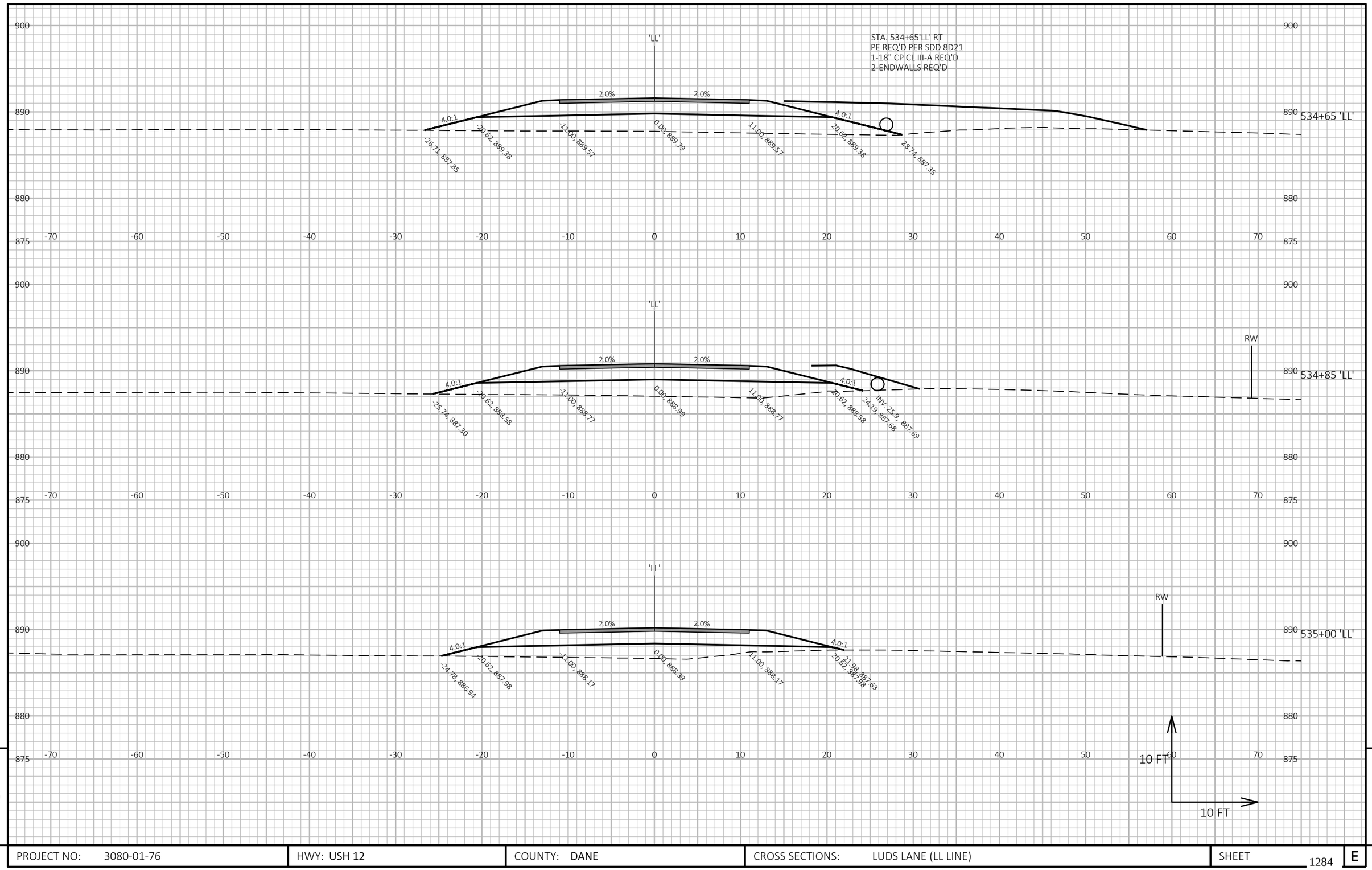
PLOT DATE : 10/29/2021 1:14 PM

PLOT BY : KRUEGER, KIRK

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



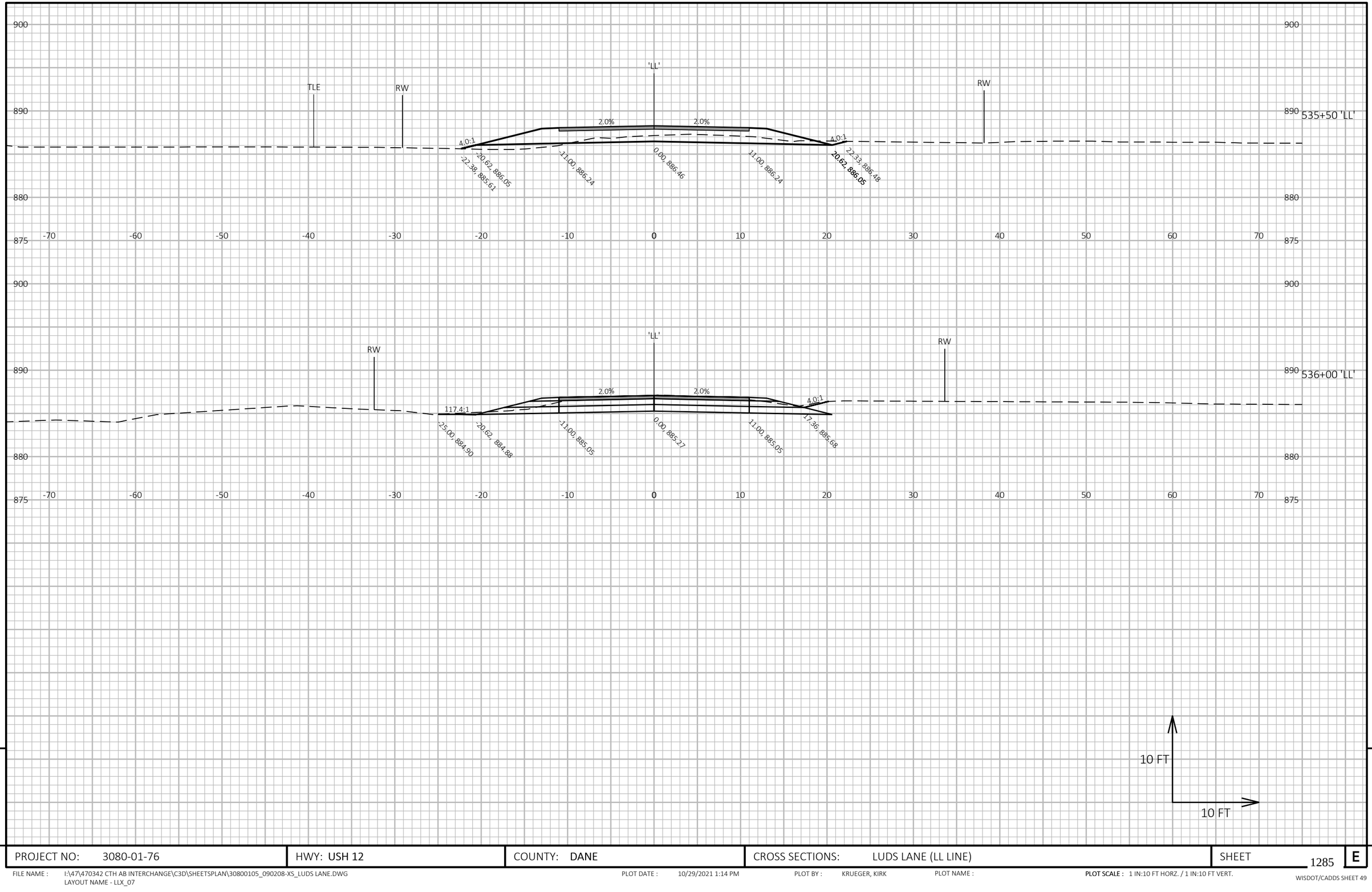
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: LUDS LANE (LL LINE)	SHEET 1284 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090208-XS_LUDS LANE.DWG
LAYOUT NAME - LLX_06

PLOT DATE : 10/29/2021 1:14 PM PLOT BY : KRUEGER, KIRK PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9 9



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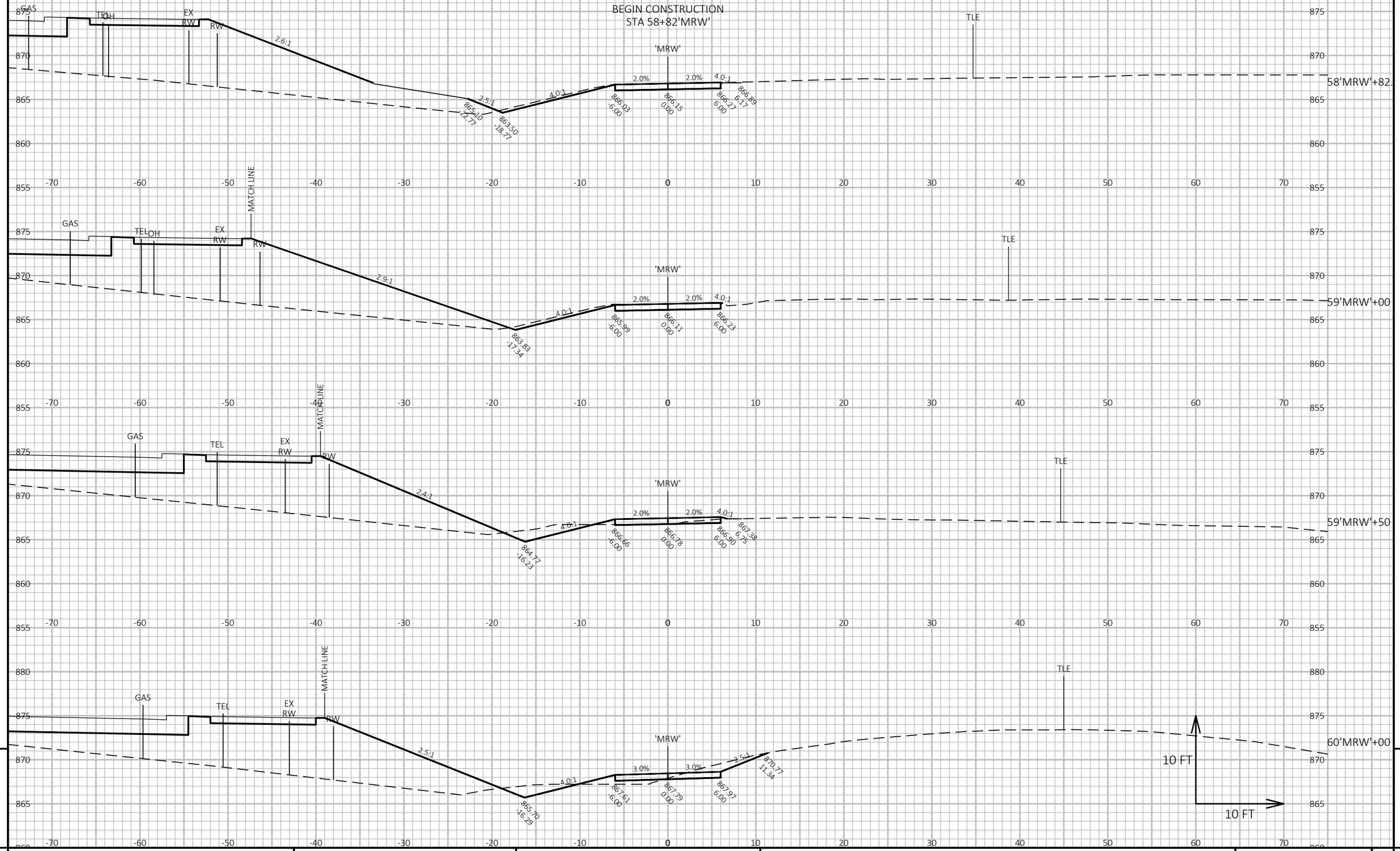
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: LUDS LANE (LL LINE)	SHEET 1285	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_090208-XS_LUDS LANE.DWG
LAYOUT NAME - LLX_07

PLOT DATE : 10/29/2021 1:14 PM PLOT BY : KRUEGER, KIRK PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (WEST)	SHEET 1286	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRW_1

PLOT DATE : 3/15/2022 4:21 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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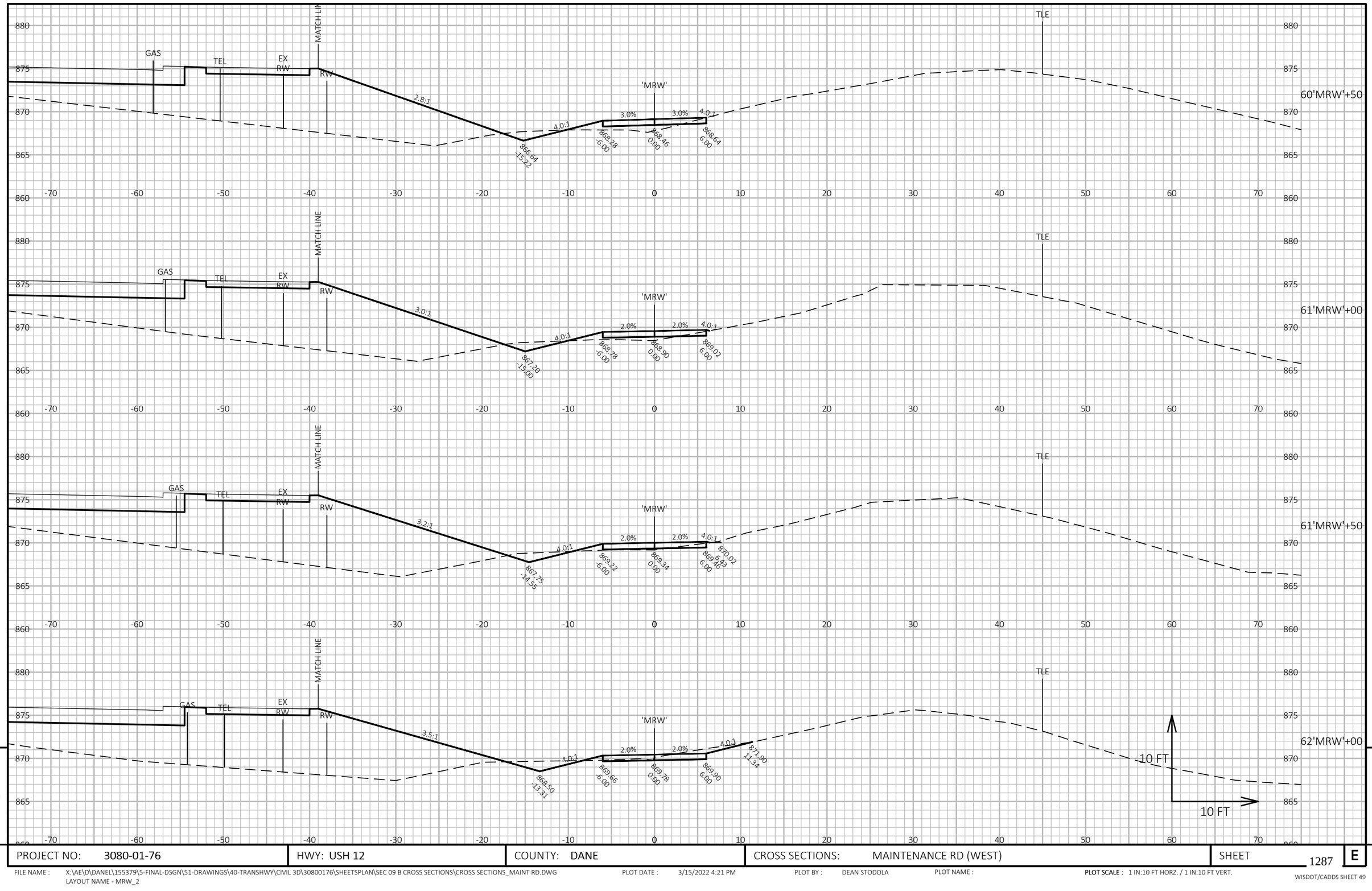

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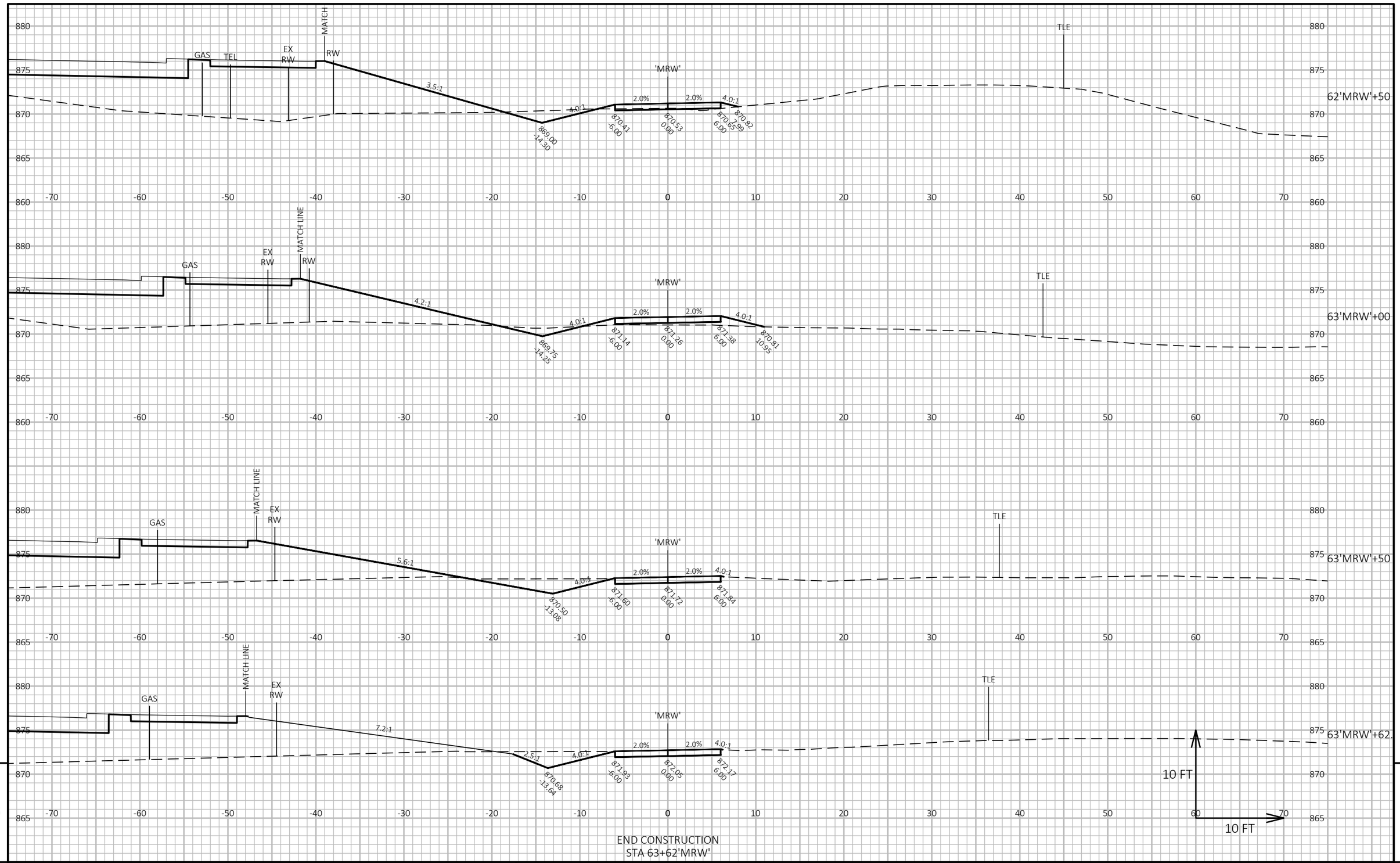
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (WEST)	SHEET 1287	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRW_2

