EAU

Feb 14, 2023

PROJECT ID: 8060-00-70

WITH: 8060-00-72

COUNTY: ST. CROIX

ORDER OF SHEETS

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

TOTAL SHEETS = 510

PROJECT LOCATION
ST. CROIX COUNTY



49

N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8060-00-70	WISC 2023249	1
8060-00-72		

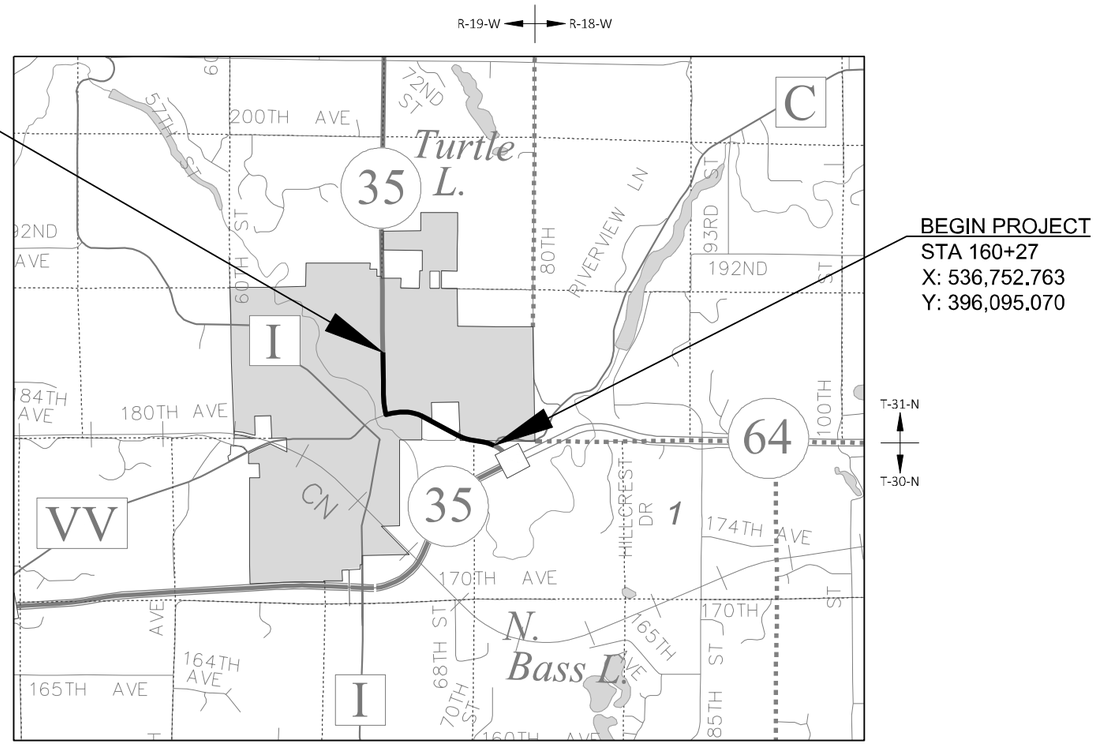
SOMERSET - ST. CROIX FALLS
CTH C TO LASER DRIVE
STH 35
ST. CROIX COUNTY

STATE PROJECT NUMBER
8060-00-70

SOMERSET - ST. CROIX FALLS
CTH C TO LASER DRIVE
STH 35
ST. CROIX COUNTY

STATE PROJECT NUMBER
8060-00-72

END PROJECT
STA 222+31



BEGIN PROJECT
STA 160+27
X: 536,752.763
Y: 396,095.070

DESIGN DESIGNATION

A.A.D.T.	2023	=	7,760
A.A.D.T.	2043	=	10,480
D.H.V.		=	660
D.D.		=	60/40
T.		=	11.2%
DESIGN SPEED		=	25 - 45 MPH
ESALS		=	1,800,000

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

LAYOUT
SCALE 0 1.0 MI

TOTAL NET LENGTH OF CENTERLINE = 1.166 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), ST. CROIX COUNTY, NAD83 (1991), 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 (1991). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY

MSA

146 NORTH CENTRAL AVE, MARSHFIELD, WI 54449
(715) 384-2133 (1-877) 204-0572 FAX: (715) 384-9787

WISCONSIN SEAN M. SPROMBERG E-37771-008 SCHOFIELD, WI PROFESSIONAL ENGINEER

10/21/2022
DATE: (PROFESSIONAL ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WisDOT
Designer	MSA PROFESSIONAL SERVICES, INC.
Project Manager	BRETT HOLLISTER, PE
Regional Examiner	TOU YANG, PE
Regional Supervisor	JAMES KOENIG, PE

APPROVED FOR THE DEPARTMENT

DATE: 10/25/2022 James Koenig (Signature)

E

GENERAL NOTES

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

THE LOCATION OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

EROSION CONTROL FEATURES SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE EROSION CONTROL IMPLEMENTATION PLAN. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

RADIUS DIMENSIONS FOR CURB AND GUTTER ARE TO THE FLANGE LINE UNLESS OTHERWISE NOTED.

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

ABBREVIATIONS

AADT	ANNUAL AVERAGE DAILY TRAFFIC
AH	AHEAD
ASPH	ASPHALTIC
BAD	BASE AGGREGATE DENSE
BK	BACK
BM	BENCHMARK
C/L	CENTERLINE
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
CPCM	CULVERT PIPE CORRUGATED METAL
CPCP	CULVERT PIPE CORRUGATED POLYETHYLENE
CPRP	CULVERT PIPE REINFORCED CONCRETE
CY, CU YD	CUBIC YARD
D	DIRECTIONAL DISTRIBUTION
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
EA	EACH
ELECT.	ELECTRIC
ELEV, EL	ELEVATION
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC	EXCAVATION
FE	FIELD ENTRANCE
FO	FIBER OPTIC
CWT	HUNDREDWEIGHT
INL	INLET
INV	INVERT
K	RATE OF VERTICAL CURVATURE
L	LENGTH OF CURVE
LB	POUND
LF	LINEAR FOOT
LS	LUMP SUM
LT	LEFT
MAX	MAXIMUM
MI	MILE
MIN	MINIMUM
MISC	MISCELLANEOUS
PC	POINT OF CURVATURE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
R/L	REFERENCE LINE
REQ'D	REQUIRED
RT	RIGHT
R/W	RIGHT OF WAY
SDD	STANDARD DETAIL DRAWING
SE	SUPERELEVATION
SF	SQUARE FOOT
STA	STATION
STH	STATE TRUNK HIGHWAY
SY	SQUARE YARD
T	TRUCKS (PERCENT OF)
TEL	TELEPHONE
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
UG	UNDERGROUND
V	VELOCITY OR DESIGN SPEED
VAR	VARIES
VC	VERTICAL CURVE
YD	YARD

UTILITIES

ELECTRICITY

XCEL ENERGY
BILL JOHNSON
2001 OLD HWY 35 S
HUDSON, WI 54016
(715) 377-1825 (OFFICE)
(651) 248-8975 (CELL)
william.d.johnson@xcelenergy.com

COMMUNICATIONS

NORTHWEST COMMUNICATIONS
GREG CARDINAL
116 HARRIMAN AVE N
AMERY, WI 54001
(715) 268-3379 (OFFICE)
(715) 554-1620 (CELL)
gregcardinal@amerytel.net

GAS/PETROLEUM

MIDWEST NATUAL GAS, INC
RICHARD HYDE
611 SHAY ST
SOMERSET, WI 54025
(715) 247-5279 (OFFICE)
(715) 797-0590 (CELL)
richh@midwestnaturalgas.com

WATER & SEWER

VILLAGE OF SOMERSET
ROBERT GUNTHER
110 SPRING STREET
PO BOX 356
SOMERSET, WI 54025
(715) 247-3395 (OFFICE)
(715) 760-0884 (CELL)
rgunther@vil.somerset.wi.us

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

DNR LIAISON

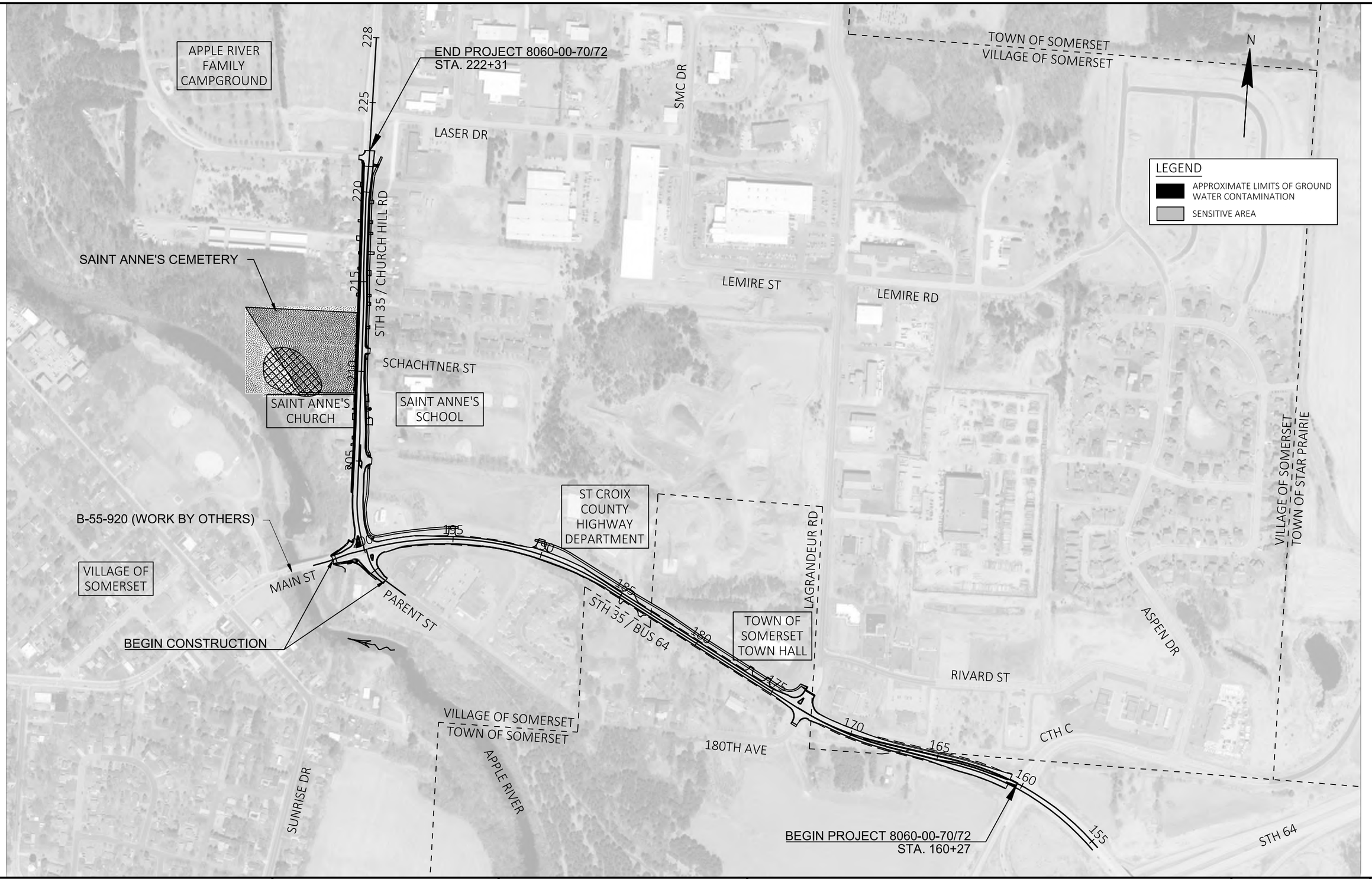
DEPARTMENT OF NATURAL RESOURCES
AMY LESIK
1300 WEST CLAIREMONT AVE
EAU CLAIRE, WI 54701
(715) 836-6571 OFFICE
(715) 495-1903 MOBILE
AmyL.Lesik@Wisconsin.gov

ORDER OF DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
CURB RAMP DETAILS
JOINT DETAILS
PAVING DETAILS
EROSION CONTROL
FIBER OPTIC
STORM SEWER REMOVALS
STORM SEWER
SANITARY SEWER & WATERMAIN REMOVALS
SANITARY SEWER & WATERMAIN
EXISTING SIGNING
PERMANENT SIGNING
LIGHTING
TRAFFIC SIGNALS
PAVEMENT MARKING
TEMPORARY PEDESTRIAN ACCOMODATIONS
TRAFFIC CONTROL
ALIGNMENT DIAGRAM

2

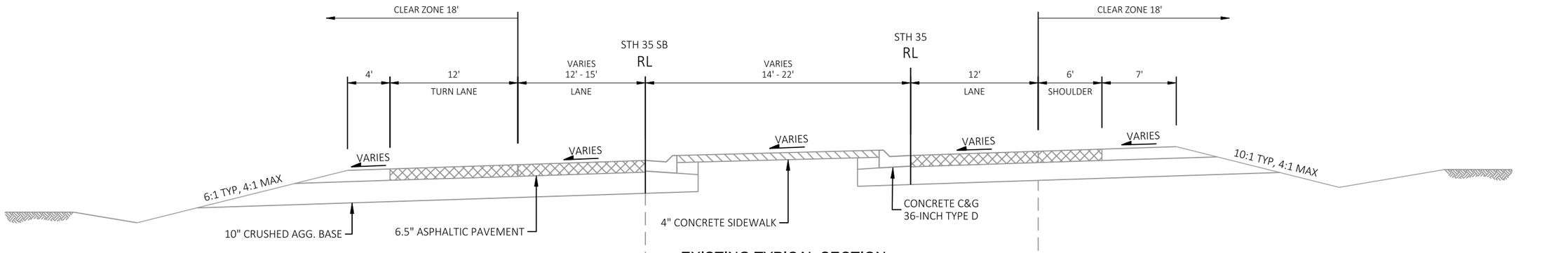
2



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PROJECT OVERVIEW	SHEET 3	E

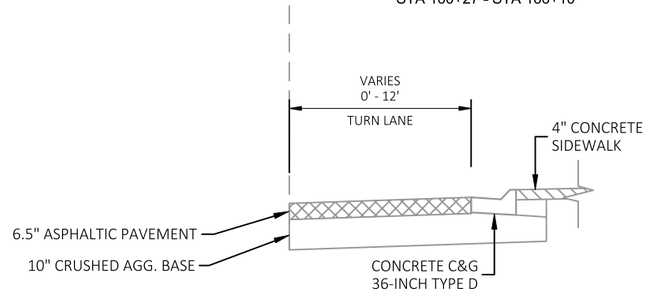
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - 020201_po
PLOT DATE : 10/25/2022 6:52 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

2



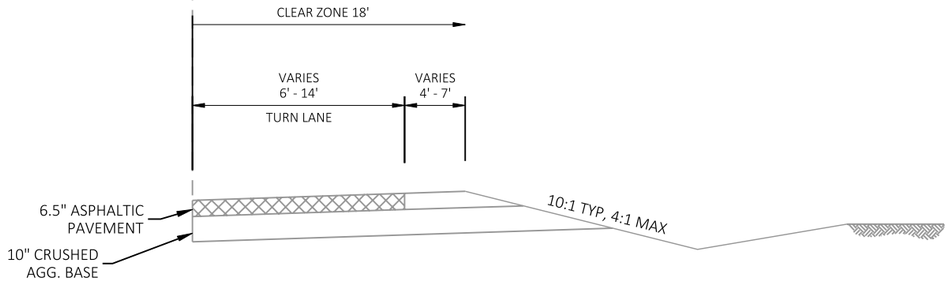
EXISTING TYPICAL SECTION

SUPERELEVATED
STA 160+27 - STA 166+10



PARTIAL EXISTING SECTION

STA 160+27 - STA 164+70

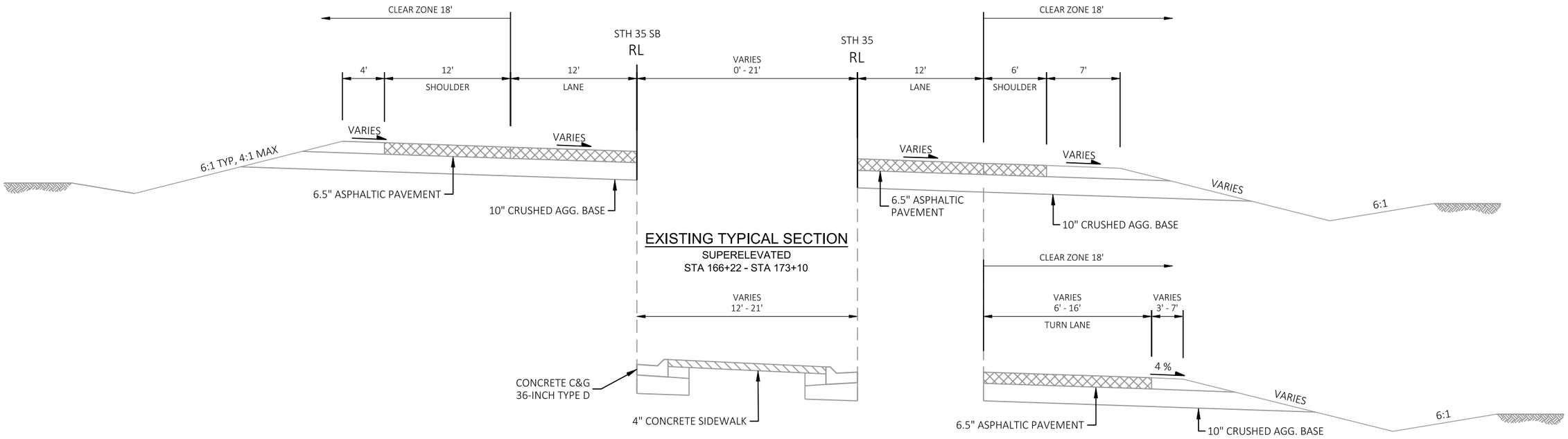


PARTIAL EXISTING SECTION

STA 160+27 - STA 161+78

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 4	E

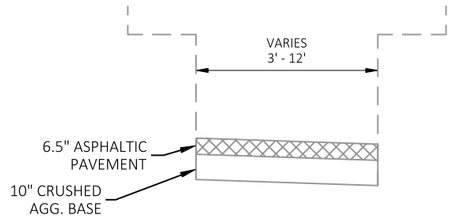
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\020301_TS.DWG
LAYOUT NAME - 020301-Ex-ts
PLOT DATE : 10/10/2022 7:40 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



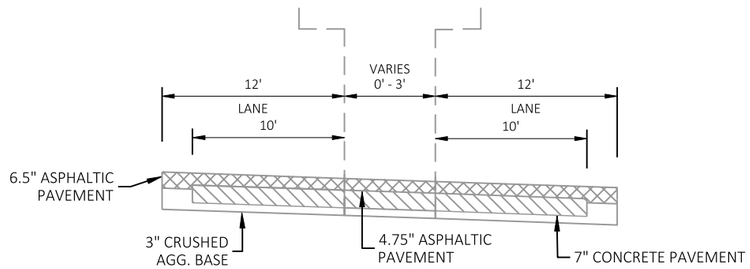
EXISTING TYPICAL SECTION
SUPERELEVATED
STA 166+22 - STA 173+10

PARTIAL EXISTING SECTION
STA 166+22 - STA 173+10

PARTIAL EXISTING SECTION
STA 168+50 - STA 173+10



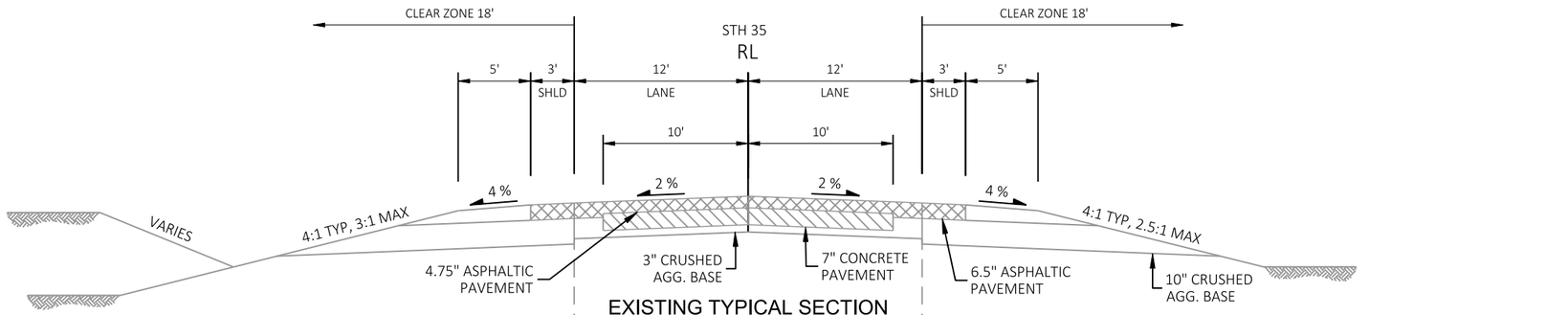
PARTIAL EXISTING SECTION
STA 169+20 - STA 171+48



PARTIAL EXISTING SECTION
STA 171+48 - STA 173+10

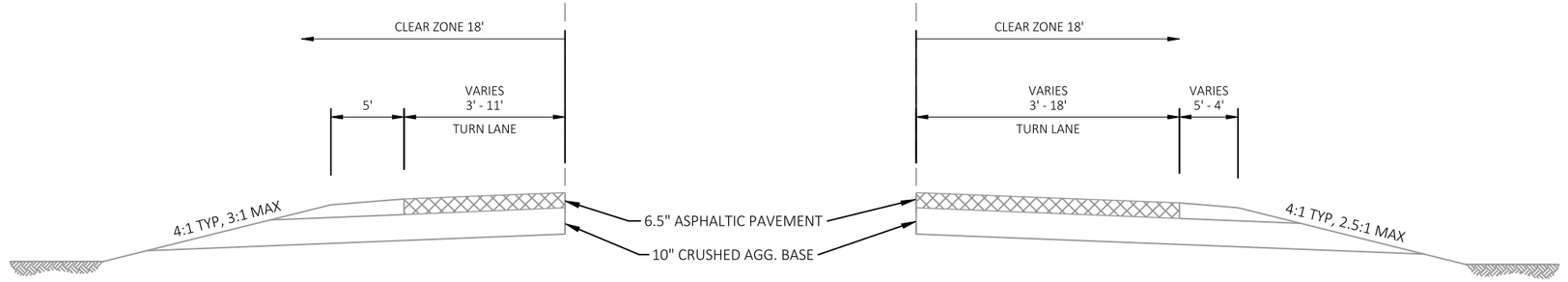
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 5	E

2



EXISTING TYPICAL SECTION

STA 173+10 - STA 183+90



PARTIAL EXISTING SECTION

STA 173+10 - STA 175+16

PARTIAL EXISTING SECTION

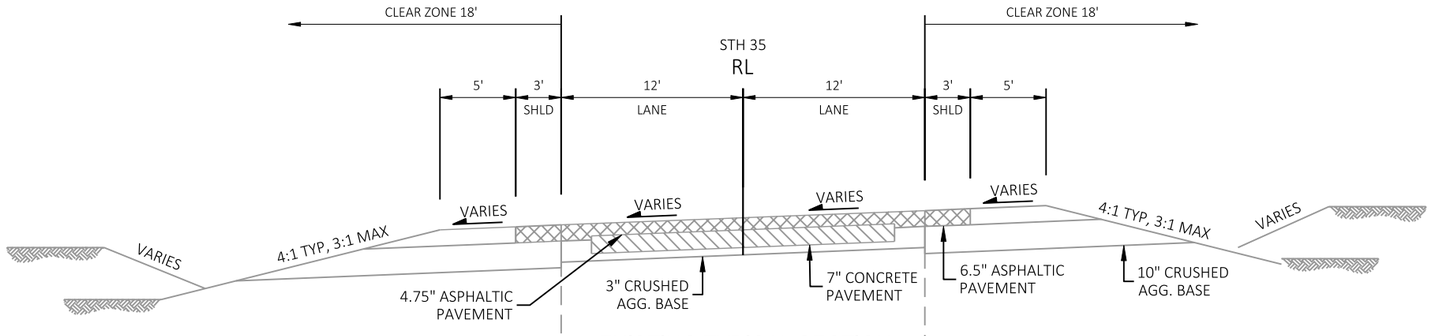
STA 173+10 - STA 174+69

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 6	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\020301_TS.DWG
LAYOUT NAME - 020303-Ex-ts

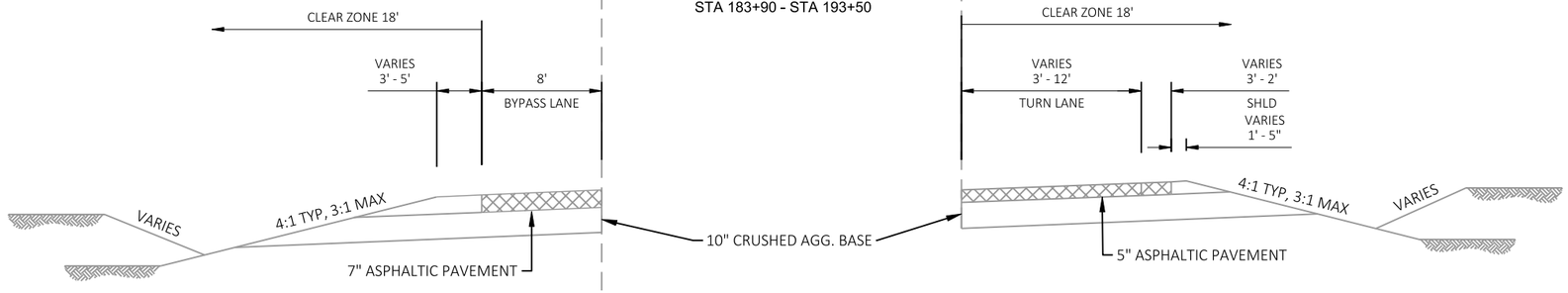
PLOT DATE : 10/10/2022 7:40 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



EXISTING TYPICAL SECTION

SUPERELEVATED
STA 183+90 - STA 193+50

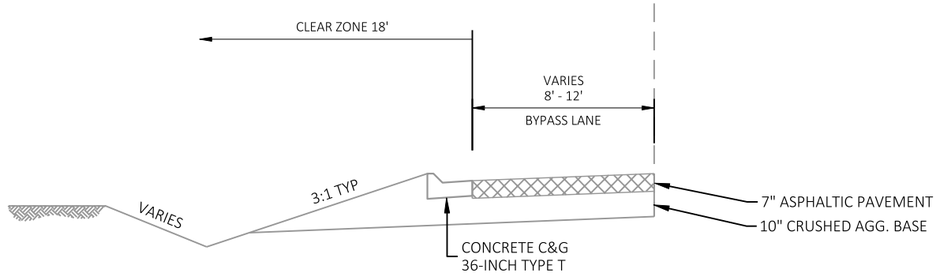


PARTIAL EXISTING SECTION

STA 185+85 - STA 187+65

PARTIAL EXISTING SECTION

STA 186+02 - STA 191+36

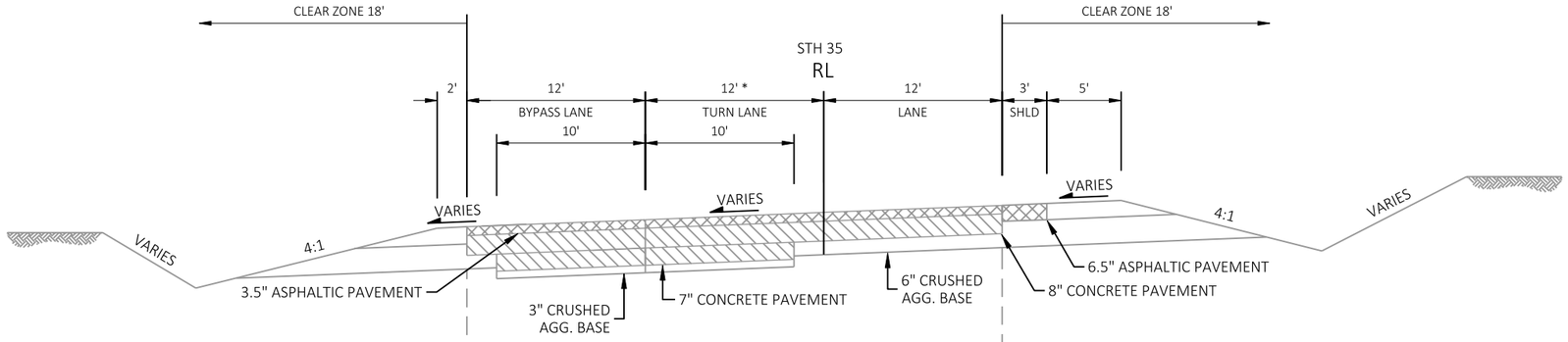


PARTIAL EXISTING SECTION

STA 187+65 - STA 193+50

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 7	E

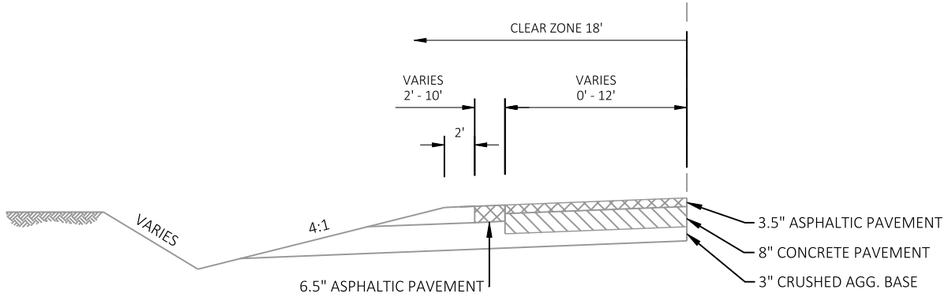
2



* RAISED MEDIAN STA 103+26 TO 105+24.

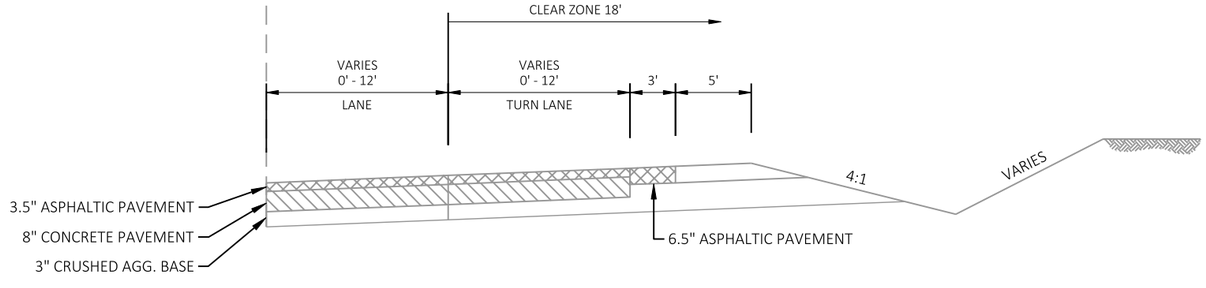
EXISTING TYPICAL SECTION

SUPERELEVATED
STA 193+50 - STA 200+00



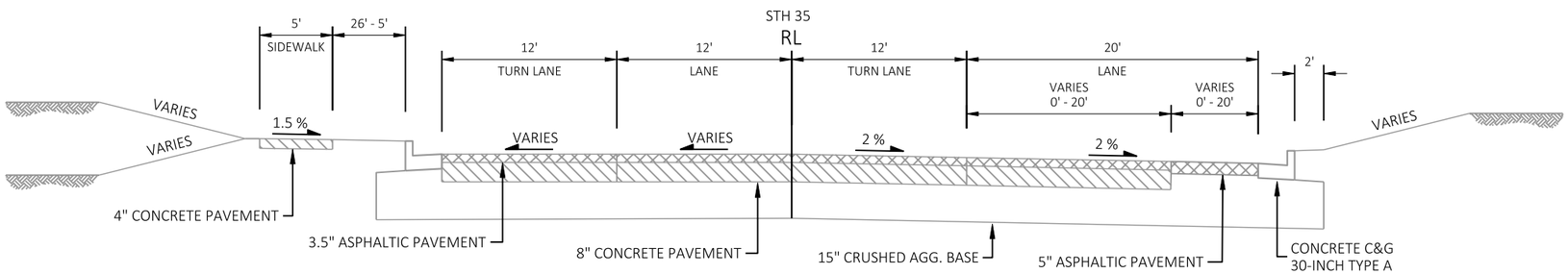
PARTIAL EXISTING SECTION

STA 197+11 - STA 200+00



PARTIAL EXISTING SECTION

STA 194+34 - 200+00

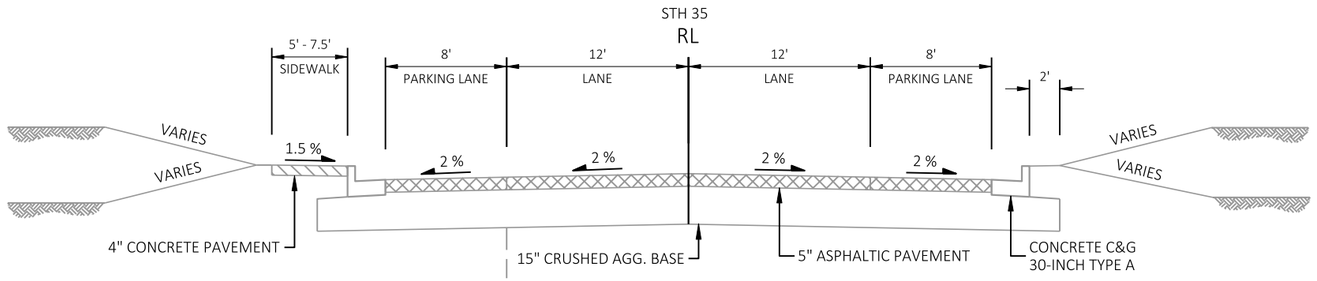


EXISTING TYPICAL SECTION

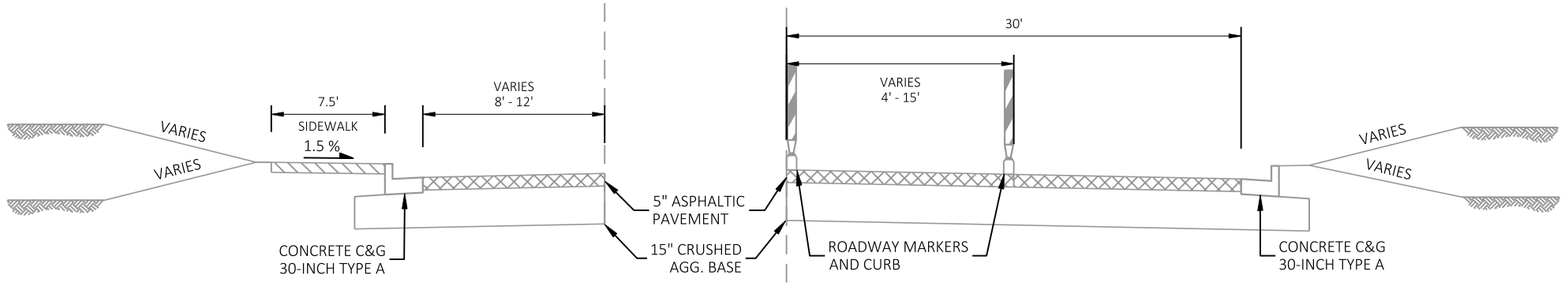
SUPERELEVATED
STA 200+00 - STA 203+78

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 8	E

2

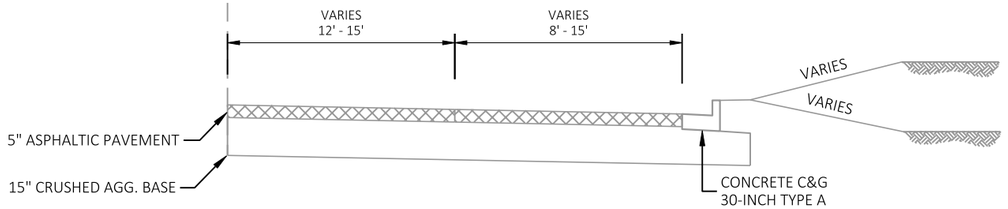


EXISTING TYPICAL SECTION
STA 203+78 - STA 222+31



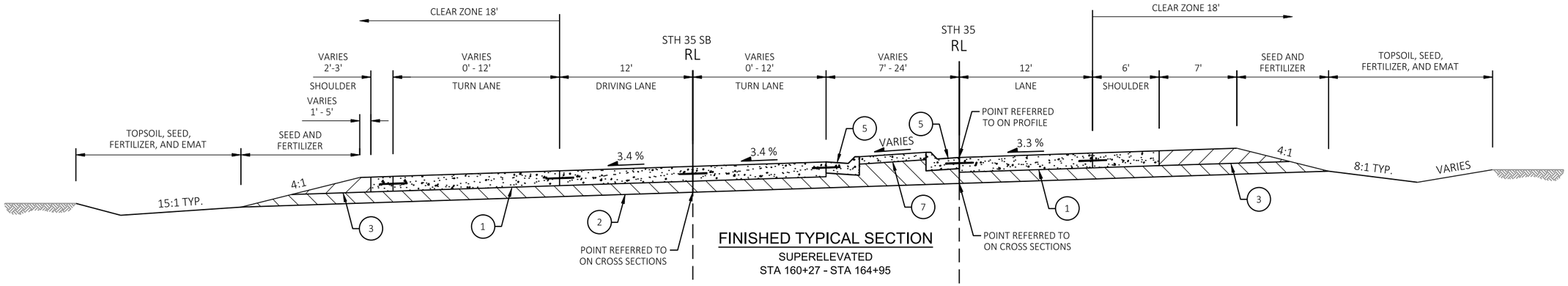
PARTIAL EXISTING SECTION
STA 203+78 - STA 207+72

PARTIAL EXISTING SECTION
STA 204+27 - STA 205+87



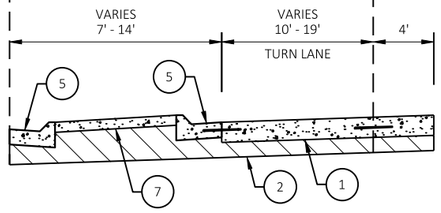
PARTIAL EXISTING SECTION
STA 205+87 - STA 208+92

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 9	E



FINISHED TYPICAL SECTION

SUPERELEVATED
STA 160+27 - STA 164+95



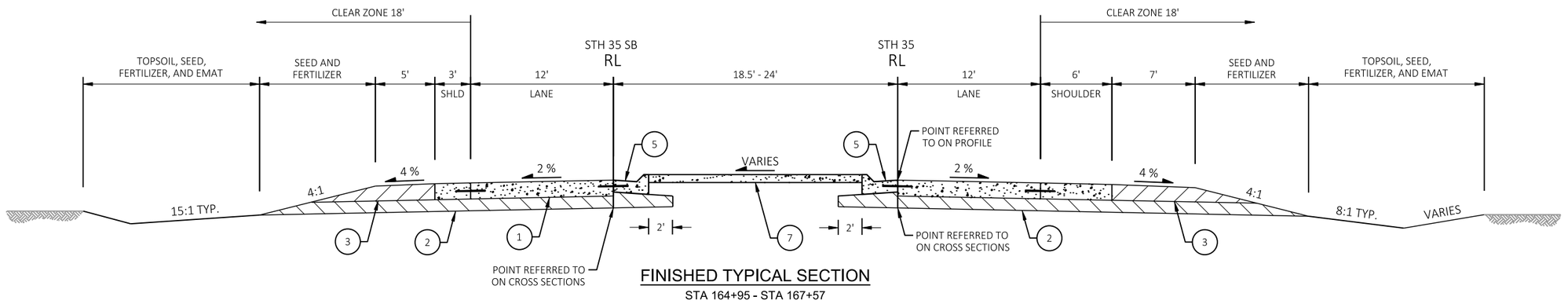
PARTIAL FINISHED SECTION

STA 160+27 - STA 160+84

LEGEND

1	CONCRETE PAVEMENT 8-INCH (DOWELED AND CONCRETE PAVEMENT JOINT FILLING) *
2	6" BASE AGGREGATE DENSE 1 1/4-INCH
3	BASE AGGREGATE DENSE 3/4-INCH
5	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
7	CONCRETE SIDEWALK 5-INCH

* CONCRETE PAVEMENT 8-INCH (DOWELED AND TINED)
STA 160+27 - STA 193+60



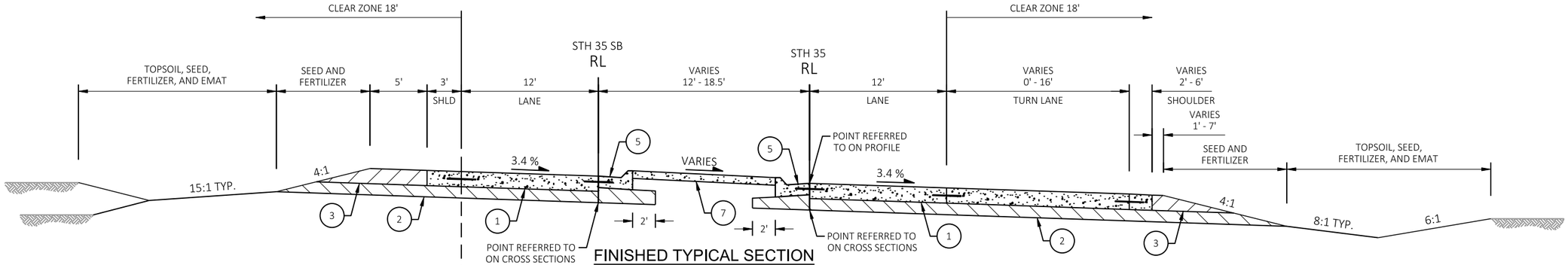
FINISHED TYPICAL SECTION

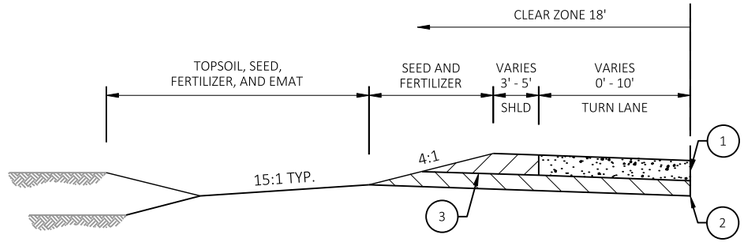
STA 164+95 - STA 167+57

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 10	E

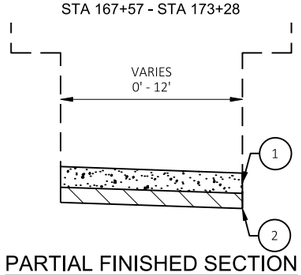
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\020301_TS.DWG
LAYOUT NAME - 020307-ts
PLOT DATE : 10/28/2022 12:09 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT

2





PARTIAL FINISHED SECTION
STA 171+48 - STA 173+28

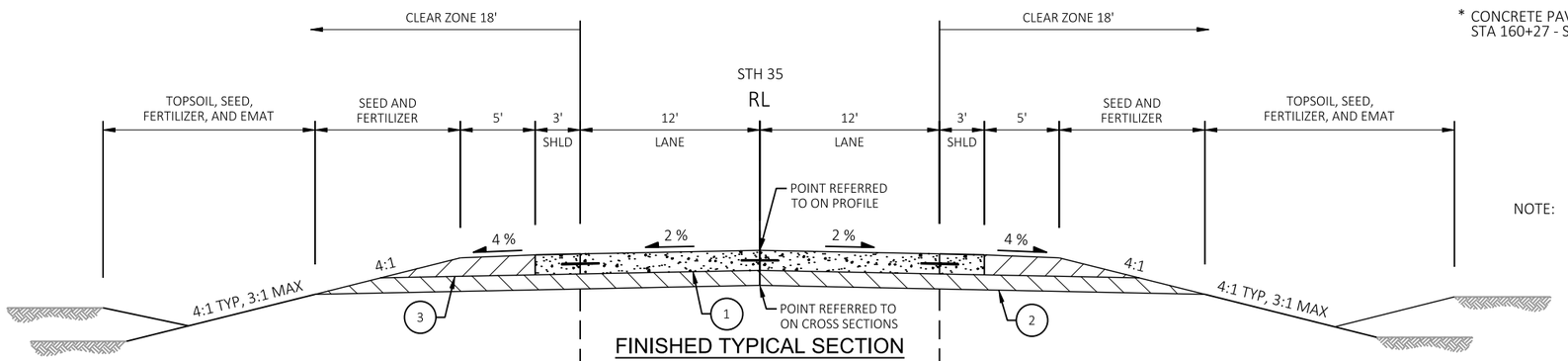


PARTIAL FINISHED SECTION
STA 169+24 - STA 173+28

LEGEND

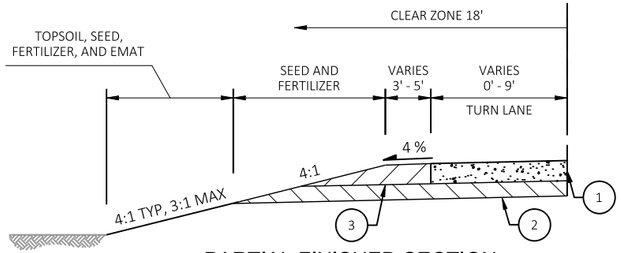
1	CONCRETE PAVEMENT 8-INCH (DOWELED AND CONCRETE PAVEMENT JOINT FILLING) *
2	6" BASE AGGREGATE DENSE 1 1/4-INCH
3	BASE AGGREGATE DENSE 3/4-INCH
5	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
7	CONCRETE SIDEWALK 5-INCH

* CONCRETE PAVEMENT 8-INCH (DOWELED AND TINED)
STA 160+27 - STA 193+60

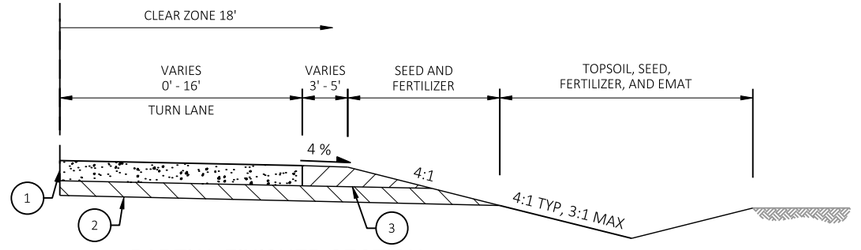


FINISHED TYPICAL SECTION
STA 173+28 - STA 185+00

NOTE: SEE ALSO TYPICAL PARTIAL FINISHED SECTION OF SHARED-USE PATH ADJACENT TO STH 35

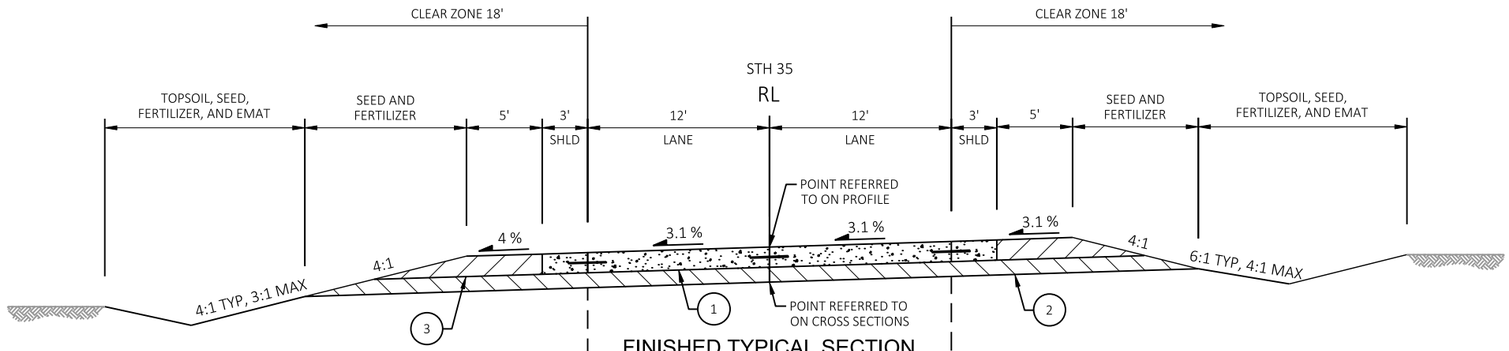


PARTIAL FINISHED SECTION
STA 173+28 - STA 174+99



PARTIAL FINISHED SECTION
STA 173+28 - STA 175+08

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 11	E

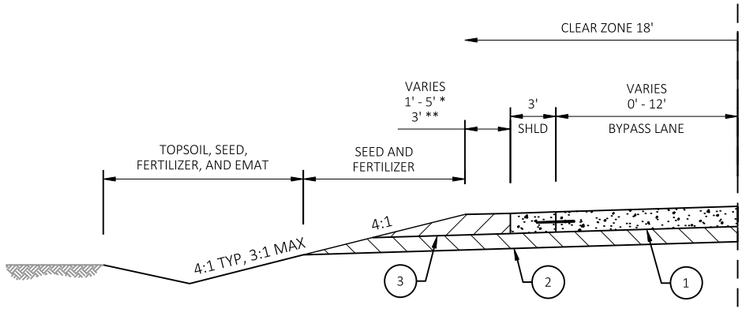


FINISHED TYPICAL SECTION

SUPERELEVATED

STA 185+00 - STA 200+00

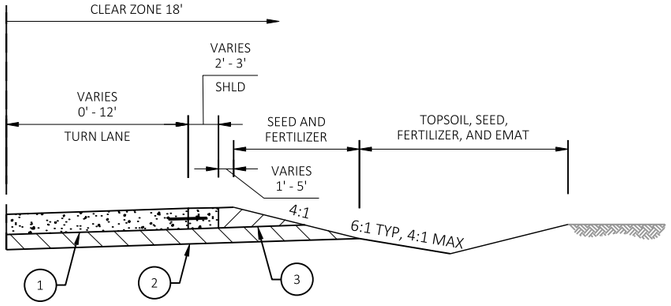
NOTE: SEE ALSO TYPICAL PARTIAL FINISHED SECTION OF SHARED-USE PATH ADJACENT TO STH 35



PARTIAL FINISHED SECTION

* STA 185+00 - STA 187+65

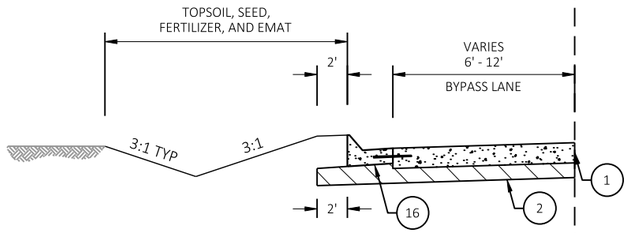
** STA 193+34 - STA 197+87



PARTIAL FINISHED SECTION

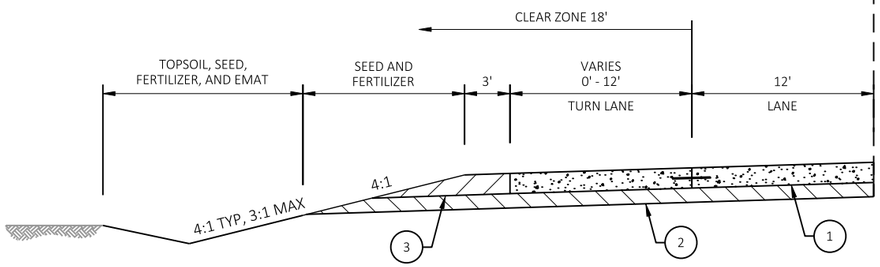
STA 185+43 - STA 191+59

STA 195+61 - STA 200+00



PARTIAL FINISHED SECTION

STA 187+65 - STA 193+34



PARTIAL FINISHED SECTION

STA 193+34 - STA 200+00

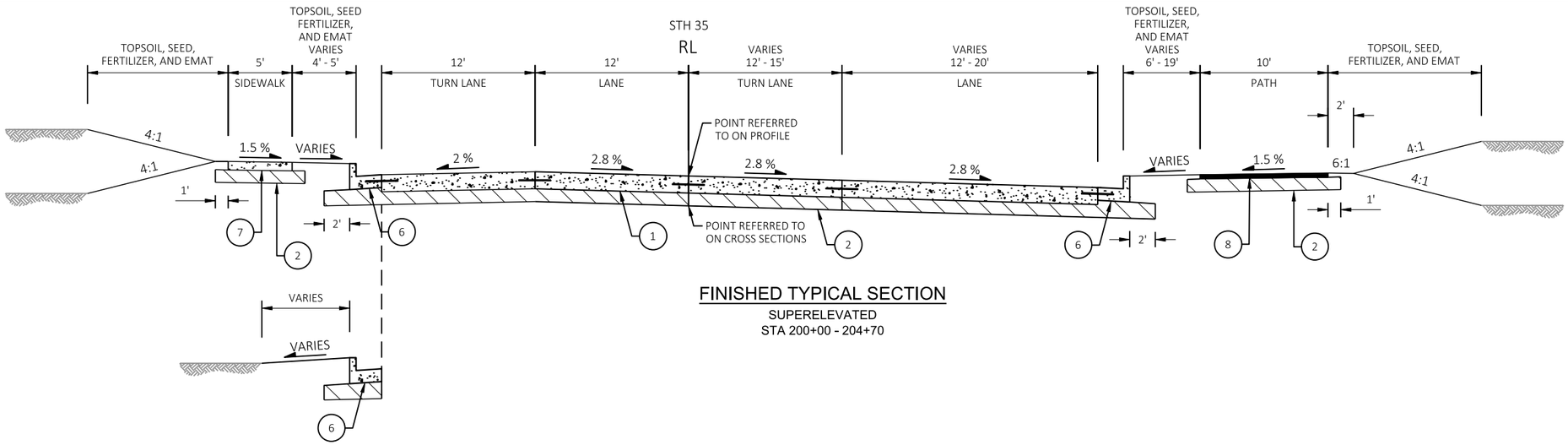
LEGEND

1	CONCRETE PAVEMENT 8-INCH (DOWELED AND CONCRETE PAVEMENT JOINT FILLING) *
2	6" BASE AGGREGATE DENSE 1 1/4-INCH
3	BASE AGGREGATE DENSE 3/4-INCH
16	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A

* CONCRETE PAVEMENT 8-INCH (DOWELED AND TINED)
STA 160+27 - STA 193+60

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 12	E

2



FINISHED TYPICAL SECTION

SUPERELEVATED
STA 200+00 - 204+70

PARTIAL FINISHED SECTION

STA 200+00 - STA 203+22

FINISHED TYPICAL SECTION

STA 204+70 - 210+07

PARTIAL FINISHED SECTION

STA 204+70 - STA 198+84

PARTIAL FINISHED SECTION

STA 205+15 - STA 205+89

PARTIAL FINISHED SECTION

STA 205+89 - STA 210+07

LEGEND

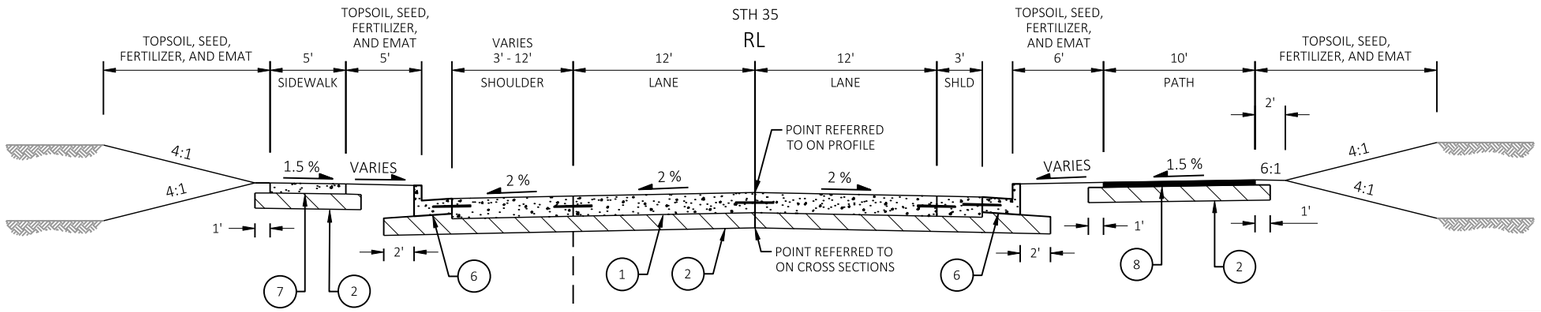
1	CONCRETE PAVEMENT 8-INCH (DOWELED AND CONCRETE PAVEMENT JOINT FILLING)
2	6" BASE AGGREGATE DENSE 1 1/4-INCH **
5	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
6	CONCRETE CURB & GUTTER 30-INCH TYPE A
7	CONCRETE SIDEWALK 5-INCH ***
8	2" HMA PAVEMENT 4 LT 58-34 S ****

** 8" BASE AGGREGATE DENSE 1 1/4-INCH FOR PE'S
10" BASE AGGREGATE DENSE 1 1/4-INCH FOR CE'S

*** CONCRETE SIDEWALK 6-INCH FOR PE'S, CE'S

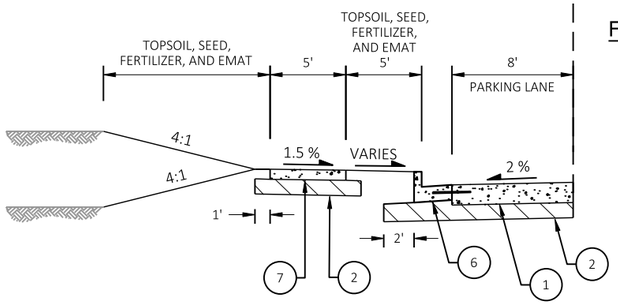
**** 3" HMA PAVEMENT 4 LT 58-34 S FOR PE'S
5" HMA PAVEMENT 4 LT 58-34 S FOR CE'S

2



FINISHED TYPICAL SECTION

STA 205+89 - 221+43



PARTIAL FINISHED SECTION

STA 209+45 - STA 214+00

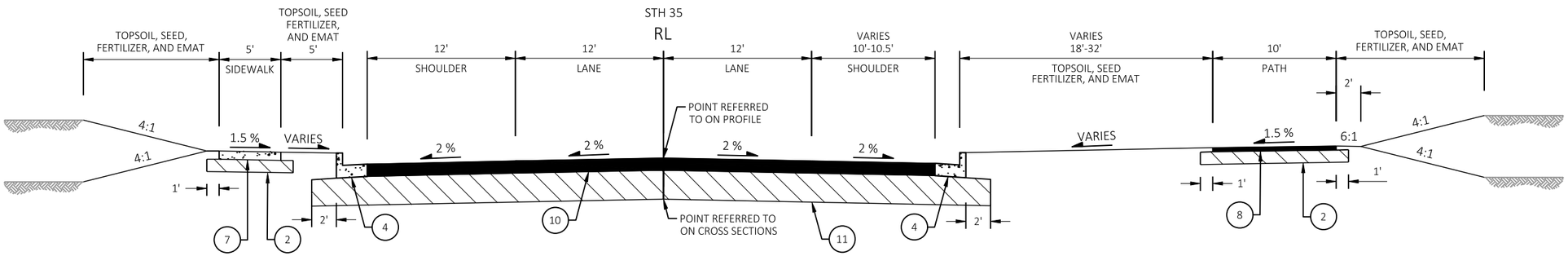
LEGEND

1	CONCRETE PAVEMENT 8-INCH (DOWELED AND CONCRETE PAVEMENT JOINT FILLING)
2	6" BASE AGGREGATE DENSE 1 1/4-INCH **
4	CONCRETE CURB & GUTTER 30-INCH TYPE D
6	CONCRETE CURB & GUTTER 30-INCH TYPE A
7	CONCRETE SIDEWALK 5-INCH ***
8	2" HMA PAVEMENT 4 LT 58-34 S ****
10	8" ASPHALTIC SURFACE - CONSTRUCT IN 3 LIFTS TWO 3" LOWER LIFTS, ONE 2" UPPER LIFT
11	12" BASE AGGREGATE DENSE 1 1/4-INCH

** 8" BASE AGGREGATE DENSE 1 1/4-INCH FOR PE'S
10" BASE AGGREGATE DENSE 1 1/4-INCH FOR CE'S

*** CONCRETE SIDEWALK 6-INCH FOR PE'S, CE'S

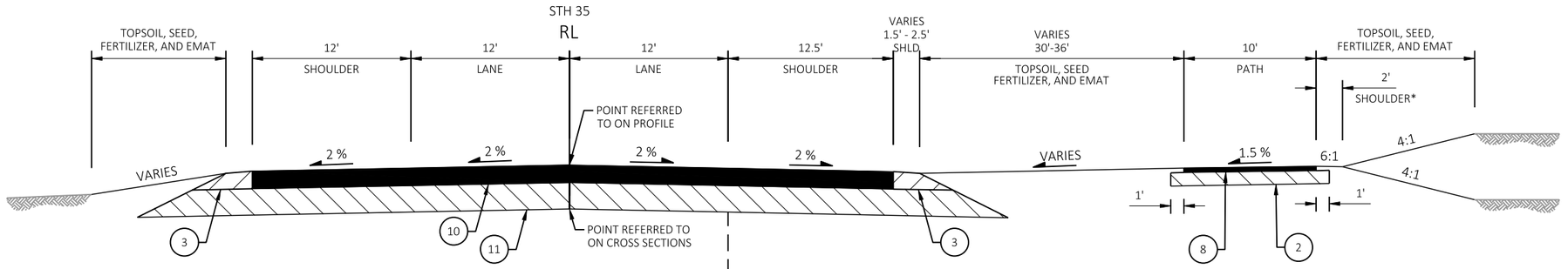
**** 3" HMA PAVEMENT 4 LT 58-34 S FOR PE'S
5" HMA PAVEMENT 4 LT 58-34 S FOR CE'S



FINISHED TYPICAL SECTION

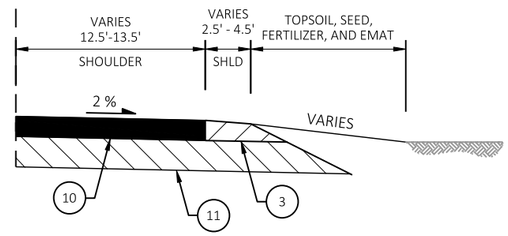
STA 221+43 - STA 222+31

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 14	E



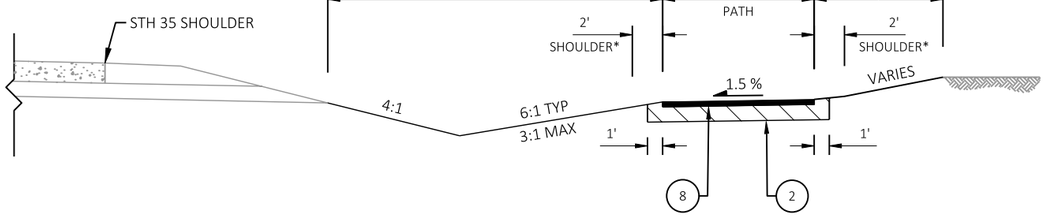
FINISHED TYPICAL SECTION

STA 221+82 - STA 222+31



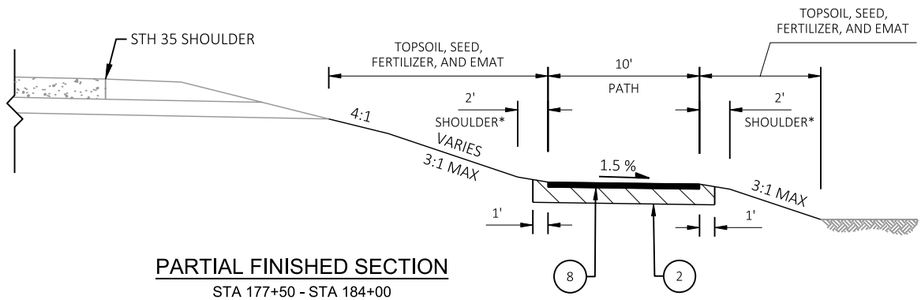
PARTIAL FINISHED SECTION

STA 222+00 - STA 222+31



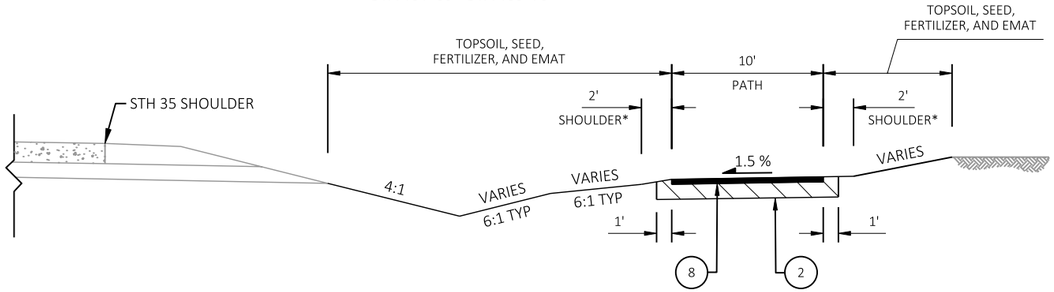
PARTIAL FINISHED SECTION

STA 174+50 - STA 177+50
STA 184+00 - STA 188+75



PARTIAL FINISHED SECTION

STA 177+50 - STA 184+00



PARTIAL FINISHED SECTION

STA 188+75 - STA 200+00

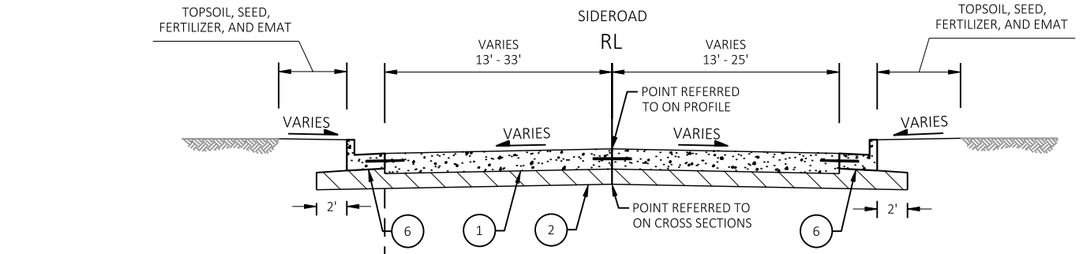
LEGEND

2	6" BASE AGGREGATE DENSE 1 1/4-INCH **
3	BASE AGGREGATE DENSE 3/4-INCH
8	2" HMA PAVEMENT 4 LT 58-34 S ****
10	8" ASPHALTIC SURFACE - CONSTRUCT IN 3 LIFTS TWO 3" LOWER LIFTS, ONE 2" UPPER LIFT
11	12" BASE AGGREGATE DENSE 1 1/4-INCH

** 8" BASE AGGREGATE DENSE 1 1/4-INCH FOR PE'S
10" BASE AGGREGATE DENSE 1 1/4-INCH FOR CE'S

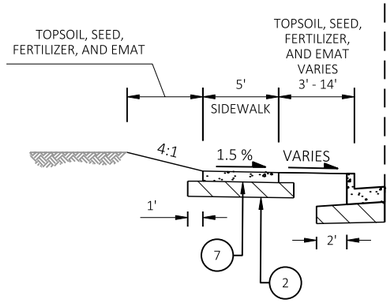
**** 3" HMA PAVEMENT 4 LT 58-34 S FOR PE'S
5" HMA PAVEMENT 4 LT 58-34 S FOR CE'S

2



FINISHED SIDEROAD TYPICAL SECTION

STA 20+30 'L' - STA 21+05 'L'
STA 8+71 'P' - STA 9+61 'P'
STA 10+10 'KT' - STA 10+53 'KT'
STA 10+13 'S' - STA 10+35 'S'



PARTIAL FINISHED SIDEROAD SECTION

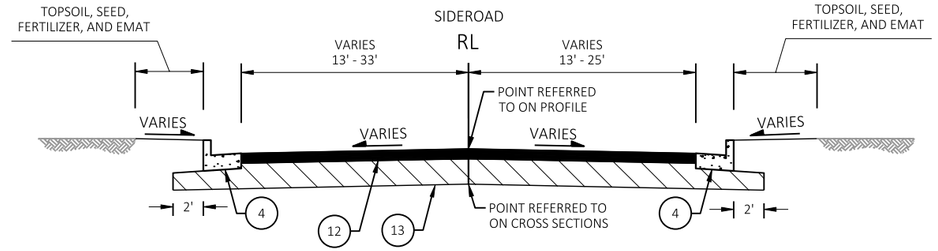
STA 8+71 'P' - STA 9+61 'P'

LEGEND

1	CONCRETE PAVEMENT 8-INCH (DOWELED AND CONCRETE PAVEMENT JOINT FILLING)
2	6" BASE AGGREGATE DENSE 1 1/4-INCH **
4	CONCRETE CURB & GUTTER 30-INCH TYPE D
5	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
6	CONCRETE CURB & GUTTER 30-INCH TYPE A
7	CONCRETE SIDEWALK 5-INCH ***
9	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
12	4" ASPHALTIC SURFACE
13	10" BASE AGGREGATE DENSE 1 1/4-INCH
14	4" BASE AGGREGATE DENSE 3/4-INCH

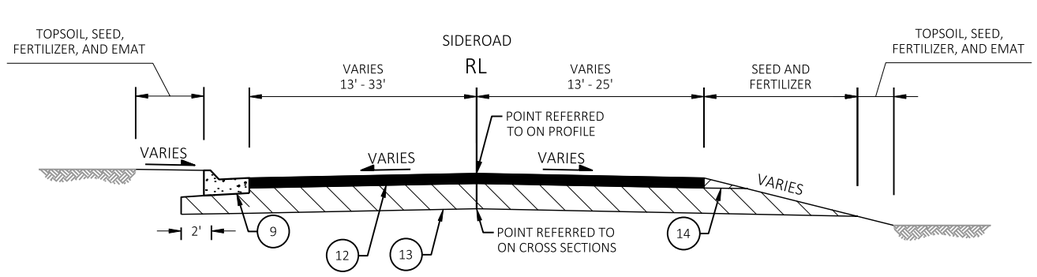
** 8" BASE AGGREGATE DENSE 1 1/4-INCH FOR PE'S
10" BASE AGGREGATE DENSE 1 1/4-INCH FOR CE'S

*** CONCRETE SIDEWALK 6-INCH FOR PE'S, CE'S



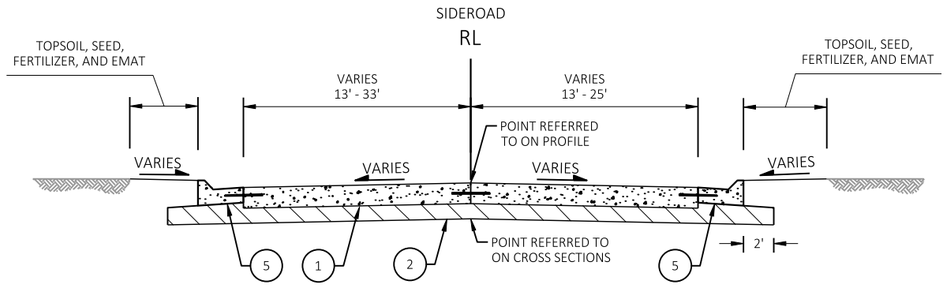
FINISHED SIDEROAD TYPICAL SECTION

STA 21+05 'L' - STA 21+10 'L'
STA 7+89 'P' - STA 8+71 'P'
STA 10+35 'S' - STA 10+45 'S'



FINISHED SIDEROAD TYPICAL SECTION

STA 19+06 'TH' - STA 19+16 'TH'



FINISHED SIDEROAD TYPICAL SECTION

STA 19+16 'TH' - STA 19+81 'TH'

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 16	E

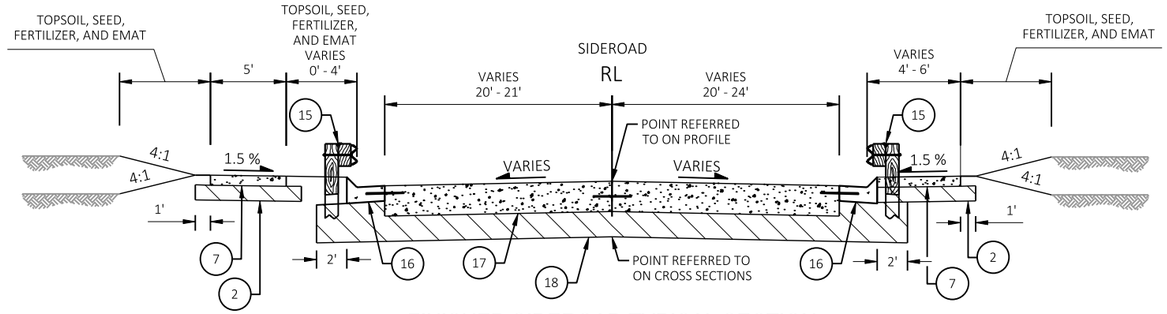
2

LEGEND

1	CONCRETE PAVEMENT 8-INCH (DOWELED AND CONCRETE PAVEMENT JOINT FILLING)
2	6" BASE AGGREGATE DENSE 1 1/4-INCH **
4	CONCRETE CURB & GUTTER 30-INCH TYPE D
5	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
6	CONCRETE CURB & GUTTER 30-INCH TYPE A
7	CONCRETE SIDEWALK 5-INCH ***
9	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
12	4" ASPHALTIC SURFACE
13	10" BASE AGGREGATE DENSE 1 1/4-INCH
14	4" BASE AGGREGATE DENSE 3/4-INCH
15	GUARDRAIL
16	CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE TBTT
17	CONCRETE PAVEMENT APPROACH SLAB
18	10" BASE AGGREGATE DENSE 1 1/4-INCH

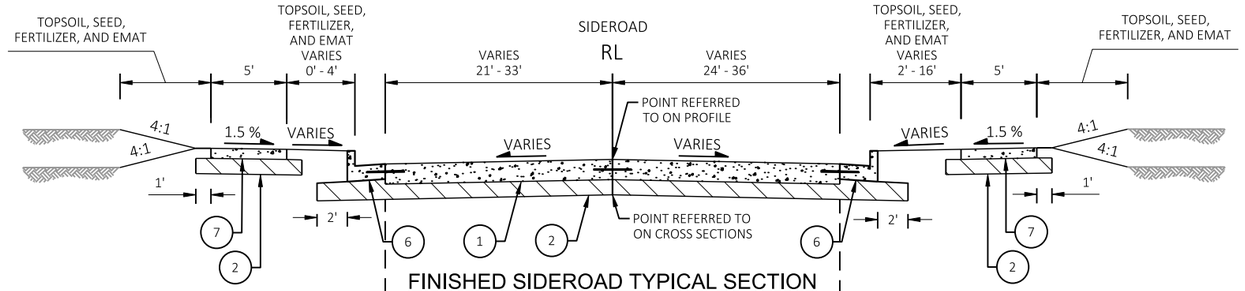
** 8" BASE AGGREGATE DENSE 1 1/4-INCH FOR PE'S
10" BASE AGGREGATE DENSE 1 1/4-INCH FOR CE'S

*** CONCRETE SIDEWALK 6-INCH FOR PE'S, CE'S



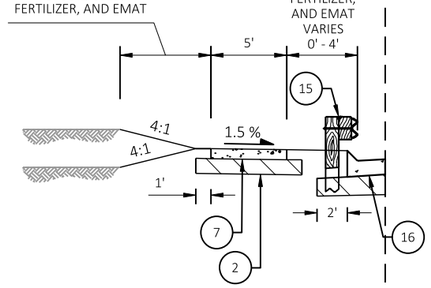
FINISHED SIDEROAD TYPICAL SECTION

STA 8+11 'M' - STA 8+33 'M'



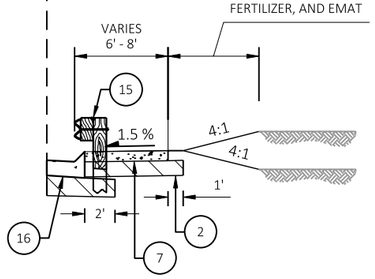
FINISHED SIDEROAD TYPICAL SECTION

STA 8+33 'M' - STA 9+53 'M'



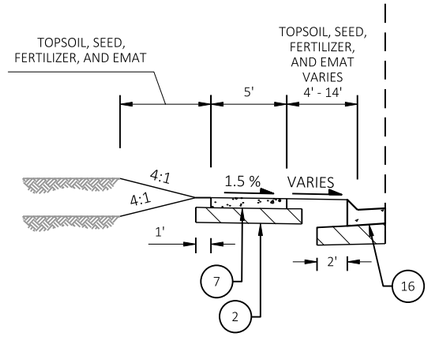
PARTIAL FINISHED SIDEROAD SECTION

STA 8+33 'M' - STA 8+73 'M'



PARTIAL FINISHED SIDEROAD SECTION

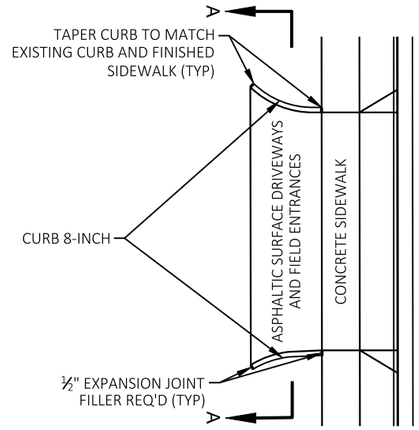
STA 8+33 'M' - STA 8+69 'M'



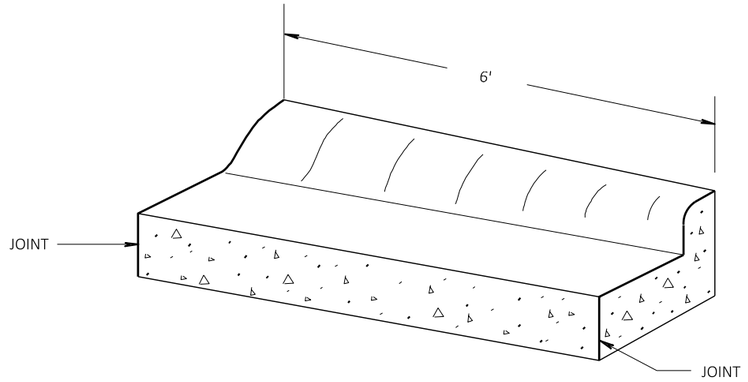
PARTIAL FINISHED SIDEROAD SECTION

STA 8+73 'M' - STA 9+08 'M'

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 17 E

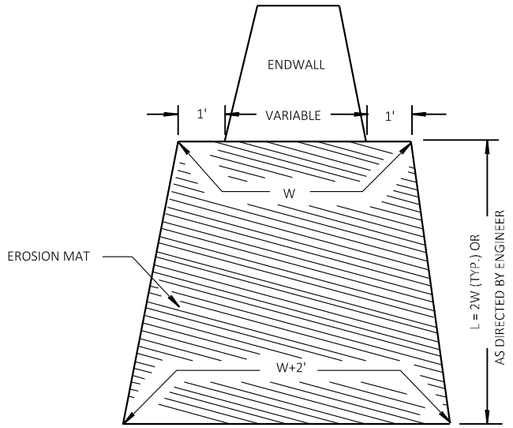


PLAN VIEW

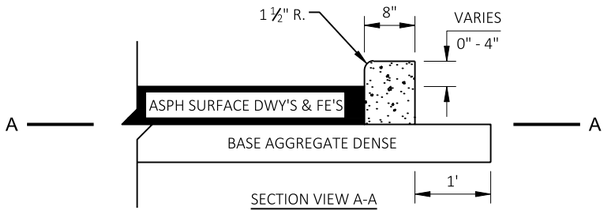


TRANSITION DETAIL

CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH (C&G 36-INCH)
TRANSITION TO CONCRETE CURB & GUTTER 30-INCH PAID AS C&G 36-INCH

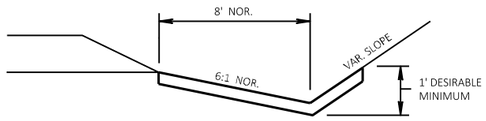


EROSION MAT TREATMENT AT CULVERTS



SECTION VIEW A-A

CURB 8-INCH DETAIL
STA 207+46, LT

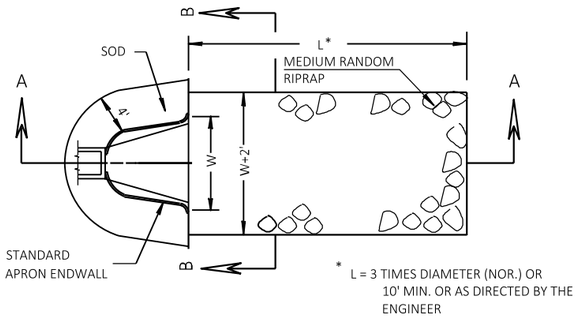


EROSION MAT DETAIL FOR DITCHES

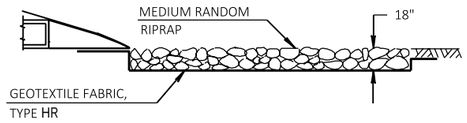
RUNOFF COEFFICIENT TABLE

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

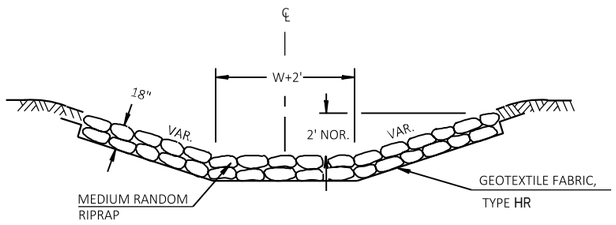
TOTAL PROJECT AREA = 22.27 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 14.19 ACRES



* L = 3 TIMES DIAMETER (NOR.) OR 10' MIN. OR AS DIRECTED BY THE ENGINEER

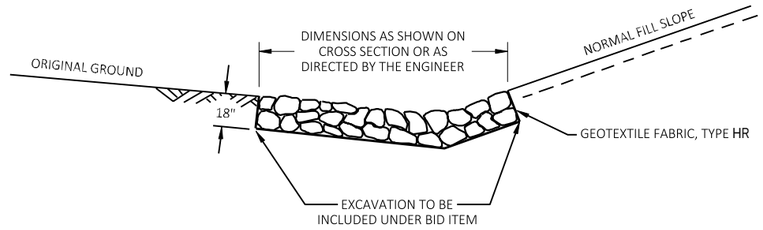


SECTION A-A

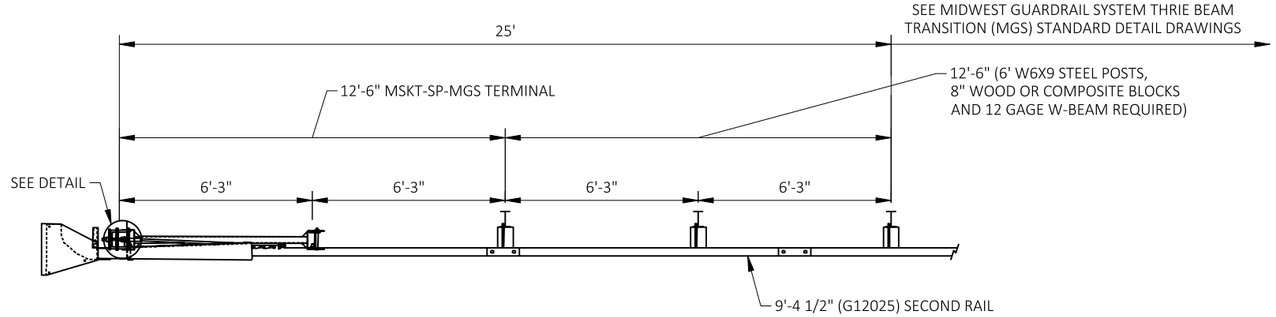


SECTION B-B

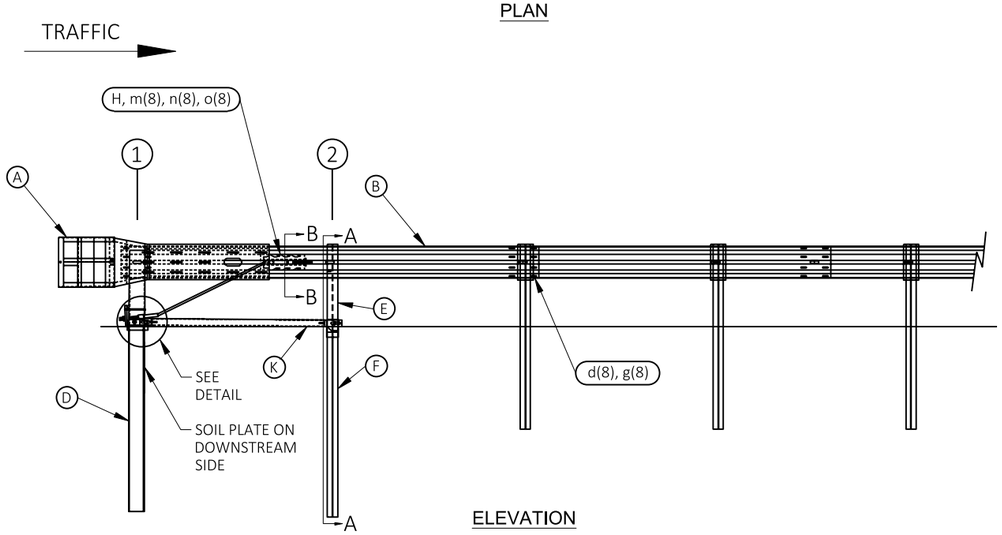
SOD, MEDIUM RANDOM RIPRAP AND GEOTEXTILE FABRIC DETAIL AT ARPON ENDWALL



DETAIL FOR RIPRAP IN DITCHES

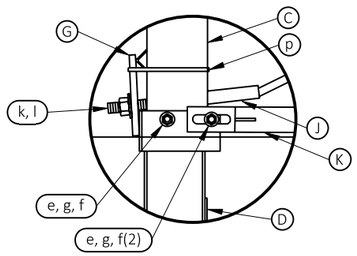


PLAN

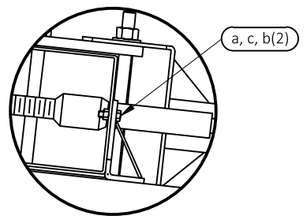


ELEVATION

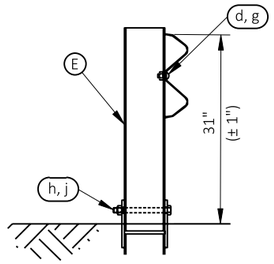
ITEM	QTY	BILL OF MATERIALS	ITEM NO.
A	1	IMPACT HEAD	MS3000
B	1	W-BEAM GUARDRAIL END SECTION, 12 Ga	SF1303
C	1	FIRST POST TOP (6x6x⅛" TUBE)	MTPHP1A
D	1	FIRST POST BOTTOM (6' W6x15)	MTPHP1B
E	1	SECOND POST ASSEMBLY TOP	UHP2A
F	1	SECOND POST ASSEMBLY BOTTOM	HP2B
G	1	BEARING PLATE	E750
H	1	CABLE ANCHOR BOX	S760
J	1	BCT CABLE ANCHOR ASSEMBLY	E770
K	1	STRUT	MS785
		HARDWARE (ALL DIMENSIONS IN INCHES)	
a	2	5/16 X 1 HEX BOLT GRD 5	B5160104A
b	4	5/16 WASHER	W0516
c	2	5/16 HEX NUT	N0516
d	9	5/8 Dia. x 1 1/4 SPLICE BOLT (POST #2)	B580122
e	2	5/8 Dia. x 9 HEX BOLT GRD 5	B580904A
f	3	5/8 WASHER	W050
g	11	5/8 Dia. H.G.R NUT	N050
h	1	3/4 Dia. x 8 1/2 HEX BOLT GRD A449	B340854A
j	1	3/4 Dia. HEX NUT	N030
k	2	1 ANCHOR CABLE HEX NUT	N100
l	2	1 ANCHOR CABLE WASHER	W100
m	8	1/2 RSI SHOULDER BOLT W/WASHER	SB12A
n	8	1/2 STRUCTURAL NUT	N012A
o	8	1/2 STRUCTUAL WASHER	W012A
p	1	BEARING PLATE RETAINER TIE	CT-100ST



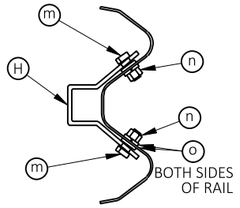
POST #1 CONNECTION DETAIL



IMPACT HEAD CONNECTION DETAIL



SECTION A-A
POST #2



SECTION B-B
ANCHOR BRACKET

GENERAL NOTES:

1. ALL BOLTS, NUTS CABLE, ASSEMBLIES, CABLE ANCHORS AND BEARING PLATES SHALL BE GALVANIZED.
2. THE LOWER SECTIONS OF THE POSTS 1&2 SHALL NOT PROTRUDE MORE THAN 4 IN ABOVE THE GROUND (MEASURED ALONG A 5' CORD). SITE GRADING MAY BE NECESSARY TO MEET THIS REQUIREMENT.
3. THE LOWER SECTION OF THE HINGED POST SHOULD NOT BE DRIVEN WITH THE UPPER POST ATTACHED. IF THE POST IS PLACED IN A DRILLED HOLE, BACKFILL MATERIAL MUST BE SATISFACTORILY COMPACTED TO PREVENT SETTLEMENT.
4. WHEN COMPETENT ROCK IS ENCOUNTERED, A 12" Ø POST HOLE, 20 IN. DEEP CORED INTO THE ROCK SURFACE MAY BE USED IF APPROVED BY THE ENGINEER FOR POSTS 1 AND/OR 2. GRANULAR MATERIAL WILL BE PLACED IN THE BOTTOM OF THE HOLE, APPROXIMATELY 2.5" DEEP TO PROVIDE DRAINAGE. THE FIRST AND/OR SECOND POST CAN BE FILED CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH SUITABLE BACKFILL. THE SOIL PLATE MAY BE TRIMMED IF REQUIRED.
5. THE BREAKAWAY CABLE ASSEMBLY MUST BE TAUT. A LOCKING DEVICE (VICE GRIPS OR CHANNEL LOCK PLIERS) SHOULD BE USED TO PREVENT THE CABLE FROM TWISTING WHEN TIGHTENED NUTS.

