WIS

JANUARY 2024

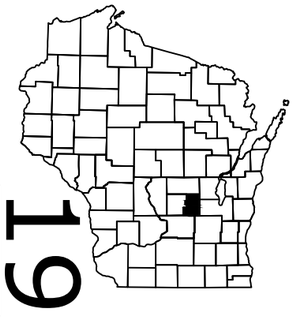
PROJECT ID: 1430-08-81 & 6640-00-70

WITH: NA

COUNTY: GREEN LAKE

ORDER OF SHEETS

TOTAL SHEETS = 258



STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1430-08-81	WISC 2024124	1
6640-00-70	WISC 2024127	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

PRINCETON - RIPON
STH 73/PYE ALLEY ROAD INTERSECTION

STH 23
GREEN LAKE COUNTY

STATE PROJECT NUMBER
1430-08-81

COLUMBUS - PRINCETON
N JCT STH 44 TO S JCT STH 23

STH 73
GREEN LAKE COUNTY

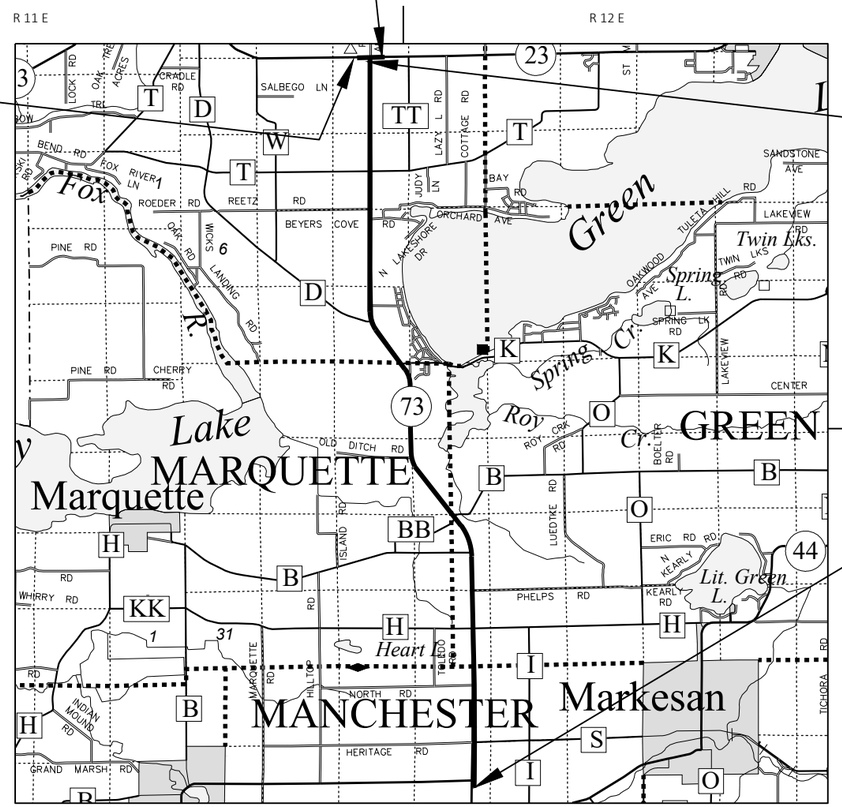
STATE PROJECT NUMBER
6640-00-70

END PROJECT
1430-08-81
STA 420+05.81
Y= 270,412.809
X= 539,485.798

BEGIN PROJECT 1430-08-81
STA 396+89.54
Y= 270,382.561
X= 537,169.722

END PROJECT 6640-00-70
STA 1522+13.32
Y= 270,235.775
X= 538,332.307

BEGIN PROJECT 6640-00-70
STA 994+85.00
Y= 219,557.445
X= 545,351.730



LAYOUT
SCALE 0 SCALE

TOTAL NET LENGTH OF CENTERLINE (1430-08-81) = 0.06 MI

TOTAL NET LENGTH OF CENTERLINE (6640-00-70) = 9.92 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), GREEN LAKE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18.

DESIGN DESIGNATION 1430-08-81 6640-00-70

A.A.D.T.	2024	=	6,370	2,330
A.A.D.T.	2044	=	6,370	2,470
D.H.V.		=	855	292
D.D.		=	61/39	61/39
T.		=	23.9%	22.4%
DESIGN SPEED		=	60 MPH	60 MPH
ESALS		=	5,100,000	900,000

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

ORIGINAL PLANS PREPARED BY

AYRES

WISCONSIN
JOHN A. BANECK
E-37477
MADISON, WI
PROFESSIONAL ENGINEER
9/21/2023

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NC REGION & AYRES ASSOCIATES
Designer	AYRES ASSOCIATES
Project Manager	WENDY ARNESON, P.E.
Regional Examiner	FRED SCHUNKE, P.E.
Regional Supervisor	ELIZABETH NEMEC, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 9/22/2023 Wendy Arneson Digitally signed by Wendy Arneson Date: 2023.09.22 13:55:09-05'00'

(Signature)

E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881-66400070_010101-TI.DWG

PLOT DATE : 9/21/2023 2:35 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. 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.

UTILITIES FACILITIES ARE NOT SHOWN ON PLAN SHEETS WHERE THEY ARE NOT IMPACTED BY PROPOSED CONSTRUCTION BECAUSE PROPOSED WORK IS LIMITED TO MILL AND OVERLAY OF ASPHALT PAVEMENT. UTILITIES HAVING FACILITIES IN THE HIGHWAY RIGHT-OF-WAY ARE LISTED ON THIS SHEET.

GRADING IS NOT ALLOWED IN WETLAND AREAS. DO NOT STORE EQUIPMENT OR MATERIAL IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS.

ORDER OF SECTION 2 SHEETS

UTILITY CONTACTS

ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION
CHRIS DAILEY
P.O. BOX 47
WAUKESHA, WI 53187
(262) 506-6884
CDAILEY@ATCLLC.COM

ALLIANT ENERGY - ELECTRICITY
CODY JACKSON
506 FENTON STREET
RIPON, WI 54971
(920) 748-4013
CODYJACKSON@ALLIANTENERGY.COM

BRIGHTSPEED OF CENTRAL WISCONSIN, LLC AND
BRIGHTSPEED OF NORTH CENTRAL WISCONSIN, LLC
(FORMERLY CENTURYLINK) - COMMUNICATION LINE
SCOTT HEINZELMAN
144 NORTH PEARL STREET
BERLIN, WI 54923
P: (608) 716-5964
C: (920) 757-4802
SCOTT.HEINZELMAN@BRIGHTSPEED.COM

BUG TUSSEL WIRELESS, LLC - COMMUNICATION LINE
GEREMIAH YOUNG
417 PINE STREET
GREEN BAY, WI 54301
(920) 328-3442
GEREMIAH.YOUNG@BTUSSEL.COM
DUSTIN TEAFF (CONSTRUCTION CONTACT)
KES EXCAVATING SERVICES, LLC
1262 CAMBER CT
DE PERE, WI 54115
(920) 254-3539
DUSTIN.TEAFF@KESEXCAVATING.COM

GREEN LAKE SANITARY DISTRICT - SEWER
DALLAS LEWALLEN
N 5295 CTH TT
PRINCETON, WI 54968
(608) 345-7484
DALLASDEANLEWALLEN@GMAIL.COM

WE ENERGIES -GAS/PETROLEUM
LARRY KOCH
1921 8TH STREET SOUTH
WISCONSIN RAPIDS, WI 54494
P: (715) 421-7249
C: (715) 421-9293
LARRY.KOCH@WE-ENERGIES.COM

OTHER CONTACTS

WISCONSIN DNR LIASON

JAY SCHIEFELBEIN
DNR NORTHEAST REGION HEADQUARTERS
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
(920) 360-3784
JEREMIAH.SCHIEFELBEIN@WISCONSIN.GOV

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

N

CULVERT REPLACEMENT
CULVERT #24073005020
STA 1014+78

CULVERT REPLACEMENT
CULVERT #24073005021
STA 1042+88

CULVERT REPLACEMENT
CULVERT #24073005022
STA 1074+02

CULVERT REPLACEMENT
CULVERT #24073005027
STA 1167+30

BEGIN PROJECT 6640-00-70
STA 994+85.00

END PROJECT 6640-00-70
STA 1522+13.32

BEGIN PROJECT 1430-08-81
STA 396+89.54

END PROJECT 1430-08-81
STA 420+05.81

APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA

LOCATION OF ENVIRONMENTALLY SENSITIVE AREA

MANCHESTER

TOLEDO RD

MAPLE RD

PYE ALLEY RD

SINA RD

LAZY RD

SWAMP RD

GREEN LAKE

HERITAGE RD

NORTH RD

OLD DITCH RD

PHELPS RD

REETZ RD

SWANSONS RD

LILL AVE

RADTKE RD

BEYERS COVE RD

OLD GREEN LAKE RD

COUNTY B, BB, D, H, I, K, P, S, T, TT

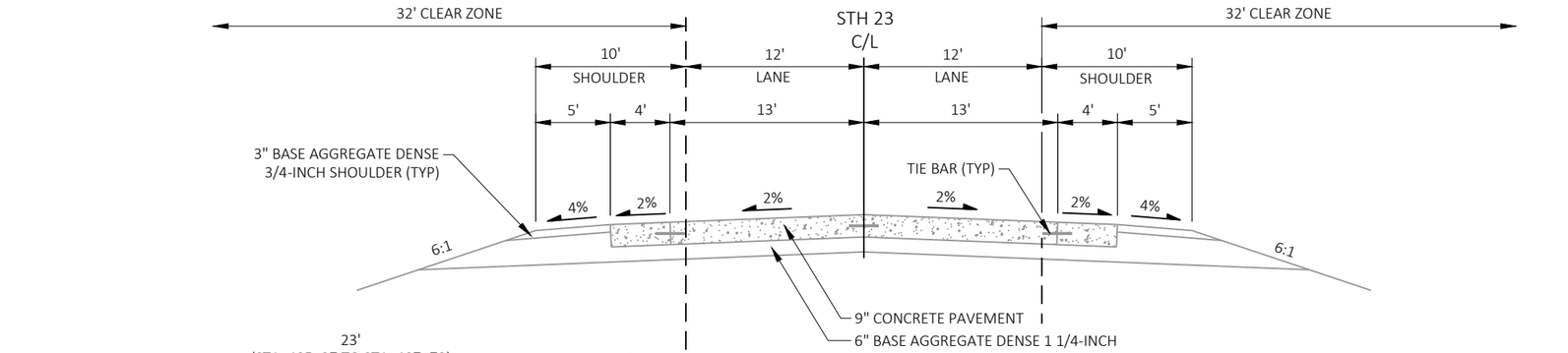
44, 73, 23

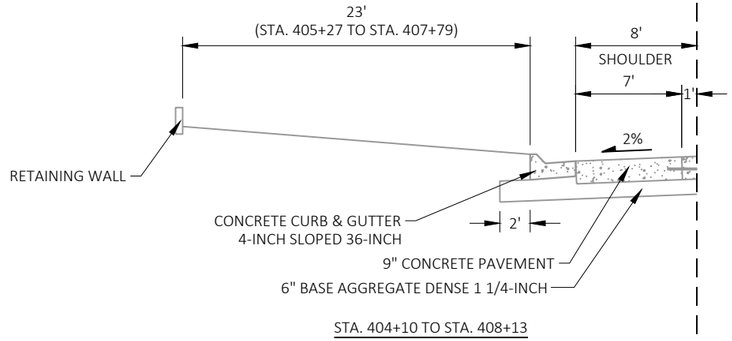
PROJECT NO: 1430-08-81 & 6640-00-70	HWY: STH 23 & STH 73	COUNTY: GREEN LAKE	PROJECT OVERVIEW	SHEET 3 E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881-66400070_020201_PO.DWG
LAYOUT NAME - 01

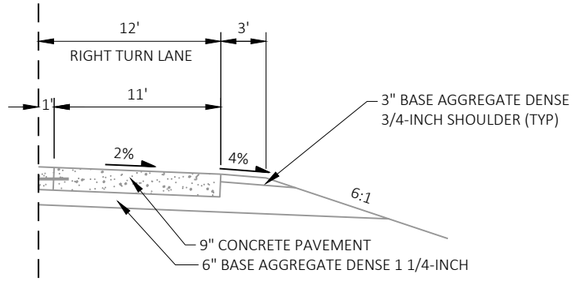
PLOT DATE : 9/15/2023 2:51 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:0.5 MI

WISDOT/CADDS SHEET 44

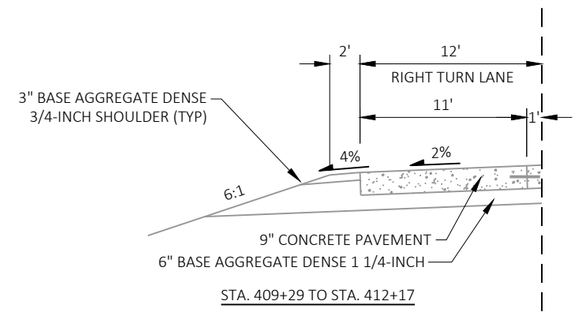




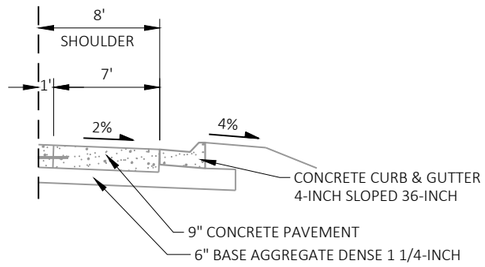
STA. 404+10 TO STA. 408+13



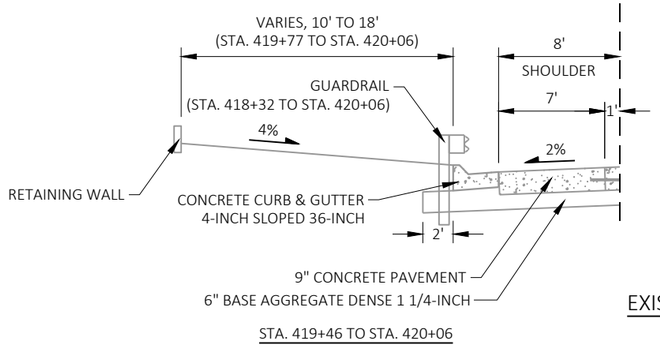
STA. 403+35 TO STA. 407+73



STA. 409+29 TO STA. 412+17



STA. 417+96 TO STA. 420+06



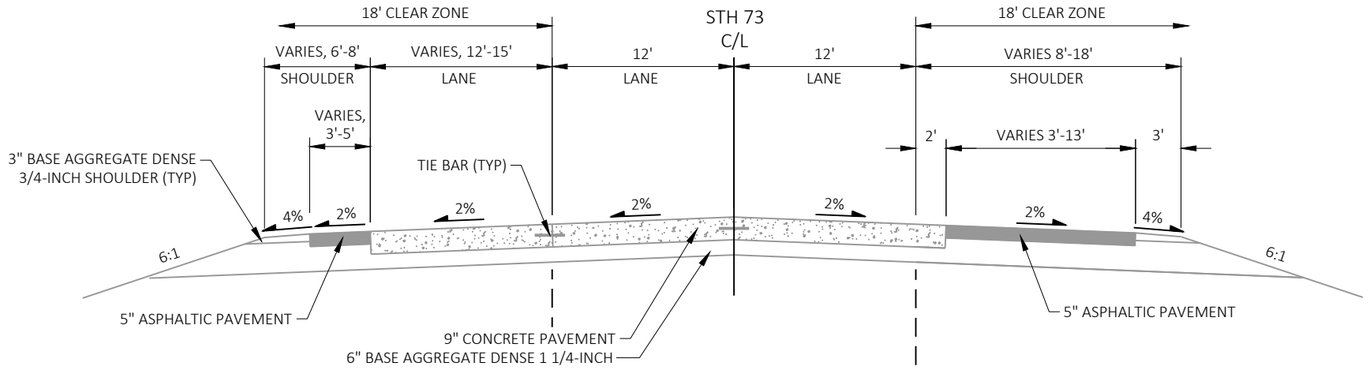
STA. 419+46 TO STA. 420+06

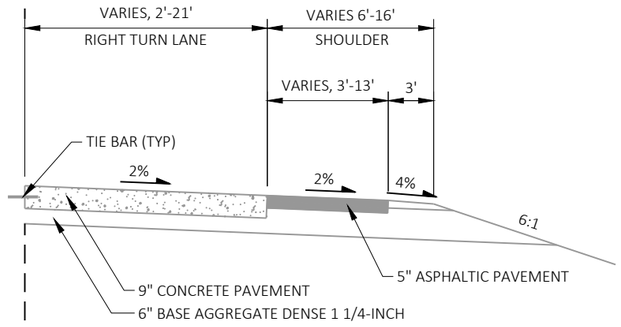
EXISTING TYPICAL SECTION - STH 23

STA. 396+90 TO STA. 420+06

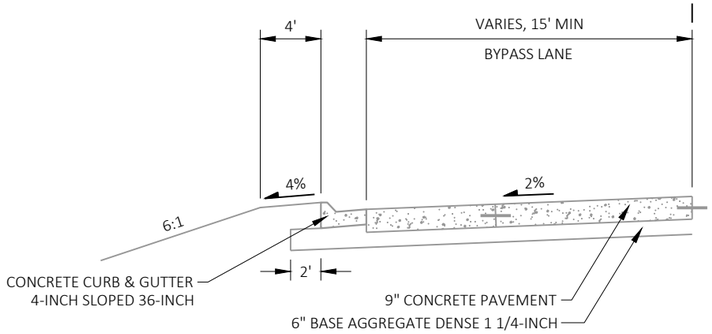
PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	TYPICAL SECTIONS	SHEET 4	E

2

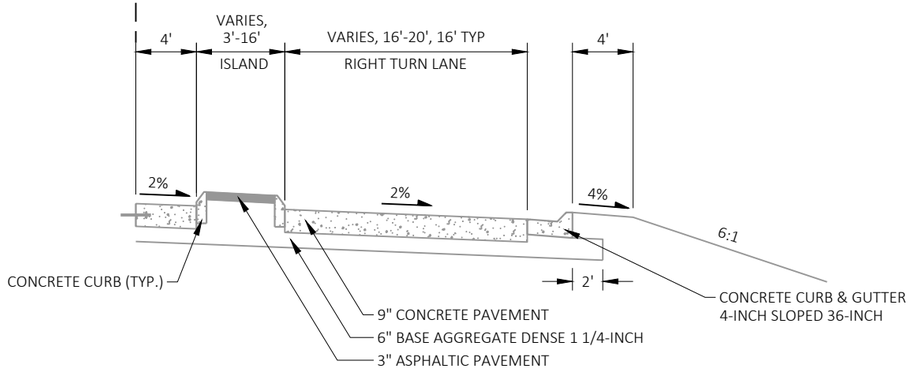




STA. 1522+39 TO STA. 1523+14



STA. 1523+13 TO STA. 1523+64



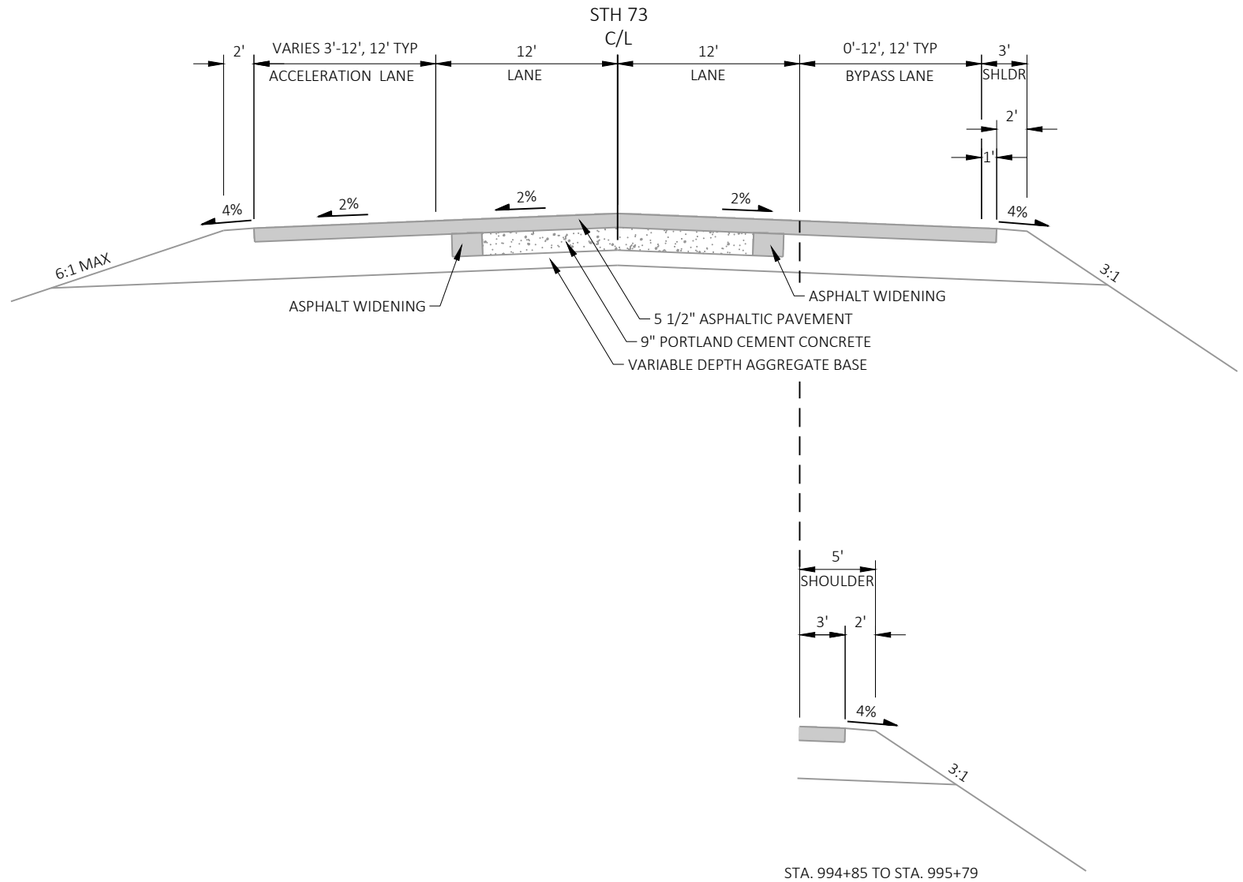
STA. 1523+13 TO STA. 1523+64

EXISTING TYPICAL SECTION - STH 73

STA. 1522+13 TO STA. 1523+64

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	TYPICAL SECTIONS	SHEET 5	E

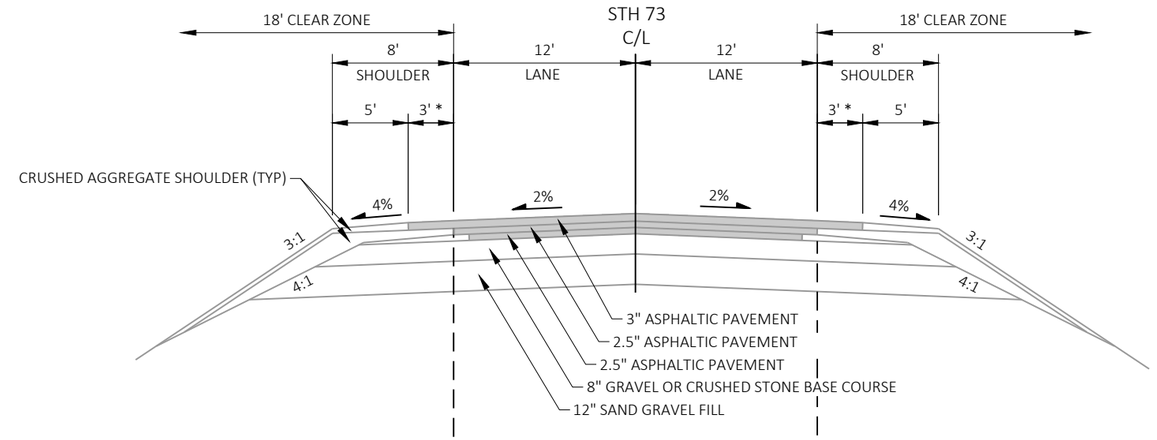
2

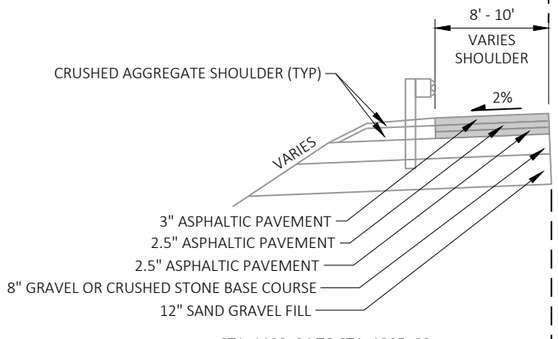


STA. 994+85 TO STA. 995+79

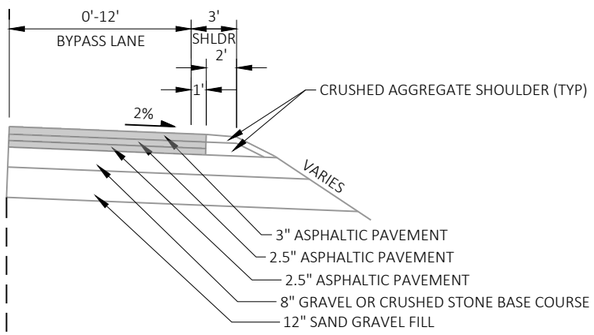
EXISTING TYPICAL SECTION - STH 73

STA. 994+85 TO STA. 998+66

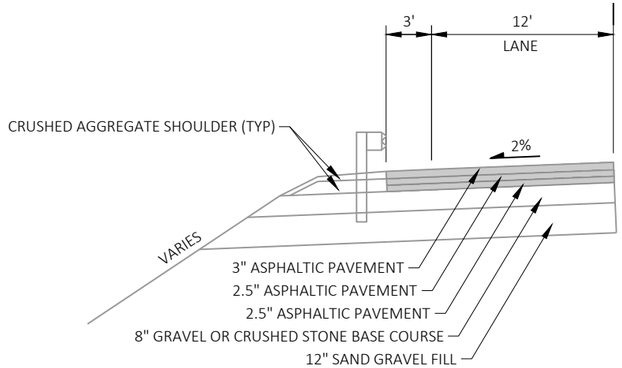




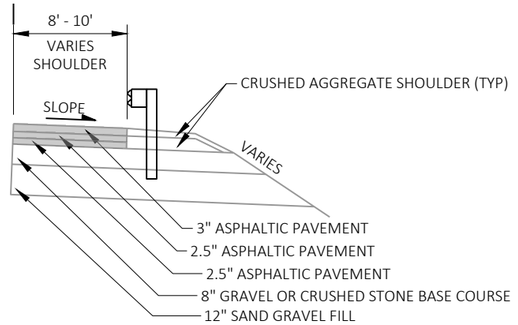
STA. 1198+34 TO STA. 1205+89
STA. 1406+13 TO STA. 1407+67
STA. 1421+48 TO STA. 1422+78



STA. 998+66 TO STA. 1002+92



STA. 1513+26 TO STA. 1520+66



STA. 1198+20 TO STA. 1205+86
STA. 1272+37 TO STA. 1278+92
STA. 1406+13 TO STA. 1407+68
STA. 1421+07 TO STA. 1422+61
STA. 1511+43 TO STA. 1520+58

EXISTING TYPICAL SECTION - STH 73

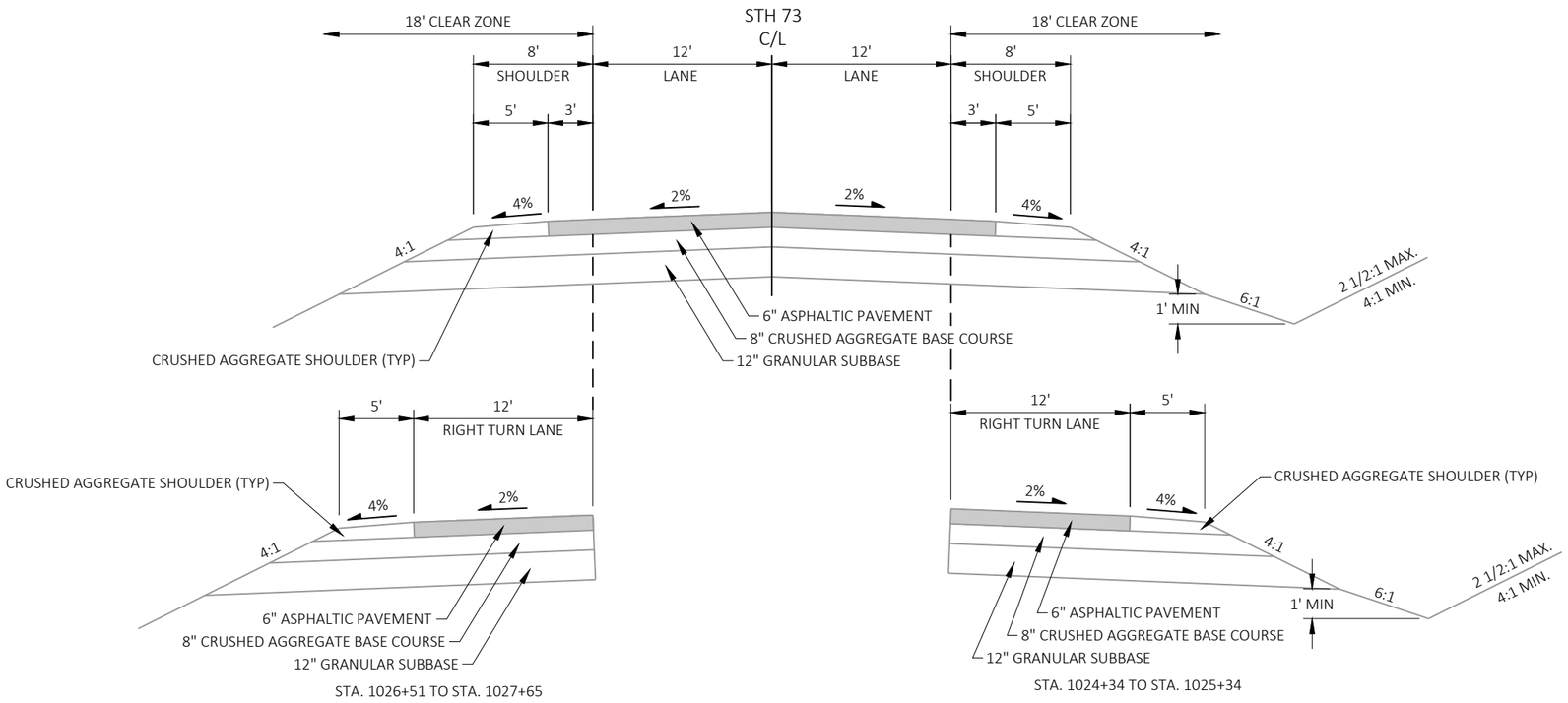
STA. 998+66 TO STA. 1022+45
STA. 1035+50 TO STA. 1522+45

*PAVED SHOULDER IS 5' WIDE FROM
STA. 1304+92.6 TO STA. 1444+56.6

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	TYPICAL SECTIONS	SHEET 7	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_020301_TS.DWG
LAYOUT NAME - E01
PLOT DATE : 9/19/2023 5:43 PM
PLOT BY : KUSCHEL, LEVI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

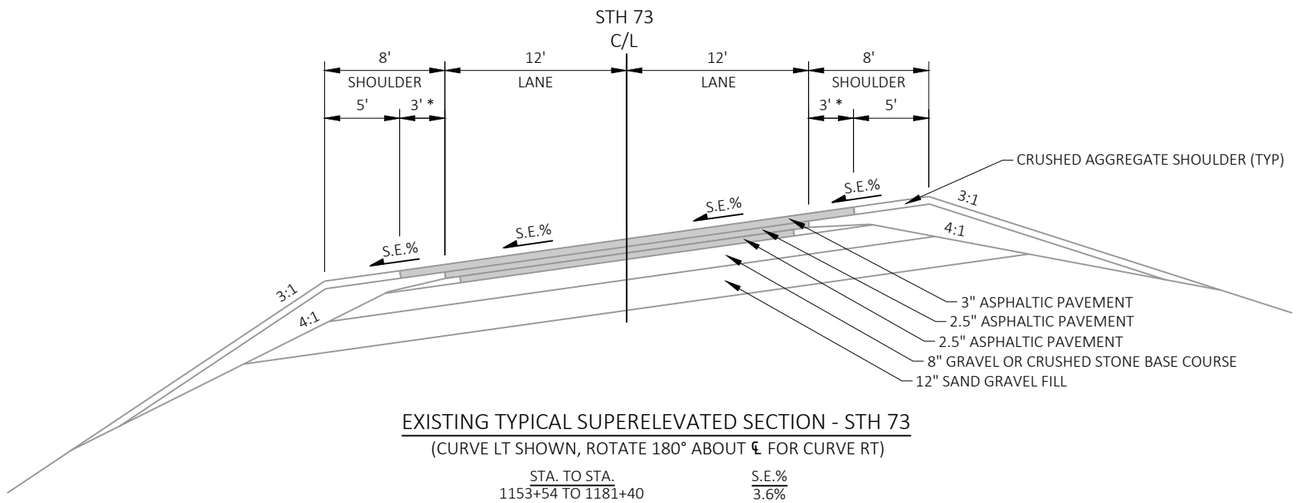


STA. 1026+51 TO STA. 1027+65

STA. 1024+34 TO STA. 1025+34

EXISTING TYPICAL SECTION - STH 73

STA. 1022+45 TO STA. 1035+50



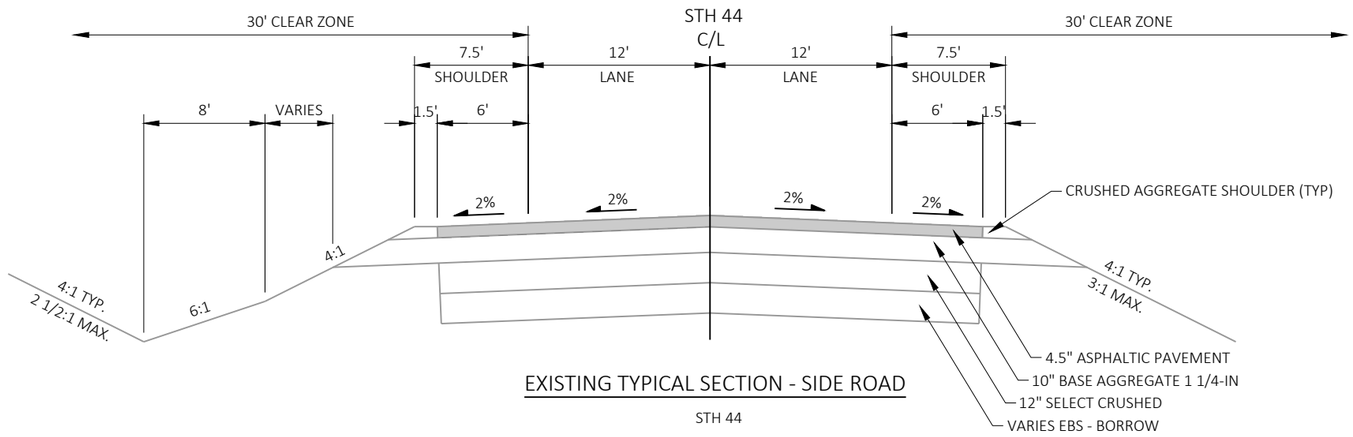
EXISTING TYPICAL SUPERELEVATED SECTION - STH 73

(CURVE LT SHOWN, ROTATE 180° ABOUT ℄ FOR CURVE RT)

STA. TO STA.	S.E.%
1153+54 TO 1181+40	3.6%
1227+92 TO 1240+24	5.4%
1287+79 TO 1299+29	5.4%
1333+87 TO 1345+32	5.4%

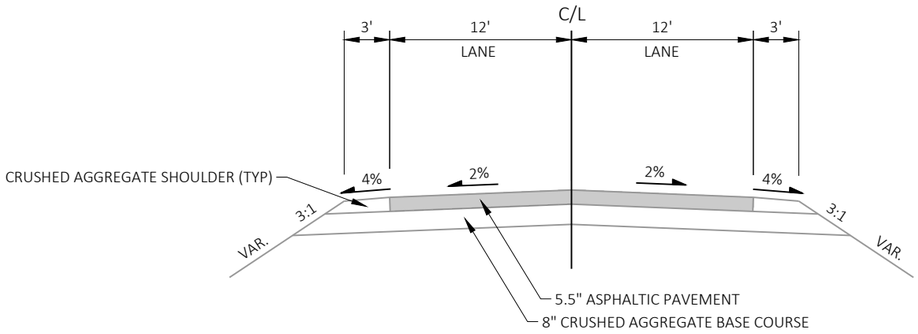
*PAVED SHOULDER IS 5' WIDE FROM
STA. 1304+92.6 TO STA. 1444+56.6

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	TYPICAL SECTIONS	SHEET 8	E



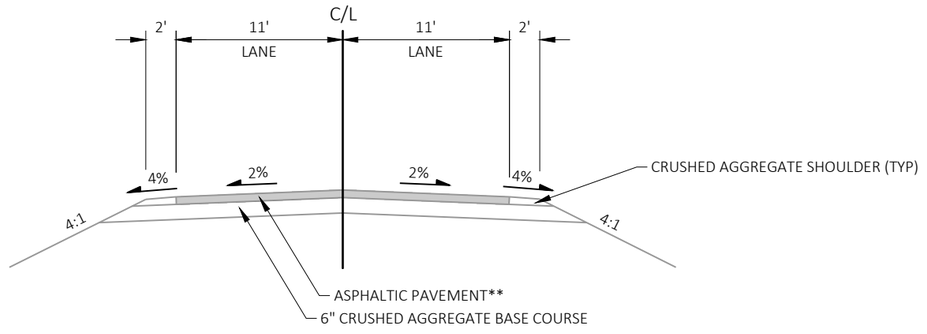
EXISTING TYPICAL SECTION - SIDE ROAD

STH 44



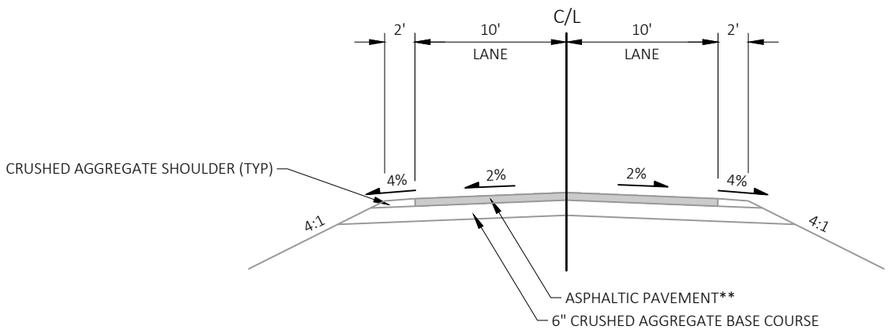
EXISTING TYPICAL SECTION - SIDE ROAD

HERITAGE ROAD
CTH S
MAPLE ROAD



EXISTING TYPICAL SECTION - SIDE ROAD

CTH B
CTH T

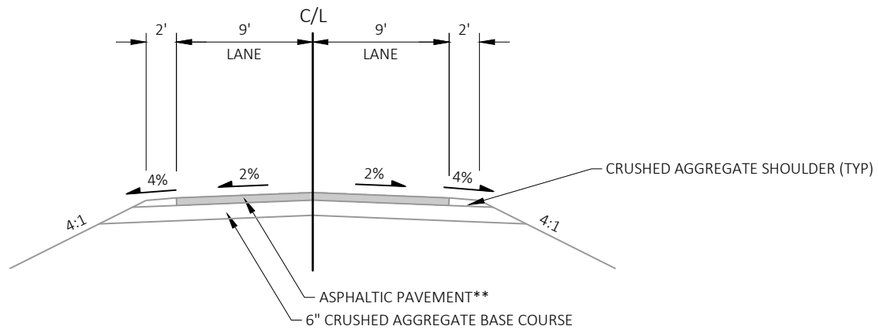


EXISTING TYPICAL SECTION - SIDE ROAD

NORTH ROAD
CTH H
PHELPS ROAD

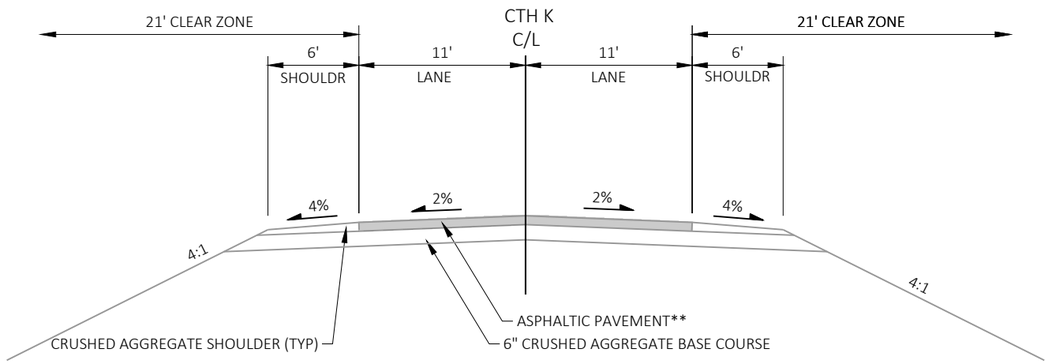
CTH BB
BEYERS COVE ROAD
REETZ ROAD

**EXISTING PAVEMENT THICKNESS UNKNOWN



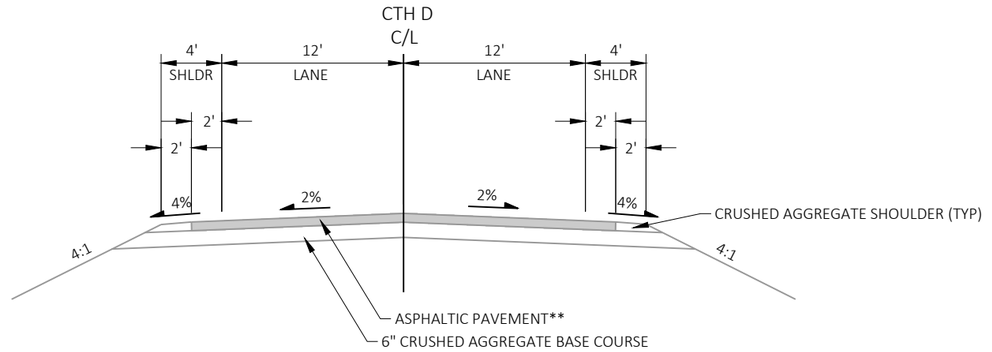
EXISTING TYPICAL SECTION - SIDE ROAD

OLD DITCH ROAD
SWANSONS ROAD



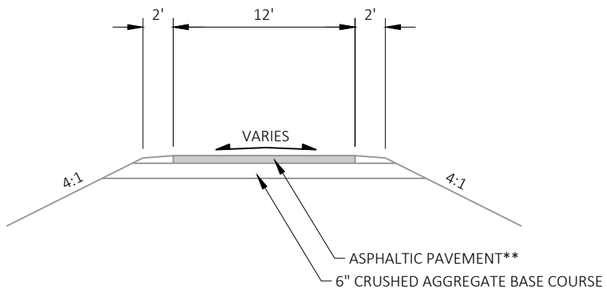
EXISTING TYPICAL SECTION - SIDE ROAD

CTH K



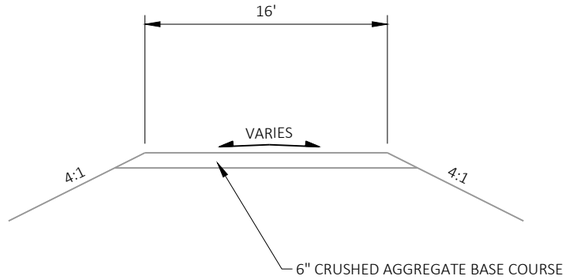
EXISTING TYPICAL SECTION - SIDE ROAD

CTH D



EXISTING TYPICAL SECTION - SIDE ROAD

LILL AVE



EXISTING TYPICAL SECTION - SIDE ROAD

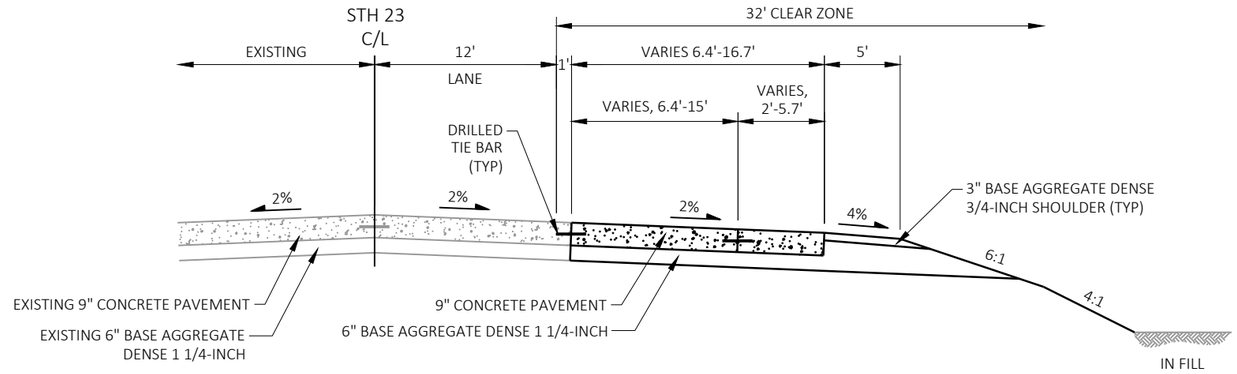
RADTKE RD

**EXISTING PAVEMENT THICKNESS UNKNOWN

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	TYPICAL SECTIONS	SHEET 10	E

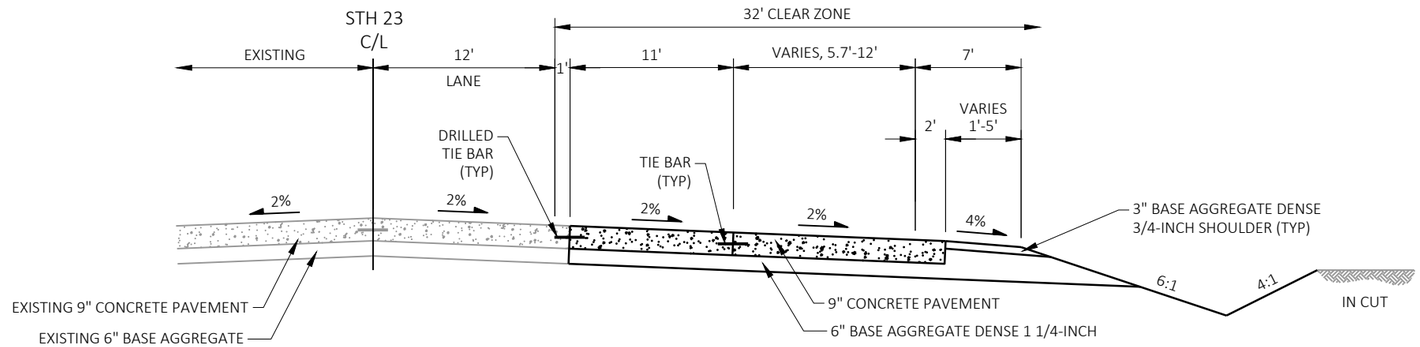
NOTES:

CONSTRUCT THE PAVED SHOULDERS WITH THE SAME MIX TYPE AND THICKNESS AS THE MAINLINE.



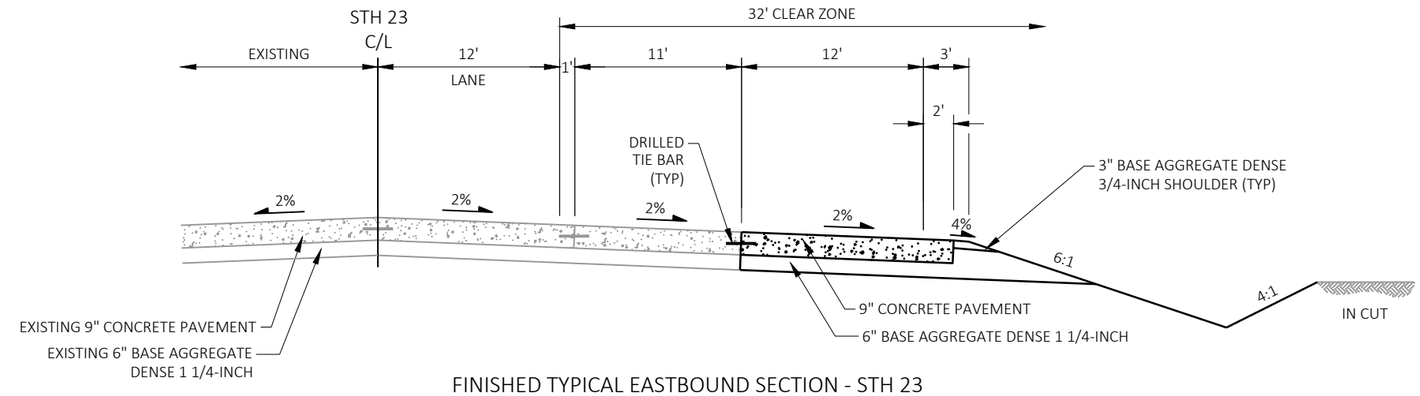
FINISHED TYPICAL EASTBOUND SECTION - STH 23

STA. 396+90 TO STA. 403+17



FINISHED TYPICAL EASTBOUND SECTION - STH 23

STA. 403+17 TO STA. 404+40

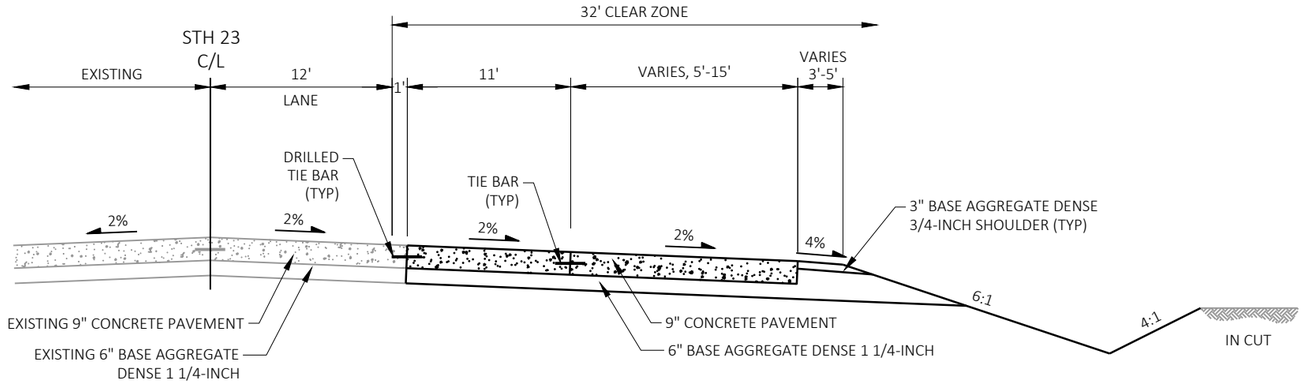


FINISHED TYPICAL EASTBOUND SECTION - STH 23

STA. 404+40 TO 408+64

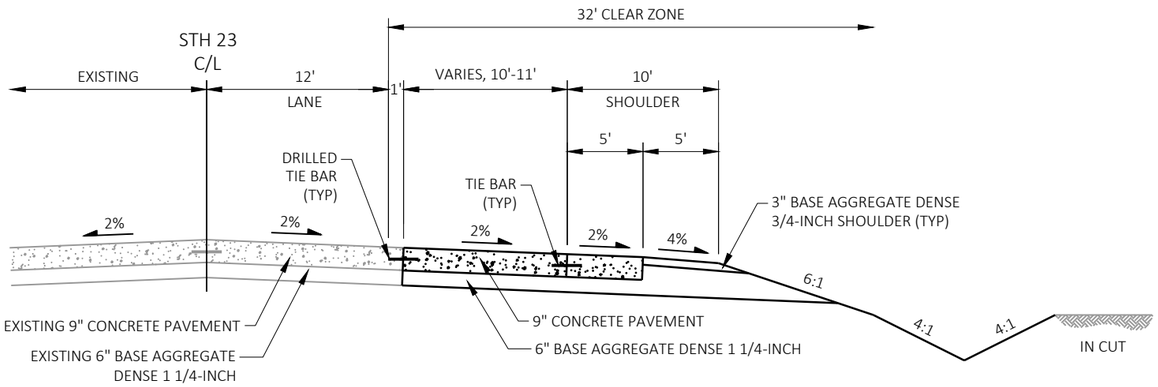
NOTES:

CONSTRUCT THE PAVED SHOULDERS WITH THE SAME MIX TYPE AND THICKNESS AS THE MAINLINE.



FINISHED TYPICAL SECTION - STH 23

STA. 408+64 TO STA. 410+07



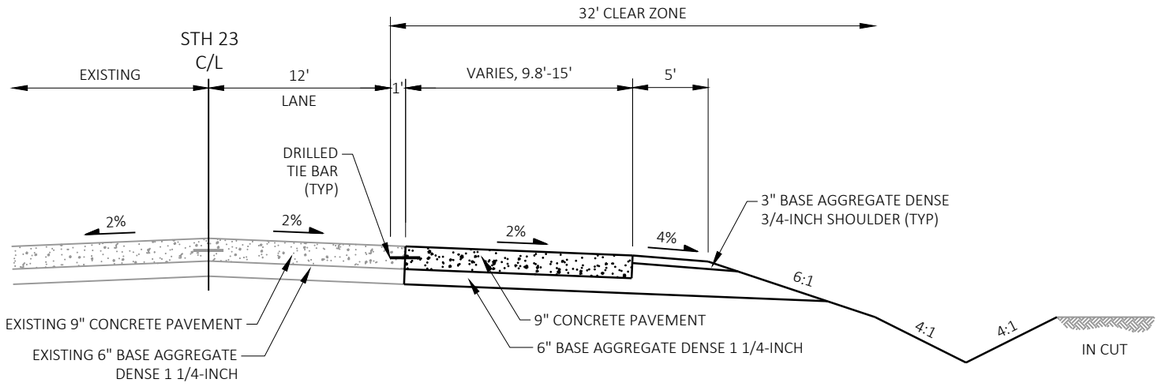
FINISHED TYPICAL SECTION - STH 23

STA. 410+07 TO STA. 413+30

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	TYPICAL SECTIONS	SHEET 12	E

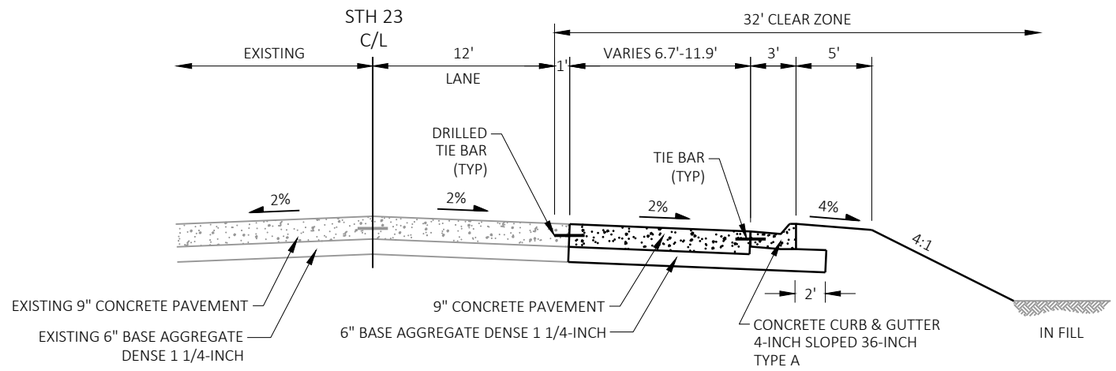
NOTES:

CONSTRUCT THE PAVED SHOULDERS WITH THE SAME MIX TYPE AND THICKNESS AS THE MAINLINE.



FINISHED TYPICAL SECTION - STH 23

STA. 413+30 TO STA. 416+92



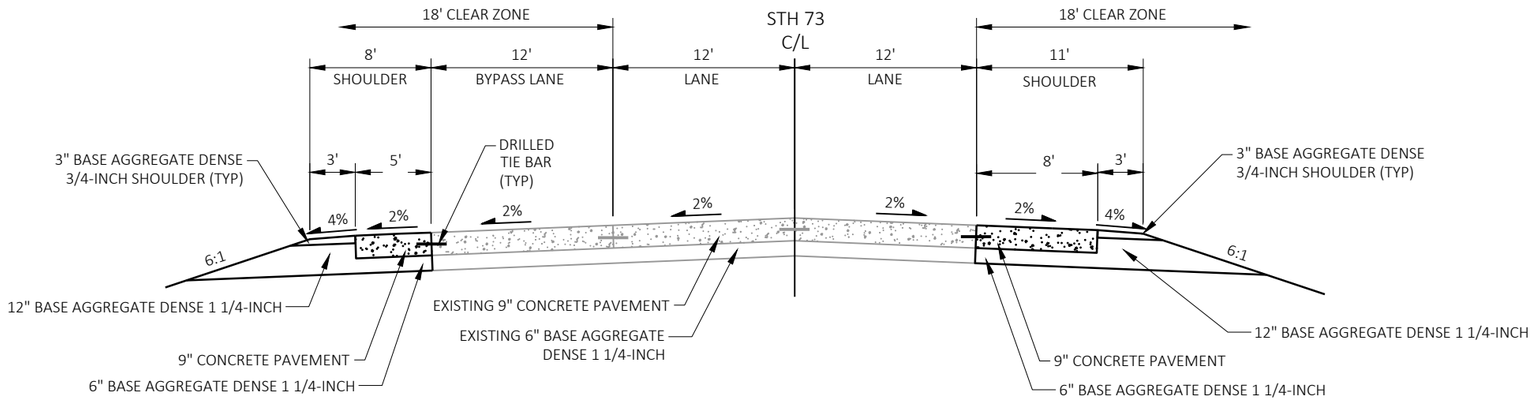
FINISHED TYPICAL SECTION - STH 23

STA. 416+92 TO STA. 420+06

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	TYPICAL SECTIONS	SHEET 13	E

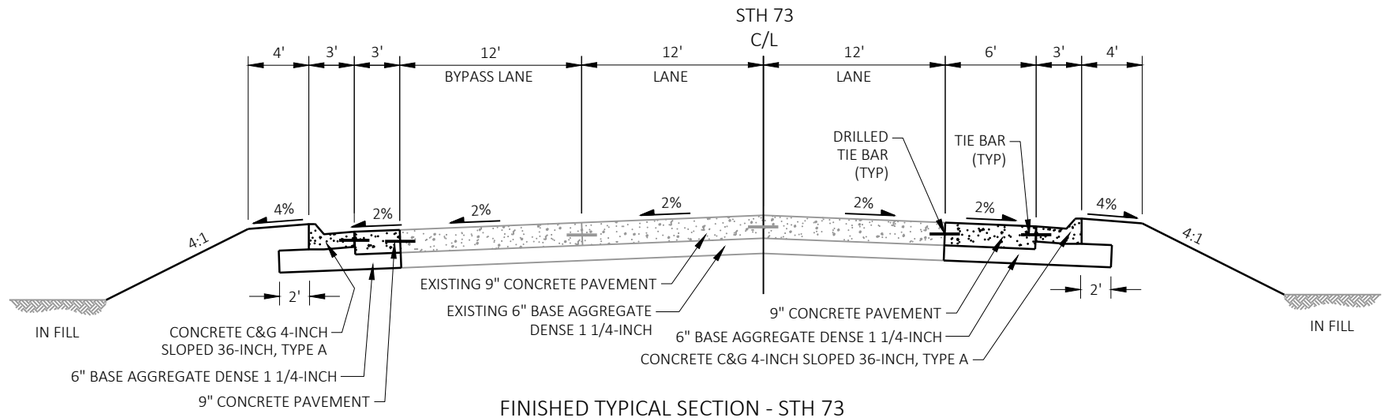
NOTES:

CONSTRUCT THE PAVED SHOULDERS WITH THE SAME MIX TYPE AND THICKNESS AS THE MAINLINE.



FINISHED TYPICAL SECTION - STH 73

STA. 1522+13 TO STA. 1523+02

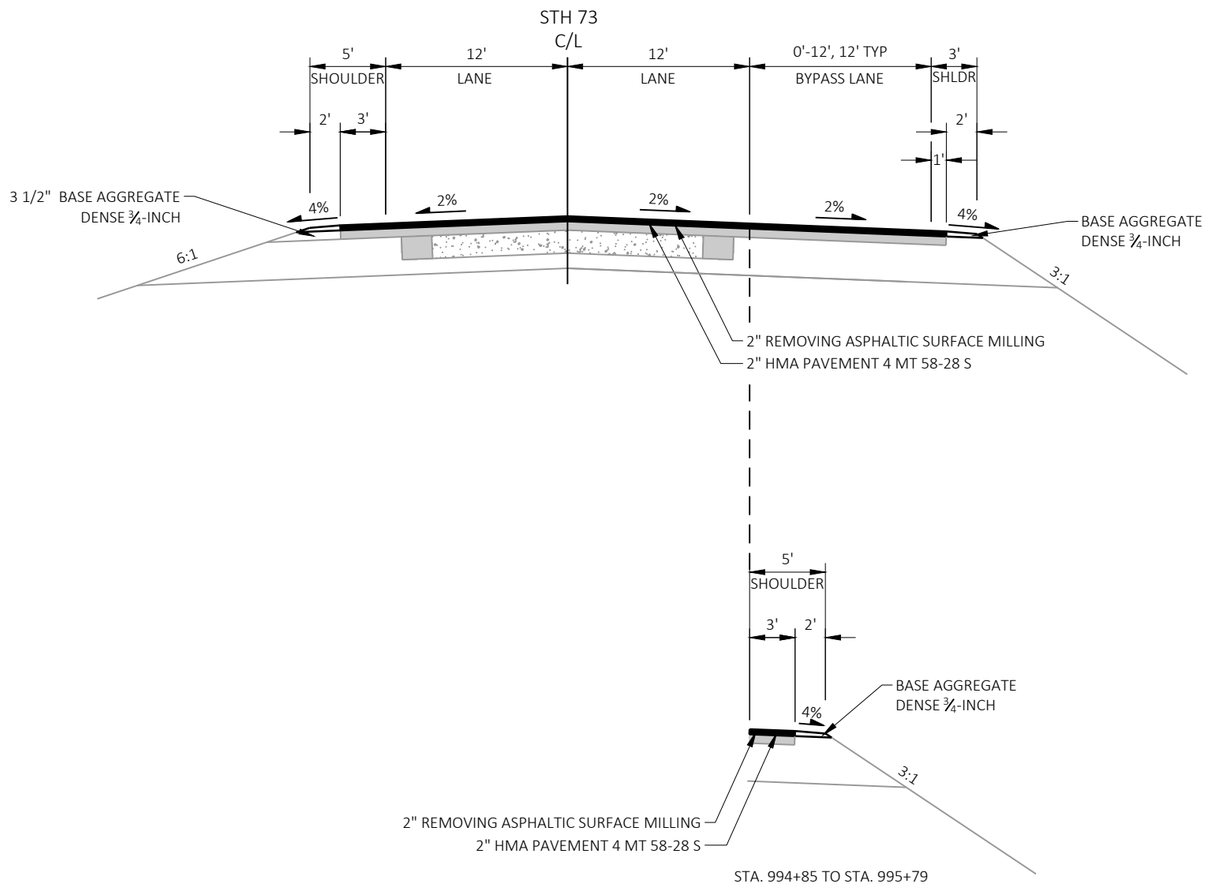


FINISHED TYPICAL SECTION - STH 73

STA. 1523+02 TO STA. 1523+64

NOTES:

CONSTRUCT THE PAVED SHOULDERS WITH THE SAME MIX TYPE AND THICKNESS AS THE MAINLINE.

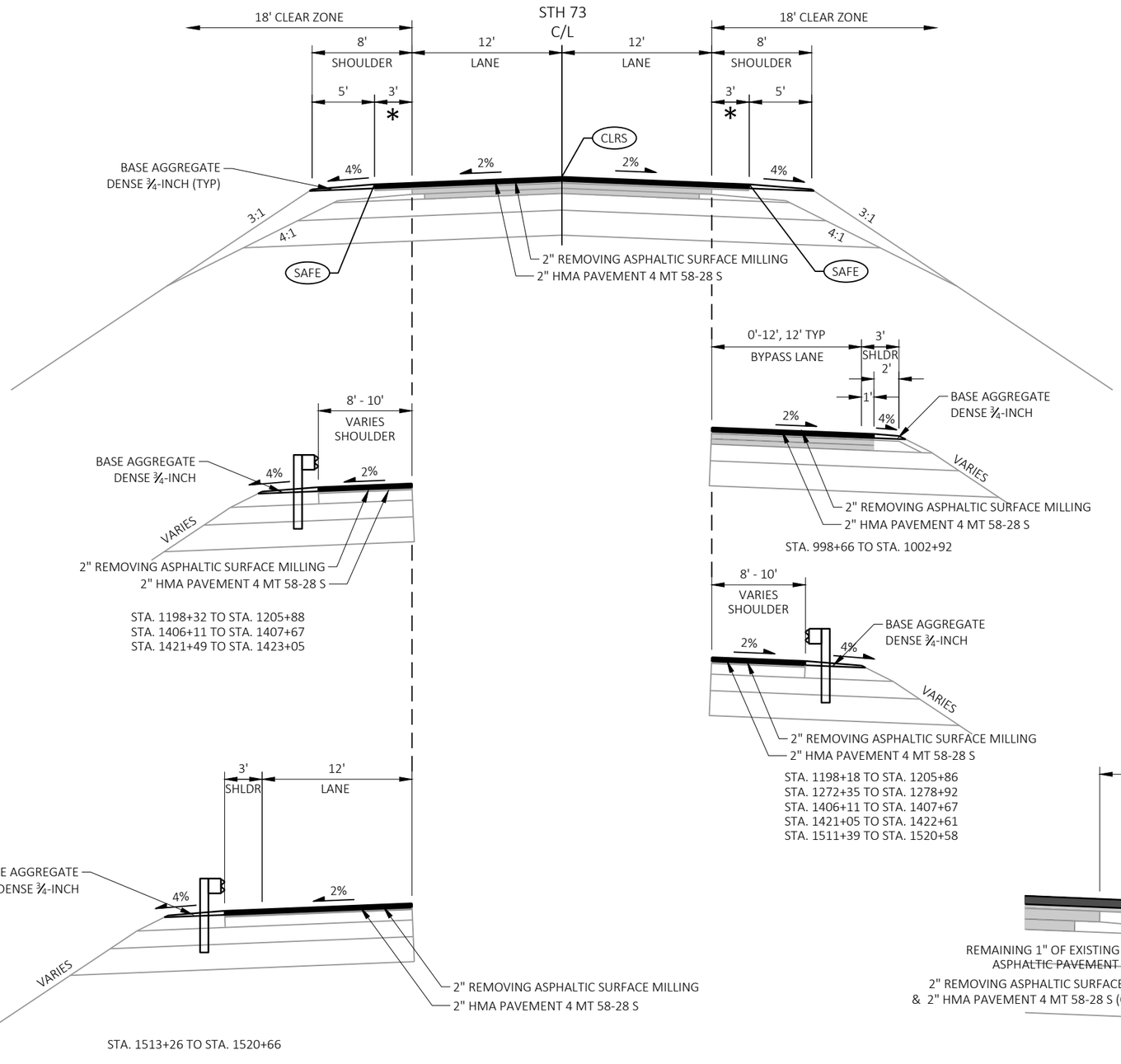


FINISHED TYPICAL SECTION - STH 73

STA. 994+85 TO STA. 998+66

NOTES:

CONSTRUCT THE PAVED SHOULDERS WITH THE SAME MIX TYPE AND THICKNESS AS THE MAINLINE.



LEGEND:

(SAFE) SAFETY EDGE

(CLRS) ASPHALTIC CENTERLINE RUMBLE STRIP 2-LANE RURAL

FINISHED TYPICAL SECTION - STH 73

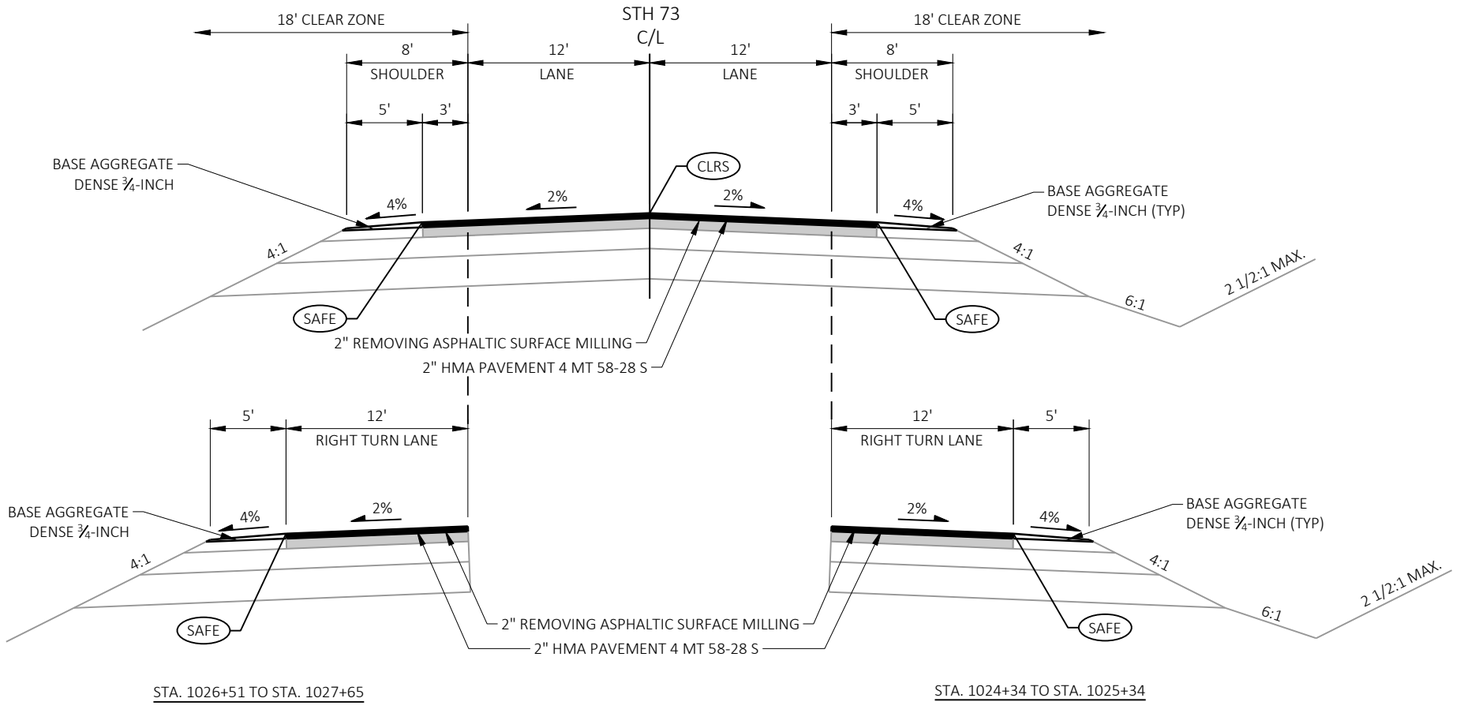
STA. 998+66 TO STA. 1022+45
STA. 1035+50 TO STA. 1522+45

* PAVED SHOULDER IS 5' WIDE FROM STA. 1304+93 TO STA. 1444+57

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	TYPICAL SECTIONS	SHEET 16	E

NOTES:

CONSTRUCT THE PAVED SHOULDERS WITH THE SAME MIX TYPE AND THICKNESS AS THE MAINLINE.

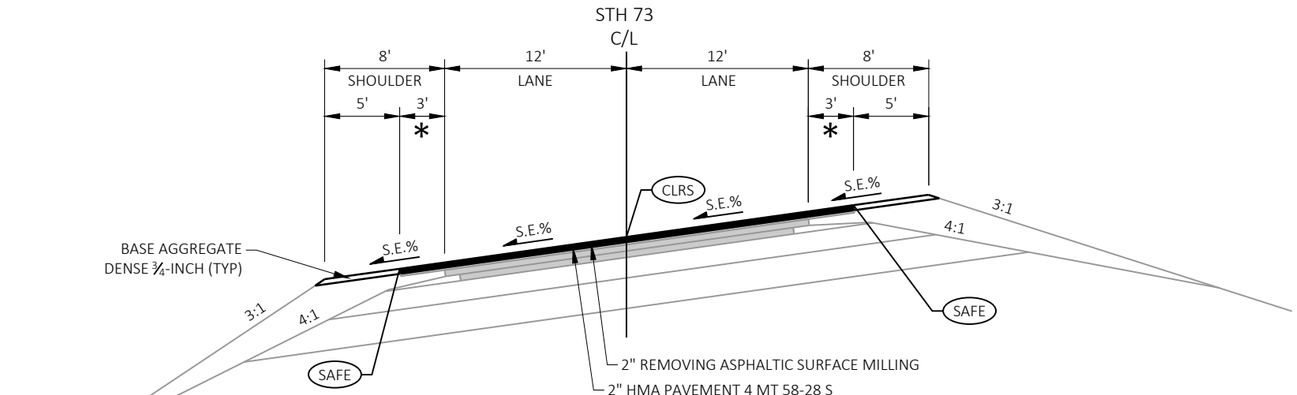


STA. 1026+51 TO STA. 1027+65

STA. 1024+34 TO STA. 1025+34

FINISHED TYPICAL SECTION - STH 73

STA. 1022+45 TO STA. 1035+50



FINISHED TYPICAL SUPERELEVATED SECTION - STH 73

(CURVE LT SHOWN, ROTATE 180° ABOUT ℄ FOR CURVE RT)

STA. - STA.	S.E.%
1153+54 - 1181+40	3.6%
1227+92 - 1240+24	5.4%
1287+79 - 1299+29	5.4%
1333+87 - 1345+32	5.4%

* PAVED SHOULDER IS 5' WIDE FROM STA. 1304+92.6 TO STA. 1444+56.6
(SEE DETAIL ON PREVIOUS PAGE)

LEGEND:

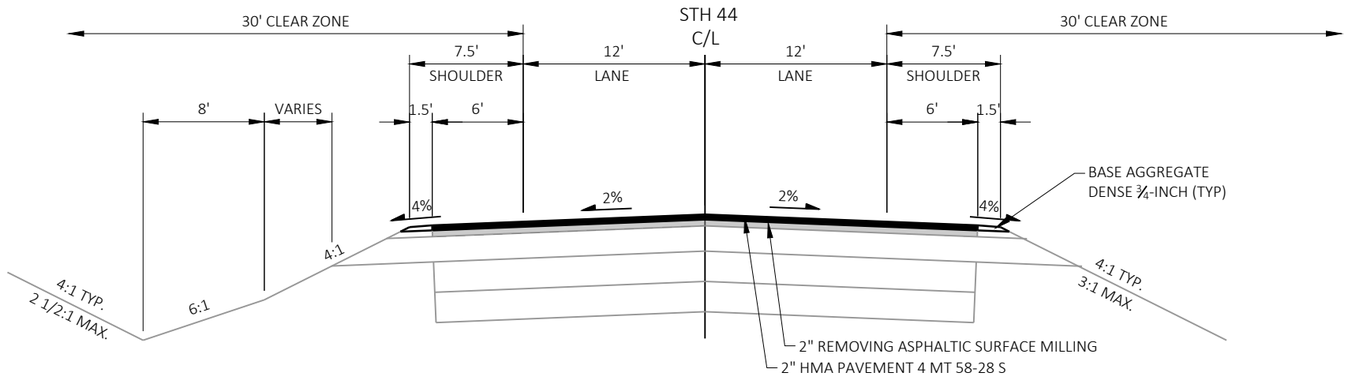
(SAFE) SAFETY EDGE

(CLRS) ASPHALTIC CENTERLINE RUMBLE STRIP 2-LANE RURAL

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	TYPICAL SECTIONS	SHEET 17	E

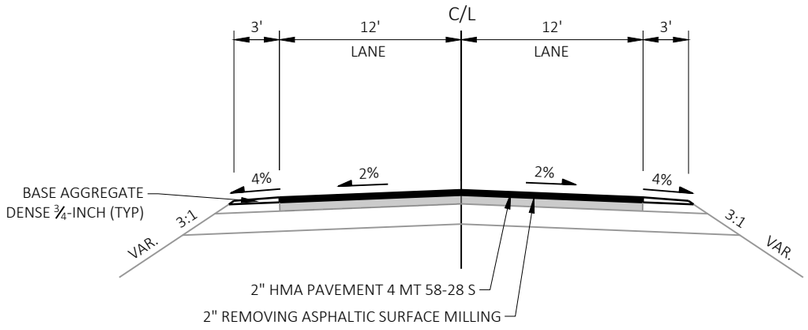
NOTES:

CONSTRUCT THE PAVED SHOULDERS WITH THE SAME MIX TYPE AND THICKNESS AS THE MAINLINE.



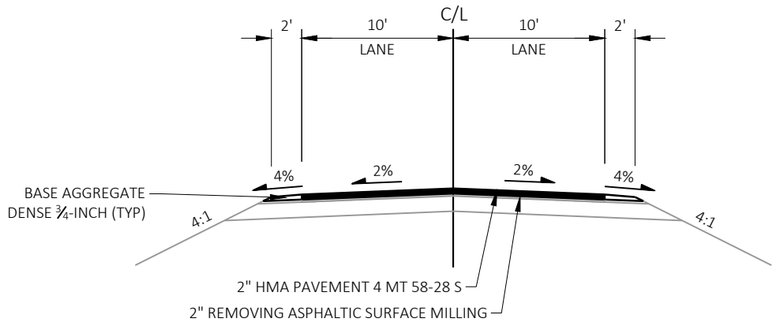
FINISHED TYPICAL SECTION - SIDEROAD

STH 44



FINISHED TYPICAL SECTION - SIDEROAD

HERITAGE ROAD
CTH S
MAPLE ROAD



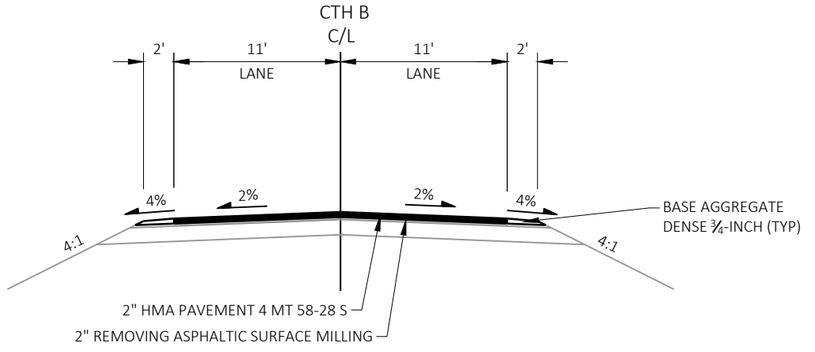
FINISHED TYPICAL SECTION - SIDEROAD

NORTH ROAD
CTH H
PHELPS ROAD
CTH BB
BEYERS COVE ROAD
REETZ ROAD

LEGEND:

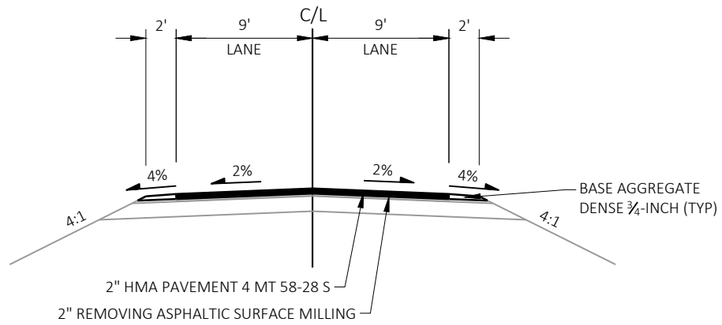
SAFE — SAFETY EDGE

CLRS — ASPHALTIC CENTERLINE RUMBLE STRIP 2-LANE RURAL



FINISHED TYPICAL SECTION - SIDEROAD

CTH B
CTH T

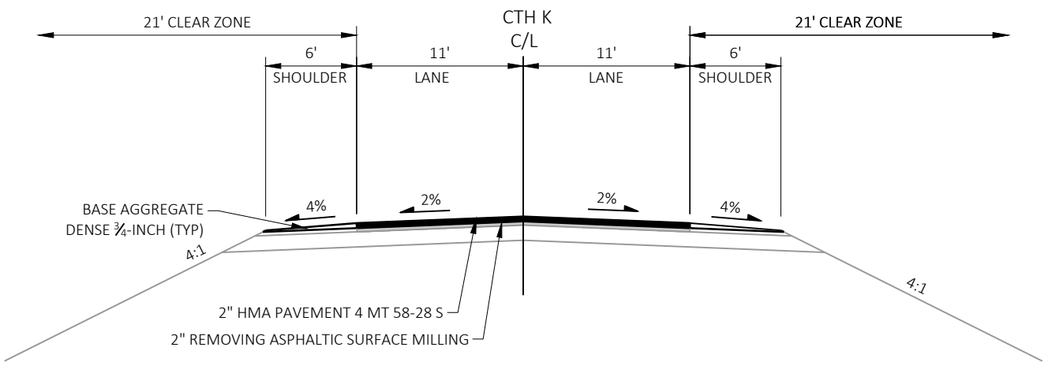


FINISHED TYPICAL SECTION - SIDEROAD

OLD DITCH ROAD
SWANSONS ROAD

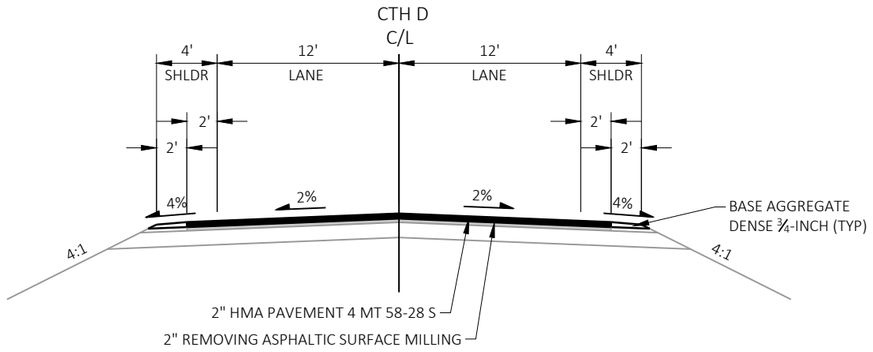
NOTES:

CONSTRUCT THE PAVED SHOULDERS WITH THE SAME MIX TYPE AND THICKNESS AS THE MAINLINE.



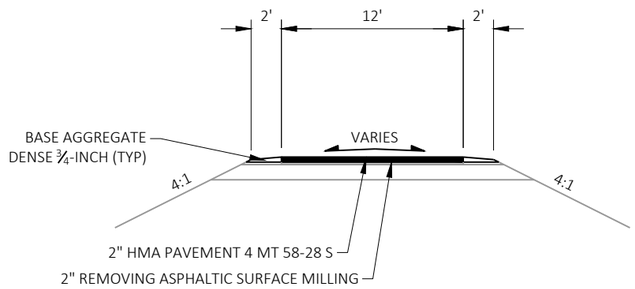
FINISHED TYPICAL SECTION - SIDEROAD

CTH K



FINISHED TYPICAL SECTION - SIDEROAD

CTH D



FINISHED TYPICAL SECTION - SIDE ROAD

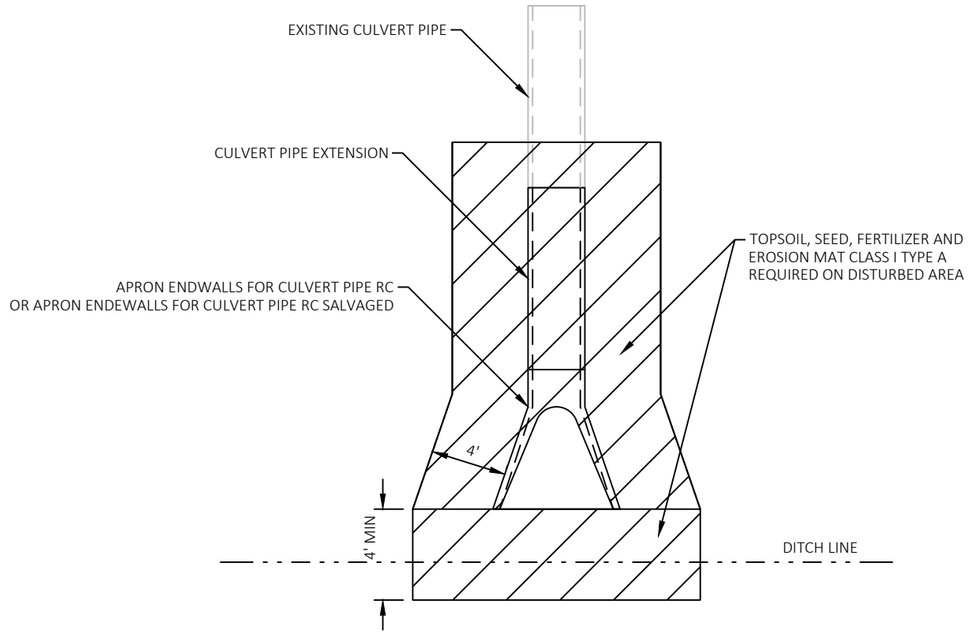
LILL AVE

LEGEND:

SAFE — SAFETY EDGE

CLRS — ASPHALTIC CENTERLINE RUMBLE STRIP 2-LANE RURAL

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	TYPICAL SECTIONS	SHEET 19	E



EROSION CONTROL FOR CROSS DRAIN RESTORATION

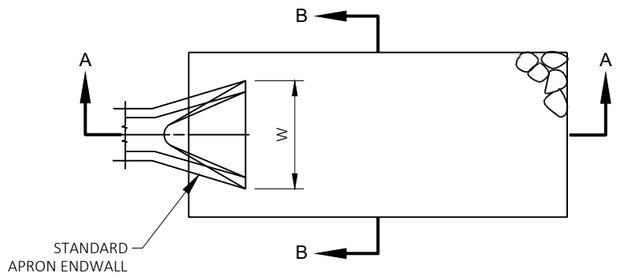
STA 412+47 RT, CULVERT PIPE EXTENSION

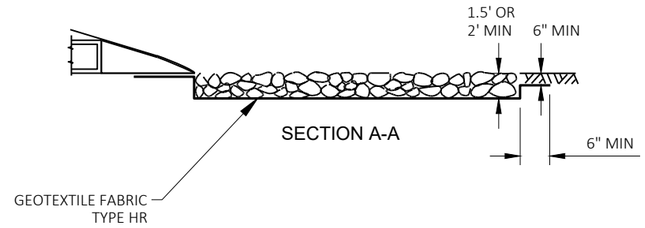
RUNOFF COEFFICIENT TABLE

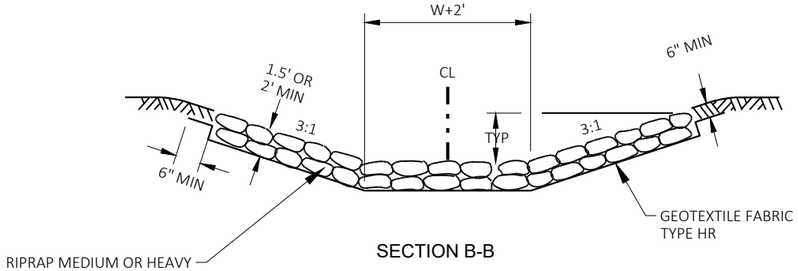
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIPTURF:	.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 SLOPETURF:			.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											

PROJECT ID: 1430-08-81
TOTAL PROJECT AREA = 7.891 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 2.275 ACRES

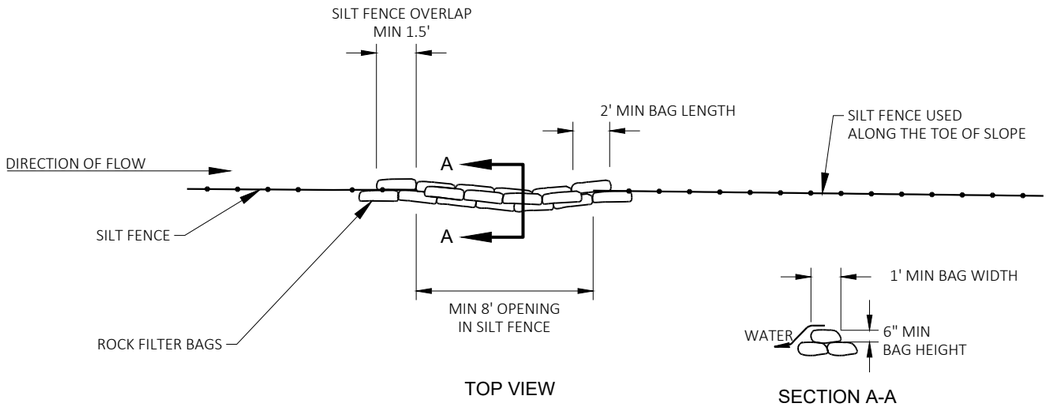
PROJECT ID: 6640-00-70
TOTAL PROJECT AREA = 158.647 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 2.541 ACRES



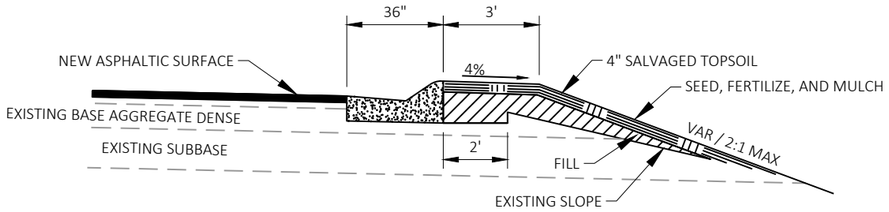




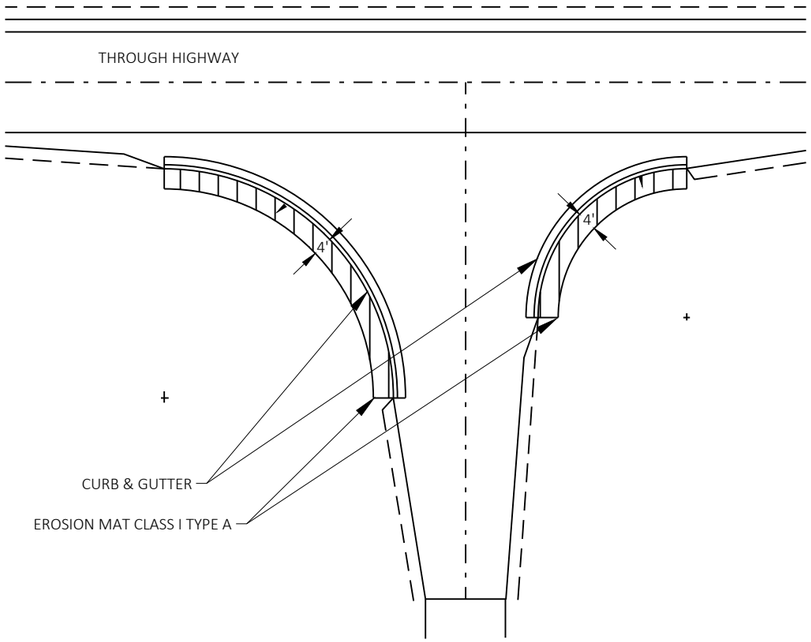
RIPRAP AND GEOTEXTILE



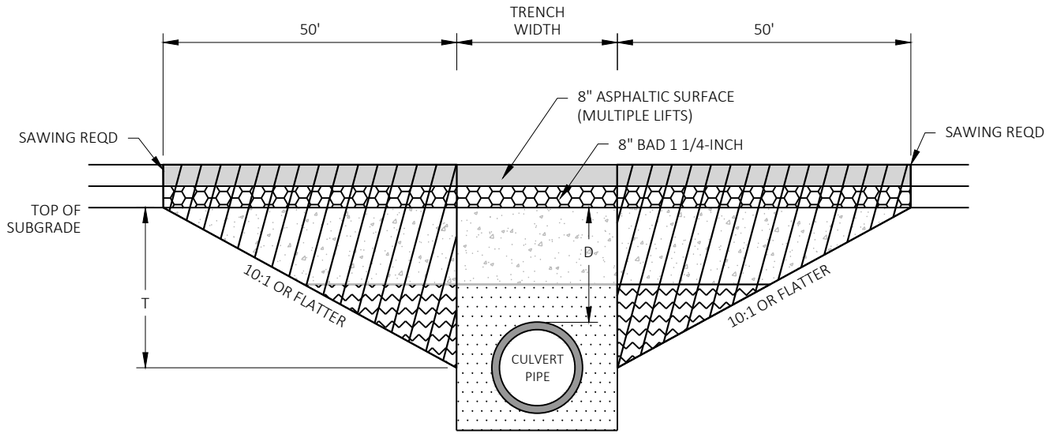
ROCK BAGS USED FOR SILT FENCE RELIEF



DETAIL OF CURB & GUTTER INSTALLATION AT INTERSECTIONS

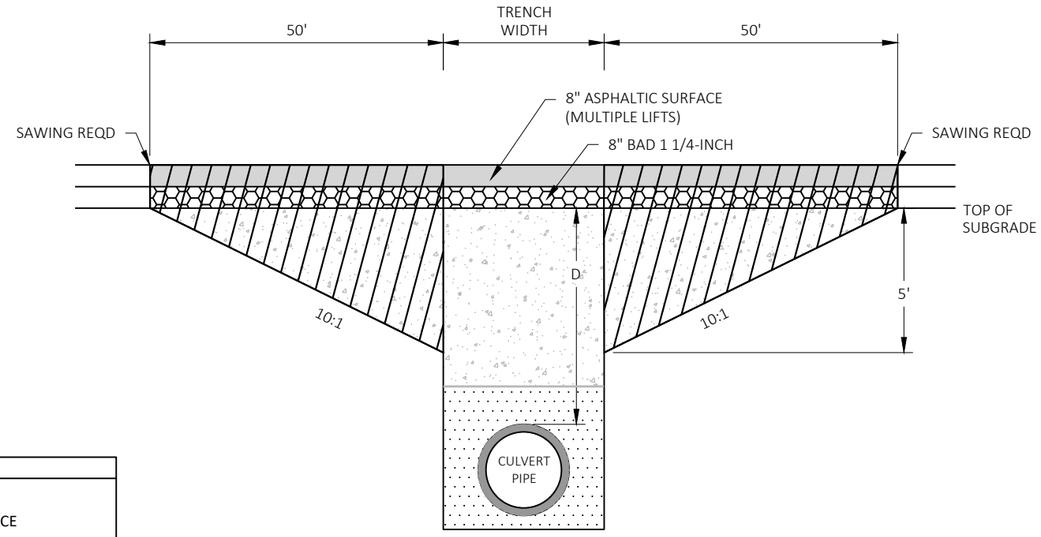


EROSION MAT DETAIL AT RURAL INTERSECTIONS



DEPTH D < 6 FT

TRANSITION CUT DEPTH (T) = THE LESSER OF DEPTH TO CENTER OF PIPE OR 5 FT.
DO NOT EXTEND TRANSITION CUT BELOW HORIZONTAL CENTER OF PIPE.



DEPTH D ≥ 6 FT

KEY

- PROPOSED SURFACE
- PROPOSED BASE
- TRENCH BACKFILL
- TRENCH OR FOUNDATION BACKFILL
- FOUNDATION BACKFILL
- TRANSITION CUT

NOTES

TRANSITION CUT IS PAID AS EXCAVATION COMMON.
TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT.
BACKFILL THE TRANSITION CUT AREAS WITH FOUNDATION AND TRENCH BACKFILL AS SPECIFIED IN STANDARD SPEC 520.
PERFORM CULVERT PIPE INSTALLATION BEFORE MILLING AND PAVING MAINLINE.
PLACE ASPHALTIC SURFACE AFTER CULVERT PIPE INSTALLATION. THEN MILL AND OVERLAY 2-INCHES WITH HMA PAVEMENT 4 MT 58-28 S.

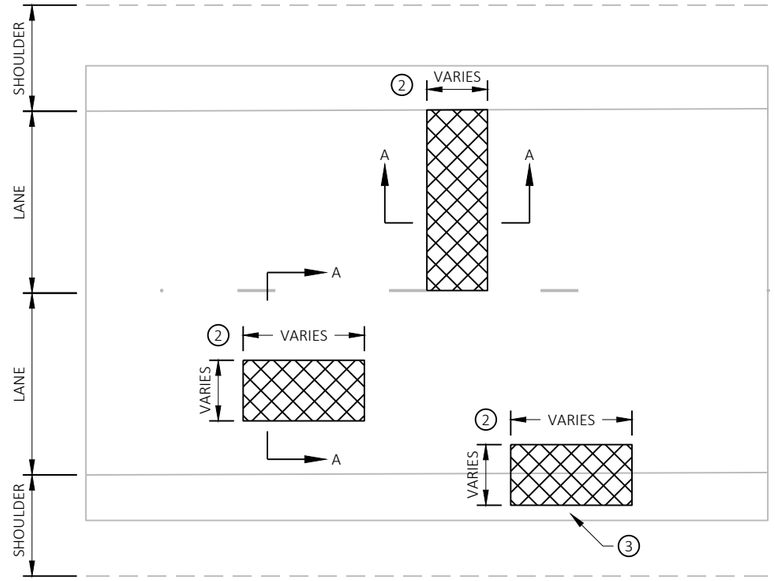
CULVERT PIPE TRANSITION

ROUTE	STA (CL)	DEPTH D (FT)	PIPE DIA (IN)	REMARKS
STH 73	1014+79	1.5'	71" X 47"	POLYMER COATED CSPA
STH 73	1042+89	2.0'	49" X 33"	POLYMER COATED CSPA
STH 73	1074+02	6.5'	36"	POLYMER COATED CPCS
STH 73	1167+30	1.5'	42" X 29"	POLYMER COATED CSPA

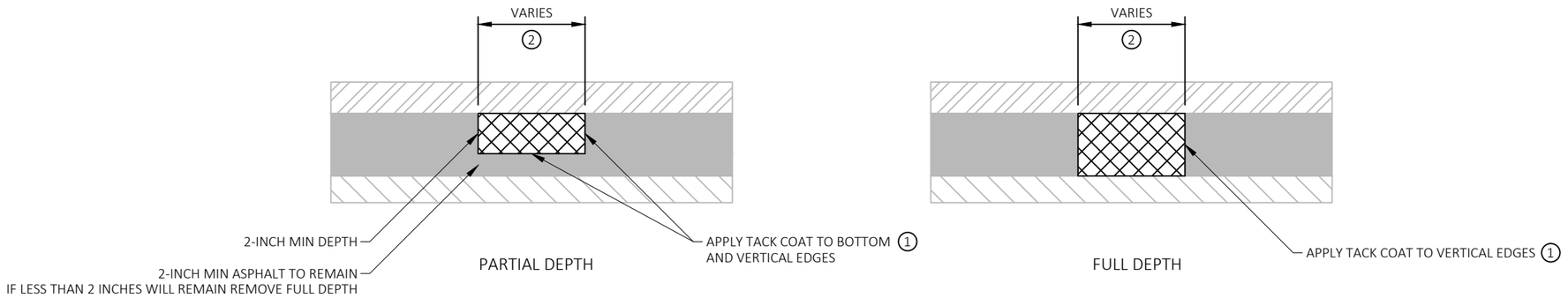
NOTES:

PERFORM REMOVING ASPHALTIC SURFACE MILLING PRIOR TO REMOVING DISTRESSED ASPHALTIC SURFACE MILLING

1. MILLED VERTICAL EDGES ARE ACCEPTABLE, SAW CUTS ARE NOT REQUIRED.
2. THE SMALLEST DIMENSION OF REMOVING DISTRESSED ASPHALTIC SURFACE MILLING IS 4 FEET IN ANY DIRECTION.
3. WHEN THE DISTANCE FROM THE EDGE OF PAVEMENT TO EDGE OF REMOVING DISTRESSED ASPHALTIC SURFACE MILLING IS LESS THAN 1-FOOT, EXTEND THE REMOVING DISTRESSED ASPHALTIC SURFACE MILLING TO THE EDGE OF PAVEMENT.



PLAN VIEW



SECTION A-A

REMOVING ASPHALTIC SURFACE MILLING

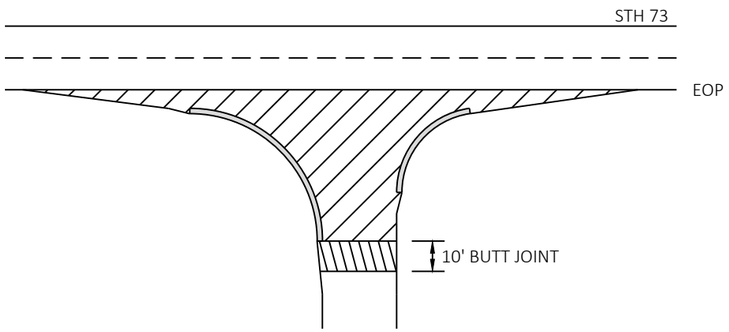
REMOVING DISTRESSED ASPHALTIC SURFACE MILLING
ASPHALTIC SURFACE PATCHING

EXISTING ASPHALT

EXISTING BASE COURSE

REMOVING DISTRESSED ASPHALTIC SURFACE MILLING

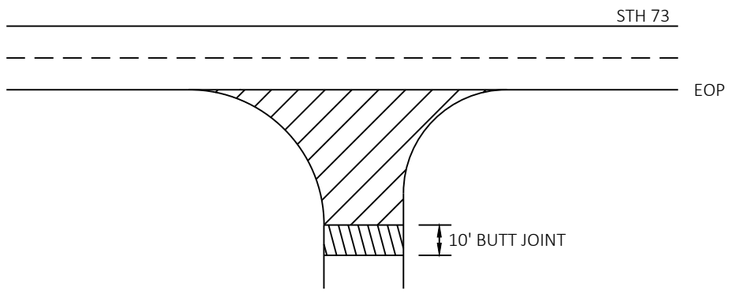
LOCATIONS AND LIMITS DETERMINED BY THE ENGINEER IN THE FIELD



REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINTS
SEE BUTT JOINT DETAIL

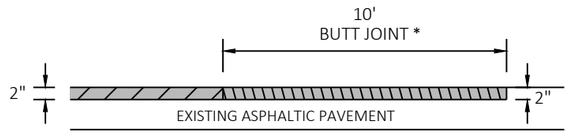
NOTE: WHEN MATCHING TO AN UNPAVED SURFACE BUTT JOINT IS NOT REQUIRED



REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINTS
SEE BUTT JOINT DETAIL

NOTE: WHEN MATCHING TO AN UNPAVED SURFACE BUTT JOINT IS NOT REQUIRED



HMA PAVEMENT

REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINTS

* 3' BUTT JOINT FOR ASPHALTIC ENTRANCES

SIDE ROADS
WITH CURB AND GUTTER

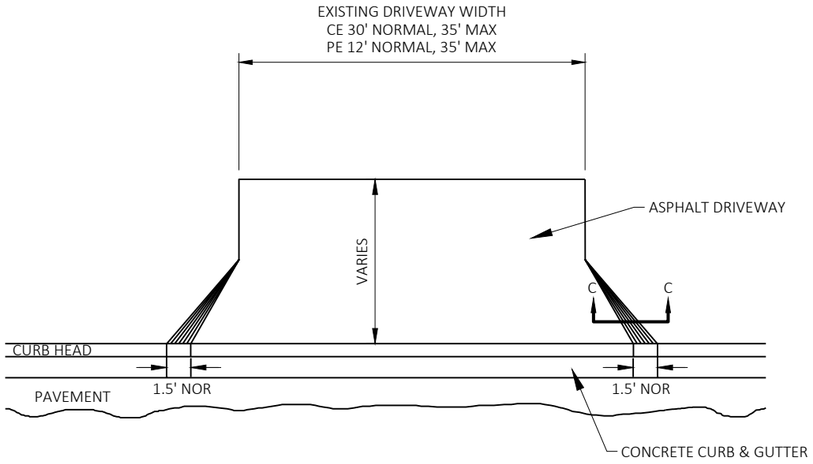
STH 44
HERITAGE RD
CTH S
CTH H
CTH BB
CTH B (EAST)
CTH K
CTH D
CTH T

SIDE ROADS
WITHOUT CURB AND GUTTER

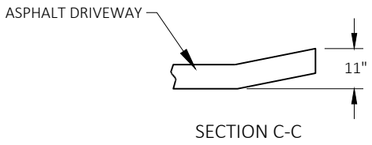
NORTH RD
PHELPS RD
CTH B (WEST)
OLD DITCH RD
MAPLE RD
SWANSONS RD
LILL AVE
BEYERS COVE RD
REETZ RD

BUTT JOINT
MAINLINE, SIDE ROADS AND ASPHALTIC ENTRANCES

2

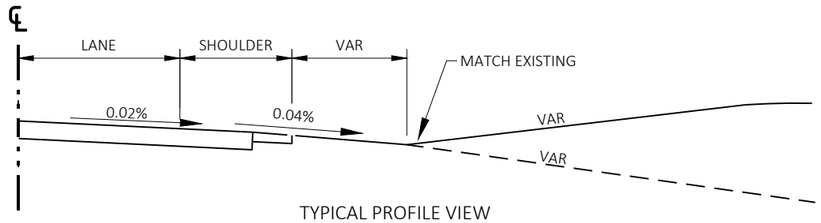


PLAN VIEW

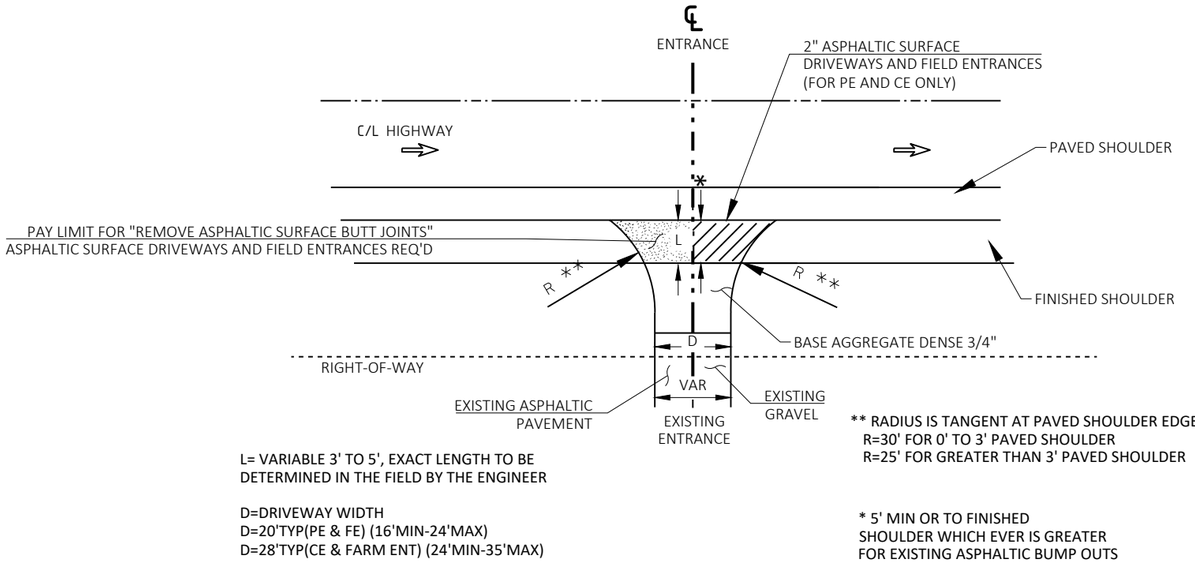


SECTION C-C

DRIVEWAY ENTRANCE WITH CURB & GUTTER



TYPICAL PROFILE VIEW



L= VARIABLE 3' TO 5', EXACT LENGTH TO BE
DETERMINED IN THE FIELD BY THE ENGINEER

D=DRIVEWAY WIDTH
D=20'TYP(PE & FE) (16'MIN-24'MAX)
D=28'TYP(CE & FARM ENT) (24'MIN-35'MAX)

** RADIUS IS TANGENT AT PAVED SHOULDER EDGE
R=30' FOR 0' TO 3' PAVED SHOULDER
R=25' FOR GREATER THAN 3' PAVED SHOULDER

* 5' MIN OR TO FINISHED
SHOULDER WHICH EVER IS GREATER
FOR EXISTING ASPHALTIC BUMP OUTS

PLAN VIEW

RURAL DRIVEWAY INTERSECTION (PE, FE & CE)

(FOR RESURFACING PROJECTS)

2

2

N

WAYSIDE

EXISTING R/W

BEGIN PROJECT 1430-08-81
STA 396+89.54

395 396 397 398 399 400

STH 23/73

STH 23/73

CONC9

5'

ALLIANT ENERGY

IP

GUY

BRIGHTSPEED

EXISTING R/W

APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA

SI

PROPOSED R/W

LEGEND

CONC9	CONCRETE PAVEMENT 9-INCH
CG 36A	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
DWAY	3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
FLUME	ASPHALTIC FLUME
XXXXXXXX	SAWCUT

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PLAN DETAILS	SHEET 26	E

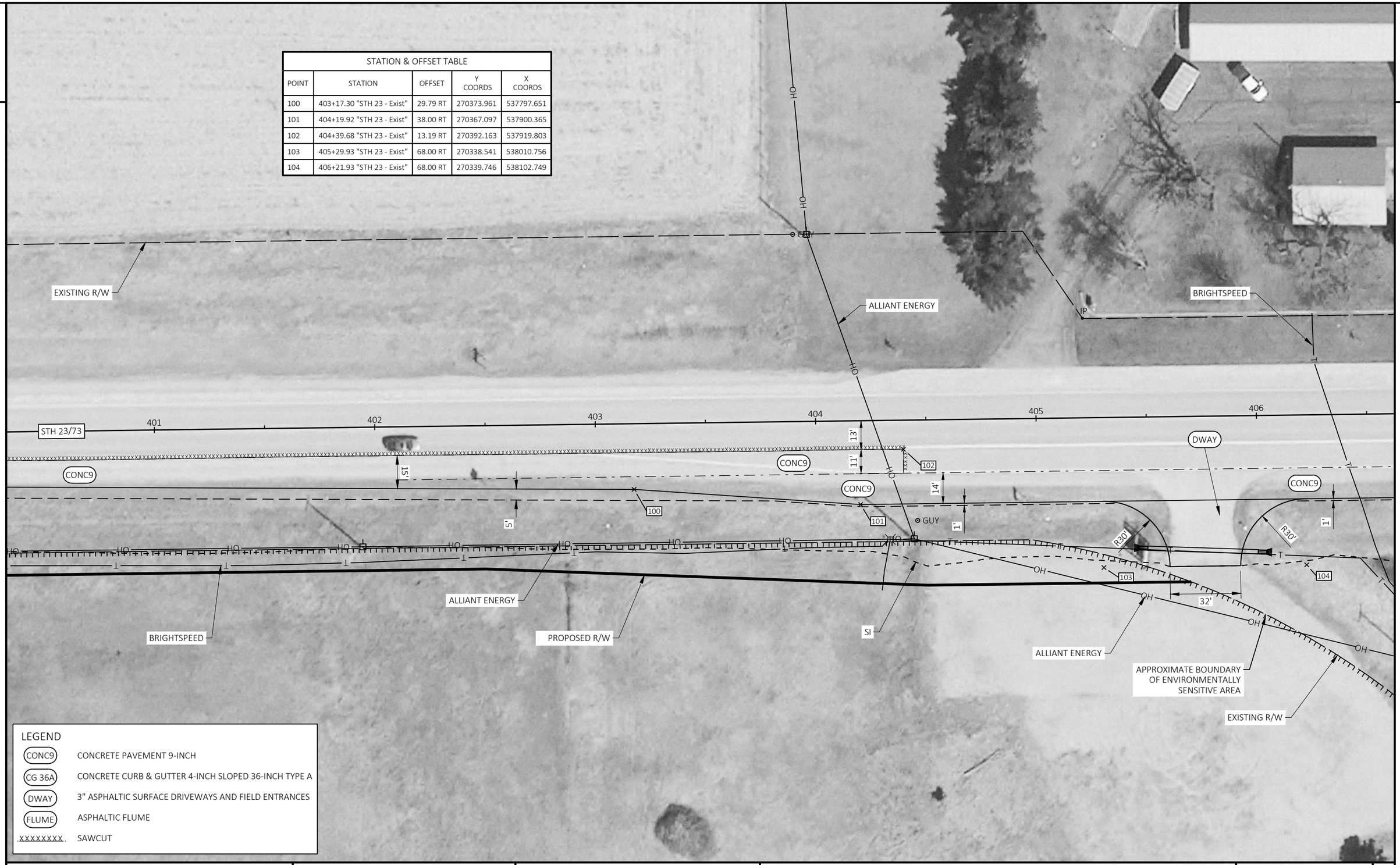
FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_021201_PD.DWG
LAYOUT NAME - 01

PLOT DATE : 9/29/2023 10:36 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
100	403+17.30 "STH 23 - Exist"	29.79 RT	270373.961	537797.651
101	404+19.92 "STH 23 - Exist"	38.00 RT	270367.097	537900.365
102	404+39.68 "STH 23 - Exist"	13.19 RT	270392.163	537919.803
103	405+29.93 "STH 23 - Exist"	68.00 RT	270338.541	538010.756
104	406+21.93 "STH 23 - Exist"	68.00 RT	270339.746	538102.749



LEGEND

CONC9	CONCRETE PAVEMENT 9-INCH
CG 36A	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
DWAY	3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
FLUME	ASPHALTIC FLUME
XXXXXXXX	SAWCUT

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PLAN DETAILS	SHEET 27	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_021201_PD.DWG
LAYOUT NAME - 02

PLOT DATE : 9/29/2023 10:36 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT


N
PYE ALLEY RD
EXISTING R/W
BRIGHTSPEED
ALLIANT ENERGY
FOLLOW JOINT LINE
STH 23/73
406
407
408
409
410
411
STH 23
DWAY
CONC9
CG 36A
FLUME
SI
R30'
R50'
R20'
24'
14'
1'
26'
12'
5'
8'
3'
32'
13'
11'
1523
1522
STH 73
WISDOT WEATHER STATION
PROPOSED R/W
APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA
GUY
ANT
EL
105
106
104
200
201
300
301
302
303
OH
FO
E
T
IP
END CONSTRUCTION
STA 1522+13.32
(MATCH PROJECT 6640-00-70)

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS
105	407+73.93 "STH 23 - Exist"	36.00 RT	270373.735	538254.317
106	407+73.93 "STH 23 - Exist"	86.00 RT	270323.740	538254.972
200	1523+01.58 "STH 73"	27.00 LT	270323.930	538304.972
201	1523+02.94 "STH 73"	18.00 RT	270325.460	538349.967
300	409+18.92 "STH 23 - Exist"	86.00 RT	270325.650	538399.966
301	409+18.92 "STH 23 - Exist"	36.00 RT	270375.646	538399.303
302	409+86.31 "STH 23 - Exist"	29.00 RT	270383.539	538466.590

LEGEND

CONC9	CONCRETE PAVEMENT 9-INCH
CG 36A	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
DWAY	3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
FLUME	ASPHALTIC FLUME
XXXXXXXX	SAWCUT

2

2

LEGEND

CONC9	CONCRETE PAVEMENT 9-INCH
CG 36A	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
DWAY	3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
FLUME	ASPHALTIC FLUME
XXXXXXXX	SAWCUT

N

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
303	411+34.07 "STH 23 - Exist"	49.00 RT	270365.501	538614.607
304	412+00.20 "STH 23 - Exist"	54.00 RT	270361.378	538680.792
305	412+80.14 "STH 23 - Exist"	29.00 RT	270387.436	538760.399
306	416+42.00 "STH 23 - Exist"	22.97 RT	270398.266	539122.145
307	417+00.00 "STH 23 - Exist"	25.00 RT	270397.002	539180.167

ALLIANT ENERGY

EXISTING R/W

OH

CONC9

411 STH 23 412 413 414 415 416 STH 23 417

13'

11'

15'

23'

25'

5'

5'

5'

303 R20' IP

R25' 304

305

306

307

T IP T

24'

PROPOSED R/W

SI

EXISTING R/W

BRIGHTSPEED

FLUME

CG 36A

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PLAN DETAILS	SHEET 29	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_021201_PD.DWG
LAYOUT NAME - 04

PLOT DATE : 9/29/2023 10:36 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

CONC9	CONCRETE PAVEMENT 9-INCH
CG 36A	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
DWAY	3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
FLUME	ASPHALTIC FLUME
XXXXXXXX	SAWCUT

N

END PROJECT 1430-08-81
STA 420+05.81

EXISTING R/W

DWAY

STH 23

417 418 419 420 421 422

25'

20'

7'

26'

CONC9

CONC9

FLUME

SI

PROPOSED TLE

CG 36A

EXISTING R/W

OH

T

2

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PLAN DETAILS	SHEET 30	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_021201_PD.DWG
LAYOUT NAME - 05

PLOT DATE : 9/29/2023 10:36 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN DETAILS - STH 44 & STH 73 SOUTHWEST QUADRANT - REMOVE EXCESS PAVEMENT	SHEET 31	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_021201_PD.DWG
LAYOUT NAME - 73-01
PLOT DATE : 9/19/2023 5:45 PM
PLOT BY : KUSCHEL, LEVI
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

STH 44

543+00

544+00

STH 44/73

997+00

998+00

999+00

1000+00

1001+00

1002+00

STH 73

N

WE ENERGIES

10' BUTT JOINT

ALLIANT ENERGY

SI

WE ENERGIES

100'

2'

3'

15'

BRIGHTSPEED

EXISTING R/W (TYP)

ALLIANT ENERGY

COMMERCIAL ENTRANCE

COMMERCIAL ENTRANCE

BRIGHTSPEED

COMMERCIAL ENTRANCE

EXISTING R/W (TYP)

COMMERCIAL ENTRANCE

BRIGHTSPEED

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN DETAILS - STH 44 & STH 73 SOUTHWEST QUADRANT - REMOVE EXCESS PAVEMENT	SHEET 32	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_021201_PD.DWG
LAYOUT NAME - 73-02

PLOT DATE : 9/19/2023 5:45 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

CULVERT #24073005020

STA 1014+78.46
REMOVE STRUCTURE
1-71" X 47" X 54' POLYMER COATED CSPA REQ'D
2-ENDWALLS REQ'D
SKEWED 4° RHF

RIPRAP HEAVY &
GEOTEXTILE TYPE HR
(SEE CONSTRUCTION DETAIL)

WE ENERGIES

SLOPE INTERCEPT (TYP)

EXISTING R/W

1012 STH 73 1014 1016 STH 73 1018

SAWCUT (TYP.)