PLOT DATE : 3/15/2022 4:21 PM PLOT BY : DEAN STODOLA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



END CONSTRUCTION
STA 63+62'MRW'

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (WEST)	SHEET 1288	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRW_3

PLOT DATE : 3/15/2022 4:22 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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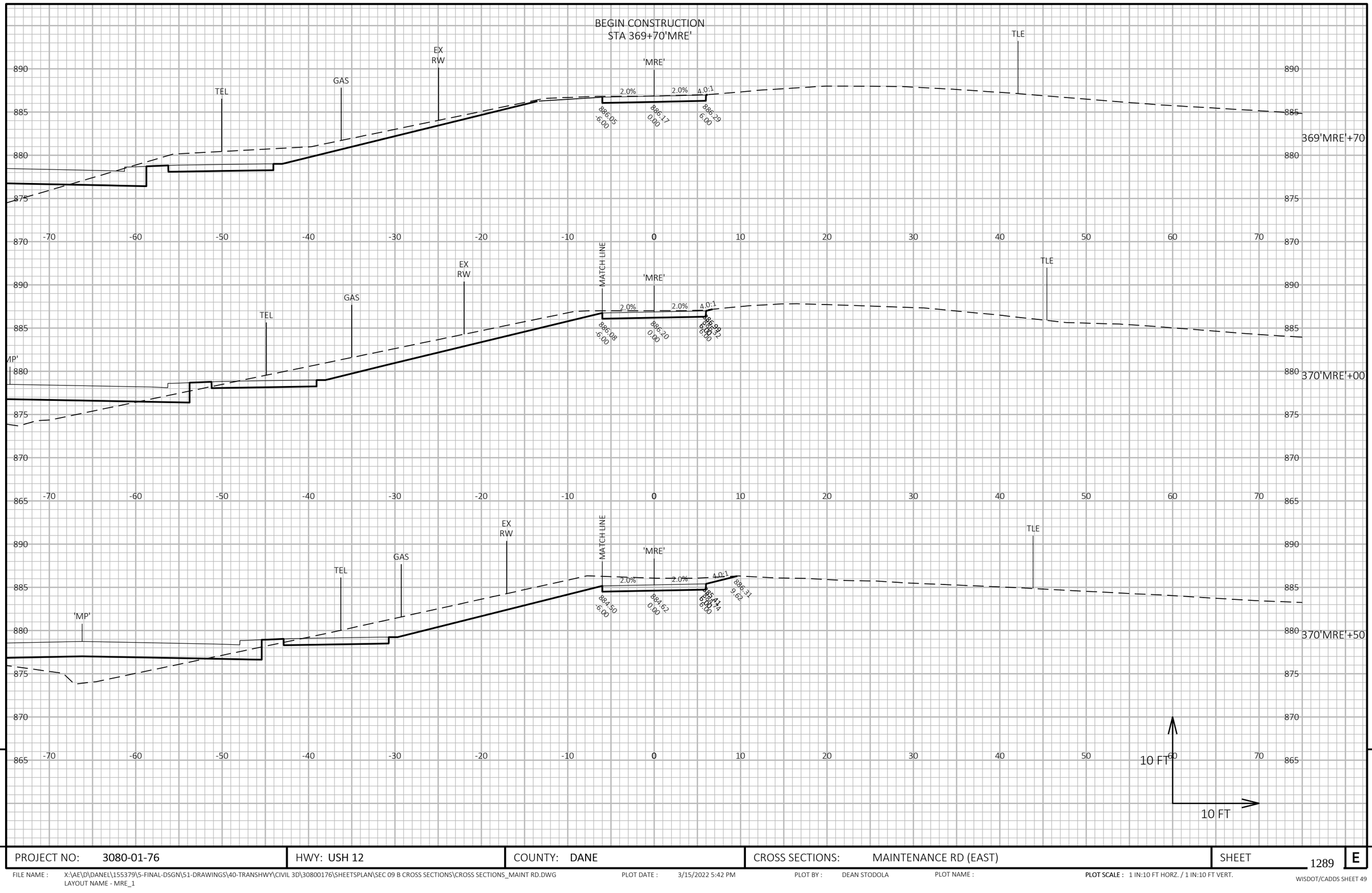
BEGIN CONSTRUCTION
STA 369+70'MRE'



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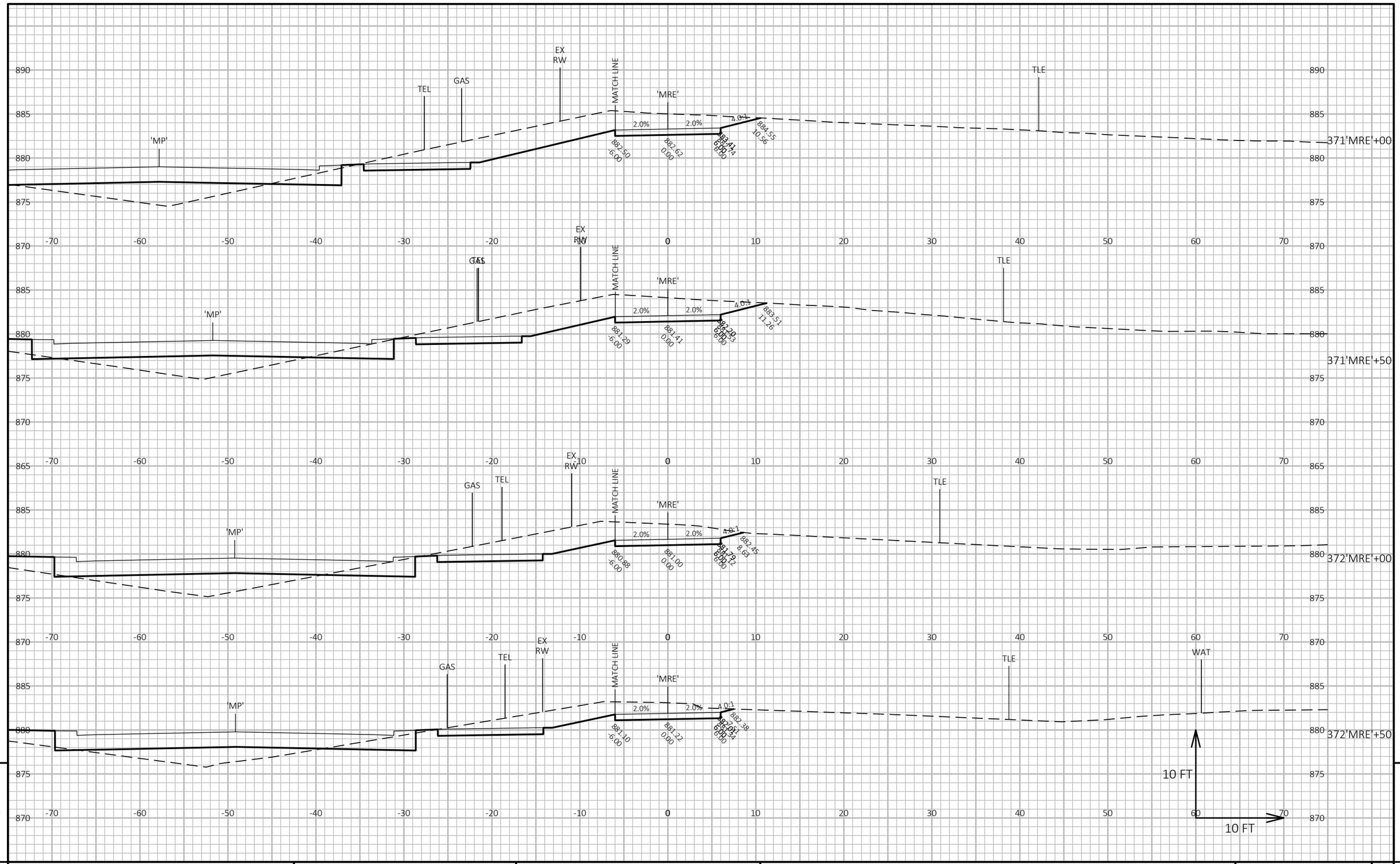
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (EAST)	SHEET 1289	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRE_1
PLOT DATE : 3/15/2022 5:42 PM
PLOT BY : DEAN STODOLA
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (EAST)	SHEET 1290	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRE_2

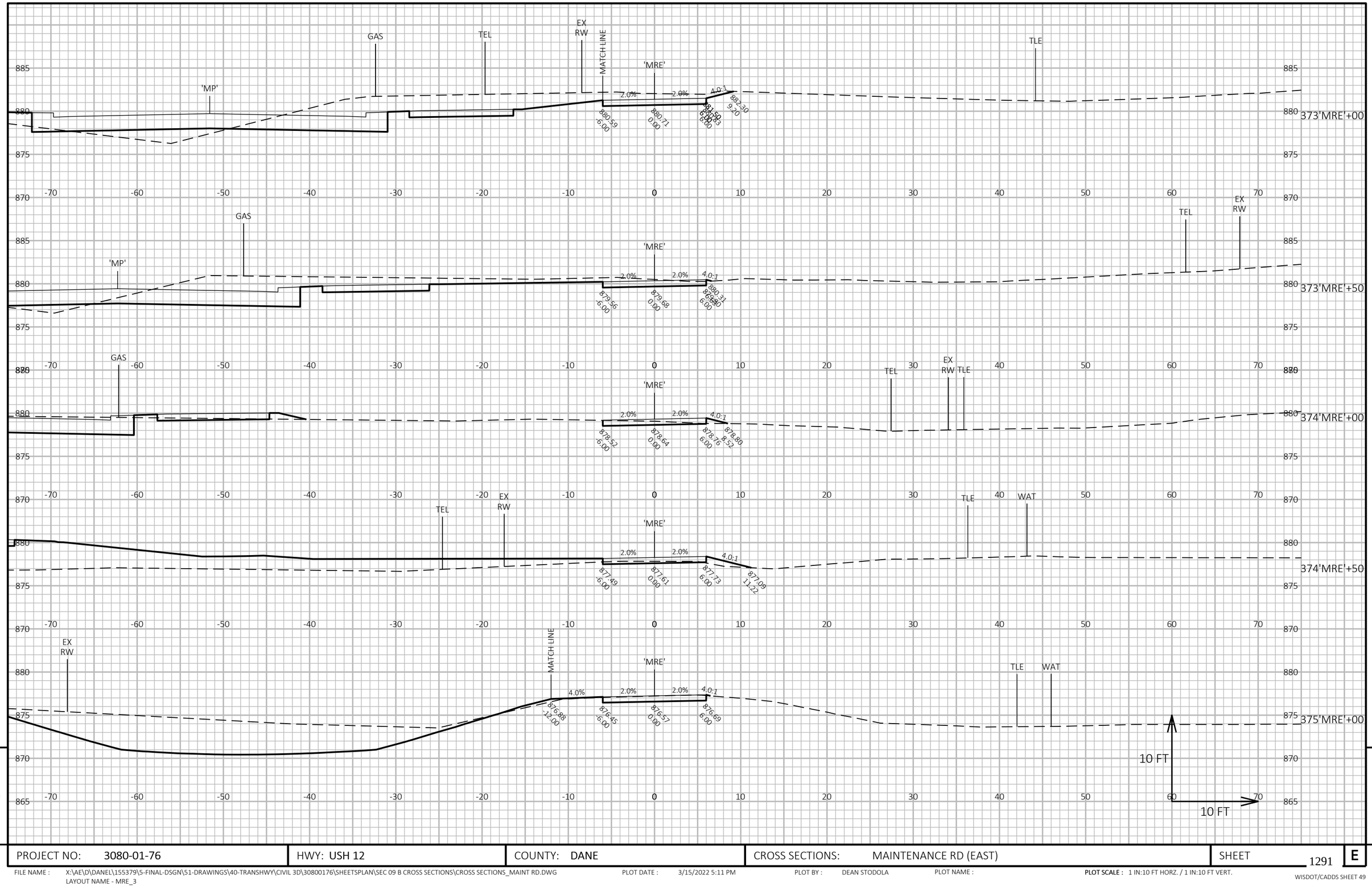
PLOT DATE : 3/15/2022 5:11 PM

PLOT BY : DEAN STODOLA

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (EAST)	SHEET 1291	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRE_3

PLOT DATE : 3/15/2022 5:11 PM PLOT BY : DEAN STODOLA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

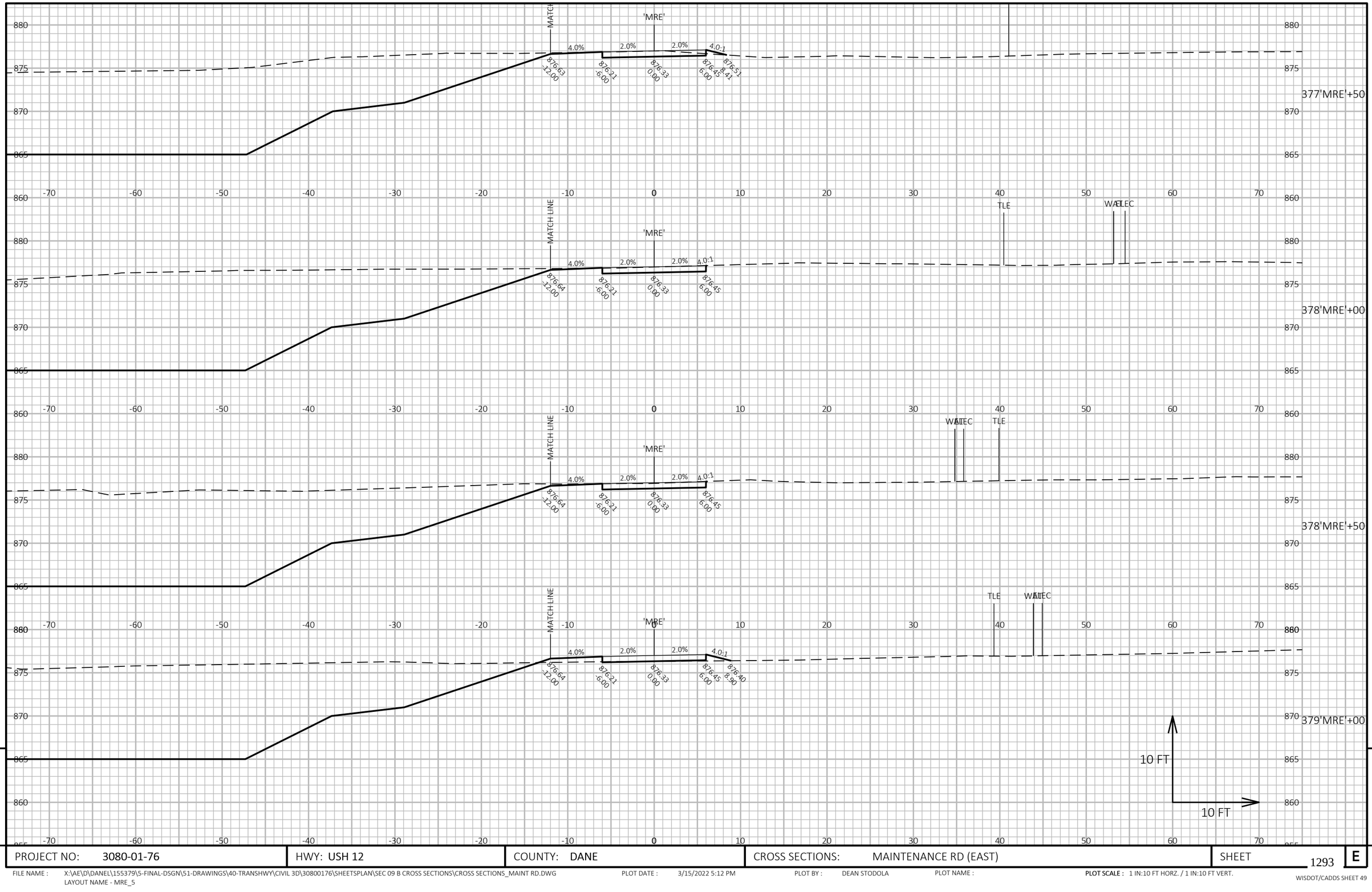
WISDOT/CADDS SHEET 49

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (EAST)	SHEET 1292	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRE_4

PLOT DATE : 3/15/2022 5:11 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

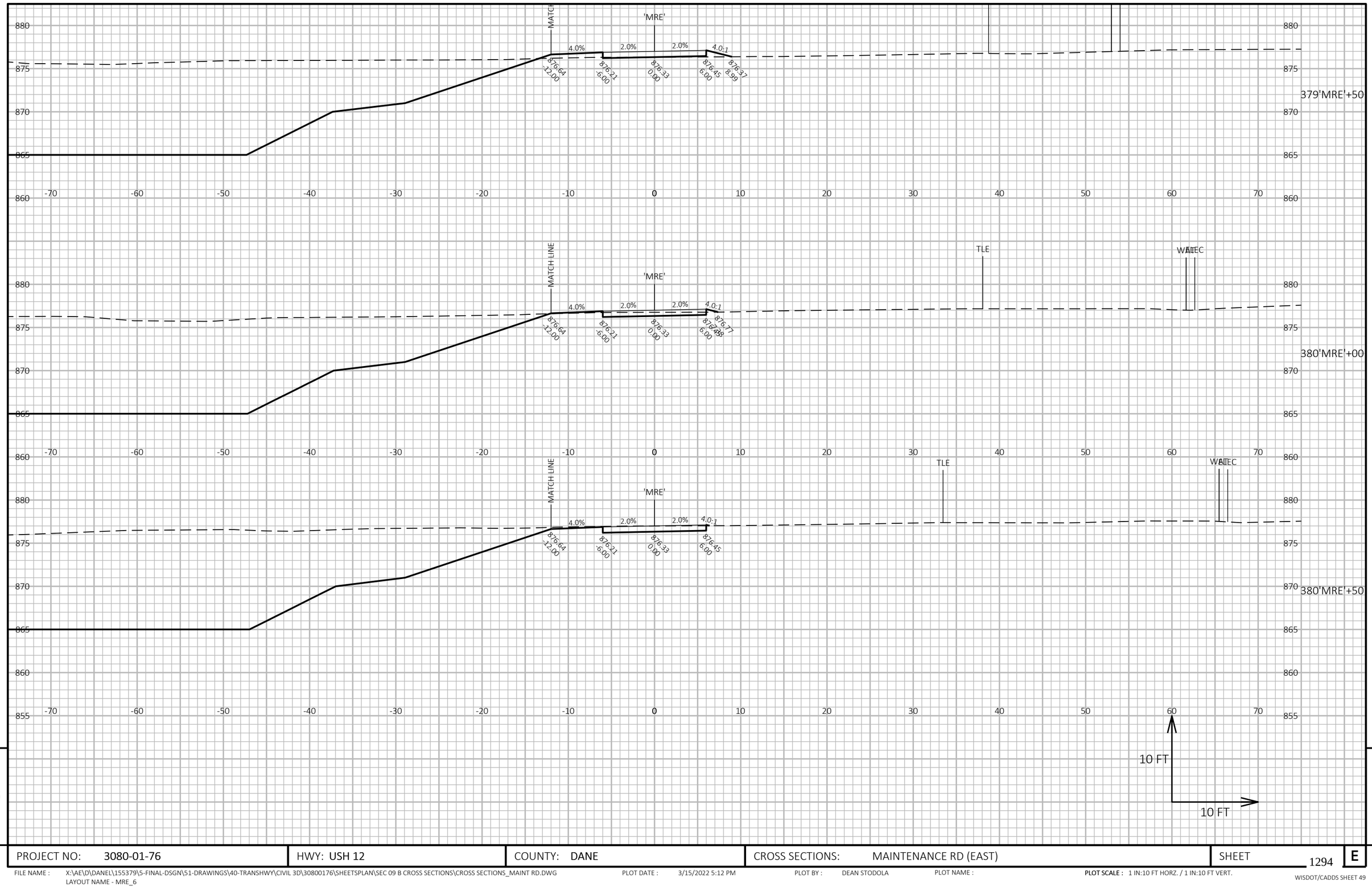


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (EAST)	SHEET 1293 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRE_5