TERMINAL EAT TL-2

STA 8+06 'M' - STA 8+70 'M' RT
STA 8+09 'M' - STA 8+73 'M' LT

2

N

SLOPE INTERCEPT

SEE PLANS FOR FENCE DETAILS

GUARDRAIL TERMINAL EAT TL-2
1' FLARE
SEE CONSTRUCTION DETAIL

CONCRETE CURB & GUTTER 4-INCH
SLOPED 30-INCH TYPE TBTT

5' SIDEWALK

STA 8+68.99 'M', -26.05' LT

STA 8+69.47 'M', 20.48' LT

STA 8+75.21 'M', -26.56' LT

STA 8+50.35 'M', -24.53' LT

EXISTING PARAPET

BACK OF CURB (TYP)

CONCRETE CURB & GUTTER
30-INCH TYPE A (TYP)

STA 9+02.81 'M', 26.33' LT
BEGIN 6' TRANSITION FROM CONCRETE CURB & GUTTER
4-INCH SLOPED 30-INCH TYPE TBTT (DRIVEWAY CURB HEAD)
TO CONCRETE CURB & GUTTER 30-INCH TYPE A

STA 8+29 'M' - STA 9+02.81 'M'
CONCRETE CURB & GUTTER 4-INCH
SLOPED 30-INCH TYPE TBTT
(DRIVEWAY CURB HEAD)

3.13' 3.13' 3.13' 3.13' 3.12' 3.13' 3.13'

6.25' 6.25' 6.25' 6.25'

25.0'
TERMINAL EAT TL-2

39.4'
MGS THRIE BEAM TRANSITION

SEE APPROACH GUARDRAIL
TRANSITION DETAIL

STA 8+29 'M' BEGIN 6' TRANSITION TO CONCRETE CURB & GUTTER
4-INCH SLOPED 30-INCH TYPE TBTT (DRIVEWAY CURB HEAD)

CONCRETE PAVEMENT
APPROACH SLAB

B-55-920

15'

PI: 9+09.07 'M'

9+00 'M'

8+00 'M'

MAIN STREET

39.4'
MGS THRIE BEAM TRANSITION

25.0'
TERMINAL EAT TL-2

3.13' 3.13' 3.13' 3.13' 3.12' 3.13' 3.13'

6.25' 6.25' 6.25' 6.25'

STA 8+53 'M' - STA 9+19.33 'M'
CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE TBTT (DRIVEWAY CURB HEAD)

STA 9+19.33 'M', 36.0' RT
BEGIN TRANSITION FROM CONCRETE CURB & GUTTER
4-INCH SLOPED 30-INCH TYPE TBTT (DRIVEWAY CURB
HEAD) TO CONCRETE CURB & GUTTER 30-INCH TYPE A

STA 8+88.06 'M', 34.15' RT

CONCRETE CURB & GUTTER
30-INCH TYPE A (TYP)

EXISTING PARAPET

STA 8+47.05 'M', 29.42' RT

BACK OF CURB (TYP)

SEE PLANS FOR FENCE DETAILS

5' SIDEWALK

STA 8+65.17 'M', 34.01' RT

GUARDRAIL TERMINAL EAT TL-2
1' FLARE
SEE CONSTRUCTION DETAIL

CONCRETE CURB & GUTTER 4-INCH
SLOPED 30-INCH TYPE TBTT

SLOPE INTERCEPT

STA 8+53 'M' BEGIN 6' TRANSITION TO CONCRETE CURB & GUTTER
4-INCH SLOPED 30-INCH TYPE TBTT (DRIVEWAY CURB HEAD)

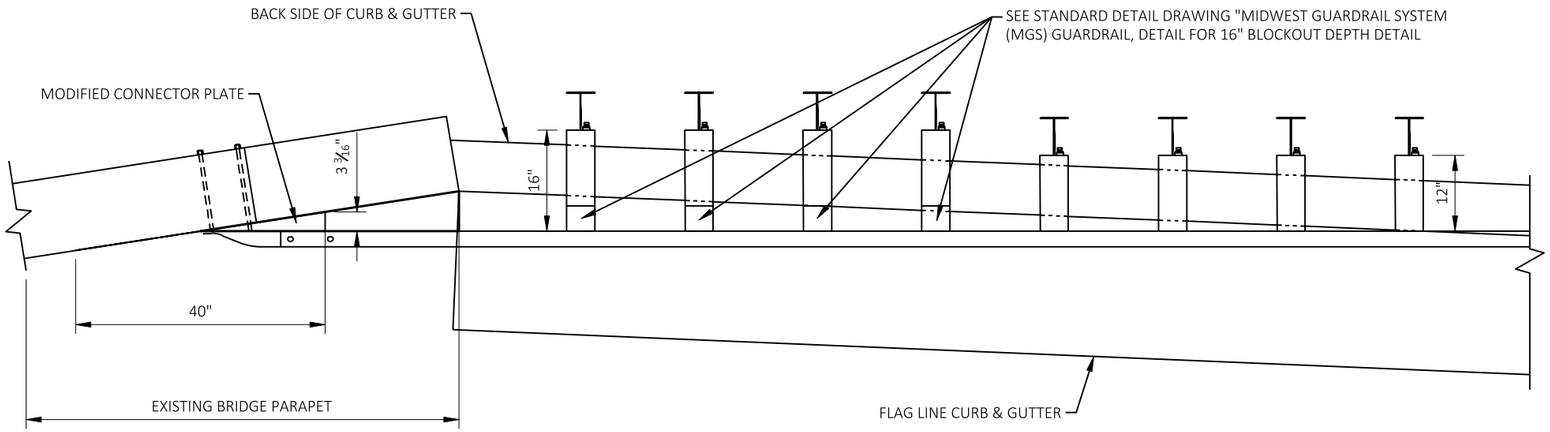
STA 8+71.23 'M', 35.54' RT

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CONSTRUCTION DETAILS	SHEET 21	E

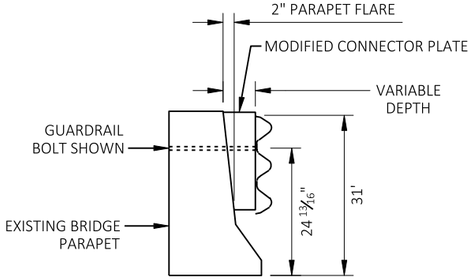
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\021005_CD.DWG
LAYOUT NAME - 021003_cd

PLOT DATE : 11/1/2022 9:51 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT

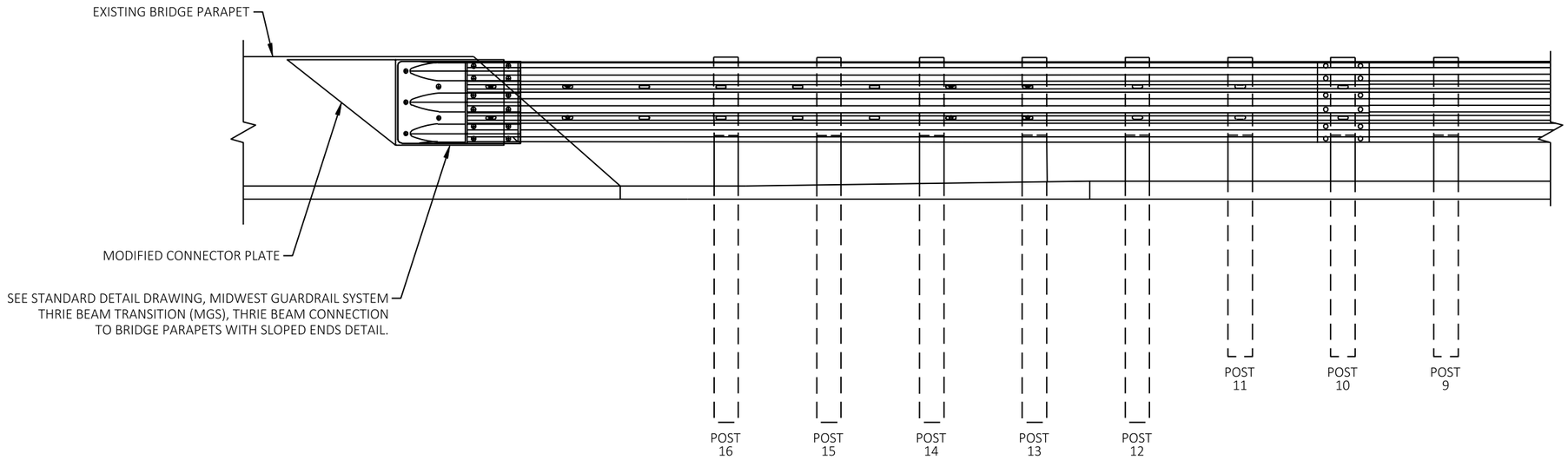
2



PLAN



CONNECTOR PLATE AT BRIDGE PARAPET

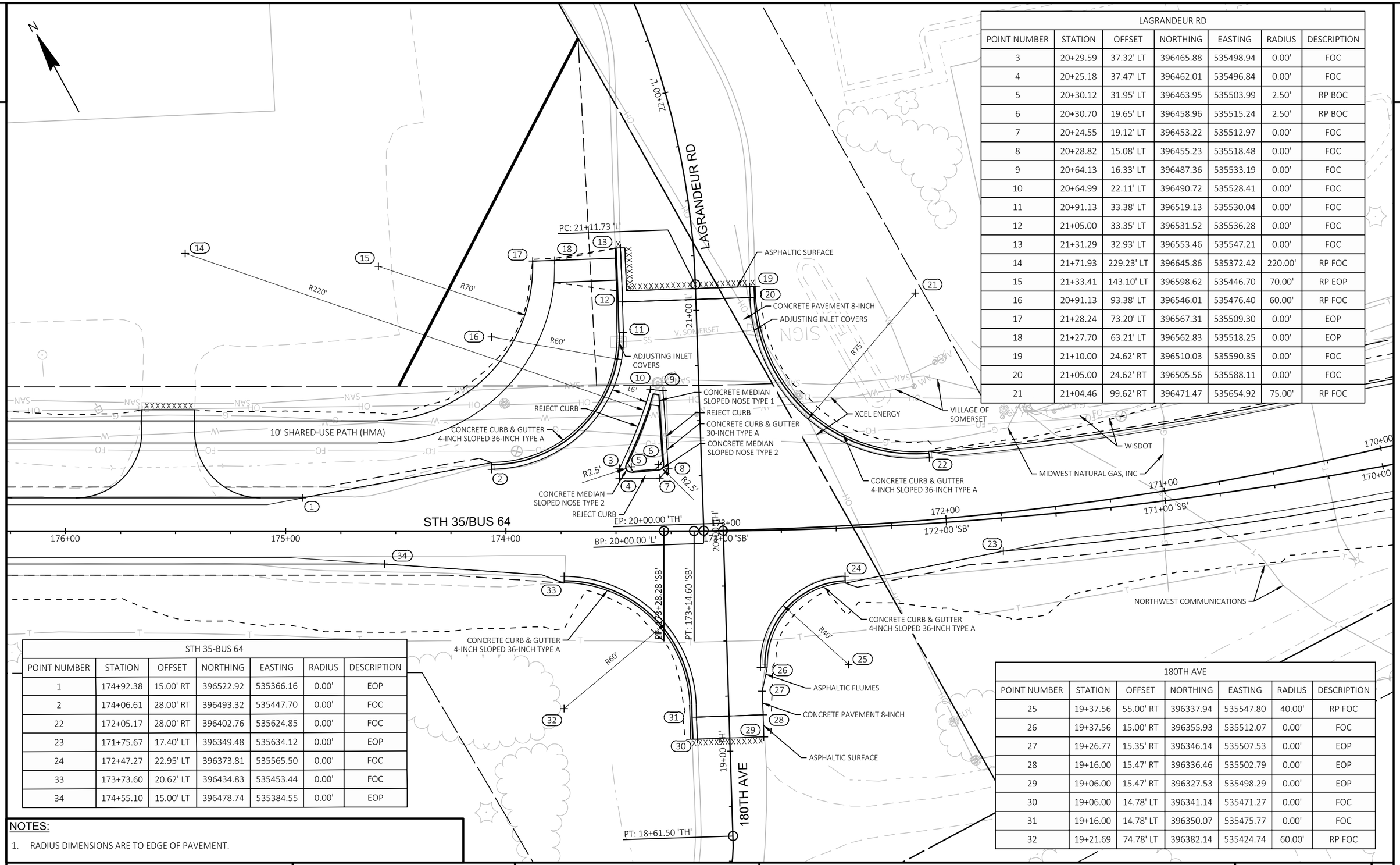


ELEVATION

APPROACH GUARDRAIL TRANSITION DETAIL

NORTH SIDE OF MAIN STREET

2



LAGRANDEUR RD						
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	RADIUS	DESCRIPTION
3	20+29.59	37.32' LT	396465.88	535498.94	0.00'	FOC
4	20+25.18	37.47' LT	396462.01	535496.84	0.00'	FOC
5	20+30.12	31.95' LT	396463.95	535503.99	2.50'	RP BOC
6	20+30.70	19.65' LT	396458.96	535515.24	2.50'	RP BOC
7	20+24.55	19.12' LT	396453.22	535512.97	0.00'	FOC
8	20+28.82	15.08' LT	396455.23	535518.48	0.00'	FOC
9	20+64.13	16.33' LT	396487.36	535533.19	0.00'	FOC
10	20+64.99	22.11' LT	396490.72	535528.41	0.00'	FOC
11	20+91.13	33.38' LT	396519.13	535530.04	0.00'	FOC
12	21+05.00	33.35' LT	396531.52	535536.28	0.00'	FOC
13	21+31.29	32.93' LT	396553.46	535547.21	0.00'	FOC
14	21+71.93	229.23' LT	396645.86	535372.42	220.00'	RP FOC
15	21+33.41	143.10' LT	396598.62	535446.70	70.00'	RP EOP
16	20+91.13	93.38' LT	396546.01	535476.40	60.00'	RP FOC
17	21+28.24	73.20' LT	396567.31	535509.30	0.00'	EOP
18	21+27.70	63.21' LT	396562.83	535518.25	0.00'	EOP
19	21+10.00	24.62' RT	396510.03	535590.35	0.00'	FOC
20	21+05.00	24.62' RT	396505.56	535588.11	0.00'	FOC
21	21+04.46	99.62' RT	396471.47	535654.92	75.00'	RP FOC

STH 35-BUS 64						
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	RADIUS	DESCRIPTION
1	174+92.38	15.00' RT	396522.92	535366.16	0.00'	EOP
2	174+06.61	28.00' RT	396493.32	535447.70	0.00'	FOC
22	172+05.17	28.00' RT	396402.76	535624.85	0.00'	FOC
23	171+75.67	17.40' LT	396349.48	535634.12	0.00'	EOP
24	172+47.27	22.95' LT	396373.81	535565.50	0.00'	FOC
33	173+73.60	20.62' LT	396434.83	535453.44	0.00'	FOC
34	174+55.10	15.00' LT	396478.74	535384.55	0.00'	EOP

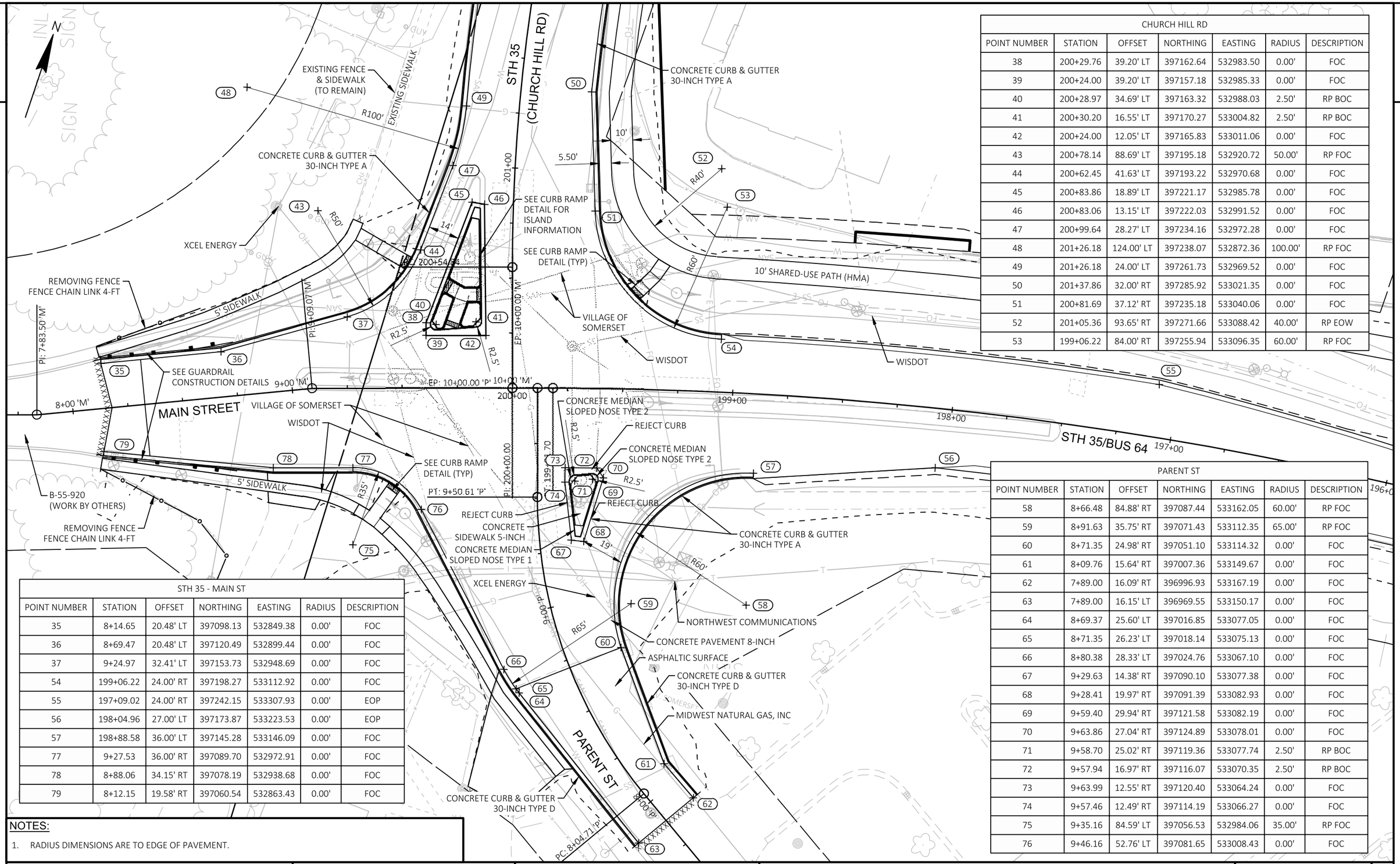
180TH AVE						
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	RADIUS	DESCRIPTION
25	19+37.56	55.00' RT	396337.94	535547.80	40.00'	RP FOC
26	19+37.56	15.00' RT	396355.93	535512.07	0.00'	FOC
27	19+26.77	15.35' RT	396346.14	535507.53	0.00'	EOP
28	19+16.00	15.47' RT	396336.46	535502.79	0.00'	EOP
29	19+06.00	15.47' RT	396327.53	535498.29	0.00'	EOP
30	19+06.00	14.78' LT	396341.14	535471.27	0.00'	FOC
31	19+16.00	14.78' LT	396350.07	535475.77	0.00'	FOC
32	19+21.69	74.78' LT	396382.14	535424.74	60.00'	RP FOC

NOTES:

1. RADIUS DIMENSIONS ARE TO EDGE OF PAVEMENT.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	INTERSECTION DETAILS	SHEET 23	E

2



CHURCH HILL RD						
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	RADIUS	DESCRIPTION
38	200+29.76	39.20' LT	397162.64	532983.50	0.00'	FOC
39	200+24.00	39.20' LT	397157.18	532985.33	0.00'	FOC
40	200+28.97	34.69' LT	397163.32	532988.03	2.50'	RP BOC
41	200+30.20	16.55' LT	397170.27	533004.82	2.50'	RP BOC
42	200+24.00	12.05' LT	397165.83	533011.06	0.00'	FOC
43	200+78.14	88.69' LT	397195.18	532920.72	50.00'	RP FOC
44	200+62.45	41.63' LT	397193.22	532970.68	0.00'	FOC
45	200+83.86	18.89' LT	397221.17	532985.78	0.00'	FOC
46	200+83.06	13.15' LT	397222.03	532991.52	0.00'	FOC
47	200+99.64	28.27' LT	397234.16	532972.28	0.00'	FOC
48	201+26.18	124.00' LT	397238.07	532872.36	100.00'	RP FOC
49	201+26.18	24.00' LT	397261.73	532969.52	0.00'	FOC
50	201+37.86	32.00' RT	397285.92	533021.35	0.00'	FOC
51	200+81.69	37.12' RT	397235.18	533040.06	0.00'	FOC
52	201+05.36	93.65' RT	397271.66	533088.42	40.00'	RP EOW
53	199+06.22	84.00' RT	397255.94	533096.35	60.00'	RP FOC

STH 35 - MAIN ST						
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	RADIUS	DESCRIPTION
35	8+14.65	20.48' LT	397098.13	532849.38	0.00'	FOC
36	8+69.47	20.48' LT	397120.49	532899.44	0.00'	FOC
37	9+24.97	32.41' LT	397153.73	532948.69	0.00'	FOC
54	199+06.22	24.00' RT	397198.27	533112.92	0.00'	FOC
55	197+09.02	24.00' RT	397242.15	533307.93	0.00'	EOP
56	198+04.96	27.00' LT	397173.87	533223.53	0.00'	EOP
57	198+88.58	36.00' LT	397145.28	533146.09	0.00'	FOC
77	9+27.53	36.00' RT	397089.70	532972.91	0.00'	FOC
78	8+88.06	34.15' RT	397078.19	532938.68	0.00'	FOC
79	8+12.15	19.58' RT	397060.54	532863.43	0.00'	FOC

PARENT ST						
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	RADIUS	DESCRIPTION
58	8+66.48	84.88' RT	397087.44	533162.05	60.00'	RP FOC
59	8+91.63	35.75' RT	397071.43	533112.35	65.00'	RP FOC
60	8+71.35	24.98' RT	397051.10	533114.32	0.00'	FOC
61	8+09.76	15.64' RT	397007.36	533149.67	0.00'	FOC
62	7+89.00	16.09' RT	396996.93	533167.19	0.00'	FOC
63	7+89.00	16.15' LT	396969.55	533150.17	0.00'	FOC
64	8+69.37	25.60' LT	397016.85	533077.05	0.00'	FOC
65	8+71.35	26.23' LT	397018.14	533075.13	0.00'	FOC
66	8+80.38	28.33' LT	397024.76	533067.10	0.00'	FOC
67	9+29.63	14.38' RT	397090.10	533077.38	0.00'	FOC
68	9+28.41	19.97' RT	397091.39	533082.93	0.00'	FOC
69	9+59.40	29.94' RT	397121.58	533082.19	0.00'	FOC
70	9+63.86	27.04' RT	397124.89	533078.01	0.00'	FOC
71	9+58.70	25.02' RT	397119.36	533077.74	2.50'	RP BOC
72	9+57.94	16.97' RT	397116.07	533070.35	2.50'	RP BOC
73	9+63.99	12.55' RT	397120.40	533064.24	0.00'	FOC
74	9+57.46	12.49' RT	397114.19	533066.27	0.00'	FOC
75	9+35.16	84.59' LT	397056.53	532984.06	35.00'	RP FOC
76	9+46.16	52.76' LT	397081.65	533008.43	0.00'	FOC

NOTES:

1. RADIUS DIMENSIONS ARE TO EDGE OF PAVEMENT.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	INTERSECTION DETAILS	SHEET 24	E

2

STH 35-CHURCH HILL RD						
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	RADIUS	DESCRIPTION
80	203+01.44	32.00' RT	397441.71	533001.46	0.00'	FOC
81	204+31.07	31.00' RT	397571.03	532997.71	0.00'	FOC
88	205+75.07	31.00' RT	397715.00	532994.67	0.00'	FOC
89	206+60.54	31.19' RT	397801.98	532992.84	0.00'	FOC
90	206+61.47	23.83' LT	397799.05	532937.89	0.00'	FOC
91	205+91.07	8.00' RT	397730.51	532971.34	0.00'	FOC
92	205+91.07	0.00'	397730.34	532963.34	0.00'	FOC
93	205+87.07	4.00' RT	397726.43	532967.42	1.50'	RP BOC
94	205+17.07	34.51' RT	397657.09	532999.40	28.50'	RP BOC
95	204+93.15	14.00' RT	397632.74	532979.40	3.00'	RP BOC
96	204+68.57	15.00' RT	397608.19	532980.92	2.00'	RP BOC
97	204+44.73	21.98' LT	397583.57	532944.45	42.00'	RP BOC
98	204+79.98	3.50' RT	397619.36	532969.18	1.50'	RP BOC
99	204+59.81	15.06' RT	397599.44	532981.17	0.00'	FOC
100	204+59.81	19.00' RT	397599.52	532985.10	0.00'	FOC
101	203+08.06	24.00' LT	397446.89	532945.31	0.00'	FOC

KWIK TRIP ENTRANCE						
POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	RADIUS	DESCRIPTION
82	10+19.72	44.04' RT	397599.91	533003.48	0.00'	FOC
83	10+54.10	50.59' RT	397593.05	533037.80	35.00'	RP FOC
84	10+53.43	15.59' RT	397628.05	533037.45	0.00'	FOC
85	10+52.82	15.83' LT	397659.47	533037.13	0.00'	FOC
86	10+51.72	50.81' LT	397694.46	533036.34	35.00'	RP FOC
87	10+17.97	41.52' LT	397685.48	533002.51	0.00'	FOC

NOTES:

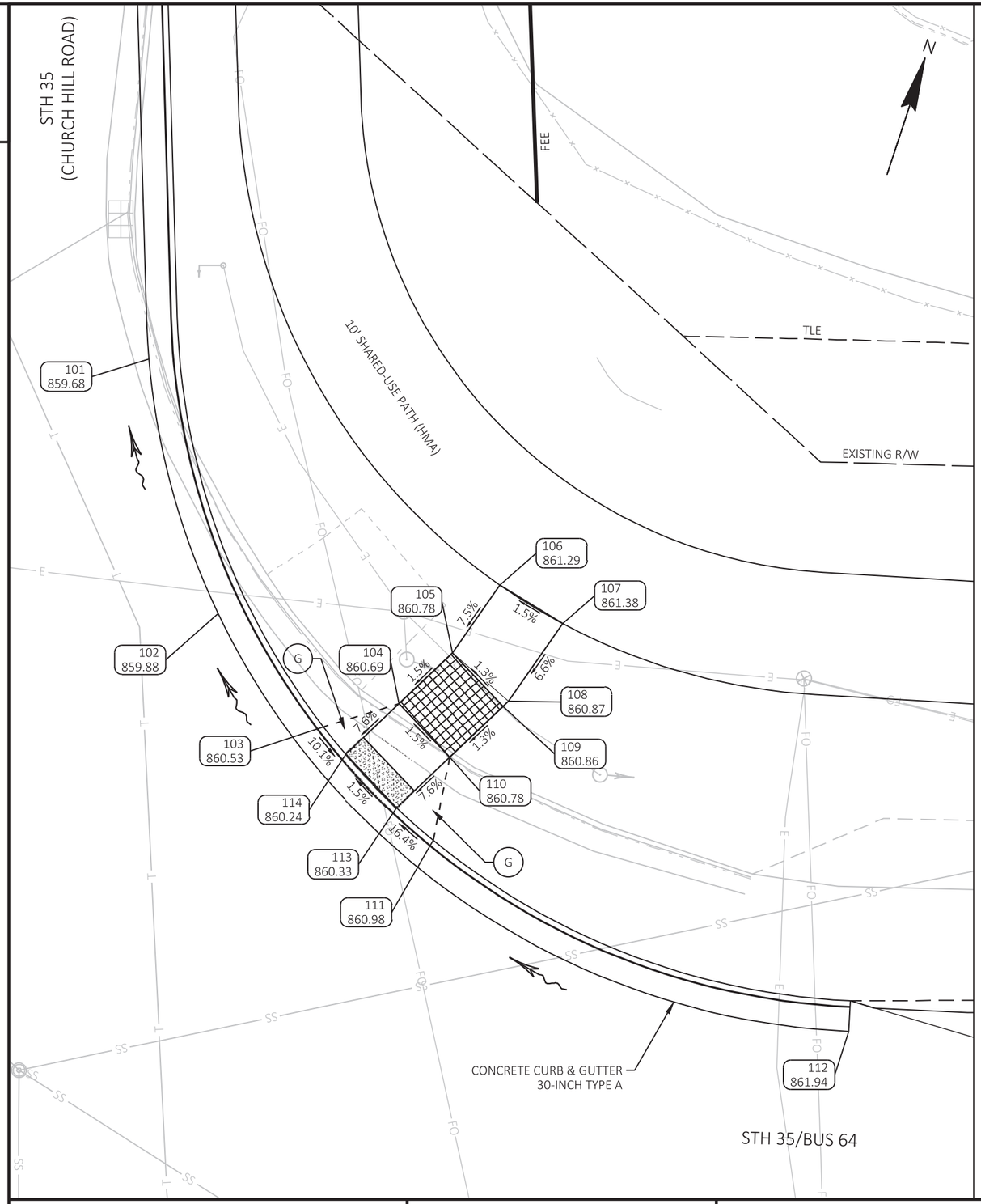
1. RADIUS DIMENSIONS ARE TO EDGE OF PAVEMENT.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	INTERSECTION DETAILS	SHEET 25	E

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CURB RAMP OVERVIEW	SHEET 26	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\021301_CR.DWG
LAYOUT NAME - Overview

PLOT DATE : 11/1/2022 6:58 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT



STH35-INT-NE						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
101	200+78.16	37.42' RT	859.68	397232.03	533041.32	FOC
102	200+56.45	43.37' RT	859.88	397214.17	533053.28	FOC
103	199+48.95	47.45' RT	860.53	397208.15	533064.38	BOC
104	199+42.99	49.48' RT	860.69	397211.91	533069.62	BOW
105	199+38.87	53.71' RT	860.78	397217.21	533072.43	BOW
106	199+35.27	59.34' RT	861.29	397223.69	533074.33	BOW
107	199+30.23	56.35' RT	861.38	397222.35	533080.19	BOW
108	199+34.33	49.90' RT	860.87	397214.94	533078.01	BOW
109	199+34.75	49.47' RT	860.86	397214.40	533077.73	BOW
110	199+38.88	45.22' RT	860.78	397209.10	533074.92	BOW
111	199+40.02	38.41' RT	860.98	397202.24	533075.80	BOC
112	199+06.22	24.00' RT	861.94	397198.27	533112.92	FOC
113	199+43.02	40.99' RT	860.33	397203.80	533072.11	BOC
114	199+47.14	45.25' RT	860.24	397206.61	533066.81	BOC

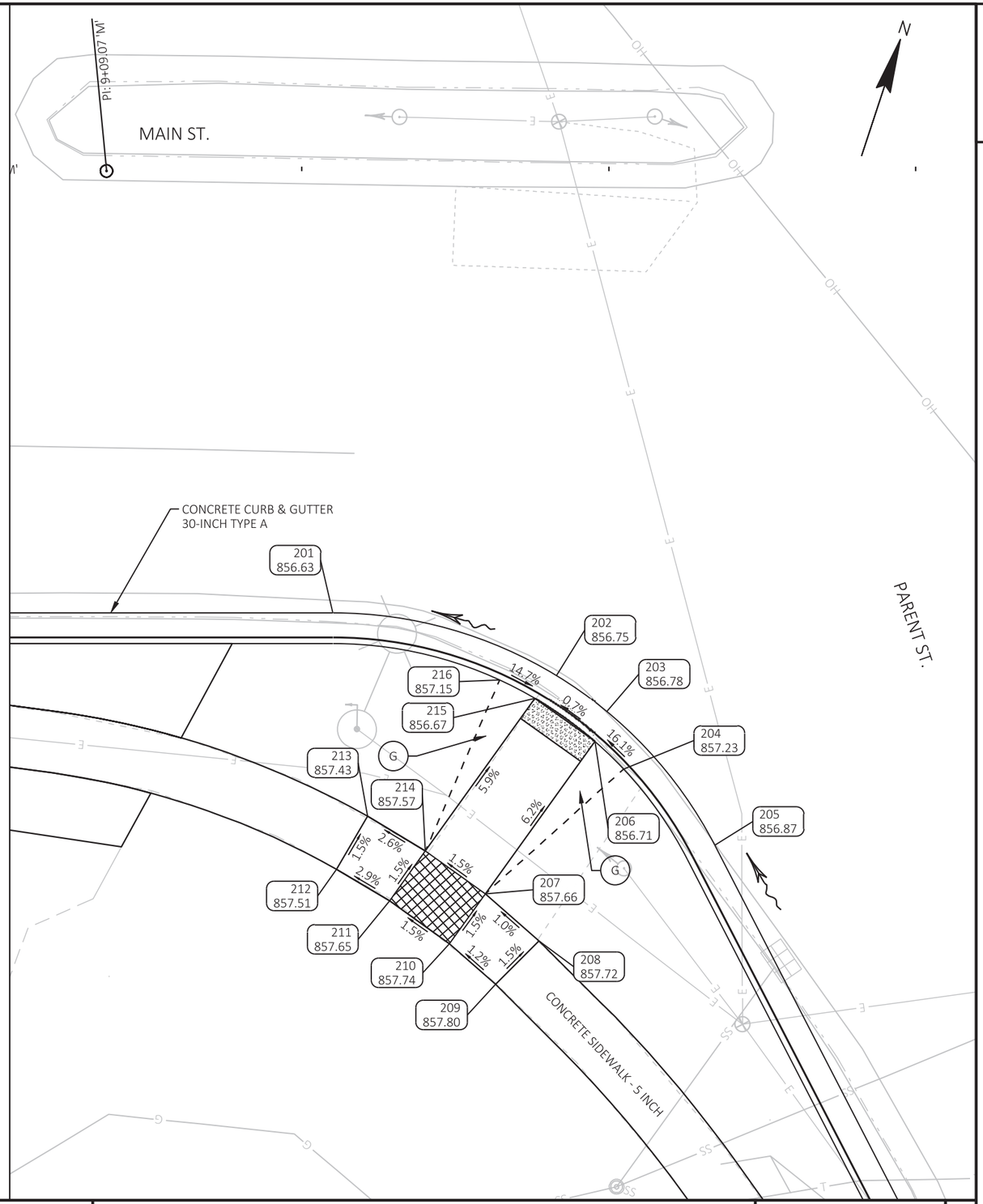
LEGEND:

- XXXX — SAWING ASPHALT/CONCRETE
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- LANDING AREA
- G — 6:1 GRADED FLARE
- XXXX / YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

STH35-INT-SW						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
201	9+27.53	36.00' RT	856.63	397089.70	532972.91	FOC
202	9+45.74	41.11' RT	856.75	397090.66	532991.80	FOC
203	9+49.86	44.05' RT	856.78	397089.19	532996.64	FOC
204	9+51.21	48.74' RT	857.23	397085.17	532999.41	BOC
205	9+58.63	54.95' RT	856.87	397081.65	533008.43	FOC
206	9+48.86	46.49' RT	856.71	397086.56	532996.47	BOC
207	9+39.93	58.90' RT	857.66	397071.95	532991.96	EOW
208	9+44.30	62.73' RT	857.72	397069.71	532997.32	EOW
209	9+40.77	66.27' RT	857.80	397065.23	532995.11	EOW
210	9+37.01	62.96' RT	857.74	397067.17	532990.49	EOW
211	9+32.14	59.46' RT	857.65	397068.94	532984.75	EOW
212	9+27.82	56.89' RT	857.51	397069.99	532979.85	EOW
213	9+30.33	52.56' RT	857.43	397074.89	532980.84	EOW
214	9+35.06	55.40' RT	857.57	397073.72	532986.23	EOW
215	9+43.99	42.98' RT	856.67	397088.33	532990.74	BOC
216	9+41.12	41.48' RT	857.15	397088.84	532987.54	BOC

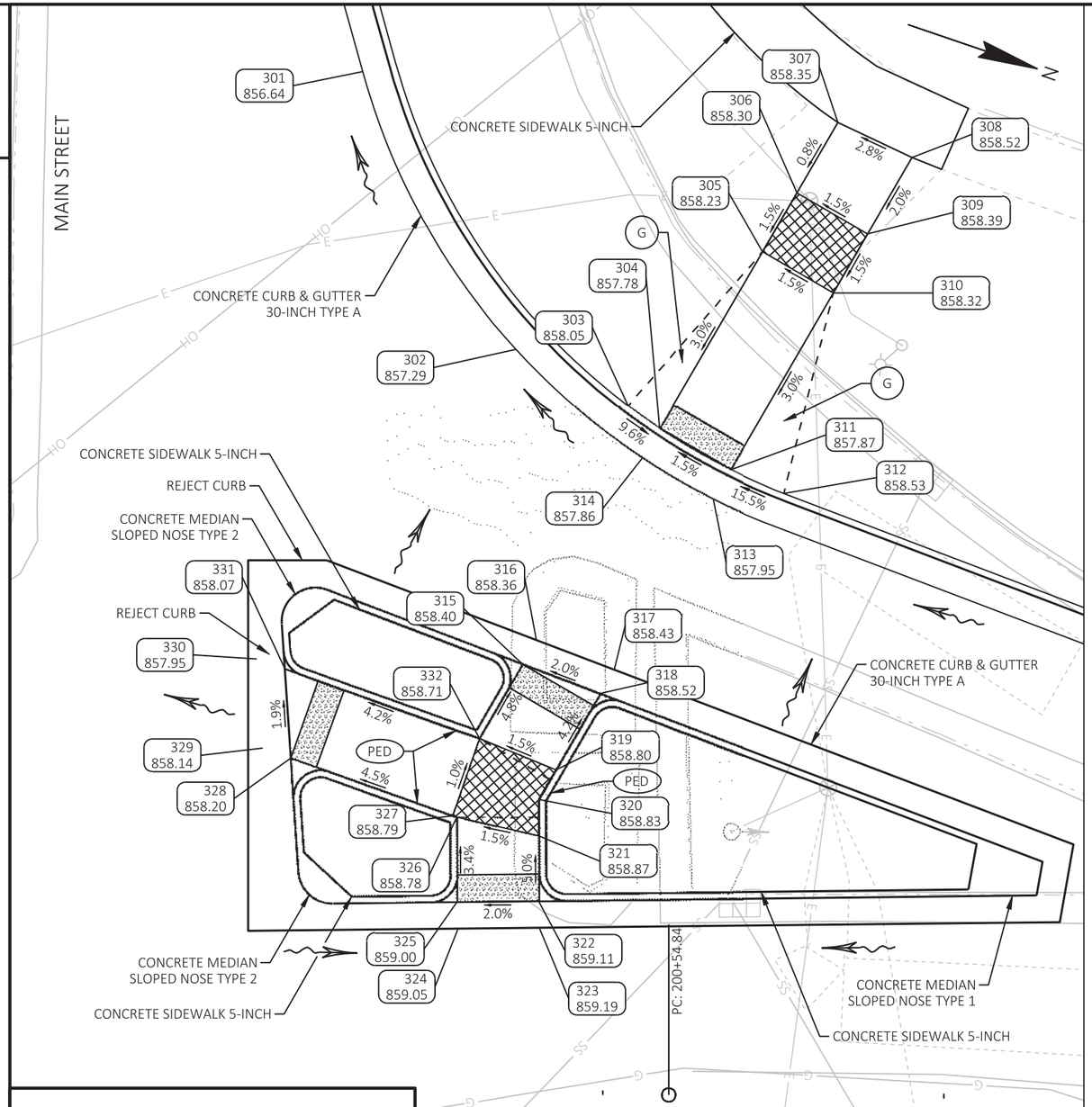


LEGEND:

- XXXX — SAWING ASPHALT/CONCRETE
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- LANDING AREA
- (G) — 6:1 GRADED FLARE
- XXXX / YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.



STH35-INT-NW						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
301	200+32.41	75.03' LT	856.64	397153.73	532948.69	FOC
302	200+43.63	54.68' LT	857.29	397170.85	532964.40	FOC
303	200+51.86	50.52' LT	858.05	397179.98	532965.72	BOC
304	200+54.18	48.86' LT	857.78	397182.70	532966.55	BOC
305	200+61.25	61.86' LT	858.23	397185.72	532951.86	EOW
306	200+63.55	66.20' LT	858.30	397186.73	532946.96	EOW
307	200+66.26	71.40' LT	858.35	397187.93	532941.11	EOW
308	200+71.32	68.92' LT	858.52	397193.91	532941.81	EOW
309	200+68.40	63.25' LT	858.39	397192.60	532948.17	EOW
310	200+66.11	58.89' LT	858.32	397191.60	532953.07	EOW
311	200+59.13	45.86' LT	857.87	397188.58	532967.76	BOC
312	200+62.85	44.15' LT	858.53	397192.84	532968.16	BOC
313	200+57.94	43.69' LT	857.95	397188.08	532970.21	FOC
314	200+52.92	46.70' LT	857.86	397182.20	532969.01	FOC

STH35-ISLAND						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
315	200+44.13	31.59' LT	858.40	397178.69	532986.13	EOW
316	200+45.15	33.34' LT	858.36	397179.09	532984.14	FOC
317	200+50.84	31.18' LT	858.43	397185.17	532984.38	FOC
318	200+49.82	29.43' LT	858.52	397184.76	532986.36	EOW
319	200+46.56	23.83' LT	858.80	397183.46	532992.70	EOW
320	200+45.31	21.68' LT	858.83	397182.96	532995.15	EOW
321	200+45.31	19.02' LT	858.87	397183.81	532997.67	EOW
322	200+45.32	14.22' LT	859.11	397185.34	533002.21	EOW
323	200+45.36	12.22' LT	859.19	397186.02	533004.09	FOC
324	200+39.36	12.16' LT	859.05	397180.36	533006.07	FOC
325	200+39.32	14.15' LT	859.00	397179.68	533004.19	EOW
326	200+39.32	20.36' LT	858.78	397177.70	532998.30	EOW
327	200+39.00	20.48' LT	858.79	397177.36	532998.30	EOW
328	200+27.14	24.71' LT	858.20	397164.77	532998.06	EOW
329	200+25.08	25.45' LT	858.14	397162.59	532998.02	FOC
330	200+24.64	31.98' LT	857.95	397160.09	532991.97	FOC
331	200+26.70	31.24' LT	858.07	397162.27	532992.01	EOW
332	200+40.97	26.15' LT	858.71	397177.42	532992.30	EOW

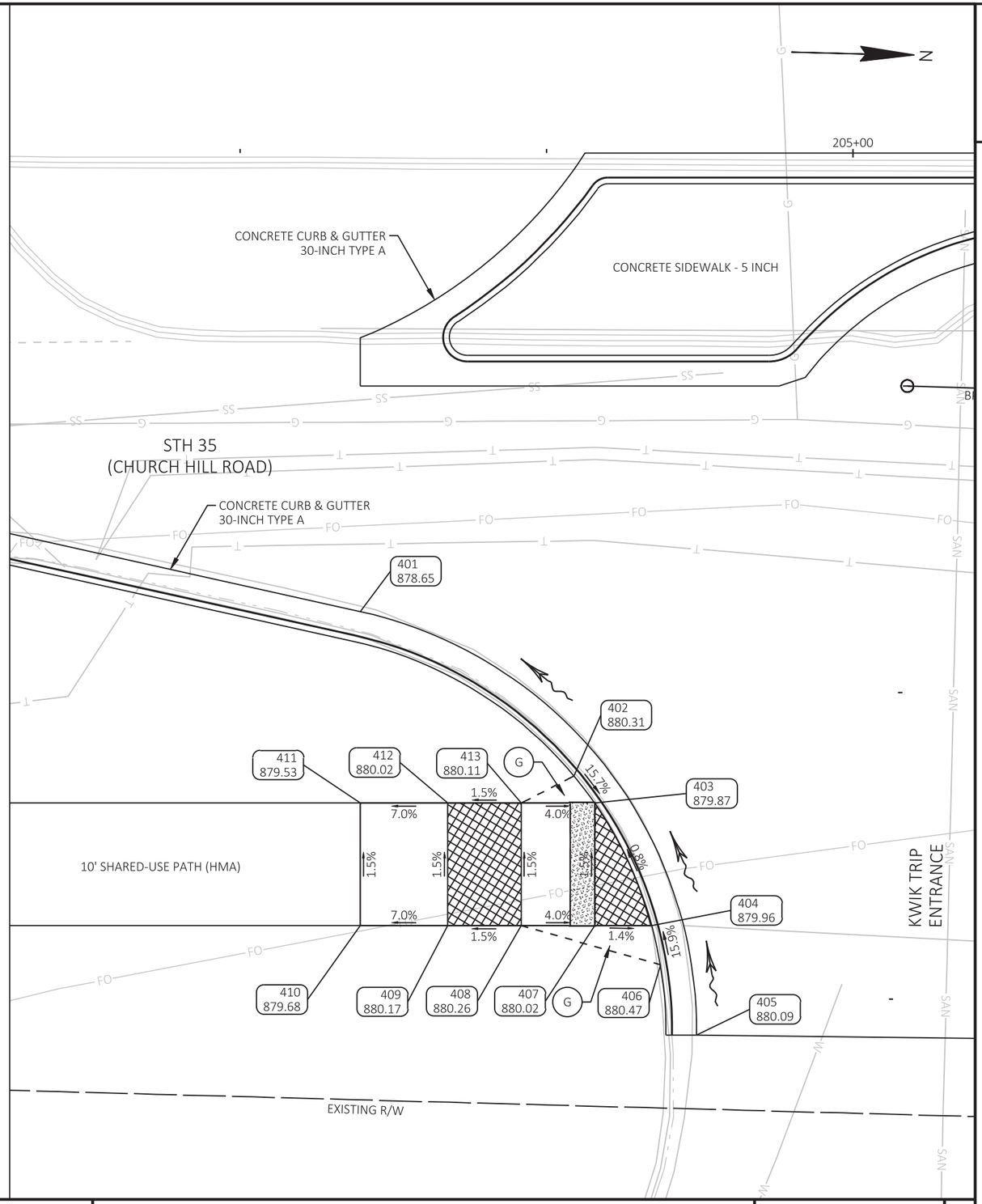
LEGEND:

- SAWING ASPHALT/CONCRETE
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- LANDING AREA
- 6:1 GRADED FLARE
- CONCRETE CURB PEDESTRIAN
- POINT NUMBER & ELEVATION

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

KWIK TRIP ENTRANCE-SE						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
401	10+19.72	44.04' RT	878.65	397599.91	533003.48	FOC
402	10+32.59	26.22' RT	880.31	397617.61	533016.52	BOC
403	10+34.75	24.47' RT	879.87	397619.34	533018.69	BOC
404	10+44.61	19.50' RT	879.96	397624.22	533028.59	BOC
405	10+53.43	15.59' RT	880.09	397628.05	533037.45	FOC
406	10+47.76	18.71' RT	880.47	397624.98	533031.75	BOC
407	10+44.75	24.17' RT	880.02	397619.55	533028.69	EOW
408	10+44.93	30.17' RT	880.26	397613.55	533028.82	EOW
409	10+45.11	36.16' RT	880.17	397607.55	533028.94	EOW
410	10+45.33	43.26' RT	879.68	397600.45	533029.09	EOW
411	10+35.33	43.57' RT	879.53	397600.24	533019.10	EOW
412	10+35.12	36.46' RT	880.02	397607.34	533018.95	EOW
413	10+34.93	30.47' RT	880.11	397613.34	533018.82	EOW

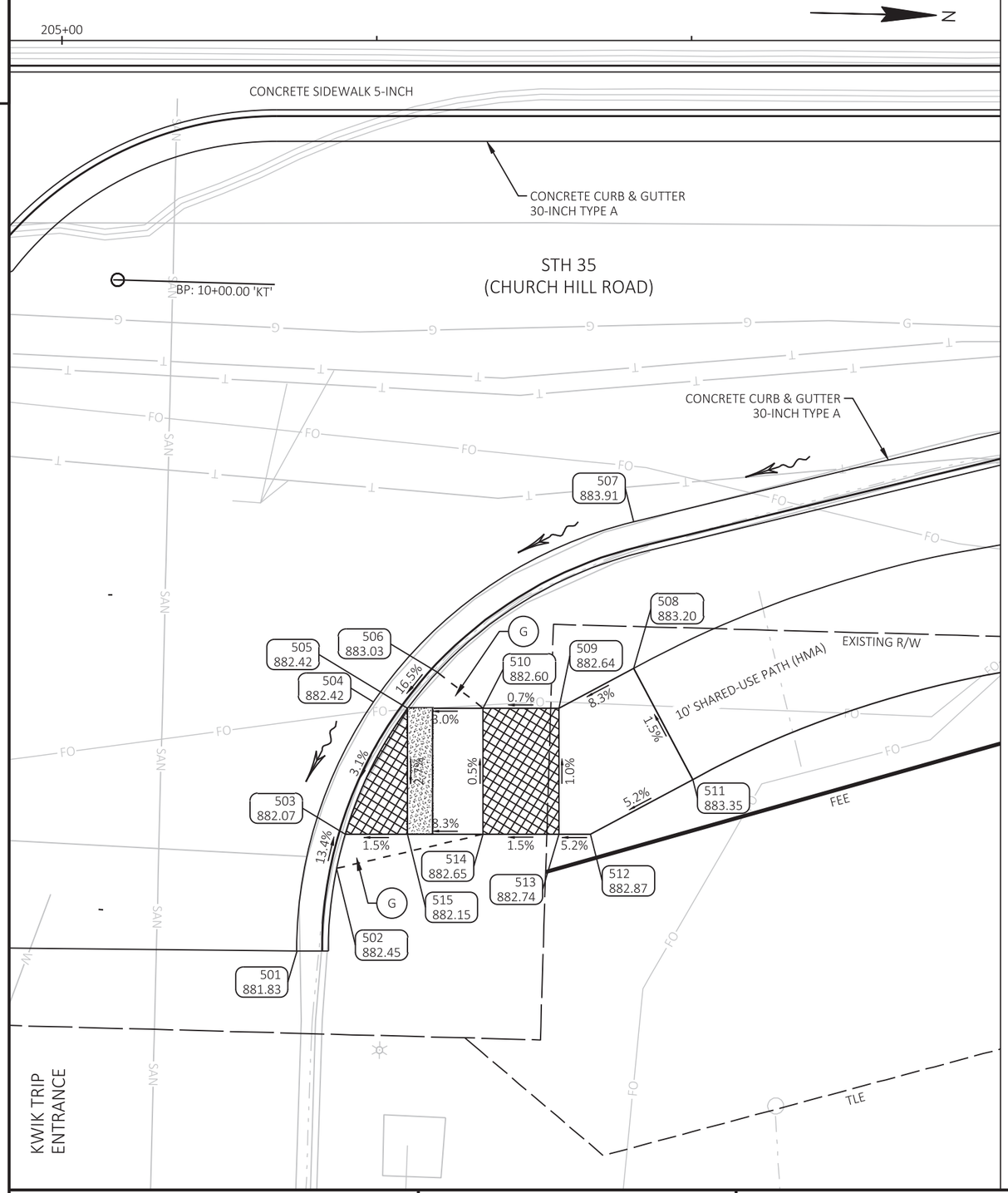


LEGEND:

- XXXX — SAWING ASPHALT/CONCRETE
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- LANDING AREA
- (G) — 6:1 GRADED FLARE
- XXXX / YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.



KWIK TRIP ENTRANCE-NE						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
501	10+52.82	15.83' LT	881.83	397659.47	533037.13	FOC
502	10+46.16	18.79' LT	882.45	397662.49	533030.49	BOC
503	10+43.44	19.39' LT	882.07	397663.11	533027.77	BOC
504	10+32.87	21.32' LT	882.42	397665.14	533017.23	FOC
505	10+33.29	24.04' LT	882.42	397667.86	533017.67	BOC
506	10+30.36	26.31' LT	883.03	397670.16	533014.76	EOW
507	10+17.97	41.52' LT	883.91	397685.48	533002.51	FOC
508	10+29.58	41.87' LT	883.20	397685.72	533014.13	EOW
509	10+32.93	36.04' LT	882.64	397679.86	533017.42	EOW
510	10+33.11	30.04' LT	882.60	397673.86	533017.54	EOW
511	10+38.26	46.85' LT	883.35	397690.62	533022.84	EOW
512	10+42.85	38.84' LT	882.87	397682.57	533027.36	EOW
513	10+42.92	36.34' LT	882.74	397680.07	533027.42	EOW
514	10+43.10	30.34' LT	882.65	397674.07	533027.54	EOW
515	10+43.29	24.34' LT	882.15	397668.07	533027.67	EOW

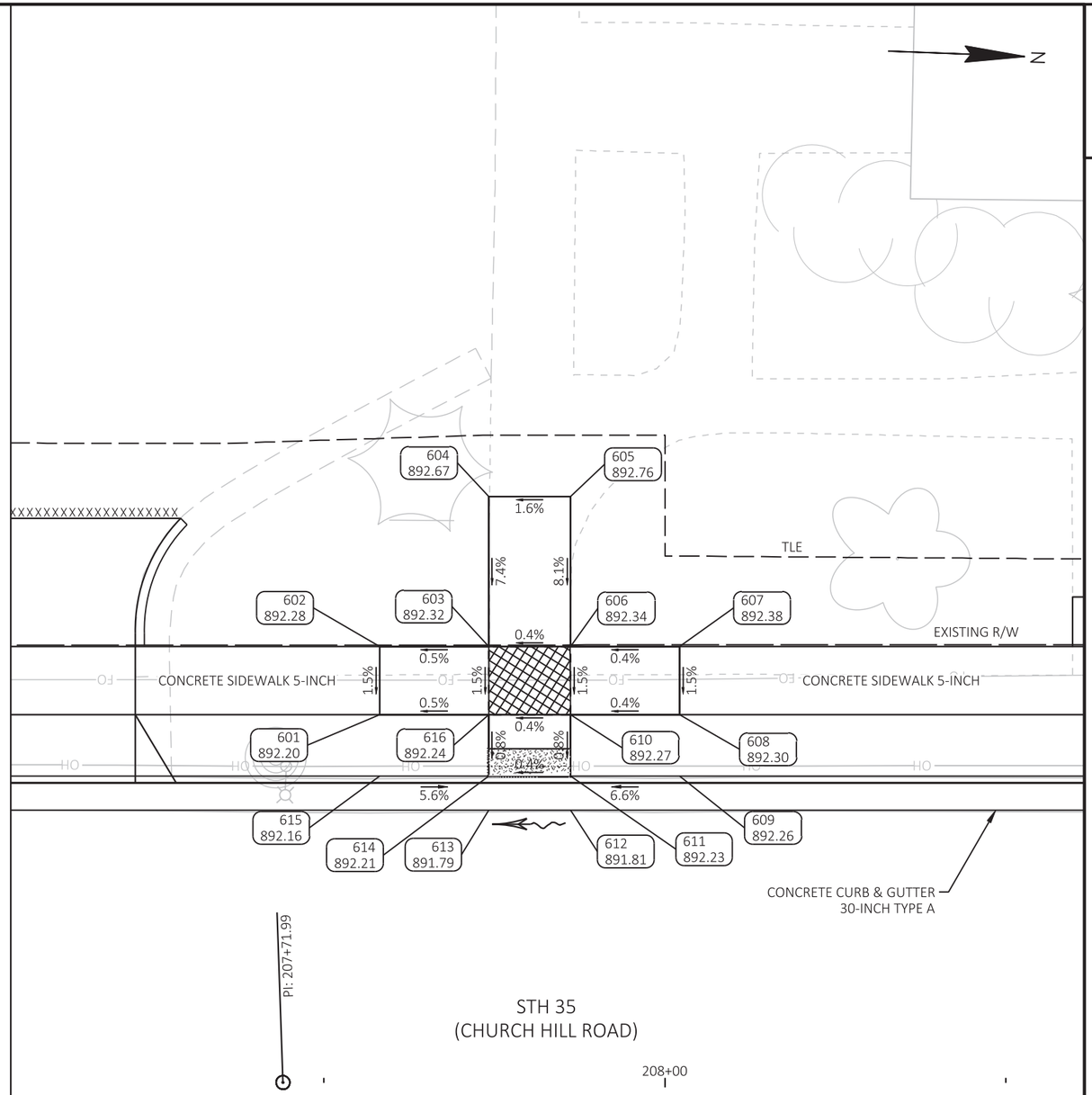
LEGEND:

- XXXX — SAWING ASPHALT/CONCRETE
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- LANDING AREA
- G — 6:1 GRADED FLARE
- XXXX / YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

STH35-MIDBLOCK-W						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
601	207+79.08	27.00' LT	892.20	397917.10	532926.69	EOW
602	207+79.08	32.00' LT	892.28	397916.92	532921.69	EOW
603	207+87.08	32.00' LT	892.32	397924.92	532921.41	EOW
604	207+87.08	43.00' LT	892.67	397924.53	532910.41	EOW
605	207+93.08	43.00' LT	892.76	397930.52	532910.20	EOW
606	207+93.08	32.00' LT	892.34	397930.91	532921.19	EOW
607	208+01.08	32.00' LT	892.38	397938.91	532920.91	EOW
608	208+01.08	27.00' LT	892.30	397939.09	532925.91	EOW
609	208+01.08	22.50' LT	892.26	397939.25	532930.40	BOC
610	207+93.08	27.00' LT	892.27	397931.09	532926.19	EOW
611	207+93.08	22.50' LT	892.23	397931.25	532930.69	BOC
612	207+93.08	20.00' LT	891.81	397931.34	532933.19	FOC
613	207+87.08	20.00' LT	891.79	397925.34	532933.40	FOC
614	207+87.08	22.50' LT	892.21	397925.25	532930.90	BOC
615	207+79.08	22.50' LT	892.16	397917.26	532931.18	BOC
616	207+87.08	27.00' LT	892.24	397925.09	532926.40	EOW

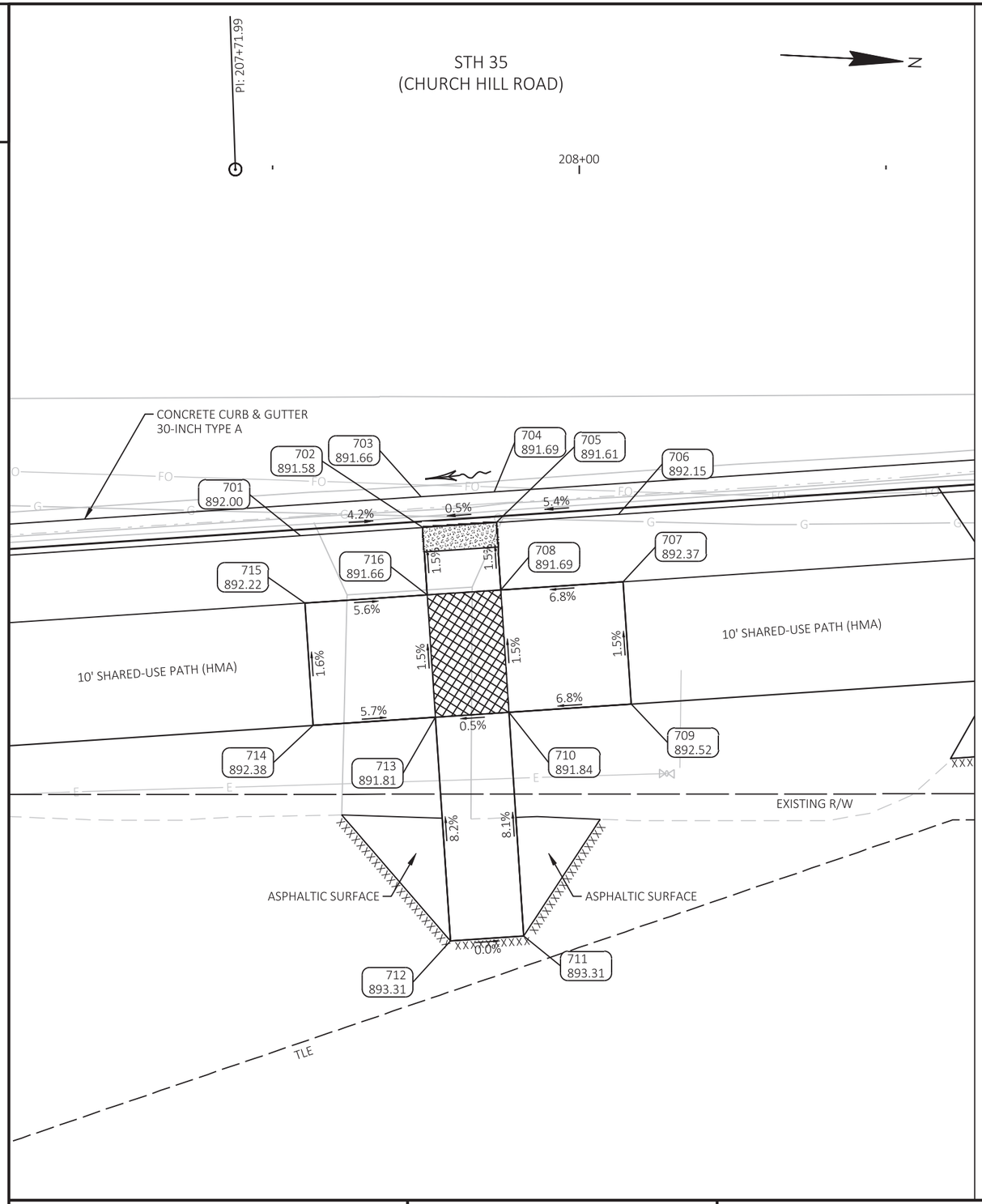


LEGEND:

- SAWING ASPHALT/CONCRETE
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- LANDING AREA
- XXXX / YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.



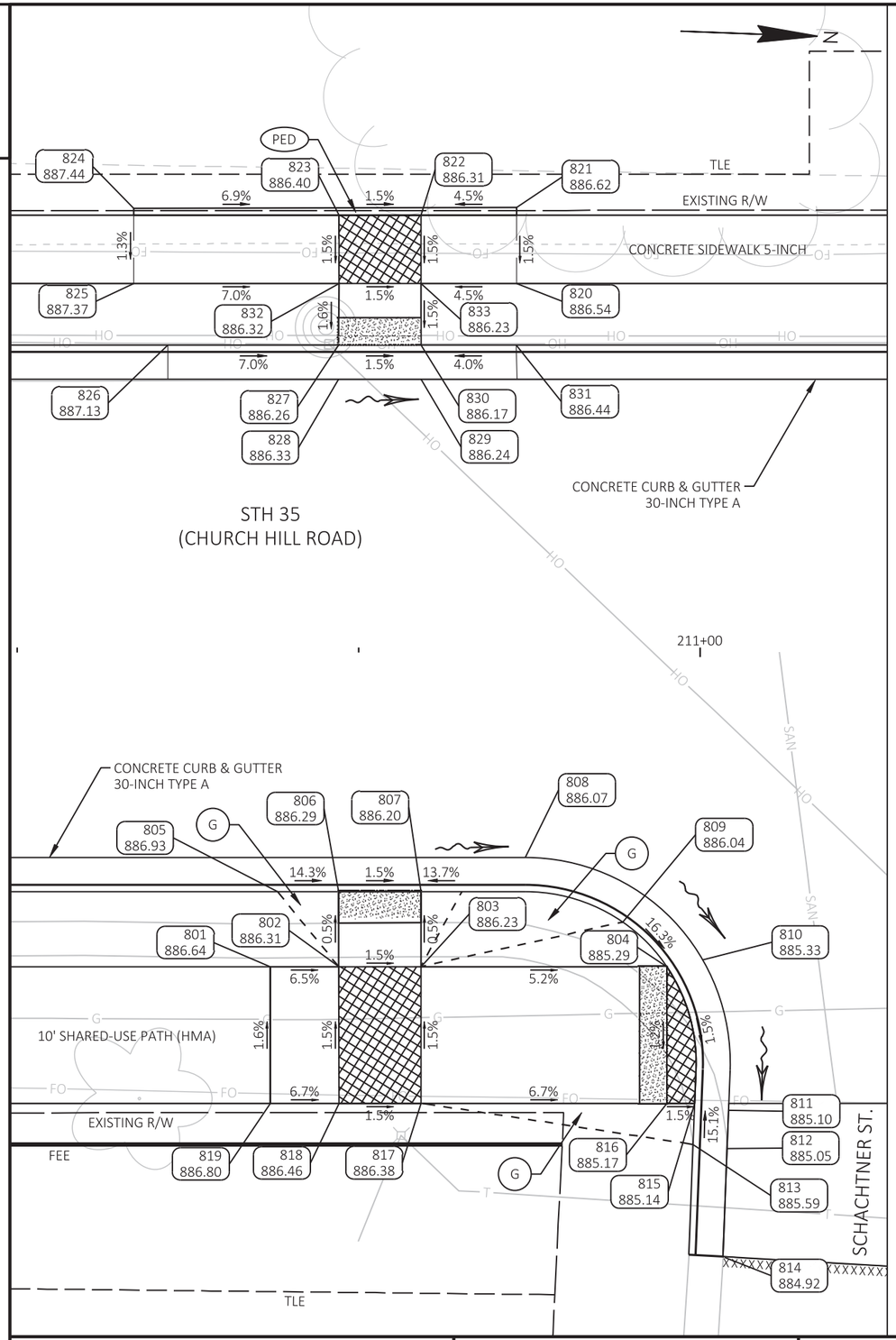
STH35-MIDBLOCK-E						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
701	207+77.28	29.83' RT	892.00	397917.32	532983.54	BOC
702	207+87.26	29.16' RT	891.58	397927.27	532982.52	BOC
703	207+87.10	26.67' RT	891.66	397927.01	532980.04	FOC
704	207+93.08	26.27' RT	891.69	397932.98	532979.43	FOC
705	207+93.25	28.76' RT	891.61	397933.24	532981.91	BOC
706	208+03.23	28.10' RT	892.15	397943.19	532980.90	BOC
707	208+03.59	33.59' RT	892.37	397943.75	532986.37	EOW
708	207+93.61	34.25' RT	891.69	397933.80	532987.39	EOW
709	208+04.26	43.57' RT	892.52	397944.76	532996.31	EOW
710	207+94.28	44.23' RT	891.84	397934.82	532997.33	EOW
711	207+95.49	62.46' RT	893.31	397936.68	533015.51	EOW
712	207+89.51	62.86' RT	893.31	397930.71	533016.12	EOW
713	207+88.29	44.63' RT	891.81	397928.85	532997.94	EOW
714	207+78.31	45.29' RT	892.38	397918.90	532998.96	EOW
715	207+77.65	35.32' RT	892.22	397917.88	532989.01	EOW
716	207+87.63	34.65' RT	891.66	397927.83	532988.00	EOW

LEGEND:

- XXXX — SAWING ASPHALT/CONCRETE
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- LANDING AREA
- XXXX / YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.



SCHACHTNER-SE							SCHACHTNER-SW						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION	POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
801	210+68.56	23.00' RT	886.64	398208.17	532966.38	EOW	820	210+86.56	27.00' LT	886.54	398224.38	532915.77	EOW
802	210+73.56	23.00' RT	886.31	398213.17	532966.20	EOW	821	210+86.56	32.55' LT	886.62	398224.19	532910.22	EOW
803	210+79.56	23.00' RT	886.23	398219.16	532965.99	EOW	822	210+79.56	32.00' LT	886.31	398217.21	532911.02	EOW
804	210+97.56	23.00' RT	885.29	398237.15	532965.35	BOC	823	210+73.56	32.00' LT	886.40	398211.22	532911.23	EOW
805	210+69.06	17.50' RT	886.93	398208.48	532960.86	BOC	824	210+58.56	32.50' LT	887.44	398196.20	532911.27	EOW
806	210+73.56	17.50' RT	886.29	398212.97	532960.70	BOC	825	210+58.56	27.00' LT	887.37	398196.40	532916.76	EOW
807	210+79.56	17.50' RT	886.20	398218.97	532960.49	BOC	826	210+61.06	22.50' LT	887.13	398199.06	532921.17	BOC
808	210+87.20	15.00' RT	886.07	398226.52	532957.72	FOC	827	210+73.54	22.50' LT	886.26	398211.54	532920.73	BOC
809	210+94.34	19.73' RT	886.04	398233.81	532962.20	BOC	828	210+73.54	20.00' LT	886.33	398211.62	532923.23	FOC
810	211+00.16	22.50' RT	885.33	398239.74	532964.76	FOC	829	210+79.56	20.00' LT	886.24	398217.64	532923.01	FOC
811	211+02.08	33.50' RT	885.10	398242.04	532975.68	FOC	830	210+79.56	22.50' LT	886.17	398217.55	532920.52	BOC
812	211+01.97	36.30' RT	885.05	398242.03	532978.48	FOC	831	210+86.55	22.50' LT	886.44	398224.53	532920.27	BOC
813	210+99.49	36.00' RT	885.59	398239.54	532978.27	BOC	832	210+73.56	27.00' LT	886.32	398211.39	532916.23	EOW
814	211+01.68	44.22' RT	884.92	398242.02	532986.40	FOC	833	210+79.56	27.00' LT	886.23	398217.39	532916.02	EOW
815	210+99.60	33.00' RT	885.14	398239.55	532975.27	BOC							
816	210+97.56	33.00' RT	885.17	398237.51	532975.34	EOW							
817	210+79.56	33.00' RT	886.38	398219.52	532975.98	EOW							
818	210+73.56	33.00' RT	886.46	398213.52	532976.19	EOW							
819	210+68.56	33.00' RT	886.80	398208.53	532976.37	EOW							

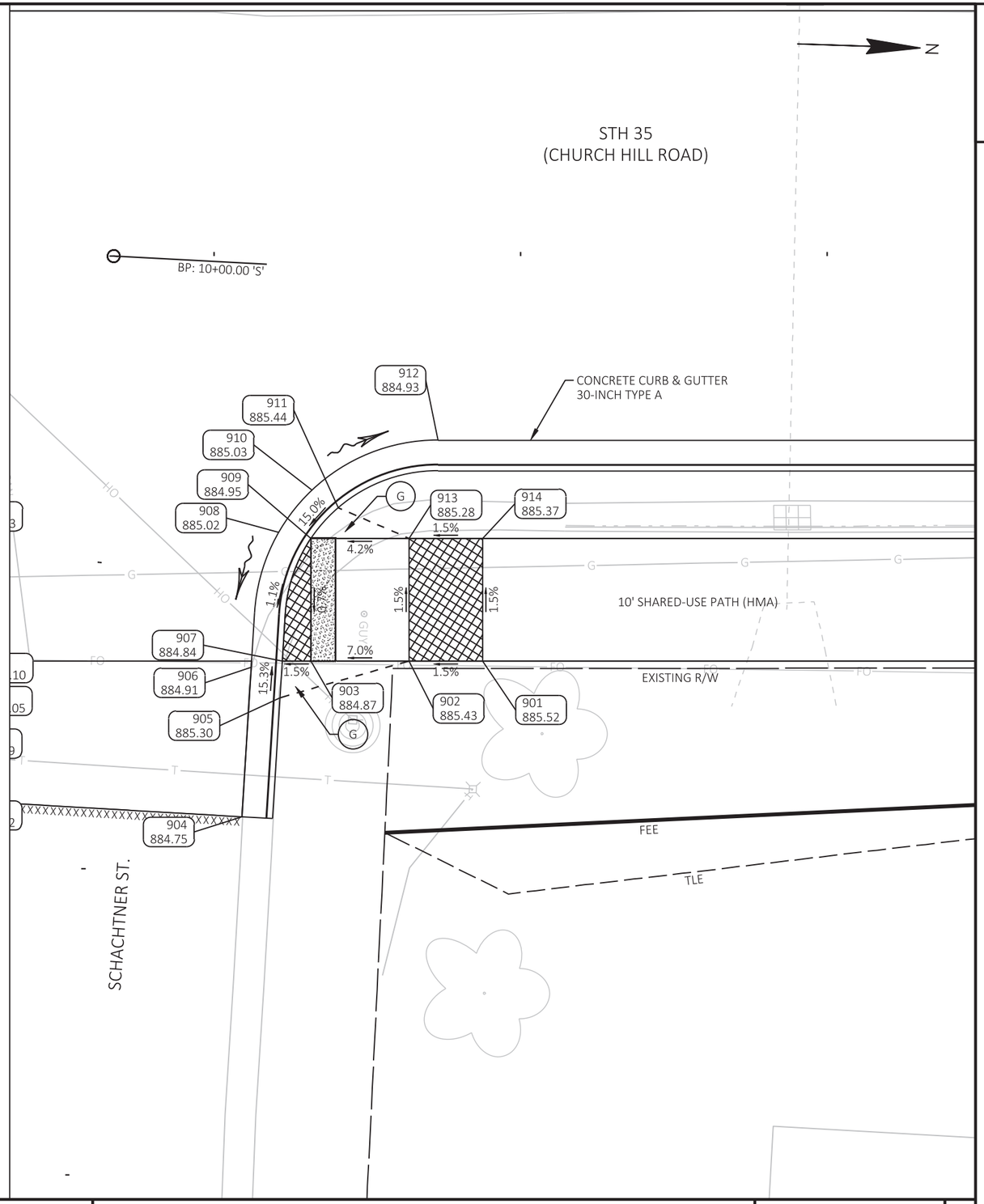
LEGEND:

- XXXX — SAWING ASPHALT/CONCRETE
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- LANDING AREA
- G — 6:1 GRADED FLARE
- PED — CONCRETE CURB PEDESTRIAN
- XXXX / YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

SCHACHTNER-NE						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
901	211+46.93	33.00' RT	885.52	398286.84	532973.59	EOW
902	211+40.93	33.00' RT	885.43	398280.85	532973.80	EOW
903	211+32.93	33.00' RT	884.87	398272.85	532974.09	EOW
904	211+27.28	45.71' RT	884.75	398267.66	532986.99	FOC
905	211+30.39	36.00' RT	885.30	398270.42	532977.17	BOC
906	211+28.04	33.50' RT	884.91	398267.98	532974.76	FOC
907	211+30.57	33.00' RT	884.84	398270.50	532974.17	BOC
908	211+30.29	22.50' RT	885.02	398269.85	532963.69	FOC
909	211+32.93	23.00' RT	884.95	398272.50	532964.09	BOC
910	211+33.01	19.07' RT	885.03	398272.44	532960.16	FOC
911	211+35.14	20.52' RT	885.44	398274.62	532961.53	BOC
912	211+43.28	15.00' RT	884.93	398282.56	532955.73	FOC
913	211+40.93	23.00' RT	885.28	398280.49	532963.81	EOW
914	211+46.93	23.00' RT	885.37	398286.49	532963.59	EOW



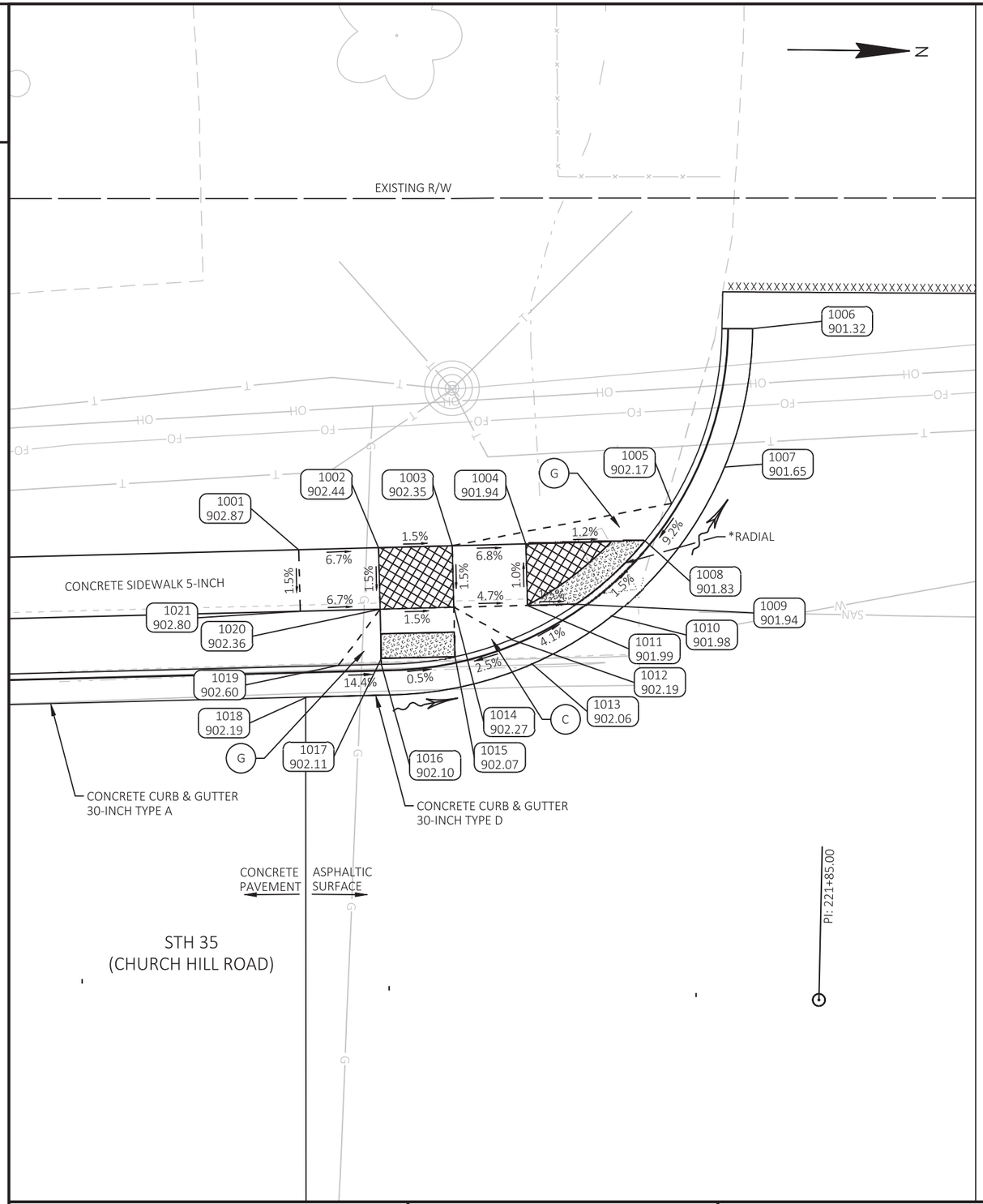
LEGEND:

- SAWING ASPHALT/CONCRETE
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- LANDING AREA
- (G) 6:1 GRADED FLARE
- XXXX / YYY.YY POINT NUMBER & ELEVATION

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CURB RAMP DETAILS - 9	SHEET 35	E



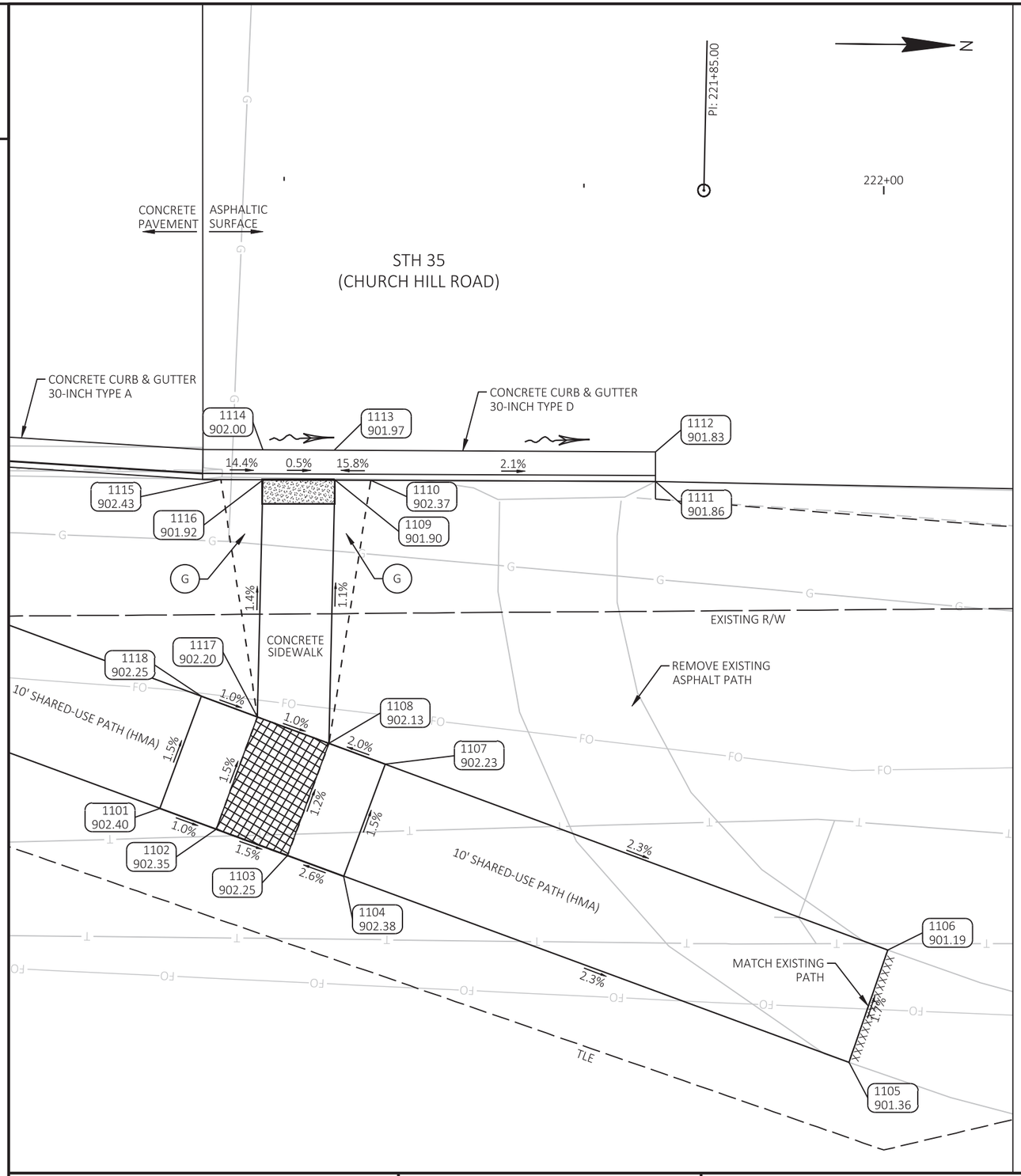
CAMP-SW						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1001	221+41.84	35.68' LT	902.87	399280.24	532873.25	EOW
1002	221+48.33	35.99' LT	902.44	399286.74	532873.02	EOW
1003	221+54.33	36.28' LT	902.35	399292.74	532872.81	EOW
1004	221+60.32	36.57' LT	901.94	399298.73	532872.59	EOW
1005	221+72.12	40.14' LT	902.17	399310.57	532869.17	BOC
1006	221+78.37	54.48' LT	901.32	399317.01	532854.90	FOC
1007	221+76.36	43.19' LT	901.65	399314.85	532866.17	FOC
1008	221+70.01	37.03' LT	901.83	399308.42	532872.25	BOC
1009	221+64.54	31.76' LT	901.94	399302.89	532877.45	BOC
1010	221+67.34	30.87' LT	901.98	399305.68	532878.38	FOC
1011	221+60.56	31.57' LT	901.99	399298.91	532877.59	BOC
1012	221+59.31	28.78' LT	902.19	399297.62	532880.37	BOC
1013	221+60.95	26.86' LT	902.06	399299.24	532882.31	FOC
1014	221+54.57	31.29' LT	902.27	399292.91	532877.80	EOW
1015	221+54.76	27.27' LT	902.07	399293.06	532881.82	BOC
1016	221+48.79	26.50' LT	902.10	399287.08	532882.51	BOC
1017	221+48.77	27.00' LT	902.11	399287.06	532882.02	EOW
1018	221+42.73	23.71' LT	902.19	399280.98	532885.23	FOC
1019	221+45.30	26.33' LT	902.60	399283.58	532882.64	BOC
1020	221+48.58	31.00' LT	902.36	399286.92	532878.02	EOW
1021	221+42.08	30.68' LT	902.80	399280.42	532878.25	EOW

LEGEND:

- XXXX — SAWING ASPHALT/CONCRETE
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- LANDING AREA
- G — 10:1 CONCRETE FLARE
- C — 6:1 GRADED FLARE
- XXXX / YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.



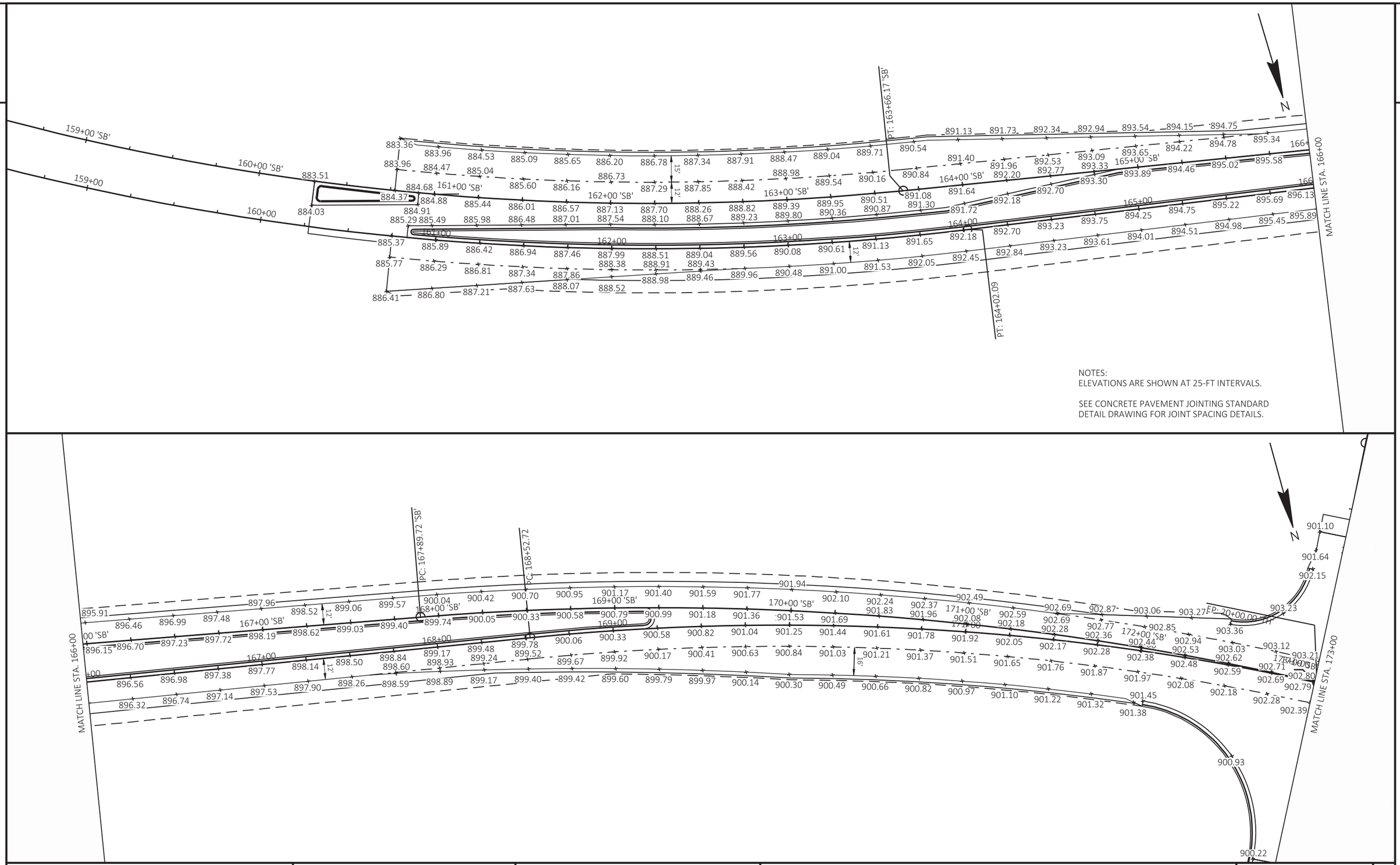
CAMP-SE						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1101	221+40.82	52.54' RT	902.40	399278.11	532961.45	EOW
1102	221+45.54	54.16' RT	902.35	399282.82	532963.13	EOW
1103	221+51.55	56.23' RT	902.25	399288.80	532965.27	EOW
1104	221+56.27	57.85' RT	902.38	399293.50	532966.95	EOW
1105	221+97.10	72.69' RT	901.36	399335.77	532982.03	EOW
1106	222+00.34	63.32' RT	901.19	399338.92	532972.63	EOW
1107	221+59.52	48.42' RT	902.23	399296.87	532957.56	EOW
1108	221+54.79	46.79' RT	902.13	399292.16	532955.87	EOW
1109	221+54.79	24.83' RT	901.90	399292.43	532933.92	BOC
1110	221+57.79	24.78' RT	902.37	399295.44	532933.90	BOC
1111	221+81.52	24.34' RT	901.86	399319.17	532933.76	BOC
1112	221+81.48	21.88' RT	901.83	399319.16	532931.30	BOC
1113	221+54.72	22.33' RT	901.97	399292.39	532931.42	FOC
1114	221+48.75	22.44' RT	902.00	399286.43	532931.45	FOC
1115	221+45.29	25.01' RT	902.43	399282.93	532933.97	BOC
1116	221+48.79	24.94' RT	901.92	399286.43	532933.95	BOC
1117	221+48.79	44.72' RT	902.20	399286.18	532953.73	EOW
1118	221+44.06	43.10' RT	902.25	399281.48	532952.05	EOW

LEGEND:

- XXXX — SAWING ASPHALT/CONCRETE
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- LANDING AREA
- G — 6:1 GRADED FLARE
- XXXX / YYY.YY — POINT NUMBER & ELEVATION

NOTES:

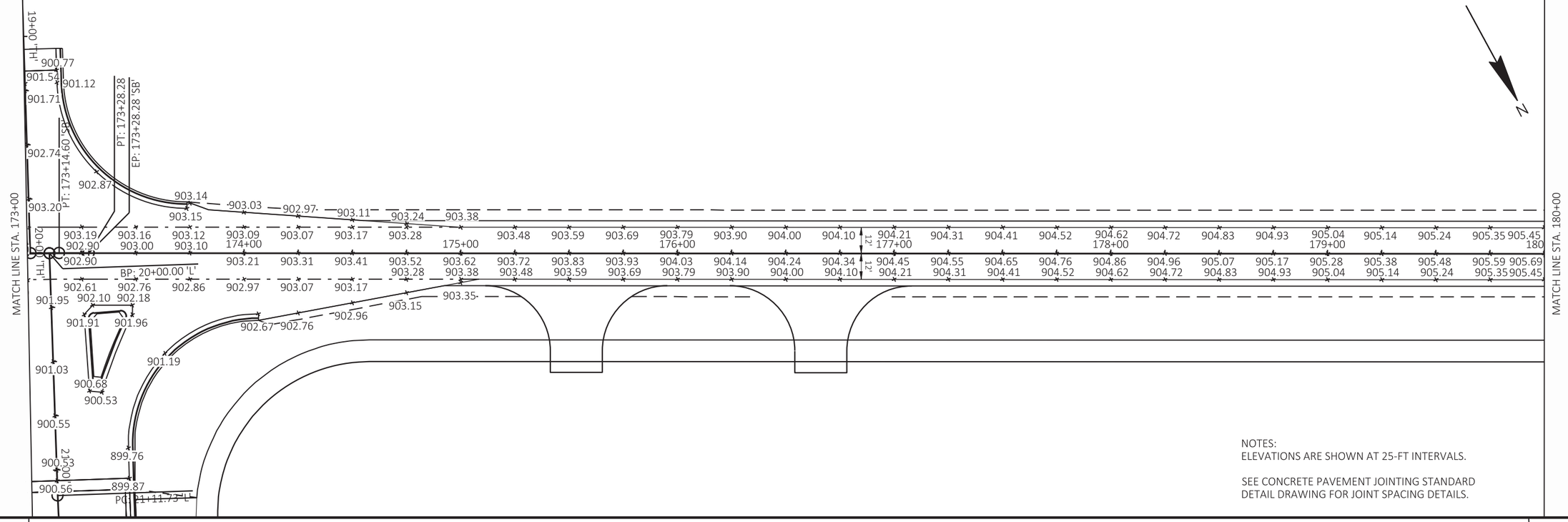
1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.