SLOPE INTERCEPT (TYP)

EXISTING R/W

ALLIANT ENERGY

BUG TUSSEL

APPROXIMATE BOUNDARY OF
EXCAVATION FOR TRANSITION CUTS
(SEE CONSTRUCTION DETAIL)

RIPRAP HEAVY &
GEOTEXTILE TYPE HR
(SEE CONSTRUCTION DETAIL)

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN DETAILS - PIPE REPLACEMENT - STA 1014+78.46	SHEET 33	E

2

2

CULVERT #24073005021

STA 1042+88.61
REMOVE 49" X 33" X 56.3' CMPA
1-49" X 33" X 56' POLYMER COATED CSPA REQ'D
2-ENDWALLS REQ'D

WE ENERGIES

EXISTING R/W

RIPRAP HEAVY &
GEOTEXTILE TYPE HR
(SEE CONSTRUCTION DETAIL)

SLOPE INTERCEPT (TYP)

1040 STH 73 1042 1044 STH 73 1046

SAWCUT (TYP.)

SLOPE INTERCEPT (TYP)

EXISTING R/W

ALLIANT ENERGY

RIPRAP HEAVY &
GEOTEXTILE TYPE HR
(SEE CONSTRUCTION DETAIL)

BUG TUSSEL

APPROXIMATE BOUNDARY OF
EXCAVATION FOR TRANSITION CUTS
(SEE CONSTRUCTION DETAIL)

BRIGHTSPEED

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN DETAILS - PIPE REPLACEMENT - STA 1042+88.61	SHEET 34	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_021202_PD (PIPE REPLACEMENT).DWG
LAYOUT NAME - 02

PLOT DATE : 9/27/2023 10:50 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

CULVERT #24073005022

BRIGHTSPEED

WE ENERGIES

RIPRAP HEAVY &
GEOTEXTILE TYPE HR
(SEE CONSTRUCTION DETAIL)

STA 1074+02.15
REMOVE 36" X 84.5' CMP
1-36" X 84' POLYMER COATED CPCS REQ'D
2-ENDWALLS REQ'D
SKEWED 2° RHF

EXISTING R/W

SLOPE INTERCEPT (TYP)

STH 73

1072

1074

1076

STH 73

SAWCUT (TYP.)

SLOPE INTERCEPT (TYP)

EXISTING R/W

BRIGHTSPEED

ALLIANT ENERGY

RIPRAP HEAVY &
GEOTEXTILE TYPE HR
(SEE CONSTRUCTION DETAIL)

BUG TUSSEL

APPROXIMATE BOUNDARY OF
EXCAVATION FOR TRANSITION CUTS
(SEE CONSTRUCTION DETAIL)

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN DETAILS - PIPE REPLACEMENT - STA 1074+02.15	SHEET 35	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_021202_PD (PIPE REPLACEMENT).DWG
LAYOUT NAME - 03

PLOT DATE : 9/27/2023 10:50 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

CULVERT #24073005027

EXISTING R/W

WE ENERGIES

RIPRAP HEAVY &
GEOTEXTILE TYPE HR
(SEE CONSTRUCTION DETAIL)

APPROXIMATE BOUNDARY OF
EXCAVATION FOR TRANSITION CUTS
(SEE CONSTRUCTION DETAIL)

SLOPE INTERCEPT (TYP)

STH 73

1166

1168

STH 73

170

SAWCUT (TYP.)

BUG TUSSEL

SLOPE INTERCEPT (TYP)

EXISTING R/W

ALLIANT ENERGY

GUY

RIPRAP HEAVY &
GEOTEXTILE TYPE HR
(SEE CONSTRUCTION DETAIL)

STA 1167+29.99
REMOVE 42" X 29" X 57' CMPA
1-42" X 29" X 58' POLYMER COATED CSPA REQ'D
2-ENDWALLS REQ'D
SKEWED 4° RHF

BRIGHTSPEED

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN DETAILS - PIPE REPLACEMENT - STA 1167+29.99	SHEET 36	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_021202_PD (PIPE REPLACEMENT).DWG
LAYOUT NAME - 04

PLOT DATE : 9/27/2023 10:50 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN DETAILS - BEAM GUARD DETAILS	SHEET 37	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_021204_PD (BG REPLACEMENT).DWG
LAYOUT NAME - 01
PLOT DATE : 11/3/2023 12:04 PM
PLOT BY : KUSCHEL, LEVI
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

2

EXISTING R/W

ALLIANT ENERGY

WE ENERGIES

BRIGHTSPEED

1270

STH 73

1272

1274

1276

STH 73

BRIGHTSPEED

POST #1
1272+35
22.00' RT

POST #5
1272+60
21.06' RT

POST #9
1272+85
20.12' RT

MGS 3K

BUG TUSSEL

SLOPE INTERCEPT (TYP)

EXISTING R/W

BRIGHTSPEED

WE ENERGIES

ALLIANT ENERGY

EXISTING R/W

PED
825.536
2018

ALLIANT ENERGY

WE ENERGIES

STH 73

1276

1278

1280

STH 73

1282

POST #9
1276+42
20.12' RT

POST #5
1278+67
21.06' RT

POST #1
1278+92
22.00' RT

MGS 3K

EXISTING R/W

SLOPE INTERCEPT (TYP)

BRIGHTSPEED

BUG TUSSEL

TLE (TYP)

EXISTING R/W

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN DETAILS - BEAM GUARD DETAILS	SHEET 38	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_021204_PD (BG REPLACEMENT).DWG
LAYOUT NAME - 02

PLOT DATE : 11/3/2023 12:04 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

2

EXISTING R/W

BRIGHTSPEED

SLOPE INTERCEPT (TYP)

WE ENERGIES

STA 1406+94
EXISTING STRUCTURE C-24-1
7' X 5' R.C.B.C.
(TO REMAIN)

MGS 3 (LT)

EXISTING PRIVATELY OWNED FENCE
GATE TO REMAIN INPLACE

TLE (TYP)

STA 1407+62' LT
REMOVE 1 - APRON ENDWALL
12' CULVERT PIPE CORRUGATED STEEL 18" EXTENSION REQ'D
1 - APRON ENDWALL REQ'D

PT: STA 1407+58.85
-37.82' LT

SHORT RADIUS MGS
R=18', L=28.125'
# CRT POSTS = 5
FIELD BENDING SHORT RADIUS REQ'D

POST #1
1406+00
22.00' LT

POST #5
1406+25
21.06' LT

POST #9
1406+50
20.12' LT

STH 73

1404

1406

1408

1410

PC:STA 1407+40.86
-20.00' LT

POST #1
1405+88
22.00' RT

POST #5
1406+13
21.06' RT

POST #9
1406+38
20.12' RT

POST #9
1407+29
20.12' RT

POST #5
1407+54
21.06' RT

POST #1
1407+79
22.00' RT

EXISTING R/W

GREEN LAKE SANITARY DISTRICT

FIELD FIT GUARDRAIL POSTS TO
AVOID EXISTING CULVERT PIPE PER
MGS STANDARD DETAIL DRAWINGS

MGS 3 (RT)

BUG TUSSEL

SLOPE INTERCEPT (TYP)

ALLIANT ENERGY

EXISTING R/W

EXISTING R/W

EXISTING R/W

BRIGHTSPEED

WE ENERGIES

EXISTING BEAM GUARD TO REMAIN

ALLIANT ENERGY

STH 73

1420

1422

1424

STH 73

POST #1
1420+80
22.00' RT

POST #5
1421+05
21.06' RT

POST #9
1421+30
20.12' RT

POST #9
1422+11
20.12' RT

POST #5
1422+36
21.06' RT

POST #1
1422+61
22.00' RT

EXISTING R/W

ALLIANT ENERGY

ALLIANT ENERGY

SLOPE INTERCEPT (TYP)

BUG TUSSEL

MGS 3 (RT)

STA 1421+90
EXISTING STRUCTURE C-24-2
10' X 4' R.C.B.C.
(TO REMAIN)

FIELD FIT GUARDRAIL POSTS TO
AVOID EXISTING CULVERT PIPE PER
MGS STANDARD DETAIL DRAWINGS

GREEN LAKE SANITARY DISTRICT

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN DETAILS - BEAM GUARD DETAILS	SHEET 39	E

2

EXISTING R/W

APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA

ALLIANT ENERGY

BRIGHTSPEED

MGS 3 (LT)

SLOPE INTERCEPT (TYP)

POST #1 1513+22 -28.00' LT

POST #5 1513+47 -27.53' LT

POST #9 1513+72 -27.06' LT

STH 73

1510

1512

1514

1516

POST #1 1511+39 22.00' RT

POST #5 1511+64 21.06' RT

POST #9 1511+89 20.12' RT

MGS 3 (RT)

SLOPE INTERCEPT (TYP)

EXISTING R/W

EXISTING R/W

ALLIANT ENERGY

BRIGHTSPEED

MGS 3 (LT)

BRIGHTSPEED

APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA

SLOPE INTERCEPT (TYP)

STA 1519+89
EXISTING TWIN 36" CMP'S
(TO REMAIN)

POST #9 1520+16 -27.12' LT

POST #5 1520+41 -28.06' LT

POST #1 1520+66 -29.00' LT

ALLIANT ENERGY

STH 73

1516

1518

1520

1522

SLOPE INTERCEPT (TYP)

FIELD FIT GUARDRAIL POSTS TO AVOID EXISTING CULVERT PIPE PER MGS STANDARD DETAIL DRAWINGS

MGS 3 (RT)

POST #9 1520+08 20.12' RT

POST #5 1520+33 21.06' RT

POST #1 1520+58 22.00' RT

EXISTING R/W

2

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN DETAILS - BEAM GUARD DETAILS	SHEET 40	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_021204_PD (BG REPLACEMENT).DWG
LAYOUT NAME - 04

PLOT DATE : 11/3/2023 12:04 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

2

N

GUY

GUY

POST

STH 23/73

395+00

396+00

397+00

398+00

399+00

400+00

STH 23/73

856.16 856.32 856.49 856.64 856.76 856.87 857.04 857.18 857.30 857.44 857.61 857.75 857.89 858.01 858.16

IP

GUY

IP

GUY

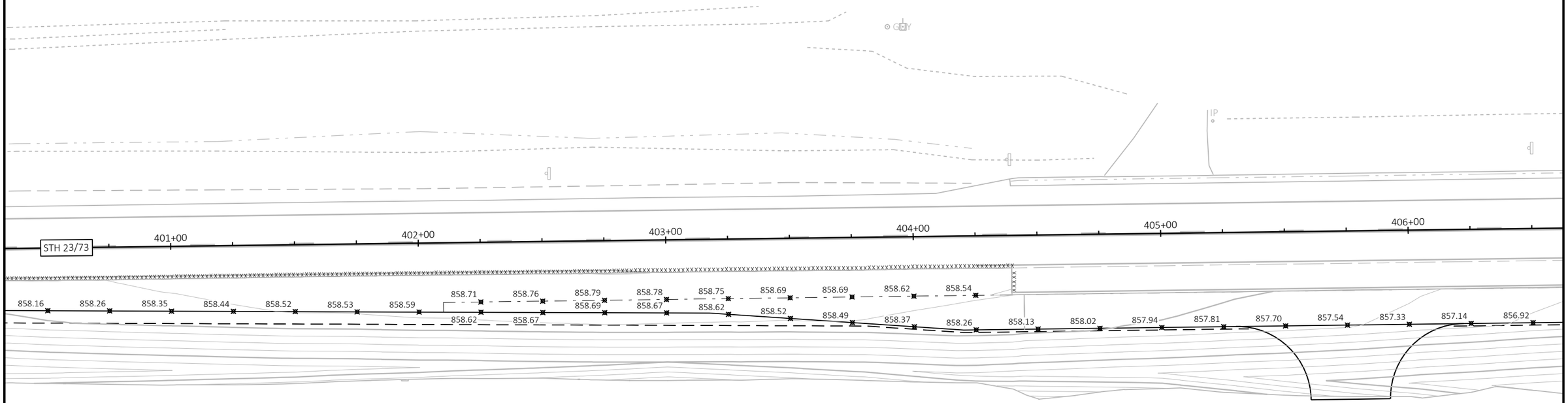
SEPV

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PAVING GRADE	SHEET 41	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_021202_PD (GRADES).DWG
LAYOUT NAME - 01

PLOT DATE : 9/26/2023 4:07 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PAVING GRADE	SHEET 42	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_021202_PD (GRADES).DWG
LAYOUT NAME - 02

PLOT DATE : 9/26/2023 4:07 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

PYE ALLEY RD

IP

IP

GUY

GUY

STH 23/73

406+00

407+00

408+00

408+88.38: 1523+88.38

409+00

410+00

411+00

STH 23

857.70

857.54

857.33

857.14

856.92

856.72

856.54

856.38

856.19

856.06

855.89

854.90

854.29

854.21

854.13

854.12

854.20

855.18

854.90

854.60

854.34

854.07

853.94

853.88

853.78

853.70

853.60

853.53

853.43

853.34

853.24

853.21

853.11

853.11

853.01

853.01

852.91

852.91

852.81

854.95

854.59

854.16

854.49

854.43

854.78

854.57

854.52

854.49

854.37

854.36

854.57

1523+00

1522+00

STH 73

FN:

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PAVING GRADE	SHEET 43	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_021202_PD (GRADES).DWG
LAYOUT NAME - 03

PLOT DATE : 9/26/2023 4:07 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

411+00 STH 23 412+00 413+00 414+00 415+00 416+00 STH 23 417+00

23'

853.21 853.11 853.01 852.91 852.85 852.85 852.87 852.82 852.89 852.94 852.90 853.01 853.10 853.21 853.35 853.50 853.68 853.89 854.10 854.30 854.55 854.82 855.10 855.37 855.70

853.11 853.01 852.91 852.81 852.75 852.75 852.77 852.72 852.79 852.84

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PAVING GRADE	SHEET 44	E

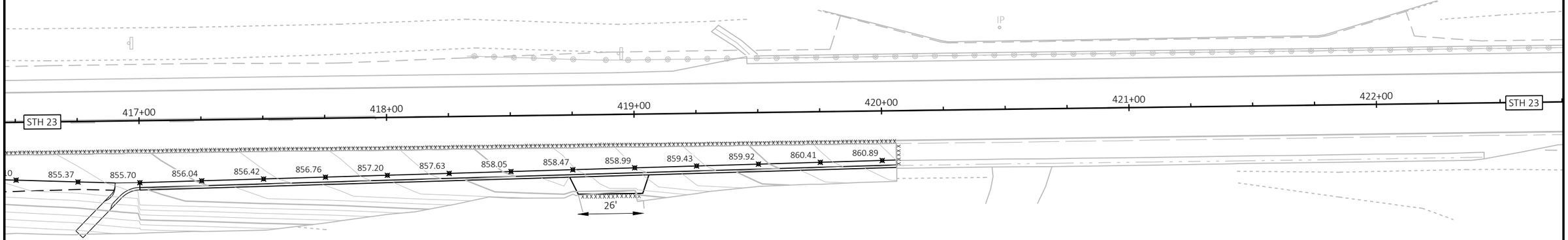
FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_021202_PD (GRADES).DWG
LAYOUT NAME - 04

PLOT DATE : 9/26/2023 4:07 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N



PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PAVING GRADE	SHEET 45	E

2

2

N

WAYSIDE

EXISTING R/W

BEGIN PROJECT 1430-08-81
STA 396+89.54

STH 23/73

395

396

397

398

399

400

STH 23/73

EXISTING R/W

PROPOSED R/W

LEGEND

- SILT FENCE
- RIPRAP MEDIUM & GEOTEXTILE TYPE HR
- EROSION MAT CLASS 1, TYPE A
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 46	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_022001_EC.DWG
LAYOUT NAME - 01

PLOT DATE : 9/19/2023 4:54 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

EXISTING R/W

STH 23/73

401

402

403

404

405

406

PROPOSED R/W

EXISTING R/W

LEGEND

- SILT FENCE
- RIPRAP MEDIUM & GEOTEXTILE TYPE HR
- EROSION MAT CLASS 1, TYPE A
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 47	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_022001_EC.DWG
LAYOUT NAME - 02

PLOT DATE : 9/19/2023 4:54 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

PYE ALLEY RD

N

EXISTING R/W

EXISTING R/W

STH 23/73

406

407

408

409

410

411

STH 23

4'

4'

1523

1522

STH 73

PROPOSED R/W

EXISTING R/W

SILT FENCE RELIEF
(SEE CONS. DETAIL)

PROPOSED R/W

EXISTING R/W

END CONSTRUCTION
STA 1522+13.32
(MATCH PROJECT 6640-00-70)

LEGEND

- SILT FENCE
- RIPRAP MEDIUM & GEOTEXTILE TYPE HR
- EROSION MAT CLASS 1, TYPE A
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 48	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_022001_EC.DWG
LAYOUT NAME - 03

PLOT DATE : 9/19/2023 4:55 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- SILT FENCE
- RIPRAP MEDIUM & GEOTEXTILE TYPE HR
- EROSION MAT CLASS 1, TYPE A
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

EXISTING R/W

411 STH 23 412 413 414 415 416 STH 23 417

SILT FENCE RELIEF (SEE CONS. DETAIL)

EXISTING R/W

PROPOSED R/W

SILT FENCE RELIEF (SEE CONS. DETAIL)

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 49	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_022001_EC.DWG
LAYOUT NAME - 04

PLOT DATE : 9/19/2023 4:55 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- SILT FENCE
- RIPRAP MEDIUM & GEOTEXTILE TYPE HR
- EROSION MAT CLASS 1, TYPE A
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

2

EXISTING R/W

END PROJECT 1430-08-81
STA 420+05.81

STH 23 417 418 419 420 421 422 STH 23

SILT FENCE RELIEF
(SEE CONS. DETAIL)

PROPOSED TLE

EXISTING R/W

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 50	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_022001_EC.DWG
LAYOUT NAME - 05

PLOT DATE : 9/19/2023 4:55 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- SILT FENCE
- RIPRAP HEAVY & GEOTEXTILE TYPE HR
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS II, TYPE B
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

STH 44

EXISTING R/W

SILT FENCE RELIEF
(SEE CONS. DETAIL)

PI: 999+31.98

994 STH 73 996 998 STH 73 1000

EXISTING R/W

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	EROSION CONTROL - STA 1014+78.46	SHEET 51	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_022001_EC.DWG
LAYOUT NAME - 00

PLOT DATE : 11/9/2023 10:03 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

CULVERT #24073005020

EXISTING R/W

1012 STH 73 1014 1016 STH 73 1018

DEWATERING MAY BE REQUIRED

EXISTING R/W

LEGEND

- SILT FENCE
- RIPRAP HEAVY & GEOTEXTILE TYPE HR
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS II, TYPE B
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	EROSION CONTROL - STA 1014+78.46	SHEET 52	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_022001_EC.DWG
LAYOUT NAME - 01

PLOT DATE : 11/9/2023 10:03 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

CULVERT #24073005022

EXISTING R/W

STH 73

1072

1074

1076

STH 73

EXISTING R/W

LEGEND

- SILT FENCE
- RIPRAP HEAVY & GEOTEXTILE TYPE HR
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS II, TYPE B
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	EROSION CONTROL - STA 1074+02.15	SHEET 53	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_022001_EC.DWG
LAYOUT NAME - 03

PLOT DATE : 11/9/2023 10:03 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

CULVERT #24073005021

EXISTING R/W

1040 STH 73 1042 1044 STH 73 1046

EXISTING R/W

LEGEND

- SILT FENCE
- RIPRAP HEAVY & GEOTEXTILE TYPE HR
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS II, TYPE B
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	EROSION CONTROL - STA 1042+88.61	SHEET 54	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_022001_EC.DWG
LAYOUT NAME - 02

PLOT DATE : 11/9/2023 10:03 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

CULVERT #24073005027

EXISTING R/W

STH 73

1166

1168

1170

STH 73

EXISTING R/W

N

LEGEND

- SILT FENCE
- RIPRAP HEAVY & GEOTEXTILE TYPE HR
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS II, TYPE B
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	EROSION CONTROL - STA 1167+29.99	SHEET 55	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_022001_EC.DWG
LAYOUT NAME - 04

PLOT DATE : 11/9/2023 10:03 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 56	E

2

2

N

STH 73

1208

1206

1204

1202

EXISTING R/W

EXISTING R/W

SILT FENCE RELIEF
(SEE CONS. DETAIL)

STA 1203+26
EXISTING 30" CMCP
(TO REMAIN)

LEGEND

- SILT FENCE
- RIPRAP HEAVY & GEOTEXTILE TYPE HR
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS II, TYPE B
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 57	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_022001_EC.DWG
LAYOUT NAME - 06

PLOT DATE : 11/9/2023 10:03 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

EXISTING R/W

N

1270 STH 73 1272 1274 1276 STH 73

EXISTING R/W

N

EXISTING R/W

STH 73 1276 1278 1280 STH 73 1282

TLE (TYP)

EXISTING R/W

EXISTING R/W

LEGEND

- SILT FENCE
- RIPRAP HEAVY & GEOTEXTILE TYPE HR
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS II, TYPE B
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 58	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_022001_EC.DWG
LAYOUT NAME - 07

PLOT DATE : 11/9/2023 10:03 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

STA 1406+94
EXISTING STRUCTURE C-24-1
7' X 5' R.C.B.C.
(TO REMAIN)

TLE (TYP)

EXISTING R/W

EXISTING R/W

STH 73

1404

1406

1408

1410

STH 73

EXISTING R/W

EXISTING R/W

LEGEND

- SILT FENCE
- RIPRAP HEAVY & GEOTEXTILE TYPE HR
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS II, TYPE B
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

EXISTING R/W

EXISTING R/W

N

STH 73

1420

1422

1424

STH 73

EXISTING R/W

STA 1421+90
EXISTING STRUCTURE C-24-2
10' X 4' R.C.B.C.
(TO REMAIN)

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 59	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_022001_EC.DWG
LAYOUT NAME - 08

PLOT DATE : 11/9/2023 10:03 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

2

EXISTING R/W

N

EXISTING R/W

STH 73

1510

1512

1514

1516

STH 73

SILT FENCE RELIEF
(SEE CONS. DETAIL)

EXISTING R/W

EXISTING R/W

N

STA 1519+89
EXISTING TWIN 36" CMP'S
(TO REMAIN)

STH 73

1516

1518

1520

1522

STH 73

SILT FENCE RELIEF
(SEE CONS. DETAIL)

SILT FENCE RELIEF
(SEE CONS. DETAIL)

EXISTING R/W

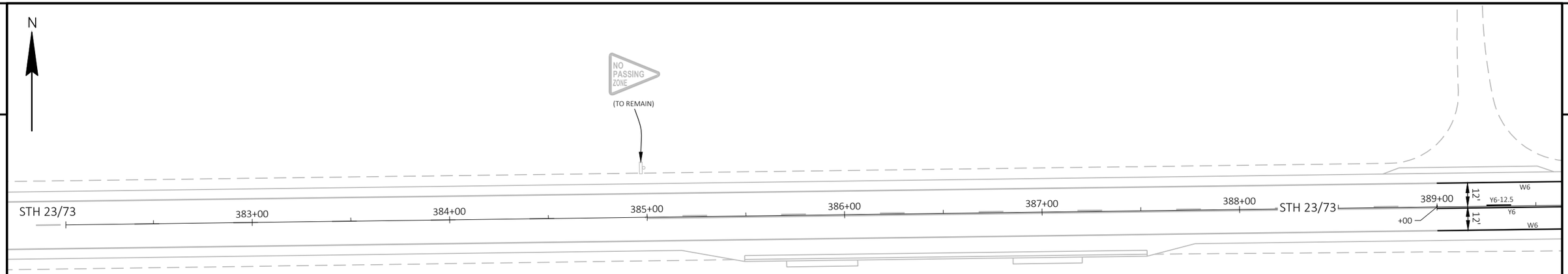
LEGEND

- SILT FENCE
- RIPRAP HEAVY & GEOTEXTILE TYPE HR
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS II, TYPE B
- SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	EROSION CONTROL	SHEET 60	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_022001_EC.DWG
LAYOUT NAME - 09

PLOT DATE : 11/9/2023 10:04 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT



LEGEND

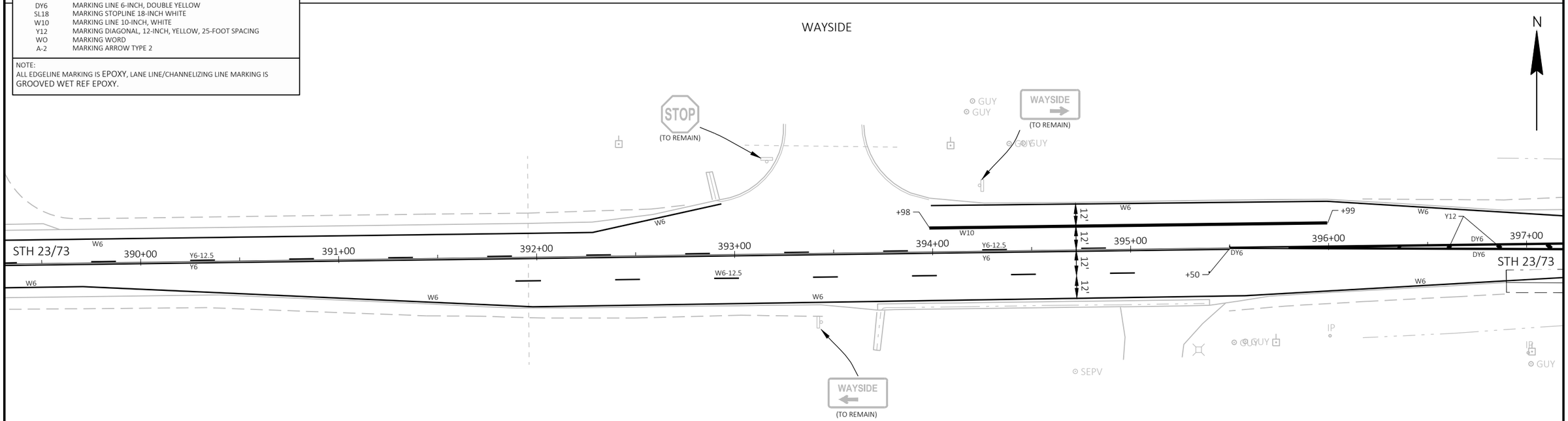
PROPOSED OR MOVED SIGN ON SINGLE/DOUBLE SUPPORT

M-XX — MOVE EXISTING SIGN NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)

LABEL	DESCRIPTION
W6	MARKING LINE 6-INCH, WHITE
W6-12.5	MARKING LINE 6-INCH, WHITE, 12.5' SEG., 37.5' GAP
Y6-12.5	MARKING LINE 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
Y6	MARKING LINE 6-INCH, YELLOW
DY6	MARKING LINE 6-INCH, DOUBLE YELLOW
SL18	MARKING STOPLINE 18-INCH WHITE
W10	MARKING LINE 10-INCH, WHITE
Y12	MARKING DIAGONAL, 12-INCH, YELLOW, 25-FOOT SPACING
WO	MARKING WORD
A-2	MARKING ARROW TYPE 2

NOTE:
ALL EDGELINE MARKING IS EPOXY, LANE LINE/CHANNELIZING LINE MARKING IS GROOVED WET REF EPOXY.

WAYSIDE



PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PERMANENT SIGNING & MARKING	SHEET 61	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_023201_PS.DWG
LAYOUT NAME - 01
PLOT DATE : 11/3/2023 1:47 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

Princeton 3
(TO REMAIN)

SPEED LIMIT 55
(TO REMAIN)

397+00 398+00 399+00 400+00 401+00 402+00 403+00 404+00

STH 23/73

STH 23/73

Green Lake
Randolph
M1-01

EAST SOUTH 23 73
M1-02

LEGEND

PROPOSED OR MOVED SIGN ON SINGLE/DOUBLE SUPPORT

M-XX — MOVE EXISTING SIGN NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)

LABEL	DESCRIPTION
W6	MARKING LINE 6-INCH, WHITE
W6-12.5	MARKING LINE 6-INCH, WHITE, 12.5' SEG., 37.5' GAP
Y6-12.5	MARKING LINE 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
Y6	MARKING LINE 6-INCH, YELLOW
DY6	MARKING LINE 6-INCH, DOUBLE YELLOW
SL18	MARKING STOPLINE 18-INCH WHITE
W10	MARKING LINE 10-INCH, WHITE
Y12	MARKING DIAGONAL, 12-INCH, YELLOW, 25-FOOT SPACING
WO	MARKING WORD
A-2	MARKING ARROW TYPE 2

NOTE:
ALL EDGELINE MARKING IS EPOXY, LANE LINE/CHANNELIZING LINE MARKING IS GROOVED WET REF EPOXY.

WEST NORTH 23 73
(TO REMAIN)

STOP
(TO REMAIN)

SOUTH NORTH 73 73
(TO REMAIN)

405+00 406+00 407+00 408+00 409+00 410+00 411+00 412+00

STH 23/73

STH 23

SOUTH 73
M2-01

R1-03
REMOVE
(SHARED POST)

R1-02
REMOVE
(SHARED POST)

EAST 23
M2-06

REMOVE
R1-01

STOP
M2-02

WEST NORTH EAST 23 73 23
M2-03

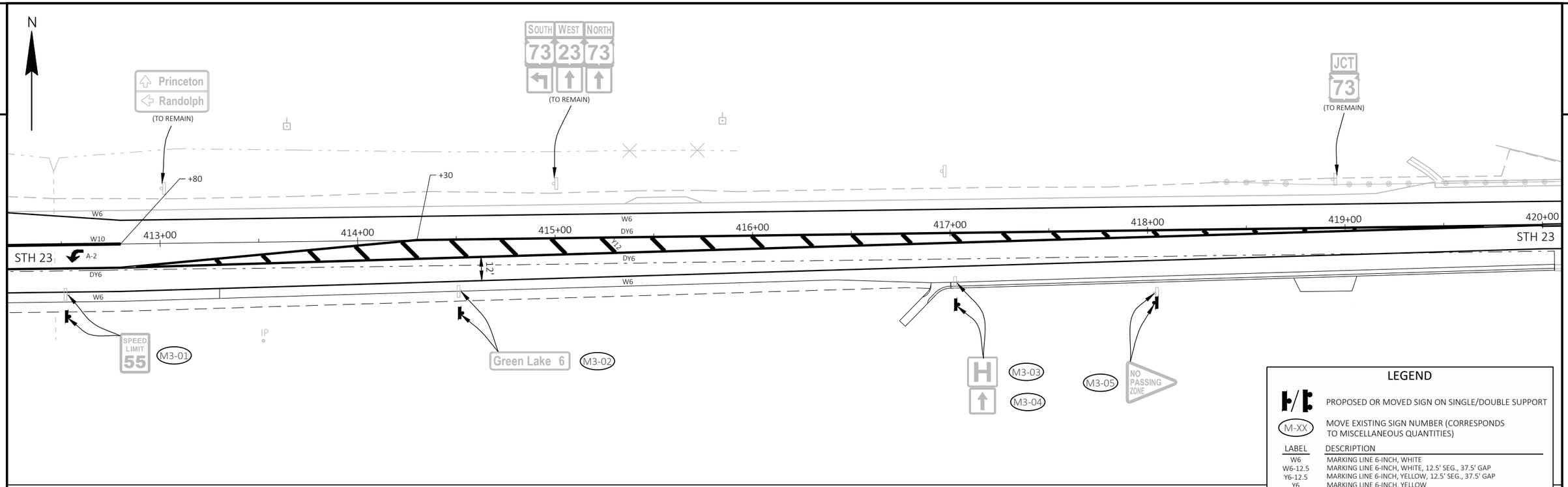
H
M2-05
M2-04

N

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PERMANENT SIGNING & MARKING	SHEET 62	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_023201_PS.DWG
LAYOUT NAME - 02

PLOT DATE : 11/3/2023 1:47 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT



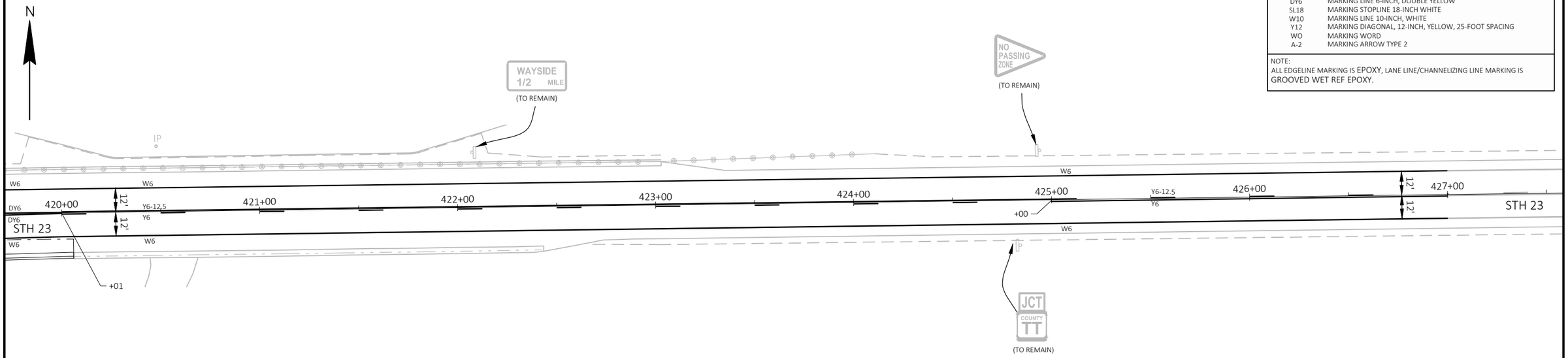
LEGEND

PROPOSED OR MOVED SIGN ON SINGLE/DOUBLE SUPPORT

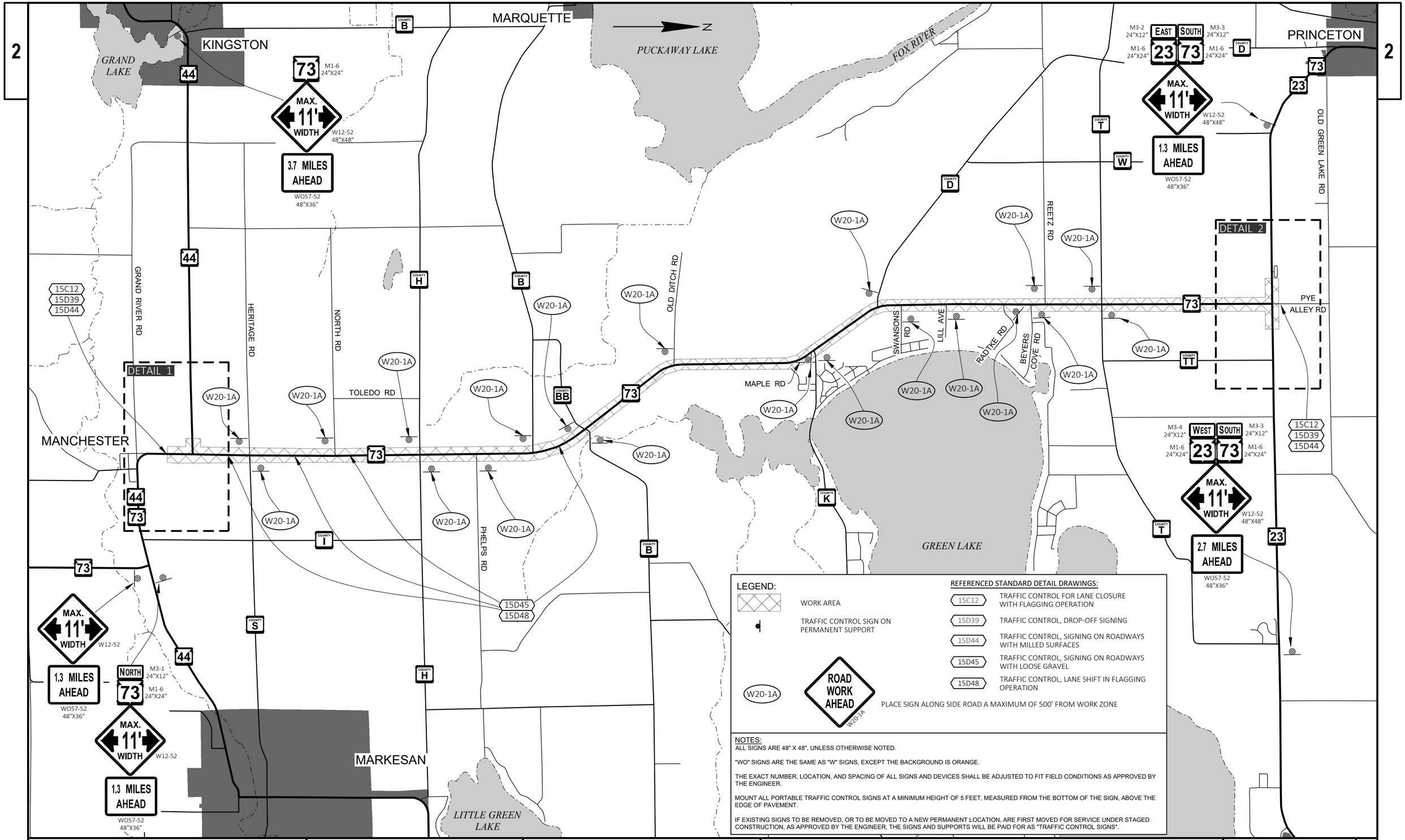
M-XX — MOVE EXISTING SIGN NUMBER (CORRESPONDS TO MISCELLANEOUS QUANTITIES)

LABEL	DESCRIPTION
W6	MARKING LINE 6-INCH, WHITE
W6-12.5	MARKING LINE 6-INCH, WHITE, 12.5' SEG., 37.5' GAP
Y6-12.5	MARKING LINE 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
Y6	MARKING LINE 6-INCH, YELLOW
DY6	MARKING LINE 6-INCH, DOUBLE YELLOW
SL18	MARKING STOPLINE 18-INCH WHITE
W10	MARKING LINE 10-INCH, WHITE
Y12	MARKING DIAGONAL, 12-INCH, YELLOW, 25-FOOT SPACING
WO	MARKING WORD
A-2	MARKING ARROW TYPE 2

NOTE:
ALL EDGELINE MARKING IS EPOXY, LANE LINE/CHANNELIZING LINE MARKING IS GROOVED WET REF EPOXY.



PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PERMANENT SIGNING & MARKING	SHEET 63	E



PROJECT NO: 1430-08-81 & 6640-00-70	HWY: STH 23 & STH 73	COUNTY: GREEN LAKE	TRAFFIC CONTROL - OVERVIEW & ADVANCE WARNING SIGNS - SIDEROADS	SHEET 64	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_025001_TC (AWS AND WIDTH RES).DWG
LAYOUT NAME - - OVERVIEW & ADVANCE WARNING SIGNS - SIDEROADS
PLOT DATE : 9/19/2023 6:05 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:4000 FT

2

N

EB STH 44

**HWY 73
ROAD WORK
BEGINS XXX-XX**

G20-57
72"X36"

(IN PLACE 7 DAYS PRIOR TO STARTING CONSTRUCTION. REMOVE WHEN CONSTRUCTION BEGINS)

**END
ROAD WORK**

G20-2A
48"X24"

**ROAD WORK
NEXT 10 MILES**

G20-1
60"X24"

NB STH 73
WB STH 44

**HWY 73
ROAD WORK
BEGINS XXX-XX**

G20-57
72"X36"

(IN PLACE 7 DAYS PRIOR TO STARTING CONSTRUCTION. REMOVE WHEN CONSTRUCTION BEGINS)

73

44

1000'

500'

500'

500'

500'

1000'

ROAD WORK AHEAD W20-1A

ROAD WORK 1000 FT W20-1C

MAX. 11' WIDTH W12-52

ROAD WORK 500 FT W20-1D

ROAD WORK 500 FT W20-1D

MAX. 11' WIDTH W12-52

ROAD WORK 1000 FT W20-1C

ROAD WORK AHEAD W20-1A

**END
ROAD WORK**

G20-2A
48"X24"

GRAND RIVER RD

DIVISION ST

SCHOOL ST

MADISON ST

HIGH ST

MAIN ST

MARKESAN

44

73

LEGEND:

WORK AREA

TRAFFIC CONTROL SIGN ON PERMANENT SUPPORT(S)

NOTES:

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 AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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.

IF EXISTING SIGNS TO BE REMOVED, OR TO BE MOVED TO A NEW PERMANENT LOCATION, ARE FIRST MOVED FOR SERVICE UNDER STAGED CONSTRUCTION, AS APPROVED BY THE ENGINEER, THE SIGNS AND SUPPORTS WILL BE PAID FOR AS "TRAFFIC CONTROL SIGNS".

2

PROJECT NO: 1430-08-81 & 6640-00-70	HWY: STH 23 & STH 73	COUNTY: GREEN LAKE	TRAFFIC CONTROL - ADVANCE WARNING SIGNING - DETAIL 1	SHEET 65	E

2

LEGEND:

WORK AREA

TRAFFIC CONTROL SIGN ON PERMANENT SUPPORT(S)

NOTES:
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 AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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.

IF EXISTING SIGNS TO BE REMOVED, OR TO BE MOVED TO A NEW PERMANENT LOCATION, ARE FIRST MOVED FOR SERVICE UNDER STAGED CONSTRUCTION, AS APPROVED BY THE ENGINEER, THE SIGNS AND SUPPORTS WILL BE PAID FOR AS "TRAFFIC CONTROL SIGNS".

N

PYE ALLEY RD

500' MAX

ROAD WORK AHEAD
W20-1A

MAX. 11' WIDTH
W12-52

END ROAD WORK
G20-2A
48"X24"

WAYSIDE

WB STH 23

HWY 23/73 ROAD WORK BEGINS XXX-XX
G20-57
72"X36"
(IN PLACE 7 DAYS PRIOR TO STARTING CONSTRUCTION. REMOVE WHEN CONSTRUCTION BEGINS)

ROAD WORK 500 FT
W20-1D

ROAD WORK 1000 FT
W20-1C

500' 500' 1000'

M3-4 24"X12" WEST SOUTH M3-3 24"X12"
M1-6 24"X24" 23 73 M1-6 24"X24"

ROAD WORK AHEAD
W20-1A

ROAD WORK NEXT 10 MILES
G20-1
60"X24"

EB STH 23
SB STH 73

HWY 23/73 ROAD WORK BEGINS XXX-XX
G20-57
72"X36"
(IN PLACE 7 DAYS PRIOR TO STARTING CONSTRUCTION. REMOVE WHEN CONSTRUCTION BEGINS)

1000' 500' 500'

M3-2 24"X12" EAST SOUTH M3-3 24"X12"
M1-6 24"X24" 23 73 M1-6 24"X24"

ROAD WORK AHEAD
W20-1A

ROAD WORK 1000 FT
W20-1C

ROAD WORK 500 FT
W20-1D

END ROAD WORK
G20-2A
48"X24"

MAX. 11' WIDTH
W12-52

COUNTY TT

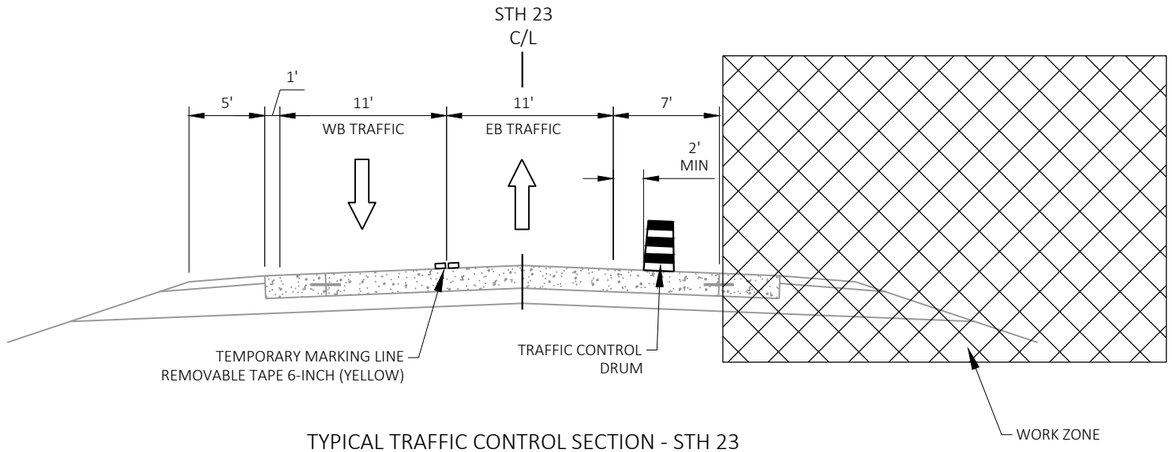
PROJECT NO: 1430-08-81 & 6640-00-70	HWY: STH 23 & STH 73	COUNTY: GREEN LAKE	TRAFFIC CONTROL - ADVANCE WARNING SIGNING - DETAIL 2	SHEET 66	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_025001_TC (AWS AND WIDTH RES).DWG
LAYOUT NAME - - ADVANCE WARNING SIGNING - DETAIL 2

PLOT DATE : 9/19/2023 6:05 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

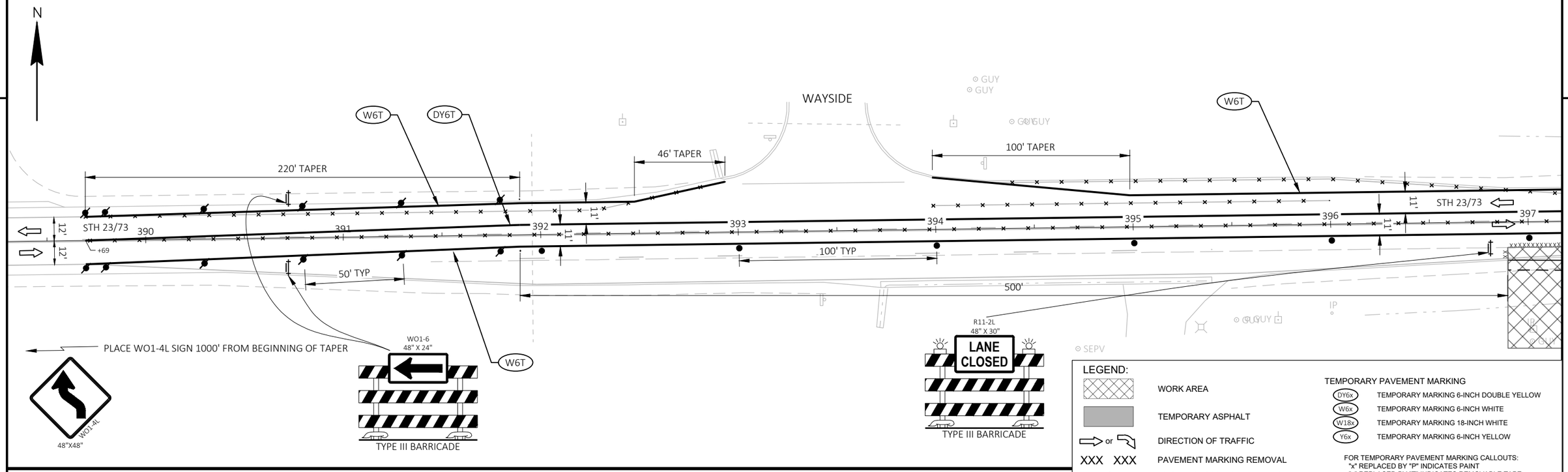
2



TYPICAL TRAFFIC CONTROL SECTION - STH 23

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	TRAFFIC CONTROL - TYPICAL SECTIONS	SHEET 67	E

2



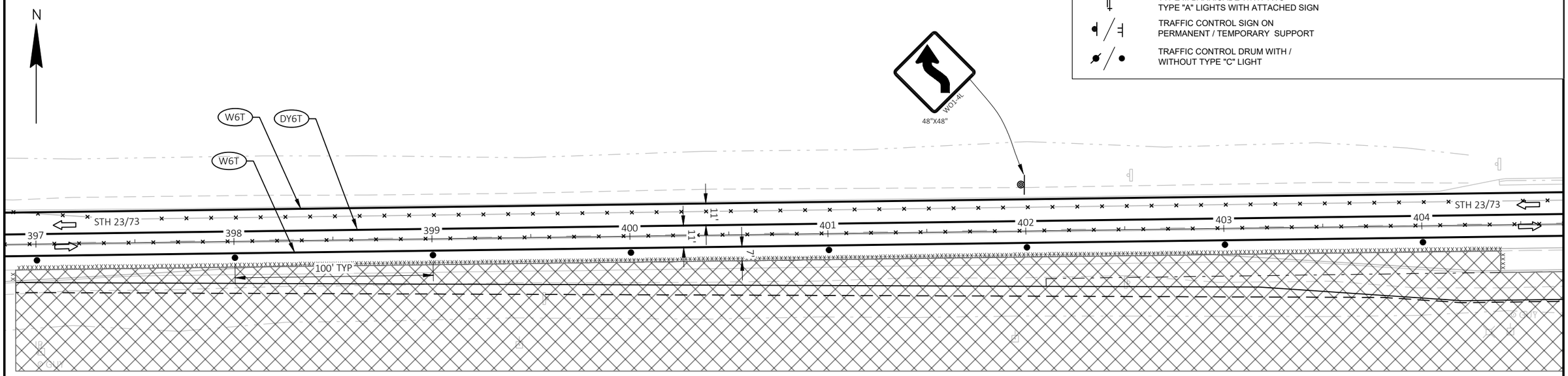
LEGEND:

- WORK AREA
- TEMPORARY ASPHALT
- or — DIRECTION OF TRAFFIC
- XXX XXX — PAVEMENT MARKING REMOVAL
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON PERMANENT / TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH / WITHOUT TYPE "C" LIGHT

TEMPORARY PAVEMENT MARKING

- DY6x — TEMPORARY MARKING 6-INCH DOUBLE YELLOW
- W6x — TEMPORARY MARKING 6-INCH WHITE
- W18x — TEMPORARY MARKING 18-INCH WHITE
- Y6x — TEMPORARY MARKING 6-INCH YELLOW

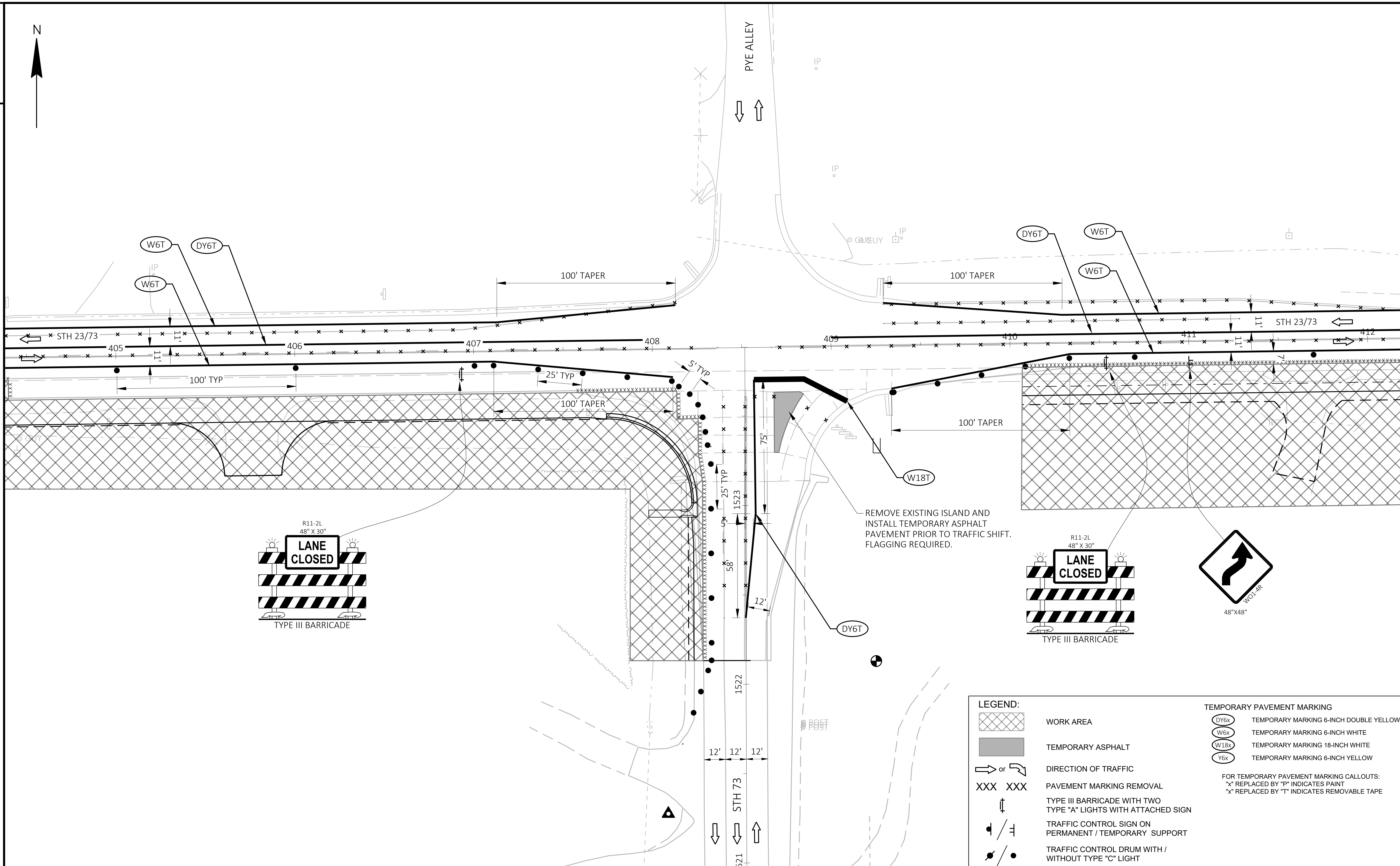
FOR TEMPORARY PAVEMENT MARKING CALLOUTS:
"x" REPLACED BY "P" INDICATES PAINT
"x" REPLACED BY "T" INDICATES REMOVABLE TAPE



PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	STAGE CONSTRUCTION - STAGE 1 - (STH 23/73)	SHEET 68	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_026001_S1.DWG
LAYOUT NAME - T_01

PLOT DATE : 11/3/2023 2:05 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT

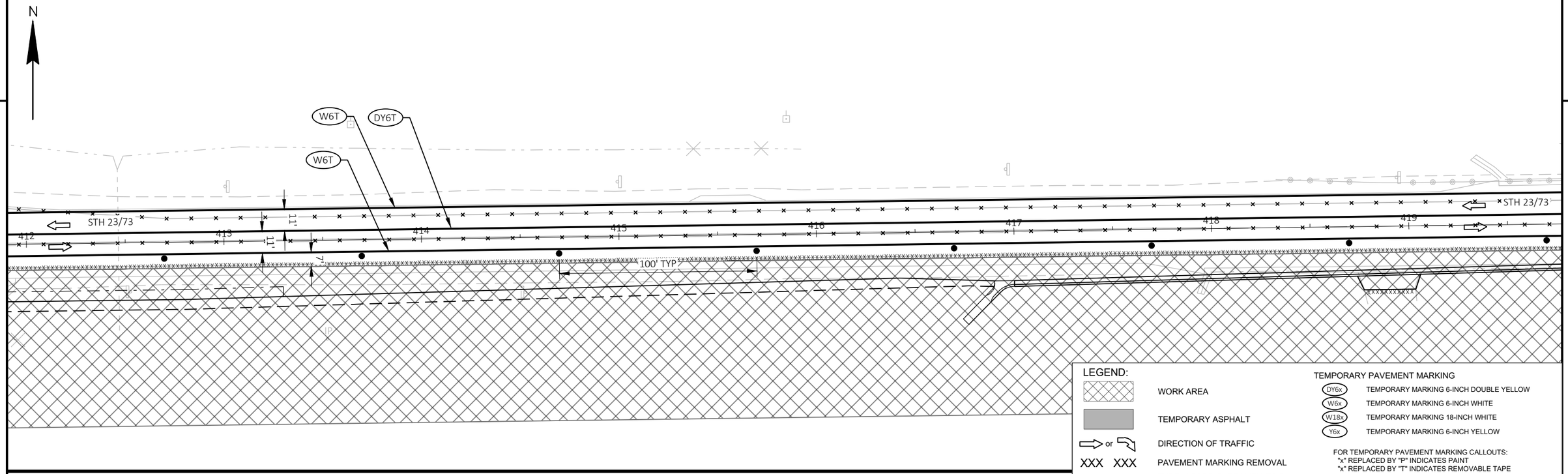


2
N
PYE ALLEY
100' TAPER
W6T
DY6T
STH 23/73
405
406
407
408
409
410
411
412
11'
100' TYP
25' TYP
5' TYP
75'
1523
1522
1521
58'
12'
W18T
REMOVE EXISTING ISLAND AND INSTALL TEMPORARY ASPHALT PAVEMENT PRIOR TO TRAFFIC SHIFT. FLAGGING REQUIRED.
R11-2L 48" X 30"
LANE CLOSED
TYPE III BARRICADE
W01-4R
48"X48"
STH 73
LEGEND:
WORK AREA
TEMPORARY ASPHALT
DIRECTION OF TRAFFIC
XXX XXX
PAVEMENT MARKING REMOVAL
TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS WITH ATTACHED SIGN
TRAFFIC CONTROL SIGN ON PERMANENT / TEMPORARY SUPPORT
TRAFFIC CONTROL DRUM WITH / WITHOUT TYPE "C" LIGHT
TEMPORARY PAVEMENT MARKING
DY6x TEMPORARY MARKING 6-INCH DOUBLE YELLOW
W6x TEMPORARY MARKING 6-INCH WHITE
W18x TEMPORARY MARKING 18-INCH WHITE
Y6x TEMPORARY MARKING 6-INCH YELLOW
FOR TEMPORARY PAVEMENT MARKING CALLOUTS:
"x" REPLACED BY "P" INDICATES PAINT
"x" REPLACED BY "T" INDICATES REMOVABLE TAPE

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	STAGE CONSTRUCTION - STAGE 1 - (STH 23/73)	SHEET 69	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_026001_S1.DWG
LAYOUT NAME - T_02
PLOT DATE : 11/3/2023 2:05 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2



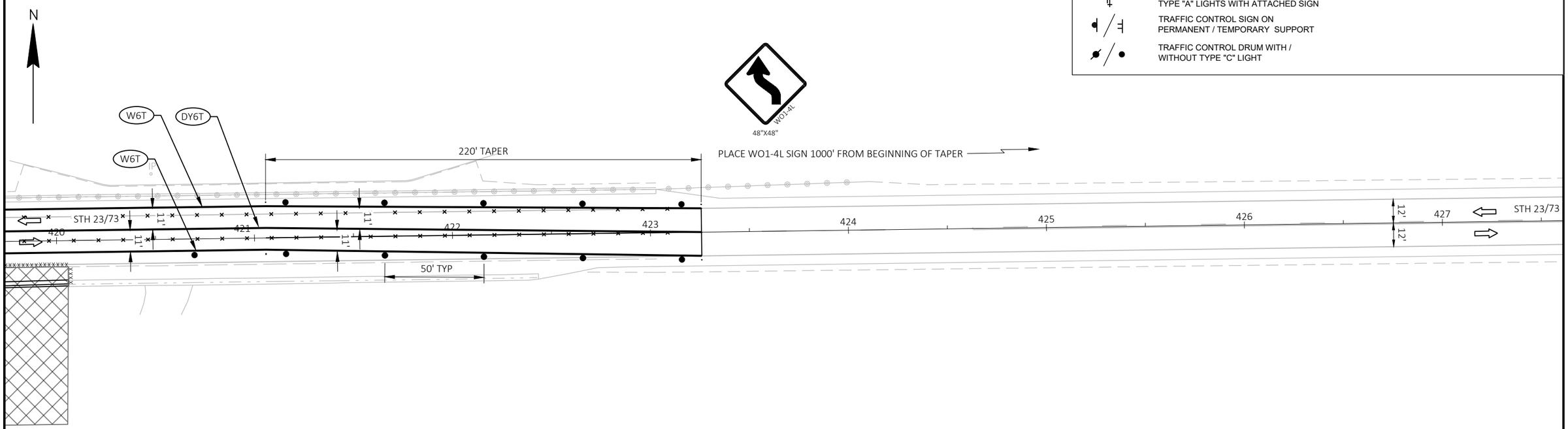
LEGEND:

- WORK AREA
- TEMPORARY ASPHALT
- or — DIRECTION OF TRAFFIC
- XXX XXX — PAVEMENT MARKING REMOVAL
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON PERMANENT / TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH / WITHOUT TYPE "C" LIGHT

TEMPORARY PAVEMENT MARKING

- DY6x — TEMPORARY MARKING 6-INCH DOUBLE YELLOW
- W6x — TEMPORARY MARKING 6-INCH WHITE
- W18x — TEMPORARY MARKING 18-INCH WHITE
- Y6x — TEMPORARY MARKING 6-INCH YELLOW

FOR TEMPORARY PAVEMENT MARKING CALLOUTS:
"x" REPLACED BY "P" INDICATES PAINT
"x" REPLACED BY "T" INDICATES REMOVABLE TAPE



PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	STAGE CONSTRUCTION - STAGE 1 - (STH 23/73)	SHEET 70	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_026001_S1.DWG
LAYOUT NAME - T_03

PLOT DATE : 11/3/2023 2:06 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

PYE ALLEY

STOP
R1-1
30"X30"

TRAFFIC CONTROL TO THE WEST WILL
REMAIN FROM STAGE 1 - (STH 23/73)

TRAFFIC CONTROL TO THE EAST WILL
REMAIN FROM STAGE 1 - (STH 23/73)

W6T
DY6T
W6T
100' TAPER
100' TAPER
W6T
DY6T

STH 23/73
405
406
407
408
409
410
411
412
STH 23/73

11'
11'
11'
11'

100' TYP
25' TYP
100' TAPER
25' TYP

W18T

NO RIGHT TURNS DURING
STAGE 2A - (STH 23/73)
(7-10 CALENDAR DAYS)

DY6T

1523
1522
1521

25' TYP
83' TAPER
25' TYP

STH 73

21'
15'
12'
12'
12'

R11-2L
48" X 30"
LANE
CLOSED
TYPE III BARRICADE

R3-1
24"X24"

R11-2L
48" X 30"
LANE
CLOSED
TYPE III BARRICADE

WO1-4R
48"X48"

WO1-6
48" X 24"
TYPE III BARRICADE

GUY

IP

LEGEND:

- WORK AREA
- TEMPORARY ASPHALT
- DIRECTION OF TRAFFIC
- PAVEMENT MARKING REMOVAL
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON PERMANENT / TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH / WITHOUT TYPE "C" LIGHT

TEMPORARY PAVEMENT MARKING

- DY6x — TEMPORARY MARKING 6-INCH DOUBLE YELLOW
- W6x — TEMPORARY MARKING 6-INCH WHITE
- W18x — TEMPORARY MARKING 18-INCH WHITE
- Y6x — TEMPORARY MARKING 6-INCH YELLOW

FOR TEMPORARY PAVEMENT MARKING CALLOUTS:
"x" REPLACED BY "P" INDICATES PAINT
"x" REPLACED BY "T" INDICATES REMOVABLE TAPE

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	STAGE CONSTRUCTION - STAGE 2A - (STH 23/73)	SHEET 71	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_026002_S2A.DWG
LAYOUT NAME - 02

PLOT DATE : 11/3/2023 2:09 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : ##########

2

2

N

PYE ALLEY

STOP
R1-1
30"X30"

W6T
DY6T
W6T

TRAFFIC CONTROL TO THE WEST WILL
REMAIN FROM STAGE 1 - (STH 23/73)

100' TAPER

STH 23/73

405 406 407 408

11'
11'

100' TYP

25' TYP

100' TAPER

GUY

W6T
DY6T
W6T

TRAFFIC CONTROL TO THE EAST WILL
REMAIN FROM STAGE 1 - (STH 23/73)

100' TAPER

STH 23/73

409 410 411 412

25' TYP

W18T

1523

25' TYP

DY6T

21'

15'

1522

25' TYP

83' TAPER

STH 73

1521

12' 12' 12'

R11-2L
48" X 30"
LANE
CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE
CLOSED
TYPE III BARRICADE

WO1-4R
48"X48"

LEGEND:

- WORK AREA
- TEMPORARY ASPHALT
- or — DIRECTION OF TRAFFIC
- XXX XXX — PAVEMENT MARKING REMOVAL
- TYPE III BARRICADE WITH TWO TYPE "A" LIGHTS WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON PERMANENT / TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH / WITHOUT TYPE "C" LIGHT

TEMPORARY PAVEMENT MARKING

- DY6x — TEMPORARY MARKING 6-INCH DOUBLE YELLOW
- W6x — TEMPORARY MARKING 6-INCH WHITE
- W18x — TEMPORARY MARKING 18-INCH WHITE
- Y6x — TEMPORARY MARKING 6-INCH YELLOW

FOR TEMPORARY PAVEMENT MARKING CALLOUTS:
"x" REPLACED BY "P" INDICATES PAINT
"x" REPLACED BY "T" INDICATES REMOVABLE TAPE

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	STAGE CONSTRUCTION - STAGE 2B - (STH 23/73)	SHEET 72	E

OLD GREEN LAKE RD

PYE ALLEY

REETZ RD

BEYERS COVE RD

RADTKE RD

GREEN LAKE

(IN PLACE 7 DAYS PRIOR TO CLOSURE (STAGE 2A) - (STH 23/73))

FRAME A	FRAME B
NO RIGHT TURNS	STARTING XXXDAY XX/XX/XX

(IN PLACE DURING CLOSURE (STAGE 2A) - (STH 23/73))

FRAME A	FRAME B
NO RIGHT TURN	TO WIS 23 EB

PCMS

LEGEND:

- DETOUR ROUTE
- WORK AREA
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- EXISTING SIGN ON PERMANENT SUPPORT
- EXISTING SIGN, COVER EXISTING SIGN, PROPOSED DETOUR SIGN

NOTES:

1) ALL SIGNS ARE 48" X 48", UNLESS OTHERWISE NOTED.
2) "WO" SIGNS ARE THE SAME AS "W" SIGNS, EXCEPT THE BACKGROUND IS ORANGE.
3) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
4) 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.
5) DETOUR ROUTE IS TO BE IN PLACE THROUGH DURATION OF STAGE 2A - (STH 23/73) ONLY

SIGN LEGEND:

- M1-6 36"X36"
- M5-1R 30"X30"
- M6-1 30"X30"
- M3-2 24"X12"
- M4-5 24"X12"
- M4-8A 24"X18"
- W20-2A

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	DETOUR ROUTE - STAGE 2A - (STH 23/73)	SHEET 73	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_027001_DT.DWG
LAYOUT NAME - 01

PLOT DATE : 9/27/2023 9:39 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:2000 FT

WISDOT/CADDS SHEET 42

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	1430-08-81 Qty	6640-00-70 Qty
0002	203.0100	Removing Small Pipe Culverts	EACH	7.000	3.000	4.000
0004	203.0220	Removing Structure (structure) 01. Culvert #24073005020	EACH	1.000		1.000
0006	204.0100	Removing Concrete Pavement	SY	1,491.000	1,491.000	
0008	204.0110	Removing Asphaltic Surface	SY	274.000	27.000	247.000
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	845.000		845.000
0012	204.0120	Removing Asphaltic Surface Milling	SY	196,200.000		196,200.000
0014	204.0130	Removing Curb	LF	89.000	89.000	
0016	204.0150	Removing Curb & Gutter	LF	701.000		701.000
0018	204.0165	Removing Guardrail	LF	4,430.000		4,430.000
0020	204.9060.S	Removing (item description) 01. Removing Private Sign	EACH	1.000	1.000	
0022	205.0100	Excavation Common	CY	3,502.000	1,708.000	1,794.000
0024	208.0100	Borrow	CY	646.000	646.000	
0026	208.1500.S	Temporary Lane Shift During Culvert Work	EACH	4.000		4.000
0028	213.0100	Finishing Roadway (project) 01. 1430-08-81	EACH	1.000	1.000	
0030	213.0100	Finishing Roadway (project) 02. 6640-00-70	EACH	1.000		1.000
0032	305.0110	Base Aggregate Dense 3/4-Inch	TON	10,336.000	176.000	10,160.000
0034	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	3,580.000	2,540.000	1,040.000
0036	415.0090	Concrete Pavement 9-Inch	SY	3,670.000	3,670.000	
0038	416.0610	Drilled Tie Bars	EACH	1,016.000	1,016.000	
0040	416.0620	Drilled Dowel Bars	EACH	41.000	41.000	
0042	455.0605	Tack Coat	GAL	14,109.000	14.000	14,095.000
0044	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000		1.000
0046	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	1.000		1.000
0048	460.2005	Incentive Density PWL HMA Pavement	DOL	16,080.000		16,080.000
0050	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	10,990.000		10,990.000
0052	460.2010	Incentive Air Voids HMA Pavement	DOL	22,020.000		22,020.000
0054	460.6224	HMA Pavement 4 MT 58-28 S	TON	22,020.000		22,020.000
0056	465.0105	Asphaltic Surface	TON	870.000		870.000
0058	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	52.000	22.000	30.000
0060	465.0125	Asphaltic Surface Temporary	TON	9.000	9.000	
0062	465.0305	Asphaltic Surface Safety Islands	TON	4.000		4.000
0064	465.0315	Asphaltic Flumes	SY	57.000	57.000	
0066	465.0560	Asphaltic Rumble Strips, Centerline	LF	47,010.000		47,010.000
0068	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	4.000	4.000	
0070	520.3318	Culvert Pipe Class III-A 18-Inch	LF	86.000	86.000	
0072	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000	
0074	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	1.000		1.000
0076	521.1036	Apron Endwalls for Culvert Pipe Steel 36-Inch	EACH	2.000		2.000
0078	521.1242	Apron Endwalls for Pipe Arch Steel 42x29-Inch	EACH	2.000		2.000
0080	521.1249	Apron Endwalls for Pipe Arch Steel 49x33-Inch	EACH	2.000		2.000
0082	521.1271	Apron Endwalls for Pipe Arch Steel 71x47-Inch	EACH	2.000		2.000
0084	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	12.000		12.000
0086	521.5136	Culvert Pipe Corrugated Steel Polymer Coated 36-Inch	LF	84.000		84.000
0088	521.5742	Pipe Arch Polymer Coated Corrugated Steel 42x29-Inch	LF	58.000		58.000
0090	521.5749	Pipe Arch Polymer Coated Corrugated Steel 49x33-Inch	LF	56.000		56.000
0092	521.5771	Pipe Arch Polymer Coated Corrugated Steel 71x47-Inch	LF	54.000		54.000
0094	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	16.000	16.000	
0096	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	1.000	1.000	
0098	601.0120	Concrete Curb Type J	LF	200.000		200.000
0100	601.0551	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	LF	457.000	457.000	

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	1430-08-81 Qty	6640-00-70 Qty
0102	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	561.000		561.000
0104	606.0200	Riprap Medium	CY	5.000	5.000	
0106	606.0300	Riprap Heavy	CY	37.000		37.000
0108	614.0010	Barrier System Grading Shaping Finishing	EACH	8.000		8.000
0110	614.2300	MGS Guardrail 3	LF	1,728.125		1,728.125
0112	614.2330	MGS Guardrail 3 K	LF	1,862.500		1,862.500
0114	614.2350	MGS Guardrail Short Radius	LF	28.125		28.125
0116	614.2610	MGS Guardrail Terminal EAT	EACH	15.000		15.000
0118	614.2630	MGS Guardrail Short Radius Terminal	EACH	1.000		1.000
0120	618.0100	Maintenance and Repair of Haul Roads (project) 01. 1430-08-81	EACH	1.000	1.000	
0122	618.0100	Maintenance and Repair of Haul Roads (project) 02. 6640-00-70	EACH	1.000		1.000
0124	619.1000	Mobilization	EACH	1.000	0.300	0.700
0126	623.0200	Dust Control Surface Treatment	SY	4,810.000	4,810.000	
0128	624.0100	Water	MGAL	280.000	56.000	224.000
0130	625.0500	Salvaged Topsoil	SY	7,950.000	6,010.000	1,940.000
0132	627.0200	Mulching	SY	7,950.000	6,010.000	1,940.000
0134	628.1504	Silt Fence	LF	7,990.000	1,420.000	6,570.000
0136	628.1520	Silt Fence Maintenance	LF	7,990.000	1,420.000	6,570.000
0138	628.1905	Mobilizations Erosion Control	EACH	6.000	3.000	3.000
0140	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	1.000	2.000
0142	628.2002	Erosion Mat Class I Type A	SY	2,380.000	800.000	1,580.000
0144	628.2006	Erosion Mat Urban Class I Type A	SY	360.000		360.000
0146	628.6510	Soil Stabilizer Type B	ACRE	1.640	1.240	0.400
0148	628.7504	Temporary Ditch Checks	LF	50.000	50.000	
0150	628.7555	Culvert Pipe Checks	EACH	68.000	4.000	64.000
0152	628.7570	Rock Bags	EACH	85.000		85.000
0154	629.0210	Fertilizer Type B	CWT	4.000	4.000	
0156	630.0130	Seeding Mixture No. 30	LB	142.000	108.000	34.000
0158	630.0500	Seed Water	MGAL	178.500	135.000	43.500
0160	633.5200	Markers Culvert End	EACH	9.000	1.000	8.000
0162	638.2102	Moving Signs Type II	EACH	13.000	13.000	
0164	638.2602	Removing Signs Type II	EACH	3.000	3.000	
0166	638.3000	Removing Small Sign Supports	EACH	2.000	2.000	
0168	638.4000	Moving Small Sign Supports	EACH	14.000	14.000	
0170	642.5201	Field Office Type C	EACH	1.000	0.300	0.700
0172	643.0300	Traffic Control Drums	DAY	7,188.000	6,678.000	510.000
0174	643.0420	Traffic Control Barricades Type III	DAY	470.000	470.000	
0176	643.0705	Traffic Control Warning Lights Type A	DAY	498.000	498.000	
0178	643.0715	Traffic Control Warning Lights Type C	DAY	1,326.000	1,326.000	
0180	643.0900	Traffic Control Signs	DAY	8,650.000	3,487.000	5,163.000
0182	643.0920	Traffic Control Covering Signs Type II	EACH	2.000	2.000	
0184	643.1000	Traffic Control Signs Fixed Message	SF	72.000	36.000	36.000
0186	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000	
0188	643.3165	Temporary Marking Line Paint 6-Inch	LF	64,030.000		64,030.000
0190	643.3180	Temporary Marking Line Removable Tape 6-Inch	LF	12,830.000	12,830.000	
0192	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	92.000	92.000	
0194	643.5000	Traffic Control	EACH	1.000	0.300	0.700
0196	645.0120	Geotextile Type HR	SY	233.000	28.000	205.000
0198	646.2020	Marking Line Epoxy 6-Inch	LF	10,050.000	10,050.000	
0200	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	183,790.000	7,450.000	176,340.000

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	1430-08-81 Qty	6640-00-70 Qty
0202	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	3,250.000	1,420.000	1,830.000
0204	646.5020	Marking Arrow Epoxy	EACH	8.000	8.000	
0206	646.5120	Marking Word Epoxy	EACH	4.000	4.000	
0208	646.6120	Marking Stop Line Epoxy 18-Inch	LF	256.000	36.000	220.000
0210	646.7120	Marking Diagonal Epoxy 12-Inch	LF	540.000	540.000	
0212	646.8120	Marking Curb Epoxy	LF	200.000		200.000
0214	646.9000	Marking Removal Line 4-Inch	LF	7,640.000	7,640.000	
0216	646.9002	Marking Removal Line 6-Inch	LF	400.000	400.000	
0218	646.9200	Marking Removal Line Wide	LF	35.000	35.000	
0220	650.4500	Construction Staking Subgrade	LF	2,420.000	2,420.000	
0222	650.6000	Construction Staking Pipe Culverts	EACH	8.000	3.000	5.000
0224	650.7000	Construction Staking Concrete Pavement	LF	2,420.000	2,420.000	
0226	650.8000	Construction Staking Resurfacing Reference	LF	0.150		0.150
0228	650.9911	Construction Staking Supplemental Control (project) 01. 1430-08-81	EACH	1.000	1.000	
0230	650.9911	Construction Staking Supplemental Control (project) 02. 6640-00-70	EACH	2,500.000		2,500.000
0232	650.9920	Construction Staking Slope Stakes	LF	2,790.000	2,420.000	370.000
0234	690.0150	Sawing Asphalt	LF	776.000		776.000
0236	690.0250	Sawing Concrete	LF	2,420.000	2,420.000	
0238	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	1,101.000	1,101.000	
0240	740.0440	Incentive IRI Ride	DOL	39,946.000		39,946.000
0242	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	720.000	1,680.000
0244	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,980.000	594.000	1,386.000
0246	SPV.0180	Special 01. Removing Distressed Pavement Milling	SY	1,962.000		1,962.000

3

REMOVING SMALL PIPE CULVERTS

CATEGORY	STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	REMARKS
0010	405+76	STH 23 EB RT	1	48' - 18" CMCP
	411+64	STH 23 EB RT	1	52' - 18" CMCP
	412+47	STH 23 EB RT	1	Remove Apron Endwall
		TOTAL 0010	3	

MISCELLANEOUS REMOVALS

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0130 REMOVING CURB LF	204.9060.S.01 REMOVING (ITEM DESCRIPTION) (01. Removing Private Sign) EACH
0010	396+89	-	408+50	STH 23 EB RT	470	-	-	1
	408+50	-	420+06	STH 23 EB RT	1,021	27	89	-
				TOTAL 0010	1,491	27	89	1

EARTHWORK SUMMARY (PROJECT ID 1430-08-81)

CATEGORY 0010

FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (3)	AVAILABLE MATERIAL (4)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT
396+90 - 407+74	STH 23	714	94	620	622	778	-158	0	158	
407+74 - 408+27	STH 23/73	119	24	95	41	51	44	68	0	
408+63 - 409+19	STH 23/73	167	100	67	52	65	2	102	0	
409+19 - 420+06	STH 23	708	164	544	880	1,100	-556	0	556	
PROJECT ID 1430-08-81 TOTALS		1,708	382	1,326	1,595	1,994	-668	170	646	

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) SALVAGED/UNUSABLE PAVEMENT MATERIAL
(4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
(13) EXPANDED FILL FACTOR = 1.25
(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.

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

BASE AGGREGATE DENSE

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	623.0200 DUST CONTROL SURFACE TREATMENT SY	624.0100 WATER MGAL
0010	396+89	-	408+50	STH 23 EB RT	91	1,260	2,270	28
	408+50	-	420+06	STH 23 EB RT	85	1,280	2,540	28
				TOTAL 0010	176	2,540	4,810	56

CONCRETE PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	415.0090 CONCRETE PAVEMENT 9-INCH SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	690.0250 SAWING CONCRETE LF
0010	396+89	-	408+50	STH 23 EB RT	1,790	501	28	990
	408+50	-	420+06	STH 23 EB RT	1,880	515	13	1,430
				TOTAL 0010	3,670	1,016	41	2,420

HMA PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	PAVEMENT THICKNESS IN	455.0605 TACK COAT GAL	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0315 ASPHALTIC FLUMES SY
0010	1522+13	-	1523+03	STH 73 NB LT	2.25	-	-	-	14
	1522+13	-	1523+03	STH 73 NB RT	3.50	-	-	-	16
	405+29	-	406+22	STH 23 EB RT	2.25	10	19	-	-
	416+73	-	419+06	STH 23 EB RT	2.25	2	3	-	27
	1523+30	-	1523+65	STH 73	5.00	2	-	9	-
				TOTAL 0010		14	22	9	57

RIPRAP & GEOTEXTILE FABRIC

CATEGORY	STATION	TO	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
0010	396+89	-	408+50	STH 23 EB RT	1	7
	408+50	-	420+06	STH 23 EB RT	4	21
				TOTAL 0010	5	28

EROSION CONTROL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH
0010	396+89	-	408+50	STH 23 EB RT	250	250	50	2	-
	408+50	-	420+06	STH 23 EB RT	1,170	1,170	-	2	51
				TOTAL 0010	1,420	1,420	50	4	51

CONCRETE CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A LF
0010	407+73	-	408+22	STH 23 EB RT	76
	408+70	-	409+19	STH 23 EB RT	75
	417+00	-	420+06	STH 23 EB RT	306
				TOTAL 0010	457

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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REMOVING SIGNS

CATEGORY	SIGN NO.	STATION	OFFSET	SIGN WORDING & PICTORIALS	CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	R1-01	408+70	RT	DOUBLE DIAGONAL ARROW	W12-1D	1	1	
0010	R1-02	408+75	RT	STOP	R1-1	1	1	
0010	R1-03	408+75	RT	KEEP RIGHT	R4-7	1	-	SHARED POST
				TOTAL 0010		3	2	

650- CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (1430-08-81) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	389+50	-	408+50	STH 23	1,135	1	1,135	-	1,135
0010	408+50	-	423+25	STH 23	1,145	2	1,145	-	1,145
0010	1522+00	-	1523+88	STH 73	140	-	140	-	140
0010				STH 23/73 Project	-	-	-	1	-
				TOTAL 0010	2,420	3	2,420	1	2,420

MOVING SIGNS

CATEGORY	SIGN NO.	STATION	OFFSET	SIGN WORDING & PICTORIALS	CODE	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	M1-01	399+50	RT	GREEN LAKE AHEAD, RANDOLPH RIGHT	D1-1	1	2	
0010	M1-02	402+50	RT	STH 23, EAST, UP ARROW; STH 73, SOUTH, RIGHT AHEAD ARROW	J2-2	1	1	
0010	M2-01	407+65	RT	STH 73, SOUTH, RIGHT ARROW	J2-1	1	1	
0010	M2-02	409+00	RT	STOP	R1-1	1	1	
0010	M2-03	409+00	RT	STH 23, WEST, LEFT ARROW; STH 73, NORTH, LEFT ARROW; STH 23, EAST, RIGHT ARROW	J2-3	1	2	
0010	M2-04	409+00	RT	RIGHT ARROW	M6-1	1	1	
0010	M2-05	409+00	RT	HOSPITAL SYMBOL	D9-2	1	-	SHARED POST
0010	M2-06	410+60	RT	STH 23, EAST	J1-1	1	1	
0010	M3-01	423+50	RT	SPEED LIMIT 55 M.P.H.	R2-1	1	1	
0010	M3-02	414+50	RT	GREEN LAKE 6	I2-2	1	2	
0010	M3-03	417+00	RT	HOSPITAL SYMBOL	D9-2	1	1	
0010	M3-04	417+00	RT	UP ARROW	M6-1	1	-	SHARED POST
0010	M3-05	418+00	RT	NO PASSING ZONE	W14-3	1	1	
					TOTAL 0010	13	14	

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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CULVERT ITEMS

CATEGORY	LOCATION	INLET STATION	INLET OFFSET	INLET ELEVATION	OUTLET STATION	OUTLET OFFSET	OUTLET ELEVATION	PIPE THICKNESS (IN)	520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	633.5200 MARKERS CULVERT END EACH	REMARKS
0010	STH 23 EB RT	405+50	59.5' RT	854.24	406+00	61.8' RT	853.49	0.064	2	50	-	-	-	-	
	STH 23 EB RT	411+43	62.9' RT	847.94	411+79	65.7' RT	847.35	0.064	2	36	-	-	-	-	
	STH 23 EB RT	412+46	56.9' RT	846.08	412+46	41.9' RT	845.90	-	-	-	1	16	1	1	EXTENSION OF CULVERT UNDER STH23
								TOTAL 0010	4	86	1	16	1	1	

FINISHING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.2002 EROSION MAT CLASS I TYPE A SY	628.6510 SOIL STABILIZER TYPE B ACRE	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0500 SEED WATER MGAL
0010	396+89	-	408+50	STH 23 EB RT	3,160	3,160	680	0.65	2	57	71
	408+50	-	420+06	STH 23 EB RT	2,850	2,850	120	0.59	2	51	64
				TOTAL 0010	6,010	6,010	800	1.24	4	108	135

PERMANENT PAVEMENT MARKINGS

CATEGORY	STATION	TO	STATION	LOCATION	646.2020 MARKING LINE EPOXY 6-INCH (SOLID YELLOW) LF	646.2020 MARKING LINE EPOXY 6-INCH (SKIP YELLOW) LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH (SOLID WHITE) LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH (SKIP WHITE) LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH (SOLID WHITE) LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH (SKIP WHITE) LF	646.5020 MARKING ARROW EPOXY (WHITE) EACH	646.5120 MARKING WORD EPOXY (WHITE) EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH (WHITE) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (YELLOW) LF
0010	389+50	-	408+50	STH 23	5,150	160	3,630	90	790	-	4	2	-	370
	408+50	-	423+25	STH 23	4,290	180	3,550	-	590	-	4	2	-	170
	1522+00	-	1523+88	STH 73	270	-	180	-	-	40	-	-	36	-
				SUBTOTAL	9,710	340	7,360	90	1,380	40	8	4	36	540
				TOTAL 0010	10,050		7,450		1,420		8	4	36	540

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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TRAFFIC CONTROL ITEMS

CATEGORY	STAGE	LOCATION	APPROXIMATE SERVICE DAY		643.0300 TRAFFIC CONTROL DRUMS DAY		643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY		643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY		643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY		643.0900 TRAFFIC CONTROL SIGNS DAY		643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY
				NO.		NO.		NO.		NO.		NO.		CYCLES			
0010	1	ADVANCED WARNING AND WIDTH RESTRICTION	28	-	-	-	-	-	-	-	-	31	868	-	-	36	-
		PROJECT AREA	28	74	2,072	5	140	6	168	12	336	9	252	-	-	-	-
		STAGE 1 SUBTOTALS			2,072		140		168		336		1,120		0	36	0
0010	2A	ADVANCED WARNING AND WIDTH RESTRICTION	7	-	-	-	-	-	-	-	-	31	217	-	-	-	-
		PROJECT AREA	7	82	574	6	42	6	42	18	126	11	77	-	-	-	-
		DETOUR ROUTE	7	-	-	-	-	-	-	-	-	15	105	1	2	-	14
		STAGE 2A SUBTOTALS			574		42		42		126		399		2	0	14
0010	2B	ADVANCED WARNING AND WIDTH RESTRICTION	48	-	-	-	-	-	-	-	-	31	1,488	-	-	-	-
		PROJECT AREA	48	84	4,032	6	288	6	288	18	864	10	480	-	-	-	-
		STAGE 2B SUBTOTALS			4,032		288		288		864		1,968		0	0	0
		TOTAL 0010			6,678		470		498		1,326		3,487		2	36	14

MARKING REMOVAL

CATEGORY	STATION	TO	STATION	LOCATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9002 MARKING REMOVAL LINE 6-INCH LF	646.9200 MARKING REMOVAL LINE WIDE LF
0010	389+50	-	408+50	STH 23	4,280	200	-
	408+50	-	423+25	STH 23	2,830	200	-
	1522+00	-	1523+88	STH 73	530	-	35
				TOTAL 0010	7,640	400	35

TEMPORARY MARKINGS

CATEGORY	STATION	TO	STATION	LOCATION	643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (SOLID YELLOW) LF	(SOLID WHITE) LF	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE) LF
0010	389+50	-	408+50	STH 23	3,220	3,680	-
	408+50	-	423+25	STH 23	2,850	2,950	-
	1522+00	-	1523+88	STH 73	130	-	92
				SUBTOTALS	6,200	6,630	92
				TOTAL 0010		12,830	92

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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MISCELLANEOUS REMOVALS

CATEGORY	STATION	TO	STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	204.0150 REMOVING CURB & GUTTER LF	204.0165 REMOVING GUARDRAIL LF	SPV.0180.01 SPECIAL (01. REMOVING DISTRESSED PAVEMENT MILLING) SY	REMARKS
0010	994+85	-	1025+00	STH 73	220	50	11,500	-	-	-	
0010	1025+00	-	1106+00	STH 73	-	180	29,300	71	-	-	
0010	1106+00	-	1184+00	STH 73	-	55	26,700	-	-	-	
0010	1184+00	-	1302+00	STH 73	-	70	42,200	280	2,180	-	
0010	1302+00	-	1445+00	STH 73	-	280	57,500	350	590	-	
0010	1445+00	-	1522+13	STH 73	-	-	29,000	-	1,660	-	
0010	994+85	-	1522+13	STH 73	-	-	-	-	-	1,962	
0010	994+85	-	1522+14	STH 73	-	210	-	-	-	-	ASPHALTIC DRIVEWAYS AND FIELD ENTERANCES
				TOTAL 0010	220	845	196,200	701	4,430	1,962	

EARTHWORK SUMMARY (PROJECT ID 6640-00-70)

CATEGORY 0010

FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (3)	AVAILABLE MATERIAL (4)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE	COMMENT
994+85 - 998+61	STH 73, LT	12	0	12	0	0	12	12	STH 44 INTERSECTION
1014+78	STH 73	371	58	313	0	0	313	313	71" X 47" CSPA
1042+88	STH 73	367	55	312	0	0	312	312	49" X 33" CSPA
1074+02	STH 73	697	53	644	0	0	644	644	36" CPCS
1167+30	STH 73	347	55	292	0	0	292	292	42" X 29" CSPA
PROJECT ID 6640-00-70 TOTALS		1,794	221	1,573	0	0	1,573	1,573	

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) SALVAGED/UNUSABLE PAVEMENT MATERIAL

(4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(13) EXPANDED FILL FACTOR = 1.25

(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.

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

3

STRUCTURE REMOVALS

CATEGORY	STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	203.0220.01 REMOVING STRUCTURE (STRUCTURE) (01. CULVERT #24073005020) EACH	REMARKS
0010	1014+78	STH 73	-	1	71" X 47" X 56.3' CMP
	1042+88	STH 73	1	-	49" X 33" X 56.3' CMPA
	1074+02	STH 73	1	-	36" X 84.5' CMP
	1167+30	STH 73	1	-	42" X 29" X57' CMPA
	1407+62	STH 73	1	-	Remove Apron Endwall
		TOTAL 0010	4	1	

BASE AGGRGEGATE DENSE

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL	REMARKS
0010	994+85	-	1025+00	STH 73	590	270	17	
	1025+00	-	1106+00	STH 73	1,750	510	45	
	1106+00	-	1184+00	STH 73	1,700	260	39	
	1184+00	-	1302+00	STH 73	2,400	-	48	
	1302+00	-	1445+00	STH 73	2,090	-	42	
	1445+00	-	1522+13	STH 73	1,580	-	32	
	994+85	-	1522+14	STH 73PROJECT	50	-	1	DRIVEWAYS AND FIELD ENTERANCES
				TOTAL 0010	10,160	1,040	224	

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HMA PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	PAVEMENT THICKNESS IN	455.0605 TACK COAT GAL	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0305 ASPHALTIC SURFACE SAFETY ISLANDS TON	465.0560 ASPHALTIC RUMBLE STRIPS, CENTERLINE LF	REMARKS
0010	994+85	-	1025+00	STH 73	2.00	810	1,300	-	-	-	2,390	
	1025+00	-	1106+00	STH 73	2.00	2,060	3,300	-	-	-	7,150	
	1106+00	-	1184+00	STH 73	2.00	1,870	3,000	-	-	-	6,790	
	1184+00	-	1302+00	STH 73	2.00	2,960	4,730	-	-	-	11,020	
	1302+00	-	1445+00	STH 73	2.00	4,030	6,440	-	-	4	12,070	
	1445+00	-	1522+13	STH 73	2.00	2,030	3,250	-	-	-	7,590	
	1014+20	-	1015+35	STH 73/CULVERT	8.00	55	-	170	-	-	-	SEE CULVERT PIPE TRANSITION CONS. DETAIL
	1042+34	-	1043+43	STH 73/CULVERT	8.00	50	-	160	-	-	-	SEE CULVERT PIPE TRANSITION CONS. DETAIL
	1073+49	-	1074+55	STH 73/CULVERT	8.00	50	-	160	-	-	-	SEE CULVERT PIPE TRANSITION CONS. DETAIL
	1066+75	-	1067+84	STH 73/CULVERT	8.00	50	-	160	-	-	-	SEE CULVERT PIPE TRANSITION CONS. DETAIL
	994+85	-	1522+14	STH 73	3.00	-	-	-	30	-	-	ASPHALTIC DRIVEWAYS AND FIELD ENTERANCES
	994+85	-	1522+14	STH 73	2.00	130	-	220	-	-	-	DISTRESSED MILLING LOCATIONS
				TOTAL 0010		14,095	22,020	870	30	4	47,010	

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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PWL MIXTURE USE TABLE

LOCATION	STATION	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRAM TO BE USED FOR:	
							MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
12 FOOT DRIVING LANE	994+85 TO 1522+14	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	15,750	2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
12 FOOT PASSING LANE	1500+00 TO 1522+14	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	330	2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
3 FOOT SHOULDER + INTERSECTIONS	994+85 TO 1522+14	UPPER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	5,940	2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
VARIOUS	-	CULVERT PATCHES	BASE AGGREGATE	ASPHALTIC SURFACE	650	8"	QMP AS PER SS 465	ACCEPTANCE BY ORDINARY COMPACTION
VARIOUS	-	SPOT REPAIRS LOWER LAYER	MILLED EXISTING HMA SURFACE	ASPHALTIC SURFACE	210	2"	QMP AS PER SS 465	ACCEPTANCE BY ORDINARY COMPACTION

CULVERT ITEMS

CATEGORY	LOCATION	INLET STATION	INLET OFFSET	INLET ELEVATION	OUTLET STATION	OUTLET OFFSET	OUTLET ELEVATION	PIPE THICKNESS (IN)	208.1500.S TEMPORARY LANE SHIFT DURING CULVERT WORK EACH	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	521.1036 APRON ENDWALLS FOR CULVERT PIPE STEEL 36-INCH EACH	521.1242 APRON ENDWALLS FOR PIPE ARCH STEEL 42X29-INCH EACH	521.1249 APRON ENDWALLS FOR PIPE ARCH STEEL 49X33-INCH EACH	521.1271 APRON ENDWALLS FOR PIPE ARCH STEEL 71X47-INCH EACH	521.3118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF	521.5136 CULVERT PIPE CORRUGATED STEEL POLYMER COATED 36-INCH LF	521.5742 PIPE ARCH POLYMER COATED CORRUGATED STEEL 42X29-INCH LF	521.5749 PIPE ARCH POLYMER COATED CORRUGATED STEEL 49X33-INCH LF	521.5771 PIPE ARCH POLYMER COATED CORRUGATED STEEL 71X47-INCH LF	633.5200 MARKERS CULVERT END EACH	REMARKS
0010	STH 73	1014+76	26.9' LT	873.05	1014+80	25.6'RT	872.69	0.138	1	-	-	-	-	2	-	-	-	-	54	2	
	STH 73	1042+88	27.8' RT	903.99	1042+88	28.2' LT	903.70	0.109	1	-	-	-	2	-	-	-	-	56	-	2	
	STH 73	1074+03	35.4' RT	895.14	1074+00	48.5' LT	892.21	0.079	1	-	2	-	-	-	-	84	-	-	-	2	
	STH 73	1167+28	24.7' LT	915.88	1167+32	32.1' RT	915.21	0.079	1	-	-	2	-	-	-	-	58	-	-	2	
	STH 73 LT	1407+62	43.9' LT	808.30	1407+50	44.5' LT	808.00	0.064	-	1	-	-	-	-	12	-	-	-	-	-	CULVERT EXTENSION
								TOTAL 0010	4	1	2	2	2	2	12	84	58	56	54	8	

CONCRETE CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	601.0120 CONCRETE CURB TYPE J LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF
0010	994+85	-	1025+00	STH 73	-	-
	1025+00	-	1106+00	STh 73	-	71
	1106+00	-	1184+00	STH 73	-	-
	1184+00	-	1302+00	STH 73	-	280
	1302+00	-	1445+00	STH 73	200	210
	1445+00	-	1522+13	STH 73	-	-
				TOTAL 0010	200	561

GEOTEXTILE AND RIPRAP

CATEGORY	STATION	LOCATION	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE TYPE HR SY
0010	1014+78	STH 73	11	60
	1042+88	STH 73	9	50
	1074+02	STH 73	8	45
	1167+30	STH 73	9	50
		TOTAL 0010	37	205

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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BARRIER SYSTEMS

						FOR INFORMATION PURPOSES ONLY								
				614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING										CONSTRUCTION STAKING SLOPE STAKES
CATEGORY	STATION	TO	STATION	LOCATION	EACH	BORROW CY	SALVAGED TOPSOIL SY	MULCHING SY	EROSION MAT CLASS I TYPE A SY	EROSION MAT CLASS II TYPE B SY	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 30 LB	SEED WATER MGAL	LF
0010	1197+00	-	1207+00	STH 73 RT	1	543	1610	1610	70	1540	1.0	29	36	1000
	1197+00	-	1207+00	STH 73 LT	1	290	1610	1610	70	1540	1.0	29	36	1000
	1271+50	-	1280+00	STH 73 RT	1	235	1150	1150	-	1150	1.0	21	26	850
	1405+00	-	1408+75	STH 73 RT	1	110	510	510	-	510	0.3	9	12	375
	1405+00	-	1407+75	STH 73 LT	1	200	510	510	-	510	0.3	9	12	275
	1420+00	-	1423+50	STH 73 RT	1	94	630	630	-	630	0.4	11	14	350
	1510+00	-	1521+50	STH 73 RT	1	120	570	570	-	570	0.5	10	13	1150
	1512+00	-	1521+50	STH 73 LT	1	73	570	570	-	570	0.5	10	13	950
				TOTAL 0010	8	1,665	7,160	7,160	140	7,020	5	128	162	5,950

MGS GUARDRAIL

					614.2300	614.2330	614.2350	614.2610	614.2630
					MGS GUARDRAIL 3	MGS GUARDRAIL 3 K	MGS GUARDRAIL SHORT RADIUS	MGS GUARDRAIL TERMINAL EAT	MGS GUARDRAIL SHORT RADIUS TERMINAL
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LF	EACH	EACH
0010	1197+00	-	1206+00	STH 73	-	1,312.5	-	4	-
	1272+00	-	1279+00	STH 73	-	550	-	2	-
	1405+50	-	1408+00	STH 73	203.125	-	28.125	3	1
	1420+50	-	1423+00	STH 73	75	-	-	2	-
	1511+00	-	1521+00	STH 73	1,450	-	-	4	-
				TOTAL 0010	1,728.125	1,862.5	28.125	15	1

FINISHING ITEMS

					625.0500	627.0200	628.2002	628.2006	628.6510	630.0130	630.0500
					SALVAGED TOPSOIL	MULCHING	EROSION MAT CLASS I TYPE A	EROSION MAT URBAN CLASS I TYPE A	SOIL STABILIZER TYPE B	SEEDING MIXTURE NO. 30	SEED WATER
CATEGORY	STATION	TO	STATION	LOCATION	SY	SY	SY	SY	ACRE	LB	MGAL
0010	994+85	-	999+00	STH 73	350	350	350	-	0.07	6	7.8
	1014+00	-	1015+50	STH 73	360	360	-	360	0.07	6	8.0
	1042+00	-	1043+50	STH 73	330	330	330	-	0.07	6	7.4
	1073+00	-	1075+00	STH 73	580	580	580	-	0.12	10	13
	1166+50	-	1168+00	STH 73	320	320	320	-	0.07	6	7.3
				TOTAL 0010	1,940	1,940	1,580	360	0.40	34	43.5

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

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EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH
0010	994+85	-	999+00	STH 73	380	380	-	-	-	17
	1014+00	-	1015+50	STH 73	240	240	-	-	16	-
	1042+00	-	1043+50	STH 73	240	240	-	-	10	-
	1073+00	-	1075+00	STH 73	290	290	-	-	7	-
	1166+50	-	1168+00	STH 73	230	230	-	-	8	-
	1197+00	-	1206+00	STH 73	2070	2070	-	-	23	34
	1272+00	-	1279+00	STH 73	870	870	-	-	-	-
	1405+50	-	1408+00	STH 73	810	810	-	-	-	-
	1420+50	-	1423+00	STH 73	480	480	-	-	-	-
	1511+00	-	1521+00	STH 73	960	960	-	-	-	34
	994+85	-	1522+14	STH 73 PROJECT	-	-	3	2	-	-
				TOTAL 0010	6,570	6,570	3	2	64	85

TEMPORARY MARKINGS

CATEGORY	STATION	TO	STATION	LOCATION	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH (SOLID YELLOW) LF	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH (YELLOW 4' SKIPS, 46' GAP) LF
0010	994+85	-	1025+00	STH 73	2430	200
	1025+00	-	1106+00	STH 73	9270	480
	1106+00	-	1184+00	STH 73	12340	250
	1184+00	-	1302+00	STH 73	11190	700
	1302+00	-	1445+00	STH 73	12080	900
	1445+00	-	1522+13	STH 73	14070	120
				SUBTOTAL	61380	2650
				TOTAL 0010		64,030

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	APPROXIMATE SERVICE DAY	643.0300 TRAFFIC CONTROL DRUMS NO.	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0900 TRAFFIC CONTROL SIGNS NO.	643.0900 TRAFFIC CONTROL SIGNS DAY	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
0010	ADVANCED WARNING AND WIDTH RESTRICTION	83	-	-	41	3,403	36
	DROP-OFF AND MILLED SURFACE	32	-	-	51	1,632	-
	GUARDRAIL REPLACEMENT AREAS	10	15	150	8	80	-
	CULVERT REPLACEMENT AREAS	6	35	210	8	48	-
	UNDISTRIBUTED	10	15	150	-	-	-
	TOTAL 0010			510		5,163	36

650- CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (6640-00-70) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	994+85	-	1522+15	STH 73 Project	5	52,730	1	370
				TOTAL 0010	5	52,730	1	370

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

PERMANENT PAVEMENT MARKINGS

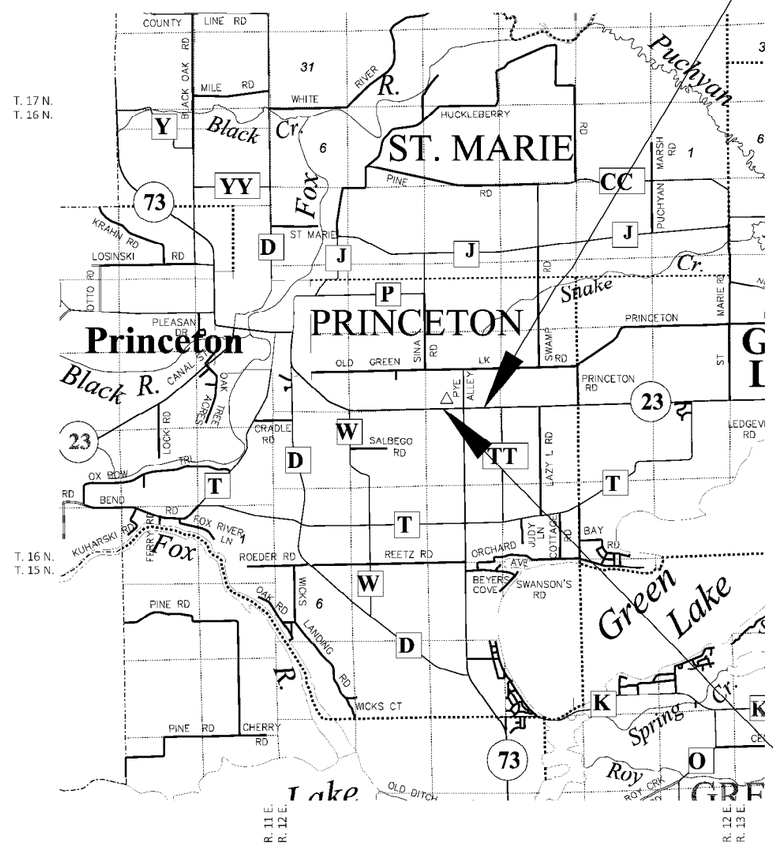
CATEGORY	STATION	TO	STATION	LOCATION	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH (SOLID WHITE) LF	(SOLID YELLOW) LF	(SKIP WHITE) LF	(SKIP YELLOW) LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH (SOLID WHITE) LF	(SKIP WHITE) LF	646.6120 MARKING STOP LINE EPOXY 18-INCH (WHITE) LF	646.8120 MARKING CURB EPOXY (YELLOW) LF
0010	994+85	-	1025+00	STH 73	6,120	2,610	60	640	260	-	30	-
	1025+00	-	1106+00	STH 73	15,960	9,700	-	1,510	360	-	70	-
	1106+00	-	1184+00	STH 73	15,520	12,450	20	770	190	-	-	-
	1184+00	-	1302+00	STH 73	23,650	11,590	-	2,190	110	-	50	-
	1302+00	-	1445+00	STH 73	28,270	12,770	120	2,810	450	-	70	200
	1445+00	-	1522+13	STH 73	15,430	13,780	-	370	-	460	-	-
				SUBTOTAL	104,950	62,900	200	8,290	1,370	460	220	200
				TOTAL 0010	176,340				1,830		220	200

SAWING ASPHALT

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF	REMARKS
0010	994+85	-		STH 73	24	Project Start
	543+68	-		STH 44	40	STH 44 Butt Joint
	1014+00	-	1015+50	STH 73	48	Culvert Removal
	1026+00	-		STH 73	58	CTH S/Heritage Rd Butt Joints
	1042+00	-	1042+50	STH 73	48	Culvert Removal
	1066+75	-		STH 73	20	N Rd Butt Joint
	1073+50	-	1074+75	STH 73	48	Culvert Removal
	1105+50	-		STH 73	68	CTH H Butt Joint
	1131+75	-		STH 73	22	Phelps Rd Butt Joint
	1158+25	-		STH 73	24	CTH B Butt Joint
	1166+50	-	1168+00	STH 73	48	Culvert Removal
	1185+25	-		STH 73	45	CTH BB/CTH B Butt Joint
	1236+75	-		STH 73	20	Old Ditch Road Butt Joint
	1303+50	-		STH 73	53	CTH K Butt Joint
	1339+50	-		STH 73	57	CTH D Butt Joint
	1350+75	-		STH 73	25	Swansons Rd Butt Joing
	1411+00	-		STH 73	22	Beyers Cove Butt Joint
	1417+70	-		STH 73	28	Reetz Rd Butt Joint
	1444+25	-		STH 73	78	CTH T Butt Joints
				TOTAL 0010	776	

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
1430-08-21
PRINCETON - RIPON
STH 73/PYE ALLEY ROAD INTERSECTION
STH 23
GREEN LAKE COUINTY



GN

LAYOUT
SCALE 0 1 MI.