PLOT DATE : 3/15/2022 5:12 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

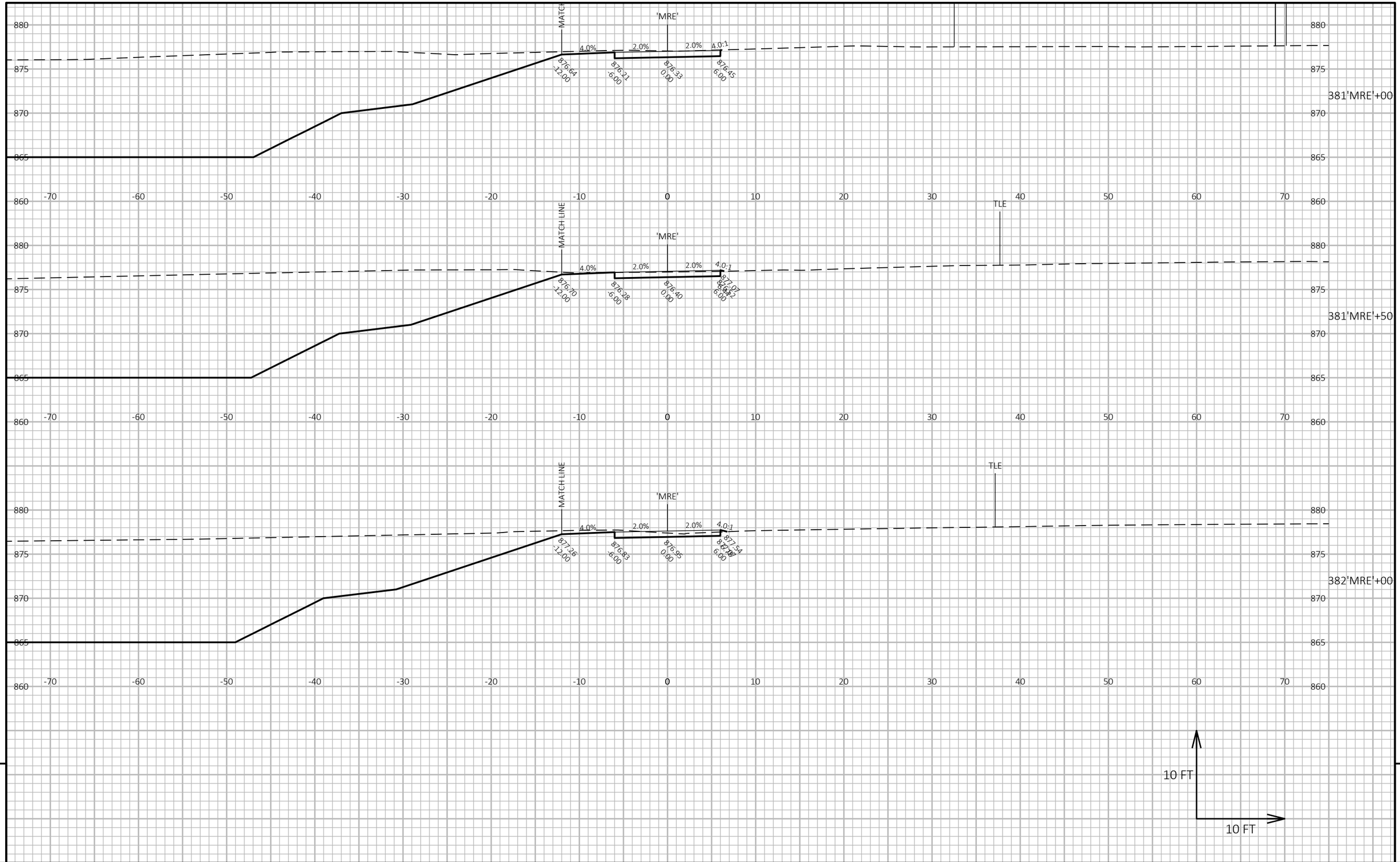


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (EAST)	SHEET 1294	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRE_6

PLOT DATE : 3/15/2022 5:12 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (EAST)	SHEET 1295	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRE_7

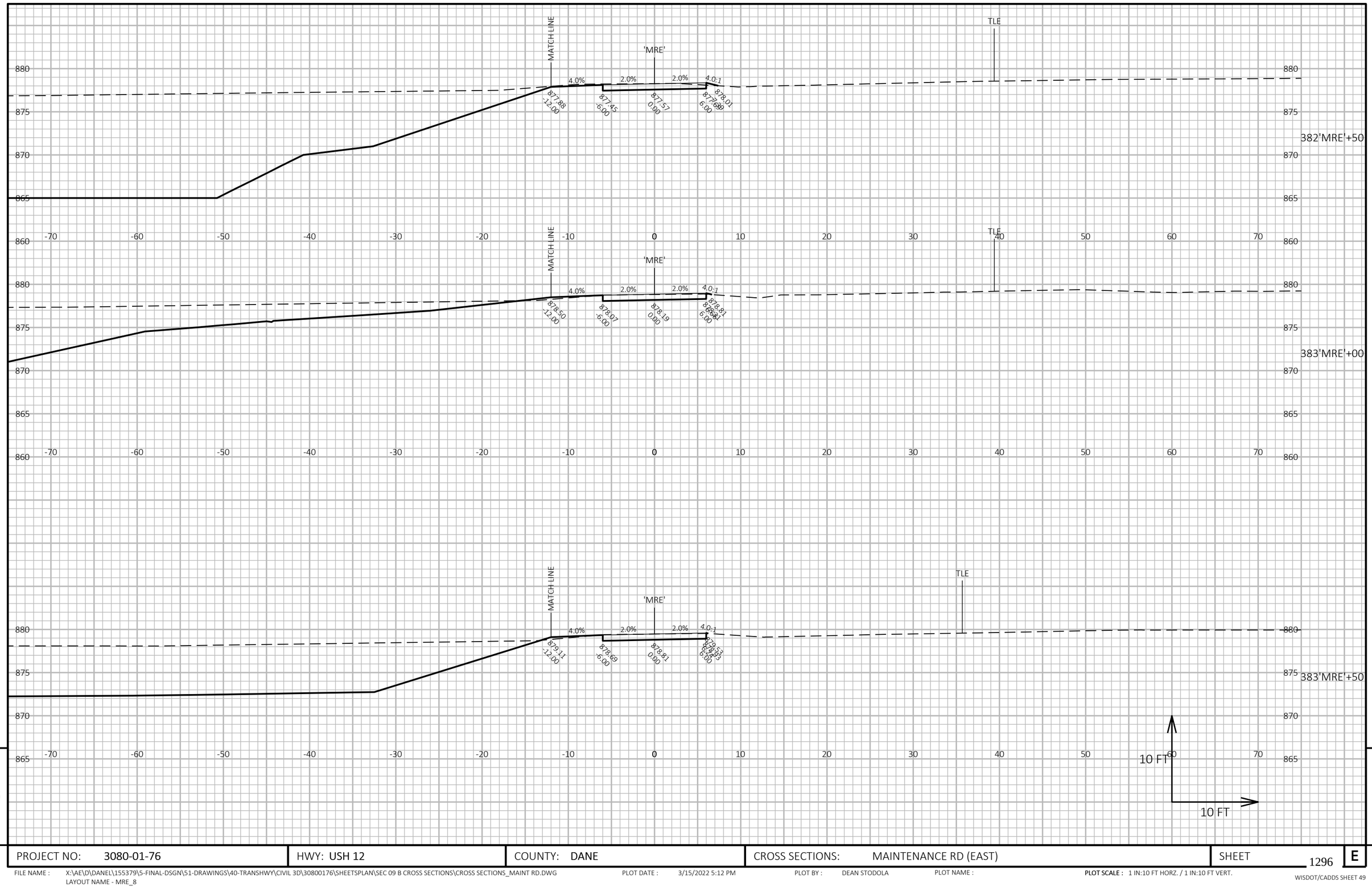
PLOT DATE : 3/15/2022 5:12 PM

PLOT BY : DEAN STODOLA

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

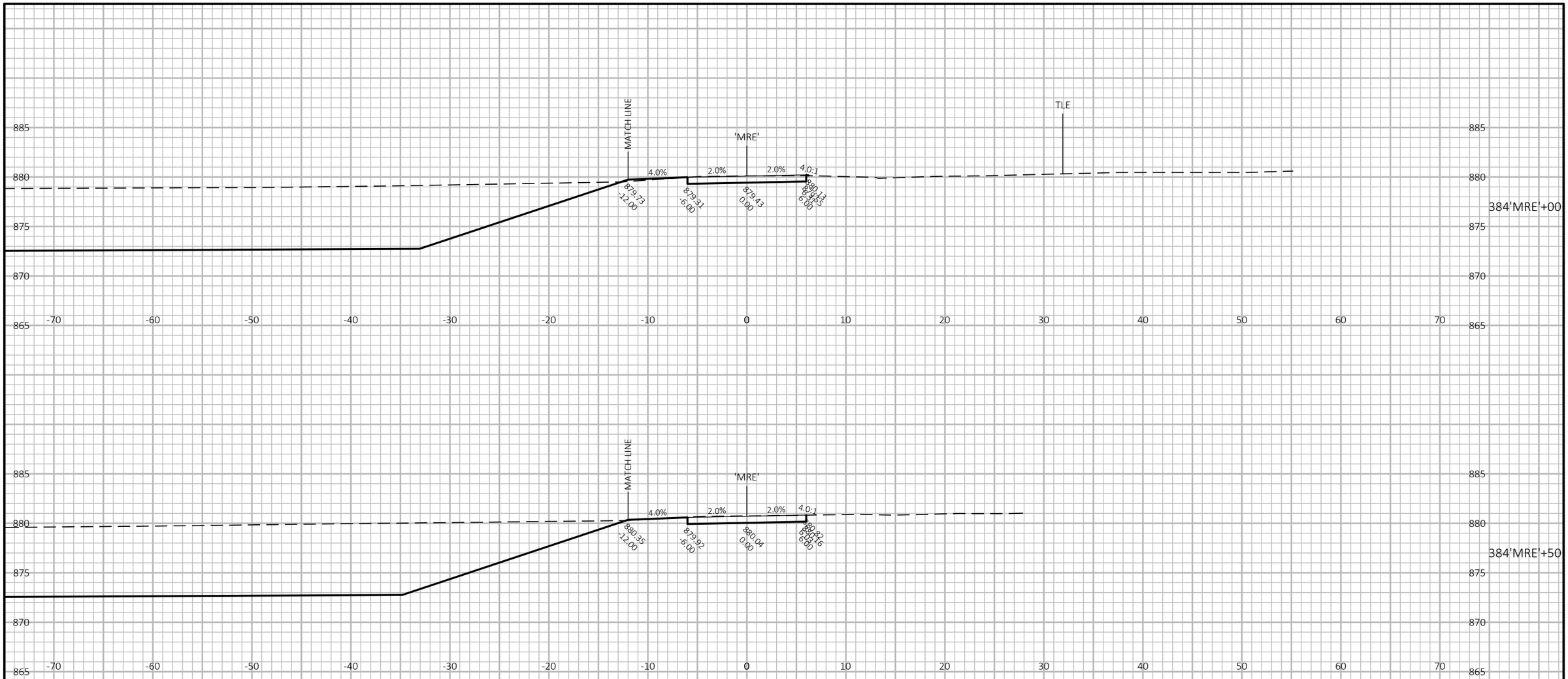


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (EAST)	SHEET 1296	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRE_8

PLOT DATE : 3/15/2022 5:12 PM PLOT BY : DEAN STODOLA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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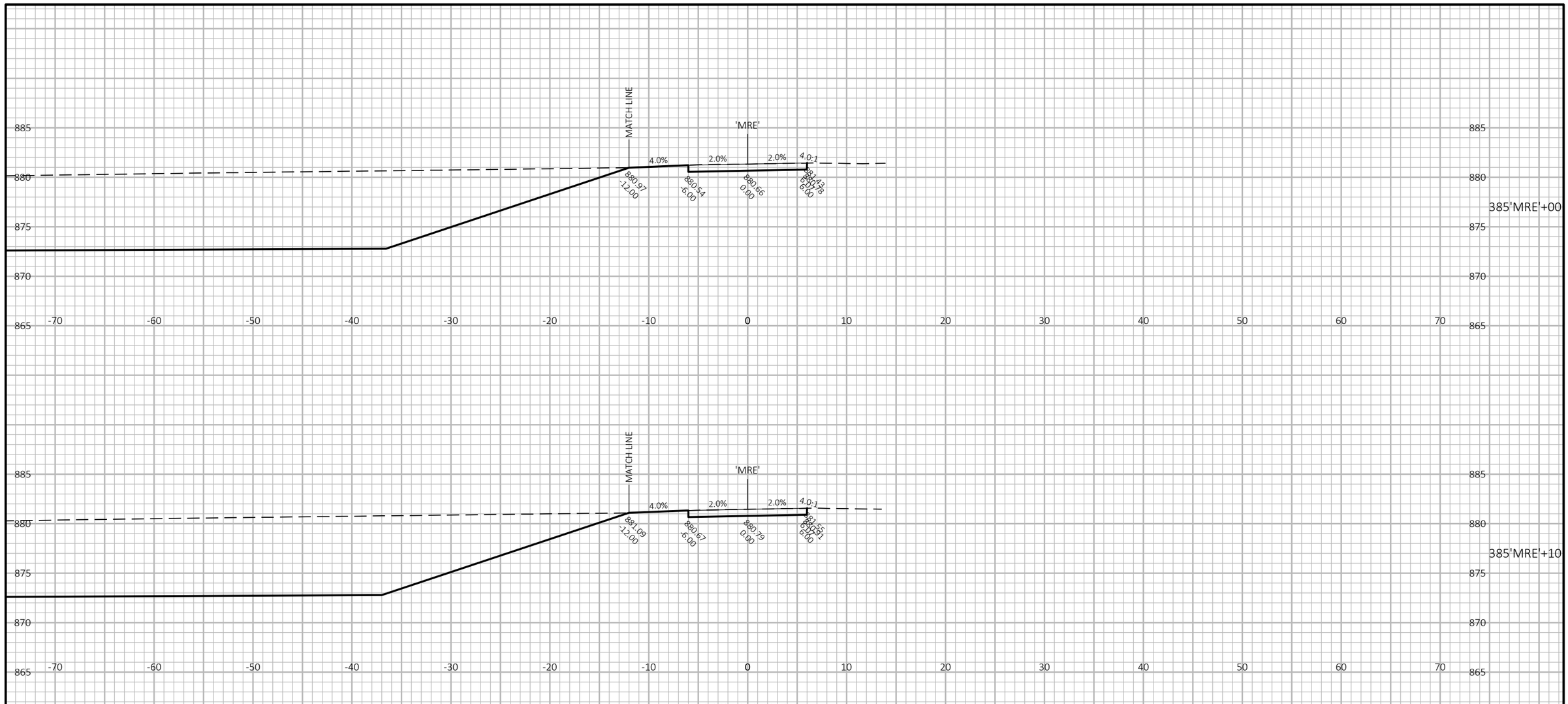
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (EAST)	SHEET 1297	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRE_9

PLOT DATE : 3/15/2022 5:13 PM PLOT BY : DEAN STODOLA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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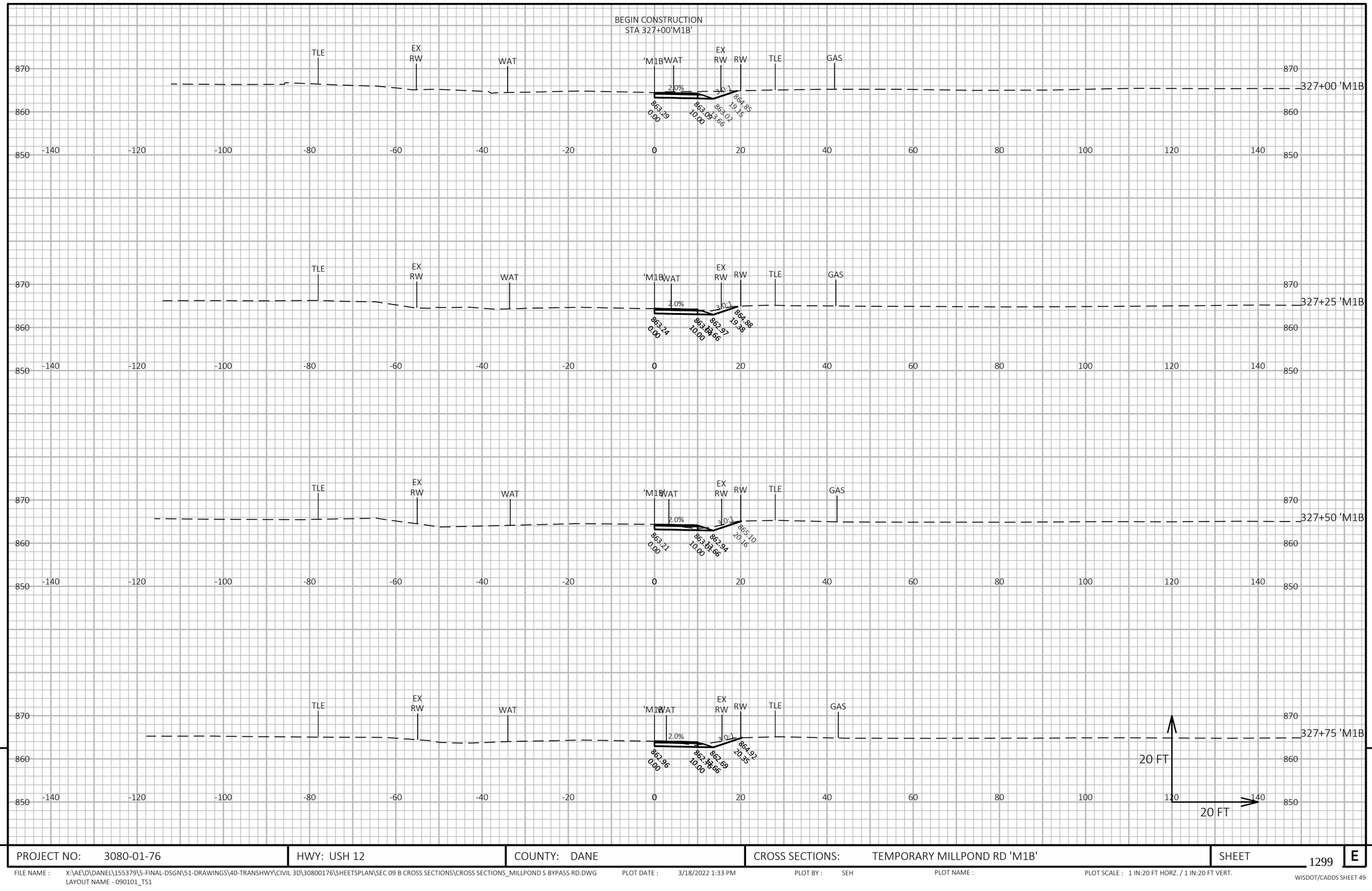
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MAINTENANCE RD (EAST)	SHEET 1298	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MAINT RD.DWG
LAYOUT NAME - MRE_9