NOTES:
ELEVATIONS ARE SHOWN AT 25-FT INTERVALS.

SEE CONCRETE PAVEMENT JOINTING STANDARD DETAIL DRAWING FOR JOINT SPACING DETAILS.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PAVING DETAILS	SHEET 38	E

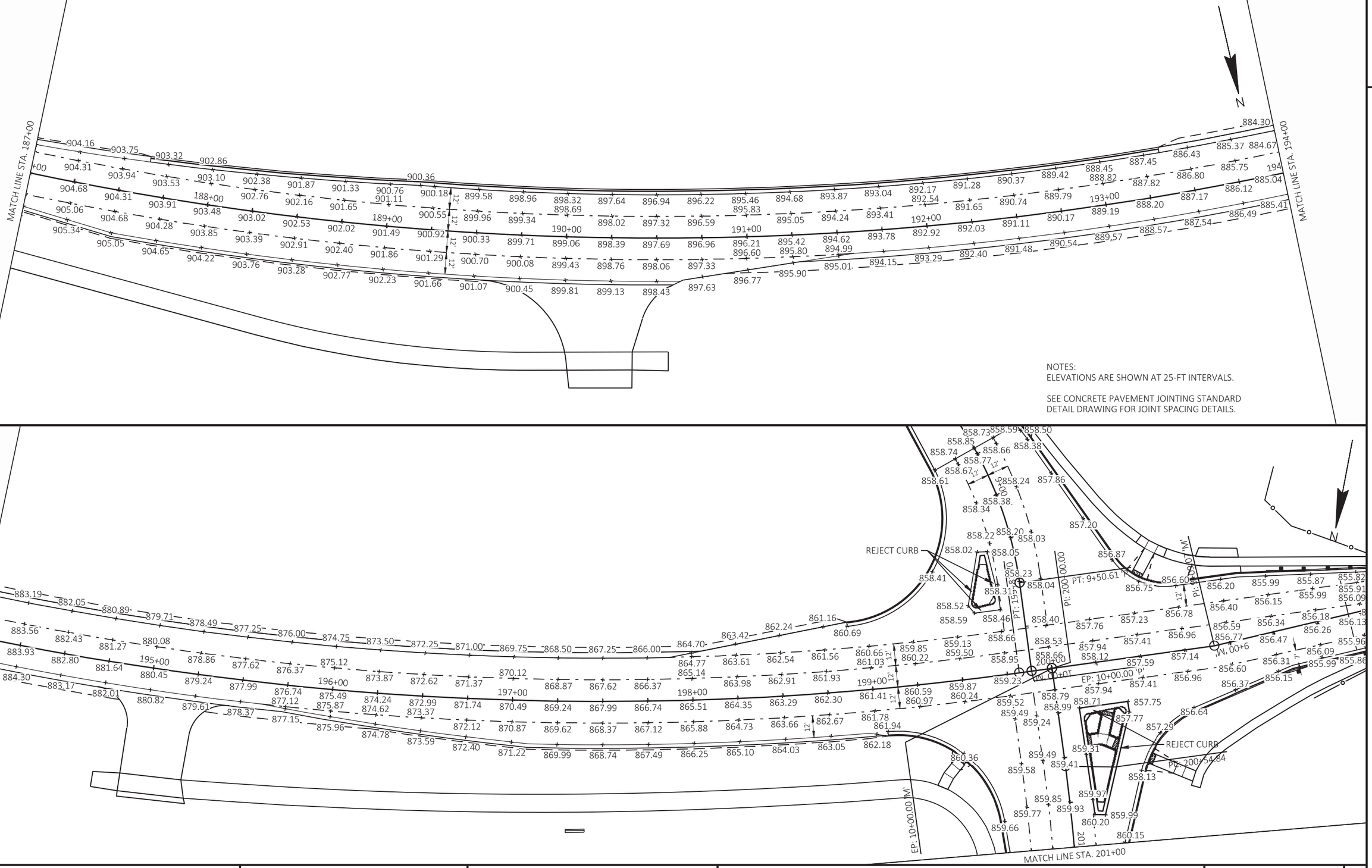


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PAVING DETAILS	SHEET 39	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\021401_JD.DWG
LAYOUT NAME - 021402

PLOT DATE : 10/28/2022 12:32 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

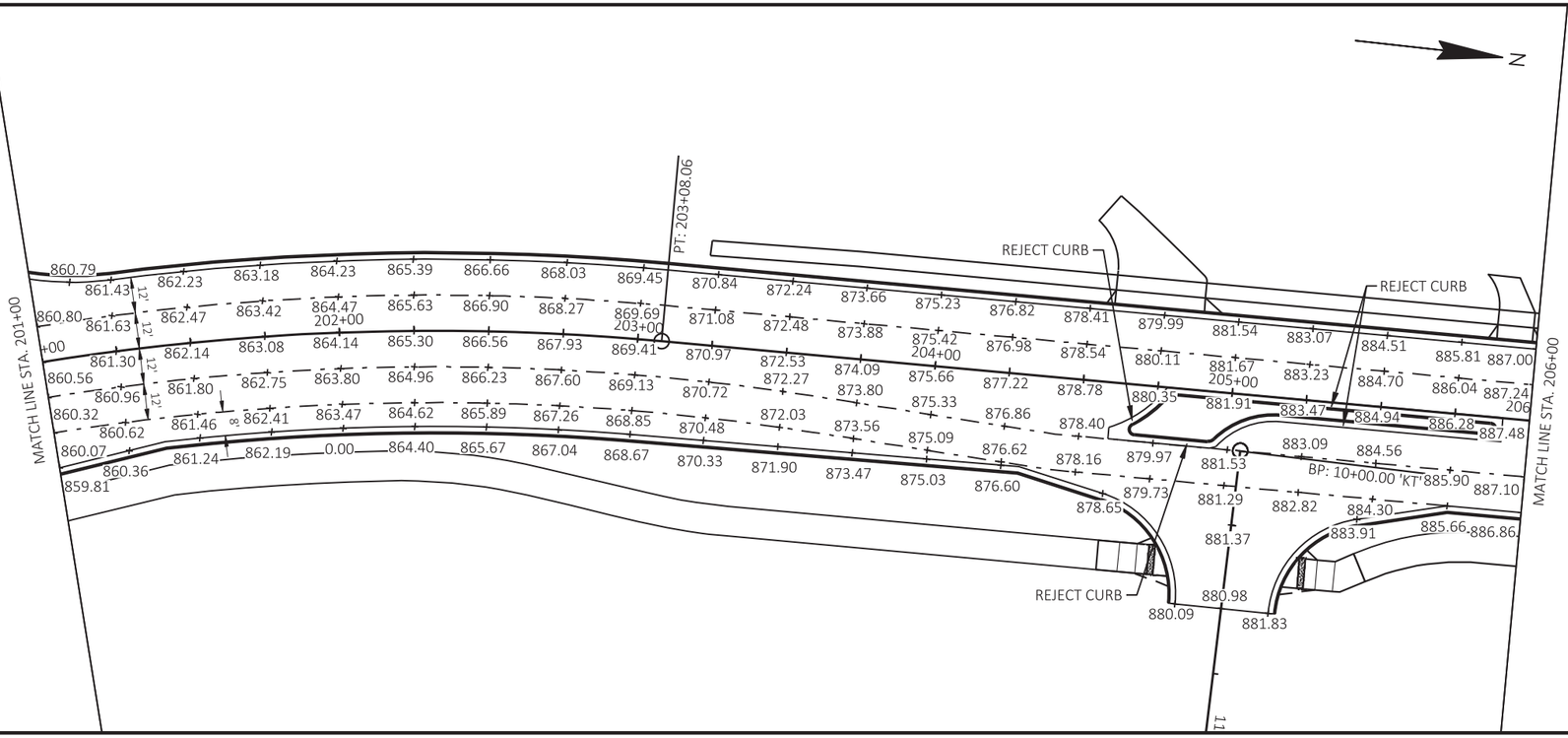
2



NOTES:
ELEVATIONS ARE SHOWN AT 25-FT INTERVALS.

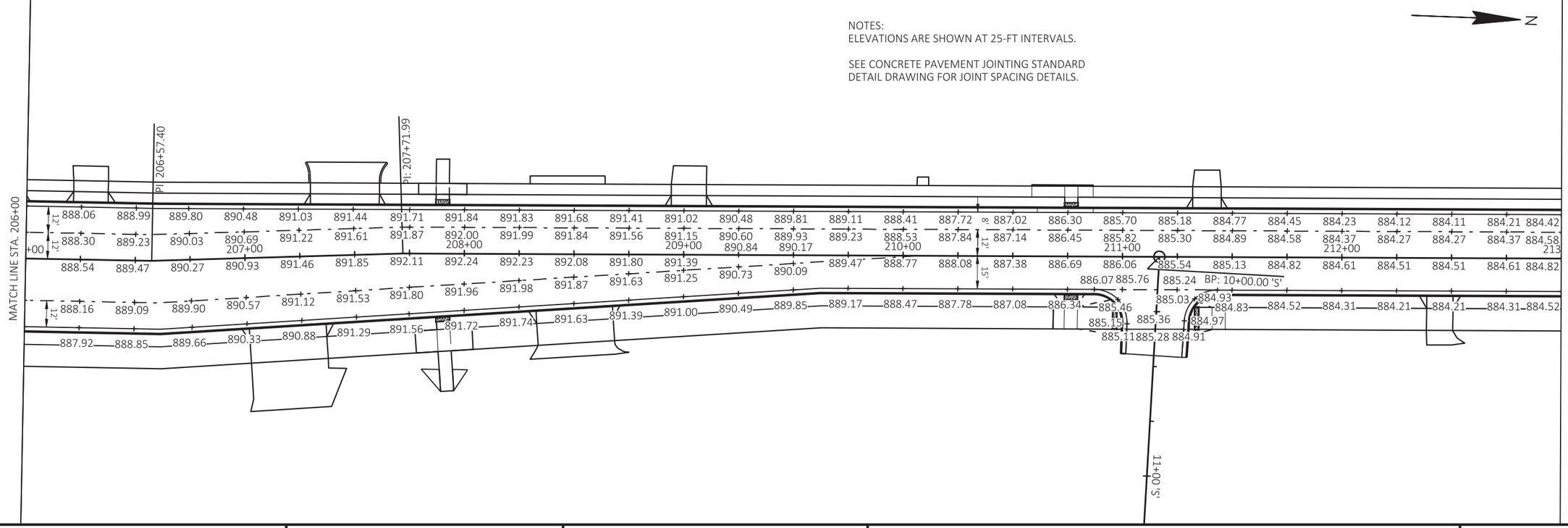
SEE CONCRETE PAVEMENT JOINTING STANDARD DETAIL DRAWING FOR JOINT SPACING DETAILS.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PAVING DETAILS	SHEET 40	E

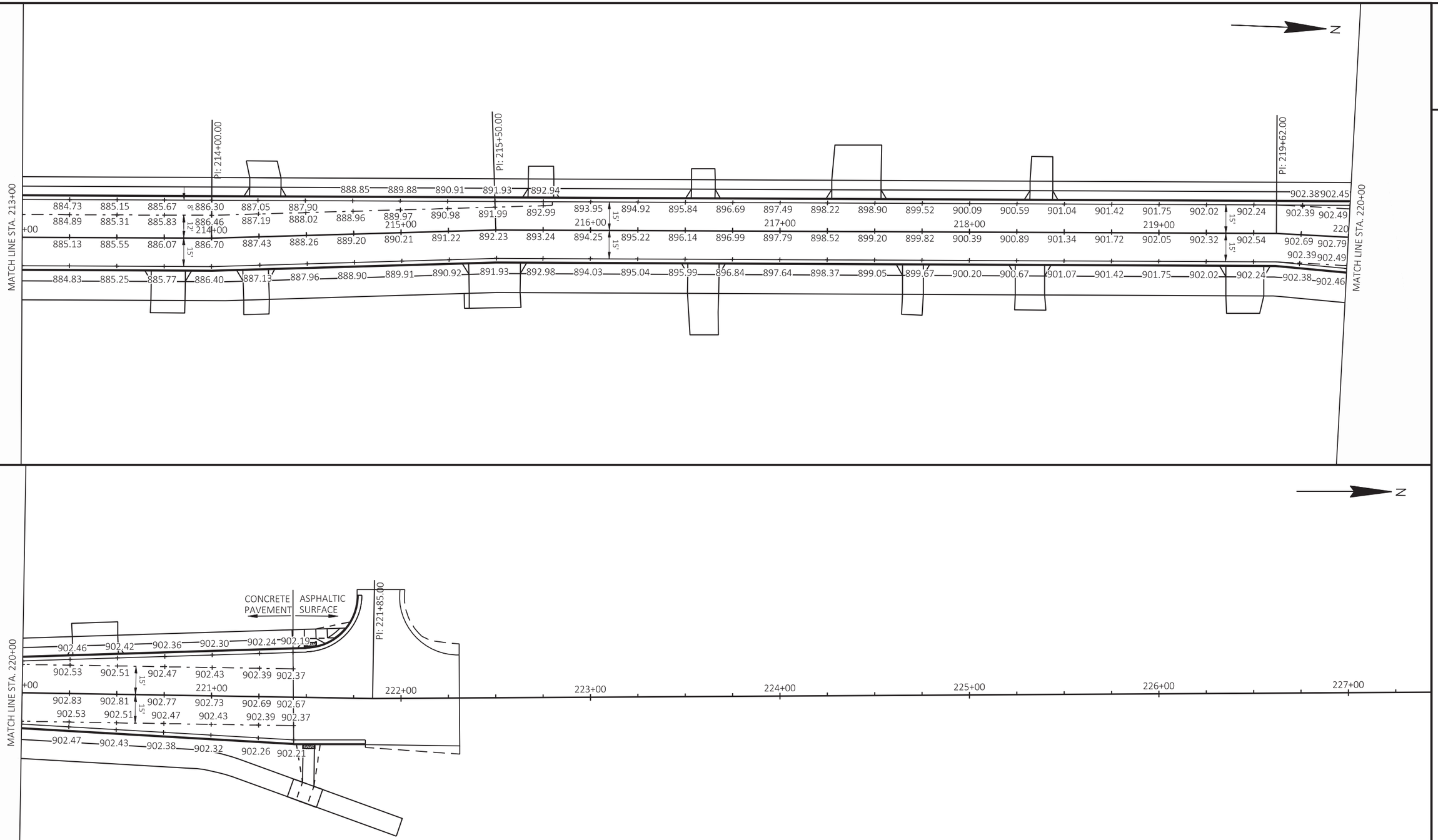


NOTES:
ELEVATIONS ARE SHOWN AT 25-FT INTERVALS.

SEE CONCRETE PAVEMENT JOINTING STANDARD
DETAIL DRAWING FOR JOINT SPACING DETAILS.



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PAVING DETAILS	SHEET 41	E



NOTES:
ELEVATIONS ARE SHOWN AT 25-FT INTERVALS.

SEE CONCRETE PAVEMENT JOINTING STANDARD
DETAIL DRAWING FOR JOINT SPACING DETAILS.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PAVING DETAILS	SHEET 42	E

2

EXISTING R/W

159+00 'SB'

160+00 'SB'

159+00

160+00

161+00 'SB'

162+00 'SB'

163+00 'SB'

PT: 163+66.17 'SB'

164+00 'SB'

165+00 'SB'

166+

165+00

164+00

161+00

162+00

163+00

STH 35/BUS 64

MATCH LINE STA. 166+00

PT: 164+02.09

EXISTING R/W

N

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS I TYPE B
- SILT FENCE
- RIPRAP (SEE STORM SEWER PLANS)
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

180TH AVE

EXISTING R/W

PC: 167+89.72 'SB'

PC: 168+52.76

167+00 'SB'

168+00 'SB'

169+00 'SB'

170+00 'SB'

171+00 'SB'

172+00 'SB'

00 'SB'

+00

167+00

168+00

169+00

170+00

171+00

172+00

173+

173

STH 35/BUS 64

MATCH LINE STA. 166+00

MATCH LINE STA. 173+00

EXISTING R/W

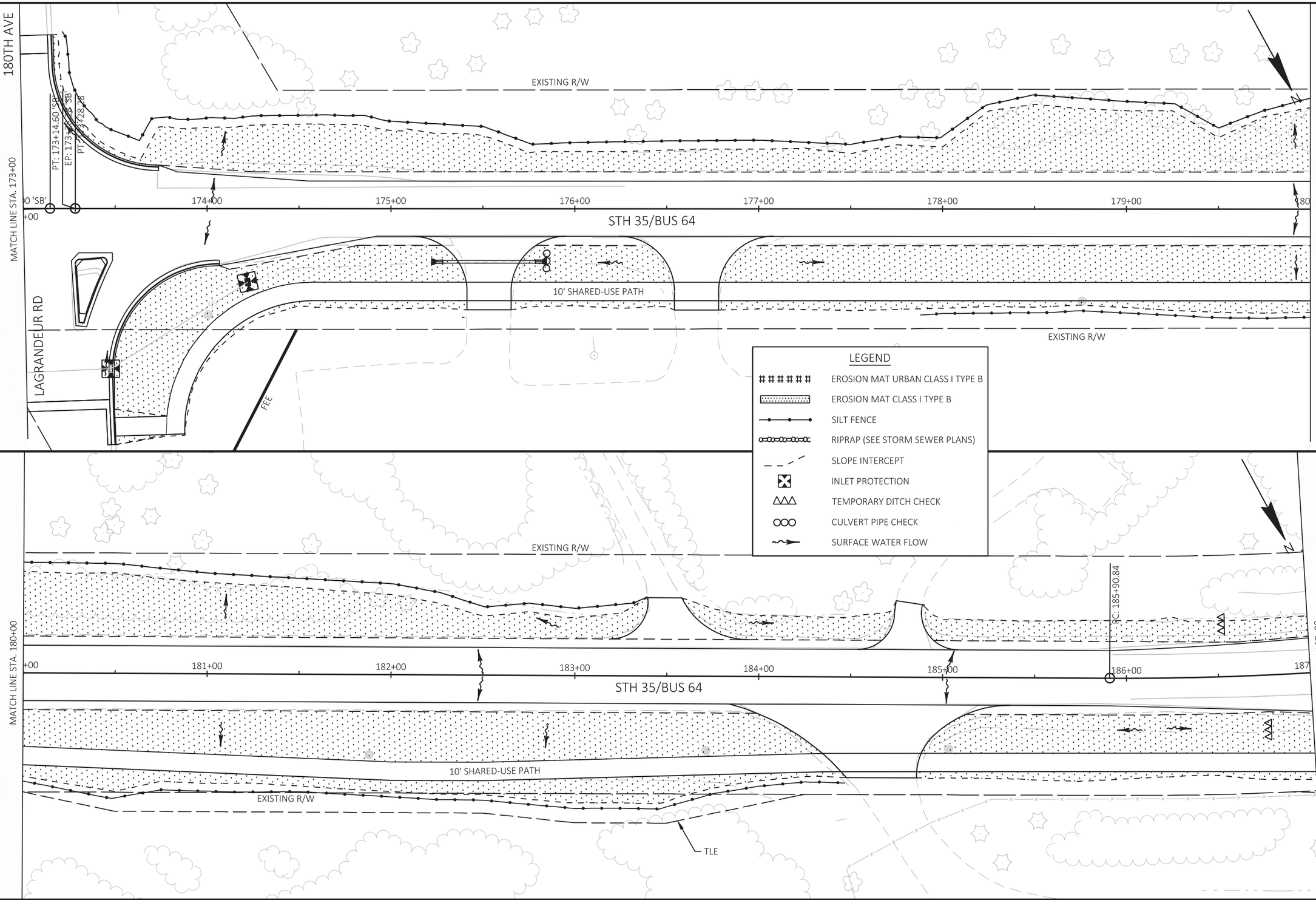
SIGN

LAGRANDEUR RD

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	EROSION CONTROL	SHEET 43	E

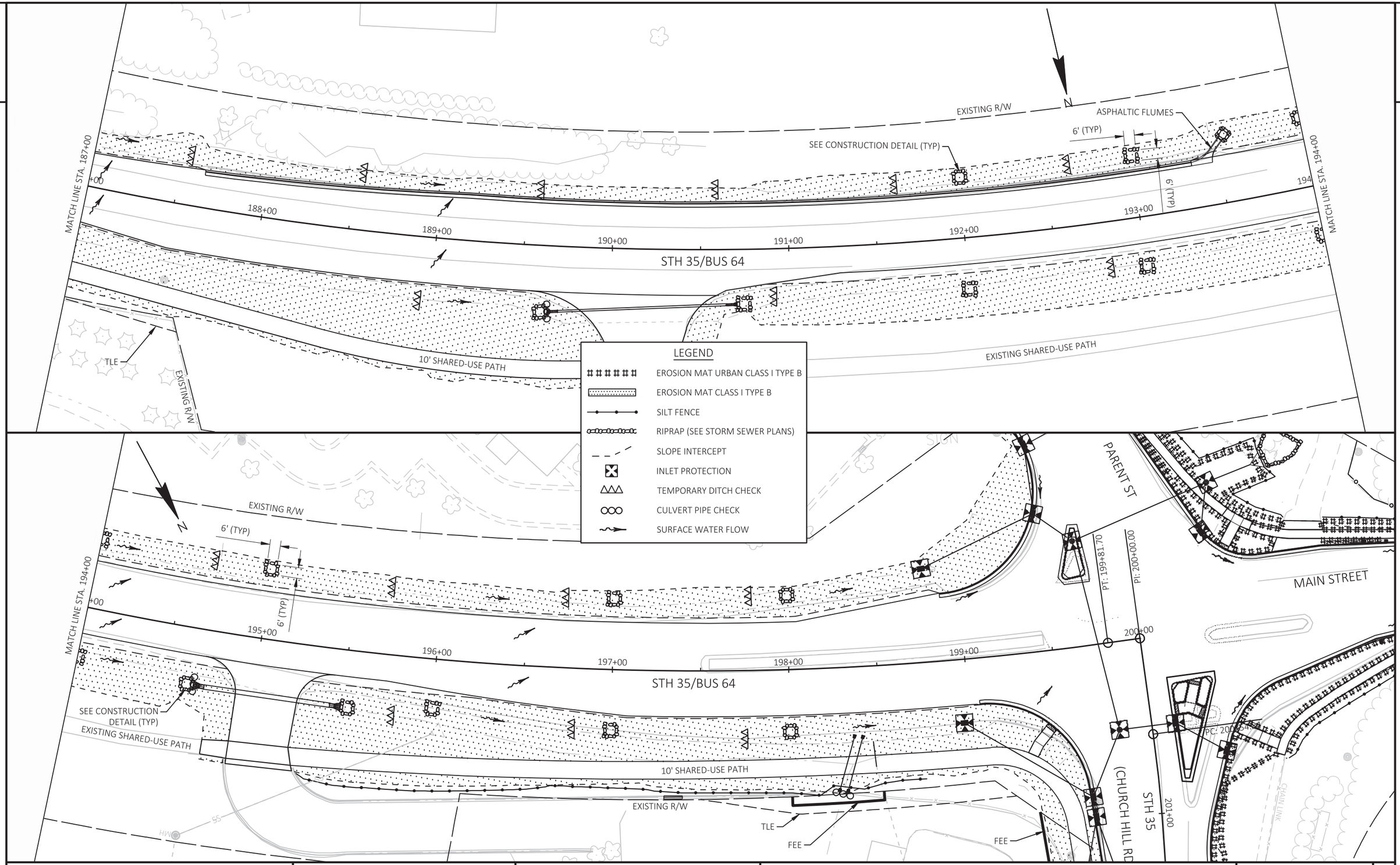
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 022001

PLOT DATE : 10/31/2022 4:11 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT



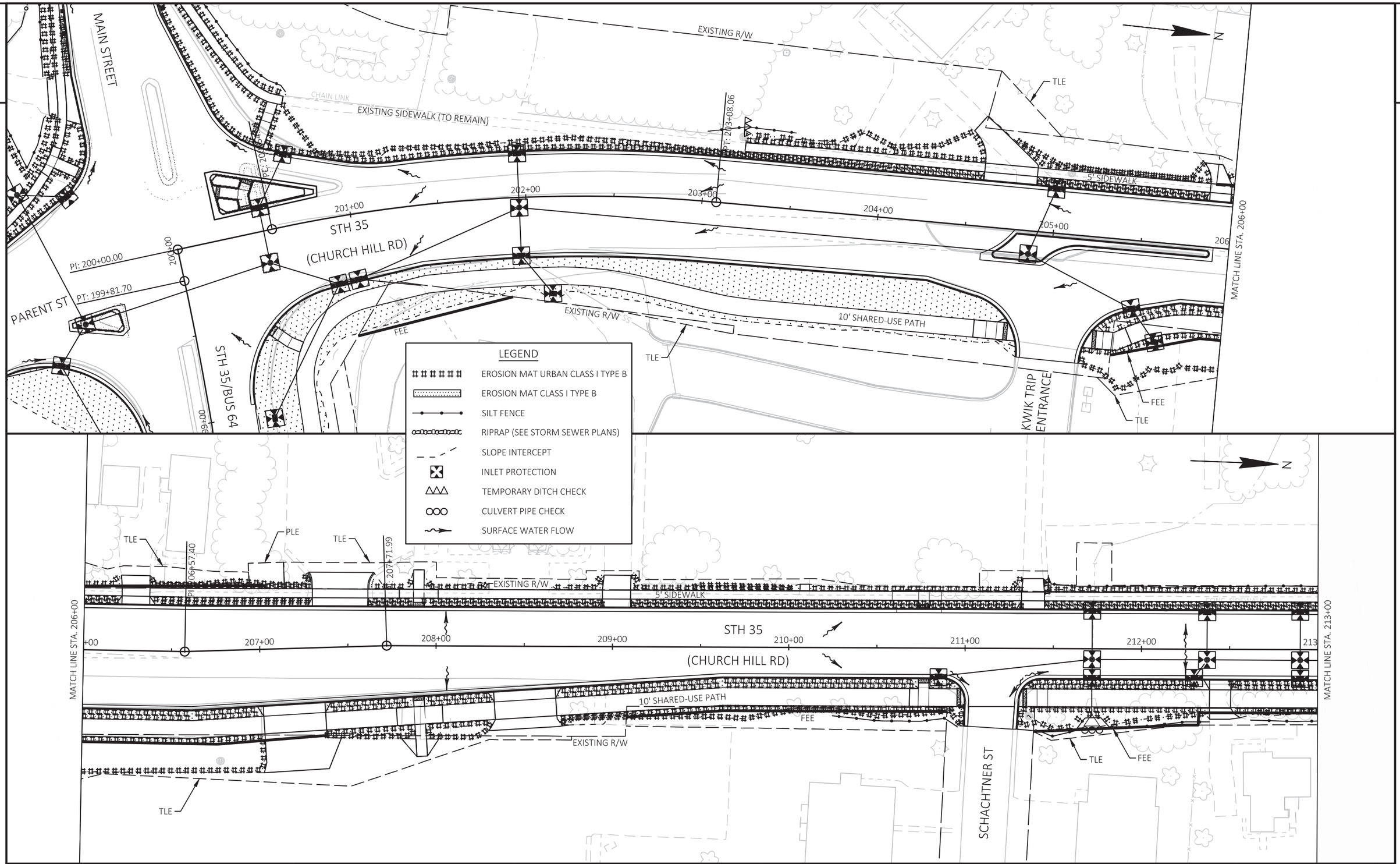
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	EROSION CONTROL	SHEET 44	E

2



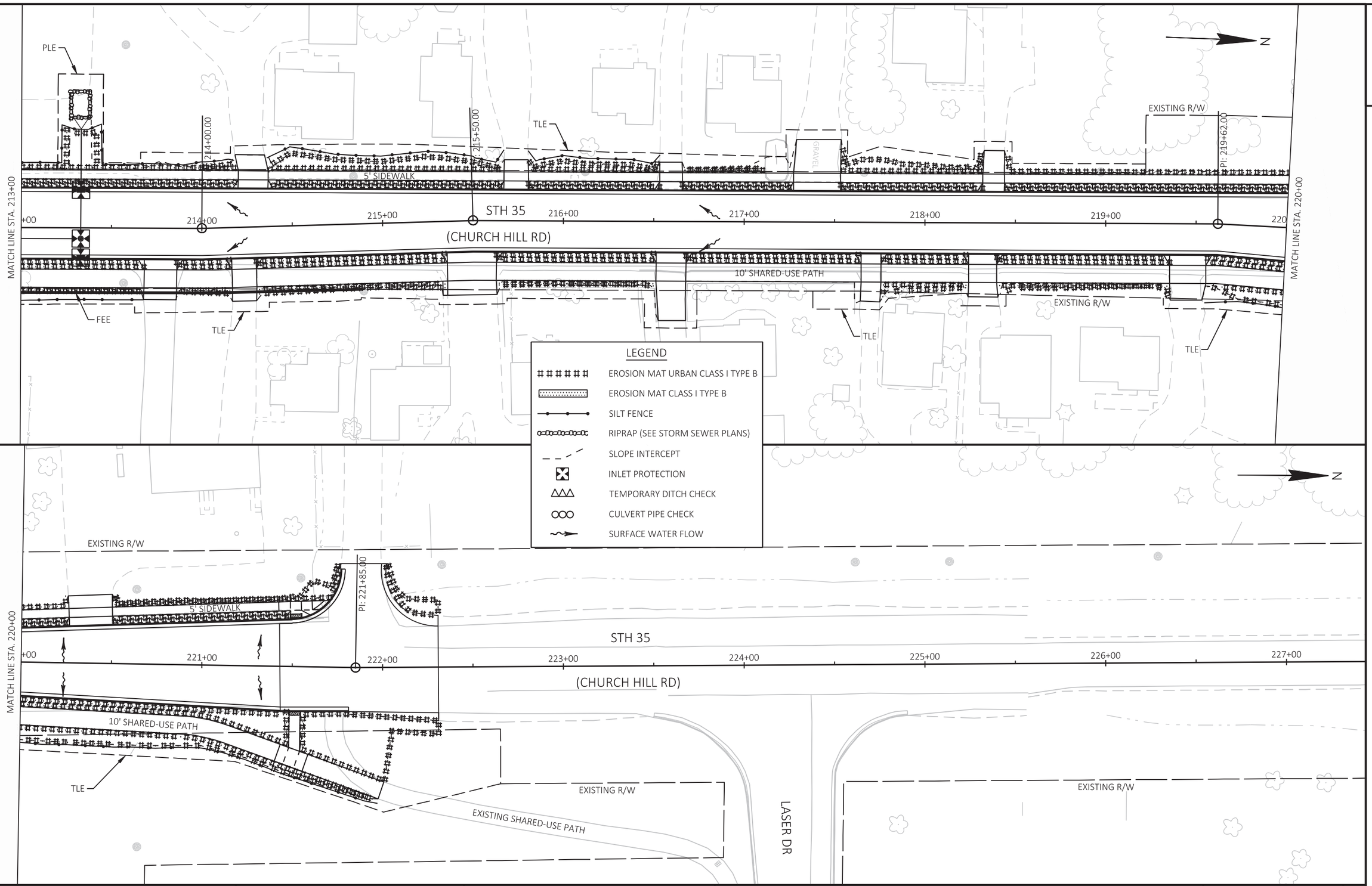
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	EROSION CONTROL	SHEET 45	E

2



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	EROSION CONTROL	SHEET 46	E

2



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	EROSION CONTROL	SHEET 47	E

2

MAIN STREET

EXISTING R/W

5' SIDEWALK

PARENT ST

PI: 200+00.00

PT: 199+81.70

200+00

201+00

STH 35

(CHURCH HILL RD)

202+00

203+00

204+00

205+00

PT: 203+08.06

CHAIN LINK

EXISTING SIDEWALK (TO REMAIN)

TLE

FEE

10' SHARED-USE PATH

STH 35/BUS 64

199+00

198+00

197+00

196+00

195+00

N

SIGN

PT: 201+54.84

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS I TYPE B
- SILT FENCE
- RIPRAP (SEE STORM SEWER PLANS)
- SLOPE INTERCEPT
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	EROSION CONTROL	SHEET 48	E

2

STH 64 WB OFF RAMP

STH 64 WB ON RAMP

EXISTING R/W

SLOPE INTERCEPT (TYP)

WISDOT

PT: 163+56.12 'SB'

159+00 'SB'

160+00 'SB'

159+00

160+00

CONCRETE

161+00 'SB'

162+00 'SB'

163+00 'SB'

164+00 'SB'

165+00 'SB'

166+

161+00

162+00

163+00

164+00

165+00

166

MATCH LINE STA. 166+00

STH 35/BUS 64

CONCRETE

INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 12-CT (IN EXISTING CONDUIT)

FO

WISDOT

FIBER 4' BEG
STA 161+00 - STA 166+00

SLOPE INTERCEPT (TYP)

BASE AGGREGATE DENSE SHOULDER (TYP)

PT: 164+02.09

EDGE OF CONCRETE PAVEMENT (TYP)

NORTHWEST COMMUNICATIONS

TIE FIBER INTO EXISTING PULL BOX (TO REMAIN)

EXISTING CONDUIT (TO REMAIN)

VILLAGE OF SOMERSET

XCEL ENERGY

EXISTING R/W

XCEL ENERGY

CTH C

LEGEND

PULL BOXES STEEL 24x36-INCH (UNLESS OTHERWISE NOTED)

FO INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 12-CT W/ CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)

NOTE: GAS MAIN TO BE RELOCATED UNDER SHARED-USE PATH

NOTES:

PLACE FIBER BELOW EXISTING GRADE (BEG) AS SHOWN.

EXISTING FIBER TO REMAIN AS SHOWN. EXISTING FIBER THAT IS REPLACED CAN BE REMOVED BY CONTRACTOR IF NECESSARY.

NORTHWEST COMMUNICATIONS

XCEL ENERGY

SEE INTERSECTION DETAILS

180TH AVE

SLOPE INTERCEPT (TYP)

EXISTING R/W

PC: 167+89.72 'SB'

PC: 168+52.72

BASE AGGREGATE DENSE SHOULDER (TYP)

MIDWEST NATURAL GAS, INC

BM 210

EDGE OF CONCRETE PAVEMENT (TYP)

167+00 'SB'

168+00 'SB'

169+00 'SB'

170+00 'SB'

171+00 'SB'

172+00 'SB'

167+00

168+00

169+00

170+00

171+00

172+00

MATCH LINE STA. 166+00

STH 35/BUS 64

MATCH LINE STA. 173+00

PULL BOXES STEEL 24x42-INCH

FIBER 4' BEG
CONDUIT SPECIAL 2-INCH
STA 172+25 - STA 173+95

SLOPE INTERCEPT (TYP)

XCEL ENERGY

NORTHWEST COMMUNICATIONS

WISDOT

VILLAGE OF SOMERSET

EXISTING R/W

FIBER 4' BEG
STA 166+00 - STA 172+25

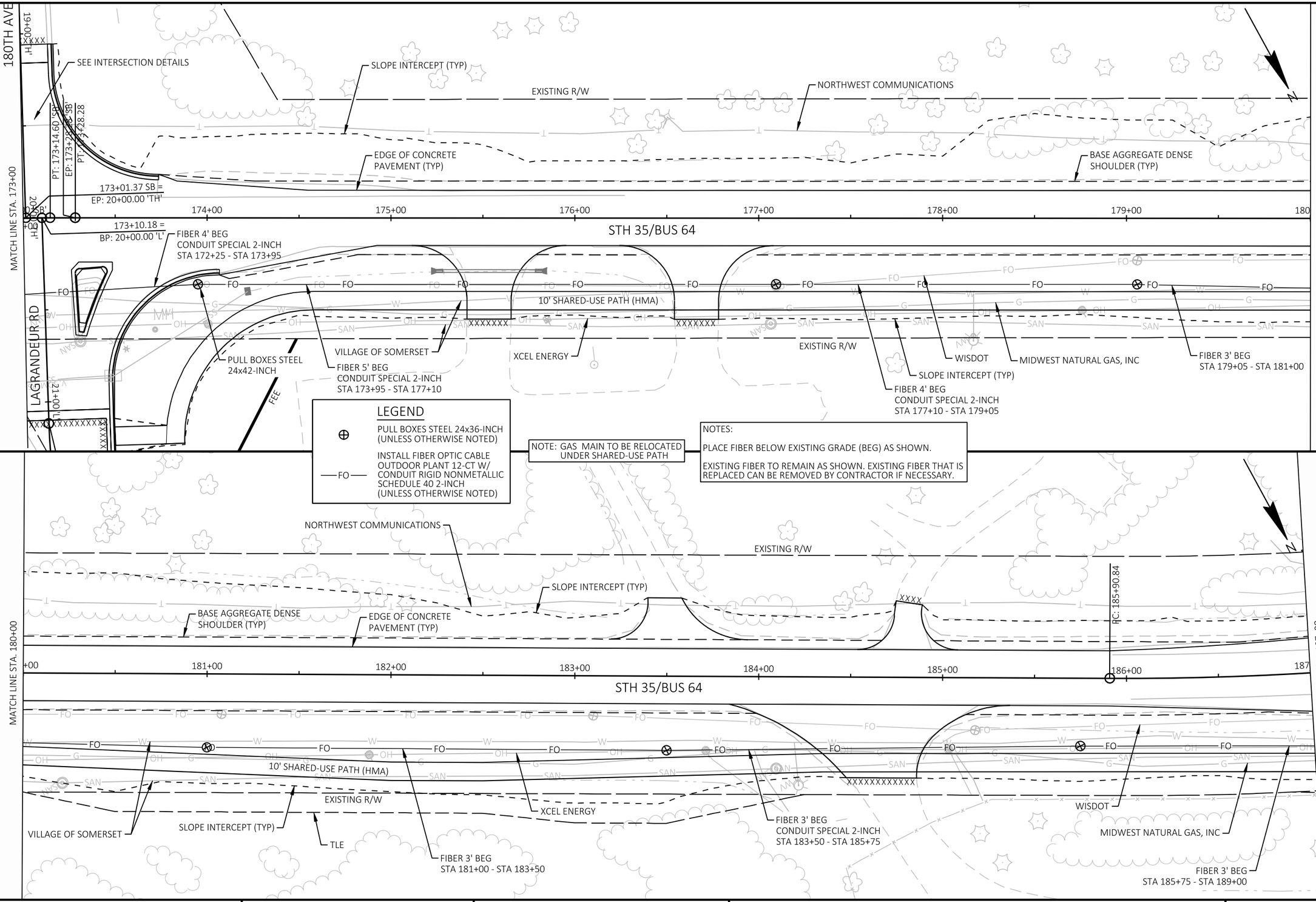
LAGRANDEUR RD

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	FIBER OPTIC	SHEET 49	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\023001_UP.DWG
LAYOUT NAME - 023001

PLOT DATE : 10/30/2022 11:15 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44



LEGEND

⊕ PULL BOXES STEEL 24x36-INCH (UNLESS OTHERWISE NOTED)

—FO— INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 12-CT W/ CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)

NOTE: GAS MAIN TO BE RELOCATED UNDER SHARED-USE PATH

NOTES:

PLACE FIBER BELOW EXISTING GRADE (BEG) AS SHOWN.

EXISTING FIBER TO REMAIN AS SHOWN. EXISTING FIBER THAT IS REPLACED CAN BE REMOVED BY CONTRACTOR IF NECESSARY.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	FIBER OPTIC	SHEET 50	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\023001_UP.DWG
LAYOUT NAME - 023002
PLOT DATE : 10/30/2022 11:15 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

2

NORTHWEST COMMUNICATIONS

EXISTING R/W

SLOPE INTERCEPT (TYP)

MATCH LINE STA. 187+00

MATCH LINE STA. 194+00

188+00 189+00 190+00 191+00 192+00 193+00

STH 35/BUS 64

FIBER 3' BEG
STA 185+75 - STA 189+00

FIBER 4' BEG
CONDUIT SPECIAL 2-INCH
STA 189+00 - STA 191+00

BASE AGGREGATE DENSE SHOULDER (TYP)

EDGE OF CONCRETE PAVEMENT (TYP)

EXISTING SHARED-USE PATH

FIBER 3' BEG
STA 191+00 - STA 194+25

TLE

EXISTING FENCE
(TO REMAIN)

MIDWEST NATURAL GAS, INC

WISDOT

10' SHARED-USE PATH (HMA)

VILLAGE OF SOMERSET

SLOPE INTERCEPT (TYP)

NOTE: GAS MAIN TO BE RELOCATED UNDER SHARED-USE PATH

LEGEND

PULL BOXES STEEL 24x36-INCH (UNLESS OTHERWISE NOTED)

FO — INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 12-CT W/ CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)

NOTES:

PLACE FIBER BELOW EXISTING GRADE (BEG) AS SHOWN.

EXISTING FIBER TO REMAIN AS SHOWN. EXISTING FIBER THAT IS REPLACED CAN BE REMOVED BY CONTRACTOR IF NECESSARY.

XCEL ENERGY

NORTHWEST COMMUNICATIONS

CONNECT TO EXISTING CABINET WHILE EXISTING SIGNALS ARE OPERATIONAL. CONNECT TO NEW SIGNAL CABINET WHEN COMPLETED.

FIBER 3' BEG
STA 196+68 - STA 199+30

PULL BOXES STEEL 24x42-INCH

SLOPE INTERCEPT (TYP)

BM 214

BM 215

5' SIDEWALK

MIDWEST NATURAL GAS, INC

WISDOT

VILLAGE OF SOMERSET

PARENT ST

PT: 9+50.61

PI: 200+00

MAIN STREET

MATCH LINE STA. 194+00

195+00 196+00 197+00 198+00 199+00 200+00

FIBER 6' BEG
CONDUIT SPECIAL 2-INCH

PULL BOXES STEEL 24x42-INCH

EP: 10+00.00

EXISTING SHARED-USE PATH

10' SHARED-USE PATH (HMA)

VILLAGE OF SOMERSET

FIBER 4' BEG
CONDUIT SPECIAL 2-INCH
STA 194+25 - STA 196+68

WISDOT

EXISTING R/W

SLOPE INTERCEPT (TYP)

TLE

FEE

STH 35

(CHURCH HILL RD)

PI: 9+00.00 N

PC: 200+54.24

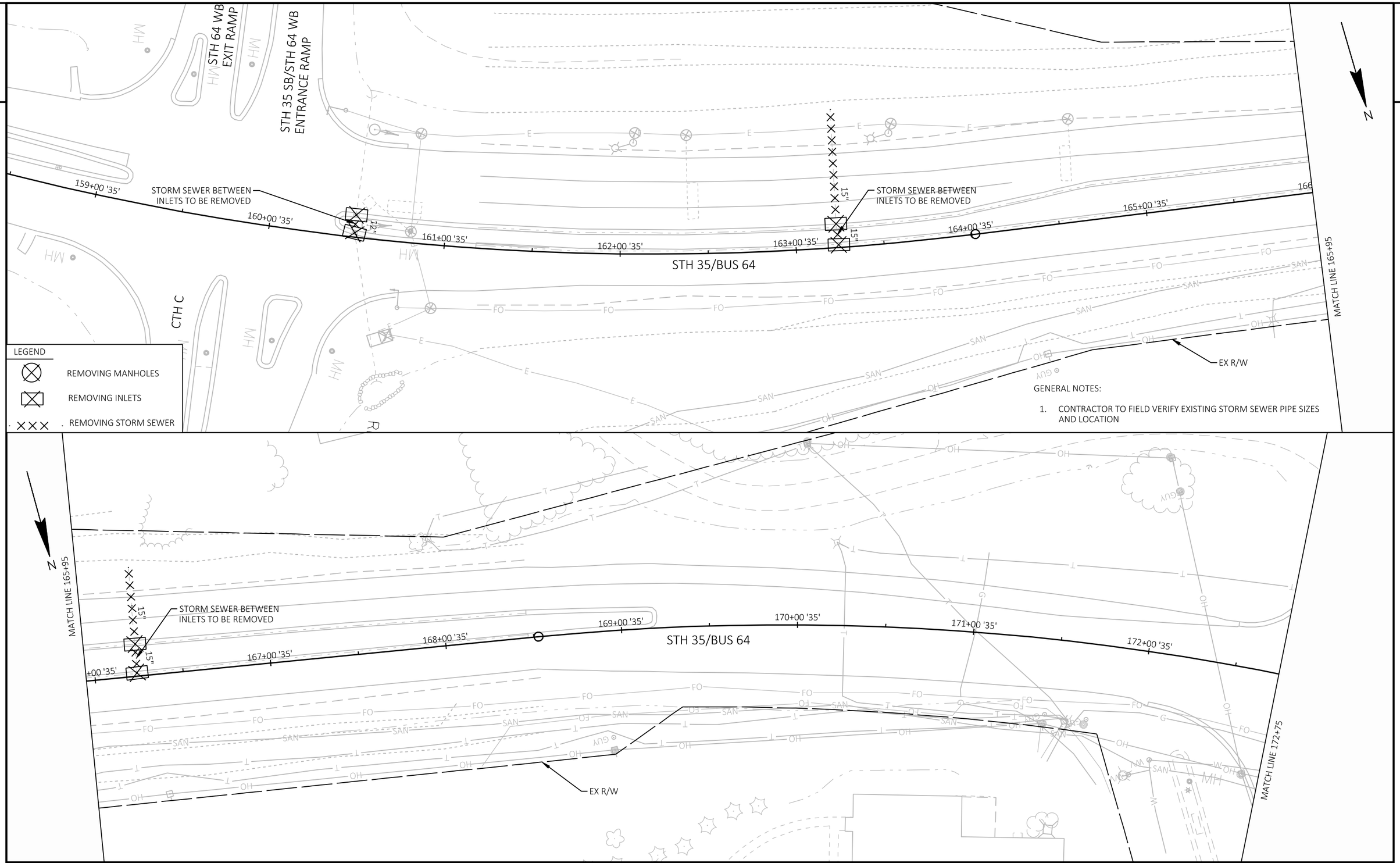
XCEL ENERGY

EXISTING SIDEWALK

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	FIBER OPTIC	SHEET 51	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\023001_UP.DWG
LAYOUT NAME - 023003

PLOT DATE : 11/1/2022 7:48 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER REMOVALS STH 35-BUS 64	SHEET 52	E

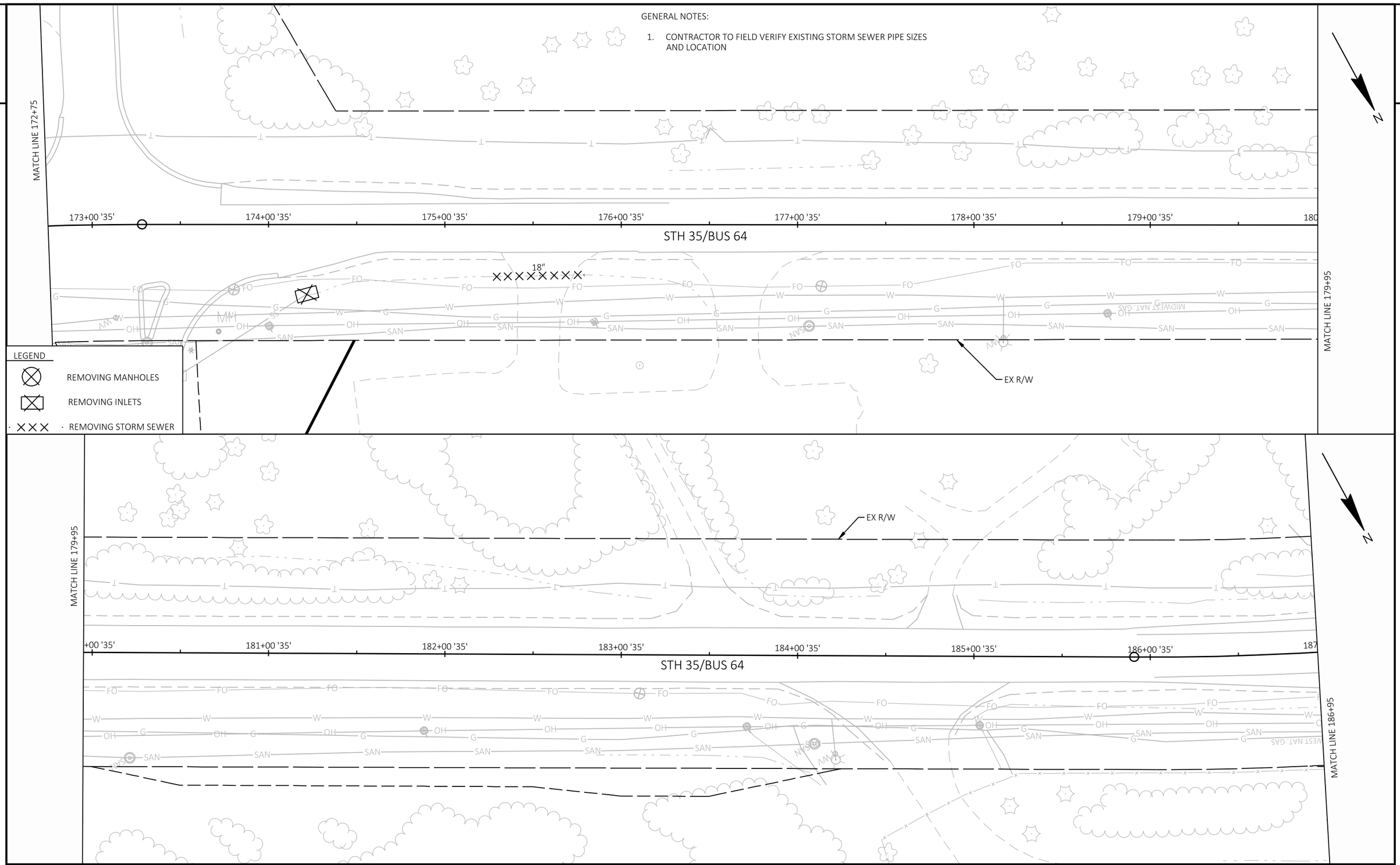
FILE NAME : C:\ONEDRIVE\AECOM\STH 35 - GENERAL\CADD\SHEETS\022550-SS REMOVALS.DWG
LAYOUT NAME - 022551-ss removals

PLOT DATE : 10/24/2022 5:35 PM PLOT BY : NEEVE, KYLE PLOT NAME : PLOT SCALE : ######

WISDOT/CADDS SHEET 41

GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING STORM SEWER PIPE SIZES AND LOCATION



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER REMOVALS STH 35-BUS 64	SHEET 53	E

FILE NAME : C:\ONEDRIVE\AECOM\STH 35 - GENERAL\CADD\SHEETS\022550-SS REMOVALS.DWG
LAYOUT NAME - 022552-ss removals

PLOT DATE : 10/24/2022 5:35 PM PLOT BY : NEEVE, KYLE PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 41

GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING STORM SEWER PIPE SIZES AND LOCATION

LEGEND

- REMOVING MANHOLES
- REMOVING INLETS
- REMOVING STORM SEWER

MATCH LINE 186+95

MATCH LINE 193+95

STH 35/BUS 64

EX R/W

PR R/W

PR TEMPORARY EASEMENT

PARENT ST

MAIN ST

STH 35 (CHURCH HILL RD)

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER REMOVALS STH 35-BUS 64	SHEET 54	E

FILE NAME : C:\ONEDRIVE\AECOM\STH 35 - GENERAL\CADD\SHEETS\022550-SS REMOVALS.DWG
LAYOUT NAME - 022553-ss removals

PLOT DATE : 10/24/2022 5:35 PM PLOT BY : NEEVE, KYLE PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 41

2

2

ABANDON STORM MANHOLE

ABANDON STORM SEWER
(EXISTING 30" CMCP FROM PROPOSED
INLET 202.2 TO THE EXISTING END SECTION)

MATCH LINE 205+85

N

STH 35
(CHURCH HILL RD)

201+00 '35'
202+00 '35'
203+00 '35'
204+00 '35'
205+00 '35'

24"
18"
15"
12"
30"

PR R/W

PR TEMPORARY
EASEMENT

EX R/W

LEGEND

REMOVING MANHOLES

REMOVING INLETS

REMOVING STORM SEWER

GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING STORM SEWER PIPE SIZES AND LOCATION

206+00 '35'
207+00 '35'
208+00 '35'
209+00 '35'
210+00 '35'
211+00 '35'
212+00 '35'

STH 35
(CHURCH HILL RD)

CONC. SIDEWALK

STORM SEWER BETWEEN INLET AND
END SECTION TO BE REMOVED

MATCH LINE 205+85

PR R/W

PR TEMPORARY
EASEMENT

EX R/W

SCHACHTNER ST

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER REMOVALS STH 35-BUS 64	SHEET 55	E

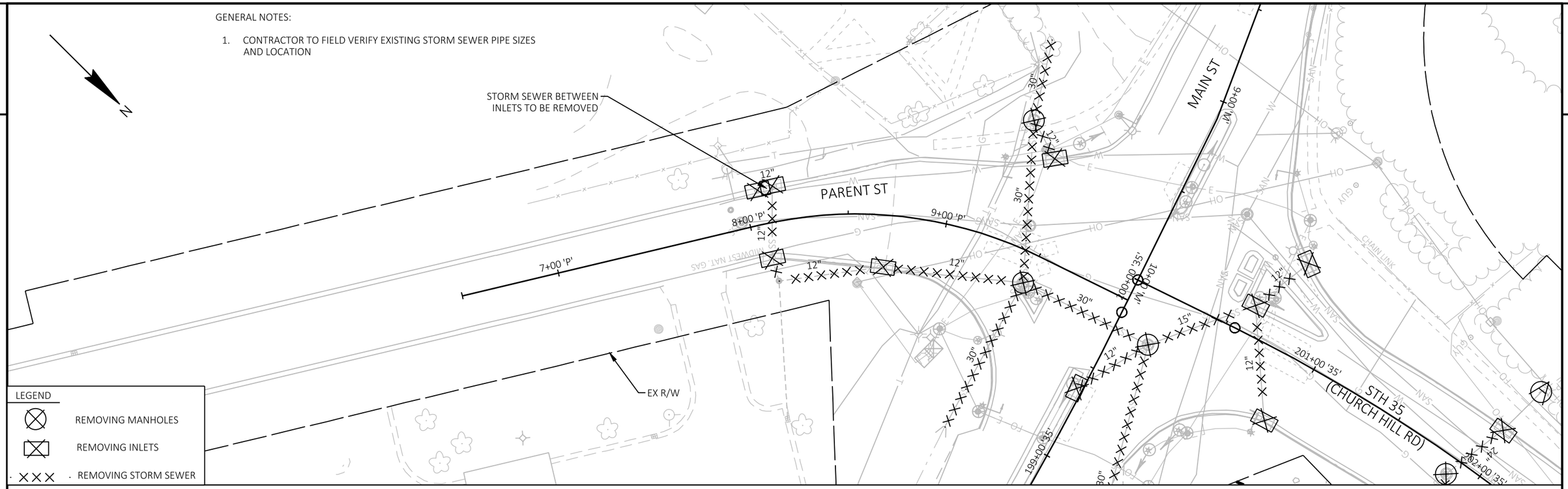
FILE NAME : C:\ONEDRIVE\AECOM\STH 35 - GENERAL\CADD\SHEETS\022550-SS REMOVALS.DWG
LAYOUT NAME - 022554-ss removals

PLOT DATE : 10/24/2022 5:35 PM PLOT BY : NEEVE, KYLE PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 41

GENERAL NOTES:

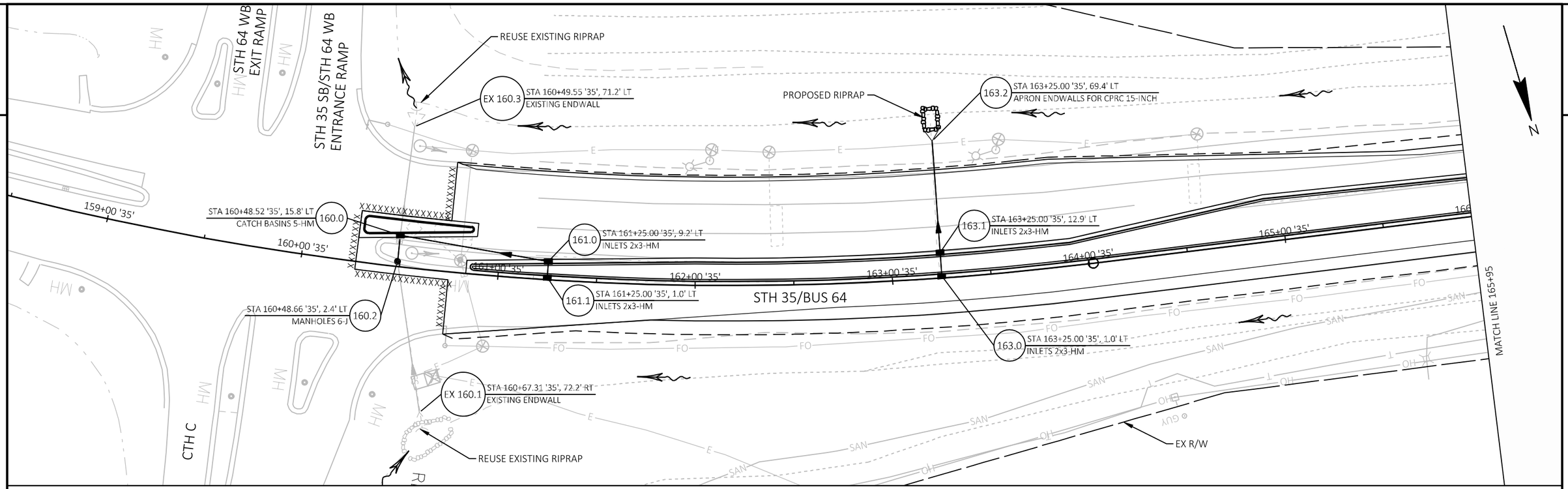
1. CONTRACTOR TO FIELD VERIFY EXISTING STORM SEWER PIPE SIZES AND LOCATION

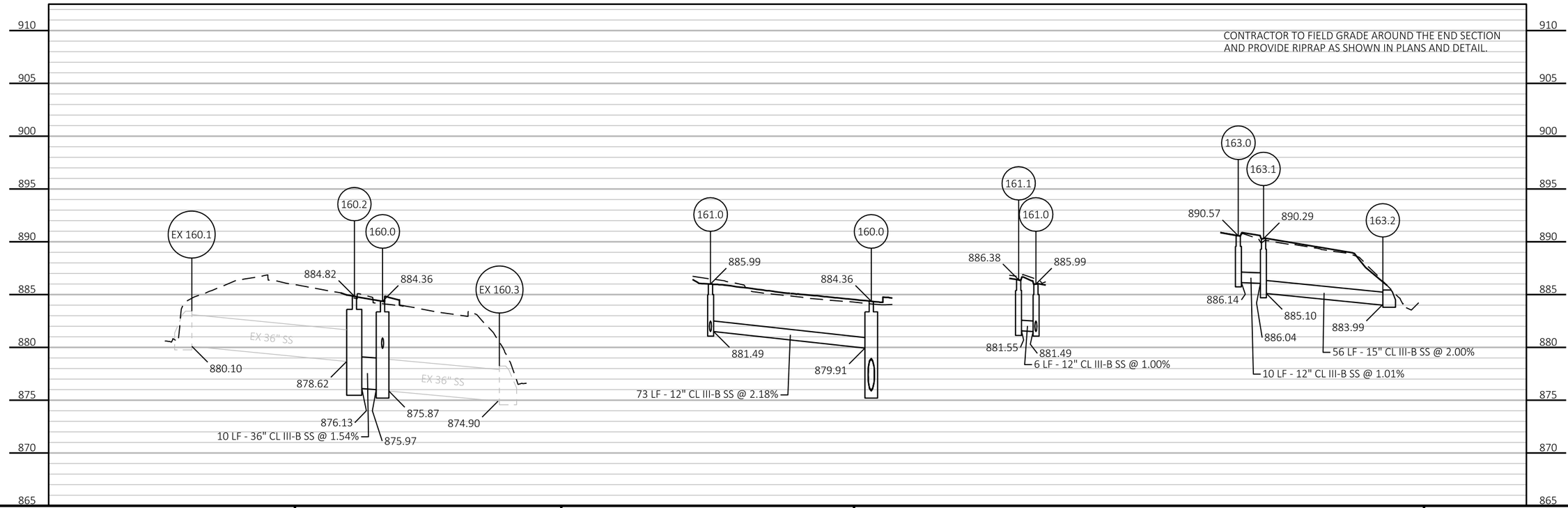


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER REMOVALS STH 35-BUS 64	SHEET 56	E

FILE NAME : C:\ONEDRIVE\AECOM\STH 35 - GENERAL\CADD\SHEETS\022550-SS REMOVALS.DWG
LAYOUT NAME - 022556-ss removals
PLOT DATE : 10/24/2022 5:35 PM PLOT BY : NEEVE, KYLE PLOT NAME : PLOT SCALE : ##########

2

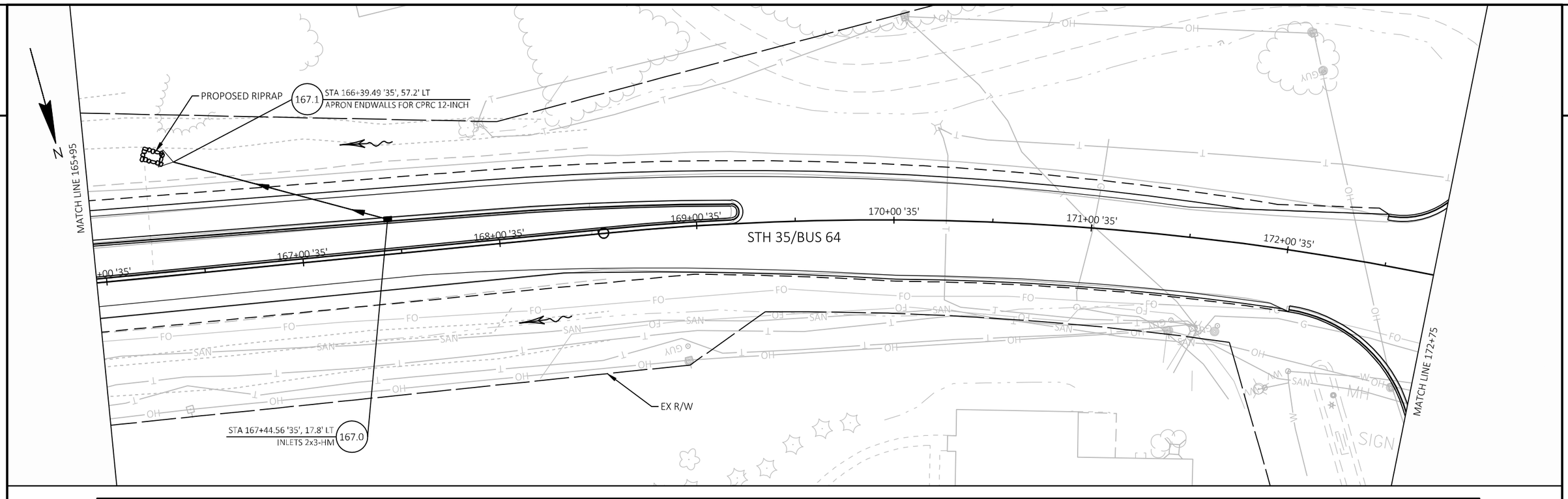




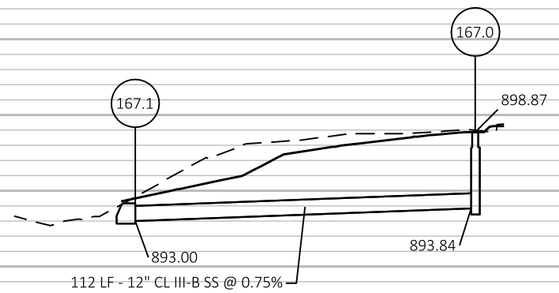
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER STH 35-BUS 64	SHEET 57	E

FILE NAME : C:\ONEDRIVE\AECOM\STH 35 - GENERAL\CADD\SHEETS\022500-SS.DWG
LAYOUT NAME - 022501-ss
PLOT DATE : 10/27/2022 9:44 AM
PLOT BY : NEEVE, KYLE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41

2



CONTRACTOR TO FIELD GRADE AROUND THE END SECTION
AND PROVIDE RIPRAP AS SHOWN IN PLANS AND DETAIL.



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER STH 35-BUS 64	SHEET 58	E

2

2

MATCH LINE 172+75

STA 175+28, O/S 28.8' RT TO STA 175+79, O/S 28.8' RT
1 - 50 LF - CULVERT PIPE CLASS III-B 18-INCH REQ'D
2 - APRON ENDWALLS FOR CULVERT PIPE 18-INCH

N

173+00 '35' 174+00 '35' 175+00 '35' 176+00 '35' 177+00 '35' 178+00 '35' 179+00 '35' 180

STH 35/BUS 64

STA 174+22.09 '35', 39.9' RT
INLETS MEDIAN 1G-MS
174.0
CAUTION

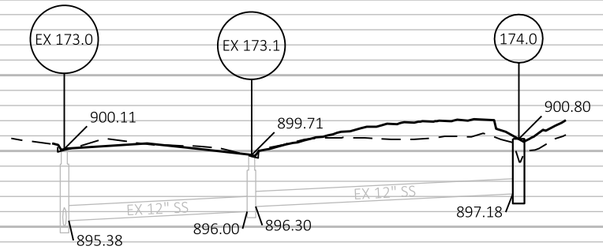
EX 173.1
STA 173+47.62 '35', 87.1' RT
EX INLET, ADJUST CASTING TO MATCH PR GRADE

EX 173.0
STA 172+83.13 '35', 89.3' RT
EX INLET, ADJUST CASTING TO MATCH PR GRADE

STA 175+28
O/S 28.8' RT
INV 901.00'

STA 175+79
O/S 28.8' RT
INV 901.25'

EX R/W



920 915 910 905 900 895 890 885 880 875

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER STH 35-BUS 64	SHEET 59	E

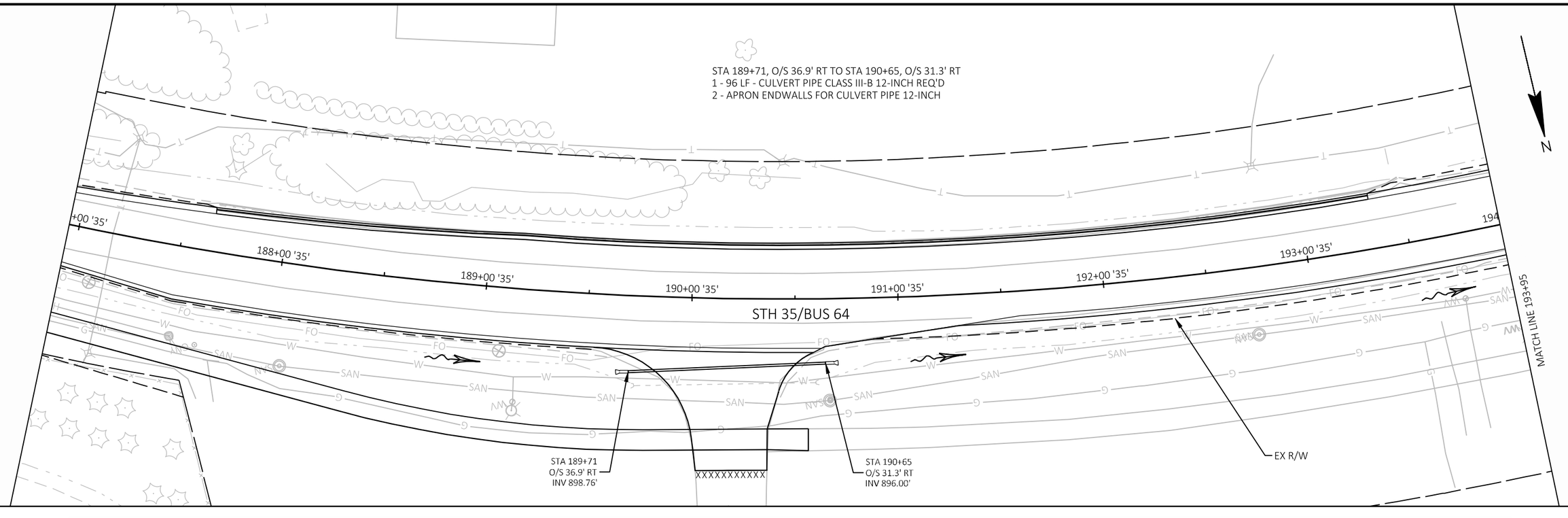
FILE NAME : C:\ONEDRIVE\AECOM\STH 35 - GENERAL\CADD\SHEETS\022500-SS.DWG
LAYOUT NAME - 022503-ss

PLOT DATE : 10/27/2022 9:45 AM PLOT BY : NEEVE, KYLE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 41

2

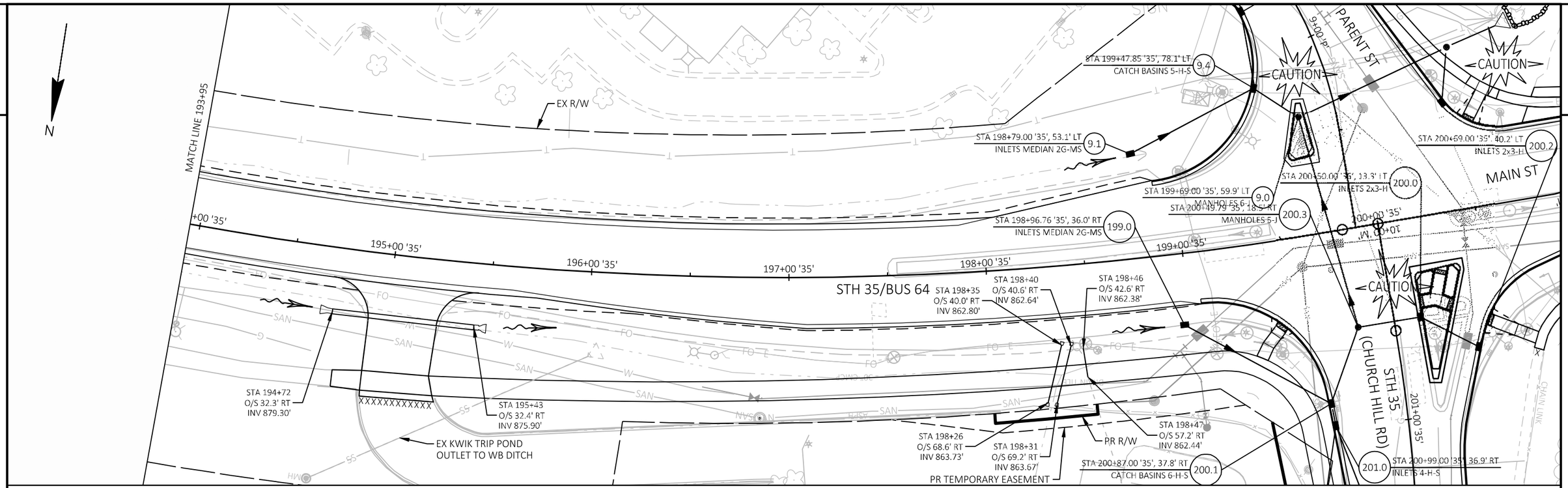
STA 189+71, O/S 36.9' RT TO STA 190+65, O/S 31.3' RT
1 - 96 LF - CULVERT PIPE CLASS III-B 12-INCH REQ'D
2 - APRON ENDWALLS FOR CULVERT PIPE 12-INCH





PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER STH 35-BUS 64	SHEET 60	E

FILE NAME : C:\ONEDRIVE\AECOM\STH 35 - GENERAL\CADD\SHEETS\022500-SS.DWG
LAYOUT NAME - 022505-ss
PLOT DATE : 10/27/2022 9:45 AM PLOT BY : NEEVE, KYLE PLOT NAME : PLOT SCALE : 1 IN:50 FT

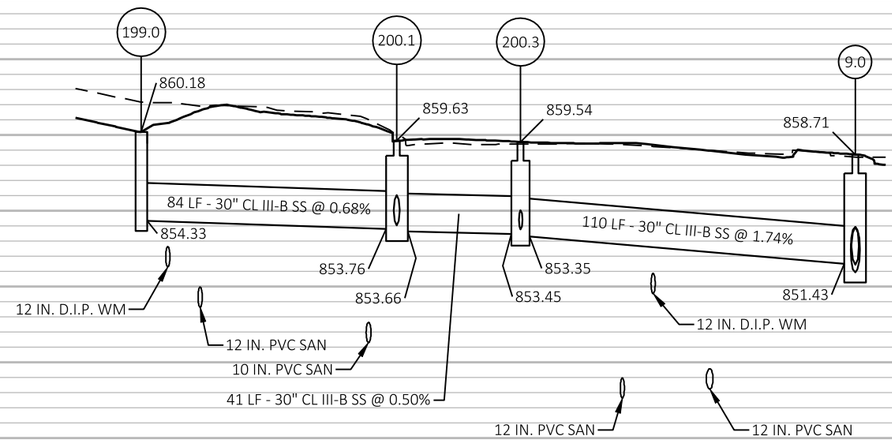


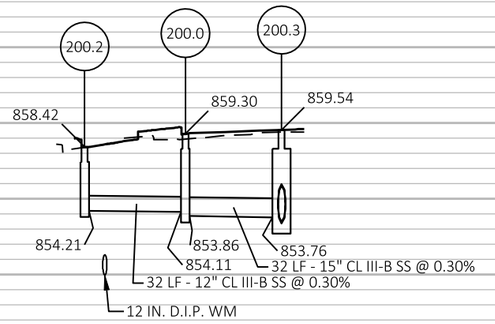
STA 194+72, O/S 32.3' RT TO STA 195+43, O/S 32.4' RT
1 - 72 LF - CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH REQ'D
2 - APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH

STA 198+26, O/S 68.6' RT TO STA 198+35, O/S 40.0' RT
STA 198+31, O/S 69.2' RT TO STA 198+40, O/S 40.6' RT
2 - 30 LF - CULVERT PIPE CLASS III-B 15-INCH REQ'D
4 - APRON ENDWALLS FOR CULVERT PIPE 15-INCH

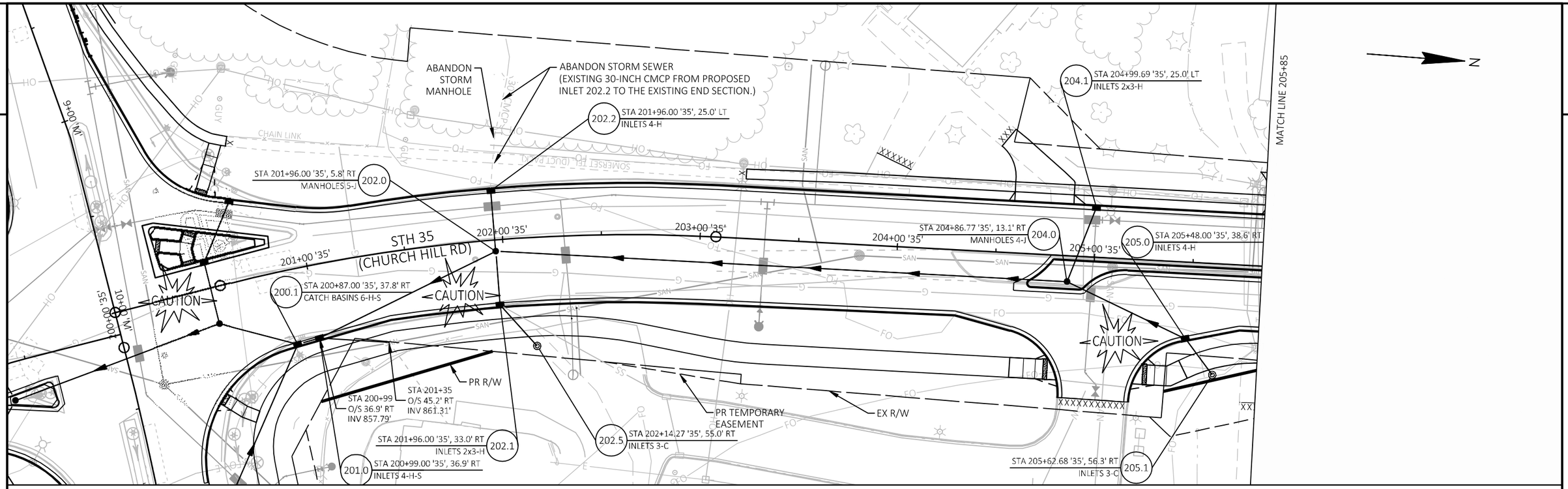
STA 198+46, O/S 42.6' RT TO STA 198+47, O/S 57.2' RT
1 - 15 LF - STORM SEWER PVC 8-INCH REQ'D
1 - CONNECT TO EXISTING STORM SEWER (ROOF DRAIN)

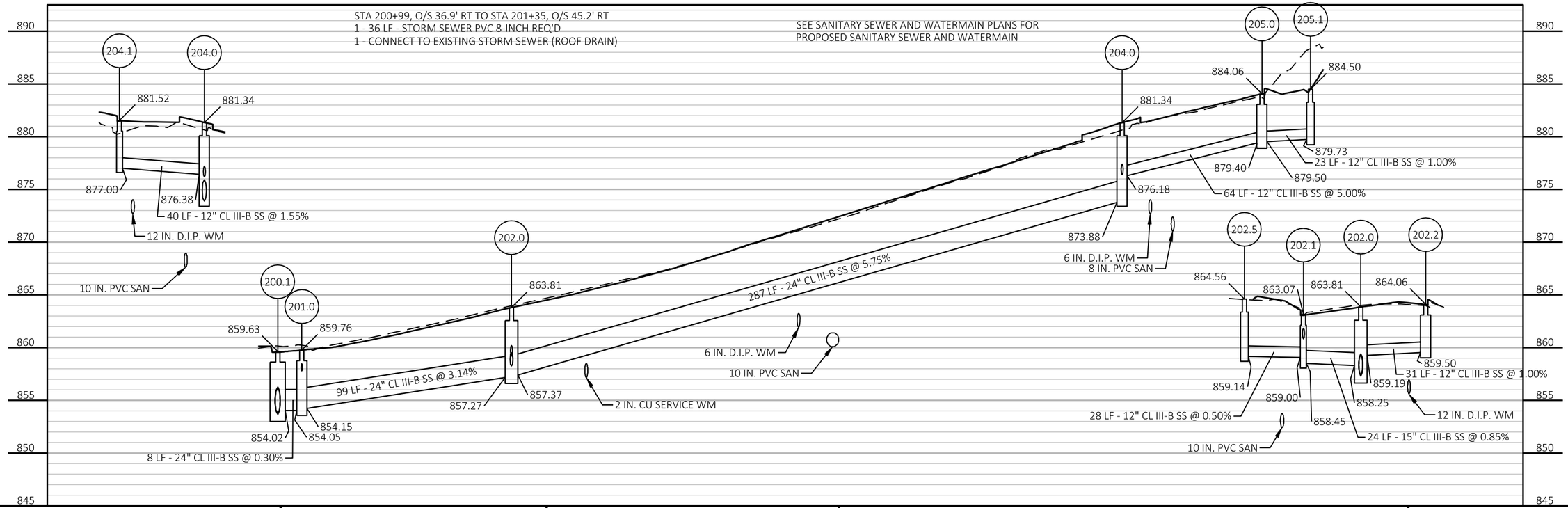
SEE SANITARY SEWER AND WATERMAIN PLANS FOR PROPOSED SANITARY SEWER AND WATERMAIN



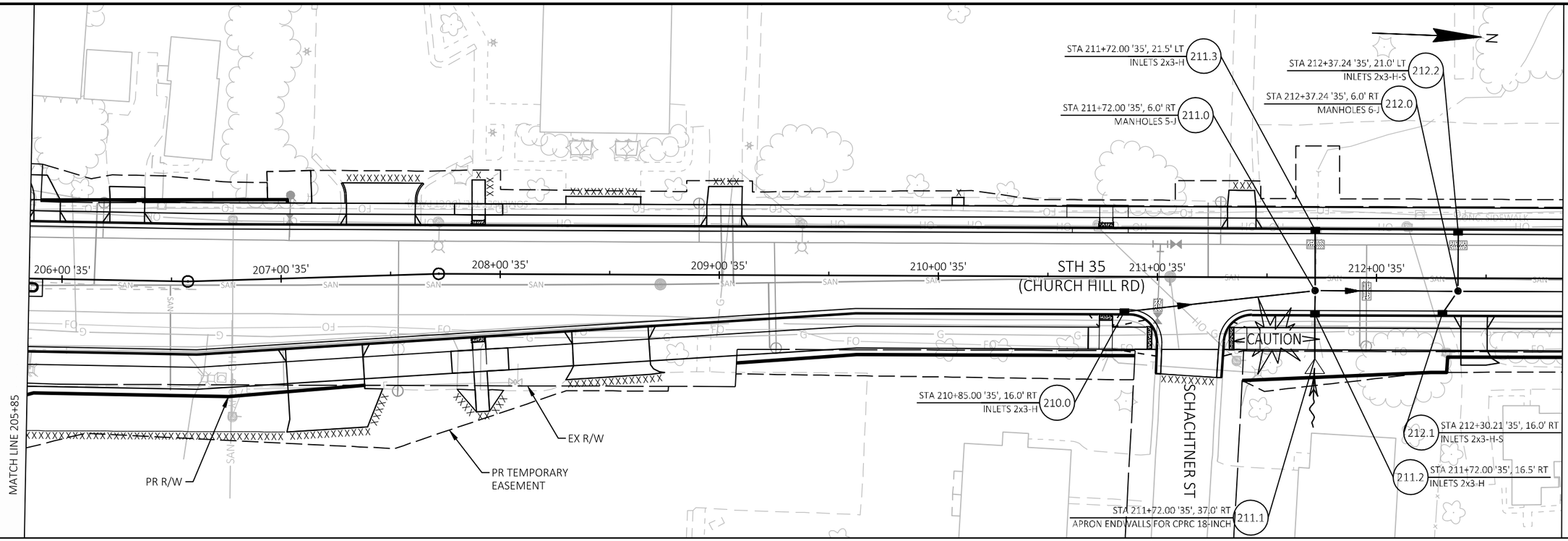


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER STH 35-BUS 64	SHEET 61 E



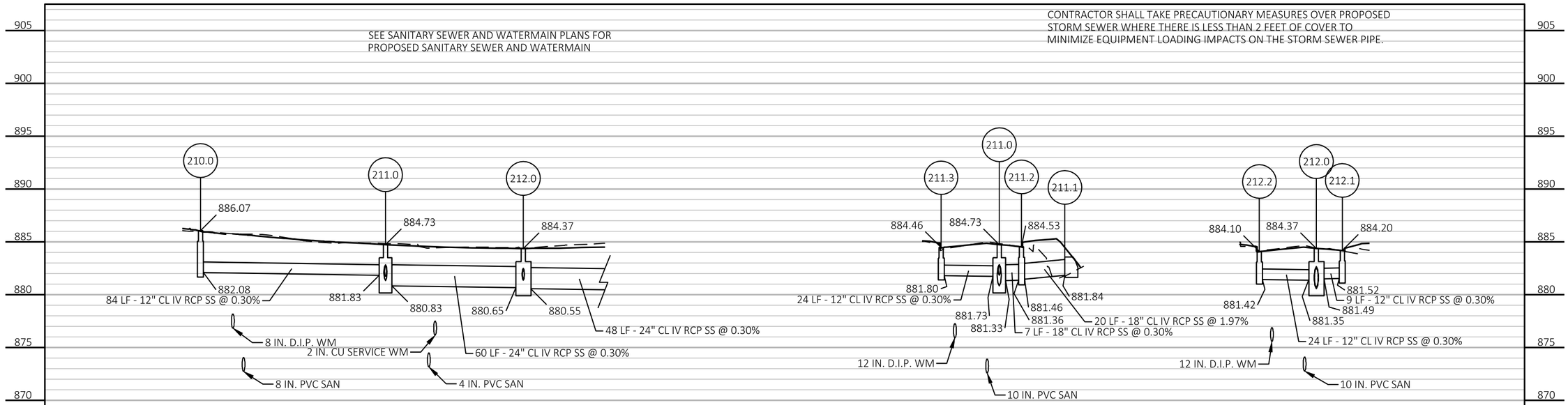


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER STH 35-CHURCH HILL RD	SHEET 62	E

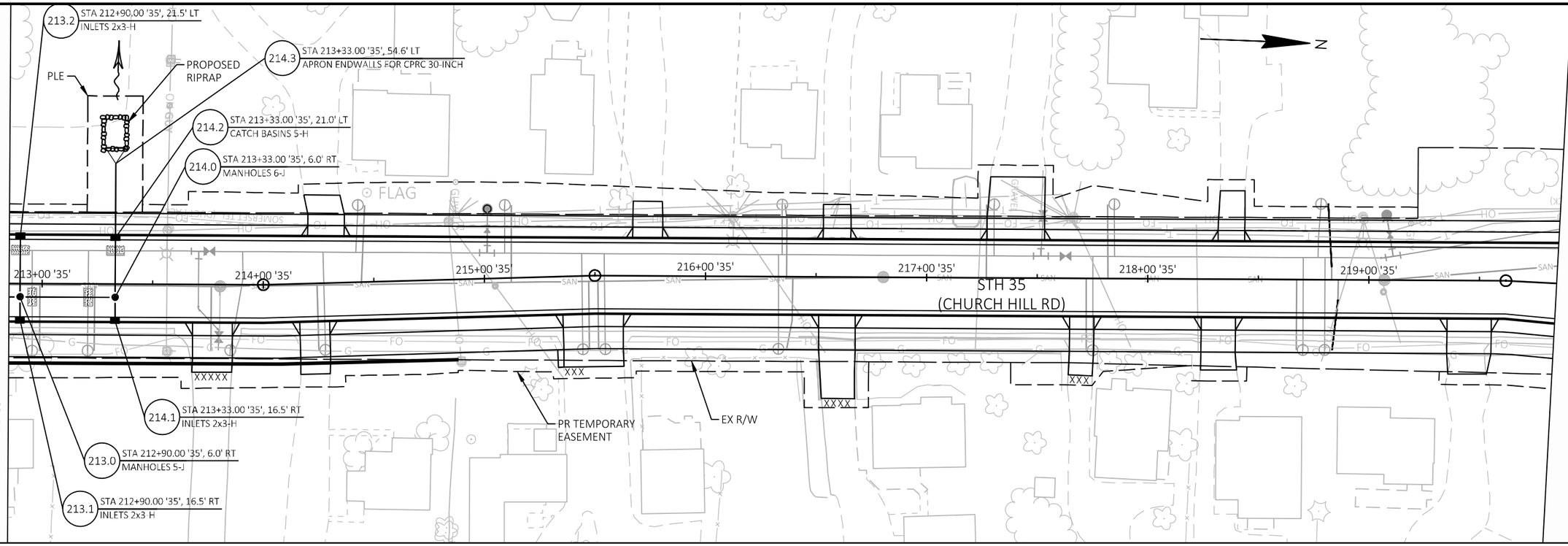


SEE SANITARY SEWER AND WATERMAIN PLANS FOR
PROPOSED SANITARY SEWER AND WATERMAIN

CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES OVER PROPOSED
STORM SEWER WHERE THERE IS LESS THAN 2 FEET OF COVER TO
MINIMIZE EQUIPMENT LOADING IMPACTS ON THE STORM SEWER PIPE.