CONVENTIONAL SYMBOLS

- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- NEW REFERENCE LINE
- NEW R/W LINE
- EXISTING R/W OR HE LINE
- PROPERTY LINE (P.L.)
- LOT, TIE & OTHER MINOR LINES
- SLOPE INTERCEPT
- CORPORATE LIMITS
- UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) (W (TYPE))
- 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
- GEODETIC SURVEY MONUMENT
- SIXTEENTH CORNER MONUMENT
- SIGN
- OFF-PREMISE SIGN (41.25)
- R/W MONUMENT (TO BE SET)
- NON-MONUMENTED R/W POINT
- FOUND IRON PIN (1-INCH UNLESS NOTED) IP
- ELECTRIC POLE
- TELEPHONE POLE
- PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)

	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		
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		
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

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 1430-08-21

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), GREEN LAKE COUNTY, NAD83(2011), IN U.S. 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.

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.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND 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, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED 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.

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, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS.

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	1430-08-21 -4. 01
SHEET	2 OF 2
AMENDMENT NO:	88

TRANSPORTATION PROJECT PLAT NO: 1430-08-21 - 4.01

THAT PART OF LOT 1 AND LOT 2 OF CSM 3348 LOCATED IN THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, AND THAT PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, AND PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4, ALL IN SECTION 28, TOWNSHIP 16 NORTH, RANGE 12 EAST, TOWN OF PRINCETON, GREEN LAKE COUNTY, WISCONSIN.

RELOCATION ORDER STH 23, PRINCETON - RIPON, STH73/PYE ALLEY ROAD INTERSECTION, GREEN LAKE 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.

HWY	BASIS OF EXISTING R/W
STH 73	CSM 3348
STH 73	TPP 1430-08-25 4.06 & 4.07
STH 73	1430-09-21
STH 73	S 0293(4)
STH 23	CSM 3348
STH 23	TPP 1430-08-25 4.06 & 4.07
STH 23	1430-09-21
STH 23	S 0293(4)
STH23	CSM 3325
PYE ALLEY RD	CSM 3325
PYE ALLEY RD	CSM 3781
PYE ALLEY RD	TPP 1430-08-25 4.06 & 4.07

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER (S)	INTEREST(S) REQUIRED	R/W ACRES REQUIRED			PLE ACRES	TLE ACRES
			NEW	EXISTING	TOTAL		
1	MCI REAL ESTATE HOLDINGS LLC	FEE	0.10	---	0.10	---	---
2	GREEN LAKE LODGING AND SPORTS	FEE	0.10	---	0.10	---	---
3	JAMES G. WESNER AND KATHLEEN D. WESNER REVOCABLE TRUST	FEE/TLE	0.26	---	0.26	---	0.08

COURSE	BEARING	DISTANCE
100-101	N89° 14' 53"E	1052.25'
101-102	N89° 14' 36"E	1154.07'
102-103	S00° 45' 24"E	33.00'
103-IP104	S89° 14' 36"W	205.68'
IP104-IP105	S79° 35' 43"W	101.43'
	(S79° 35' 31"W)	(101.43')
IP105-106	S89° 14' 36"W	49.79'
106-107	S84° 48' 21"W	481.79'
107-108	N87° 27' 58"W	108.65'
108-109	S48° 13' 59"W	148.38'
109-110	S83° 57' 25"W	221.21'
110-111	SEE CURVE 1 ON CURVE TABLE	
111-112	S89° 14' 57"W	119.68'
112-113	N87° 52' 17"W	200.25'
113-114	S89° 14' 53"W	350.00'
114-115	N85° 04' 11"W	101.00'
115-100	N00° 45' 07"W	55.00'

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED
101	CENTURYLINK	RELEASE OF RIGHTS

419230
RECORDED ON:
04/13/2023 08:49:45 AM

REC FEE: 25.00

VOL. OF TPPLT PG.
PAGES: 2

RENEE A. THIEM-KORTH
REGISTER OF DEEDS
GREEN LAKE, WI

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1430-08-21-4.01
SHEET 1 OF 2
AMENDMENT NO:___

4

SW-SW | SE-SW | SW-SE | SE-SE | NW-NW | NE-NW | NW-NE | NE-NE

TOWN OF PRINCETON

SIXTEENTH LINE | QUARTER LINE

PYE ALLEY RD

STH 23 | STH 73

FOUND CONCRETE MON. WITH BRASS CAP
Y = 270376.097
X = 535685.925

FOUND CONCRETE MON. WITH BRASS CAP
Y = 270410.823
X = 538331.650

FOUND 1-1/4" REBAR
Y = 270445.713
X = 540973.286

N89° 14' 53"E 1595.70' MON TO 100

S89° 14' 36"W 1487.79' MON TO 102

RL=N89°14'53"E SECTION LINE IS REFERENCE LINE

RL=N89°14'36"E SECTION LINE IS REFERENCE LINE

PI: 708+51.61 DELTA=00° 00' 17" LT

PYE ALLEY STORAGE CONDOMINIUM DOC 409824

LOT 1 CSM 3325 VOL 18 PG 3325

LOT 2 CSM 3781 VOL 22 PG 3781

LOT 1 CSM 3348 VOL 18 PG 3348

LOT 2 CSM 3348 VOL 18 PG 3348

LOT 3 CSM 1031 VOL 4 PG 1031

UNPLATTED LANDS

BLDG | SILO

(101) CENTURYLINK NO RECORD OF EASEMENT - PARCEL 1, 2, & 3

TLE FOR SLOPES AND GRADING 0.08 ACRES

Curve Table				
Curve #	L	R	LCH	LCB
C1	204.72'	360.28'	201.98'	N52° 58' 28"W

Point	Station	Offset
100	697+99.36	0.00'
101	708+51.61	0.00'
102	720+05.68	0.00'
103	720+05.68	33.00'
IP104	718+00.00	33.00'
IP105	717+00.01	50.00'
106	716+50.21	50.00'
107	711+69.87	87.28'
108	710+61.40	81.04'
109	709+49.43	178.41'
110	707+29.18	198.80'
111	705+69.54	75.07'
112	704+49.87	75.06'
113	702+49.87	65.00'
114	698+99.86	65.00'
115	697+99.36	55.00'
T120	720+05.68	43.00'
T121	718+39.87	43.00'
T122	717+64.87	55.50'

Point	Station	Offset
IP2348	696+99.90	54.96'
IP2359	695+99.93	45.07'
IP2675	705+21.51	-45.07'
IP2688	709+02.76	-95.44'
IP2691	708+93.51	-155.45'
IP2709	709+39.99	-59.96'
IP3045	711+45.05	49.90'
IP3447	713+51.51	49.99'
IP3810	720+47.97	-33.02'
IP4103	709+50.10	178.80'
IP4203	721+73.52	-70.11'
IP4204	721+72.95	-33.01'
IP4205	720+48.31	-60.07'
IP4206	708+82.23	-531.85'
IP4207	708+21.95	-543.96'
IP4208	707+90.07	-280.39'
IP4209	708+13.25	-280.31'
IP4210	707+47.30	-44.92'
IP4211	708+11.08	-95.48'
IP4212	704+94.80	-84.83'
IP4213	696+71.85	-84.99'
IP4218	704+97.23	55.04'
IP4220	707+29.26	200.20'
IP4222	722+99.94	56.01'
IP4223	722+35.01	32.91'

GN

0 100 200
SCALE: 1"=100'

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2

LOCATION MAP
1" = 1MI

R 11 E R 12 E
T 16 N T 15 N

PRINCETON | Snake | OLD GREEN LK | SINA RD | SWAMP RD | PRINCETON RD | PYE ALLEY | SALBEGO RD | LAZY L RD | JUDY LN | STAGE RD | BAY RD | 23

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), GREEN LAKE 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.

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.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS.

EXISTING ACCESS CONTROL ALONG STH 23 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT TPP 1430-08-25-4.07

AYRES

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 SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN BENJAMIN J LARSON S-3006 EAST TROY WISCONSIN LAND SURVEYOR

SIGNATURE: _____ DATE: 04/10/23

PRINT NAME: BENJAMIN J LARSON

REGISTRATION NUMBER: S-3006

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE DEPARTMENT

SIGNATURE: Brent L Stella DATE: 04/10/23

PRINT NAME: BRENT L STELLA

FILE NAME : V:\TRANS-MD\470382 STH 23-STH 73 INTERSECTION\C3D\RW\ROW PLAT\STH 23 TPP.DWG
APPRAISAL PLAT DATE : 04/10/2023
PLOT DATE : 4/10/2023 11:55 AM PLOT BY : LARSON, BENJAMIN PLOT NAME : PLOT SCALE : 1 IN:100 FT

1430-08-21-4.01

4

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

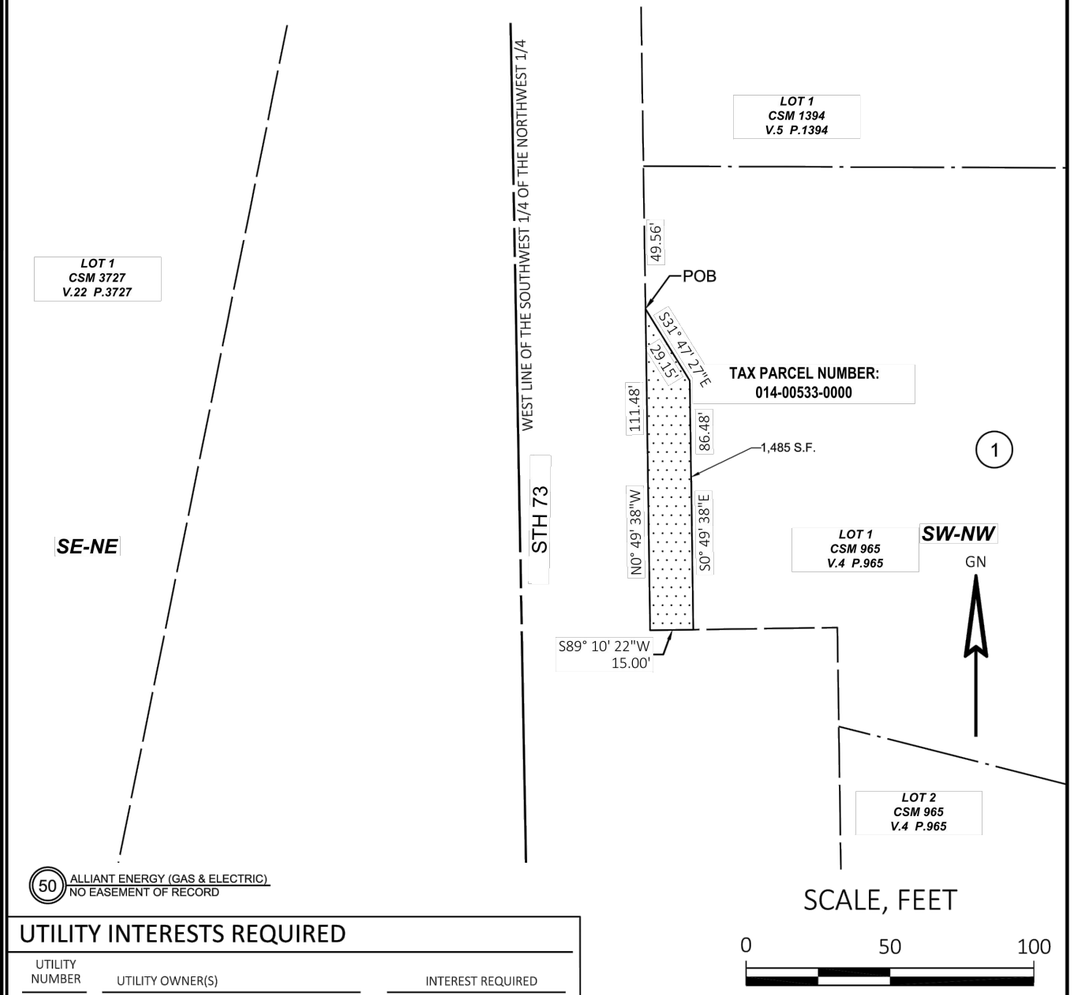
THIS TLE IS FOR THE RIGHT TO CONSTRUCT, CUT, AND/OR FILL SLOPES, INCLUDING FOR SUCH PURPOSE THE RIGHT TO OPERATE THE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES DEEM NECESSARY OR DESIRABLE.

R/W PROJECT NUMBER: 6640-00-20	EXHIBIT NUMBER: 1

TLE ACQUISITION EXHIBIT
COLUMBUS - PRINCETON
N JCT 44 TO S JCT STH 23

STH 73 — GREEN LAKE COUNTY

PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 15, T15N, R12E, TOWN OF MARQUETTE, GREEN LAKE COUNTY, WISCONSIN.



UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
N/A	N/A	N/A

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS 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	PLE S.F.	TLE S.F.
1	DIANE Y. WHITE AND KELLY L. WHITE	TLE	0	1,485

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
NORTH CENTRAL REGION WISCONSIN RAPIDS

SIGNATURE: _____ DATE: _____

PRINT NAME: _____

FILE NAME : STH 73 TLE EXHIBITS.DWG PLOT DATE : 4/5/2023 8:47 AM R/W PROJECT: 6640-00-20

4

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

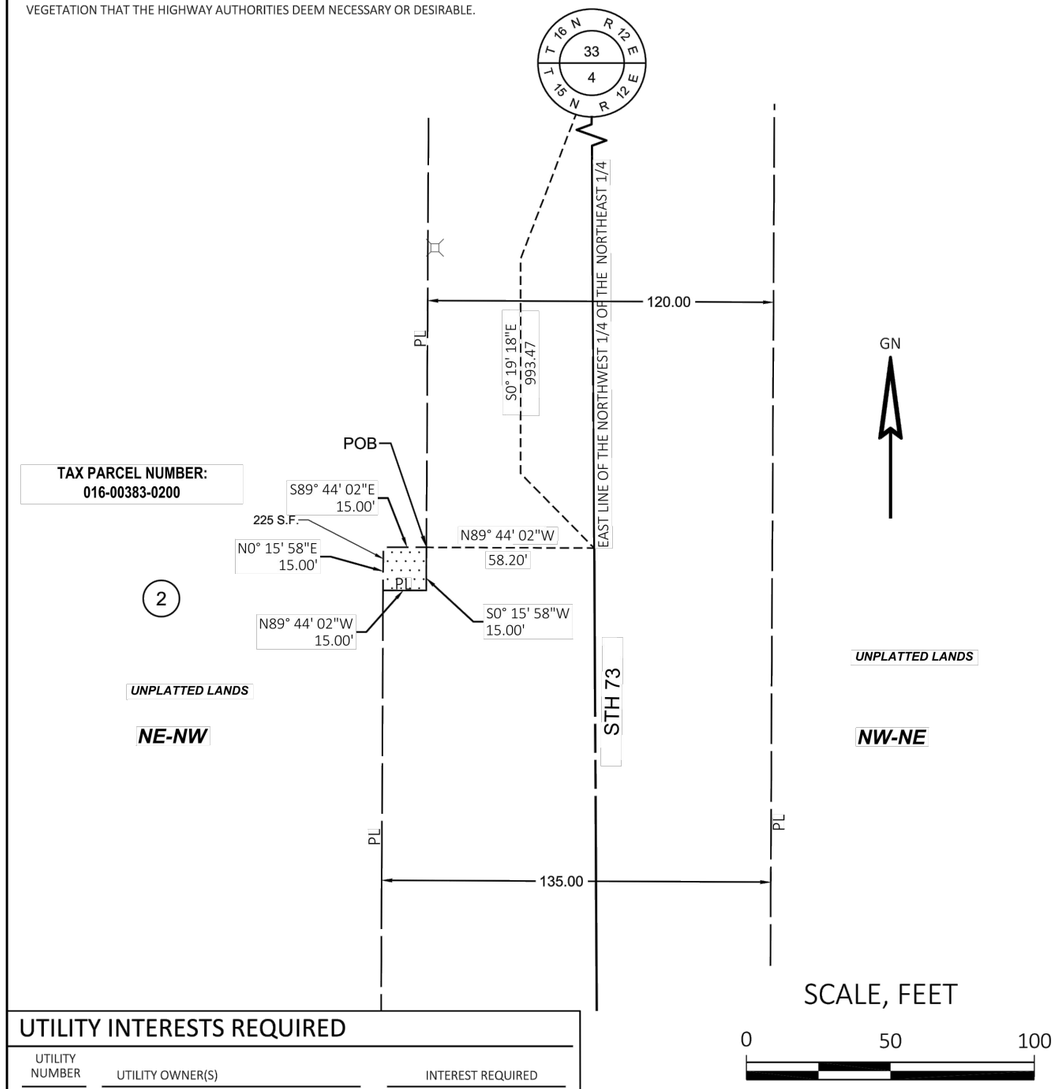
THIS TLE IS FOR THE RIGHT TO CONSTRUCT, CUT, AND/OR FILL SLOPES, INCLUDING FOR SUCH PURPOSE THE RIGHT TO OPERATE THE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES DEEM NECESSARY OR DESIRABLE.

R/W PROJECT NUMBER: 6640-00-20	EXHIBIT NUMBER: 2

TLE ACQUISITION EXHIBIT
COLUMBUS - PRINCETON
N JCT 44 TO S JCT STH 23

STH 73 — GREEN LAKE COUNTY

PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 4, T15N, R12E, TOWN OF PRINCETON, GREEN LAKE COUNTY, WISCONSIN.



UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
N/A	N/A	N/A

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS 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	PLE S.F.	TLE S.F.
2	CAROL A. SIDDAL	TLE	0	225

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
NORTH CENTRAL REGION WISCONSIN RAPIDS

SIGNATURE: _____ DATE: _____

PRINT NAME: _____

FILE NAME : STH 73 TLE EXHIBITS.DWG PLOT DATE : 4/5/2023 8:44 AM R/W PROJECT: 6640-00-20

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	TLE	SHEET 90	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_040101_RP.DWG
LAYOUT NAME - 01

PLOT DATE : 6/26/2023 9:52 AM PLOT BY : MUENCH, DOUGLAS PLOT NAME : PLOT SCALE : 1 IN:20 FT

BEGIN PROJECT 1430-08-81
STA 396+89.54
Y=270,382.561
X=537,169.722

STA 405+76, RT
REMOVE 1 - 18" CMCP
50' CULVERT PIPE CLASS III-A 18-INCH REQ'D
2 - APRON ENDWALLS REQ'D

STA 411+64, RT
REMOVE 1 - 18" CMCP
36' CULVERT PIPE CLASS III-A 18-INCH REQ'D
2 - APRON ENDWALLS REQ'D

STA 412+47, 42' RT
REMOVE 1 - APRON ENDWALL
16' CPRC CLASS III 24-INCH EXTENSION REQ'D
1 - APRON ENDWALL REQ'D
1 - CONCRETE COLLAR FOR PIPE

END PROJECT 1430-08-81
STA STA 420+05.81
Y=270,412.809
X=539,485.798

1523+88.30 (STH 73) =
408+51.73 (STH 23)
Y = 270,410.752
X = 538,331.642

PI 408+51.61
Y = 270,410.750
X = 538,331.520

END CONSTRUCTION PROJECT 6640-00-70
BEGIN CONSTRUCTION PROJECT 1430-08-81
STA 1522+13.32

STH 23/73
STH 23
STH 73
PYE ALLEY
N89°14'57"E
N89°14'24"E
N0°13'04"W

EXISTING R/W
SAWCUT REQ'D (TYP)
ALLIANT ENERGY
CP 100
BRIGHTSPEED
APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA
PROPOSED R/W
REMOVE EXISTING PRIVATE SIGN
CE
SI
PROPOSED TLE
CP 101
CP 102
CP 907
BM 1006
WISDOT WEATHER STATION (TO REMAIN)

FLORENCE E IRREV TRUST HEBBE
MCI REAL ESTATE HOLDINGS LLC
GREEN LAKE LODGING AND SPORTS LLC
WESNER I REVOCABLE TRUST, JAMES G & KATHLEEN D

Control & Benchmark Table

Point #	Code	Northing	Easting	Elevation	Description
100	CP	270366.65	537213.08	854.94	REBAR/CAP
101	CP	270370.32	538280.48	855.64	3/4" REBAR
102	CP	270393.25	539284.42	857.04	REBAR/CAP
907	CP	270149.97	538288.89	854.81	REBAR/CAP
1006	BM	270235	538405	850.29	RR SPIKE IN PPOL

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	PLAN	SHEET 91	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_050201_PN.DWG
LAYOUT NAME - 01 (100)
PLOT DATE : 9/19/2023 5:37 PM
PLOT BY : KUSCHEL, LEVI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
BM 1015	995+12.77	47.71' RT	879.85'	RR SPIKE IN W FACE PPOL 14N 12E 10 29/44
BM 1013	1002+68.24	47.38' RT	879.19'	RR SPIKE IN W FACE PPOL 14N 12E 10.0

N

STH 44

999+31.98 (STH 73) =
544+46.90 (STH 44)
X = 545,357.996
Y = 220,004.385

BUTT JOINT REQ'D

EXISTING R/W

SI

WE ENERGIES

990 STH 44/73 992 994 996 998 1000 1002 1004 STH 73

N0°48'12"E

N1°18'59"E

STA 990+00
X = 545,344.931
Y = 219,072.493

BRIGHTSPEED

BEGIN PROJECT 6640-00-70
STA 994+85.00
BUTT JOINT REQ'D
MATCH EXISTING

BM 1015

ALLIANT ENERGY

EXISTING R/W

BM 1013

5

5

N

STA 1014+78.46
CULVERT #24073005020
REMOVE STRUCTURE
1-71" X 47" X 54' POLYMER COATED CSPA REQ'D
2-ENDWALLS REQ'D
SKEWED 4° RHF
(SEE DETAILS)

EXISTING R/W

SI

WE ENERGIES

STH 73 1006 1008 1010 1012 1014 1016 1018 STH 73 1020

N1°18'59"E

BUG TUSSEL

BM 1021

BM 1022

SI

ALLIANT ENERGY

EXISTING R/W

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
BM 1021	1013+48.91	48.50' RT	876.22'	RR SPIKE IN W FACE PPOL 14N 12E 10 42/40
BM 1022	1015+64.31	47.90' RT	875.74'	RR SPIKE IN W FACE PPOL 14N 12E 10 42/42

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 92	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 01

PLOT DATE : 9/27/2023 11:20 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
BM 1019	1041+84.90	47.39' RT	908.61'	RR SPIKE IN W FACE PPOL 14N 12E 03 40/16
BM 1020	1044+06.55	46.70' RT	908.22'	RR SPIKE IN W FACE PPOL 14N 12E 03 40/18

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 93	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 02

PLOT DATE : 9/27/2023 11:20 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

5

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
BM 1017	1072+17.21	48.14' RT	900.08'	RR SPIKE IN W FACE PPOL 14N 12E 03
BM 1018	1076+59.34	47.61' RT	906.06'	RR SPIKE IN W FACE PPOL 14N 12E 03

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 94	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 03

PLOT DATE : 9/27/2023 11:20 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

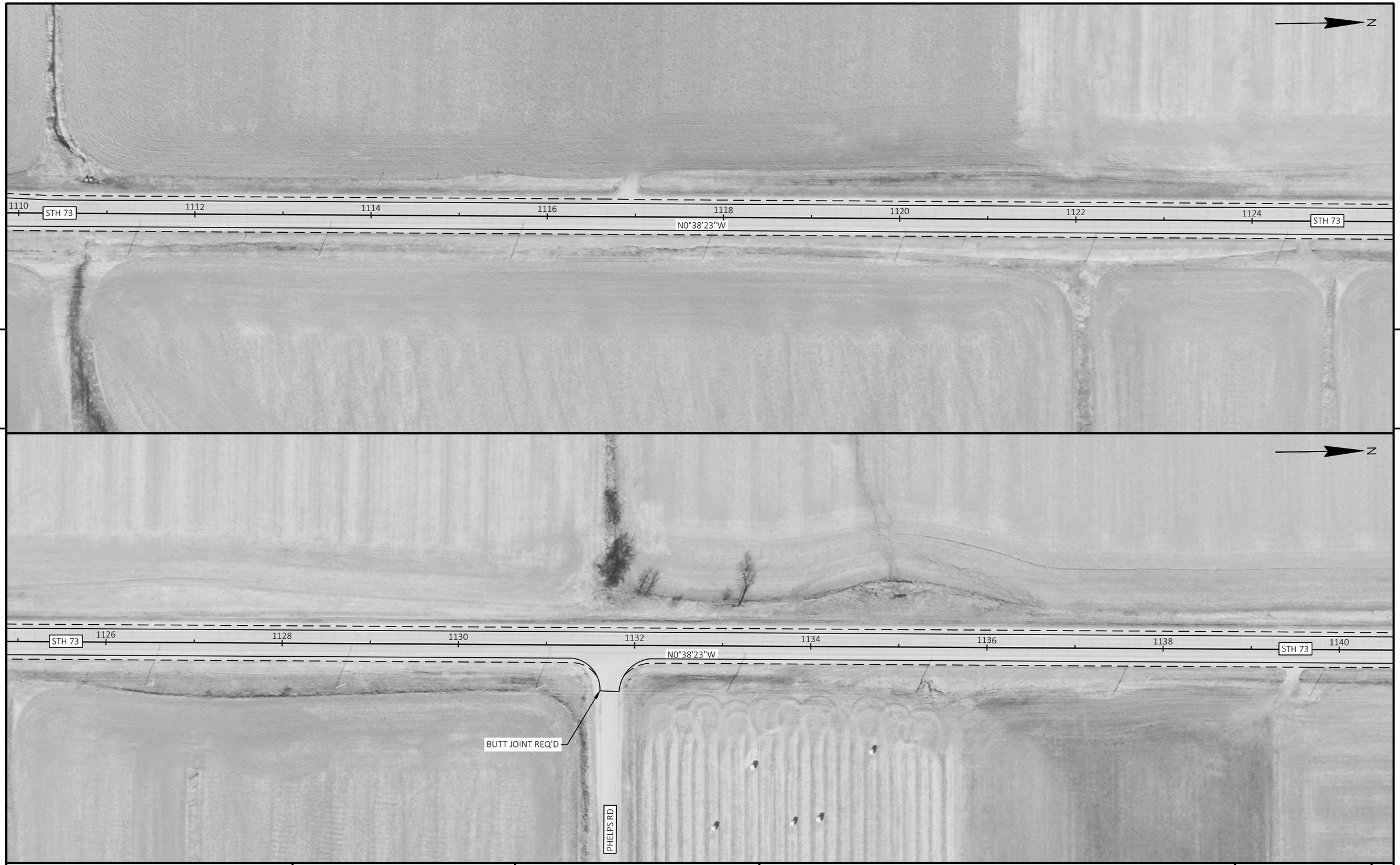
5

5

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 95	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 04

PLOT DATE : 9/27/2023 11:20 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 96	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 05

PLOT DATE : 9/27/2023 11:20 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

5

5

N

1140 STH 73 1142 1144 1146 1148 1150 1152 1154 STH 73

N0°38'23"W

PC: 1153+54.38

N

CTH B

PI STA = 1167+98.01
Y = 236868.709
X = 545308.618
DELTA = 37°08'09"
D = 1°20'00"
T = 1443.63'
L = 2785.46'
R = 4297.60'
PC STA = 1153+54.38
Y = 235425.174
X = 545324.735
PT STA = 1181+39.84
Y = 238009.774
X = 544424.297
BK = N00°38'22.9"W
AH = N37°46'32.0"W
SE = 3.6% (MATCH EXISTING)

BUTT JOINT REQ'D

EXISTING R/W

SI

WE ENERGIES

STH 73 1156 1158 1160 1162 1164 1166 1168 1170 STH 73

HO HO HO HO HO HO HO HO

ALLIANT ENERGY

EXISTING R/W

BM 1012

SI

BUG TUSSEL

BM 1011

BRIGHTSPEED

STA 1167+29.99
CULVERT #24073005027
REMOVE 42" X 29" X 57' CMPA
1-42" X 29" X 58' POLYMER COATED CPCS REQ'D
2-ENDWALLS REQ'D
SKEWED 4° RHF
(SEE DETAILS)

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
BM 1012	1166+39.16	50.19' RT	918.91'	RR SPIKE IN SW FACE PPOL 15N 12E 27
BM 1011	1168+98.45	50.40' RT	912.90'	RR SPIKE IN SW FACE PPOL 15N 12E 27

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 97	E

PI STA = 1167+98.01
Y = 236868.709
X = 545308.618
DELTA = 37°08'09"
D = 1°20'00"
T = 1443.63'
L = 2785.46'
R = 4297.60'
PC STA = 1153+54.38
Y = 235425.174
X = 545324.735
PT STA = 1181+39.84
Y = 238009.774
X = 544424.297
BK = N00°38'22.9"W
AH = N37°46'32.0"W
SE= 3.6% MATCH EXISTING)

EXISTING R/W

ALLIANT ENERGY

STH 73

N37°46'32"W

PT: 1181+39.84

CTH BB

BUTT JOINT REQ'D

APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA

REPLACE CURB & GUTTER
-REMOVING CURB & GUTTER
-CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

REPLACE CURB & GUTTER
-REMOVING CURB & GUTTER
-CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

EXISTING R/W

APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA

REPLACE CURB & GUTTER
-REMOVING CURB & GUTTER
-CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

REPLACE GUARDRAIL (SEE DETAILS)

EXISTING R/W

BRIGHTSPEED

WE ENERGIES

SI

ALLIANT ENERGY

STH 73

N37°46'32"W

REPLACE CURB & GUTTER
-REMOVING CURB & GUTTER
-CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

CTH B

BUTT JOINT REQ'D

BRIGHTSPEED

BUG TUSSEL

SI

BM 1010

STA 1200+54
EXISTING 70" X 48" CMPA
(TO REMAIN)

EXISTING R/W

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
BM 1010	1197+06.32	59.30' RT	845.74'	RR SPIKE IN SW FACE PPOL

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 98	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 07

PLOT DATE : 9/27/2023 11:21 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

5

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
BM 1009	1205+24.69	68.81' LT	829.86'	RR SPIKE IN E FACE PPOL 15N 12E 22

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 99	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 08

PLOT DATE : 9/27/2023 11:21 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

5

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 100	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 09

PLOT DATE : 9/27/2023 11:21 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

N

BM 1008

EXISTING R/W

WE ENERGIES

ALLIANT ENERGY

BRIGHTSPEED

1260 STH 73 1262 1264 1266 1268 1270 1272 1274 STH 73

N0°49'38"W

BRIGHTSPEED

SI

BUG TUSSEL

REPLACE GUARDRAIL (SEE DETAILS)

EXISTING R/W

5

5

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
BM 1008	1271+41.25	59.67' LT	847.04'	RR SPIKE IN E FACE PPOL
BM 1007	1278+35.77	64.03' LT	829.20'	RR SPIKE IN E FACE PPOL

N

WE ENERGIES

EXISTING R/W

BM 1007

BRIGHTSPEED

ALLIANT ENERGY

PED 825.536 2018

PC: 1287+79.74

APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA

STH 73 1276 1278 1280 1282 1284 1286 1288 1290 STH 73

N0°49'38"W

TLE (TYP)

WE ENERGIES

BRIGHTSPEED

BUG TUSSEL

SI

REPLACE GUARDRAIL (SEE DETAILS)

EXISTING R/W

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 101	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 10

PLOT DATE : 9/27/2023 11:21 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

PI STA = 1293+72.33
Y = 248177.360
X = 541097.018
DELTA = 34°28'26"
D = 2°59'59"
T = 592.59'
L = 1149.21'
R = 1910.00'
PC STA = 1287+79.74
Y = 247584.828
X = 541105.573
PT STA = 1299+28.95
Y = 248660.992
X = 540754.574
BK = N00°49'37.8"W
AH = N35°18'03.8"W
SE = 5.4% (MATCH EXISTING)

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
BM 1005	1301+76.69	47.02' RT	829.31'	RR SPIKE IN W FACE PPOL 15N 12E 03 16 44/51
BM 1004	1305+49.59	64.60' LT	823.15'	RR SPIKE IN 1ST PPOL NW OF CTH K

STH 73
1290
1292
1294
1296
1298
PT: 1299+28.95
1300
1302
1304
N35°18'04"W
MAPLE RD
BUTT JOINT REQ'D
APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA
REPLACE CURB & GUTTER
-REMOVING CURB & GUTTER
-CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
REPLACE ISLAND (SEE SDD 9A1-b)
-REMOVING CURB
-REMOVING ASPHALTIC SURFACE
-CONCRETE CURB TYPE J
-ASPHALTIC SURFACE SAFETY ISLANDS
EXISTING R/W
BM 1004
BRIGHTSPEED
ALLIANT ENERGY
BM 1005
BUTT JOINT REQ'D
WE ENERGIES
EXISTING R/W
CTH K
APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA
EXISTING R/W

APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA
BRIGHTSPEED
BM 1004
EXISTING R/W
ALLIANT ENERGY
STH 73
1306
1308
1310
1312
1314
1316
1318
1320
N35°18'04"W
EXISTING R/W

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 102	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 11
PLOT DATE : 9/27/2023 11:21 AM
PLOT BY : KUSCHEL, LEVI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

5

N

1320 STH 73 1322 1324 1326 1328 1330 1332 1334 STH 73

N35°18'04"W

PC: 1333+87.64

BRIGHTSPEED

BUTT JOINT REQ'D

CTH D

WE ENERGIES

REPLACE CURB & GUTTER
-REMOVING CURB & GUTTER
-CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

PT: 1345+31.83

N

1336 STH 73 1338 1340 1342 1344 1346 1348 N0°58'40"W STH 73 1350

REPLACE ISLAND (SEE SDD 9A1-b)
-REMOVING CURB
-REMOVING ASPHALTIC SURFACE
-CONCRETE CURB TYPE J
-ASPHALTIC SURFACE SAFETY ISLANDS

PI STA = 1339+77.48
Y = 251965.105
X = 538415.040
DELTA = 34°19'24"
D = 2°59'59"
T = 589.84'
L = 1144.20'
R = 1910.00'
PC STA = 1333+87.64
Y = 251483.718
X = 538755.894
PT STA = 1345+31.83
Y = 252554.863
X = 538404.975
BK = N35°18'03.8"W
AH = N00°58'39.8"W
SE = 5.4% (MATCH EXISTING)

ALLIANT ENERGY

BUTT JOINT REQ'D

SWANSONS RD

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 103	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 12

PLOT DATE : 9/27/2023 11:21 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

5

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 104	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 13

PLOT DATE : 9/27/2023 11:22 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

N

1380 STH 73 1382 1384 1386 1388 1390 1392 1394 STH 73

N0°15'58"E

APPROXIMATE BOUNDARY OF ENVIRONMENTALLY SENSITIVE AREA

5

5

BENCH MARKS

NO.	STATION	OFFSET	ELEV.	DESCRIPTION
BM 1003	1405+33.07	59.25' RT	809.59'	RR SPIKE IN FACE PPOL 15N 12E 26/41
BM 1002	1407+68.14	58.20' RT	807.69'	RR SPIKE 2ND POLE SOUTH OF BEYERS COVER

STA 1407+62' LT
REMOVE 1 - APRON ENDWALL
12' CULVERT PIPE CORRUGATED STEEL 18" EXTENSION REQ'D
1 - APRON ENDWALL REQ'D
1 - CONCRETE COLLAR FOR PIPE
(SEE DETAILS)

N

EXISTING R/W
WE ENERGIES
BRIGHTSPEED
SI
REPLACE GUARDRAIL (SEE DETAILS)
TLE

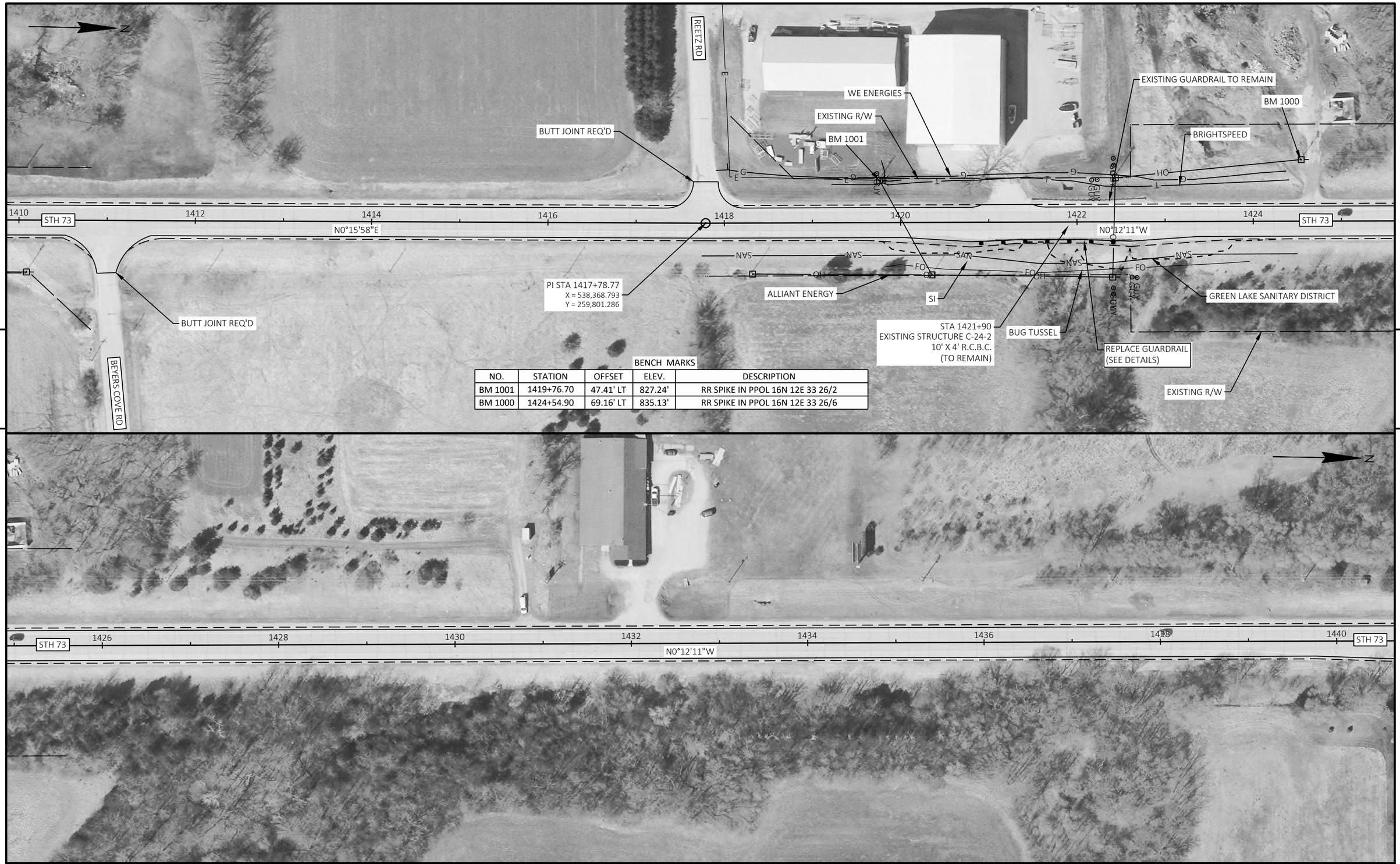
STH 73 1396 1398 1400 1402 1404 1406 1408 STH 73 1410

N0°15'58"E

BM 1003
SAN
FO
OH
STA 1406+94
EXISTING STRUCTURE C-24-1
7' X 5' R.C.B.C.
(TO REMAIN)
BUTT JOINT REQ'D
BUG TUSSEL
SI
BM 1002
ALLIANT ENERGY
GREEN LAKE SANITARY DISTRICT
EXISTING R/W
RADTKE RD

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 105	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 14
PLOT DATE : 9/27/2023 11:22 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT



NO.	STATION	OFFSET	ELEV.	DESCRIPTION
BM 1001	1419+76.70	47.41' LT	827.24'	RR SPIKE IN PPOL 16N 12E 33 26/2
BM 1000	1424+54.90	69.16' LT	835.13'	RR SPIKE IN PPOL 16N 12E 33 26/6

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 106	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 15

PLOT DATE : 9/27/2023 11:22 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

5

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 107	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 16

PLOT DATE : 9/27/2023 11:22 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

5

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 108	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\SHEETSPLAN\66400070_050201_PN.DWG
LAYOUT NAME - 17

PLOT DATE : 9/27/2023 11:22 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

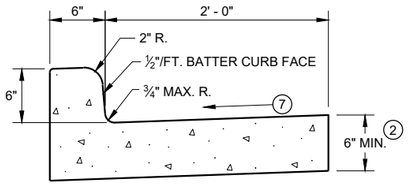
5

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	PLAN	SHEET 109	E

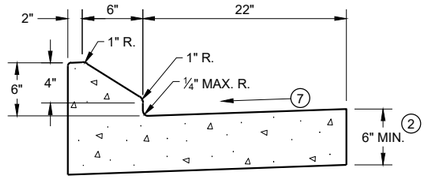
Standard Detail Drawing List

08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
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
09A01-14A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-14B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
13A11-04A	CENTERLINE RUMBLE STRIPS - ASPHALT
13A11-04D	CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-14A	RURAL DOWELED CONCRETE PAVEMENT
13C11-14B	RURAL DOWELED CONCRETE PAVEMENT
13C18-08A	CONCRETE PAVEMENT JOINTING
13C18-08B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-08C	CONCRETE PAVEMENT JOINT TYPES
13C18-08D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-08F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
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)
14B53-02A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-02F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09D	ON RAMP LANE CLOSURE
15C02-09F	ADVANCED WIDTH RESTRICTION SIGNING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-08A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-08C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15C35-06B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-06C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-05D	TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL
15D48-01	TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

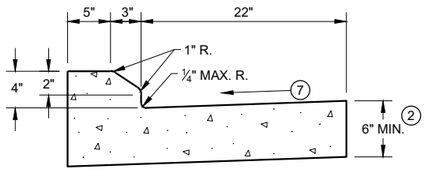
6



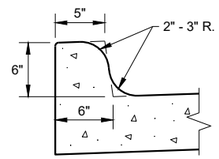
TYPES A (1) & D



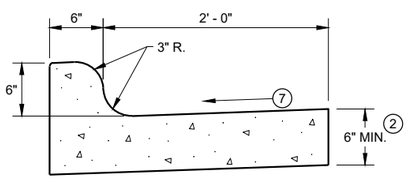
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

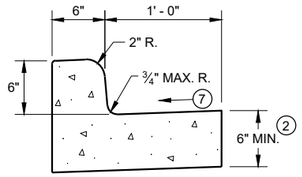


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



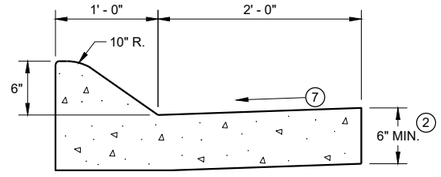
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

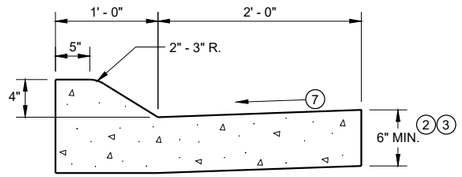


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

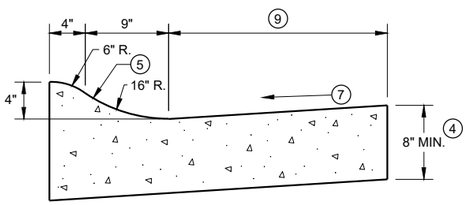


6" SLOPED CURB TYPES A (1) & D



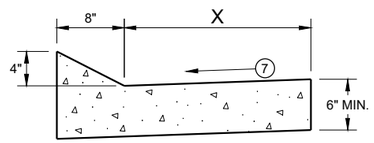
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

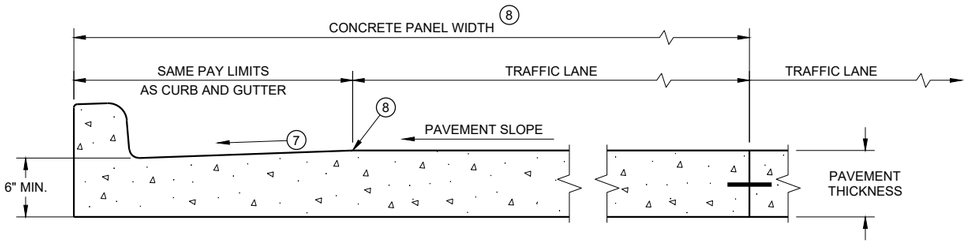


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

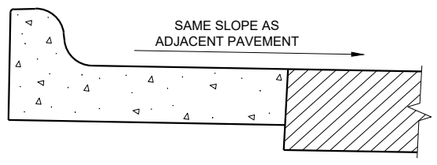
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

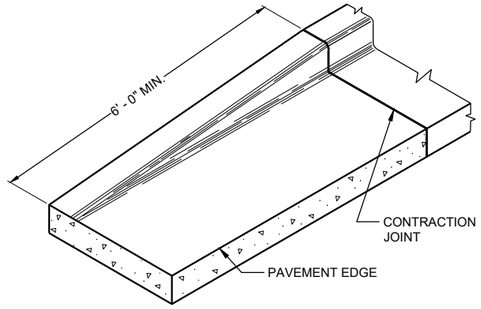
(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

(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

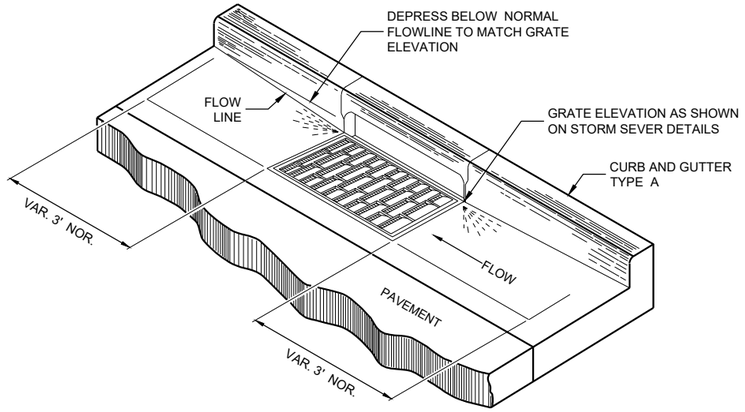
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 08D01 - 23a



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.

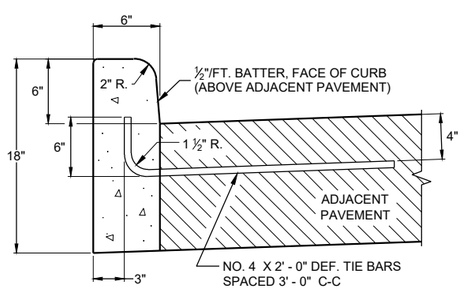
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

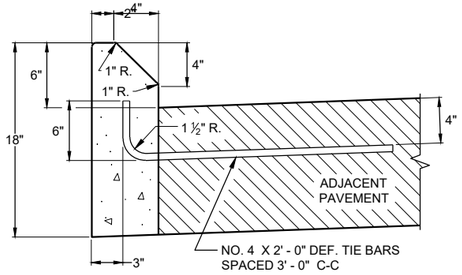
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(10) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

(11) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.

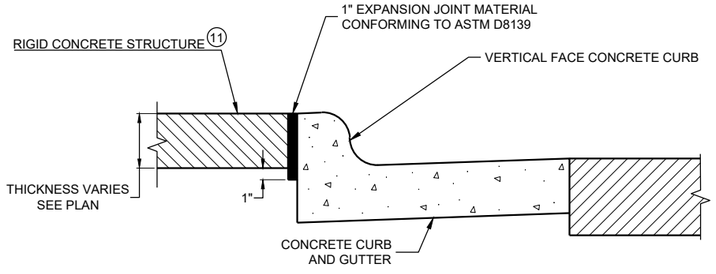


TYPES A (1) & D

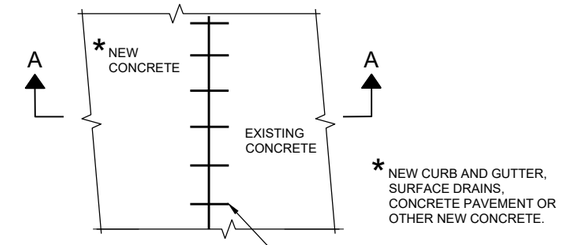


TYPES G (1) & J

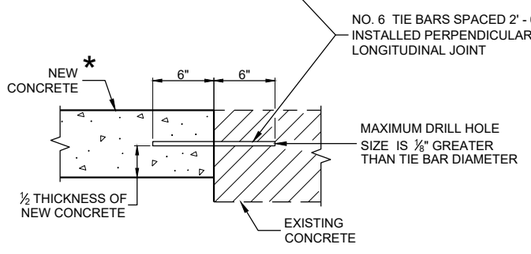
CONCRETE CURB



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)

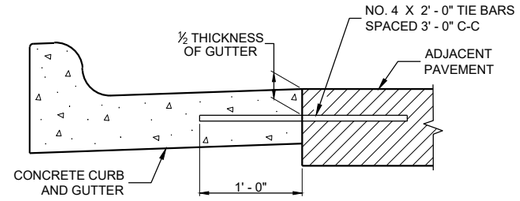


PLAN VIEW

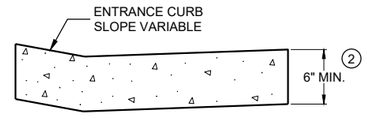


SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

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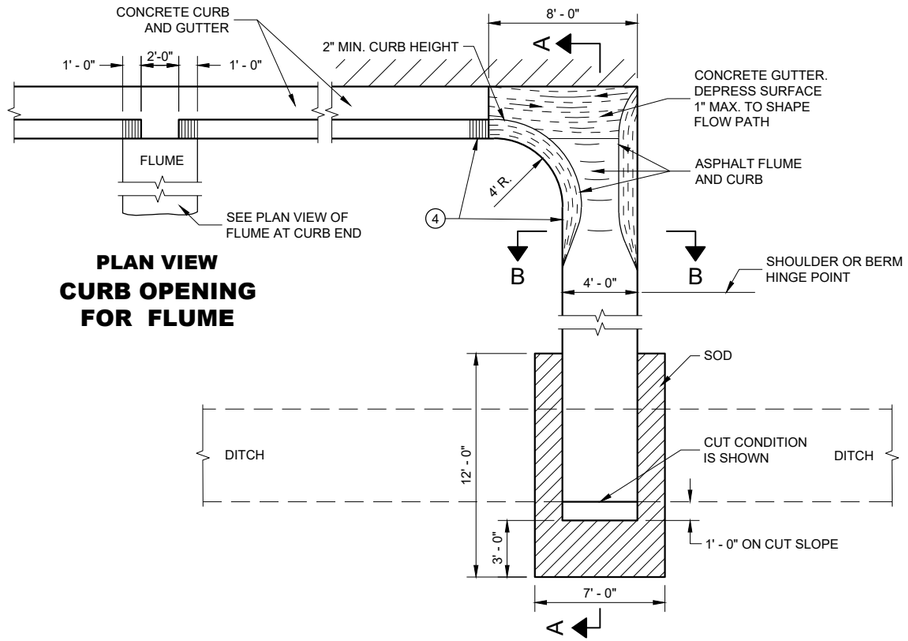
SDD08D01 - 23b

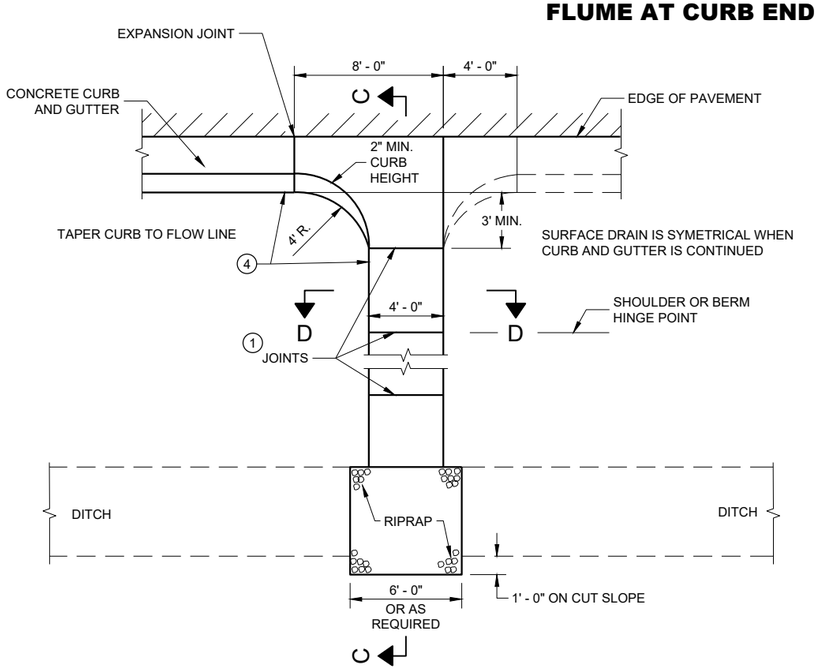
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



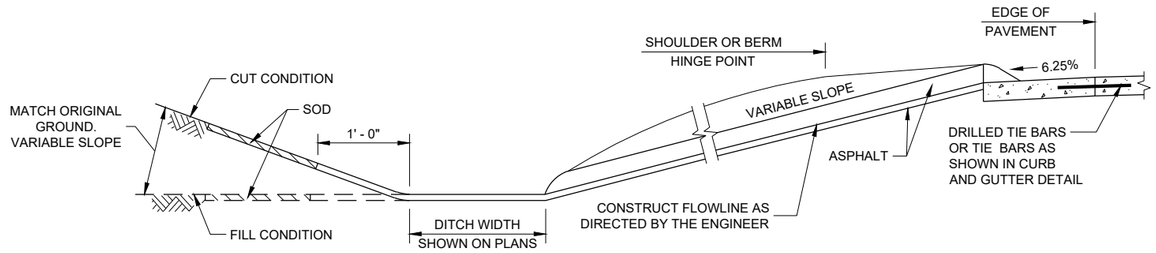
PLAN VIEW
CONCRETE SURFACE DRAIN

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.

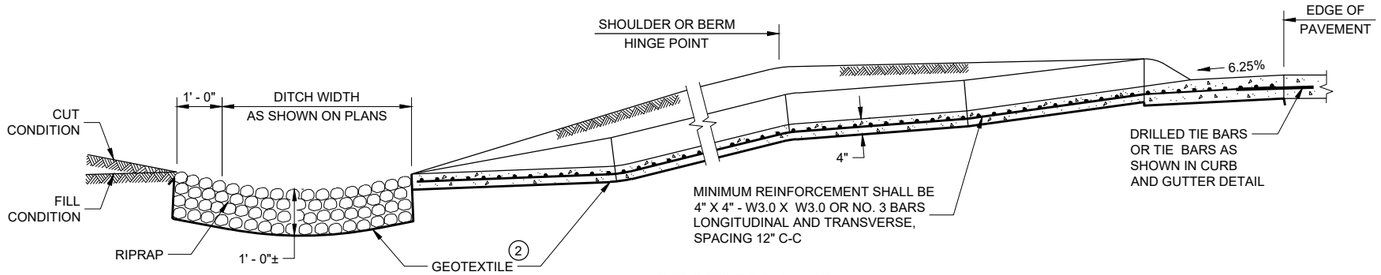
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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.

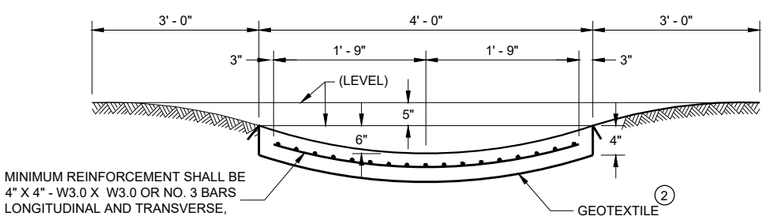


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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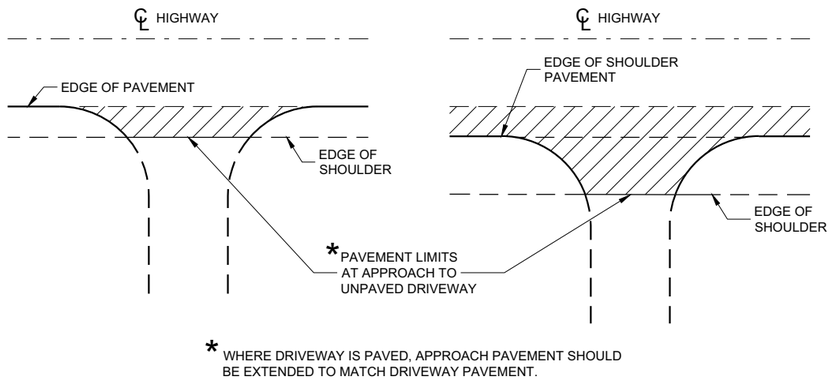
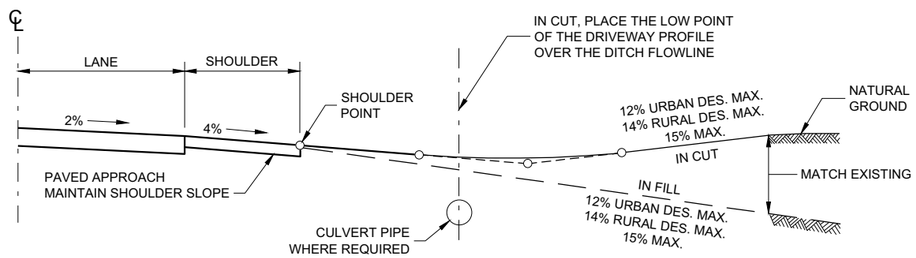
SDD 08D04 - 07



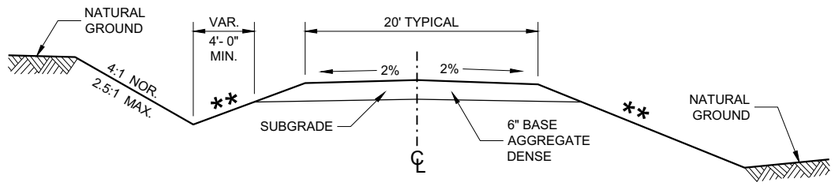
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB AND GUTTER OR SIDEWALK)



TYPICAL DRIVEWAY PROFILES

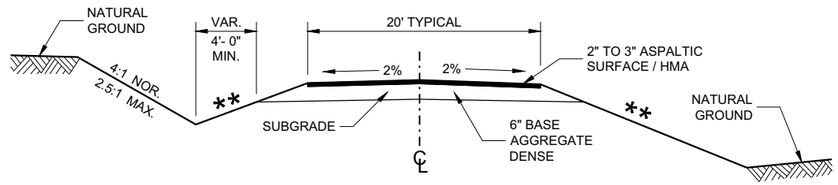


IN CUT IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** 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



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

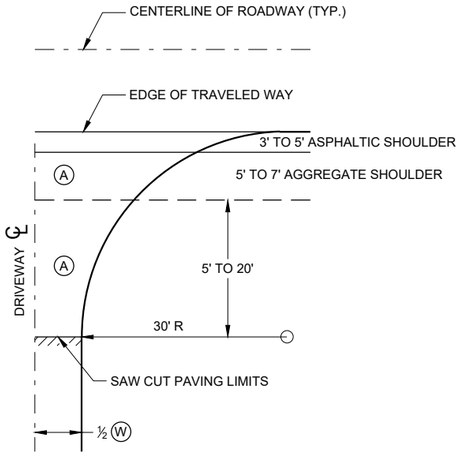
APPROVED
December 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

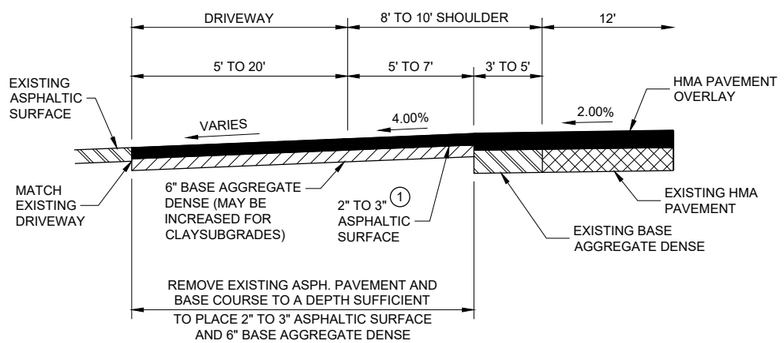
GENERAL NOTES

(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PLAN VIEW

HALF SECTION



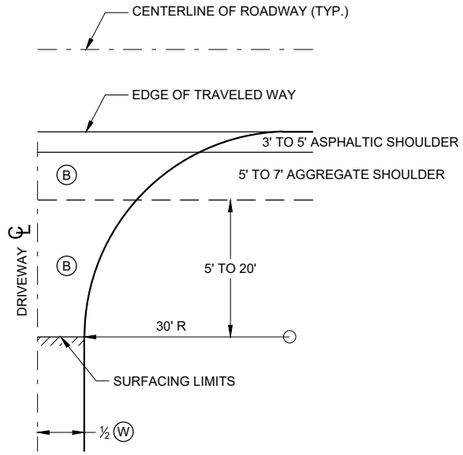
PROFILE VIEW

RURAL ENTRANCE
WITH ASPHALTIC SURFACE
RESURFACING PROJECTS

(A) : PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES. (TON)

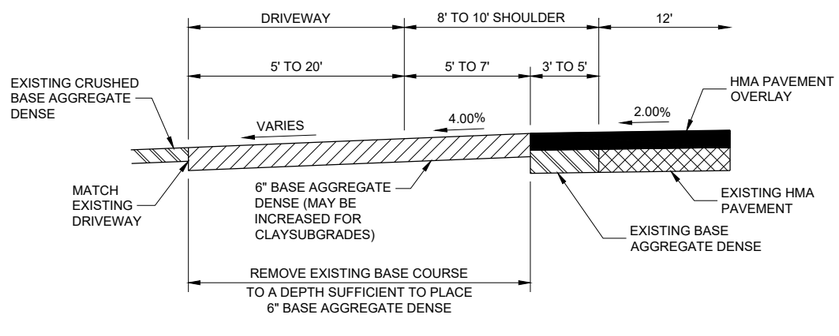
(B) : PAID FOR AS BASE AGGREGATE DENSE 1 ¼" (TON)

(W) : DRIVEWAY WIDTH 16' MIN. - 24' MAX.



PLAN VIEW

HALF SECTION



PROFILE VIEW

RURAL ENTRANCE
WITH AGGREGATE SURFACE
6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

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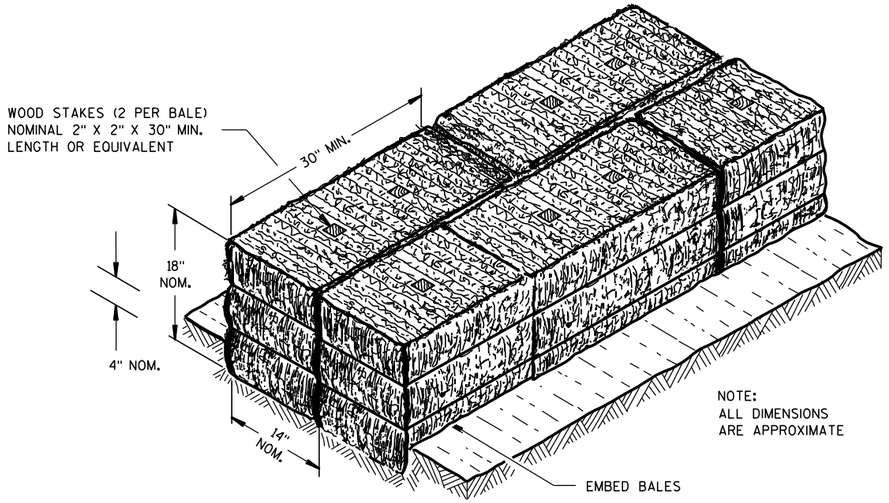
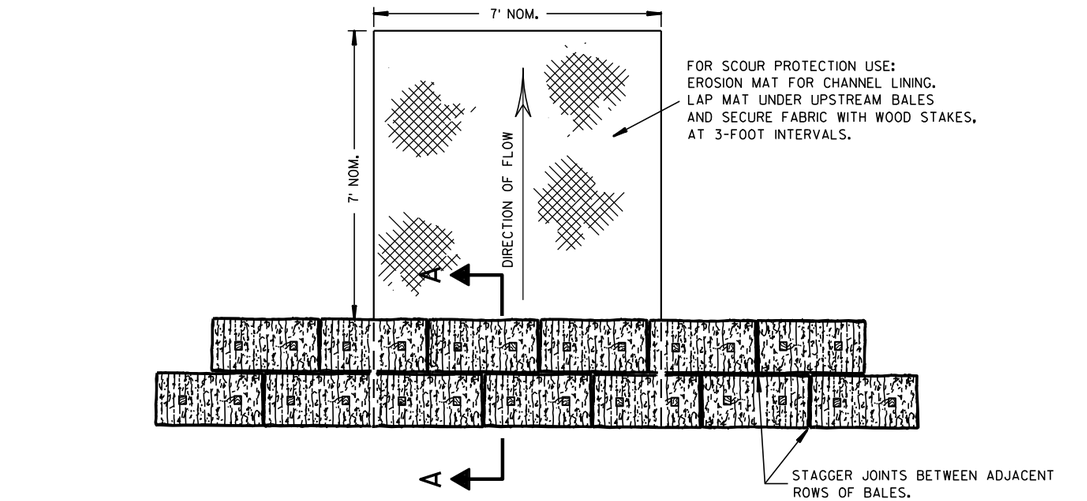
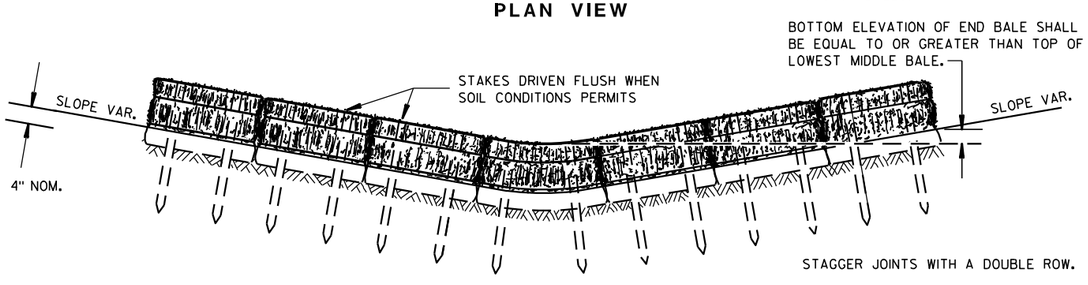
SDD 08D22 - 01



SECTION A-A



PLAN VIEW



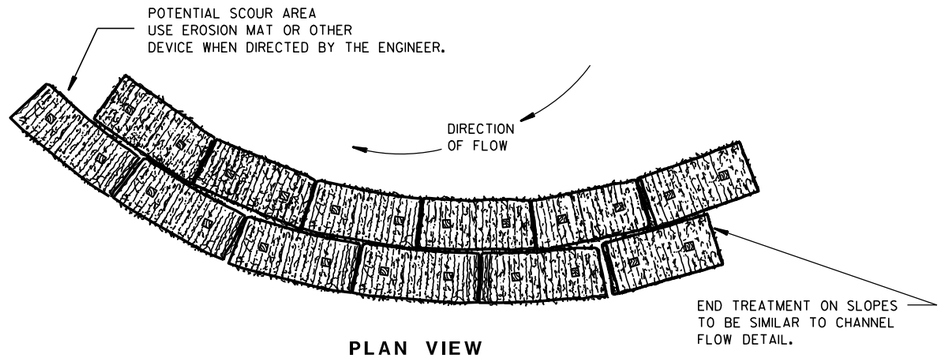
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

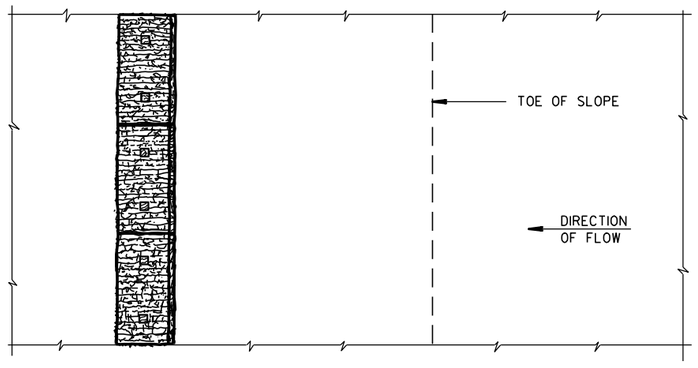
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

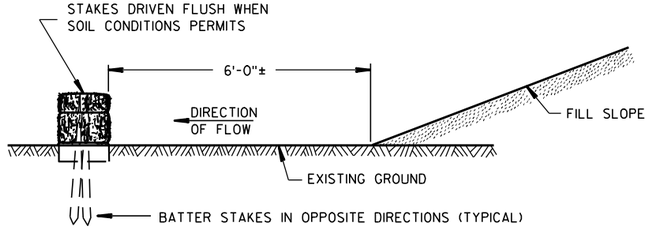


PLAN VIEW

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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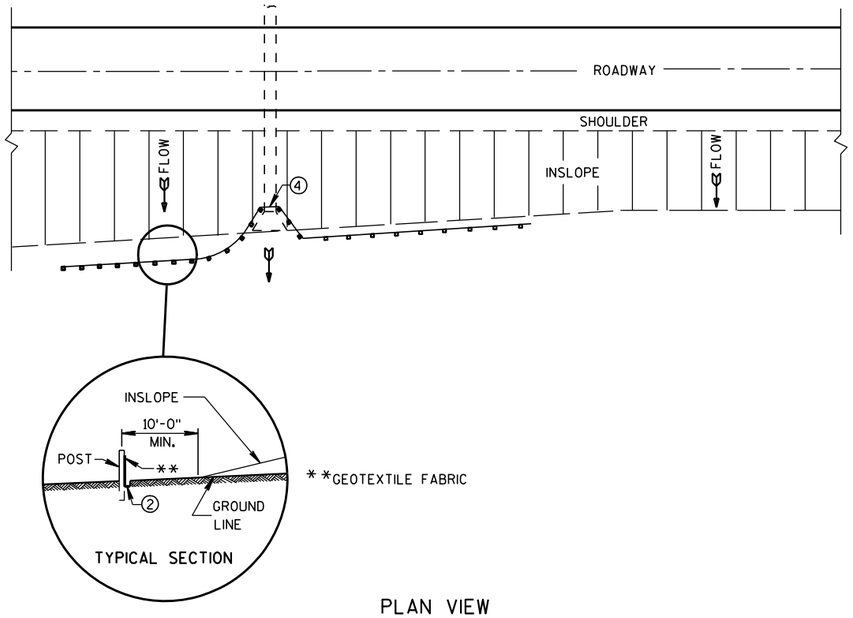
S.D.D. 8 E 8-3

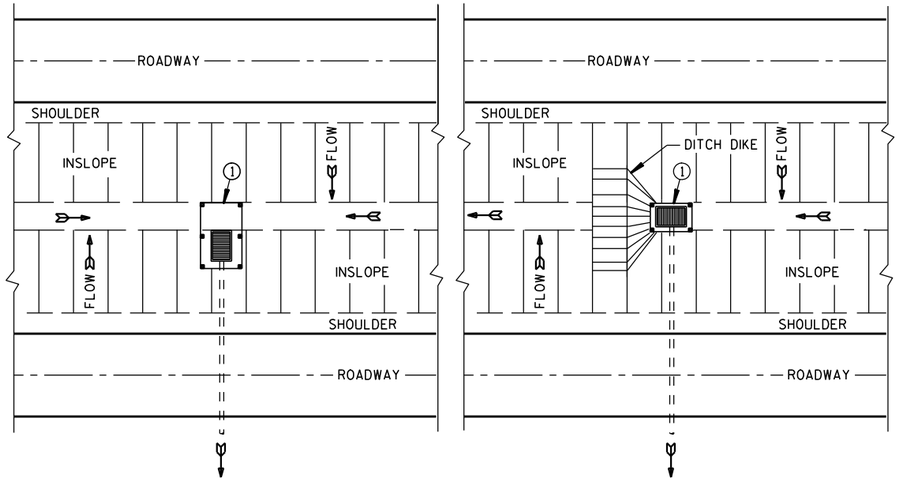
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



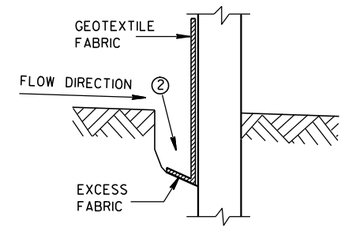
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

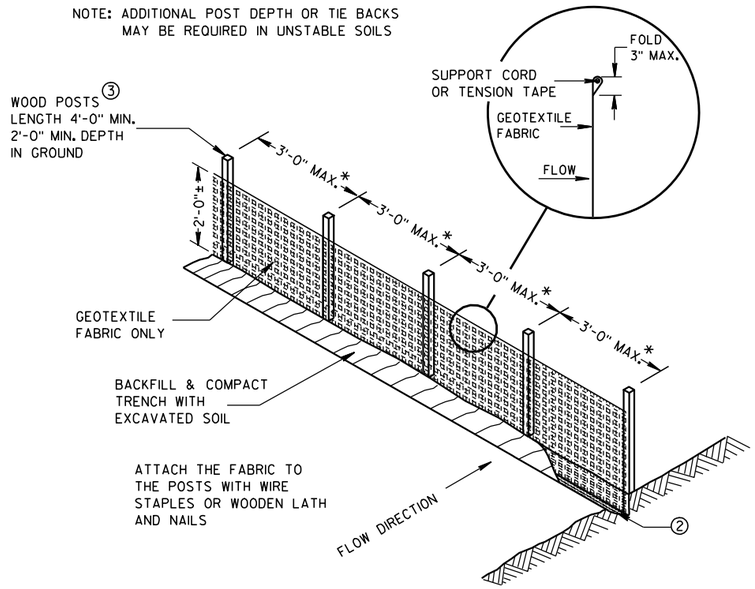
GENERAL NOTES

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

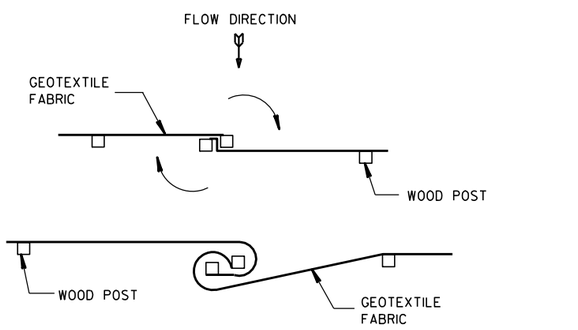
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



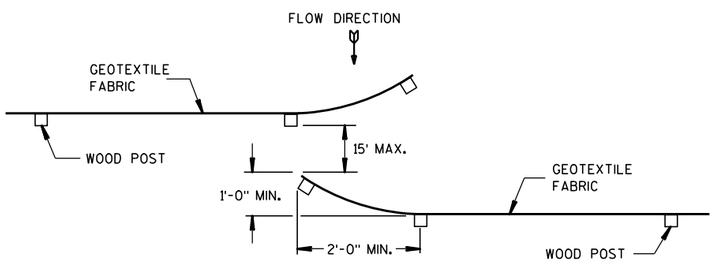
TRENCH DETAIL



SILT FENCE

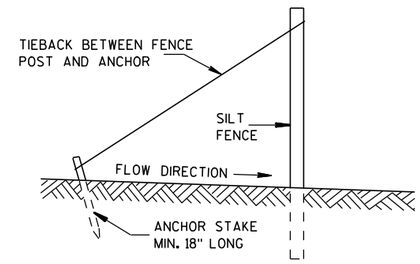


TWIST METHOD



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

6

S.D.D. 8 E 9-6

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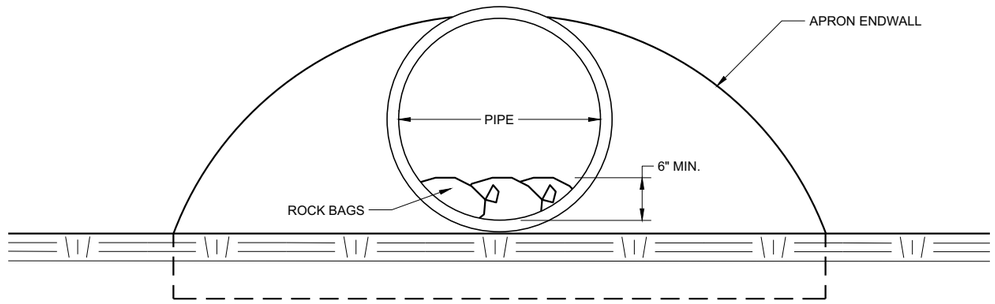
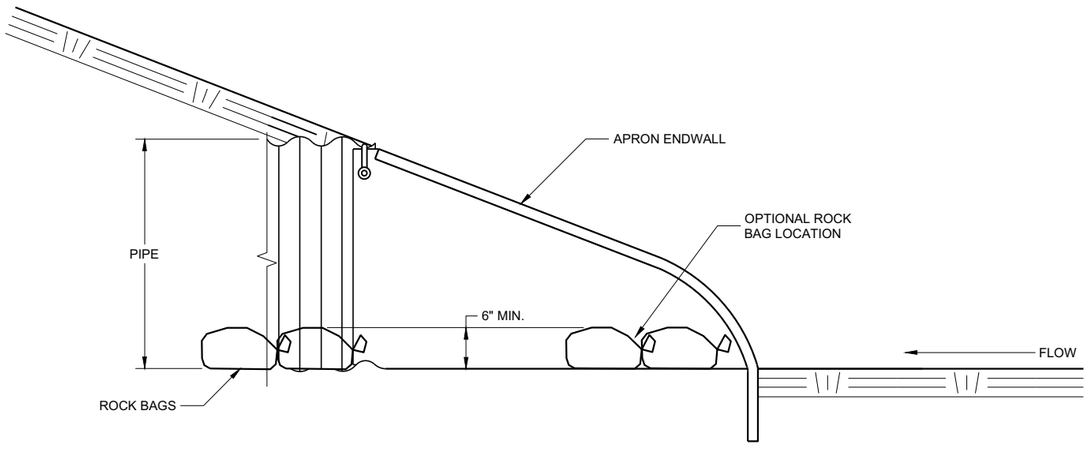
S.D.D. 8 E 9-6



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

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

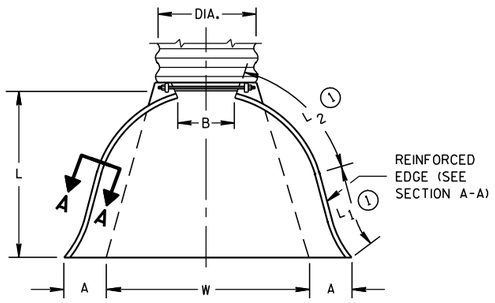
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

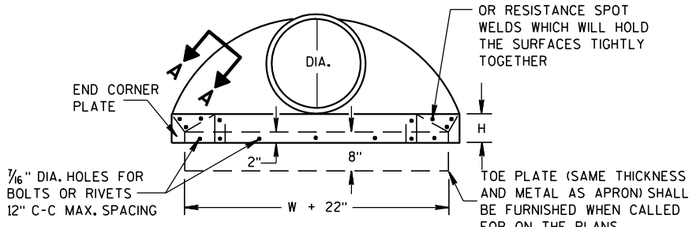
REINFORCED CONCRETE APRON ENDWALLS

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

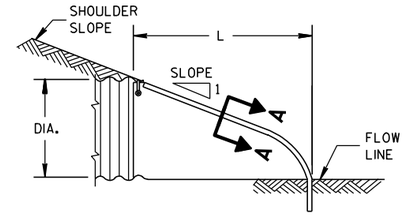
*MINIMUM
**MAXIMUM



PLAN VIEW

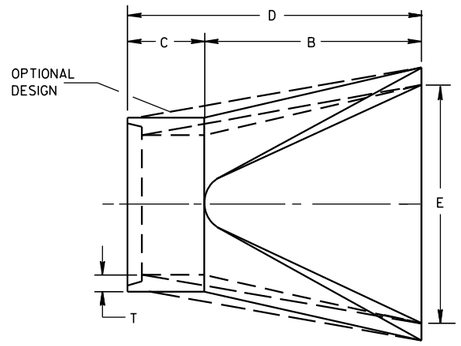


END VIEW

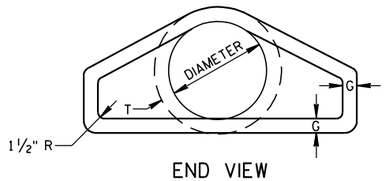


SIDE ELEVATION

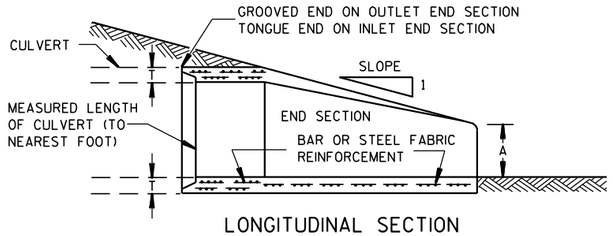
METAL ENDWALLS



PLAN

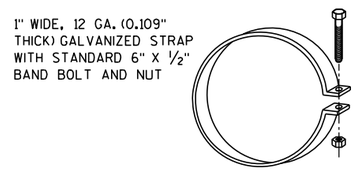


END VIEW



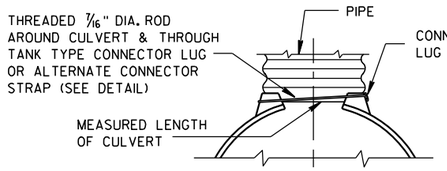
LONGITUDINAL SECTION

CONCRETE ENDWALLS

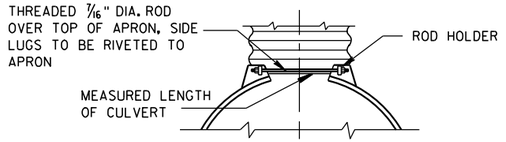


ALTERNATE FOR TYPE 1 CONNECTION

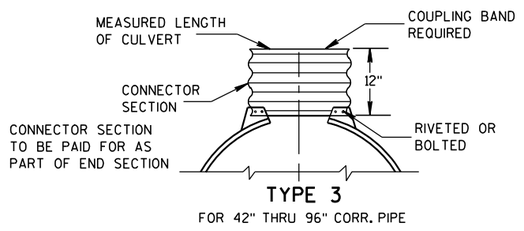
END SECTION CONNECTOR STRAP



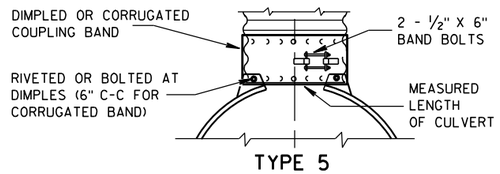
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

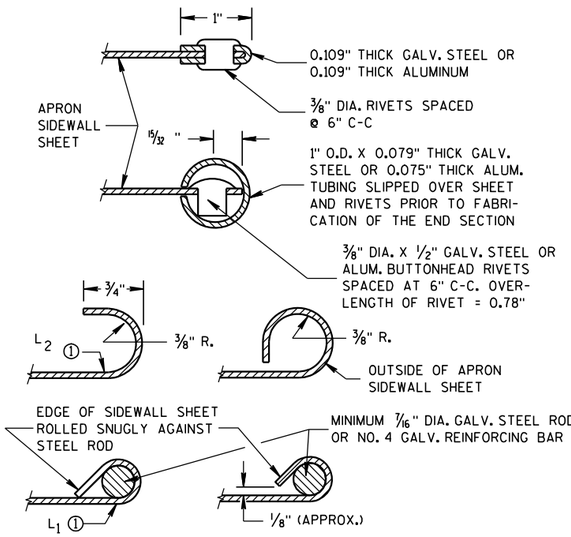
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

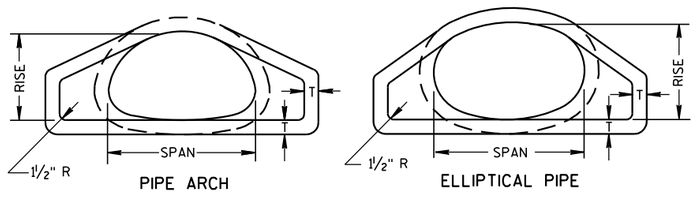
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

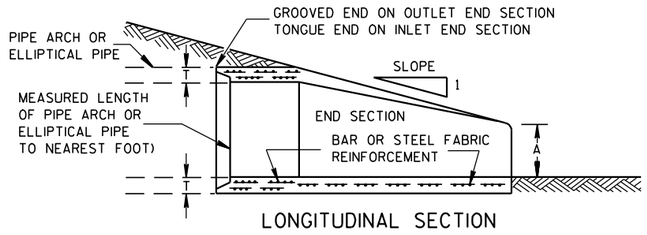
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

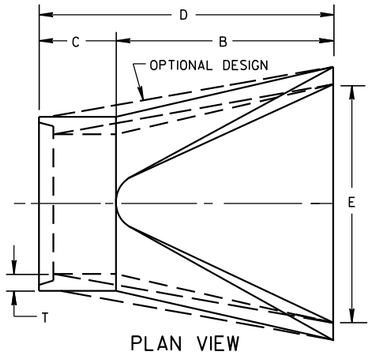
S.D.D. 8 F 1-11



END VIEW

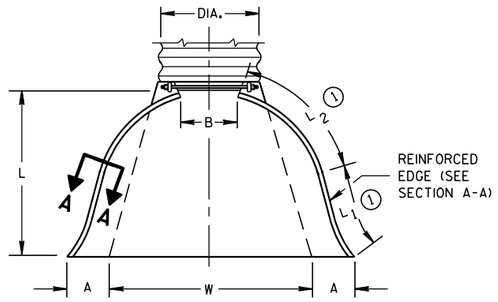


LONGITUDINAL SECTION

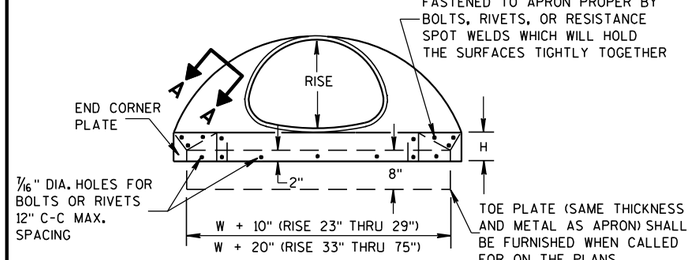


PLAN VIEW

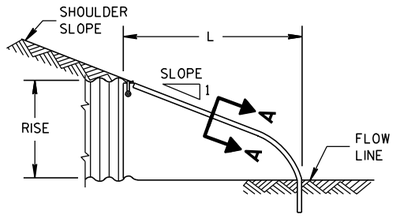
CONCRETE ENDWALLS



PLAN VIEW

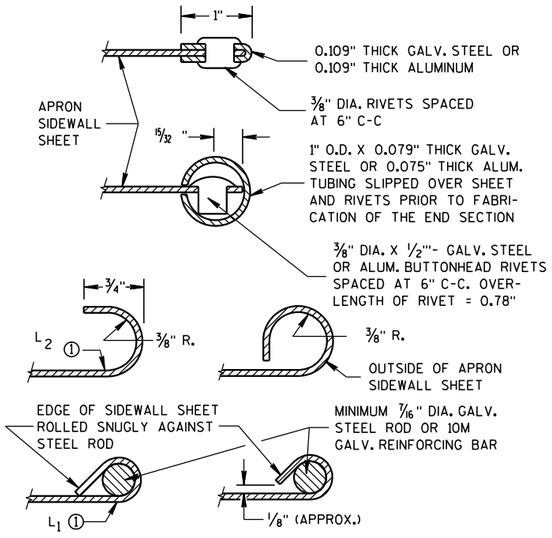


END VIEW



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

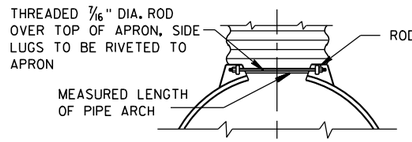
REINFORCED CONCRETE PIPE ARCH

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

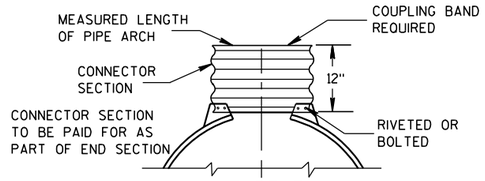
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



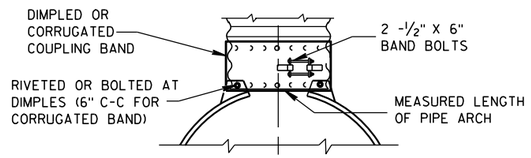
TYPE 2

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

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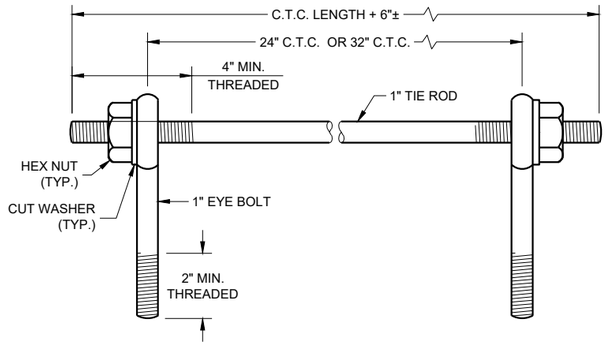
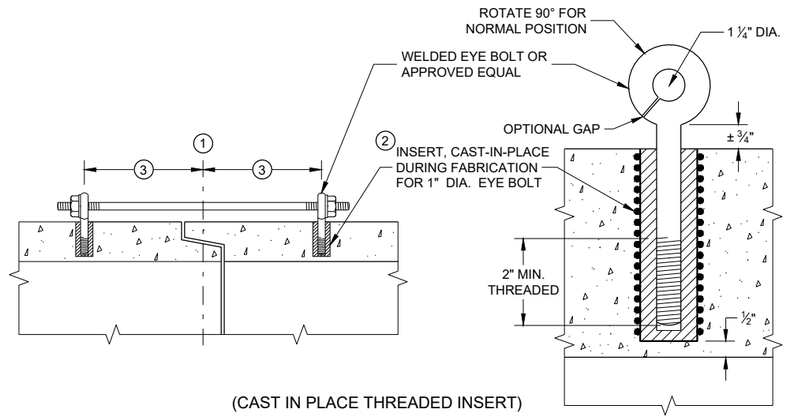
S.D.D. 8 F 2-1



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.

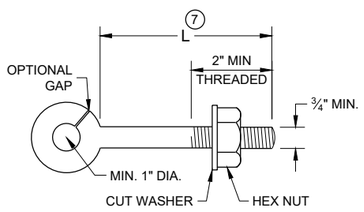
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

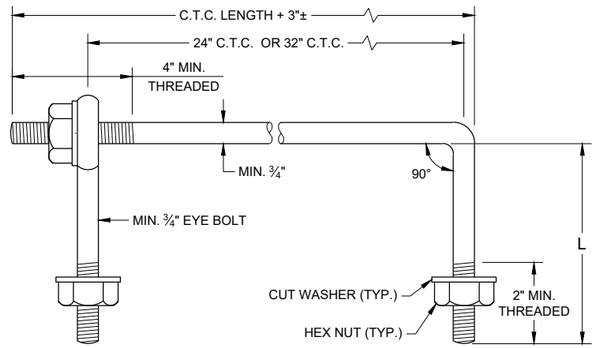
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

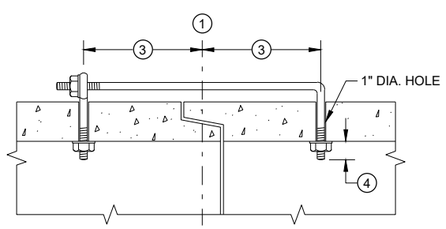


EYE BOLT (7)

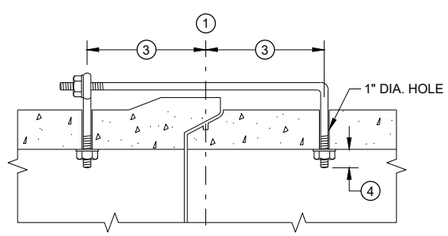
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

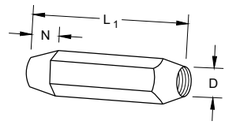
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

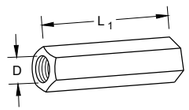
ADJUSTABLE TIE ROD TABLE

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



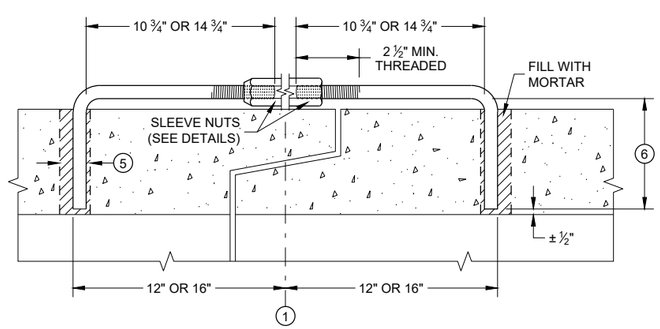
TAPERED



PLAIN

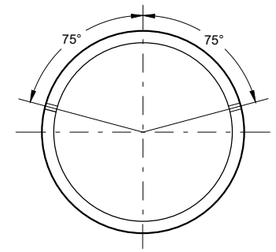
RIGHT AND LEFT THREADS

SLEEVE NUTS



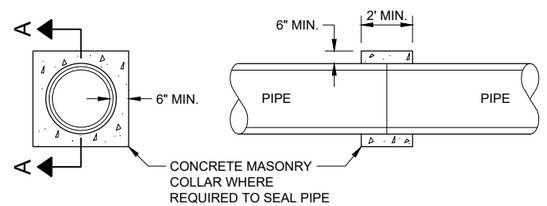
LONGITUDINAL SECTION

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
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APPROVED
November 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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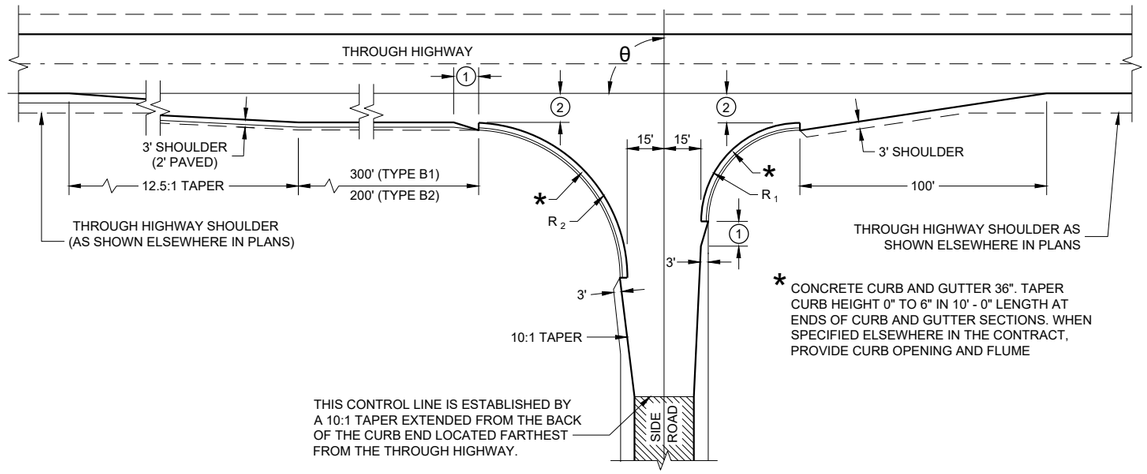


* CONCRETE CURB AND GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10' - 0" LENGTH AT ENDS OF CURB AND GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME

TYPE "B1" AND "B2"

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65 - 70	35	70
71 - 80	40	70
81 - 90	40	60
91 - 100	50	55
101 - 110	60	45

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

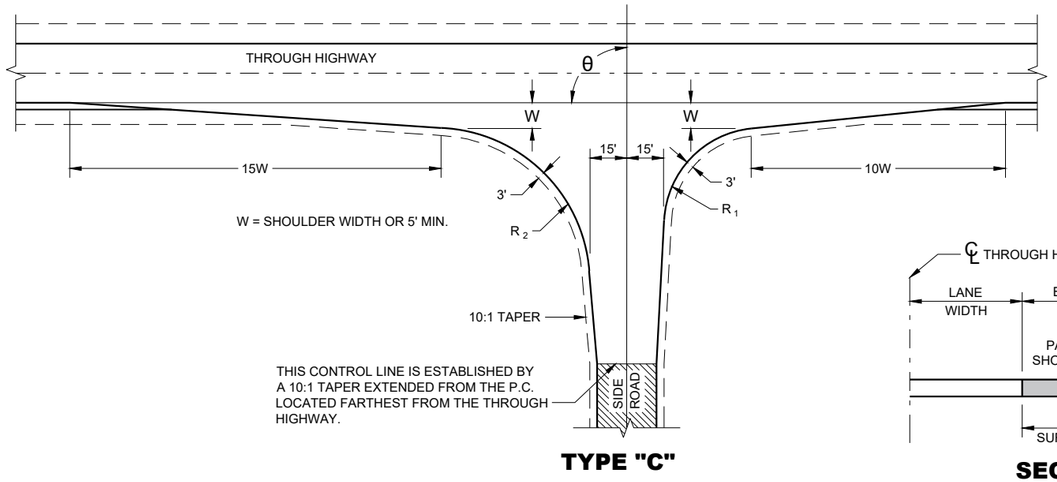
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

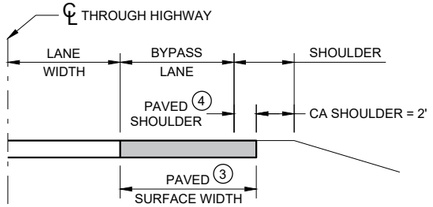
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
- ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH
- PC CONCRETE = 13-FT PLUS PAVED SHOULDER WIDTH

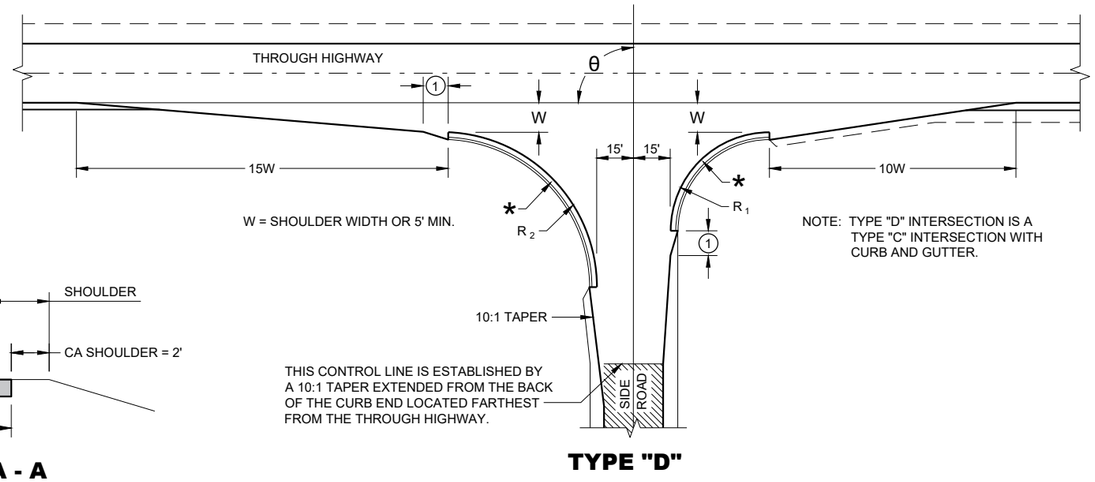
(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



TYPE "C"

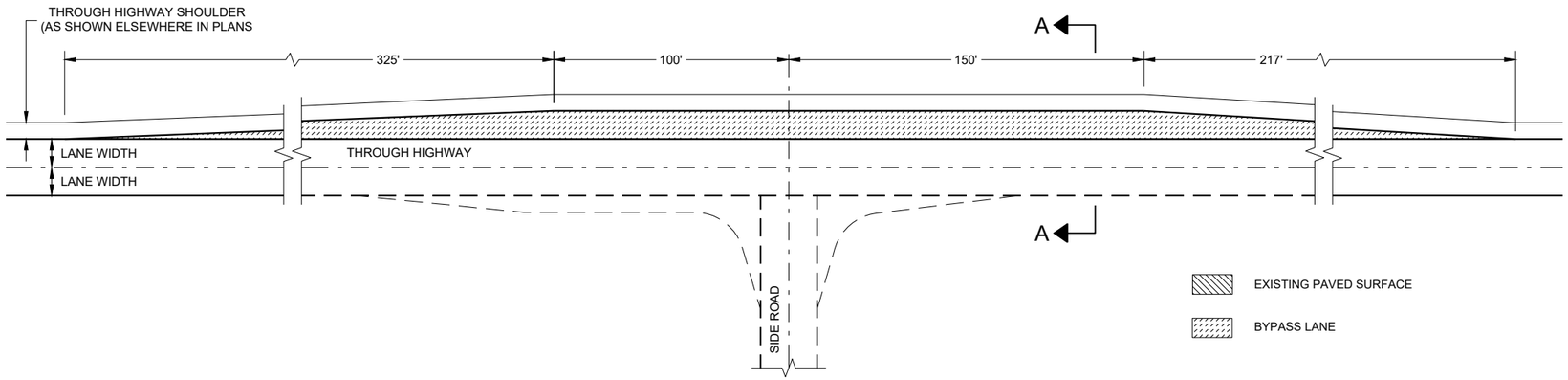


SECTION A - A
(SHOWING BYPASS LANE AND SHOULDER)



NOTE: TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB AND GUTTER.