PLOT DATE : 3/15/2022 5:16 PM PLOT BY : DEAN STODOLA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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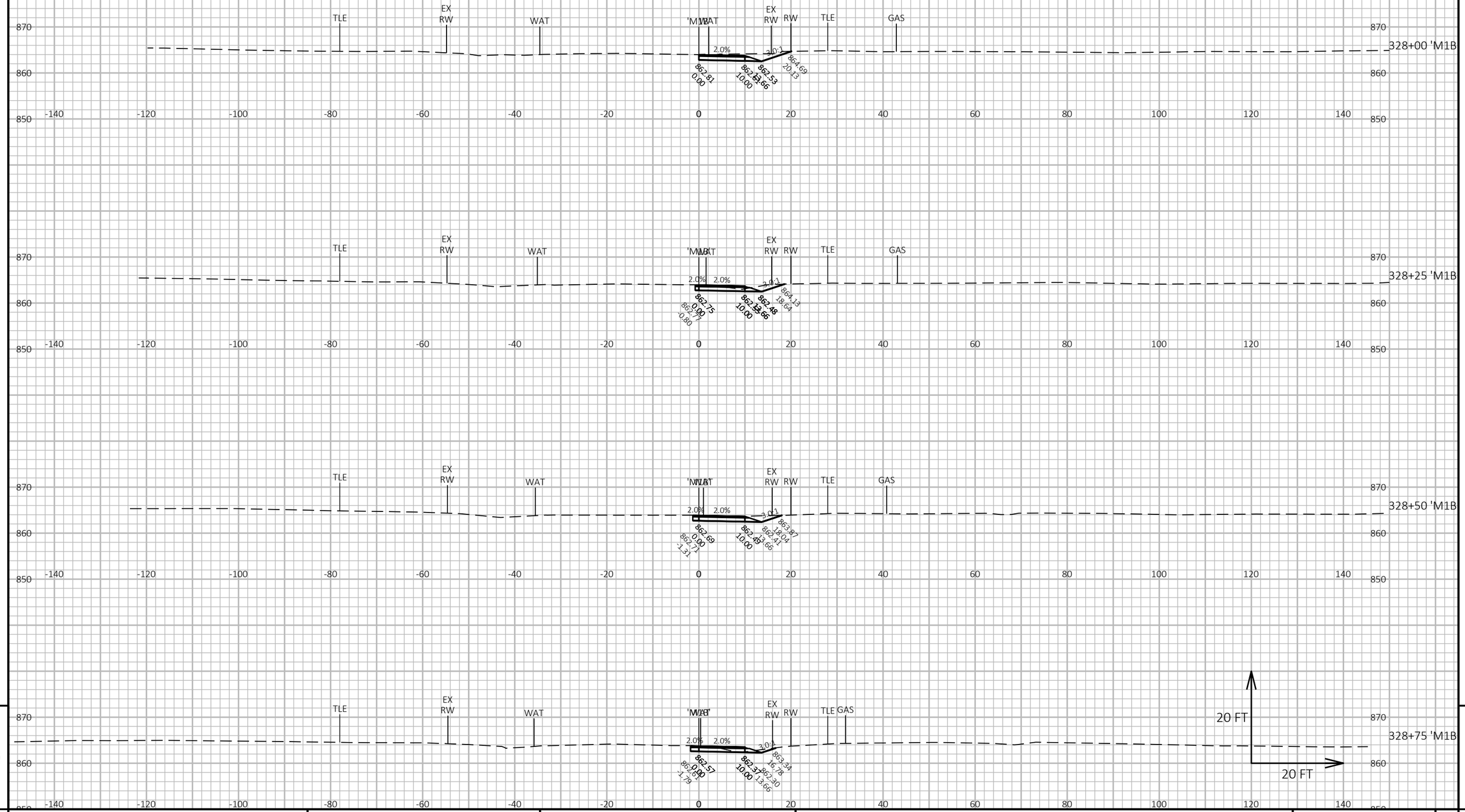
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1299	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 090101_TS1

PLOT DATE : 3/18/2022 1:33 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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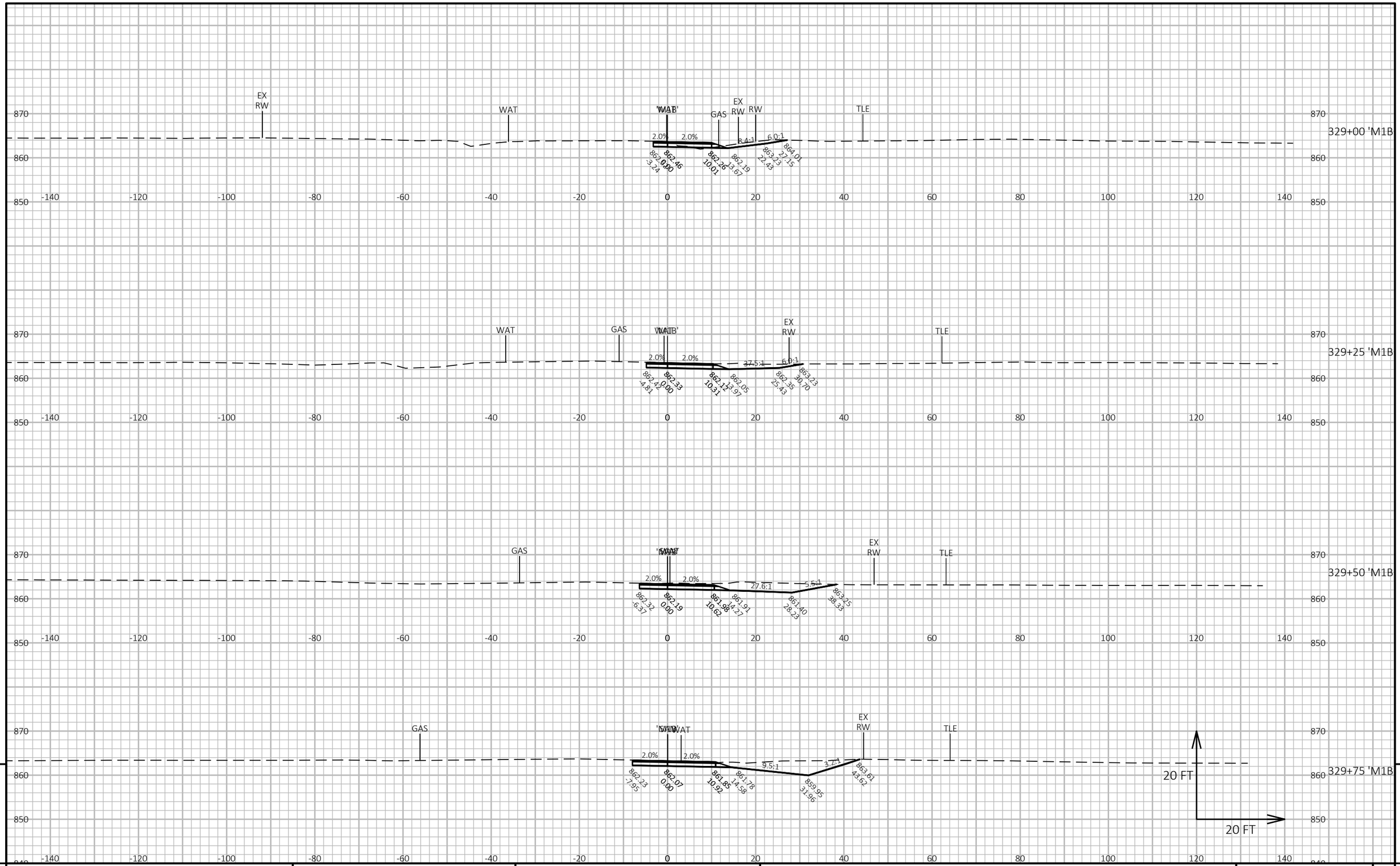
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1300	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 090102_TS1
PLOT DATE : 3/18/2022 1:33 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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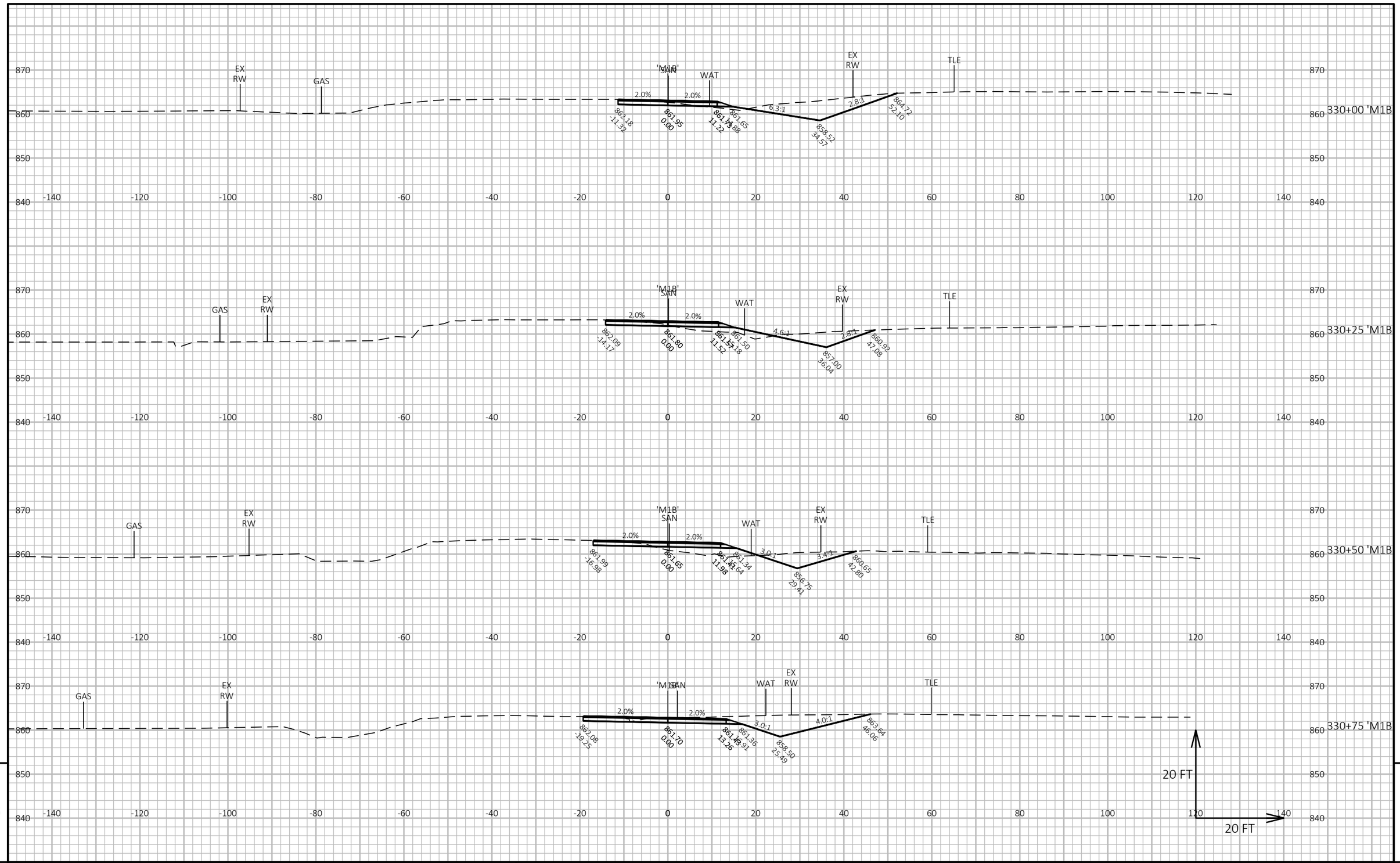
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1301	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 090103_TS1
PLOT DATE : 3/18/2022 1:33 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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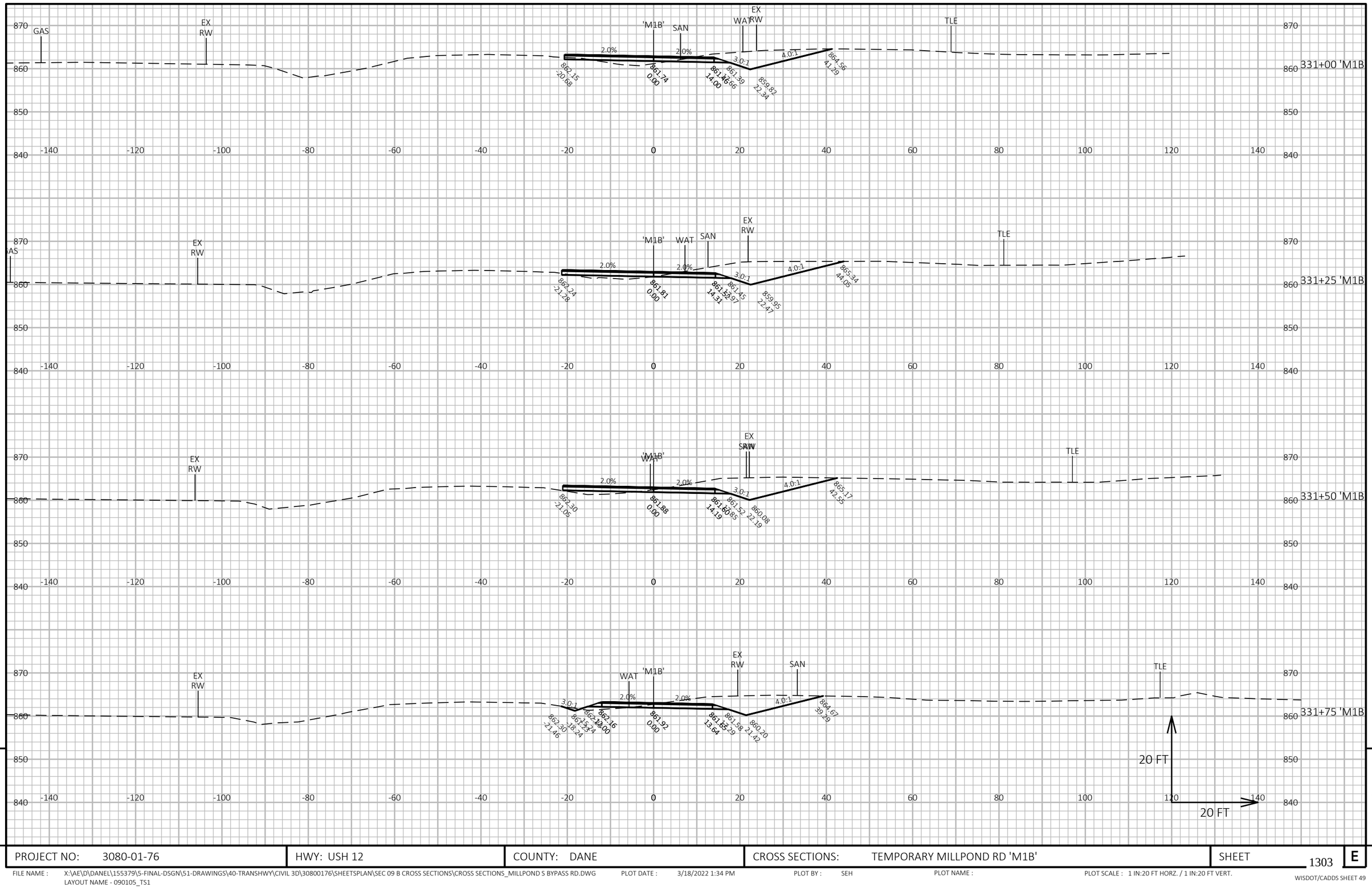
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1302	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 090104_TS1

PLOT DATE : 3/18/2022 1:34 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



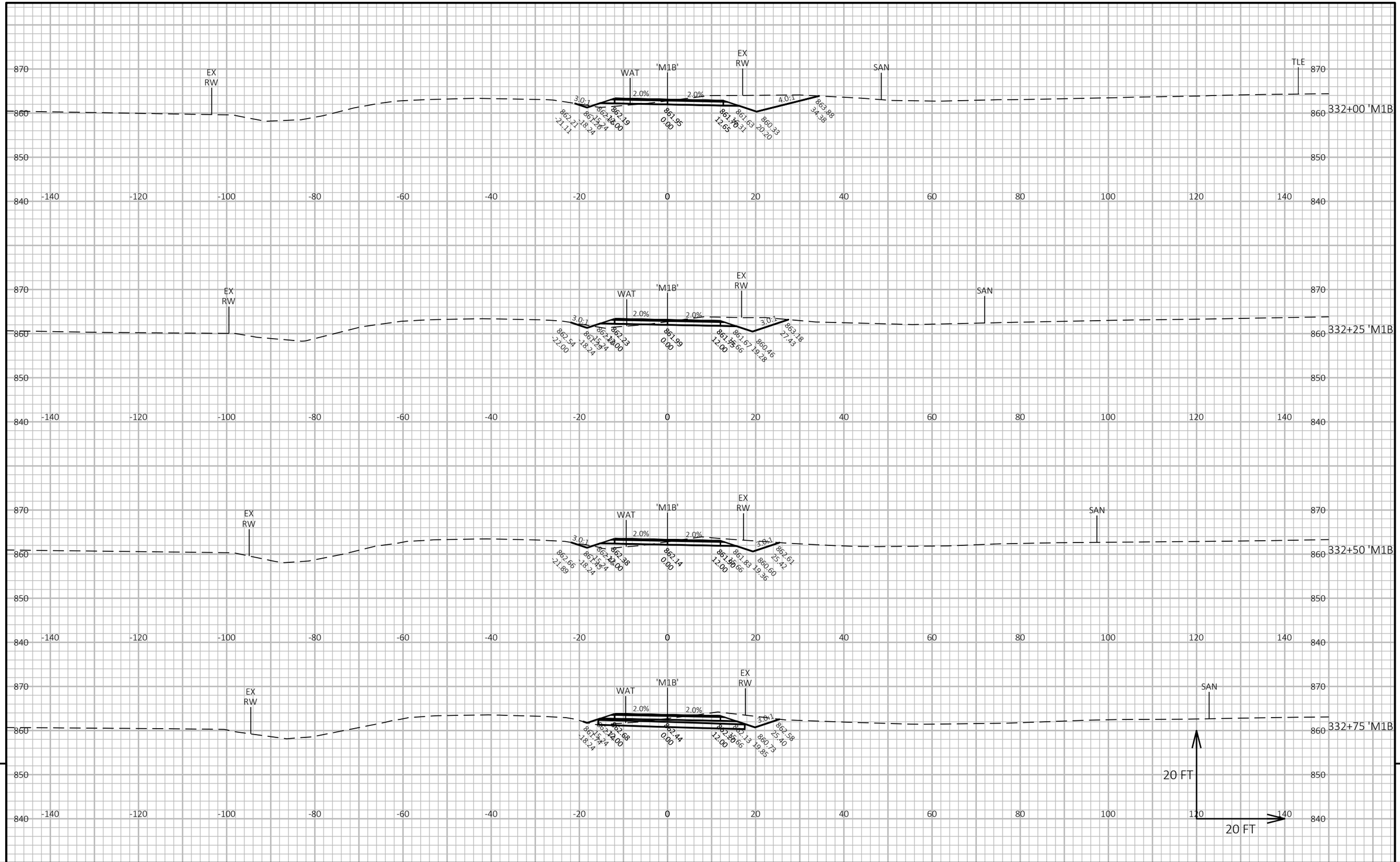
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1303	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 090105_TS1