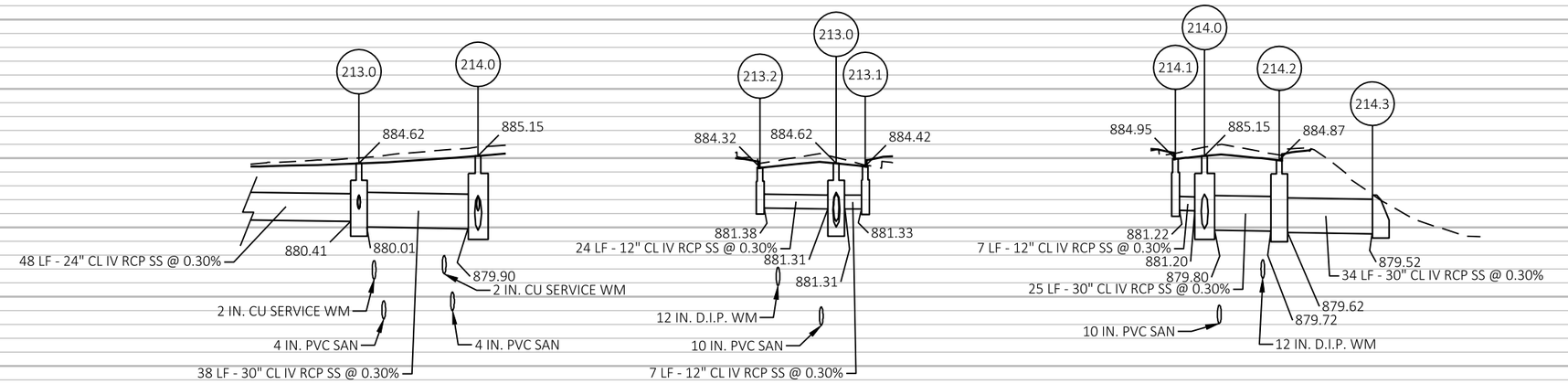
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER STH 35-CHURCH HILL RD	SHEET 63	E



CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES OVER PROPOSED STORM SEWER WHERE THERE IS LESS THAN 2 FEET OF COVER TO MINIMIZE EQUIPMENT LOADING IMPACTS ON THE STORM SEWER PIPE.

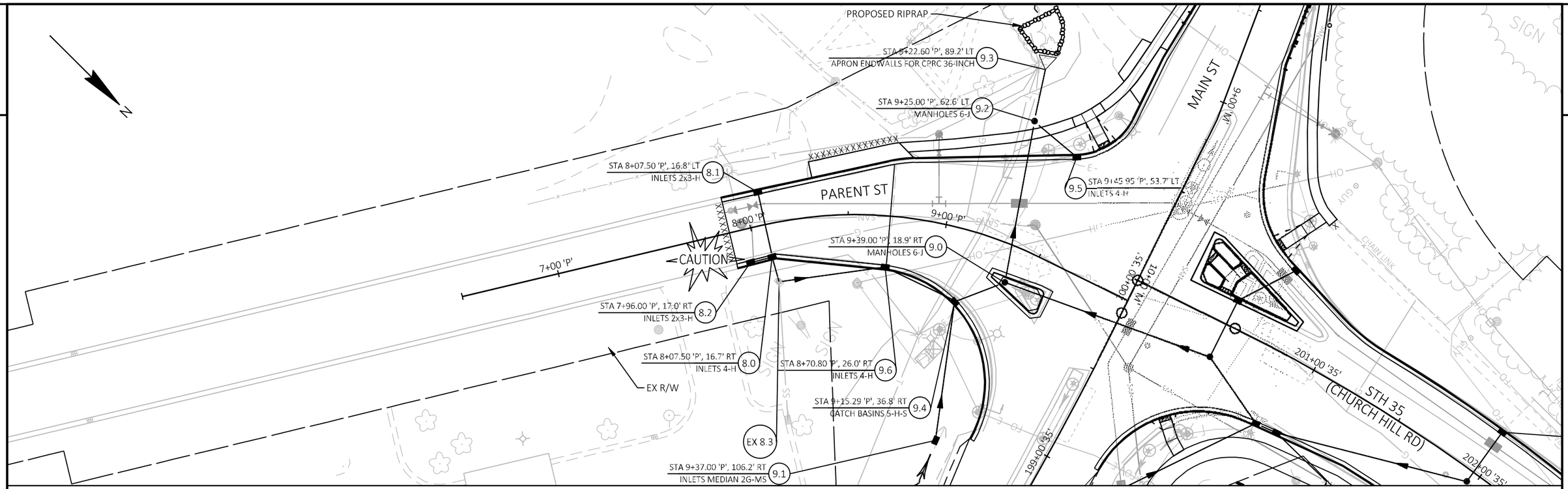
SEE SANITARY SEWER AND WATERMAIN PLANS FOR PROPOSED SANITARY SEWER AND WATERMAIN

CONTRACTOR TO FIELD GRADE AROUND THE END SECTION AND PROVIDE RIPRAP AS SHOWN IN PLANS AND DETAIL.



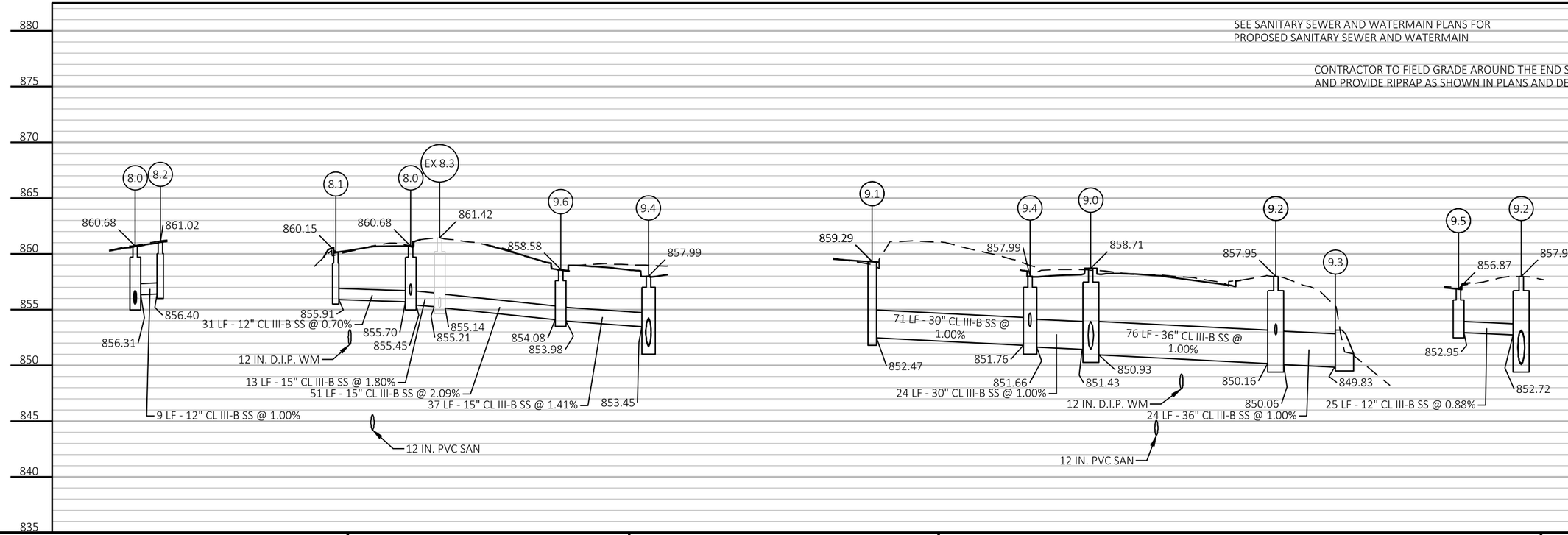
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER STH 35-CHURCH HILL RD	SHEET 64	E

FILE NAME : C:\ONEDRIVE\AECOM\STH 35 - GENERAL\CADD\SHEETS\022500-SS.DWG
LAYOUT NAME - 022509-ss
PLOT DATE : 10/27/2022 9:46 AM PLOT BY : NEEVE, KYLE PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41



SEE SANITARY SEWER AND WATERMAIN PLANS FOR PROPOSED SANITARY SEWER AND WATERMAIN

CONTRACTOR TO FIELD GRADE AROUND THE END SECTION AND PROVIDE RIPRAP AS SHOWN IN PLANS AND DETAIL.

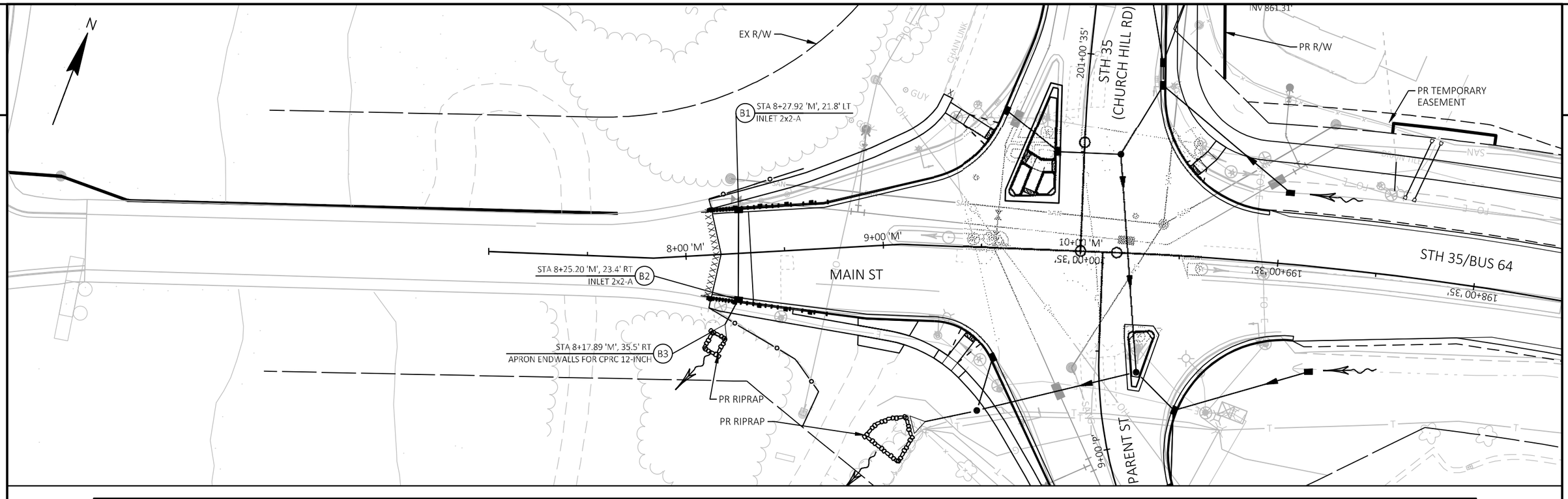


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER PARENT ST	SHEET 65	E

FILE NAME : C:\ONEDRIVE\AECOM\STH 35 - GENERAL\CADD\SHEETS\022500-SS.DWG
LAYOUT NAME - 022511-ss

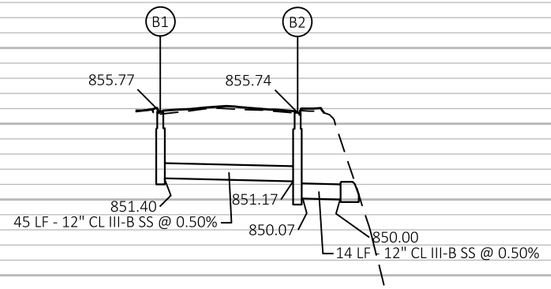
PLOT DATE : 10/27/2022 9:46 AM PLOT BY : NEEVE, KYLE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 41



DESIGNER NOTE: USE CAUTION WHEN INSTALLING GUARDRAIL POST OVER PIPE.

CONTRACTOR TO FIELD GRADE AROUND THE END SECTION AND PROVIDE RIPRAP AS SHOWN IN PLANS AND DETAIL.



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST CROIX	STORM SEWER MAIN ST	SHEET 66 E

FILE NAME : C:\ONEDRIVE\AECOM\STH 35 - GENERAL\CADD\SHEETS\022500-SS.DWG
LAYOUT NAME - 022512-ss

PLOT DATE : 10/31/2022 2:41 PM PLOT BY : NEEVE, KYLE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

110 PARENT

EXISTING WATERMAIN

REMOVE EXISTING BOX AND ABANDON VALVE

REMOVE EXISTING HYDRANT, VALVE, AND LEAD

EXISTING SANITARY

PARENT STREET

115 PARENT

8+00

9+00

10+00

200+00

201+00

CHURCH HILL ROAD

202+00

199+00

STH 35/64

EXISTING RIGHT OF WAY

100 CHURCH HILL

DAIRY QUEEN GRILL & CHILL

2

LEGEND

REMOVE UTILITY : XXXXXX

ABANDON UTILITY : ——

PROTECT EXISTING SIDEWALK FROM INTERSECTION TO STATION 203+25

REMOVE EXISTING SERVICES 1' BEYOND EDGE OF EXISTING SIDEWALK

REMOVE PREVIOUSLY ABANDONED WATERMAIN

REMOVE EXISTING MANHOLE

REMOVE EXISTING SERVICES 1' BEYOND EDGE OF EXISTING SIDEWALK

REMOVE EXISTING MANHOLE

REMOVE EXISTING GATE VALVE AND BOX

REMOVE EXISTING MANHOLE

203+00

204+00

205+00

EXISTING WATERMAIN

REMOVE EXISTING GATE VALVE AND BOX

EXISTING WATERMAIN

REMOVE SERVICES UP TO RIGHT-OF-WAY.

REMOVE EXISTING HYDRANT, VALVE, AND LEAD

KWIK TRIP ENTRANCE

EXISTING SANITARY

EXISTING RIGHT OF WAY

PROJECT NO: 8060-00-72	HWY: STH 35	COUNTY: ST. CROIX	SANITARY SEWER & WATERMAIN REMOVALS	SHEET 67	E

2

2

N

141 CHURCH HILL

EXISTING RIGHT OF WAY

REMOVE EXISTING SERVICES TO RIGHT OF WAY

REMOVE EXISTING MANHOLE

REMOVE EXISTING SERVICES TO RIGHT OF WAY

REMOVE PREVIOUSLY ABANDONED WATERMAIN

REMOVE EXISTING MANHOLE

EXISTING SANITARY

REMOVE EXISTING SERVICES TO RIGHT OF WAY

206+00

207+00

208+00

209+00

210+00

211+00

212+00

CHURCH HILL ROAD

GV

GV

GV

REMOVE EXISTING GATE VALVE AND BOX

EXISTING WATERMAIN

REMOVE EXISTING SERVICES TO RIGHT OF WAY

REMOVE EXISTING GATE VALVE AND BOX

REMOVE EXISTING SERVICES TO RIGHT OF WAY

REMOVE EXISTING SERVICES TO RIGHT OF WAY

REMOVE EXISTING HYDRANT, VALVE, AND LEAD

SAN

SCHACHTNER STREET

402 SCHACHTNER

401 SCHACHTNER

LEGEND

REMOVE UTILITY : XXXXXX

ABANDON UTILITY :

N

213 CHURCH HILL

217 CHURCH HILL

207 CHURCH HILL

REMOVE EXISTING SERVICES TO RIGHT OF WAY

EXISTING WATERMAIN

REMOVE EXISTING GATE VALVE AND BOX

325 CHURCH

EXISTING RIGHT OF WAY

REMOVE EXISTING MANHOLE

REMOVE EXISTING SERVICES TO RIGHT OF WAY

REMOVE EXISTING SERVICES TO RIGHT OF WAY

REMOVE PREVIOUSLY ABANDONED WATERMAIN

EXISTING SANITARY

SAN

212+00

213+00

214+00

215+00

216+00

217+00

218+00

CHURCH HILL ROAD

GV

GV

GV

EXISTING WA

REMOVE EXISTING GATE VALVE AND BOX

EXISTING WATERMAIN

REMOVE EXISTING SERVICES TO RIGHT OF WAY

212 CHURCH HILL

320 CHURCH H

REMOVE EXISTING SERVICES TO RIGHT OF WAY

REMOVE EXISTING HYDRANT, VALVE, AND LEAD

REMOVE EXISTING GATE VALVE AND BOX

218 CHURCH HILL

214 CHURCH HILL

REMOVE EXISTING SERVICES TO RIGHT OF WAY

REMOVE EXISTING GATE VALVE AND BOX

EXISTING RAYMOND STREET WATERMAIN AND SANITARY. REMOVE 20 FEET OF WATERMAIN. IF NEEDED, REMOVE ENOUGH SANITARY MAIN PIPE TO FIT NEW STRUCTURE.

RAYMOND STREET

208 CHURCH HILL

204 CHURCH HILL

PROJECT NO: 8060-00-72	HWY: STH 35	COUNTY: ST. CROIX	SANITARY SEWER & WATERMAIN REMOVALS	SHEET 68	E

FILE NAME : P:\8700S\8780S\8783\08783026\CADD\CONSTRUCTION DOCUMENTS\08783026 REMOVALS WISDOT.DWG
LAYOUT NAME - 2

PLOT DATE : 10/19/2022 3:45 PM PLOT BY : MIKE CINCOTTA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

EXISTING RIGHT OF WAY

333 CHURCH HILL

REMOVE EXISTING SERVICES TO RIGHT OF WAY.

345 CHURCH HILL

N

325 CHURCH HILL

EXISTING WATERMAIN

REMOVE EXISTING MANHOLE

218+00

220+00

221+00

222+00

223+00

224+00

EXISTING SANITARY

REMOVE EXISTING GATE VALVE AND BOX

GV

EXISTING WATERMAIN

REMOVE EXISTING MANHOLE

CHURCH HILL ROAD

REMOVE PREVIOUSLY ABANDONED WATERMAIN

REMOVE EXISTING SERVICES TO RIGHT OF WAY.

20 CHURCH HILL

322 CHURCH HILL

330 CHURCH HILL

LEGEND

REMOVE UTILITY : ·XXXXXX··

ABANDON UTILITY : ——————

REMOVE EXISTING HYDRANT, VALVE, AND LEAD

EXISTING WATERMAIN

REMOVE EXISTING WATERMAIN

N

EXISTING RIGHT OF WAY

CHURCH HILL ROAD

201+00

REMOVE EXISTING BOX & ABANDON VALVE.

GV

REMOVE EXISTING MANHOLE

EXISTING SANITARY

EXISTING WATERMAIN

REMOVE EXISTING MANHOLE

EXISTING SANITARY

REMOVE EXISTING HYDRANT, VALVE, AND LEAD

GV

197+00

198+00

199+00

200+00

10100

STH 35/64

REMOVE EXISTING GATE VALVE AND BOX

GV

EXISTING SANITARY

EXISTING SANITARY

9+00

STH 35/64

EXISTING WATERMAIN

PROJECT NO: 8060-00-72	HWY: STH 35	COUNTY: ST. CROIX	SANITARY SEWER & WATERMAIN REMOVALS	SHEET 69	E

FILE NAME : P:\8700S\8780S\8783\08783026\CADD\CONSTRUCTION DOCUMENTS\08783026 REMOVALS WISDOT.DWG
LAYOUT NAME - 3

PLOT DATE : 10/19/2022 3:45 PM PLOT BY : MIKE CINCOTTA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

N

PROPOSED STORM SEWER

EXISTING SANITARY SEWER

SAN. SEWER MH (48 IN)
STA = 9+41.60 @ 13.77' LT
202

PROVIDE 8 FOOT X 4 FOOT INSULATION FOR STORM SEWER CROSSING

EXISTING RIGHT OF WAY

110 PARENT

CONNECT TO EXISTING SANITARY SEWER. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.

INSTALL NEW HYDRANT
25 LINEAR FEET - 6 INCH DUCTILE IRON PIPE
1 - 6 INCH GATE VALVE

EXISTING WATERMAIN

3 LINEAR FEET - 6 INCH DUCTILE IRON PIPE
225 LINEAR FEET - 8 INCH DUCTILE IRON PIPE
1 - 8 INCH 11.25 DEGREE BEND
1 - 8 INCH 22.5 DEGREE BEND
4 - 8 INCH 45 DEGREE BENDS (FOR VERTICAL OFFSET)
1 - 8 INCH X 6 INCH REDUCER
1 - 8 INCH GATE VALVE WITH BOX
1 - 6 INCH GATE VALVE WITH BOX
1 - CONNECT TO EXISTING WATERMAIN

PROVIDE 8 FOOT X 4 FOOT INSULATION FOR STORM SEWER CROSSING

CONNECT TO EXISTING WATERMAIN. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.

EXISTING 6" WATERMAIN

EXISTING 8" SANITARY SEWER

EXISTING STORM SEWER

115 PARENT

PARENT STREET

CAUTION GAS

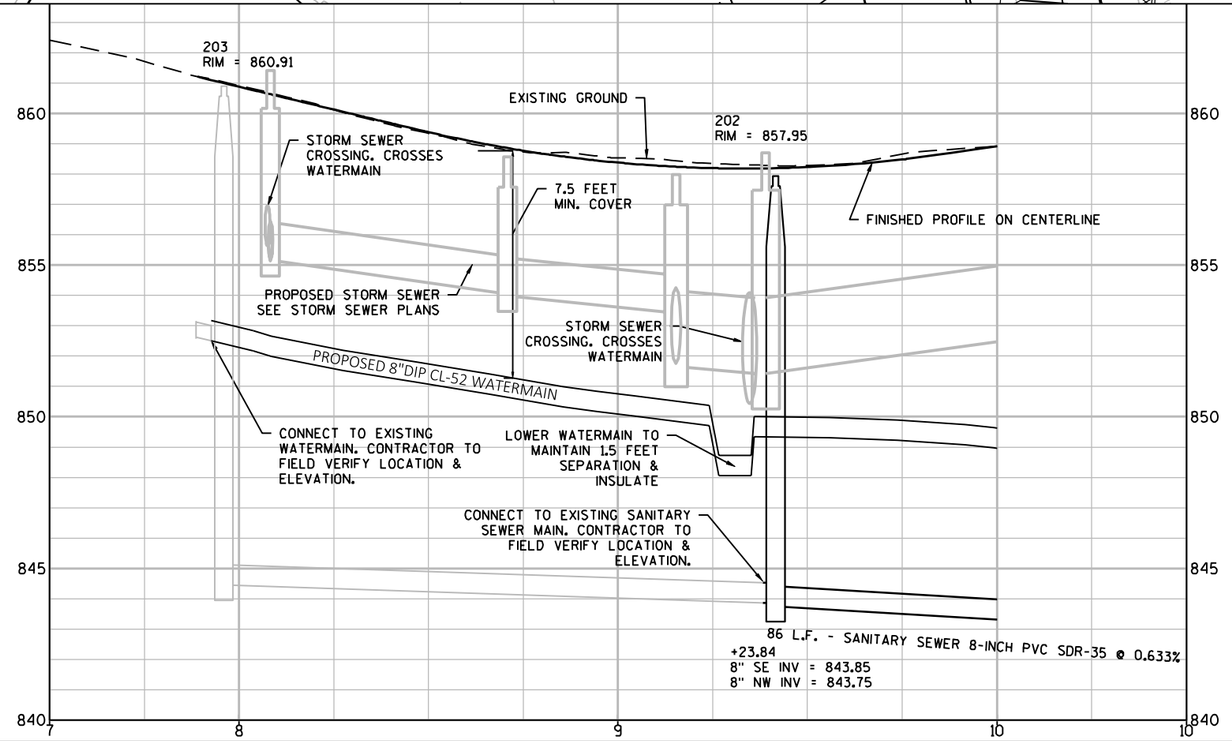
CHURCH HILL ROAD

100 CHURCH HILL

STH 35/64

201 SAN. SEWER MH, TYPE 1
STA = 199+58.78 @ 15.37' RT
RIM = 859.98

8+00 9+00 10+00 200+00 201+00



PROJECT NO: 8060-00-72	HWY: STH 35	COUNTY: ST. CROIX	SANITARY SEWER & WATERMAIN	SHEET 70	E

NOTES
1. EXISTING SANITARY & WATER SERVICE LOCATIONS ASSUMED
2. REMOVE EXISTING SERVICES TO RIGHT-OF-WAY OR TO CURB STOP IF BEFORE RIGHT-OF-WAY

PROVIDE 8 FOOT X 4 FOOT INSULATION FOR STORM SEWER CROSSING

7 LINEAR FEET - 8 INCH DUCTILE IRON PIPE
603 LINEAR FEET - 12 INCH DUCTILE IRON PIPE
2 - 12 INCH GATE VALVE
1 - 8 INCH GATE VALVE
3 - 11.25 DEGREE BEND
1 - 12 INCH X 4 INCH TEE
2 - 12 INCH X 6 INCH TEE
1 - 12INCH X 12 INCH CROSS
1 - 12INCH X 8 INCH REDUCER

EXISTING SANITARY SEWER

EXISTING WATERMAIN

CAUTION GAS

EXISTING STORM SEWER

CHURCH HILL ROAD

201 SAN. SEWER MH, TYPE 1
STA = 200+15.21 @ 41.43' RT
RIM = 859.98

89 LINEAR FEET - 4 INCH DUCTILE IRON PIPE
1 - 4 INCH GATE VALVE

34 LINEAR FEET - 6 INCH PVC SCHEDULE 40
1 - 10 INCH X 6 INCH WYE
1 - 6 INCH 11.25 DEGREE BEND

100 CHURCH HILL

102 LINEAR FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE
1 - 4 INCH 11.25 DEGREE BEND
1 - 4 INCH CLEAN OUT AT BEND

PROVIDE 8 FOOT X 4 FOOT INSULATION FOR STORM SEWER CROSSING

BURY WATER SERVICE AT 8 FOOT DEPTH AND PROVIDE 8 FOOT X 4 FOOT INSULATION FOR STORM SEWER CROSSING

EXISTING RIGHT OF WAY

BURY HYDRANT LEAD AT 8 FOOT DEPTH AND PROVIDE 8 FOOT X 4 FOOT INSULATION FOR STORM SEWER CROSSING

INSTALL NEW HYDRANT
63 LINEAR FEET - 6 INCH DUCTILE IRON PIPE
1 - 6 INCH GATE VALVE

117 CHURCH HILL

71 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

200 SAN. SEWER MH, TYPE 1
STA = 203+81.15 @ 5.55' RT
RIM = 874.35

PREVIOUSLY ABANDONED WATERMAIN

119 CHURCH HILL

18 LINEAR FEET - 2 INCH COPPER PIPE
1 - 2 INCH CORPORATION STOP
1 - 2 INCH CURB STOP

41 LINEAR FEET - 4 INCH PVC SCHEDULE 40
5 VERTICAL FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

CAUTION GAS

PROVIDE 8 FOOT X 4 FOOT INSULATION FOR STORM SEWER CROSSING

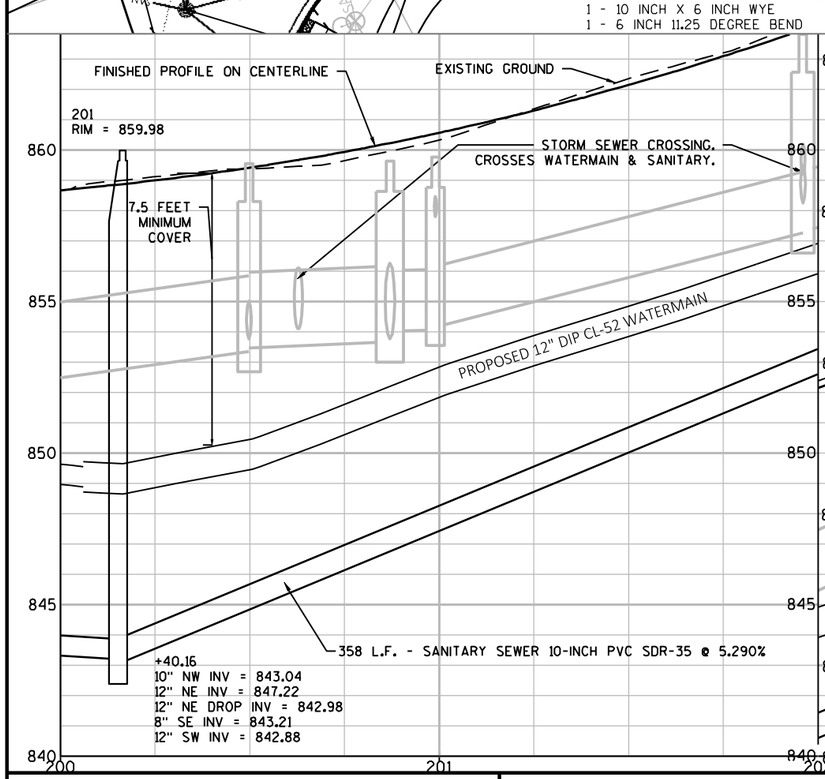
90 LINEAR FEET - 6 INCH DUCTILE IRON PIPE
1 - 6 INCH GATE VALVE
2 - 6 INCH 45 DEGREE BENDS
1 - CONNECT TO EXISTING

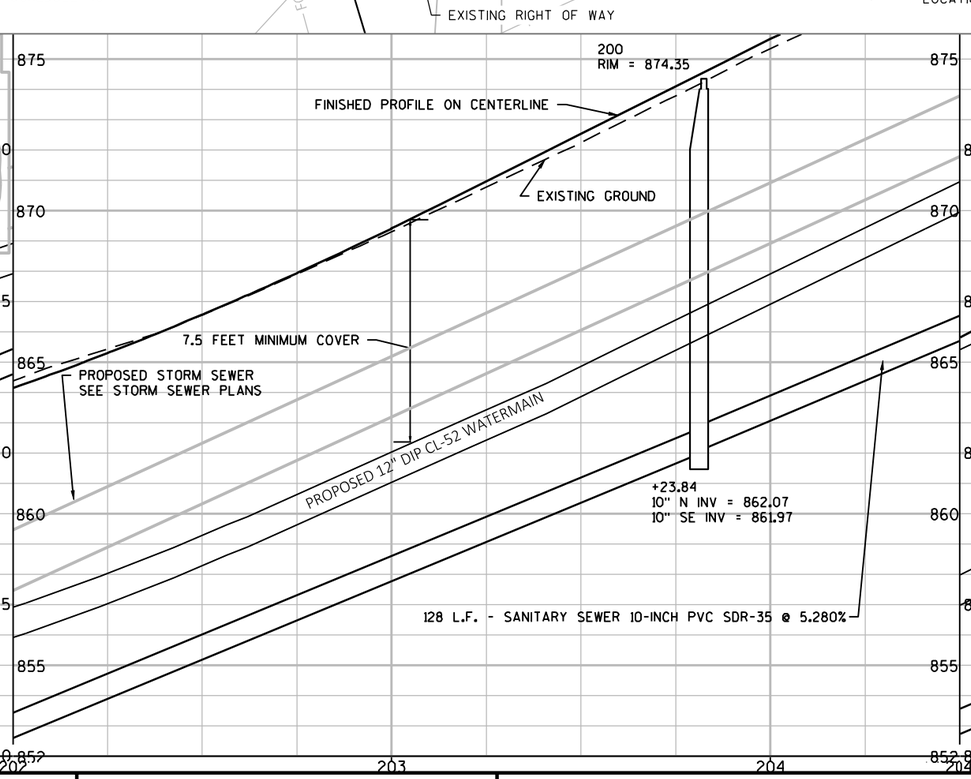
KWIK TRIP ENTRANCE

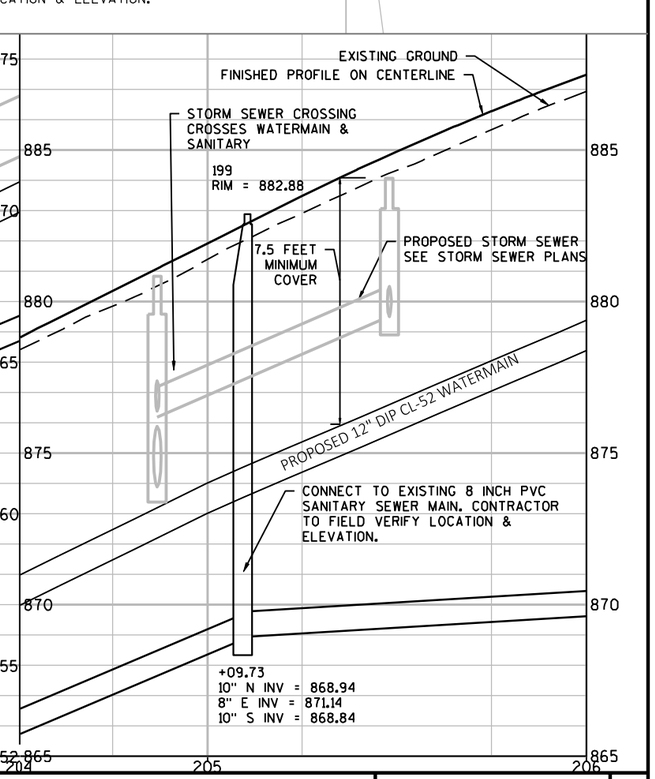
CONNECT TO EXISTING WATERMAIN. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.

199 SAN. SEWER MH, TYPE 1
STA = 205+09.32 @ 4.62' RT
RIM = 882.88

CONNECT TO EXISTING 8 INCH PVC SANITARY SEWER. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.







PROJECT NO: 8060-00-72	HWY: STH 35	COUNTY: ST. CROIX	SANITARY SEWER & WATERMAIN	SHEET 71	E

FILE NAME : P:\8700S\8780S\8783\08783026\CADD\CONSTRUCTION DOCUMENTS\08783026 PLAN-PROFILE WISDOT.DWG
LAYOUT NAME - 2
PLOT DATE : 10/27/2022 12:07 PM
PLOT BY : MIKE CINCOTTA
PLOT NAME :
PLOT SCALE : 1 INCH:40 FEET
WISDOT/CADDS SHEET 42

38 LINEAR FEET - 4 INCH PVC SCHEDULE 40
6 VERTICAL FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

16 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

INSTALL NEW HYDRANT
20 LINEAR FEET - 6 INCH DUCTILE IRON PIPE
1 - 6 INCH GATE VALVE

600 LINEAR FEET - 12 INCH DUCTILE IRON PIPE
1 - 12 INCH GATE VALVE
1 - 12 INCH X 6 INCH TEE
1 - 12 INCH X 8 INCH TEE

141 CHURCH HILL

PREVIOUSLY ABANDONED WATERMAIN

18 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

36 LINEAR FEET - 4 INCH PVC SCHEDULE 40
7.5 VERTICAL FOOT - 4 INCH PVC RISER
1 - 10 INCH X 4 INCH WYE

19 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

34 LINEAR FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

PROVIDE 8 FOOT X 4 FOOT INSULATION FOR STORM SEWER CROSSING

SAN. SEWER MH (48 IN) 197
STA = 211+05.90 ℄ 0.03' RT

EXISTING SANITARY SEWER

206+00 207+00 208+00 209+00 210+00 211+00 212+00

CAUTION GAS

EXISTING WATERMAIN

CHURCH HILL ROAD

SAN. SEWER MH (48 IN) 198
STA = 208+73.14 ℄ 4.37' RT

EXISTING RIGHT OF WAY

CAUTION GAS

PROVIDE 8 FOOT X 4 FOOT INSULATION FOR STORM SEWER CROSSING

CONNECT TO EXISTING WATERMAIN. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.

CONNECT TO EXISTING SANITARY SEWER. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.

PROPOSED STORM SEWER
401 SCHACHTNER

48 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

34 LINEAR FEET - 8 INCH DUCTILE IRON PIPE
1 - 8 INCH GATE VALVE
1 - CONNECT TO EXISTING WATERMAIN

402 SCHACHTNER

SCHACHTNER STREET

30 LINEAR FEET - 4 INCH PVC SCHEDULE 40
7 VERTICAL FOOT - 4 INCH PVC RISER
1 - 10 INCH X 4 INCH WYE

30 LINEAR FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

46 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

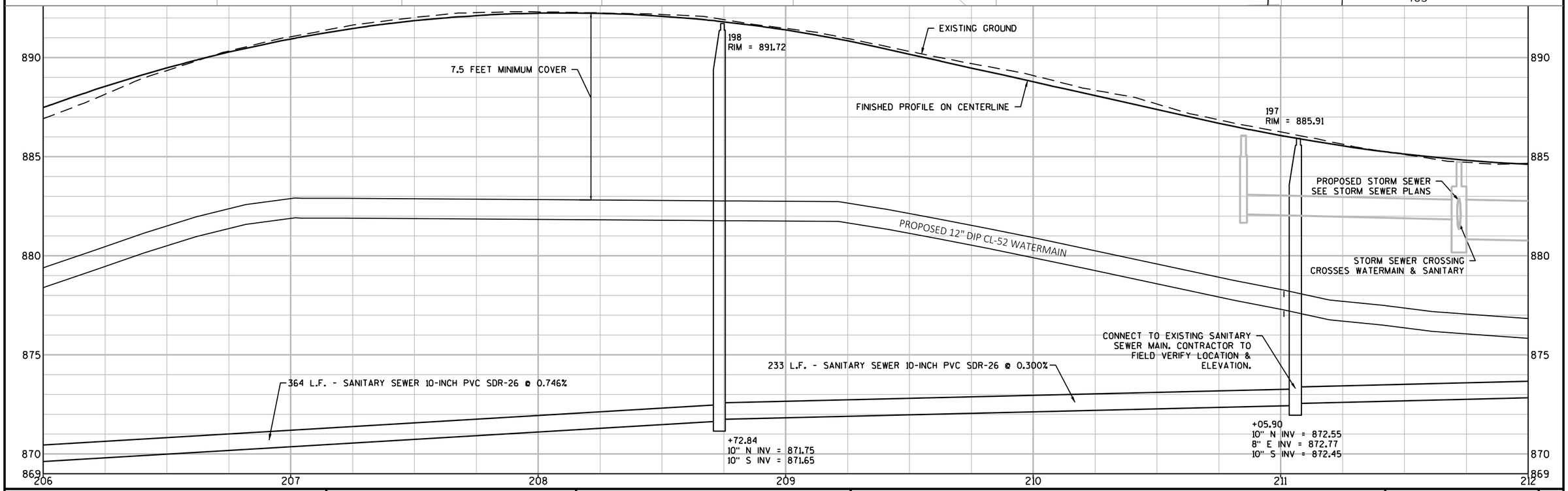
403

68 LINEAR FEET - 4 INCH DUCTILE IRON PIPE
1 - 12 INCH X 4 INCH TEE
1 - 4 INCH GATE VALVE

140 CHURCH HILL

48 LINEAR FEET - 6 INCH PVC SCHEDULE 40
7 VERTICAL FEET - 6 INCH PVC SCHEDULE 40
1 - 10 INCH X 6 INCH WYE

NOTES
1. EXISTING SANITARY & WATER SERVICE LOCATIONS ASSUMED
2. REMOVE EXISTING SERVICES TO RIGHT-OF-WAY OR TO CURB STOP IF BEFORE RIGHT-OF-WAY



PROJECT NO: 8060-00-72	HWY: STH 35	COUNTY: ST. CROIX	SANITARY SEWER & WATERMAIN	SHEET 72	E

NOTES
1. EXISTING SANITARY & WATER SERVICE LOCATIONS ASSUMED
2. REMOVE EXISTING SERVICES TO RIGHT-OF-WAY OR TO CURB STOP IF BEFORE RIGHT-OF-WAY

N

INSTALL NEW HYDRANT
19 LINEAR FEET - 6 INCH DUCTILE IRON PIPE
1 - 6 INCH GATE VALVE

600 LINEAR FEET - 12 INCH DUCTILE IRON PIPE
2 - 12 INCH GATE VALVE
1 - 12 INCH X 6 INCH TEE
2 - 12 INCH X 8 INCH TEE

PROVIDE 8 FOOT X 4 FOOT INSULATION FOR STORM SEWER CROSSING

36 LINEAR FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

21 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

207 CHURCH HILL

213 CHURCH HILL

33 LINEAR FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE
1 - 4 INCH 11.25 DEGREE BEND
1 - 4 INCH CLEAN OUT AT BEND

23 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

22 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

35 LINEAR FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

PREVIOUSLY ABANDONED WATERMAIN

217 CHURCH HILL

24 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

34 LINEAR FEET - 4 INCH PVC SCHEDULE 40
6 VERTICAL FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

17 LINEAR FEET - 8 INCH DUCTILE IRON PIPE
1 - 8 INCH GATE VALVE
1 - CONNECT TO EXISTING WATERMAIN

23 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

33 LINEAR FEET - 4 INCH PVC SCHEDULE 40
5 VERTICAL FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

325 CHURCH

30 LINEAR FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

46 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

PROVIDE 8 FOOT X 4 FOOT INSULATION FOR STORM SEWER CROSSING

191 SAN. SEWER MH, TYPE 1
STA = 213+80.40 @ 0.83' RT
RIM = 886.17

212+00
213+00
214+00
215+00
216+00
217+00
218+00

CAUTION GAS

CHURCH HILL ROAD

RAYMOND STREET

EXISTING SANITARY SEWER

190 SAN. SEWER MH, TYPE 1
STA = 216+80.34 @ 5.00' LT
RIM = 897.15

33 LINEAR FEET - 4 INCH PVC SCHEDULE 40
6 VERTICAL FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

44 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

212

EXISTING WATERMAIN

EXISTING RIGHT OF WAY

29 LINEAR FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

31 LINEAR FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

32 LINEAR FEET - 4 INCH PVC SCHEDULE 40
3.5 VERTICAL FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE
1 - 4 INCH 11.25 DEGREE BEND
1 - 4 INCH CLEAN OUT AT BEND

42 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

43 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

45 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

PROPOSED STORM SEWER

45 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

30 LINEAR FEET - 4 INCH PVC SCHEDULE 40
1 - 10 INCH X 4 INCH WYE

43 LINEAR FEET - 8 INCH DUCTILE IRON PIPE
1 - 8 INCH GATE VALVE
2 - 8 INCH 45 DEGREE BEND
1 - CONNECT TO EXISTING WATERMAIN

CONNECT TO EXISTING WATERMAIN. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.

CONNECT TO EXISTING SANITARY SEWER. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.

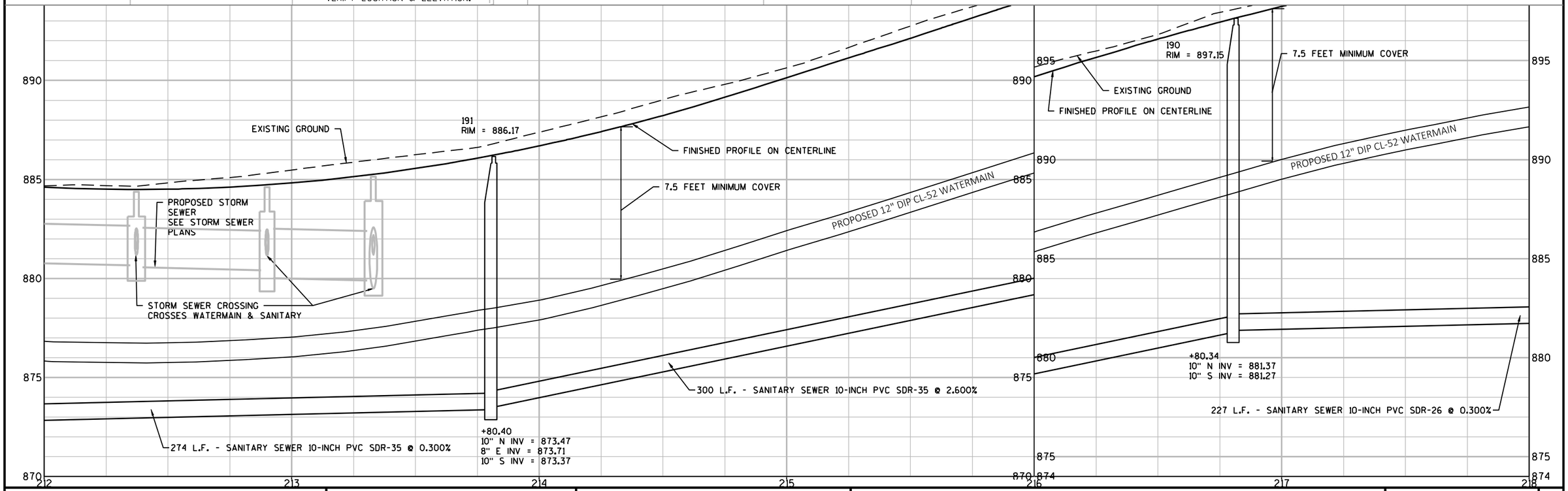
204 CHURCH HILL

208 CHURCH HILL

214 CHURCH HILL

218 CHURCH HILL

320 CHURCH HILL



PROJECT NO: 8060-00-72	HWY: STH 35	COUNTY: ST. CROIX	SANITARY SEWER & WATERMAIN	SHEET 73	E

FILE NAME : P:\8700S\8780S\8783\08783026\CADD\CONSTRUCTION DOCUMENTS\08783026 PLAN-PROFILE WISDOT.DWG
LAYOUT NAME - 4
PLOT DATE : 10/27/2022 12:10 PM
PLOT BY : MIKE CINCOTTA
PLOT NAME :
PLOT SCALE : 1 INCH:40 FEET

INSTALL NEW HYDRANT
18 LINEAR FEET - 6 INCH DUCTILE IRON PIPE
1 - 6 INCH GATE VALVE

34 LINEAR FEET - 4 INCH PVC SCHEDULE 40
7.5 VERTICAL FEET - 4 INCH PVC RISER
1 - 10 INCH X 4 INCH WYE

24 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

325 CHURCH HILL

EXISTING WATERMAIN

EXISTING SANITARY SEWER

28 LINEAR FEET - 2 INCH COPPER PIPE
1 - 2 INCH CORPORATION STOP
1 - 2 INCH CURB STOP

51 LINEAR FEET - 4 INCH PVC SCHEDULE 40
7 VERTICAL FEET - 4 INCH PVC RISER
1 - 10 INCH X 4 INCH WYE
1 - 4 INCH 11.25 DEGREE BEND
1 - 4 INCH CLEAN OUT AT BEND

376 LINEAR FEET - 12 INCH DUCTILE IRON PIPE
1 - 12 INCH GATE VALVE
1 - 12 INCH X 6 INCH TEE
1 - 12 INCH X 8 INCH TEE
2 - 12 INCH 11 DEGREE BEND
1 - CONNECT TO EXISTING

CONNECT TO EXISTING WATERMAIN. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.

EXISTING RIGHT OF WAY

345 CHURCH HILL

333 CHURCH HILL

CAUTION

EXISTING 12 INCH WATERMAIN

EXISTING 10 INCH SANITARY SEWER

218+00 219+00 220+00 221+00 222+00 223+00 224

CHURCH HILL ROAD

CONNECT TO EXISTING SANITARY SEWER. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.

CAUTION GAS

PREVIOUSLY ABANDONED WATERMAIN

188 SAN. SEWER MH, TYPE 1
STA = 221+75.79 @ 33.82' LT
RIM = 901.48

189 SAN. SEWER MH, TYPE 1
STA = 219+06.91 @ 5.00' LT
RIM = 902.11

330 CHURCH HILL

32 LINEAR FEET - 4 INCH PVC SCHEDULE 40
7.5 VERTICAL FEET - 4 INCH PVC RISER
1 - 10 INCH X 4 INCH WYE

42 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

42 LINEAR FEET - 1 INCH COPPER PIPE
1 - 1 INCH CORPORATION STOP
1 - 1 INCH CURB STOP

32 LINEAR FEET - 4 INCH PVC SCHEDULE 40
7.5 VERTICAL FEET - 4 INCH PVC RISER
1 - 10 INCH X 4 INCH WYE

65 LINEAR FEET - 8 INCH DUCTILE IRON PIPE
1 - 8 INCH GATE VALVE
1 - 8 INCH 11.25 DEGREE BEND
1 - CONNECT TO EXISTING

CONNECT TO EXISTING WATERMAIN. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.

EXISTING 8 INCH WATERMAIN

320 CHURCH HILL

322 CHURCH HILL

NOTES
1. EXISTING SANITARY & WATER SERVICE LOCATIONS ASSUMED
2. REMOVE EXISTING SERVICES TO RIGHT-OF-WAY OR TO CURB STOP IF BEFORE RIGHT-OF-WAY

N

189
RIM = 902.11

7.5 FEET MINIMUM COVER

188
RIM = 901.48

EXISTING GROUND

FINISHED PROFILE ON CENTERLINE

CONNECT TO EXISTING WATER MAIN. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.

PROPOSED 12" DIP CL-52 WATERMAIN

EXISTING 12" DIP WATERMAIN

CONNECT TO EXISTING SANITARY SEWER MAIN. CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION.

EXISTING 10" SANITARY SEWER

+06.53
10" NW INV = 882.15
10" S INV = 882.05

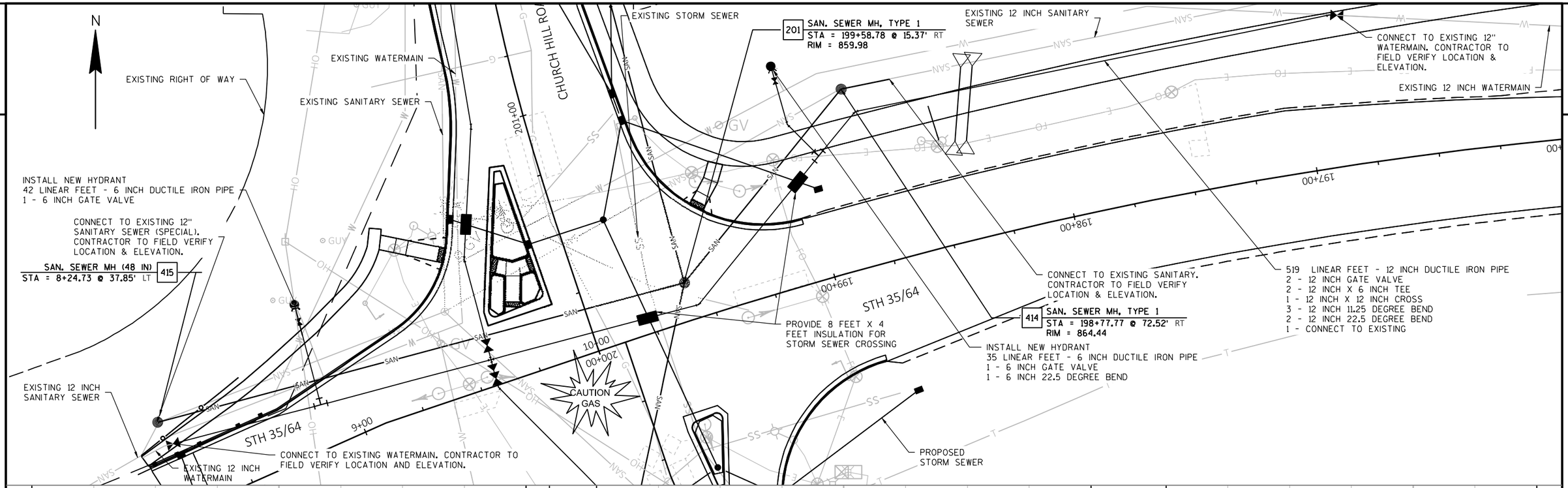
271 L.F. - SANITARY SEWER 10-INCH PVC SDR-26 @ 0.300%

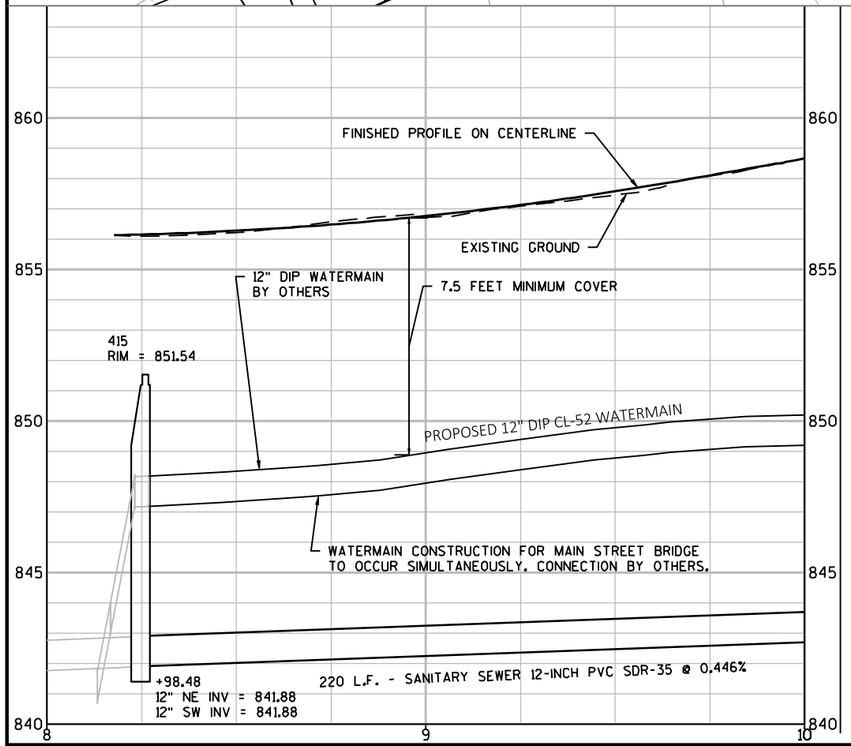
+00.33
10" N INV = 883.06
10" SE INV = 882.96

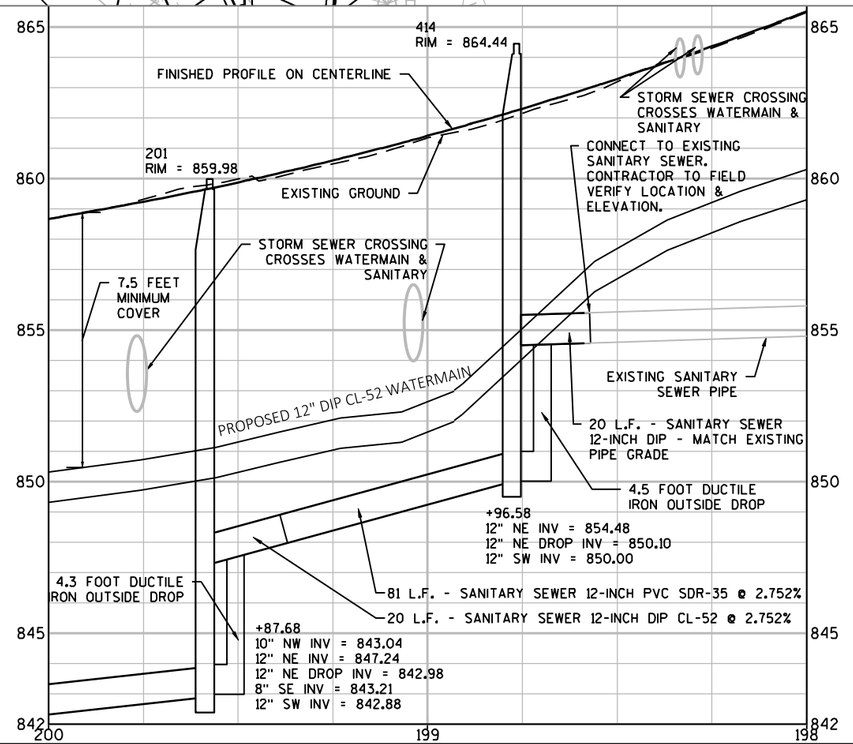
900 895 890 885 880 879

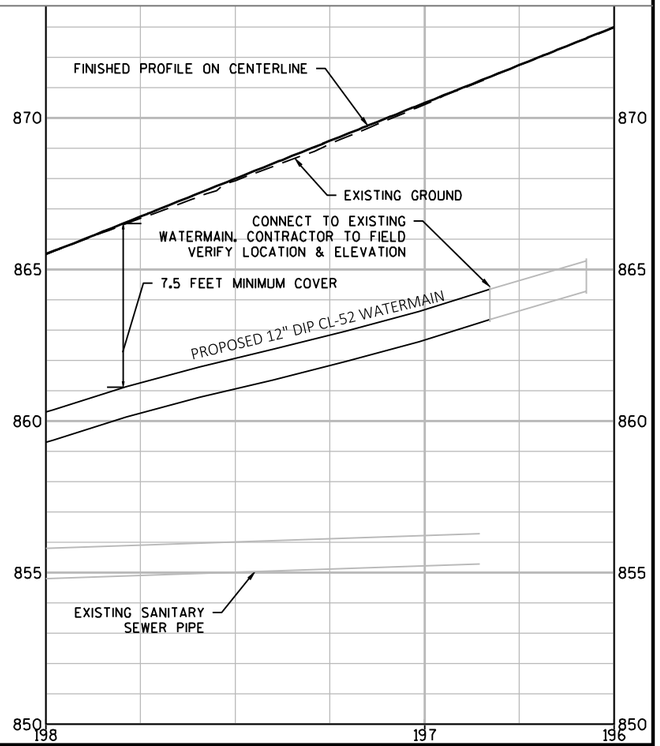
218 219 220 221 222 223 224

PROJECT NO: 8060-00-72	HWY: STH 35	COUNTY: ST. CROIX	SANITARY SEWER & WATERMAIN	SHEET 74	E









PROJECT NO: 8060-00-72	HWY: STH 35	COUNTY: ST. CROIX	SANITARY SEWER & WATERMAIN	SHEET 75	E

2

DO NOT ENTER
TO REMAIN *

TO REMAIN *

SIGN ON EXISTING TRAFFIC SIGNAL

ONE WAY
TO REMAIN *

DO NOT ENTER
REMOVE

SOUTH WEST 35 64
REMOVE REMOVE

WRONG WAY
REMOVE

New Richmond
Stillwater
Hudson
REMOVE

REMOVE

LEFT TURN YIELD ON FLASHING YELLOW ARROW
REMOVE

REMOVE

STOP
REMOVE

159+00

SIGN ON EXISTING TRAFFIC SIGNAL

160+00

TO REMAIN *

DIVIDED HIGHWAY
REMOVE

161+00

162+00

163+00

164+00

165+00

166

MATCH LINE STA. 166+00

STH 35/BUS 64

ONE WAY
TO REMAIN *

SIGN ON EXISTING TRAFFIC SIGNAL

CTH C

ONE WAY
TO REMAIN *

STOP
TO REMAIN *

DO NOT ENTER
TO REMAIN *

STOP
TO REMAIN *

COUNTY C
REMOVE

NORTH BUSINESS 35 64
REMOVE REMOVE

SPEED LIMIT 45
REMOVE

Cedar Lake Speedway
REMOVE

N

2

SIGNING LEGEND

EXISTING SIGN MOUNTED ON POST(S)

* EXISTING SIGN ON TRAFFIC SIGNAL OR LIGHT POLE

REMOVE = REMOVING SIGNS TYPE II & REMOVING SMALL SIGN SUPPORTS

NORTH SOUTH WEST 64 35 64
REMOVE REMOVE REMOVE

REMOVE

REMOVE

180TH AVE
HWY 35
(TO REMAIN, BY OTHERS)

STOP
REMOVE

JCT 64 END BUSINESS 64 JCT COUNTY C
REMOVE REMOVE REMOVE

N

180TH AVE

MATCH LINE STA. 166+00

167+00

168+00

169+00

170+00

171+00

172+00

173

MATCH LINE STA. 173+00

STH 35/BUS 64

REMOVE

WRONG WAY
REMOVE

REMOVE

REMOVE

DO NOT ENTER
REMOVE

SIGN

LAGRANDEUR RD

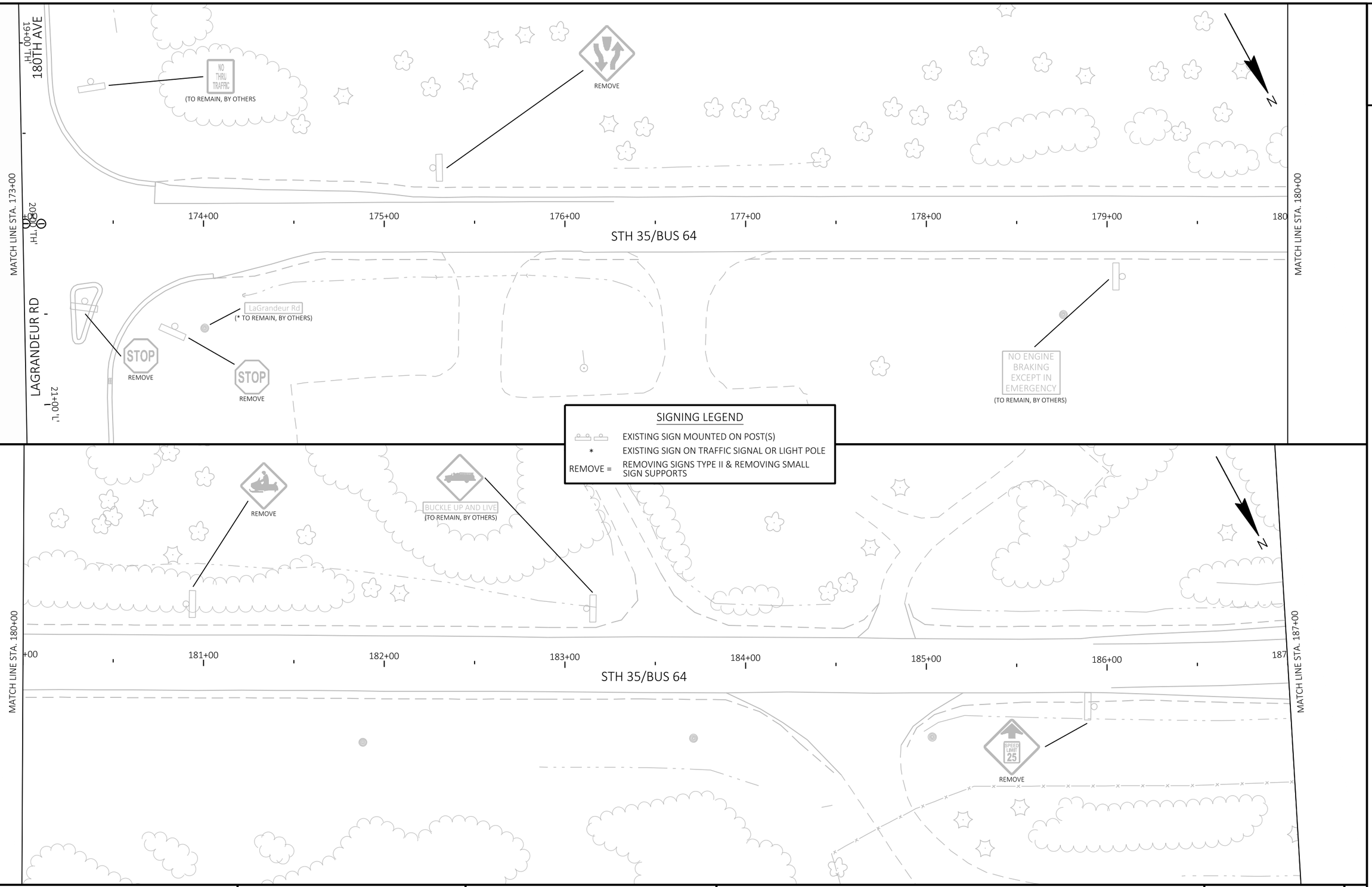
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	EXISTING SIGNING	SHEET 76	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\023201_SR.DWG
LAYOUT NAME - 023201-sr

PLOT DATE : 10/25/2022 12:03 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	EXISTING SIGNING	SHEET 77	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\023201_SR.DWG
LAYOUT NAME - 023202-sr

PLOT DATE : 10/25/2022 12:04 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

MATCH LINE STA. 187+00

STH 35/BUS 64

188+00

189+00

190+00

191+00

192+00

193+00

STH 35/BUS 64

194

MATCH LINE STA. 194+00

N

SPEED LIMIT 45 REMOVE

JCT COUNTY VV REMOVE

STOP REMOVE

BUSINESS 64 NORTH 35 REMOVE REMOVE

JCT COUNTY VV REMOVE

SPEED LIMIT 25 REMOVE

SIGNING LEGEND

EXISTING SIGN MOUNTED ON POST(S)

* EXISTING SIGN ON TRAFFIC SIGNAL OR LIGHT POLE

REMOVE = REMOVING SIGNS TYPE II & REMOVING SMALL SIGN SUPPORTS

SOUTH BUSINESS 35 64 REMOVE REMOVE

SPEED LIMIT 25 REMOVE

STOP RIGHT TURNS OBEY THIS SIGN REMOVE *

SPEED LIMIT 25 REMOVE

NO PARKING ANY TIME REMOVE *

PARENT ST

9+00 'P'

DIVIDED HIGHWAY REMOVE *

DO NOT ENTER REMOVE

ONE WAY REMOVE *

EMERGENCY VEHICLES ONLY (TO REMAIN, BY OTHERS)

N

NO PARKING ANY TIME REMOVE

NO PARKING ANY TIME REMOVE

NO PARKING ANY TIME REMOVE

REMOVE

ONE WAY REMOVE *

REMOVE *

STOP REMOVE *

MAIN STREET

MATCH LINE STA. 194+00

195+00

196+00

197+00

STH 35/BUS 64

SIGNS ON EXISTING LIGHT POLE

198+00

199+00

200+00

10+00 'M'

9+00 'M'

SPEED LIMIT 25 REMOVE *

NO PARKING ANY TIME REMOVE

NORTH 35 REMOVE

STOP REMOVE

DIVIDED HIGHWAY REMOVE *

RIGHT TURNS OBEY THIS SIGN REMOVE *

LEFT TURN LANE REMOVE *

Hudson

Osceola

REMOVE

WRONG WAY REMOVE

NO PARKING ANY TIME REMOVE

ONE WAY REMOVE *

DO NOT ENTER REMOVE *

STH 35 (CHURCH HILL RD)

201+00

SOUTH BUSINESS 35 64 COUNTY VV

REMOVE REMOVE REMOVE

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	EXISTING SIGNING	SHEET 78	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\023201_SR.DWG
LAYOUT NAME - 023203-sr

PLOT DATE : 10/25/2022 12:04 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

2

MAIN STREET

PARENT STREET

STH 35
(CHURCH HILL RD)

CHURCH HILL RD

SCHACHTNER ST

KWIK TRIP ENTRANCE

CHAIN LINK

CONC. SIDEWALK

MATCH LINE STA. 206+00

MATCH LINE STA. 213+00

REMOVE AND SALVAGE EXISTING TEMPORARY BASE MOUNT, PADDLES AND OBJECT MARKERS SIGNS.

REMOVE

ATV / UTV ROUTE & RIGHT ARROW
(TO REMAIN, BY OTHERS)

* SNOW * EMERGENCY ROUTE
(TO REMAIN, BY OTHERS)

BUSINESS 64 | SOUTH 35 | NORTH 35

SOUTH BUSINESS 35 64

COUNTY VV

New Richmond

END SCHOOL ZONE

NO PARKING ANY TIME

SPEED LIMIT 30

SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT

AHEAD FINES HIGHER

ONLY

STOP
(MOVE, BY OTHERS)

CHURCH PARKING ONLY
(MOVE, BY OTHERS)

EXIT ONLY
CHURCH PARKING ONLY
(MOVE, BY OTHERS)

CHURCH HILL ROAD
SCHACHTNER ST
(MOVE, BY OTHERS)

JCT COUNTY VV

SOMERSET COMMUNITY FOOD PANTRY
TO REMAIN

201+00 202+00 203+00 204+00 205+00 206+00 207+00 208+00 209+00 210+00 211+00 212+00 213+00

9+00 'W' 10+00 'W' 11+00 'S' 9+00 'P'

N

SIGNING LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- * EXISTING SIGN ON TRAFFIC SIGNAL OR LIGHT POLE
- REMOVE = REMOVING SIGNS TYPE II & REMOVING SMALL SIGN SUPPORTS

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	EXISTING SIGNING	SHEET 79 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\023201_SR.DWG
LAYOUT NAME - 023204-sr

PLOT DATE : 10/25/2022 12:04 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

AHEAD
FINES HIGHER
REMOVE

FLAG

GRAVEL

SPEED LIMIT 30
REMOVE

N

MATCH LINE STA. 213+00

+00 214+00 215+00 216+00 217+00 218+00 219+00 220

STH 35

CHURCH HILL RD

MATCH LINE STA. 220+00

SIGNING LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
*	EXISTING SIGN ON TRAFFIC SIGNAL OR LIGHT POLE
REMOVE =	REMOVING SIGNS TYPE II & REMOVING SMALL SIGN SUPPORTS

N

STOP
REMOVE

FLASHING SPEED SIGN

+00 221+00 222+00 223+00 224+00 225+00 226+00 227+00

STH 35

CHURCH HILL RD

CHURCH HILL ROAD
LASER DR
(TO REMAIN)

Laser Dr
(TO REMAIN)

LASER DR

2

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	EXISTING SIGNING	SHEET 80	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\023201_SR.DWG
LAYOUT NAME - 023205-sr

PLOT DATE : 10/25/2022 12:04 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

NOTE: SEE PAVEMENT MARKING SHEETS FOR PAVEMENT MARKING DETAILS.

SIGN ON EXISTING LIGHT POLE

TO REMAIN *

R4-7 24"X30" *** 1-01

R1-1F 30"X30" *** 1-03

R5-1 30"X30" 1-04

J2-2 48"X57" 1-05

R5-1A 36"X24" 1-06

D1-3 36"X96" 1-07

W3-3 36"X36" 1-12

R6-3 30"X24" *** 1-02

J13-1 24"X45" ** 1-08

J4-2 48"X36" 1-09

R2-1 24"X30" 1-10

D1-2 24"X78" 1-11

M1-9S 18"X48" *** 1-23

STH 35/BUS 64

CTH C

MATCH LINE STA. 166+00

SIGNING LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
1-01	DENOTES SIGN NUMBER
R1-1	DENOTES SIGN CODE
36" x 36"	INDICATES SIGN SIZE
*	EXISTING SIGN ON TRAFFIC SIGNAL OR LIGHT POLE
**	SIGN POST BOX OUT REQUIRED
***	BAND SIGN ON TRAFFIC SIGNAL OR LIGHT POLE

J2-3 72"X57" 1-13

R4-7 24"X30" 1-20

W5-54 18"X18" ** 1-19

J1-3 72"X48" 1-21

R1-1 30"X30" 1-22

180TH AVE
HWY 35
(TO REMAIN, BY OTHERS)

W6-2 36"X36" 1-14

R5-1A 36"X24" 1-15

W11-8 30"X30" 1-16

W6-3 36"X36" 1-17

R5-1 30"X30" 1-18

MATCH LINE STA. 173+00

LAGRANDEUR RD

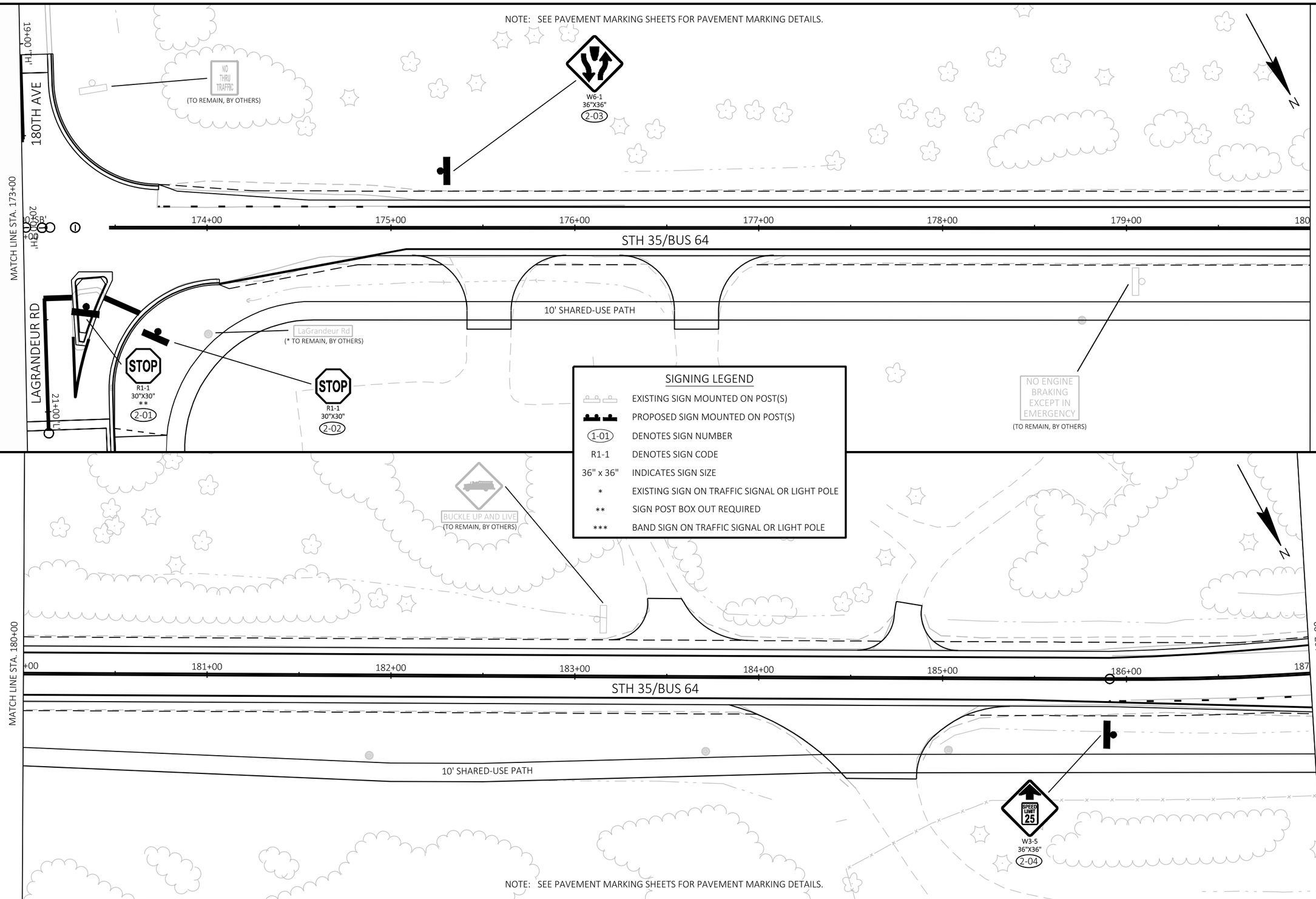
NOTE: SEE PAVEMENT MARKING SHEETS FOR PAVEMENT MARKING DETAILS.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PERMANANT SIGNING	SHEET 81	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 023201-ps

PLOT DATE : 10/26/2022 9:39 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTE: SEE PAVEMENT MARKING SHEETS FOR PAVEMENT MARKING DETAILS.



SIGNING LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
(1-01)	DENOTES SIGN NUMBER
R1-1	DENOTES SIGN CODE
36" x 36"	INDICATES SIGN SIZE
*	EXISTING SIGN ON TRAFFIC SIGNAL OR LIGHT POLE
**	SIGN POST BOX OUT REQUIRED
***	BAND SIGN ON TRAFFIC SIGNAL OR LIGHT POLE

NOTE: SEE PAVEMENT MARKING SHEETS FOR PAVEMENT MARKING DETAILS.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PERMANANT SIGNING	SHEET 82 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 023202-ps

PLOT DATE : 10/28/2022 9:28 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

NOTE: SEE PAVEMENT MARKING SHEETS FOR PAVEMENT MARKING DETAILS.

MATCH LINE STA. 187+00

STH 35/BUS 64

188+00

189+00

190+00

191+00

192+00

193+00

194+00

MATCH LINE STA. 194+00

10' SHARED-USE PATH

EXISTING SHARED-USE PATH

JCT COUNTY VV
J1-1
24"X39"
3-01

STOP
R1-1
30"X30"
3-02

BUSINESS 64 COUNTY VV NORTH 35
J2-3
72"X57"
3-03

SPEED LIMIT 45
R2-1
24"X30"
3-04

SPEED LIMIT 25
R2-1
24"X30"
3-05

N

SIGNING LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
1-01	DENOTES SIGN NUMBER
R1-1	DENOTES SIGN CODE
36" x 36"	INDICATES SIGN SIZE
*	EXISTING SIGN ON TRAFFIC SIGNAL OR LIGHT POLE
**	SIGN POST BOX OUT REQUIRED
***	BAND SIGN ON TRAFFIC SIGNAL OR LIGHT POLE

2

NOTE: SEE PAVEMENT MARKING SHEETS FOR PAVEMENT MARKING DETAILS.

MATCH LINE STA. 194+00

195+00

196+00

197+00

198+00

199+00

STH 35/BUS 64

EXISTING SHARED-USE PATH

10' SHARED-USE PATH

NO PARKING ANY TIME
R7-1D
18"X24"
3-06

NO PARKING ANY TIME
R7-1D
18"X24"
3-07

Hudson
Osceola
D1-2
30"X60"
3-08

NO PARKING ANY TIME
R7-1D
18"X24"
3-09

NO PARKING ANY TIME
R7-1D
18"X24"
3-11

ONLY ONLY ONLY
R3-8LAR
54"X30"
3-10

NO PARKING ANY TIME
R7-1D
18"X24"
3-12

SOUTH BUSINESS 35 64
J4-2
48"X36"
3-13

NORTH 35
J2-1
24"X57"
3-14

NO PARKING ANY TIME
R7-1L
18"X24"
3-16

SPEED LIMIT 25
R2-1
24"X30"
3-15

R3-4
24"X24"
***
3-17

YIELD
R1-2
36"X31"
**
3-18

W12-1D
24"X24"
**
3-19

STOP
R1-1F
30"X30"
***
3-31

NO PARKING ANY TIME
R7-1L
18"X24"
3-30

W12-1D
24"X24"
**
3-29

35 Main St
M1-94S
18"X78"
***
3-32

STOP
R1-1F
30"X30"
***
3-20
3-21

STOP
R1-1F
30"X30"
***
3-27
3-28

R10-3HR
9"X15"

R10-3HL
9"X15"

R10-3HR
9"X15"

R10-3HL
9"X15"

SOUTH BUSINESS 35 64 COUNTY VV
J3-3
72"X57"
3-26

SPEED LIMIT 25
R2-1
24"X30"
3-25

MAIN STREET

PARENT ST

(CHURCH HILL RD)

STH 35

DO NOT ENTER
R5-1
30"X30"

EMERGENCY VEHICLES ONLY
(TO REMAIN; BY OTHERS)
3-23

R3-4
24"X24"
***
3-22

ONE WAY
R6-2L
24"X30"
***
3-24

N

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PERMANANT SIGNING	SHEET 83 E

NOTE: SEE PAVEMENT MARKING SHEETS FOR PAVEMENT MARKING DETAILS.

WO5-52L 12"X36" (4-01)
WO5-52R 12"X36" (4-03)
W3-3 36"X36" (4-04)
ATV / UTV ROUTE & RIGHT ARROW (TO REMAIN, BY OTHERS)
* SNOW * EMERGENCY ROUTE (TO REMAIN, BY OTHERS)
MAIN STREET
9+00 'M'
CHAIN LINK
JH-1 24"X45" (4-06)
New Richmond
D1-1 15"X96" (4-13)
END SCHOOL ZONE
S5-2 24"X30" (4-14)
NO PARKING ANY TIME
R7-1D 18"X24" (4-16)
SOUTH 35 BUSINESS 64 COUNTY VV BUSINESS 64
JV2-2 48"X117" (4-17)
5' SIDEWALK
NORTH 35 SOUTH 35 BUSINESS 64
J3-3 72"X57" (4-02)
PARENT STREET
9+00 'P'
10+00 'M'
201+00
202+00
203+00
204+00
205+00
206
STH 35
(CHURCH HILL RD)
MATCH LINE STA. 206+00
10' SHARED-USE PATH
NORTH 35
J4-1 24"X36" (4-05)
S1-1 36"X36" (4-07)
AHEAD FINES HIGHER
S16-9P 30"X18" (4-09)
R2-6P 24"X18" (4-08)
SPEED LIMIT 30 NO PARKING ANY TIME
R7-1L 18"X24" (4-10)
R2-1 24"X30" (4-11)
SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
S4-51 24"X48" (4-12)
R4-7 24"X30" (4-15)
W12-1D 24"X24" (4-18)

SIGNING LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
(1-01)	DENOTES SIGN NUMBER
R1-1	DENOTES SIGN CODE
36" x 36"	INDICATES SIGN SIZE
*	EXISTING SIGN ON TRAFFIC SIGNAL OR LIGHT POLE
**	SIGN POST BOX OUT REQUIRED
***	BAND SIGN ON TRAFFIC SIGNAL OR LIGHT POLE

ONLY ONLY ONLY
R3-8LAR 54"X30" (4-20)
NO PARKING ANY TIME
R7-1D 18"X24" (4-21)
STOP (TO REMAIN)
CHURCH PARKING ONLY (TO REMAIN)
W3-3 36"X36" (4-22)
S1-1 36"X36" (4-27)
S16-7R 30"X18" (4-28)
S1-1 36"X36" (4-29)
S16-7L 30"X18" (4-30)
R7-1L 18"X24" (4-31)
JCT COUNTY VV
J1-1 24"X39" (4-32)
SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
S4-51 24"X48" (4-37)
5' SIDEWALK
MATCH LINE STA. 206+00
207+00
208+00
209+00
210+00
STH 35
(CHURCH HILL RD)
211+00
212+00
213
MATCH LINE STA. 213+00
10' SHARED-USE PATH
NO PARKING ANY TIME
R7-1D 18"X24" (4-19)
S1-1 36"X36" (4-23)
S16-7L 30"X18" (4-24)
S1-1 36"X36" (4-25)
S16-7R 30"X18" (4-26)
EXIT ONLY
CHURCH PARKING ONLY
(TO REMAIN)
STOP (TO REMAIN)
NO PARKING ANY TIME
R7-1R 18"X24" (4-33)
CHURCH HILL ROAD
SCHACHTNER ST
(MOVE, BY OTHERS)
SCHACHTNER ST
11+00 'S'
STOP
R1-1 30"X30" (4-34)
SPEED LIMIT 30 END SCHOOL ZONE
R2-1 24"X30" (4-35)
S5-2 24"X30" (4-36)

NOTE: SEE PAVEMENT MARKING SHEETS FOR PAVEMENT MARKING DETAILS.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PERMANANT SIGNING	SHEET 84	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 023204-ps
PLOT DATE : 11/1/2022 7:55 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

NOTE: SEE PAVEMENT MARKING SHEETS FOR PAVEMENT MARKING DETAILS.