TYPE "D"



TEE INTERSECTION BYPASS LANE DETAIL

AT GRADE SIDE ROAD INTERSECTION TYPES "B1", "B2", "C", "D" AND TEE INTERSECTION BYPASS LANE

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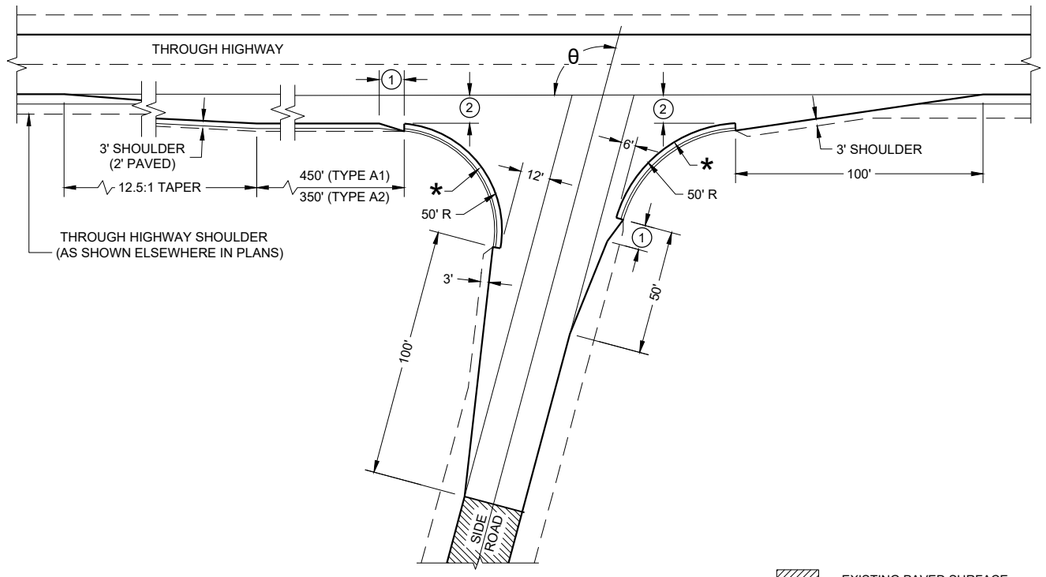
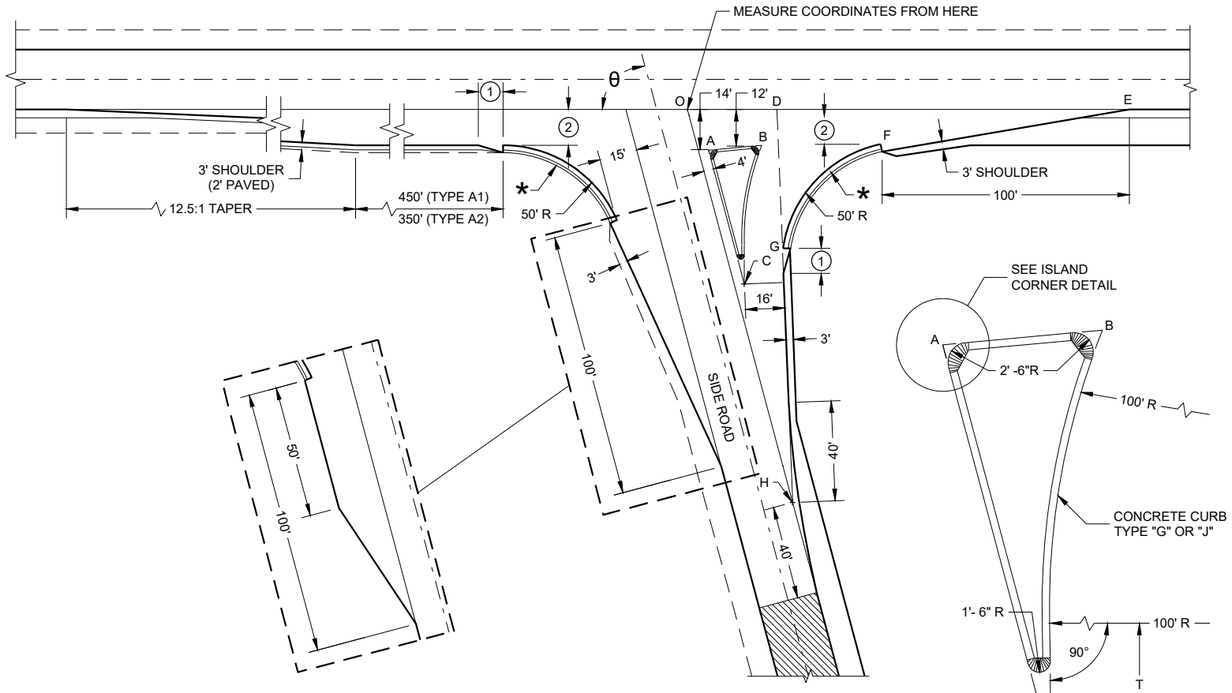
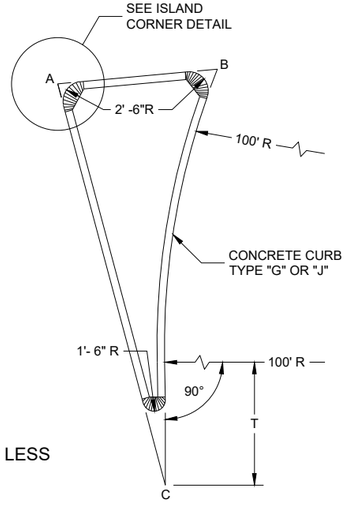


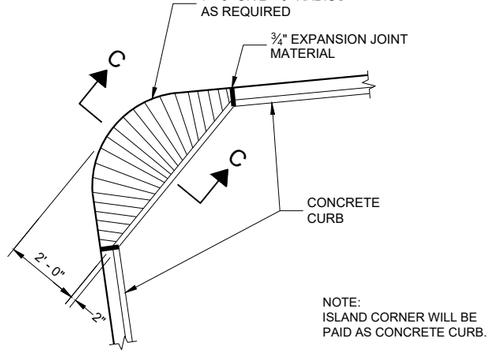
θ = MORE THAN 80°



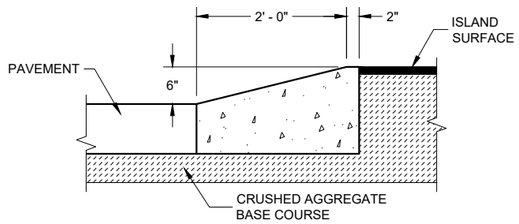
SIDE ROAD WIDENING AND TAPER REQUIRED WHERE
THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS



θ = ACUTE ANGLES 80° OR LESS



PLAN VIEW



SECTION C - C

ISLAND CORNER DETAIL

(TO BE CONSTUCTED AT ALL ISLAND CORNERS)

TABLE OF DIMENSIONS FOR VARIABLE SIDE ROAD INTERSECTION ANGLES

(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT 'O') X / Y								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7 / -14.0	44.9 / -12.0	46.4 / -72.4	41.9 / 0.0	205.0 / 0.0	104.6 / -12.0	64.0 / -75.5	85.0 / -147.1	32.3	67.4	4.9	85.9	169.9
65	10.9 / -14.0	39.0 / -12.0	37.8 / -71.6	39.4 / 0.0	196.1 / 0.0	95.7 / -12.0	54.1 / -71.5	70.5 / -151.3	28.2	63.6	8.5	80.9	166.9
70	9.4 / -14.0	33.9 / -12.0	29.8 / -70.1	37.4 / 0.0	188.3 / 0.0	87.8 / -12.0	45.6 / -67.5	56.1 / -154.2	24.6	59.7	11.5	76.1	164.1
75	7.9 / -14.0	29.3 / -12.0	22.3 / -67.9	35.7 / 0.0	181.2 / 0.0	80.7 / -12.0	38.2 / -63.4	41.8 / -155.9	21.5	55.8	13.8	71.4	161.4
80	6.5 / -14.0	25.4 / -12.0	15.6 / -65.2	34.4 / 0.0	174.8 / 0.0	74.4 / -12.0	31.8 / -59.3	27.6 / -156.5	18.9	52.0	15.6	66.9	158.9

TYPE 'A1" AND "A2" SIDE ROAD INTERSECTION DETAILS

AT GRADE SIDE ROAD INTERSECTIONS
TYPES "A1" AND "A2"

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DEPARTMENT OF TRANSPORTATION

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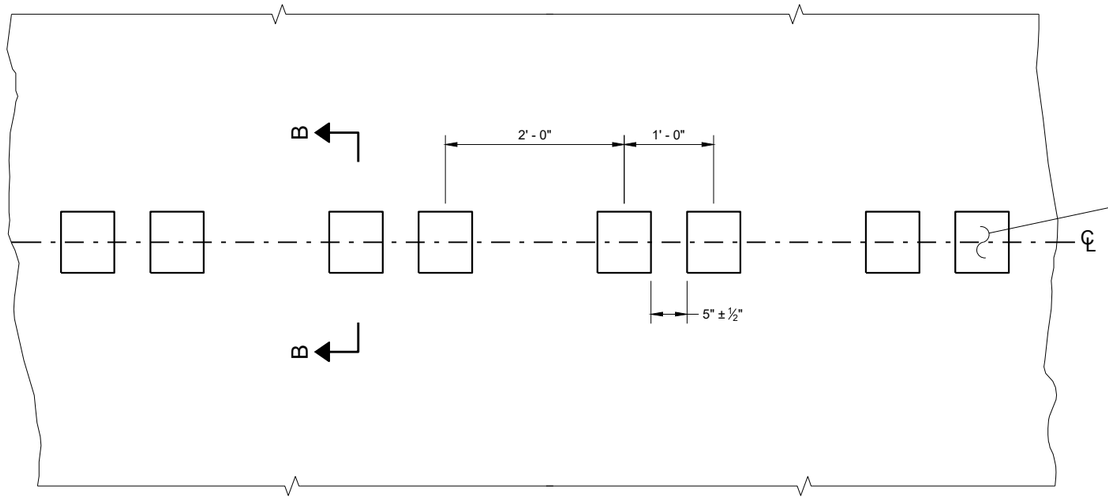
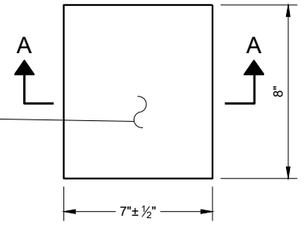
GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A11 SHEETS "d" AND "e".

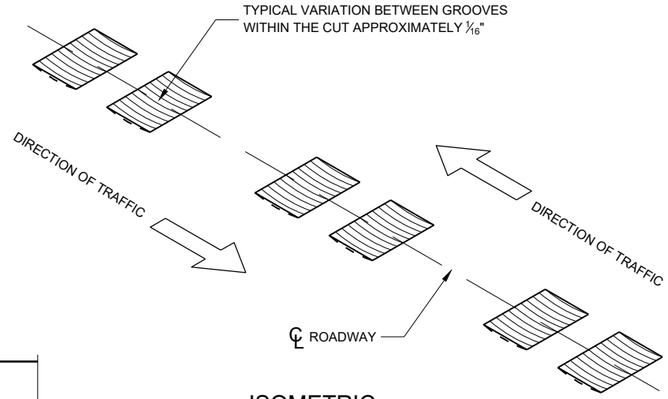
CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



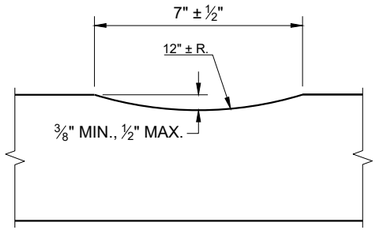
PLAN DETAIL VIEW



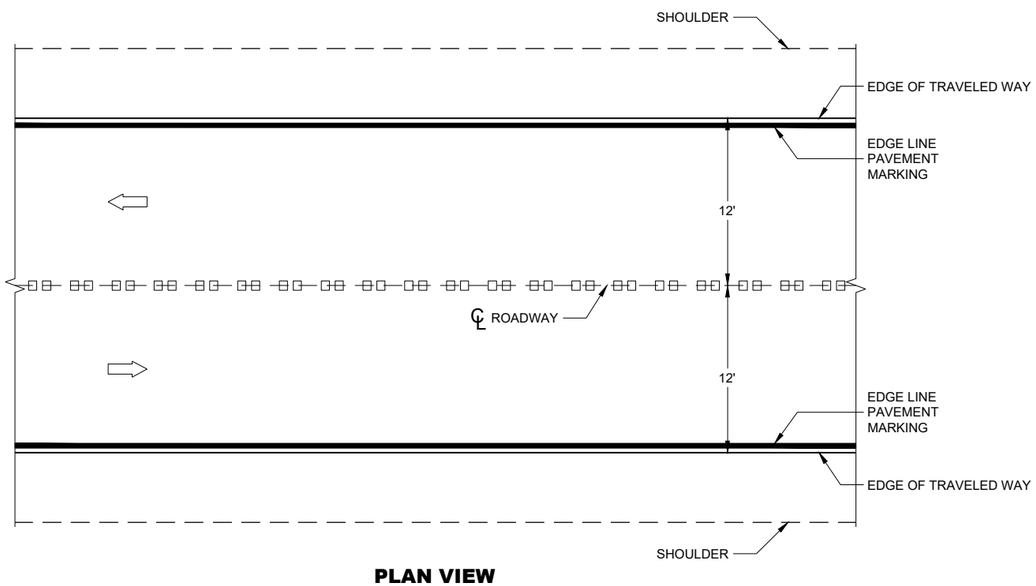
PLAN VIEW
(SINGLE GROOVE)



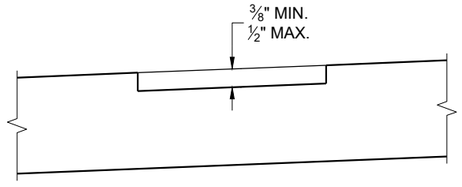
ISOMETRIC



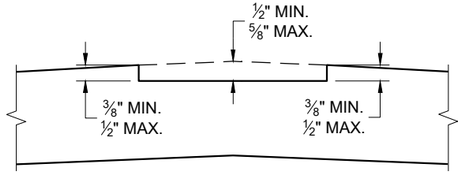
SECTION A - A



PLAN VIEW



SECTION B - B
SUPERELEVATED ROADWAY



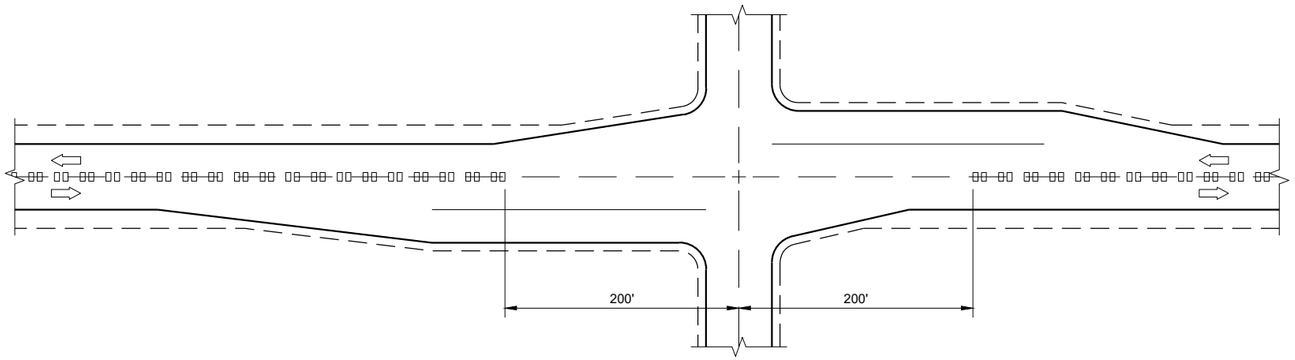
SECTION B - B
CROWNED ROADWAY

CENTERLINE RUMBLE STRIPS - ASPHALT

6

CENTERLINE RUMBLE STRIPS - ASPHALT

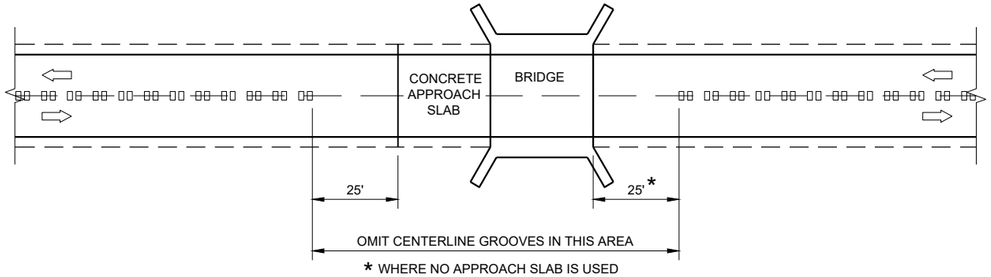
SDD13A11 - 04a



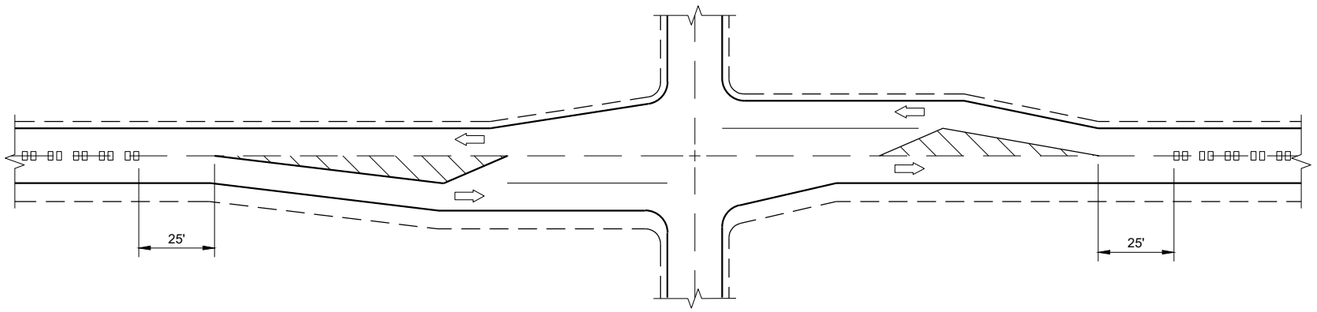
CENTERLINE GROOVES AT INTERSECTIONS

GENERAL NOTES

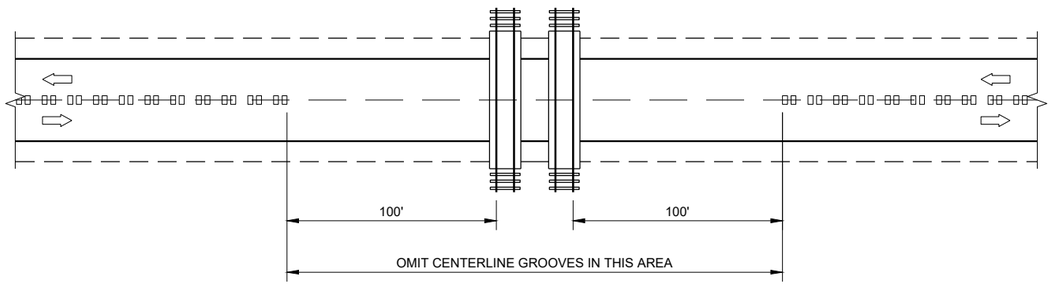
1. CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



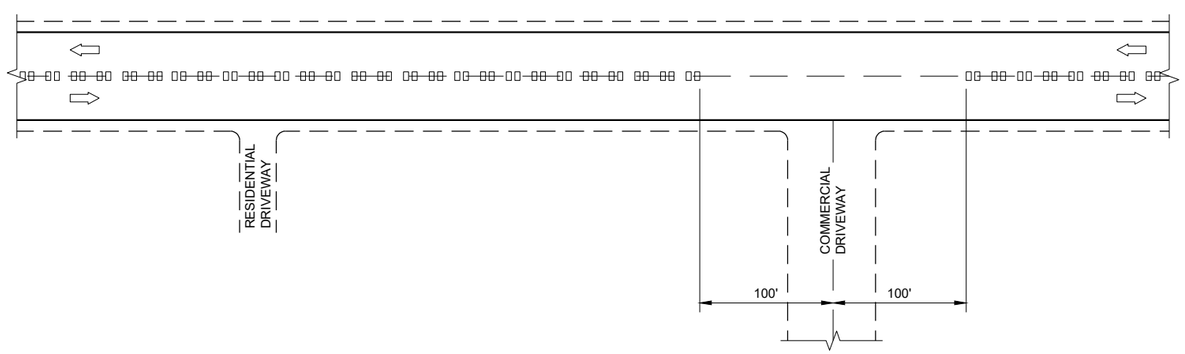
CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



CENTERLINE GROOVES AT RAILROADS



CENTERLINE GROOVES AT DRIVEWAYS (1)

CENTER LINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAIL ROADS

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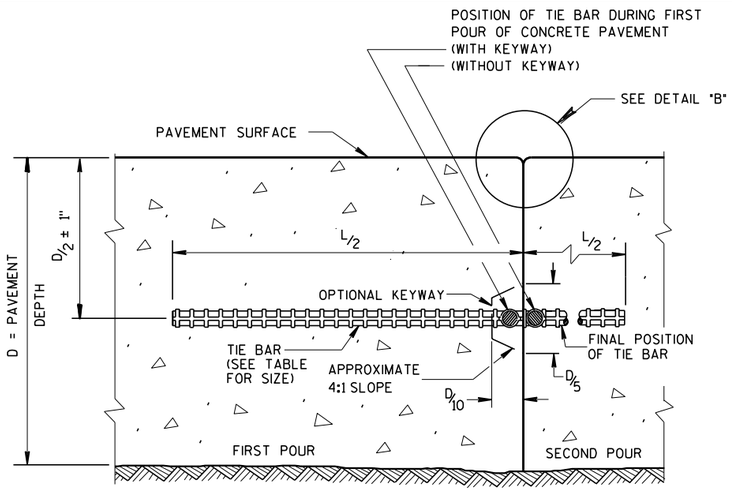
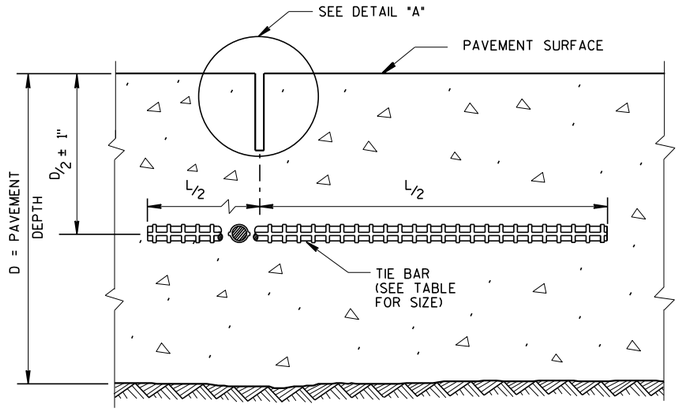


CONSTRUCTION JOINT



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
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APPROVED
March 2018
DATE
/S/ Peter Kemp PE
PAVEMENT SUPE
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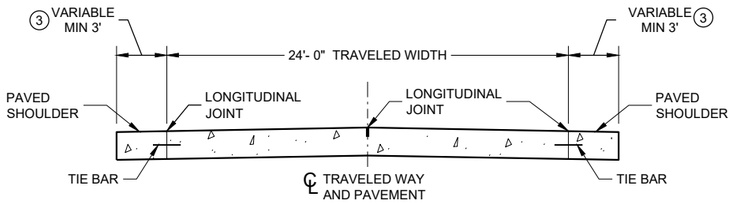
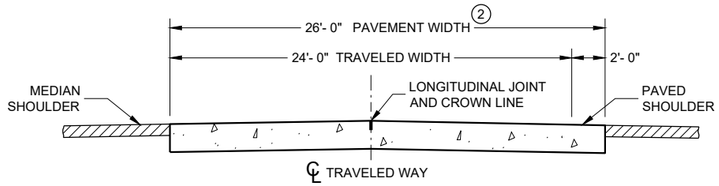
S.D.D. 13 C 1-19

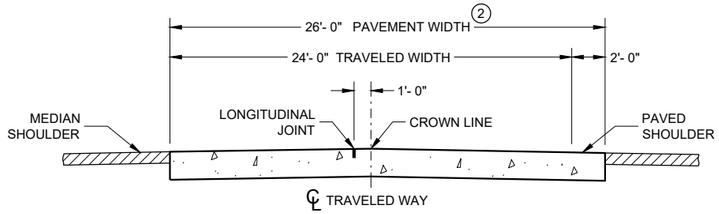


SECTION A - A

TWO-LANE TWO-WAY HIGHWAY (1)



SECTION B - B



ALTERNATIVE SECTION B - B

DIVIDED HIGHWAY (1)

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 FROM 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 THE CONTRACTION JOINTS.

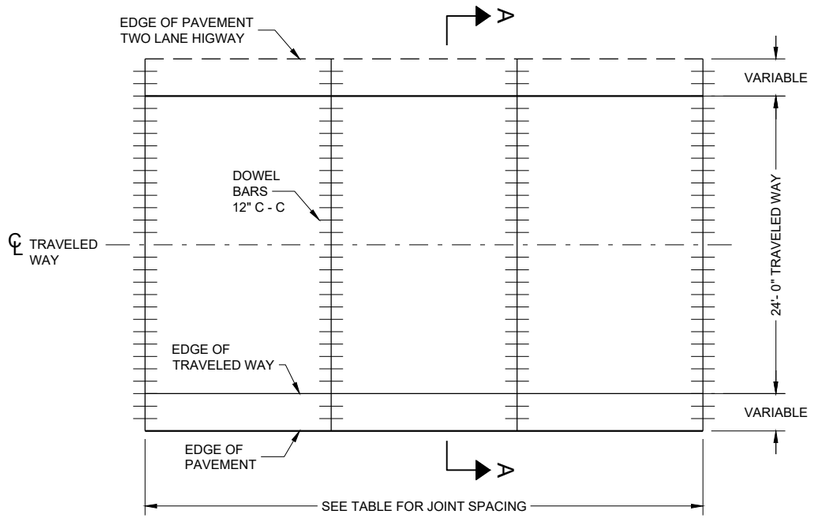
(1) REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

(2) MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED "PAVED SHOULDER" AS CONCRETE PAVEMENT.

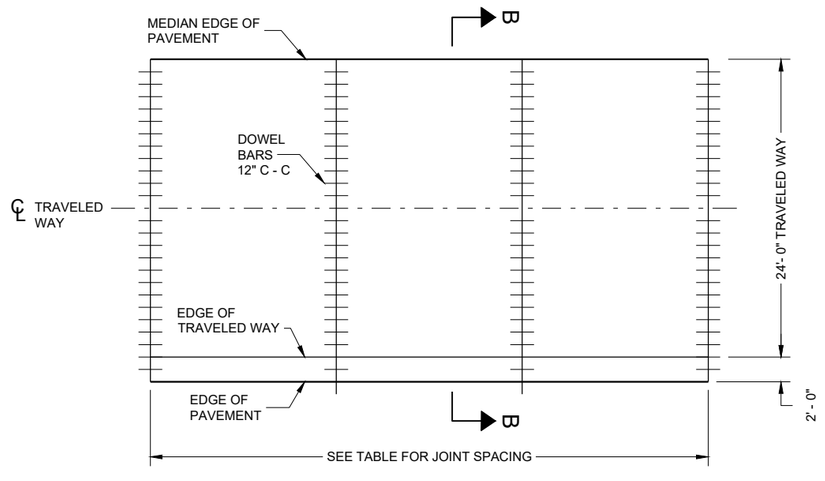
(3) SHOULDER WIDTHS LESS THAN 3 FEET SHALL BE PAVED INTEGRAL TO THE MAINLINE CONCRETE PAVEMENT, SEE SECTION B-B.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8" & ABOVE	1 ¼"	15'



CONTRACTION JOINT LAYOUT FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINT LAYOUT FOR DIVIDED HIGHWAY

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
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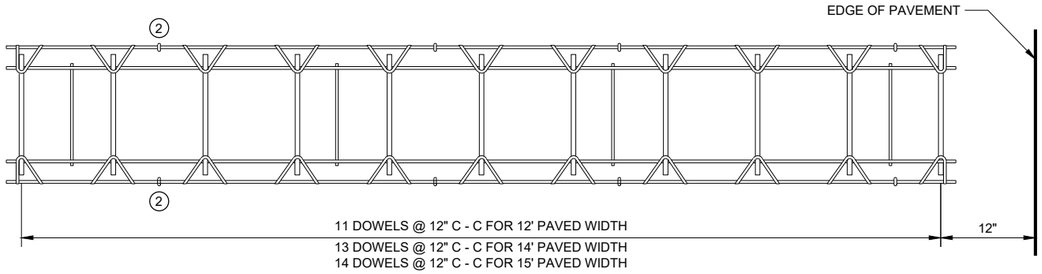
SDD13C11 - 14a



PLAN VIEW

SIDE VIEW

(NORMAL TO CENTERLINE)

CONTRACTION JOINT DOWEL ASSEMBLY (1)

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 CONSTRUCTION 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.

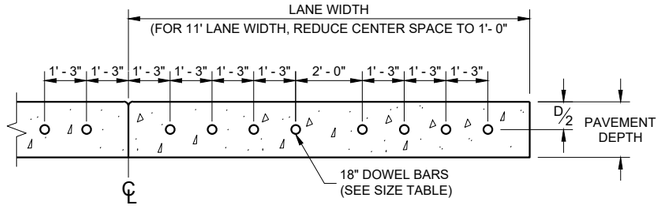
(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

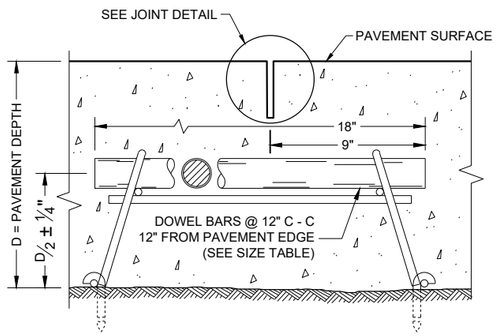
(5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.

(6) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

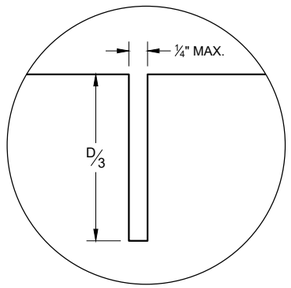
(7) ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



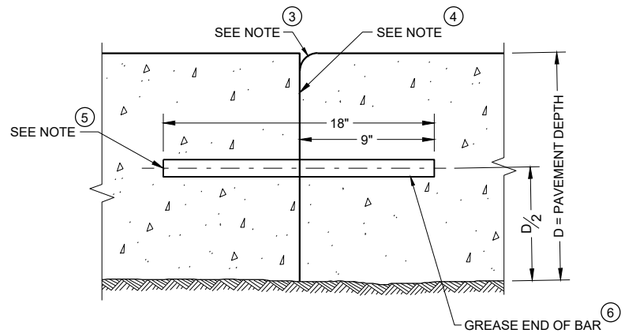
DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



DOWELED CONTRACTION JOINT



JOINT DETAIL



TRANSVERSE CONSTRUCTION JOINT

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

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SDD 13C11 - 14b

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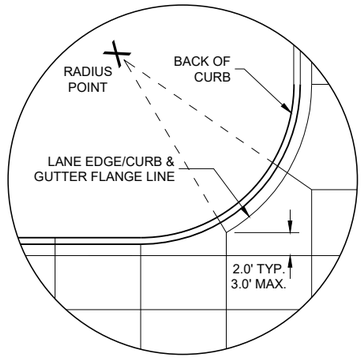
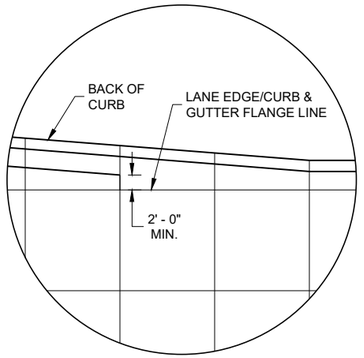
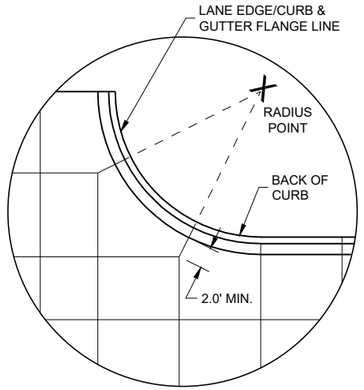
SDD 13C11 - 14b



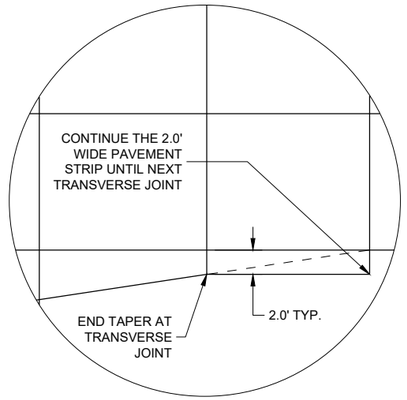
DETAIL "A"



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.

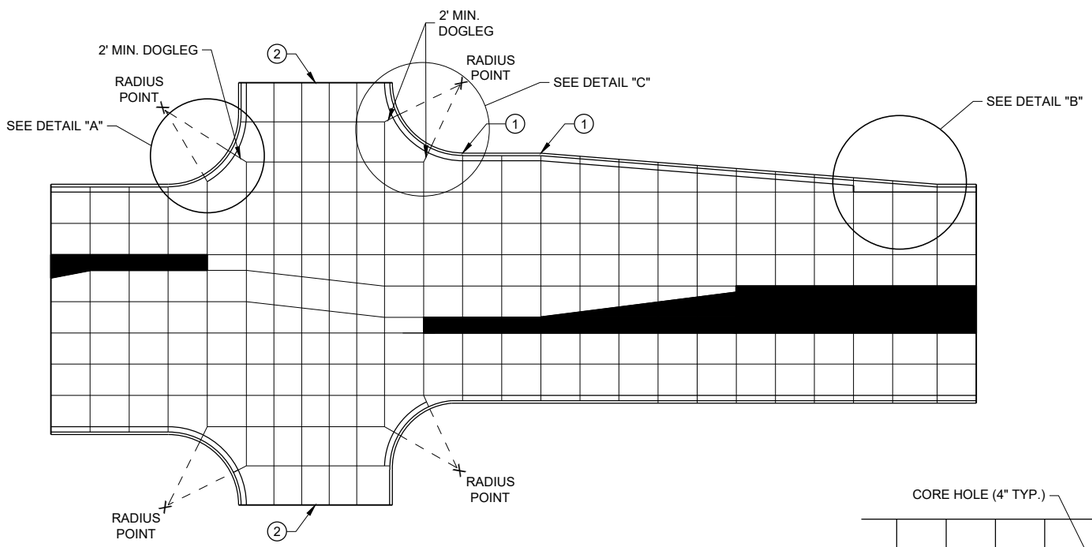
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

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.

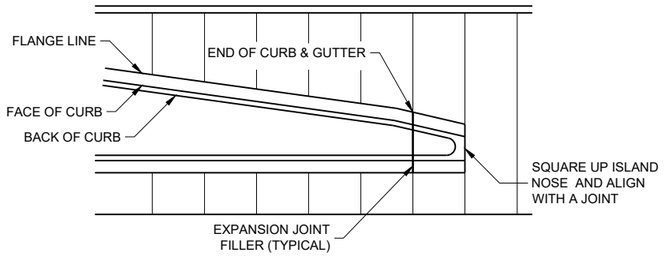
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



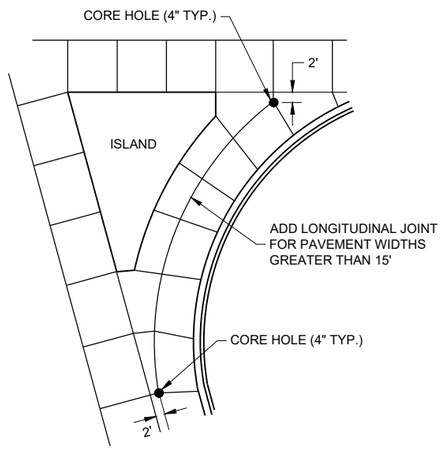
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

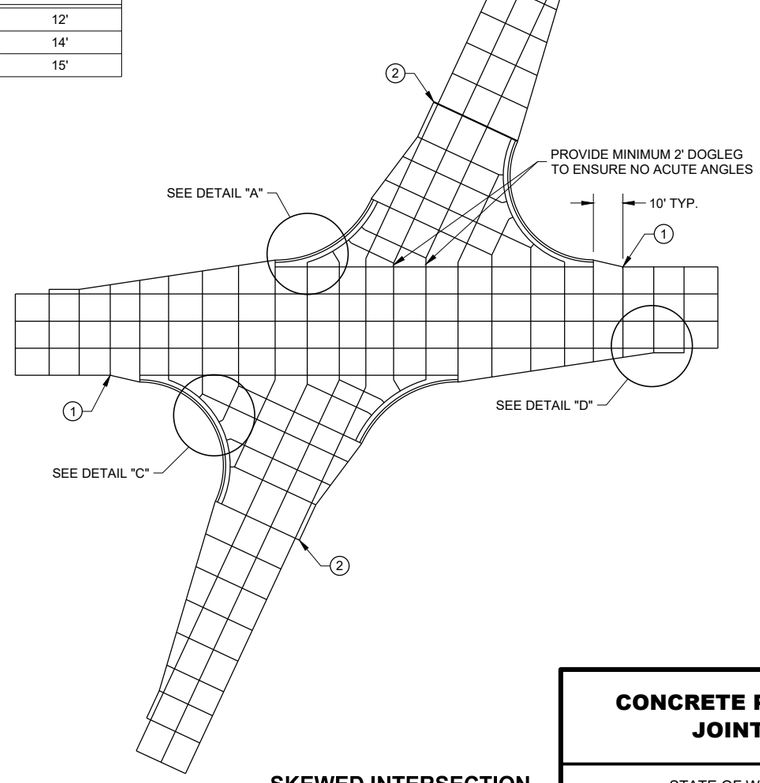
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



APPROACH TO MEDIAN



LARGE RIGHT TURN



SKEWED INTERSECTION

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 08a

6

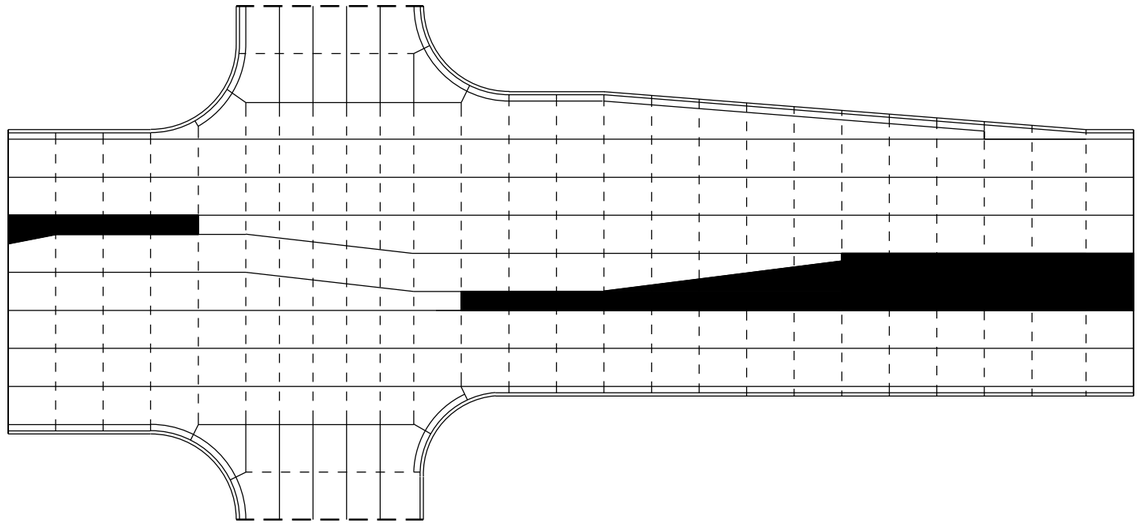
SDD 13C18 - 08a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

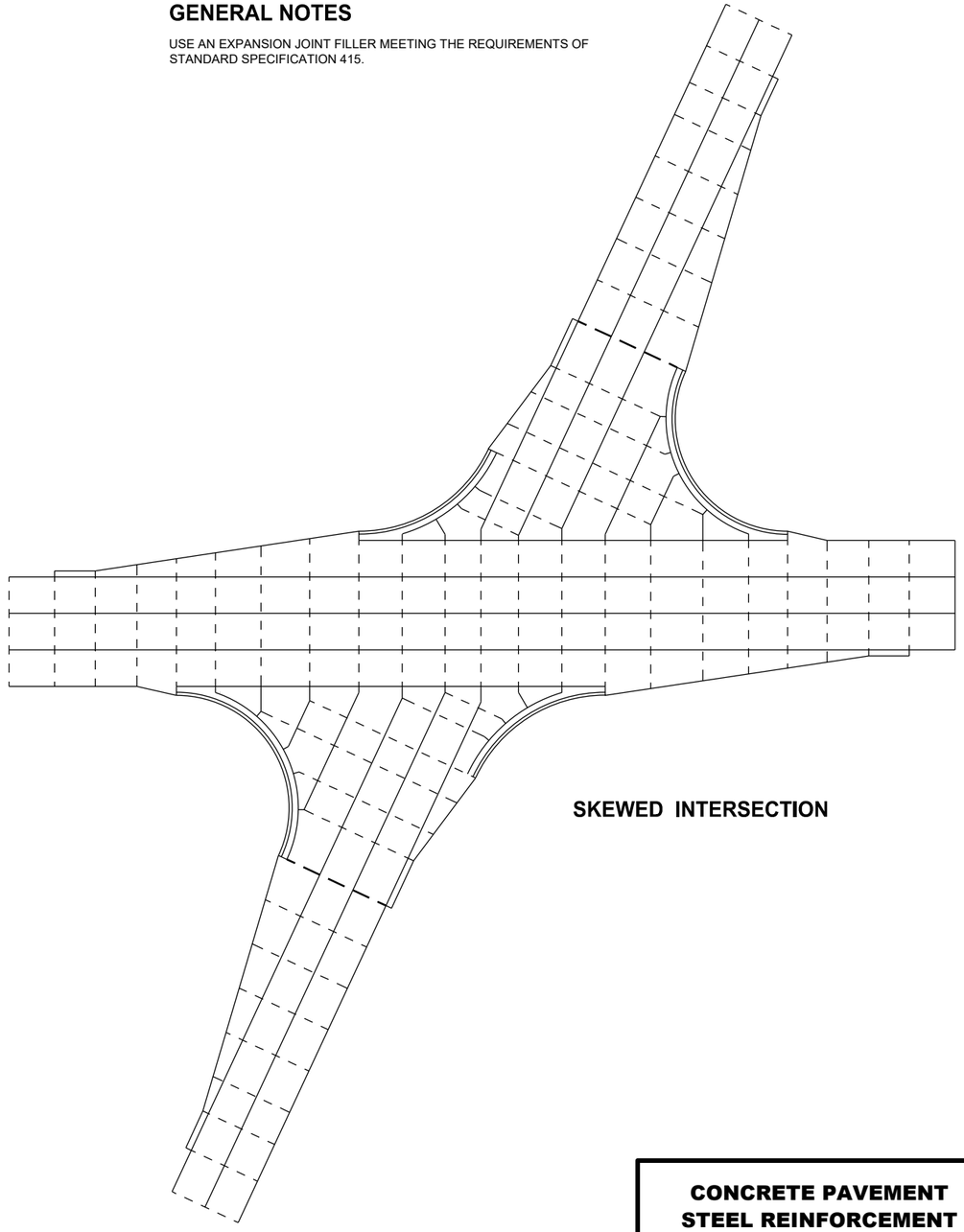
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

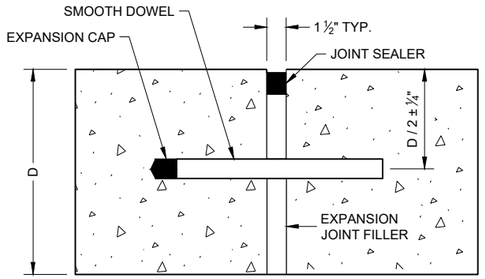
SDD 13C18 - 08b

CONCRETE PAVEMENT STEEL REINFORCEMENT

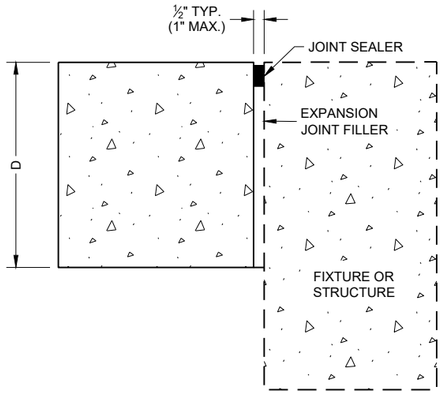
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 08b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

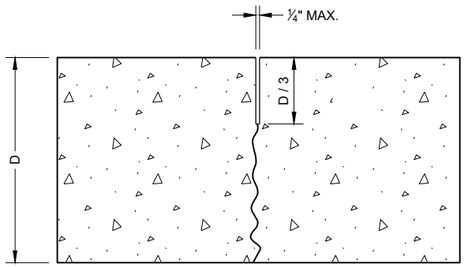
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

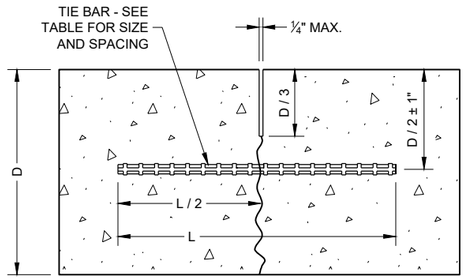
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

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.



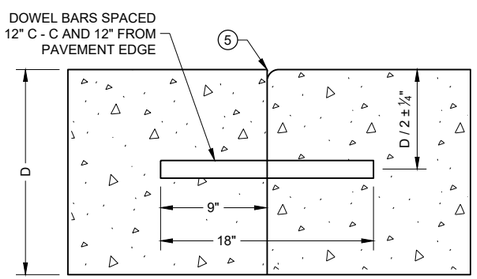
UNDOWELED TRANSVERSE



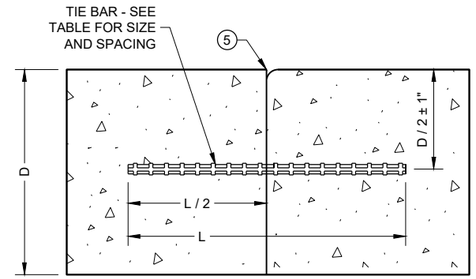
TIED LONGITUDINAL

DOWELED TRANSVERSE

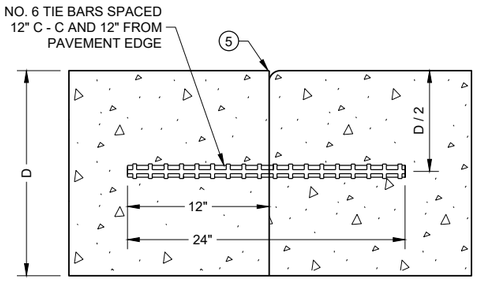
CONTRACTION JOINTS (2)



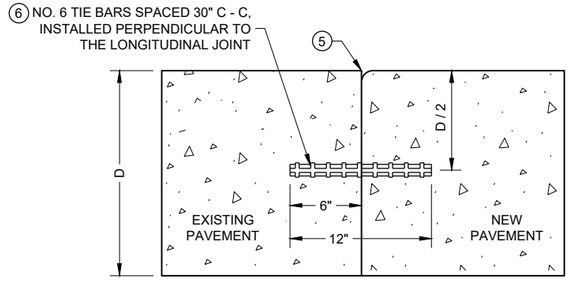
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



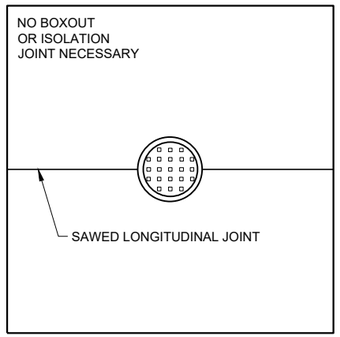
TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

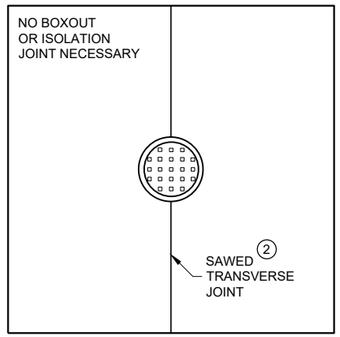
CONCRETE PAVEMENT JOINT TYPES

SDD 13C18 - 08c

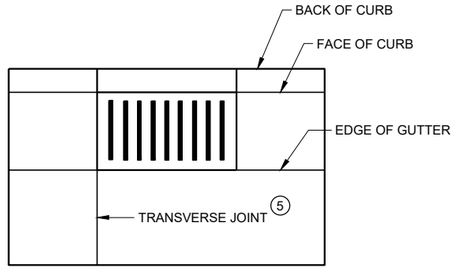
6



MANHOLE WITH LONGITUDINAL JOINT



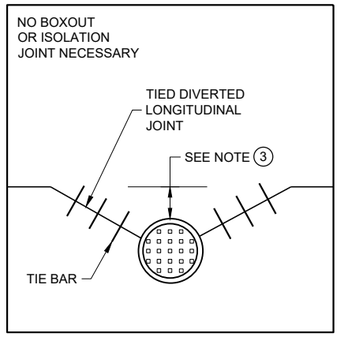
MANHOLE WITH TRANSVERSE JOINT



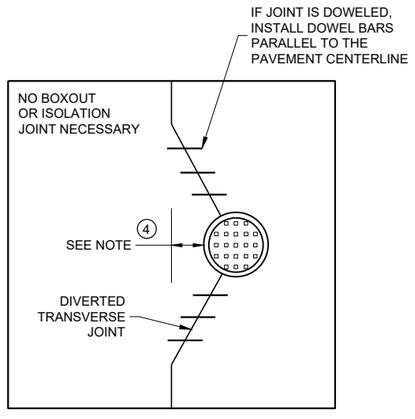
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

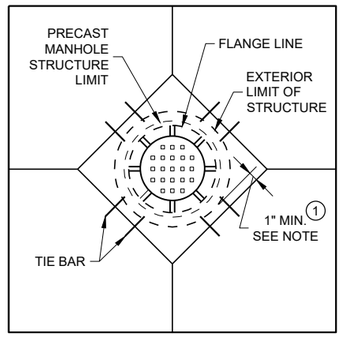
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF 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
May 2023
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

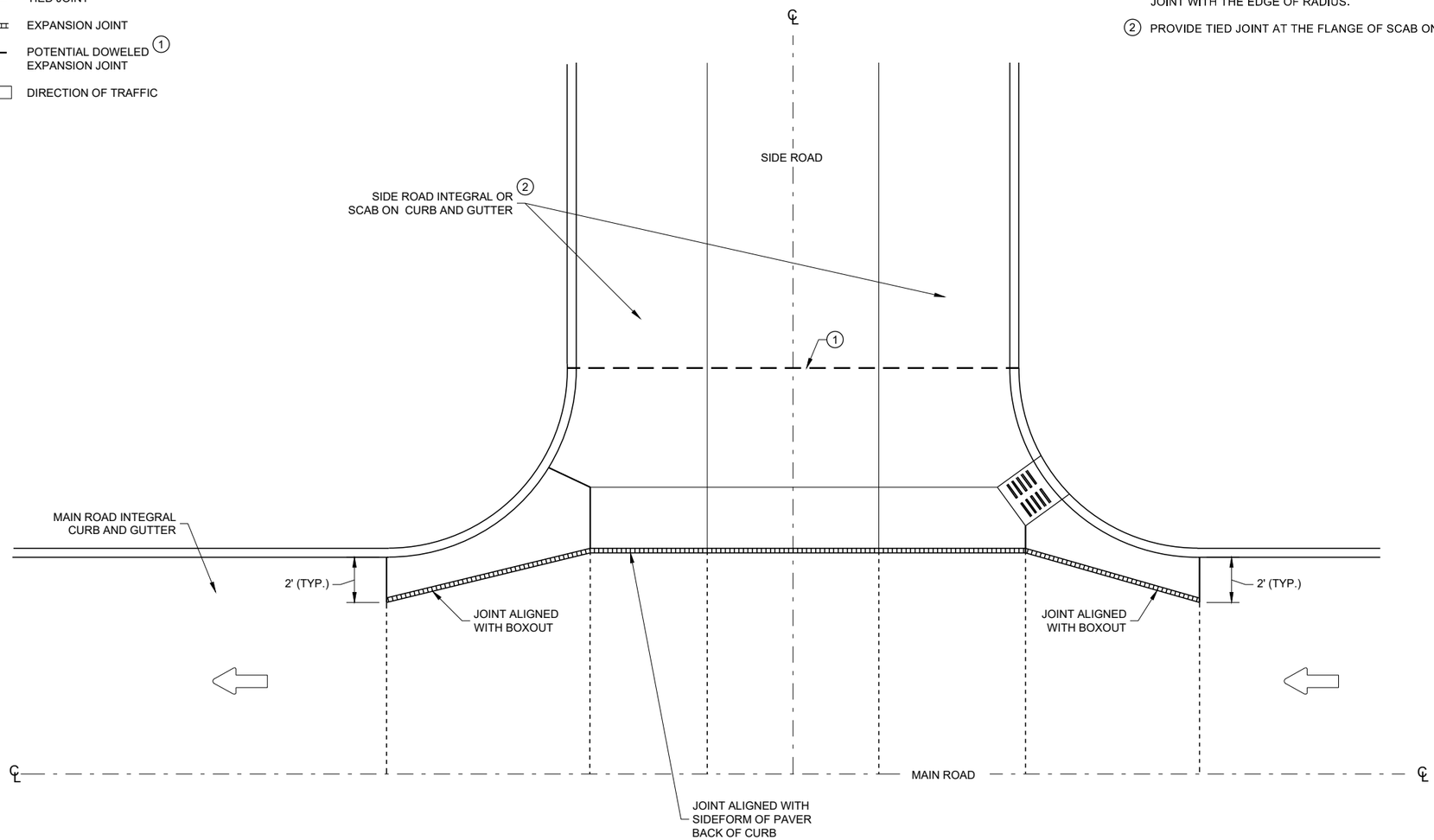
6

SDD13C18 - 08d

SDD13C18 - 08d

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

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

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SDD 13C18 - 08f

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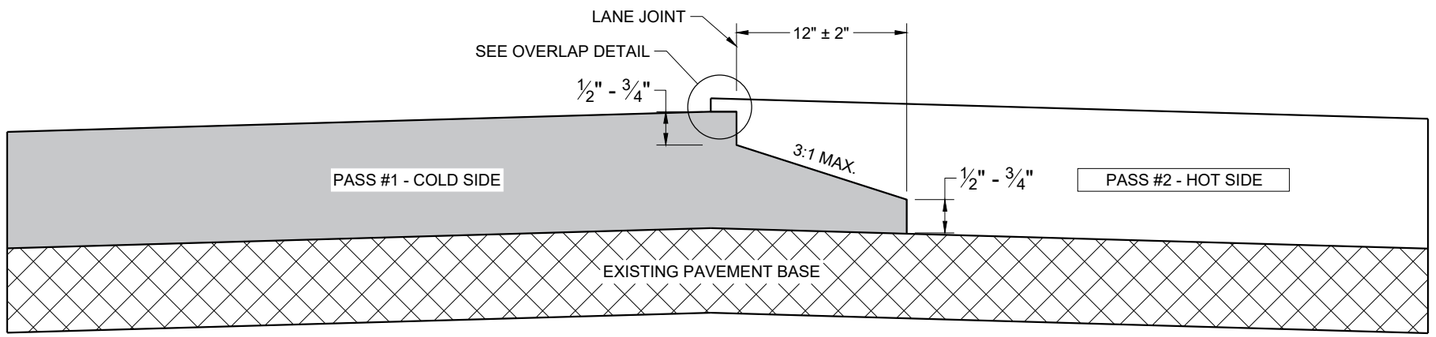
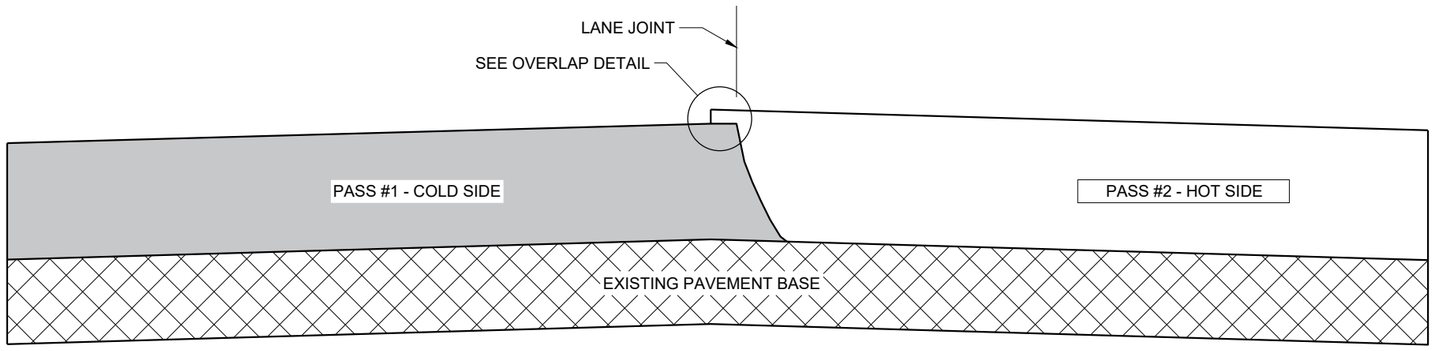
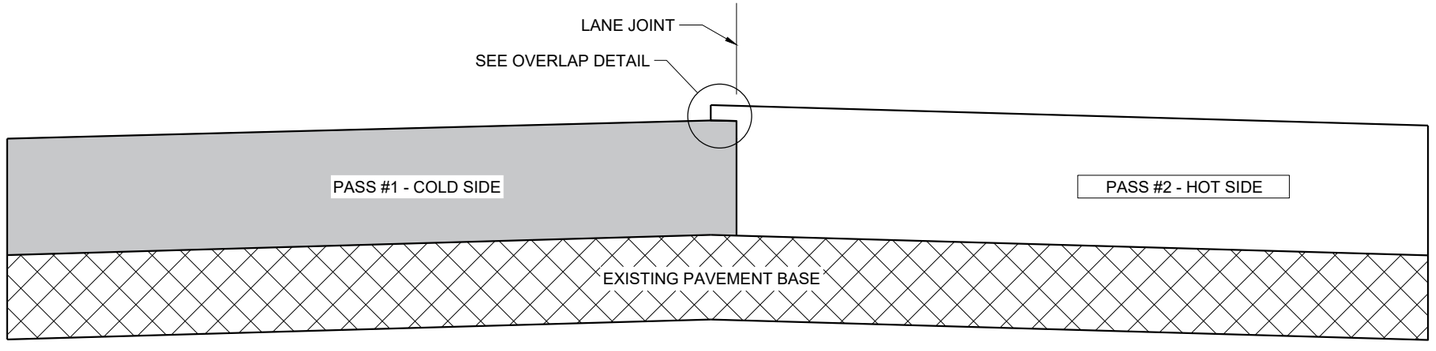
SDD 13C18 - 08f



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

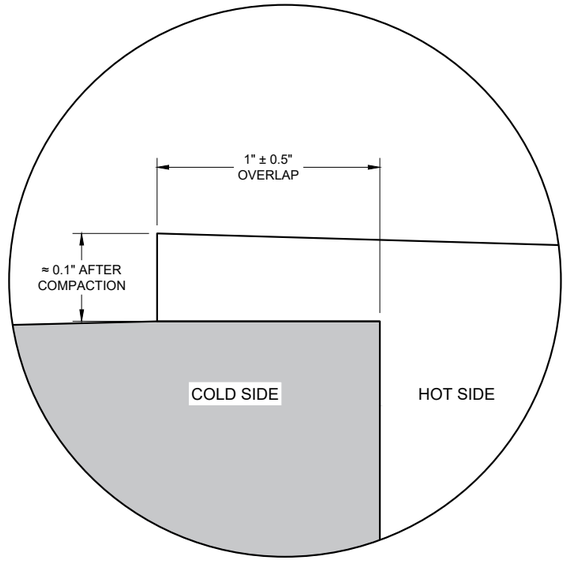
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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

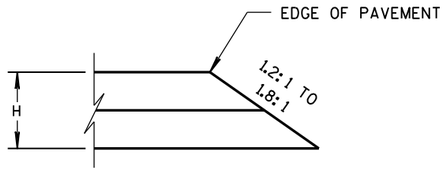
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

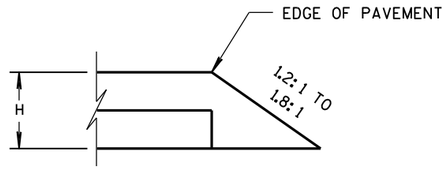
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



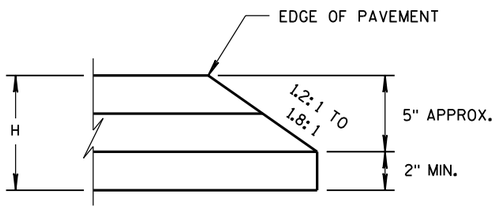
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



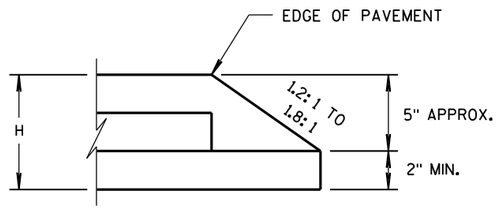
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

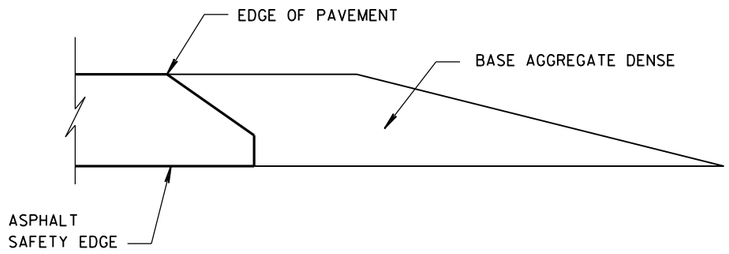
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

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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

(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.

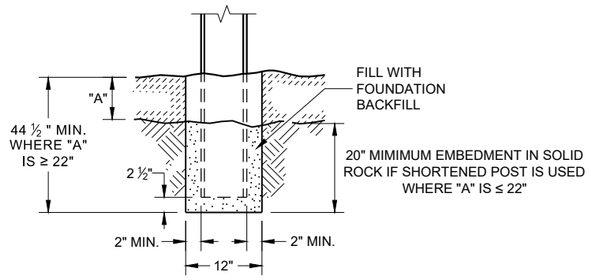
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL 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).

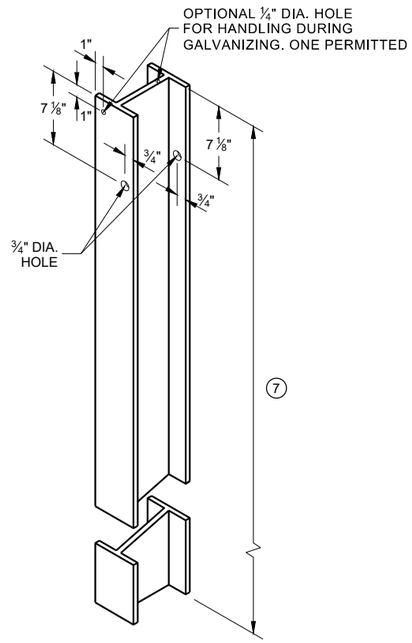
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(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.

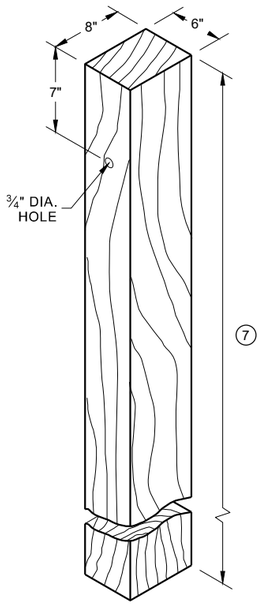
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



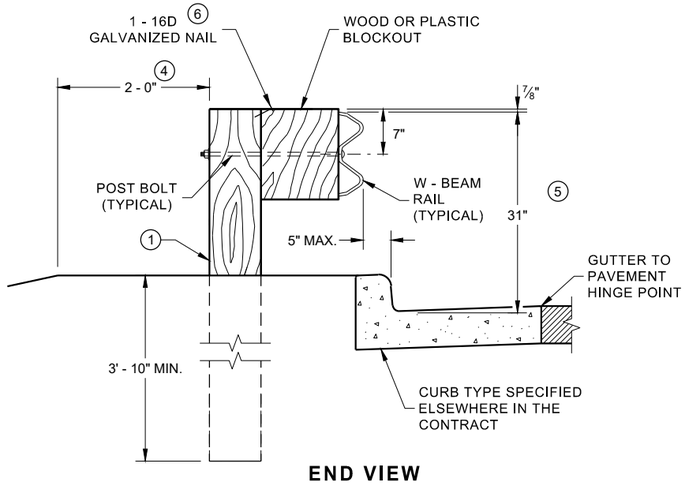
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



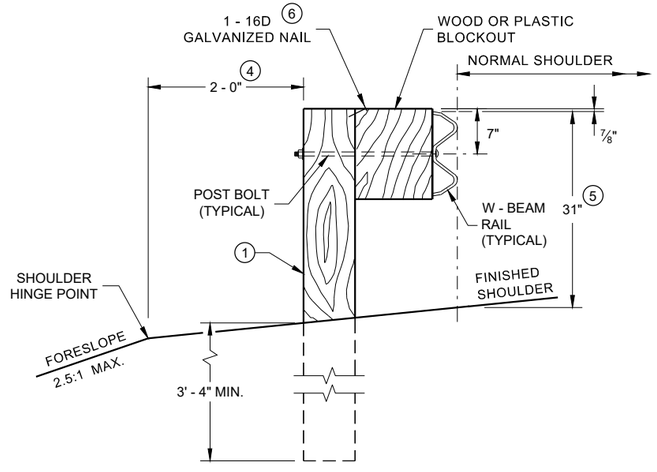
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



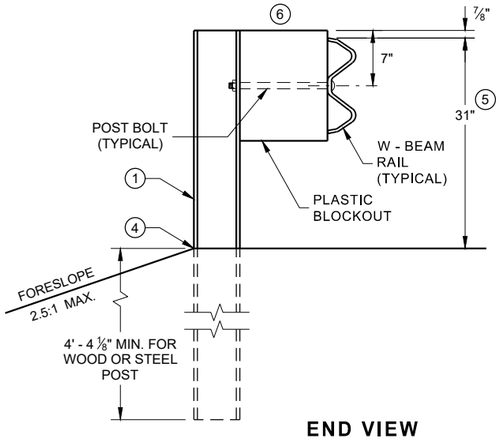
WOOD POST (6" X 8") NOMINAL (1)



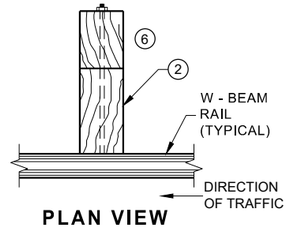
END VIEW
LOCATED ALONG A CURBED ROADWAY



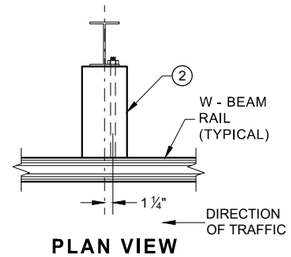
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



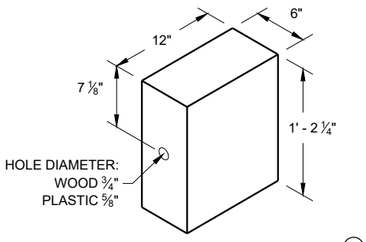
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



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

6

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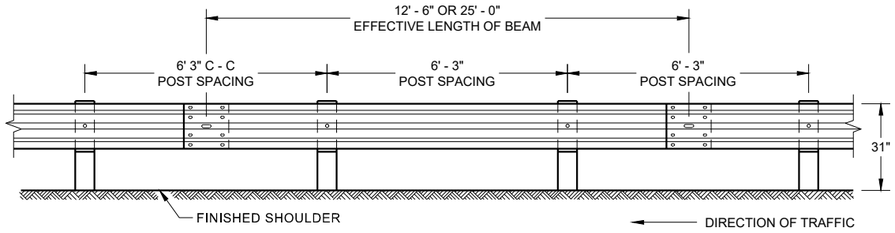
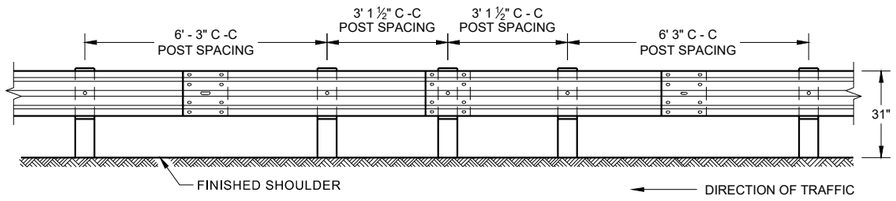
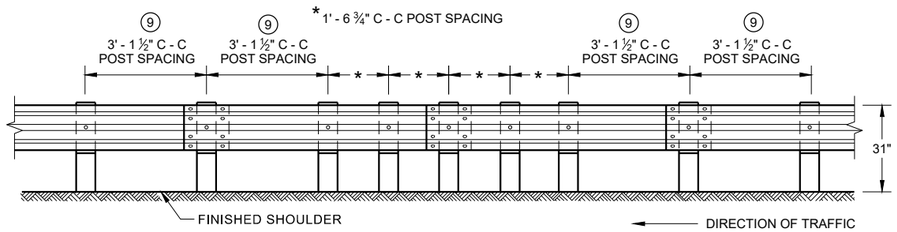


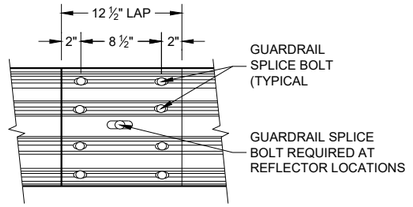
FRONT VIEW
POST SPACING STANDARD INSTALLATION



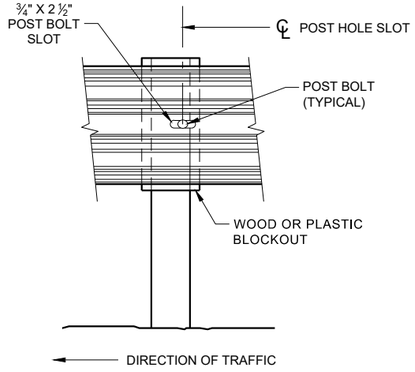
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



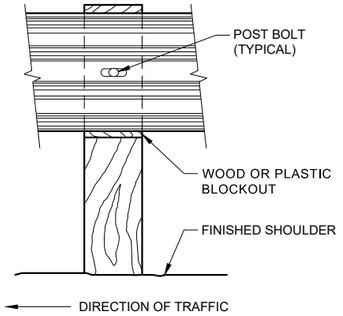
FRONT VIEW
QUARTER POST SPACING (QS)



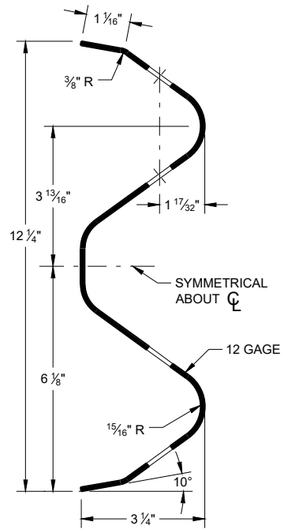
FRONT VIEW
MID-SPAN BEAM SPLICE



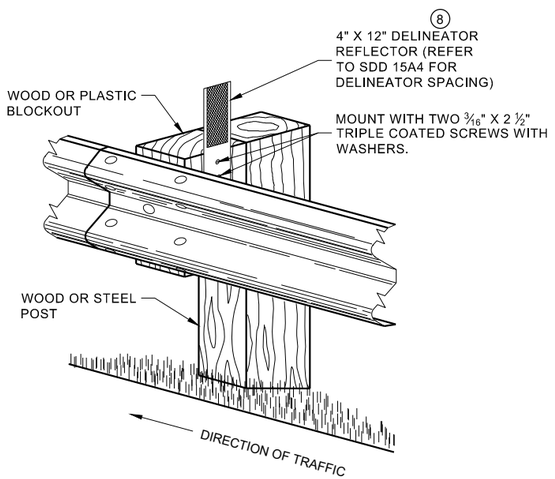
FRONT VIEW AT STEEL POST



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.

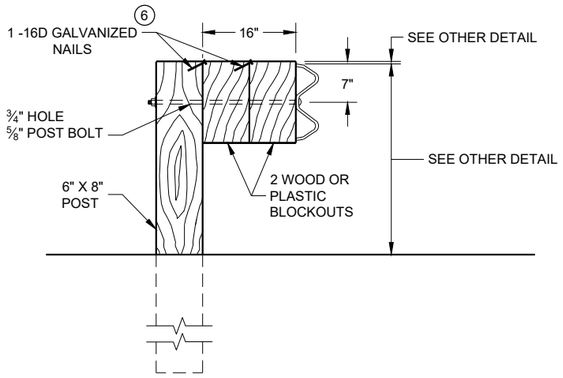
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B42 - 07b

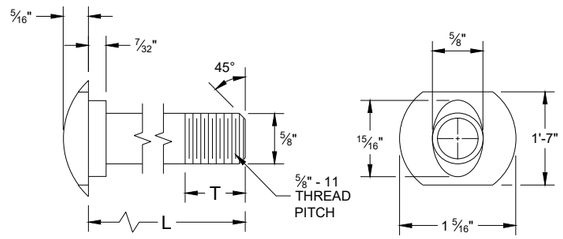


DETAIL FOR 16" BLOCKOUT DEPTH

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.

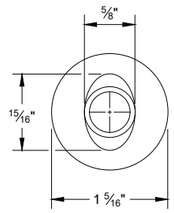
NOTE:

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.

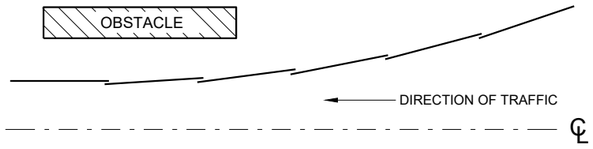


POST BOLT TABLE

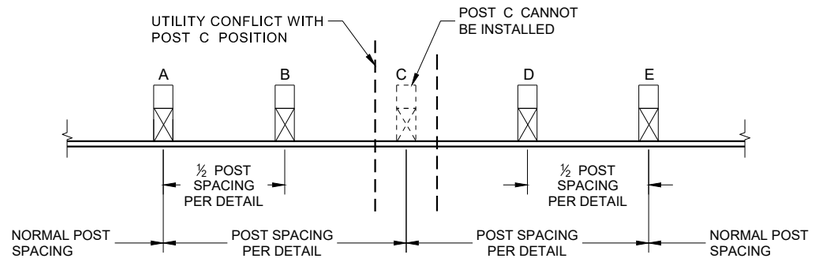
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



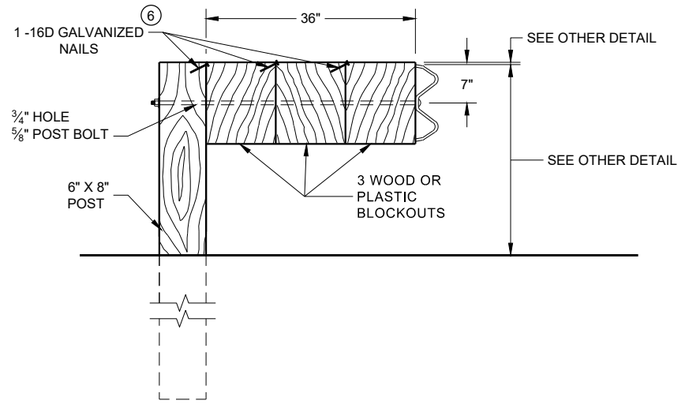
ALTERNATE BOLT HEAD



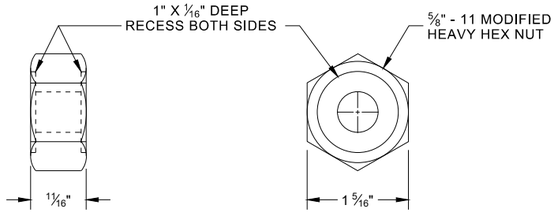
PLAN VIEW
BEAM LAPPING DETAIL



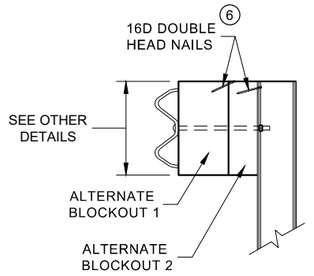
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



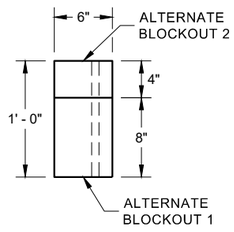
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

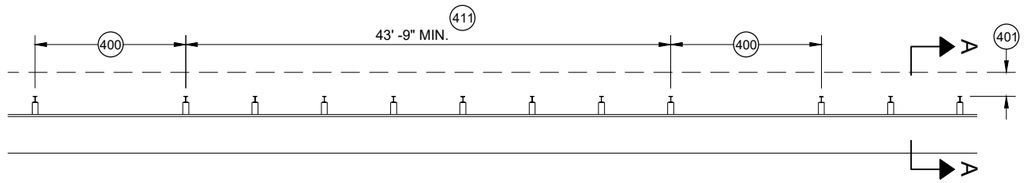
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

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.

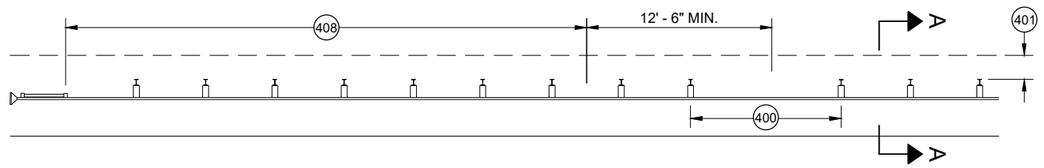
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

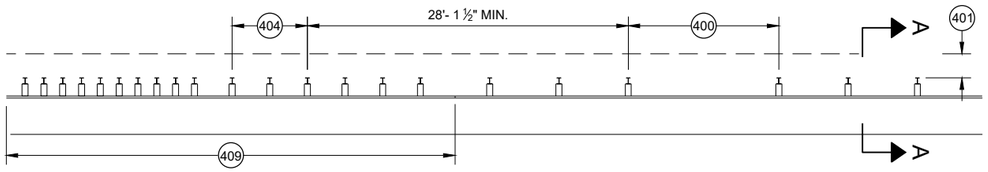
6
SDD 14B42 - 07c



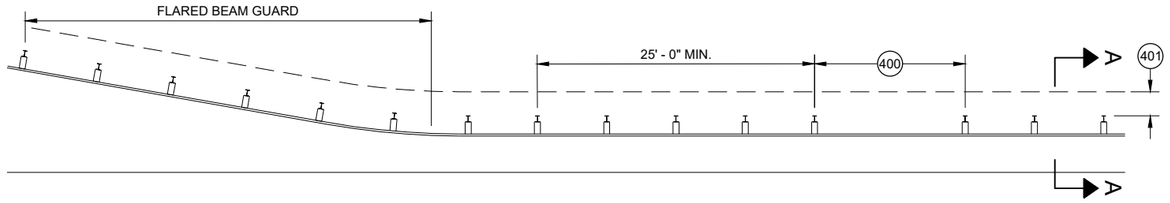
MISSING POST IN MGS GUARDRAIL



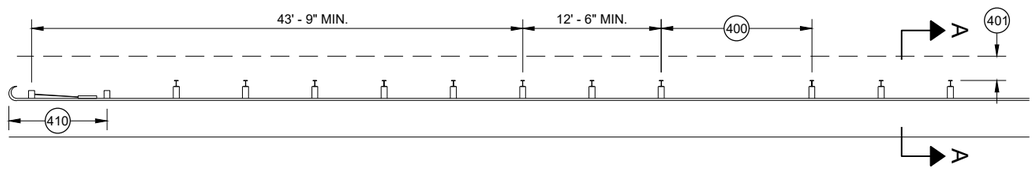
MISSING POST IN MGS GUARDRAIL NEAR EAT



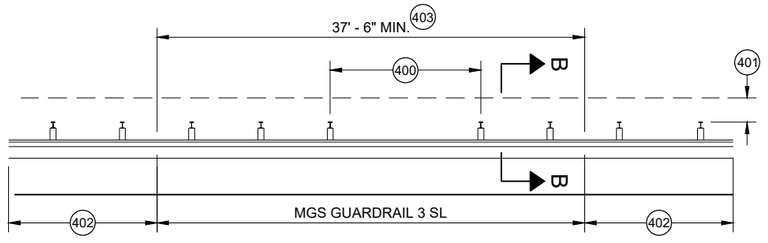
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

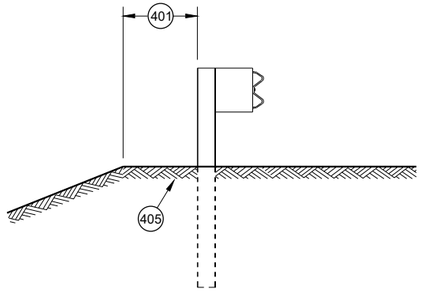


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

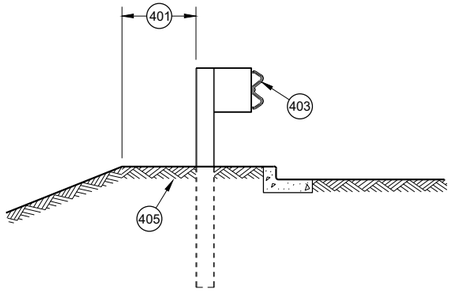


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(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

6

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.

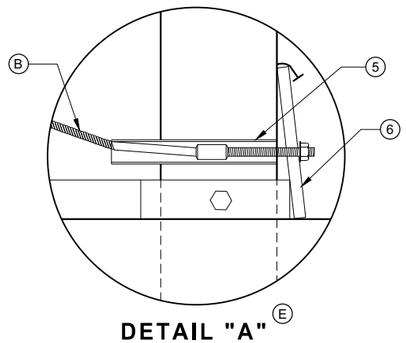
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

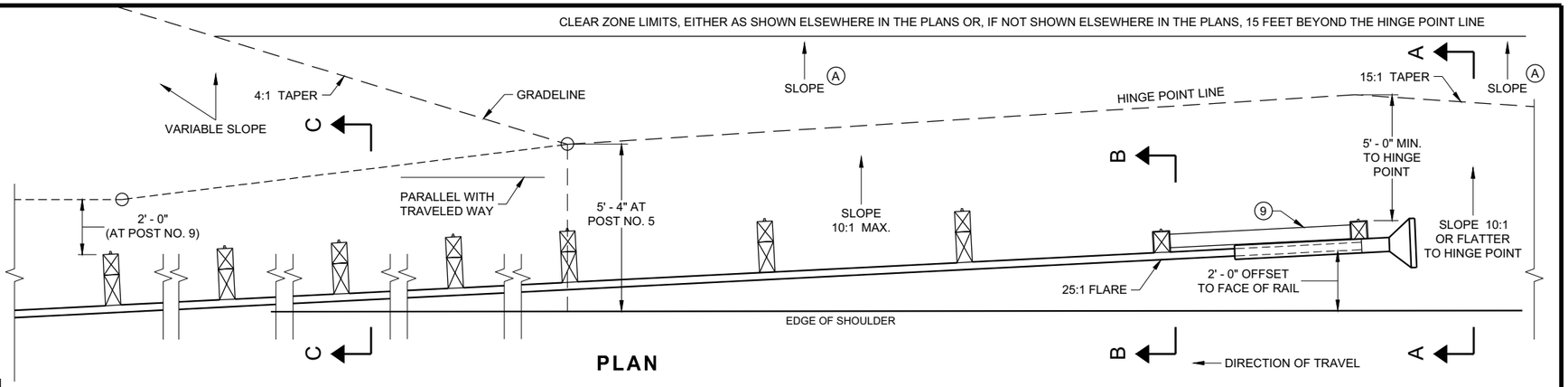
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

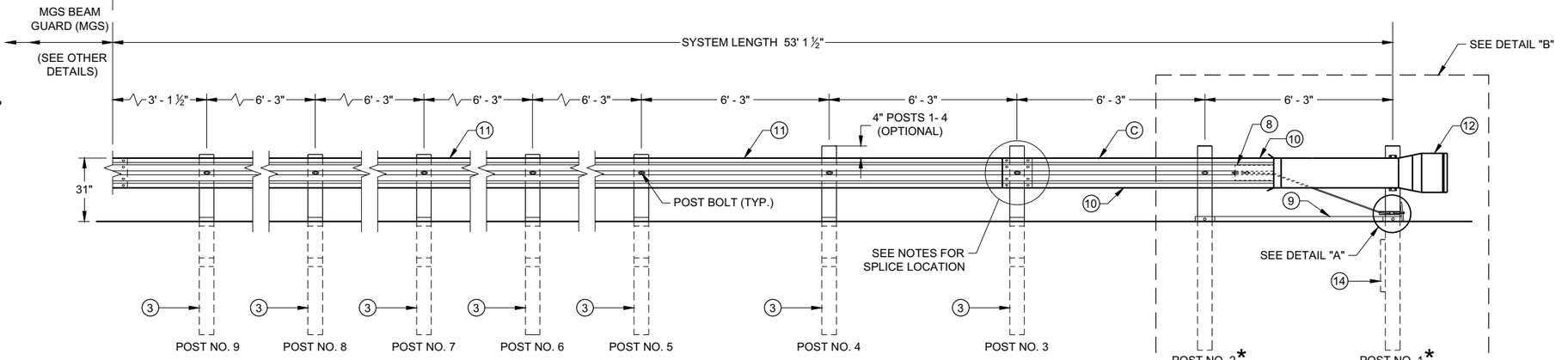
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



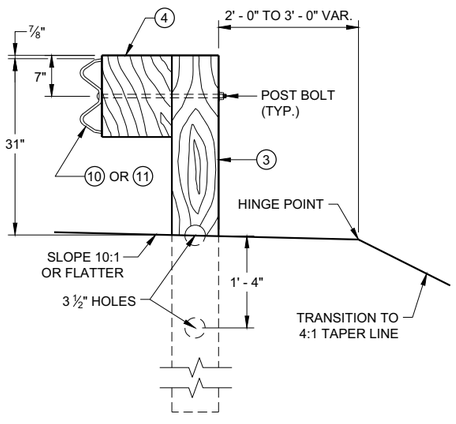
DETAIL "A" (E)



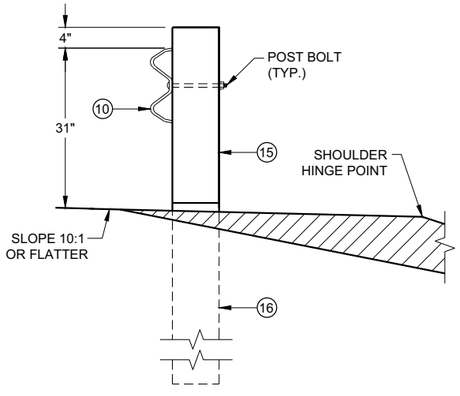
PLAN



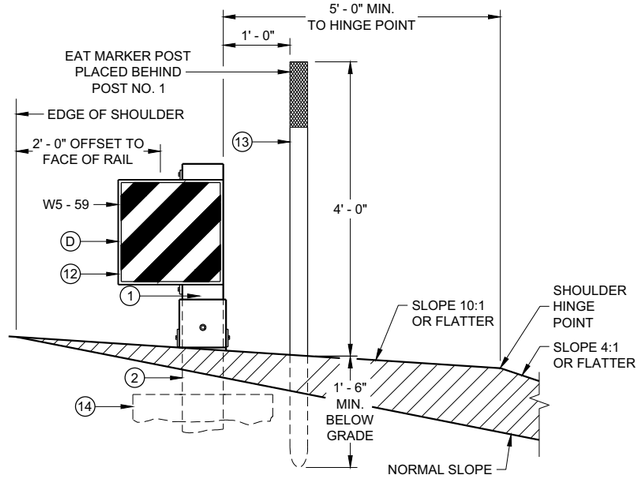
ELEVATION



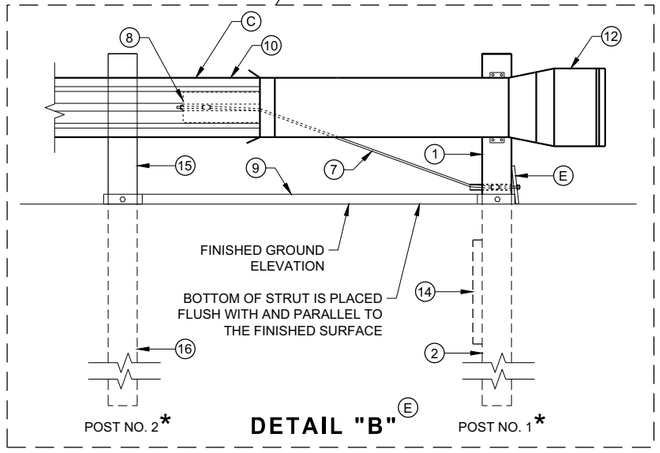
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*

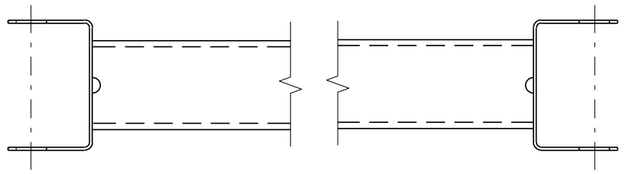


DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

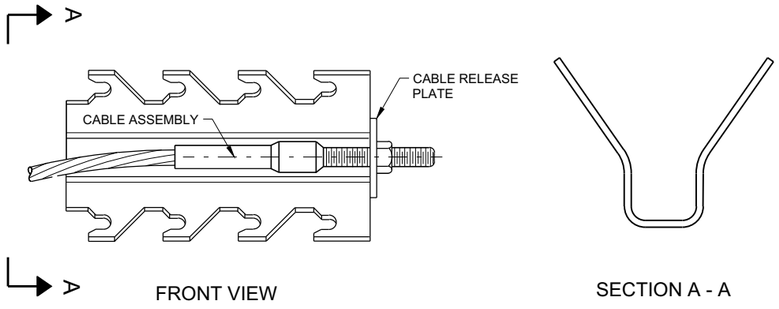
6
SDD 14B44 - 04a



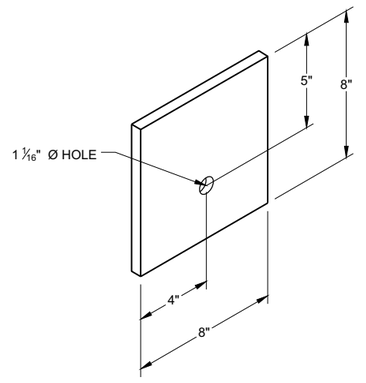
GENERIC GROUND STRUT ⑨ Ⓔ

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 Ⓔ



BEARING PLATE ⑥ Ⓔ

6

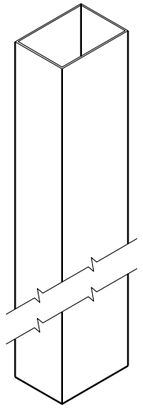
6

SDD 14B44 - 04b

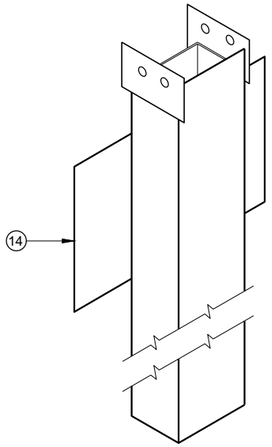
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

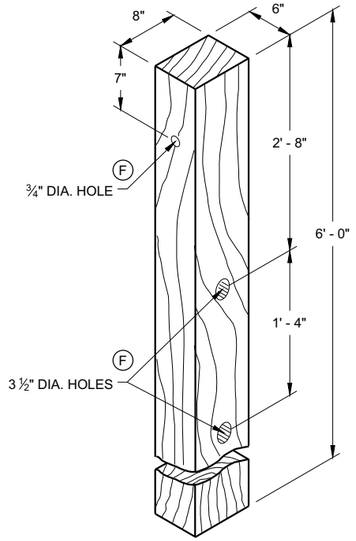
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA



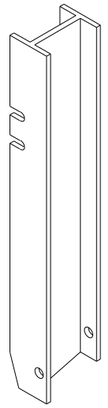
UPPER POST NO. 1 (1) (E)



LOWER POST NO. 1 (2) (E)



WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



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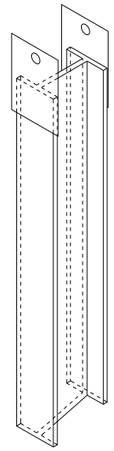
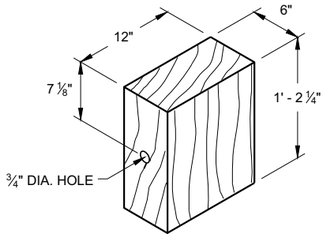
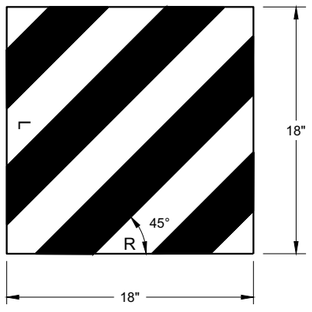


LOWER POST NO. 2 (16) (E)

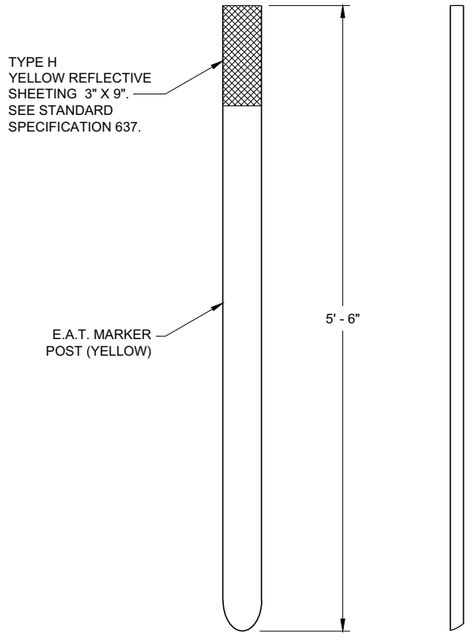


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



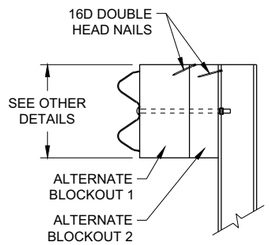
W5 - 59

REFLECTIVE SHEETING DETAIL (E)

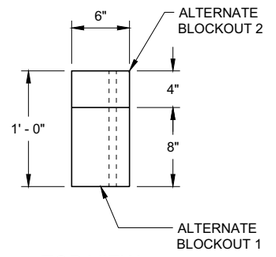


FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

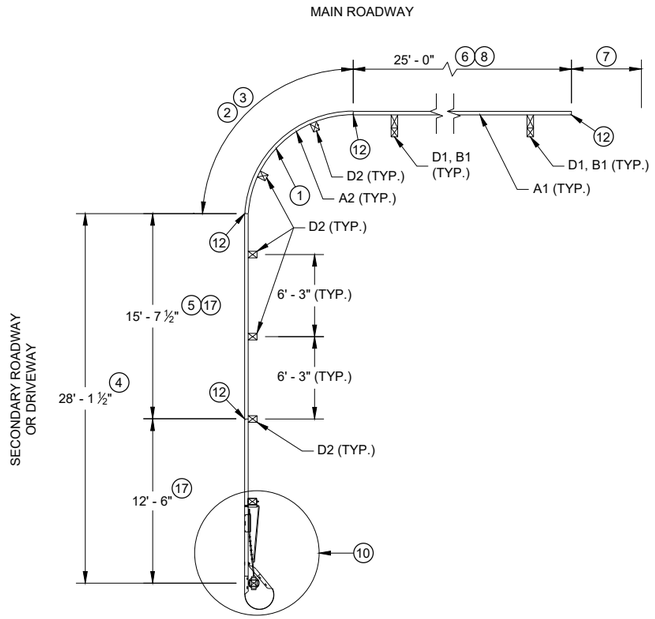
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

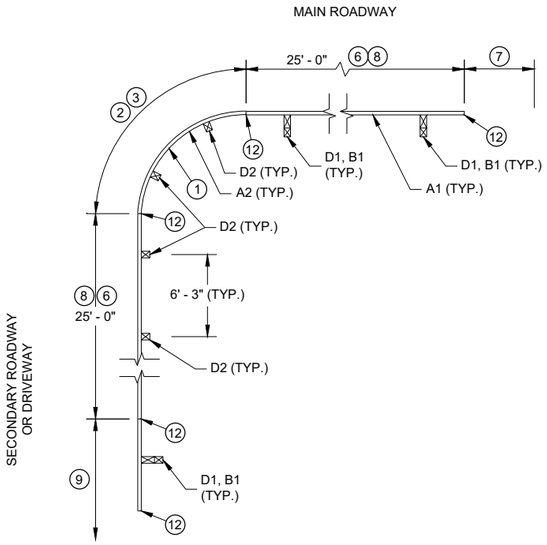
6

SDD 14B44 - 04c



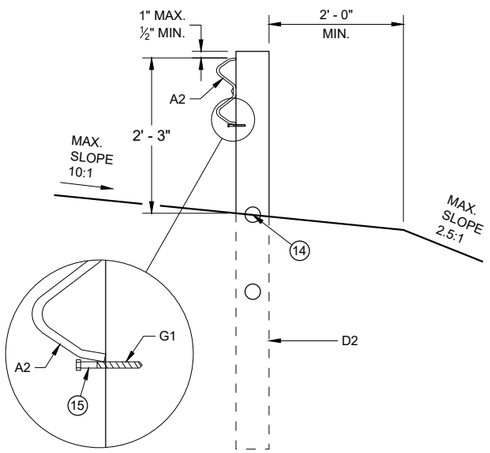
PLAN VIEW

SHORT RADIUS BEAM GUARD WITH SHORT RADIUS TERMINAL ON SECONDARY ROAD OR DRIVEWAY

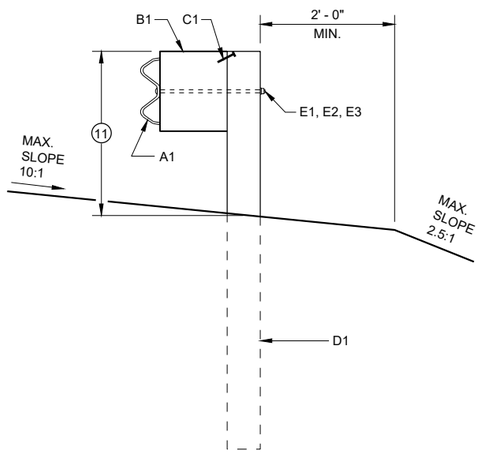


PLAN VIEW

SHORT RADIUS BEAM GUARD WITH EAT, ADDITIONAL BEAM GUARD OR TRANSITION TO RIGID BARRIER ON SECONDARY ROAD OR DRIVEWAY



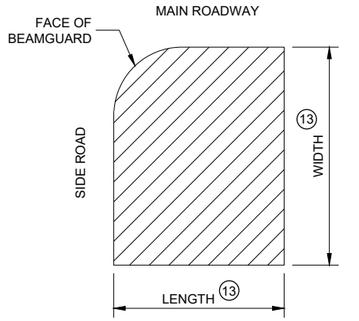
CONTROLLED RELEASE TERMINAL POST (CRT) IN RADIUS



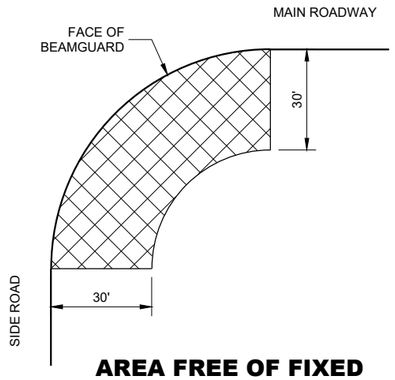
BEAM GUARD POSTS IN HEIGHT TRANSITION

TABLE FOR RADIUS OF 32' AND LESS

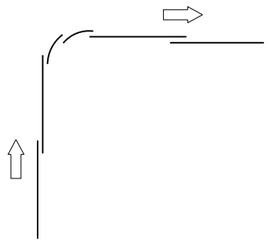
RADIUS (FT)	LENGTH (FT)	WIDTH (FT)
8	25	15
16	30	15
24	40	20
32	50	30



AREA FREE OF FIXED OBJECTS FOR RADIUS 32' AND LESS (16)



AREA FREE OF FIXED OBJECTS FOR RADIUS GREATER THAN 32'



LAP SPLICE DETAIL

GENERAL NOTES

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

SEE SDD 14B42 FOR MORE INFORMATION ON BEAM GUARD INSTALLATION, PARTS, MATERIALS, AND INSTALLATION INFORMATION.

GALVANIZE PARTS AFTER FABRICATION.

WELDING TO FOLLOW CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI / AWS D1.1.

UNLESS NOTED OTHERWISE, ALL PLATES ARE FLAT AND FREE OF WARP.

UNLESS NOTED OTHERWISE, ALL EDGES ARE SMOOTH, STRAIGHT AND VERTICAL.

ALL CUTS AND HOLES, EXCEPT IN BEAM GUARD RAIL ARE TO BE MACHINED OR MACHINE FLAME CUT.

UNLESS NOTED OTHERWISE, CUT OR PROVIDE BOLTS THAT ARE ¼" TO ½" BEYOND THE NUT.

DRAWINGS ARE NOT TO SCALE.

(1) RADIUS MEASURE FROM INSIDE OF RAIL. LENGTH OF BEAM GUARD SHORT RADIUS GUARD MEASURED ALONG TRAFFIC SIDE OF RAIL. RADIUS BETWEEN 8 FEET TO 150 FEET. SEE PLAN FOR REQUIRED RADIUS. BEAM GUARD RAIL IN RADIUS IS SHOP BENT. ODD RAIL LENGTH OR FIELD CUTS MAY BE REQUIRED.

(2) CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE USED IN THE RADIUS. CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE SPACED 6' - 3". SEE PLAN FOR NUMBER OF CONTROLLED RELEASE (CRT) POSTS.

(3) WITHIN RADIUS BEAM GUARD RAILS ARE NOT BOLTED TO POSTS. BEAM GUARD RAIL IS RESTED ON TOP OF LAG SCREW.

(4) MINIMUM LENGTH OF BEAM GUARD ALONG SIDE ROAD OR DRIVEWAY TO INSTALL SHORT RADIUS TERMINAL. BEAM GUARD IS PAID WITH BEAM GUARD ITEM.

(5) ODD LENGTH OF BEAM GUARD REQUIRED TO INSTALL SHORT RADIUS TERMINAL.

(6) MINIMUM AMOUNT OF BEAM GUARD TO BE INSTALLED PRIOR TO TRANSITION TO RIGID BARRIER. ADDITIONAL BEAM GUARD, OR EAT. BEAM GUARD PAID FOR WITH BEAM GUARD ITEM. SEE PLANS FOR MORE DETAIL.

(7) BEAM GUARD, EAT, OR TRANSITION TO RIGID BARRIER. SEE PLAN.

(8) TOP OF BEAM GUARD BY THE RADIUS IS 27". HEIGHT OF BEAM GUARD IS 31" BY TRANSITION TO RIGID BARRIER, ADDITIONAL BEAM GUARD OR EAT.

(9) ADDITIONAL BEAM GUARD, EAT OR TRANSITION TO RIGID BARRIER. BEAM GUARD SHOWN. SEE PLAN FOR DETAILS.

(10) SHORT RADIUS TERMINAL (SEE OTHER DETAILS).

(11) HEIGHT VARIES. SEE NOTE (8) AND (8).

(12) BEAM GUARD RAIL SPLICE LOCATION. SPLICE LOCATION REQUIRES PART F1 AND F2. SEE SDD 14B42 FOR DETAILS.

(13) SEE TABLE FOR VALUES.

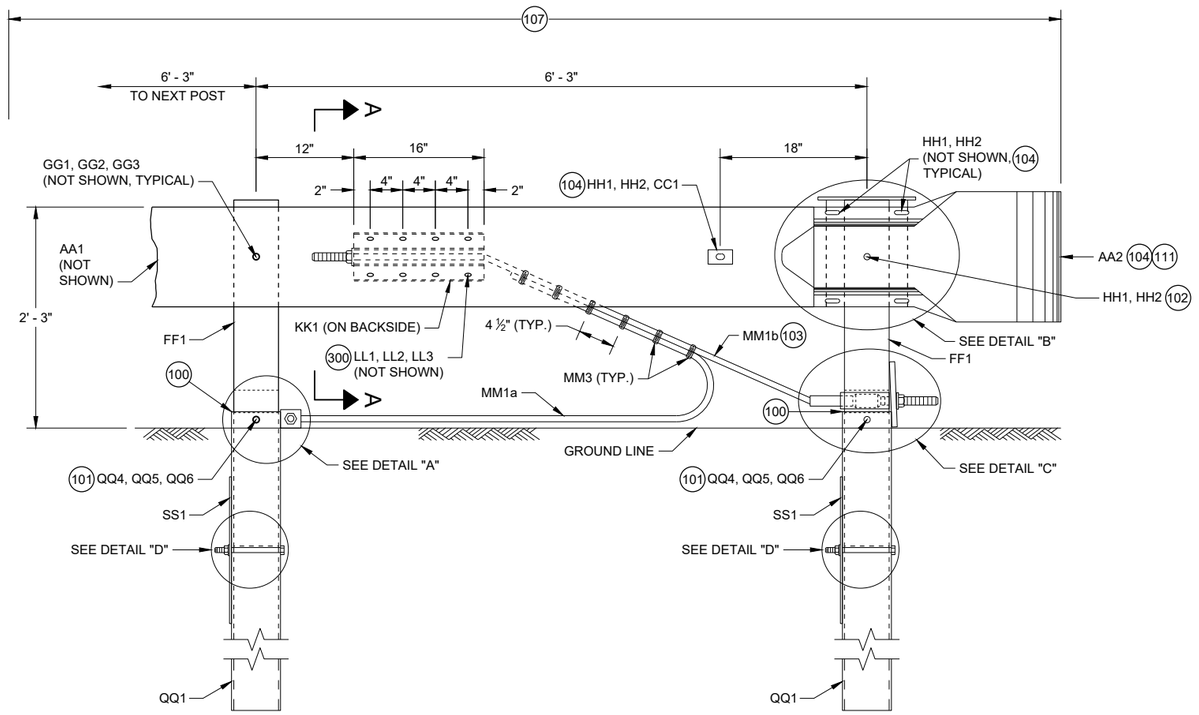
(14) MAXIMUM HEIGHT FOR CENTER OF HOLE IS ¾" ABOVE FINISHED GROUND ±1".

(15) DRILL POST $^{15}/_{64}$" DIA. PILOT HOLE. DO NOT HAMMER LAG SCREW INTO POST.

(16) SMALL SIGNS ON BREAKAWAY HARDWARE ARE ACCEPTABLE.

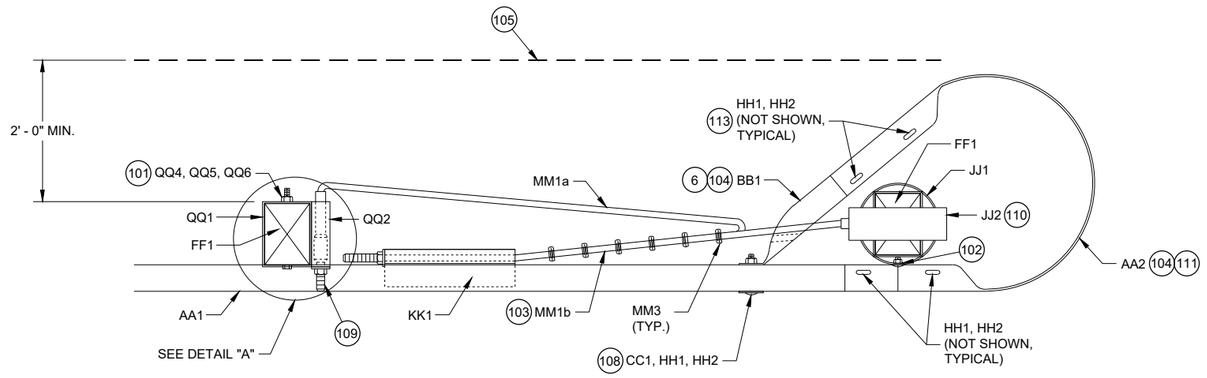
(17) TOP OF RAIL HEIGHT IS 27" WHEN USING A SHORT RADIUS TERMINAL (CRT).

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)



PROFILE VIEW

SHORT RADIUS TERMINAL



TOP VIEW

SHORT RADIUS TERMINAL

GENERAL NOTES

100 TOP OF FOUNDATION TUBE 2 INCHES MAXIMUM ABOVE FINISHED GROUND.

101 WASHERS REQUIRED BETWEEN BOLT HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.

102 SPLICE BOLT AND NUT CONNECTS BEAM GUARD RAIL, W-BEAM SECTION BUFFER, AND STEEL PIPE ASSEMBLY. NO WASHER REQUIRED. SEE DETAIL "B".

103 CABLE IS TAUT.

104 ADJUST AA2 AND BB1 TO FIT.

105 BREAK POINT OF SHOULDER.

106 TACK WELD CABLE CONNECTOR TUBE PLATE TO CABLE CONNECTION TUBE. SEE DETAIL "A" PROFILE VIEW.

107 PAY LIMIT FOR BEAM GUARD.

108 SQUARE WASHER BETWEEN HEAD OF BOLT AND TRAFFIC FACE OF BEAM GUARD. ROUND WASHER REQUIRED BETWEEN NUT AND BB1.

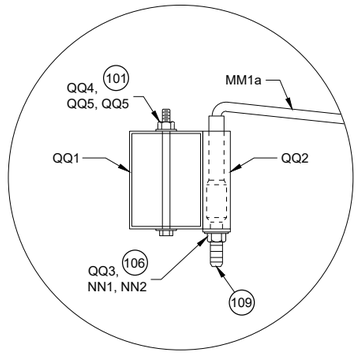
109 CUT OR PROVIDE THREADED STUD THAT IS FLUSH WITH FACE OF BEAM GUARD RAIL KK1 (PLUS OR MINUS ½" TOLERANCE). DEBURR AFTER CUTTING.

110 SEE STEEL PIPE ASSEMBLY DETAILS.

111 ATTACH UU2 WITH UU3. SHOP APPLY UU1 TO UU2.

112 FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA1 TO AA2.

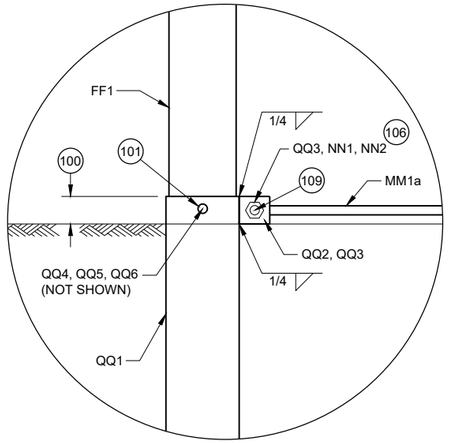
113 FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA2 TO BB1.



TOP VIEW

DETAIL "A"

(WOOD BREAKAWAY AND BEAM GUARD RAIL POSTS NOT SHOWN)



PROFILE VIEW

DETAIL "A"

6

SDD 14B53 - 02b

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

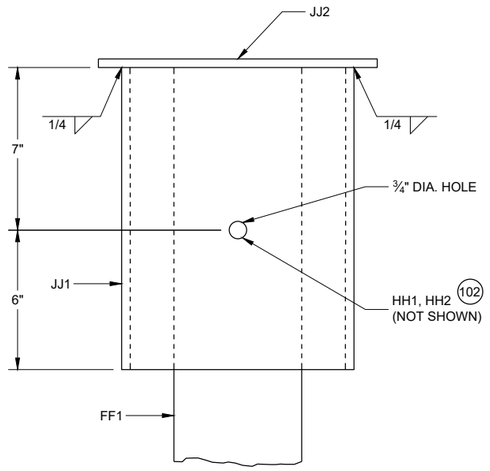
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B53 - 02b

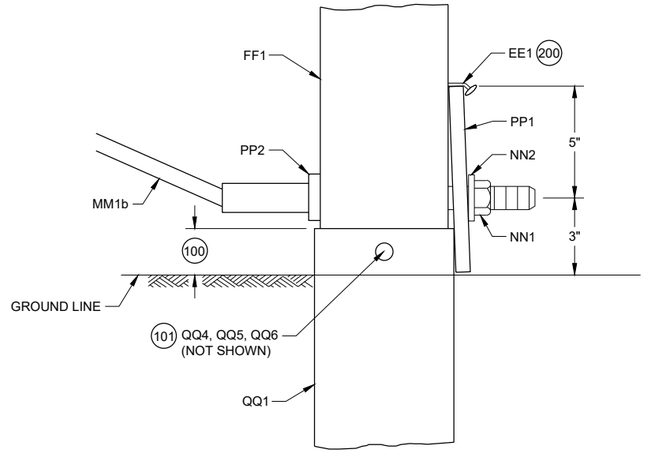
GENERAL NOTES

(200) TWO (2) NAILS SPACED 4 INCHES CENTER TO CENTER.