PLOT DATE : 3/18/2022 1:34 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

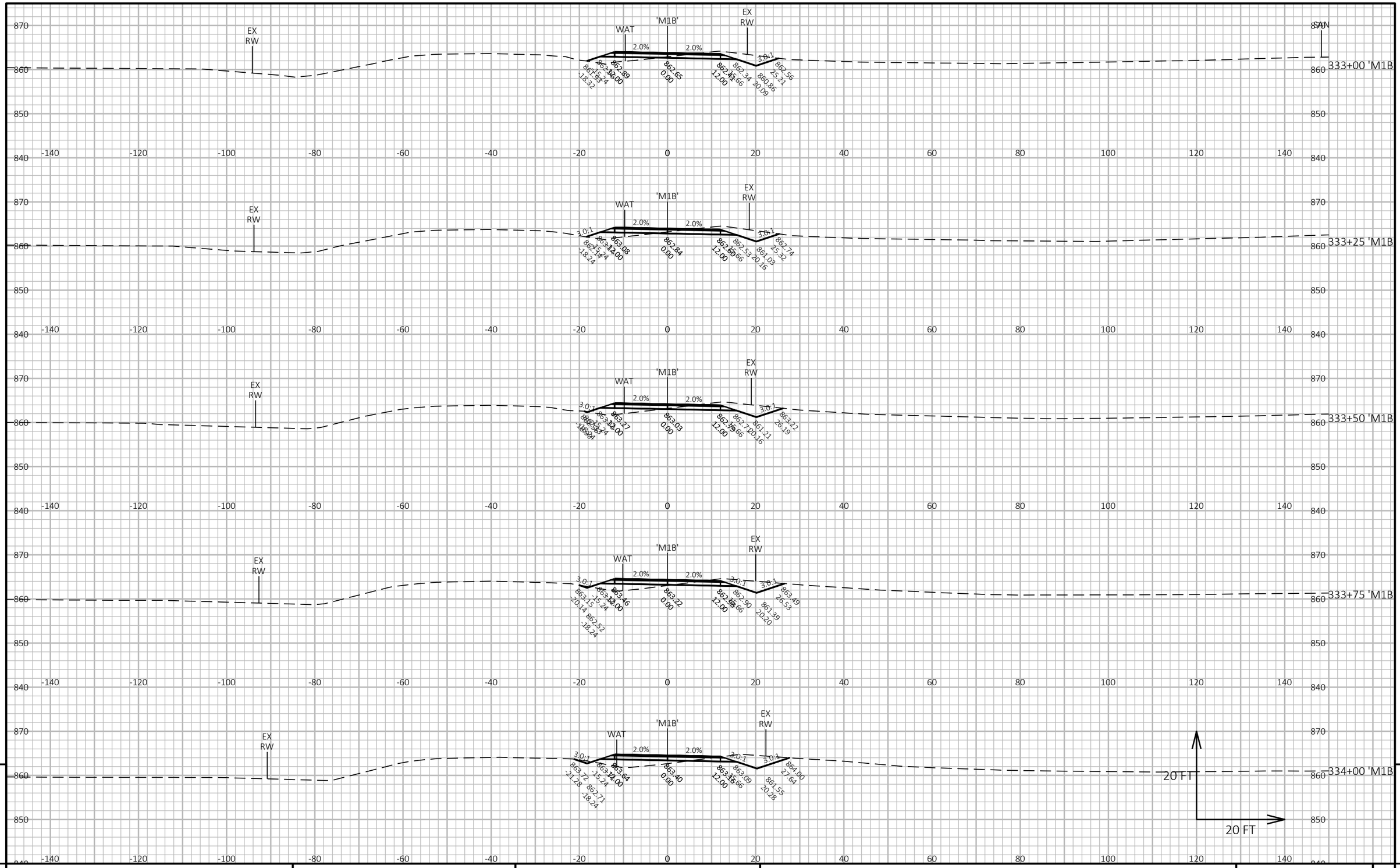
WISDOT/CADDS SHEET 49

9 9



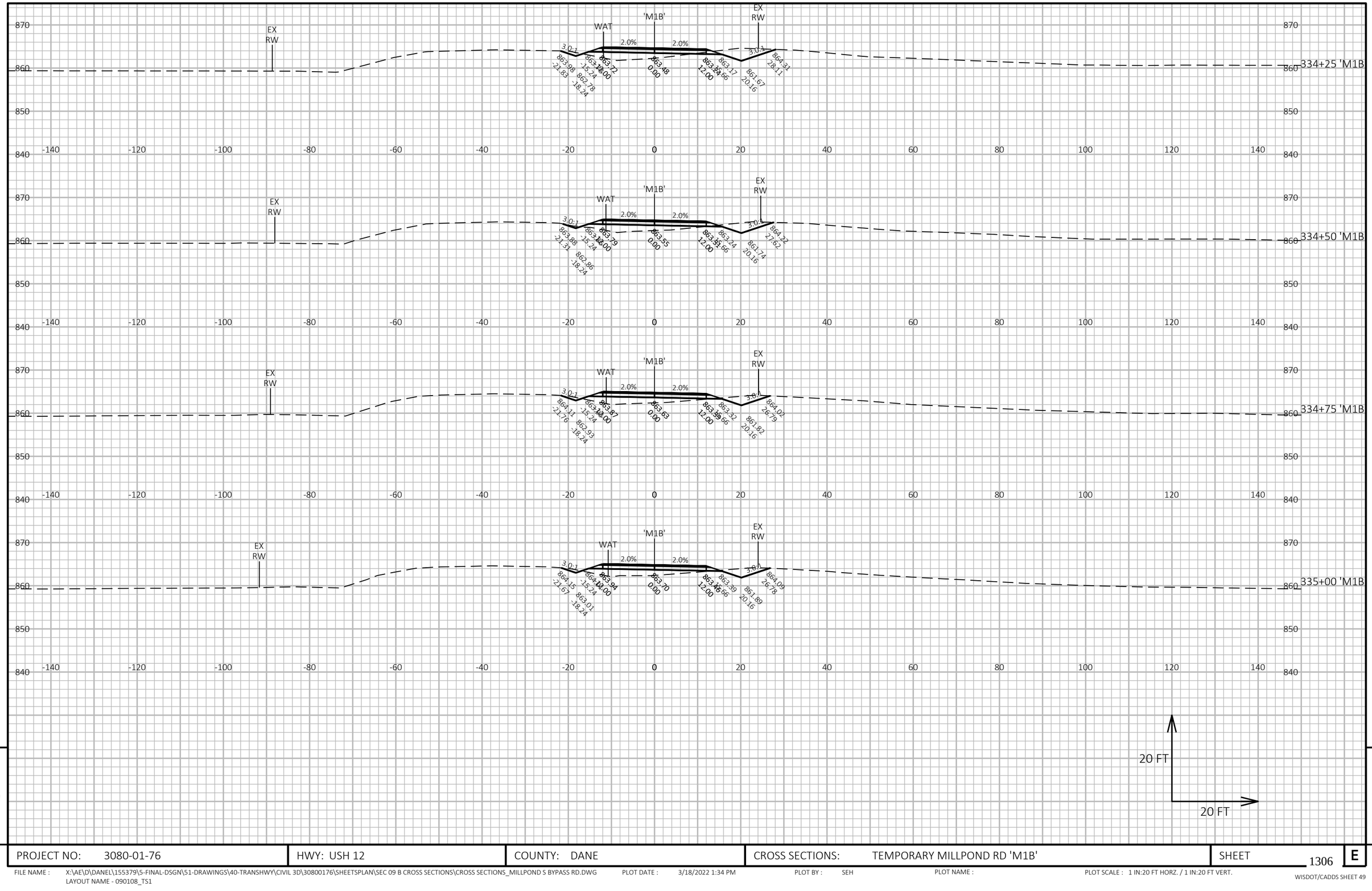
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1304	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 090106_TS1
PLOT DATE : 3/18/2022 1:34 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



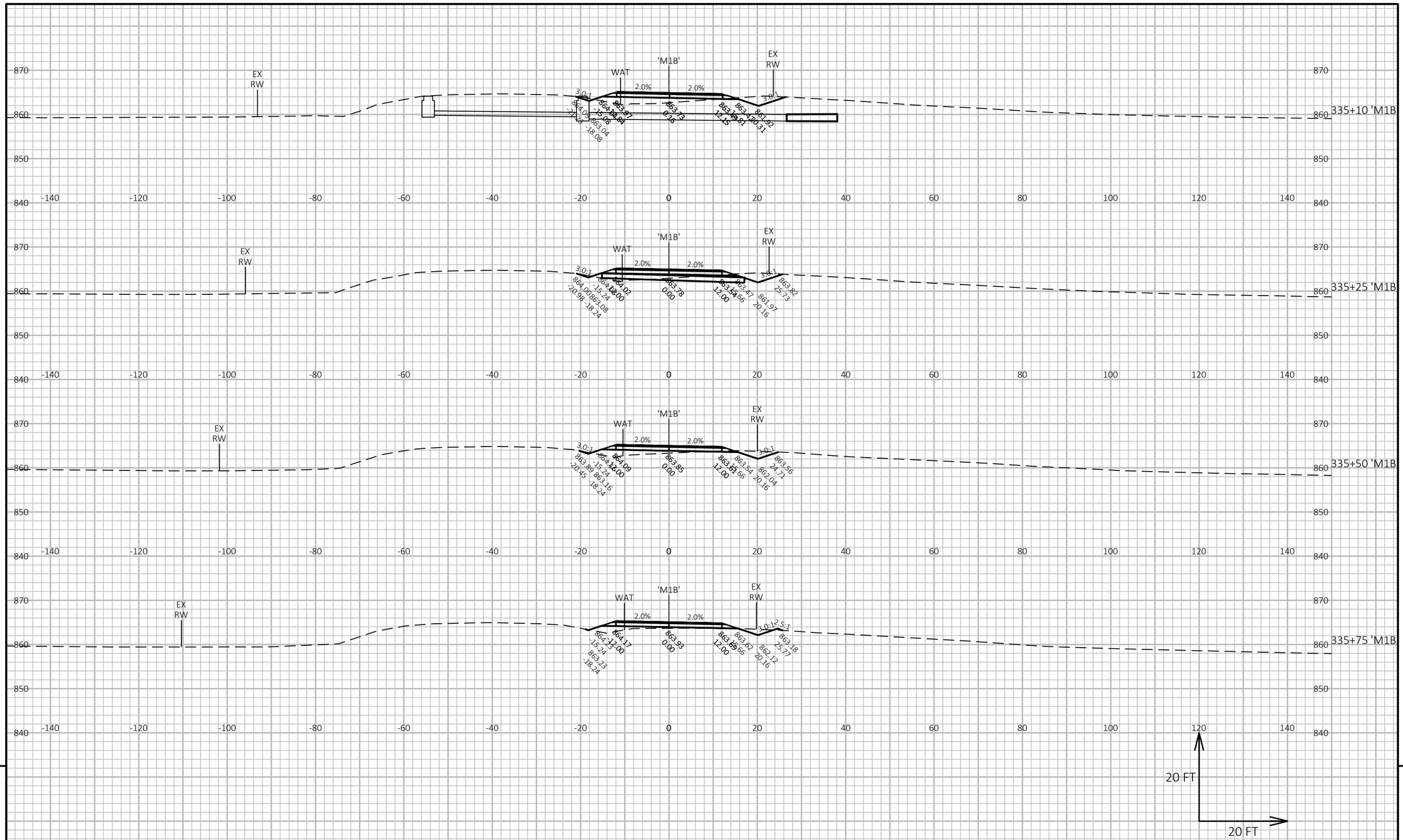
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1305 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 090107_TS1
PLOT DATE : 3/18/2022 1:34 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



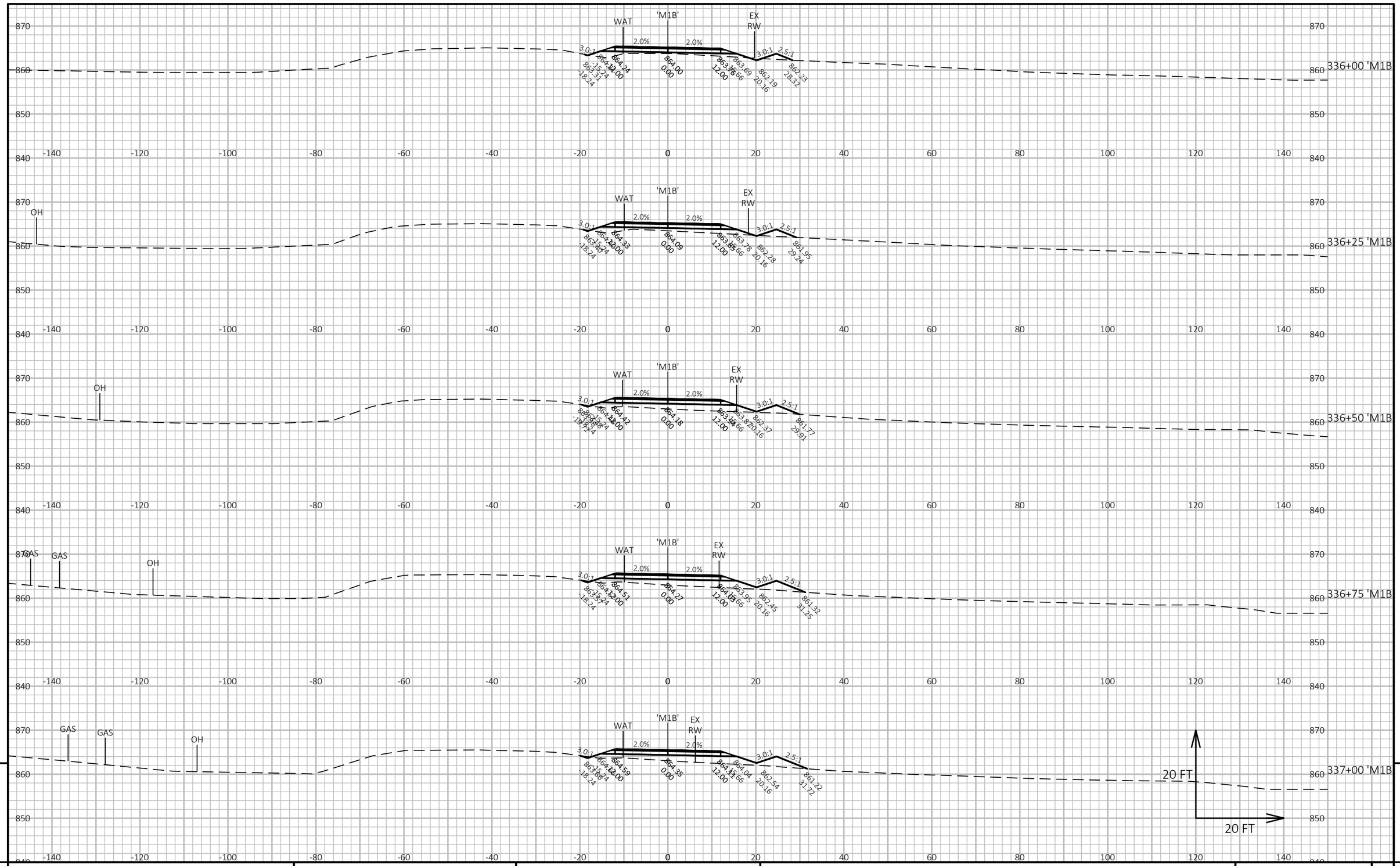
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1306	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 090108_TS1
PLOT DATE : 3/18/2022 1:34 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