S1-1
36"X36"
5-01

AHEAD
FINES HIGHER
R2-6P
24"X18"
5-02

S16-9P
30"X18"
5-03

NO PARKING ANY TIME
R7-1R
18"X24"
5-04

NO PARKING ANY TIME
R7-1D
18"X24"
5-05

SPEED LIMIT 30
R2-1
24"X30"
5-06

N

FLAG

GRAVEL

5' SIDEWALK

MATCH LINE STA. 213+00

+00 214+00 215+00 216+00 217+00 218+00 219+00 220

STH 35

(CHURCH HILL RD)

10' SHARED-USE PATH

MATCH LINE STA. 220+00

SIGNING LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON POST(S)
1-01	DENOTES SIGN NUMBER
R1-1	DENOTES SIGN CODE
36" x 36"	INDICATES SIGN SIZE
*	EXISTING SIGN ON TRAFFIC SIGNAL OR LIGHT POLE
**	SIGN POST BOX OUT REQUIRED
***	BAND SIGN ON TRAFFIC SIGNAL OR LIGHT POLE

STOP
R1-1
30"X30"
5-08

NO PARKING ANY TIME
R7-1L
18"X24"
5-07

5' SIDEWALK

FLASHING SPEED SIGN
REMOVE & SALVAGE

+00 221+00 222+00 223+00 224+00 225+00 226+00 227+00

STH 35

(CHURCH HILL RD)

10' SHARED-USE PATH

CHURCH HILL ROAD
LASER DR
(TO REMAIN)

Laser Dr
(TO REMAIN)

EXISTING SHARED-USE PATH

LASER DR

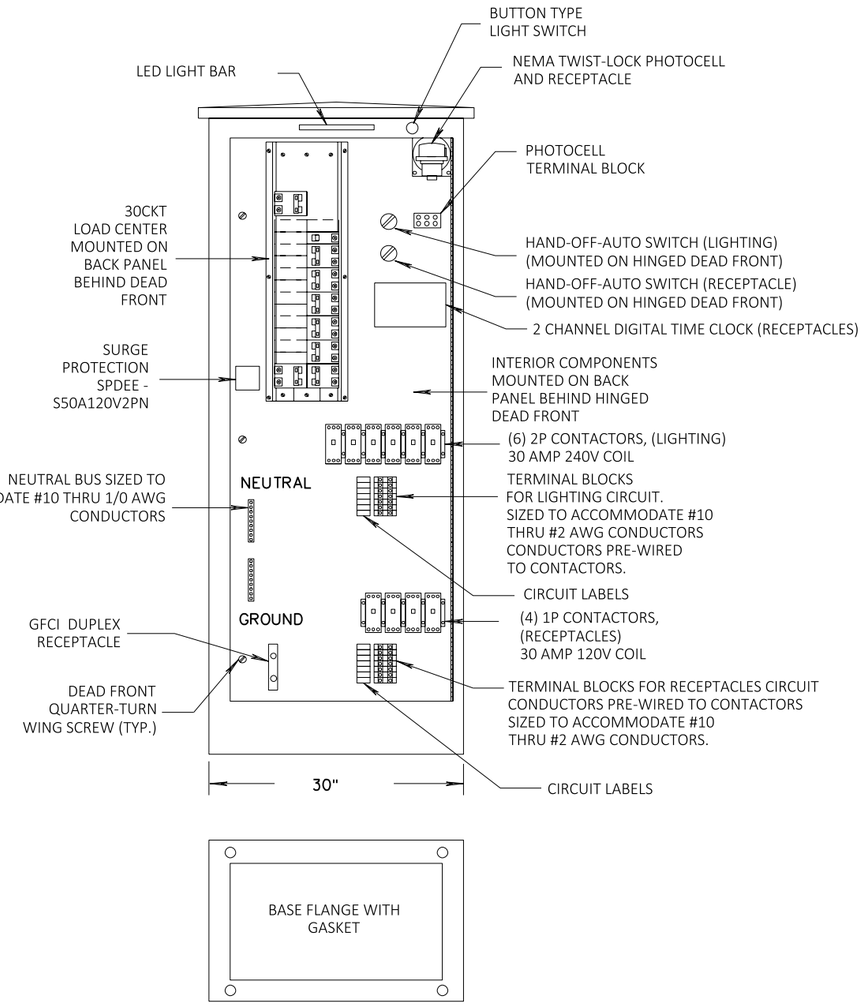
NOTE: SEE PAVEMENT MARKING SHEETS FOR PAVEMENT MARKING DETAILS.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PERMANANT SIGNING	SHEET 85 E

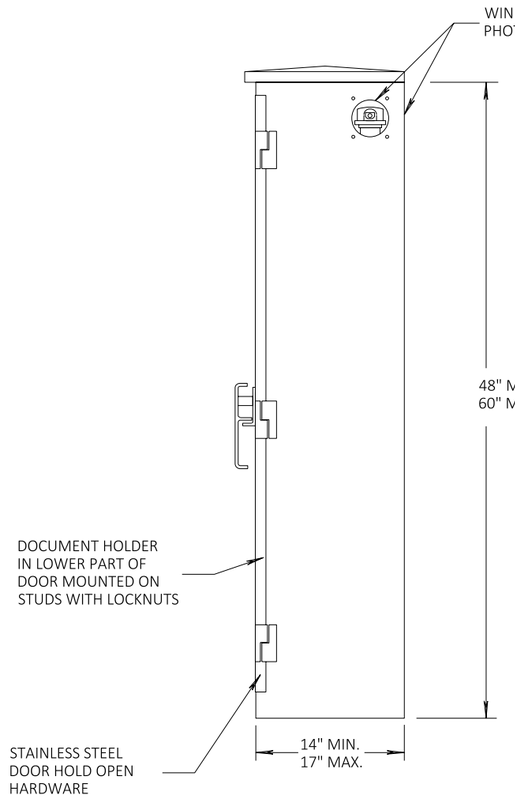
2

N

FRONT INTERIOR ELEVATION



SIDE VIEW



GENERAL NOTES

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

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE-WIRED BY THE CABINET FABRICATOR.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

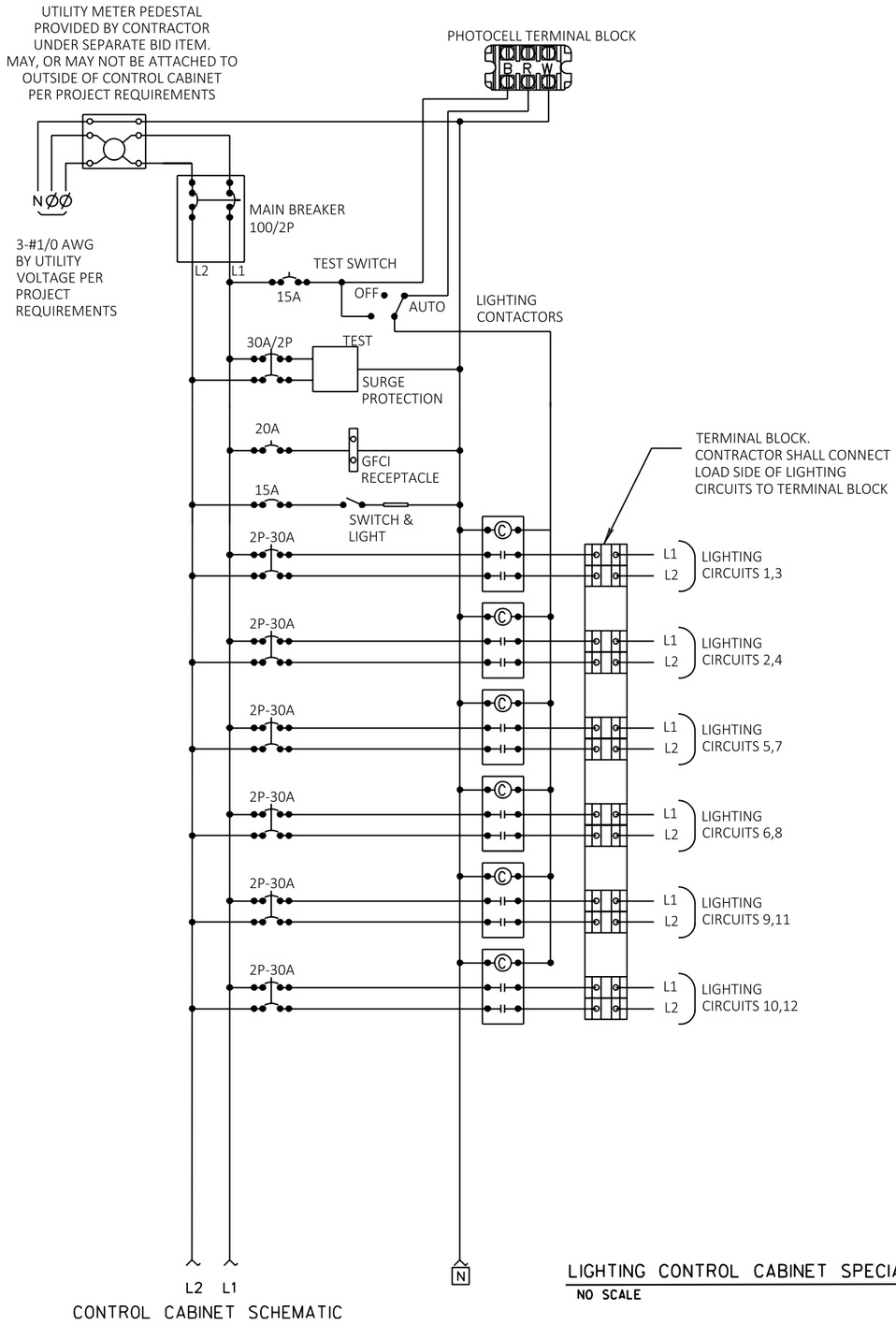
A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

LIGHTING CONTROL CABINET SPECIAL (120/240V) - LAYOUT

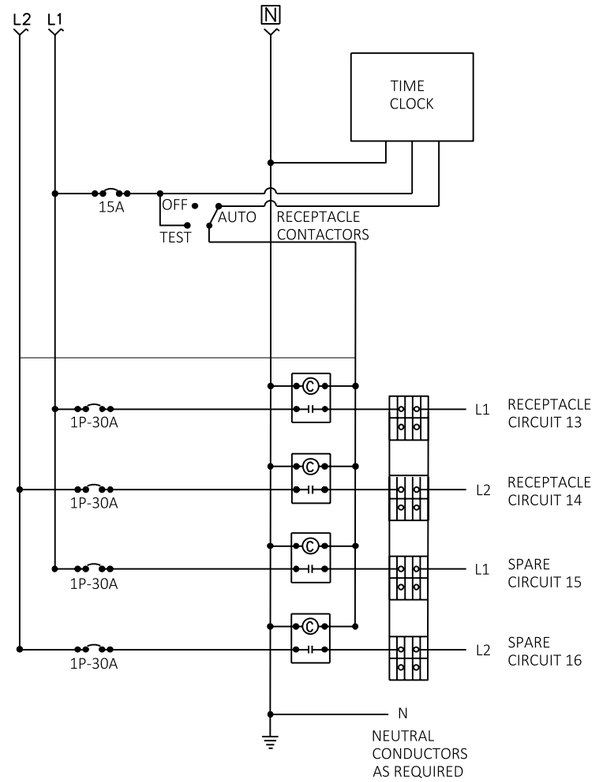
NO SCALE

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	LIGHTING CABINET DETAIL	SHEET 86	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - DOCUMENTS\GENERAL\CADD\SHEETS\P-LGT.DWG
LAYOUT NAME - LIGHTING DETAIL_1
PLOT DATE : 10/25/2022 10:14 AM PLOT BY : JENINGA, JAMES PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



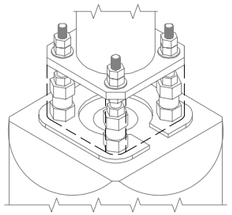
CONTROL CABINET SCHEMATIC

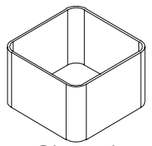


LIGHTING CONTROL CABINET SPECIAL (120/240V) - WIRING

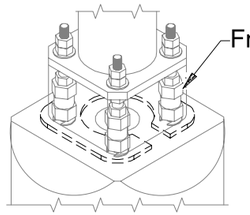
NO SCALE SHEET 2 OF 2

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	LIGHTING CABINET DETAIL	SHEET 87	E

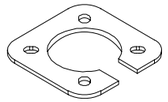




Shroud

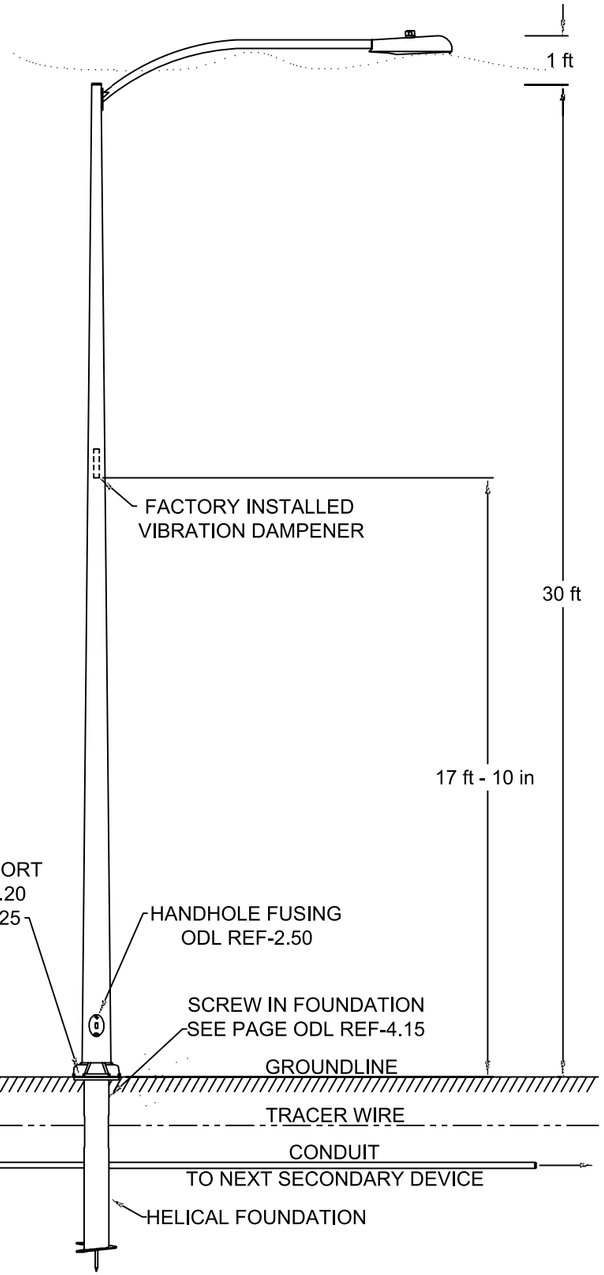


Frangible Coupling

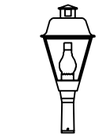


Reaction Plate

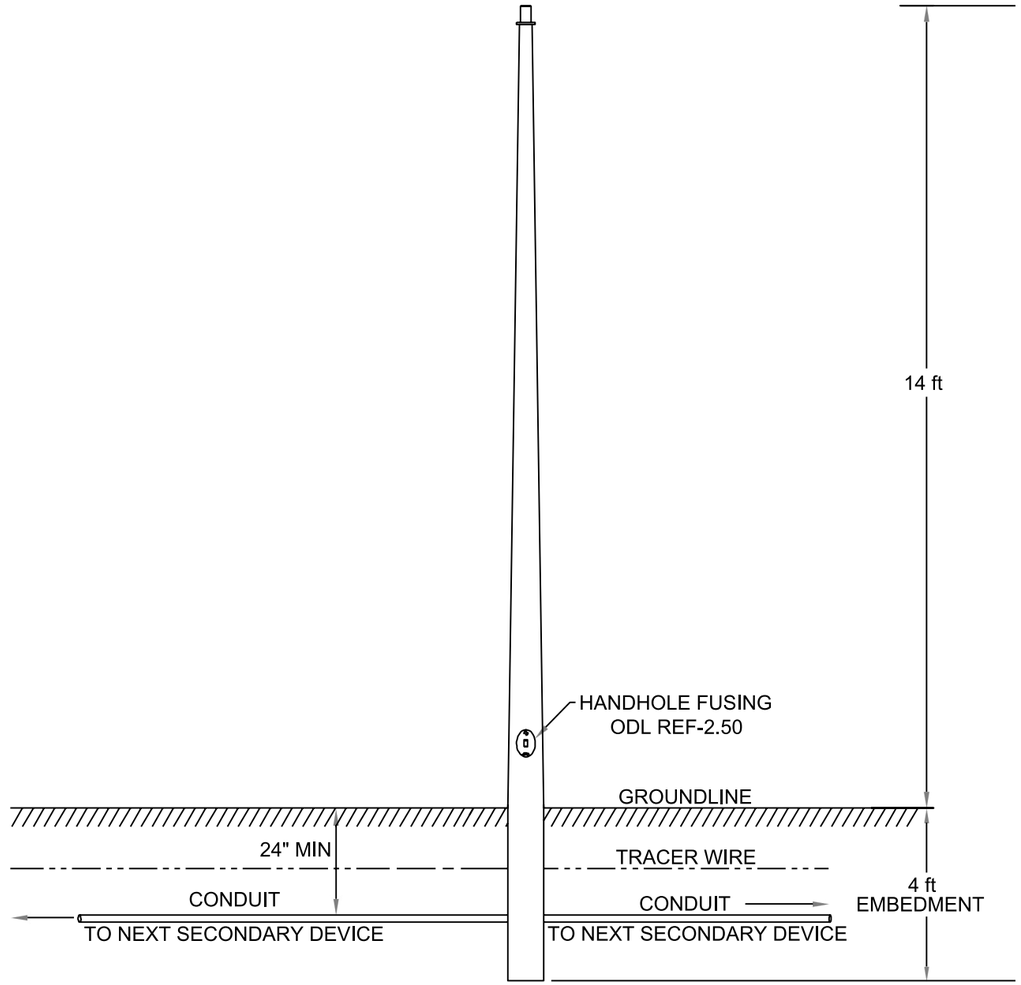
BREAKAWAY SUPPORT



XCEL ENERGY ROADWAY LIGHTING ASSEMBLY DETAIL



TRADITIONAL
COLONIAL
LUMINAIRE



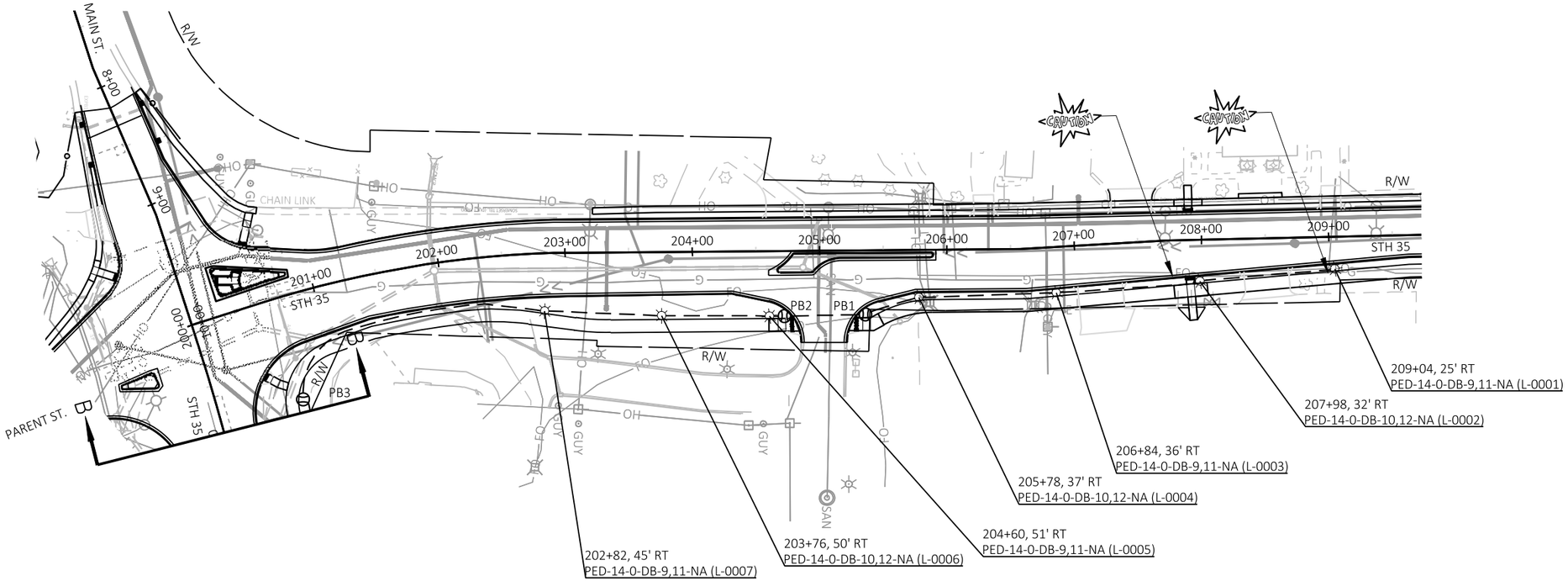
XCEL ENERGY PATH LIGHTING ASSEMBLY DETAIL

NOTE: FIBERGLASS POLES ARE DIRECT BURIED. FOUNDATION AND POLE GROUNDING NOT NEEDED. NESC REQUIREMENT OF A MINIMUM OF 4 GROUNDS PER MILE AND MUST STILL BE SATISFIED IN DESIGN. SEE PAGES ODL CONST-INDEX AND OLD REF-INDEX FOR MORE GUIDANCE FOR STREET LIGHT CIRCUIT GROUNDING.

NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

N



LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET
- PULL BOX, 24" X 42"
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- CONDUIT SPECIAL 2"
- ROAD LIGHTING ASSEMBLY
- PATH LIGHTING ASSEMBLY

NOTE: GRAYSHADE REPRESENTS EXISTING ROAWAY, AND PROPOSED TRAFFIC SIGNAL.EQUIPMENT.

STATION (LOCATION)

STA. XXX+XX', XX' RT
TYPE-30-12-5-1.3-13 (L-XXXX)

- LIGHT POLE NUMBER
- RECEPTACLE CIRCUIT (NOT APPLICABLE = NA)
- LIGHTING CIRCUIT
- BASE TYPE (H= HELICAL FOUNDATION, DB= DIRECT BURY)
- MAST ARM BRACKET LENGTH IN FEET
- POLE HEIGHT
- LUMINAIRES TYPE (LED=STANDARD, PED=PEDESTRIAN)

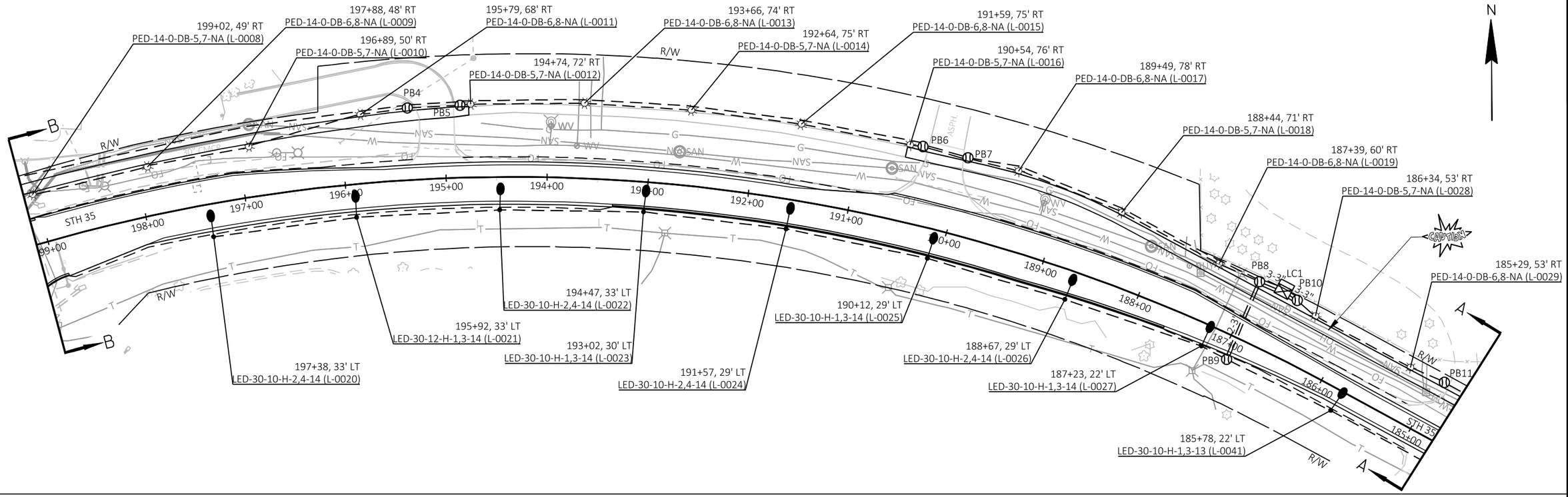
HIGHWAY LIGHTING
STH 35 LIGHTING
VILLAGE OF SOMERSET
ST. CROIX COUNTY

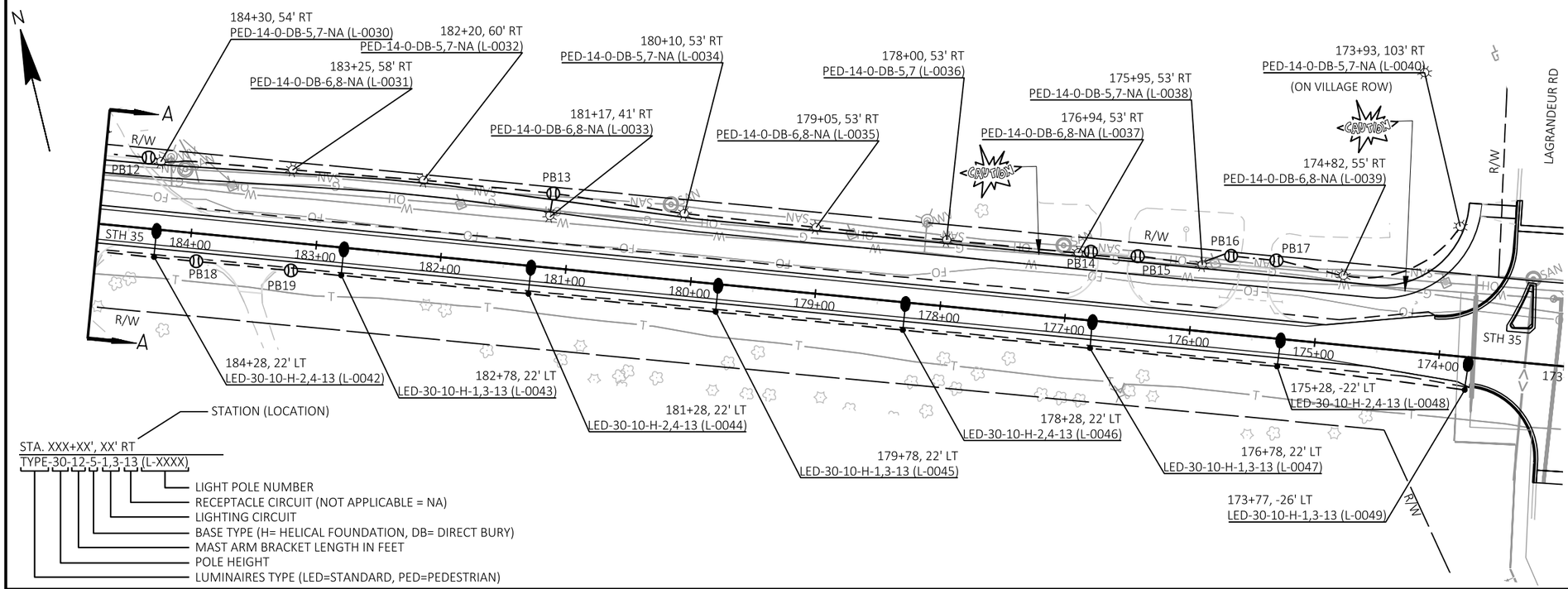
OCTOBER 2022 PAGE 1 OF 2

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	STREET LIGHTING PLAN	SHEET 89	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - DOCUMENTS\GENERAL\CADD\SHEETS\P-LGT.DWG
LAYOUT NAME - P-LGT_001
PLOT DATE : 10/28/2022 11:49 AM PLOT BY : JENINGA, JAMES PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42





STA. XXX+XX', XX' RT
TYPE-30-12-5-1,3-13 (L-XXXX)

- STATION (LOCATION)
- LIGHT POLE NUMBER
- RECEPTACLE CIRCUIT (NOT APPLICABLE = NA)
- LIGHTING CIRCUIT
- BASE TYPE (H= HELICAL FOUNDATION, DB= DIRECT BURY)
- MAST ARM BRACKET LENGTH IN FEET
- POLE HEIGHT
- LUMINAIRES TYPE (LED=STANDARD, PED=PEDESTRIAN)

NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. PROVIDE SEPARATE 120V FESTOON RECEPTACLE CIRCUIT TO EACH ROADWAY LIGHTING UNIT.
3. MOUNT FESTOONS 6" BELOW TOP OF POLE WITH 20 AMP/125 VOLT, GFCI TYPE RECEPTACLE AND WEATHERPROOF ENCLOSURE AND COVER.

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET
- PULL BOX, 24" X 42"
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- CONDUIT SPECIAL 2"
- ROAD LIGHTING ASSEMBLY
- PATH LIGHTING ASSEMBLY

NOTE: GRAYSHADE REPRESENTS EXISTING ROADWAY AND PROPOSED TRAFFIC SIGNAL EQUIPMENT.

HIGHWAY LIGHTING
STH 35 LIGHTING
VILLAGE OF SOMERSET
ST. CROIX COUNTY

OCTOBER 2022 PAGE 2 OF 2

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	STREET LIGHTING PLAN	SHEET 90	E

2

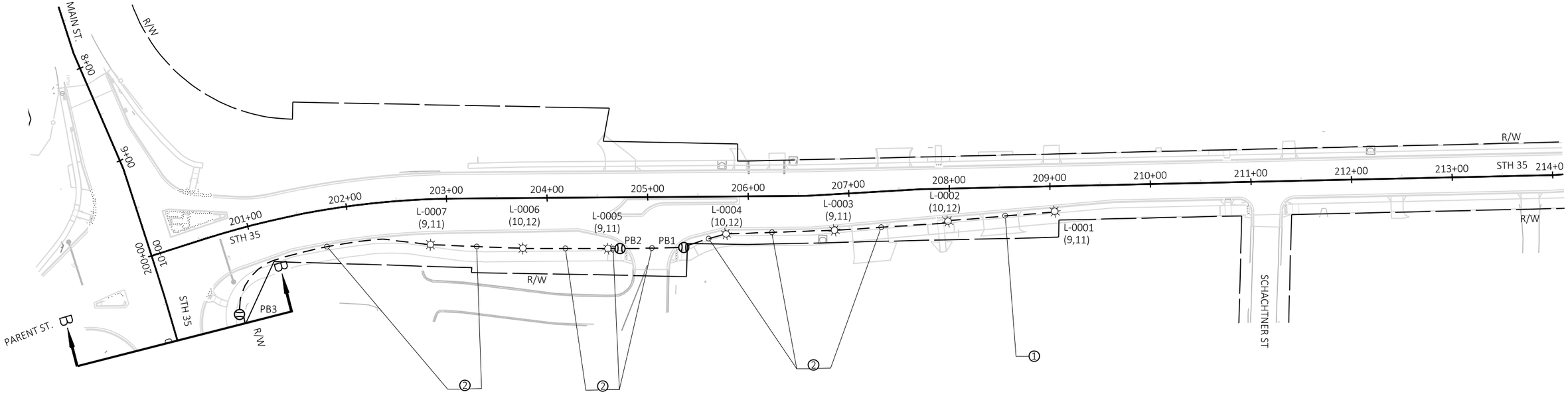
2

N

① (2)#8 AND (1)#8 GROUND IN 2" C
② (4)#8 AND (1)#8 GROUND IN 2" C

LC1

9,11 = 2-8 AWG 1-8 AWG GND	LIGHTING - 240V
10,12 = 2-8 AWG	LIGHTING - 240V



LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET
- PULL BOX, 24" X 42"
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- CONDUIT SPECIAL 2"
- ROAD LIGHTING ASSEMBLY
- PATH LIGHTING ASSEMBLY

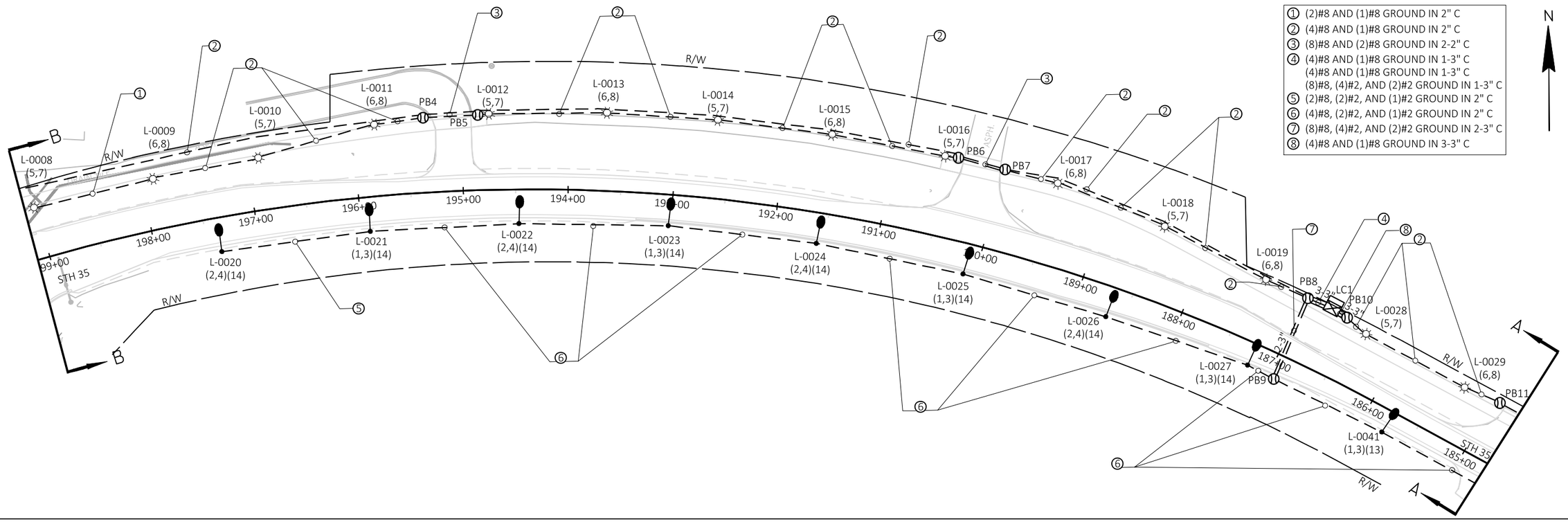
NOTE: GRAYSHADE REPRESENTS EXISTING ROAWAY, PROPOSED ROADWAY AND PROPOSED TRAFFIC SIGNAL EQUIPMENT.

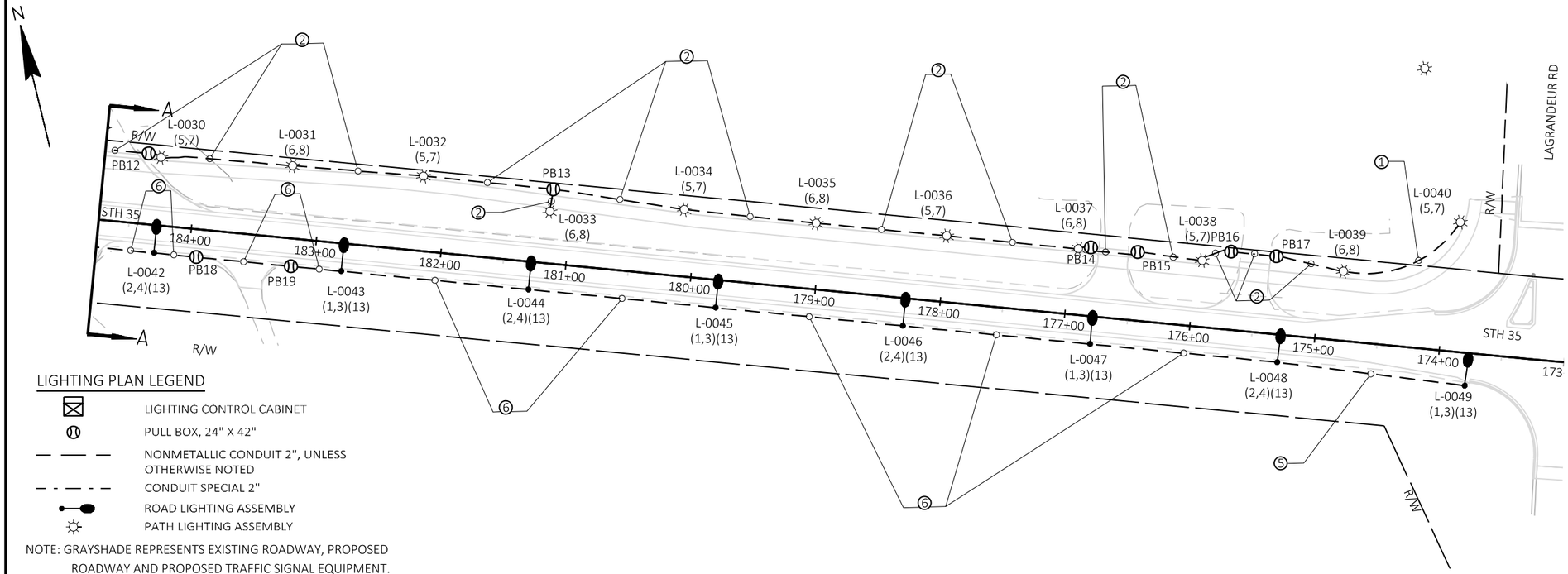
HIGHWAY LIGHTING
STH 35 LIGHTING
VILLAGE OF SOMERSET
ST. CROIX COUNTY

OCTOBER 2022 PAGE 1 OF 2

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	WIRING DIAGRAM	SHEET 91	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - DOCUMENTS\GENERAL\CADD\SHEETS\P-LGT.DWG
LAYOUT NAME - Wiring diagram_001
PLOT DATE : 10/28/2022 11:49 AM PLOT BY : JENINGA, JAMES PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42





LC1

1,3 = 2-8 AWG	LIGHTING - 240V
2,4 = 2-8 AWG	LIGHTING - 240V
5,7 = 2-8 AWG 1-8 AWG GND	LIGHTING - 240V
6,8 = 2-8 AWG	LIGHTING - 240V
13 = 2-2 AWG 1-2 AWG GND	FESTOON - 120V
14 = 2-2 AWG 1-2 AWG GND	FESTOON - 120V

LIGHTING PLAN LEGEND

- LIGHTING CONTROL CABINET
- PULL BOX, 24" X 42"
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- CONDUIT SPECIAL 2"
- ROAD LIGHTING ASSEMBLY
- PATH LIGHTING ASSEMBLY

NOTE: GRAYSHADE REPRESENTS EXISTING ROADWAY, PROPOSED ROADWAY AND PROPOSED TRAFFIC SIGNAL EQUIPMENT.

HIGHWAY LIGHTING
STH 35 LIGHTING
VILLAGE OF SOMERSET
ST. CROIX COUNTY

OCTOBER 2022 PAGE 2 OF 2

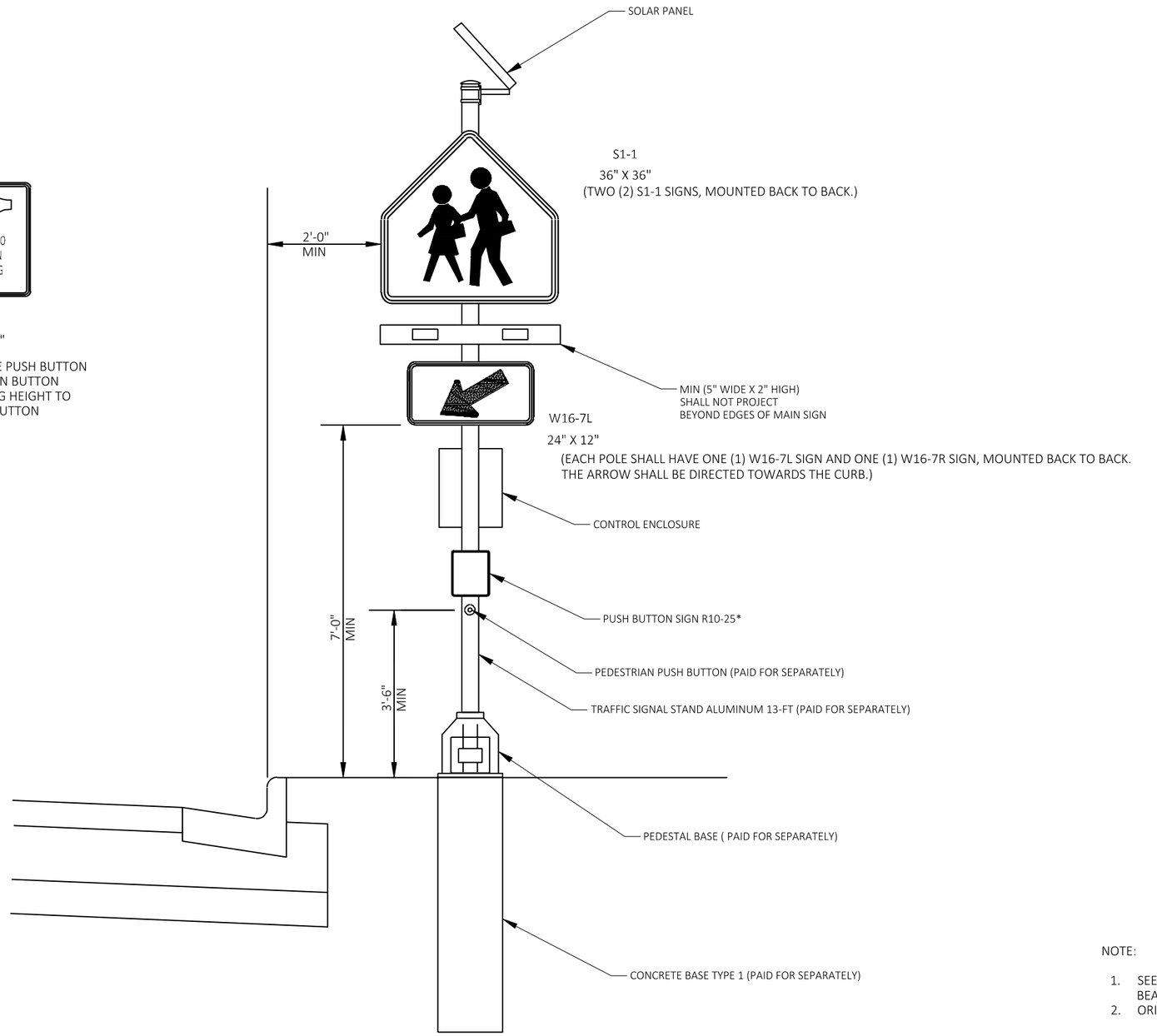
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	WIRING DIAGRAM	SHEET 92	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - DOCUMENTS\GENERAL\CADD\SHEETS\P-LGT.DWG
LAYOUT NAME - Wiring Diagram_002
PLOT DATE : 10/28/2022 11:49 AM PLOT BY : JENINGA, JAMES PLOT NAME : PLOT SCALE : 1 IN:100 FT



R10-25
9" X 12"

*LOCATE ABOVE PUSH BUTTON
ACTIVATION BUTTON
4' MOUNTING HEIGHT TO
PUSH BUTTON



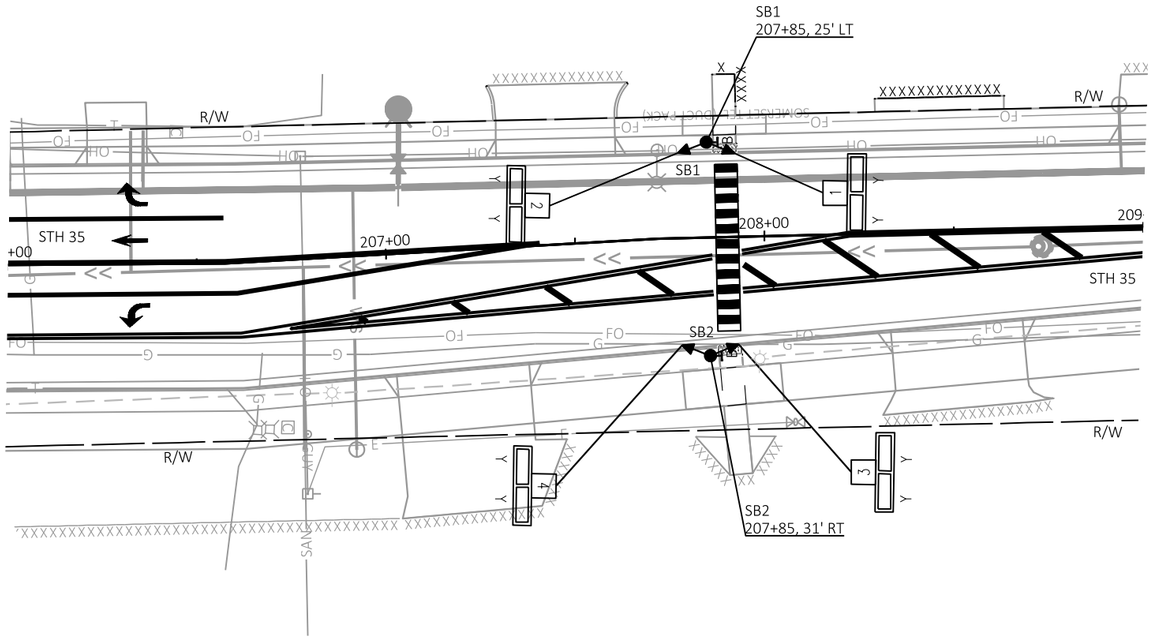
RECTANGULAR RAPID FLASHING BEACON DETAIL

NOTE:

1. SEE RECTANGULAR RAPID FLASHING BEACON PLAN SHEETS FOR BEACON AND PUSH BUTTON LOCATIONS.
2. ORIENT SOLAR PANEL FOR MAXIMUM SOLAR EXPOSURE

2

N



LIGHTING PLAN LEGEND

XX	SIGNAL HEAD NUMBER
Y Y	YELLOW RECTANGULAR RAPID FLASHING BEACON
PB	PUSH BUTTON
	RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH PEDESTRIAN ACTIVATION

NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. LENSES ARE MIN 5" W X 2" H
3. SEE PERMANENT SIGNING PLAN FOR RRFB SIGNS.
4. SEE RECTANGULAR RAPID FLASHING BEACON DETAIL FOR INFORMATION ON RRFB ASSEMBLIES.

NOTE: GRAYSHADE REPRESENTS EXISTING AND PROPOSED ROADWAY, PROPOSED SIDEWALK, AND PROPOSED STREET LIGHTING EQUIPMENT.

HIGHWAY LIGHTING
STH 35 LIGHTING
VILLAGE OF SOMERSET
ST. CROIX COUNTY

OCTOBER 2022 PAGE 1 OF 1

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	RECTANGULAR RAPID FLASHING BEACON	SHEET 94	E

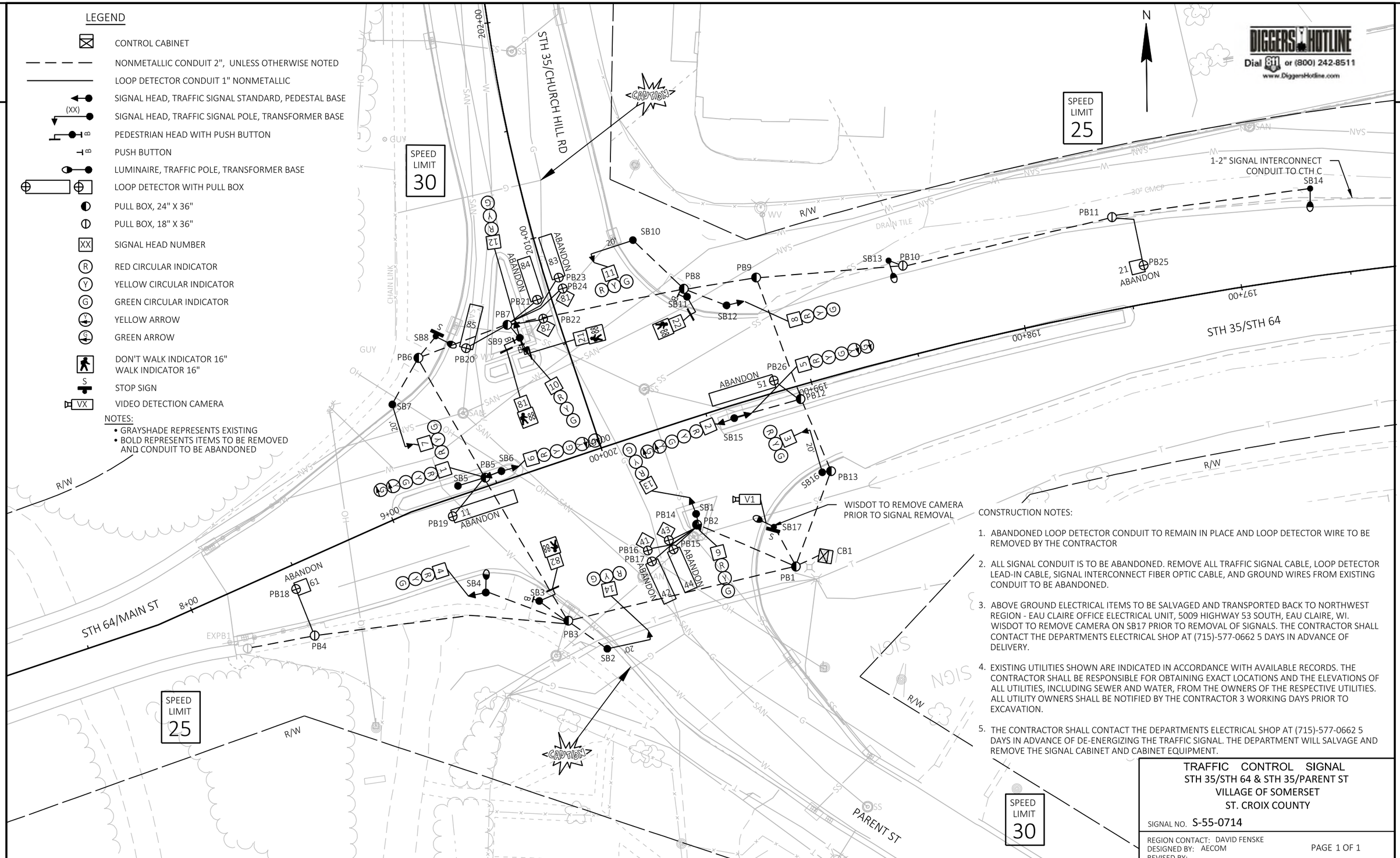
FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - DOCUMENTS\GENERAL\CADD\SHEETS\P-RRFB.DWG
LAYOUT NAME - P-RRFB_001
PLOT DATE : 10/25/2022 9:01 AM PLOT BY : JENINGA, JAMES PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR WITH PULL BOX
- PULL BOX, 24" X 36"
- PULL BOX, 18" X 36"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- S STOP SIGN
- VX VIDEO DETECTION CAMERA

NOTES:

- GRAYSHADE REPRESENTS EXISTING
- BOLD REPRESENTS ITEMS TO BE REMOVED AND CONDUIT TO BE ABANDONED



CONSTRUCTION NOTES:

1. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE AND LOOP DETECTOR WIRE TO BE REMOVED BY THE CONTRACTOR
2. ALL SIGNAL CONDUIT IS TO BE ABANDONED. REMOVE ALL TRAFFIC SIGNAL CABLE, LOOP DETECTOR LEAD-IN CABLE, SIGNAL INTERCONNECT FIBER OPTIC CABLE, AND GROUND WIRES FROM EXISTING CONDUIT TO BE ABANDONED.
3. ABOVE GROUND ELECTRICAL ITEMS TO BE SALVAGED AND TRANSPORTED BACK TO NORTHWEST REGION - EAU CLAIRE OFFICE ELECTRICAL UNIT, 5009 HIGHWAY 53 SOUTH, EAU CLAIRE, WI. WISDOT TO REMOVE CAMERA ON SB17 PRIOR TO REMOVAL OF SIGNALS. THE CONTRACTOR SHALL CONTACT THE DEPARTMENTS ELECTRICAL SHOP AT (715)-577-0662 5 DAYS IN ADVANCE OF DELIVERY.
4. EXISTING UTILITIES SHOWN ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND THE ELEVATIONS OF ALL UTILITIES, INCLUDING SEWER AND WATER, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITY OWNERS SHALL BE NOTIFIED BY THE CONTRACTOR 3 WORKING DAYS PRIOR TO EXCAVATION.
5. THE CONTRACTOR SHALL CONTACT THE DEPARTMENTS ELECTRICAL SHOP AT (715)-577-0662 5 DAYS IN ADVANCE OF DE-ENERGIZING THE TRAFFIC SIGNAL. THE DEPARTMENT WILL SALVAGE AND REMOVE THE SIGNAL CABINET AND CABINET EQUIPMENT.

TRAFFIC CONTROL SIGNAL
STH 35/STH 64 & STH 35/PARENT ST
VILLAGE OF SOMERSET
ST. CROIX COUNTY

SIGNAL NO. S-55-0714

REGION CONTACT: DAVID FENSKE
DESIGNED BY: AECOM
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 95	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - GENERAL\CADD\SHEETS\E-SIG_STH 35 & PARENT ST.DWG
LAYOUT NAME - Removal
PLOT DATE : 10/21/2022 9:23 AM PLOT BY : SALOMONSEN, DEREK PLOT NAME : PLOT SCALE : 1IN:40FT

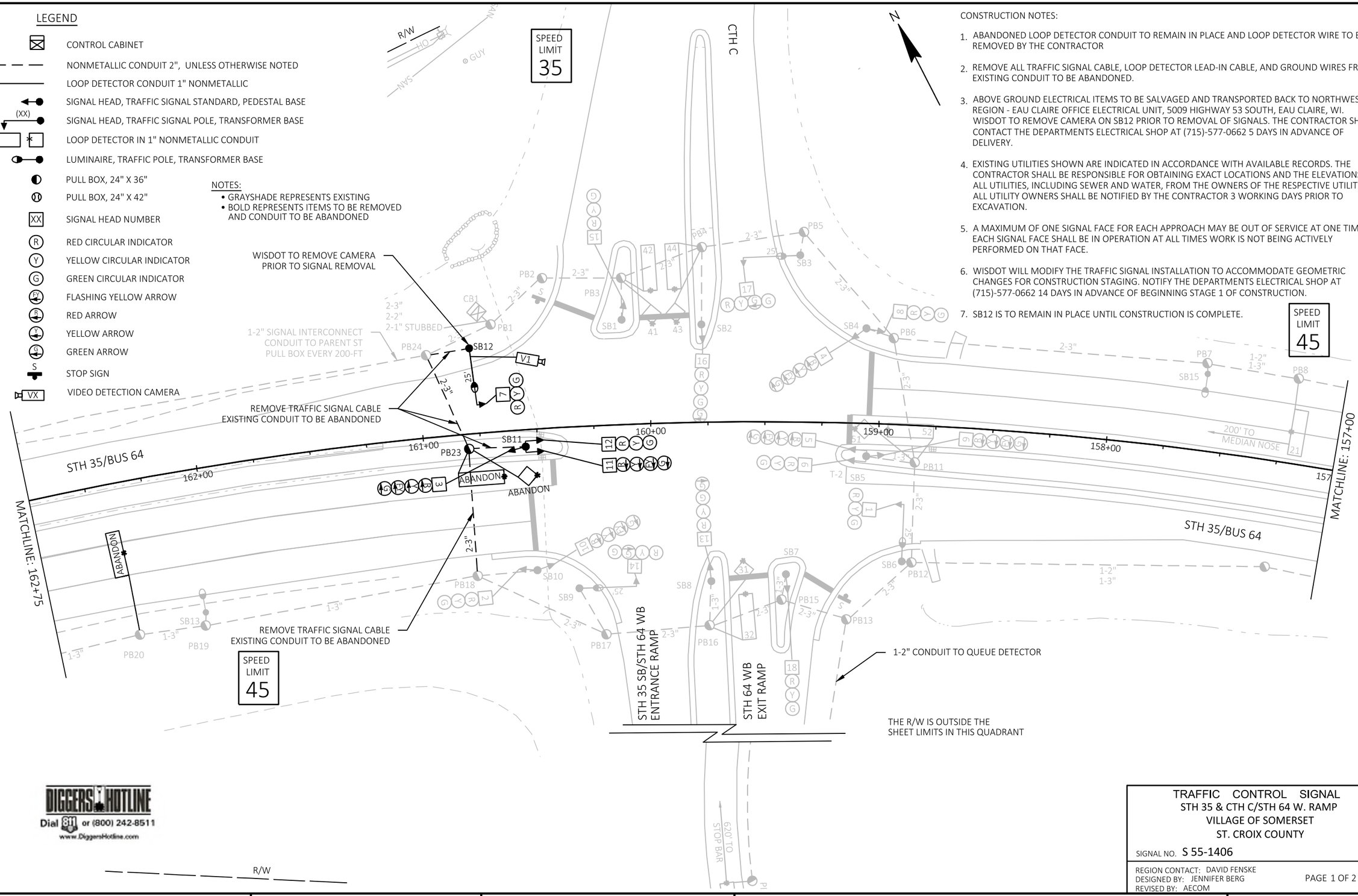
WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- FY FLASHING YELLOW ARROW
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- S STOP SIGN
- VX VIDEO DETECTION CAMERA

NOTES:
- GRAYSHADE REPRESENTS EXISTING
- BOLD REPRESENTS ITEMS TO BE REMOVED AND CONDUIT TO BE ABANDONED



CONSTRUCTION NOTES:

1. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE AND LOOP DETECTOR WIRE TO BE REMOVED BY THE CONTRACTOR
2. REMOVE ALL TRAFFIC SIGNAL CABLE, LOOP DETECTOR LEAD-IN CABLE, AND GROUND WIRES FROM EXISTING CONDUIT TO BE ABANDONED.
3. ABOVE GROUND ELECTRICAL ITEMS TO BE SALVAGED AND TRANSPORTED BACK TO NORTHWEST REGION - EAU CLAIRE OFFICE ELECTRICAL UNIT, 5009 HIGHWAY 53 SOUTH, EAU CLAIRE, WI. WISDOT TO REMOVE CAMERA ON SB12 PRIOR TO REMOVAL OF SIGNALS. THE CONTRACTOR SHALL CONTACT THE DEPARTMENTS ELECTRICAL SHOP AT (715)-577-0662 5 DAYS IN ADVANCE OF DELIVERY.
4. EXISTING UTILITIES SHOWN ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND THE ELEVATIONS OF ALL UTILITIES, INCLUDING SEWER AND WATER, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITY OWNERS SHALL BE NOTIFIED BY THE CONTRACTOR 3 WORKING DAYS PRIOR TO EXCAVATION.
5. A MAXIMUM OF ONE SIGNAL FACE FOR EACH APPROACH MAY BE OUT OF SERVICE AT ONE TIME. EACH SIGNAL FACE SHALL BE IN OPERATION AT ALL TIMES WORK IS NOT BEING ACTIVELY PERFORMED ON THAT FACE.
6. WISDOT WILL MODIFY THE TRAFFIC SIGNAL INSTALLATION TO ACCOMMODATE GEOMETRIC CHANGES FOR CONSTRUCTION STAGING. NOTIFY THE DEPARTMENTS ELECTRICAL SHOP AT (715)-577-0662 14 DAYS IN ADVANCE OF BEGINNING STAGE 1 OF CONSTRUCTION.
7. SB12 IS TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.

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

TRAFFIC CONTROL SIGNAL
STH 35 & CTH C/STH 64 W. RAMP
VILLAGE OF SOMERSET
ST. CROIX COUNTY

SIGNAL NO. S 55-1406

REGION CONTACT: DAVID FENSKE
DESIGNED BY: JENNIFER BERG
REVISED BY: AECOM

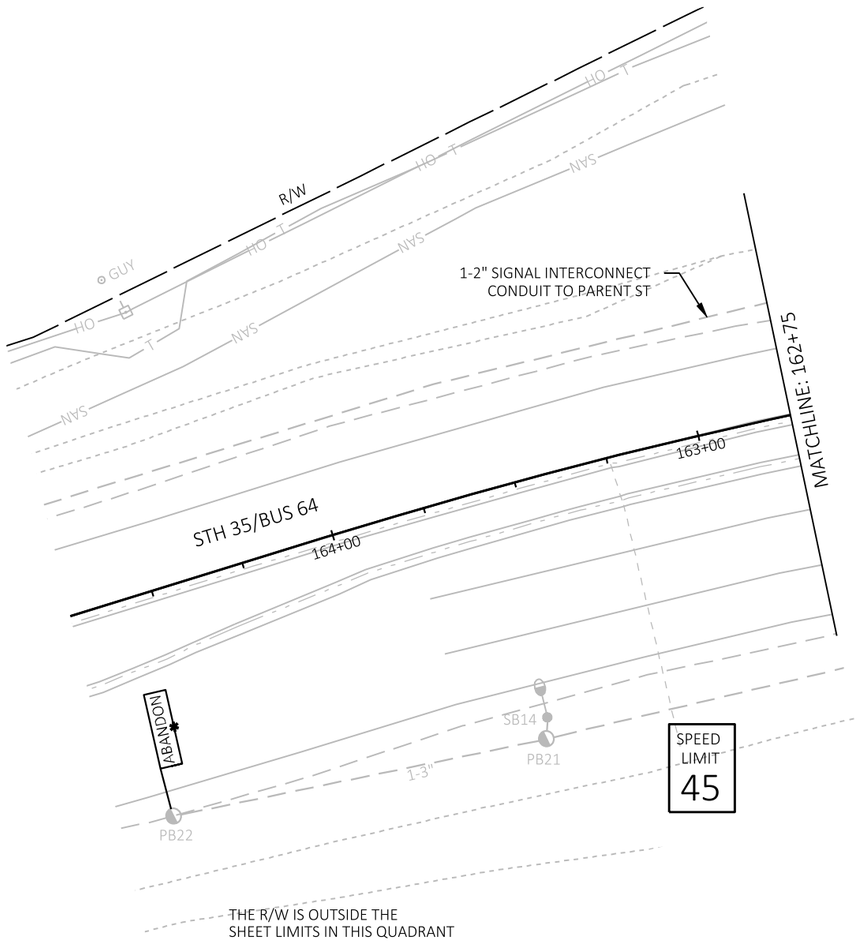
PAGE 1 OF 2

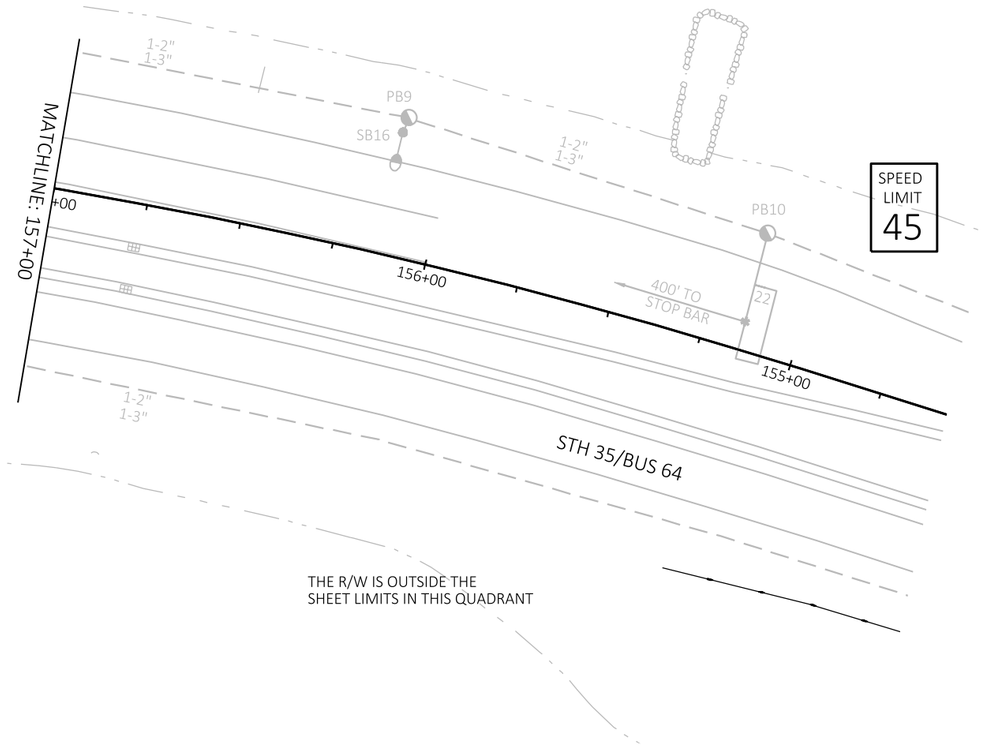
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 96	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - GENERAL\CADD\SHEETS\E-SIG_STH 35 & CTH C.DWG
LAYOUT NAME - Removal
PLOT DATE : 10/21/2022 10:17 AM PLOT BY : SALOMONSEN, DEREK PLOT NAME : PLOT SCALE : 1IN:40FT

WISDOT/CADDS SHEET 42

2





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

TRAFFIC CONTROL SIGNAL
STH 35 & CTH C/STH 64 W. RAMP
VILLAGE OF SOMERSET
ST. CROIX COUNTY

SIGNAL NO. S 55-1406

REGION CONTACT: DAVID FENSKE
DESIGNED BY: JENNIFER BERG
REVISED BY: AECOM

PAGE 2 OF 2

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 97	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - GENERAL\CADD\SHEETS\E-SIG_STH 35 & CTH C.DWG
LAYOUT NAME - Removal (2)
PLOT DATE : 10/21/2022 10:17 AM PLOT BY : SALOMONSEN, DEREK PLOT NAME : PLOT SCALE : 1IN:40FT

2

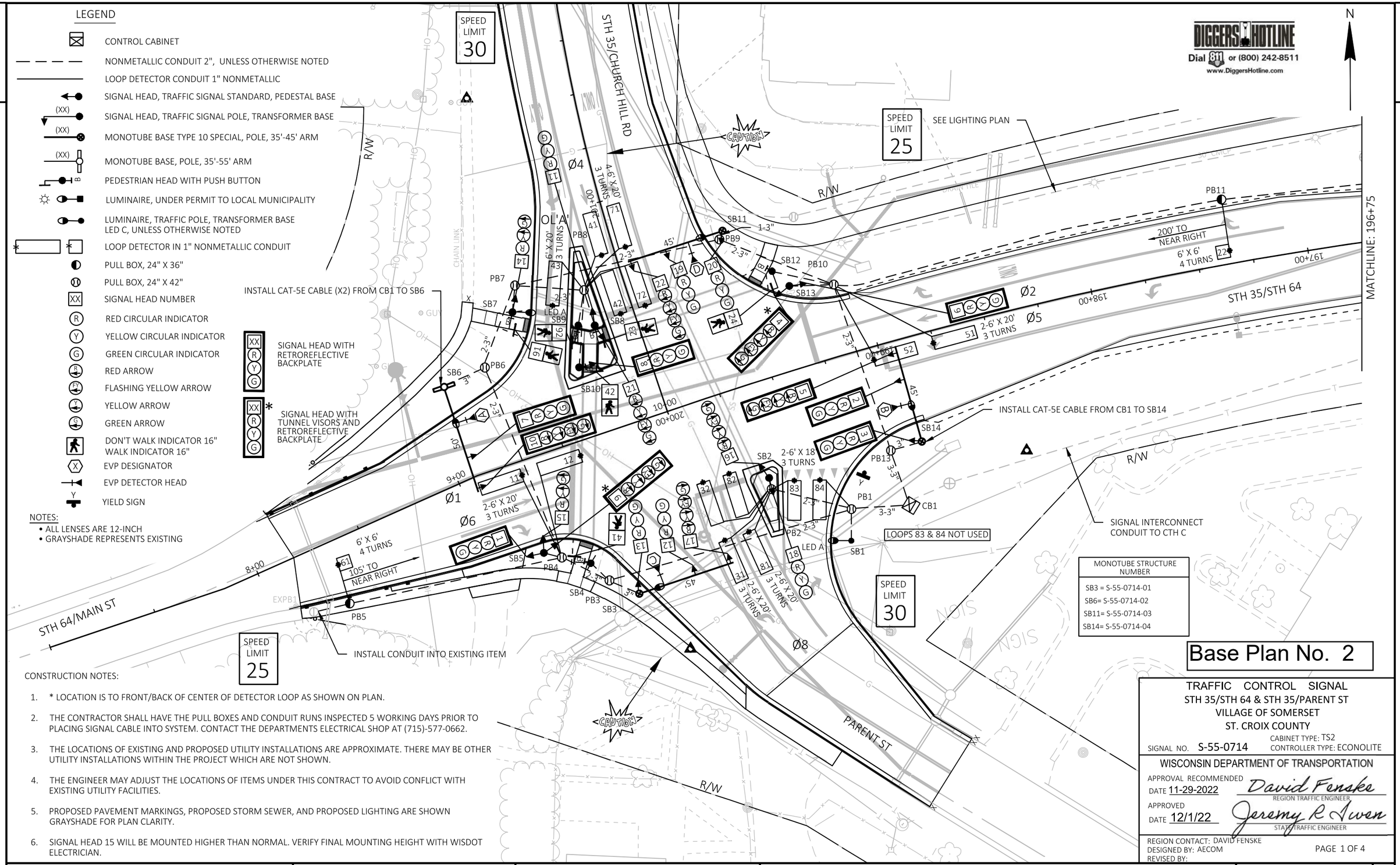
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE TYPE 10 SPECIAL, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE, UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE LED C, UNLESS OTHERWISE NOTED
- * * LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- FYA FLASHING YELLOW ARROW
- YA YELLOW ARROW
- GA GREEN ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- Y YIELD SIGN

XX R Y G SIGNAL HEAD WITH RETROREFLECTIVE BACKPLATE

XX * R Y G SIGNAL HEAD WITH TUNNEL VISORS AND RETROREFLECTIVE BACKPLATE

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING



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

N

MONOTUBE STRUCTURE NUMBER
SB3 = S-55-0714-01
SB6= S-55-0714-02
SB11= S-55-0714-03
SB14= S-55-0714-04

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT/BACK OF CENTER OF DETECTOR LOOP AS SHOWN ON PLAN.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE DEPARTMENTS ELECTRICAL SHOP AT (715)-577-0662.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. PROPOSED PAVEMENT MARKINGS, PROPOSED STORM SEWER, AND PROPOSED LIGHTING ARE SHOWN GRAYSHADE FOR PLAN CLARITY.
6. SIGNAL HEAD 15 WILL BE MOUNTED HIGHER THAN NORMAL. VERIFY FINAL MOUNTING HEIGHT WITH WISDOT ELECTRICIAN.

Base Plan No. 2

TRAFFIC CONTROL SIGNAL
STH 35/STH 64 & STH 35/PARENT ST
VILLAGE OF SOMERSET
ST. CROIX COUNTY

SIGNAL NO. S-55-0714
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 11-29-2022 David Fenske
REGION TRAFFIC ENGINEER

APPROVED
DATE 12/1/22 Jeremy R Owen
STATE TRAFFIC ENGINEER

REGION CONTACT: DAVID FENSKE
DESIGNED BY: AECOM
REVISED BY:

PAGE 1 OF 4

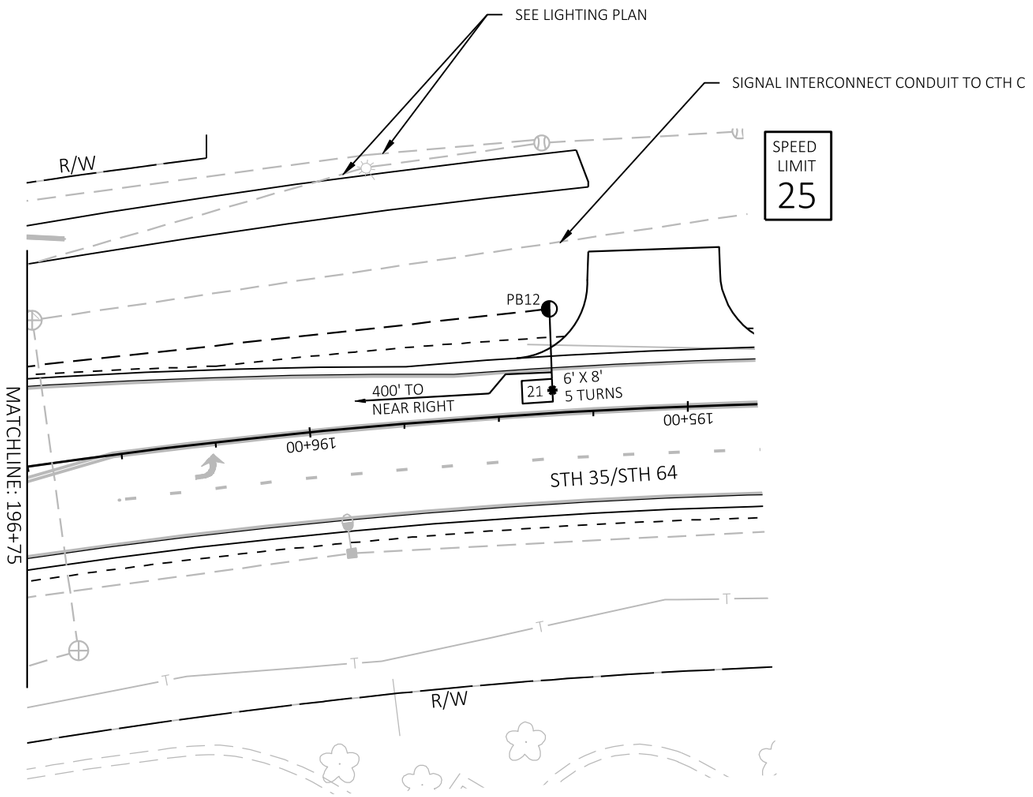
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC SIGNAL PLAN	SHEET 98	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - GENERAL\CADD\SHEETS\P-SIG_STH 35 & PARENT ST.DWG
LAYOUT NAME - P-sig
PLOT DATE : 10/24/2022 12:32 PM PLOT BY : SALOMONSEN, DEREK PLOT NAME : PLOT SCALE : 1IN:40FT

WISDOT/CADDS SHEET 42

2

N



TRAFFIC CONTROL SIGNAL
STH 35/STH 64 & STH 35/PARENT ST
VILLAGE OF SOMERSET
ST. CROIX COUNTY

SIGNAL NO. S-55-0714

REGION CONTACT: DAVID FENSKE
DESIGNED BY: AECOM
REVISED BY:

PAGE 2 OF 4

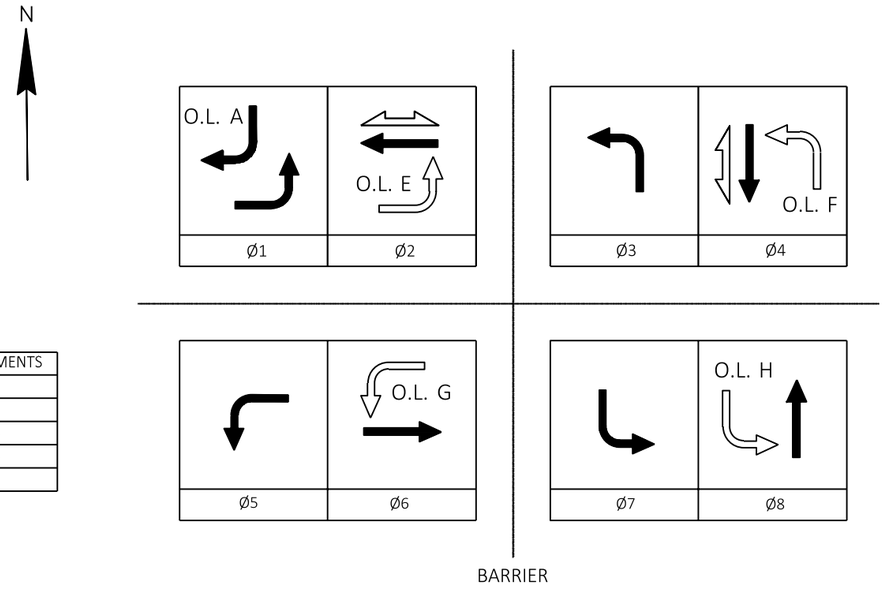
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC SIGNAL PLAN	SHEET 99	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - GENERAL\CADD\SHEETS\P-SIG_STH 35 & PARENT ST.DWG
LAYOUT NAME - P-sig (2)

PLOT DATE : 10/24/2022 12:32 PM PLOT BY : SALOMONSEN, DEREK PLOT NAME : PLOT SCALE : 1IN:40FT

	HEAD NUMBERS	FLASH
Ø1	4,5	R
Ø2	6,7,8	R
Ø3	21,22	-
Ø4	11,12,13	R
Ø5	9,10	-
Ø6	1,2,3	R
Ø7	16,17	-
Ø8	18,19,20	R
Ø2P	23,24	-
Ø4P	41,42	-
Ø9P	91,92	-
OLA	14,15	R
OLE	4,5	R
OLF	21,22	R
OLG	9,10	R
OLH	16,17	R

OL ASSIGNMENTS
1
1 + 2
3 + 4
5 + 6
7 + 8



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W /Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN.	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN.	X
7		4		X
8		4		X

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
O.L. "E"=	1	2
O.L. "F"=	3	4
O.L. "G"=	5	6
O.L. "H"=	7	8

OVERLAPS

O.L. "A" = Ø1
O.L. "B" =
O.L. "C" =
O.L. "D" =

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
CLOSED LOOP FIBER OPTIC*	X
FIBER OPTIC NETWORK	
INTERSECTION ONLY (CELL MODEM)	
*LOCATION OF CELL MODEM	
CONTROLLER NO: S-55-0714	
SIGNAL SYSTEM:	

TYPE OF LIGHTING	
BY OTHER AGENCY	X
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	11	21	31	41	43	52	71	81
PHASE CALLED	1	2	3+8	4	1	5	4+7	8
PHASE EXTENDED	1	2	3+8	4	1	5	4+7	8
DISCONNECT TIME								
CALLING DELAY					10"	2"		
EXTENSION STRETCH								
LOOP FUNCTION								

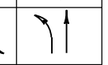
DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR #(S)	*83							
PHASE CALLED								
PHASE EXTENDED								
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)	12	22	32	42	51	61	72	82
PHASE CALLED	1	2	3+8	4	5	6	4+7	8
PHASE EXTENDED	1	2	3+8	4	5	6	4+7	8
DISCONNECT TIME								
CALLING DELAY	2"		2"				2"	
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR #(S)	*84							
PHASE CALLED								
PHASE EXTENDED								
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

*LOOPS WIRED FOR FUTURE USE

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
PREEMPTION CHANNEL	1	2	3	4
MOVEMENT				
DIRECTION	WB	EB	SB	NB
PHASES	2+5	1+6	4+7+OLA	3+8

NOTE: FULL CLEARANCE AND MINIMUM GREEN INTERVAL SHALL ALWAYS BE PROVIDED

GENERAL NOTES:

1. PHASE 3 AND PHASE 7 ARE NOT USED DURING NORMAL OPERATIONS

TRAFFIC CONTROL SIGNAL
STH 35/STH 64 & STH 35/PARENT ST
VILLAGE OF SOMERSET
ST. CROIX COUNTY

SIGNAL NO. S-55-0714

REGION CONTACT: DAVID FENSKE
DESIGNED BY: AECOM
REVISED BY:

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC SIGNAL PLAN	SHEET 100	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - GENERAL\CADD\SHEETS\P-SIG_STH 35 & PARENT ST.DWG
LAYOUT NAME - SOO
PLOT DATE : 10/24/2022 12:32 PM PLOT BY : SALOMONSEN, DEREK PLOT NAME : PLOT SCALE : 1IN:40FT
WISDOT/CADDS SHEET 42

PROJECT ID:	8060-00-70
INTERSECTION:	STH 35/STH 64 & STH 35/PARENT ST

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

DATE: Oct-22

CB1 TO	AWG 14 # OF COND.	HEAD NO.	SIGNAL INDICATION WIRE COLOR										OTHER
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<FLASH YEL>	<GREEN>	D/WALK	WALK	PED	
SB2	12	16				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		18	RED	ORG	GRN								
SB3	12	12	RED	ORG	GRN								
		13	RED	ORG	GRN								
		17				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
SB4	5	41								BLK	BLU		
SB5	12	1	RED	ORG	GRN								
		9				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		15	BLU/BLK				WHT/BLK		BLU				
SB6	12	7	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
SB7	12	14	RED				ORG/BLK		GRN/BLK				
		91								BLK	BLU		
SB8	12	11	RED	ORG	GRN								
		21				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		23								BLK	BLU		
SB9	5	92								BLK	BLU		
SB10	12	8	RED	ORG	GRN								
		42								BLK	BLU		
SB11	12	19	RED	ORG	GRN								
		20	RED	ORG	GRN								
		22				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
SB12	5	24								BLK	BLU		
SB13	12	4				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		6	RED	ORG	GRN								
SB14	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				

EQUIPMENT GROUNDING CONDUCTORS 10 AWG GRN	
FROM	TO
CB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	CB1

LIGHTING UF 12 AWG W/GROUND	
FROM	TO
CB1	SB1
SB1	SB3
SB3	SB6
CB1	SB14
SB14	SB11
SB11	SB7

CAT-5E CABLE VIDEO CAMERA	
FROM	TO
CB1	SB6 (X2)
CB1	SB14

EMERGENCY VEHICLE PREEMPTION		
HEAD	FROM	TO
A	CB1	SB6
B	CB1	SB14
C	CB1	SB3
D	CB1	SB11

NOTES:
1. USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
3. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

LOOP LEAD-IN CABLE FOR PED PUSH BUTTONS	
FROM	TO
CB1	SB4
CB1	SB7
CB1	SB8
CB1	SB9
CB1	SB10
CB1	SB12

STH 35/STH 64 & STH 35/PARENT ST

VILLAGE OF SOMERSET
ST. CROIX COUNTY

CONTROLLER TYPE: ECONOLITE

SIGNAL NO: S-55-0714 CABINET TYPE: TS2

DATE: NOVEMBER 2022 PAGE NO. 4 OF 4

FILE NAME: "C:\OneDrive\AECOM Directory\STH 35 - General\Signal Design\024401_cr.pptx"
ORIGINATOR: DEREK SALOMONSEN ORIG. DATE: JUNE 2021
PLOTTED DATE: 10/19/2022 4:50 PM

2

LEGEND

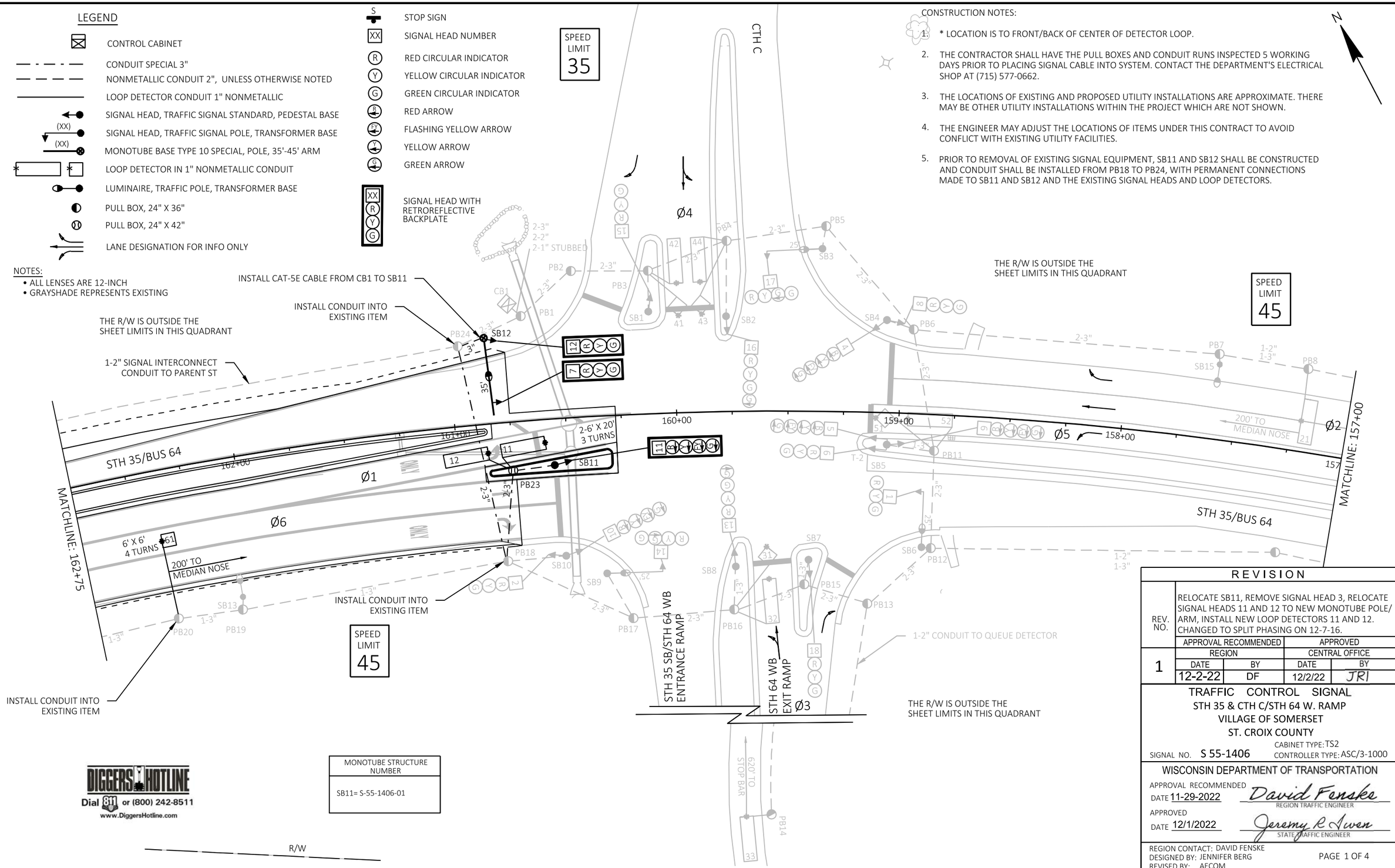
- CONTROL CABINET
- CONDUIT SPECIAL 3"
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE TYPE 10 SPECIAL, POLE, 35'-45' ARM
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- LANE DESIGNATION FOR INFO ONLY

- STOP SIGN
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY FLASHING YELLOW ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- XX SIGNAL HEAD WITH RETROREFLECTIVE BACKPLATE (R, Y, G)

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT/BACK OF CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE DEPARTMENT'S ELECTRICAL SHOP AT (715) 577-0662.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. PRIOR TO REMOVAL OF EXISTING SIGNAL EQUIPMENT, SB11 AND SB12 SHALL BE CONSTRUCTED AND CONDUIT SHALL BE INSTALLED FROM PB18 TO PB24, WITH PERMANENT CONNECTIONS MADE TO SB11 AND SB12 AND THE EXISTING SIGNAL HEADS AND LOOP DETECTORS.



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

MONOTUBE STRUCTURE NUMBER
SB11= S-55-1406-01

REVISION				
REV. NO.	RELOCATE SB11, REMOVE SIGNAL HEAD 3, RELOCATE SIGNAL HEADS 11 AND 12 TO NEW MONOTUBE POLE/ ARM, INSTALL NEW LOOP DETECTORS 11 AND 12. CHANGED TO SPLIT PHASING ON 12-7-16.			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
1	DATE	BY	DATE	BY
	12-2-22	DF	12/2/22	JRI

TRAFFIC CONTROL SIGNAL
STH 35 & CTH C/STH 64 W. RAMP
VILLAGE OF SOMERSET
ST. CROIX COUNTY

SIGNAL NO. S 55-1406
CABINET TYPE: TS2
CONTROLLER TYPE: ASC/3-1000

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 11-29-2022 David Fenske, REGION TRAFFIC ENGINEER

APPROVED
DATE 12/1/2022 Jeremy R Owen, STATE TRAFFIC ENGINEER

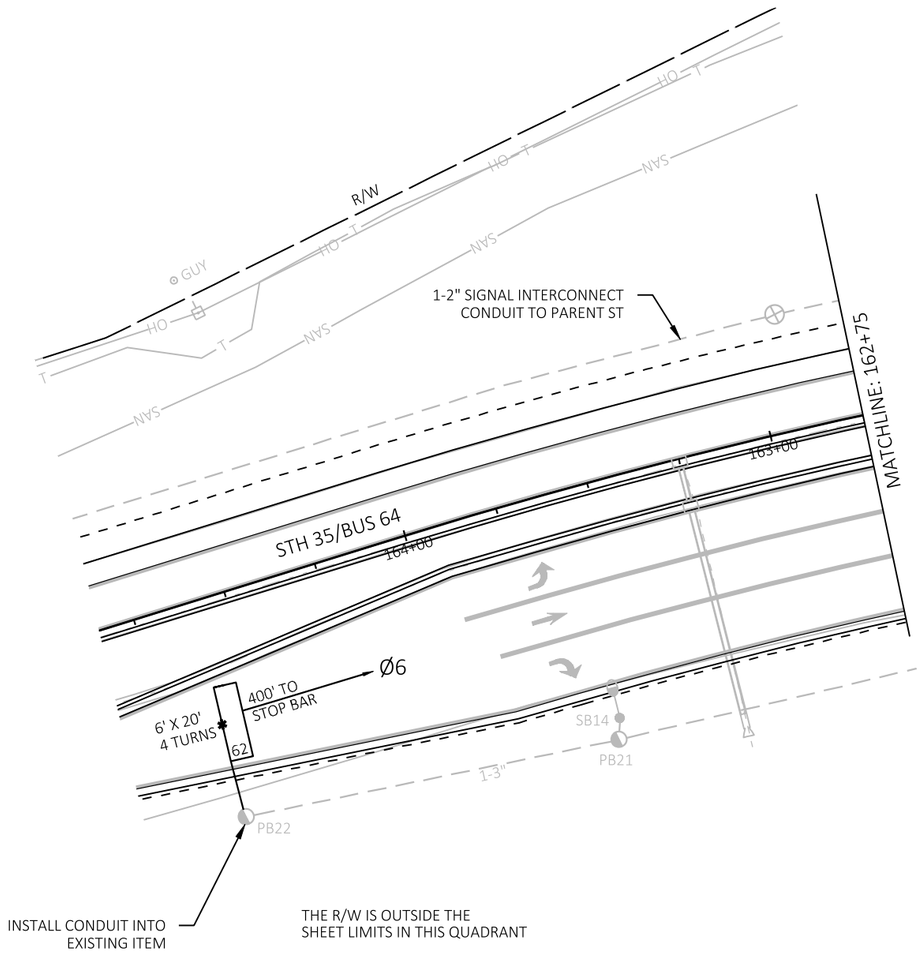
REGION CONTACT: DAVID FENSKE
DESIGNED BY: JENNIFER BERG
REVISED BY: AECOM

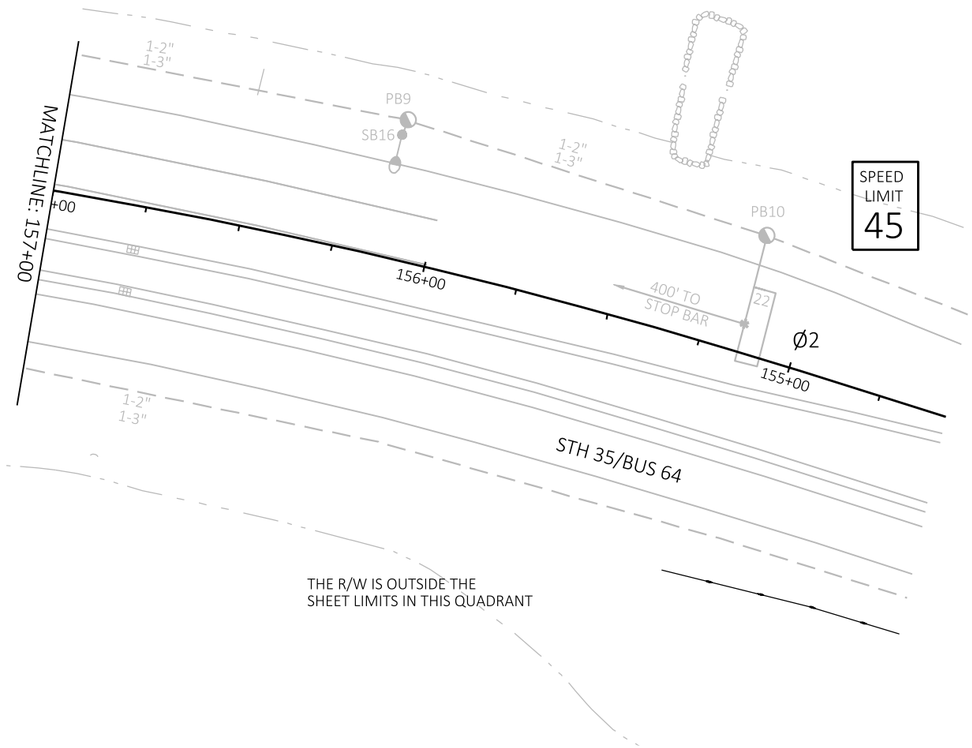
PAGE 1 OF 4

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC SIGNAL PLAN	SHEET 102	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - GENERAL\CADD\SHEETS\P-SIG_STH 35 & CTH C.DWG
LAYOUT NAME - P-Sig
PLOT DATE : 10/25/2022 9:47 AM
PLOT BY : SALOMONSEN, DEREK
PLOT NAME :
PLOT SCALE : 1IN:40FT

2





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

TRAFFIC CONTROL SIGNAL
STH 35 & CTH C/STH 64 W. RAMP
VILLAGE OF SOMERSET
ST. CROIX COUNTY

SIGNAL NO. S 55-1406

REGION CONTACT: DAVID FENSKE
DESIGNED BY: JENNIFER BERG
REVISED BY: AECOM

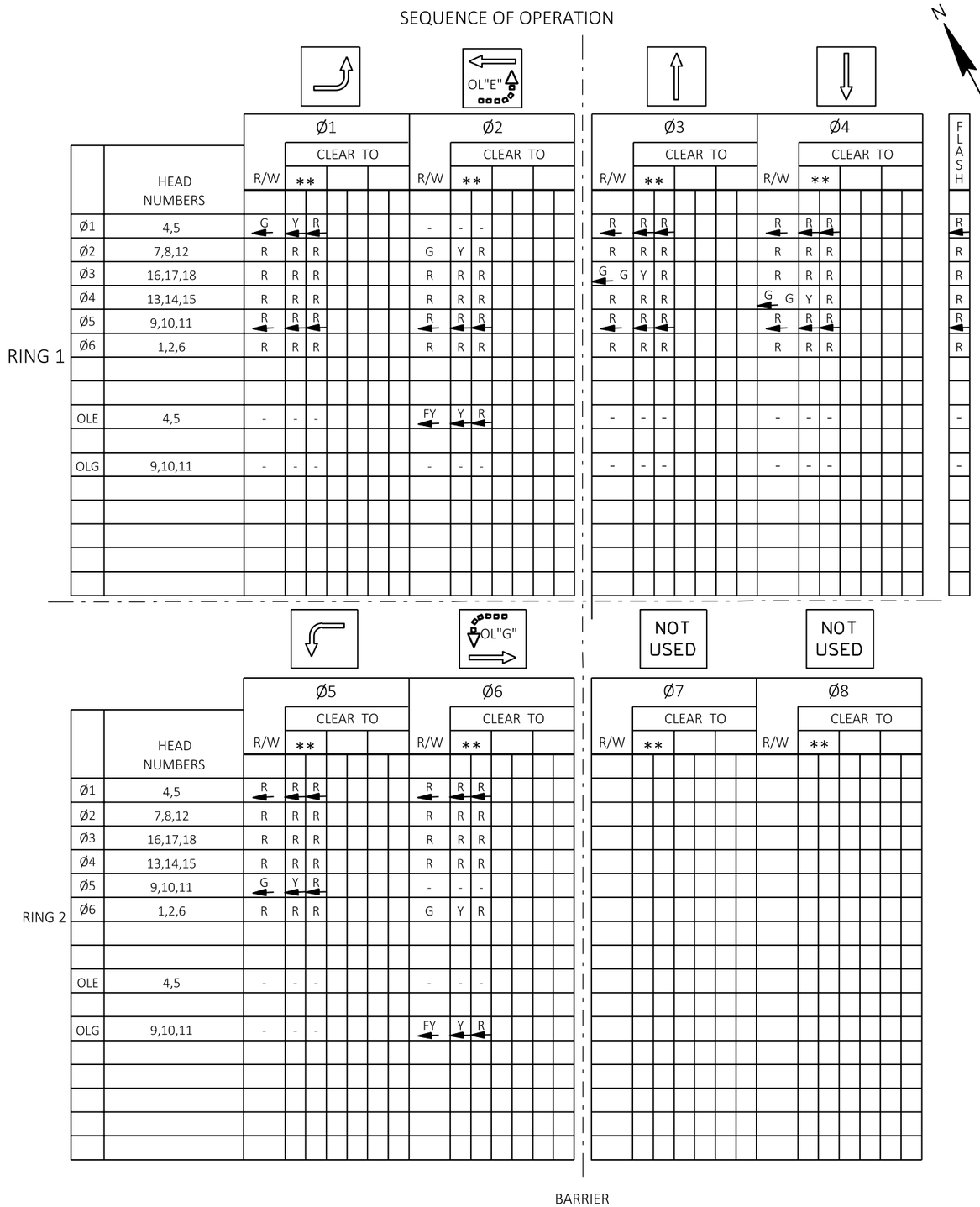
PAGE 2 OF 4

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC SIGNAL PLAN	SHEET 103	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - GENERAL\CADD\SHEETS\P-SIG_STH 35 & CTH C.DWG
LAYOUT NAME - P-Sig(2)
PLOT DATE : 10/25/2022 9:47 AM PLOT BY : SALOMONSEN, DEREK PLOT NAME : PLOT SCALE : 1IN:40FT

2

SEQUENCE OF OPERATION



DETECTOR LOGIC

LOOP NUMBER	DETECTOR NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1	X			1	1				6'X20'	3
12	2	X			1	1				6'X20'	3
21	3	X			2	2				6'X20'	4
22	4	X			2	2				6'X20'	5
31	5	X			3	3				6'X6'	3
32	6	X			3	3				6'X20'	4
33	7		X		3			(X=10")		6'X20'	5
41	8	X			4	4				6'X6'	4
42	9	X			4	4				6'X20'	3
43	10	X			4	4				6'X6'	3
44	11	X			4	4				6'X20'	4
51	12	X			5	5				6'X6'	3
52	13	X			5	5				6'X20'	4
61	14	X			6	6				6'X6'	4
62	15	X			6	6				6'X20'	4

GENERAL NOTES:
1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / I /	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN.	X
3				X
4				X
5		2		X
6	X	2	MIN.	X

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	X
FIBER OPTIC NETWORK	
CELLULAR MODEM	X
*LOCATION OF MASTER CONTROLLER NO:	NO MASTER
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
O.L. "E"	1	2
O.L. "F"		
O.L. "G"	5	6
O.L. "H"		

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	X

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,3,4
2	5 OR 6	1,3,4
3		1,2,4,5,6
4		1,2,3,5,6
5	1 OR 2	3,4,6
6	1 OR 2	3,4,5

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

TRAFFIC CONTROL SIGNAL
STH 35 & CTH C/STH 64 W. RAMP
VILLAGE OF SOMERSET
ST. CROIX COUNTY

SIGNAL NO. S 55-1406

REGION CONTACT: DAVID FENSKE
DESIGNED BY: JENNIFER BERG
REVISED BY: AECOM

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	SEQUENCE OF OPERATIONS	SHEET 104	E

FILE NAME : C:\ONEDRIVE\AECOM DIRECTORY\STH 35 - GENERAL\CADD\SHEETS\P-SIG_STH 35 & CTH C.DWG
LAYOUT NAME - SOO
PLOT DATE : 10/25/2022 9:47 AM PLOT BY : SALOMONSEN, DEREK PLOT NAME : PLOT SCALE : 1IN:40FT
WISDOT/CADDS SHEET 42

2

PROJECT ID:	8060-00-70
INTERSECTION:	STH 35 & CTH C/STH 64 W. RAMP

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

DATE: Oct-22

CB1 TO	AWG 14 # OF COND.	HEAD NO.	SIGNAL INDICATION WIRE COLOR										OTHER
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<FLASH YEL>	<GREEN>	D/WALK	WALK	PED	
SB1	EXISTING		EXISTING										
SB2	EXISTING	16	EXISTING										
SB3	EXISTING	17	EXISTING										
SB4	EXISTING	4	EXISTING										
		8	EXISTING										
SB5	EXISTING	5	EXISTING										
		6	EXISTING										
		9	EXISTING										
SB6	EXISTING	1	EXISTING										
SB7	12	18	RED	ORG	GRN								
SB8	12	13	RED	ORG	GRN				GRN/BLK				
SB9	12	14	RED	ORG	GRN				GRN/BLK				
SB10	12	2	RED	ORG	GRN								
		10				RED/BLK	ORG/BLK	WHT/BLK	GRN/BLK				
SB11	12	11				RED/BLK	ORG/BLK	WHT/BLK	GRN/BLK				
SB12	12	7	RED	ORG	GRN								
		12	RED	ORG	GRN								

NOTES:
1. USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
3. REESTABLISH THE EXISTING EQUIPMENT GROUNDING CONDUCTOR FROM BASE TO BASE FOR ALL SIGNAL BASES, IN ACCORDANCE WITH THE WISCONSIN ELECTRIC CODE.
4. EXISTING WIRES INTERNAL TO SB7, SB8, SB9, AND SB10 POLES ARE TO REMAIN IN-PLACE AND NEW TRAFFIC SIGNAL CABLE IS TO BE PULLED FROM THE CABINET TO BASES.