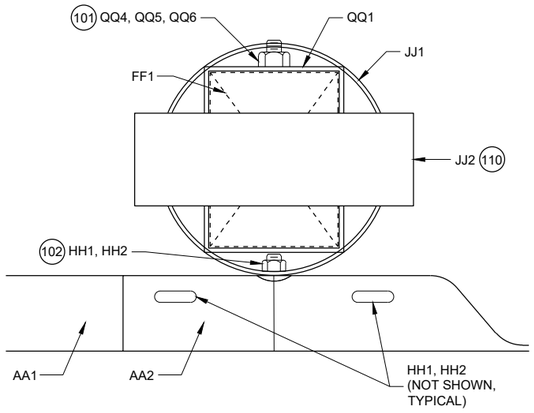
PROFILE VIEW

DETAIL "B"
STEEL PIPE ASSEMBLY
(BEAM GUARD AND W BEAM END SECTION NOT SHOWN)



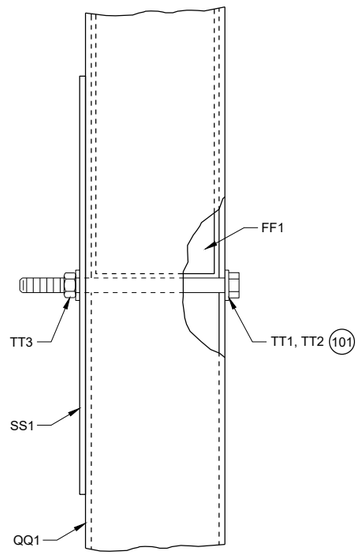
PROFILE VIEW

DETAIL "C"



PLAN VIEW

DETAIL "B"
STEEL PIPE ASSEMBLY



PROFILE VIEW

DETAIL "D"

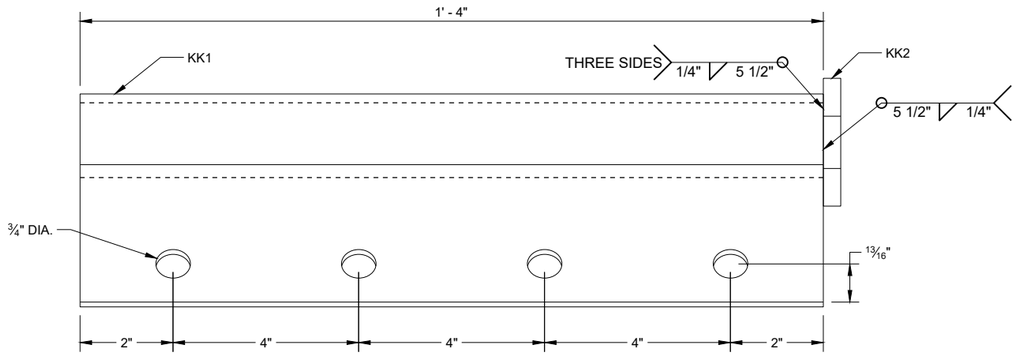
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

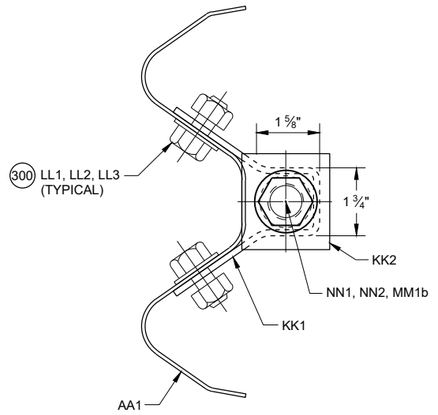
6

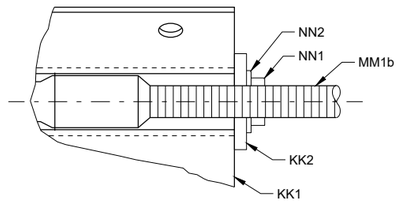
SDD 14B53 - 02c

GENERAL NOTES

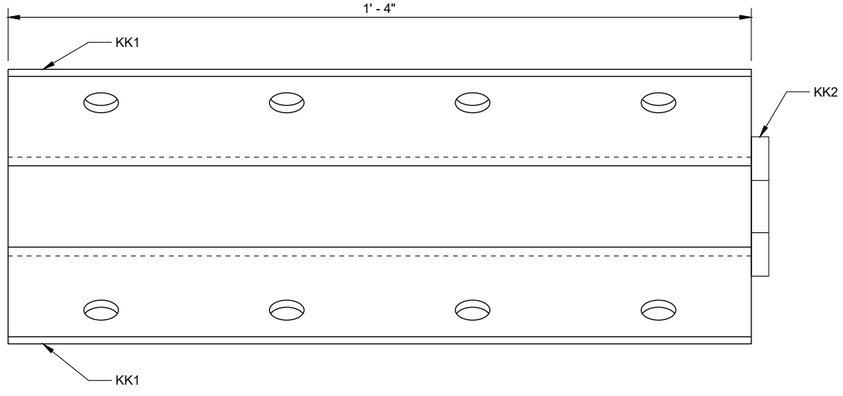
(300) WASHERS REQUIRED BETWEEN BOLT HEAD AND BEAM GUARD RAIL AND BETWEEN NUT AND ANCHOR BRACKET. EIGHT (8) LL1 AND LL3 REQUIRED. SIXTEEN (16) LL2 REQUIRED.

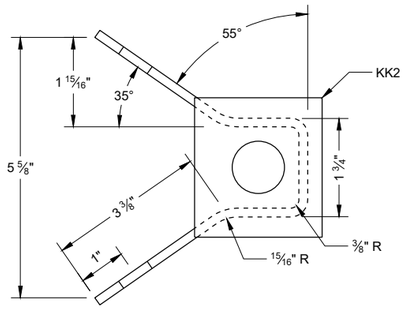




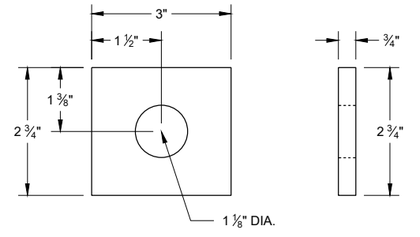


SECTION A - A





ANCHOR BRACKET (KK1, KK2)



ANCHOR BRACKET BEARING PLATE (KK2)

6

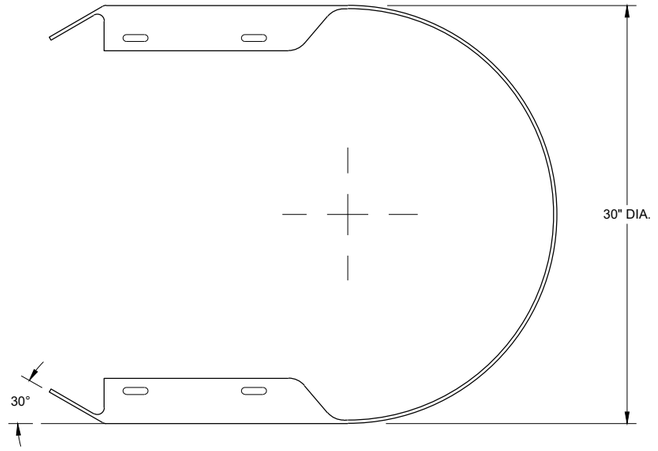
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

SDD 14B53 - 02d

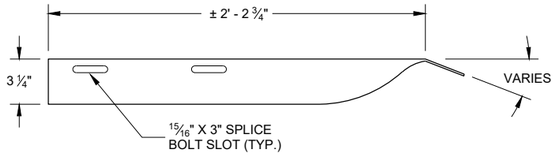
GENERAL NOTES

(400) CROSS SECTION OF PART IS TO FIT OVER AA1 .

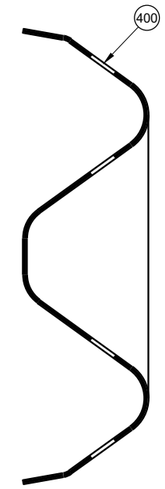
(401) CROSS SECTION OF PART IS TO FIT OVER OR UNDER AA1 .



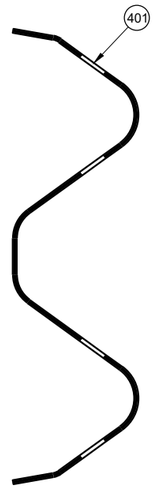
TOP VIEW



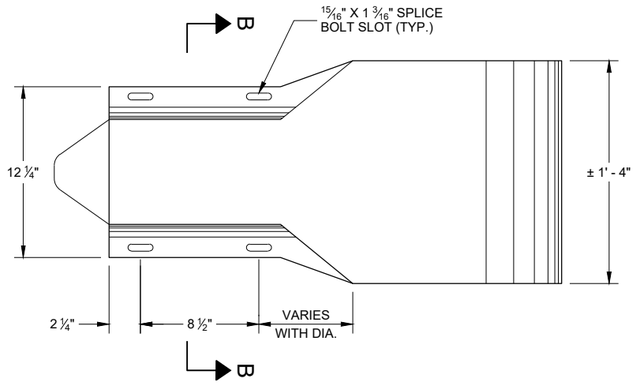
TOP VIEW



SECTION B -B

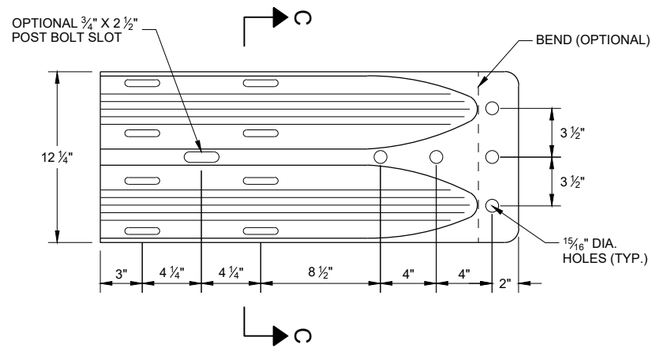


SECTION C -C



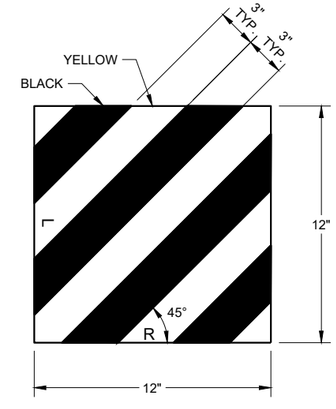
PROFILE VIEW

W BEAM
END SECTION BUFFER (AA2)



PROFILE VIEW

W BEAM
TERMINAL CONNECTOR (BB1)



REFLECTIVE SHEETING (UU1, UU2)

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

SDD 14B53 - 02e

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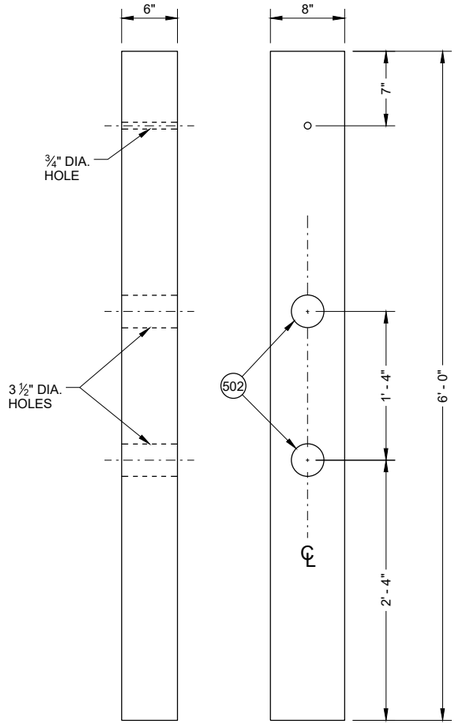
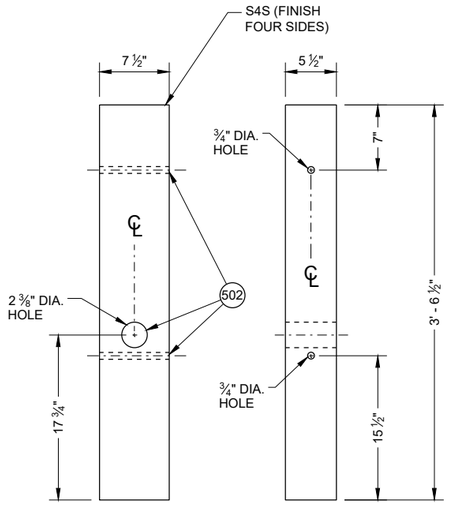


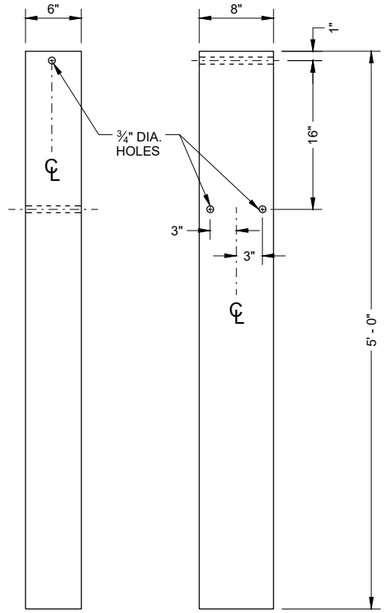
FRONT VIEW SIDE VIEW

CONTROLLED RELEASE POST (CRT) (DD2)



FRONT VIEW SIDE VIEW

WOOD BREAKAWAY POST (FF1)



FRONT VIEW SIDE VIEW

FOUNDATION TUBE (QQ1) 500

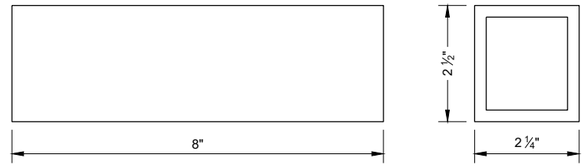
GENERAL NOTES

500 SEE DETAIL "D" FOR LOCATION AND ATTACHMENT OF SS1.

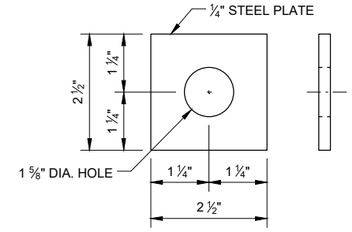
501 FOR MM1a THREADED STUD ONLY REQUIRED ON ONE END. SWAGED FITTING REQUIRED.

502 LOCATE HOLES ON THE CENTERLINE OF THE SIDE OF THE POST.

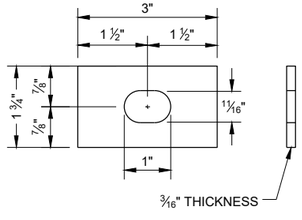
503 MM1a MAY HAVE ONE THREADED STUD 4 INCHES LONG. SEE NOTE 109.



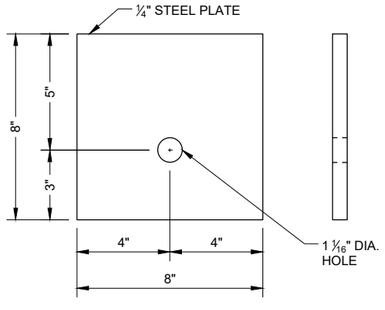
FOUNDATION TUBE - ANCHOR CABLE TUBE (QQ2)



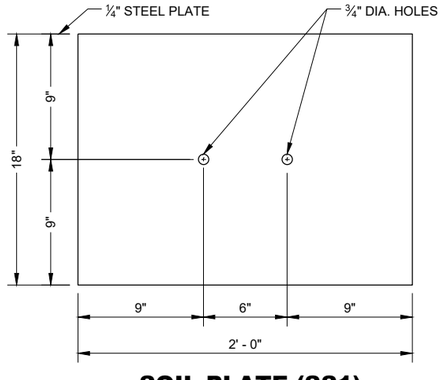
ANCHOR CABLE TUBE END PLATE (QQ3)



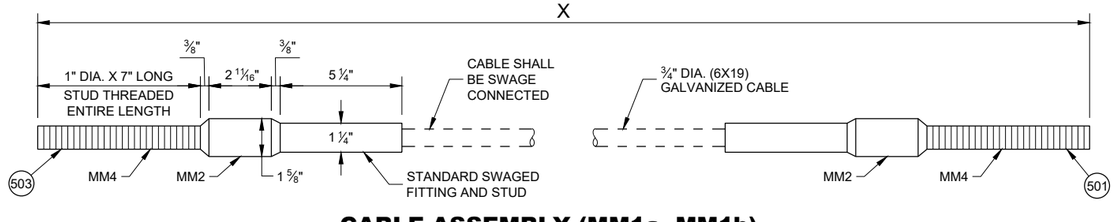
RECTANGULAR PLATE WASHER (CC1)



BEARING PLATE (PP1)



SOIL PLATE (SS1)



CABLE ASSEMBLY (MM1a, MM1b)

"X" LENGTH

MM1b	9' - 0"
MM1b	6' - 8"

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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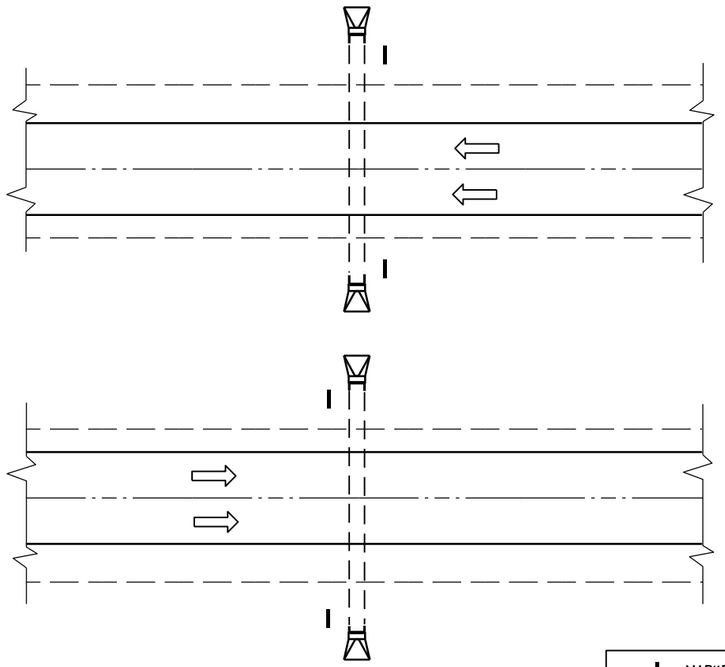
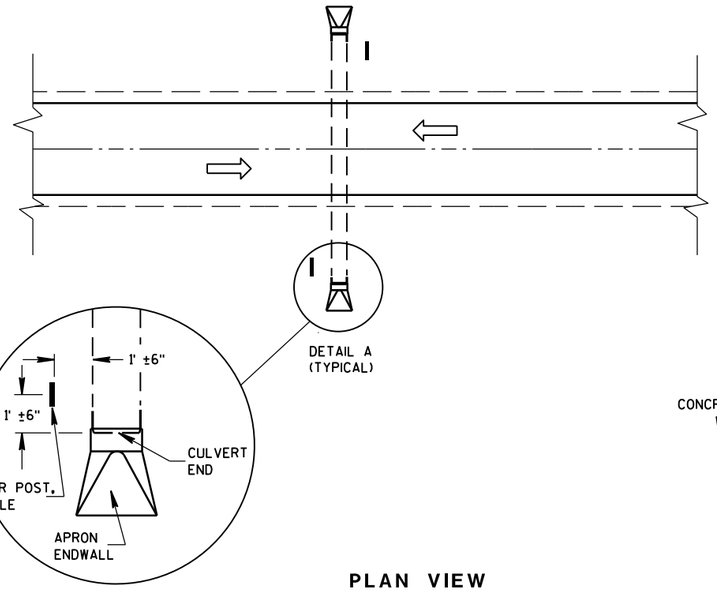
SDD 14B53 - 02f



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

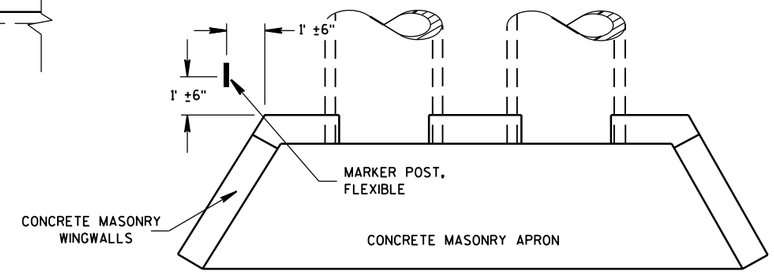
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

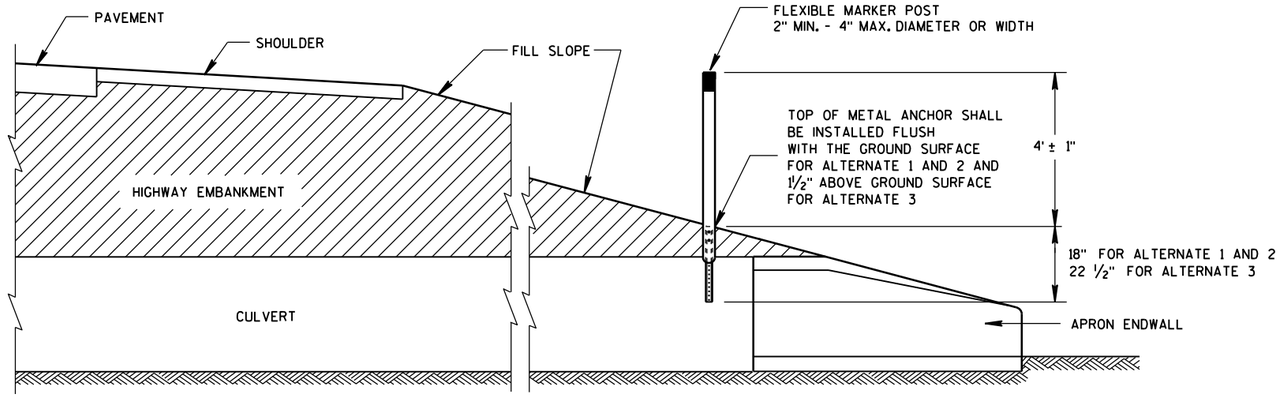
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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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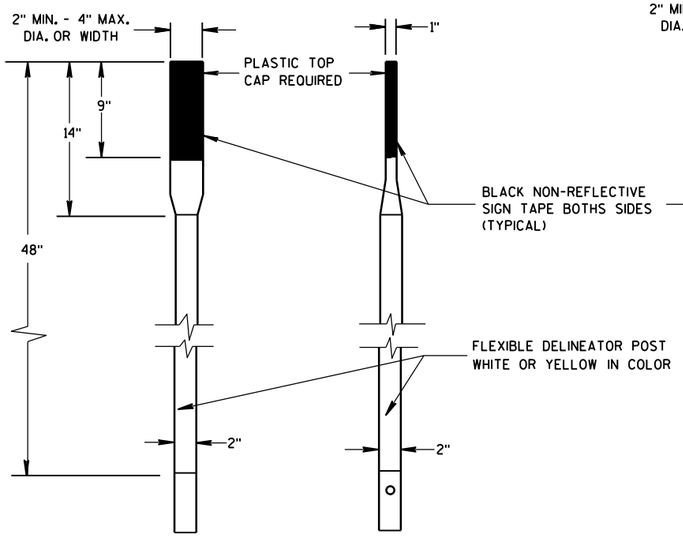
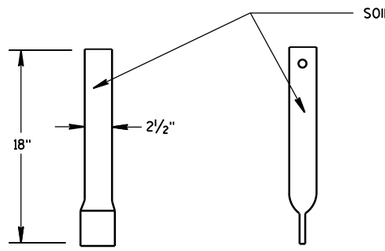
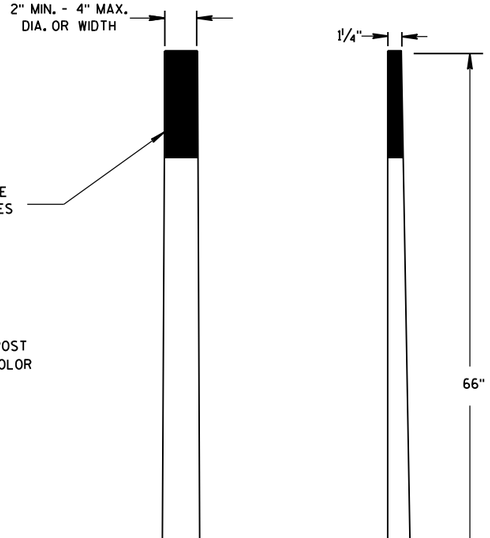
S.D.D. 15 A 3-2a





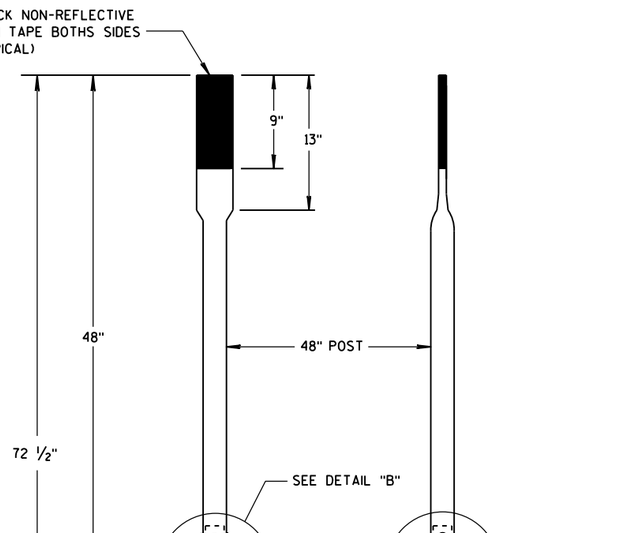
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

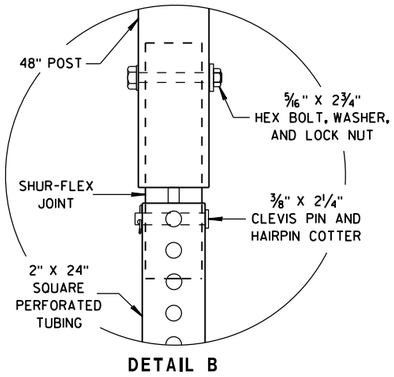
ALTERNATE 2



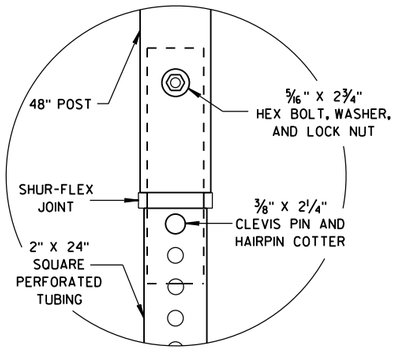
FRONT VIEW SIDE VIEW

ALTERNATE 3

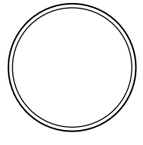
FLEXIBLE MARKER POSTS



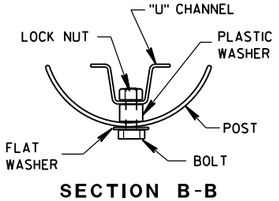
DETAIL B



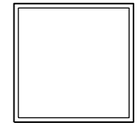
DETAIL C



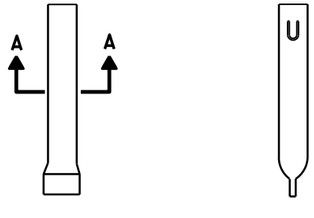
SECTION A-A



SECTION B-B

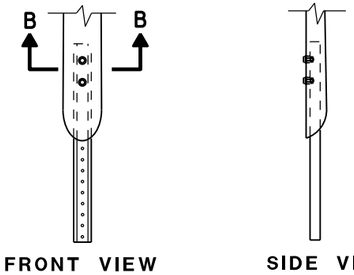


SECTION C-C



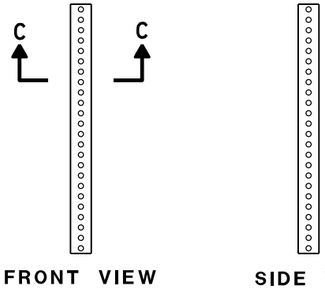
FRONT VIEW SIDE VIEW

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

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S.D.D. 15 A 3-2b

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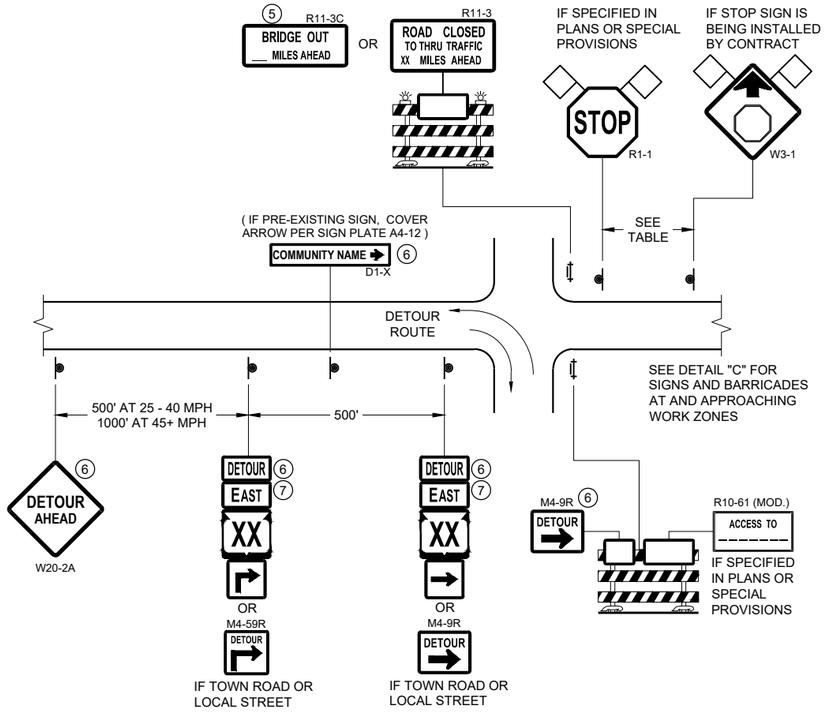
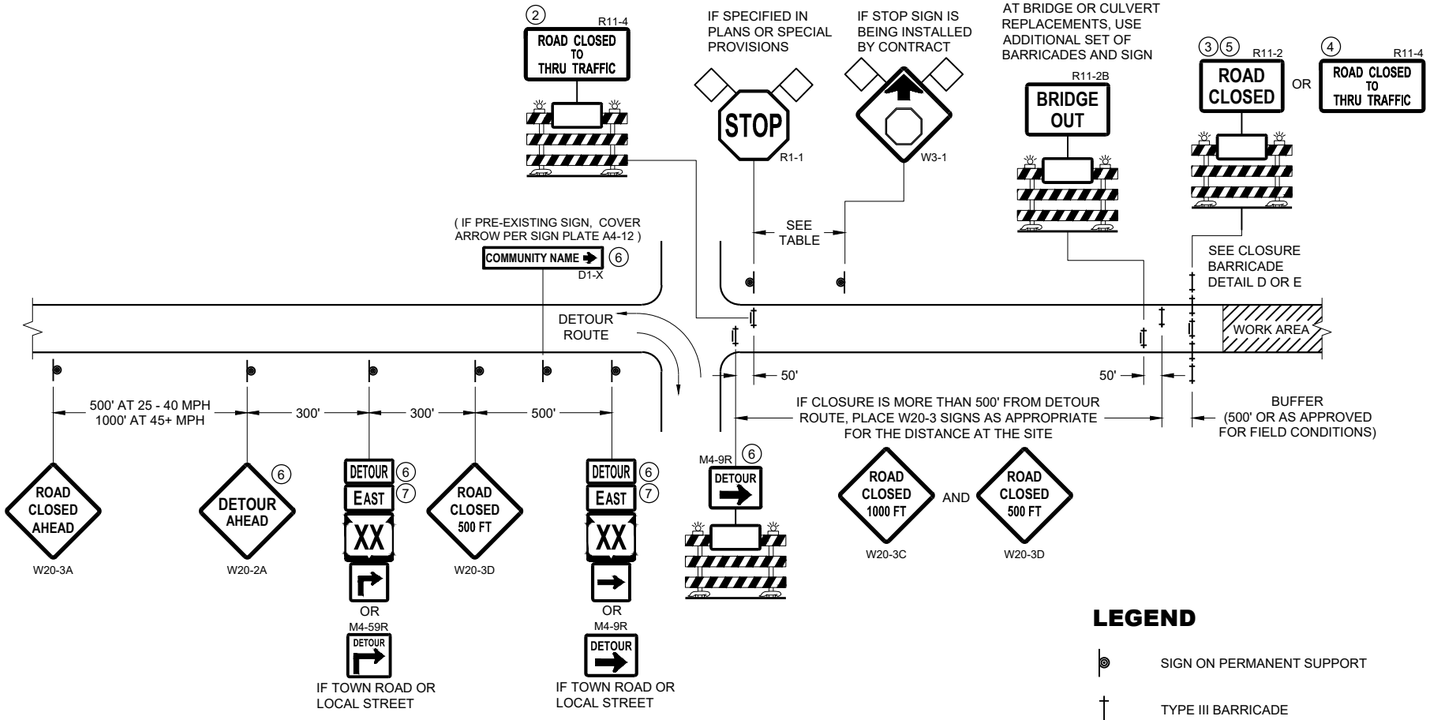
S.D.D. 15 A 3-2b



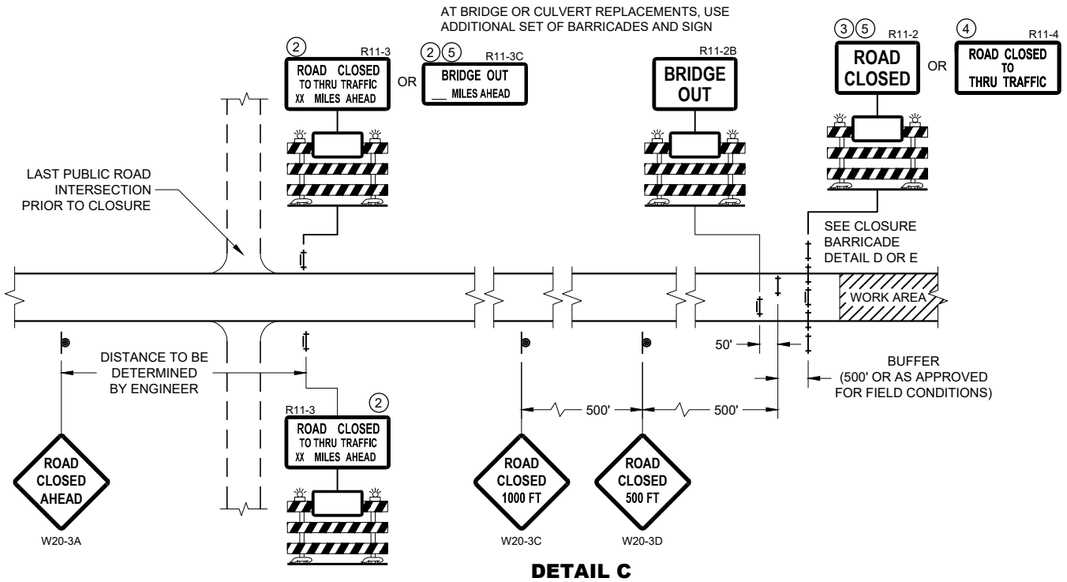
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

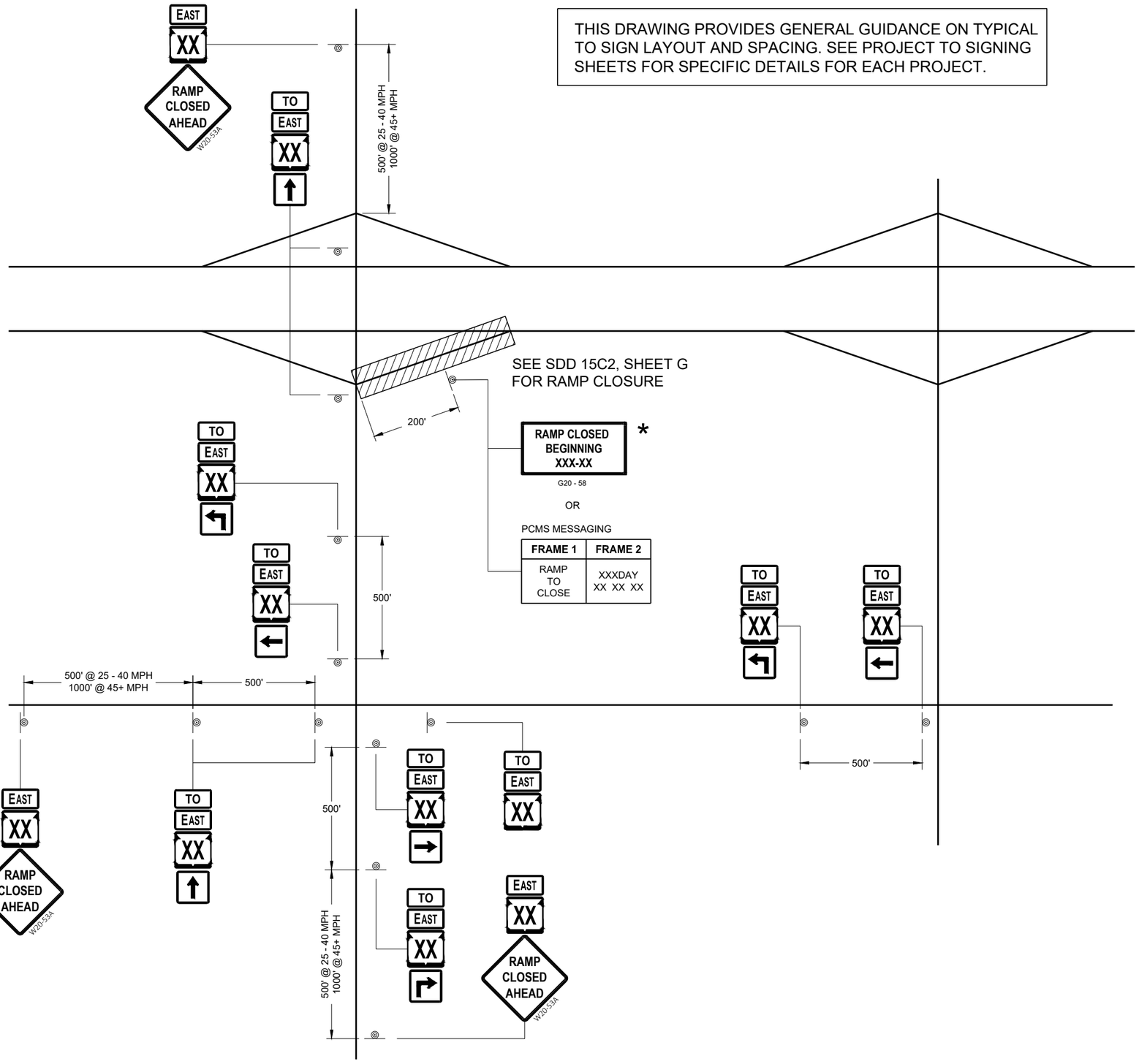
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C02 - 09a



THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

SIGN ON PERMANENT SUPPORT

TO EAST — MO4 - 5, M3 - X

XX M1 - 6 OR XX M1 - 4 OR INTERSTATE XX M1 - 1

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 ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO 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 SHALL 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 FOLLOW:
- M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
- W20 - 53A SHALL BE 48" X 48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

ON RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

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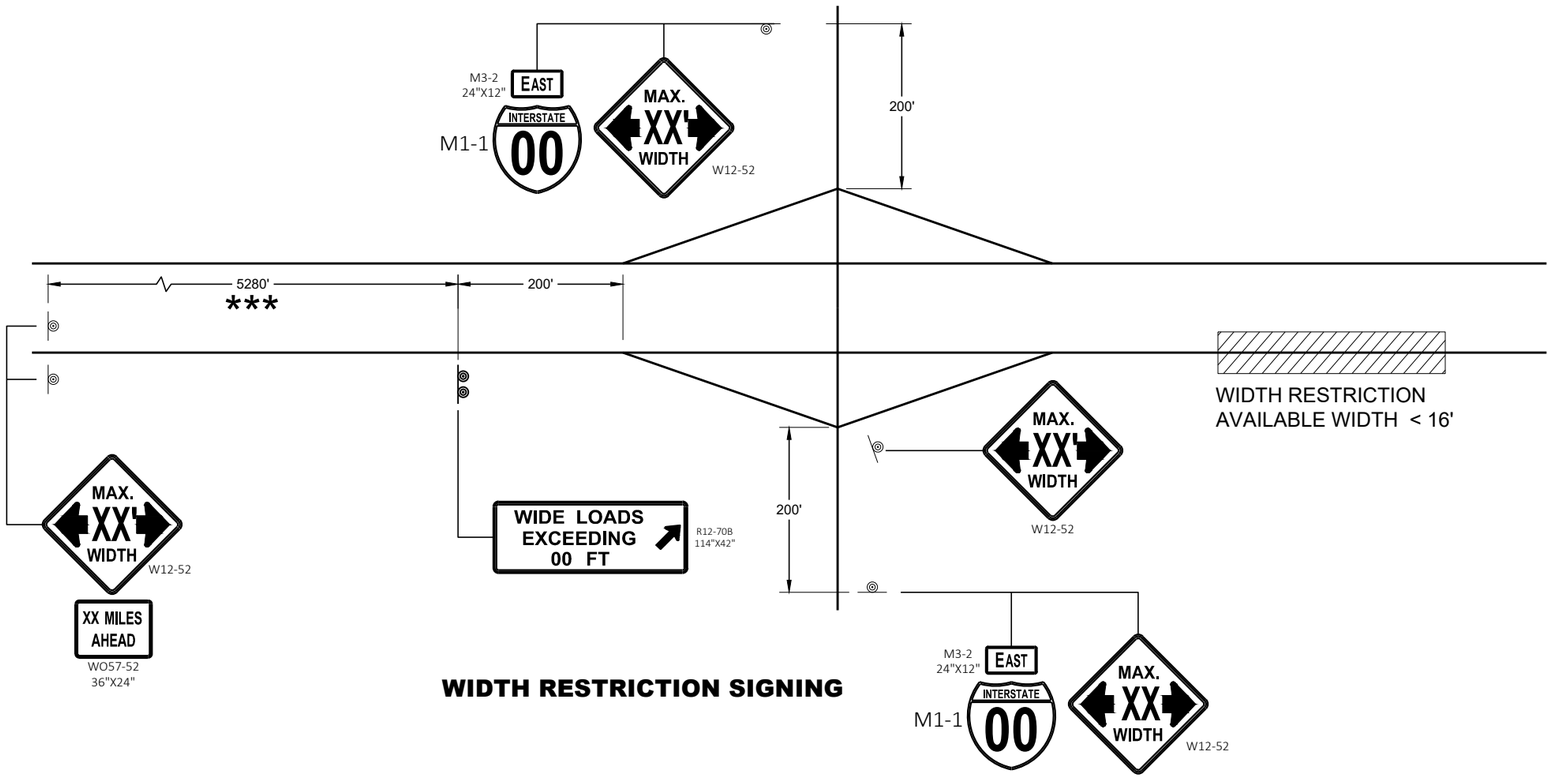
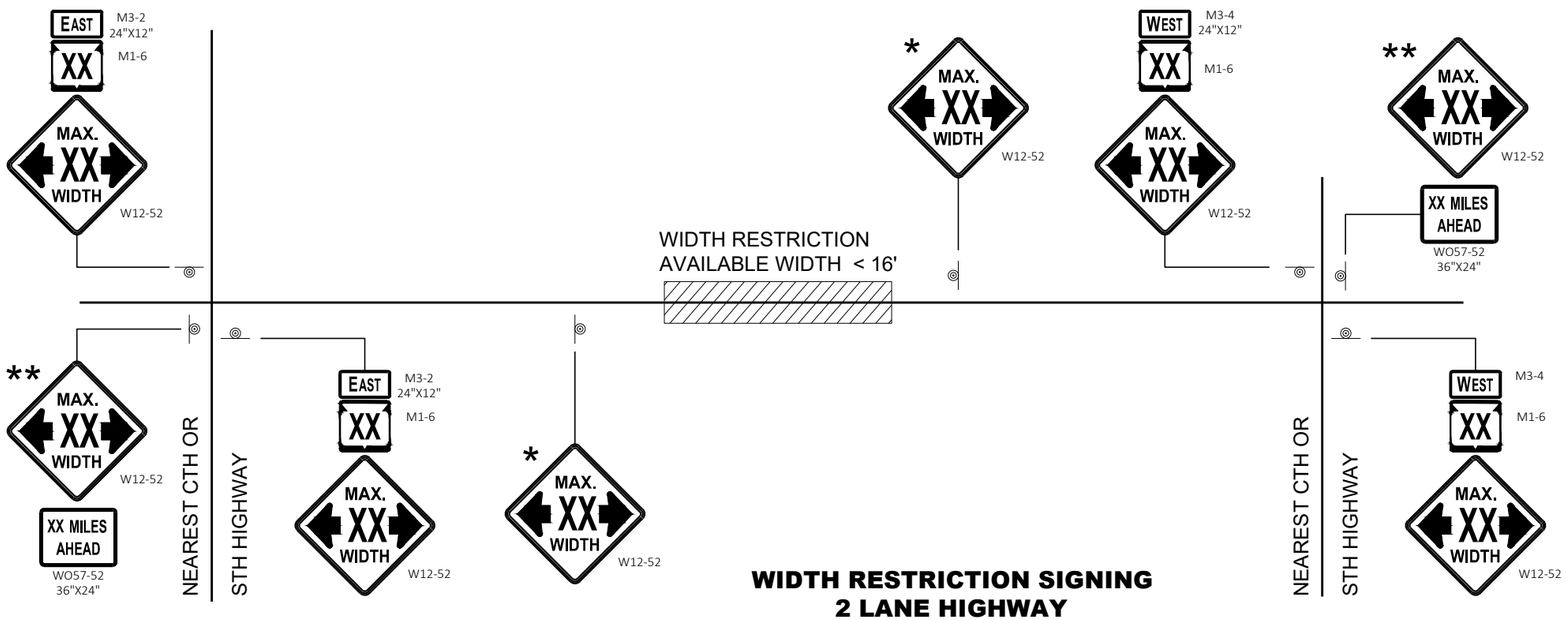
SDD 15C02 - 09d



WIDTH RESTRICTION SIGNING



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

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

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

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SDD 15C02 - 09f

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SDD 15C02 - 09f

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.

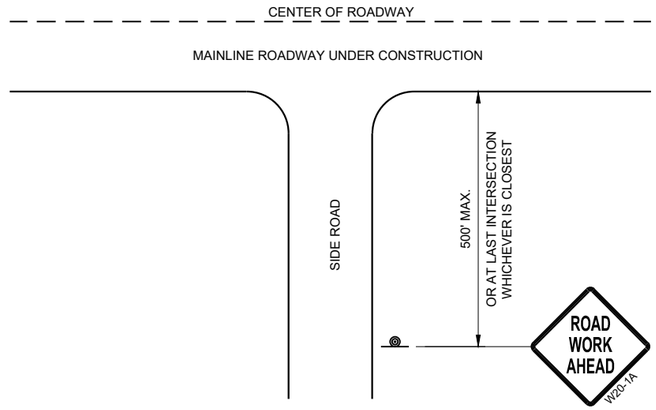
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

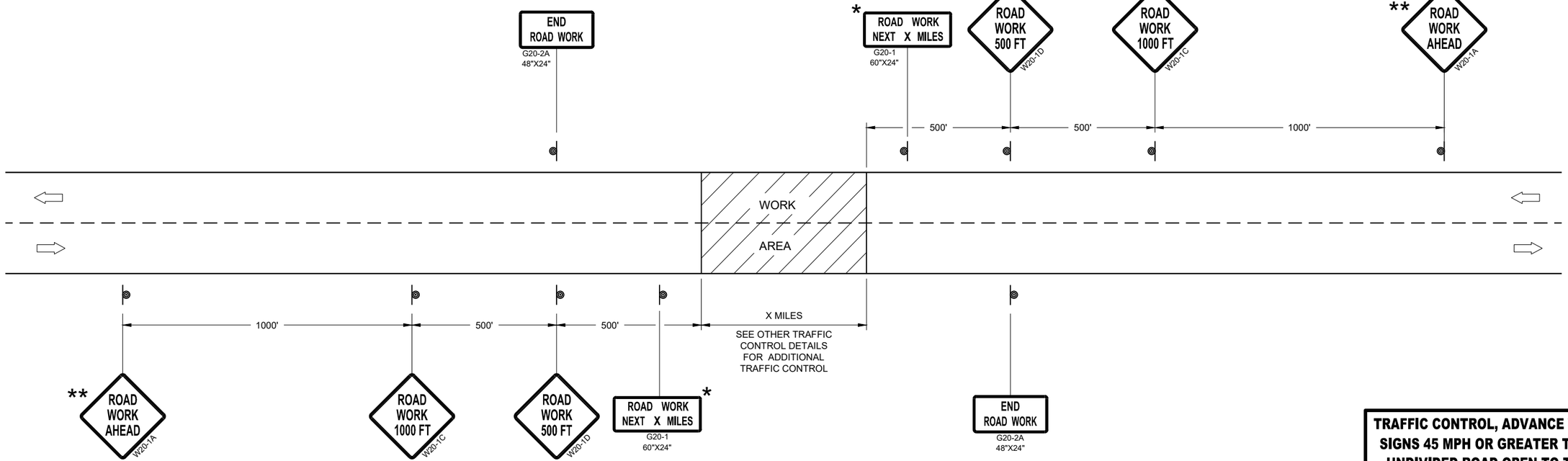
** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



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

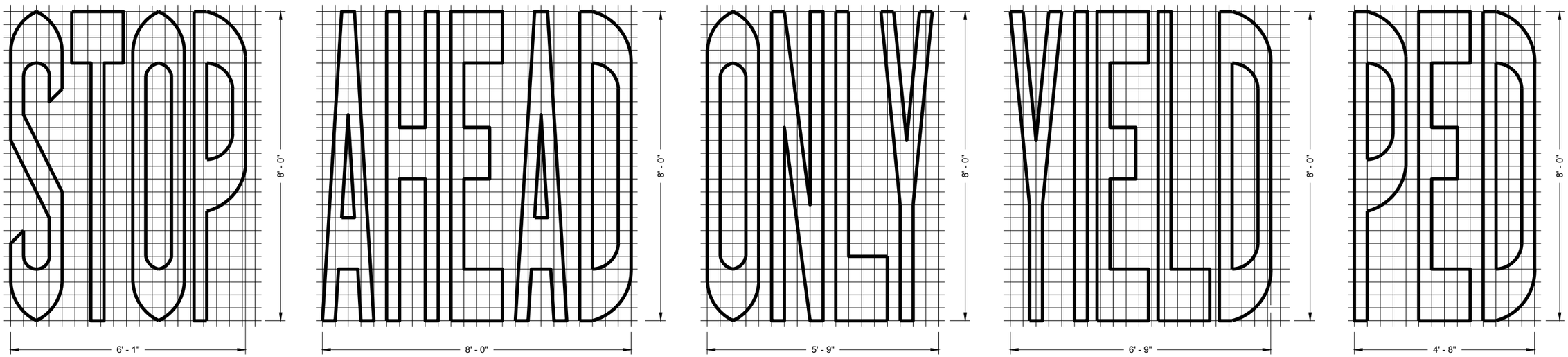
APPROVED
July 2018
DATE

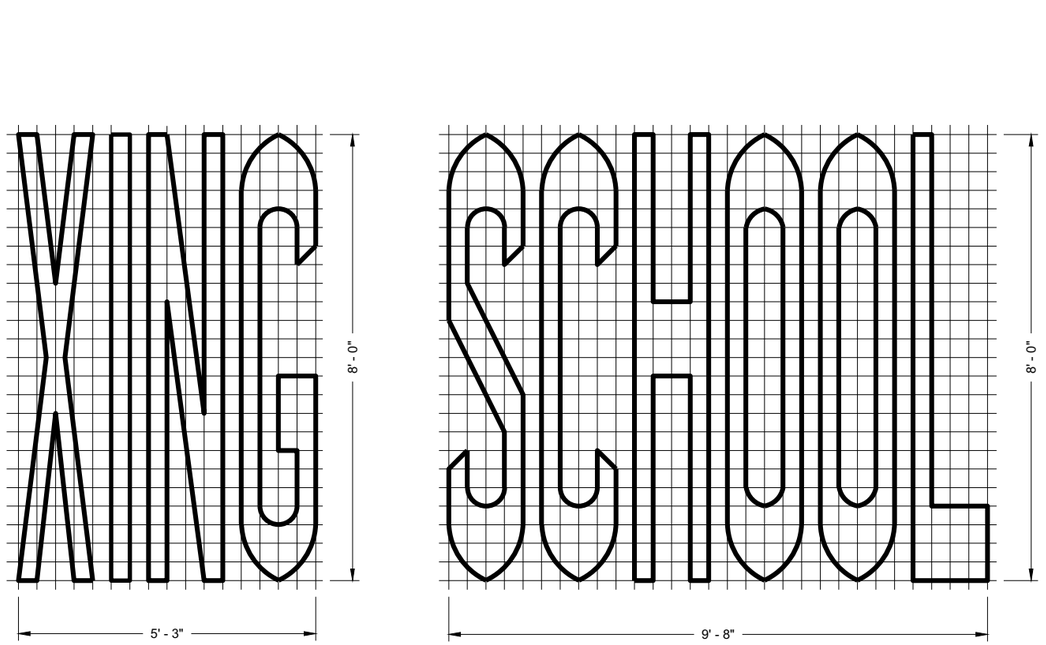
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

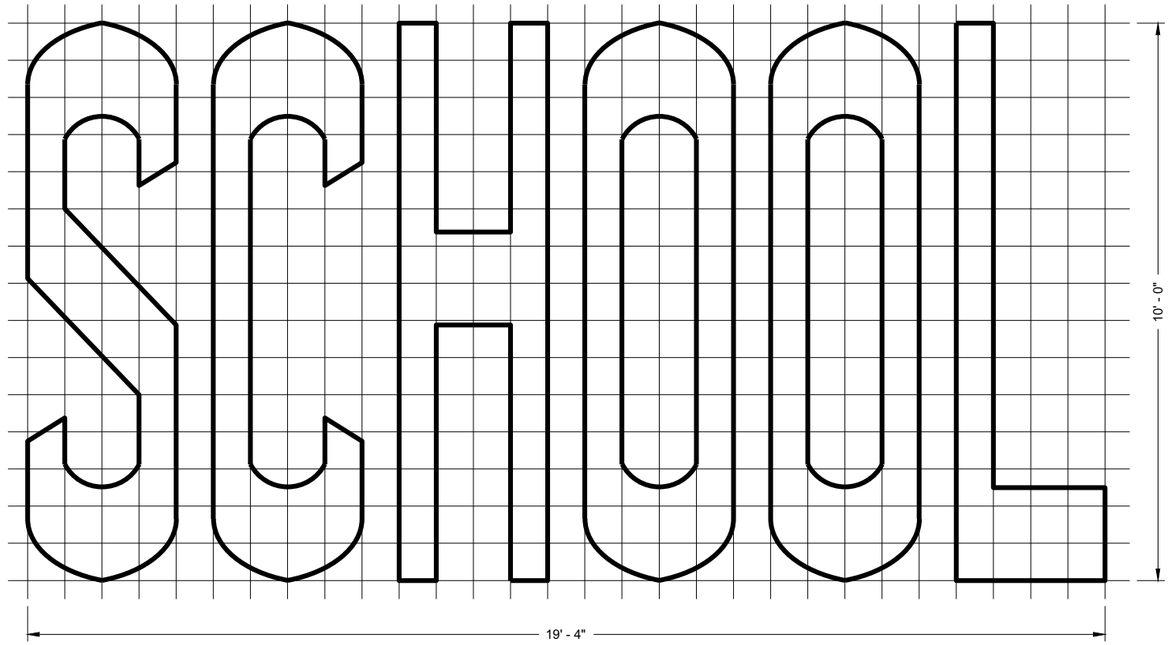
6

SDD 15C04 - 05





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

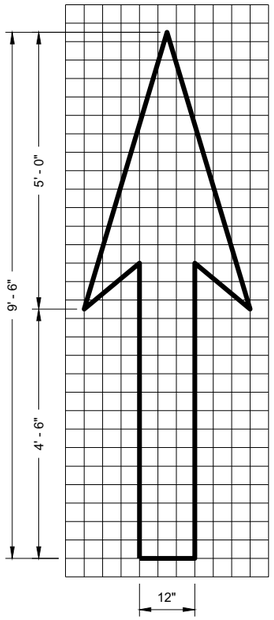
SDD 15C07 - 15b

6

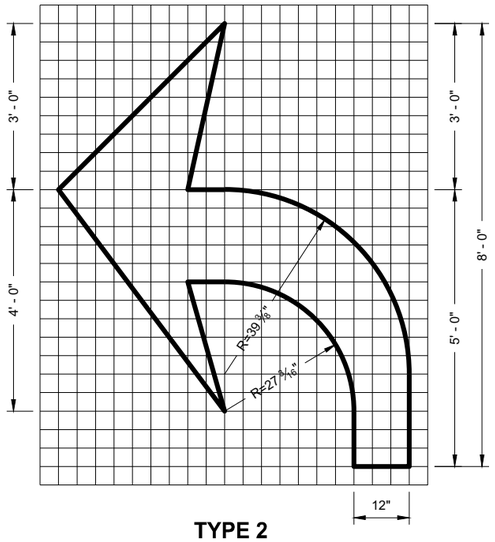
SDD 15C07 - 15b

GENERAL NOTES

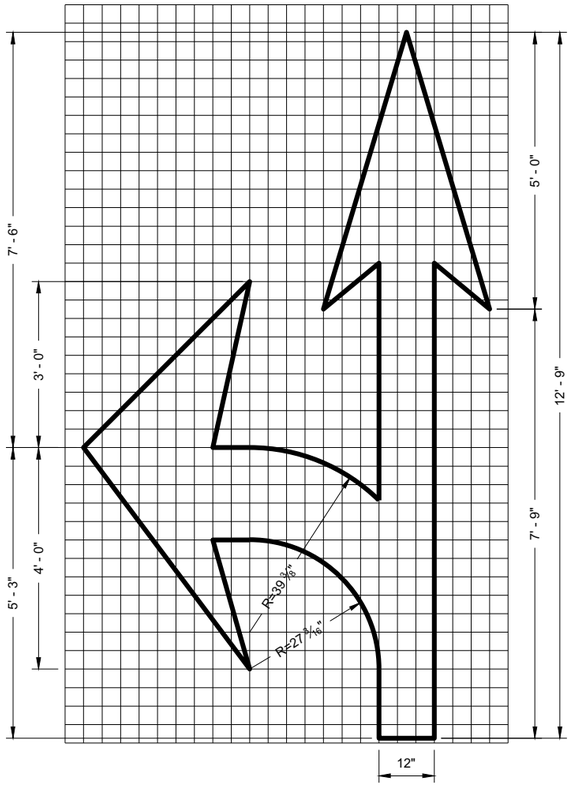
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



TYPE 1



TYPE 2



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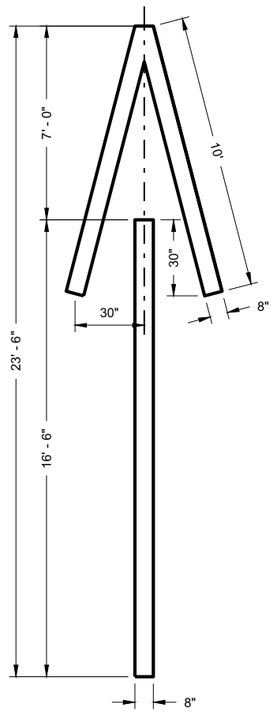
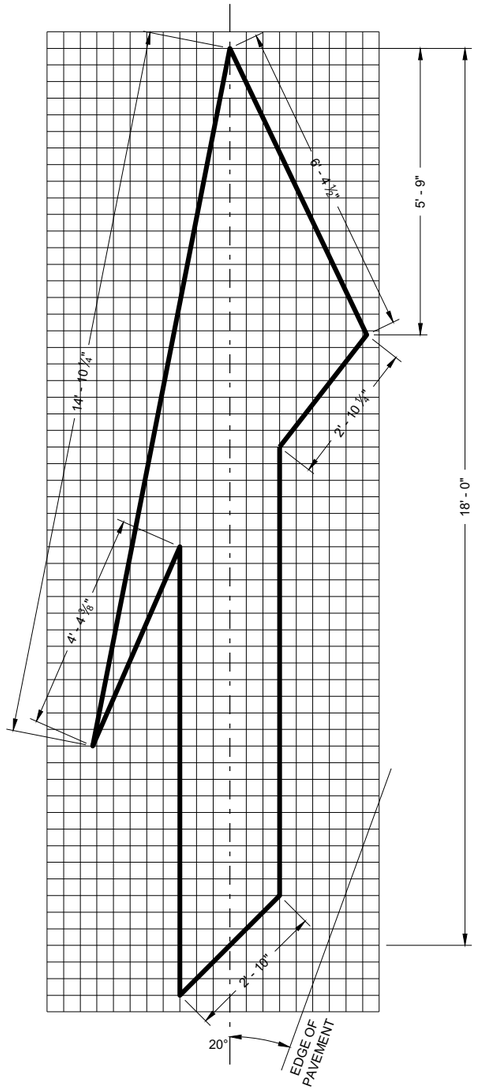
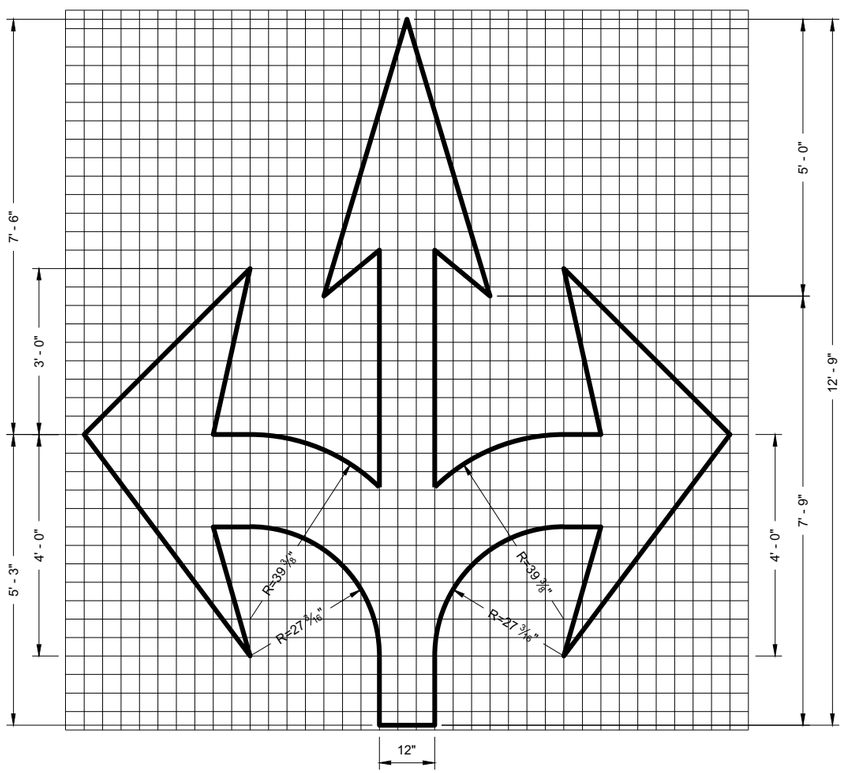


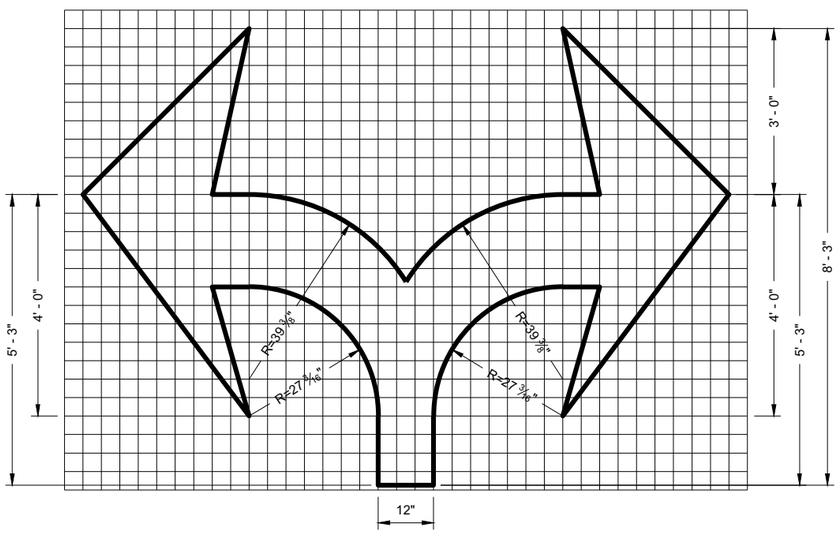
TYPE 4



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 MARKING ENGINEER

FHWA

6

SDD 15C07 - 15c

6

SDD 15C07 - 15c

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

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

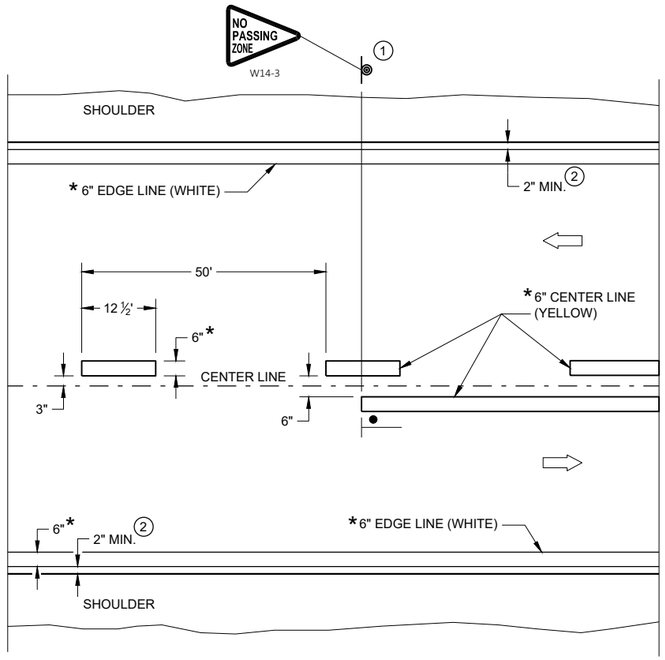
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

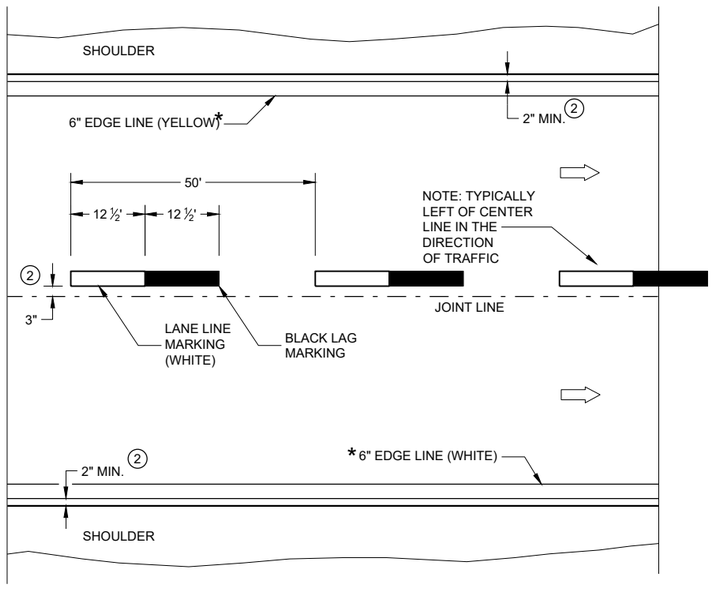
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

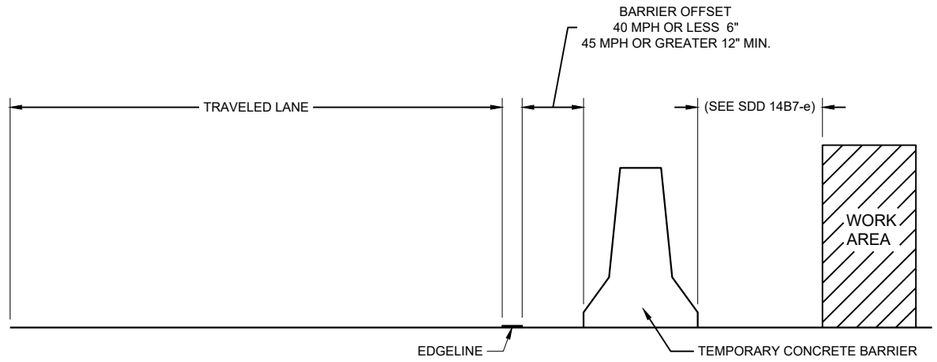
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

FHWA

6

SDD 15C08-23a



TEMPORARY BARRIER OFFSET FROM EDGELINE

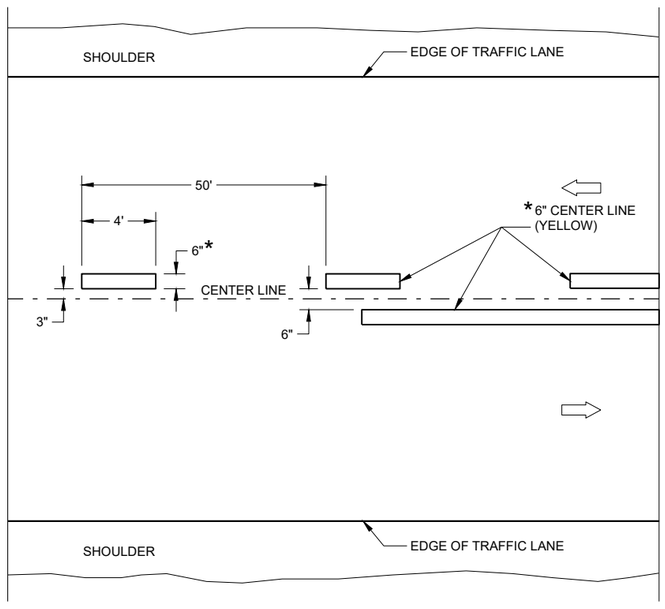
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

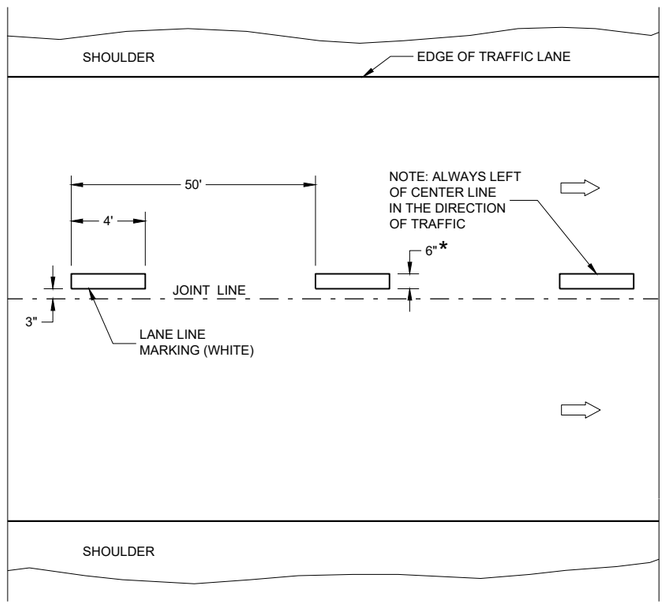
LEGEND

⇨ DIRECTION OF TRAFFIC

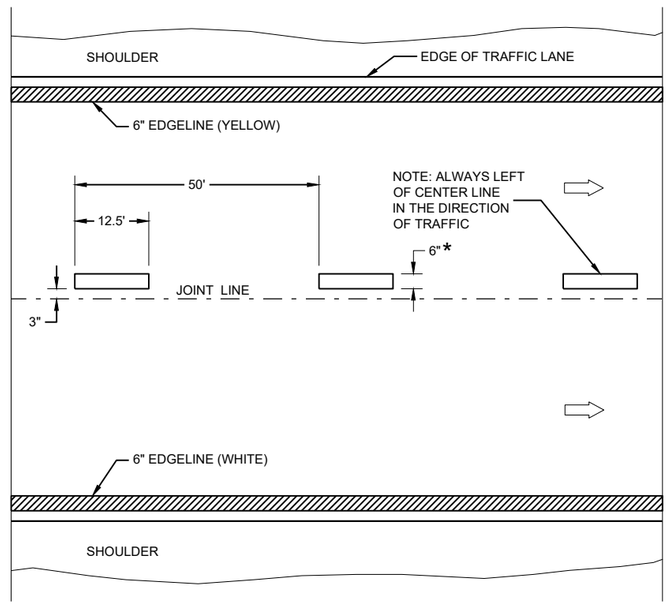
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
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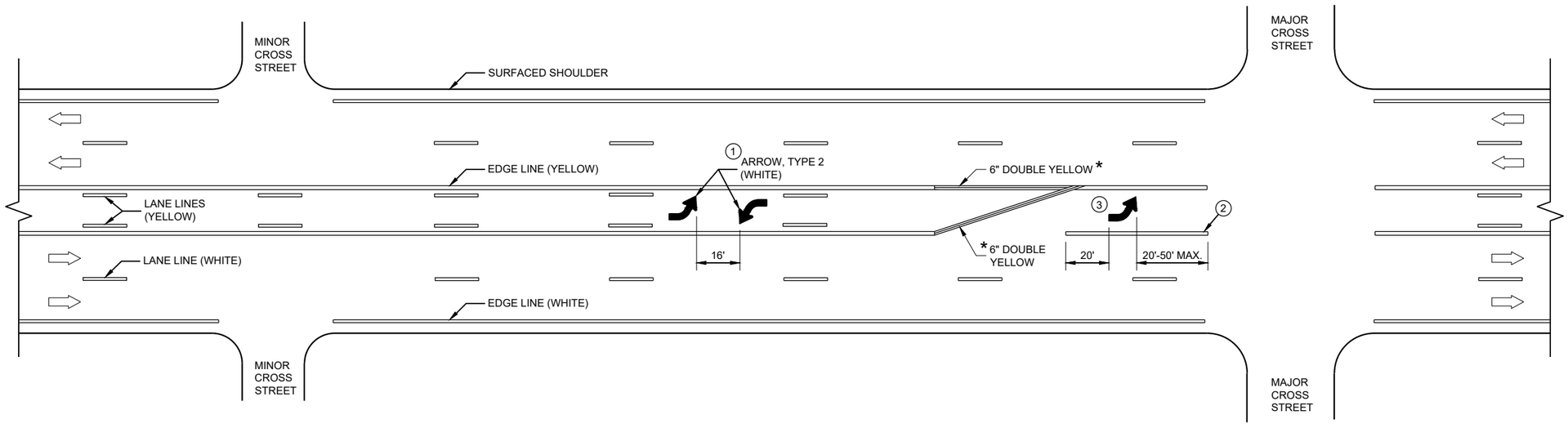
GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 10" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

⇨ DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY LEFT TURN LANE

6

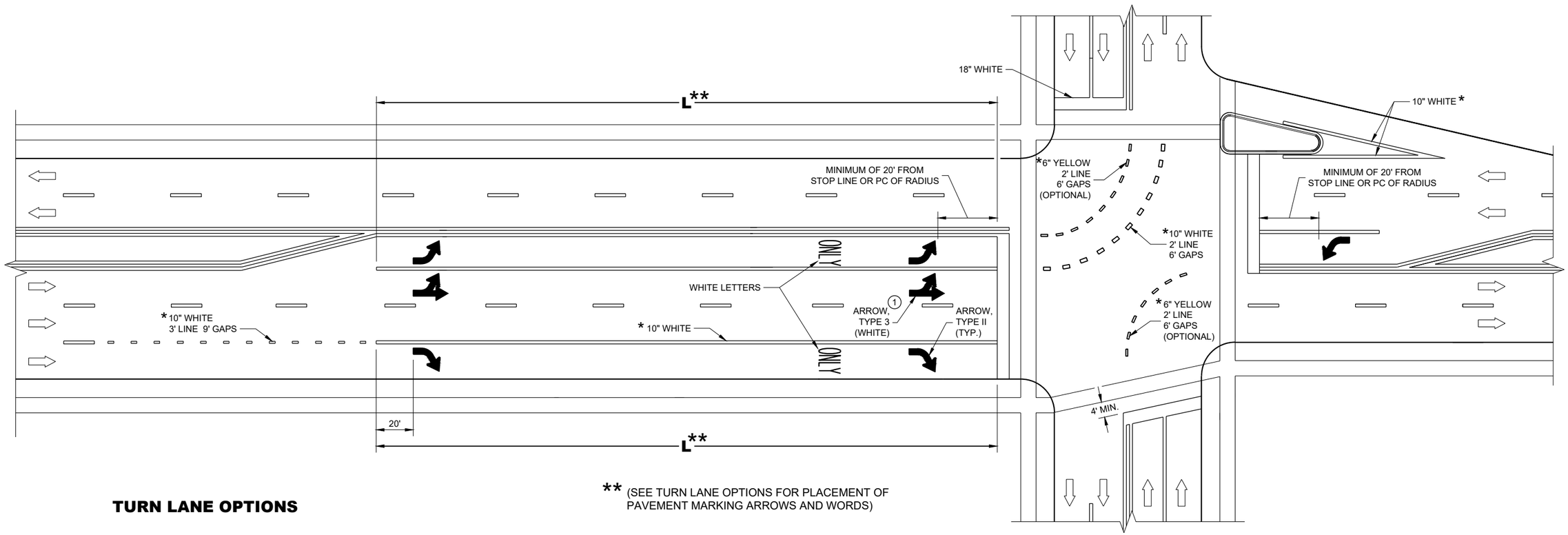
SDD 15C08-23c

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA· 159

6

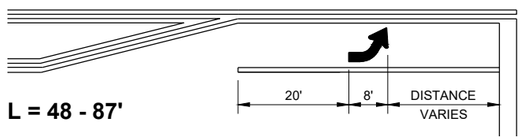
SDD 15C08-23c



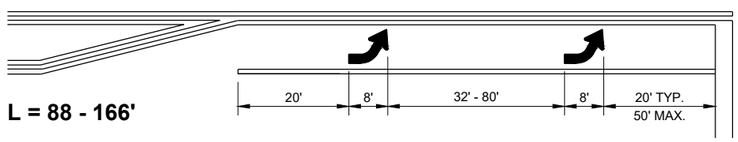
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

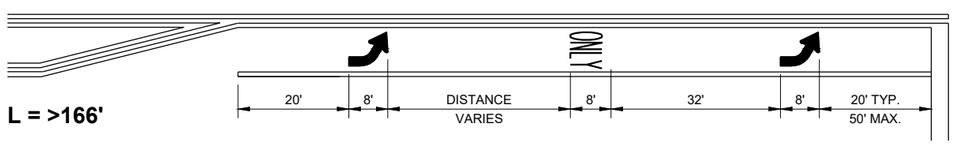
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

(1) 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

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

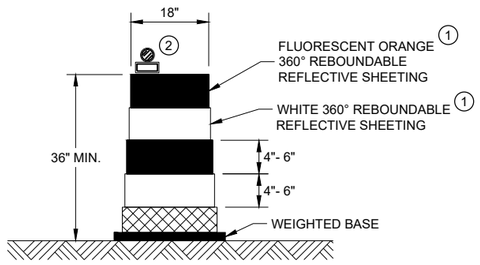
6

SDD 15C08-23d

SDD 15C08-23d

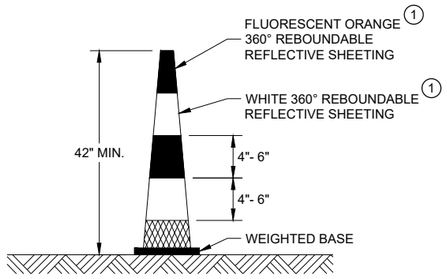
GENERAL NOTES

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

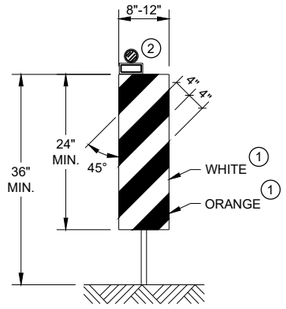
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

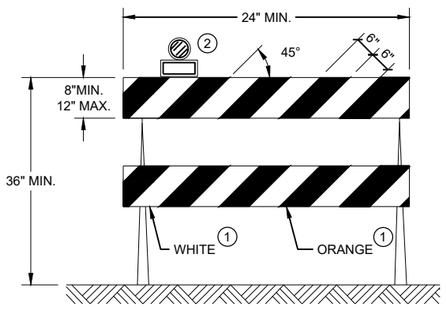
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



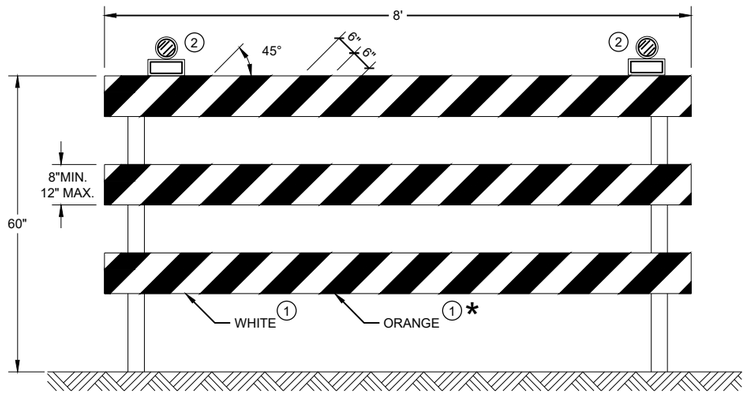
VERTICAL PANEL

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
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C11 - 10b

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SDD 15C11 - 10b

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.

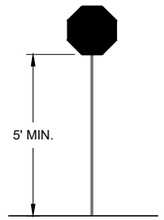
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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.



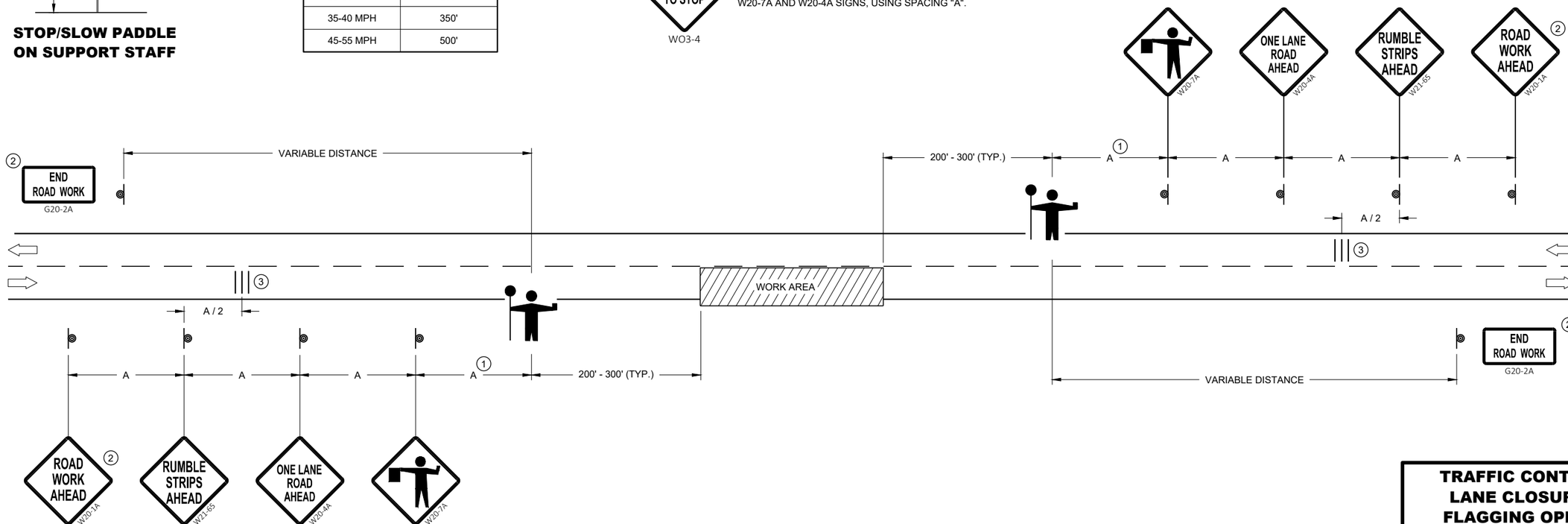
STOP/SLOW PADDLE ON SUPPORT STAFF

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
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15C12 - 09a

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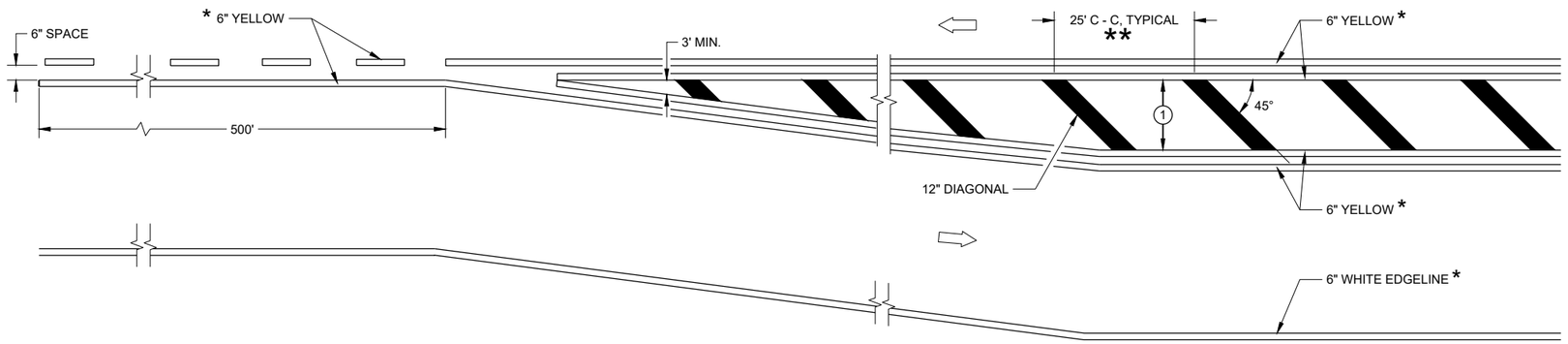


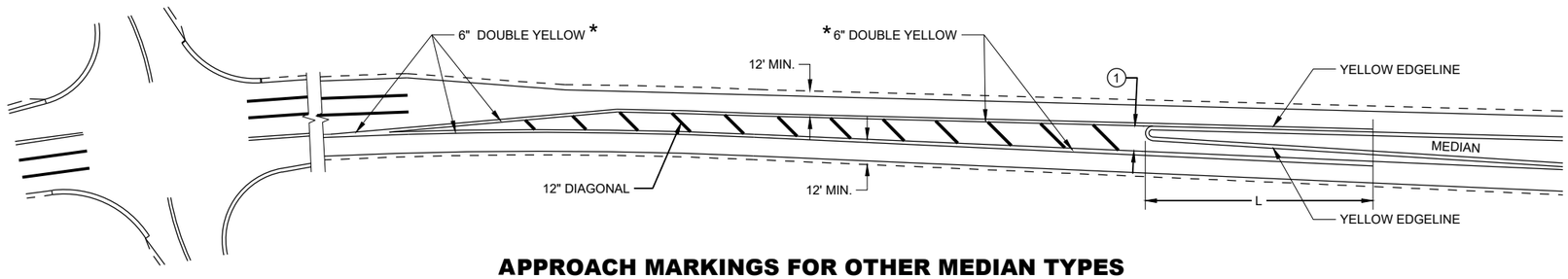
MEDIAN ISLAND DETAIL

GENERAL NOTES

(1) DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

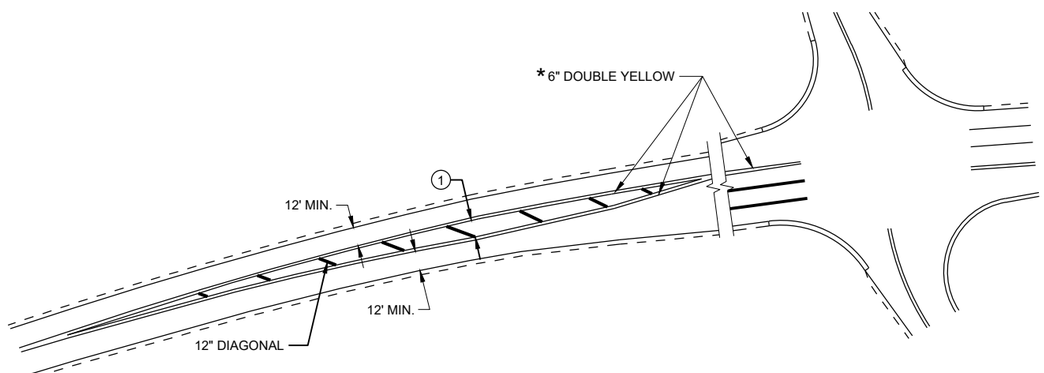
⇨ DIRECTION OF TRAVEL

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



APPROACH MARKINGS FOR OTHER MEDIAN TYPES

SPEED LIMIT	L
<35 MPH	5'
35> MPH	50'



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MAF ENGINEER
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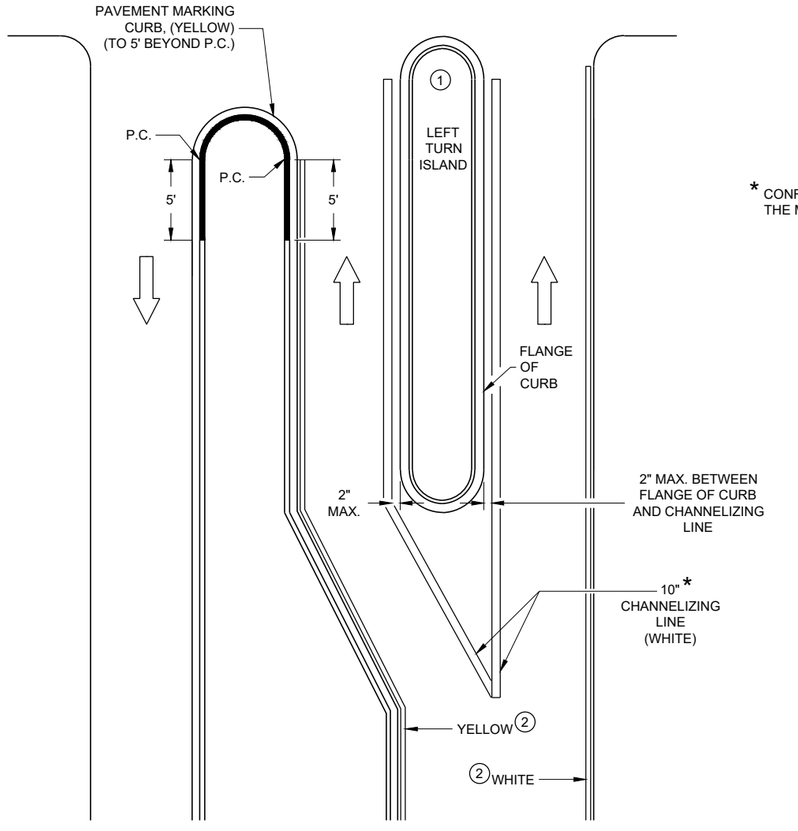
REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEFT TURN & MEDIAN ISLAND

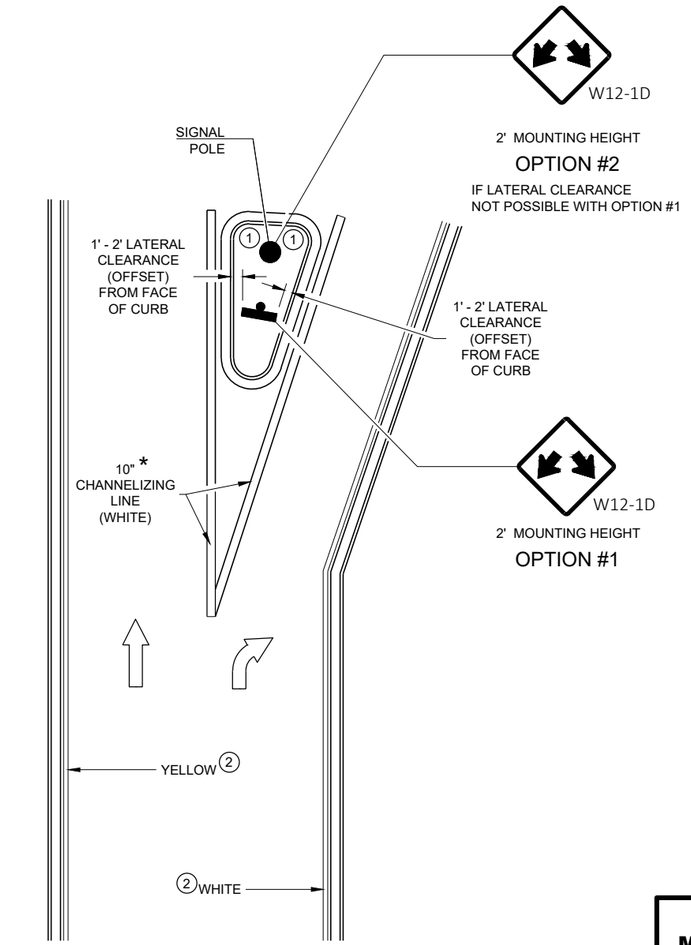
GENERAL NOTES

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

May 2023
DATE

/S/ Jeannie Silver
STATE SIGNING AND MAF
ENGINEER

FHWA

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SDD 15C18-08c

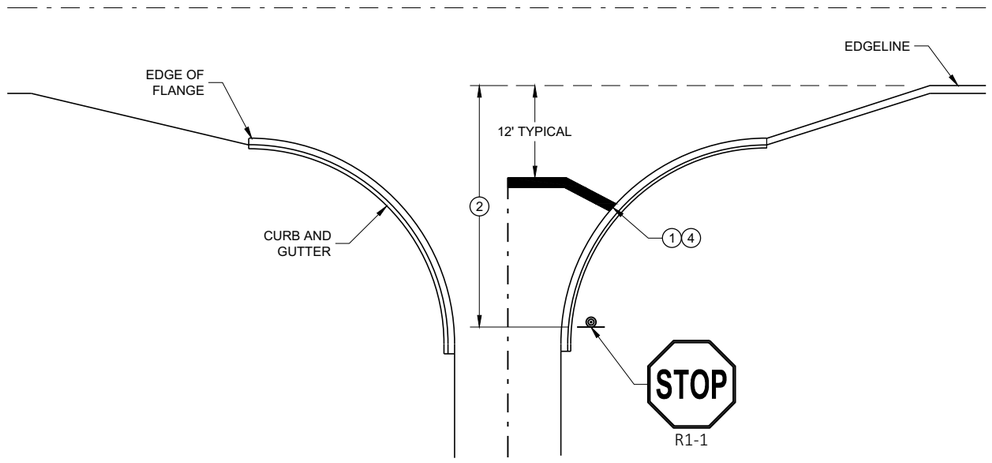
6

SDD 15C18-08c

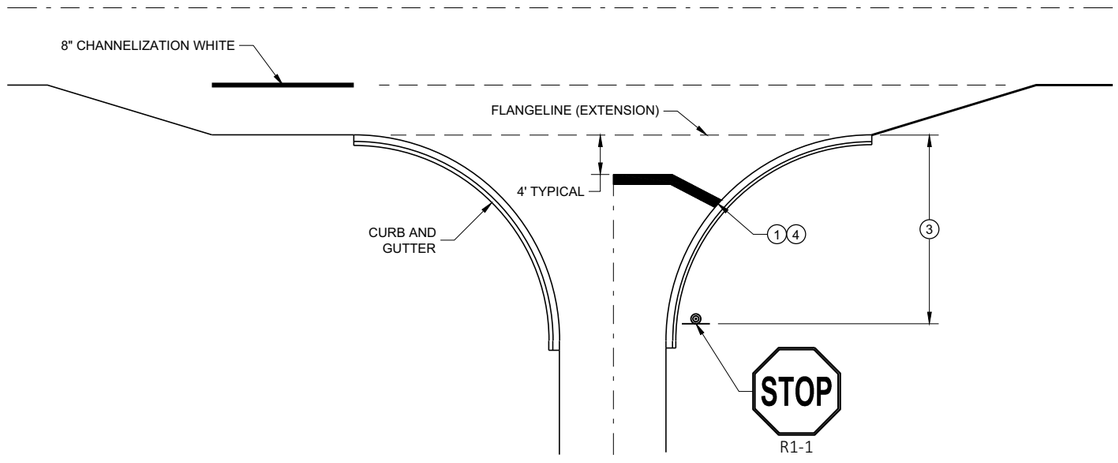
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

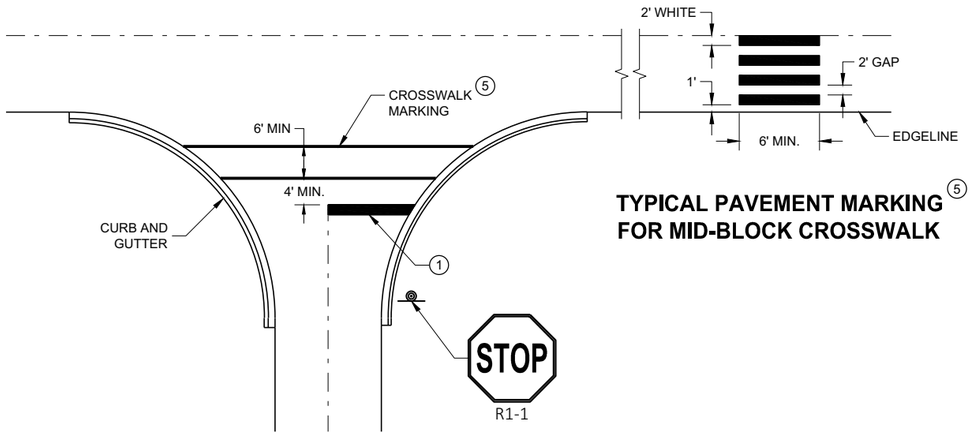
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE 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

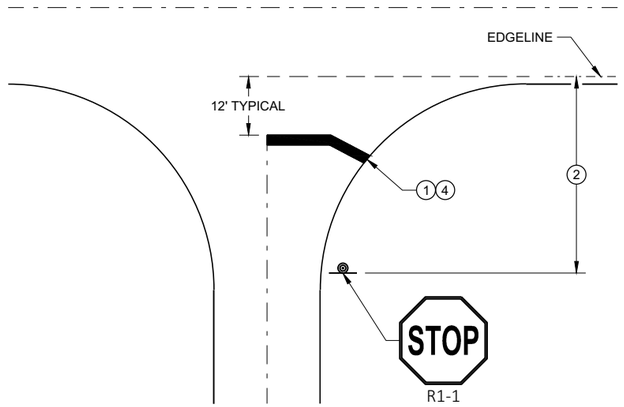


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
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DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

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SDD 15C33 - 04

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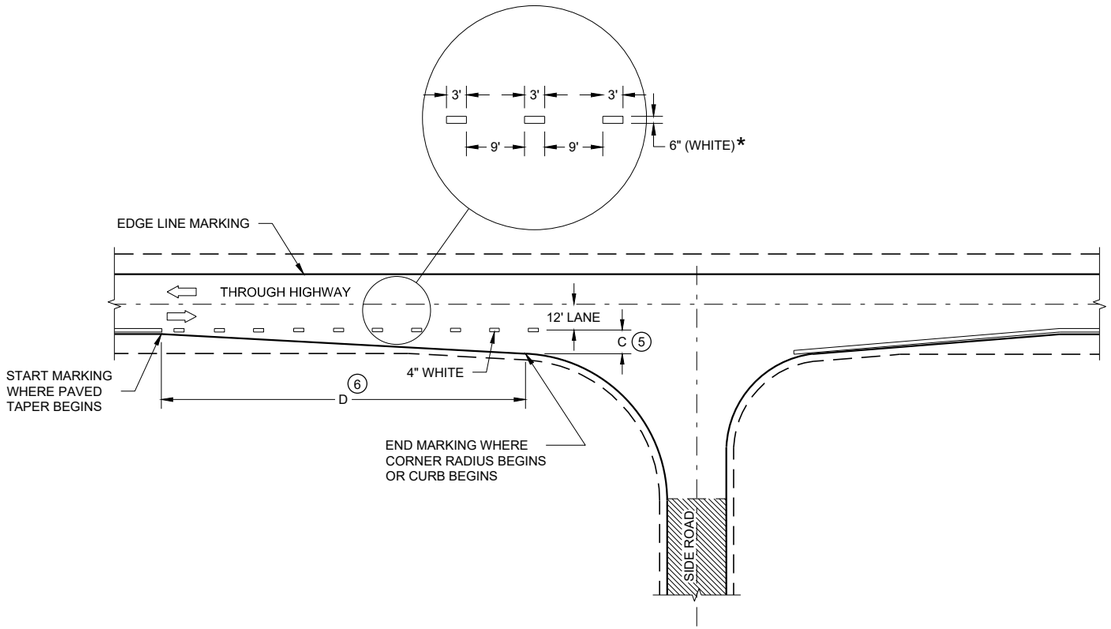
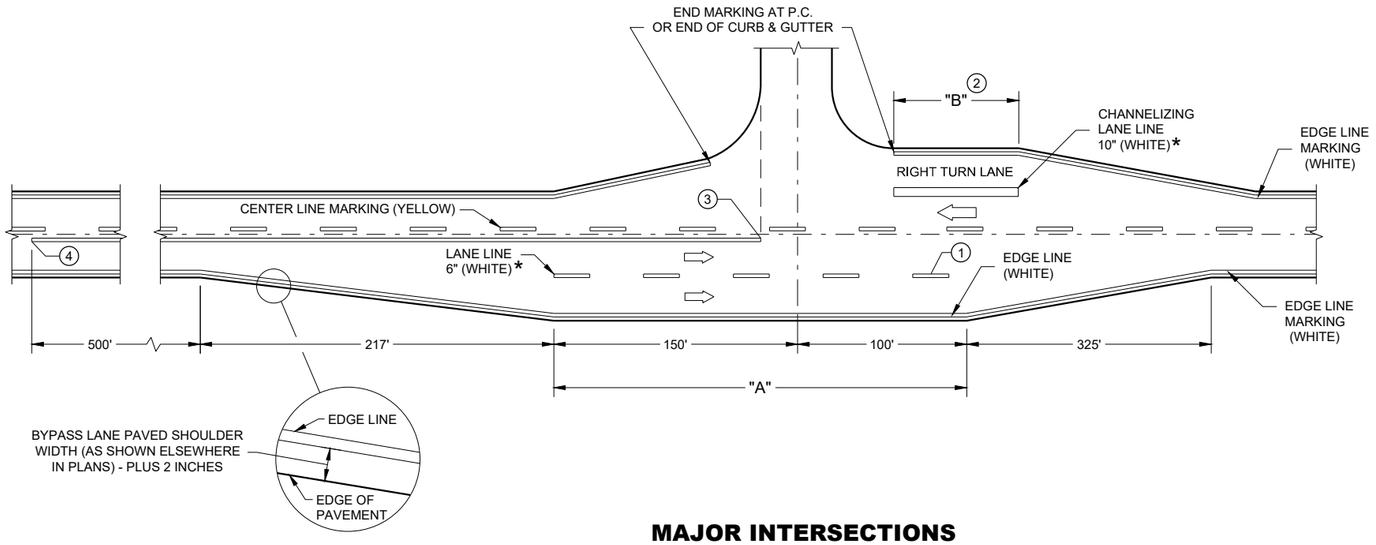
SDD 15C33 - 04



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

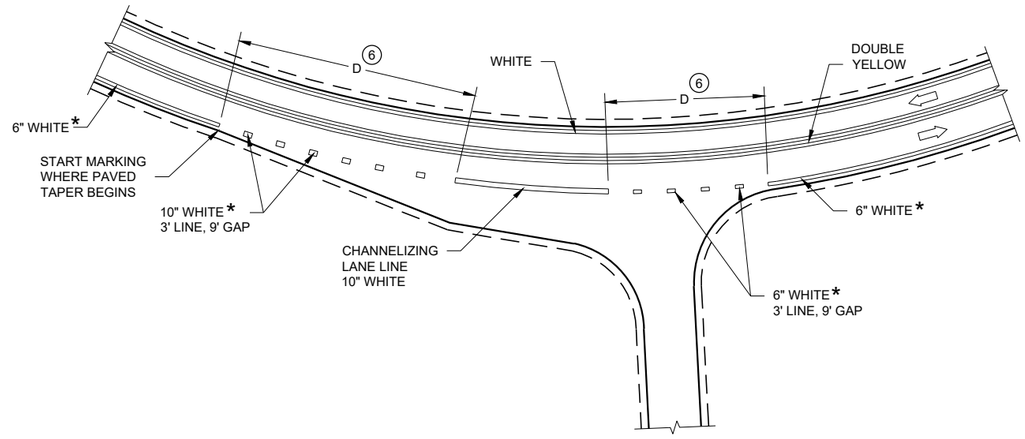
GENERAL NOTES

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.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

DIRECTION OF TRAVEL

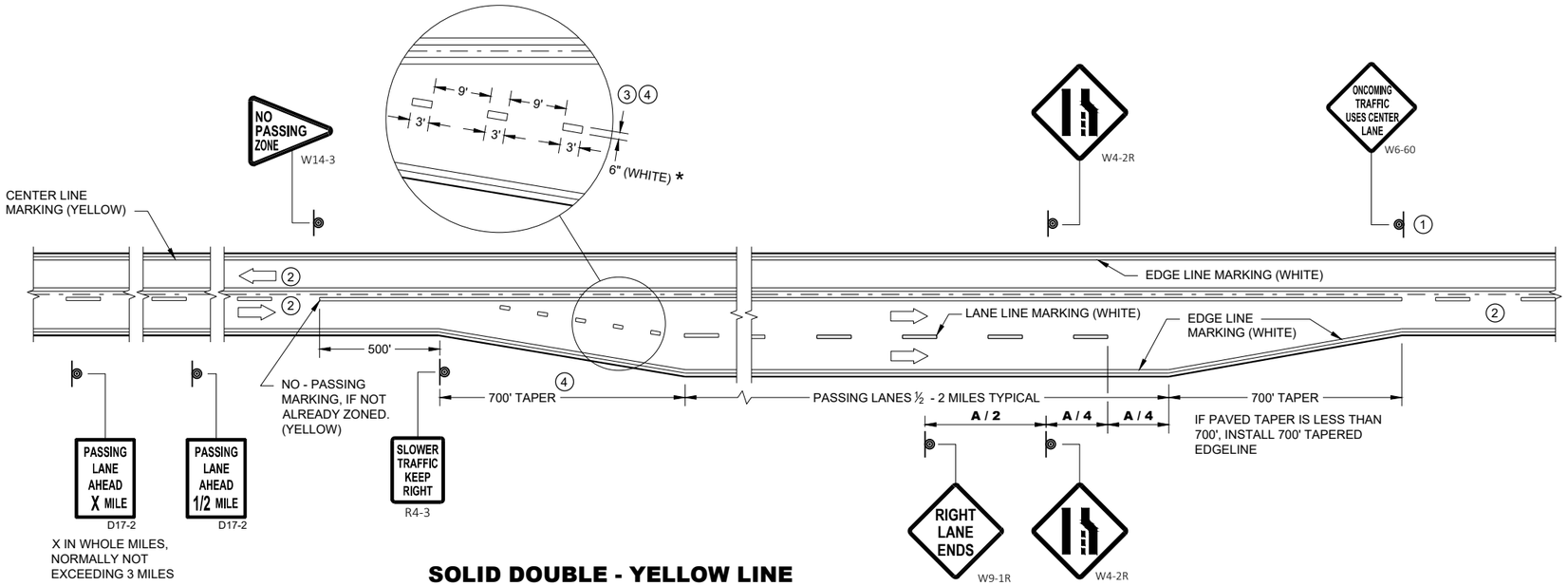


INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

SDD 15C35-06a

6



SOLID DOUBLE - YELLOW LINE
(THROUGHOUT ENTIRE PASSING / CLIMBING LANE)

GENERAL NOTES

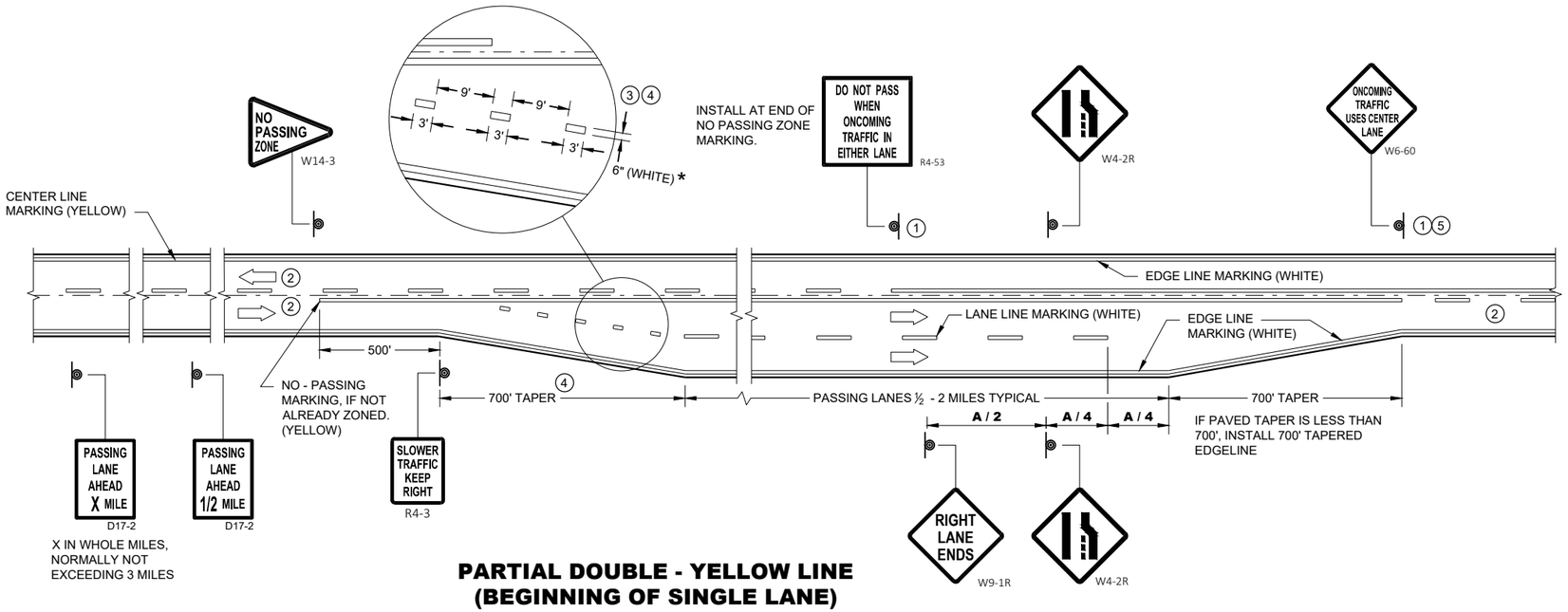
1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
5. REPEAT EVERY 1 MILE UP UNTIL R4-53.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

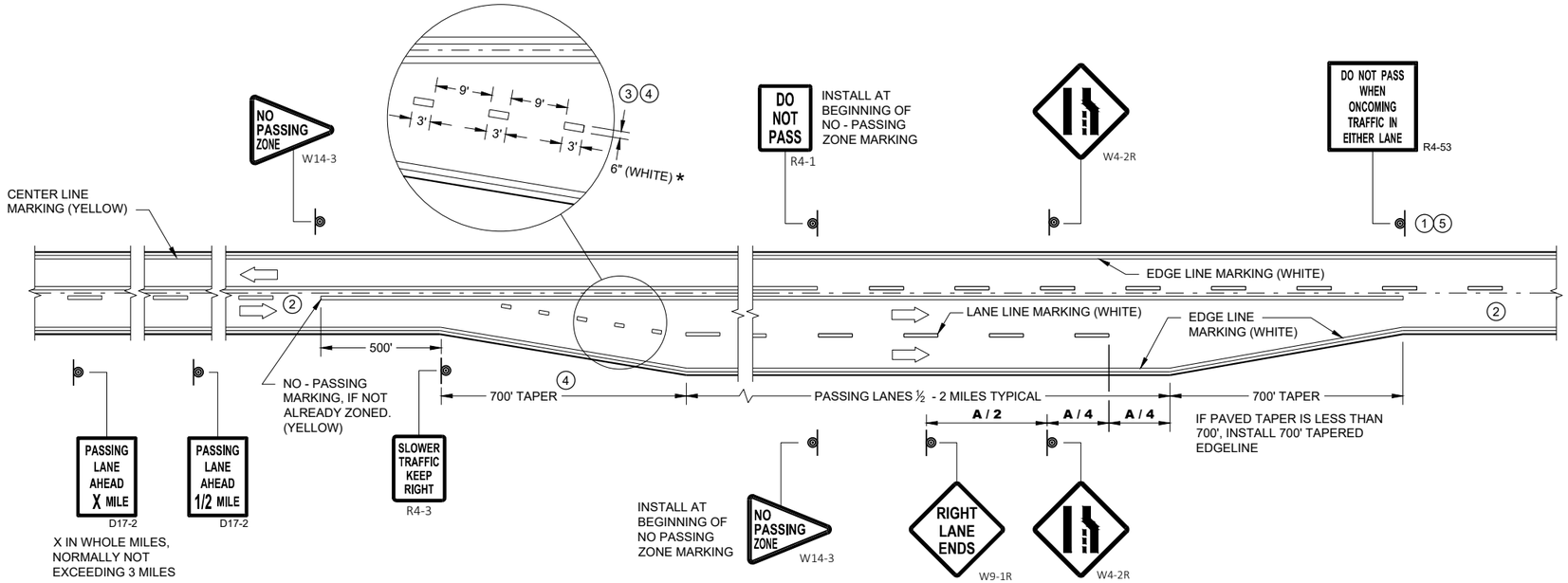
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



PARTIAL DOUBLE - YELLOW LINE
(BEGINNING OF SINGLE LANE)

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

6
SDD 15C35-06b



SOLID DOUBLE - YELLOW LINE
(END OF SINGLE LANE)

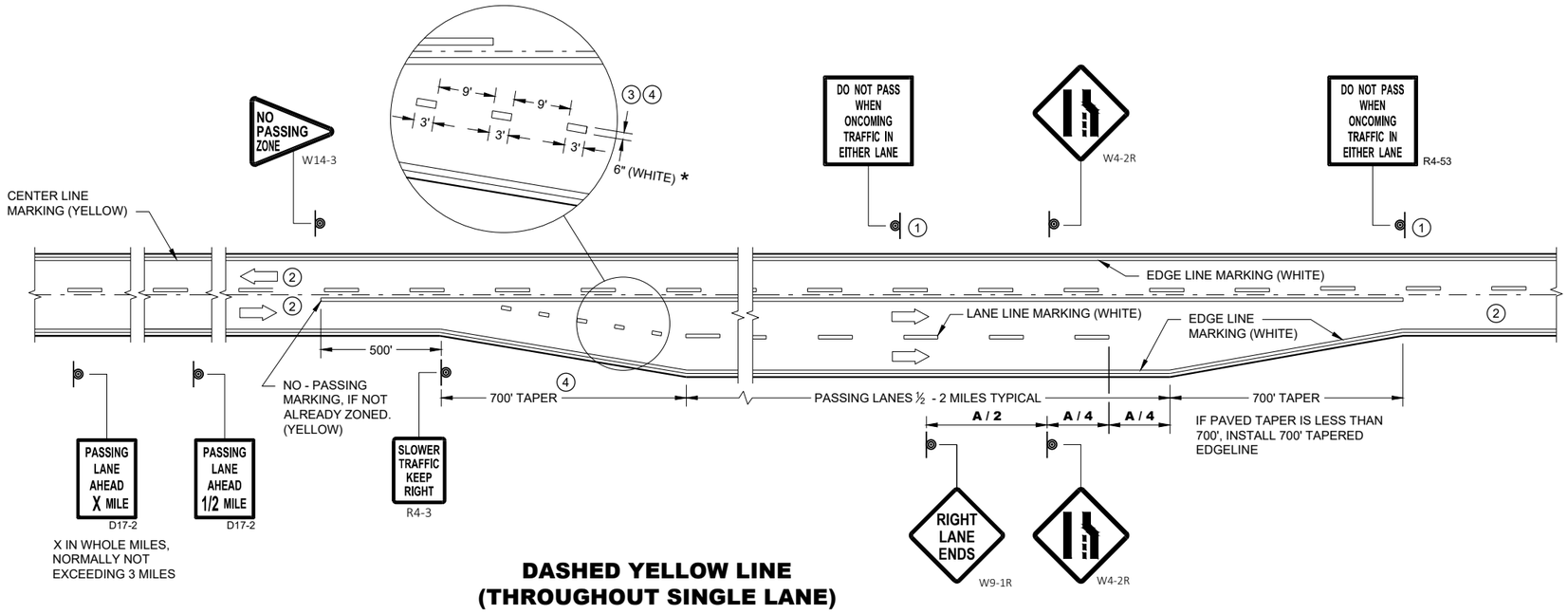
GENERAL NOTES

1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
5. REPEAT EVERY ONE MILE UP UNTIL NO PASSING ZONE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990



DASHED YELLOW LINE
(THROUGHOUT SINGLE LANE)

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

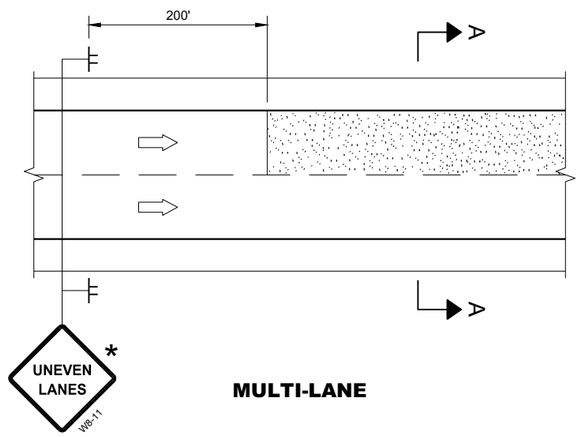
APPROVED
May 2023 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MAI ENGINEER
FHWA

6

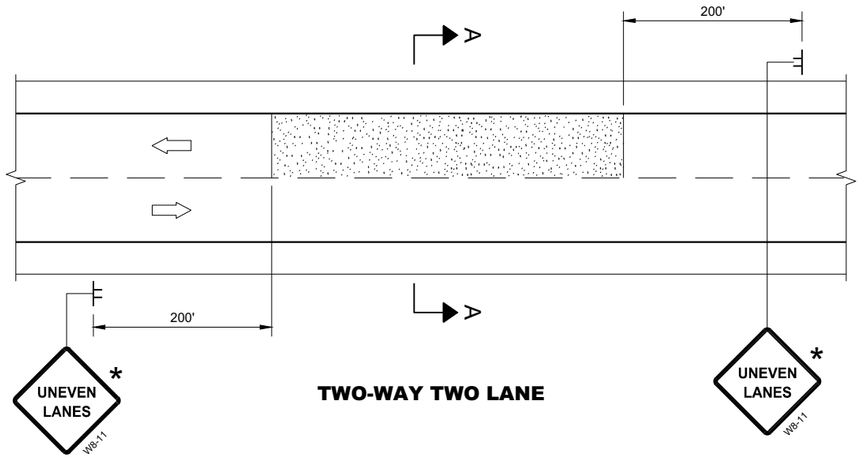
SDD 15C35-06c

6

SDD 15C35-06c



MULTI-LANE



TWO-WAY TWO LANE

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

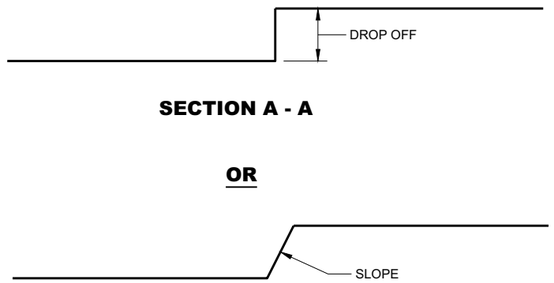
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

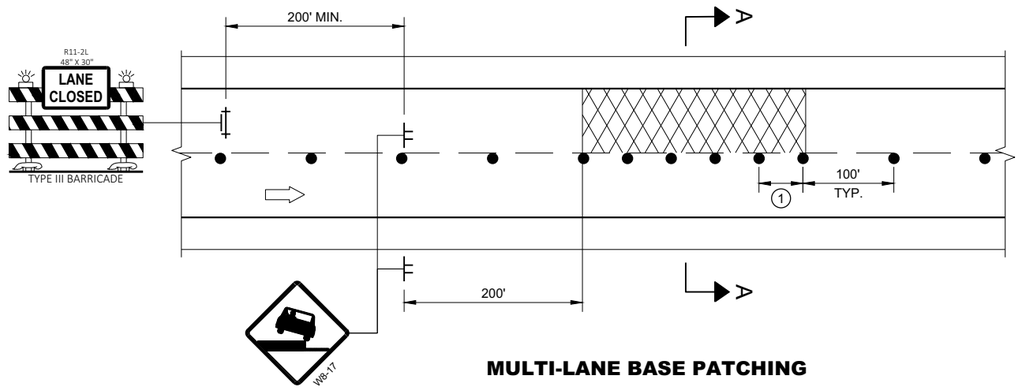
LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE



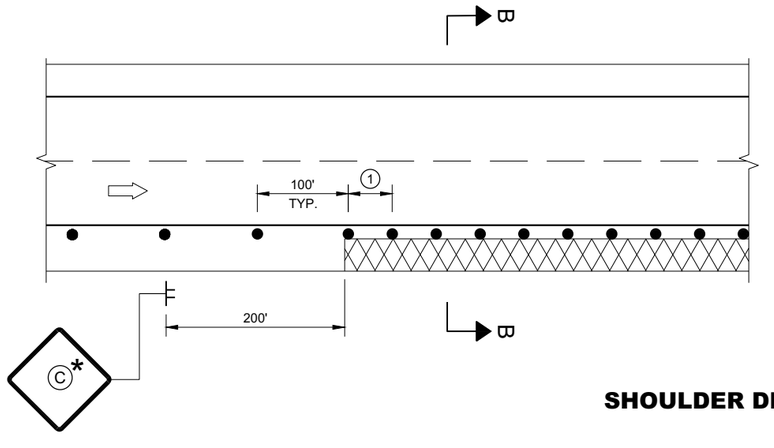
SECTION A - A

SECTION A - A

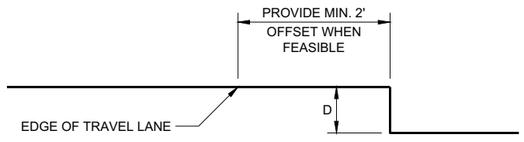


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6
SDD 15D39 - 02

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)
- CONCRETE BARRIER TEMPORARY PRECAST

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

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.