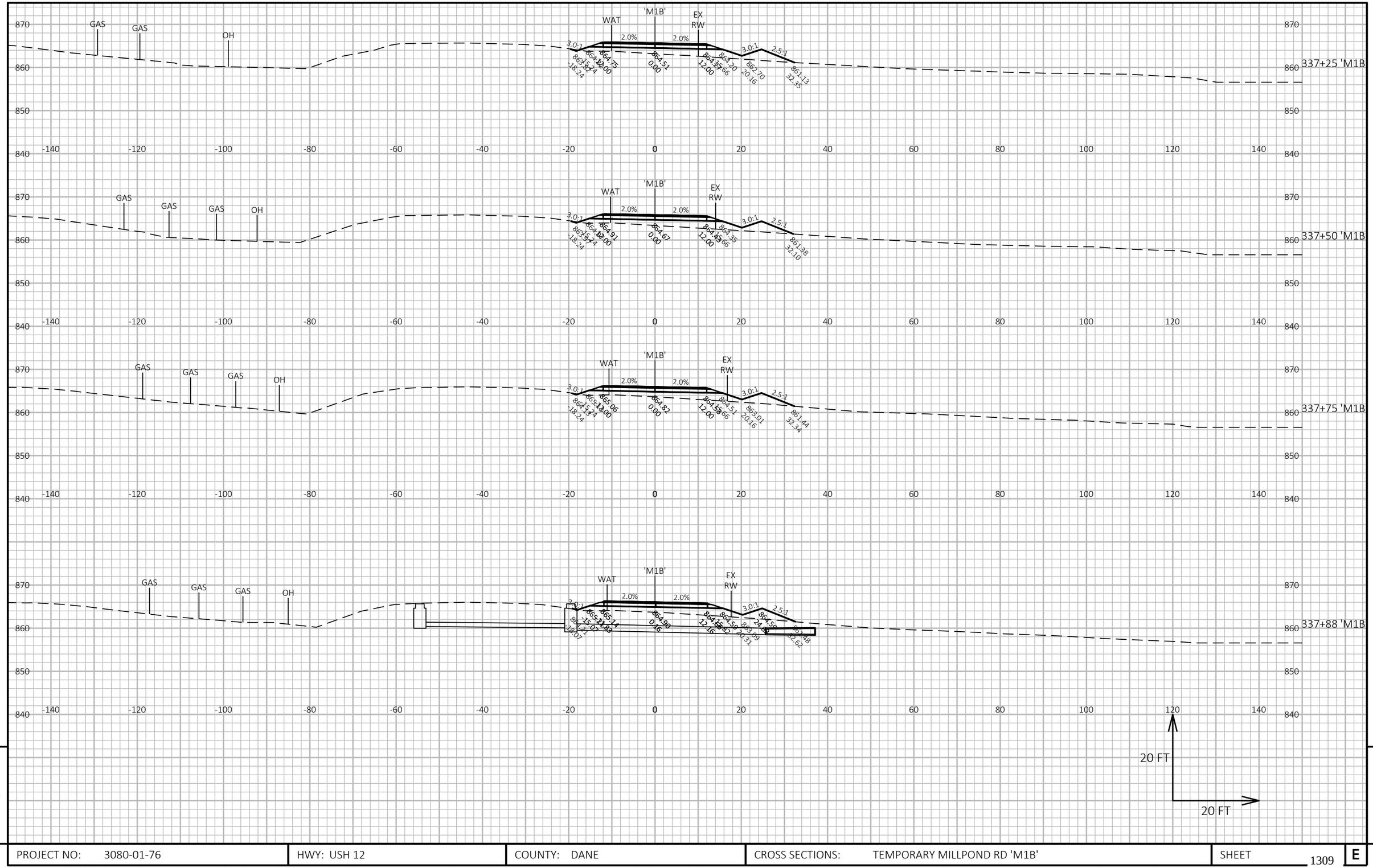
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1307	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 090109_TS1
PLOT DATE : 3/18/2022 1:34 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1308	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 0901010_TS1
PLOT DATE : 3/18/2022 1:34 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49

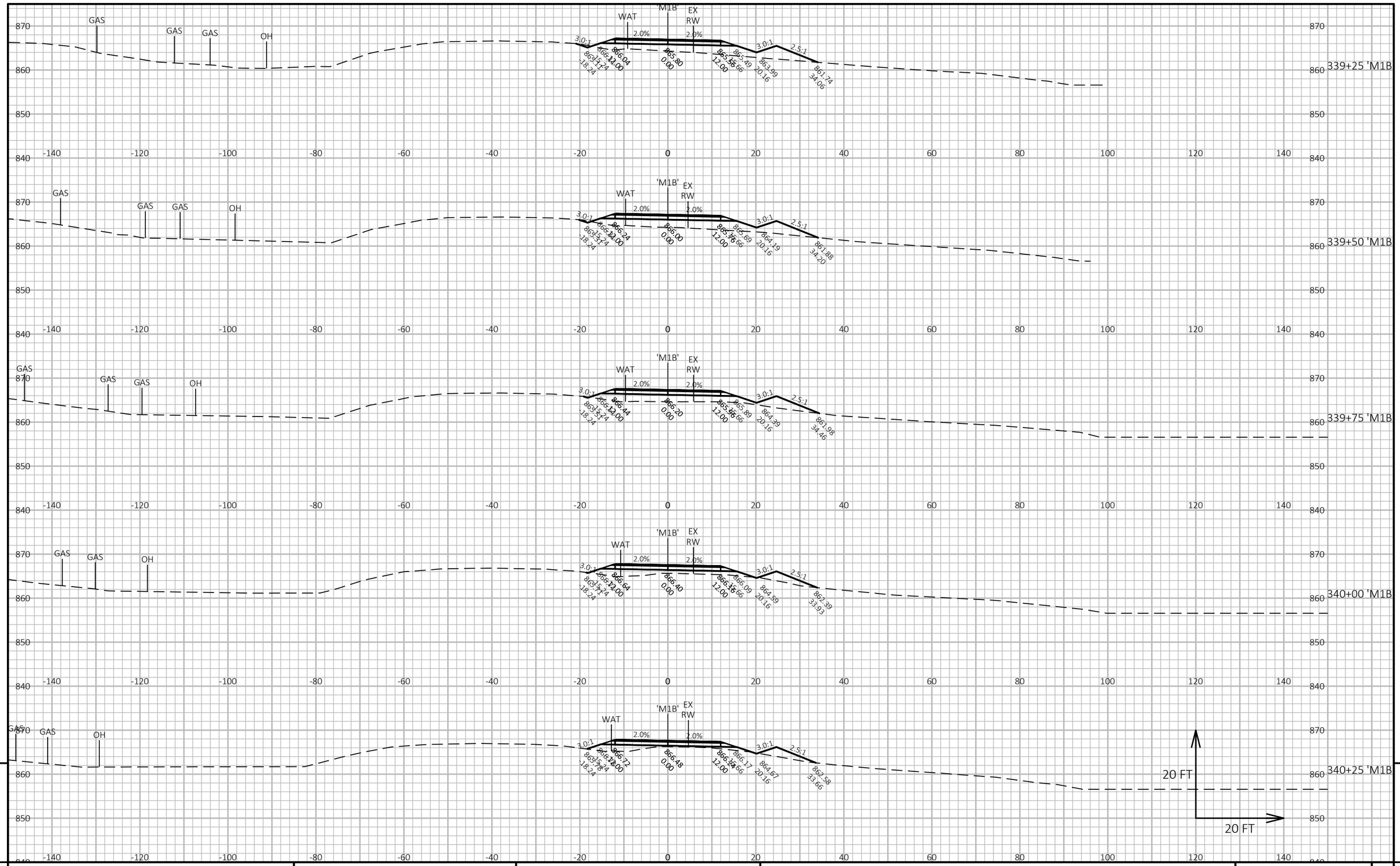


PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1309	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 0901011_TS1
PLOT DATE : 3/18/2022 1:35 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1310	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 0901012_TS1
PLOT DATE : 3/18/2022 1:35 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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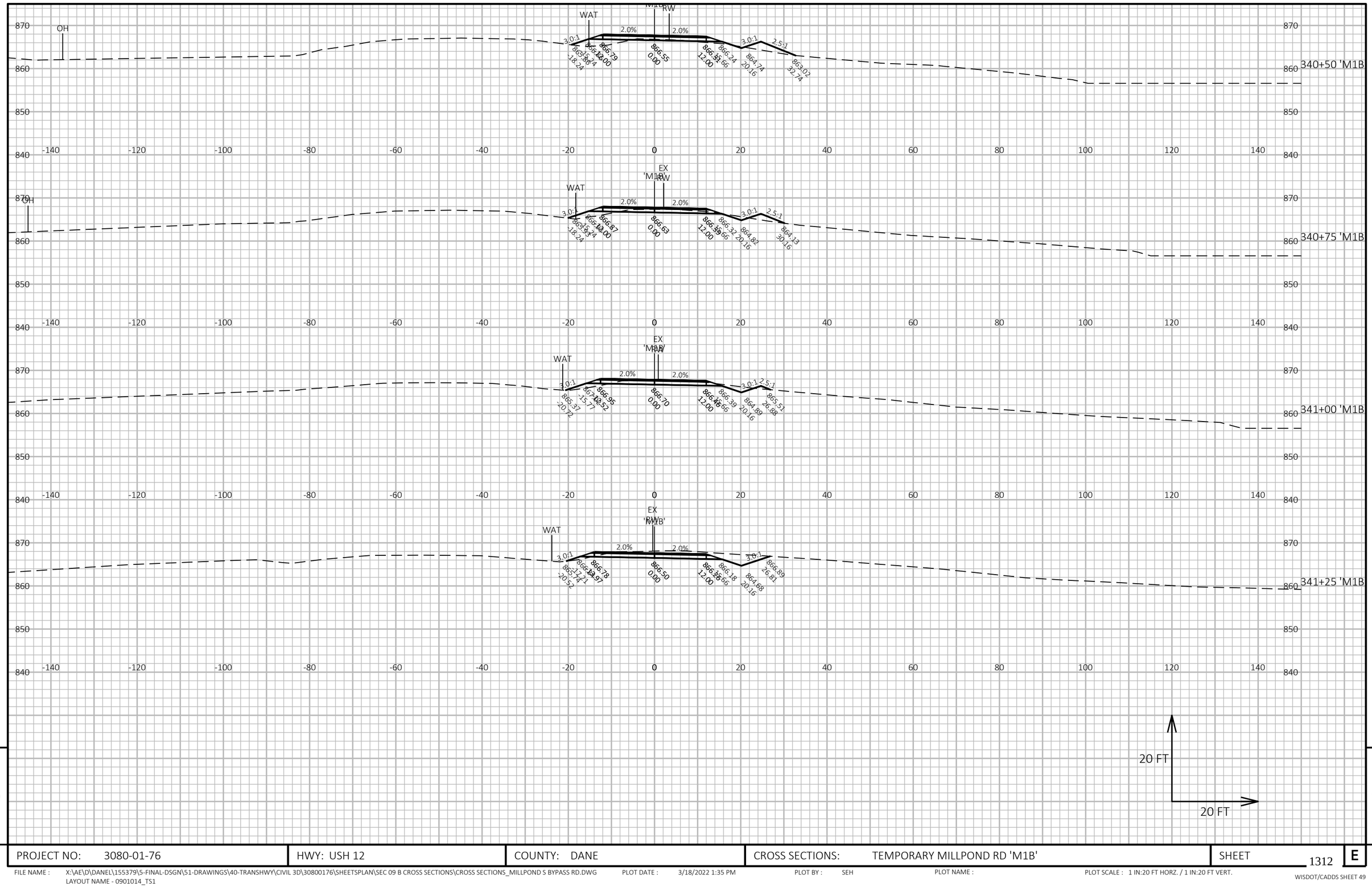
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1311	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 0901013_TS1

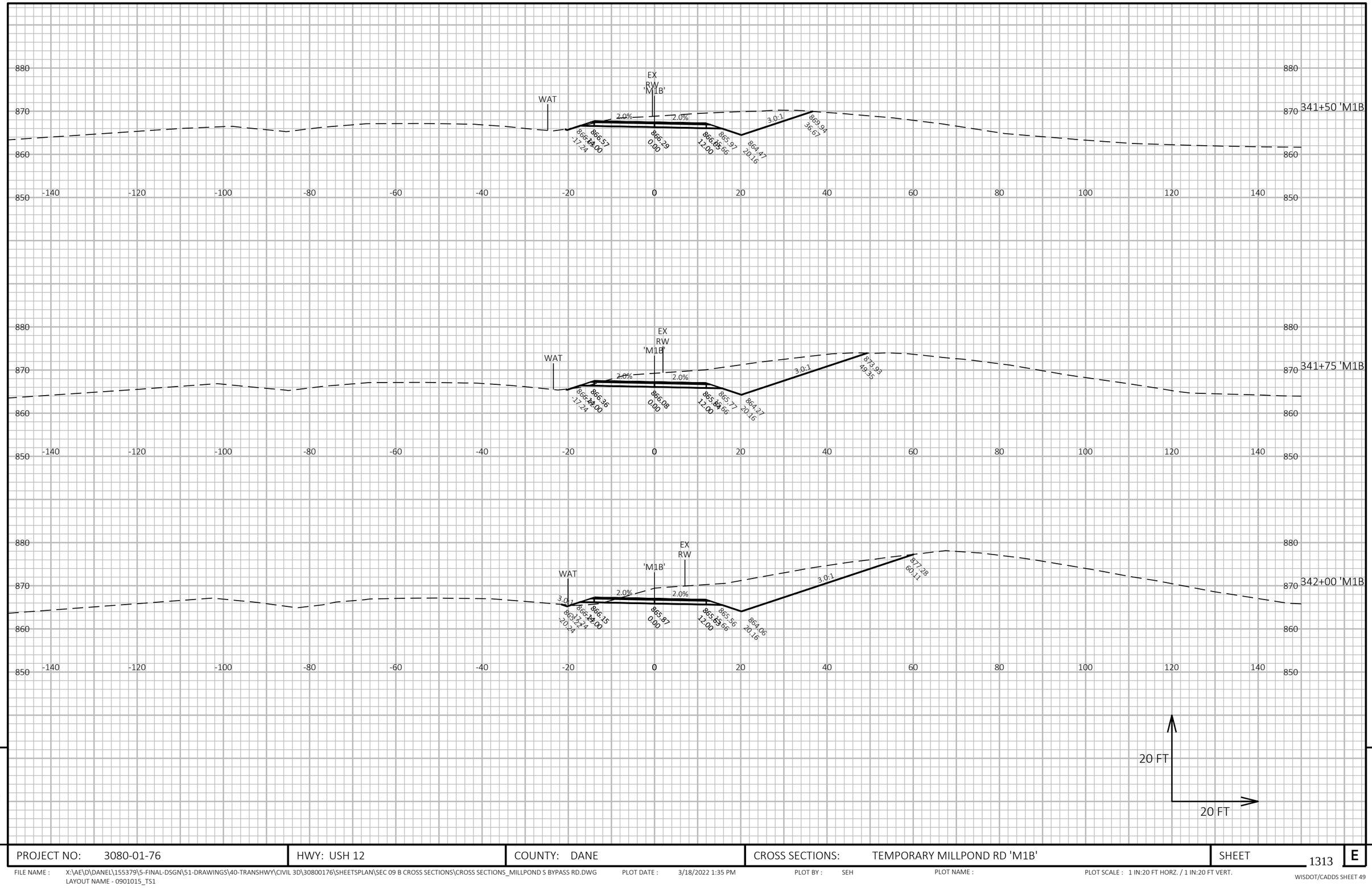
PLOT DATE : 3/18/2022 1:35 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1312	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 0901014_TS1
PLOT DATE : 3/18/2022 1:35 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



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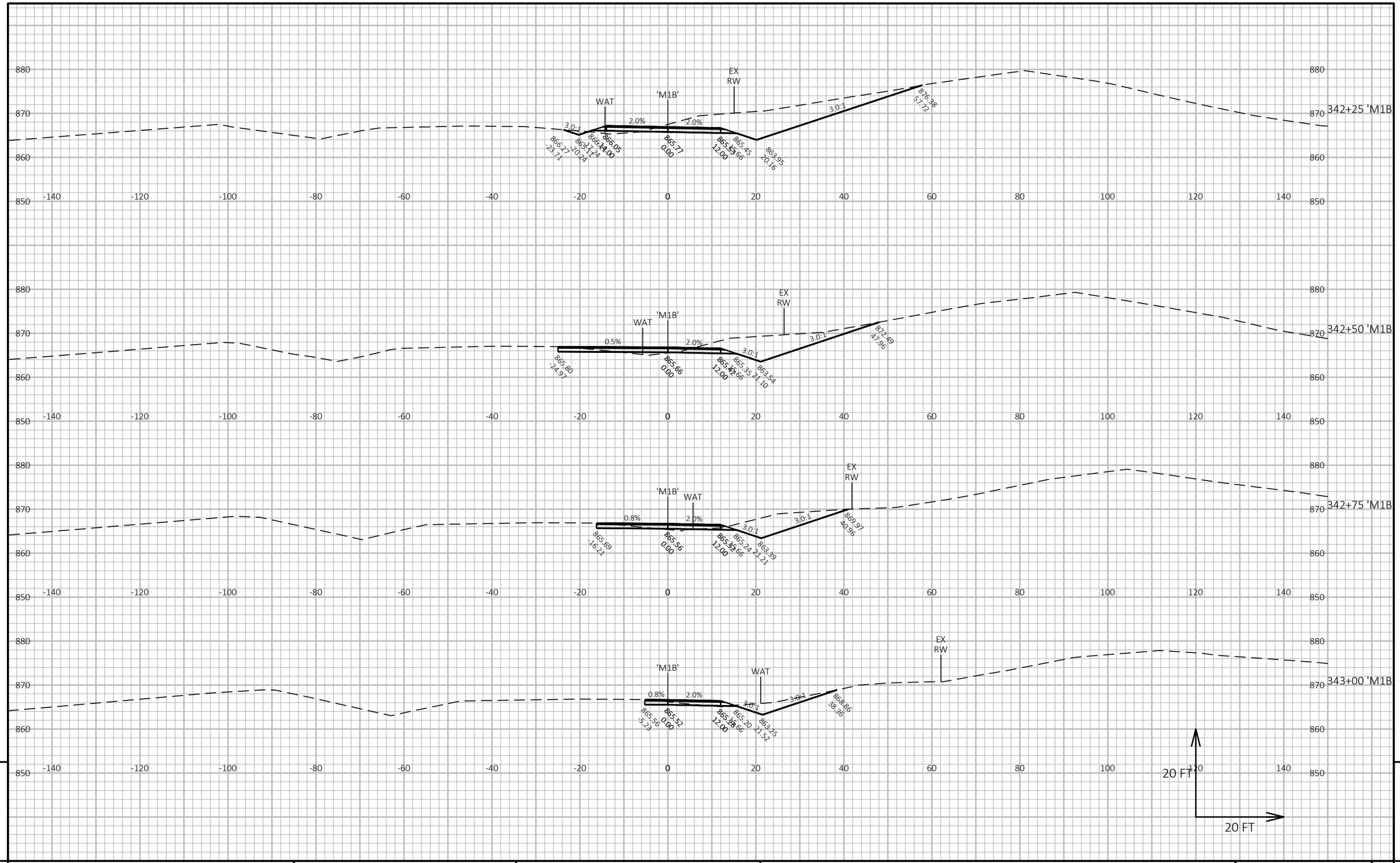
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1313	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 0901015_TS1
PLOT DATE : 3/18/2022 1:35 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1314	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 0901016_TS1

PLOT DATE : 3/18/2022 1:35 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

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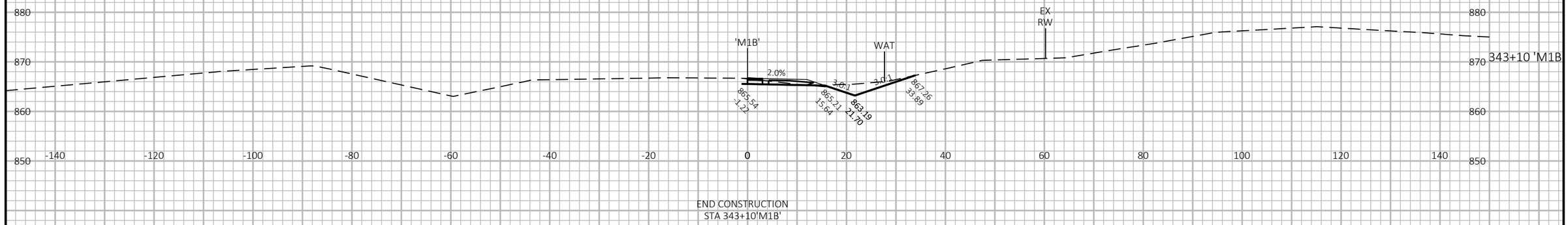
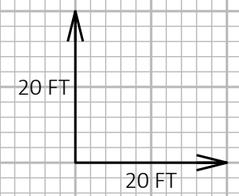