EQUIPMENT CONDUCTORS 10 AWG	
FROM	TO
SB10	SB11
SB11	SB12
SB12	CB1

LIGHTING UF 12 AWG W/GROUND	
FROM	TO
CB1	SB12
SB12	SB9
CB1	SB3
SB3	SB6

PULL BOX GROUNDING 10 AWG	
FROM	TO
PB23	SB11
PB24	SB12

CAT-5E CABLE VIDEO CAMERA	
FROM	TO
CB1	SB12

STH 35 & CTH C/STH 64 W. RAMP

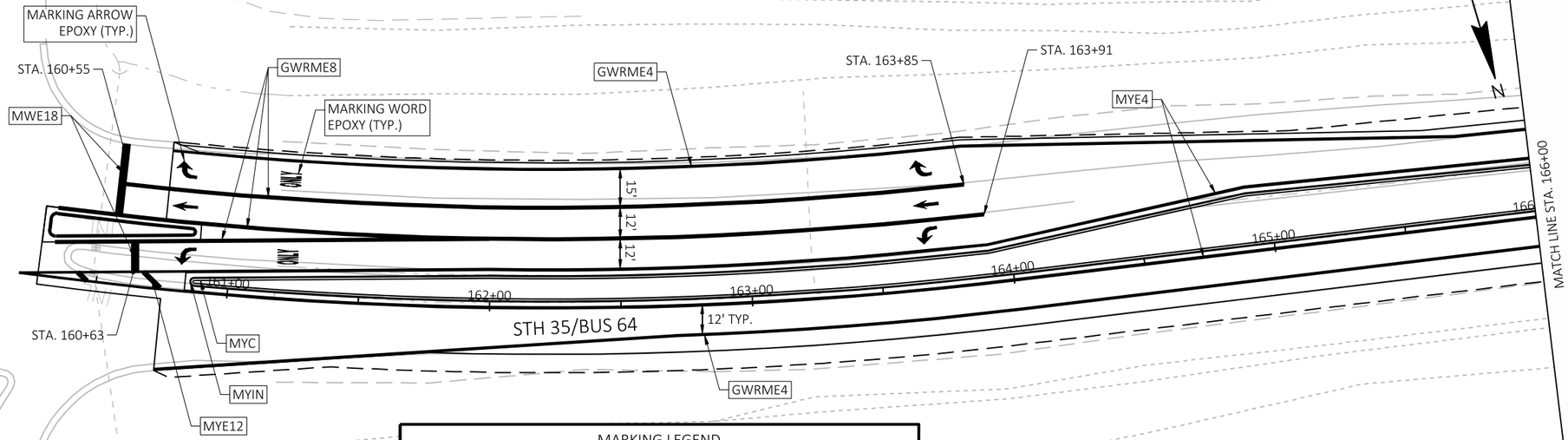
VILLAGE OF SOMERSET
ST. CROIX COUNTY

CONTROLLER TYPE: ASC/3-1000

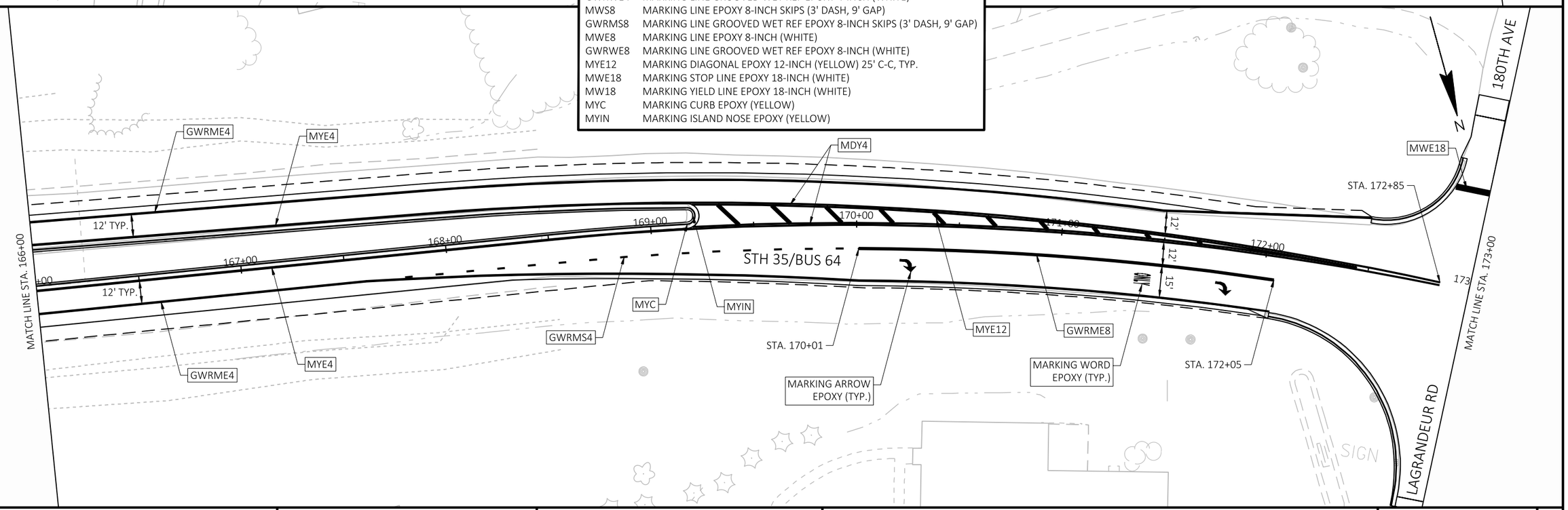
SIGNAL NO: S 55-1406 CABINET TYPE: TS2

DATE: NOVEMBER 2022 PAGE NO. 4 OF 4

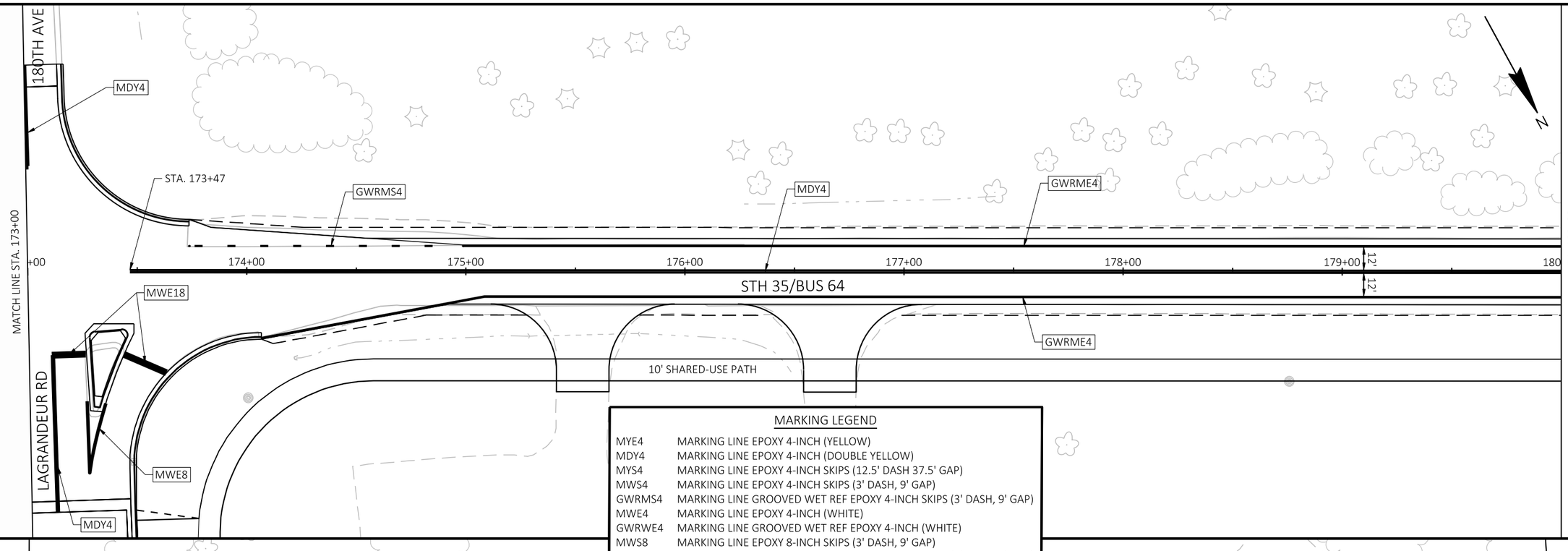
2



MARKING LEGEND	
MYE4	MARKING LINE EPOXY 4-INCH (YELLOW)
MDY4	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
MYS4	MARKING LINE EPOXY 4-INCH SKIPS (12.5' DASH 37.5' GAP)
MWS4	MARKING LINE EPOXY 4-INCH SKIPS (3' DASH, 9' GAP)
GWRMS4	MARKING LINE GROOVED WET REF EPOXY 4-INCH SKIPS (3' DASH, 9' GAP)
MWE4	MARKING LINE EPOXY 4-INCH (WHITE)
GWRWE4	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
MWS8	MARKING LINE EPOXY 8-INCH SKIPS (3' DASH, 9' GAP)
GWRMS8	MARKING LINE GROOVED WET REF EPOXY 8-INCH SKIPS (3' DASH, 9' GAP)
MWE8	MARKING LINE EPOXY 8-INCH (WHITE)
GWRWE8	MARKING LINE GROOVED WET REF EPOXY 8-INCH (WHITE)
MYE12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW) 25' C-C, TYP.
MWE18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
MW18	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
MYC	MARKING CURB EPOXY (YELLOW)
MYIN	MARKING ISLAND NOSE EPOXY (YELLOW)

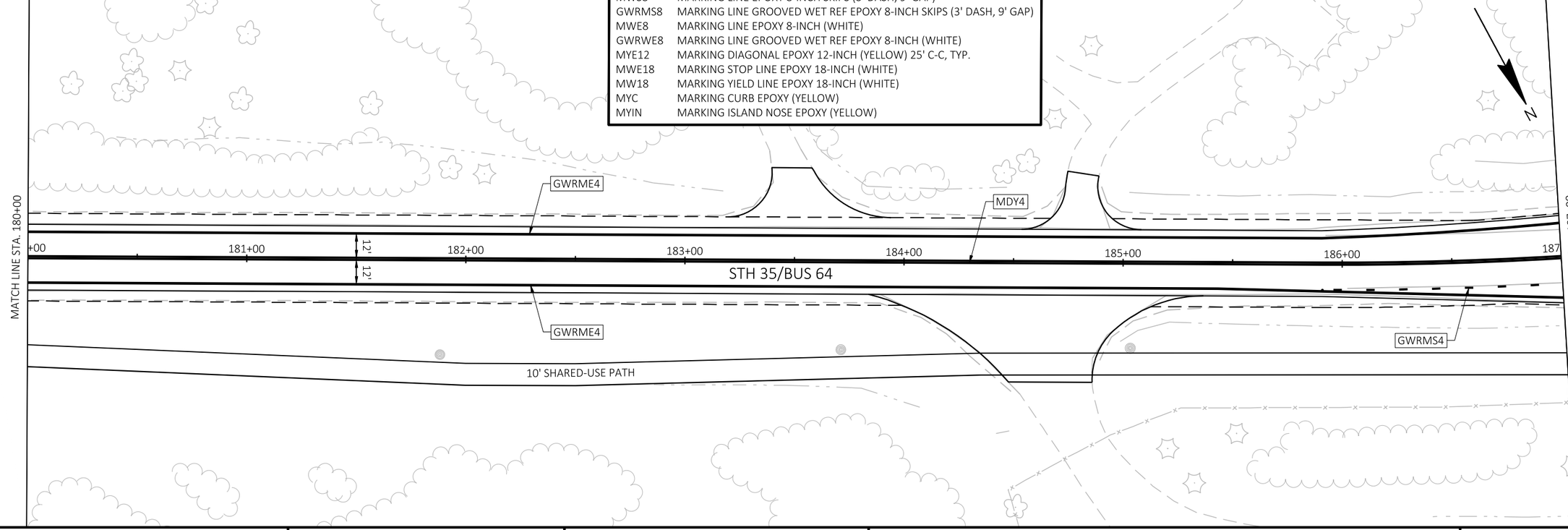


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 106	E



MARKING LEGEND

MYE4	MARKING LINE EPOXY 4-INCH (YELLOW)
MDY4	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
MYS4	MARKING LINE EPOXY 4-INCH SKIPS (12.5' DASH 37.5' GAP)
MWS4	MARKING LINE EPOXY 4-INCH SKIPS (3' DASH, 9' GAP)
GWRMS4	MARKING LINE GROOVED WET REF EPOXY 4-INCH SKIPS (3' DASH, 9' GAP)
MWE4	MARKING LINE EPOXY 4-INCH (WHITE)
GWRWE4	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
MWS8	MARKING LINE EPOXY 8-INCH SKIPS (3' DASH, 9' GAP)
GWRMS8	MARKING LINE GROOVED WET REF EPOXY 8-INCH SKIPS (3' DASH, 9' GAP)
MWE8	MARKING LINE EPOXY 8-INCH (WHITE)
GWRWE8	MARKING LINE GROOVED WET REF EPOXY 8-INCH (WHITE)
MYE12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW) 25' C-C, TYP.
MWE18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
MW18	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
MYC	MARKING CURB EPOXY (YELLOW)
MYIN	MARKING ISLAND NOSE EPOXY (YELLOW)



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 107	E

2

STA. 187+50

GWRME4

STA. 189+33

MDY4

STA. 190+59

MARKING WORD EPOXY (TYP.)

GWRME8

STA. 193+11

GWRMS8

N

MATCH LINE STA. 187+00

MATCH LINE STA. 194+00

188+00

STH 35/BUS 64

189+00

190+00

191+00

192+00

193+00

STH 35/BUS 64

194

12'

12'

12'

12'

GWRMS4

GWRME4

GWRME8

10' SHARED-USE PATH

MARKING ARROW EPOXY (TYP.)

GWRME4

EXISTING SHARED-USE PATH

MARKING LEGEND

MYE4	MARKING LINE EPOXY 4-INCH (YELLOW)
MDY4	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
MYS4	MARKING LINE EPOXY 4-INCH SKIPS (12.5' DASH 37.5' GAP)
MWS4	MARKING LINE EPOXY 4-INCH SKIPS (3' DASH, 9' GAP)
GWRMS4	MARKING LINE GROOVED WET REF EPOXY 4-INCH SKIPS (3' DASH, 9' GAP)
MWE4	MARKING LINE EPOXY 4-INCH (WHITE)
GWRWE4	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
MWS8	MARKING LINE EPOXY 8-INCH SKIPS (3' DASH, 9' GAP)
GWRMS8	MARKING LINE GROOVED WET REF EPOXY 8-INCH SKIPS (3' DASH, 9' GAP)
MWE8	MARKING LINE EPOXY 8-INCH (WHITE)
GWRWE8	MARKING LINE GROOVED WET REF EPOXY 8-INCH (WHITE)
MYE12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW) 25' C-C, TYP.
MWE18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
MW18	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
MYC	MARKING CURB EPOXY (YELLOW)
MYIN	MARKING ISLAND NOSE EPOXY (YELLOW)

SIGN

PARENT ST

MDY4

MWE8

MW18

MWE8

N

STA. 198+99

GWRMS8

MDY4

GWRME4

STA. 197+48

STA. 197+48

12'

12'

MAIN STREET

12'

12'

MWE18

200+00

MATCH LINE STA. 194+00

195+00

196+00

197+00

198+00

199+00

12'

12'

12'

12'

STH 35/BUS 64

MDY4

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (TYP.)

EXISTING SHARED-USE PATH

GWRME4

STA. 197+09

GWRME8

10' SHARED-USE PATH

STA. 196+52

MARKING WORD EPOXY (TYP.)

STA. 199+28

(CHURCH HILL RD)

STH 35

201+50

STA. 200+59

MARKING ARROW EPOXY (TYP.)

STA. 200+50

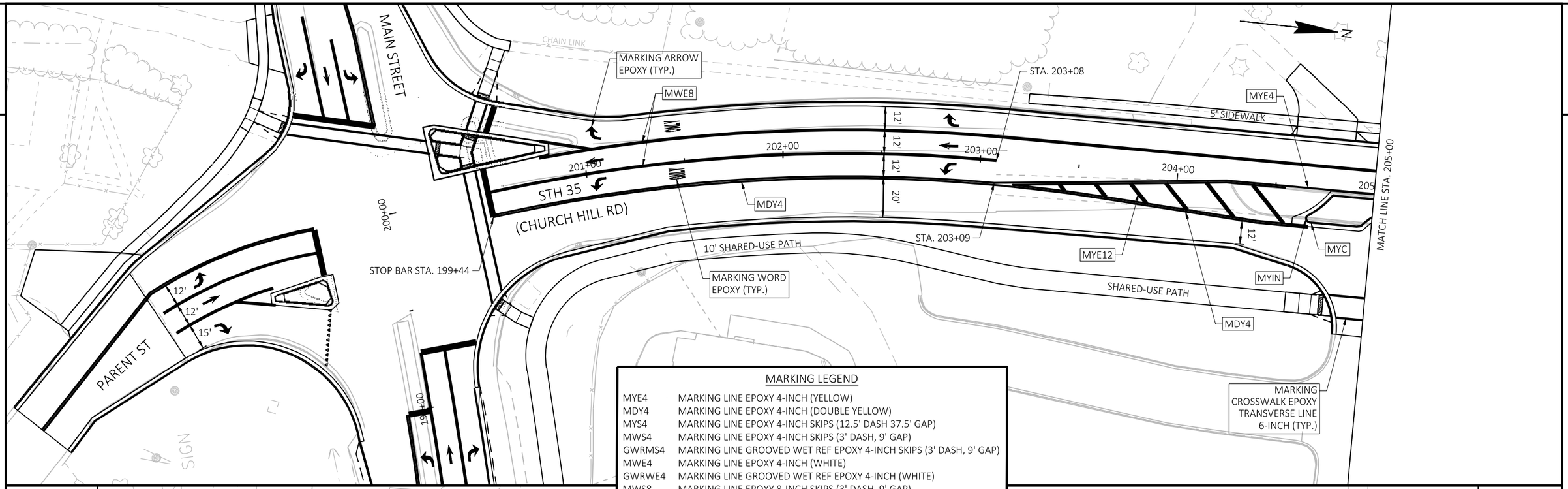
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 108	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024503

PLOT DATE : 11/1/2022 7:57 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

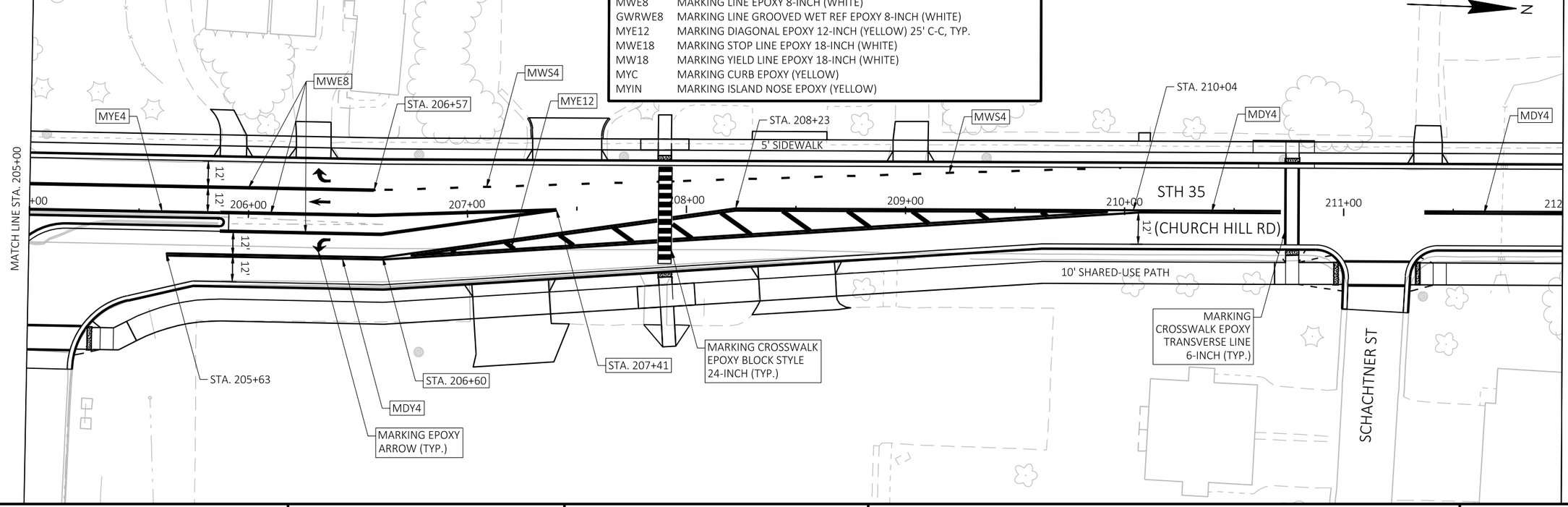
WISDOT/CADDS SHEET 44

2



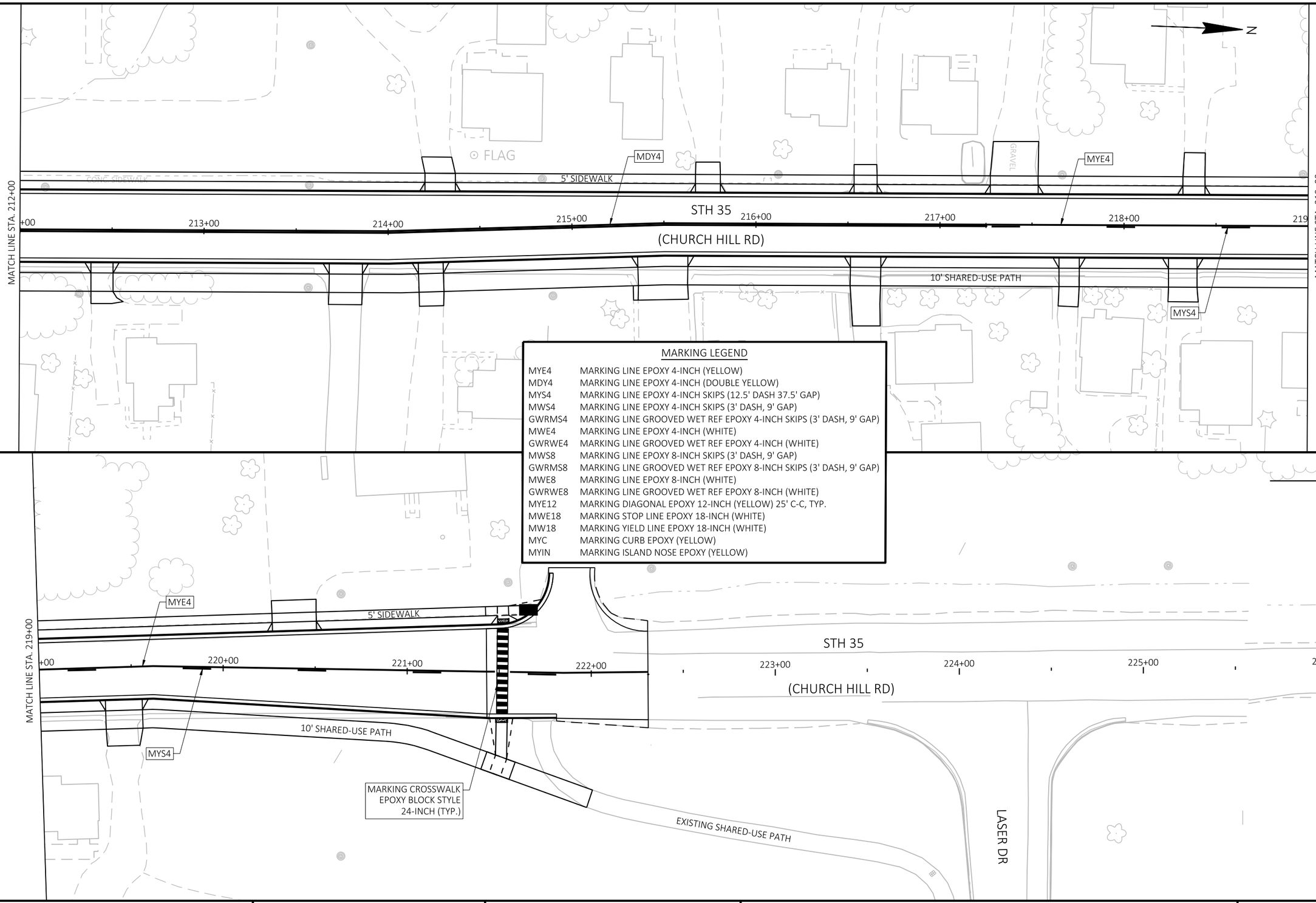
MARKING LEGEND

MYE4	MARKING LINE EPOXY 4-INCH (YELLOW)
MDY4	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
MYS4	MARKING LINE EPOXY 4-INCH SKIPS (12.5' DASH 37.5' GAP)
MWS4	MARKING LINE EPOXY 4-INCH SKIPS (3' DASH, 9' GAP)
GWRMS4	MARKING LINE GROOVED WET REF EPOXY 4-INCH SKIPS (3' DASH, 9' GAP)
MWE4	MARKING LINE EPOXY 4-INCH (WHITE)
GWRWE4	MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)
MWS8	MARKING LINE EPOXY 8-INCH SKIPS (3' DASH, 9' GAP)
GWRMS8	MARKING LINE GROOVED WET REF EPOXY 8-INCH SKIPS (3' DASH, 9' GAP)
MWE8	MARKING LINE EPOXY 8-INCH (WHITE)
GWRWE8	MARKING LINE GROOVED WET REF EPOXY 8-INCH (WHITE)
MYE12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW) 25' C-C, TYP.
MWE18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
MW18	MARKING YIELD LINE EPOXY 18-INCH (WHITE)
MYC	MARKING CURB EPOXY (YELLOW)
MYIN	MARKING ISLAND NOSE EPOXY (YELLOW)



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 109	E

2



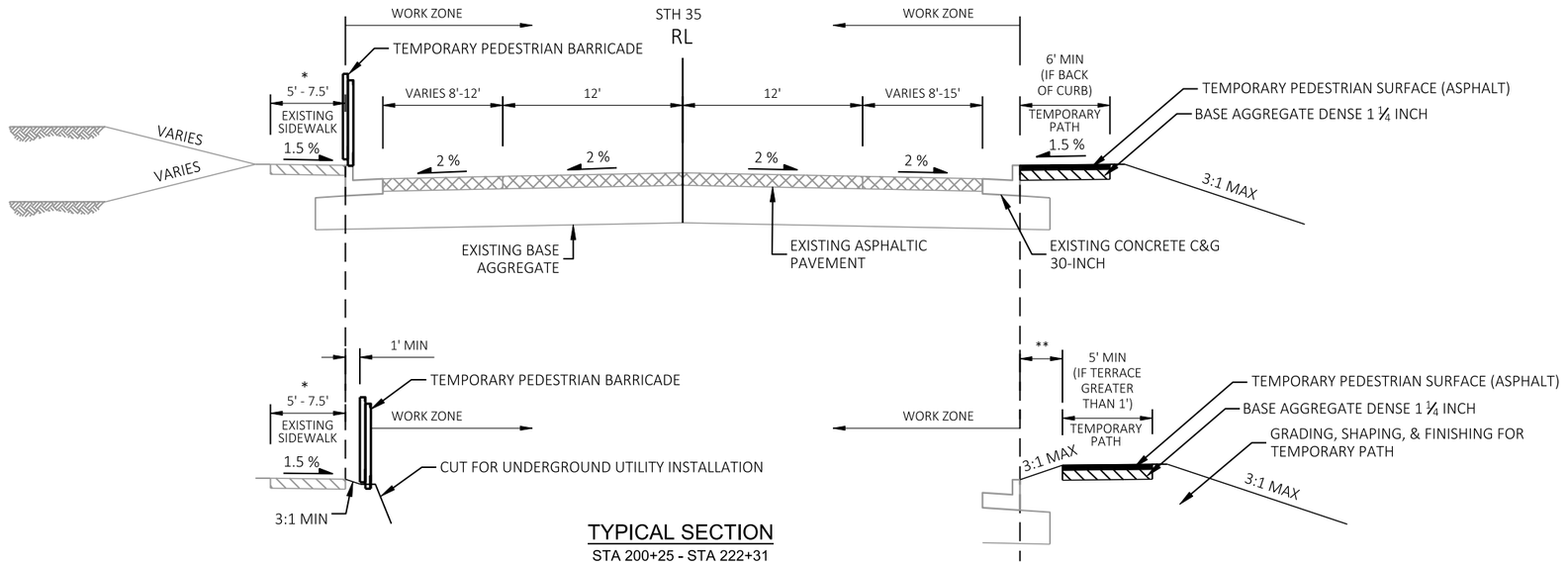
2

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 110	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024505
PLOT DATE : 10/30/2022 7:51 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

* SEE NOTE 1

** SEE NOTE 2



TYPICAL SECTION

STA 200+25 - STA 222+31

PEDESTRIAN ACCESS NOTES

1. MAINTAIN AN ADA ACCESSIBLE PEDESTRIAN ACCESS, 6-FT WIDE DESIRABLE (4-FT MINIMUM) ON EITHER THE EXISTING SIDEWALK OR A TEMPORARY SURFACE TO ALL BUSINESS AND RESIDENTIAL ENTRANCES ALONG MILITARY ROAD THROUGH THE WORK ZONE AS LONG AS POSSIBLE. IF A 4-FT WIDE PEDESTRIAN ACCESS IS NECESSARY, INSTALL PASSING ZONES AS SHOWN ON STANDARD DETAIL DRAWING "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION."

2. PROVIDE PROTECTION FROM ANY DROP-OFF EXCEEDING 6-INCHES AND INSTALL A TEMPORARY PEDESTRIAN BARRICADE BETWEEN THE PEDESTRIAN ACCESS AND THE WORK ZONE.

3. WHEN REMAINING SIDEWALKS NEED TO BE REMOVED FOR REPLACEMENT, THE CONTRACTOR SHALL HAVE THE BASE COURSE MATERIAL LEVELED AND COMPACTED IN THE REMOVAL AREAS WITHIN 24 HOURS, AND THE NEW CONCRETE SIDEWALK MUST BE IN PLACE AND AVAILABLE FOR PEDESTRIAN USE WITHIN THE SAME WORK WEEK. CLOSURE OF SIDEWALK MUST BE APPROVED BY THE ENGINEER AND BE LIMITED TO ONE SIDE OF THE STREET AT A TIME TO MAINTAIN PEDESTRIAN ACCESS ALONG STH 35 AND MAIN STREET (THE CONTRACTOR WILL ONLY BE ABLE TO REMOVE THE SIDEWALK ON ONE SIDE OF THE STREET AT A TIME).

4. THE CONTRACTOR SHALL COORDINATE WITH LOCAL BUSINESSES WHEN ACCESS TO THE BUSINESS WILL BE CLOSED OFF FOR SIDEWALK INSTALLATION AND ANY OTHER WORK THAT MAY IMPACT PEDESTRIAN ACCESS.

5. PROVIDE A SINGLE TEMPORARY CROSSWALK AT THE STH 35/MAIN STREET, KWIK TRIP, SAINT ANNES CHURCH AND SCHOOL ENTRANCE, AND SCHACHTNER STREET INTERSECTIONS TO ALLOW PEDESTRIAN PASSAGE THROUGH THE STH 35 WORK ZONES AT ALL TIMES.

6. TEMPORARY CROSSWALKS SHALL BE MOVED AS NEEDED TO PROVIDE CONTINUOUS PEDESTRIAN ACCESS THROUGHOUT THE WORK ZONE.

7. SURFACE APPLIED DETECTABLE WARNING FIELDS AND 4-INCH PVC PIPE (IF NECESSARY FOR DRAINAGE) SHALL BE INCIDENTAL TO THE "TEMPORARY CURB RAMP" BID ITEM.

8. PLACE 4" TEMPORARY PEDESTRIAN SURFACE (ASPHALT) OVER 4" BASE AGGREGATE DENSE 1 ¼ INCH AT LOCATIONS WHERE EXISTING SIDEWALK IS REMOVED FOR TIE-INS.

9. SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

2

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED AHEAD
R9-9A
30"X18"

DETOUR
M4-9BR
30"X24"

DETOUR
M4-9BL
30"X24"

INSTALL SIGNS ON TEMPORARY SIGN SUPPORTS AT CROSSINGS AS DETERMINED BY SEQUENCE OF OPERATIONS.

ADJUST TEMPORARY SIGN SUPPORT LOCATIONS AS NEEDED AT CROSSING LOCATIONS.

LEGEND

- EXISTING SIDEWALK
- TEMPORARY PEDESTRIAN SURFACE (ASPHALT)
- TEMPORARY PEDESTRIAN SURFACE (MATTING)
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY PEDESTRIAN CURB RAMP WITH TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD

RIVER ST

APPLE RIVER

N

EXISTING R/W

MATCH LINE STA. 201+00

STH 35
(CHURCH HILL RD)

STH 35/BUS 64

B-55-0920

MAIN STREET

8+00 'M'

9+00 'M'

10+00 'M'

200+00

199+00

198+00

BEGIN CONSTRUCTION
STA 8+11M

PARENT ST

EXISTING R/W

TLE

FEE

RLE

TLE

TLE

FEE

TLE

5' SIDEWALK

STH 35
(CHURCH HILL RD)

202+00

203+00

204+00

205+00

206+00

207+00

208

MATCH LINE STA. 201+00

MATCH LINE STA. 208+00

EXISTING R/W

FEE

TLE

KWIK TRIP
ENTRANCE

11+00 'M'

FEE

TLE

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TEMPORARY PEDESTRIAN ACCOMMODATION PLAN	SHEET 112	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\021006_PED ACCOM.DWG
LAYOUT NAME - ped 1

PLOT DATE : 10/25/2022 11:30 AM PLOT BY : JARED HANN PLOT NAME : PLOT SCALE : ##########

2

2

N

PLE

TLE

TLE

EXISTING R/W

⊙ FLAG

EXISTING R/W

MATCH LINE STA. 208+00

STH 35

(CHURCH HILL RD)

+00 209+00 210+00 211+00 212+00 213+00 214+00 215

MATCH LINE STA. 215+00

EXISTING R/W

FEE

TLE

TLE

SCHACHTNER ST

11+00 S.

EXISTING R/W

TLE

FEE

TLE

FEE

LEGEND

EXISTING SIDEWALK

TEMPORARY PEDESTRIAN SURFACE (ASPHALT)

TEMPORARY PEDESTRIAN SURFACE (MATTING)

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN CURB RAMP WITH TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD

N

TLE

GRAVEL

EXISTING R/W

MATCH LINE STA. 215+00

STH 35

(CHURCH HILL RD)

+00 216+00 217+00 218+00 219+00 220+00 221+00 222+00

TLE

EXISTING R/W

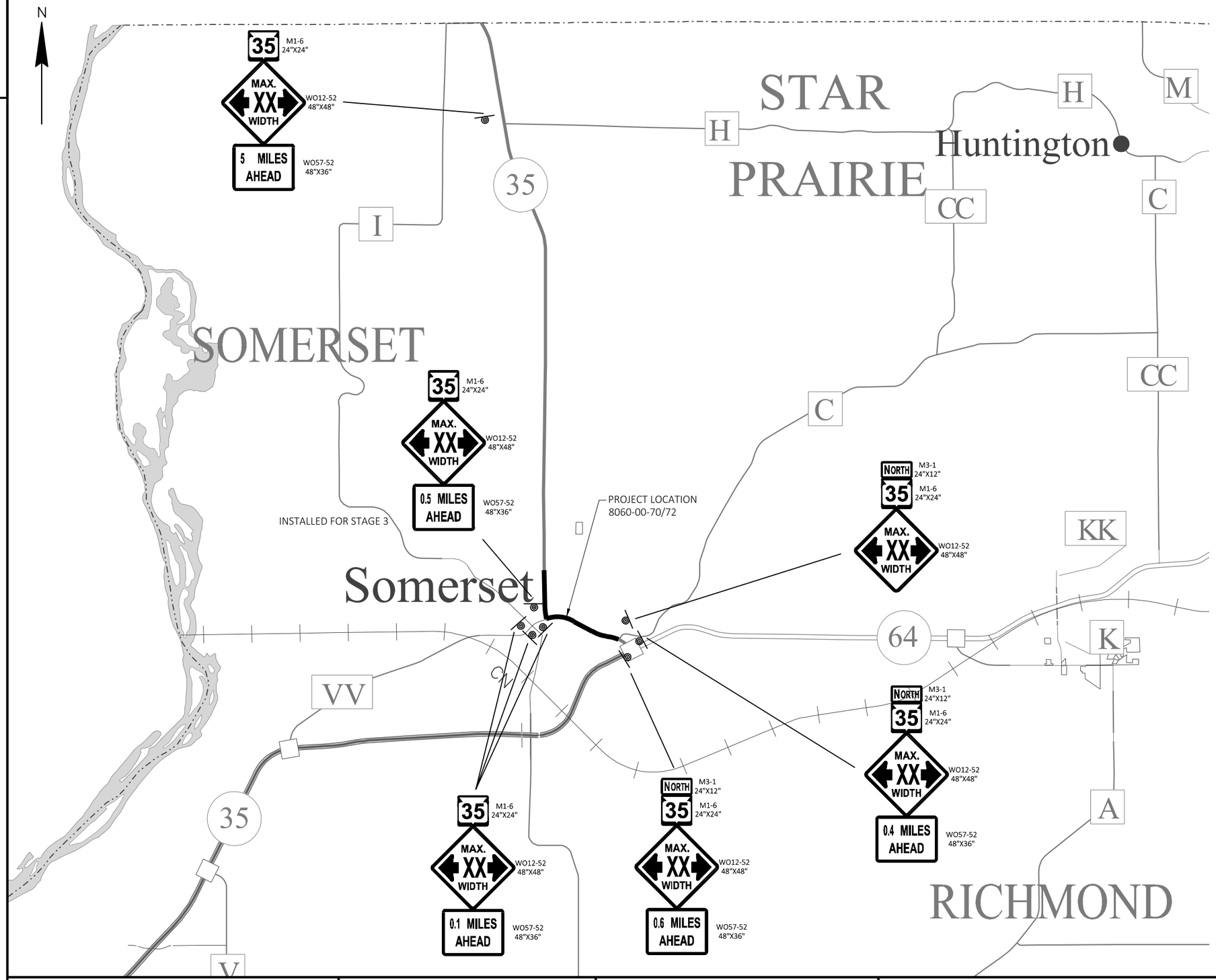
10' SHARED-USE PATH

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TEMPORARY PEDESTRIAN ACCOMMODATION PLAN	SHEET 113	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\021006_PED ACCOM.DWG
LAYOUT NAME - ped 2

PLOT DATE : 10/25/2022 11:30 AM PLOT BY : JARED HANN PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY ENGINEER.

ALL SIGNS SHOWN ON PAGE ARE TO BE PAID FOR AS "TRAFFIC CONTROL SIGNS" UNLESS OTHERWISE INDICATED.

FOR DETAILS NOT SHOWN SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCED WIDTH RESTRICTION SIGNING".

"MO" AND "WO" SIGNS ARE THE SAME AS "M" AND "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

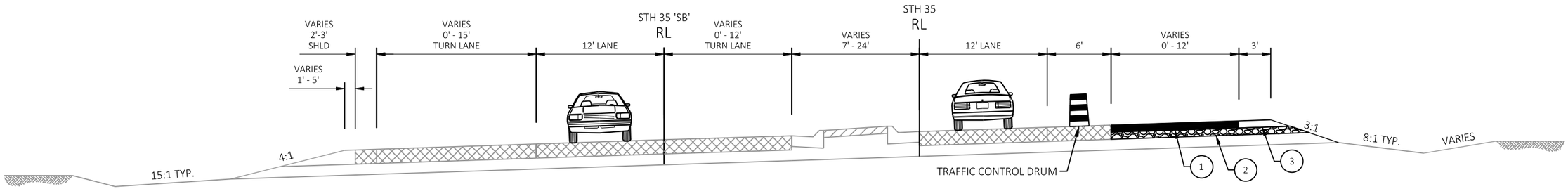
ANY SIGN, TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

MAX WIDTHS

XX = 11' FOR STAGE 1
XX = 9' FOR STAGE 2
XX = 12' FOR STAGE 3
XX = 11' FOR STAGE 4

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - ADVANCED WIDTH RESTRICTION	SHEET 114	E

2

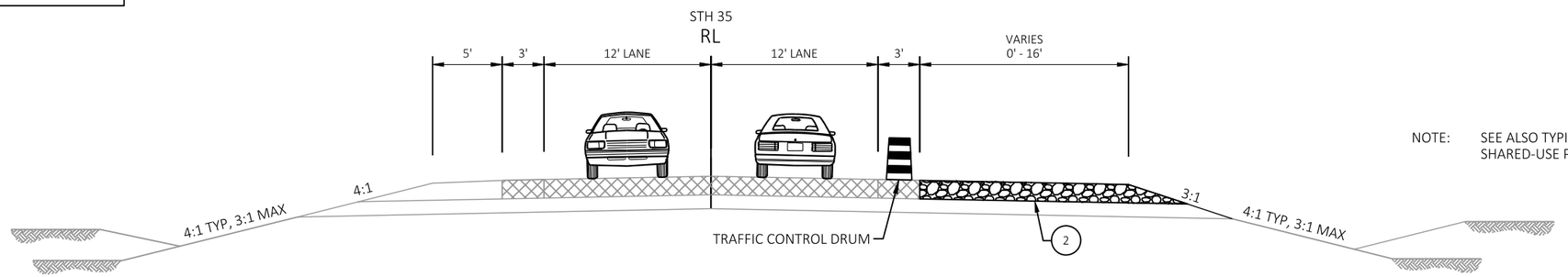


FINISHED TYPICAL SECTION - STAGE 1

CONSTRUCT NB TEMPORARY WIDENING
STA 160+00 - STA 174+00

LEGEND

1. 4" ASPHALTIC SURFACE TEMPORARY
2. 10" BASE AGGREGATE DENSE 1 1/4-INCH
3. 4" BASE AGGREGATE DENSE 3/4-INCH



NOTE: SEE ALSO TYPICAL FINISHED SECTION OF SHARED-USE PATH ADJACENT TO STH 35

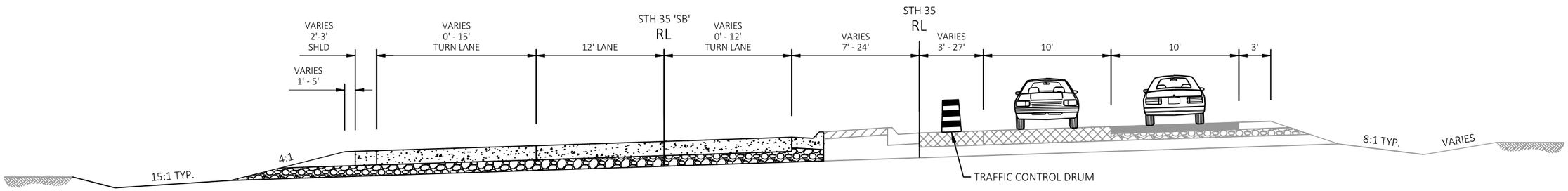
TRAFFIC CONTROL TYPICAL SECTION - STAGE 1

CONSTRUCT NB TEMPORARY WIDENING
STA 174+00 - STA 195+00

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL STAGE 1	SHEET 115	E

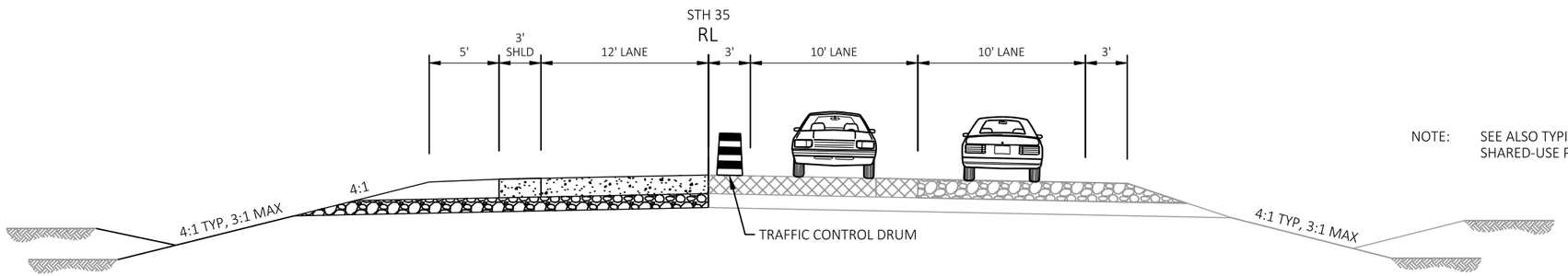
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - TYPICAL.DWG
LAYOUT NAME - 025101-tc
PLOT DATE : 10/13/2022 1:02 PM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



FINISHED TYPICAL SECTION - STAGE 2

CONSTRUCT SB STH 35
STA 160+00 - STA 174+00

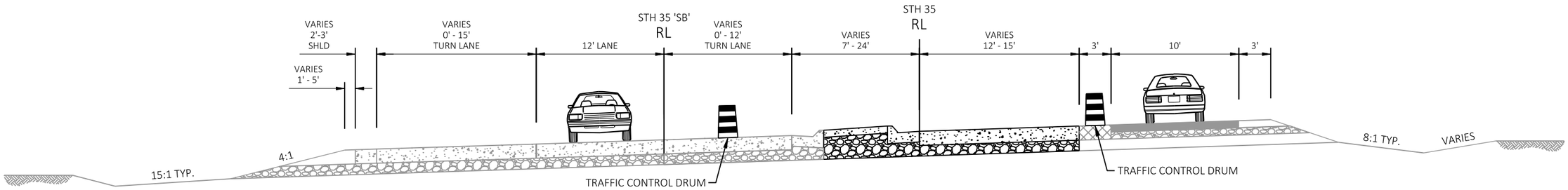


NOTE: SEE ALSO TYPICAL FINISHED SECTION OF SHARED-USE PATH ADJACENT TO STH 35

TRAFFIC CONTROL TYPICAL SECTION - STAGE 2

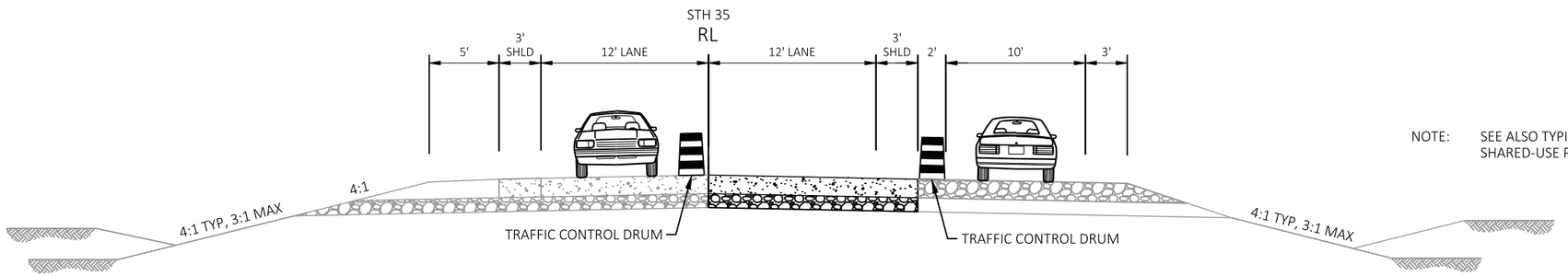
CONSTRUCT SB STH 35
STA 174+00 - STA 195+00

2



FINISHED TYPICAL SECTION - STAGE 3

CONSTRUCT NB INSIDE LANE
STA 160+00 - STA 174+00



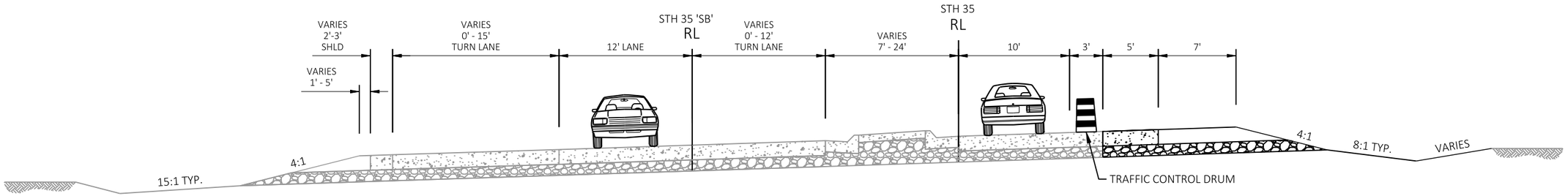
NOTE: SEE ALSO TYPICAL FINISHED SECTION OF SHARED-USE PATH ADJACENT TO STH 35

TRAFFIC CONTROL TYPICAL SECTION - STAGE 3

CONSTRUCT NB CONCRETE
STA 174+00 - STA 195+00

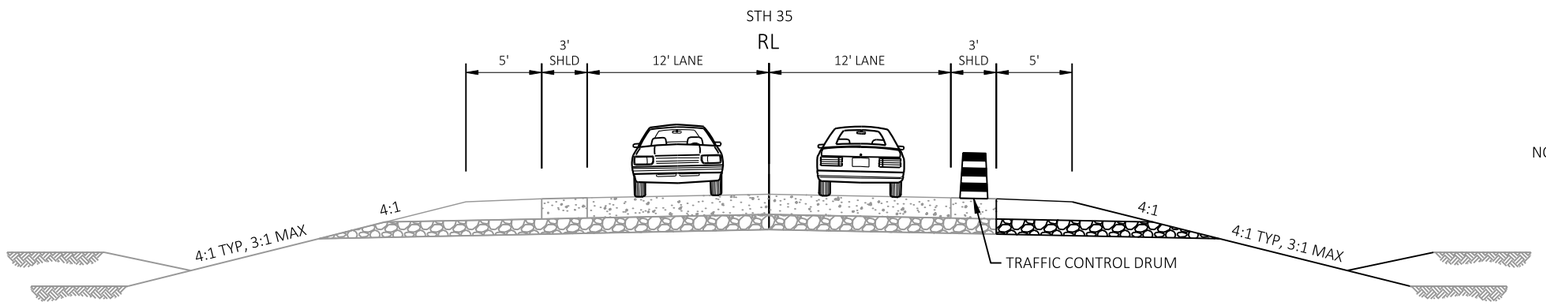
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL STAGE 3	SHEET 117	E

2



FINISHED TYPICAL SECTION - STAGE 4

CONSTRUCT NB SHOULDER AND LAGRANDUER RD INTERSECTION
STA 160+00 - STA 174+00



TRAFFIC CONTROL TYPICAL SECTION - STAGE 4

CONSTRUCT NB SHOULDER AND MULTI USE PATH
STA 174+00 - STA 195+00

NOTE: SEE ALSO TYPICAL FINISHED SECTION OF SHARED-USE PATH ADJACENT TO STH 35

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS, STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC", AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

R3-2
24"X24"

159+00 'SB'
159+00
160+00 'SB'
160+00
161+00 'SB'
161+00
162+00 'SB'
162+00
163+00 'SB'
164+00 'SB'
164+00
165+00 'SB'
165+00
166+
166+00

14'
12'
12'

N

MATCH LINE STA. 166+00

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

STH 35/BUS 64

15' TYP

25' TYP

50' TYP

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS, STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC", AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS, STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC", AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

CTH C

PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE (YELLOW)

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- BASE AGGREGATE DENSE (SEE TYPICAL SECTION)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

180TH AVE

N

MATCH LINE STA. 166+00

167+00 'SB'
167+00
168+00 'SB'
168+00
169+00 'SB'
169+00
170+00 'SB'
170+00
171+00 'SB'
171+00
172+00 'SB'
172+00
173+00
173+00

12'
12'

STH 35/BUS 64

50' TYP

25' TYP

MATCH LINE STA. 173+00

LAGRANDEUR RD

SIGN

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1	SHEET 119	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - STAGING.DWG
LAYOUT NAME - 025101_tc - STG 1

PLOT DATE : 11/1/2022 6:50 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

180TH AVE

19+00 'TH'

MATCH LINE STA. 173+00

20+00 'TH'

LAGRANDEUR RD

21+00 'TH'

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

REMOVING CURB & GUTTER
REMOVING CONCRETE PAVEMENT
ASPHALTIC SURFACE TEMPORARY

STH 35/BUS 64

174+00 175+00 176+00 177+00 178+00 179+00 180

MATCH LINE STA. 180+00

25' TYP

12'

12'

50' TYP

REMOVING CURB & GUTTER
ASPHALTIC SURFACE TEMPORARY

CULVERT PIPE TEMPORARY 18-INCH
STA 175+32, 41' RT. IE = 901.00
STA 175+77, 41' RT. IE = 901.23

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- BASE AGGREGATE DENSE (SEE TYPICAL SECTION)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)

PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE (YELLOW)

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

MATCH LINE STA. 180+00

+00 181+00 182+00 183+00 184+00 185+00 186+00 187

12'

12'

STH 35/BUS 64

25' TYP

50' TYP

MATCH LINE STA. 187+00

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1	SHEET 120	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - STAGING.DWG
LAYOUT NAME - 025102_tc - STG 1

PLOT DATE : 11/1/2022 6:50 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

N

MATCH LINE STA. 187+00

188+00

189+00

12'

12'

190+00

191+00

STH 35/BUS 64

192+00

193+00

MATCH LINE STA. 194+00

50' TYP

STOP

R1-1
30"X30"

SHARED-USE PATH

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- BASE AGGREGATE DENSE (SEE TYPICAL SECTION)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)

PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE (YELLOW)

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

PARENT ST

9+00 'M'

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

N

MAIN STREET

MATCH LINE STA. 194+00

12'

12'

195+00

196+00

197+00

198+00

199+00

200+00

10+00 'M'

9+00 'M'

STH 35/BUS 64

STA 194+75 RT REMOVING ENDWALLS
CULVERT PIPE TEMPORARY 24-INCH
STA 194+51.5, 38.5' RT. IE = 879.80
STA 194+74.6, 26.6' RT. IE = 878.12
CONCRETE COLLARS FOR PIPE

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

STH 35
(CHURCH HILL RD)

201+00

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 1	SHEET 121	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - STAGING.DWG
LAYOUT NAME - 025103_tc - STG 1

PLOT DATE : 11/1/2022 6:50 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

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

25' TYP

159+00 'SB'
159+00
160+00 'SB'
160+00
161+00 'SB'
161+00
162+00 'SB'
162+00
163+00 'SB'
163+00
164+00 'SB'
164+00
165+00 'SB'
165+00

WO1-6
48" X 24"
TYPE III BARRICADE

15' TYP

STH 35/BUS 64

10'

50' TYP

MATCH LINE STA. 166+00

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

CTH C

WO6-3

PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE (YELLOW)

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- BASE AGGREGATE DENSE (SEE TYPICAL SECTION)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

180TH AVE

167+00 'SB'
167+00
168+00 'SB'
168+00
169+00 'SB'
169+00
170+00 'SB'
170+00
171+00 'SB'
171+00
172+00 'SB'
172+00

WO1-4R

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

MATCH LINE STA. 173+00

LAGRANDEUR RD

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2	SHEET 122	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - STAGING.DWG
LAYOUT NAME - 025104_tc - STG 2

PLOT DATE : 11/1/2022 6:50 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

180TH AVE

19+00 'TH'

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE"

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

N

MATCH LINE STA. 173+00

20+00 'TH'

20+50 'TH'

173+50

174+00

175+00

176+00

177+00

178+00

179+00

180

MATCH LINE STA. 180+00

STH 35/BUS 64

LAGRANDEUR RD

21+00 'TH'

ROAD CLOSED AHEAD
W20-3A

CULVERT PIPE TEMPORARY 18-INCH INSTALLED IN STAGE 1

10'

10'

50' TYP

W06-3

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- BASE AGGREGATE DENSE (SEE TYPICAL SECTION)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)

PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE (YELLOW)

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

N

MATCH LINE STA. 180+00

180+00

181+00

182+00

183+00

184+00

185+00

186+00

187

MATCH LINE STA. 187+00

STH 35/BUS 64

10'

10'

50' TYP

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

ROAD CLOSED 1000 FT
W20-3C

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 2	SHEET 123	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - STAGING.DWG
LAYOUT NAME - 025105_tc - STG 2

PLOT DATE : 11/1/2022 6:50 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

2

W063

MATCH LINE STA. 187+00

187+00

188+00

189+00

190+00

191+00

192+00

193+00

194

MATCH LINE STA. 194+00

STH 35/BUS 64

50' TYP

10'

10'

SHARED-USE PATH

STOP
R1-1
30"X30"

ROAD CLOSED 500 FT
W20-3D

N

PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE (YELLOW)

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- BASE AGGREGATE DENSE (SEE TYPICAL SECTION)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)

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

MATCH LINE STA. 194+00

194+00

195+00

196+00

197+00

198+00

199+00

200+00

10+00 'M'

6+00 'M'

15' TYP

10'

10'

STH 35/BUS 64

INTERSECTION TO BE CONSTRUCTED DURING STAGE 2 AND STAGE 3. PLACE SIGNS ACCORDING TO ADVANCED WARNING AND DETOUR SHEETS.

CULVERT PIPE TEMPORARY 24-INCH INSTALLED IN STAGE 1

MAIN STREET

STH 35
(CHURCH HILL RD)

201+00

CHAIN LINK

N

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL -STAGE 2	SHEET 124	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - STAGING.DWG
LAYOUT NAME - 025106_tc - STG 2

PLOT DATE : 11/1/2022 6:51 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

R3-2
24"X24"

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

159+00 'SB'
159+00
160+00 'SB'
160+00
15' TYP
25' TYP
161+00 'SB'
161+00
162+00 'SB'
162+00
163+00 'SB'
163+00
164+00 'SB'
164+00
165+00 'SB'
165+00
12'
10'
50' TYP
STH 35/BUS 64
MATCH LINE STA. 166+00
N

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

CTH C

PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE (YELLOW)

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- BASE AGGREGATE DENSE (SEE TYPICAL SECTION)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

KEEP RIGHT
R4-52R
24"X24"

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

167+00 'SB'
167+00
168+00 'SB'
168+00
169+00 'SB'
169+00
170+00 'SB'
170+00
171+00 'SB'
171+00
172+00 'SB'
172+00
50' TYP
12'
10'
STH 35/BUS 64
MATCH LINE STA. 166+00
MATCH LINE STA. 173+00
180TH AVE
LAGRANDEUR RD
N

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3	SHEET 125	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - STAGING.DWG
LAYOUT NAME - 025107_tc - STG 3

PLOT DATE : 11/1/2022 6:51 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

180TH AVE

19+00 TH

MATCH LINE STA. 173+00

20+00 TH

LAGRANDEUR RD

21+00 TH

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

KEEP RIGHT
R4-52R
24"X24"

ROAD CLOSED AHEAD
W20-3A

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

CULVERT PIPE TEMPORARY 18-INCH INSTALLED IN STAGE 1

STH 35/BUS 64

B50'

174+00 175+00 176+00 177+00 178+00 179+00 180

12'

10'

50' TYP

MATCH LINE STA. 180+00

N

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- BASE AGGREGATE DENSE (SEE TYPICAL SECTION)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)

PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE (YELLOW)

MATCH LINE STA. 180+00

12'

+00 181+00 182+00 183+00 184+00 185+00 186+00 187

STH 35/BUS 64

10'

50' TYP

MATCH LINE STA. 187+00

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

KEEP RIGHT
R4-52R
24"X24"

ROAD CLOSED 1000 FT
W20-3c

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3	SHEET 126	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - STAGING.DWG
LAYOUT NAME - 025108_tc - STG 3

PLOT DATE : 11/1/2022 6:51 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

2

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

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

KEEP RIGHT
R4-52R
24"X24"

KEEP RIGHT
R4-52R
24"X24"

N

MATCH LINE STA. 187+00

187+00

188+00

189+00

190+00

191+00

192+00

193+00

194

MATCH LINE STA. 194+00

12'

10'

STH 35/BUS 64

50' TYP

STOP
R1-1
30"X30"

ROAD CLOSED 500 FT
W20-3D

SHARED-USE PATH

PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE (YELLOW)

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- BASE AGGREGATE DENSE (SEE TYPICAL SECTION)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)

N

MAIN STREET

KEEP RIGHT
R4-52R
24"X24"

15' TYP

MATCH LINE STA. 194+00

+00

12'

10'

195+00

196+00

197+00

198+00

199+00

200+00

10+00' M'

6+00' M'

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

CULVERT PIPE TEMPORARY 24-INCH INSTALLED IN STAGE 1

INTERSECTION TO BE CONSTRUCTED DURING STAGE 2 AND STAGE 3. PLACE SIGNS ACCORDING TO ADVANCED WARNING AND DETOUR SHEETS.

STH 35/BUS 64

STH 35 (CHURCH HILL RD)

201+00

CHAIN LINK

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 3	SHEET 127	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - STAGING.DWG
LAYOUT NAME - 025109_tc - STG 3

PLOT DATE : 11/1/2022 6:51 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

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

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

159+00 'SB'
160+00 'SB'
161+00 'SB'
162+00 'SB'
163+00 'SB'
164+00 'SB'
165+00 'SB'
166+

160+00
161+00
162+00
163+00
164+00
165+00
166

15' TYP
50' TYP
10'

STH 35/BUS 64

MATCH LINE STA. 166+00

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

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

CTH C

PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE (YELLOW)

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- BASE AGGREGATE DENSE (SEE TYPICAL SECTION)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

180TH AVE

MATCH LINE STA. 173+00

167+00 'SB'
168+00 'SB'
169+00 'SB'
170+00 'SB'
171+00 'SB'
172+00 'SB'
173+

167+00
168+00
169+00
170+00
171+00
172+00
173

10'
50' TYP

STH 35/BUS 64

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

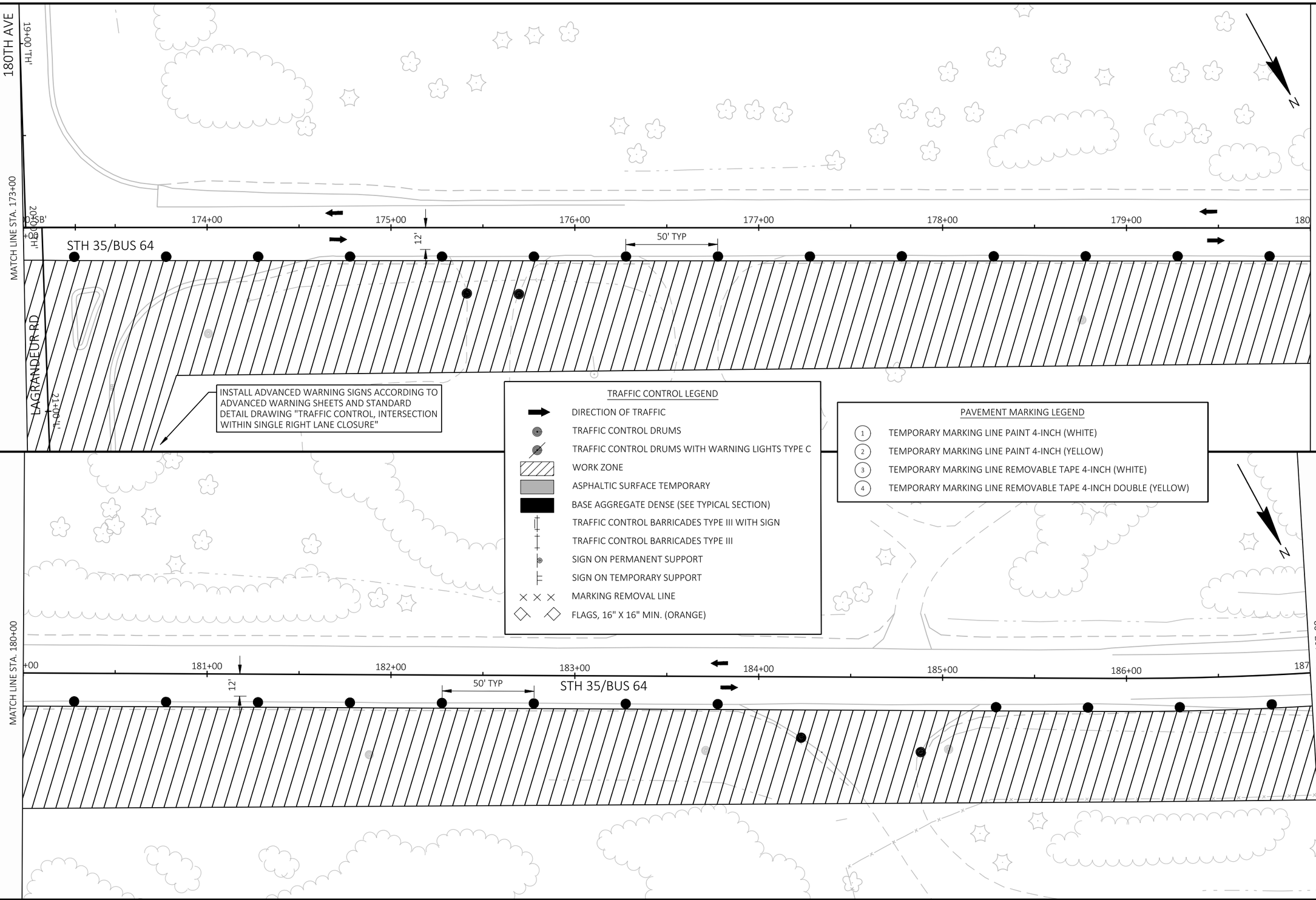
LAGRANDEUR RD

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 4	SHEET 128	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - STAGING.DWG
LAYOUT NAME - 025110_tc - STG 4

PLOT DATE : 11/1/2022 6:51 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44



2

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 4	SHEET 129	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - STAGING.DWG
LAYOUT NAME - 025111_tc - STG 4
PLOT DATE : 11/1/2022 6:52 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

2

N

MATCH LINE STA. 187+00

187+00

188+00

189+00

190+00

191+00

192+00

193+00

194+00

MATCH LINE STA. 194+00

12'

50' TYP

STH 35/BUS 64

SHARED-USE PATH

STOP
R1-1
30"X30"

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- BASE AGGREGATE DENSE (SEE TYPICAL SECTION)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)

PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
3. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
4. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE (YELLOW)

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

PARENT ST

9+00 'P'

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

N

MAIN STREET

MATCH LINE STA. 194+00

195+00

196+00

197+00

198+00

199+00

200+00

10+00 'M'

9+00 'M'

15' TYP

12'

50' TYP

STH 35/BUS 64

INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

STH 35
(CHURCH HILL RD)

201+00

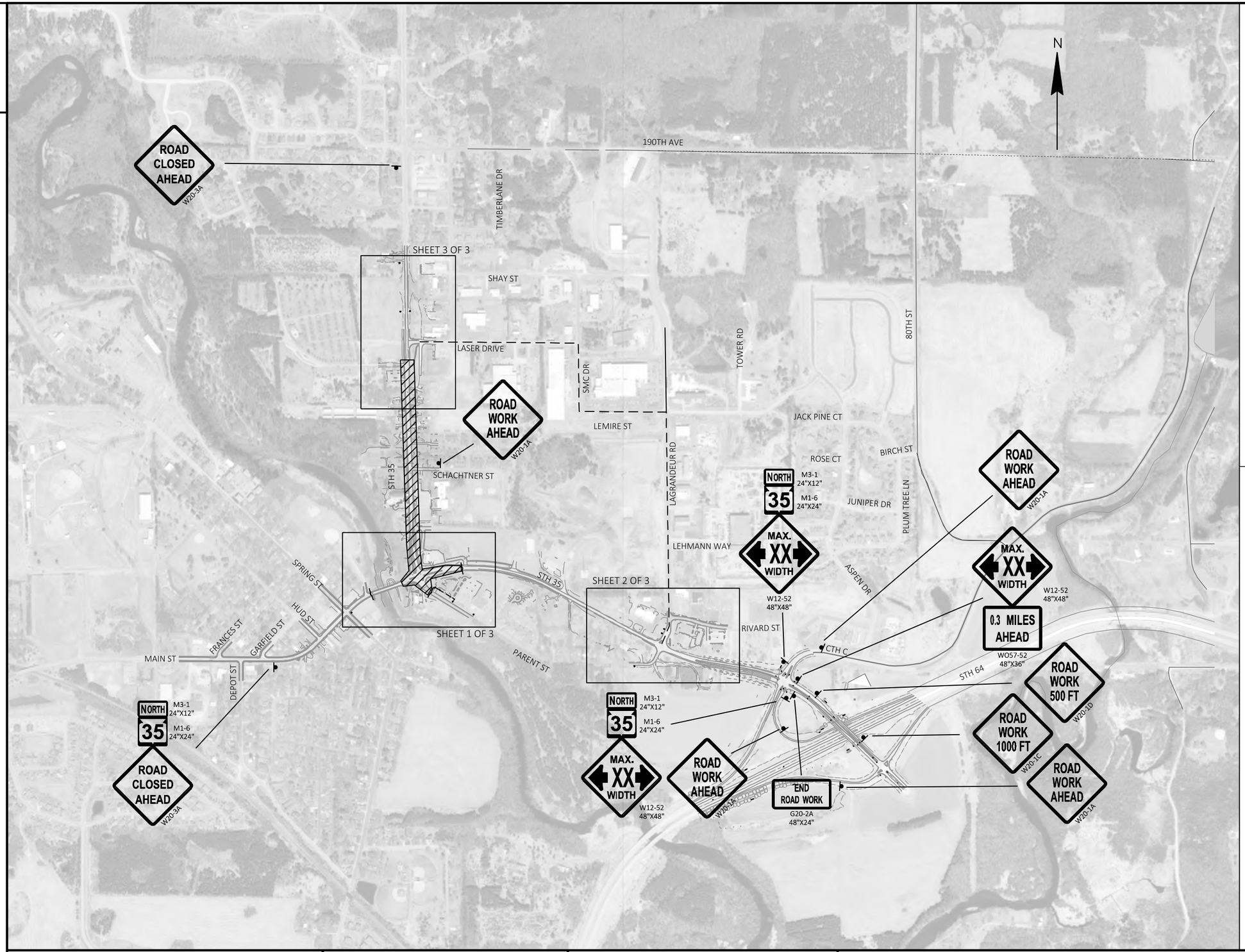
INSTALL ADVANCED WARNING SIGNS ACCORDING TO ADVANCED WARNING SHEETS AND STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - STAGE 4	SHEET 130 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\025101_TC - STAGING.DWG
LAYOUT NAME - 025112_tc - STG 4

PLOT DATE : 11/1/2022 6:52 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- EXISTING POST MOUNTED SIGN
- DETOUR ROUTE (STH 35)
- WORK AREA
- EXISTING SIGN
- EXISTING SIGN TO BE COVERED

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY ENGINEER.

"MO" AND "WO" SIGNS ARE THE SAME AS "M" AND "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ANY SIGN, TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

FOR DETAILS NOT SHOWN SEE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE CLOSURES", "DETOUR SIGNING FOR MAINLINE CLOSURES", "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC", AND "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

ALL WORK ZONE SIGNS ARE 48X48 UNLESS OTHERWISE NOTED.

PCMS BOARDS TO BE PLACED AT PROJECT TERMINI 7 DAYS PRIOR TO CONSTRUCTION AND REMOVED WHEN CONSTRUCTION BEGINS.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - ADVANCED WARNING OVERVIEW	SHEET 131	E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- EXISTING POST MOUNTED SIGN
- DETOUR ROUTE (STH 35)
- WORK AREA
- EXISTING SIGN
- EXISTING SIGN TO BE COVERED

N

2

APPLE R

STH 35 (CHURCH HILL RD)

STH 35/BUS 64

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

RIVER ST

MAIN ST

ROAD CLOSED AHEAD
W20-3A

SPRING ST

ROAD CLOSED 500 FT
W20-3D

500'

PARENT ST

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

ROAD CLOSED AHEAD
W20-3A

PLACE AT BLUFF DR INTERSECTION

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - ADVANCED WARNING SHEET 1 OF 3	SHEET 132	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\027001_TC_STAGE1_DETOUR_1.DWG
LAYOUT NAME - 025002_aw

PLOT DATE : 10/24/2022 1:34 PM PLOT BY : JARED HANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- EXISTING POST MOUNTED SIGN
- DETOUR ROUTE (STH 35)
- WORK AREA
- EXISTING SIGN
- EXISTING SIGN TO BE COVERED

N

NORTH 35 — M3-1 24"X12" / M1-6 24"X24"

ROAD WORK AHEAD — W20-1A

MAX. XX WIDTH — W12-52 48"X48"

ROAD WORK AHEAD — W20-1A

STH 35/BUS 64

LAGRANDEUR RD

RIVARD ST

180TH AVE

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - ADVANCED WARNING SHEET 2 OF 3	SHEET 133	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\027001_TC_STAGE1_DETOUR_1.DWG
LAYOUT NAME - 025003_aw

PLOT DATE : 10/24/2022 1:34 PM PLOT BY : JARED HANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED 1000 FT
W20-3C

STH 35

END ROAD WORK
G20-2A
48"X24"

LASER DR

REED ST

LEGEND

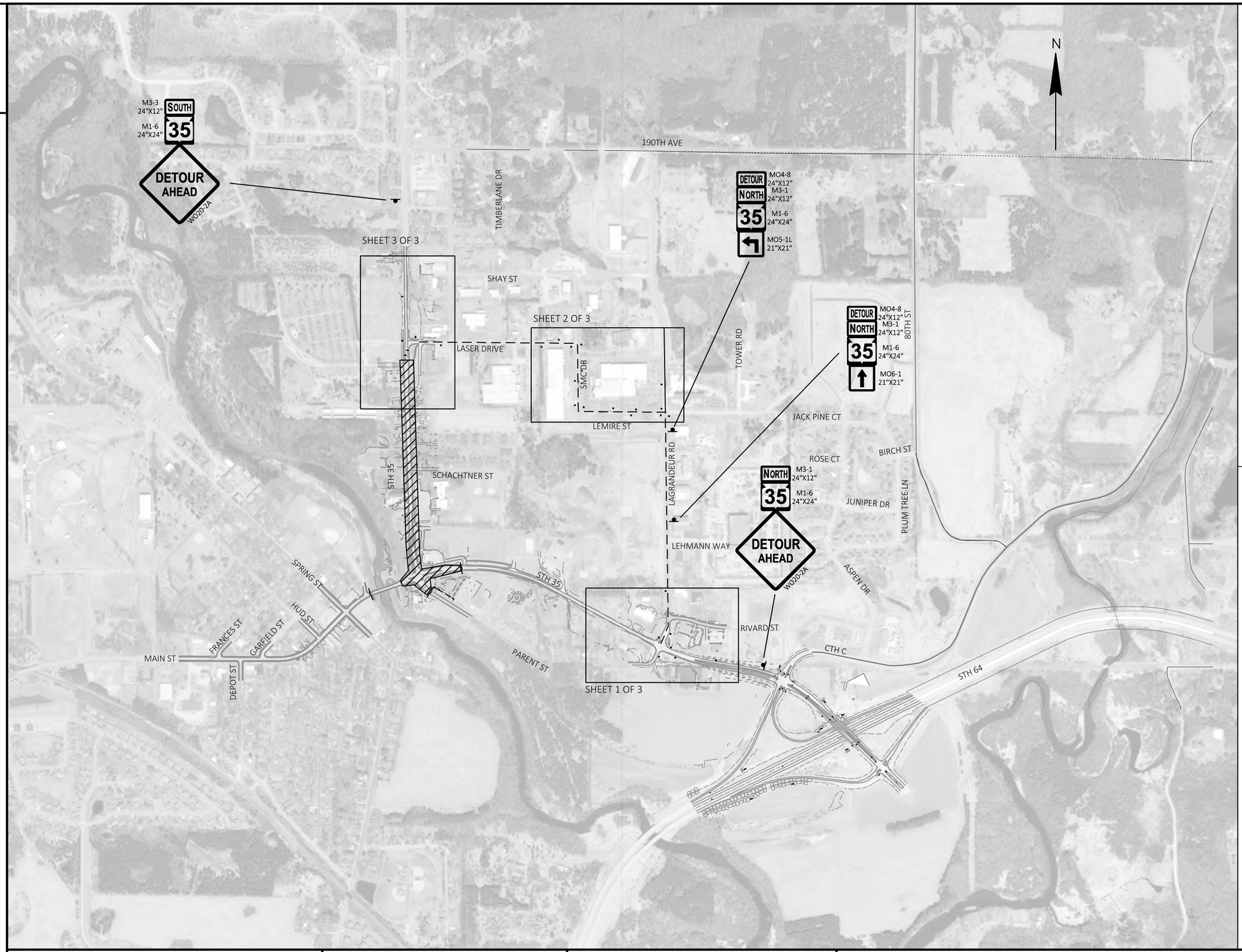
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- EXISTING POST MOUNTED SIGN
- DETOUR ROUTE (STH 35)
- WORK AREA
- EXISTING SIGN
- EXISTING SIGN TO BE COVERED

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - ADVANCED WARNING SHEET 3 OF 3	SHEET 134 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\027001_TC_STAGE1_DETOUR_1.DWG
LAYOUT NAME - 025004_aw

PLOT DATE : 10/24/2022 1:34 PM PLOT BY : JARED HANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- EXISTING POST MOUNTED SIGN
- DETOUR ROUTE (STH 35)
- WORK AREA
- EXISTING SIGN
- EXISTING SIGN TO BE COVERED

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY ENGINEER.