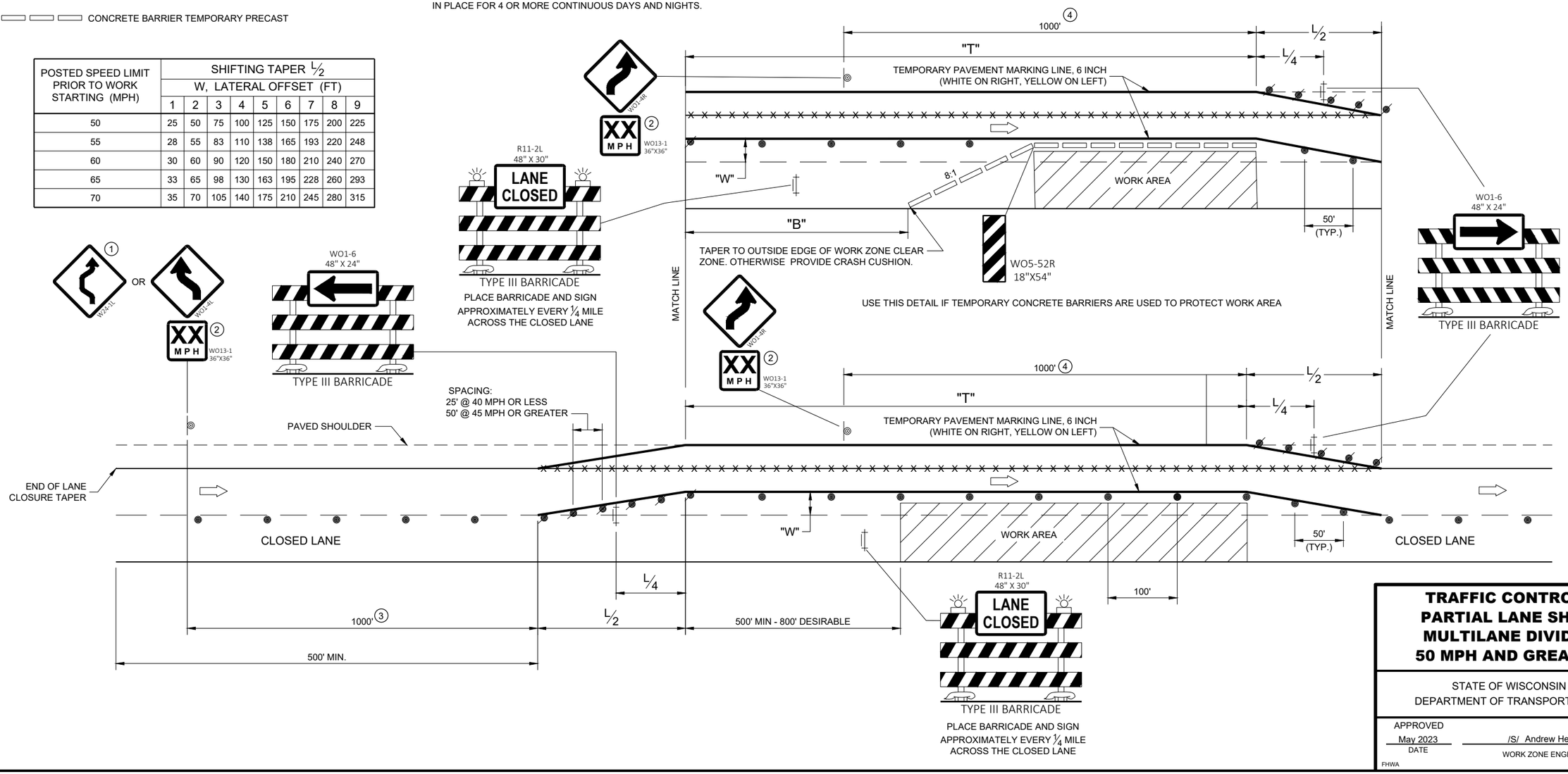
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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.
3. IF THE BEGINNING OF LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.
4. IF THE BEGINNING OF THE SECOND LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF THE FIRST LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE FIRST LANE CLOSURE TAPER.



TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D40-05d

6

SDD 15D40-05d

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.

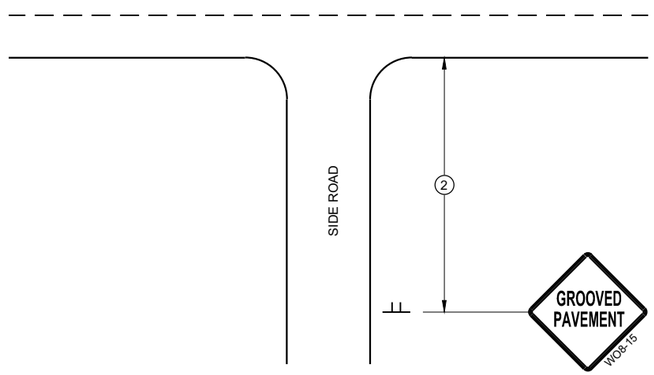
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

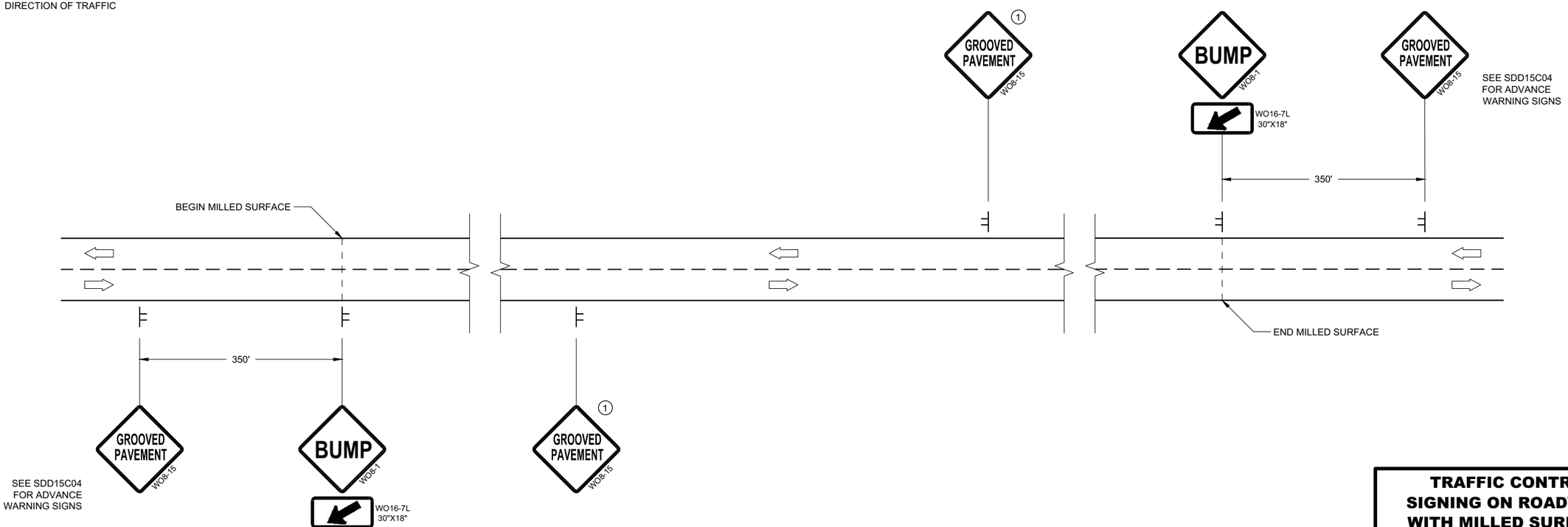
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D44 - 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.

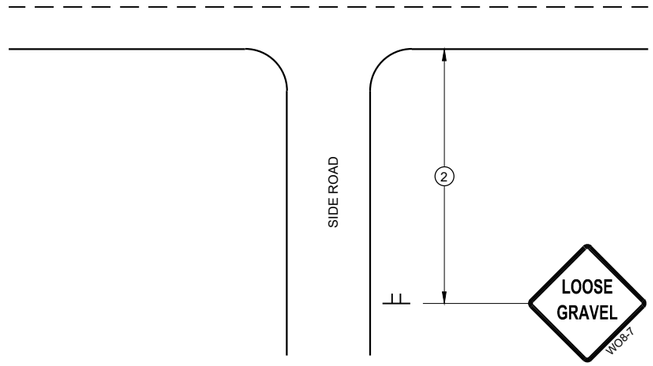
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

(3) ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

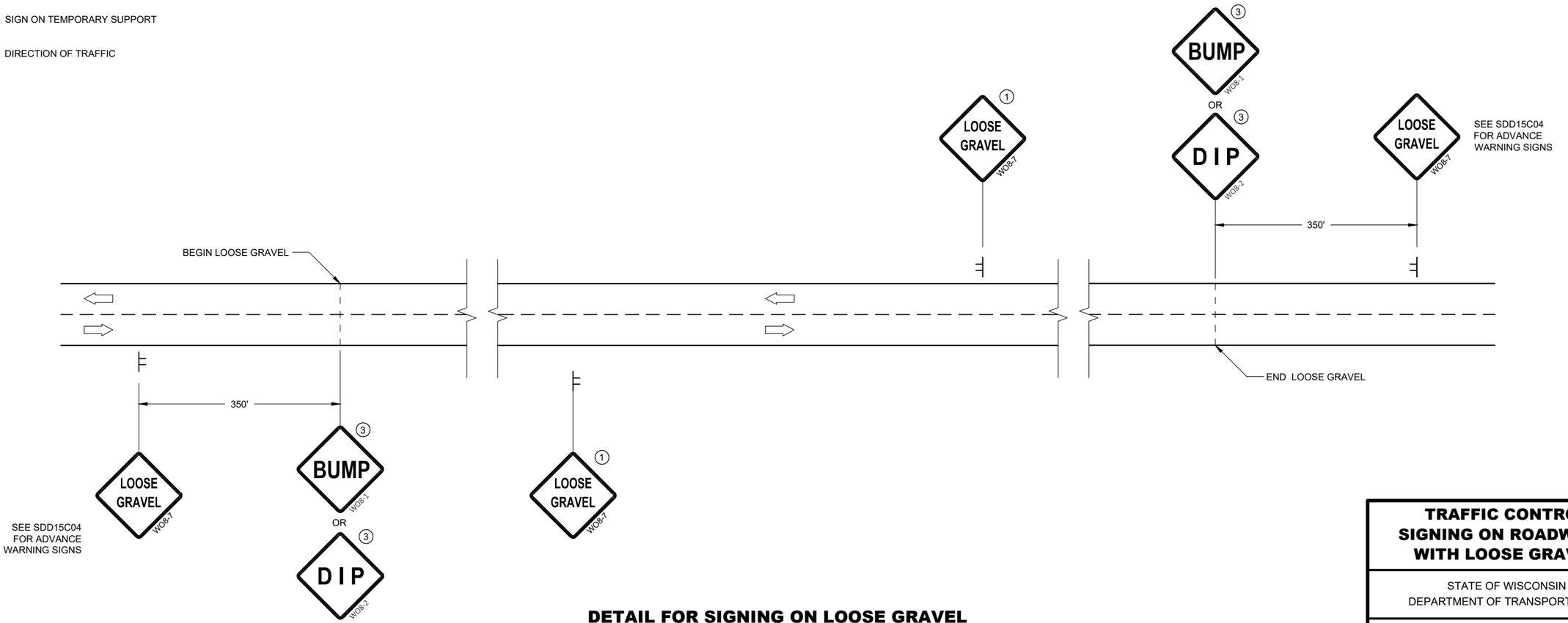
LEGEND

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

FHWA

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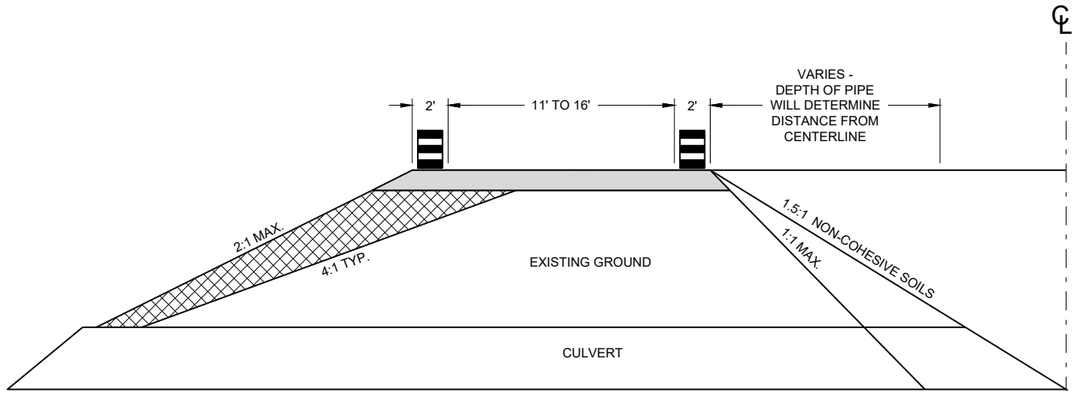
SDD 15D45 - 03



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.

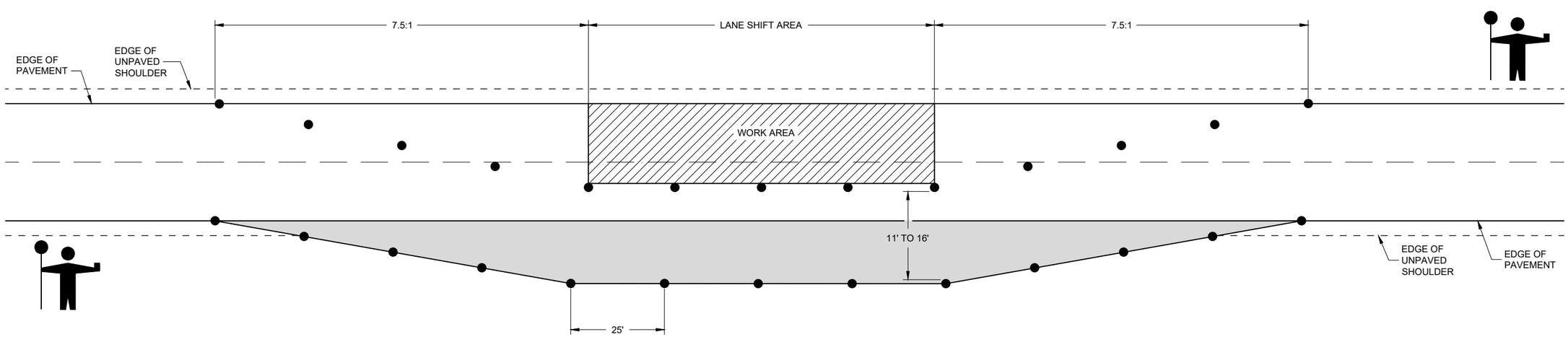
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

FHWA

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SDD 15D48 - 01

6

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.

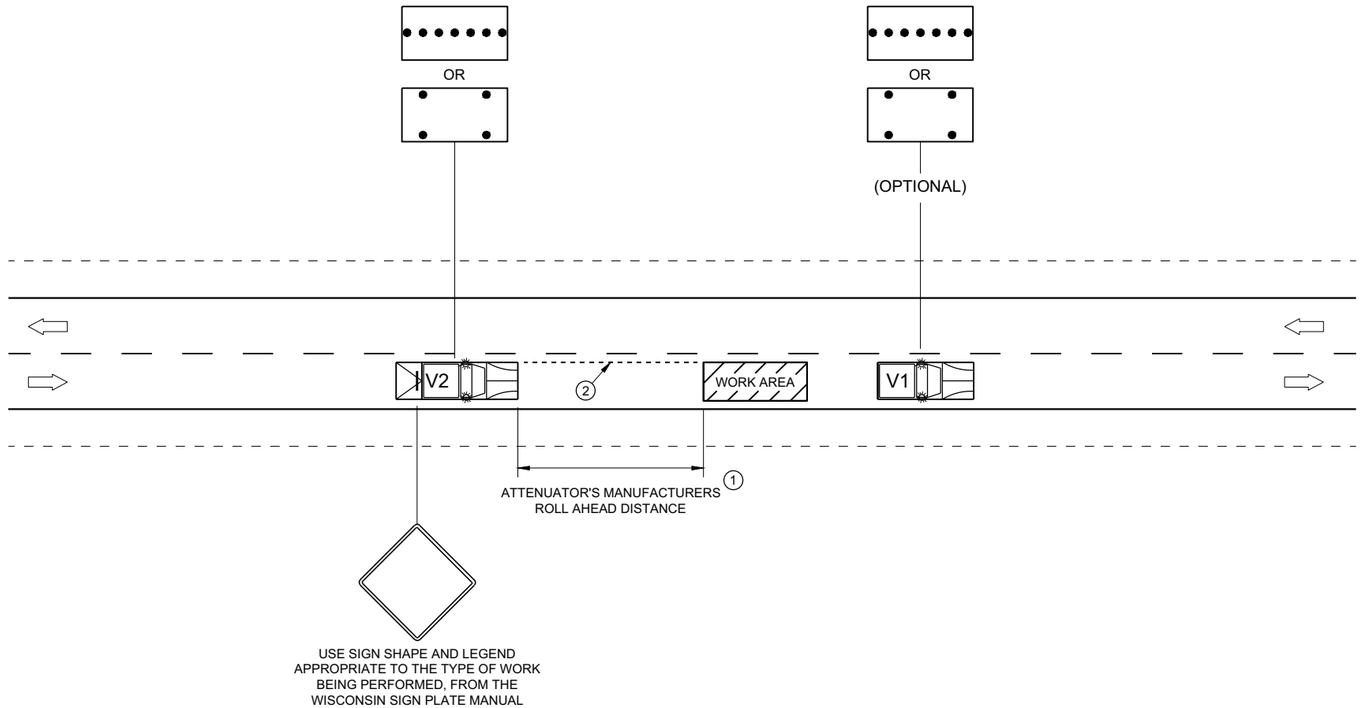
ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

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.



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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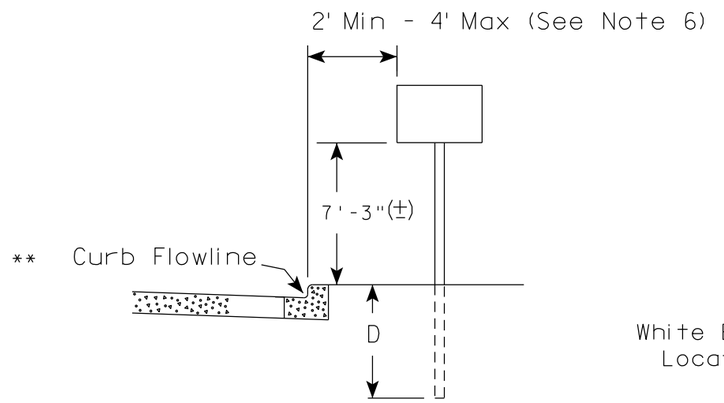
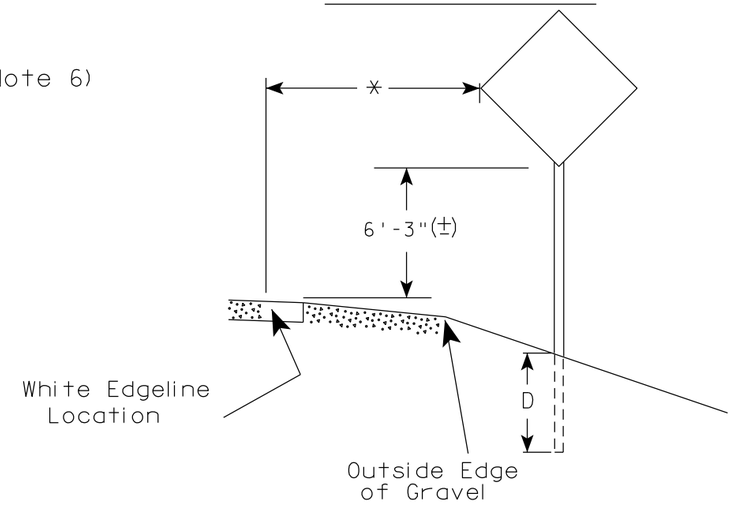
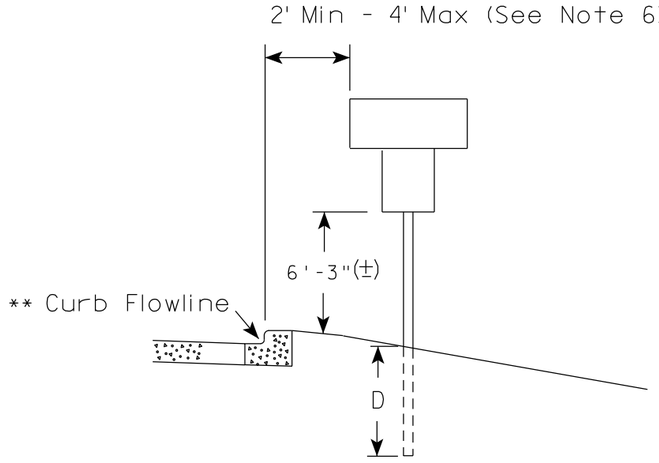
SDD 15D51 - 01

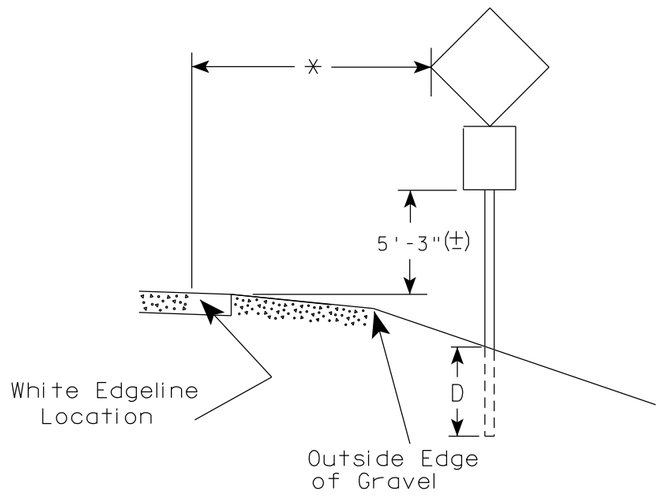
URBAN AREA



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.

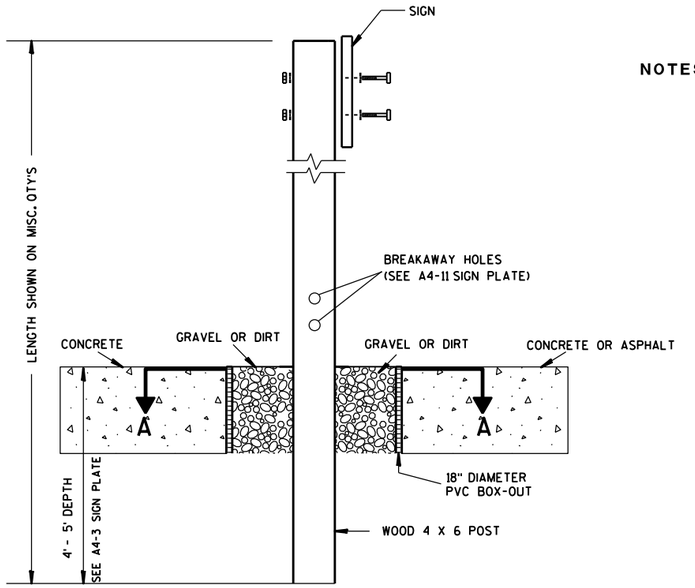
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

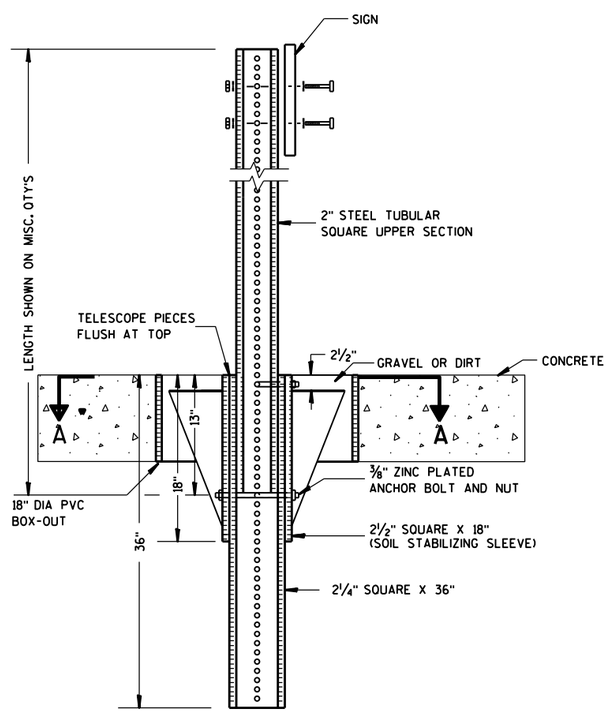
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 175	E



ELEVATION VIEW

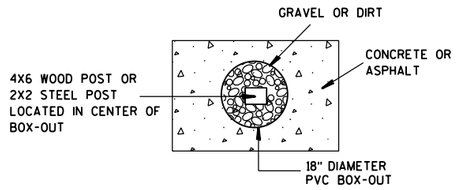
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

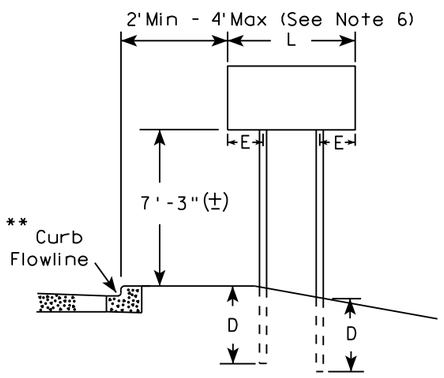
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

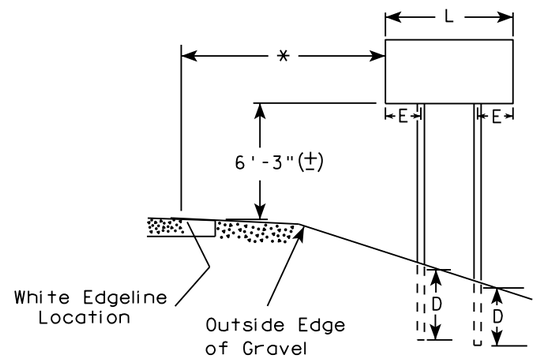
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

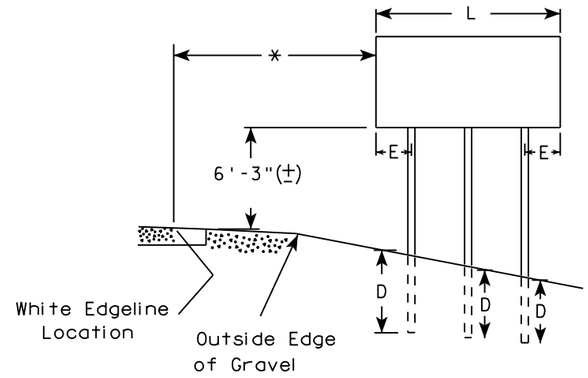
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

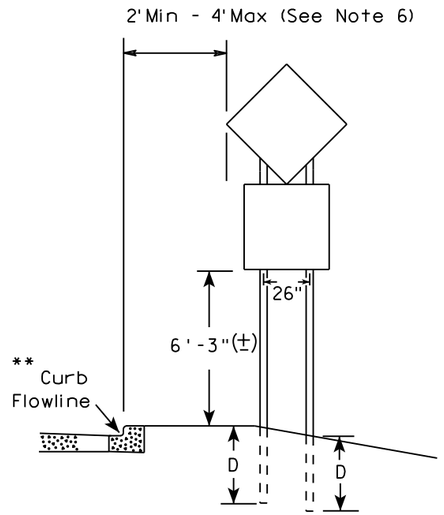
URBAN AREA



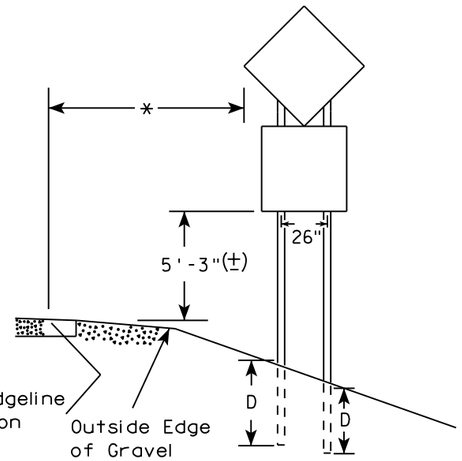
RURAL AREA (See Note 3)







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'

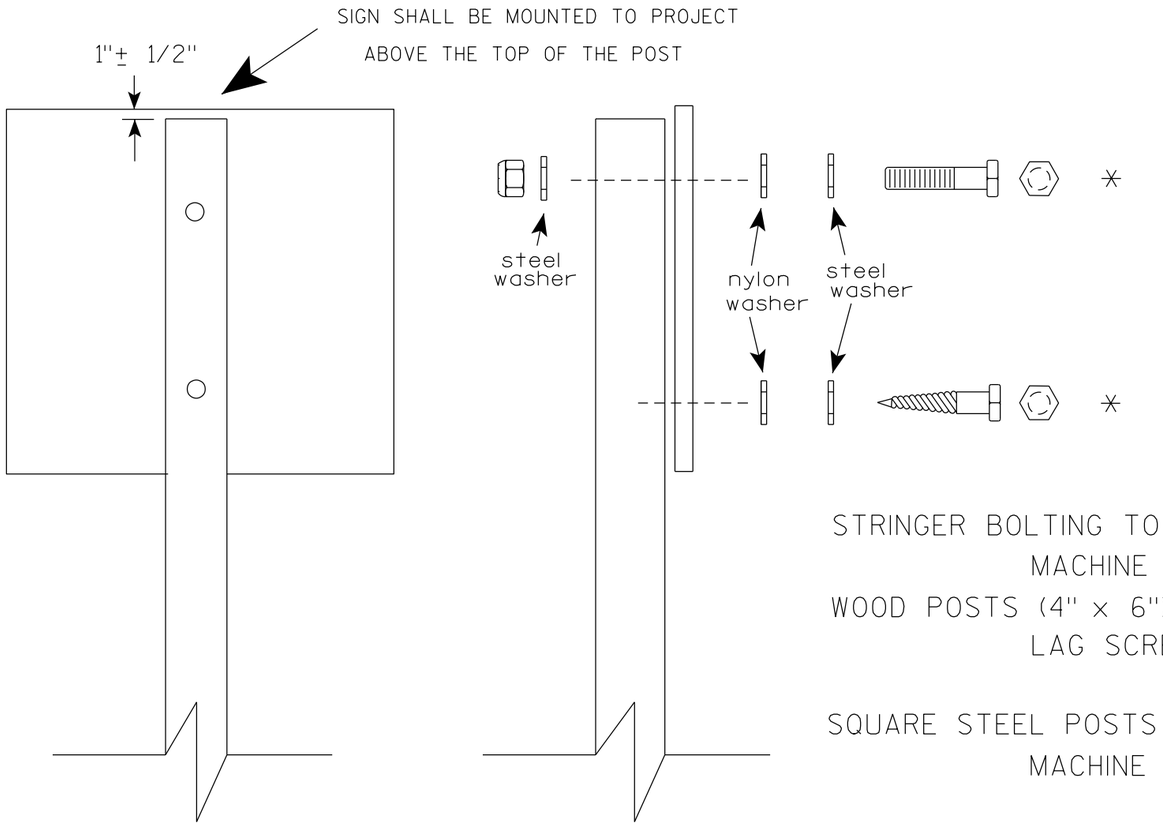
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 177	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

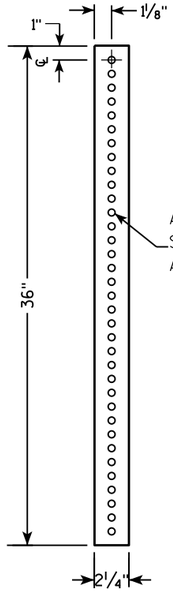
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

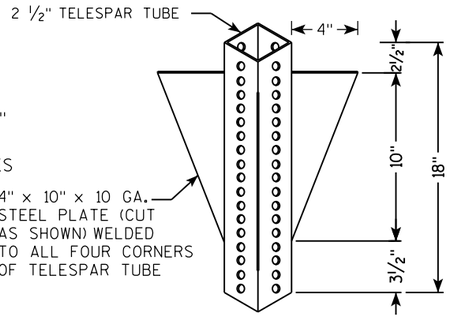
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

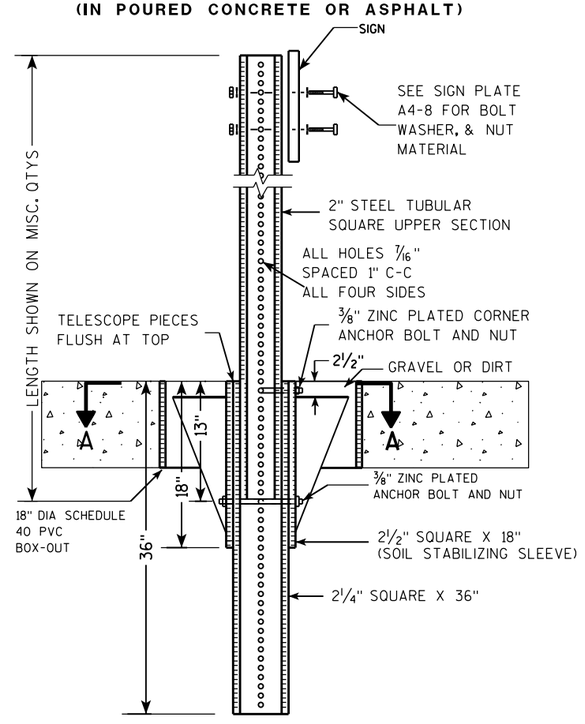
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



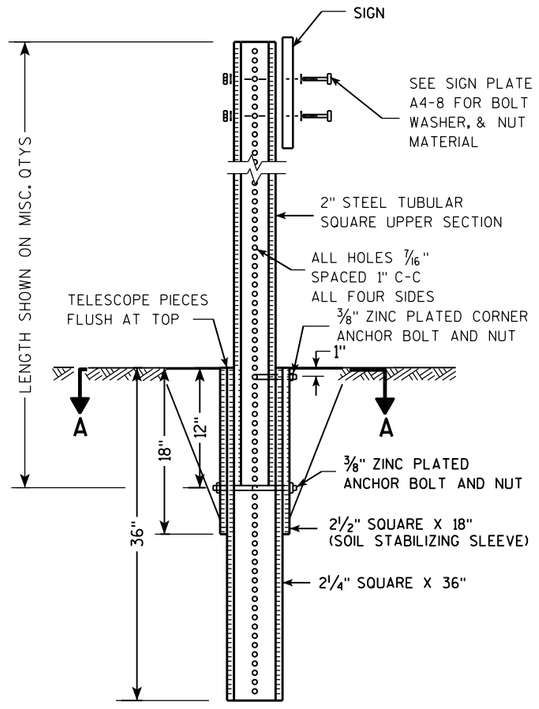
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

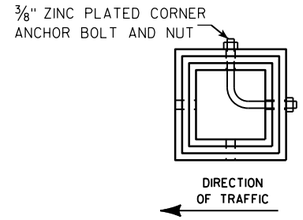


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

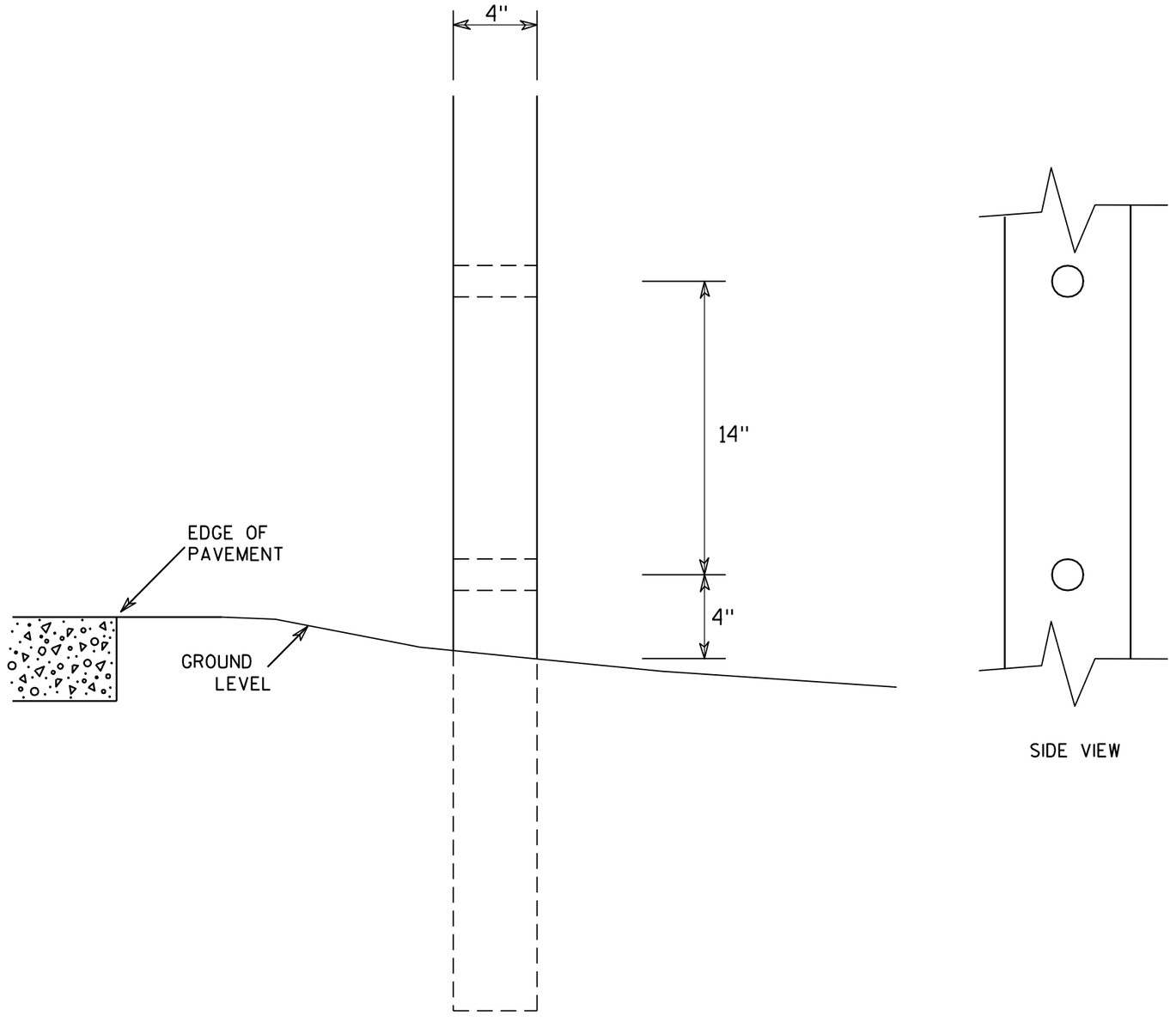
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 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.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

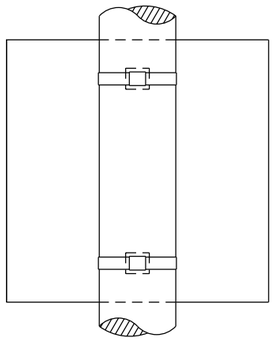
APPROVED Chester J Spang for State Traffic Engineer

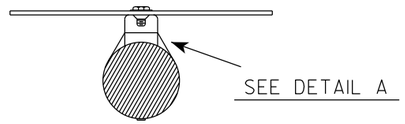
DATE 3/27/97 PLATE NO. A4-11.2

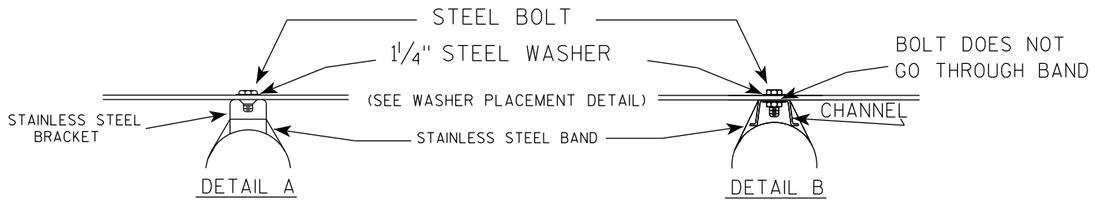
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 180	E

BANDING

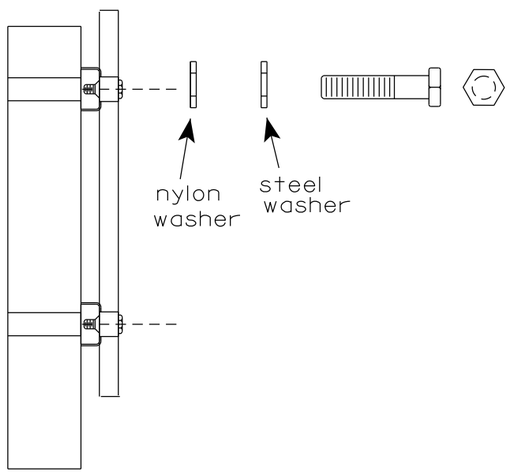
SINGLE SIGN







WASHER PLACEMENT

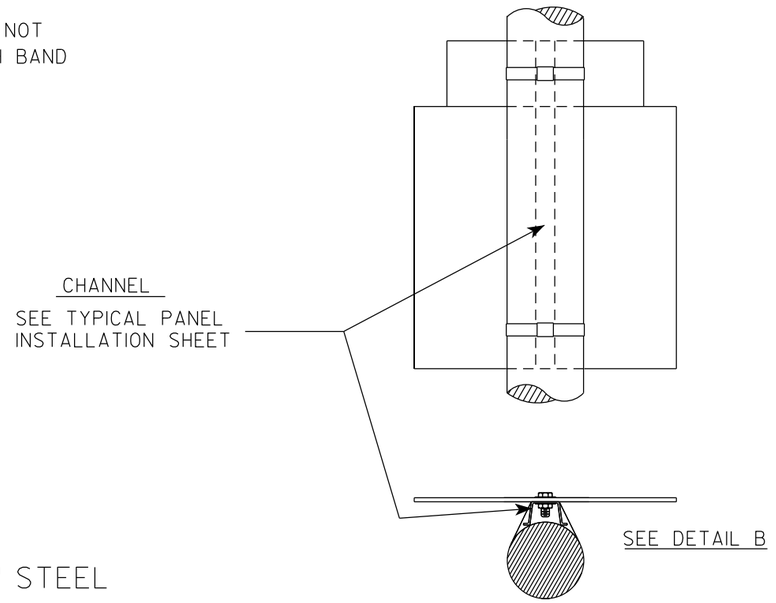


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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

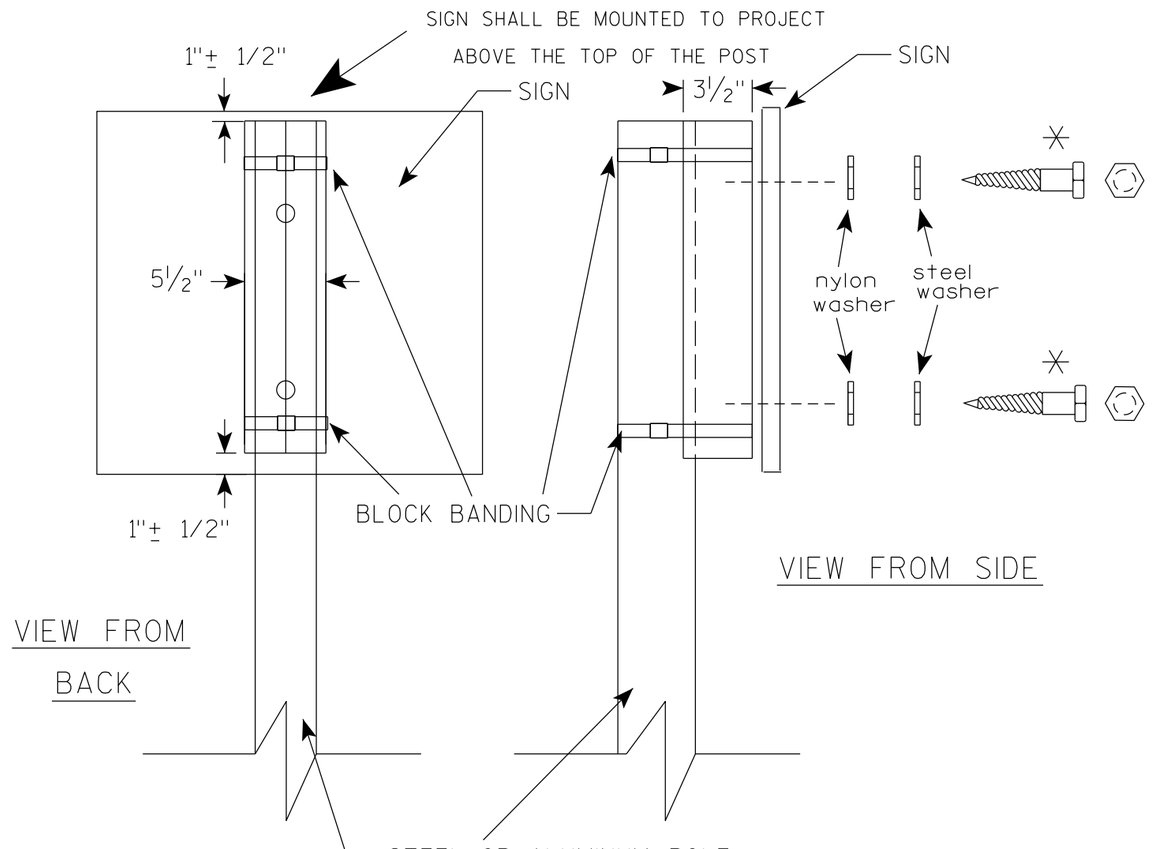
DATE 6/10/19 PLATE NO. A5-9.4

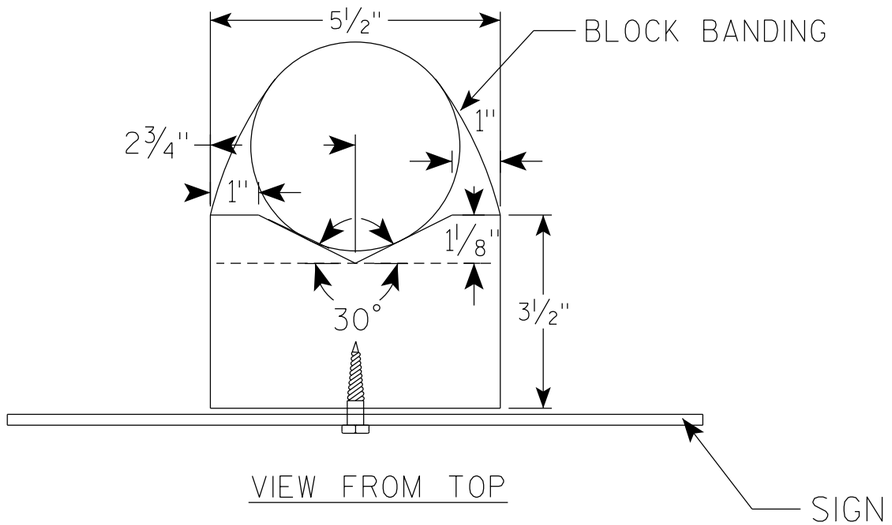
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 181	E

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)

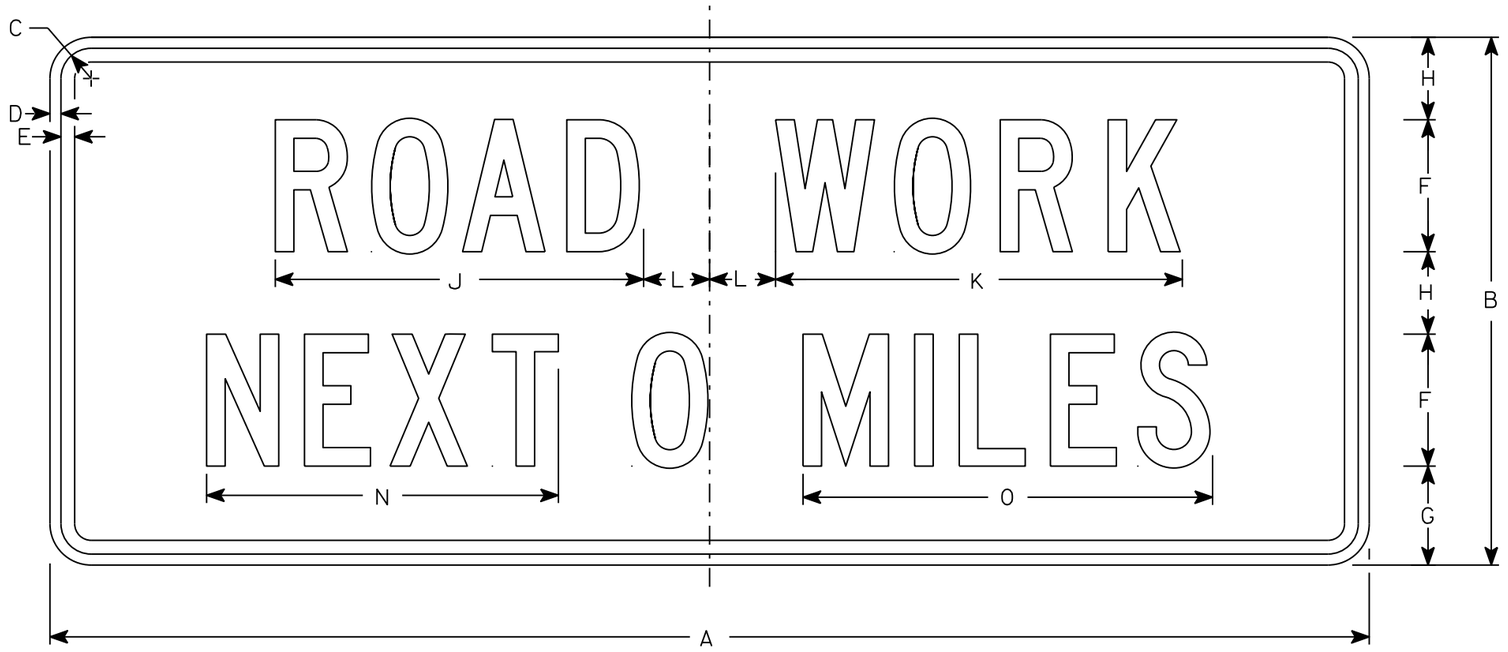
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 182 E



G20-1

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. Round distance to nearest whole Mile and 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																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

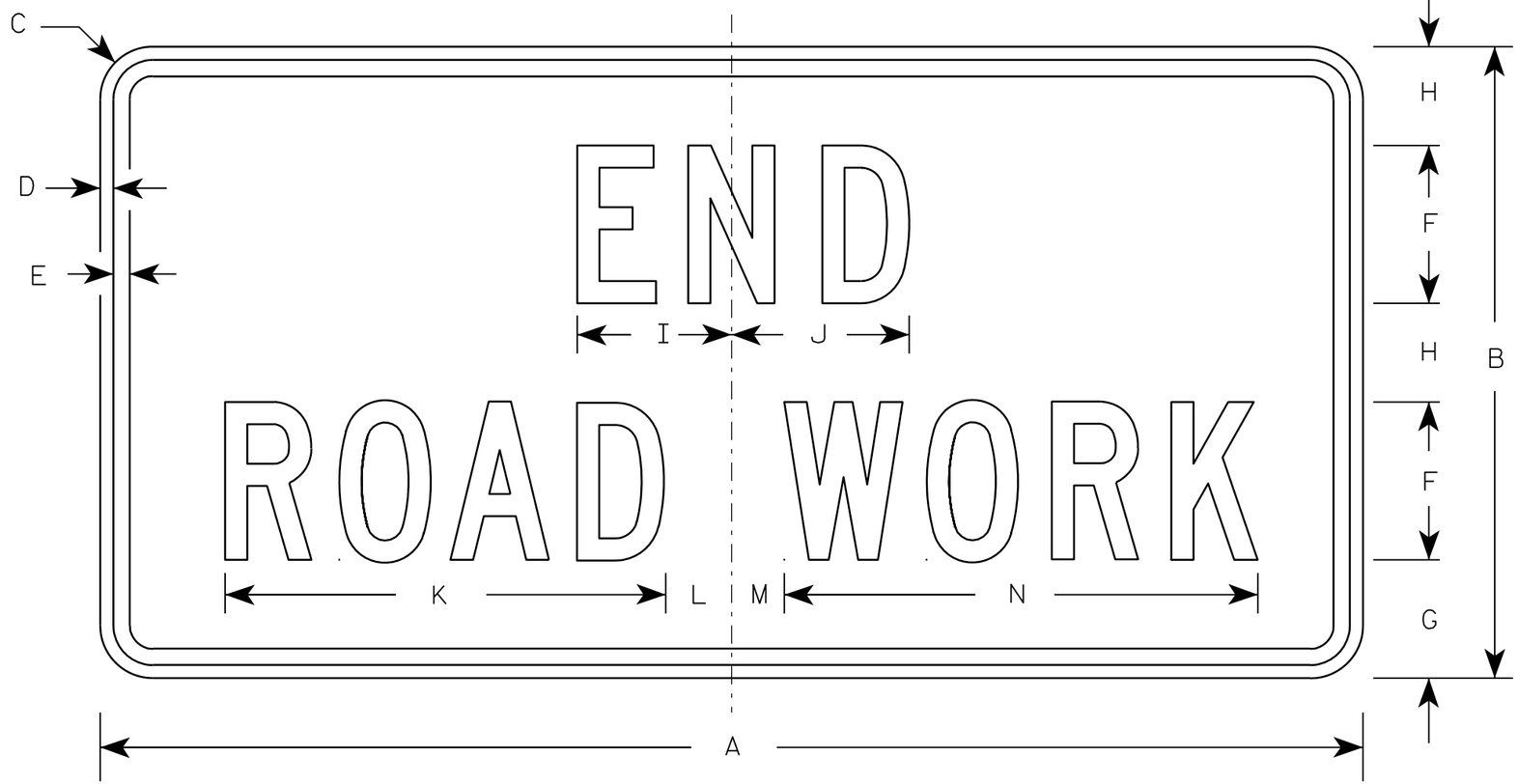
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 183 | 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

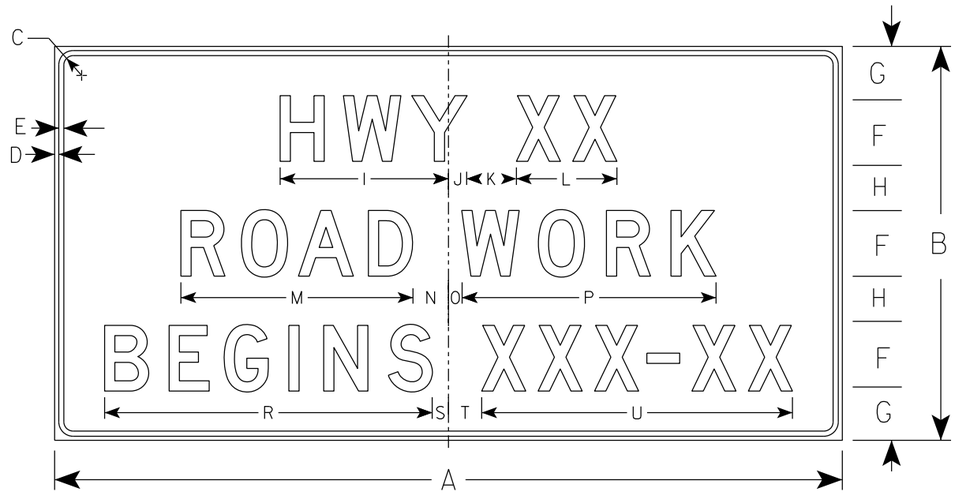
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 184	E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



G20-57

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	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	21 1/4	3 1/2	1 1/2	23 1/4		29 7/8	1 3/4	3 1/4	28 1/2						18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	2 1/4	6	12 1/4	28 1/4	4 3/8	1 5/8	31		39 1/4	2	4	37 7/8						32.0
5																											

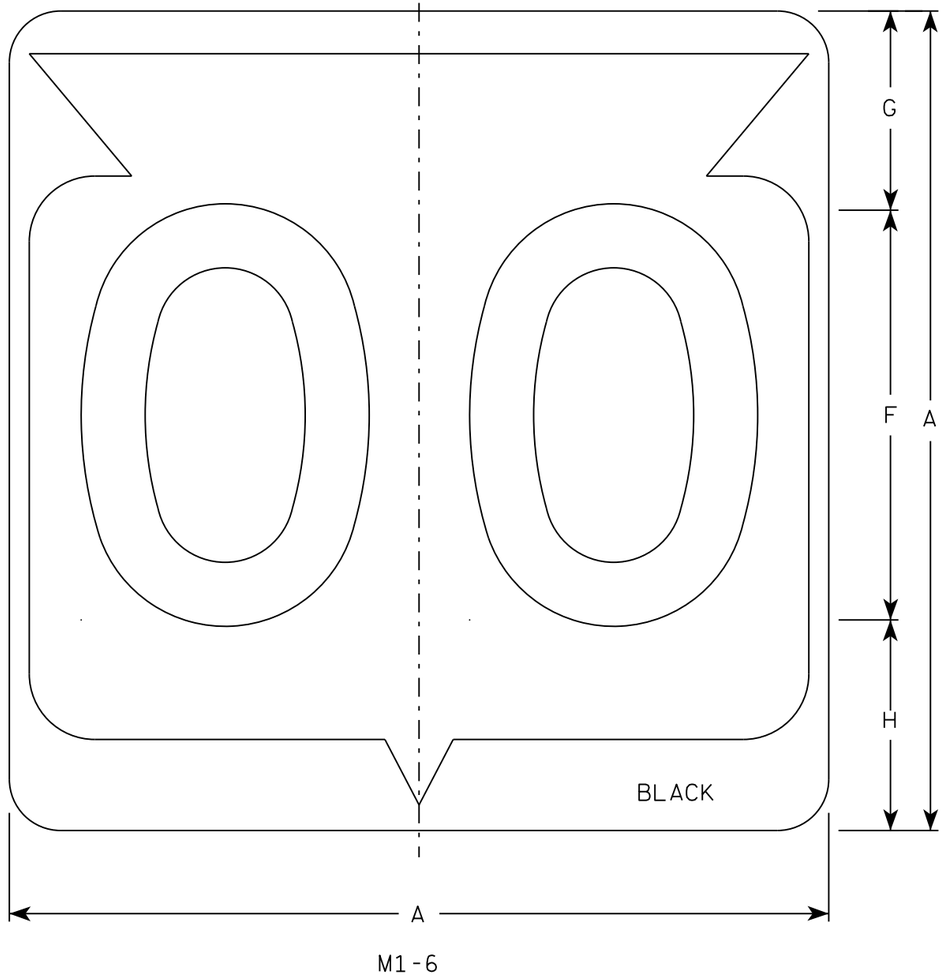
STANDARD SIGN
G20-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/22/19 PLATE NO. G20-57.3

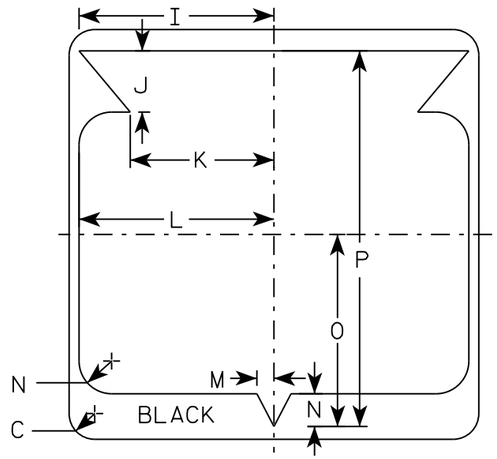
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 185	E



M1-6

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.



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			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

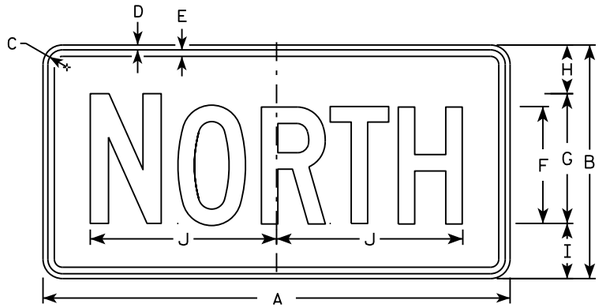
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

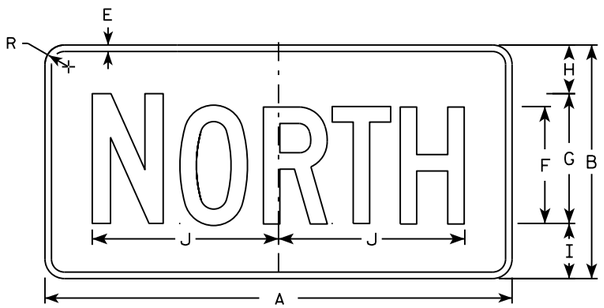
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 186 E



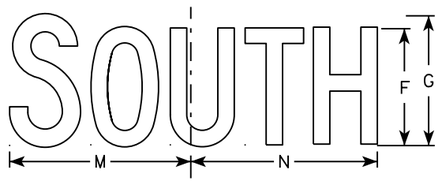
M3-1
MM3-1
MP3-1



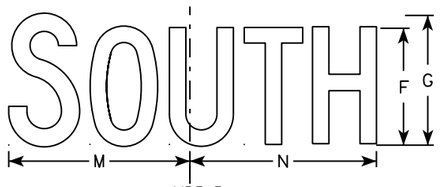
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

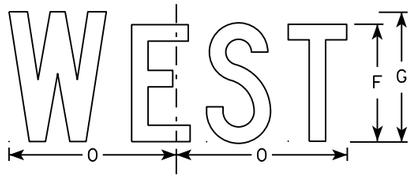
MB3-2
MK3-2
MN3-2



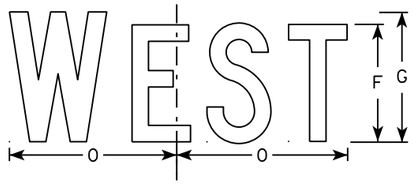
M3-3
MM3-3
MP3-3



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

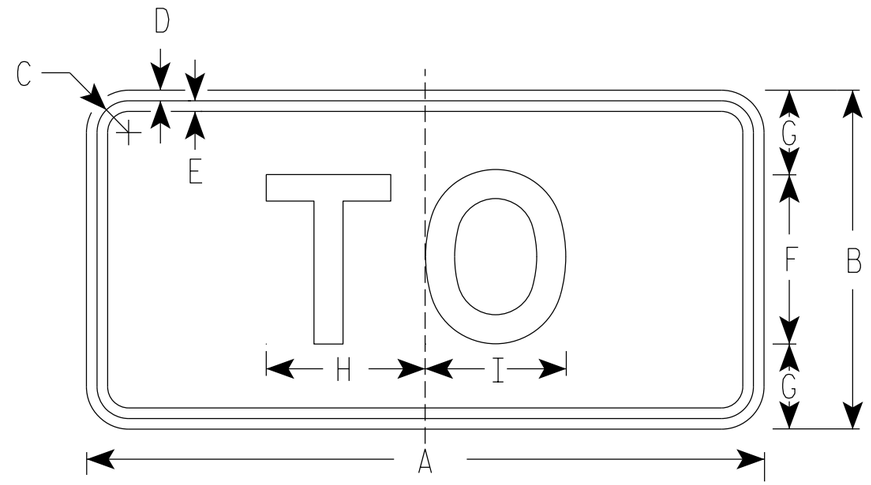
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

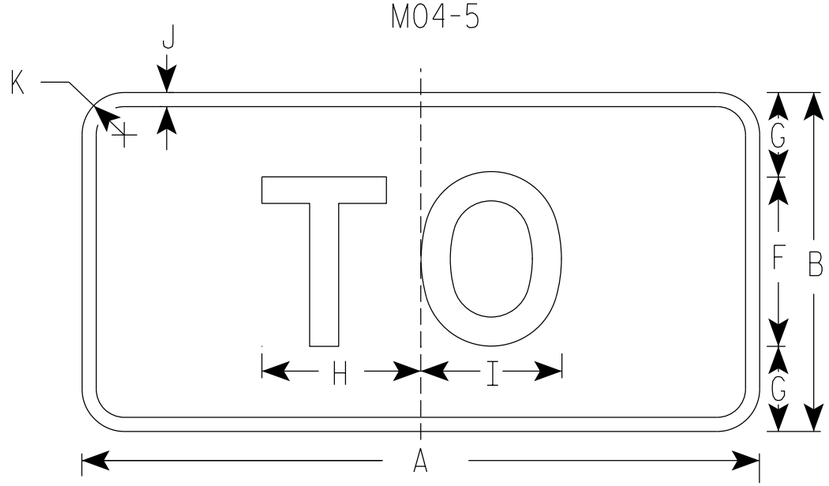
DATE 10/15/15 PLATE NO M3-1.14

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



M4-5
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

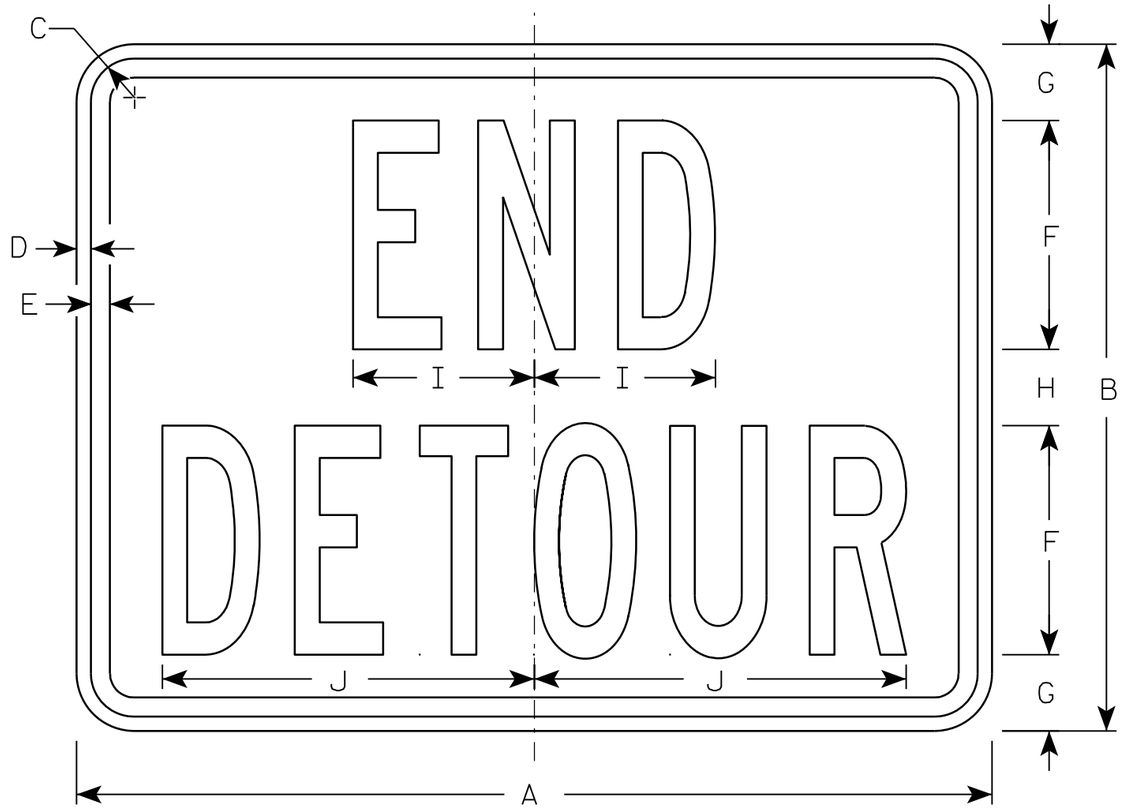
STANDARD SIGN
M4-5

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: 188 | E



M4-8A

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 - 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																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

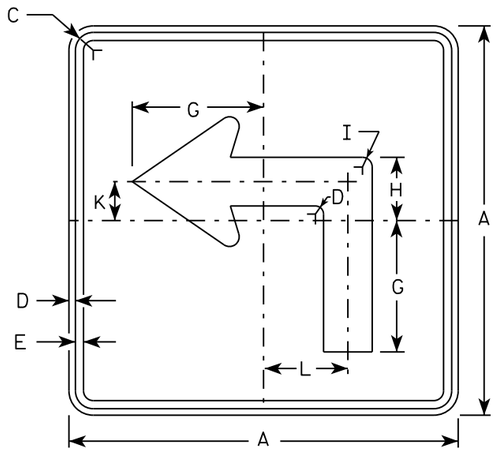
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

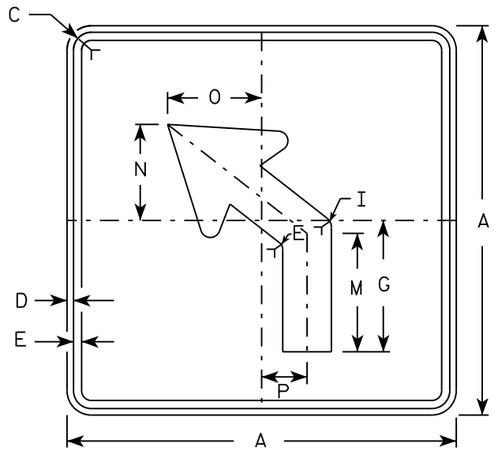
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

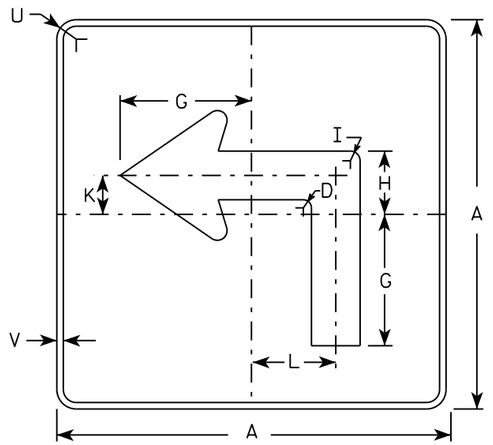
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 189	E



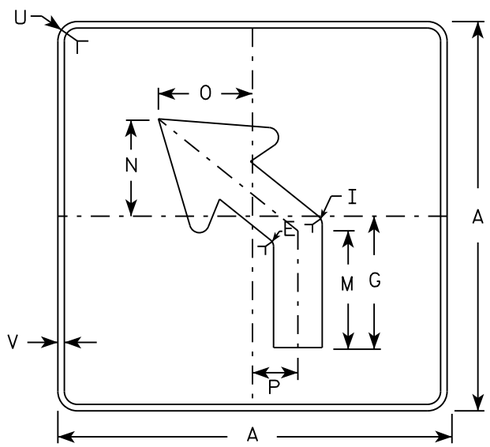
M5-1L
MM5-1L
MO5-1L
MP5-1L



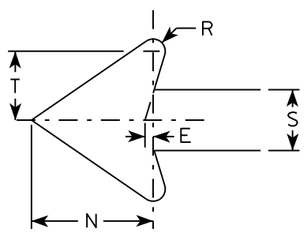
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

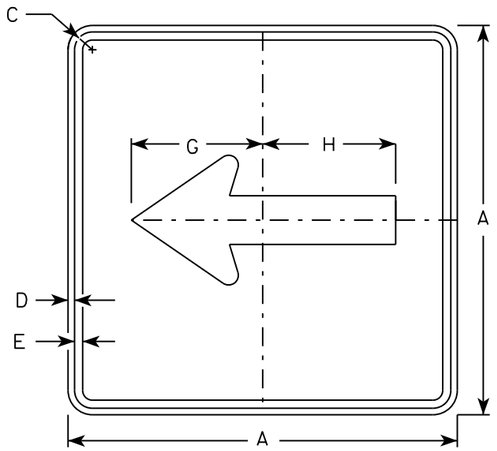
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

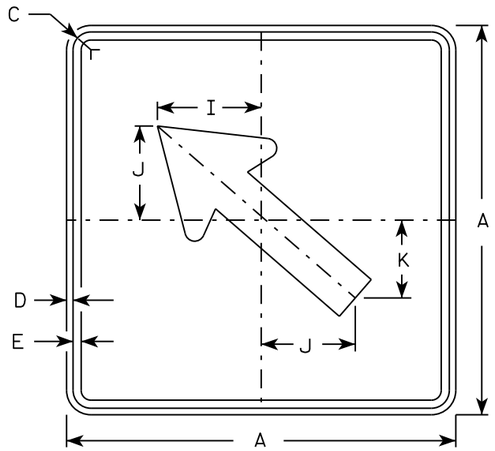
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



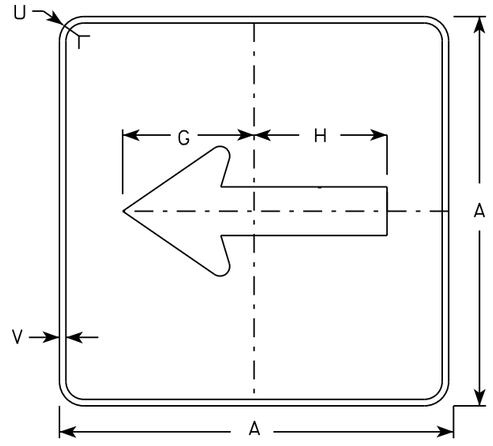
M6-1
MM6-1
MO6-1
MP6-1



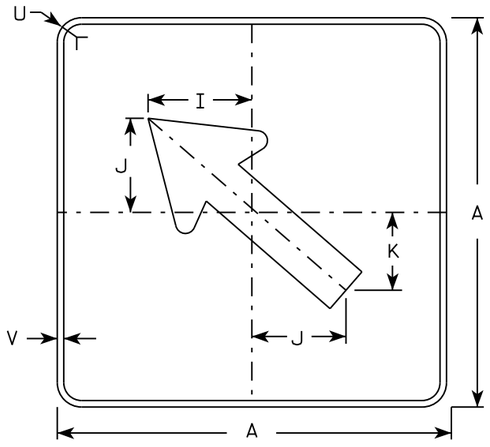
M6-2
MM6-2
MO6-2
MP6-2

NOTES

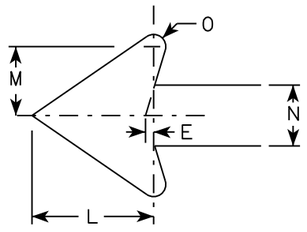
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

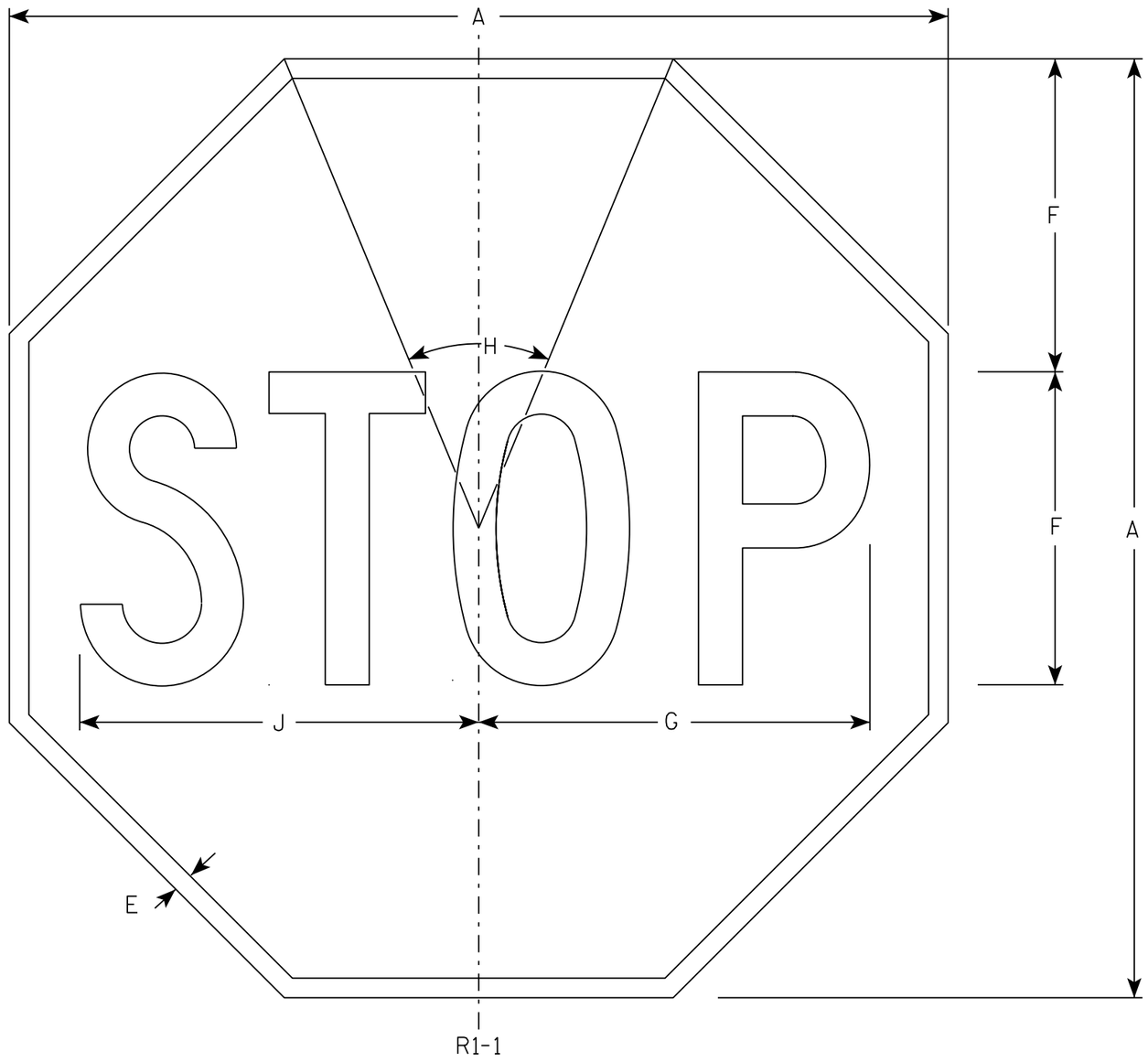
STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 191 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	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 - 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

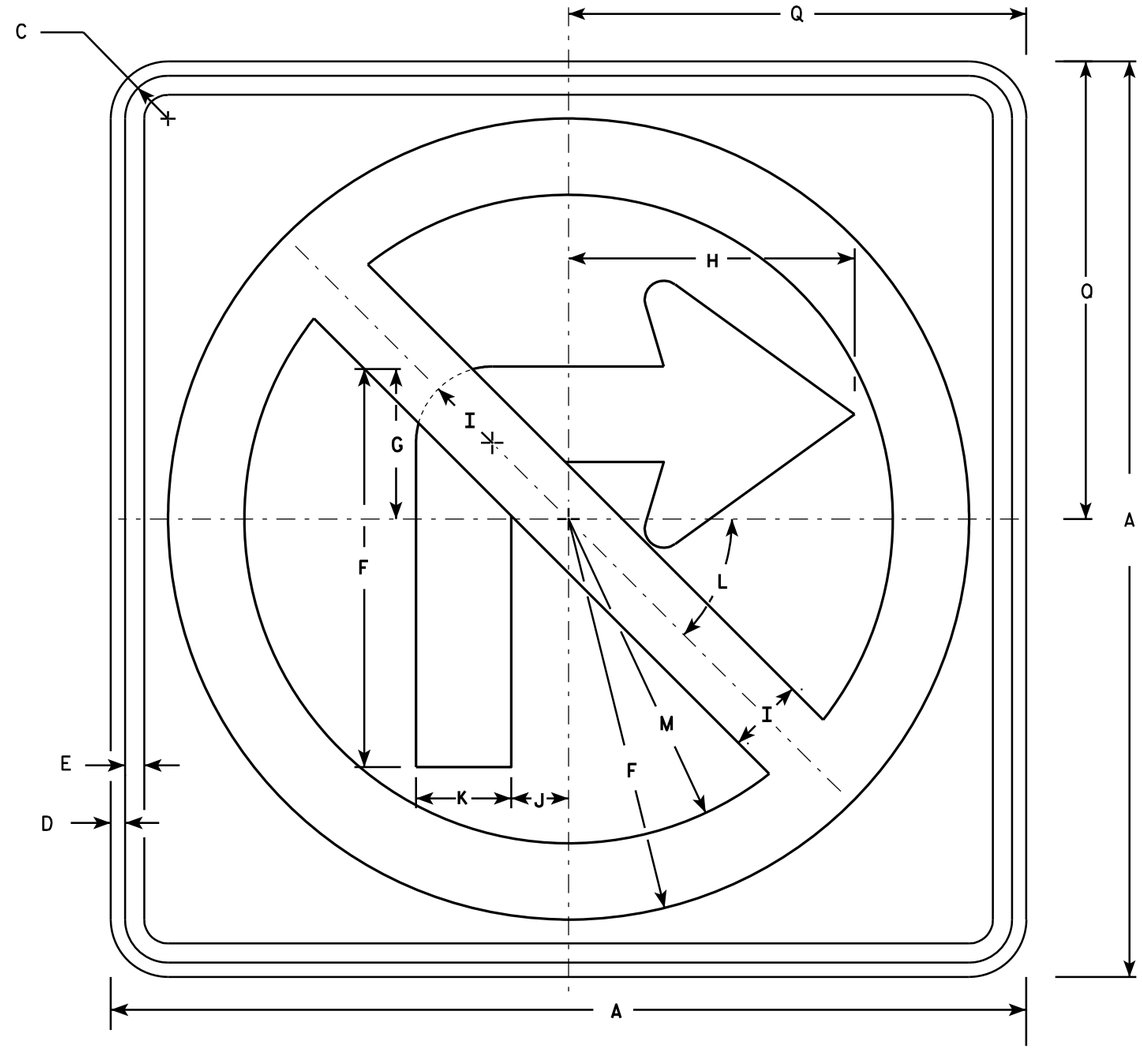
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

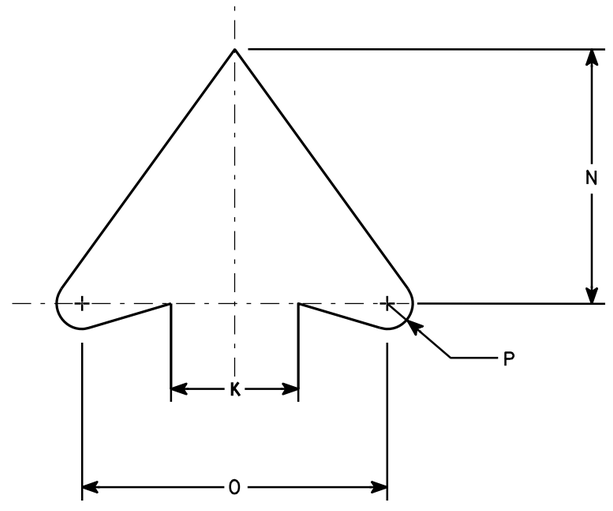
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 192	E



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

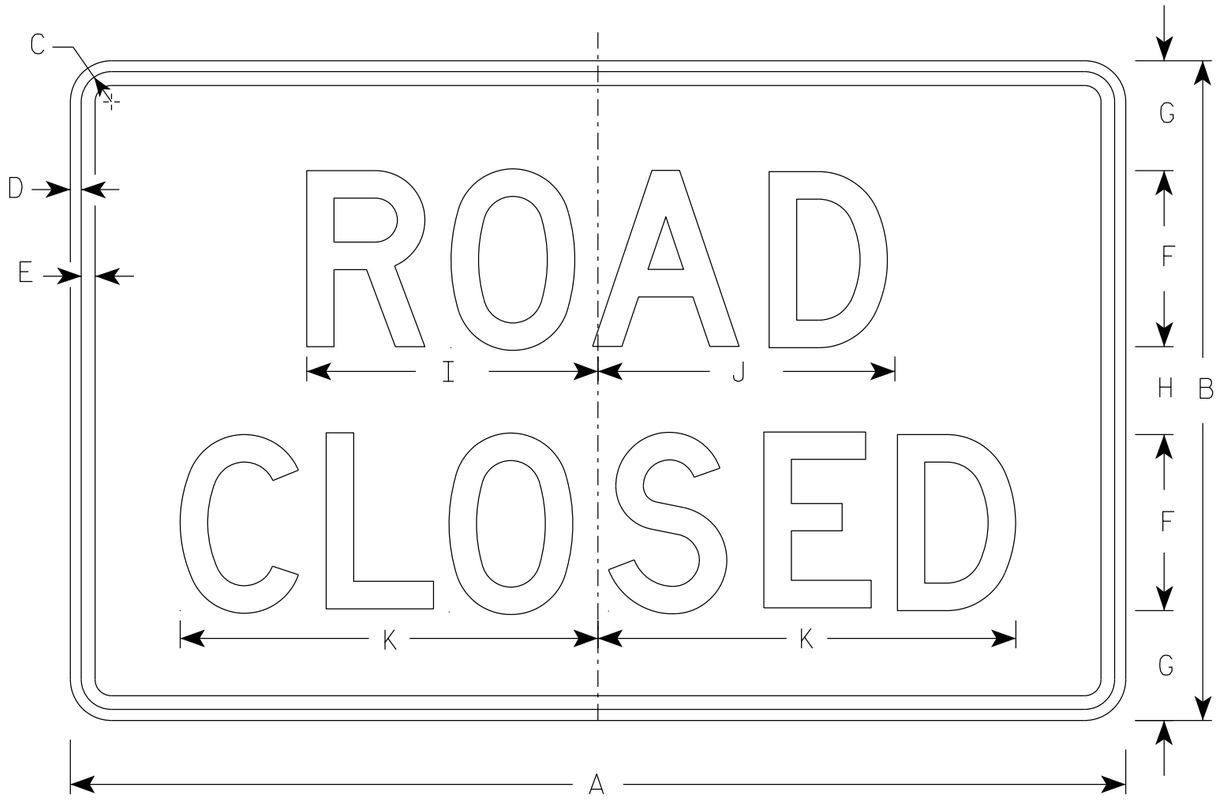
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

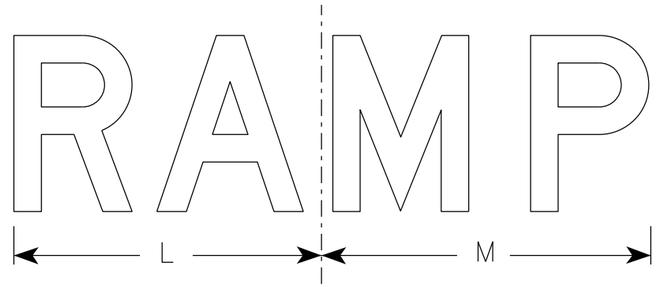
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 193	E



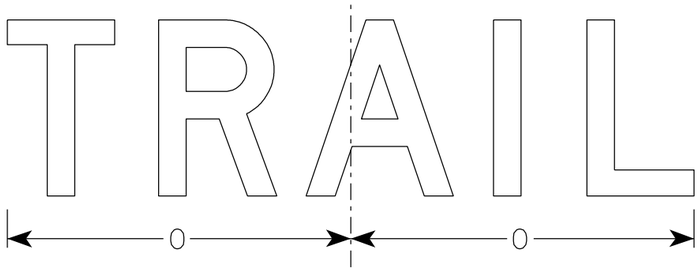
R11-2

NOTES

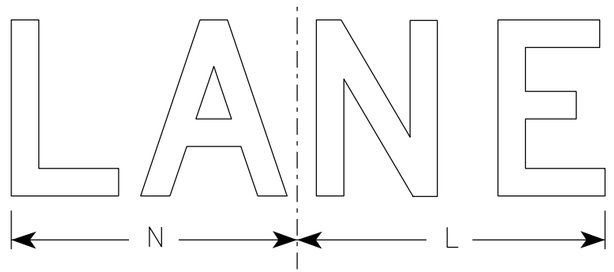
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the 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

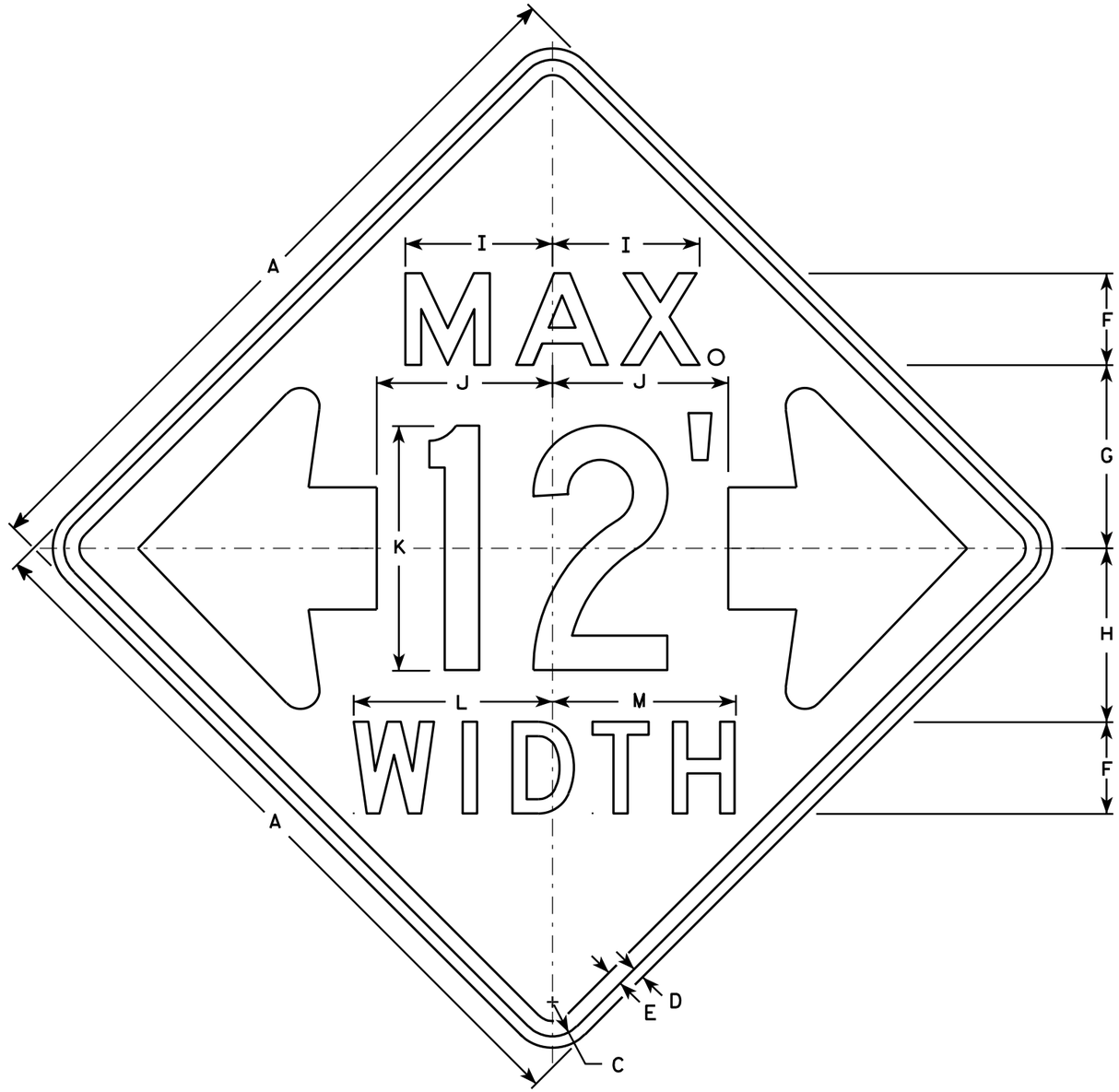
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn PLOT DATE : 29-MAR 2021 8:15 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

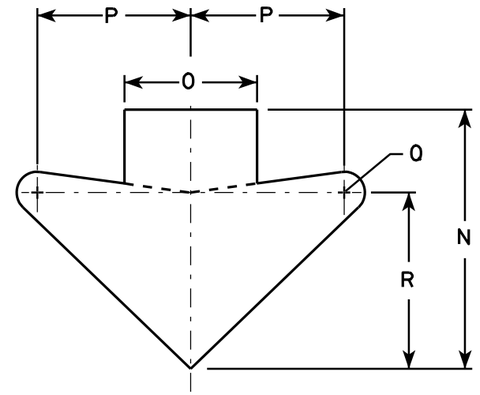
7



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

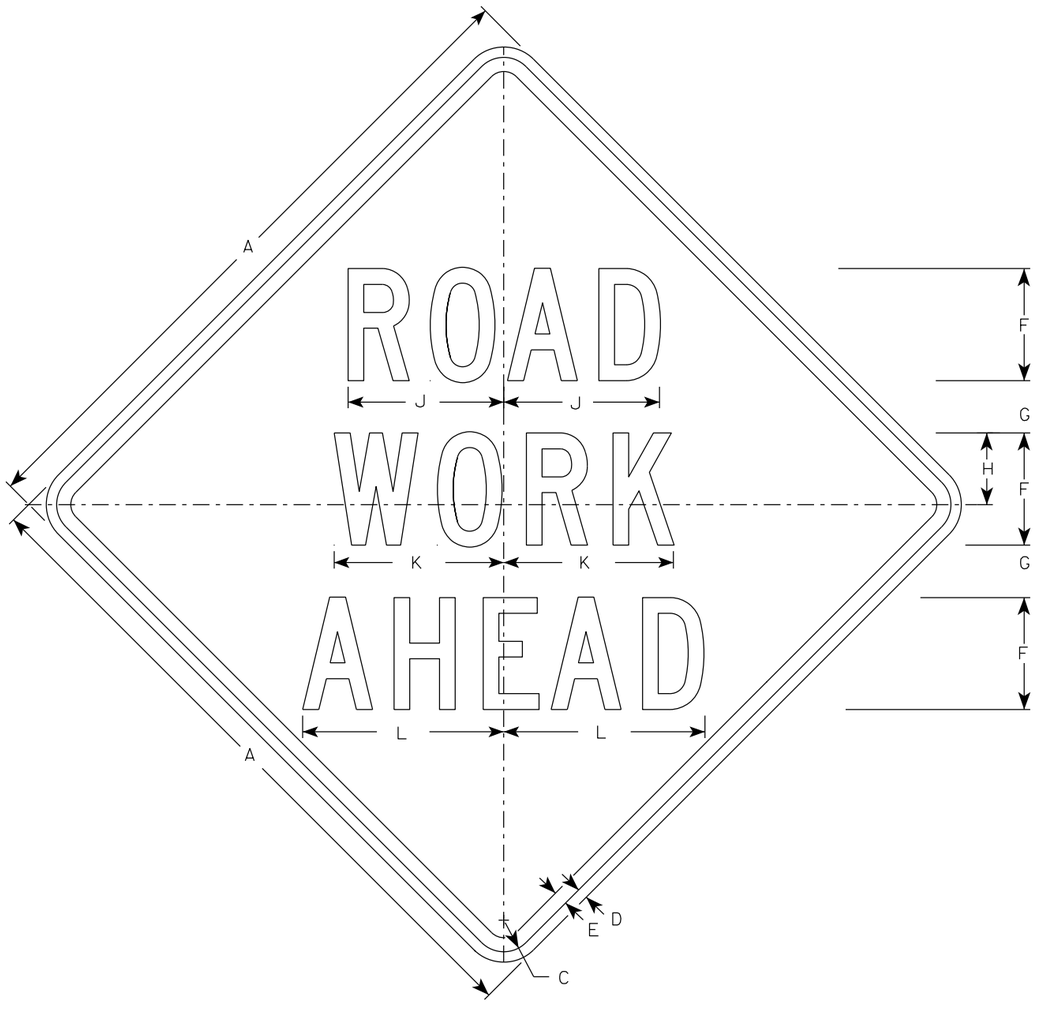
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

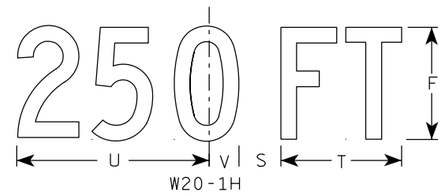
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 195 | E

7

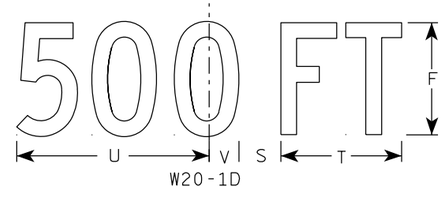
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42



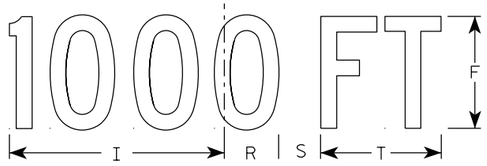
W20-1A



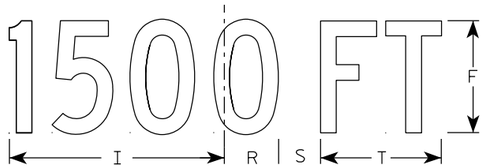
W20-1H



W20-1D



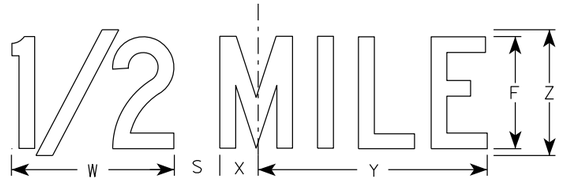
W20-1C



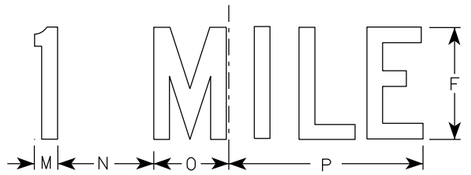
W20-1B

NOTES

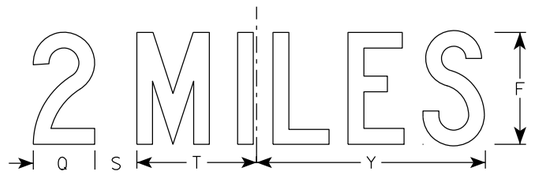
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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:

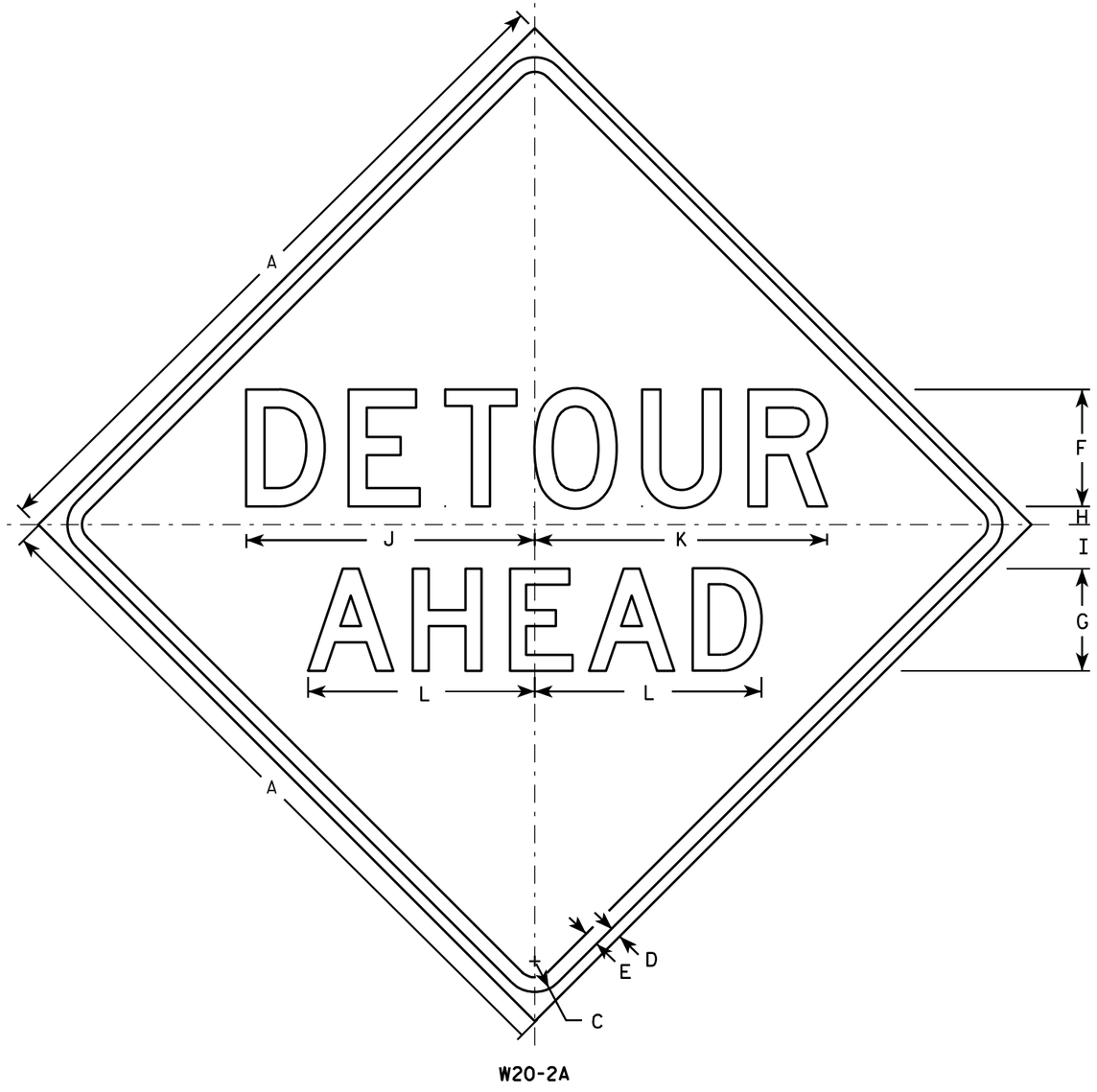
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

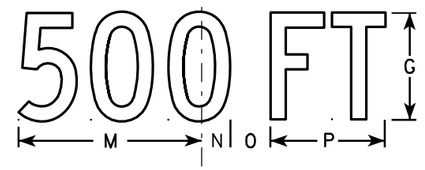
WISDOT/CADDS SHEET 42

7

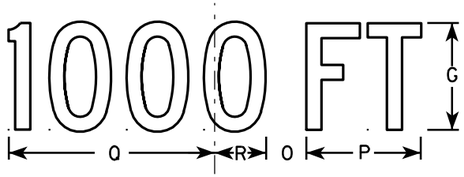
7



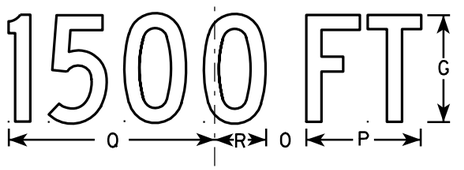
W20-2A



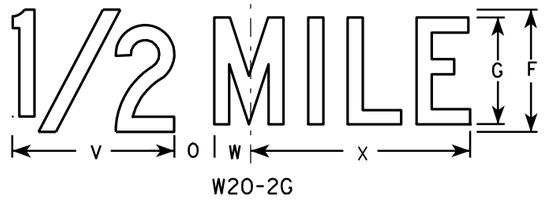
W20-2D



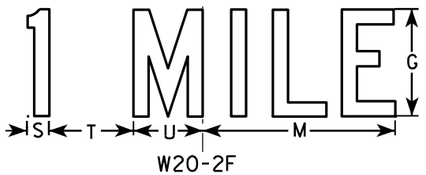
W20-2C



W20-2B



W20-2G



W20-2F

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. Line 1 is Series D.
   Line 2 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	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

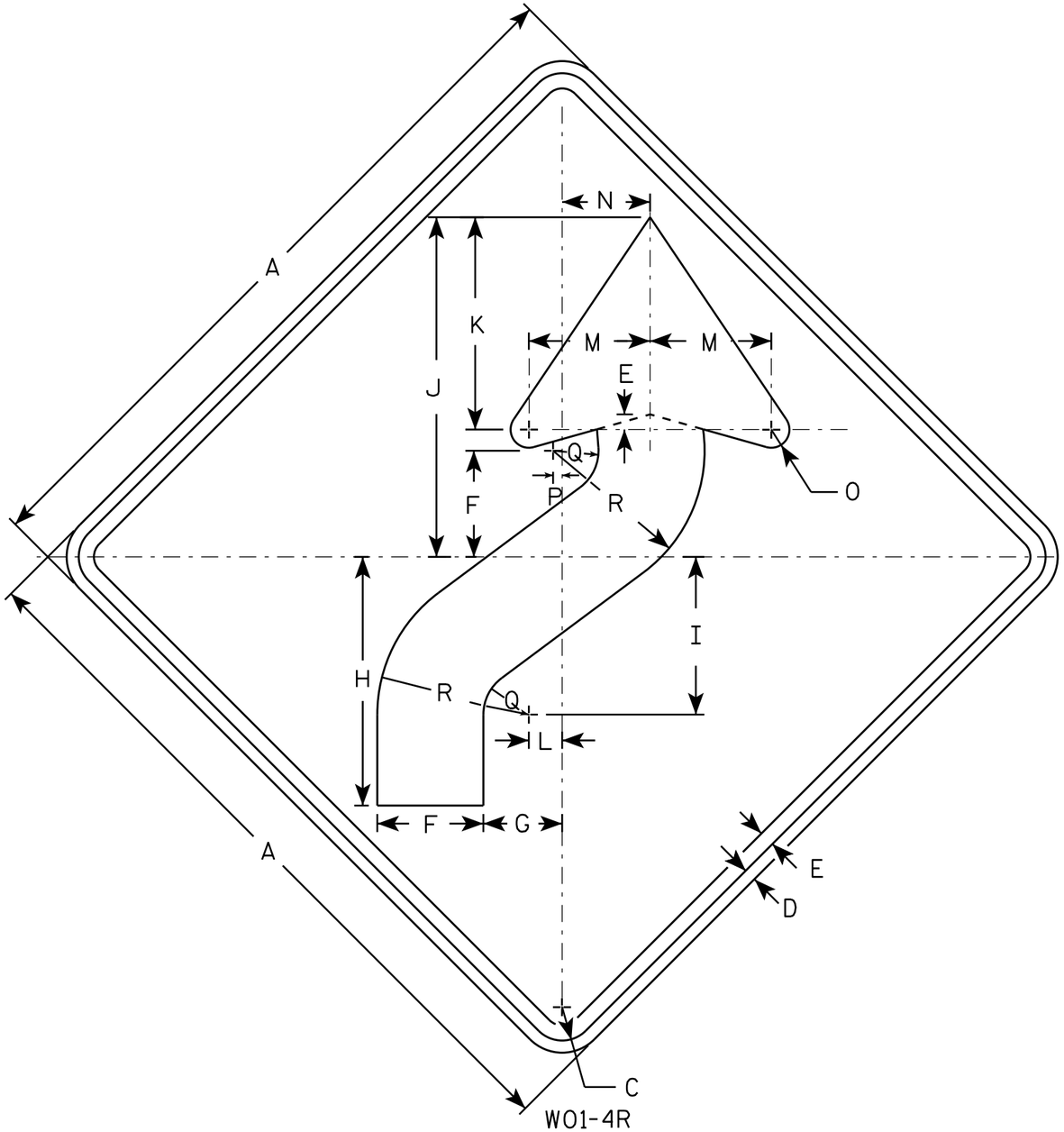
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 197	E



W01-4R

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. W01-4L is the same as W01-4R 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
W01-4

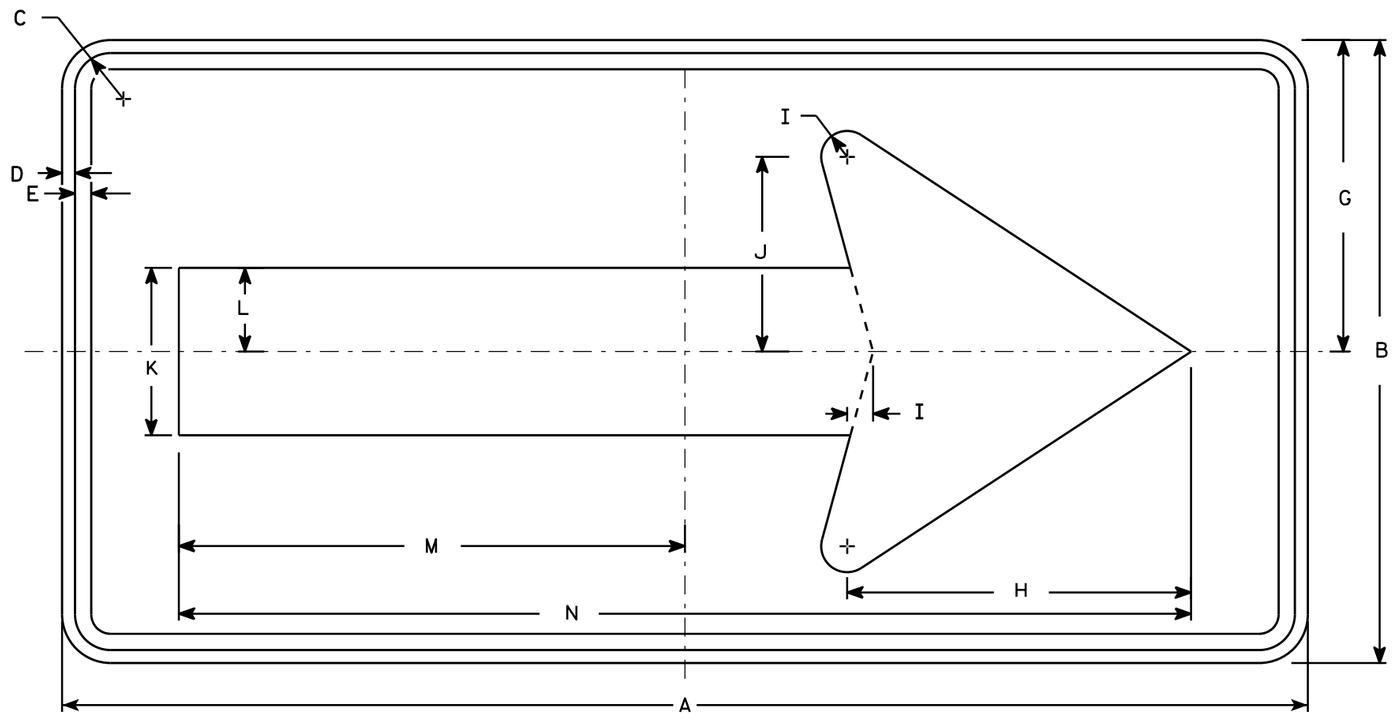
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000 WISDOT/CADDS SHEET 42



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

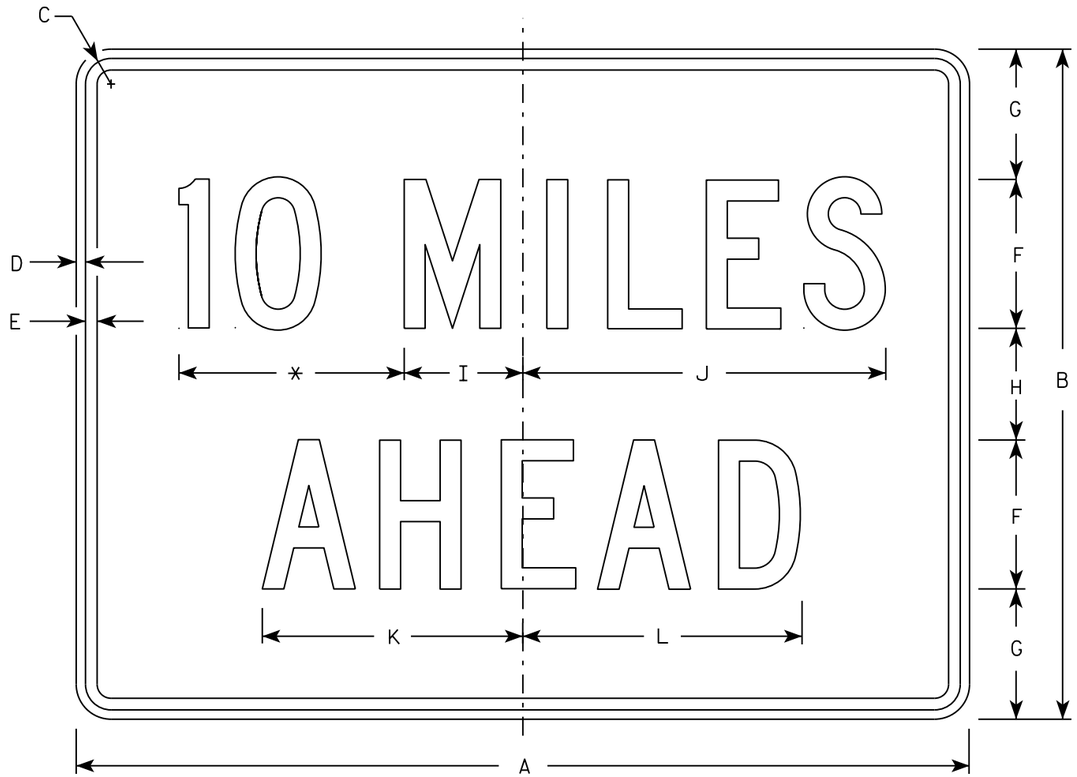
STANDARD SIGN
W01-6

WISCONSIN DEPT OF TRANSPORTATION

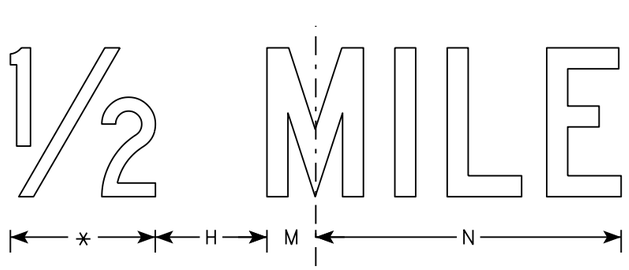
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



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: 200	E

PROJECT ID 1430-08-81
STH 23 - WEST OF STH 73

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	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	396+89.69	39689.69	0.00	14.53	4.77	7.08	0	0	0	0	0	0
	397+00	39700.00	10.31	14.31	4.46	8.21	6	2	3	6	4	0
	397+50	39750.00	50.00	13.00	2.90	9.01	25	7	16	31	24	-2
	398+00	39800.00	50.00	12.58	2.84	9.38	24	5	17	55	45	-4
	398+50	39850.00	50.00	13.00	2.83	10.16	24	5	18	79	68	-8
	399+00	39900.00	50.00	14.42	2.90	11.39	25	5	20	104	93	-13
	399+50	39950.00	50.00	18.00	2.89	13.07	30	5	23	134	121	-16
	400+00	40000.00	50.00	19.07	2.88	13.96	34	5	25	168	153	-19
	400+50	40050.00	50.00	19.52	2.84	13.82	36	5	26	204	185	-20
	401+00	40100.00	50.00	20.89	2.86	13.91	37	5	26	241	218	-21
	401+50	40150.00	50.00	18.32	2.85	15.48	36	5	27	277	251	-23
	402+00	40200.00	50.00	16.94	2.85	14.79	33	5	28	310	286	-30
	402+50	40250.00	50.00	18.09	2.84	12.16	32	5	25	342	318	-35
	403+00	40300.00	50.00	16.30	2.90	12.08	32	5	22	374	345	-35
	403+50	40350.00	50.00	20.42	3.79	11.55	34	6	22	408	373	-35
	404+00	40400.00	50.00	24.16	5.72	10.80	41	9	21	449	399	-29
	404+50	40450.00	50.00	34.21	5.10	8.91	54	10	18	503	421	-7
	405+00	40500.00	50.00	18.80	0.00	11.77	49	5	19	552	445	13
	405+50	40550.00	50.00	21.90	0.00	13.90	38	0	24	590	475	21
	406+00	40600.00	50.00	21.88	0.00	8.36	41	0	21	631	501	36
	406+50	40650.00	50.00	9.12	0.00	39.54	29	0	44	660	556	10
	407+00	40700.00	50.00	10.86	0.00	38.66	18	0	72	678	646	-62
	407+50	40750.00	50.00	12.89	0.00	40.11	22	0	73	700	738	-132
	407+73.93	40773.93	23.93	18.39	0.00	32.70	14	0	32	714	778	-158
					PROJECT SUBTOTALS 0010		714	94	622			

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)]
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)]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]

9

9

PROJECT NO: 1430-08-81 | HWY: STH 23 | COUNTY: GREEN LAKE | EARTHWORK DATA | SHEET 201 | E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090101_EW.DWG
LAYOUT NAME - 01
PLOT DATE : 6/21/2023 2:05 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1" = 1'

PROJECT ID 1430-08-81
STH 23 - EAST OF STH 73

CATEGORY	STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
				CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	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	409+18.92	40918.92	0.00	36.63	12.46	12.92	0	0	0	0	0	0
	409+50	40950.00	31.08	22.68	6.94	17.95	34	11	18	34	23	1
	410+00	41000.00	50.00	14.37	3.17	19.58	34	9	35	68	66	-18
	410+50	41050.00	50.00	16.01	2.94	21.81	28	6	38	96	114	-44
	411+00	41100.00	50.00	17.80	2.91	20.88	31	5	40	127	164	-68
	411+50	41150.00	50.00	53.37	2.94	1.05	66	5	20	193	189	-32
	412+00	41200.00	50.00	15.61	2.94	48.29	64	5	46	257	246	-30
	412+50	41250.00	50.00	13.98	2.91	94.38	27	5	132	284	411	-173
	413+00	41300.00	50.00	15.31	2.94	62.28	27	5	145	311	593	-333
	413+50	41350.00	50.00	14.20	2.84	46.58	27	5	101	338	719	-437
	414+00	41400.00	50.00	13.25	2.91	34.22	25	5	75	363	813	-511
	414+50	41450.00	50.00	13.91	2.96	23.87	25	5	54	388	880	-558
	415+00	41500.00	50.00	13.76	2.94	18.15	26	5	39	414	929	-586
	415+50	41550.00	50.00	13.63	2.89	11.99	25	5	28	439	964	-601
	416+00	41600.00	50.00	14.32	2.94	6.87	26	5	17	465	985	-601
	416+50	41650.00	50.00	14.33	2.86	8.23	27	5	14	492	1,003	-597
	417+00	41700.00	50.00	14.15	2.88	15.63	26	5	22	518	1,030	-603
	417+50	41750.00	50.00	15.14	2.88	16.87	27	5	30	545	1,068	-619
	418+00	41800.00	50.00	18.33	7.40	4.54	31	10	20	576	1,093	-623
	418+50	41850.00	50.00	19.25	7.42	0.88	35	14	5	611	1,099	-608
	419+00	41900.00	50.00	16.64	7.46	0.09	33	14	1	644	1,100	-590
	419+50	41950.00	50.00	16.90	7.46	0.11	31	14	0	675	1,100	-573
	420+00	42000.00	50.00	15.56	7.49	0.03	30	14	0	705	1,100	-557
	420+05.81	42005.81	5.81	15.34	7.49	0.03	3	2	0	708	1,100	-556
PROJECT SUBTOTALS 0010							708	164	880			

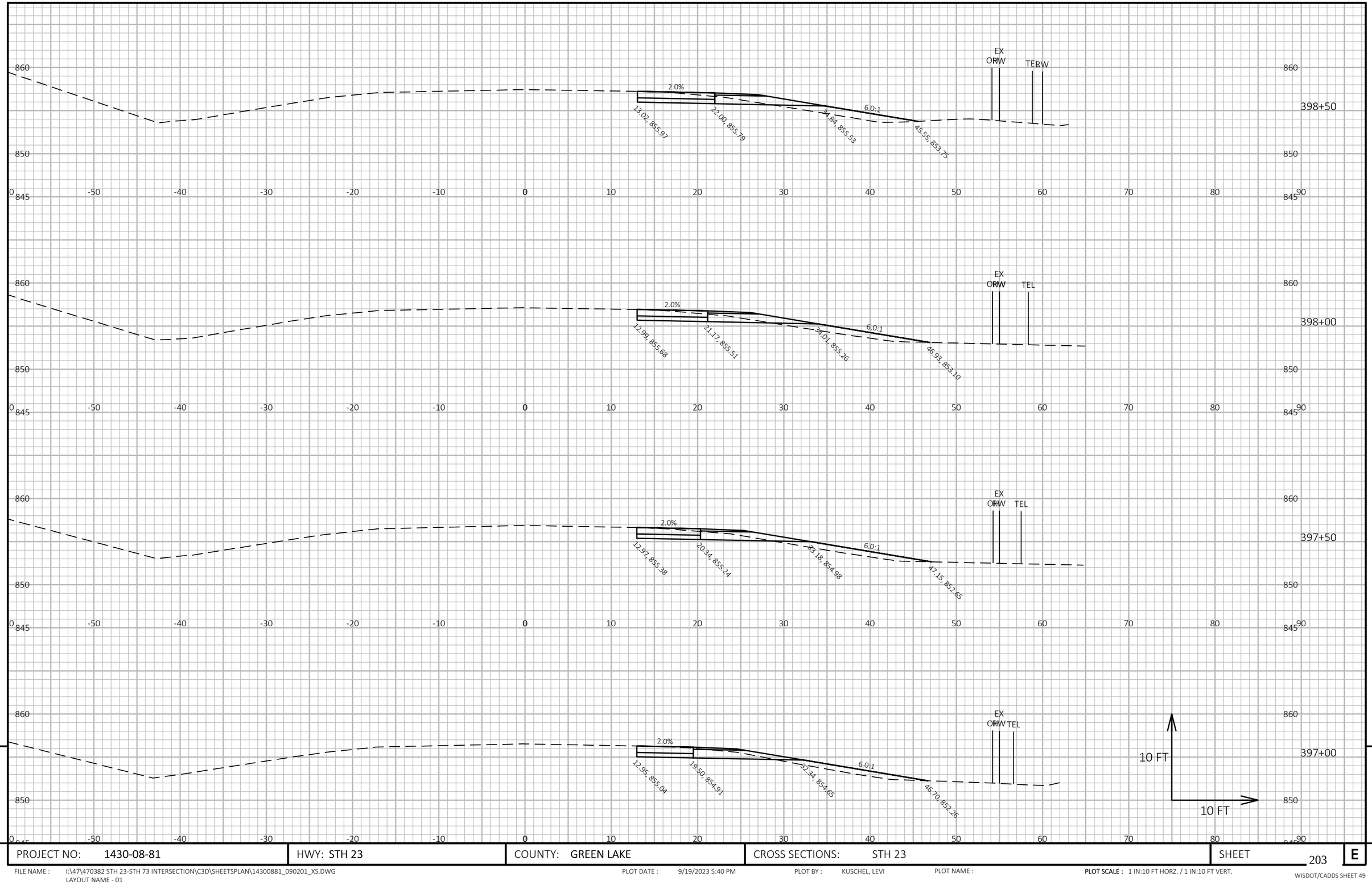
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED 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)]
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)]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]

9

9

PROJECT NO: 1430-08-81 | HWY: STH 23 | COUNTY: GREEN LAKE | EARTHWORK DATA | SHEET 202 | E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090101_EW.DWG
LAYOUT NAME - 02
PLOT DATE : 6/21/2023 2:05 PM PLOT BY : BUTTERIS, BRADLEY PLOT NAME : PLOT SCALE : 1" = 1'



9

9

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 203	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 01

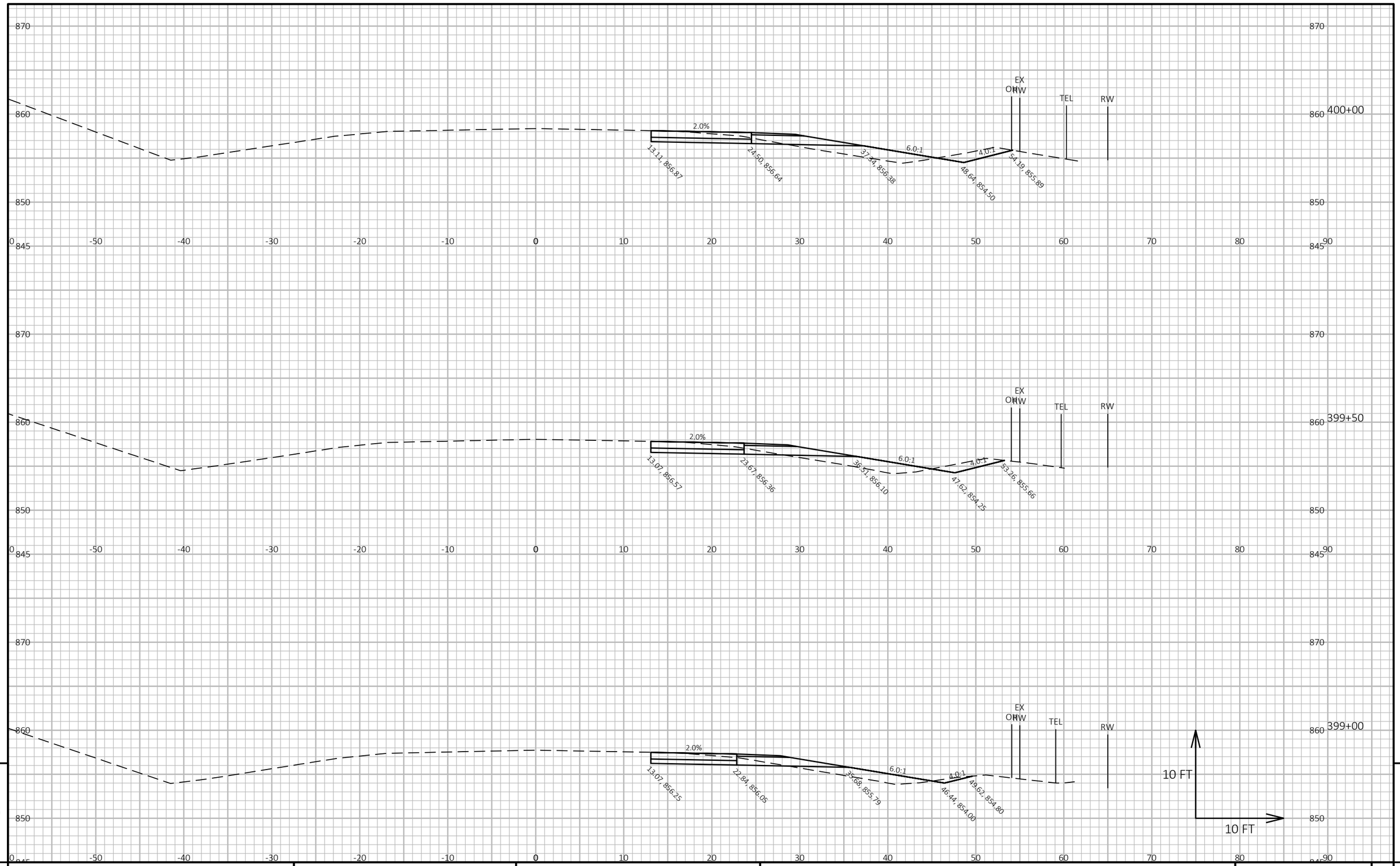
PLOT DATE : 9/19/2023 5:40 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

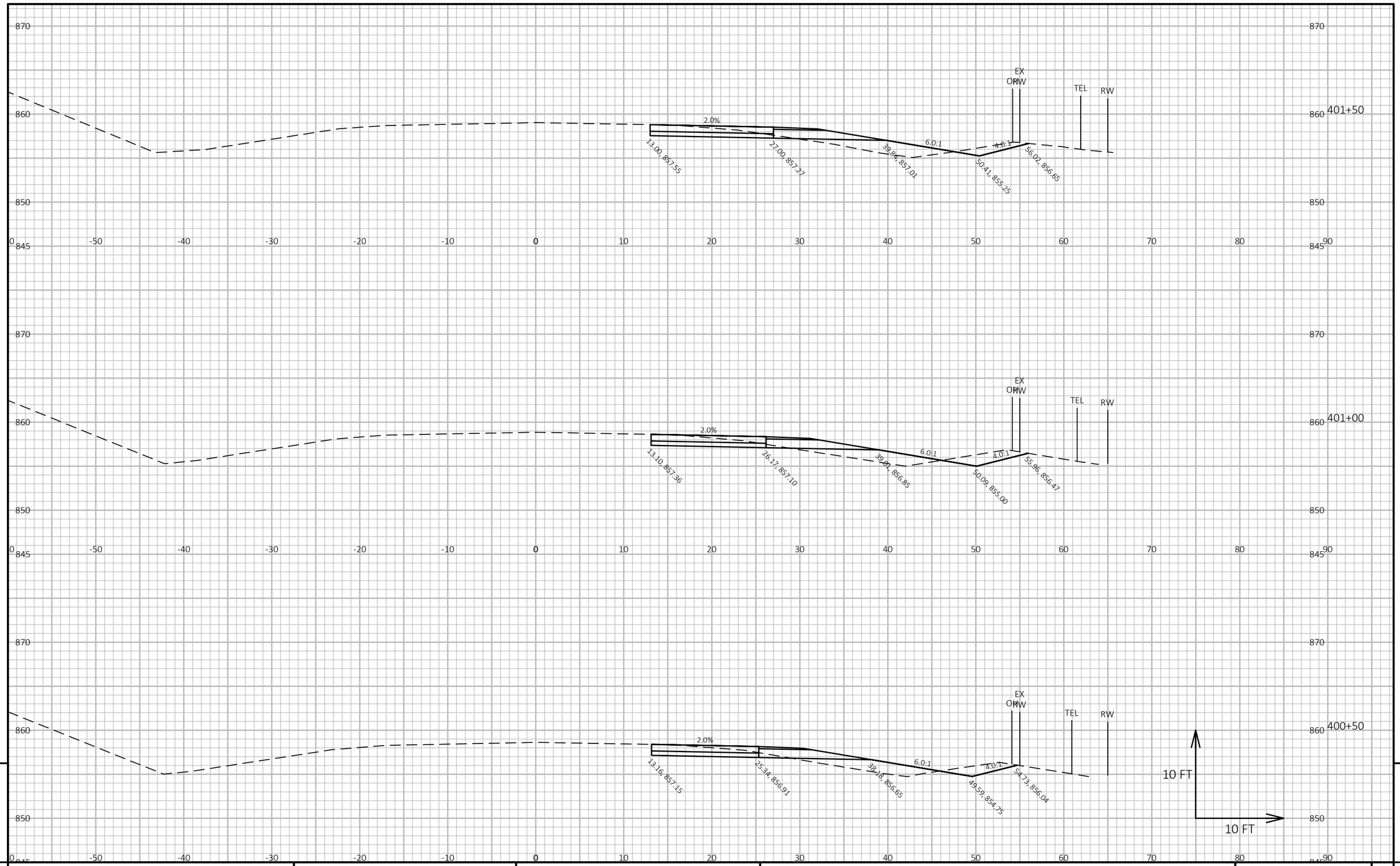


PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 204	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 02

PLOT DATE : 9/19/2023 5:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 205	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 03

PLOT DATE : 9/19/2023 5:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 206	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 04

PLOT DATE : 9/19/2023 5:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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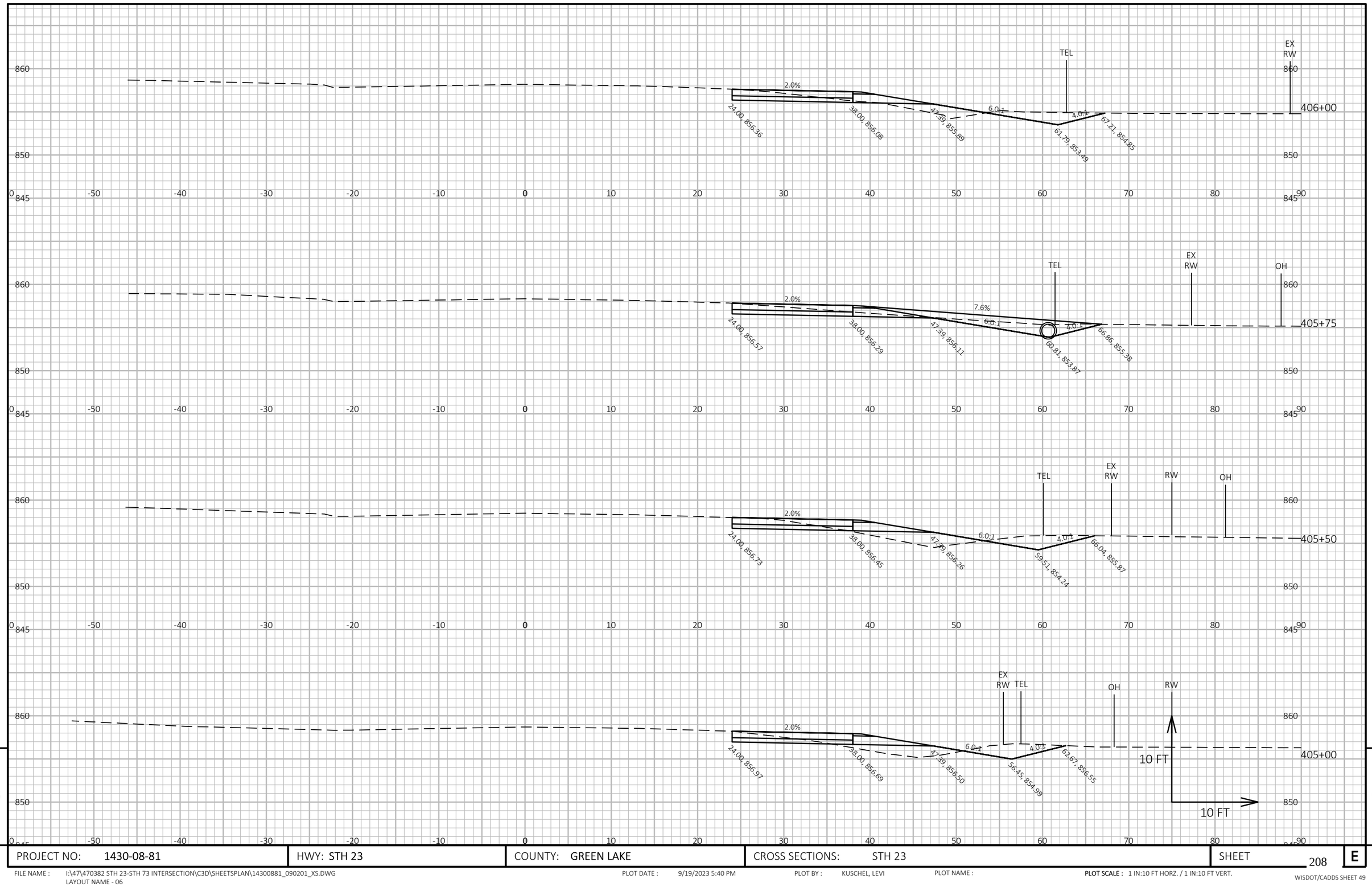
PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 207	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 05

PLOT DATE : 9/19/2023 5:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 208	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 06

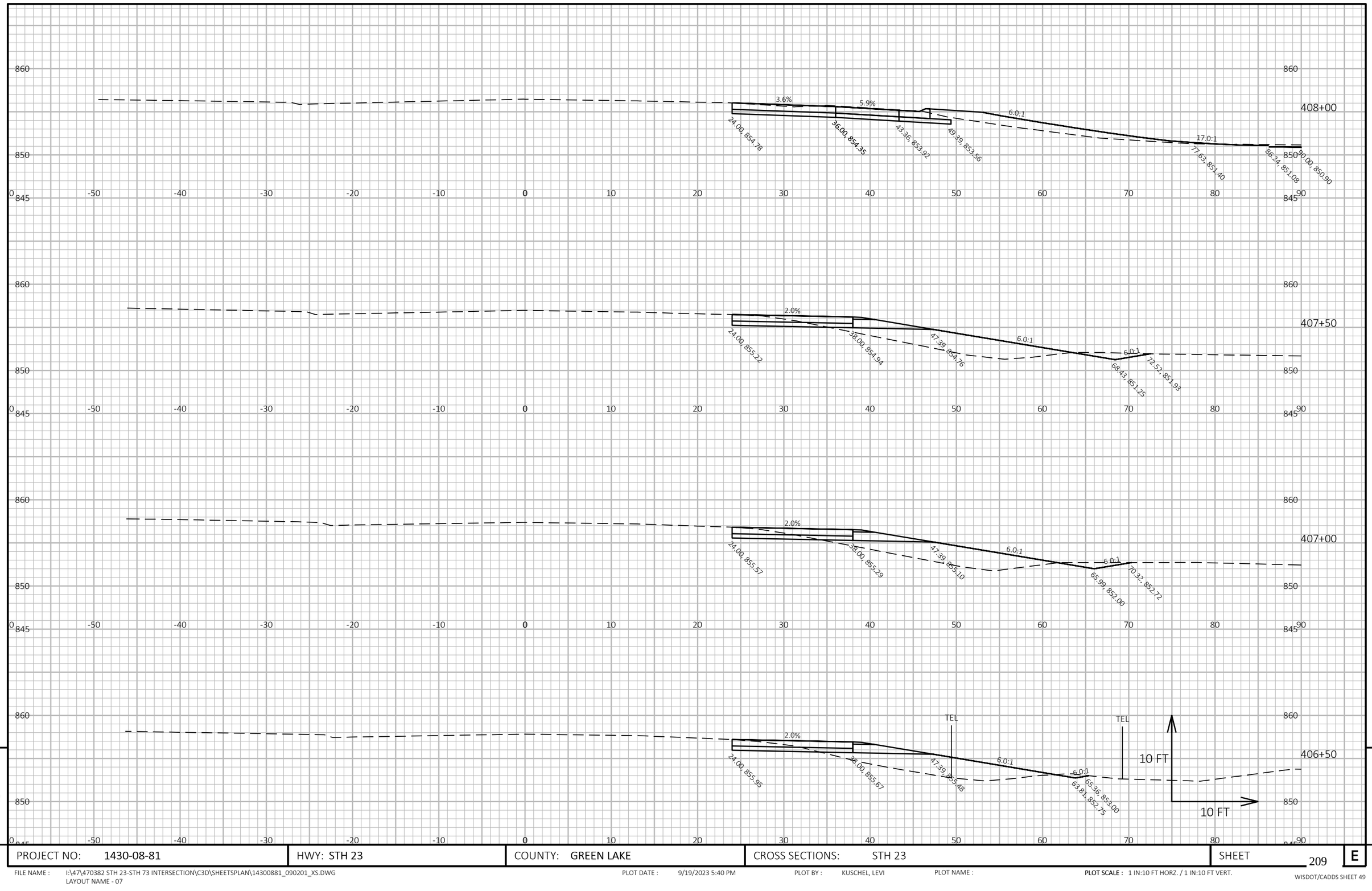
PLOT DATE : 9/19/2023 5:40 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

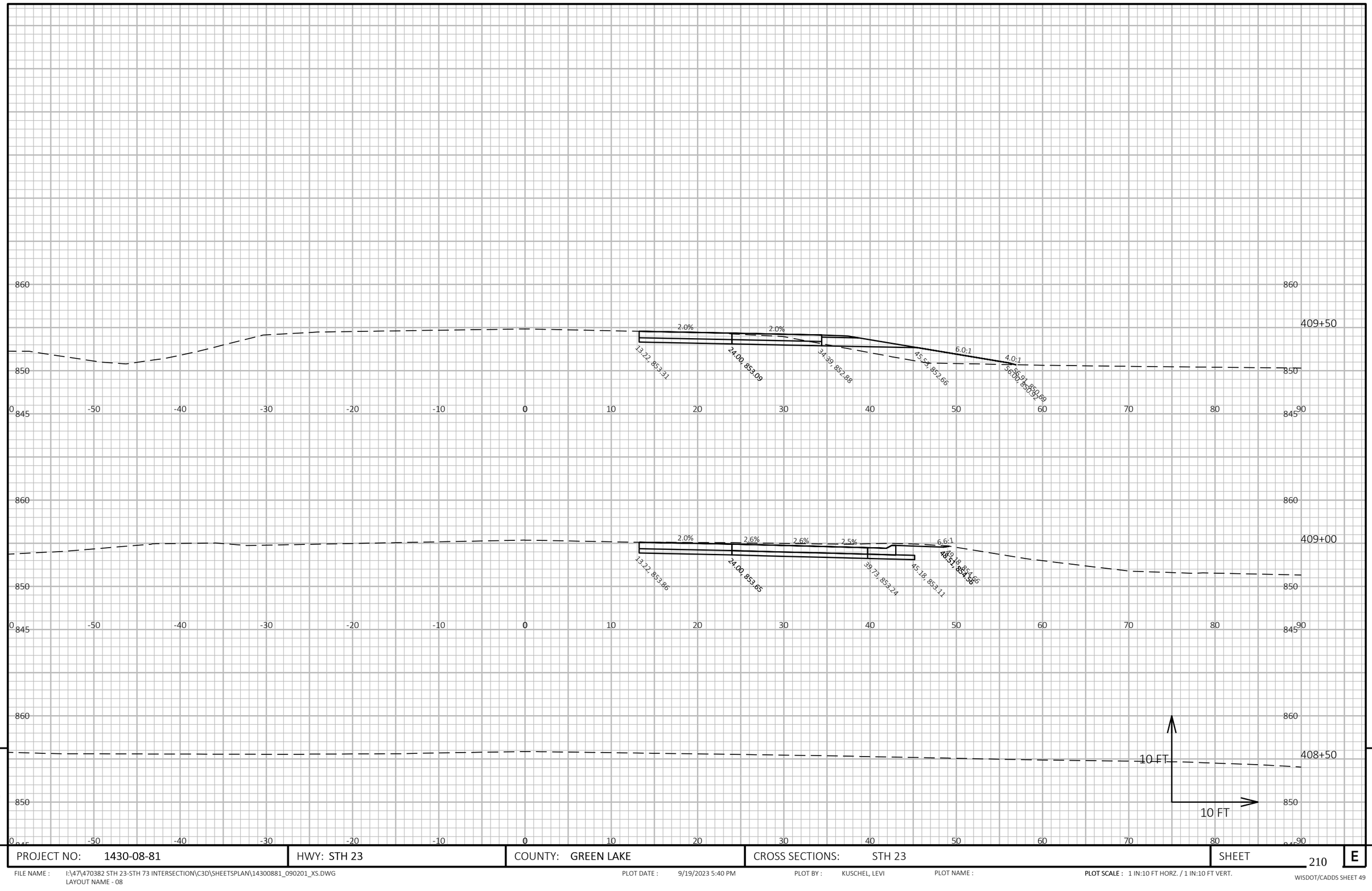
9

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 209	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 07

PLOT DATE : 9/19/2023 5:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

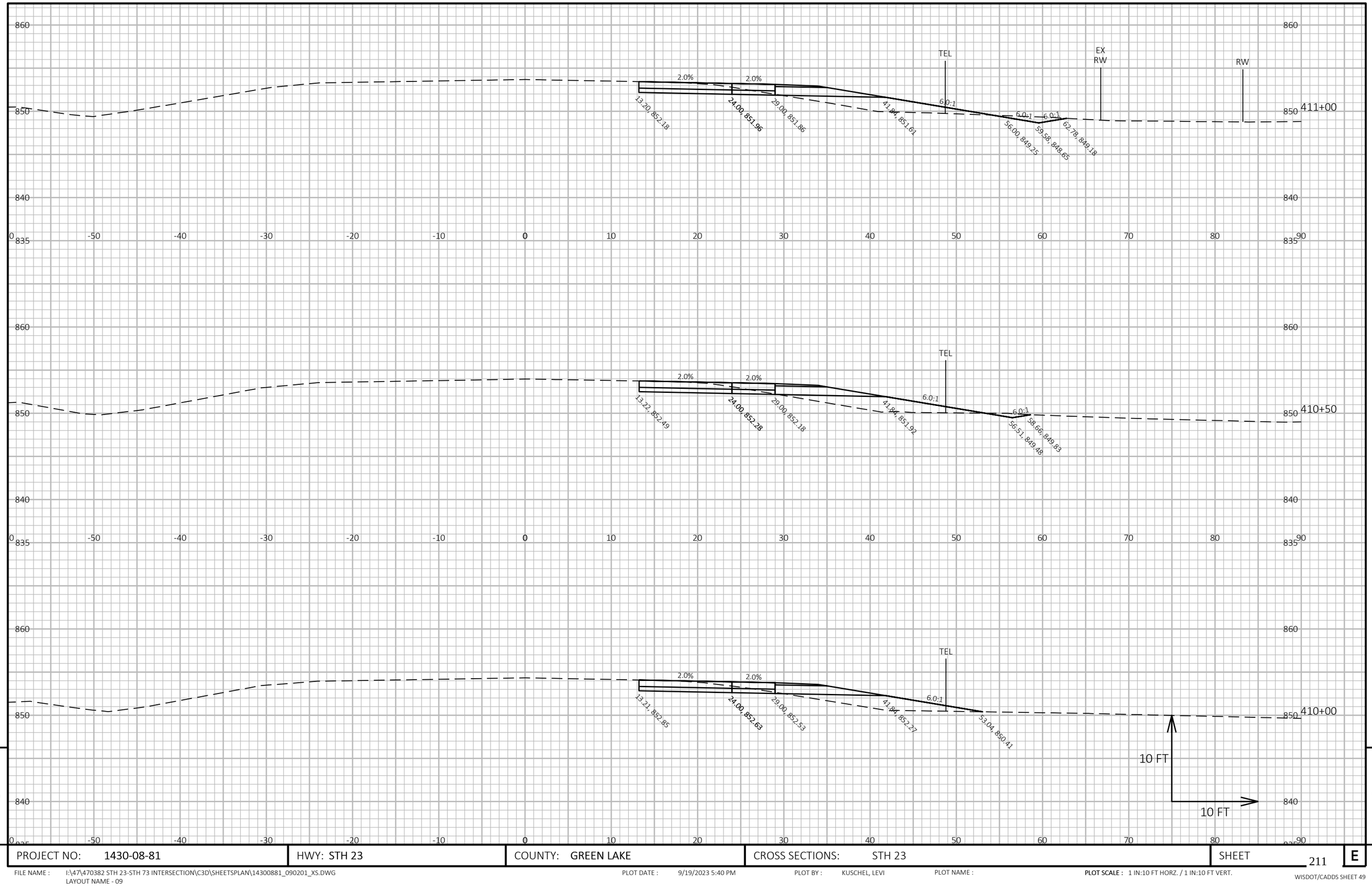


PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 210	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 08

PLOT DATE : 9/19/2023 5:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

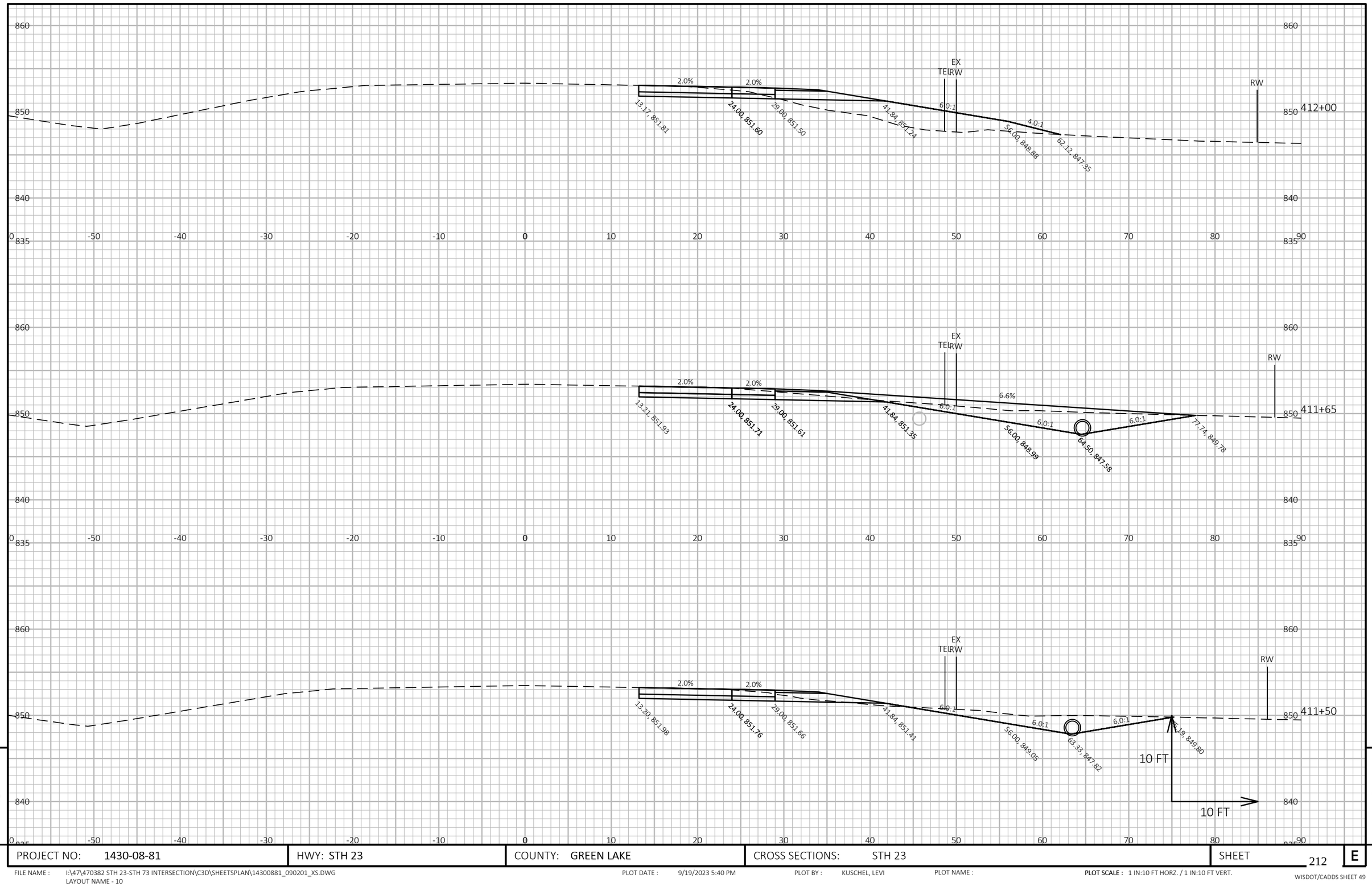


PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 211	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 09

PLOT DATE : 9/19/2023 5:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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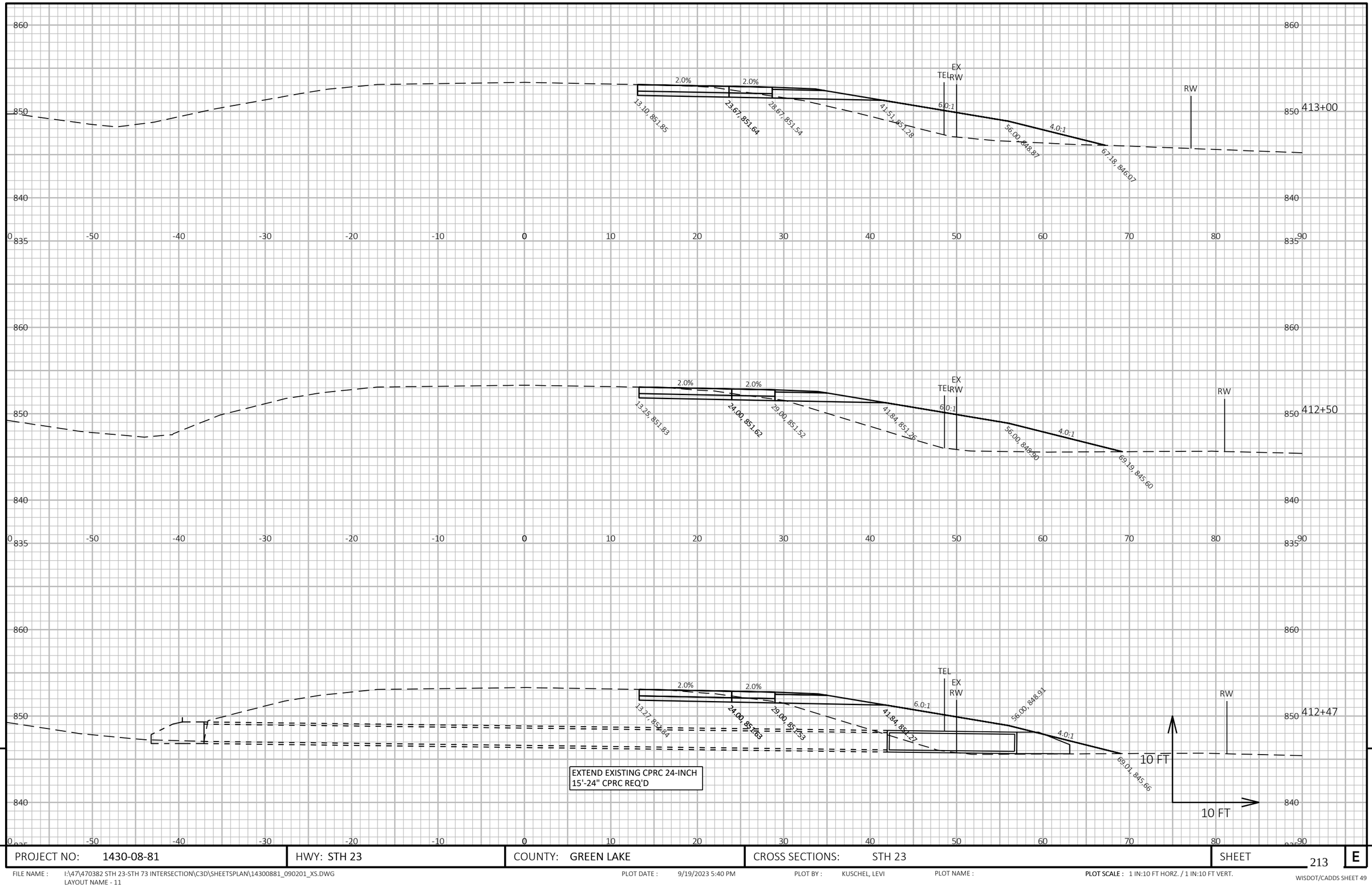
PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 212	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 10

PLOT DATE : 9/19/2023 5:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

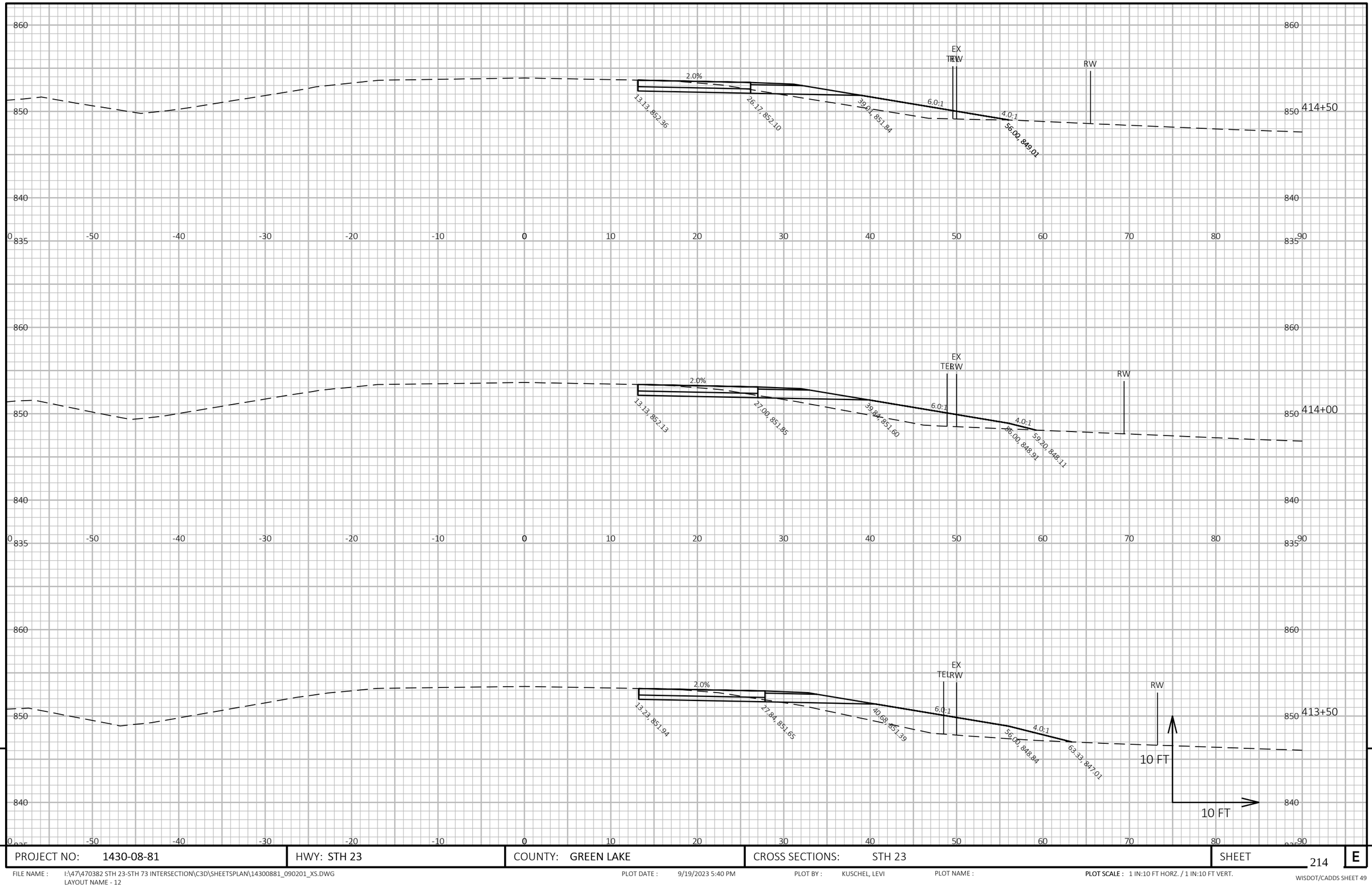


PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 213 E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 11

PLOT DATE : 9/19/2023 5:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 214	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 12

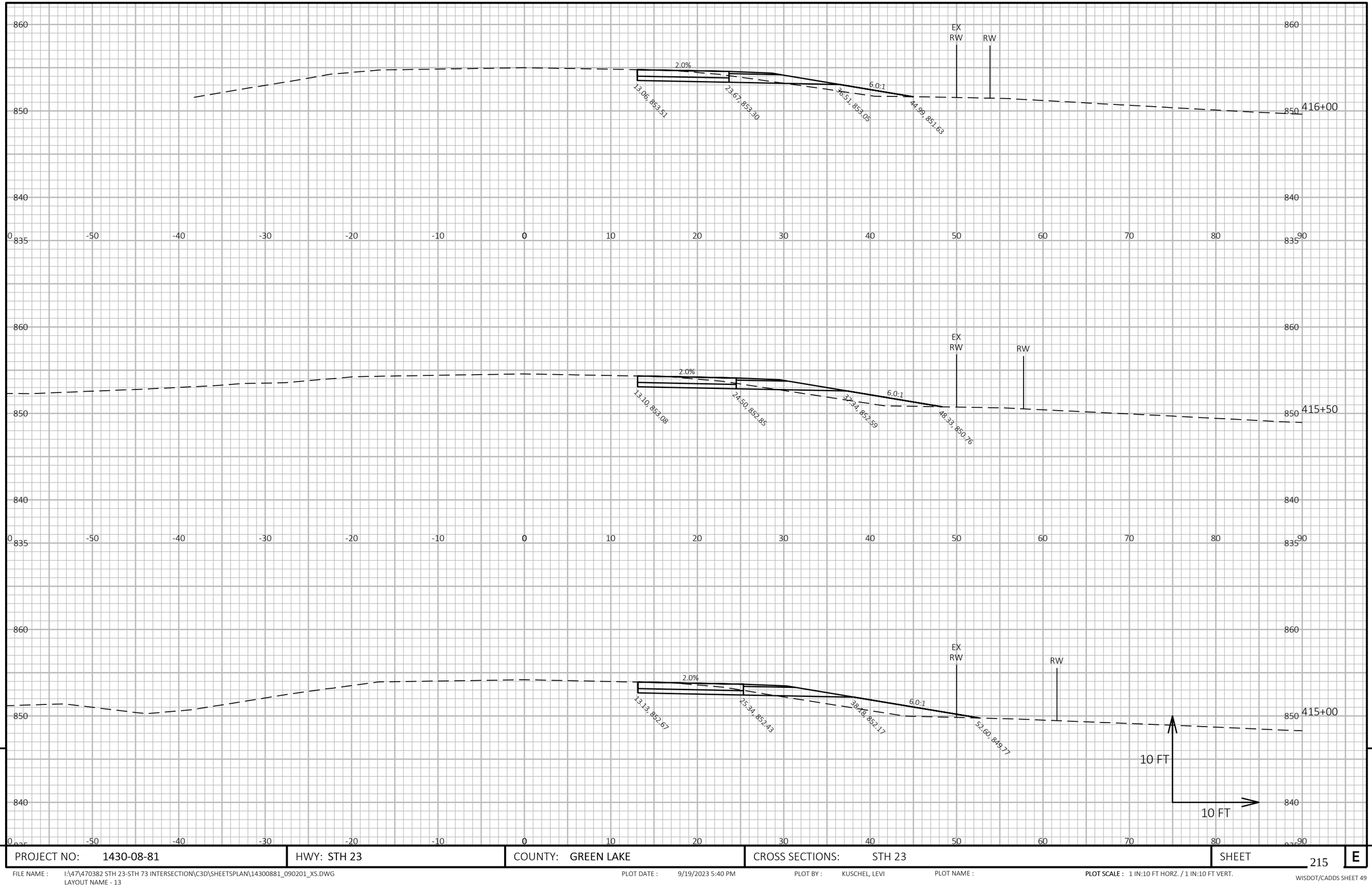
PLOT DATE : 9/19/2023 5:40 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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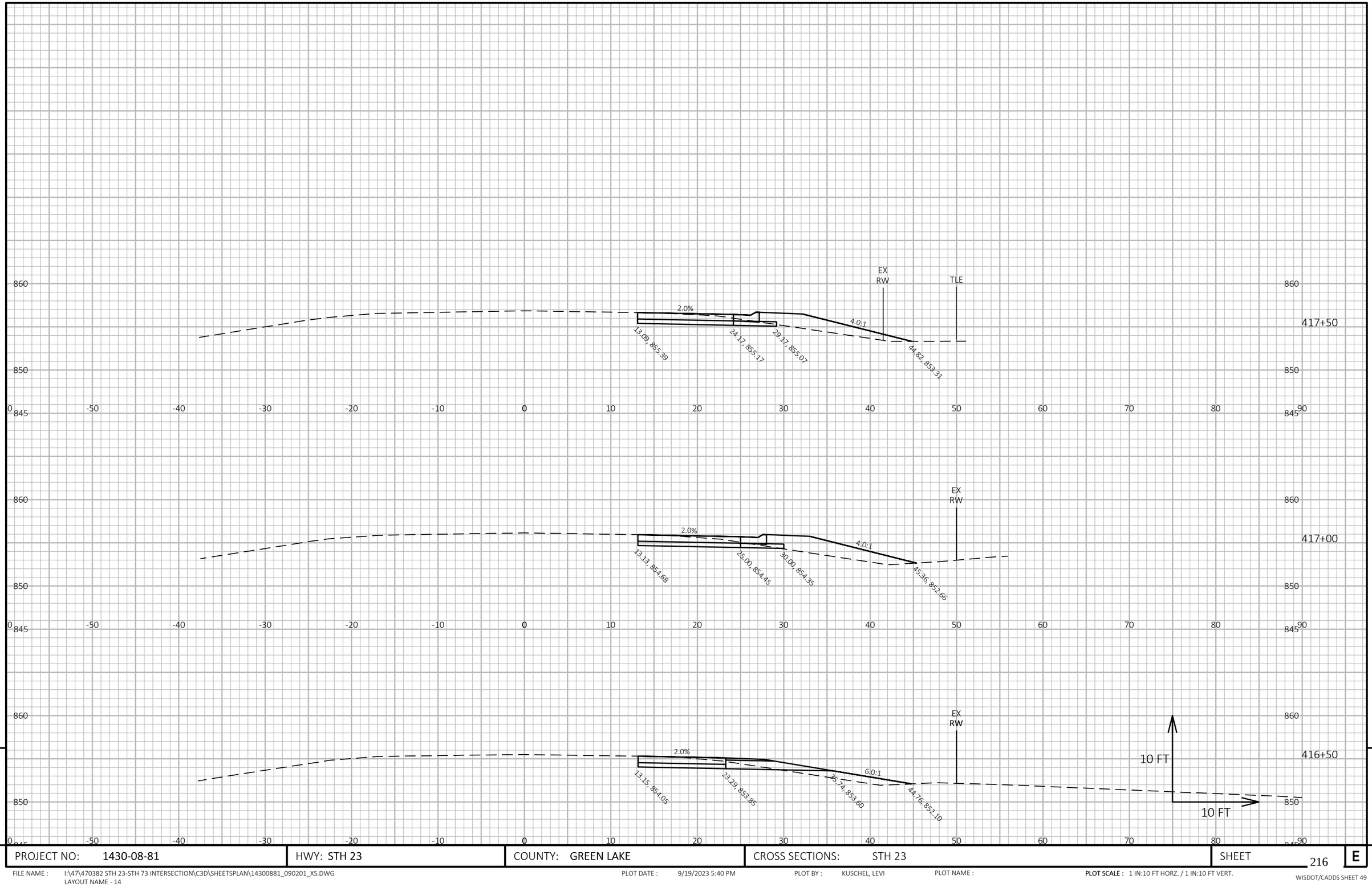
PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 215	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 13

PLOT DATE : 9/19/2023 5:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 216	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 14

PLOT DATE : 9/19/2023 5:40 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9

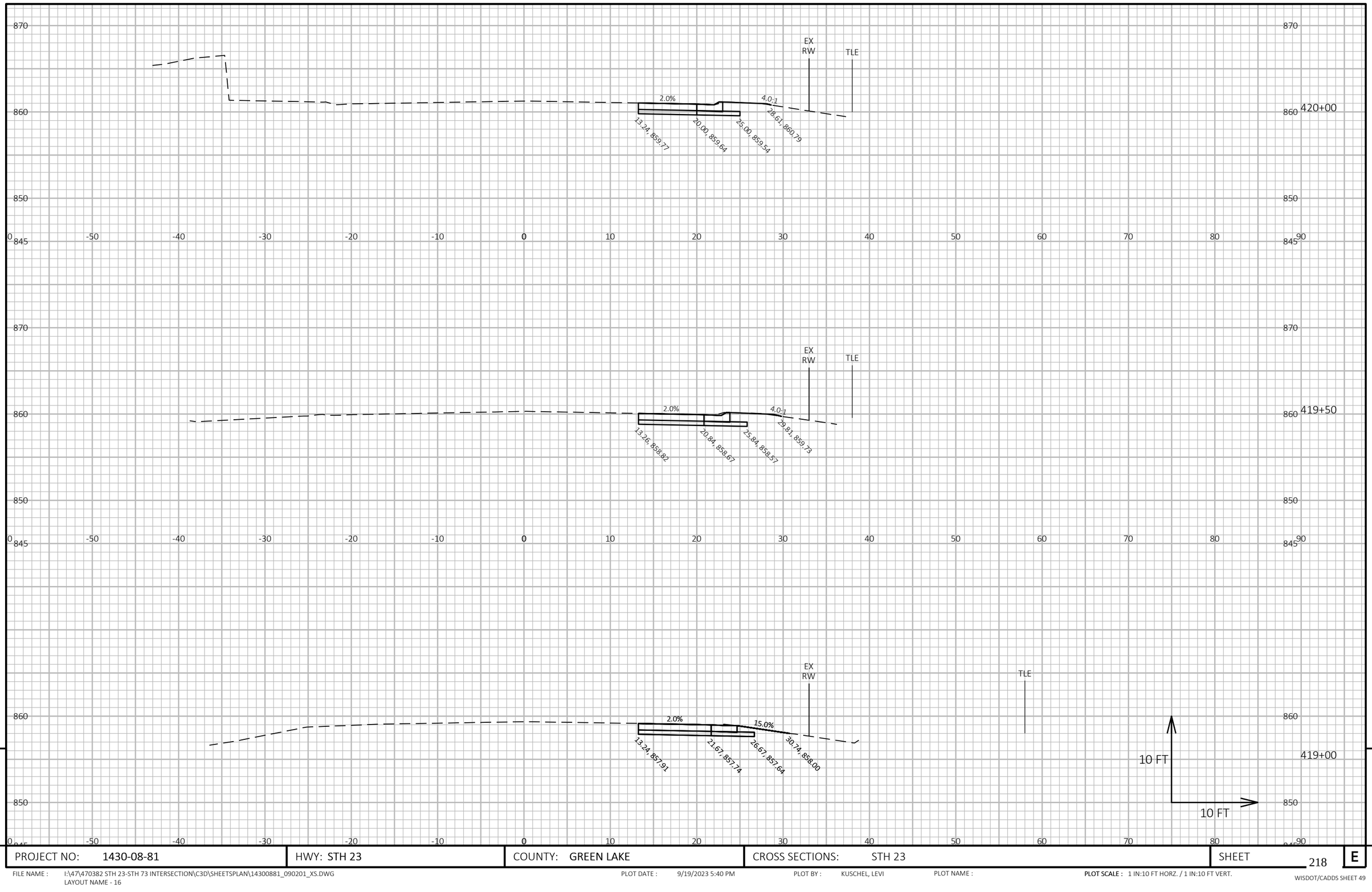
9

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 217	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 15

PLOT DATE : 9/19/2023 5:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



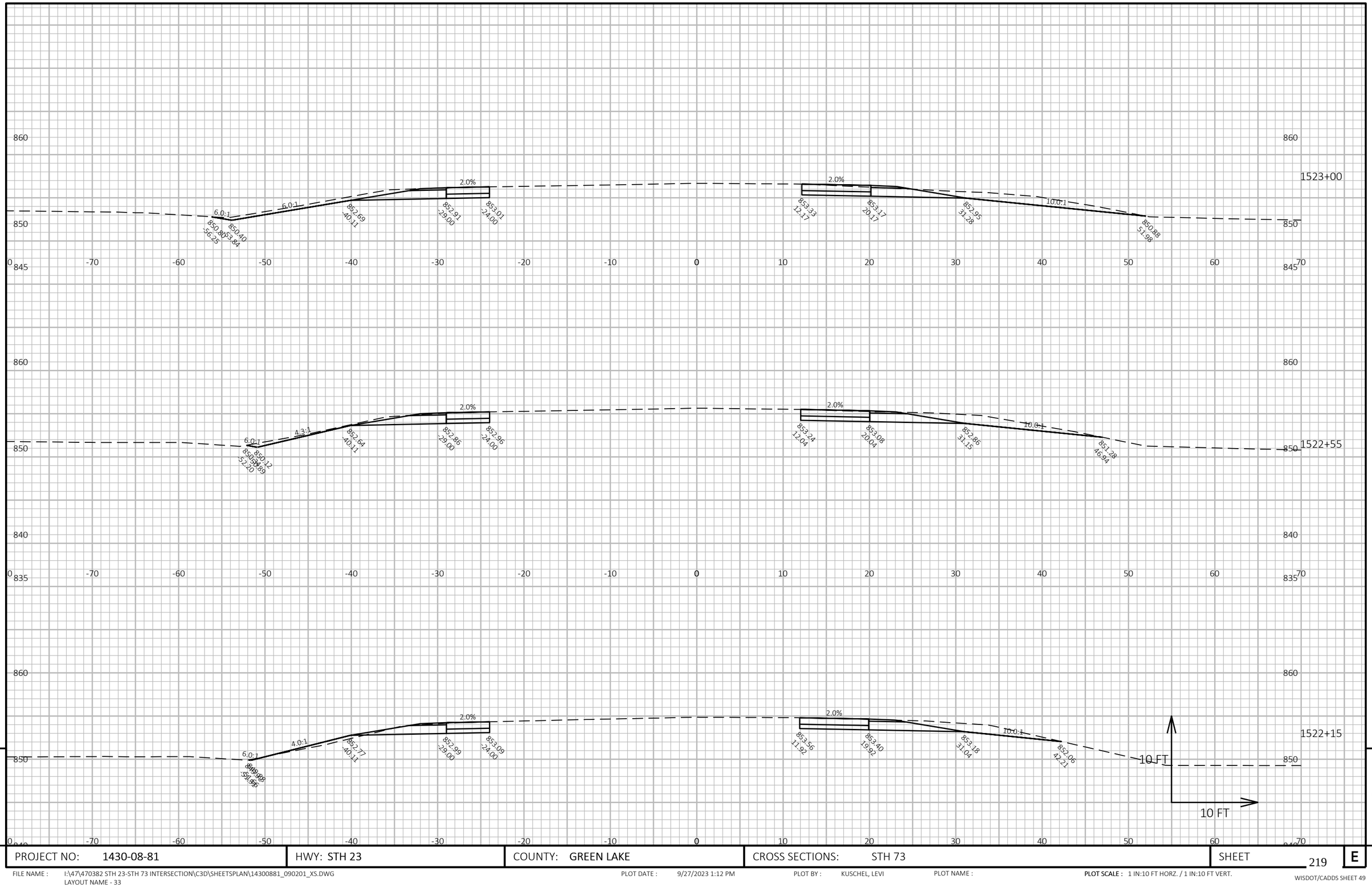
9

9

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 23	SHEET 218	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 16

PLOT DATE : 9/19/2023 5:40 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 1430-08-81	HWY: STH 23	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 219	E

FILE NAME : I:\47\470382 STH 23-STH 73 INTERSECTION\C3D\SHEETSPLAN\14300881_090201_XS.DWG
LAYOUT NAME - 33

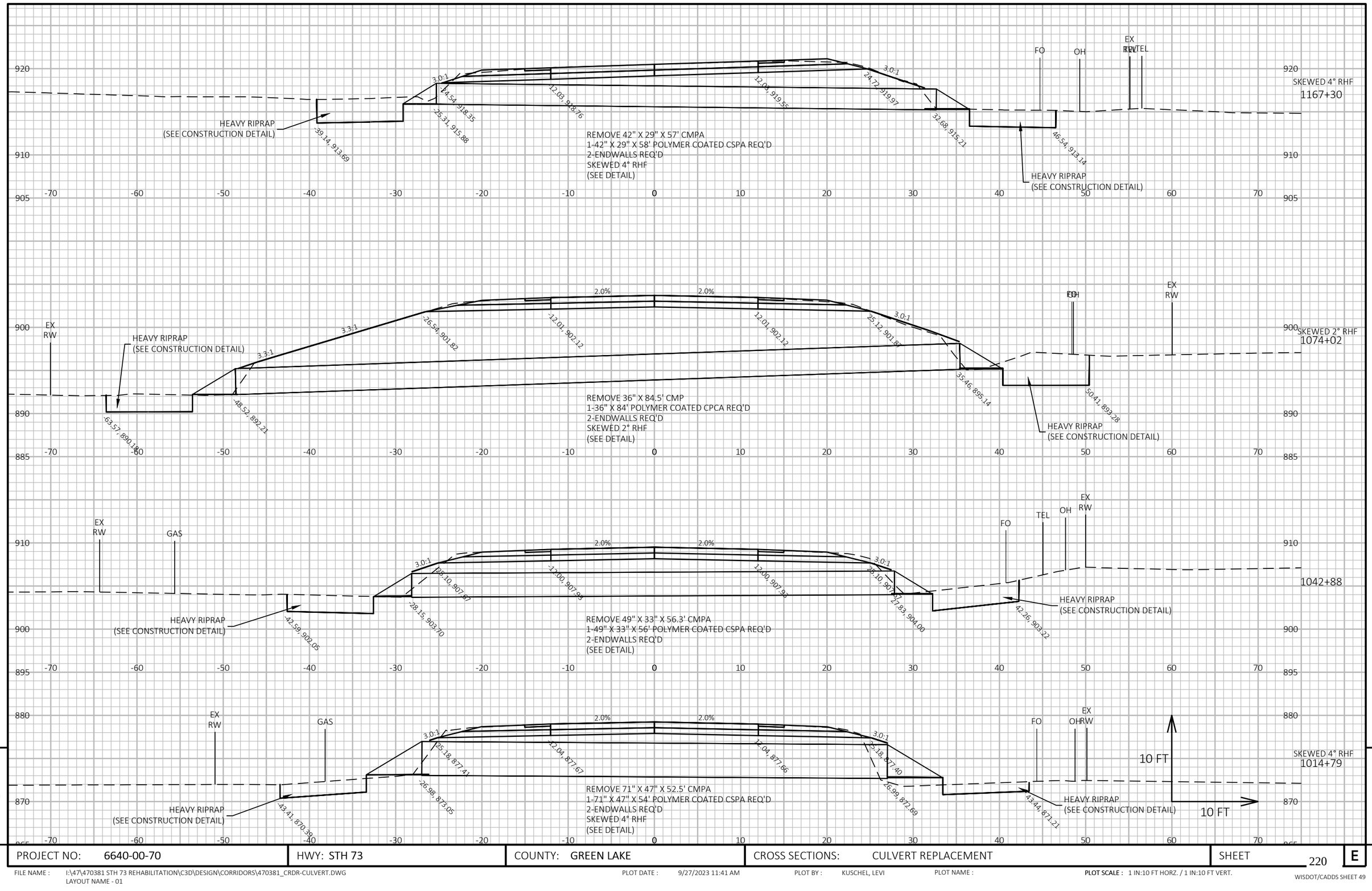
PLOT DATE : 9/27/2023 1:12 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

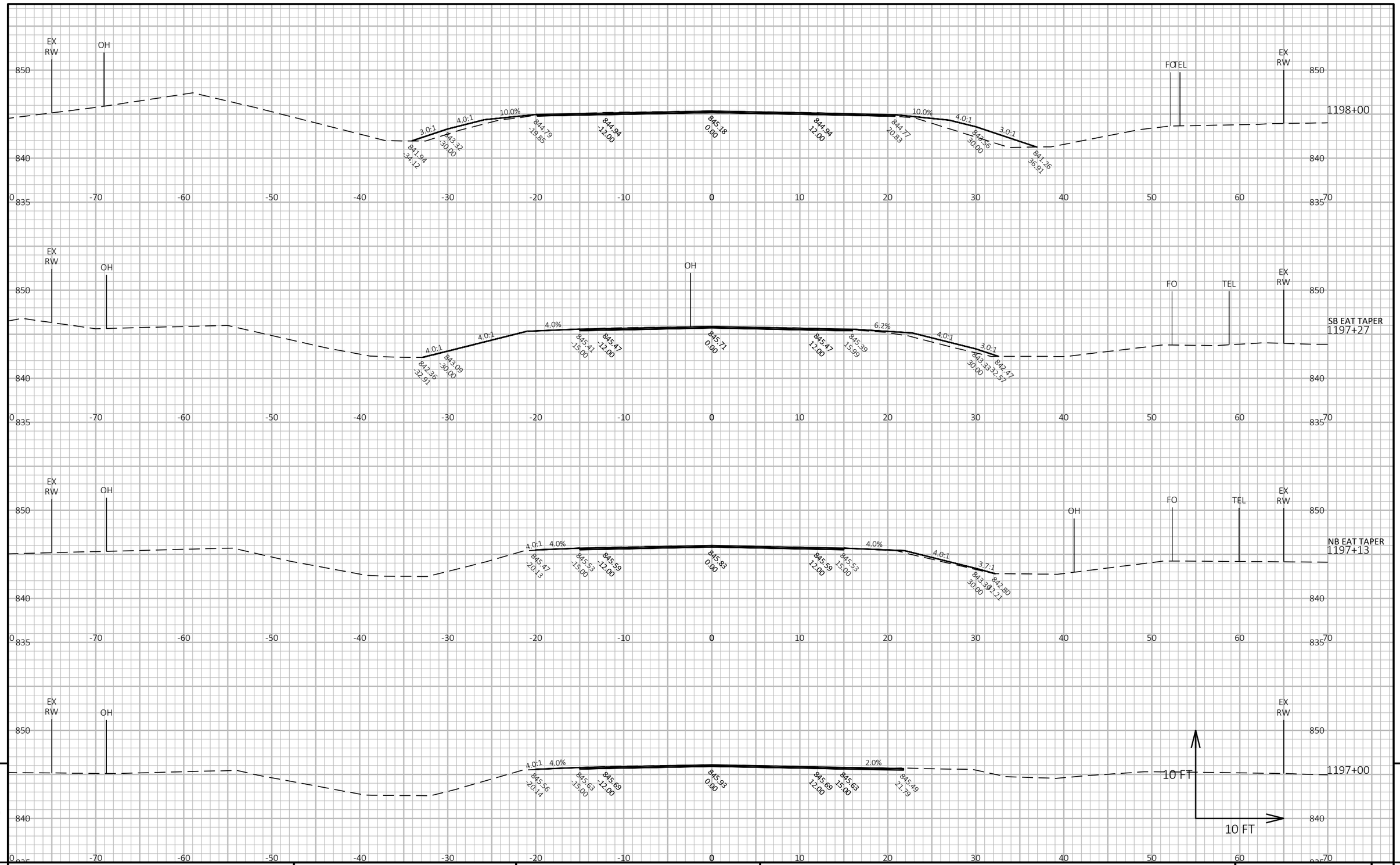
9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: CULVERT REPLACEMENT	SHEET 220	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR-CULVERT.DWG
LAYOUT NAME - 01

PLOT DATE : 9/27/2023 11:41 AM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 221	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 01

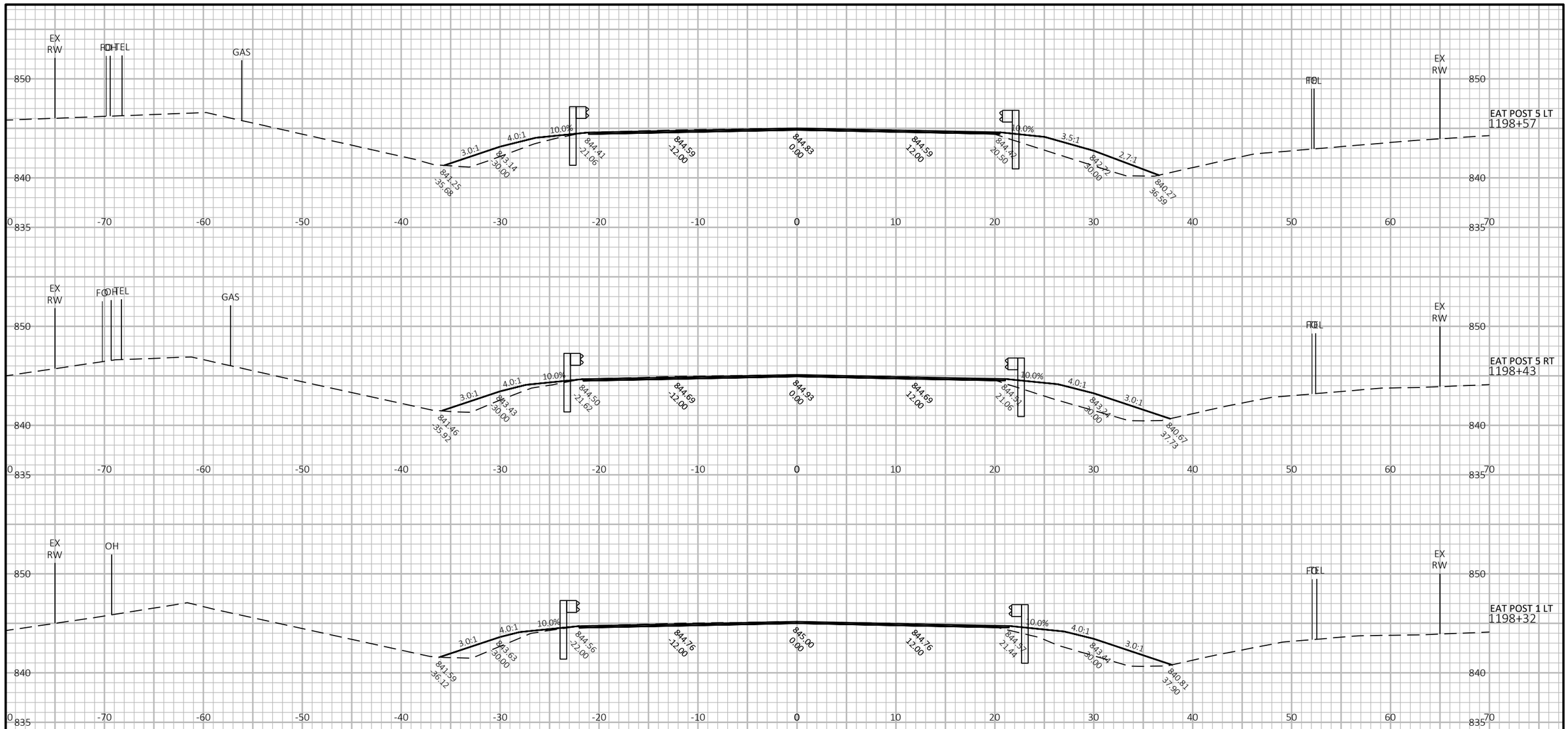
PLOT DATE : 9/27/2023 3:15 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

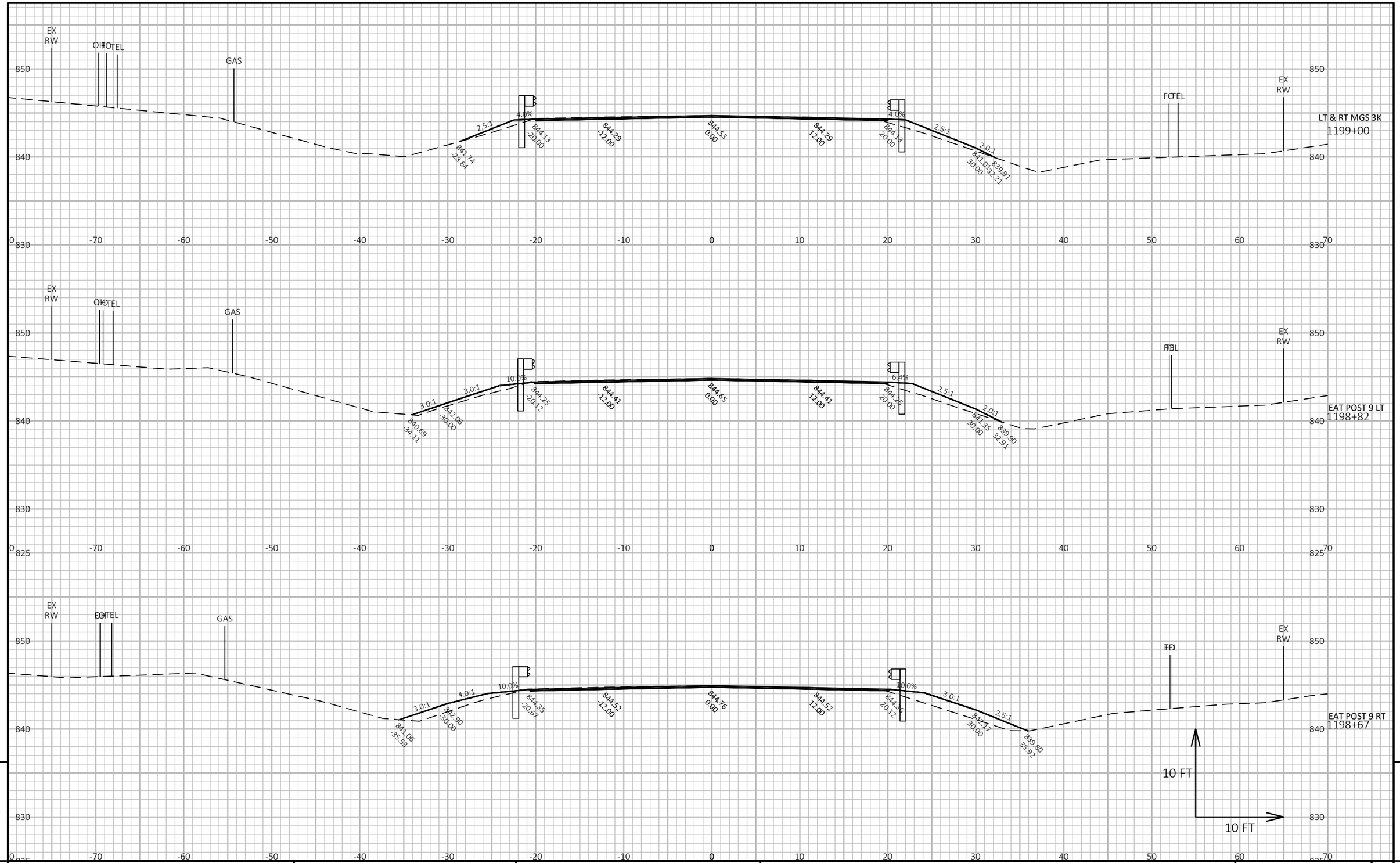


9 9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 222	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 02

PLOT DATE : 9/27/2023 3:15 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

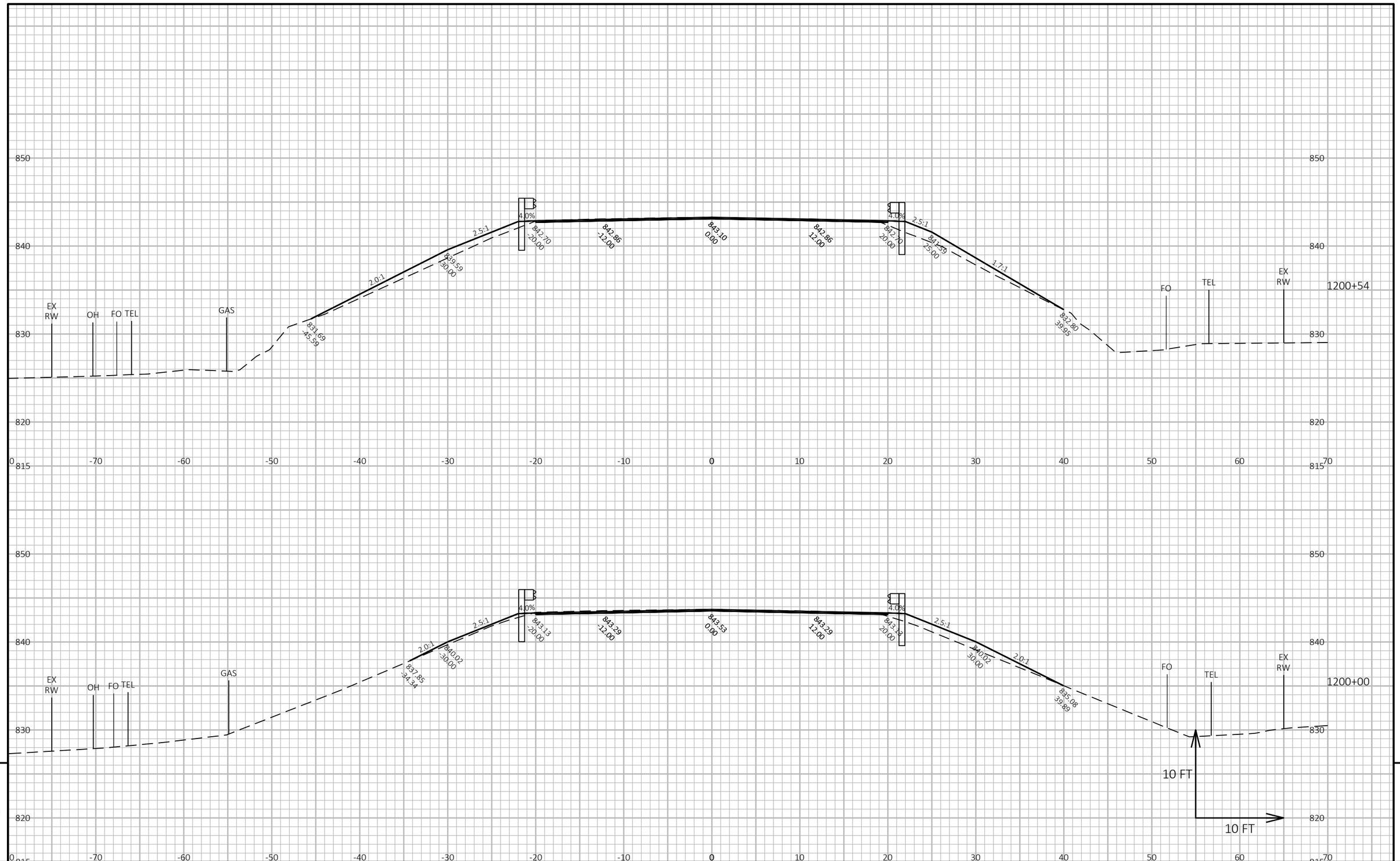
9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 223	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 03

PLOT DATE : 9/27/2023 3:15 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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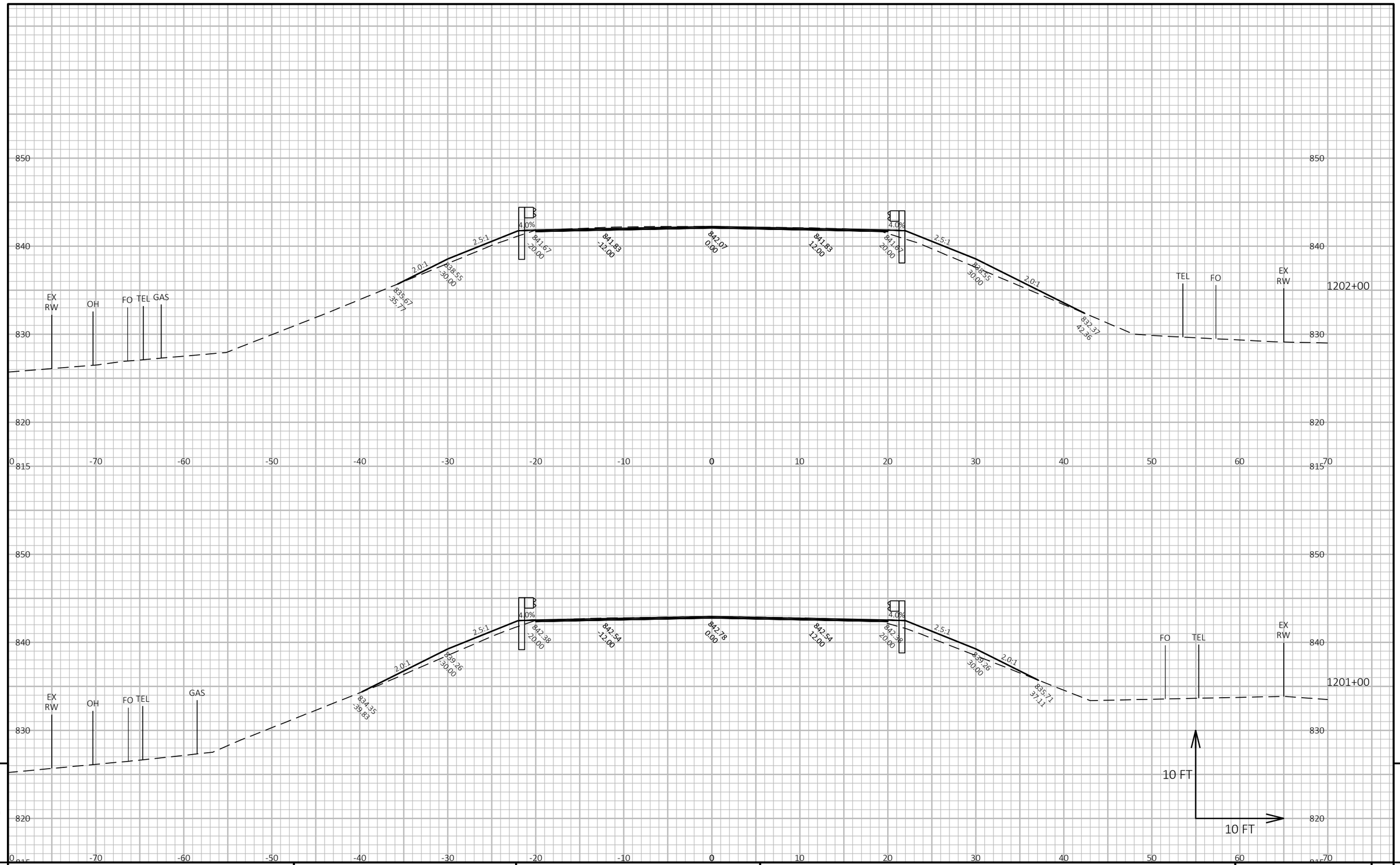
9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 224	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 04

PLOT DATE : 9/27/2023 3:15 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

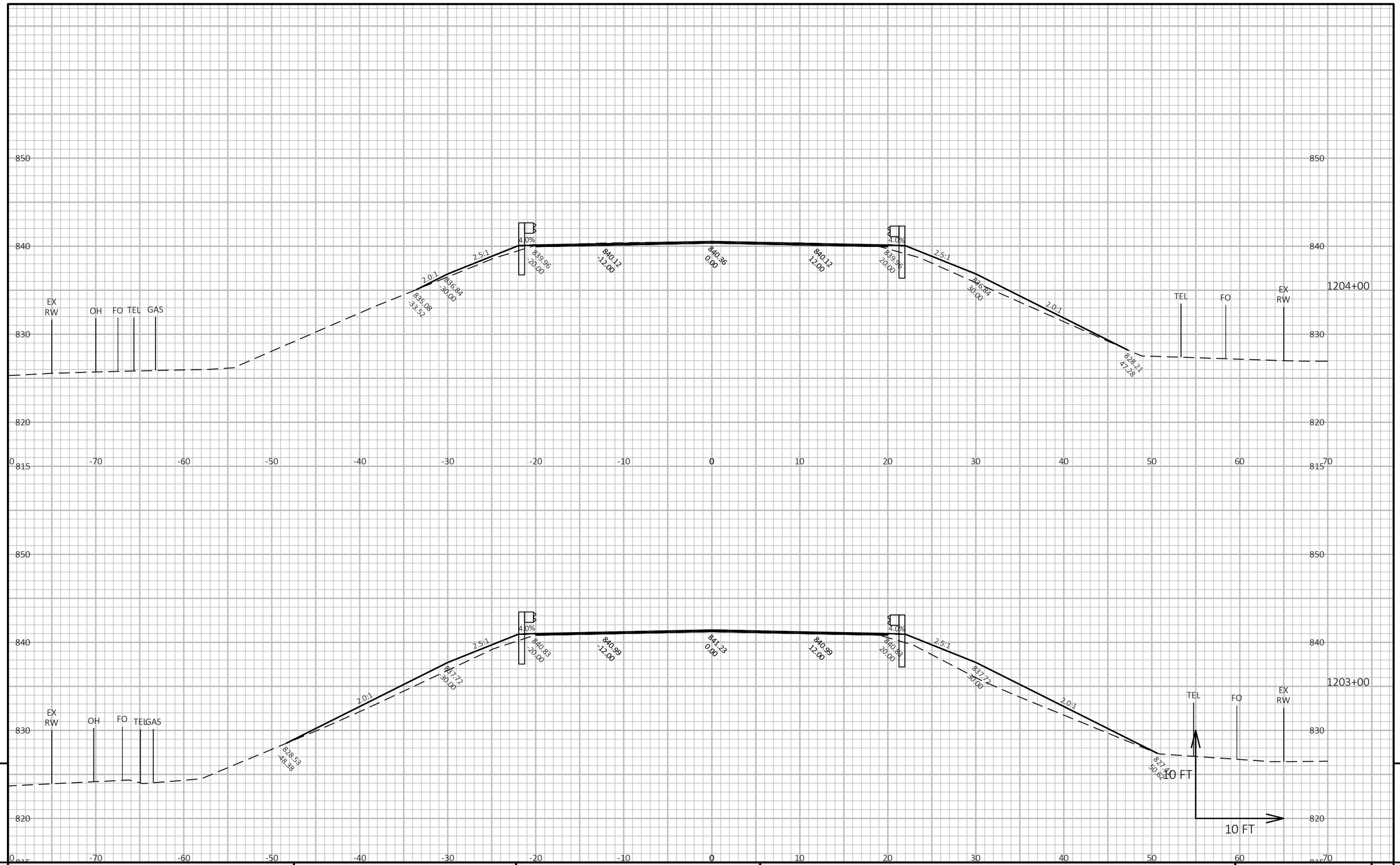


PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 225	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 05

PLOT DATE : 9/27/2023 3:15 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 226	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 15

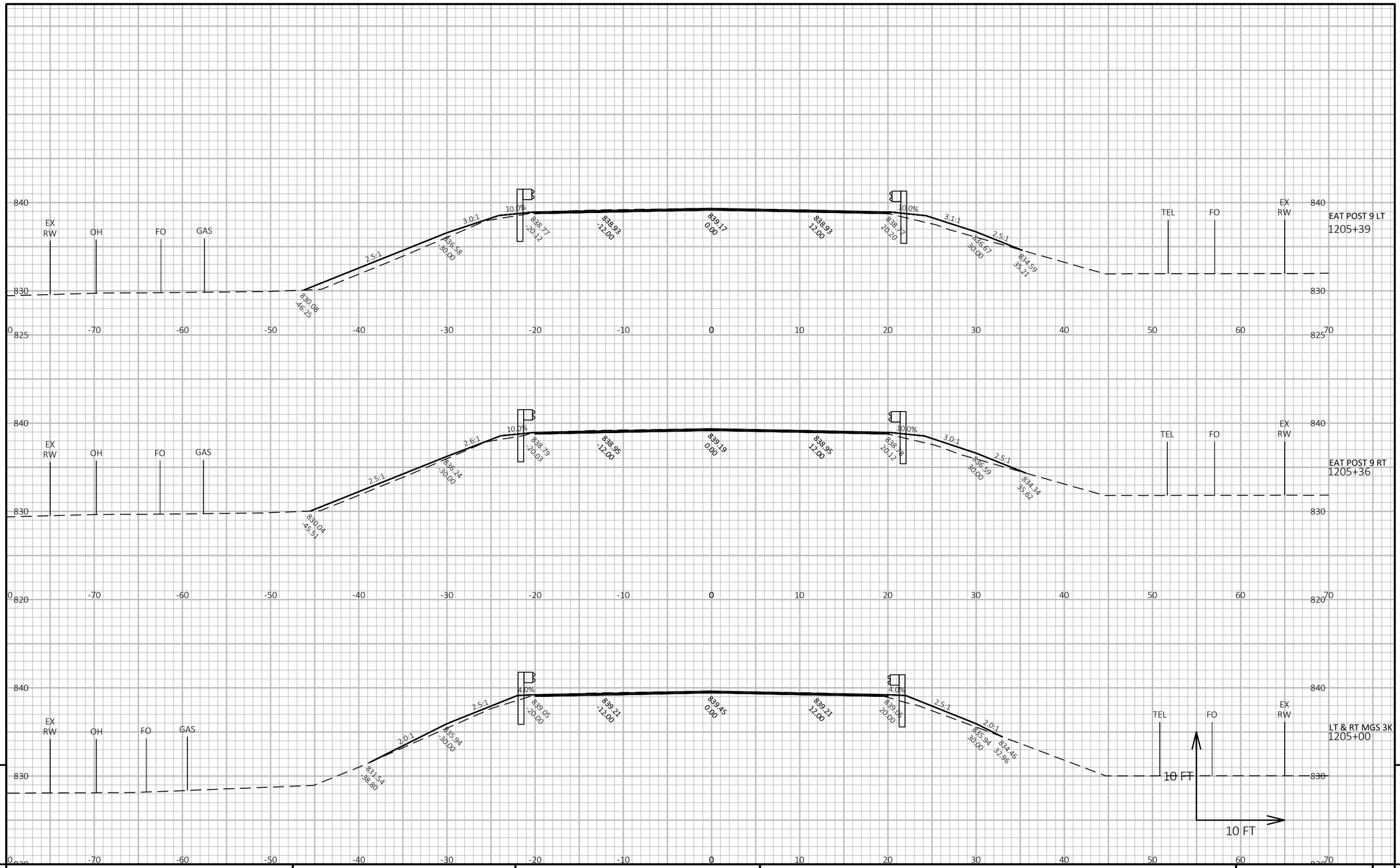
PLOT DATE : 9/27/2023 3:15 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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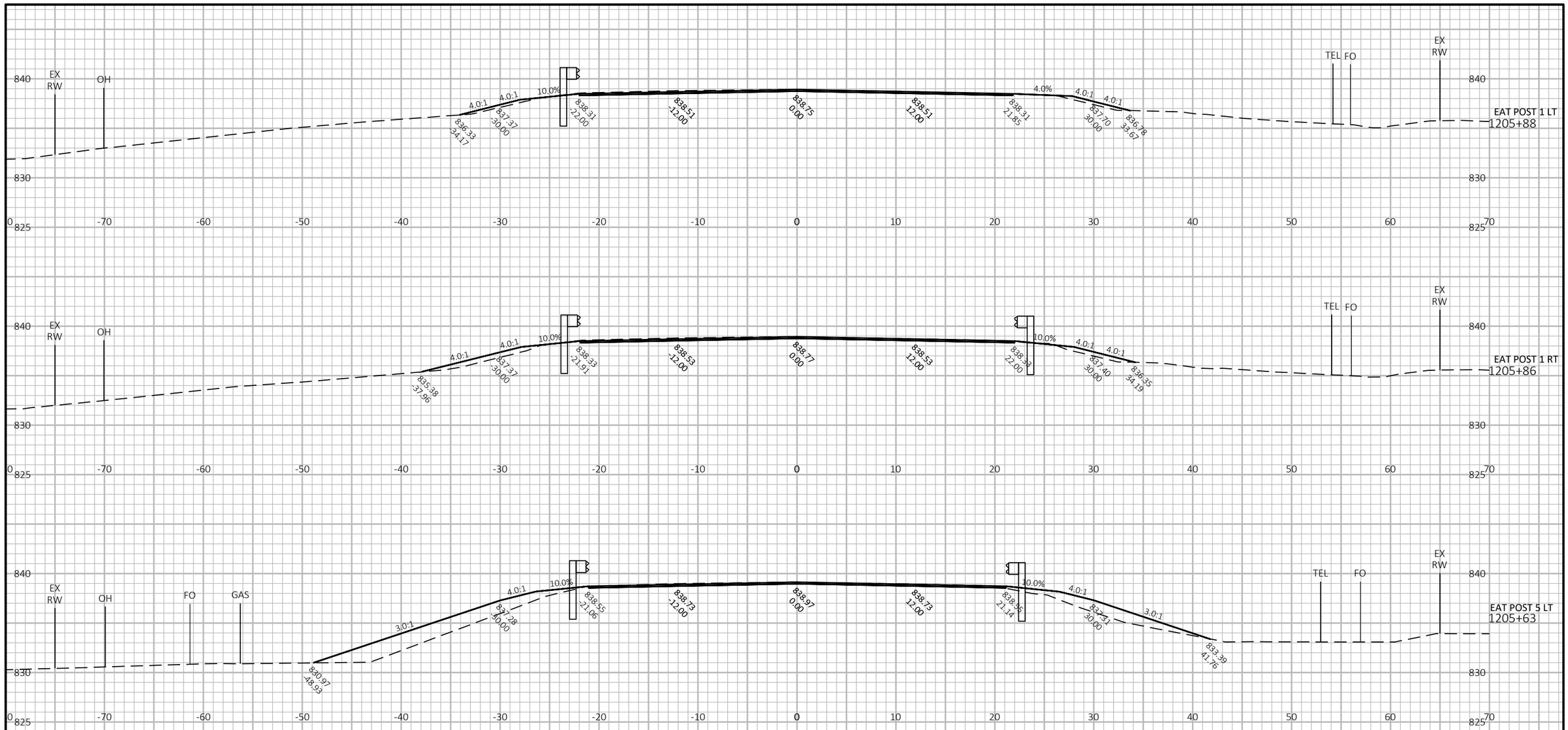
PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 227	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 16

PLOT DATE : 9/27/2023 3:15 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 228	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 17