END CONSTRUCTION
STA 343+10'M1B'



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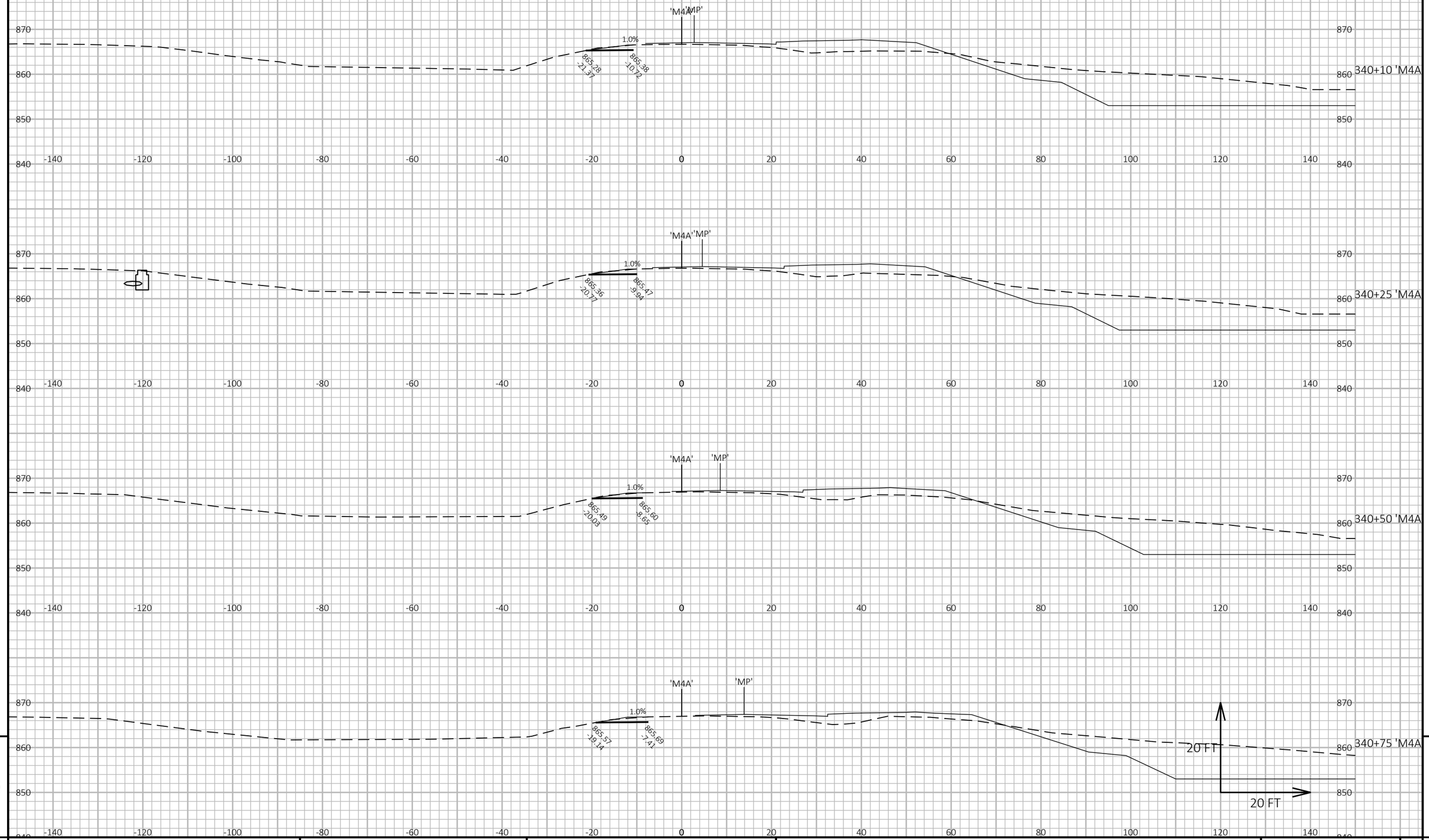
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M1B'	SHEET 1315	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND S BYPASS RD.DWG
LAYOUT NAME - 0901017_TS1
PLOT DATE : 3/18/2022 1:35 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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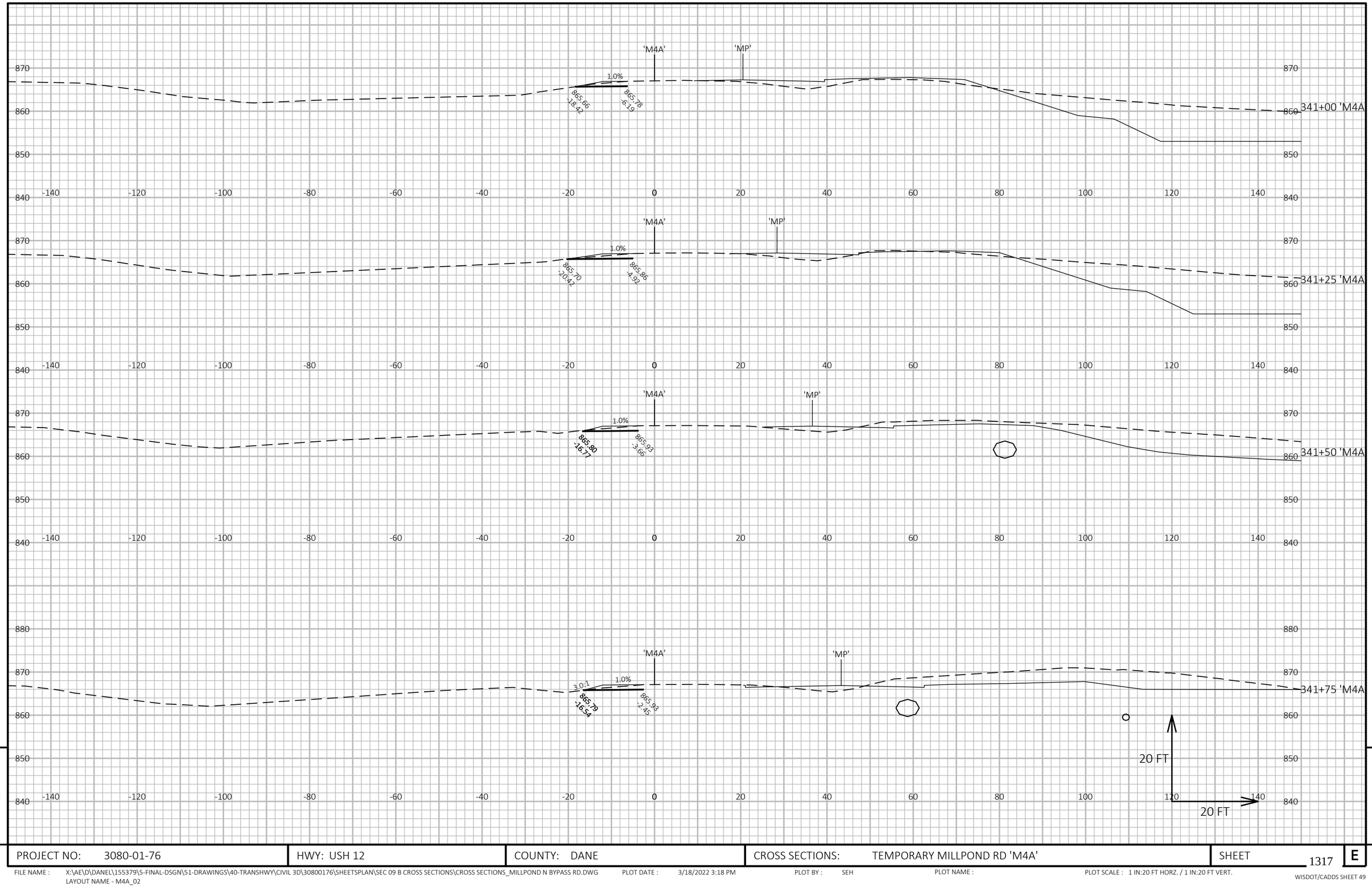
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M4A'	SHEET 1316	E

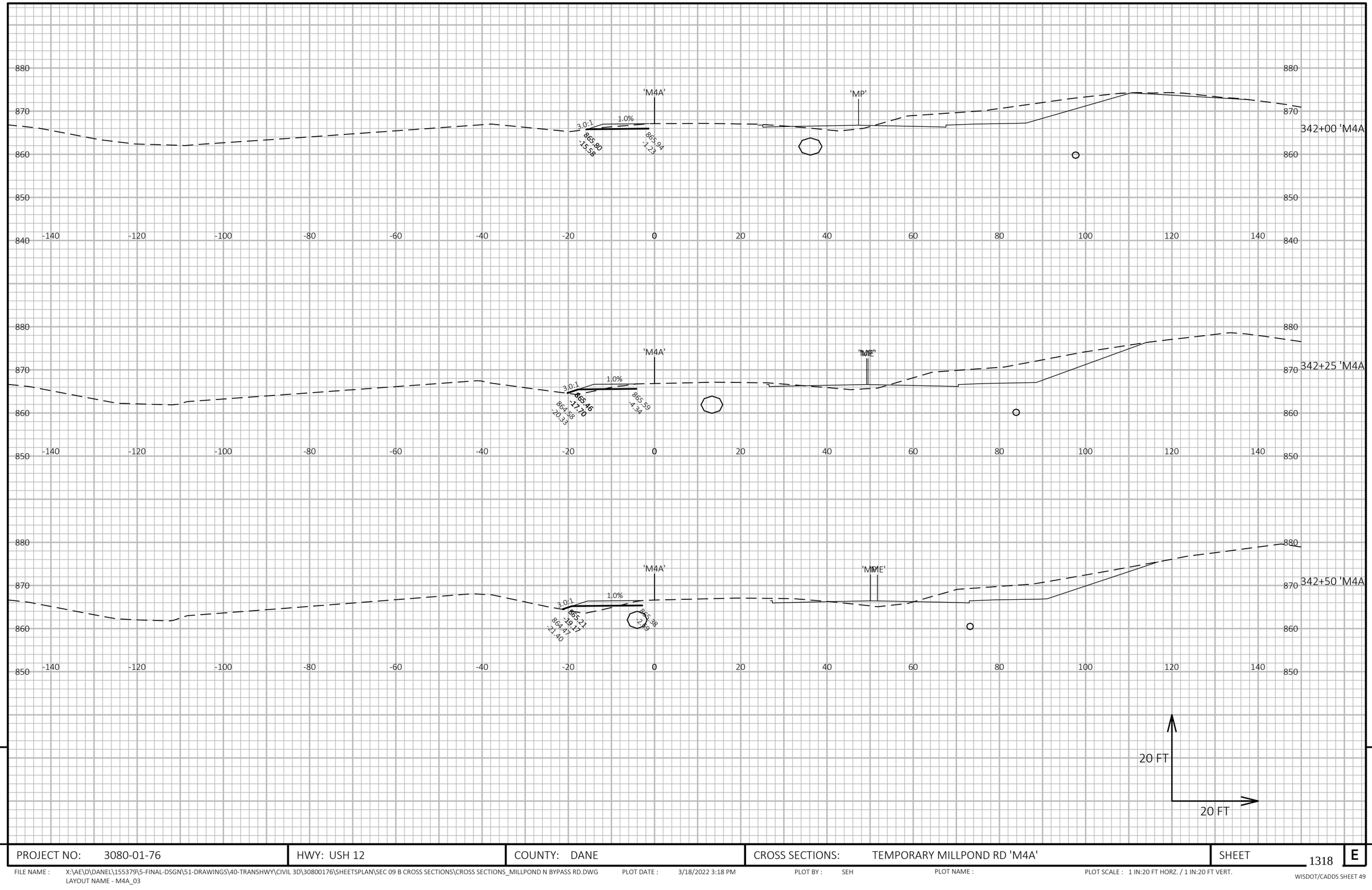
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND N BYPASS RD.DWG
LAYOUT NAME - M4A_01

PLOT DATE : 3/18/2022 3:18 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M4A'	SHEET 1317 E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND N BYPASS RD.DWG
LAYOUT NAME - M4A_02
PLOT DATE : 3/18/2022 3:18 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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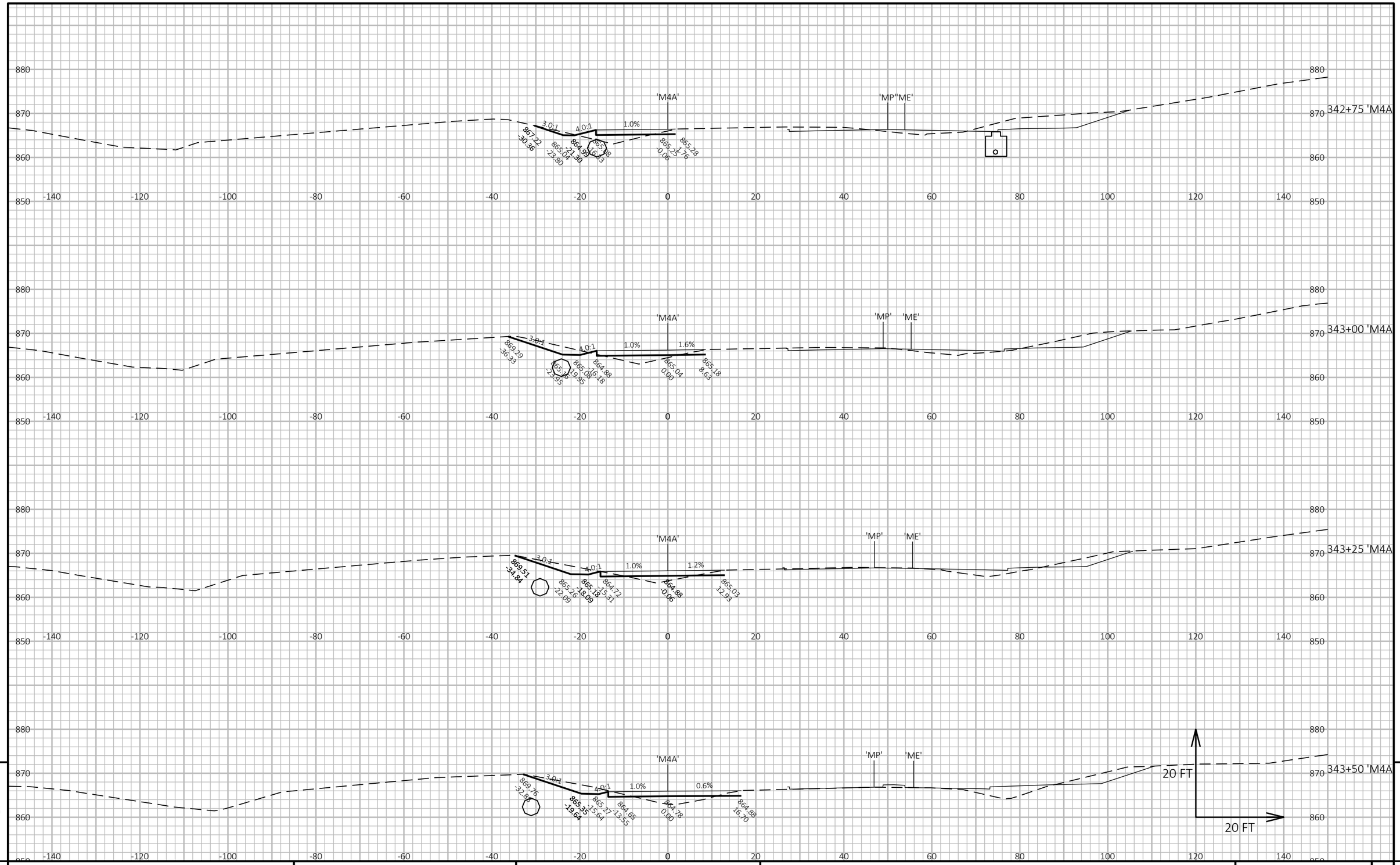
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M4A'	SHEET 1318	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND N BYPASS RD.DWG
LAYOUT NAME - M4A_03

PLOT DATE : 3/18/2022 3:18 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M4A'	SHEET 1319	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND N BYPASS RD.DWG
LAYOUT NAME - M4A_04