"MO" AND "WO" SIGNS ARE THE SAME AS "M" AND "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ANY SIGN, TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

FOR DETAILS NOT SHOWN SEE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE CLOSURES", "DETOUR SIGNING FOR MAINLINE CLOSURES", "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC", AND "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

ALL WORK ZONE SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - DETOUR OVERVIEW	SHEET 135	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\027001_TC_STAGE1_DETOUR_1.DWG
LAYOUT NAME - 027001_dt

PLOT DATE : 10/24/2022 1:35 PM PLOT BY : JARED HANN PLOT NAME : PLOT SCALE : not to scale

2

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- EXISTING POST MOUNTED SIGN
- DETOUR ROUTE (STH 35)
- WORK AREA
- EXISTING SIGN
- EXISTING SIGN TO BE COVERED

N

MO4-8 24"X12" M3-3 24"X12" DETOUR SOUTH M1-6 24"X24" 35 MO5-1L 21"X21"

MO4-8 24"X12" M3-3 24"X12" DETOUR SOUTH M1-6 24"X24" 35 MO6-1 21"X21"

MO4-8 24"X12" M3-1 24"X12" DETOUR NORTH M1-6 24"X24" 35

MO4-8 24"X12" M3-1 24"X12" DETOUR NORTH M1-6 24"X24" 35 MO6-1 21"X21"

MO4-8 24"X12" M3-1 24"X12" DETOUR NORTH M1-6 24"X24" 35 MO5-1R 21"X21"

R11-3 60" X 30" ROAD CLOSED 0.4 MILES AHEAD LOCAL TRAFFIC ONLY

TYPE III BARRICADE

M4-9R 30"X24" DETOUR

MO4-8 24"X12" M3-1 24"X12" DETOUR NORTH M1-6 24"X24" 35 MO6-1 21"X21"

MO4-8A 24"X18" END DETOUR M3-3 24"X12" SOUTH M1-6 24"X24" 35

STH 35/BUS 64

LAGRANDEUR RD

RIVARD ST

180TH AVE

HWY

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - DETOUR SHEET 1 OF 3	SHEET 136	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\027001_TC_STAGE1_DETOUR_1.DWG
LAYOUT NAME - 027002_dt

PLOT DATE : 10/24/2022 1:35 PM PLOT BY : JARED HANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

LASER DRIVE

SMC DRIVE

LAGRANDEUR RD

LEMIRE ST

DETOUR NORTH 35 — MO4-8 24"X12", M3-1 24"X12", M1-6 24"X24"

DETOUR NORTH 35 — MO4-8 24"X12", M3-1 24"X12", M1-6 24"X24", M06-1 21"X21"

DETOUR SOUTH 35 — MO4-8 24"X12", M3-3 24"X12", M1-6 24"X24", MO5-1R 21"X21"

DETOUR SOUTH 35 — MO4-8 24"X12", M3-3 24"X12", M1-6 24"X24", M06-1 21"X21"

DETOUR NORTH 35 — MO4-8 24"X12", M3-1 24"X12", M1-6 24"X24", MO5-1L 21"X21"

DETOUR SOUTH 35 — MO4-8 24"X12", M3-3 24"X12", M1-6 24"X24", MO5-1L 21"X21"

DETOUR SOUTH 35 — MO4-8 24"X12", M3-3 24"X12", M1-6 24"X24", MO6-1 21"X21"

DETOUR NORTH 35 — MO4-8 24"X12", M3-1 24"X12", M1-6 24"X24", M06-1 21"X21"

DETOUR NORTH 35 — MO4-8 24"X12", M3-1 24"X12", M1-6 24"X24", MO5-1R 21"X21"

DETOUR NORTH 35 — MO4-8 24"X12", M3-1 24"X12", M1-6 24"X24"

DETOUR SOUTH 35 — MO4-8 24"X12", M3-3 24"X12", M1-6 24"X24", M6-1 21"X21"

DETOUR NORTH 35 — MO4-8 24"X12", M3-1 24"X12", M1-6 24"X24", M06-1 21"X21"

DETOUR SOUTH 35 — MO4-8 24"X12", M3-3 24"X12", M1-6 24"X24", MO5-1R 21"X21"

DETOUR SOUTH 35 — MO4-8 24"X12", M3-3 24"X12", M1-6 24"X24", M06-1 21"X21"

M3-3 24"X12", SOUTH 35, M1-6 24"X24"

DETOUR AHEAD — W02D-2A

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- EXISTING POST MOUNTED SIGN
- DETOUR ROUTE (STH 35)
- WORK AREA
- 12 — EXISTING SIGN
- 12 — EXISTING SIGN TO BE COVERED

2

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - DETOUR SHEET 2 OF 3	SHEET 137	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\027001_TC_STAGE1_DETOUR_1.DWG
LAYOUT NAME - 027003_dt

PLOT DATE : 10/24/2022 1:35 PM PLOT BY : JARED HANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

R11-3
60" X 30"
ROAD CLOSED
0.1 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

MO4-8
24"X12"
M3-3
24"X12"
M1-6
24"X24"
MO6-1
21"X21"
DETOUR
SOUTH
35

MO4-8
24"X12"
M3-3
24"X12"
M1-6
24"X24"
MO5-1L
21"X21"
DETOUR
SOUTH
35

STH 35

MO4-8A
24"X18"
M3-1
24"X12"
M1-6
24"X24"
END
DETOUR
NORTH
35

DETOUR
M4-9L
30"X24"

MO4-8
24"X12"
M3-3
24"X12"
M1-6
24"X24"
MO6-1
21"X21"
DETOUR
SOUTH
35

LASER DR

REED ST

LEGEND

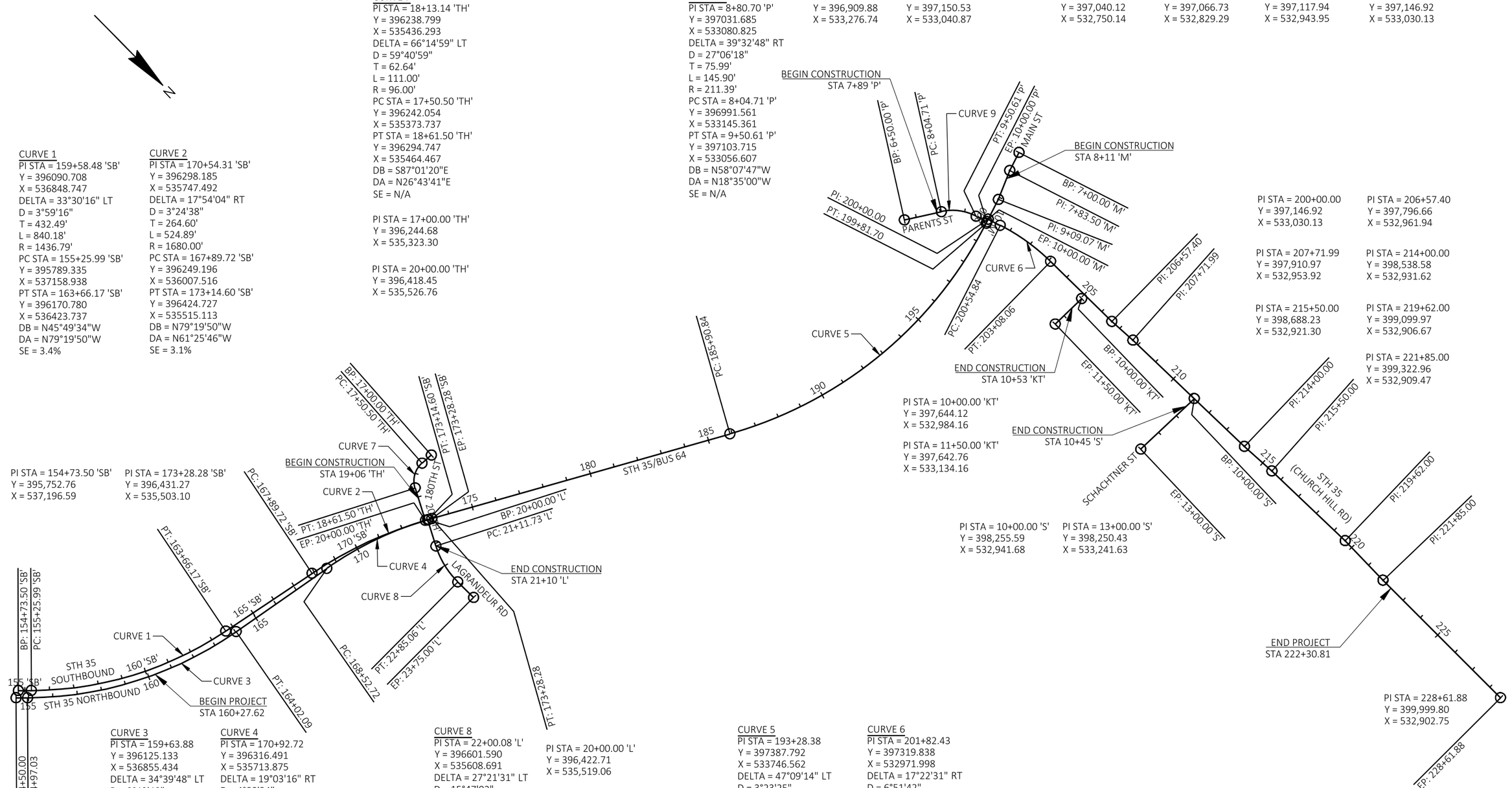
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- EXISTING POST MOUNTED SIGN
- DETOUR ROUTE (STH 35)
- WORK AREA
- EXISTING SIGN
- EXISTING SIGN TO BE COVERED

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	TRAFFIC CONTROL - DETOUR SHEET 3 OF 3	SHEET 138 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\027001_TC_STAGE1_DETOUR_1.DWG
LAYOUT NAME - 027004_dt

PLOT DATE : 10/24/2022 1:35 PM PLOT BY : JARED HANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42


N
CURVE 1
PI STA = 159+58.48 'SB'
Y = 396090.708
X = 536848.747
DELTA = 33°30'16" LT
D = 3°59'16"
T = 432.49'
L = 840.18'
R = 1436.79'
PC STA = 155+25.99 'SB'
Y = 395789.335
X = 537158.938
PT STA = 163+66.17 'SB'
Y = 396170.780
X = 536423.737
DB = N45°49'34"W
DA = N79°19'50"W
SE = 3.4%
CURVE 2
PI STA = 170+54.31 'SB'
Y = 396298.185
X = 535747.492
DELTA = 17°54'04" RT
D = 3°24'38"
T = 264.60'
L = 524.89'
R = 1680.00'
PC STA = 167+89.72 'SB'
Y = 396249.196
X = 536007.516
PT STA = 173+14.60 'SB'
Y = 396424.727
X = 535515.113
DB = N79°19'50"W
DA = N61°25'46"W
SE = 3.1%
CURVE 7
PI STA = 18+13.14 'TH'
Y = 396238.799
X = 535436.293
DELTA = 66°14'59" LT
D = 59°40'59"
T = 62.64'
L = 111.00'
R = 96.00'
PC STA = 17+50.50 'TH'
Y = 396242.054
X = 535373.737
PT STA = 18+61.50 'TH'
Y = 396294.747
X = 535464.467
DB = S87°01'20"E
DA = N26°43'41"E
SE = N/A
PI STA = 17+00.00 'TH'
Y = 396,244.68
X = 535,323.30
PI STA = 20+00.00 'TH'
Y = 396,418.45
X = 535,526.76
CURVE 9
PI STA = 8+80.70 'P'
Y = 397031.685
X = 533080.825
DELTA = 39°32'48" RT
D = 27°06'18"
T = 75.99'
L = 145.90'
R = 211.39'
PC STA = 8+04.71 'P'
Y = 396991.561
X = 533145.361
PT STA = 9+50.61 'P'
Y = 397103.715
X = 533056.607
DB = N58°07'47"W
DA = N18°35'00"W
SE = N/A
PI STA = 6+50.00 'P'
Y = 396,909.88
X = 533,276.74
PI STA = 10+00.00 'P'
Y = 397,150.53
X = 533,040.87
PI STA = 7+00.00 'M'
Y = 397,040.12
X = 532,750.14
PI STA = 7+83.50 'M'
Y = 397,066.73
X = 532,829.29
PI STA = 9+09.07 'M'
Y = 397,117.94
X = 532,943.95
PI STA = 10+00.00 'M'
Y = 397,146.92
X = 533,030.13
PI STA = 200+00.00
Y = 397,146.92
X = 533,030.13
PI STA = 206+57.40
Y = 397,796.66
X = 532,961.94
PI STA = 207+71.99
Y = 397,910.97
X = 532,953.92
PI STA = 214+00.00
Y = 398,538.58
X = 532,931.62
PI STA = 215+50.00
Y = 398,688.23
X = 532,921.30
PI STA = 219+62.00
Y = 399,099.97
X = 532,906.67
PI STA = 221+85.00
Y = 399,322.96
X = 532,909.47
PI STA = 228+61.88
Y = 399,999.80
X = 532,902.75
PI STA = 154+73.50 'SB'
Y = 395,752.76
X = 537,196.59
PI STA = 173+28.28 'SB'
Y = 396,431.27
X = 535,503.10
PI STA = 154+50.00
Y = 395,767.01
X = 537,223.97
PI STA = 10+00.00 'KT'
Y = 397,644.12
X = 532,984.16
PI STA = 11+50.00 'KT'
Y = 397,642.76
X = 533,134.16
PI STA = 10+00.00 'S'
Y = 398,255.59
X = 532,941.68
PI STA = 13+00.00 'S'
Y = 398,250.43
X = 533,241.63
BEGIN CONSTRUCTION
STA 7+89 'P'
BEGIN CONSTRUCTION
STA 8+11 'M'
END CONSTRUCTION
STA 10+53 'KT'
END CONSTRUCTION
STA 10+45 'S'
END CONSTRUCTION
STA 21+10 'L'
BEGIN CONSTRUCTION
STA 19+06 'TH'
BEGIN PROJECT
STA 160+27.62
END PROJECT
STA 222+30.81
BP: 6+50.00 'P'
PC: 8+04.71 'P'
PT: 9+50.61 'P'
EP: 10+00.00 'P'
MAIN ST
BP: 7+00.00 'M'
PI: 7+83.50 'M'
PI: 9+09.07 'M'
EP: 10+00.00 'M'
PI: 200+00.00
PT: 199+81.70
PARENTS ST
CURVE 6
CURVE 5
PC: 185+90.84
PC: 200+54.84
PT: 203+08.06
PI: 206+57.40
PI: 207+71.99
BP: 10+00.00 'KT'
EP: 11+50.00 'KT'
SCHACHTNER ST
EP: 13+00.00 'S'
BP: 10+00.00 'S'
PI: 214+00.00
PI: 215+50.00
STH 35
(CHURCH HILL RD)
PI: 219+62.00
PI: 221+85.00
BP: 17+00.00 'TH'
PC: 17+50.50 'TH'
PI: 173+14.69 'SB'
EP: 173+28.28 'SB'
CURVE 7
CURVE 2
180TH ST
PC: 167+89.72 'SB'
PT: 18+61.50 'TH'
EP: 20+00.00 'TH'
BP: 20+00.00 'L'
PC: 21+11.73 'L'
CURVE 4
CURVE 8
LAGRANDEUR RD
PT: 173+28.28
PT: 163+66.17 'SB'
CURVE 1
CURVE 3
BP: 154+73.50 'SB'
PC: 155+25.99 'SB'
BP: 154+50.00
PC: 154+97.03
STH 35
SOUTHBOUND
STH 35 NORTHBOUND
PT: 164+02.09
PC: 168+52.72
PT: 22+85.06 'L'
EP: 23+75.00 'L'
STH 35/BUS 64
185
190
195
200
205
210
215
220
225
155 'SB'
160 'SB'
165 'SB'
170 'SB'
155
160
165
170
175
180

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	8060-00-70 Qty	8060-00-72 Qty
0002	201.0105	Clearing	STA	5.000	5.000	
0004	201.0120	Clearing	ID	232.000	232.000	
0006	201.0205	Grubbing	STA	5.000	5.000	
0008	201.0220	Grubbing	ID	292.000	292.000	
0010	203.0100	Removing Small Pipe Culverts	EACH	3.000	3.000	
0012	204.0100	Removing Concrete Pavement	SY	13,822.000	13,822.000	
0014	204.0150	Removing Curb & Gutter	LF	8,585.000	8,585.000	
0016	204.0155	Removing Concrete Sidewalk	SY	3,273.000	3,273.000	
0018	204.0170	Removing Fence	LF	141.000	141.000	
0020	204.0195	Removing Concrete Bases	EACH	20.000	20.000	
0022	204.0210	Removing Manholes	EACH	4.000	4.000	
0024	204.0220	Removing Inlets	EACH	23.000	23.000	
0026	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	348.000	348.000	
0028	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	314.000	314.000	
0030	204.0245	Removing Storm Sewer (size) 03. 18-Inch	LF	287.000	287.000	
0032	204.0245	Removing Storm Sewer (size) 04. 24-Inch	LF	140.000	140.000	
0034	204.0245	Removing Storm Sewer (size) 05. 30-Inch	LF	404.000	404.000	
0036	204.0250	Abandoning Manholes	EACH	1.000	1.000	
0038	204.0291.S	Abandoning Sewer	CY	10.400	10.400	
0040	204.9060.S	Removing (item description) 01. Traffic Signals STH 35 & Parent St	EACH	1.000	1.000	
0042	204.9060.S	Removing (item description) 02. Traffic Signals STH 35 & CTH C	EACH	1.000	1.000	
0044	204.9060.S	Removing (item description) 03. Endwalls	EACH	1.000	1.000	
0046	205.0100	Excavation Common	CY	24,915.000	24,915.000	
0048	205.0300	Excavation Stone Piles and Stone Fences	CY	30.000	30.000	
0050	208.0100	Borrow	CY	218.000	218.000	
0052	211.0201	Prepare Foundation for Concrete Pavement (project) 01. 8060-00-70	EACH	1.000	1.000	
0054	213.0100	Finishing Roadway (project) 01. 8060-00-70	EACH	1.000	1.000	
0056	213.0100	Finishing Roadway (project) 02. 8060-00-72	EACH	1.000		1.000
0058	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,304.000	2,304.000	
0060	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	22,210.000	22,210.000	
0062	415.0080	Concrete Pavement 8-Inch	SY	31,495.000	31,495.000	
0064	415.0210	Concrete Pavement Gaps	EACH	12.000	12.000	
0066	415.0410	Concrete Pavement Approach Slab	SY	83.000	83.000	
0068	415.1080	Concrete Pavement HES 8-Inch	SY	168.000	168.000	
0070	415.4100	Concrete Pavement Joint Filling	SY	19,450.000	19,450.000	
0072	416.0160	Concrete Driveway 6-Inch	SY	622.000	622.000	
0074	455.0605	Tack Coat	GAL	210.000	210.000	
0076	460.2000	Incentive Density HMA Pavement	DOL	370.000	370.000	
0078	460.5244	HMA Pavement 4 LT 58-34 S	TON	570.000	570.000	
0080	465.0105	Asphaltic Surface	TON	380.000	380.000	
0082	465.0115	Asphaltic Surface Detours	TON	100.000	100.000	
0084	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	430.000	430.000	
0086	465.0125	Asphaltic Surface Temporary	TON	200.000	200.000	
0088	465.0315	Asphaltic Flumes	SY	18.000	18.000	
0090	520.1012	Apron Endwalls for Culvert Pipe 12-Inch	EACH	2.000	2.000	
0092	520.1015	Apron Endwalls for Culvert Pipe 15-Inch	EACH	4.000	4.000	
0094	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	2.000	2.000	
0096	520.2018	Culvert Pipe Temporary 18-Inch	LF	45.000	45.000	
0098	520.2024	Culvert Pipe Temporary 24-Inch	LF	27.000	27.000	

Line	Item	Item Description	Unit	Total	8060-00-70 Qty	8060-00-72 Qty
0100	520.3512	Culvert Pipe Class III-B 12-Inch	LF	96.000	96.000	
0102	520.3515	Culvert Pipe Class III-B 15-Inch	LF	60.000	60.000	
0104	520.3518	Culvert Pipe Class III-B 18-Inch	LF	50.000	50.000	
0106	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000	
0108	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	72.000	72.000	
0110	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2.000	2.000	
0112	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000	
0114	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000	
0116	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000	
0118	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	1.000	1.000	
0120	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	1.000	1.000	
0122	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	10.000	10.000	
0124	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	5,316.000	5,316.000	
0126	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	281.000	281.000	
0128	601.0551	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	LF	2,063.000	2,063.000	
0130	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	40.000	40.000	
0132	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	562.000	562.000	
0134	601.0586	Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type TBTT	LF	205.000	205.000	
0136	601.0600	Concrete Curb Pedestrian	LF	85.000	85.000	
0138	602.0410	Concrete Sidewalk 5-Inch	SF	22,683.000	22,683.000	
0140	602.0415	Concrete Sidewalk 6-Inch	SF	1,246.000	1,246.000	
0142	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	224.000	224.000	
0144	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	16.200	16.200	
0146	606.0200	Riprap Medium	CY	88.000	88.000	
0148	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	179.000	179.000	
0150	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	27.000	27.000	
0152	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	108.000	108.000	
0154	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	97.000	97.000	
0156	608.3612	Storm Sewer Pipe Class III-B 12-Inch	LF	543.000	543.000	
0158	608.3615	Storm Sewer Pipe Class III-B 15-Inch	LF	213.000	213.000	
0160	608.3624	Storm Sewer Pipe Class III-B 24-Inch	LF	394.000	394.000	
0162	608.3630	Storm Sewer Pipe Class III-B 30-Inch	LF	330.000	330.000	
0164	608.3636	Storm Sewer Pipe Class III-B 36-Inch	LF	110.000	110.000	
0166	611.0530	Manhole Covers Type J	EACH	10.000	10.000	
0168	611.0600	Inlet Covers Type A	EACH	2.000	2.000	
0170	611.0612	Inlet Covers Type C	EACH	2.000	2.000	
0172	611.0624	Inlet Covers Type H	EACH	18.000	18.000	
0174	611.0627	Inlet Covers Type HM	EACH	6.000	6.000	
0176	611.0639	Inlet Covers Type H-S	EACH	5.000	5.000	
0178	611.0642	Inlet Covers Type MS	EACH	3.000	3.000	
0180	611.1005	Catch Basins 5-FT Diameter	EACH	3.000	3.000	
0182	611.1006	Catch Basins 6-FT Diameter	EACH	1.000	1.000	
0184	611.2004	Manholes 4-FT Diameter	EACH	1.000	1.000	
0186	611.2005	Manholes 5-FT Diameter	EACH	4.000	4.000	
0188	611.2006	Manholes 6-FT Diameter	EACH	5.000	5.000	
0190	611.3003	Inlets 3-FT Diameter	EACH	2.000	2.000	
0192	611.3004	Inlets 4-FT Diameter	EACH	6.000	6.000	
0194	611.3220	Inlets 2x2-FT	EACH	2.000	2.000	
0196	611.3230	Inlets 2x3-FT	EACH	19.000	19.000	

					8060-00-70	8060-00-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0198	611.3901	Inlets Median 1 Grate	EACH	1.000	1.000	
0200	611.3902	Inlets Median 2 Grate	EACH	2.000	2.000	
0202	611.8110	Adjusting Manhole Covers	EACH	10.000	10.000	
0204	611.8115	Adjusting Inlet Covers	EACH	2.000	2.000	
0206	611.8120.S	Cover Plates Temporary	EACH	10.000	10.000	
0208	612.0902.S	Insulation Board Polystyrene (inch) 01. 2-Inch	SY	67.000		67.000
0210	614.2500	MGS Thrie Beam Transition	LF	78.800	78.800	
0212	616.0204	Fence Chain Link 4-FT	LF	140.000	140.000	
0214	616.0700.S	Fence Safety	LF	625.000	625.000	
0216	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8060-00-70	EACH	1.000	1.000	
0218	618.0100	Maintenance And Repair of Haul Roads (project) 02. 8060-00-72	EACH	1.000		1.000
0220	619.1000	Mobilization	EACH	1.000	0.800	0.200
0222	620.0300	Concrete Median Sloped Nose	SF	447.000	447.000	
0224	624.0100	Water	MGAL	360.000	360.000	
0226	625.0100	Topsoil	SY	34,890.000	34,890.000	
0228	628.1504	Silt Fence	LF	6,680.000	6,680.000	
0230	628.1520	Silt Fence Maintenance	LF	6,680.000	6,680.000	
0232	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000	
0234	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0236	628.2004	Erosion Mat Class I Type B	SY	18,830.000	18,830.000	
0238	628.2008	Erosion Mat Urban Class I Type B	SY	4,820.000	4,820.000	
0240	628.7005	Inlet Protection Type A	EACH	29.000	29.000	
0242	628.7010	Inlet Protection Type B	EACH	9.000	9.000	
0244	628.7015	Inlet Protection Type C	EACH	61.000	61.000	
0246	628.7020	Inlet Protection Type D	EACH	8.000	8.000	
0248	628.7504	Temporary Ditch Checks	LF	200.000	200.000	
0250	628.7555	Culvert Pipe Checks	EACH	40.000	40.000	
0252	628.7560	Tracking Pads	EACH	4.000	4.000	
0254	628.7570	Rock Bags	EACH	160.000	160.000	
0256	629.0210	Fertilizer Type B	CWT	22.070	22.070	
0258	630.0120	Seeding Mixture No. 20	LB	558.000	558.000	
0260	630.0140	Seeding Mixture No. 40	LB	94.000	94.000	
0262	630.0200	Seeding Temporary	LB	650.000	650.000	
0264	630.0500	Seed Water	MGAL	466.000	466.000	
0266	633.5200	Markers Culvert End	EACH	6.000	6.000	
0268	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	54.000	54.000	
0270	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	20.000	20.000	
0272	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	3.000	3.000	
0274	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	2.000	2.000	
0276	634.0812	Posts Tubular Steel 2x2-Inch X 12-FT	EACH	3.000	3.000	
0278	637.2210	Signs Type II Reflective H	SF	557.460	557.460	
0280	637.2215	Signs Type II Reflective H Folding	SF	31.080	31.080	
0282	637.2230	Signs Type II Reflective F	SF	164.500	164.500	
0284	638.2102	Moving Signs Type II	EACH	6.000	6.000	
0286	638.2602	Removing Signs Type II	EACH	85.000	85.000	
0288	638.3000	Removing Small Sign Supports	EACH	78.000	78.000	
0290	638.4000	Moving Small Sign Supports	EACH	5.000	5.000	
0292	642.5001	Field Office Type B	EACH	1.000	1.000	
0294	643.0300	Traffic Control Drums	DAY	24,525.000	24,525.000	

					8060-00-70	8060-00-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0296	643.0420	Traffic Control Barricades Type III	DAY	6,100.000	6,100.000	
0298	643.0705	Traffic Control Warning Lights Type A	DAY	12,199.000	12,199.000	
0300	643.0715	Traffic Control Warning Lights Type C	DAY	1,067.000	1,067.000	
0302	643.0900	Traffic Control Signs	DAY	39,735.000	39,735.000	
0304	643.0920	Traffic Control Covering Signs Type II	EACH	2.000	2.000	
0306	643.1050	Traffic Control Signs PCMS	DAY	36.000	36.000	
0308	643.3105	Temporary Marking Line Paint 4-Inch	LF	5,000.000	5,000.000	
0310	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	2,890.000	2,890.000	
0312	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	200.000	200.000	
0314	643.3960	Temporary Marking Removable Mask Out Tape 6-Inch	LF	250.000	250.000	
0316	643.5000	Traffic Control	EACH	1.000	1.000	
0318	644.1410	Temporary Pedestrian Surface Asphalt	SF	8,230.000	8,230.000	
0320	644.1440	Temporary Pedestrian Surface Matting	SF	1,510.000	1,510.000	
0322	644.1601	Temporary Pedestrian Curb Ramp	DAY	1,640.000	1,640.000	
0324	644.1810	Temporary Pedestrian Barricade	LF	2,000.000	2,000.000	
0326	645.0120	Geotextile Type HR	SY	297.000	297.000	
0328	646.1020	Marking Line Epoxy 4-Inch	LF	13,982.000	13,982.000	
0330	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	7,220.000	7,220.000	
0332	646.3020	Marking Line Epoxy 8-Inch	LF	1,501.000	1,501.000	
0334	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	2,020.000	2,020.000	
0336	646.5020	Marking Arrow Epoxy	EACH	31.000	31.000	
0338	646.5120	Marking Word Epoxy	EACH	7.000	7.000	
0340	646.6120	Marking Stop Line Epoxy 18-Inch	LF	239.000	239.000	
0342	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	31.000	31.000	
0344	646.6464	Cold Weather Marking Epoxy 4-Inch	LF	350.000	350.000	
0346	646.6468	Cold Weather Marking Epoxy 8-Inch	LF	265.000	265.000	
0348	646.7120	Marking Diagonal Epoxy 12-Inch	LF	290.000	290.000	
0350	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	514.000	514.000	
0352	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	100.000	100.000	
0354	646.8120	Marking Curb Epoxy	LF	30.000	30.000	
0356	646.8220	Marking Island Nose Epoxy	EACH	3.000	3.000	
0358	646.9000	Marking Removal Line 4-Inch	LF	3,625.000	3,625.000	
0360	646.9200	Marking Removal Line Wide	LF	480.000	480.000	
0362	648.0100	Locating No-Passing Zones	MI	1.131	1.131	
0364	650.4000	Construction Staking Storm Sewer	EACH	55.000	55.000	
0366	650.4500	Construction Staking Subgrade	LF	7,985.000	7,985.000	
0368	650.5000	Construction Staking Base	LF	170.000	170.000	
0370	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	341.000	341.000	
0372	650.6000	Construction Staking Pipe Culverts	EACH	7.000	7.000	
0374	650.7000	Construction Staking Concrete Pavement	LF	7,897.000	7,897.000	
0376	650.8501	Construction Staking Electrical Installations (project) 01. 8060-00-70	EACH	1.000	1.000	
0378	650.9000	Construction Staking Curb Ramps	EACH	13.000	13.000	
0380	650.9500	Construction Staking Sidewalk (project) 01. 8060-00-70	EACH	1.000	1.000	
0382	650.9911	Construction Staking Supplemental Control (project) 01. 8060-00-70	EACH	1.000	1.000	
0384	650.9920	Construction Staking Slope Stakes	LF	7,985.000	7,985.000	
0386	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	10,234.000	10,234.000	
0388	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	1,668.000	1,668.000	
0390	652.0605	Conduit Special 2-Inch	LF	1,450.000	1,450.000	
0392	652.0615	Conduit Special 3-Inch	LF	278.000	278.000	

					8060-00-70	8060-00-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0394	652.0700.S	Install Conduit into Existing Item	EACH	5.000	5.000	
0396	652.0800	Conduit Loop Detector	LF	2,026.000	2,026.000	
0398	653.0135	Pull Boxes Steel 24x36-Inch	EACH	15.000	15.000	
0400	653.0140	Pull Boxes Steel 24x42-Inch	EACH	6.000	6.000	
0402	653.0154	Pull Boxes Non-Conductive 24x36-Inch	EACH	3.000	3.000	
0404	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	29.000	29.000	
0406	653.0905	Removing Pull Boxes	EACH	48.000	48.000	
0408	654.0101	Concrete Bases Type 1	EACH	9.000	9.000	
0410	654.0102	Concrete Bases Type 2	EACH	3.000	3.000	
0412	654.0105	Concrete Bases Type 5	EACH	1.000	1.000	
0414	654.0113	Concrete Bases Type 13	EACH	1.000	1.000	
0416	654.0120	Concrete Bases Type 10-Special	EACH	4.000	4.000	
0418	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	1.000	1.000	
0420	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000	
0422	655.0230	Cable Traffic Signal 5-14 AWG	LF	1,762.000	1,762.000	
0424	655.0260	Cable Traffic Signal 12-14 AWG	LF	4,197.000	4,197.000	
0426	655.0305	Cable Type UF 2-12 AWG Grounded	LF	1,764.000	1,764.000	
0428	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	2,133.000	2,133.000	
0430	655.0610	Electrical Wire Lighting 12 AWG	LF	5,736.000	5,736.000	
0432	655.0620	Electrical Wire Lighting 8 AWG	LF	38,369.000	38,369.000	
0434	655.0635	Electrical Wire Lighting 2 AWG	LF	8,568.000	8,568.000	
0436	655.0700	Loop Detector Lead In Cable	LF	8,424.000	8,424.000	
0438	655.0800	Loop Detector Wire	LF	6,700.000	6,700.000	
0440	655.0900	Traffic Signal EVP Detector Cable	LF	1,007.000	1,007.000	
0442	656.0201	Electrical Service Meter Breaker Pedestal (location) 01. STH 35 & Parent St	EACH	1.000	1.000	
0444	656.0201	Electrical Service Meter Breaker Pedestal (location) 02. STH 35	EACH	1.000	1.000	
0446	657.0100	Pedestal Bases	EACH	10.000	10.000	
0448	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	3.000	3.000	
0450	657.0305	Poles Type 2	EACH	1.000	1.000	
0452	657.0310	Poles Type 3	EACH	1.000	1.000	
0454	657.0322	Poles Type 5-Aluminum	EACH	1.000	1.000	
0456	657.0352	Poles Type 10-Special	EACH	4.000	4.000	
0458	657.0360	Poles Type 13	EACH	1.000	1.000	
0460	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	2.000	2.000	
0462	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	5.000	5.000	
0464	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	3.000	3.000	
0466	657.0536	Monotube Arms 35-FT-Special	EACH	1.000	1.000	
0468	657.0546	Monotube Arms 45-FT-Special	EACH	3.000	3.000	
0470	657.0550	Monotube Arms 50-FT	EACH	1.000	1.000	
0472	657.0614	Luminaire Arms Single Member 4-Inch Clamp 8-FT	EACH	1.000	1.000	
0474	657.0615	Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	EACH	1.000	1.000	
0476	657.0806	Luminaire Arms Steel 6-FT	EACH	2.000	2.000	
0478	657.0815	Luminaire Arms Steel 15-FT	EACH	3.000	3.000	
0480	658.0173	Traffic Signal Face 3S 12-Inch	EACH	16.000	16.000	
0482	658.0174	Traffic Signal Face 4S 12-Inch	EACH	9.000	9.000	
0484	658.0416	Pedestrian Signal Face 16-Inch	EACH	6.000	6.000	
0486	658.0500	Pedestrian Push Buttons	EACH	8.000	8.000	
0488	658.5070	Signal Mounting Hardware (location) 01. STH 35 & Parent St	EACH	1.000	1.000	
0490	658.5070	Signal Mounting Hardware (location) 02. STH 35 & CTH C	EACH	1.000	1.000	

Line	Item	Item Description	Unit	Total	8060-00-70 Qty	8060-00-72 Qty
0492	659.1115	Luminaires Utility LED A	EACH	2.000	2.000	
0494	659.1125	Luminaires Utility LED C	EACH	5.000	5.000	
0496	674.0300	Remove Cable	LF	4,362.000	4,362.000	
0498	678.0012	Install Fiber Optic Cable Outdoor Plant 12-CT	LF	4,328.000	4,328.000	
0500	690.0150	Sawing Asphalt	LF	9,865.000	9,865.000	
0502	690.0250	Sawing Concrete	LF	3,181.000	3,181.000	
0504	715.0715	Incentive Flexural Strength Concrete Pavement	DOL	9,450.000	9,450.000	
0506	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	9,450.000	9,450.000	
0508	740.0440	Incentive IRI Ride	DOL	4,524.000	4,524.000	
0510	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000	
0512	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,100.000	2,100.000	
0514	SPV.0060	Special 01. Path Lighting Assembly	EACH	32.000	32.000	
0516	SPV.0060	Special 02. Road Lighting Assembly	EACH	17.000	17.000	
0518	SPV.0060	Special 03. Install State Furnished EVP Detector Heads STH 35 & Parent St	EACH	1.000	1.000	
0520	SPV.0060	Special 04. Rectangular Rapid Flashing Beacon System STH 35	EACH	1.000	1.000	
0522	SPV.0060	Special 05. Connect To Existing Storm Sewer	EACH	2.000	2.000	
0524	SPV.0060	Special 06. Guardrail Terminal EAT TL-2	EACH	2.000	2.000	
0526	SPV.0060	Special 07. Grading and Shaping Temporary Path, Main Street to Laser Drive	EACH	1.000	1.000	
0528	SPV.0060	Special 08. Flashing Speed Sign Remove and Salvage	EACH	1.000	1.000	
0530	SPV.0060	Special 09. Bypass/Temporary Sewer	EACH	1.000		1.000
0532	SPV.0060	Special 10. Sanitary Sewer Manhole (48-Inch) 0'-10' Depth	EACH	12.000		12.000
0534	SPV.0060	Special 11. Connect New Manhole To Existing Sanitary Sewer	EACH	6.000		6.000
0536	SPV.0060	Special 12. 12-Inch DIP Outside Drop Sanitary Manhole	EACH	2.000		2.000
0538	SPV.0060	Special 13. Sanitary Service Wye 10-Inch x 6-Inch	EACH	2.000		2.000
0540	SPV.0060	Special 14. Sanitary Service Wye 10-Inch x 4-Inch	EACH	25.000		25.000
0542	SPV.0060	Special 15. Remove Sanitary Sewer Structure	EACH	11.000		11.000
0544	SPV.0060	Special 16. Remove Hydrant, Valve & Lead	EACH	8.000		8.000
0546	SPV.0060	Special 17. Remove Gate Valve & Box	EACH	16.000		16.000
0548	SPV.0060	Special 18. Connect To Existing Water Main	EACH	8.000		8.000
0550	SPV.0060	Special 19. 45° Bend 8-Inch	EACH	6.000		6.000
0552	SPV.0060	Special 20. 22.5° Bend 8-Inch	EACH	1.000		1.000
0554	SPV.0060	Special 21. 11.25° Bend 8-Inch	EACH	2.000		2.000
0556	SPV.0060	Special 22. Gate Valve 8-Inch	EACH	6.000		6.000
0558	SPV.0060	Special 23. Gate Valve 12-Inch	EACH	8.000		8.000
0560	SPV.0060	Special 24. 22.5° Bend 12-Inch	EACH	2.000		2.000
0562	SPV.0060	Special 25. 11.25° Bend 12-Inch	EACH	8.000		8.000
0564	SPV.0060	Special 26. Tee 12-Inch x 8-Inch	EACH	4.000		4.000
0566	SPV.0060	Special 27. Tee 12-Inch x 6-Inch	EACH	8.000		8.000
0568	SPV.0060	Special 28. Tee 12-Inch x 4-Inch	EACH	2.000		2.000
0570	SPV.0060	Special 29. Tee 8-Inch X 6-Inch	EACH	1.000		1.000
0572	SPV.0060	Special 30. Cross 12-Inch x 12-Inch	EACH	1.000		1.000
0574	SPV.0060	Special 31. Reducer 12-Inch x 8-Inch	EACH	1.000		1.000
0576	SPV.0060	Special 32. Reducer 8-Inch X 6-Inch	EACH	1.000		1.000
0578	SPV.0060	Special 33. Hydrant	EACH	7.000		7.000
0580	SPV.0060	Special 34. Gate Valve 6-Inch	EACH	9.000		9.000
0582	SPV.0060	Special 35. 11.25° Bend 6-Inch	EACH	1.000		1.000
0584	SPV.0060	Special 36. 22.5° Bend 6-Inch	EACH	1.000		1.000
0586	SPV.0060	Special 37. 45° Bend 6-Inch	EACH	2.000		2.000
0588	SPV.0060	Special 38. Gate Valve 4-Inch	EACH	2.000		2.000

Line	Item	Item Description	Unit	Total	8060-00-70 Qty	8060-00-72 Qty
0590	SPV.0060	Special 39. Curb Stop 1-Inch	EACH	22.000		22.000
0592	SPV.0060	Special 40. Corp Stop 1-Inch	EACH	22.000		22.000
0594	SPV.0060	Special 41. Curb Stop 2-Inch	EACH	2.000		2.000
0596	SPV.0060	Special 42. Corp Stop 2-Inch	EACH	2.000		2.000
0598	SPV.0060	Special 43. Watermain Testing	EACH	1.000		1.000
0600	SPV.0060	Special 44. Sanitary Sewer Televising	EACH	1.000		1.000
0602	SPV.0060	Special 45. Temporary Water	EACH	1.000		1.000
0604	SPV.0060	Special 46. Adjusting Water Valves	EACH	3.000		3.000
0606	SPV.0060	Special 47. Lighting Control Cabinet Special	EACH	1.000	1.000	
0608	SPV.0090	Special 01. Install State Furnished CAT-5E Cable	LF	1,124.000	1,124.000	
0610	SPV.0090	Special 02. Curb 8-Inch	LF	20.000	20.000	
0612	SPV.0090	Special 03. Storm Sewer PVC 8-Inch	LF	51.000	51.000	
0614	SPV.0090	Special 04. Remove and Salvage Roadway Markers and Curb	LF	330.000	330.000	
0616	SPV.0090	Special 05. Sanitary Sewer PVC 12-Inch	LF	301.000		301.000
0618	SPV.0090	Special 06. Sanitary Sewer DIP 12-Inch	LF	40.000		40.000
0620	SPV.0090	Special 07. Sanitary Sewer PVC 10-Inch	LF	2,156.000		2,156.000
0622	SPV.0090	Special 08. Sanitary Sewer PVC 8-Inch	LF	102.000		102.000
0624	SPV.0090	Special 09. Sanitary Lateral PVC 6-Inch	LF	83.000		83.000
0626	SPV.0090	Special 10. Sanitary Lateral PVC 4-Inch	LF	915.000		915.000
0628	SPV.0090	Special 11. Abandon Sanitary Sewer Pipes	LF	547.000		547.000
0630	SPV.0090	Special 12. Remove Sanitary Sewer Pipes	LF	2,033.000		2,033.000
0632	SPV.0090	Special 13. Remove Sanitary Lateral	LF	954.000		954.000
0634	SPV.0090	Special 14. Remove Watermain	LF	4,428.000		4,428.000
0636	SPV.0090	Special 15. Abandon Watermain	LF	642.000		642.000
0638	SPV.0090	Special 16. Remove Water Service	LF	926.000		926.000
0640	SPV.0090	Special 17. Ductile Iron Water Main 12-Inch	LF	2,728.000		2,728.000
0642	SPV.0090	Special 18. Ductile Iron Water Main 8-Inch	LF	376.000		376.000
0644	SPV.0090	Special 19. Ductile Iron Water Main 6-Inch	LF	331.000		331.000
0646	SPV.0090	Special 20. Ductile Iron Water Main 4-Inch	LF	157.000		157.000
0648	SPV.0090	Special 21. Copper Pipe 1-Inch	LF	791.000		791.000
0650	SPV.0090	Special 22. Copper Pipe 2-Inch	LF	46.000		46.000
0652	SPV.0200	Special 01. Sanitary Lateral Riser PVC 4-Inch	VF	90.000		90.000
0654	SPV.0200	Special 02. Sanitary Sewer Manhole (48-Inch) Greater Than 10'	VF	63.100		63.100

CATEGORY	STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0120 CLEARING ID	201.0205 GRUBBING STA	201.0220 GRUBBING ID
0010	178+22	-	182+14	LT	5	--	5	--
0010			205+50	LT	--	--	--	60
0010			210+05	RT	--	36	--	36
0010			210+25	RT	--	32	--	32
0010			210+55	RT	--	40	--	40
0010			211+50	RT	--	24	--	24
0010			212+20	RT	--	32	--	32
0010			213+30	LT	--	8	--	8
0010			215+95	RT	--	36	--	36
0010			216+05	RT	--	12	--	12
0010			217+95	RT	--	12	--	12
				TOTAL 0010	5	232	5	292
				PROJECT TOTAL	5	232	5	292

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	204.0170 REMOVING FENCE LF	REMARKS
0010	160+40	-	169+17	MEDIAN	--	1,780	1,060	--	
0010	171+48	-	193+50	STH 35	4,900	--	--	--	
0010	187+64	-	193+50	LT	--	580	--	--	
0010	193+50	-	8+17M	STH 35/ MAIN ST	5,200	--	--	--	
0010	197+30	-	197+40	RT	--	10	--	--	DIARY QUEEN PARKING LOT
0010	197+50	-	199+46	MEDIAN	--	410	130	--	
0010			199+68	ISLAND	--	--	11	--	
0010	200+40	-	203+78	STH 35	2,140	--	--	--	
0010	201+37	-	221+70	LT & RT	--	4,060	--	--	
0010	200+44	-	200+96	ISLAND	--	--	70	--	
0010			200+53	LT	--	--	19	--	
0010			200+56	RT	--	--	13	--	
0010			203+90	LT	22	--	--	--	PE ENTRANCE
0010	203+21	-	221+70	LT	--	--	1,300	--	
0010	208+30	-	208+65	LT	--	--	22	--	CHURCH ENTRANCE
0010			210+08	LT	--	--	4	--	
0010			211+39	LT	--	--	5	--	
0010	8+10 'M'	-	9+28 'M'	RT	--	--	70	91	MAIN ST
0010	8+14 'M'	-	9+42 'M'	LT	--	--	83	50	MAIN ST
0010	9+05 'M'	-	9+61 'M'	MEDIAN	--	135	36	--	MAIN ST
0010	7+89 'P'	-	9+63 'P'	PARENT ST	1,130	--	--	--	
0010	9+18 'P'	-	9+37 'P'	LT	--	--	50	--	PARENT ST
0010				180TH AVE	--	160	--	--	
0010				LAGRANDUER RD	--	350	400	--	
0010				PARENT ST	--	590	--	--	
0010				CHURCH HILL RD	--	510	--	--	
0010				KWIK TRIP ENTRANCE	430	--	--	--	
				TOTAL 0010	13,822	8,585	3,273	141	
				PROJECT TOTAL	13,822	8,585	3,273	141	

3

								STORM SEWER REMOVALS									
CATEGORY	LOCATION	STATION	- STATION	OFFSET	SIDE	DESCRIPTION	203.0100 REMOVING SMALL PIPE CULVERTS (EACH)	204.0210 REMOVING MANHOLES (EACH)	204.0220 REMOVING INLETS (EACH)	204.0245.01 REMOVING STORM SEWER (12-INCH) (LF)	204.0245.02 REMOVING STORM SEWER (15-INCH) (LF)	204.0245.03 REMOVING STORM SEWER (18-INCH) (LF)	204.0245.04 REMOVING STORM SEWER (24-INCH) (LF)	204.0245.05 REMOVING STORM SEWER (30-INCH) (LF)	204.0250 ABANDONING MANHOLES (EACH)	204.0291.S ABANDONING SEWER (CY)
0010	STH 35	160+48.66 '35'		2.4	LT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	160+48.47 '35'		12.7	LT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	160+48.66 '35'	- 160+48.47 '35'		LT		--	--	--	10	--	--	--	--	--	--
0010	STH 35	163+23.55 '35'		13.5	LT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	163+24.16 '35'		1.6	LT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	163+23.55 '35'	- 163+24.16 '35'		LT		--	--	--	--	12	--	--	--	--	--
0010	STH 35	163+23.55 '35'	- 163+24.80 '35'		LT		--	--	--	--	65	--	--	--	--	--
0010	STH 35	166+23.86 '35'		1.8	LT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	166+24.52 '35'		18.2	LT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	166+23.86 '35'	- 166+24.52 '35'		LT		--	--	--	--	16	--	--	--	--	--
0010	STH 35	166+24.52 '35'	- 166+24.81 '35'		LT		--	--	--	--	44	--	--	--	--	--
0010	STH 35	174+21.70 '35'		39.6	RT	END SECTION	--	--	1	--	--	--	--	--	--	--
0010	STH 35	175+28.96 '35'	- 175+78.87 '35'		RT	50 LF 18-INCH	1	--	--	--	--	--	--	--	--	--
0010	STH 35	189+73.51 '35'	- 190+59.71 '35'		RT	88 LF 12-INCH	1	--	--	--	--	--	--	--	--	--
0010	STH 35	194+78.15 '35'	- 195+38.13 '35'		RT	62 LF 24-INCH	1	--	--	--	--	--	--	--	--	--
0010	STH 35	199+37.17 '35'		3.1	LT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	199+72.94 '35'		19.0	RT		--	1	--	--	--	--	--	--	--	--
0010	STH 35	198+53.33 '35'	- 199+72.94 '35'		RT	INCLUDES END SECTION	--	--	--	--	--	--	--	126	--	--
0010	STH 35	199+37.10 '35'	- 199+72.94 '35'		LT/RT		--	--	--	42	--	--	--	--	--	--
0010	STH 35	200+59.14 '35'		14.8	LT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	200+73.06 '35'		45.9	LT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	200+90.52 '35'		34.7	RT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	199+72.94 '35'	- 200+59.14 '35'		LT/RT		--	--	--	--	58	--	--	--	--	--
0010	STH 35	200+59.14 '35'	- 200+73.06 '35'		LT		--	--	--	34	--	--	--	--	--	--
0010	STH 35	200+59.14 '35'	- 200+90.52 '35'		LT/RT		--	--	--	58	--	--	--	--	--	--
0010	STH 35	201+85.28 '35'		9.1	RT		--	1	--	--	--	--	--	--	--	--
0010	STH 35	201+95.93 '35'		25.7	LT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	201+99.08 '35'		32.3	RT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	201+85.28 '35'	- 201+95.93 '35'		LT/RT		--	--	--	--	--	--	36	--	--	--
0010	STH 35	201+85.28 '35'	- 201+99.08 '35'		RT		--	--	--	--	--	--	27	--	--	--
0010	STH 35	204+84.26 '35'		68.0	RT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	204+89.39 '35'		17.9	RT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	205+48.16 '35'		39.5	RT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	201+99.08 '35'	- 204+89.39 '35'		RT		--	--	--	--	--	287	--	--	--	--
0010	STH 35	201+99.98 '35'		52.7	LT		--	--	--	--	--	--	--	--	1	--
0010	STH 35	201+95.93 '35'	- 201+99.98 '35'		LT		--	--	--	--	--	--	--	--	--	4.9
0010	STH 35	201+99.98 '35'	- 202+07.47 '35'		LT	INCLUDES END SECTION	--	--	--	--	--	--	--	--	--	5.5
0010	STH 35	204+84.26 '35'	- 205+48.16 '35'		RT		--	--	--	--	69	--	--	--	--	--
0010	STH 35	204+89.39 '35'	- 204+84.26 '35'		RT		--	--	--	--	50	--	--	--	--	--
0010	STH 35	211+71.88 '35'		20.3	RT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	211+72.79 '35'		21.8	LT		--	--	1	--	--	--	--	--	--	--
0010	STH 35	211+71.72 '35'	- 211+71.88 '35'		RT	INCLUDES END SECTION	--	--	--	--	--	--	8	--	--	--
0010	STH 35	211+71.91 '35'	- 211+72.79 '35'		LT/RT		--	--	--	--	--	--	42	--	--	--
0010	STH 35	211+72.79 '35'	- 211+73.35 '35'		LT	INCLUDES END SECTION	--	--	--	--	--	--	26	--	--	--
						SUBTOTAL 0010	3	2	18	145	314	287	140	126	1	10.4

3

STORM SEWER REMOVALS (CONTINUED)

CATEGORY	LOCATION	STATION	-	STATION	OFFSET	SIDE	DESCRIPTION	203.0100 REMOVING SMALL PIPE CULVERTS (EACH)	204.0210 REMOVING MANHOLES (EACH)	204.0220 REMOVING INLETS (EACH)	204.0245.01 REMOVING STORM SEWER (12-INCH) (LF)	204.0245.02 REMOVING STORM SEWER (15-INCH) (LF)	204.0245.03 REMOVING STORM SEWER (18-INCH) (LF)	204.0245.04 REMOVING STORM SEWER (24-INCH) (LF)	204.0245.05 REMOVING STORM SEWER (30-INCH) (LF)	204.0250 ABANDONING MANHOLES (EACH)	204.0291.S ABANDONING SEWER (CY)
0010	PARENT ST	8+07.20 'P'			17.8	RT		--	--	1	--	--	--	--	--	--	--
0010	PARENT ST	8+07.50 'P'			17.6	LT		--	--	1	--	--	--	--	--	--	--
0010	PARENT ST	8+14.62 'P'			18.1	LT		--	--	1	--	--	--	--	--	--	--
0010	PARENT ST	8+07.20 'P'	-	8+08.21 'P'		RT	TO EXISTING MANHOLE	--	--	--	12	--	--	--	--	--	--
0010	PARENT ST	8+07.20 'P'	-	8+14.62 'P'		LT/RT		--	--	--	37	--	--	--	--	--	--
0010	PARENT ST	8+07.50 'P'	-	8+14.62 'P'		LT		--	--	--	8	--	--	--	--	--	--
0010	PARENT ST	8+69.76 'P'			26.3	RT		--	--	1	--	--	--	--	--	--	--
0010	PARENT ST	8+08.21 'P'	-	8+69.76 'P'		RT	FROM EXISTING MANHOLE	--	--	--	53	--	--	--	--	--	--
0010	PARENT ST	9+48.37 'P'			15.6	RT		--	1	--	--	--	--	--	--	--	--
0010	PARENT ST	8+69.76 'P'	-	9+48.73		RT		--	--	--	71	--	--	--	--	--	--
0010	PARENT ST	9+24.80 'P'			62.6	LT		--	1	--	--	--	--	--	--	--	--
0010	PARENT ST	9+38.03 'P'			48.2	LT		--	--	1	--	--	--	--	--	--	--
0010	PARENT ST	9+21.52 'P'	-	9+24.80 'P'		LT	INCLUDES END SECTION	--	--	--	--	--	--	--	42	--	--
0010	PARENT ST	9+24.80 'P'	-	9+38.03 'P'		LT		--	--	--	22	--	--	--	--	--	--
0010	PARENT ST	9+24.80 'P'	-	9+48.37 'P'		LT/RT		--	--	--	--	--	--	--	82	--	--
0010	PARENT ST	9+40.80 'P'	-	9+48.37 'P'		RT	INCLUDES END SECTION	--	--	--	--	--	--	--	83	--	--
0010	PARENT ST	9+48.37 'P'	-	199+72.98 '35'		RT		--	--	--	--	--	--	--	71	--	--
							SUBTOTAL 0010	0	2	5	203	0	0	0	278	0	0.0
							TOTAL 0010	3	4	23	348	314	287	140	404	1	10.4
							PROJECT TOTAL	3	4	23	348	314	287	140	404	1	10.4

							205.0100						208.0100	
CATEGORY	STATION	TO	STATION	LOCATION	CUT (1) CY	EBS CY	EXCAVATION COMMON (2) CY	SALVAGED / UNUSABLE MATERIAL (3) CY	AVAILABLE MATERIAL (4) CY	UNEXPANDED FILL CY	EXPANDED FILL (5) CY	MASS ORDINATE +/- (6) CY	BORROW CY	REMARKS
0010	160+27	-	195+00	STAGE 1	1,402	0	1,402	0	1,402	1,296	1,620	-218	218	
						STAGE 1 TOTAL	1,402							
0010	160+27	-	195+00	STAGE 2	4,994	200	5,194	1,394	3,800	347	433	3,367	--	
0010				180TH AVE	218	0	218	0	218	0	0	218	--	
						STAGE 2 TOTAL	5,412						0	
0010	160+27	-	195+00	STAGE 3	2,501	200	2,701	1,394	1,307	0	0	1,307		
						STAGE 3 TOTAL	2,701					1,307		
0010	160+27	-	195+00	STAGE 4	4,252	50	3,804	0	3,804	385	481	3,323	--	
0010				LAGRANDUER RD	399	0	399	0	399	63	78	321	--	
						STAGE 4 TOTAL	4,203					3,644	0	
0010	195+00	-	222+31	STH 35	8,680	300	8,156	4,491	3,665	613	766	2,899	--	
0010				MAIN ST	798	0	798	0	798	8	9	789	--	
0010				PARENT ST	740	0	740	251	489	36	45	444	--	
0010				KWIK TRIP ENTRANCE	120	0	120	58	62	4	4	58	--	
0010				SCHACHTNER ST	61	0	61	11	50	0	0	50	--	
						DIVISION TOTAL	9,875					4,241	0	
						TOTAL 0010	23,593						218	
0030	174+00	-	195+00	MULTI USE PATH	498	0	498	0	498	0	0	498	--	STAGE 4
						STAGE 4 TOTAL	498							
0030	195+00	-	222+31	MULTI USE PATH	824	0	824	0	824	0	0	824	--	
						DIVISION TOTAL	824							
						TOTAL 0030	1,322						0	
						PROJECT TOTAL	24,915						218	

(1) SALVAGED/UNUSEABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(2) COMMON EXCAVATION = CUT + EBS.
(3) SALVAGED/UNUSEABLE PAVEMENT MATERIAL
(4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSEABLE PAVEMENT MATERIAL
(5) EXPANDED FILL FACTOR = 1.20
(6) THE MASS ORDINATE + OR - QUANTITY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION.
MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

211.0201.01 PREPARE FOUNDATION FOR CONCRETE PAVEMENT (PROJECT) (01. 8060-00-70)

CATEGORY	STATION	TO	STATION	LOCATION	EACH
0010	160+27	-	222+31	STH 35	0.96
				TOTAL 0010	0.96
0020	209+45	-	214+00	PARKING	0.04
				TOTAL 0020	0.04
				PROJECT TOTAL	1

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
0010	160+77	-	200+00	SB 35	940	2,970	59
0010	160+28	-	200+00	NB 35	1,030	3,060	61
0010	160+28	-	164+88	LT TURN LANE	--	300	5
0010	160+77	-	165+68	RT TURN LANE	--	340	5
0010	185+90	-	191+28	RT TURN LANE	--	300	5
0010	185+90	-	200+00	MEDIAN	--	620	9
0010	201+37	-	221+43	NB 35	--	1,310	20
0010	201+37	-	221+43	SB 35	--	1,730	26
0010	201+37	-	204+81	MEDIAN	--	180	3
0010	204+93	-	210+07	MEDIAN	--	250	4
0010	221+43	-	222+31	STH 35	17	450	7
0010				MAIN ST	--	220	3
0010				PARENT ST	--	750	11
0010				CHURCH HILL RD	--	730	11
0010				180TH AVE	7	290	4
0010				LAGRANDEUR RD	--	780	12
0010				KWIK TRIP ENTRANCE	--	120	2
0010				SCHACHTNER ST	--	60	1
0010	161+09	-	194+89	TEMP WIDENING	110	2,850	44
0010				DRIVEWAYS	100	650	11
0010				SIDEWALK	--	1,030	15
0010				APPROACH SLAB	--	60	--
0010				CONCRETE APRONS	--	100	--
0010				TEMP DRIVEWAYS	--	200	--
0010				TEMP PATH	--	210	--
0010				UNDISTRIBUTED	100	500	9
				TOTAL 0010	2,304	20,060	327
0020	209+45	-	214+00	SB PARKING LANE	--	220	4
				TOTAL 0020	0	220	4
0030	173+78	-	175+43	PATH	--	110	2
0030	175+64	-	176+54	PATH	--	50	1
0030	176+77	-	184+42	PATH	--	340	5
0030	184+88	-	190+02	PATH	--	270	4
0030	195+22	-	204+82	PATH	--	400	6
0030	205+19	-	211+00	PATH	--	270	4
0030	211+30	-	222+01	PATH	--	490	7
				TOTAL 0030	0	1,930	29
				PROJECT TOTAL	2,304	22,210	360

CATEGORY	STATION	TO	STATION	LOCATION	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	415.1080 CONCRETE PAVEMENT HES 8-INCH SY	415.4100 CONCRETE PAVEMENT JOINT FILLING SY
0010	160+77	-	193+60	SB 35	5,220	3	--	--	--
0010	160+28	-	193+60	NB 35	5,430	3	--	--	--
0010	160+28	-	164+88	LT TURN LANE	600	--	--	--	--
0010	160+77	-	165+68	RT TURN LANE	764	--	--	--	--
0010	185+90	-	191+28	RT TURN LANE	652	--	--	--	--
0010	185+90	-	193+60	MEDIAN	810	--	--	--	--
0010	193+60	-	200+00	SB 35	991	--	--	--	991
0010	193+60	-	200+00	NB 35	928	--	--	--	928
0010	193+60	-	200+00	MEDIAN	851	--	--	--	851
0010	201+37	-	221+43	NB 35	3,020	3	--	84	3,420
0010	201+37	-	221+43	SB 35	4,370	3	--	84	4,710
0010	201+37	-	204+81	MEDIAN	506	--	--	--	526
0010	204+93	-	210+07	MEDIAN	677	--	--	--	718
0010				MAIN ST	643	--	83	--	756
0010				PARENT ST	1,250	--	--	--	1,340
0010				CHURCH HILL RD	1,710	--	--	--	1,810
0010				180TH AVE	575	--	--	--	629
0010				LAGRANDEUR RD	1,770	--	--	--	1,880
0010				KWIK TRIP ENTRANCE	259	--	--	--	311
0010				SCHACHTNER ST	59	--	--	--	70
				TOTAL 0010	31,085	12	83	168	18,940
0020	209+45	-	214+00	SB 35	410	--	--	--	510
				TOTAL 0020	410	0	0	0	510
				PROJECT TOTAL	31,495	12	83	168	19,450

3

CATEGORY	STATION	LOCATION	416.0160 CONCRETE DRIVEWAY 6-INCH SY
0010	190+13	RT	318
0010	204+75	LT	17
0010	205+93	LT	8
0010	206+29	LT	11
0010	207+19	RT	24
0010	207+46	LT	18
0010	208+51	RT	24
0010	209+02	LT	10
0010	211+38	LT	8
0010	212+45	RT	10
0010	213+77	RT	13
0010	214+23	RT	11
0010	214+29	LT	10
0010	215+48	RT	19
0010	215+74	LT	9
0010	216+59	LT	8
0010	216+60	RT	13
0010	217+40	LT	15
0010	217+70	RT	9
0010	218+32	RT	12
0010	218+38	LT	8
0010	219+45	RT	15
0010	220+38	LT	14
0010	9+00 'M'	RT	18
		TOTAL 0010	622
		PROJECT TOTAL	622

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.5244 HMA PAVEMENT 4 LT 58-34 S TON	465.0105 ASPHALTIC SURFACE TON	465.0115 ASPHALTIC SURFACE DETOURS TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	REMARKS
0010	221+43	-	222+31	MAINLINE	50	--	270	--	--	--	
0010				LAGRANDEUR RD	10	--	10	--	--	--	
0010				180TH AVE	10	--	10	--	--	--	
0010				PARENT ST	30	--	80	--	--	--	
0010				SCHACHTNER RD	10	--	10	--	--	--	
0010	160+42	-	163+77	TEMP WIDENING	20	--	--	--	--	70	STAGE 1
0010	161+09	-	169+22	TEMP WIDENING	50	--	--	--	--	130	STAGE 1
0010				DETOUR	30	--	--	100	--	--	
0010				DRIVEWAYS	--	--	--	--	430	--	
				TOTAL 0010	210	0	380	100	430	200	
					--						
0030	173+81	-	175+42	PATH	--	30	--	--	--	--	
0030	175+66	-	176+54	PATH	--	20	--	--	--	--	
0030	176+78	-	184+40	PATH	--	100	--	--	--	--	
0030	184+87	-	190+01	PATH	--	80	--	--	--	--	
0030	194+76	-	204+81	PATH	--	110	--	--	--	--	
0030	205+19	-	207+75	PATH	--	40	--	--	--	--	
0030	208+00	-	210+70	PATH	--	40	--	--	--	--	
0030	211+30	-	221+44	PATH	--	140	--	--	--	--	
0030	221+60	-	222+00	PATH	--	10	--	--	--	--	
				TOTAL 0030	0	570	0	0	0	0	
				PROJECT TOTAL	210	570	380	100	430	200	

3

CATEGORY	LOCATION	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	REMARKS
0020	UNDISTRIBUTED	10	10	FOR MANHOLE LOCATIONS AS NECESSARY
	TOTAL 0020	10	10	
	PROJECT TOTAL	10	10	

CATEGORY	STATION	LOCATION	465.0315 ASPHALTIC FLUMES SY
0010	193+40	LT	9
0010	19+35 'TH'	RT	9
		TOTAL 0010	18
		PROJECT TOTAL	18

CATEGORY	STATION	TO	STATION	LOCATION	520.2018 CULVERT PIPE TEMPORARY 18-INCH LF	520.2024 CULVERT PIPE TEMPORARY 24-INCH LF	520.8000 CONCRETE COLLARS FOR PIPE EACH	204.9060.S.01 REMOVING (ITEM DESCRIPTION) (03. REMOVING ENDWALLS) EACH
0010	175+32	-	175+77	RT	45	--	--	--
0010	194+52	-	194+75	RT	--	27	1	1
				TOTAL 0010	45	27	1	1
				PROJECT TOTAL	45	27	1	1

CATEGORY	STATION	-	STATION	LOCATION	520.1012 APRON ENDWALLS FOR CULVERT PIPE 12-INCH (EACH)	520.1015 APRON ENDWALLS FOR CULVERT PIPE 15-INCH (EACH)	520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH (EACH)	520.3512 CULVERT PIPE CLASS III-B 12-INCH (LF)	520.3515 CULVERT PIPE CLASS III-B 15-INCH (LF)	520.3518 CULVERT PIPE CLASS III-B 18-INCH (LF)	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH (LF)	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH (EACH)
0010	175+28.12 '35'	-	175+78.55 '35'	RT	--	--	2	--	--	50	--	--
0010	189+70.55 '35'	-	190+64.50 '35'	RT	2	--	--	96	--	--	--	--
0010	194+72.30 '35'	-	195+43.00 '35'	RT	--	--	--	--	--	--	72	2
				TOTAL 0010	2	0	2	96	0	50	72	2
0030	198+26.19 '35'	-	198+35.10 '35'	RT	--	2	--	--	30	--	--	--
0030	198+30.71 '35'	-	198+39.69 '35'	RT	--	2	--	--	30	--	--	--
				TOTAL 0030	0	4	0	0	60	0	0	0
				PROJECT TOTAL	2	4	2	96	60	50	72	2

CATEGORY	STATION	TO	STATION	LOCATION	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0555 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	601.0586 CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE TBTT LF	SPV.0090.02 SPECIAL (02. CURB 8-INCH) LF	REMARKS
0010	160+27	-	160+84	MEDIAN	--	134	--	--	--	--	--	--	
0010	160+84	-	169+24	MEDIAN	--	--	--	1,670	--	--	--	--	
0010	187+65	-	193+34	LT	--	--	--	--	--	562	--	--	
0010	197+30	-	197+40	RT	10	--	--	--	--	--	--	--	DIARY QUEEN PARKING LOT
0010	200+22	-	200+84	MEDIAN	--	145	--	--	--	--	--	--	
0010	200+00	-	201+37	RT	--	144	--	--	--	--	--	--	
0010	200+00	-	201+37	LT	--	154	--	--	--	--	--	--	
0010	201+37	-	221+43	RT	--	1,810	--	--	--	--	--	--	
0010	201+37	-	221+43	LT	--	2,020	--	--	--	--	--	--	
0010	204+70	-	205+89	MEDIAN	--	271	--	--	--	--	--	--	
0010	221+43	-	222+31	RT	--	--	38	--	--	--	--	--	
0010	221+43	-	222+31	LT	--	--	53	--	--	--	--	--	
0010	7+89 'P'	-	8+71 'P'	PARENT ST	--	--	166	--	--	--	--	--	
0010	8+71 'P'	-	9+61 'P'	PARENT ST	--	333	--	--	--	--	--	--	
0010	8+11 'M'	-	9+25 'M'	MAIN ST	--	--	--	--	--	--	205	--	
0010	19+06 'TH'	-	19+16 'TH'	180TH AVE	--	--	--	--	10	--	--	--	
0010	19+16 'TH'	-	19+81 'TH'	180TH AVE	--	--	--	161	--	--	--	--	
0010	20+25 'L'	-	20+65 'L'	LAGRANDEUR RD	--	98	--	--	--	--	--	--	MEDIAN
0010	20+30 'L'	-	21+05 'L'	LAGRANDEUR RD	--	--	--	232	--	--	--	--	
0010	21+05 'L'	-	21+10 'L'	LAGRANDEUR RD	--	--	--	--	30	--	--	--	
0010	10+10 'KT'	-	10+53 'KT'	KWIK TRIP ENTRANCE	--	154	--	--	--	--	--	--	
0010	10+13 'S'	-	10+35 'S'	SCHACHTNER ST	--	53	--	--	--	--	--	--	
0010	10+35 'S'	-	10+45 'S'	SCHACHTNER ST	--	--	24	--	--	--	--	--	
0010			207+46	CE LT	--	--	--	--	--	--	--	20	
				TOTAL 0010	10	5,316	281	2,063	40	562	205	20	
				PROJECT TOTAL	10	5,316	281	2,063	40	562	205	20	

CATEGORY	STATION	TO	STATION	LOCATION	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0415 CONCRETE SIDEWALK 6-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	REMARKS
0010			160+51	ISLAND	--	260	--	--	--	
0010	160+92	-	169+17	MEDIAN	--	8,980	--	--	--	
0010			173+36	ISLAND	--	290	--	--	--	
0010			199+38	RT	--	120	--	12	--	
0010			199+68	ISLAND	--	180	--	--	--	
0010	200+27	-	200+76	ISLAND	57	580	--	36	--	
0010			200+61	LT	--	160	--	12	--	
0010			204+70	RT	--	220	--	20	--	
0010			205+38	RT	--	250	--	20	--	
0010	204+67	-	205+87	MEDIAN	--	630	--	--	--	
0010			207+90	LT	--	57	--	12	--	
0010			207+91	RT	--	410	--	12	--	
0010	208+30	-	208+65	LT	--	130	--	--	--	CHURCH ENTRANCE
0010			210+08	LT	--	21	--	--	--	
0010			210+77	LT	28	27	--	12	--	
0010			210+77	RT	--	180	--	12	--	
0010			210+88	RT	--	170	--	20	--	
0010			211+37	RT	--	160	--	20	--	
0010	203+22	-	221+44	LT	--	7,570	1,120	--	--	DRIVEWAYS
0010			221+52	LT	--	89	--	12	--	
0010			221+52	RT	--	290	--	12	--	
0010			221+67	LT	--	89	--	--	16.2	
0010	8+13 'M'	-	9+30 'M'	RT	--	640	--	--	--	MAIN ST
0010	8+14 'M'	-	9+33 'M'	LT	--	680	--	--	--	MAIN ST
0010			9+51 'M'	RT	--	180	--	12	--	MAIN ST
0010	8+87 'M'	-	9+16 'M'	LT	--	320	126	--	--	MAIN ST
				TOTAL 0010	85	22,683	1,246	224	16.2	
				PROJECT TOTAL	85	22,683	1,246	224	16.2	

CATEGORY	STATION	LOCATION	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
0010	160+31	MEDIAN	6
0010	160+86	MEDIAN	15
0010	160+90	MEDIAN	20
0010	169+20	MEDIAN	69
0010	204+69	MEDIAN	85
0010	205+90	MEDIAN	56
0010		PARENT ST	65
0010		CHURCH HILL RD	65
0010		LAGRANDEUR RD	66
		TOTAL 0010	447
		PROJECT TOTAL	447

CATEGORY	STATION	TO	STATION	LOCATION	205.0300 EXCAVATION STONE PILES AND STONE FENCES CY	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY	REMARKS
0010			163+25	LT	--	4	14	ENDWALL
0010			166+39	LT	--	3	13	ENDWALL
0010	189+60	-	198+05	RT & LT	--	36	144	DITCH, ENDWALLS AND FLUME
0010			194+80	RT	8	--	--	EXISTING RIPRAP
0010			195+45	RT	8	--	--	EXISTING RIPRAP
0010			197+35	RT	6	--	--	EXISTING RIPRAP
0010			198+25	RT	4	--	--	EXISTING RIPRAP
0010			198+25	RT	4	--	--	EXISTING RIPRAP
0010			213+33	LT	--	10	30	ENDWALL
0010			8+13 'M'	RT	--	5	16	MAIN ST
0010			9+23 'P'	LT	--	20	50	PARENT ST
0010			UNDISTRIBUTED		--	10	30	
				TOTAL 0010	30	88	297	
				PROJECT TOTAL	30	88	297	

STORM SEWER

CATEGORY	START STRUCTURE	STATION	(1) OFFSET	LOCATION	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH (EACH)	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH (EACH)	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH (EACH)	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH (EACH)	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH (EACH)	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH (LF)	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH (LF)	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH (LF)
0010	160.0	160+48.52 '35'	15.8	LT	--	--	--	--	--	--	--	--
0010	160.2	160+48.66 '35'	2.4	LT	--	--	--	--	--	--	--	--
0010	161.1	161+25.00 '35'	1.0	LT	--	--	--	--	--	--	--	--
0010	161.0	161+25.00 '35'	9.2	LT	--	--	--	--	--	--	--	--
0010	163.0	163+25.00 '35'	1.0	LT	--	--	--	--	--	--	--	--
0010	163.1	163+25.00 '35'	12.9	LT	--	--	--	--	--	--	--	--
0010	163.2	163+25.00 '35'	69.4	LT	--	1	--	--	--	--	--	--
0010	167.1	166+39.49 '35'	57.2	LT	1	--	--	--	--	--	--	--
0010	167.0	167+44.56 '35'	17.8	LT	--	--	--	--	--	--	--	--
0010	EX 173.0	172+83.13 '35'	89.3	RT	--	--	--	--	--	--	--	--
0010	EX 173.1	173+47.62 '35'	87.1	RT	--	--	--	--	--	--	--	--
0010	174.0	174+22.09 '35'	39.9	RT	--	--	--	--	--	--	--	--
0010	ROOF DRAIN	198+46.59 '35'	57.2	RT	--	--	--	--	--	--	--	--
0010	199.0	198+96.76 '35'	36.0	RT	--	--	--	--	--	--	--	--
0010	200.3	200+49.79 '35'	18.5	RT	--	--	--	--	--	--	--	--
0010	200.0	200+50.00 '35'	13.3	LT	--	--	--	--	--	--	--	--
0010	200.2	200+69.00 '35'	40.2	LT	--	--	--	--	--	--	--	--
0010	200.1	200+87.00 '35'	37.8	RT	--	--	--	--	--	--	--	--
0010	201.0	200+99.00 '35'	36.9	RT	--	--	--	--	--	--	--	--
0010	ROOF DRAIN	201+35.05 '35'	45.2	RT	--	--	--	--	--	--	--	--
0010	202.2	201+96.00 '35'	25.0	LT	--	--	--	--	--	--	--	--
0010	202.0	201+96.00 '35'	5.8	RT	--	--	--	--	--	--	--	--
0010	202.1	201+96.00 '35'	33.0	RT	--	--	--	--	--	--	--	--
0010	202.5	202+14.27 '35'	55.0	RT	--	--	--	--	--	--	--	--
0010	204.0	204+86.77 '35'	13.1	RT	--	--	--	--	--	--	--	--
0010	204.1	204+99.69 '35'	25.0	LT	--	--	--	--	--	--	--	--
0010	205.0	205+48.00 '35'	38.6	RT	--	--	--	--	--	--	--	--
0010	205.1	205+62.68 '35'	56.3	RT	--	--	--	--	--	--	--	--
0010	210.0	210+85.00 '35'	16.0	RT	--	--	--	--	--	84	--	--
0010	211.0	211+72.00 '35'	6.0	RT	--	--	--	--	--	--	--	60
0010	211.2	211+72.00 '35'	16.5	RT	--	--	--	--	--	--	7	--
0010	211.3	211+72.00 '35'	21.5	LT	--	--	--	--	--	24	--	--
0010	211.1	211+72.00 '35'	37.0	RT	--	--	1	--	--	--	20	--
0010	212.1	212+30.21 '35'	16.0	RT	--	--	--	--	--	9	--	--
0010	212.0	212+37.24 '35'	6.0	RT	--	--	--	--	--	--	--	48
0010	212.2	212+37.24 '35'	21.0	LT	--	--	--	--	--	24	--	--
0010	213.0	212+90.00 '35'	6.0	RT	--	--	--	--	--	--	--	--
0010	213.1	212+90.00 '35'	16.5	RT	--	--	--	--	--	7	--	--
0010	213.2	212+90.00 '35'	21.5	LT	--	--	--	--	--	24	--	--
0010	214.0	213+33.00 '35'	6.0	RT	--	--	--	--	--	--	--	--
0010	214.1	213+33.00 '35'	16.5	RT	--	--	--	--	--	7	--	--
0010	214.2	213+33.00 '35'	21.0	LT	--	--	--	--	--	--	--	--
0010	214.3	213+33.00 '35'	54.6	LT	--	--	--	1	--	--	--	--
0010	8.2	7+96.00 'P'	17.0	RT	--	--	--	--	--	--	--	--
0010	8.0	8+07.50 'P'	16.7	RT	--	--	--	--	--	--	--	--
0010	8.1	8+07.50 'P'	16.8	LT	--	--	--	--	--	--	--	--
0010	EX 8.3	8+08.25 'P'	29.7	RT	--	--	--	--	--	--	--	--
0010	9.6	8+70.80 'P'	26.0	RT	--	--	--	--	--	--	--	--
0010	9.4	9+15.29 'P'	36.8	RT	--	--	--	--	--	--	--	--
0010	9.3	9+22.60 'P'	89.2	LT	--	--	--	--	1	--	--	--
0010	9.2	9+25.00 'P'	62.6	LT	--	--	--	--	--	--	--	--
0010	9.1	9+37.00 'P'	106.2	RT	--	--	--	--	--	--	--	--
0010	9.0	9+39.00 'P'	18.9	RT	--	--	--	--	--	--	--	--
0010	9.5	9+45.00 'P'	53.2	LT	--	--	--	--	--	--	--	--
0010	B3	8+18.94 'M'	34.1	RT	1	--	--	--	--	--	--	--
0010	B2	8+25.20 'M'	23.4	RT	--	--	--	--	--	--	--	--
0010	B1	8+27.92 'M'	21.8	LT	--	--	--	--	--	--	--	--
				TOTAL 0010	2	1	1	1	1	179	27	108
				PROJECT TOTAL	2	1	1	1	1	179	27	108

(1) OFFSET TO STRUCTURES ARE AT THE CENTER OF STRUCTURES

STORM SEWER (CONTINUED)

CATEGORY	START STRUCTURE	STATION	(1) OFFSET	LOCATION	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH (LF)	608.3612 STORM SEWER PIPE CLASS III-B 12-INCH (LF)	608.3615 STORM SEWER PIPE CLASS III-B 15-INCH (LF)	608.3624 STORM SEWER PIPE CLASS III-B 24-INCH (LF)	608.3630 STORM SEWER PIPE CLASS III-B 30-INCH (LF)	608.3636 STORM SEWER PIPE CLASS III-B 36-INCH (LF)	611.0530 MANHOLE COVERS TYPE J (EACH)	611.0600 INLET COVERS TYPE A (EACH)	611.0612 INLET COVERS TYPE C (EACH)	611.0624 INLET COVERS TYPE H (EACH)	611.0627 INLET COVERS TYPE HM (EACH)	611.0639 INLET COVERS TYPE H-S (EACH)
0010	160.0	160+48.52 '35'	15.8	LT	--	--	--	--	--	--	--	--	--	--	1	--
0010	160.2	160+48.66 '35'	2.4	LT	--	--	--	--	--	10	1	--	--	--	--	--
0010	161.1	161+25.00 '35'	1.0	LT	--	6	--	--	--	--	--	--	--	--	1	--
0010	161.0	161+25.00 '35'	9.2	LT	--	73	--	--	--	--	--	--	--	--	1	--
0010	163.0	163+25.00 '35'	1.0	LT	--	10	--	--	--	--	--	--	--	--	1	--
0010	163.1	163+25.00 '35'	12.9	LT	--	--	56	--	--	--	--	--	--	--	1	--
0010	163.2	163+25.00 '35'	69.4	LT	--	--	--	--	--	--	--	--	--	--	--	--
0010	167.1	166+39.49 '35'	57.2	LT	--	--	--	--	--	--	--	--	--	--	--	--
0010	167.0	167+44.56 '35'	17.8	LT	--	112	--	--	--	--	--	--	--	--	1	--
0010	EX 173.0	172+83.13 '35'	89.3	RT	--	--	--	--	--	--	--	--	--	--	--	--
0010	EX 173.1	173+47.62 '35'	87.1	RT	--	--	--	--	--	--	--	--	--	--	--	--
0010	174.0	174+22.09 '35'	39.9	RT	--	--	--	--	--	--	--	--	--	--	--	--
0010	ROOF DRAIN	198+46.59 '35'	57.2	RT	--	--	--	--	--	--	--	--	--	--	--	--
0010	199.0	198+96.76 '35'	36.0	RT	--	--	--	--	84	--	--	--	--	--	--	--
0010	200.3	200+49.79 '35'	18.5	RT	--	--	--	--	110	--	1	--	--	--	--	--
0010	200.0	200+50.00 '35'	13.3	LT	--	--	32	--	--	--	--	--	--	1	--	--
0010	200.2	200+69.00 '35'	40.2	LT	--	32	--	--	--	--	--	--	--	1	--	--
0010	200.1	200+87.00 '35'	37.8	RT	--	--	--	--	41	--	--	--	--	--	--	1
0010	201.0	200+99.00 '35'	36.9	RT	--	--	--	8	--	--	--	--	--	--	--	1
0010	ROOF DRAIN	201+35.05 '35'	45.2	RT	--	--	--	--	--	--	--	--	--	--	--	--
0010	202.2	201+96.00 '35'	25.0	LT	--	31	--	--	--	--	--	--	--	1	--	--
0010	202.0	201+96.00 '35'	5.8	RT	--	--	--	99	--	--	1	--	--	--	--	--
0010	202.1	201+96.00 '35'	33.0	RT	--	--	24	--	--	--	--	--	--	1	--	--
0010	202.5	202+14.27 '35'	55.0	RT	--	28	--	--	--	--	--	--	1	--	--	--
0010	204.0	204+86.77 '35'	13.1	RT	--	--	--	287	--	--	1	--	--	--	--	--
0010	204.1	204+99.69 '35'	25.0	LT	--	40	--	--	--	--	--	--	--	1	--	--
0010	205.0	205+48.00 '35'	38.6	RT	--	64	--	--	--	--	--	--	--	1	--	--
0010	205.1	205+62.68 '35'	56.3	RT	--	23	--	--	--	--	--	--	1	--	--	--
0010	210.0	210+85.00 '35'	16.0	RT	--	--	--	--	--	--	--	--	--	1	--	--
0010	211.0	211+72.00 '35'	6.0	RT	--	--	--	--	--	--	1	--	--	--	--	--
0010	211.2	211+72.00 '35'	16.5	RT	--	--	--	--	--	--	--	--	--	1	--	--
0010	211.3	211+72.00 '35'	21.5	LT	--	--	--	--	--	--	--	--	--	1	--	--
0010	211.1	211+72.00 '35'	37.0	RT	--	--	--	--	--	--	--	--	--	--	--	--
0010	212.1	212+30.21 '35'	16.0	RT	--	--	--	--	--	--	--	--	--	--	--	1
0010	212.0	212+37.24 '35'	6.0	RT	--	--	--	--	--	--	1	--	--	--	--	--
0010	212.2	212+37.24 '35'	21.0	LT	--	--	--	--	--	--	--	--	--	--	--	1
0010	213.0	212+90.00 '35'	6.0	RT	38	--	--	--	--	--	1	--	--	--	--	--
0010	213.1	212+90.00 '35'	16.5	RT	--	--	--	--	--	--	--	--	--	1	--	--
0010	213.2	212+90.00 '35'	21.5	LT	--	--	--	--	--	--	--	--	--	1	--	--
0010	214.0	213+33.00 '35'	6.0	RT	25	--	--	--	--	--	1	--	--	--	--	--
0010	214.1	213+33.00 '35'	16.5	RT	--	--	--	--	--	--	--	--	--	1	--	--
0010	214.2	213+33.00 '35'	21.0	LT	34	--	--	--	--	--	--	--	--	1	--	--
0010	214.3	213+33.00 '35'	54.6	LT	--	--	--	--	--	--	--	--	--	--	--	--
0010	8.2	7+96.00 'P'	17.0	RT	--	9	--	--	--	--	--	--	--	1	--	--
0010	8.0	8+07.50 'P'	16.7	RT	--	--	13	--	--	--	--	--	--	1	--	--
0010	8.1	8+07.50 'P'	16.8	LT	--	31	--	--	--	--	--	--	--	1	--	--
0010	EX 8.3	8+08.25 'P'	29.7	RT	--	--	51	--	--	--	--	--	--	--	--	--
0010	9.6	8+70.80 'P'	26.0	RT	--	--	37	--	--	--	--	--	--	1	--	--
0010	9.4	9+15.29 'P'	36.8	RT	--	--	--	--	24	--	--	--	--	--	--	1
0010	9.3	9+22.60 'P'	89.2	LT	--	--	--	--	--	--	--	--	--	--	--	--
0010	9.2	9+25.00 'P'	62.6	LT	--	--	--	--	--	24	1	--	--	--	--	--
0010	9.1	9+37.00 'P'	106.2	RT	--	--	--	--	71	--	--	--	--	--	--	--
0010	9.0	9+39.00 'P'	18.9	RT	--	--	--	--	--	76	1	--	--	--	--	--
0010	9.5	9+45.00 'P'	53.2	LT	--	25	--	--	--	--	--	--	--	1	--	--
0010	B3	8+18.94 'M'	34.1	RT	--	--	--	--	--	--	--	--	--	--	--	--
0010	B2	8+25.20 'M'	23.4	RT	--	14	--	--	--	--	--	1	--	--	--	--
0010	B1	8+27.92 'M'	21.8	LT	--	45	--	--	--	--	--	1	--	--	--	--
				TOTAL 0010	97	543	213	394	330	110	10	2	2	18	6	5
				PROJECT TOTAL	97	543	213	394	330	110	10	2	2	18	6	5

(1) OFFSET TO STRUCTURES ARE AT THE CENTER OF STRUCTURES

STORM SEWER (CONTINUED)

CATEGORY	START STRUCTURE	STATION	(1) OFFSET	LOCATION	611.0642 INLET COVERS TYPE MS (EACH)	611.1005 CATCH BASINS 5-FT DIAMETER (EACH)	611.1006 CATCH BASINS 6-FT DIAMETER (EACH)	611.2004 MANHOLES 4-FT DIAMETER (EACH)	611.2005 MANHOLES 5-FT DIAMETER (EACH)	611.2006 MANHOLES 6-FT DIAMETER (EACH)	611.3003 INLETS 3-FT DIAMETER (EACH)	611.3004 INLETS 4-FT DIAMETER (EACH)	611.3220 INLETS 2X2-FT (EACH)	611.3230 INLETS 2X3-FT (EACH)	611.3901 INLETS MEDIAN 1 GRATE (EACH)	611.3902 INLETS MEDIAN 2 GRATE (EACH)	611.8115 ADJUSTING INLET COVERS (EACH)	633.5200 MARKERS CULVERT END (EACH)	SPV.0060.05 CONNECT TO EXISTING STORM SEWER (EACH)	SPV.0090.03 STORM SEWER PVC 8-INCH (LF)
0010	160.0	160+48.52 '35'	15.8	LT	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0010	160.2	160+48.66 '35'	2.4	LT	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
0010	161.1	161+25.00 '35'	1.0	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	161.0	161+25.00 '35'	9.2	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	163.0	163+25.00 '35'	1.0	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	163.1	163+25.00 '35'	12.9	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	163.2	163+25.00 '35'	69.4	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--
0010	167.1	166+39.49 '35'	57.2	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--
0010	167.0	167+44.56 '35'	17.8	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	EX 173.0	172+83.13 '35'	89.3	RT	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--
0010	EX 173.1	173+47.62 '35'	87.1	RT	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--
0010	174.0	174+22.09 '35'	39.9	RT	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
0010	ROOF DRAIN	198+46.59 '35'	57.2	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	15
0010	199.0	198+96.76 '35'	36.0	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
0010	200.3	200+49.79 '35'	18.5	RT	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
0010	200.0	200+50.00 '35'	13.3	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	200.2	200+69.00 '35'	40.2	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	200.1	200+87.00 '35'	37.8	RT	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
0010	201.0	200+99.00 '35'	36.9	RT	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
0010	ROOF DRAIN	201+35.05 '35'	45.2	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	36
0010	202.2	201+96.00 '35'	25.0	LT	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
0010	202.0	201+96.00 '35'	5.8	RT	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
0010	202.1	201+96.00 '35'	33.0	RT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	202.5	202+14.27 '35'	55.0	RT	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
0010	204.0	204+86.77 '35'	13.1	RT	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
0010	204.1	204+99.69 '35'	25.0	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	205.0	205+48.00 '35'	38.6	RT	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
0010	205.1	205+62.68 '35'	56.3	RT	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
0010	210.0	210+85.00 '35'	16.0	RT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	211.0	211+72.00 '35'	6.0	RT	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
0010	211.2	211+72.00 '35'	16.5	RT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	211.3	211+72.00 '35'	21.5	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	211.1	211+72.00 '35'	37.0	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--
0010	212.1	212+30.21 '35'	16.0	RT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	212.0	212+37.24 '35'	6.0	RT	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
0010	212.2	212+37.24 '35'	21.0	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	213.0	212+90.00 '35'	6.0	RT	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
0010	213.1	212+90.00 '35'	16.5	RT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	213.2	212+90.00 '35'	21.5	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	214.0	213+33.00 '35'	6.0	RT	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
0010	214.1	213+33.00 '35'	16.5	RT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	214.2	213+33.00 '35'	21.0	LT	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0010	214.3	213+33.00 '35'	54.6	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--
0010	8.2	7+96.00 'P'	17.0	RT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	8.0	8+07.50 'P'	16.7	RT	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
0010	8.1	8+07.50 'P'	16.8	LT	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
0010	EX 8.3	8+08.25 'P'	29.7	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0010	9.6	8+70.80 'P'	26.0	RT	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
0010	9.4	9+15.29 'P'	36.8	RT	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0010	9.3	9+22.60 'P'	89.2	LT	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--
0010	9.2	9+25.00 'P'	62.6	LT	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
0010	9.1	9+37.00 'P'	106.2	RT	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
0010	9.0	9+39.00 'P'	18.9	RT	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
0010	9.5	9+45.00 'P'	53.2	LT	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
0010	B3	8+18.94 'M'	34.1	RT	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--
0010	B2	8+25.20 'M'	23.4	RT	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
0010	B1	8+27.92 'M'	21.8	LT	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
				TOTAL 0010	3	3	1	1	4	5	2	6	2	19	1	2	2	6	2	51
				PROJECT TOTAL	3	3	1	1	4	5	2	6	2	19	1	2	2	6	2	51

(1) OFFSET TO STRUCTURES ARE AT THE CENTER OF STRUCTURES

CATEGORY	STATION	TO	STATION	LOCATION	614.2500 MGS THRIE BEAM TRANSITION LF	SPV.0060.06 SPECIAL (06. GUARDRAIL TERMINAL EAT TL-2) EACH
0010	8+06 'M'	-	8+70 'M'	RT	39.4	1
0010	8+09 'M'	-	8+73 'M'	LT	39.4	1
				TOTAL 0010	78.8	2
				PROJECT TOTAL	78.8	2

CATEGORY	STATION	TO	STATION	LOCATION	616.0204 FENCE CHAIN LINK 4-FT LF	616.0700.S FENCE SAFETY LF	REMARKS
0010	205+75	-	210+00	RT	--	325	ALONG SCHOOL PARKING LOT
0010	8+13 'M'	-	8+62 'M'	LT	50	--	MAIN ST
0010	8+10 'M'	-	8+27 'M'	RT	90	--	MAIN ST
				UNDISTRIBUTED	--	300	
				TOTAL 0010	140	625	
				PROJECT TOTAL	140	625	

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	REMARKS
0010	160+75	-	172+79	NB 35	2,060	2,060	--	1.30	56	--	60	35	
0010	160+75	-	172+79	SB 35	2,650	2,650	--	1.67	72	--	80	45	
0010	161+00	-	194+91	NB 35	3,680	3,680	--	2.32	--	--	100	91	TEMPORARY WIDENING
0010	173+21	-	199+44	SB 35	5,400	5,400	--	3.40	150	--	150	40	
0010	173+49	-	204+85	NB 35	2,330	2,330	--	1.46	63	--	70	35	
0010	200+15	-	221+76	SB 35	2,040	--	2,040	1.28	--	37	--	35	
0010	205+21	-	221+70	NB 35	2,200	--	2,200	1.38	--	40	--	37	
0010				PARENT STREET	350	--	350	0.22	--	7	--	6	SOUTHWEST QUADRANT
0010				WASTE SITE	5,560	--	--	3.50	--	--	150	--	
0010				UNDISTRIBUTED	1,400	900	230	1.00	20	10	40	20	
				TOTAL 0010	27,670	17,020	4,820	17.52	361	94	650	344	
0030	173+60	-	189+98	PATH	5,500	1,380	--	3.46	150	--	--	93	
0030	195+23	-	199+43	PATH	1,720	430	--	1.08	47	--	--	29	
				TOTAL 0030	7,220	1,810	0	4.55	197	0	0	122	
				PROJECT TOTAL	34,890	18,830	4,820	22.07	558	94	650	466	

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	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7560 TRACKING PADS EACH	628.7570 ROCK BAGS EACH
0010	160+77	-	222+31	PROJECT	6,180	6,180	--	--	--	--	--	--	--	30	--	140
				EXISTING INLETS	--	--	--	--	--	1	19	2	--	--	--	--
				PROPOSED INLETS	--	--	--	--	27	6	34	6	--	--	--	--
0010				UNDISTRIBUTED	500	500	6	3	2	2	8	--	200	10	4	20
				TOTAL 0010	6,680	6,680	6	3	29	9	61	8	200	40	4	160
				PROJECT TOTAL	6,680	6,680	6	3	29	9	61	8	200	40	4	160

NOTE: LOCATIONS FOR TEMPORARY DITCH CHECKS AND ROCK BAGS FOR SILT FENCE RELIEFS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