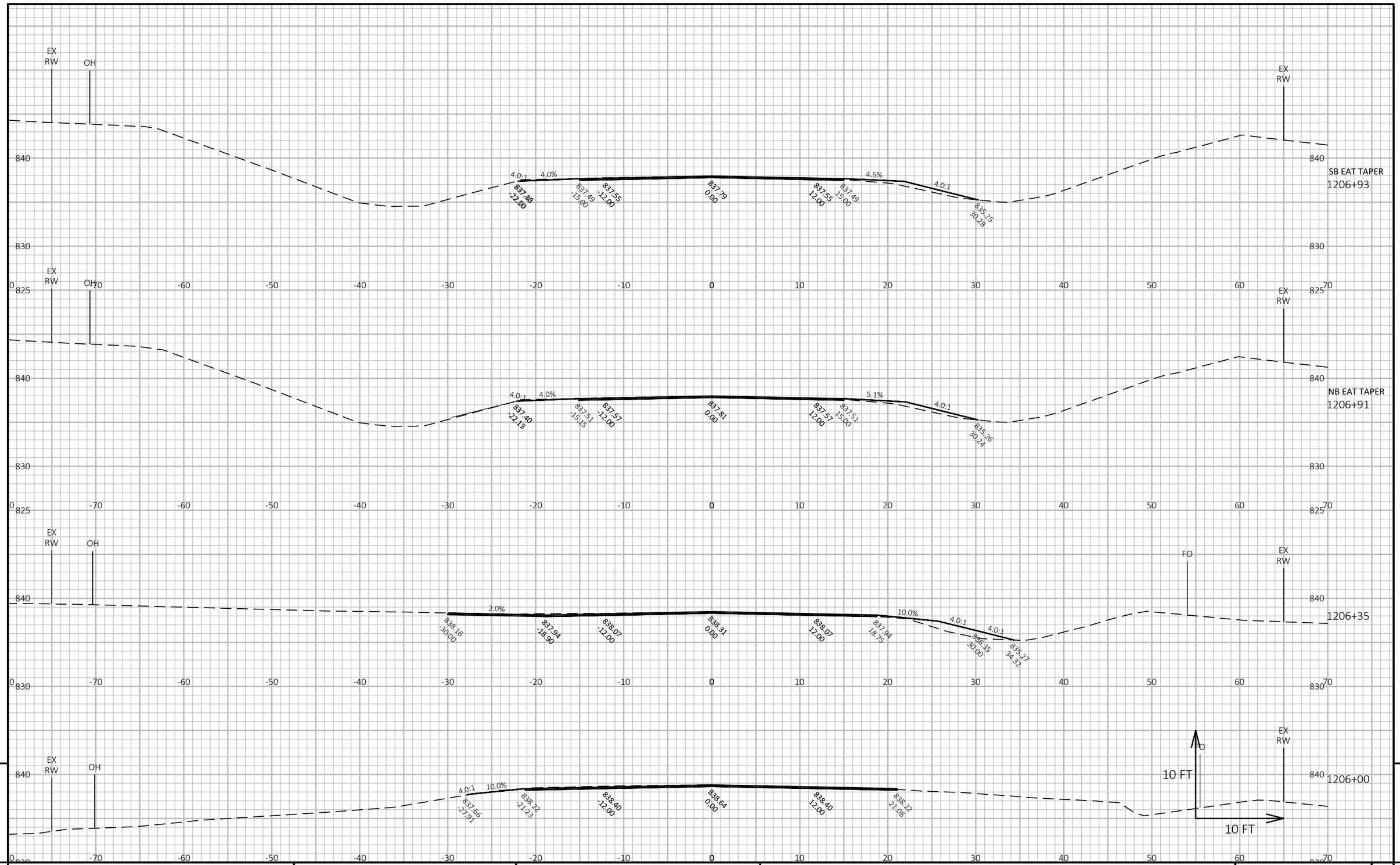
PLOT DATE : 9/27/2023 3:15 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

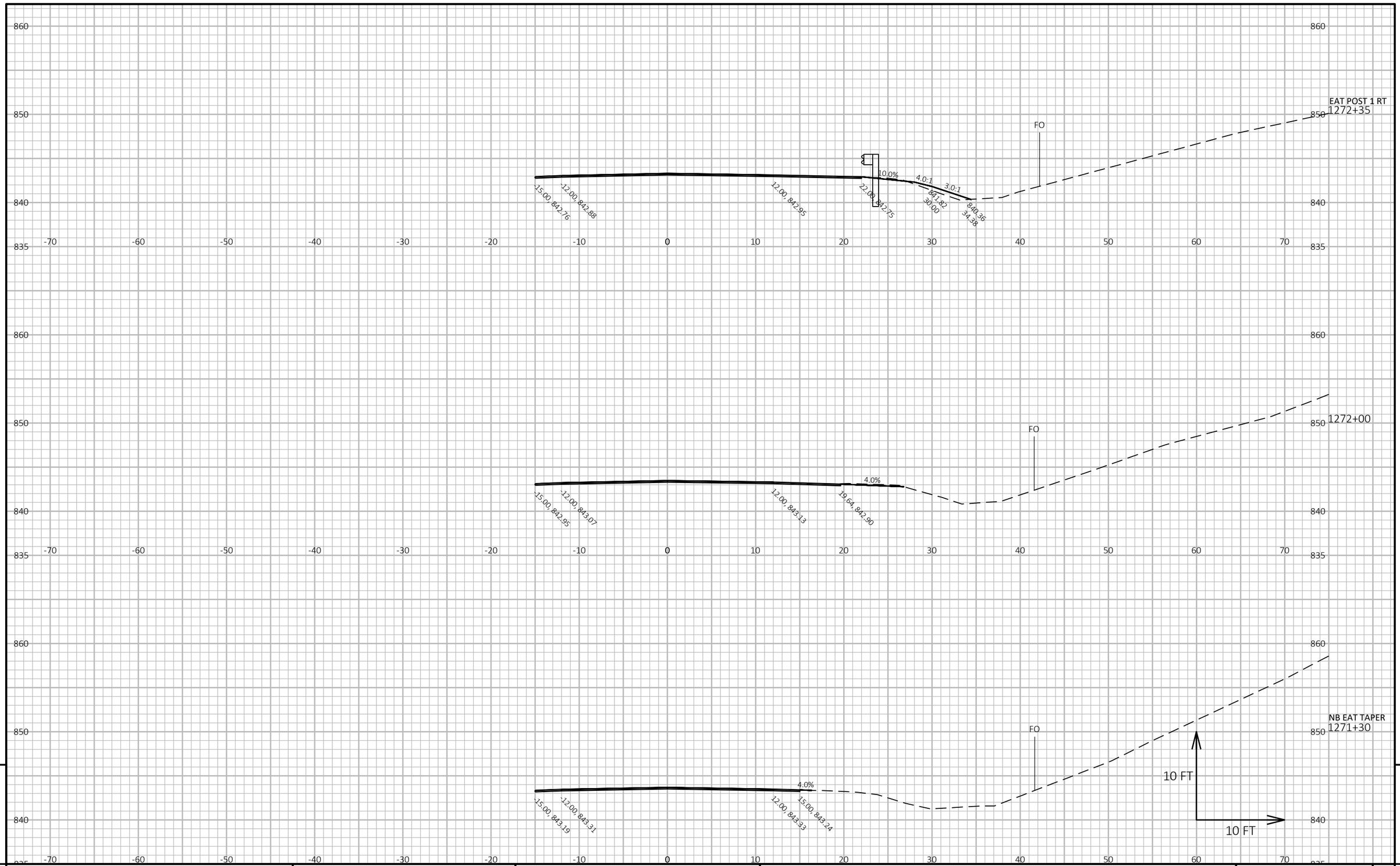


PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 229	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 18

PLOT DATE : 9/27/2023 3:15 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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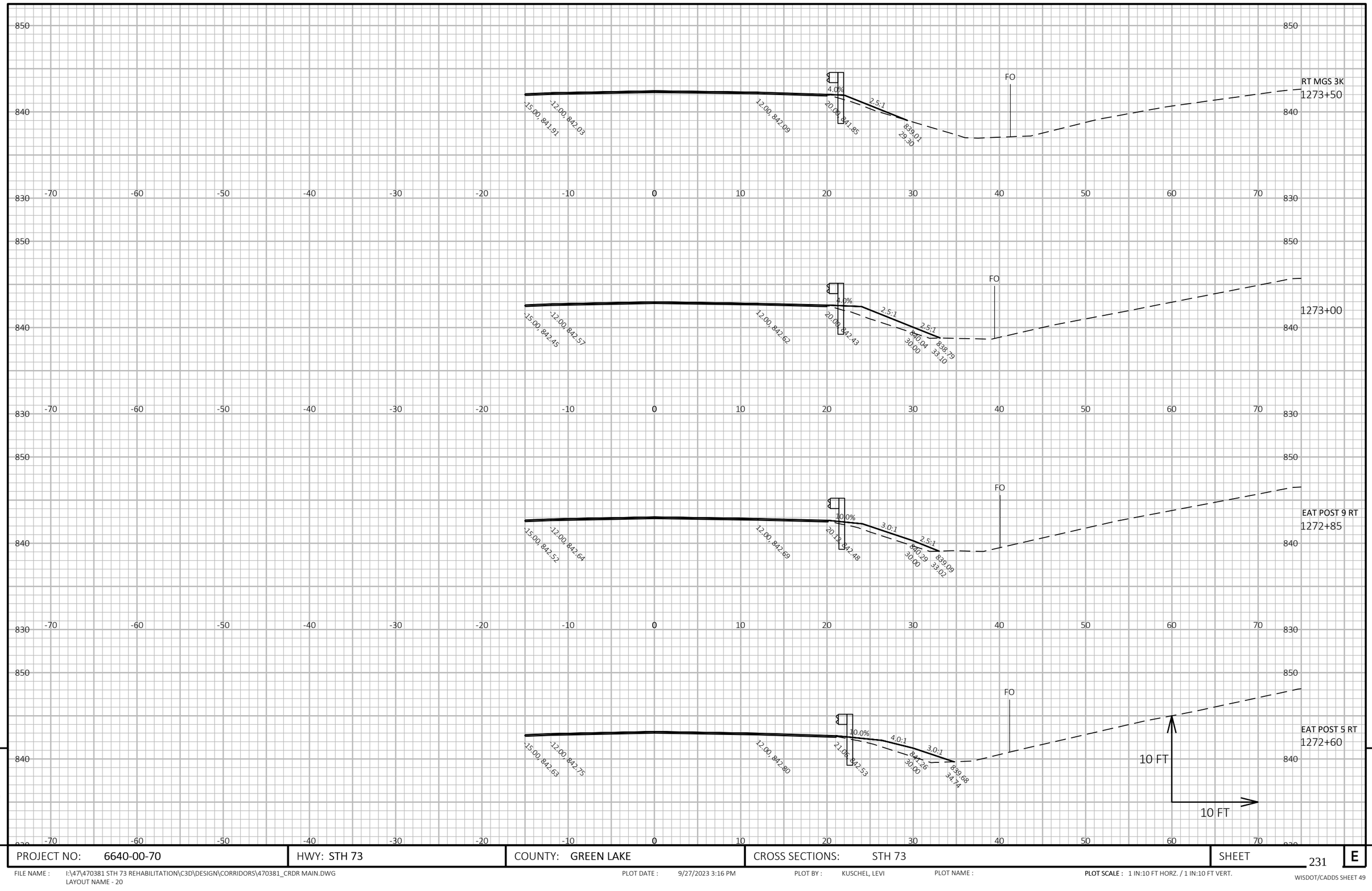
PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 230	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 19

PLOT DATE : 9/27/2023 3:15 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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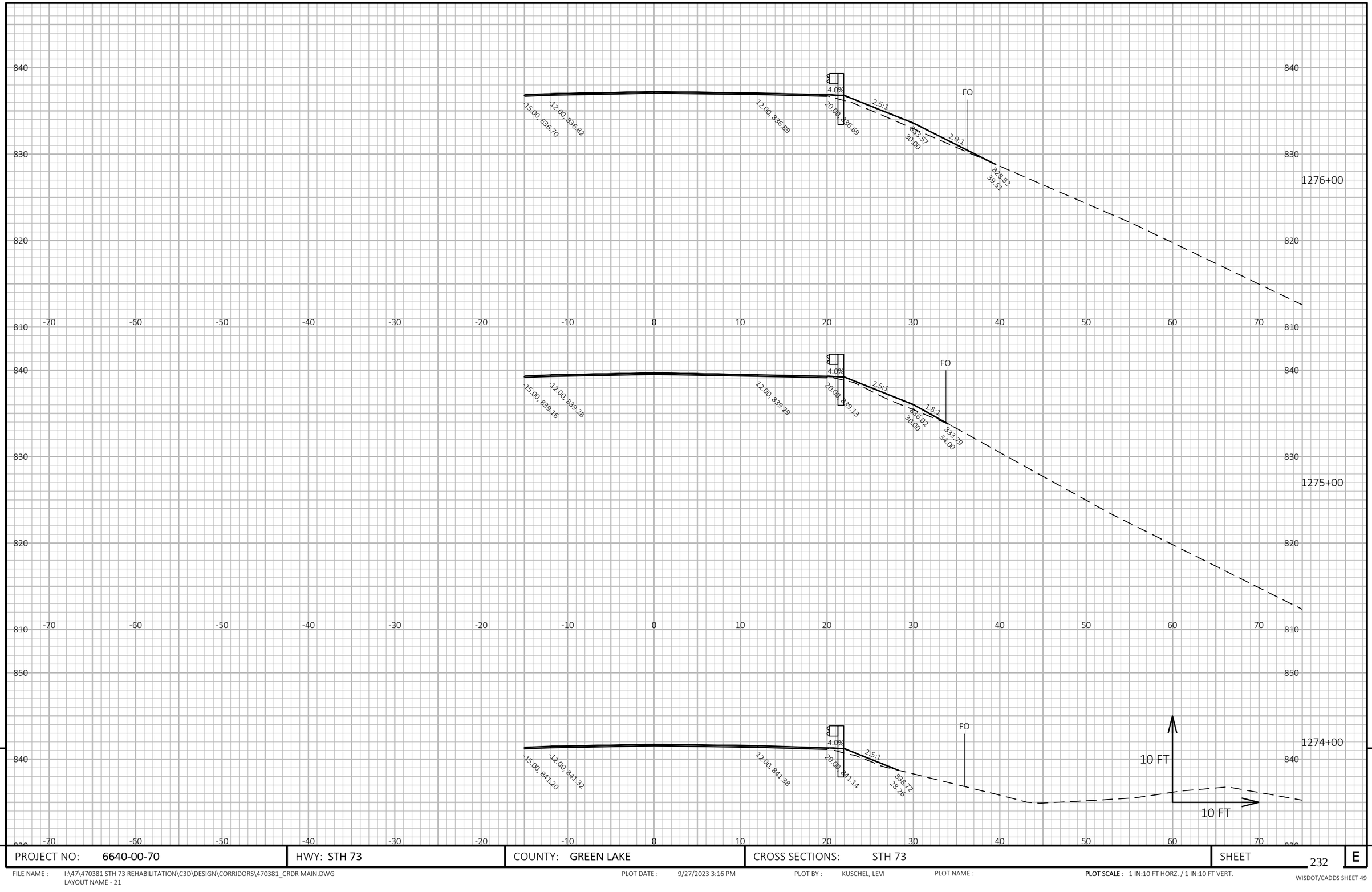
PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 231	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 20

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



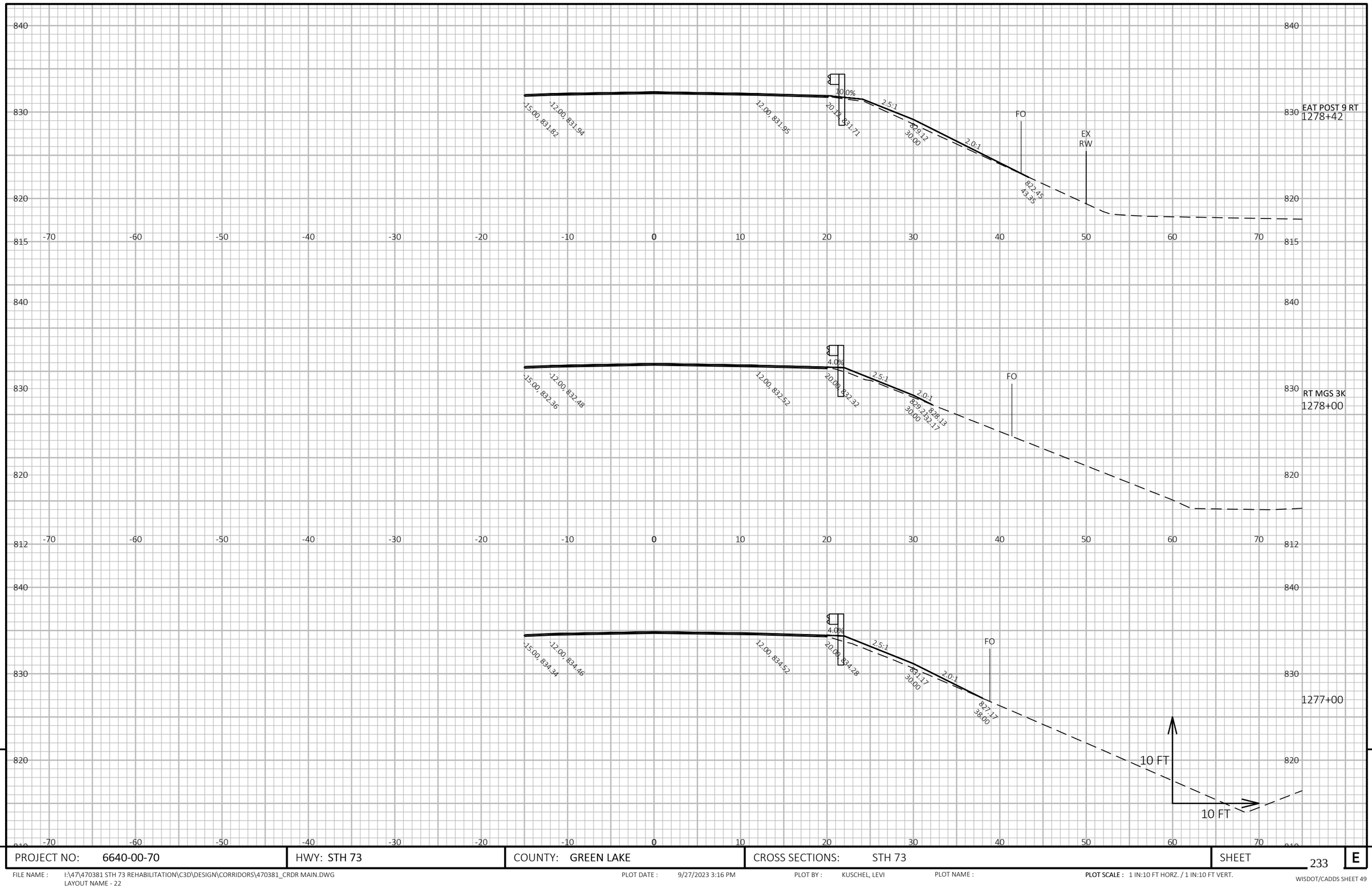
9 9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 232	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 21

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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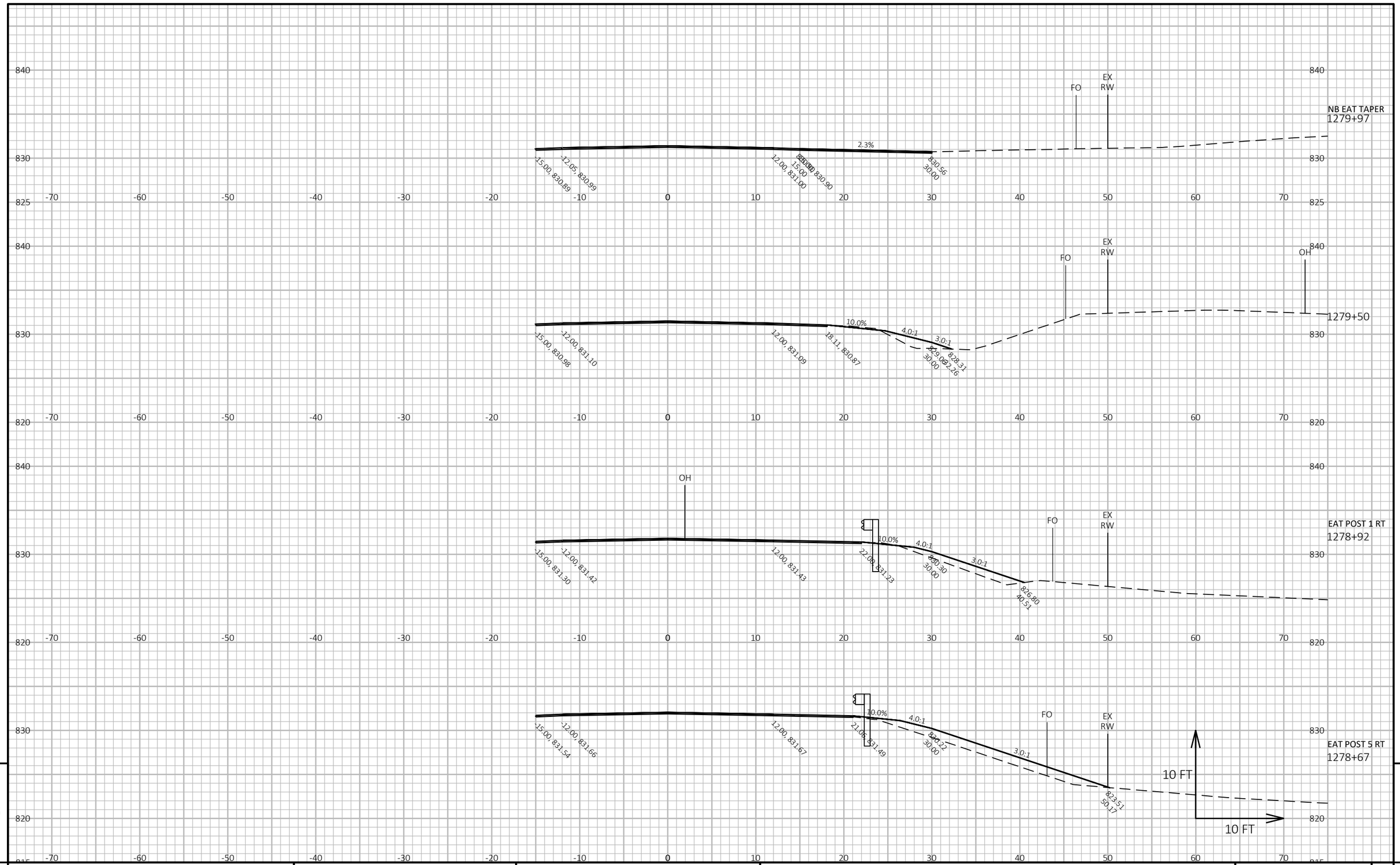
PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 233	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 22

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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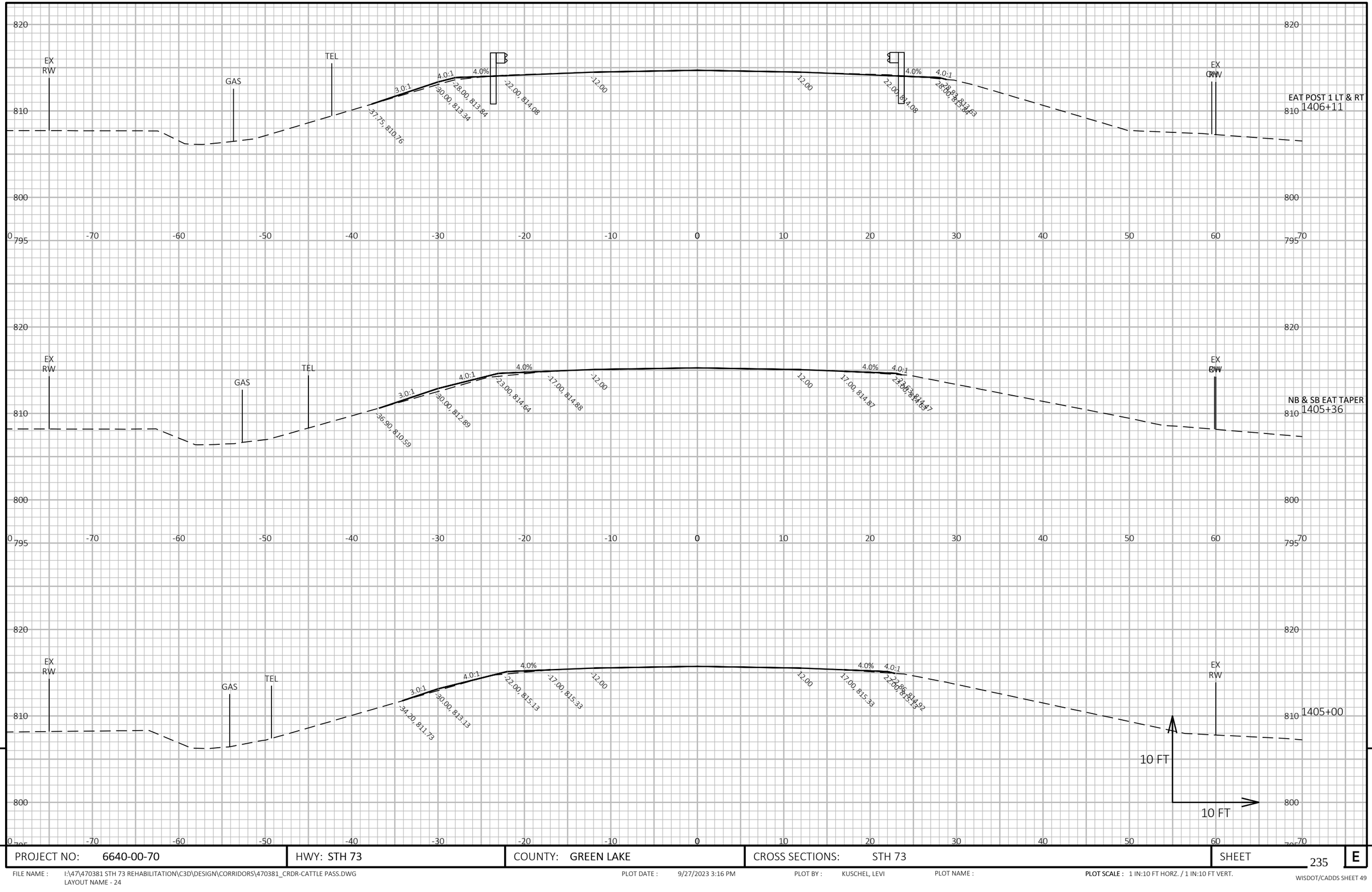
PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 234	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 23

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

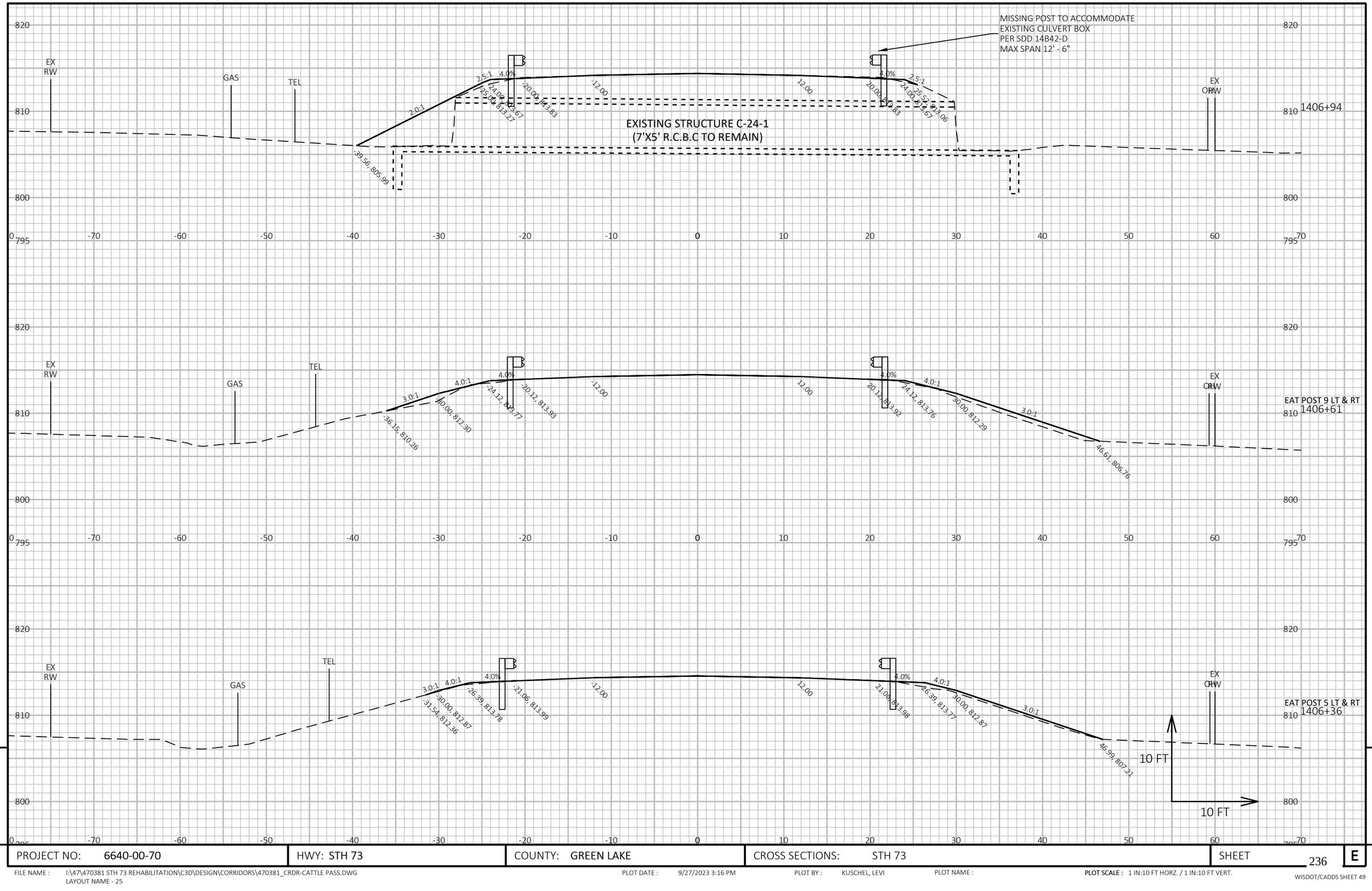
9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 235	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR-CATTLE PASS.DWG
LAYOUT NAME - 24

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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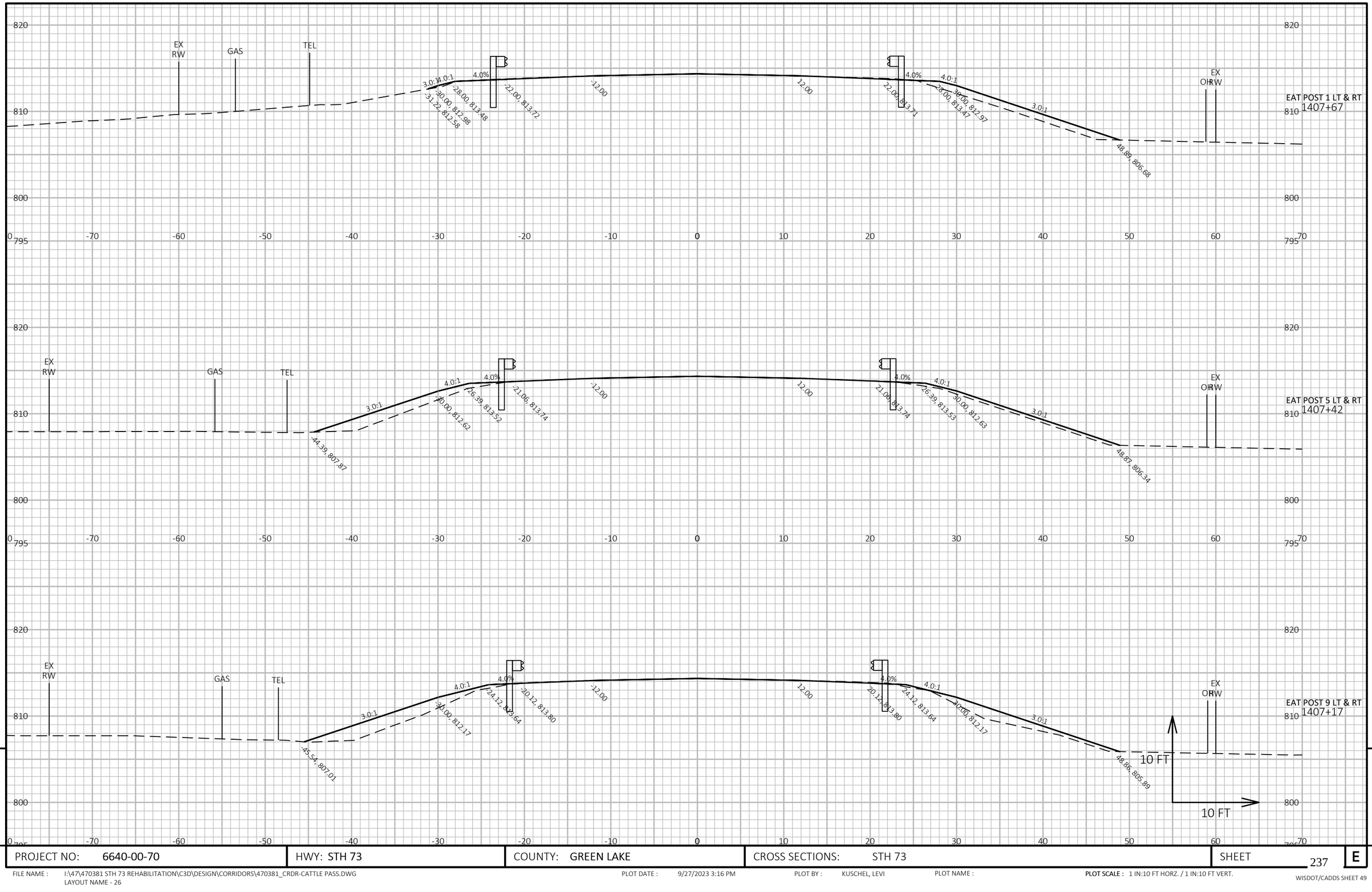
PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 236	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR-CATTLE PASS.DWG
LAYOUT NAME - 25

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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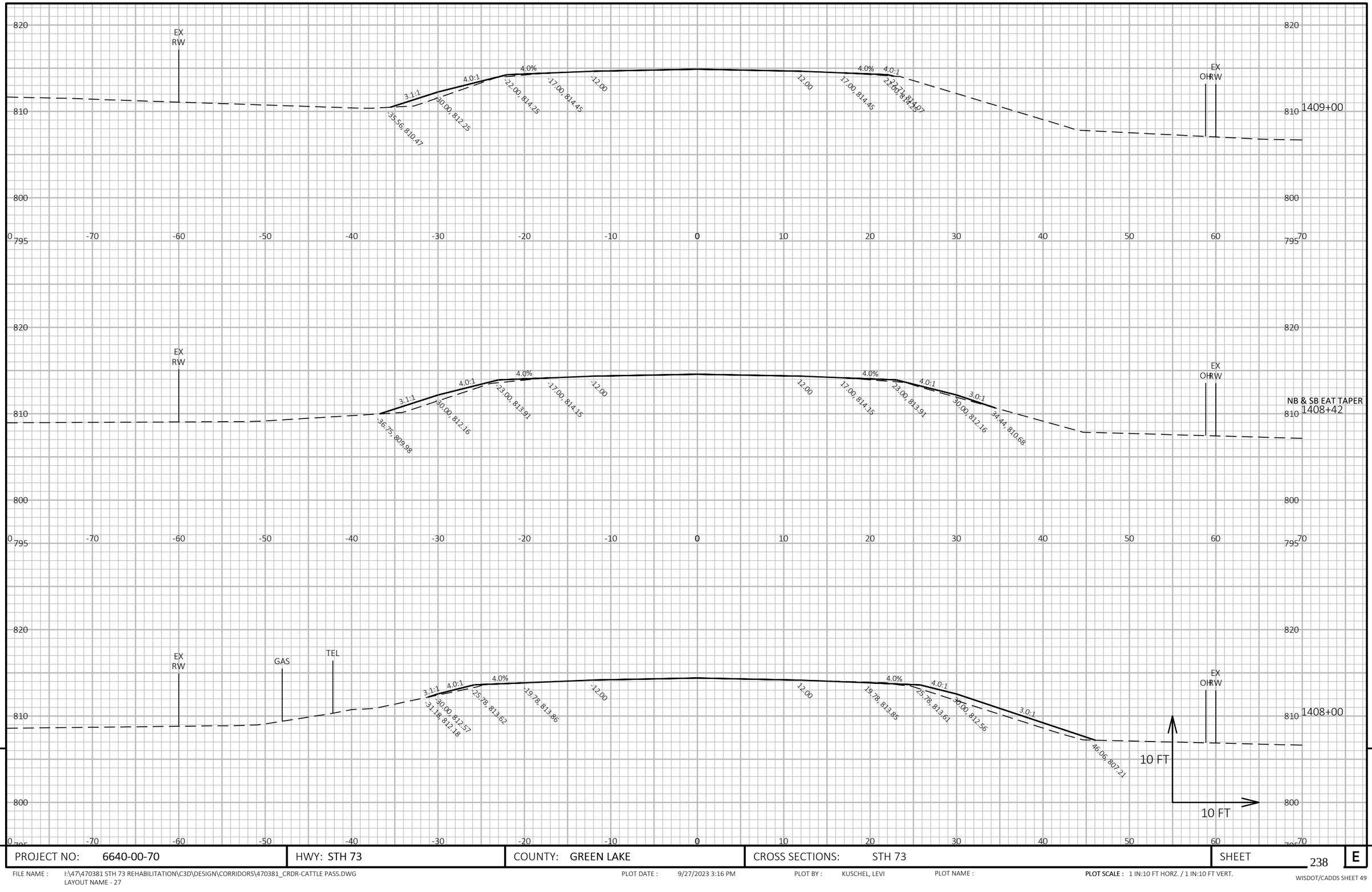
PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 237	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR-CATTLE PASS.DWG
LAYOUT NAME - 26

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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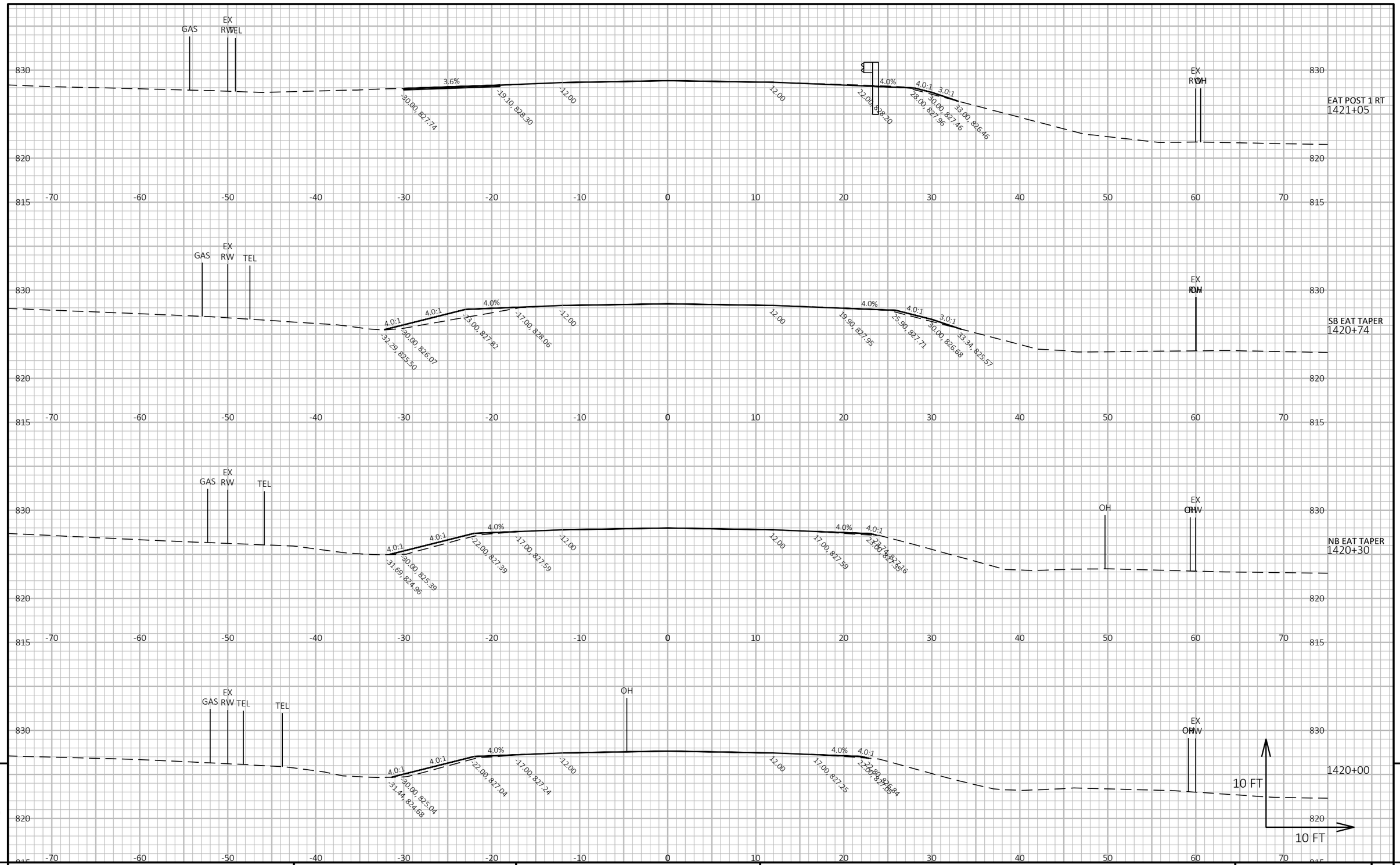
PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 238	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR-CATTLE PASS.DWG
LAYOUT NAME - 27

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 239	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR-CATTLE PASS.DWG
LAYOUT NAME - 28

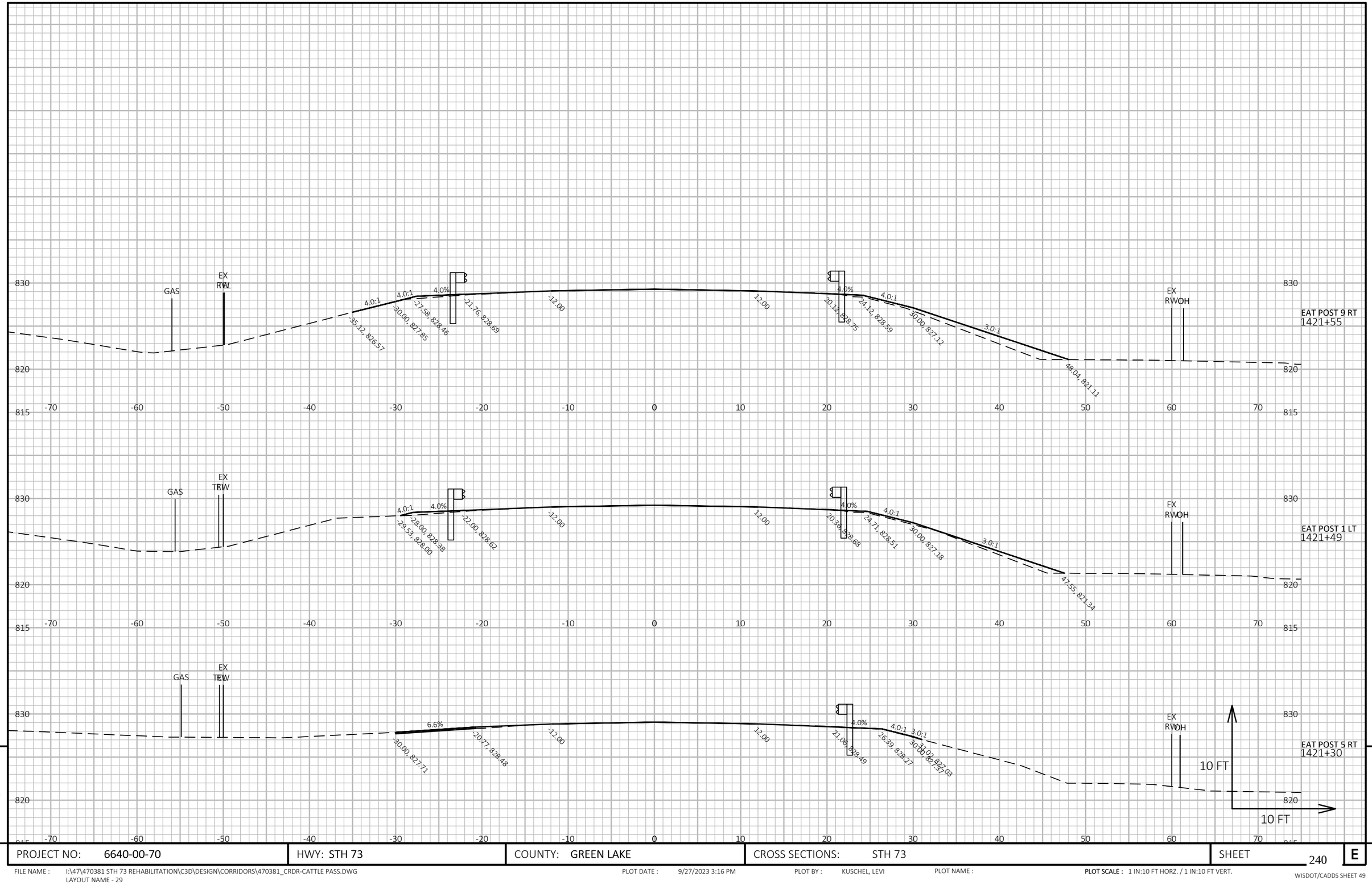
PLOT DATE : 9/27/2023 3:16 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 240	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR-CATTLE PASS.DWG
LAYOUT NAME - 29

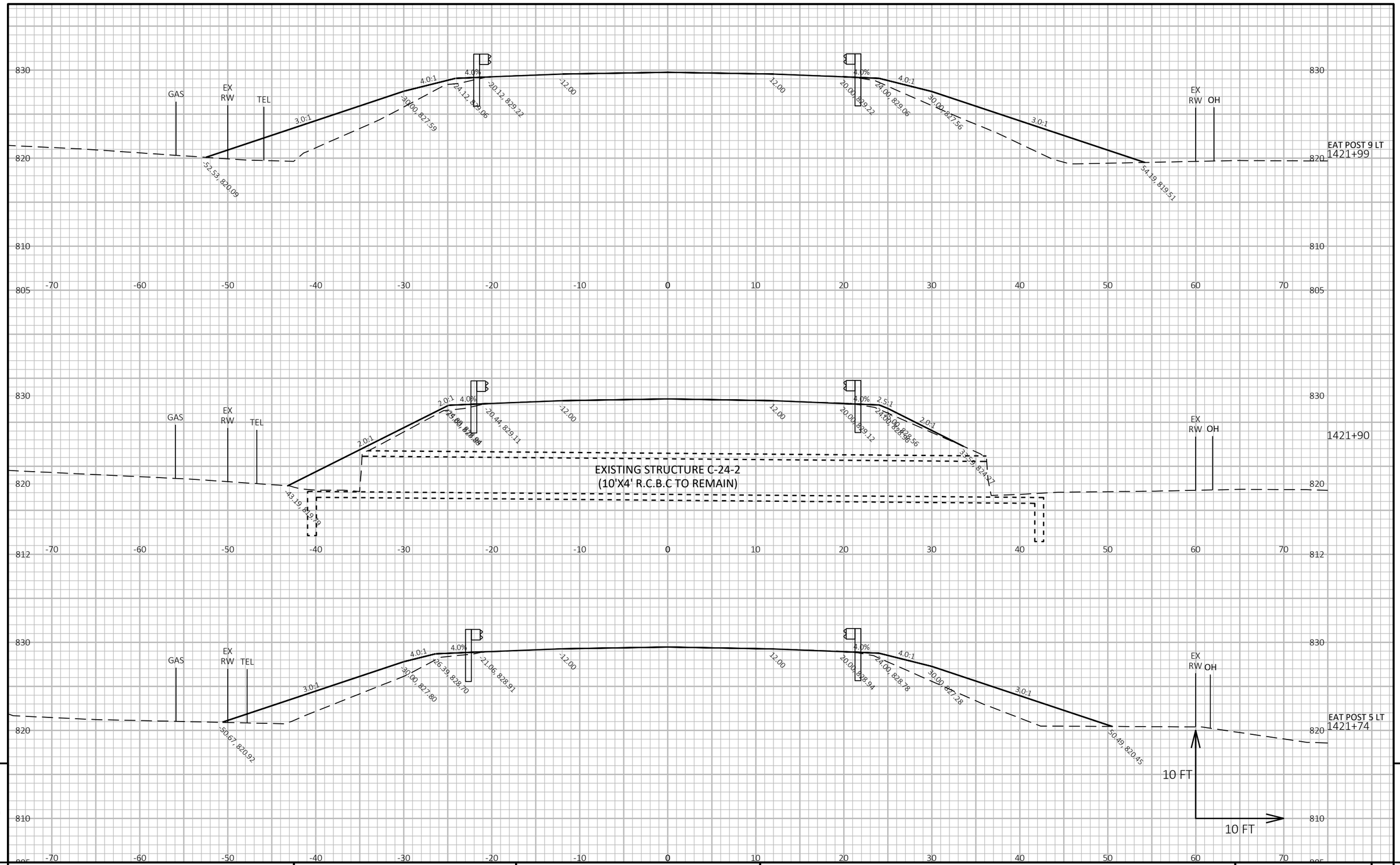
PLOT DATE : 9/27/2023 3:16 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 241	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR-CATTLE PASS.DWG
LAYOUT NAME - 30

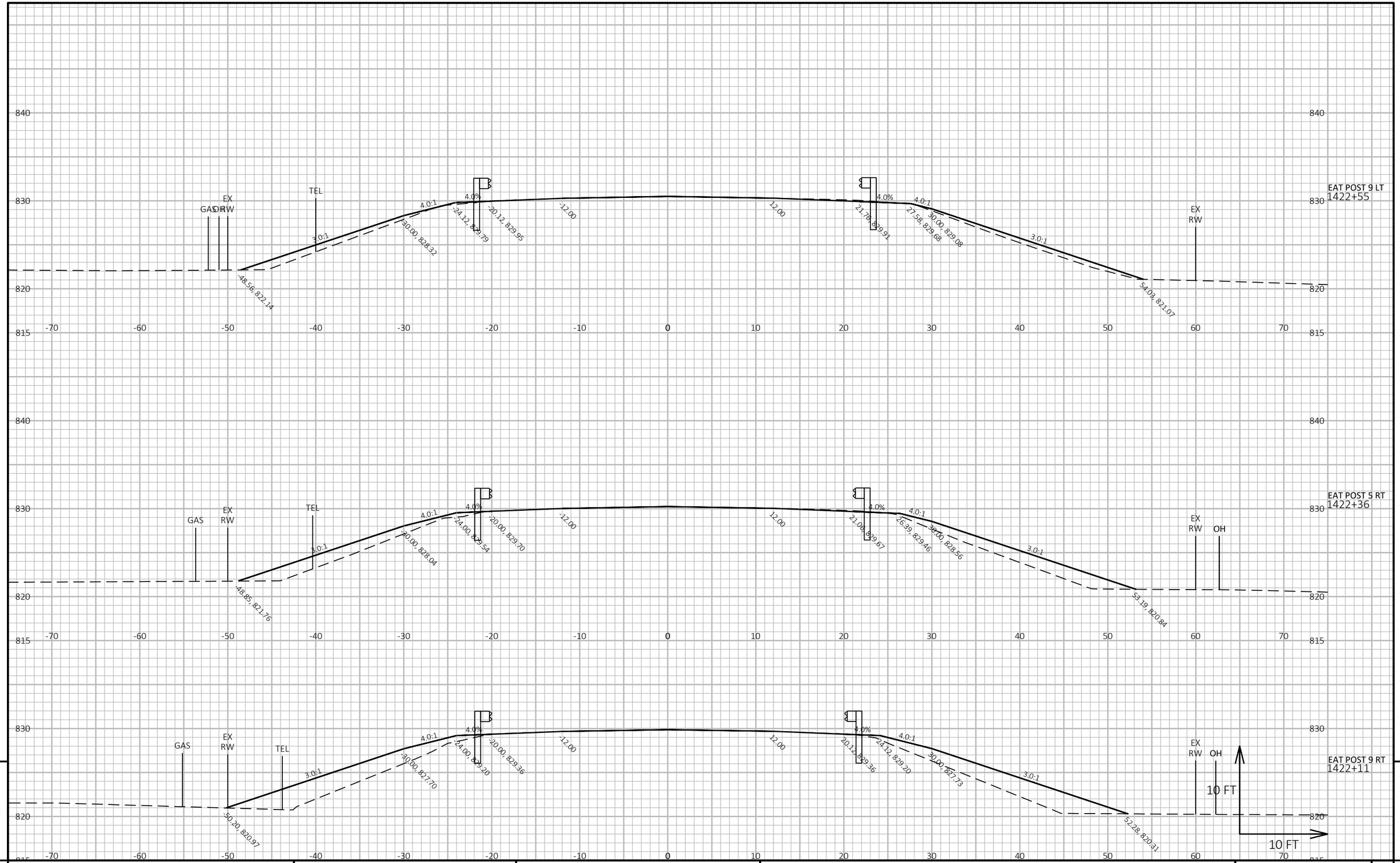
PLOT DATE : 9/27/2023 3:16 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 242	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR-CATTLE PASS.DWG
LAYOUT NAME - 31

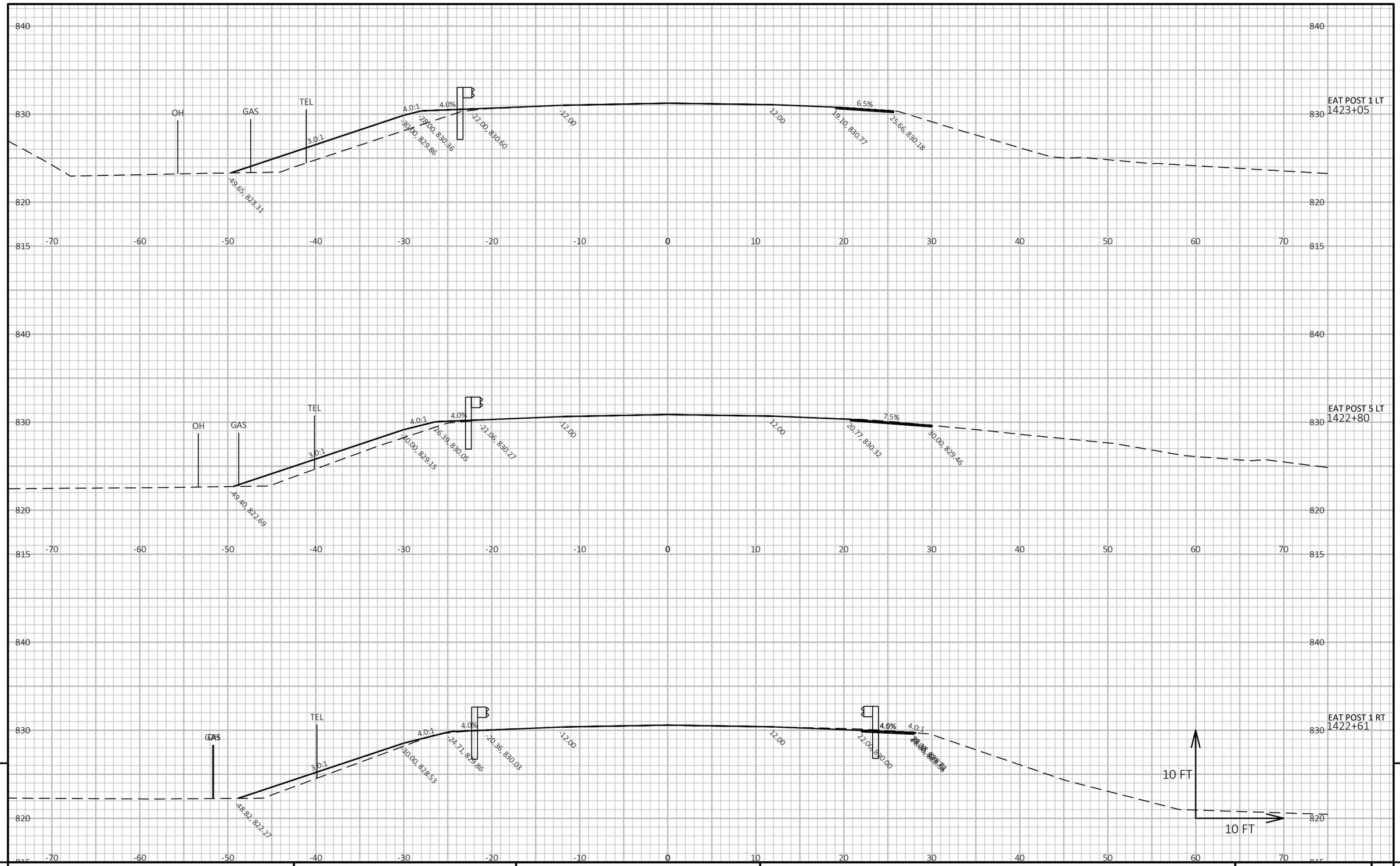
PLOT DATE : 9/27/2023 3:16 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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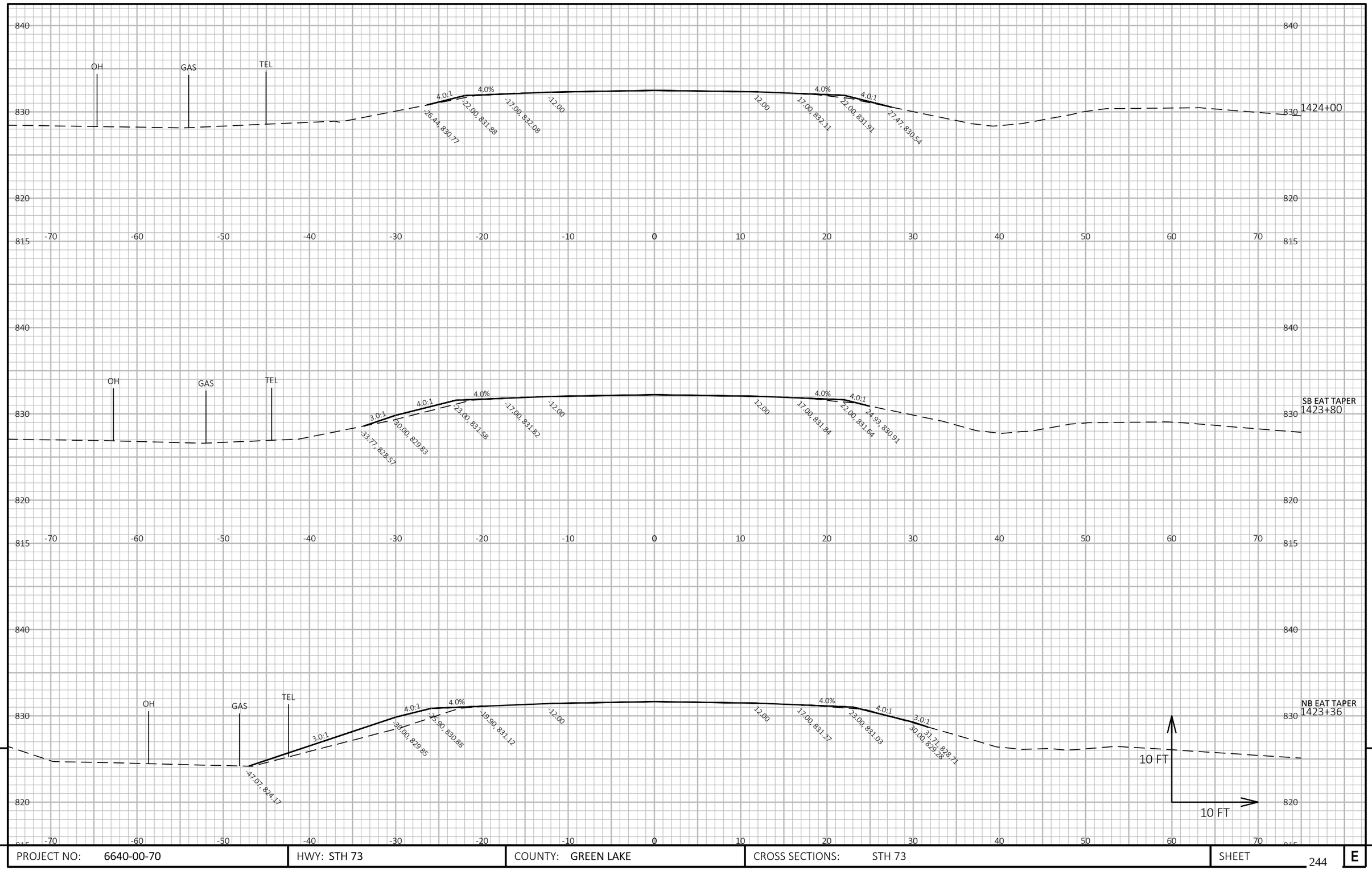
PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 243	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR-CATTLE PASS.DWG
LAYOUT NAME - 32

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

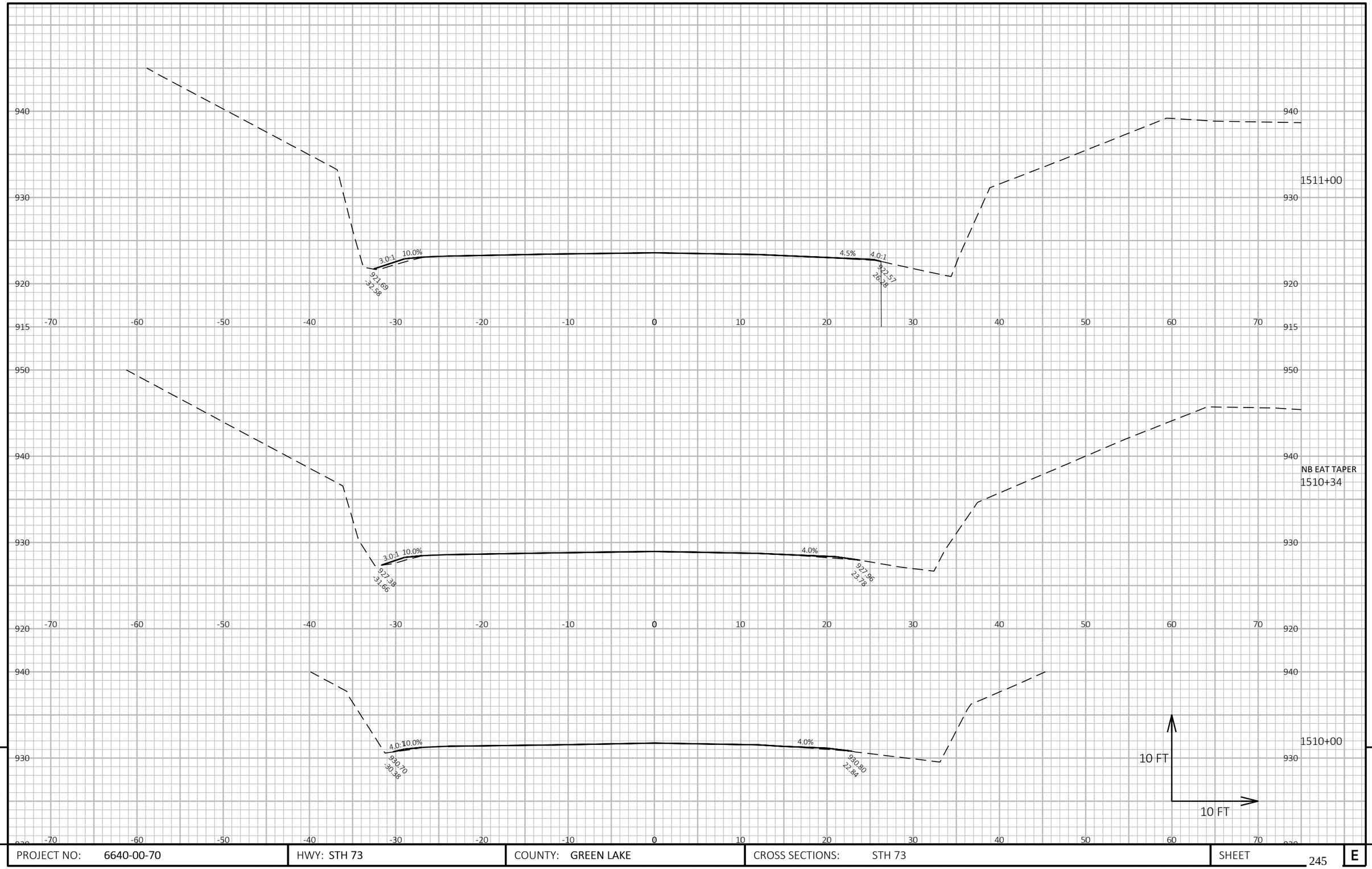
9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 244	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR-CATTLE PASS.DWG
LAYOUT NAME - 33

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

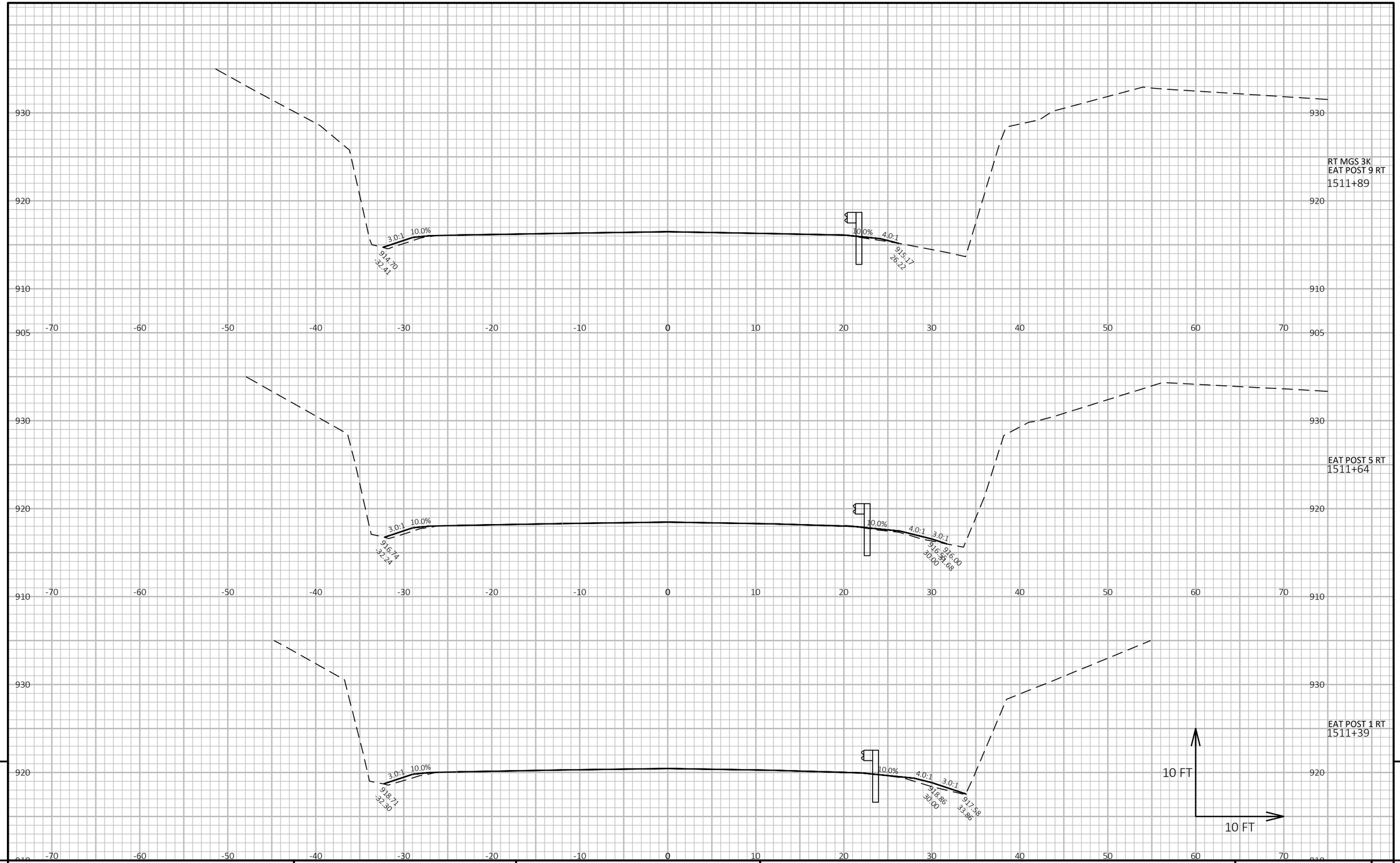


PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 245	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 36

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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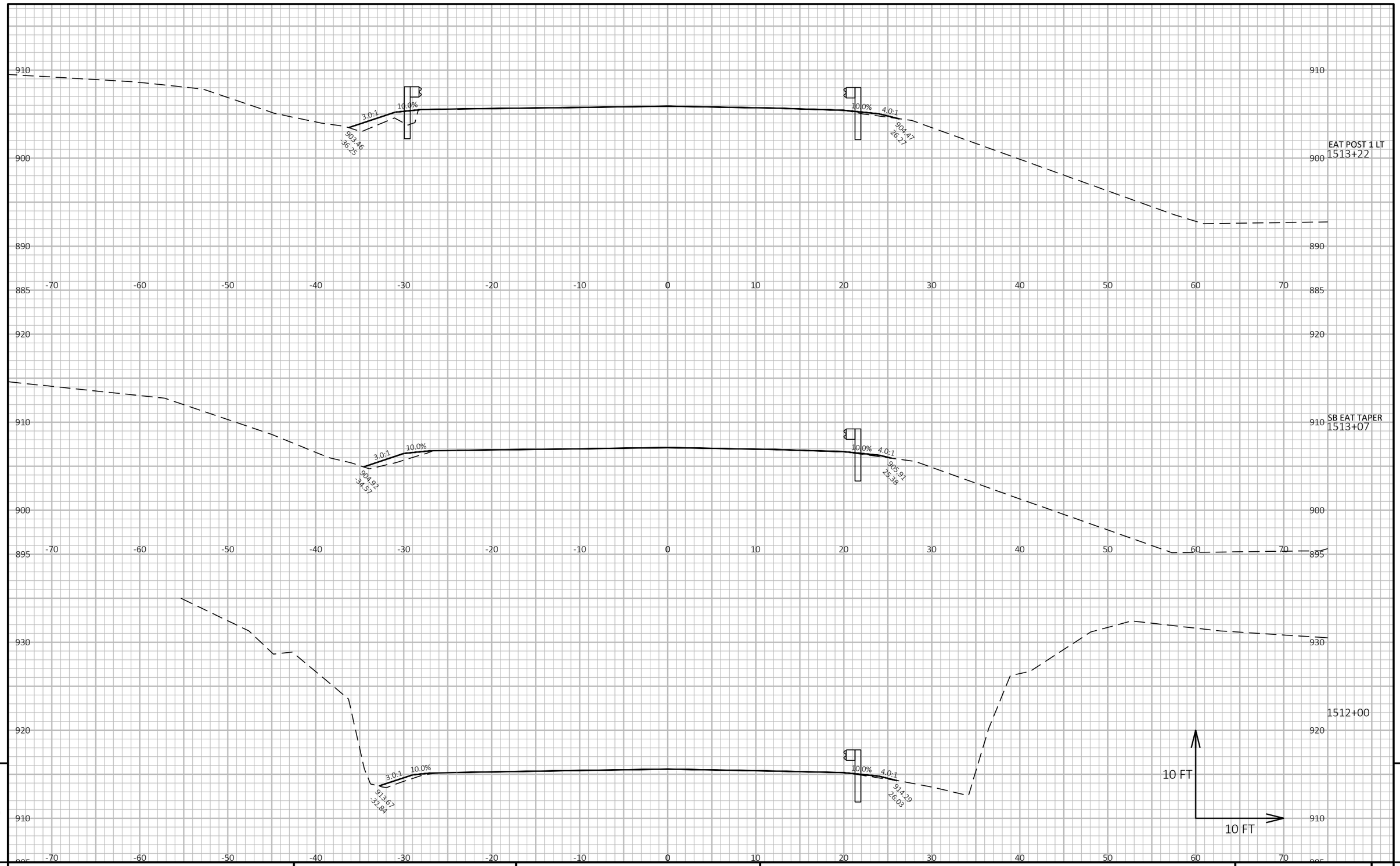
PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 246	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 37

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

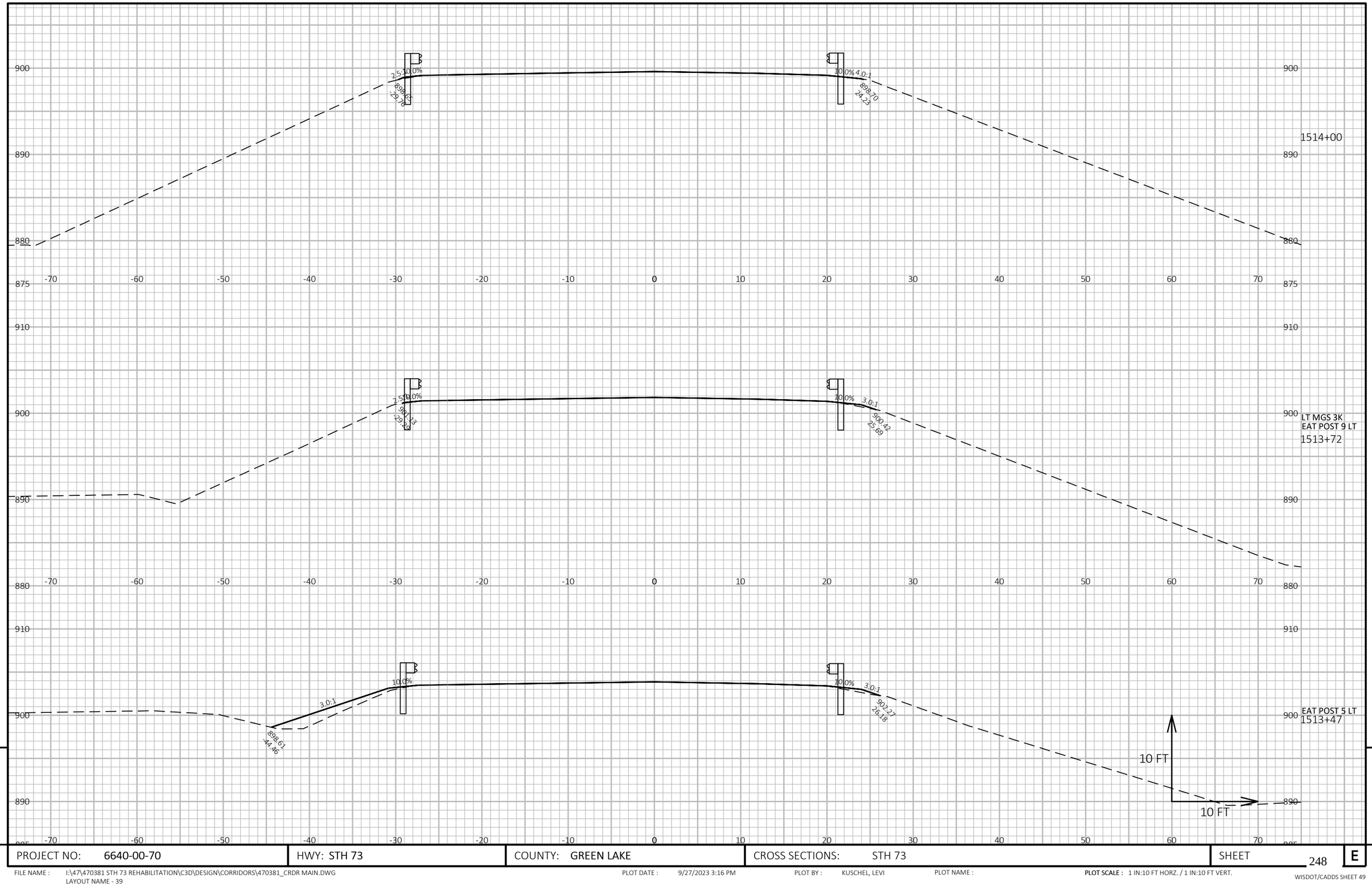
9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 247	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 38

PLOT DATE : 9/27/2023 3:16 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 248	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 39

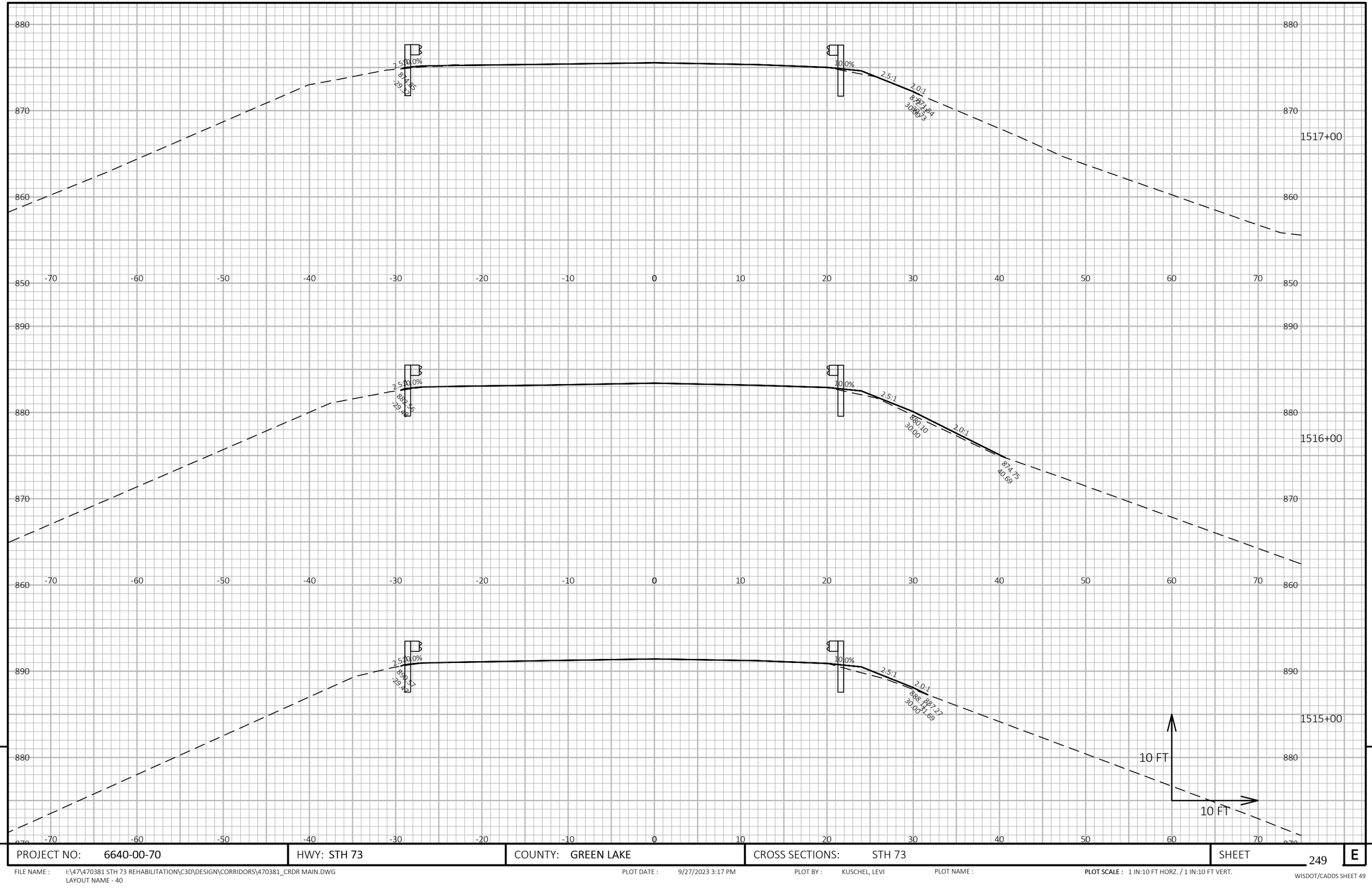
PLOT DATE : 9/27/2023 3:16 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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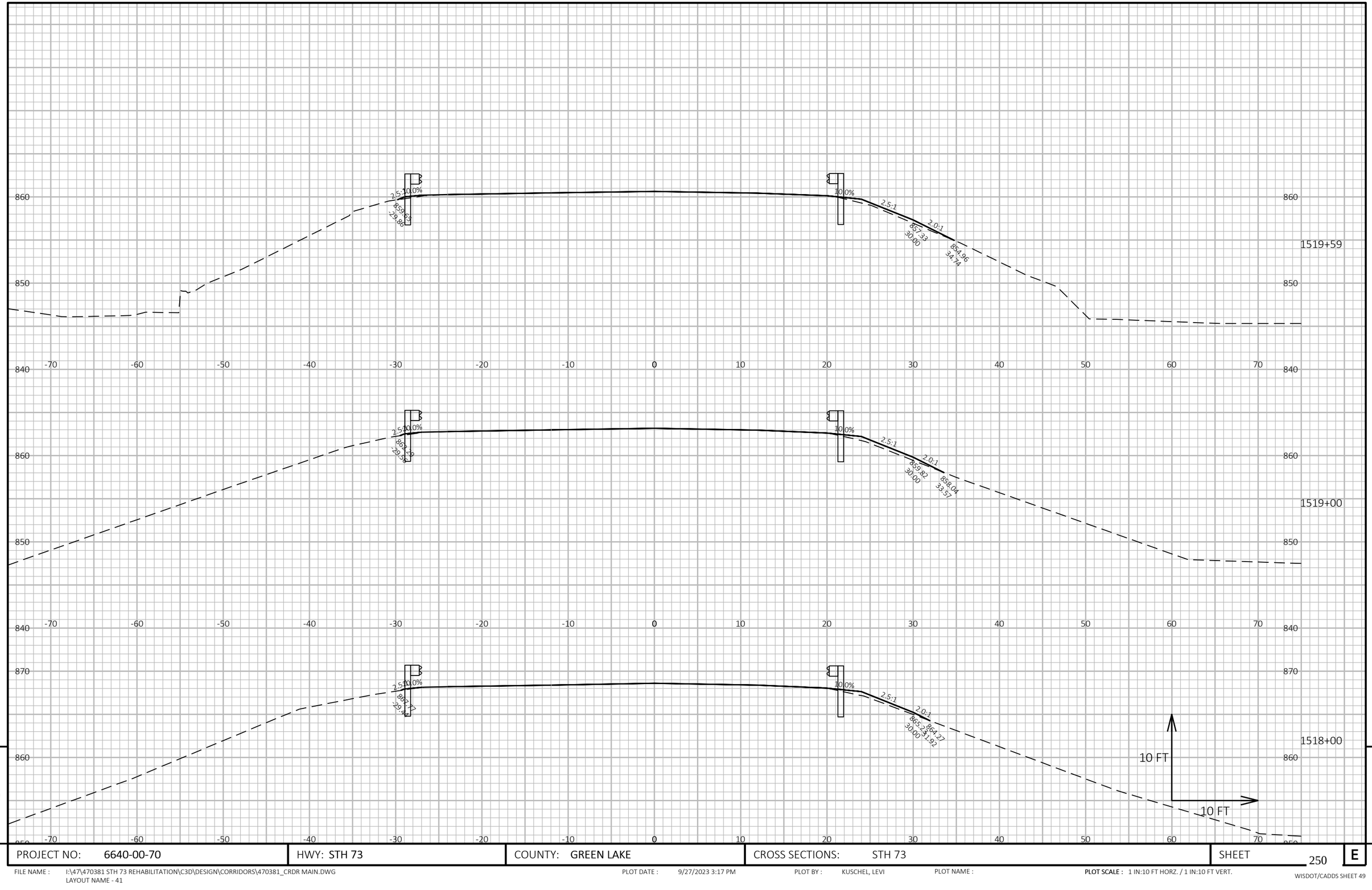
PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 249	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 40

PLOT DATE : 9/27/2023 3:17 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 250	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 41

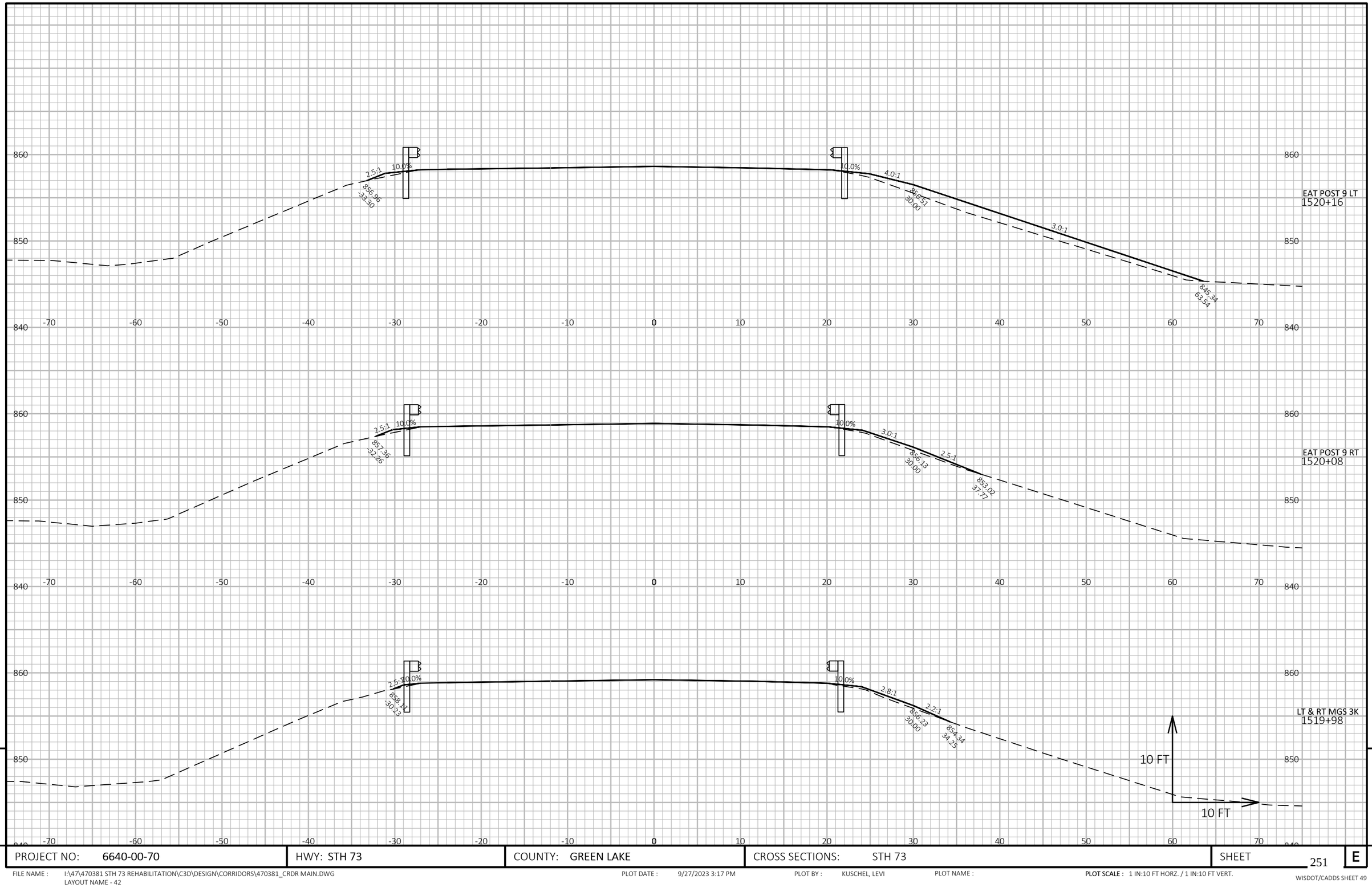
PLOT DATE : 9/27/2023 3:17 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

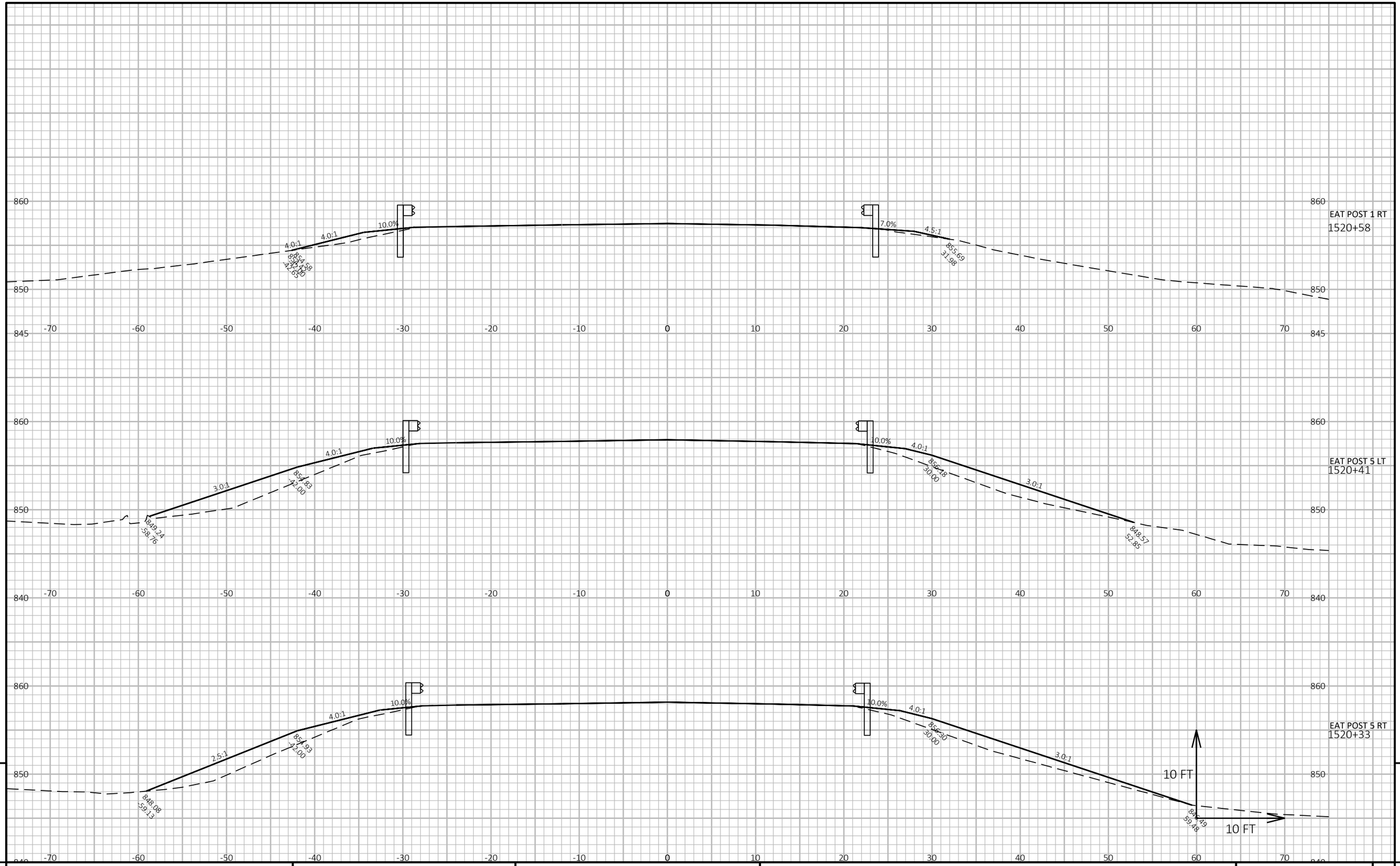


9 9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 251	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 42

PLOT DATE : 9/27/2023 3:17 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 252	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 43

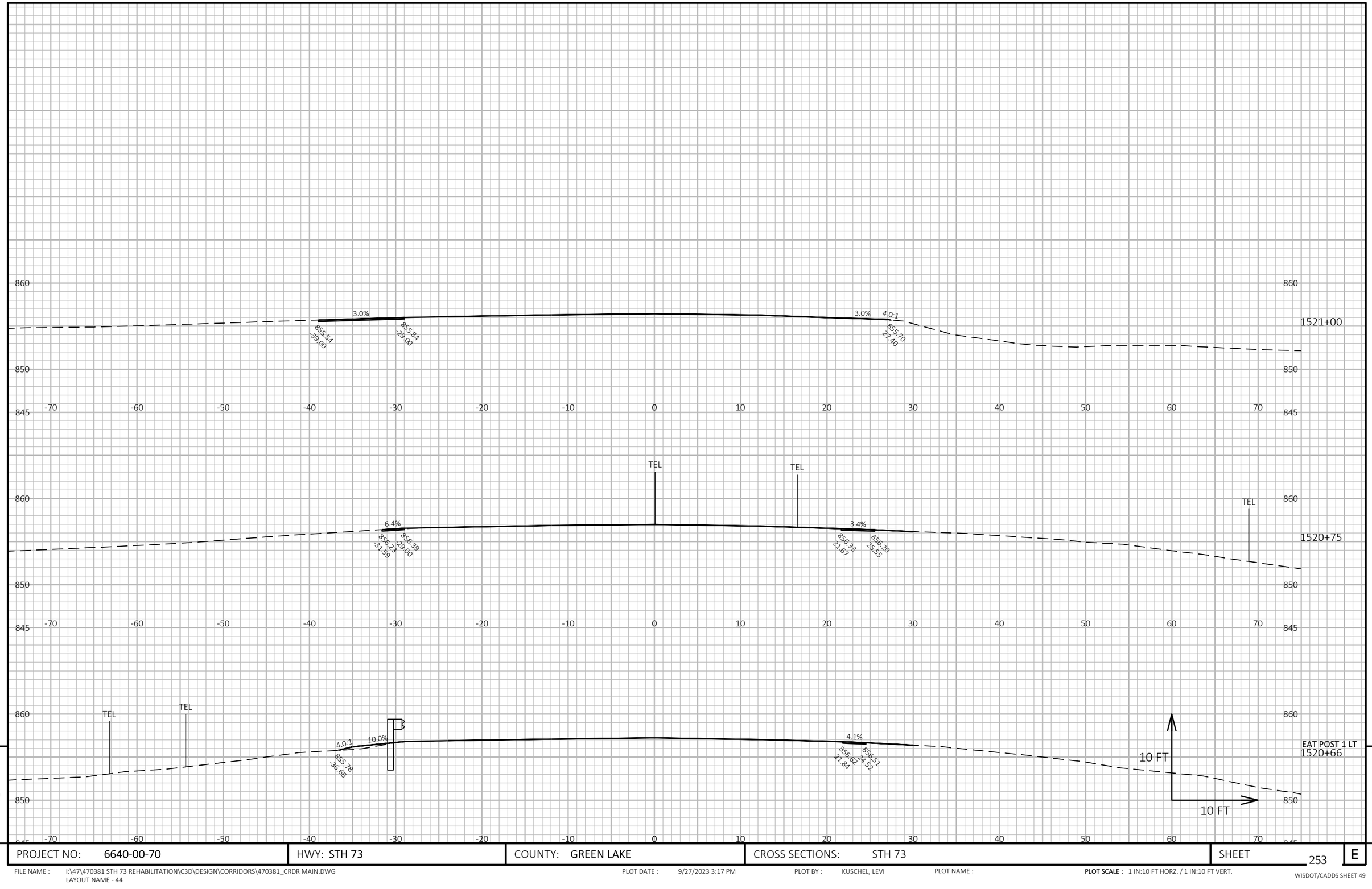
PLOT DATE : 9/27/2023 3:17 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 253	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 44

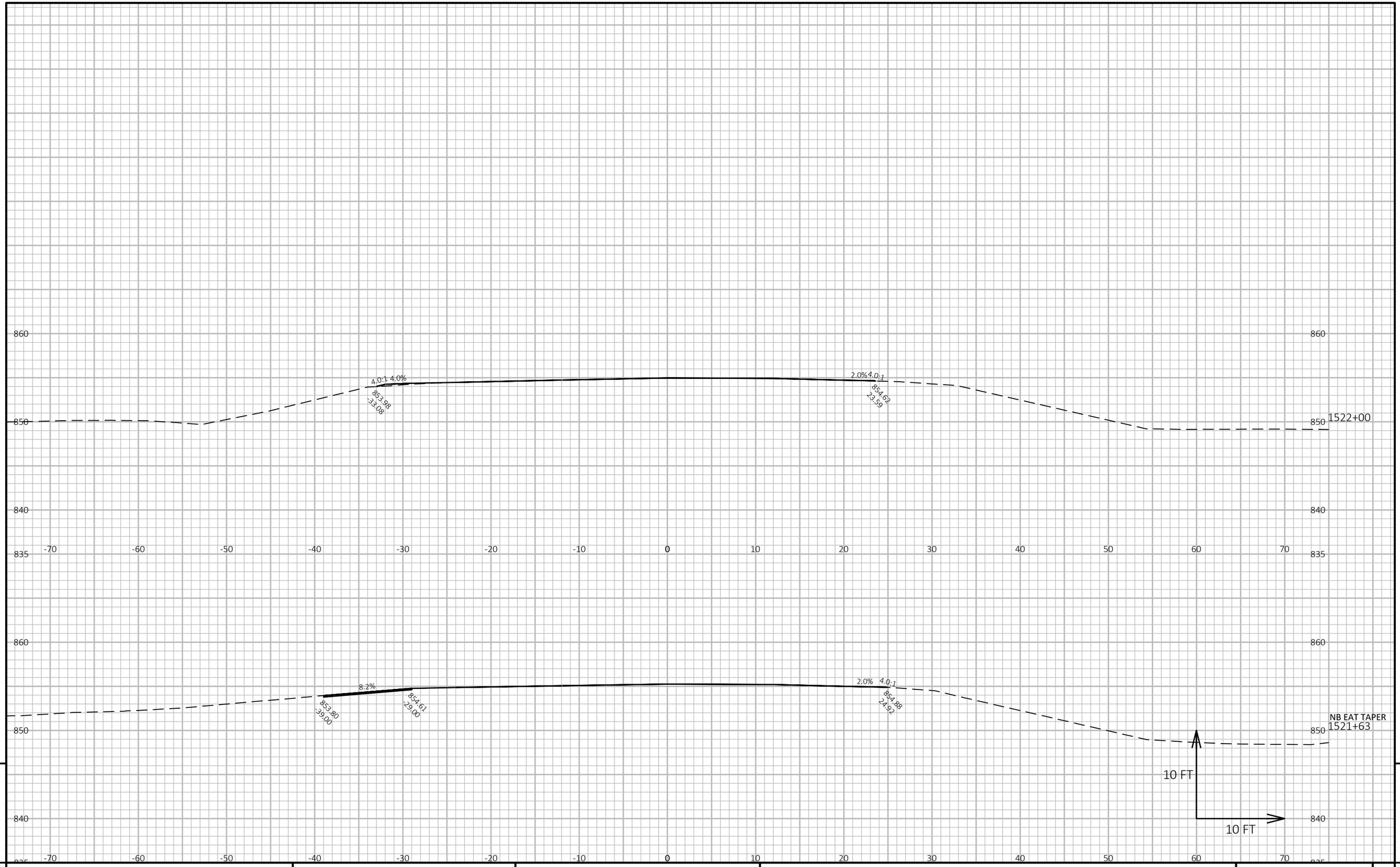
PLOT DATE : 9/27/2023 3:17 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

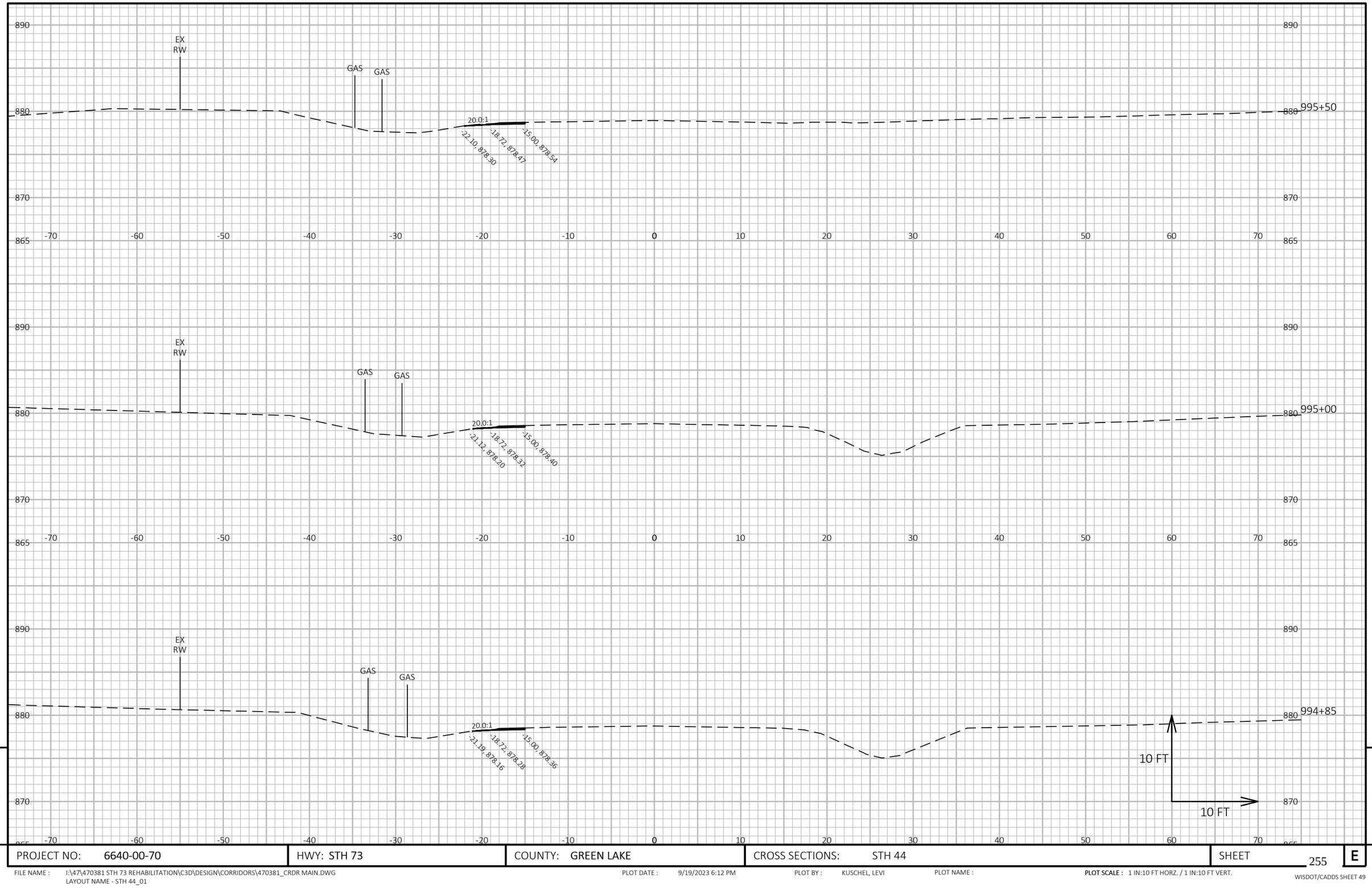


9 9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 73	SHEET 254	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - 45

PLOT DATE : 9/27/2023 3:17 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

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PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 44	SHEET 255	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - STH 44_01

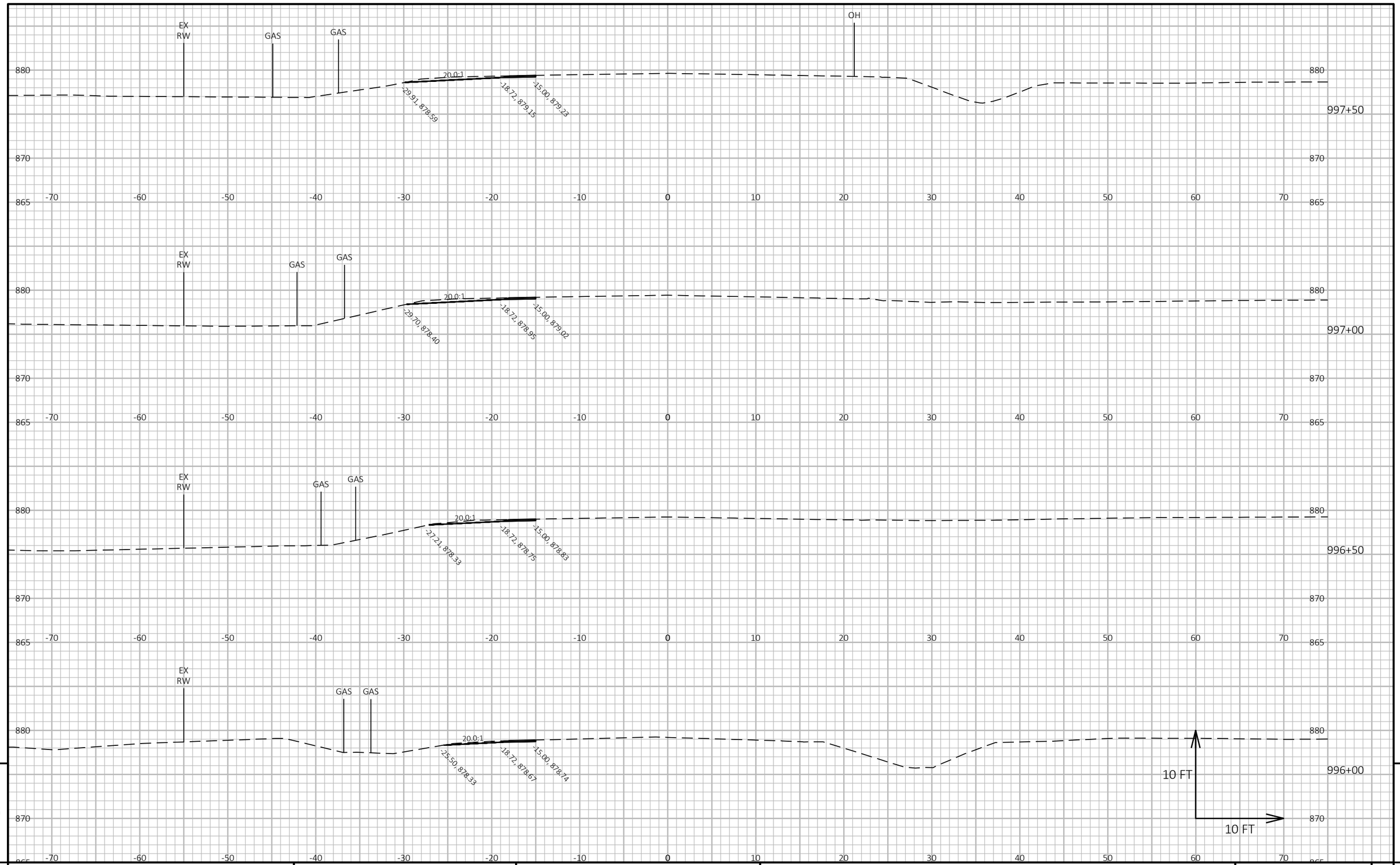
PLOT DATE : 9/19/2023 6:12 PM

PLOT BY : KUSCHEL, LEVI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

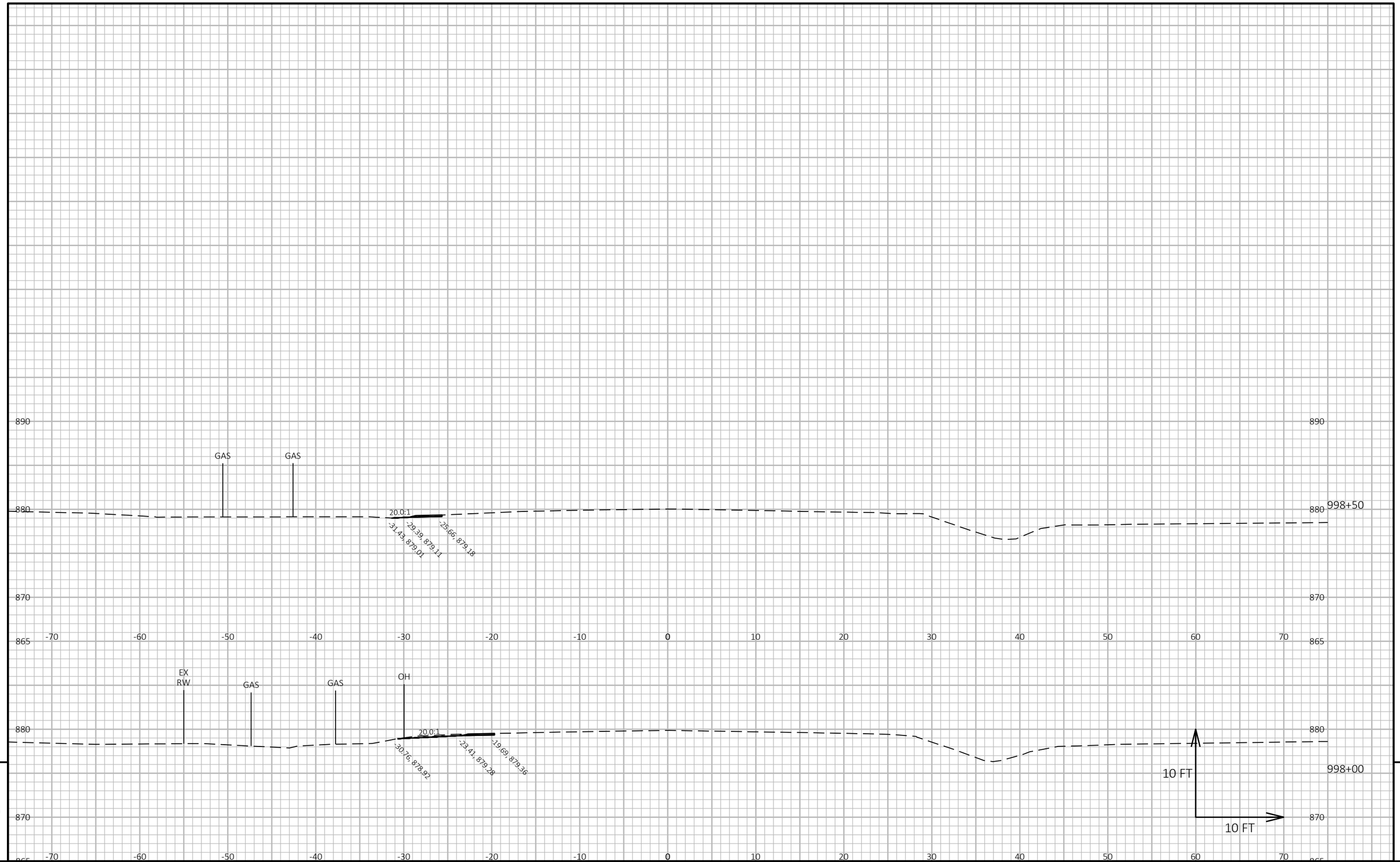
9

PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 44	SHEET 256	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - STH 44_02

PLOT DATE : 9/19/2023 6:12 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 6640-00-70	HWY: STH 73	COUNTY: GREEN LAKE	CROSS SECTIONS: STH 44	SHEET 257	E

FILE NAME : I:\47\470381 STH 73 REHABILITATION\C3D\DESIGN\CORRIDORS\470381_CRDR MAIN.DWG
LAYOUT NAME - STH 44_03

PLOT DATE : 9/19/2023 6:12 PM PLOT BY : KUSCHEL, LEVI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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