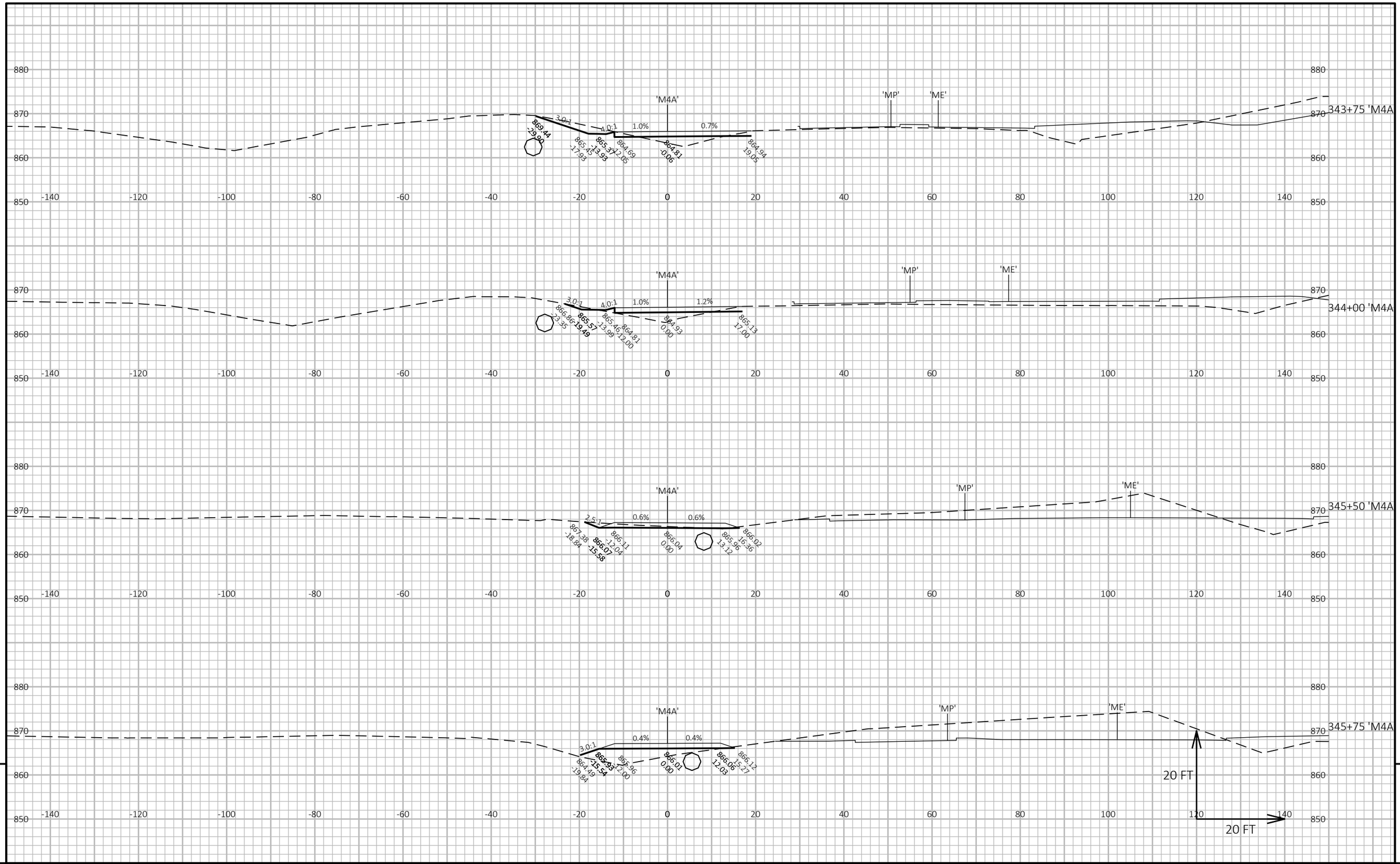
PLOT DATE : 3/18/2022 3:18 PM

PLOT BY : SEH

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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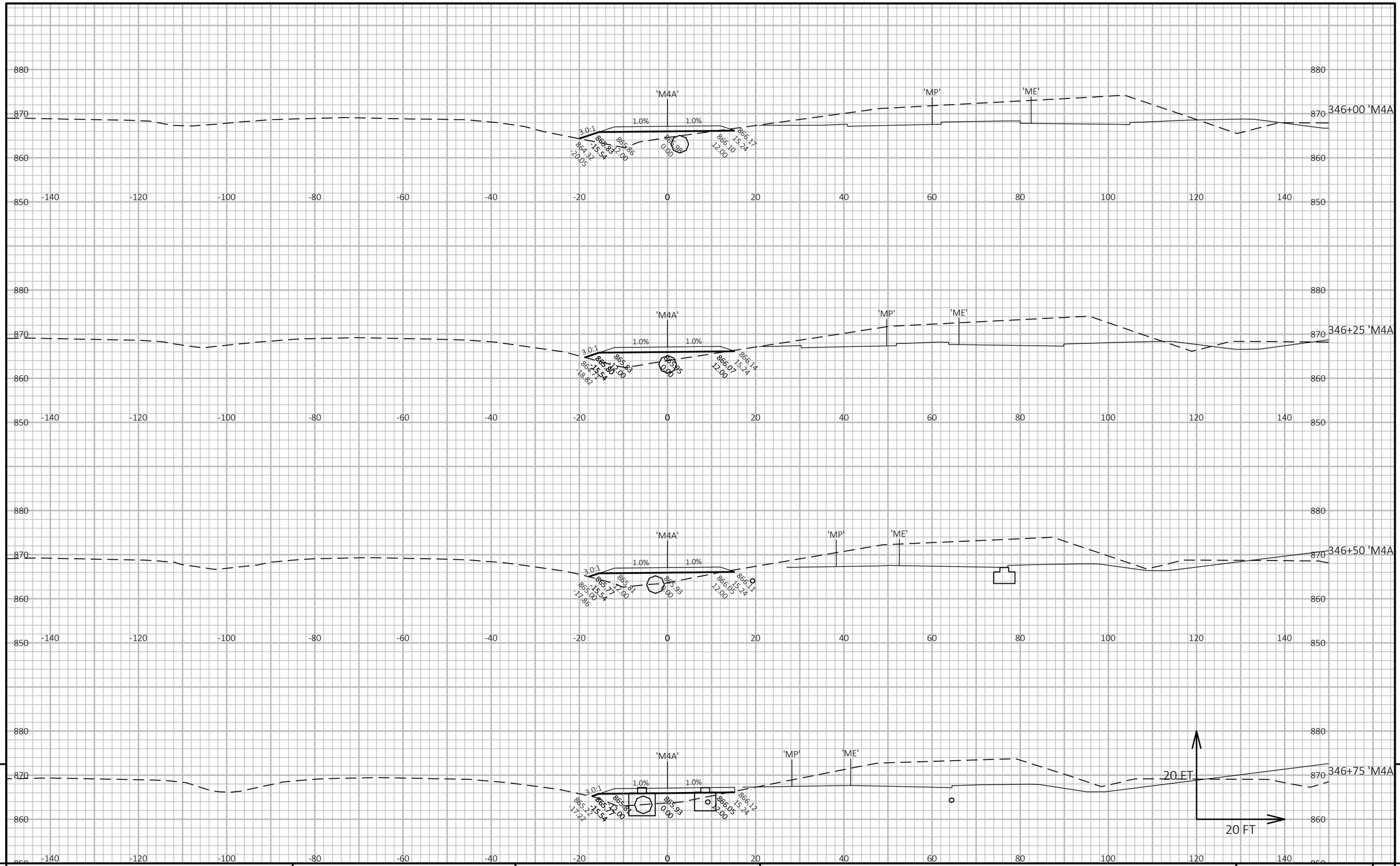
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M4A'	SHEET 1320	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND N BYPASS RD.DWG
LAYOUT NAME - M4A_05

PLOT DATE : 3/18/2022 3:19 PM PLOT BY : SEH PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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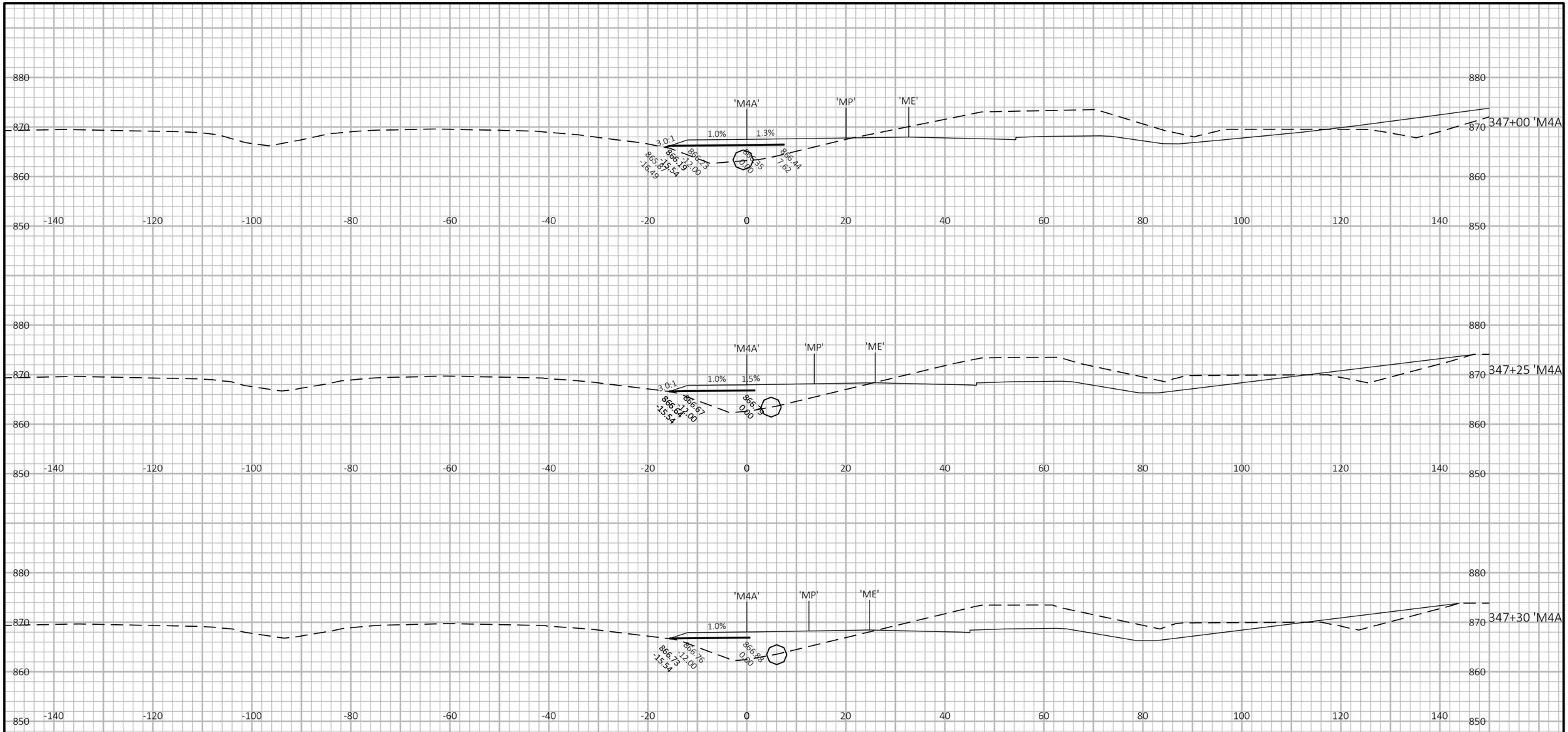
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M4A'	SHEET 1321	E

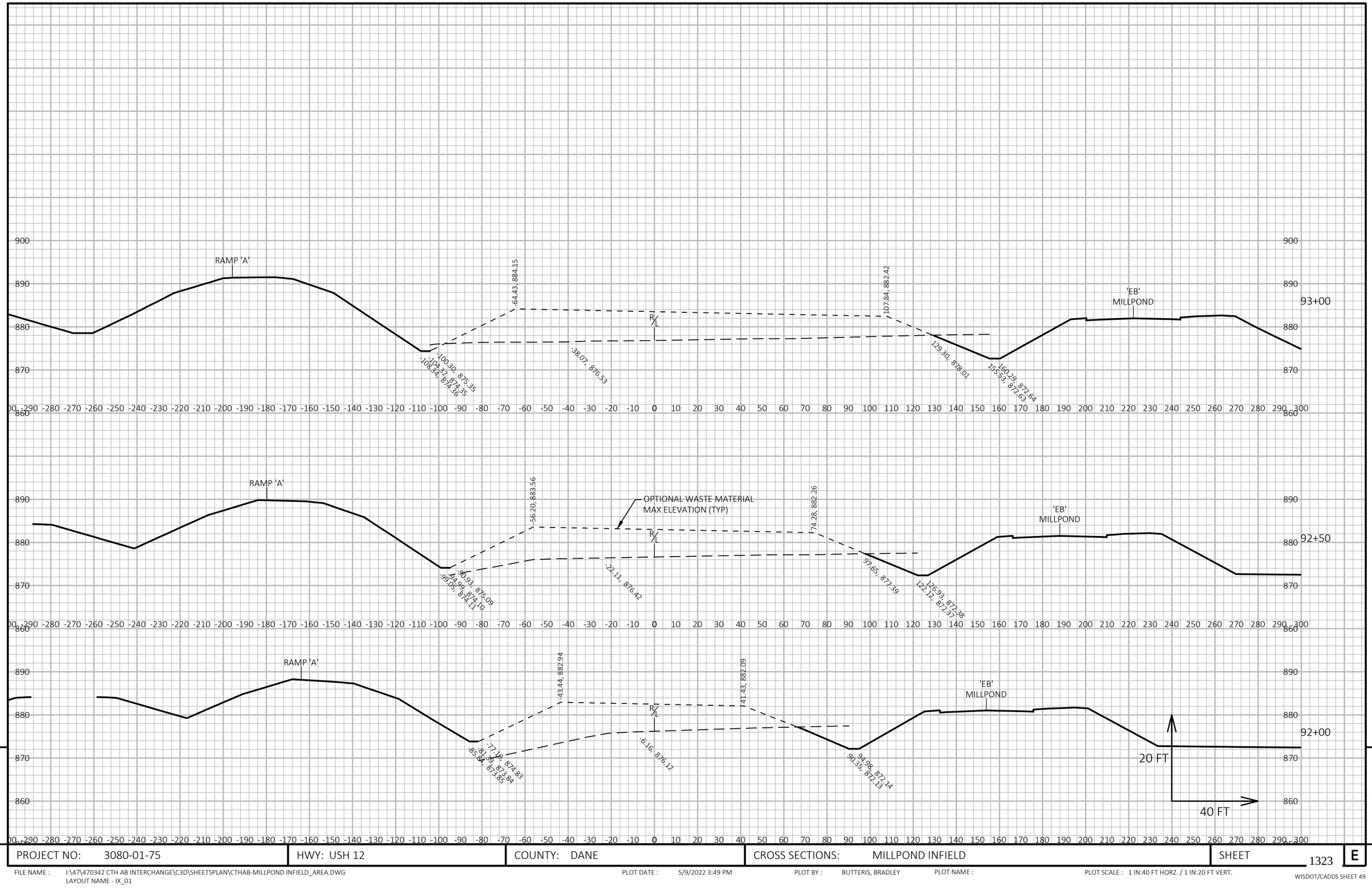
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND N BYPASS RD.DWG
LAYOUT NAME - M4A_06
PLOT DATE : 3/18/2022 3:19 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49



9

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: TEMPORARY MILLPOND RD 'M4A'	SHEET 1322	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 09 B CROSS SECTIONS\CROSS SECTIONS_MILLPOND N BYPASS RD.DWG
LAYOUT NAME - M4A_07
PLOT DATE : 3/18/2022 3:19 PM
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND INFIELD	SHEET 1323 E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\CTHAB-MILLPOND INFIELD_AREA.DWG
LAYOUT NAME - IX_01

PLOT DATE : 5/9/2022 3:49 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:40 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

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PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND INFIELD	SHEET 1324	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\CTHAB-MILLPOND INFIELD_AREA.DWG
LAYOUT NAME - IX_02

PLOT DATE : 5/9/2022 3:49 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:40 FT HORZ. / 1 IN:20 FT VERT.

RAMP 'A'

-131.81, 887.82

-178.65, 877.88
-159.09, 877.99

-161.68, 881.53

-136.00, 881.00

-77.46, 877.51

-20.00, 879.10

R/L

58.08, 884.21

90.88, 881.88

101.94, 882.98

230.98, 884.19

243.09, 881.18

274.38, 874.40
270.32, 874.39

96+00

RAMP 'A'

-107.27, 887.07

-155.18, 876.96
-159.53, 876.30

-142.73, 878.94

-117.37, 877.32

-37.23, 881.12

R/L

11.68, 884.13

47.64, 882.48

64.00, 882.80

OPTIONAL WASTE MATERIAL
MAX ELEVATION (TYP)

225.16, 883.75

269.73, 874.17
264.71, 874.11

95+50

RAMP 'A'

-96.63, 886.47

-137.99, 876.36
-142.03, 875.37
-146.08, 875.37

-122.12, 877.28

-92.00, 877.51

-43.10, 880.14

R/L

6.31, 881.35

213.99, 883.36

229.10, 869.72

20 FT

40 FT

257.40, 873.83
253.76, 873.83

95+00

9

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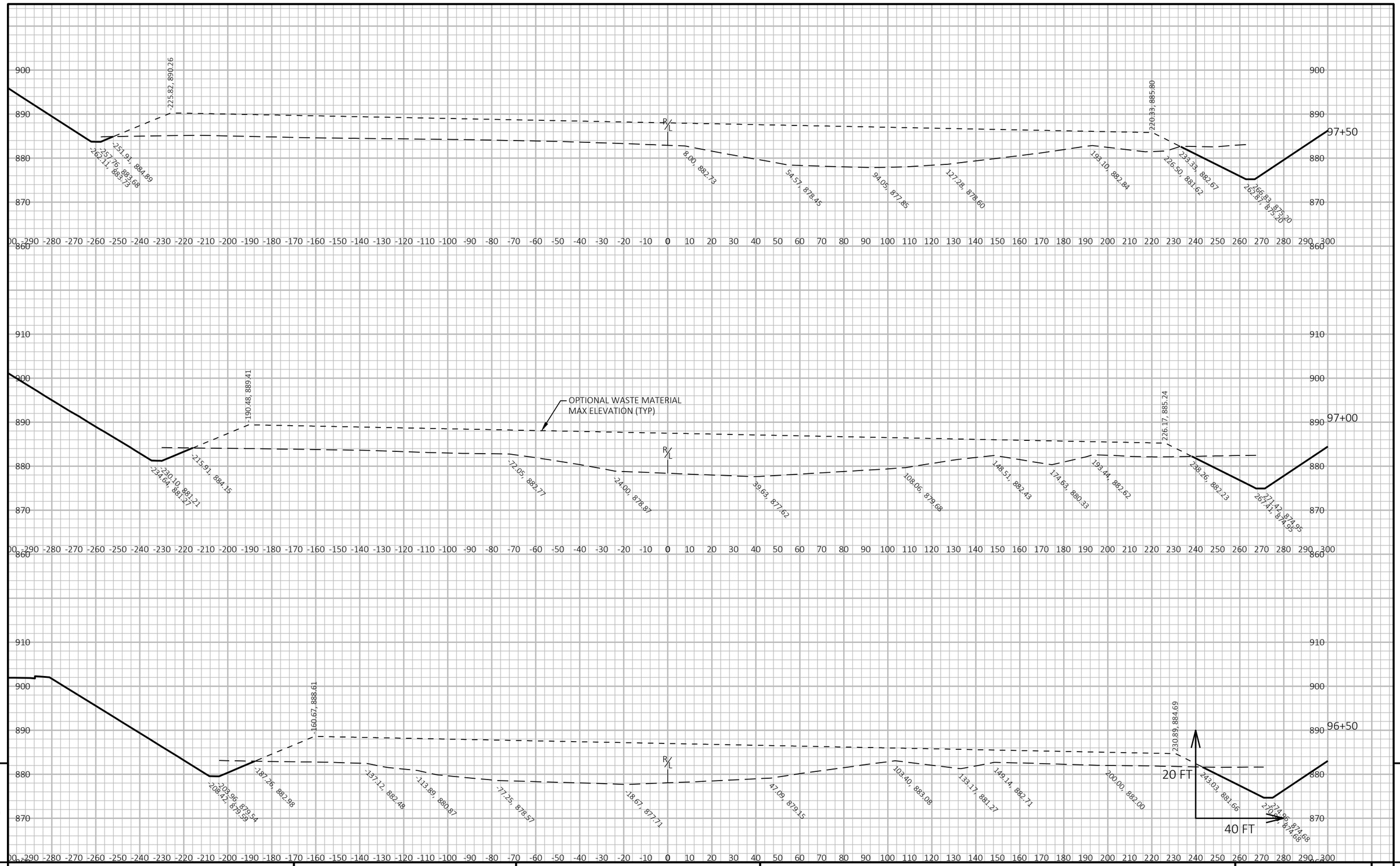
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND INFIELD	SHEET 1325	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\CTHAB-MILLPOND INFIELD_AREA.DWG
LAYOUT NAME - IX_03

PLOT DATE : 5/9/2022 3:49 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:40 FT HORZ. / 1 IN:20 FT VERT.



PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND INFIELD	SHEET 1326	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\CTHAB-MILLPOND INFIELD_AREA.DWG
LAYOUT NAME - IX_04

PLOT DATE : 5/9/2022 3:49 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:40 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

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PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND INFIELD	SHEET 1327	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\CTHAB-MILLPOND INFIELD_AREA.DWG
LAYOUT NAME - IX_05

PLOT DATE : 5/9/2022 3:49 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1 IN:40 FT HORZ. / 1 IN:20 FT VERT.

Wisconsin Department of Transportation

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http://www.dot.wisconsin.gov