SIGNING ITEMS

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE (IN) W	X	H	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0622 POSTS WOOD 4X6-INCH X 22-FT EACH	634.0812 POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SIGN MOUNTED ON SAME POST AS	REMARKS
0010	1-01	R4-7	24	X	30	--	--	--	--	--	5.00	--	--	1-02, 1-03	KEEP RIGHT; BANDED ON POLE
0010	1-02	R6-3	30	X	24	--	--	--	--	--	5.00	--	--	1-01, 1-03	DIVIDED HIGHWAY CROSSING SING AND INTERSECTION; BANDED ON POLE
0010	1-03	R1-1F	30	X	30	--	--	--	--	--	--	5.18	--	1-01, 1-02	STOP (FOLDING); BANDED TO POLE
0010	1-04	R5-1	30	X	30	--	--	--	--	--	6.25	--	--	1-05	DO NOT ENTER
0010	1-05	J2-2	48	X	57	--	--	1	--	--	19.00	--	--	1-04	ROUTE TURN ASSEMBLY (2 HEADED ROUTE PANEL)
0010	1-06	R5-1A	36	X	24	--	--	--	--	--	6.00	--	--	1-07	WRONG WAY
0010	1-07	D1-2	96	X	36	--	2	--	--	--	24.00	--	--	1-06	TWO DESTINATION (ARROW)
0010	1-08	J13-1	24	X	45	1	--	--	--	--	7.50	--	--	--	DIRECTIONAL WITHOUT CARDINAL (1 HEADED ROUTE PANEL)
0010	1-09	J4-2	48	X	36	1	--	--	--	--	12.00	--	--	--	JUNCTION OR END ASSEMBLY (2 HEADED PANEL)
0010	1-10	R2-1	24	X	30	1	--	--	--	--	5.00	--	--	--	SPEED LIMIT 45 MPH
0010	1-11	D1-1	78	X	24	2	--	--	--	--	13.00	--	--	--	ONE DESTINATION (ARROW)
0010	1-12	W3-3	36	X	36	1	--	--	--	--	--	--	9.00	--	SIGNAL AHEAD
0010	1-13	J2-3	72	X	57	--	2	--	--	--	28.50	--	--	--	ROUTE TURN ASSEMBLY (3 HEADED ROUTE PANEL)
0010	1-14	W6-2	36	X	36	1	--	--	--	--	--	--	9.00	1-15	DIVIDED HIGHWAY ENDS SYMBOL
0010	1-15	R5-1A	36	X	24	--	--	--	--	--	6.00	--	--	1-14	WRONG WAY
0010	1-16	W11-8	30	X	30	1	--	--	--	--	--	--	6.25	--	FIRE STATION TRUCK CROSSING SYMBOL
0010	1-17	W6-3	36	X	36	1	--	--	--	--	--	--	9.00	1-18	TWO -WAY TRAFFIC SYMBOL
0010	1-18	R5-1	30	X	30	--	--	--	--	--	6.25	--	--	1-17	DO NOT ENTER
0010	1-19	W5-54	18	X	18	--	--	--	--	--	--	--	2.25	1-20	CLEARANCE MARKER WITH YELLOW TYPE F SHEETING
0010	1-20	R4-7	24	X	30	1	--	--	--	--	5.00	--	--	1-19	KEEP RIGHT
0010	1-21	J1-3	72	X	48	--	2	--	--	--	24.00	--	--	--	REASSURANCE ASSEMBLY (3 HEADED ROUTE PANEL)
0010	1-22	R1-1	30	X	30	1	--	--	--	--	5.18	--	--	--	STOP
0010	2-01	R1-1	30	X	30	1	--	--	--	--	5.18	--	--	--	STOP
0010	2-02	R1-1	30	X	30	1	--	--	--	--	5.18	--	--	--	STOP
0010	2-03	W6-1	36	X	36	1	--	--	--	--	--	--	9.00	--	DIVIDED HIGHWAY AHEAD
0010	2-04	W3-5	36	X	36	1	--	--	--	--	--	--	5.00	--	SPEED LIMIT 25 AHEAD [ARROW]
0010	3-01	J1-1	24	X	39	1	--	--	--	--	6.50	--	--	--	JUNCTION OR END ASSEMBLY
0010	3-02	R1-1	30	X	30	1	--	--	--	--	5.18	--	--	--	STOP
0010	3-03	J2-3	72	X	57	--	2	--	--	--	28.50		--	--	ROUTE TURN ASSEMBLY (3 HEADED ROUTE PANEL)
0010	3-04	R2-1	24	X	30	1	--	--	--	--	5.00	--	--	--	SPEED LIMIT 45 MPH
0010	3-05	R2-1	24	X	30	1	--	--	--	--	5.00	--	--	--	SPEED LIMIT 25 MPH
0010	3-06	R7-1D	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - DOUBLE ARROW
0010	3-07	R7-1D	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - DOUBLE ARROW
0010	3-08	D1-2	60	X	30	--	2	--	--	--	12.50	--	--	--	TWO DESTINATION (ARROW)
0010	3-09	R7-1D	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - DOUBLE ARROW
0010	3-10	R3-8LAR	54	X	30	--	2	--	--	--	11.25	--	--	--	LANE CONTROL
0010	3-11	R7-1D	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - DOUBLE ARROW
0010	3-12	R7-1D	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - DOUBLE ARROW
0010	3-13	J4-2	48	X	36	--	1	--	--	--	12.00	--	--	--	JUNCTION OR END ASSEMBLY (2 HEADED PANEL)
0010	3-14	J2-1	24	X	57	--	1	--	--	--	9.50	--	--	--	ROUTE TURN ASSEMBLY (1 HEAD PANEL)
0010	3-15	R2-1	24	X	30	--	--	--	--	--	5.00	--	--	3-16	SPEED LIMIT 25 MPH
0010	3-16	R7-1L	18	X	24	1	--	--	--	--	3.00	--	--	3-15	NO PARKING ANY TIME - LEFT ARROW
0010	3-17	R3-4	24	X	24	--	--	--	--	--	4.00	--	--	--	NO U-TURNS SYMBOL; MOUNTED ON POLE
0010	3-18	R1-2	36	X	31	1	--	--	--	--	3.88	--	--	--	YIELD
0010	3-19	W12-1D	24	X	24	--	--	--	--	1	--	--	4.00	--	DOUBLE DOWN ARROWS
0010	3-20	R1-1F	30	X	30	--	--	--	--	--	--	5.18	--	--	STOP (FOLDING); BANDED ON POLE
0010	3-21	R1-1F	30	X	30	--	--	--	--	--	--	5.18	--	--	STOP (FOLDING); BANDED ON POLE
0010	3-22	R3-4	24	X	24	--	--	--	--	--	4.00	--	--		NO U-TURNS SYMBOL; MOUNTED ON POLE
0010	3-23	R5-1	30	X	30	1	--	--	--	--	6.25	--	--	--	DO NOT ENTER
0010	3-24	R6-2L	24	X	30	--	--	--	--	--	5.00	--	--	--	ONE WAY LEFT ARROW; BANDED ON POLE
0010	3-25	R2-1	24	X	30	1	--	--	--	--	5.00	--	--	--	SPEED LIMIT 25 MPH
0010	3-26	J3-3	72	X	57	--	2	--	--	--	28.50	--	--	--	DIRECTIONAL ASSEMBLY (3 HEADED PANEL)
		SUBTOTAL 0010				28	16	1	0	1	363.10	15.54	53.50		

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE (IN) W	X	H	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0622 POSTS WOOD 4X6-INCH X 22-FT EACH	634.0812 POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SIGN MOUNTED ON SAME POST AS	REMARKS
0010	3-27	R1-1F	30	X	30	--	--	--	--	--	--	5.18	--	--	STOP (FOLDING); BANDED ON POLE
0010	3-28	R1-1F	30	X	30	--	--	--	--	--	--	5.18	--	--	STOP (FOLDING); BANDED ON POLE
0010	3-29	W12-1D	24	X	24	--	--	--	--	1	--	--	4.00	--	DOUBLE DOWN ARROWS
0010	3-30	R7-1L	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - LEFT ARROW
0010	3-31	R1-1F	30	X	30	--	--	--	--	--	--	5.18	--	--	STOP (FOLDING); BANDED ON TO POLE
0010	3-32	M1-94S	18	X	78	--	--	--	--	--	9.75	--	--	--	OVERHEAD STREET NAME WITH SHIELD; BANDED ON POLE
0010	4-01	WO5-52L	12	X	36	1	--	--	--	--	--	--	3.00	--	CLEARANCE STRIPER DOWN RIGHT (TIGER BOARD)
0010	4-02	J3-3	72	X	57	--	--	2	--	--	28.50	--	--	--	DIRECTIONAL ASSEMBLY (3 HEADED PANEL)
0010	4-03	WO5-52R	12	X	36	1	--	--	--	--	--	--	3.00	--	CLEARANCE STRIPER DOWN LEFT (TIGER BOARD)
0010	4-04	W3-3	36	X	36	--	1	--	--	--	--	--	9.00	--	SIGNAL AHEAD
0010	4-05	JH-1	24	X	45	1	--	--	--	--	7.50	--	--	--	HOSPITAL ROUTE ASSEMBLY
0010	4-06	J4-1	24	X	36	1	--	--	--	--	6.00	--	--	--	JUNCTION OR END ASSEMBLY
0010	4-07	S1-1	36	X	36	--	1	--	--	--	--	--	6.75	4-08, 4-09	SCHOOL ADVANCE
0010	4-08	R2-6P	24	X	18	--	--	--	--	--	3.00	--	--	4-07, 4-09	FINES HIGHER PLAQUE
0010	4-09	S16-9P	30	X	18	--	--	--	--	--	--	--	3.75	4-07, 4-08	AHEAD PLAQUE (FLOURESCENT YELLOW GREEN)
0010	4-10	R7-1L	18	X	24	1	--	--	--	--	3.00	--	--	4-11	NO PARKING ANY TIME - LEFT ARROW
0010	4-11	R2-1	24	X	30	--	--	--	--	--	5.00	--	--	4-10	SPEED LIMIT 30 MPH
0010	4-12	S4-51	24	X	48	1	--	--	--	--	--	--	8.00	--	SCHOOL SPEED LIMIT
0010	4-13	D1-1	96	X	15	2	--	--	--	--	10.00	--	--	--	ONE DESTINATION (ARROW)
0010	4-14	S5-2	24	X	30	--	--	--	--	--	5.00	--	--	--	END SCHOOL ZONE
0010	4-15	R4-7	24	X	30	1	--	--	--	--	5.00	--	--	--	KEEP RIGHT
0010	4-16	R7-1D	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - DOUBLE ARROW
0010	4-17	JV2-2	48	X	117	--	--	--	2	--	39.00	--	--	--	TRAILBLAZER ADVANCE TURN WITH CARDINAL
0010	4-18	W12-1D	24	X	24	--	--	--	--	1	--	--	4.00	--	DOUBLE DOWN ARROWS
0010	4-19	R7-1D	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - DOUBLE ARROW
0010	4-20	R3-8LAR	54	X	30	2	--	--	--	--	11.25	--	--	--	LANE CONTROL
0010	4-21	R7-1D	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - DOUBLE ARROW
0010	4-22	W3-3	36	X	36	1	--	--	--	--	--	--	9.00	--	SIGNAL AHEAD
0010	4-23	S1-1	36	X	36	--	--	--	--	--	--	--	6.75	4-24	SCHOOL ADVANCE
0010	4-24	S16-7L	30	X	18	--	--	--	--	--	--	--	3.75	4-23	LEFT DIAGONAL DOWNWARD POINTING ARROW (FLUORESCENT)
0010	4-25	S1-1	36	X	36	--	--	--	--	--	--	--	6.75	4-26	SCHOOL ADVANCE
0010	4-26	S16-7R	30	X	18	--	--	--	--	--	--	--	3.75	4-25	RIGHT DIAGONAL DOWNWARD POINTING ARROW (FLUORESCENT)
0010	4-27	S1-1	36	X	36	--	--	--	--	--	--	--	6.75	4-28	SCHOOL ADVANCE
0010	4-28	S16-7R	30	X	18	--	--	--	--	--	--	--	3.75	4-27	RIGHT DIAGONAL DOWNWARD POINTING ARROW (FLUORESCENT)
0010	4-29	S1-1	36	X	36	--	--	--	--	--	--	--	6.75	4-30	SCHOOL ADVANCE; MOUNTED ON POLE
0010	4-30	S16-7L	30	X	18	--	--	--	--	--	--	--	3.75	4-29	LEFT DIAGONAL DOWNWARD POINTING ARROW (FLUORESCENT)
0010	4-31	R7-1L	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - LEFT ARROW
0010	4-32	J1-1	24	X	39	1	--	--	--	--	6.00	--	--	--	JUNCTION OR END ASSEMBLY
0010	4-33	R7-1R	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - RIGHT ARROW
0010	4-34	R1-1	30	X	30	1	--	--	--	--	5.18	--	--	--	STOP
0010	4-35	R2-1	24	X	30	--	1	--	--	--	5.00	--	--	4-36	SPEED LIMIT 30 MPH
0010	4-36	S5-2	24	X	30	--	--	--	--	--	5.00	--	--	4-35	END SCHOOL ZONE
0010	4-37	S4-51	24	X	48	1	--	--	--	--	--	--	8.00	--	SCHOOL SPEED LIMIT
0010	5-01	S1-1	36	X	36	--	1	--	--	--	--	--	6.75	5-02, 5-03	SCHOOL ADVANCE
0010	5-02	R2-6P	24	X	18	--	--	--	--	--	3.00	--	--	5-01, 5-03	FINES HIGHER PLAQUE
0010	5-03	S16-9P	30	X	18	--	--	--	--	--	--	--	3.75	5-01, 5-02	AHEAD PLAQUE (FLOURESCENT YELLOW GREEN)
0010	5-04	R7-1R	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - RIGHT ARROW
0010	5-05	R7-1D	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - DOUBLE ARROW
0010	5-06	R2-1	24	X	30	1	--	--	--	--	5.00	--	--	--	SPEED LIMIT 30 MPH
0010	5-07	R7-1L	18	X	24	1	--	--	--	--	3.00	--	--	--	NO PARKING ANY TIME - LEFT ARROW
0010	5-08	R1-1	30	X	30	1	--	--	--	--	5.18	--	--	--	STOP
		SUBTOTAL 0010				26	4	2	2	2	194.36	15.54	111.00		
		TOTAL 0010				54	20	3	2	3	557.46	31.08	164.50		
		PROJECT TOTAL				54	20	3	2	3	557.46	31.08	164.50		

3

REMOVING OR MOVING SIGNING ITEMS

CATEGORY	STATION	LOCATION	EXISTING ROADWAY	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	160+54	LT	STH 35	1	1	--	--	SIGN ON EXISTING TRAFFIC SIGNAL
0010	160+62	RT	STH 35	1	--	--	1	
0010	161+68	LT	STH 35	--	2	1	--	
0010	163+54	LT	STH 35	--	1	1	--	
0010	163+56	LT	STH 35	--	2	2	--	
0010	163+58	RT	STH 35	--	1	1	--	
0010	164+56	LT	STH 35	--	1	2	--	
0010	164+60	RT	STH 35	--	1	1	--	
0010	165+61	LT	STH 35	--	1	1	--	
0010	166+57	LT	STH 35	--	1	2	--	
0010	166+65	RT	STH 35	--	2	1	--	
0010	167+90	RT	STH 35	--	1	1	--	
0010	169+10	LT	STH 35	--	1	1	--	
0010	169+11	RT	STH 35	--	2	1	--	
0010	172+03	LT	STH 35	--	1	2	--	
0010	172+69	LT	STH 35	1	1	--	1	
0010	173+34	RT	STH 35	--	1	1	--	
0010	173+53	LT	STH 35	1	--	--	1	
0010	173+85	RT	STH 35	--	1	1	--	
0010	175+27	LT	STH 35	--	1	1	--	
0010	180+90	LT	STH 35	--	1	1	--	
0010	185+93	RT	STH 35	--	1	1	--	
0010	188+78	RT	STH 35	--	1	1	--	
0010	190+70	RT	STH 35	--	1	1	--	
0010	192+55	RT	STH 35	--	2	3	--	
0010	193+56	LT	STH 35	--	1	1	--	
0010	193+68	RT	STH 35	--	1	1	--	
0010	194+04	LT	STH 35	--	1	1	--	
0010	194+08	RT	STH 35	--	1	1	--	
0010	195+68	LT	STH 35	--	1	1	--	
0010	196+26	RT	STH 35	--	1	2	--	
0010	197+02	RT	STH 35	--	1	1	--	
0010	197+14	LT	STH 35	--	1	1	--	
0010	197+68	RT	STH 35	--	1	1	--	
0010	197+82	LT	STH 35	--	1	1	--	
0010	198+02	LT	STH 35	--	1	1	--	
0010	198+05	RT	STH 35	--	1	1	--	
0010	198+77	LT	STH 35	--	1	1	--	
0010	198+88	LT	STH 35	--	1	--	--	SIGN ON EXISTING TRAFFIC SIGNAL
0010	199+13	RT	STH 35	--	1	--	--	SIGN ON EXISTING TRAFFIC SIGNAL
0010	199+68	LT	STH 35	--	1	--	--	SIGN ON EXISTING TRAFFIC SIGNAL
0010	8+59 'P'	RT	PARENT ST	--	1	1	--	
			SUBTOTAL 0010	4	45	42	3	

REMOVING OR MOVING SIGNING ITEMS (CONTINUED)

CATEGORY	STATION	LOCATION	EXISTING ROADWAY	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	9+05 'P'	RT	PARENT ST	--	1	--	--	SIGN ON EXISTING TRAFFIC SIGNAL
0010	8+21 'M'	RT	MAIN ST	--	1	1	--	
0010	8+25 'M'	LT	MAIN ST	--	1	1	--	
0010	8+67 'M'	LT	MAIN ST	--	1	--	--	SIGN ON EXISTING TRAFFIC SIGNAL
0010	8+72 'M'	RT	MAIN ST	--	1	1	--	
0010	8+75 'M'	RT	MAIN ST	--	1	1	--	
0010	8+80 'M'	RT	MAIN ST	--	1	1	--	
0010	9+00 'M'	LT	MAIN ST	--	1	1	--	
0010	9+03 'M'	RT	MAIN ST	--	1	1	--	
0010	9+22 'M'	LT	MAIN ST	--	1	--	--	SIGN ON EXISTING TRAFFIC SIGNAL
0010	9+23 'M'	RT	MAIN ST	--	1	--	--	SIGN ON EXISTING TRAFFIC SIGNAL
0010	9+45 'M'	LT	MAIN ST	--	1	--	--	SIGN ON EXISTING TRAFFIC SIGNAL
0010	200+59	LT	STH 35	--	1	--	--	SIGN ON EXISTING TRAFFIC SIGNAL
0010	200+71	RT	STH 35	--	1	--	--	SIGN ON EXISTING TRAFFIC SIGNAL
0010	200+74	LT	STH 35	--	1	1	--	
0010	201+00	LT	STH 35	--	1	2	--	
0010	201+40	RT	STH 35	--	1	1	--	
0010	201+79	LT	STH 35	--	1	1	--	
0010	202+00	RT	STH 35	--	1	1	--	
0010	202+68	RT	STH 35	--	1	1	--	
0010	202+84	LT	STH 35	--	1	1	--	
0010	203+27	LT	STH 35	--	1	2	--	
0010	203+41	RT	STH 35	--	1	1	--	
0010	204+99	LT	STH 35	--	1	1	--	
0010	205+11	LT	STH 35	--	1	2	--	
0010	205+89	RT	STH 35	--	1	1	--	
0010	206+76	LT	STH 35	--	1	1	--	
0010	206+78	LT	STH 35	--	1	1	--	
0010	207+10	LT	STH 35	--	1	1	--	
0010	207+72	LT	STH 35	--	1	1	--	
0010	207+76	RT	STH 35	--	1	1	--	
0010	209+36	RT	STH 35	--	1	1	--	
0010	209+43	LT	STH 35	--	1	1	--	
0010	210+14	LT	STH 35	--	1	1	--	
0010	211+37	RT	STH 35	1	1	1	1	
0010	211+51	RT	STH 35	--	1	1	--	
0010	212+27	LT	STH 35	--	1	1	--	
0010	213+62	LT	STH 35	--	1	1	--	
0010	219+09	LT	STH 35	--	1	1	--	
0010	221+66	LT	STH 35	1	1	1	1	
			SUBTOTAL 0010	2	40	36	2	
			TOTAL 0010	6	85	78	5	
			PROJECT TOTAL	6	85	78	5	

			643.0300		643.0420		643.0705		643.0715		643.0900		643.1050		643.5000	
			TRAFFIC CONTROL DRUMS		TRAFFIC CONTROL BARRICADES TYPE III		TRAFFIC CONTROL WARNING LIGHTS TYPE A		TRAFFIC CONTROL WARNING LIGHTS TYPE C		TRAFFIC CONTROL SIGNS		TRAFFIC CONTROL SIGNS PCMS		TRAFFIC CONTROL	
CATEGORY	LOCATION	DURATION DAYS	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	REMARKS
0010	PROJECT	7	15	105	--	--	--	--	--	--	--	--	3	21	--	7 DAY ADVANCED CONSTRUCTION NOTICE
0010	PROJECT	190	--	--	18	3,420	36	6,840	--	--	59	11,210	--	--	1	ADVANCED WARNING & WIDTH RESTRICTION SIGNS
0010	STAGE 1	20	120	2,400	7	140	14	280	3	60	9	180	--	--	--	
0010	STAGE 2	65	100	6,500	12	780	24	1,560	11	715	19	1,235	--	--	--	
0010	STAGE 3	65	140	9,100	12	780	24	1,560	3	195	24	1,560	--	--	--	
0010	STAGE 4	35	120	4,200	3	105	6	210	--	--	4	140	--	--	--	
0010	DETOUR	160	--	--	2	320	4	640	--	--	116	18,560	--	--	--	
0010	PROJECT	130	--	--	--	--	--	--	--	--	40	5,200	--	--	--	TEMPORARY PEDESTRIAN ACCOMMODATIONS
0010	UNDISTRIBUTED		--	2,220	--	555	--	1,109	--	97	--	1,650	--	15	--	
	TOTAL 0010			24,525		6,100		12,199		1,067		39,735		36	1	
	PROJECT TOTAL			24,525		6,100		12,199		1,067		39,735		36	1	

			643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II	
CATEGORY	LOCATION	NO. CYCLES	EACH	REMARKS
0010	BUS 64/MAIN STREET	1	1	STH 35 NORTH
0010	BUS 64/MAIN STREET	1	1	STH 35 SOUTH
	TOTAL 0010		2	

							644.1410	644.1440	644.1601		644.1810	SPV.0060.07
							TEMPORARY PEDESTRIAN SURFACE ASPHALT	TEMPORARY PEDESTRIAN SURFACE MATTING	TEMPORARY PEDESTRIAN CURB RAMP		TEMPORARY PEDESTRIAN BARRICADE	SPECIAL (07. GRADING AND SHAPING TEMPORARY PATH, MAIN STREET TO LASER DRIVE)
CATEGORY	STATION	TO	STATION	LOCATION	DAYS	SF	SF	EACH	DAY	LF	EACH
0010				PROJECT		--	--	--	--	--	1
0010	200+58	-	204+70	STH 35 TO KWIK TRIP ENTRANCE		2,500	--	--	--	440	--
0010	205+00	-	211+25	KWIK TRIP ENTRANCE TO SCHACHTNER ST	170	3,350	270	2	340	570	--
0010	211+25	-	221+70	SCHACHTNER ST TO EOP	130	2,380	230	2	260	990	--
0010				MAIN ST	130	--	350	2	260	--	--
0010				CHURCH HILL RD	130	--	440	1	130	--	--
0010				KWIK TRIP ENTRANCE	130	--	220	2	260	--	--
0010				SCHACHTNER ST	130	--	--	3	390	--	--
				TOTAL 0010		8,230	1,510		1,640	2,000	1
				PROJECT TOTAL		8,230	1,510		1,640	2,000	1

CATEGORY	STATION	TO	STATION	LOCATION	643.3105 TEMPORARY MARKING LINE PAINT 4-INCH (WHITE) LF	643.3105 TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW) LF	643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) LF	643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	643.3960 TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH LF	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9200 MARKING REMOVAL LINE WIDE LF
0010	160+00	-	173+00	STAGE 2	2,300	2,300	20	20	20	50	1,125	200
0010	173+00	-	195+50	STAGE 2	--	--	--	--	20	--	2,100	230
0010	160+00	-	173+00	STAGE 3	--	--	1,125	1,125	50	50	--	--
0010	173+00	-	195+25	STAGE 3	--	--	--	--	20	50	--	--
0010	160+00	-	173+00	STAGE 4	--	--	--	--	20	--	--	--
0010	173+00	-	195+25	STAGE 4	--	--	200	--	20	--	--	--
0010				UNDISTRIBUTED	200	200	200	200	50	100	400	50
				TOTAL 0010	5,000		2,890		200	250	3,625	480
				PROJECT TOTAL	5,000		2,890		200	250	3,625	480

CATEGORY	STATION	TO	STATION	LOCATION	648.0100 LOCATING NO-PASSING ZONES MI
0010	160+27	-	222+31	STH 35	1.131
				TOTAL 0010	1.131
				PROJECT TOTAL	1.131

CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH LF	646.3020 MARKING LINE EPOXY 8-INCH LF	646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.6220 MARKING YIELD LINE EPOXY 18-INCH EACH	646.6464 COLD WEATHER MARKING EPOXY 4-INCH LF	646.6468 COLD WEATHER MARKING EPOXY 8-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
0010	160+24	-	173+07	STH 35	3,180	2,360	--	1,040	8	3	39	--	--	--	100	--	--	20	2
0010	173+07	-	199+28	STH 35	5,110	4,860	--	980	8	2	40	--	--	--	--	--	--	-	--
0010	200+29	-	221+43	STH 35	4,800	--	1,180	--	9	2	39	--	--	--	190	230	100	10	1
0010	8+17 'M'	-	9+75 'M'	MAIN ST	280	--	96	--	3	--	42	--	--	--	--	150	--	--	--
0010	7+88 'P'	-	6+90 'P'	PARENT ST	370	--	160	--	3	--	24	31	--	--	--	--	--	--	--
0010				180TH AVE	92	--	--	--	--	--	18	--	--	--	--	--	--	--	--
0010				LAGRANDUER RD	150	--	65	--	--	--	37	--	150	65	--	--	--	--	--
0010				KWIK TRIP ENTRANCE	--	--	--	--	--	--	--	--	--	--	--	78	--	--	--
0010				SCHACHTNER ST	--	--	--	--	--	--	--	--	--	--	--	56	--	--	--
0010				UNDISTRIBUTED	--	--	--	--	--	--	--	--	200	200	--	--	--	--	--
				TOTAL	13,982														
				TOTAL 0010	13,982	7,220	1,501	2,020	31	7	239	31	350	265	290	514	100	30	3
				PROJECT TOTAL	13,982	7,220	1,501	2,020	31	7	239	31	350	265	290	514	100	30	3

CATEGORY	STATION	TO	STATION	LOCATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.8501.01 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) (01. 8060-00-70) EACH	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9500.01 CONSTRUCTION STAKING SIDEWALK (PROJECT) (01. 8060-00-70) EACH	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 8060-00-70) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010				PROJECT	55	--	--	20	7	--	--	--	1	1	--
0010	160+27	-	221+43	STH 35	--	6,116	--	--	--	6,116	--	2	--	--	6,116
0010	160+77	-	173+14	STH 35	--	1,237	--	--	--	1,237	--	--	--	--	1,237
0010	221+43	-	222+31	STH 35	--	88	88	91	--	--	--	--	--	--	88
0010	19+06 'TH'	-	19+81 'TH'	180 TH AVE	--	75	--	10	--	75	--	--	--	--	75
0010	20+30 'L'	-	21+10 'L'	LAGRANDUER RD	--	80	--	30	--	80	--	--	--	--	80
0010	7+89 'P'	-	9+61 'P'	PARENT ST	--	172	82	166	--	172	--	--	--	--	172
0010	8+11 'M'	-	9+53 'M'	MAIN ST	--	142	--	--	--	142	--	2	--	--	142
0010	10+10 'KT'	-	10+53 'KT'	KWIK TRIP ENTRANCE	--	43	--	--	--	43	--	2	--	--	43
0010	10+13 'S'	-	10+45 'S'	SCHACHTNER ST	--	32	--	24	--	32	--	2	--	--	32
				TOTAL 0010	55	7,985	170	341	7	7,897	0	8	1	1	7,985
0030	201+00	-	222+00	RT	--	--	--	--	--	--	--	5	--	--	--
				TOTAL 0030	0	0	0	0	0	0	0	5	0	0	0
0040					--	--	--	--	--	--	1	--	--	--	--
				TOTAL 0040	0	0	0	0	0	0	1	0	0	0	0
				PROJECT TOTAL	55	7,985	170	341	7	7,897	1	13	1	1	7,985

CATEGORY	STATION	TO	STATION	LOCATION	* 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0605 CONDUIT SPECIAL 2-INCH LF	653.0135 PULL BOXES STEEL 24X36-INCH EACH	* 653.0140 PULL BOXES STEEL 24X42-INCH EACH	* 653.0905 REMOVING PULL BOXES EACH	674.0300 REMOVE CABLE LF	678.0012 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 12-CT LF
0010	160+65	-	199+30	PROJECT	2,580	1,360	15	5	21	4,362	4,328
				TOTAL 0010	2,580	1,360	15	5	21	4,362	4,328

* ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
0010	160+00	-	173+00	STAGE 1	1,500	106	
0010	173+00	-	195+50	STAGE 1	50	176	
0010	160+00	-	173+00	STAGE 2	2,100	24	
0010	173+00	-	195+50	STAGE 2	10	2,250	
0010	160+00	-	173+00	STAGE 3	1,220	74	
0010	173+00	-	195+50	STAGE 3	100	48	
0010	160+00	-	173+00	STAGE 4	1,220	--	
0010	173+00	-	195+50	STAGE 4	2,250	--	
0010			222+31	STH 35	48	--	
0010				180 TH AVE	30	3	
0010				LAGRANDUER RD	58	5	
0010				PARENT ST	32	5	
0010				MAIN ST	--	47	
0010			205+00	KWIK TRIP ENTRANCE	--	36	
0010				SCHACHTNER ST	78	5	
0010			175+53	RT	24	--	COMMERCIAL ENTRANCE
0010			176+66	RT	24	--	COMMERCIAL ENTRANCE
0010			184+67	RT	38	--	COMMERCIAL ENTRANCE
0010			184+82	LT	14	--	PRIVATE ENTRANCE
0010			190+17	RT	35	--	COMMERCIAL ENTRANCE
0010			195+07	RT	38	--	COMMERCIAL ENTRANCE
0010			203+90	LT	--	19	PRIVATE ENTRANCE
0010			204+75	LT	11	--	PRIVATE ENTRANCE
0010	205+77	-	207+00	RT	130	--	PARKING LOT
0010			207+19	RT	56	--	PRIVATE ENTRANCE
0010			207+46	LT	37	5	PRIVATE ENTRANCE
0010	208+30	-	208+65	LT	--	35	CHURCH ENTRANCE
0010			208+51	RT	45	--	PRIVATE ENTRANCE
0010			209+02	RT	15	--	PRIVATE ENTRANCE
0010			211+38	LT	12	--	PRIVATE ENTRANCE
0010			213+77	RT	18	--	PRIVATE ENTRANCE
0010			215+48	RT	10	3	PRIVATE ENTRANCE
0010			216+60	RT	15	--	PRIVATE ENTRANCE
0010			217+70	RT	11	--	PRIVATE ENTRANCE
0010			220+38	LT	25	--	COMMERCIAL ENTRANCE
0010			221+90	LT	23	--	COMMERCIAL ENTRANCE
0010			8+55 'P'	LT	47	--	COMMERCIAL ENTRANCE
0010				SIDEWALK	41	40	
0010				UNDISTRIBUTED	500	300	
				TOTAL 0010	9,865	3,181	
				PROJECT TOTAL	9,865	3,181	

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.08 SPECIAL (08. FLASHING SPEED SIGN REMOVE AND SALVAGE) EACH	SPV.0090.04 SPECIAL (04. REMOVE AND SALVAGE ROADWAY MARKERS AND CURB) LF	REMARKS
0010	204+27	-	205+87	STH 35	--	330	MEDIAN
0010			220+63	LT	1	--	
				TOTAL 0010	1	330	
				PROJECT TOTAL	1	330	

LIGHTING EQUIPMENT

SIG. BASE NO.	(CAT. 0040) SPV.0060.01 PATH LIGHTING ASSEMBLY EACH	(CAT. 0010) SPV.0060.02 ROAD LIGHTING ASSEMBLY EACH
L-0001	1	
L-0002	1	
L-0003	1	
L-0004	1	
L-0005	1	
L-0006	1	
L-0007	1	
L-0008	1	
L-0009	1	
L-0010	1	
L-0011	1	
L-0012	1	
L-0013	1	
L-0014	1	
L-0015	1	
L-0016	1	
L-0017	1	
L-0018	1	
L-0019	1	
L-0020		1
L-0021		1
L-0022		1
L-0023		1
L-0024		1
L-0025		1
L-0026		1
L-0027		1

LIGHTING EQUIPMENT (CONTINUED)

SIG. BASE NO.	(CAT. 0040) SPV.0060.01 PATH LIGHTING ASSEMBLY EACH	(CAT. 0010) SPV.0060.02 ROAD LIGHTING ASSEMBLY EACH
L-0028	1	
L-0029	1	
L-0030	1	
L-0031	1	
L-0032	1	
L-0033	1	
L-0034	1	
L-0035	1	
L-0036	1	
L-0037	1	
L-0038	1	
L-0039	1	
L-0040	1	
L-0041		1
L-0042		1
L-0043		1
L-0044		1
L-0045		1
L-0046		1
L-0047		1
L-0048		1
L-0049		1
TOTAL	32	17

PULL BOXES

CAT. #	PULL BOX NO.	** LOCATION	* 653.0164 PULL BOXES NON-CONDUCTIVE 24"x42" EACH
0040	PB1	205+32, 31' RT	1
0040	PB2	204+69, 32' RT	1
0040	PB3	200+66, 70' RT	1
0040	PB4	195+29, 83' RT	1
0040	PB5	194+79, 84' RT	1
0040	PB6	190+40, 89' RT	1
0040	PB7	189+29, 77' RT	1
0010	PB8	186+95, 94' RT	1
0010	PB9	186+95, 20' LT	1
0040	PB10	186+55, 62' RT	1
0040	PB11	184+92, 56' RT	1
0040	PB12	184+40, 57' RT	1
0040	PB13	181+16, 59' RT	1
0040	PB14	176+85, 55' RT	1
0040	PB15	176+47, 55' RT	1
0040	PB16	175+73, 62' RT	1
0040	PB17	175+37, 62' RT	1
0010	PB18	183+94, 22' LT	1
0010	PB19	183+18, 22' LT	1
		CAT. 0010 TOTAL	4
		CAT. 0040 TOTAL	15
		TOTAL	19

TRAFFIC LIGHTING CABINET

** LOCATION	(CAT. 0010) SPV.0060.47 LIGHTING CONTROL CABINET SPECIAL EACH
186+73, 61' RT	1
TOTAL	1

CONCRETE BASES

SIGNAL BASE NO.	** LOCATION	(CAT. 0010) 654.0230 CONTROL CABINET BASES TYPE L30 EACH
LC1	186+73, 61' RT	1
	TOTAL	1

ELECTRICAL SERVICE

CABINET NO.	** LOCATION	(CAT. 0010) 656.0201.02 ELECTRICAL SERVICE METER BREAKER PEDESTAL EACH
LC1	STH 35	1
	TOTAL	1

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

STH 35 LIGHTING

PAGE 1 OF 3

LIGHTING CONDUIT & ELECTRICAL WIRE

CAT. #	LOC.	TO	LOC.	LINEAR DISTANCE	NUMBER OF CONDUITS	* 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	* 652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0605 CONDUIT SPECIAL 2-INCH L.F.	IN CONDUIT RUN WIRE SLACK LF	IN CONDUIT RUN NUMBER OF WIRES (INCLUDING GROUND WIRE)	IN LIGHT POLE LENGTH OF WIRE IN POLE	IN LIGHT POLE NUMBER OF WIRES (INCLUDING GROUND WIRE)	IN LIGHT POLE LENGTH OF FESTOON WIRE IN POLE	IN LIGHT POLE NUMBER OF FESTOON RECEPTACLE WIRES (INCLUDING GROUND WIRE)	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG L.F.	655.0635 ELECTRICAL WIRE LIGHTING 2 AWG L.F.
0040	LC1		PB8	26	2	-	52	-	23	10					-	490	-
0040	PB8		PB7	316	1	316	-	-	30	5					-	1730	-
0040	PB7		PB6	46	2	92	-	-	30	10					-	760	-
0040	PB6		PB5	466	1	466	-	-	30	5					-	2480	-
0040	PB5		PB4	54	2	108	-	-	30	10					-	840	-
0040	PB4		PB3	403	1	403	-	-	30	5					-	2165	-
0040	PB3		L-0007	227	1	227	-	-	18	5	16	3			48	1225	-
0040	L-0007		L-0006	92	1	92	-	-	23	5	16	3			48	575	-
0040	L-0006		L-0005	85	1	85	-	-	6	5	16	3			48	455	-
0040	L-0005		PB2	12	1	12	-	-	18	5					-	150	-
0040	PB2		PB1	64	1	64	-	-	30	5					-	470	-
0040	PB1		L-0004	45	1	45	-	-	18	5	16	3			48	315	-
0040	L-0004		L-0003	108	1	108	-	-	6	5	16	3			48	570	-
0040	L-0003		L-0002	114	1	114	-	-	6	5	16	3			48	600	-
0040	L-0002		L-0001	107	1	107	-	-	6	3	16	3			48	339	-
0040	PB8		L-0019	44	1	44	-	-	18	5	16	3			48	310	-
0040	L-0019		L-0018	110	1	110	-	-	6	5	16	3			48	580	-
0040	L-0018		L-0017	110	1	110	-	-	6	5	16	3			48	580	-
0040	L-0017		PB7	52	1	52	-	-	18	5					-	350	-
0040	PB6		L-0016	13	1	13	-	-	18	5	16	3			48	155	-
0040	L-0016		L-0015	110	1	110	-	-	6	5	16	3			48	580	-
0040	L-0015		L-0014	110	1	110	-	-	6	5	16	3			48	580	-
0040	L-0014		L-0013	107	1	107	-	-	6	5	16	3			48	565	-
0040	L-0013		L-0012	113	1	113	-	-	6	5	16	3			48	595	-
0040	L-0012		PB5	11	1	11	-	-	18	5					-	145	-
0040	PB4		L-0011	47	1	47	-	-	18	5	16	3			48	325	-
0040	L-0011		L-0010	115	1	115	-	-	6	5	16	3			48	605	-
0040	L-0010		L-0009	103	1	103	-	-	6	5	16	3			48	545	-
0040	L-0009		L-0008	117	1	117	-	-	6	3	16	3			48	369	-
0010	LC1		PB8	26	1	-	26	-	23	14					-	392	294
0010	PB8		PB9	84	2	-	168	-	30	14					-	912	684
0010	PB9		L-0027	29	1	29	-	-	18	7	44	3	24	3	204	188	141
0010	L-0027		L-0026	143	1	143	-	-	6	7	44	3	24	3	204	596	447
0010	L-0026		L-0025	142	1	142	-	-	6	7	44	3	24	3	204	592	444
0010	L-0025		L-0024	143	1	143	-	-	6	7	44	3	24	3	204	596	447
0010	L-0024		L-0023	143	1	143	-	-	6	7	44	3	24	3	204	596	447

TABLE CONTINUED ON NEXT PAGE

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

STH 35 LIGHTING

PAGE 2 OF 3

LIGHTING CONDUIT & ELECTRICAL WIRE (CONTINUED)

CAT. #	LOC.	TO	LOC.	LINEAR DISTANCE	NUMBER OF CONDUITS	* 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	* 652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0605 CONDUIT SPECIAL 2-INCH L.F.	IN CONDUIT RUN: WIRE SLACK LF	IN CONDUIT RUN: NUMBER OF WIRES (INCLUDING GROUND WIRE)	IN LIGHT POLE: LENGTH OF WIRE IN POLE	IN LIGHT POLE: NUMBER OF WIRES (INCLUDING GROUND WIRE)	IN LIGHT POLE: LENGTH OF FESTOON WIRE IN POLE	IN LIGHT POLE: NUMBER OF FESTOON RECEPTACLE WIRES (INCLUDING GROUND WIRE)	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG L.F.	655.0635 ELECTRICAL WIRE LIGHTING 2 AWG L.F.
0010	L-0023		L-0022	142	1	142	-	-	6	7	44	3	24	3	204	592	444
0010	L-0022		L-0021	142	1	142	-	-	6	7	44	3	24	3	204	592	444
0010	L-0021		L-0020	143	1	143	-	-	6	5	44	3	24	3	204	298	447
0040	LC1		PB10	17	3	-	51	-	23	5					-	200	-
0040	PB10		L-0028	24	1	24	-	-	18	5	16	3			48	210	-
0040	L-0028		L-0029	107	1	107	-	-	6	5	16	3			48	565	-
0040	L-0029		PB11	37	1	37	-	-		5					-	275	-
0040	PB11		PB12	53	1	-	-	53	30	5					-	415	-
0040	PB12		L-0030	11	1	11	-	-	18	5	16	3			48	145	-
0040	L-0030		L-0031	106	1	106	-	-	6	5	16	3			48	560	-
0040	L-0031		L-0032	106	1	105	-	-	6	5	16	3			48	560	-
0040	L-0032		PB13	104	1	104	-	-	18	5					-	610	-
0040	PB13		L-0033	18	1	18	-	-	18	5	16	3			48	180	-
0040	PB13		L-0034	106	1	106	-	-	18	5	16	3			48	620	-
0040	L-0034		L-0035	106	1	106	-	-	6	5	16	3			48	560	-
0040	L-0035		L-0036	105	1	105	-	-	6	5	16	3			48	555	-
0040	L-0036		L-0037	106	1	106	-	-	6	5	16	3			48	560	-
0040	L-0037		PB14	11	1	11	-	-	18	5					-	145	-
0040	PB14		PB15	38	1	38	-	-	30	5					-	340	-
0040	PB15		L-0038	52	1	52	-	-	18	5	16	3			48	350	-
0040	L-0038		PB16	26	1	26	-	-	18	5					-	220	-
0040	PB16		PB17	37	1	-	-	37	30	5					-	335	-
0040	PB17		L-0039	55	1	55	-	-	18	5	16	3			48	365	-
0040	L-0039		L-0040	107	1	107	-	-	6	3	16	3			48	339	-
0010	PB9		L-0041	115	1	115	-	-	18	7	44	3	24	3	204	532	399
0010	L-0041		L-0042	150	1	150	-	-	6	7	44	3	24	3	204	624	468
0010	L-0042		PB18	34	1	34	-	-	18	7					-	208	156
0010	PB18		PB19	76	1	76	-	-		7					-	424	318
0010	PB19		L-0043	41	1	41	-	-	18	7	44	3	24	3	204	236	177
0010	L-0043		L-0044	150	1	150	-	-	6	7	44	3	24	3	204	624	468
0010	L-0044		L-0045	150	1	150	-	-	6	7	44	3	24	3	204	624	468
0010	L-0045		L-0046	150	1	150	-	-	6	7	44	3	24	3	204	624	468
0010	L-0046		L-0047	150	1	150	-	-	6	7	44	3	24	3	204	624	468
0010	L-0047		L-0048	150	1	150	-	-	6	7	44	3	24	3	204	624	468
0010	L-0048		L-0049	151	1	151	-	-	6	5	44	3	24	3	204	314	471
				CAT. 0010 TOTAL		2344	194	0							3468	10812	8568
				CAT. 0040 TOTAL		4625	103	90							1536	27557	0
				PROJECT TOTAL		6969	297	90							5004	38369	8568

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

STH 35 LIGHTING

PAGE 3 OF 3

3

REMOVE TRAFFIC SIGNALS

INTERSECTION	204.9060.S.01 REMOVING TRAFFIC SIGNALS EACH	204.9060.S.02 REMOVING TRAFFIC SIGNALS EACH
STH 35 & PARENT ST	1	--
STH 35 & CTH C	--	1
TOTAL	1	1

PULL BOXES AND COMMUNICATION VAULTS

INTERSECTION	NO.	** STATION	653.0140 PULL BOXES STEEL 24+42-INCH EACH	653.0154 PULL BOXES NON-CONDUCTIVE 24x36-INCH EACH	* 653.0164 PULL BOXES NON-CONDUCTIVE 24x42-INCH EACH
STH 35 & PARENT ST	PB1	199+33, 68' LT	--	--	1
	PB2	199+65, 48' LT	--	--	1
	PB3	9+51, 64' RT	--	--	1
	PB4	9+33, 47' RT	--	--	1
	PB5	8+33, 29' RT	--	1	--
	PB6	9+28, 43' LT	--	--	1
	PB7	200+75, 48' LT	--	--	1
	PB8	200+64, 18' RT	--	--	1
	PB9	200+67, 47' RT	--	--	1
	PB10	199+11, 32' RT	--	--	1
	PB11	197+35, 29' RT	--	1	--
	PB12	195+35, 27' RT	--	1	--
	PB13	199+07, 47' LT	--	--	1
STH 35 & CTH C	PB23	160+75, 22' LT	1	--	--
		TOTAL	1	3	10

REMOVING CONCRETE BASES

INTERSECTION	SIGNAL BASE NO.	STATION	204.0195 REMOVING CONCRETE BASES EACH
STH 35 & PARENT ST	CB1	199+17, 77' LT	1
	SB1	199+68, 42' LT	1
	SB2	9+74, 87' RT	1
	SB3	9+51, 57' RT	1
	SB4	9+29, 45' RT	1
	SB5	9+33, 04' LT	1
	SB6	9+54, 04' LT	1
	SB7	9+17, 49' LT	1
	SB8	200+71, 55' LT	1
	SB9	200+59, 19' LT	1
	SB10	200+86, 43' RT	1
	SB11	199+42, 53' RT	1
	SB12	199+27, 44' RT	1
	SB13	198+52, 44' RT	1
	SB14	196+63, 40' RT	1
	SB15	199+38, 06' LT	1
	SB16	199+07, 41' LT	1
	SB17	199+35, 58' LT	1
STH 35 & CTH C	SB11	160+55, 07' LT	1
	SB12	160+77, 37' RT	1
	TOTAL		20

REMOVING PULL BOXES

INTERSECTION	PULL BOX NO.	STATION	653.0905 REMOVING PULL BOXES EACH
STH 35 & PARENT ST	PB1	199+31, 78' LT	1
	PB2	199+70, 47' LT	1
	PB3	9+61, 70' RT	1
	PB4	8+46, 33' RT	1
	PB5	9+46, 04' LT	1
	PB6	9+34, 65' LT	1
	PB7	200+66, 22' LT	1
	PB8	199+43, 23' RT	1
	PB9	199+11, 53' RT	1
	PB10	198+47, 40' RT	1
	PB11	197+52, 41' RT	1
	PB12	199+07, 07' LT	1
	PB13	199+03, 41 LT	1
	PB14	199+84, 49' LT	1
	PB15	199+84, 54' LT	1
	PB16	199+95, 51' LT	1
	PB17	199+95, 56' LT	1
	PB18	8+47, 11' RT	1
	PB19	9+26, 08' RT	1
	PB20	200+62, 44' LT	1
	PB21	200+73, 06' LT	1
	PB22	200+64, 06' LT	1
	PB23	200+80, 06' RT	1
	PB24	200+74, 06' RT	1
	PB25	197+42, 12' RT	1
	PB26	199+16, 05' RT	1
STH 35 & CTH C	PB23	160+80, 07' LT	1
		TOTAL	27

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0050

TRAFFIC SIGNALS
STH 35

3

CONDUIT

INTERSECTION	LOC.	TO LOC.	* 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	* 652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
STH 35 & PARENT ST	CB1	PB1	--	81	--
	PB1	SB1	14	--	--
	PB1	PB2	--	74	--
	PB1	PB3	--	228	--
	PB2	SB2	9	--	--
	PB3	SB3	--	13	--
	PB3	SB4	12	--	--
	PB3	PB4	--	69	--
	PB4	SB5	9	--	--
	PB4	PB5	98	--	--
	PB4	PB6	--	184	--
	PB5	EXPB1	15		--
	PB6	SB6	--	19	--
	PB6	PB7	--	78	--
	PB7	SB7	12	--	--
	PB7	PB8	--	60	--
	PB7	PB9	--	188	--
	PB8	SB8	16	--	--
	PB8	SB9	16	--	--
	PB8	SB10	35	--	--
	PB9	SB11	--	5	--
	PB9	PB10	--	110	--
	PB10	SB12	28	--	--
	PB10	SB13	20	--	--
	PB10	PB11	180	--	--
	PB11	PB12	202	--	--
	PB10	PB13	--	158	--
	PB13	SB14	--	14	--
	PB13	CB1	--	78	--
STH 35 & CTH C	PB18	PB23	--	--	80
	PB18	PB24	--	--	198
	PB23	SB11	19	--	--
	PB24	SB12	--	12	--
		TOTAL	685	1371	278

CONCRETE BASES

INTERSECTION	SIGNAL BASE NO.	** STATION	* 654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0120 CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
STH 35 & PARENT ST	CB1	199+06, 73' LT	--	--	--	--	--	1
	SB1	199+37, 82' LT	--	--	1	--	--	--
	SB2	199+65, 44' LT	1	--	--	--	--	--
	SB3	9+62, 74' RT	--	--	--	--	1	--
	SB4	9+45, 54' RT	1	--	--	--	--	--
	SB5	9+27, 43' RT	--	1	--	--	--	--
	SB6	200+43, 93' LT	--	--	--	1	--	--
	SB7	200+65, 52' LT	--	1	--	--	--	--
	SB8	200+48, 19' LT	1	--	--	--	--	--
	SB9	200+50, 26' LT	1	--	--	--	--	--
	SB10	200+32, 32' LT	1	--	--	--	--	--
	SB11	200+71, 50' RT	--	--	--	--	1	--
	SB12	199+36, 46' RT	1	--	--	--	--	--
	SB13	199+31, 37' RT	--	1	--	--	--	--
	SB14	198+92, 47' LT	--	--	--	--	1	--
STH 35 & CTH C	SB11	160+56, 21' LT	1	-	-	-	-	-
	SB12	160+84, 39' RT	--	--	--	--	1	--
		TOTAL	7	3	1	1	4	1

INSTALL CONDUIT INTO EXISTING ITEM

INTERSECTION	LOC.	STATION	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH
STH 35 & PARENT ST	EXPB1	8+16, 15' RT	1
STH 35 & CTH C	PB18	160+81, 62' LT	1
	PB20	162+38, 67' LT	1
	PB22	164+62, 58' LT	1
	PB24	160+95, 36' RT	1
		TOTAL	5

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0050

TRAFFIC SIGNALS
STH 35

TRAFFIC DETECTOR LOOPS

INTERSECTION	LOOP NO.	HOME RUN PB	** LOCATION	SIZE (FT)	X	SIZE (FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	* 655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
STH 35 & PARENT ST	11	PB4	9+28, 06' RT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	130	180	398
	12	PB4	9+56, 06' RT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	130	180	398
	21	PB12	195+35, 06' RT	6	X	8	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	504	368
	22	PB11	197+35, 06' RT	6	X	6	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	301	272
	31	PB2	199+94, 64' LT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	110	78	338
	32	PB2	199+95, 36' LT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	110	78	338
	41	PB8	200+77, 06' LT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	346	260
	42	PB8	200+49, 06' LT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	346	230
	43	PB8	200+62, 34' LT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	346	260
	51	PB10	198+75, 06' LT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	152	121	464
	52	PB10	199+03, 06' LT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	124	121	380
	61	PB5	8+35, 11' RT	6	X	6	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	56	276	232
	71	PB8	200+77, 05' RT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	346	314
	72	PB8	200+49, 06' RT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	346	302
	81	PB2	199+82, 63' LT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	78	278
	82	PB2	199+82, 36' LT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	78	254
	83	PB2	199+55, 48' LT	6	X	18	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	78	200
	84	PB1	199+43, 51' LT	6	X	18	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	42	254
STH 35 & CTH C	11	PB23	160+60, 10' LT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	194	212
	12	PB23	160+86, 13' LT	6	X	20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	194	236
	31	PB16							EXISTING	--	260	--
	32	PB16							EXISTING	--	260	--
	33	PB16							EXISTING	--	906	--
	61	PB20	162+39, 32' LT	6	X	6	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	265	368
	62	PB22	164+55, 34' LT	6	X	20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	482	336
									TOTAL	2026	6421	6700

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0050

TRAFFIC SIGNALS
STH 35

3

TRAFFIC SIGNAL CABLE AND ELECTRICAL WIRE

INTERSECTION	LOC. TO	LOC.	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.	* 655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.	SPV.0090.01 INSTALL STATE FURNISHED CAT-5E CABLE L.F.
STH 35 & PARENT ST	CB1	SB2	--	110	110	110	--	--	--	--
	CB1	SB3	--	197	--	--	--	--	235	--
	CB1	SB4	194	--	--	--	--	204	--	--
	CB1	SB5	--	229	--	--	--	--	--	--
	CB1	SB6	--	350	--	--	--	--	398	810
	CB1	SB7	--	381	--	--	--	391	--	--
	CB1	SB8	--	391	--	--	--	401	--	--
	CB1	SB9	393	--	--	--	--	403	--	--
	CB1	SB10	--	409	--	--	--	419	--	--
	CB1	SB11	--	221	--	--	--	--	259	--
	CB1	SB12	175	--	--	--	--	185	--	--
	CB1	SB13	--	167	--	--	--	--	--	--
	CB1	SB14	--	67	67	67	--	--	115	149
	SB2	SB3	--	--	--	233	--	--	--	--
	SB3	SB4	--	--	--	48	--	--	--	--
	SB4	SB5	--	--	--	79	--	--	--	--
	SB5	SB6	--	--	--	158	--	--	--	--
	SB6	SB7	--	--	--	109	--	--	--	--
	SB7	SB8	--	--	--	97	--	--	--	--
	SB8	SB9	--	--	--	54	--	--	--	--
	SB9	SB10	--	--	--	73	--	--	--	--
	SB10	SB11	--	--	--	216	--	--	--	--
	SB11	SB12	--	--	--	125	--	--	--	--
	SB12	SB13	--	--	--	70	--	--	--	--
	SB13	SB14	--	--	--	151	--	--	--	--
	SB1	SB3	--	--	184	--	--	--	--	--
	SB3	SB6	--	--	204	--	--	--	--	--
	SB14	SB11	--	--	205	--	--	--	--	--
	SB11	SB7	--	--	147	--	--	--	--	--
	SB1	LUMINAIRE	--	--	--	--	126	--	--	--
	SB2	HEAD 16	22	--	--	--	--	--	--	--
	SB2	HEAD 18	21	--	--	--	--	--	--	--
	SB3	HEAD 12	53	--	--	--	--	--	--	--
	SB3	HEAD 13	21	--	--	--	--	--	--	--
	SB3	HEAD 17	71	--	--	--	--	--	--	--
	SB3	LUMINAIRE	--	--	--	--	120	--	--	--
	SB4	HEAD 41	15	--	--	--	--	--	--	--
	SB5	HEAD 1	21	--	--	--	--	--	--	--
	SB5	HEAD 9	22	--	--	--	--	--	--	--
	SB5	HEAD 15	26	--	--	--	--	--	--	--

(CONTINUED ON NEXT PAGE)

SIGNAL MOUNTING HARDWARE

INTERSECTION	658.5070.01 SIGNAL MOUNTING HARDWARE EACH	658.5070.02 SIGNAL MOUNTING HARDWARE EACH
STH 35 & PARENT STREET	1	--
STH 35 & CTH C	--	1
Total	**1**	**1**

EMERGENCY VEHICLE PREEMPTION

INTERSECTION	SPV.0060.03 INSTALL STATE FURNISHED EVP DETECTOR HEADS EACH
STH 35 & PARENT STREET	1
TOTAL	**1**

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES ELSEWHERE

ALL ITEMS ON THIS SHEET ARE CATEGORY 0050

TRAFFIC SIGNALS
STH 35

TRAFFIC SIGN/ TRAFFIC SIGNAL CABLE AND ELECTRICAL WIRE (CONTINUED)

INTERSECTION	LOC.	TO LOC.	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.	* 655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.	SPV.0090.01 INSTALL STATE FURNISHED CAT-5E CABLE L.F.
STH 35 & PARENT ST	SB6	HEAD 7	60	--	--	--	--	--	--	--
	SB6	HEAD 10	76	--	--	--	--	--	--	--
	SB6	LUMINAIRE	--	--	--	--	120	--	--	--
	SB7	HEAD 14	21	--	--	--	--	--	--	--
	SB7	HEAD 91	15	--	--	--	--	--	--	--
	SB7	LUMINAIRE	--	--	--	--	126	--	--	--
	SB8	HEAD 11	21	--	--	--	--	--	--	--
	SB8	HEAD 21	22	--	--	--	--	--	--	--
	SB8	HEAD 23	15	--	--	--	--	--	--	--
	SB9	HEAD 92	15	--	--	--	--	--	--	--
	SB10	HEAD 42	15	--	--	--	--	--	--	--
	SB10	HEAD 8	21	--	--	--	--	--	--	--
	SB11	HEAD 19	52	--	--	--	--	--	--	--
	SB11	HEAD 20	21	--	--	--	--	--	--	--
	SB11	HEAD 22	71	--	--	--	--	--	--	--
	SB11	LUMINAIRE	--	--	--	--	120	--	--	--
	SB12	HEAD 24	15	--	--	--	--	--	--	--
	SB13	HEAD 4	22	--	--	--	--	--	--	--
	SB13	HEAD 6	21	--	--	--	--	--	--	--
	SB14	HEAD 2	56	--	--	--	--	--	--	--
	SB14	HEAD 3	21	--	--	--	--	--	--	--
	SB14	HEAD 5	69	--	--	--	--	--	--	--
	SB14	LUMINAIRE	--	--	--	--	120	--	--	--
	CB1	SB3	--	--	253	--	--	--	--	--
	CB1	SB7	--	406	--	--	--	--	--	--
	CB1	SB8	--	366	--	--	--	--	--	--
	CB1	SB9	--	308	--	--	--	--	--	--
	CB1	SB10	--	234	--	--	--	--	--	--
	CB1	SB11	--	269	--	--	--	--	--	--
	CB1	SB12	--	92	92	92	--	--	--	165
STH 35 & CTH C	SB10	SB11	--	--	--	122	--	--	--	--
	SB11	SB12	--	--	--	223	--	--	--	--
	SB12	SB9	--	--	261	--	--	--	--	--
	SB3	SB6	--	--	241	--	--	--	--	--
	PB23	SB11	--	--	--	75	--	--	--	--
	PB24	SB12	--	--	--	31	--	--	--	--
	SB11	HEAD 11	22	--	--	--	--	--	--	--
	SB12	HEAD 7	56	--	--	--	--	--	--	--
	SB12	HEAD 12	21	--	--	--	--	--	--	--
		TOTAL	**1762**	**4197**	**1764**	**2133**	**732**	**2003**	**1007**	**1124**

TRAFFIC SIGNAL FACES

INTERSECTION	SIG. HEAD NO.	SIG. BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
STH 35 & PARENT STREET	1	SB5	1~	--	--
	2	SB14	1~	--	--
	3	SB14	1~	--	--
	4	SB13	--	1**	--
	5	SB14	--	1~	--
	6	SB13	1~	--	--
	7	SB6	1~	--	--
	8	SB10	1~	--	--
	9	SB5	--	1**	--
	10	SB6	--	1~	--
	11	SB8	1	--	--
	12	SB3	1	--	--
	13	SB3	1	--	--
	14	SB7	1	--	--
	15	SB5	1	--	--
	16	SB2	--	1	--
	17	SB3	--	1	--
	18	SB2	1	--	--
	19	SB11	1	--	--
	20	SB11	1	--	--
	21	SB8	--	1	--
	22	SB11	--	1	--
	23	SB8	--	--	1
	24	SB12	--	--	1
	41	SB4	--	--	1
	42	SB10	--	--	1
	91	SB7	--	--	1
	92	SB9	--	--	1
STH 35 & CTH C	7	SB12	1~	--	--
	11	SB11	--	1~	--
	12	SB12	1~	--	--
	TOTAL		**16**	**9**	**6**

~RETROREFLECTIVE BACKPLATE REQUIRED.

****RETROREFLECTIVE BACKPLATE AND VISOR REQUIRED.**

LEGEND

***** **ADDITIONAL ITEMS FOR QUANTITIES ELSEWHERE**

ALL ITEMS ON THIS SHEET ARE CATEGORY 0050

TRAFFIC SIGNALS
STH 35

TRAFFIC SIGNAL EQUIPMENT

INTERSECTION	SIG. BASE NO.	* 657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0305 POLES TYPE 2 EACH	657.0310 POLES TYPE 3 EACH	657.0322 POLES TYPE 5-ALUMINUM EACH	657.0352 POLES TYPE 10-SPECIAL EACH	657.0360 POLES TYPE 13 EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0536 MONOTUBE ARMS 35-FT-SPECIAL EACH	657.0546 MONOTUBE ARMS 45-FT-SPECIAL EACH	657.0550 MONOTUBE ARMS 50-FT EACH	657.0614 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 8-FT EACH	657.0615 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 8-FT EACH	657.0806 LUMINAIRE ARMS STEEL 6-FT EACH	657.0815 LUMINAIRE ARMS STEEL 15-FT EACH	* 658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1115 LUMINAIRES UTILITY LED-A EACH	659.1125 LUMINAIRES UTILITY LED-C EACH
STH 35 & PARENT STREET	SB1	--	1	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	1	--
	SB2	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
	SB3	--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	1	--	--	--	1
	SB4	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--
	SB5	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB6	--	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	1	--	--	1
	SB7	--	1	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	1	1	--
	SB8	1	--		--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--
	SB9	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--
	SB10	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--
	SB11	--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	1	--	--	--	1
	SB12	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--
	SB13	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
	SB14	--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	1	--	--	1
STH 35 & CTH C	SB11	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
	SB12	--	--	--	--	--	1	--	--	--	1	--	--	--	--	--	--	1	--	--	1
	TOTAL	8	3	1	1	1	4	1	5	3	1	3	1	1	1	2	3	6	2	5	

ELECTRICAL SERVICE METER BREAKER PEDESTAL

INTERSECTION	CABINET NO.	** STATION	656.0201.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL EACH
STH 35 & PARENT STREET	CB1	199+06, 73' LT	1
		Total	1

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0050

TRAFFIC SIGNALS
STH 35

SIGNAL EQUIPMENT

SIG. BASE NO.	* 657.0100 PEDESTAL BASES EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	* 658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB1	1	1	1
SB2	1	1	1
TOTAL	2	2	2

CONCRETE BASES

SIGNAL BASE NO.	** LOCATION	* 654.0101 CONCRETE BASES TYPE 1 EACH
SB1	207+85, 39' LT	1
SB2	207+74, 16' RT	1
TOTAL		2

RECTANGULAR RAPID FLASHING BEACON

** LOCATION	SPV.0060.04 RECTANGULAR RAPID FLASHING BEACON SYSTEM EACH
STH 35	1
TOTAL	1

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0060

STH 35 RRFB

PAGE 1 OF 1

STATION	LOCATION	SPV.0060.09 BYPASS/TEMPORARY SEWER EACH	SPV.0060.10 SANITARY SEWER MANHOLE (48-INCH) 0' - 10' DEPTH EACH	SPV.0060.11 CONNECT NEW MANHOLE TO EXISTING SANITARY SEWER EACH	SPV.0060.12 12-INCH DIP OUTSIDE DROP SANITARY MANHOLE EACH	SPV.0060.13 SANITARY SERVICE WYE 10-INCH X 6-INCH EACH	SPV.0060.14 SANITARY SERVICE WYE 10-INCH X 4-INCH EACH	SPV.0090.05 SANITARY SEWER PVC 12-INCH LF	SPV.0090.06 SANITARY SEWER DIP 12-INCH LF	SPV.0090.07 SANITARY SEWER PVC 10-INCH LF	SPV.0090.08 SANITARY SEWER PVC 8-INCH LF	SPV.0090.09 SANITARY LATERAL PVC 6-INCH LF	SPV.0090.10 SANITARY LATERAL PVC 4-INCH LF	SPV.0200.01 SANTIARY LATERAL RISER PVC 4-INCH VF	SPV.0200.02 SANITARY SEWER MANHOLE (48-INCH) GREATER THAN 10' VF
8+25 (Main St)	38' LT	--	1	-	-	-	-	-	-	-	-	-	-	-	-
8+25 - 199+59	LT	--	-	-	-	-	-	220	-	-	-	-	-	-	-
199+59 - 198+78	LT	--	-	-	-	-	-	81	20	-	-	-	-	-	-
198+78	73' LT	--	1	1	1	-	-	-	20	-	-	-	-	-	4.4
9+42 (Parent St)	14' RT	--	1	1	-	-	-	-	-	-	-	-	-	-	4.2
9+42 - 200+15	LT	--		-	-	-	-	-	-	-	90	-	-	-	-
200+15	41' RT	--	1	-	1	-	-	-	-	-	-	-	-	-	7.1
200+15 - 203+81	RT	--	-	-	-	-	-	-	-	358	-	-	-	-	-
200+35	54' LT	--	-	-	-	-	-	-	-	-	-	-	-	-	-
202+28	10' LT	--	-	-	-	-	-	-	-	-	-	-	-	-	-
202+36	37' RT	--	-	-	-	1	-	-	-	-	-	35	-	-	-
203+49	5' LT	--	-	-	-	-	-	-	-	-	-	-	-	-	-
203+62	10' RT	--	-	-	-	-	1	-	-	-	-	-	102	-	-
203+81	6' RT	--	1	-	-	-	-	-	-	-	-	-	-	-	2.4
203+81 - 205+09	RT	--	-	-	-	-	-	-	-	128	-	-	-	-	-
205+09	5' LT	--	1	1	-	-	-	-	-	-	4	-	-	-	4.1
205+09 - 208+73	RT	--	-	-	-	-	-	-	-	364	-	-	-	-	-
205+80	3' RT	--	-	-	-	-	1	-	-	-	-	-	41	5.0	-
206+15	3' RT	--	-	-	-	-	1	-	-	-	-	-	38	6.0	-
206+50	2' RT	--	-	-	-	1	-	-	-	-	-	48	-	7.0	-
208+73	4' RT	--	1	-	-	-	-	-	-	-	-	-	-	-	10.1
208+73 - 211+06	RT	--	-	-	-	-	-	-	-	233	-	-	-	-	-
209+01	4' RT	--	-	-	-	-	1	-	-	-	-	-	36	7.5	-
209+07	4' RT	--	-	-	-	-	1	-	-	-	-	-	36	7.5	-
209+23	3' RT	--	-	-	-	-	1	-	-	-	-	-	30	7.0	-
211+06 - 213+80	RT	--	-	-	-	-	-	-	-	275	-	-	-	-	-
211+06	0' RT	--	1	1	-	-	-	-	-	-	4	-	-	-	3.5
211+23	0' RT	--	-	-	-	-	1	-	-	-	-	-	34	-	-
211+93	0' RT	--	-	-	-	-	1	-	-	-	-	-	32	-	-
212+99	1' RT	--	-	-	-	-	1	-	-	-	-	-	30	-	-
213+24	1' RT	--	-	-	-	-	1	-	-	-	-	-	30	-	-
213+76	1' RT	--	-	-	-	-	1	-	-	-	-	-	29	-	-
213+80	1' RT	--	1	1	-	-	-	-	-	-	4	-	-	-	2.8
213+80 - 216+80	LT	--	-	-	-	-	-	-	-	300	-	-	-	-	-
214+24	1' RT	--	-	-	-	-	1	-	-	-	-	-	29	-	-
214+44	1' RT	--	-	-	-	-	1	-	-	-	-	-	36	-	-
215+05	0' LT	--	-	-	-	-	-	-	-	-	-	-	-	-	-
215+12	2' RT	--	-	-	-	-	1	-	-	-	-	-	35	-	-
215+47	3' RT	--	-	-	-	-	1	-	-	-	-	-	31	-	-
215+51	3' RT	--	-	-	-	-	1	-	-	-	-	-	31	-	-
216+37	1' RT	--	-	-	-	-	1	-	-	-	-	-	33	-	-
216+40	1' RT	--	-	-	-	-	1	-	-	-	-	-	32	3.5	-
216+80	5' LT	--	1	-	-	-	-	-	-	-	-	-	-	-	5.9
216+80 - 219+07	LT	--	-	-	-	-	-	-	-	227	-	-	-	-	-
217+27	0' LT	--	-	-	-	-	1	-	-	-	-	-	34	5.0	-
217+72	0' RT	--	-	-	-	-	1	-	-	-	-	-	33	6.0	-
217+82	0' RT	--	-	-	-	-	1	-	-	-	-	-	34	6.0	-
218+67	0' RT	--	-	-	-	-	1	-	-	-	-	-	32	7.5	-
218+83	0' RT	--	-	-	-	-	1	-	-	-	-	-	34	7.5	-
218+86	0' RT	--	-	-	-	-	1	-	-	-	-	-	32	7.5	-
219+07	5' LT	--	1	-	-	-	-	-	-	-	-	-	-	-	10.1
219+07 - 221+76	LT	--	-	-	-	-	-	-	-	271	-	-	-	-	-
220+60	18' LT	--	-	-	-	-	1	-	-	-	-	-	51	7.0	-
221+00	32' LT	--	-	-	-	-	-	-	-	-	-	-	-	-	-
221+79	34' LT	--	1	1	-	-	-	-	-	-	-	-	-	-	8.5
160+27 - 222+31	STH 35	1	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL 0010		1	12	6	2	2	25	301	40	2,156	102	83	915	90.0	63.1

STATION	LOCATION	SPV.0060.15 REMOVE SANITARY SEWER STRUCTURE EACH	SPV.0090.11 ABANDON SANITARY SEWER PIPES LF	SPV.0090.12 REMOVE SANITARY SEWER PIPES LF	SPV.0090.13 REMOVE SANITARY LATERAL LF
8+25 (Main St)	38' LT	1	-	-	-
8+25 - 199+59	LT	-	136	83	-
199+59 - 198+78	LT	-	53	15	-
198+78	73' LT	1	-	-	-
9+42 - 200+15	LT	-	72	45	-
200+15	41' RT	-	-	-	-
200+15 - 203+81	RT	-	286	71	-
200+35	54' LT	1	-	-	-
202+28	10' LT	1	-	-	-
202+36	37' RT	-	-	-	79
203+49	5' LT	-	-	-	31
203+81 - 205+09	RT	-	-	140	-
205+09	5' LT	1	-	-	-
205+09 - 208+73	RT	-	-	364	-
205+80	3' RT	-	-	-	33
206+15	3' RT	-	-	-	31
206+50	2' RT	-	-	-	55
208+73	4' RT	1	-	-	-
208+73 - 211+06	RT	-	-	233	-
209+01	4' RT	-	-	-	31
209+07	4' RT	-	-	-	30
209+23	3' RT	-	-	-	33
211+06 - 213+80	RT	-	-	275	-
211+06	0' RT	1	-	-	10
211+23	0' RT	-	-	-	36
211+93	0' RT	-	-	-	31
212+99	1' RT	-	-	-	30
213+24	1' RT	-	-	-	30
213+76	1' RT	-	-	-	29
213+80	1' RT	1	-	-	-
213+80 - 216+80	LT	-	-	300	-
214+24	1' RT	-	-	-	30
214+44	1' RT	-	-	-	36
215+05	0' LT	1	-	-	-
215+12	2' RT	-	-	-	36
215+47	3' RT	-	-	-	28
215+51	3' RT	-	-	-	28
216+37	1' RT	-	-	-	37
216+40	1' RT	-	-	-	28
216+80 - 219+07	LT	-	-	227	-
217+27	0' LT	-	-	-	37
217+72	0' RT	-	-	-	28
217+82	0' RT	-	-	-	40
218+67	0' RT	-	-	-	27
218+83	0' RT	-	-	-	39
218+86	0' RT	-	-	-	26
219+07	5' LT	1	-	-	-
219+07 - 221+76	LT	-	-	280	-
220+60	18' LT	-	-	-	45
221+00	32' LT	1	-	-	-
TOTAL 0010		11	547	2,033	954

STATION	LOCATION	SPV.0060.16 REMOVE HYDRANT, VALVE & LEAD EACH	SPV.0060.17 REMOVE GATE VALVE & BOX EACH	SPV.0090.14 REMOVE WATERMAIN LF	SPV.0090.15 ABANDON WATERMAIN LF	SPV.0090.16 REMOVE WATER SERVICE LF
8+04 (Parent St)	11' LT	1	-	-	-	-
8+04-200+00	LT	-	-	62	187	-
8+67	18' LT	-	1	-	-	-
8+88	44' LT	-	-	-	-	-
8+27-10+00/200+00 (Main St)	LT	-	-	129	-	-
8+94	58' LT	1	-	-	-	-
9+40	23' LT	-	1	-	-	-
200+00/10+00 - 196+83	LT	-	-	42	335	-
199+02	89' LT	1	-	-	-	-
200+00-206+00	LT	-	-	881	120	-
200+55	42' LT	-	1	-	-	-
202+30	18' LT	-	-	-	-	81
203+32	44' RT	1	2	-	-	-
203+57	19' LT	-	-	-	-	90
205+00	68' RT	-	-	-	-	-
205+05	RT	-	2	65	-	-
205+84	19' LT	-	-	-	-	38
206+00-212+00	LT	-	-	1200	-	-
206+18	19' LT	-	-	-	-	37
207+05	38' LT	-	-	-	-	-
207+54	16' LT	1	2	-	-	-
208+91	15' LT	-	-	-	-	38
209+24	15' LT	1	-	27	-	43
211+01	18' RT	-	1	15	-	-
211+21	5' RT	-	1	-	-	-
211+29	15' LT	-	-	-	-	39
211+95	15' LT	-	-	-	-	25
212+00 -218+00	LT	-	-	1200	-	-
212+95	15' LT	-	-	-	-	24
213+21	15' LT	-	-	-	-	24
213+80'	24' RT	-	1	-	-	-
213+71	15' LT	-	-	-	-	-
213+80	6' RT	-	-	25	-	-
213+91	15' LT	-	-	-	-	24
214+27	14' LT	-	-	-	-	25
214+42	14' LT	-	-	-	-	42
215+02	31' LT	-	-	-	-	-
215+10	11' LT	-	-	-	-	42
215+44	10' LT	-	-	-	-	24
215+54	10' LT	-	-	-	-	24
216+08	29' RT	1	-	-	-	-
216+11	9' RT	-	1	-	-	-
216+33	10' LT	-	-	-	-	23
216+35	10' LT	-	-	-	-	42
217+30	10' LT	-	-	-	-	44
217+52	28' LT	-	1	40	-	-
217+59	11' RT	-	1	-	-	-
217+75	10' LT	-	-	-	-	21
217+85	10' LT	-	-	-	-	45
218+00 - 224+00	LT	-	-	677	-	-
218+70	10' LT	-	-	-	-	30
218+77	10' LT	-	-	-	-	36
218+80	10' LT	-	-	-	-	35
219+08	29' LT	1	-	-	-	-
220+60	41' LT	-	-	-	-	30
220+62	41' LT	-	-	-	-	-
220+64	40' LT	-	1	64	-	-
TOTAL 0010		8	16	4,428	642	926

STATION	LOCATION	SPV.0060.18 CONNECT TO EXISTING WATER MAIN EACH	SPV.0060.19 45° BEND 8-INCH EACH	SPV.0060.20 22.5° BEND 8-INCH EACH	SPV.0060.21 11.25° BEND 8-INCH EACH	SPV.0060.22 GATE VALVE 8-INCH EACH	SPV.0060.23 GATE VALVE 12-INCH EACH	SPV.0060.24 22.5° BEND 12-INCH EACH	SPV.0060.25 11.25° BEND 12-INCH EACH	SPV.0060.26 TEE 12-INCH X 8-INCH EACH	SPV.0060.27 TEE 12-INCH X 6-INCH EACH	SPV.0060.28 TEE 12-INCH X 4-INCH EACH	SPV.0060.29 TEE 8-INCH X 6-INCH EACH	SPV.0060.30 CROSS 12-INCH X 12-INCH EACH	SPV.0060.31 REDUCER 12-INCH X 8-INCH EACH	SPV.0060.32 REDUCER 8-INCH X 6-INCH EACH	SPV.0060.33 HYDRANT EACH
8+04 (Parent St)	11' LT	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8+04-200+00	LT	-	4	1	1	1	-	-	-	-	-	-	1	-	-	1	-
8+67	18' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8+88	44' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
8+27-10+00/200+00 (Main St)	LT	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-
8+94	58' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
9+40	23' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200+00/10+00 - 196+83	LT	1	-	-	-	-	1	2	3	-	1	-	-	-	-	-	-
199+02	89' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
200+00-206+00	LT	-	-	-	-	1	2	-	3	-	2	1	-	1	1	-	-
200+55	42' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202+30	18' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203+32	44' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
203+57	19' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205+00	68' RT	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205+05	RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205+84	19' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206+00-212+00	LT	-	-	-	-	-	1	-	-	1	2	1	-	-	-	-	-
206+18	19' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207+05	38' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
207+54	16' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208+91	15' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209+24	15' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
211+01	18' RT	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
211+21	5' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
211+29	15' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
211+95	15' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
212+00 -218+00	LT	-	-	-	-	-	2	-	-	2	1	-	-	-	-	-	-
212+95	15' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
213+21	15' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
213+80'	24' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
213+71	15' LT	1	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-
213+80	6' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
213+91	15' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
214+27	14' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
214+42	14' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215+02	31' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
215+10	11' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215+44	10' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215+54	10' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216+08	29' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216+11	9' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216+33	10' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216+35	10' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217+30	10' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217+52	28' LT	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
217+59	11' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217+75	10' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217+85	10' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
218+00 - 224+00	LT	1	-	-	-	-	1	-	2	1	1	-	-	-	-	-	-
218+70	10' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
218+77	10' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
218+80	10' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
219+08	29' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
220+60	41' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220+62	41' LT	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
220+64	40' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL 0010		8	6	1	2	6	8	2	8	4	8	2	1	1	1	1	7

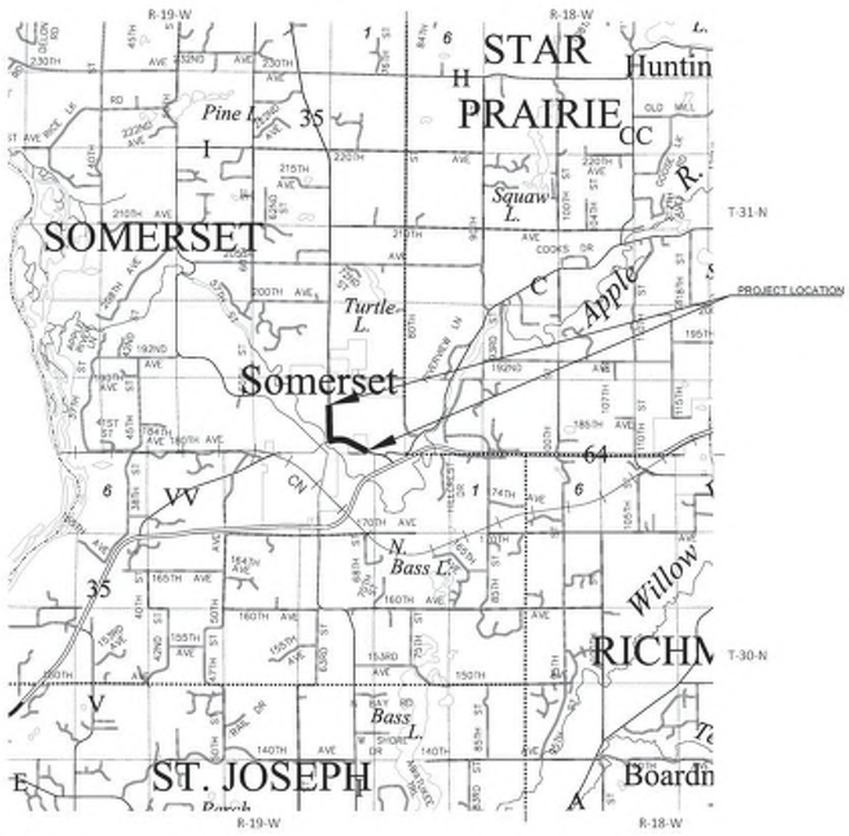
STATION	LOCATION	SPV.0060.34 GATE VALVE 6-INCH EACH	SPV.0060.35 11.25° BEND 6-INCH EACH	SPV.0060.36 22.5° BEND 6-INCH EACH	SPV.0060.37 45° BEND 6-INCH EACH	SPV.0060.38 GATE VALVE 4-INCH EACH	SPV.0060.39 CURB STOP 1-INCH EACH	SPV.0060.40 CORP STOP 1-INCH EACH	SPV.0060.41 CURB STOP 2-INCH EACH	SPV.0060.42 CORP STOP 2-INCH EACH
8+04 (Parent St)	11' LT	-	-	-	-	-	-	-	-	-
8+04-200+00	LT	1	1	-	-	-	-	-	-	-
8+67	18' LT	-	-	-	-	-	-	-	-	-
8+88	44' LT	1	-	-	-	-	-	-	-	-
8+27-10+00/200+00 (Main St)	LT	-	-	-	-	-	-	-	-	-
8+94	58' LT	1	-	-	-	-	-	-	-	-
9+40	60' LT	-	-	-	-	-	-	-	-	-
200+00/10+00 - 196+83	LT	-	-	-	-	-	-	-	-	-
199+02	89' LT	1	-	1	-	-	-	-	-	-
200+00-206+00	LT	-	-	-	-	-	-	-	-	-
200+55	42' LT	-	-	-	-	-	-	-	-	-
202+30	18' LT	-	-	-	-	1	-	-	-	-
203+32	44' RT	1	-	-	-	-	-	-	-	-
203+57	19' LT	-	-	-	-	-	1	1	-	-
205+00	68' RT	1	-	-	2	-	-	-	-	-
205+05	RT	-	-	-	-	-	-	-	-	-
205+84	19' LT	-	-	-	-	-	-	-	1	1
206+00-212+00	LT	-	-	-	-	-	-	-	-	-
206+18	19' LT	-	-	-	-	-	1	1	-	-
207+05	38' LT	1	-	-	-	-	-	-	-	-
207+54	16' LT	-	-	-	-	1	-	-	-	-
208+91	15' LT	-	-	-	-	-	1	1	-	-
209+24	15' LT	-	-	-	-	-	1	1	-	-
211+01	18' RT	-	-	-	-	-	-	-	-	-
211+21	5' RT	-	-	-	-	-	-	-	-	-
211+29	15' LT	-	-	-	-	-	1	1	-	-
211+95	15' LT	-	-	-	-	-	1	1	-	-
212+00 -218+00	LT	-	-	-	-	-	-	-	-	-
212+95	15' LT	-	-	-	-	-	1	1	-	-
213+21	15' LT	-	-	-	-	-	1	1	-	-
213+80	24' RT	-	-	-	-	-	-	-	-	-
213+71	15' LT	-	-	-	-	-	-	-	-	-
213+80	6' RT	-	-	-	-	-	-	-	-	-
213+91	15' LT	-	-	-	-	-	1	1	-	-
214+27	14' LT	-	-	-	-	-	1	1	-	-
214+42	14' LT	-	-	-	-	-	1	1	-	-
215+02	31' LT	1	-	-	-	-	-	-	-	-
215+10	11' LT	-	-	-	-	-	1	1	-	-
215+44	10' LT	-	-	-	-	-	1	1	-	-
215+54	10' LT	-	-	-	-	-	1	1	-	-
216+08	29' RT	-	-	-	-	-	-	-	-	-
216+11	9' RT	-	-	-	-	-	-	-	-	-
216+33	10' LT	-	-	-	-	-	1	1	-	-
216+35	10' LT	-	-	-	-	-	1	1	-	-
217+30	10' LT	-	-	-	-	-	1	1	-	-
217+52	28' LT	-	-	-	-	-	-	-	-	-
217+59	11' RT	-	-	-	-	-	-	-	-	-
217+75	10' LT	-	-	-	-	-	1	1	-	-
217+85	10' LT	-	-	-	-	-	1	1	-	-
218+00 - 224+00	LT	-	-	-	-	-	-	-	-	-
218+70	10' LT	-	-	-	-	-	1	1	-	-
218+77	10' LT	-	-	-	-	-	1	1	-	-
218+80	10' LT	-	-	-	-	-	1	1	-	-
219+08	29' LT	1	-	-	-	-	-	-	-	-
220+60	41' LT	-	-	-	-	-	-	-	1	1
220+62	41' LT	-	-	-	-	-	-	-	-	-
220+64	40' LT	-	-	-	-	-	-	-	-	-
TOTAL 0010		9	1	1	2	2	22	22	2	2

STATION	LOCATION	SPV.0090.17 DUCTILE IRON WATER MAIN 12-INCH LF	SPV.0090.18 DUCTILE IRON WATER MAIN 8-INCH LF	SPV.0090.19 DUCTILE IRON WATER MAIN 6-INCH LF	SPV.0090.20 DUCTILE IRON WATER SERVICE 4-INCH LF	SPV.0090.21 COPPER PIPE 1-INCH LF	SPV.0090.22 COPPER PIPE 2-INCH LF	612.0902.S INSULATION BOARD POLYSTYRENE (01. 2-INCH) SY
8+04 (Parent St)	11' LT	-	-	-	-	-	-	-
8+04-200+00	LT	-	210	5	-	-	-	4
8+67	18' LT	-	-	-	-	-	-	-
8+88	44' LT	-	-	35	-	-	-	-
8+27-10+00/200+00 (Main St)	LT	176	-	-	-	-	-	-
8+94	58' LT	-	-	42	-	-	-	-
9+40	60' LT	-	-	-	-	-	-	-
200+00/10+00 - 196+83	LT	371	-	-	-	-	-	8
199+02	89' LT	-	-	42	-	-	-	-
200+00-206+00	LT	604	6	-	-	-	-	11
200+55	42' LT	-	-	-	-	-	-	-
202+30	18' LT	-	-	-	89	-	-	4
203+32	44' RT	-	-	58	-	-	-	4
203+57	19' LT	-	-	-	-	71	-	-
205+00	68' RT	-	-	90	-	-	-	4
205+05	RT	-	-	-	-	-	-	-
205+84	19' LT	-	-	-	-	-	18	-
206+00-212+00	LT	600	-	-	-	-	-	4
206+18	19' LT	-	-	-	-	16	-	-
207+05	38' LT	-	-	20	-	-	-	-
207+54	16' LT	-	-	-	68	-	-	-
208+91	15' LT	-	-	-	-	18	-	-
209+24	15' LT	-	-	-	-	48	-	-
211+01	18' RT	-	34	-	-	-	-	4
211+21	5' RT	-	-	-	-	-	-	-
211+29	15' LT	-	-	-	-	19	-	-
211+95	15' LT	-	-	-	-	46	-	4
212+00 -218+00	LT	600	-	-	-	-	-	11
212+95	15' LT	-	-	-	-	46	-	8
213+21	15' LT	-	-	-	-	45	-	4
213+80	24' RT	-	43	-	-	-	-	-
213+71	15' LT	-	-	-	-	-	-	-
213+80	6' RT	-	-	-	-	-	-	-
213+91	15' LT	-	-	-	-	45	-	-
214+27	14' LT	-	-	-	-	44	-	-
214+42	14' LT	-	-	-	-	21	-	-
215+02	31' LT	-	-	19	-	-	-	-
215+10	11' LT	-	-	-	-	22	-	-
215+44	10' LT	-	-	-	-	44	-	-
215+54	10' LT	-	-	-	-	43	-	-
216+08	29' RT	-	-	-	-	-	-	-
216+11	9' RT	-	-	-	-	-	-	-
216+33	10' LT	-	-	-	-	43	-	-
216+35	10' LT	-	-	-	-	23	-	-
217+30	10' LT	-	-	-	-	23	-	-
217+52	28' LT	-	18	-	-	-	-	-
217+59	11' RT	-	-	-	-	-	-	-
217+75	10' LT	-	-	-	-	42	-	-
217+85	10' LT	-	-	-	-	24	-	-
218+00 -224+00	LT	377	-	-	-	-	-	-
218+70	10' LT	-	-	-	-	42	-	-
218+77	10' LT	-	-	-	-	24	-	-
218+80	10' LT	-	-	-	-	42	-	-
219+08	29' LT	-	-	20	-	-	-	-
220+60	41' LT	-	-	-	-	-	28	-
220+62	41' LT	-	65	-	-	-	-	-
220+64	40' LT	-	-	-	-	-	-	-
TOTAL 0010		2,728	376	331	157	791	46	67

STATION	LOCATION	SPV.0060.43 WATERMAIN TESTING EACH	SPV.0060.44 SANITARY SEWER TELEVISING EACH	SPV.0060.45 TEMPORARY WATER EACH	SPV.0060.46 ADJUSTING WATER VALVE EACH
160+27 - 222+31	STH 35	1	1	1	-
LEGRANDEUR RD INTERSECTION	STH 35	-	-	-	1
189+10	RT	-	-	-	1
193+70	RT	-	-	-	1
TOTAL 0010		1	1	1	3



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
8060-00-20
SOMERSET - ST. CROIX FALLS
CTH C TO LASER DRIVE
STH 35
ST. CROIX COUNTY



THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 8060-00-20

NOTES:

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

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

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.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

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

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.

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
TO BE REMOVED
BRIDGE
CULVERT

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	○
TELEPHONE POLE	■	○
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	■	○

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25)
UTILITY NUMBER (40)
PARALLEL OFFSETS
R/W POINT NUMBER (R6)
TLE/PLE POINT NUMBER (R6)

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF CURVATURE	PC
ACRES	AC	POINT OF COMPOUND CURVE	PCC
AHEAD	AH	POINT OF INTERSECTION	PI
ALUMINUM	ALUM	PROPERTY LINE	PL/P.L.
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	REMAINING	REM
CERTIFIED SURVEY MAP	CSM	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CONCRETE	CONC	RIGHT	RT
COUNTY	CO	RIGHT OF WAY	R/W
COUNTY TRUNK HIGHWAY	CTH	SECTION	SEC
DISTANCE	DIST	SEPTIC VENT	SEPV
CORNER	COR	SQUARE FEET	SF
DOCUMENT NUMBER	DOC/D	STATE TRUNK HIGHWAY	STH
EASEMENT	EASE	STATION	STA
EXISTING	EX	TELEPHONE PEDESTAL	TP
FOUND	FND	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		

CURVE DATA ABBREVIATIONS

RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	AH
DIRECTION BACK	BK

CONVENTIONAL UTILITY SYMBOLS

WATER
GAS
TELEPHONE
OVERHEAD TRANSMISSION LINES
ELECTRIC
CABLE TELEVISION
FIBER OPTIC
SANITARY SEWER
STORM SEWER
ELECTRIC TOWER

LAYOUT
SCALE 0 1.0 MI

PROJECT NUMBER	8060-00-20 -4. 01
SHEET	2 OF 3
AMENDMENT NO:	

FILE NAME : C:\USERS\ARBUCKLEA\DESKTOP\35 SOMERSET\4.00.DWG
LAYOUT NAME: 01
PLOT DATE : 2/2/22 PLOT BY : ARBUCKLE, ADRIAN PLOT NAME :

8060-00-20-4.01

TRANSPORTATION PROJECT PLAT NO: 8060-00-20 - 4.01

PART OF OUTLOT 44 OF THE ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET IN THE SW 1/4 OF THE SW 1/4 OF SECTION 36, T31N, R19W, VILLAGE OF SOMERSET, ST. CROIX COUNTY, WISCONSIN

RELOCATION ORDER STH 35 SOMERSET - ST. CROIX FALLS (CTH C TO LASER DRIVE) ST. CROIX 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.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED	EASEMENT
100	NORTHWEST COMMUNICATIONS	RELEASE OF RIGHTS	V 525, P 619, DOC 328045-PARCEL 1
101	VILLAGE OF SOMERSET	RELEASE OF RIGHTS	NO EASEMENT OF RECORD-PARCEL 1

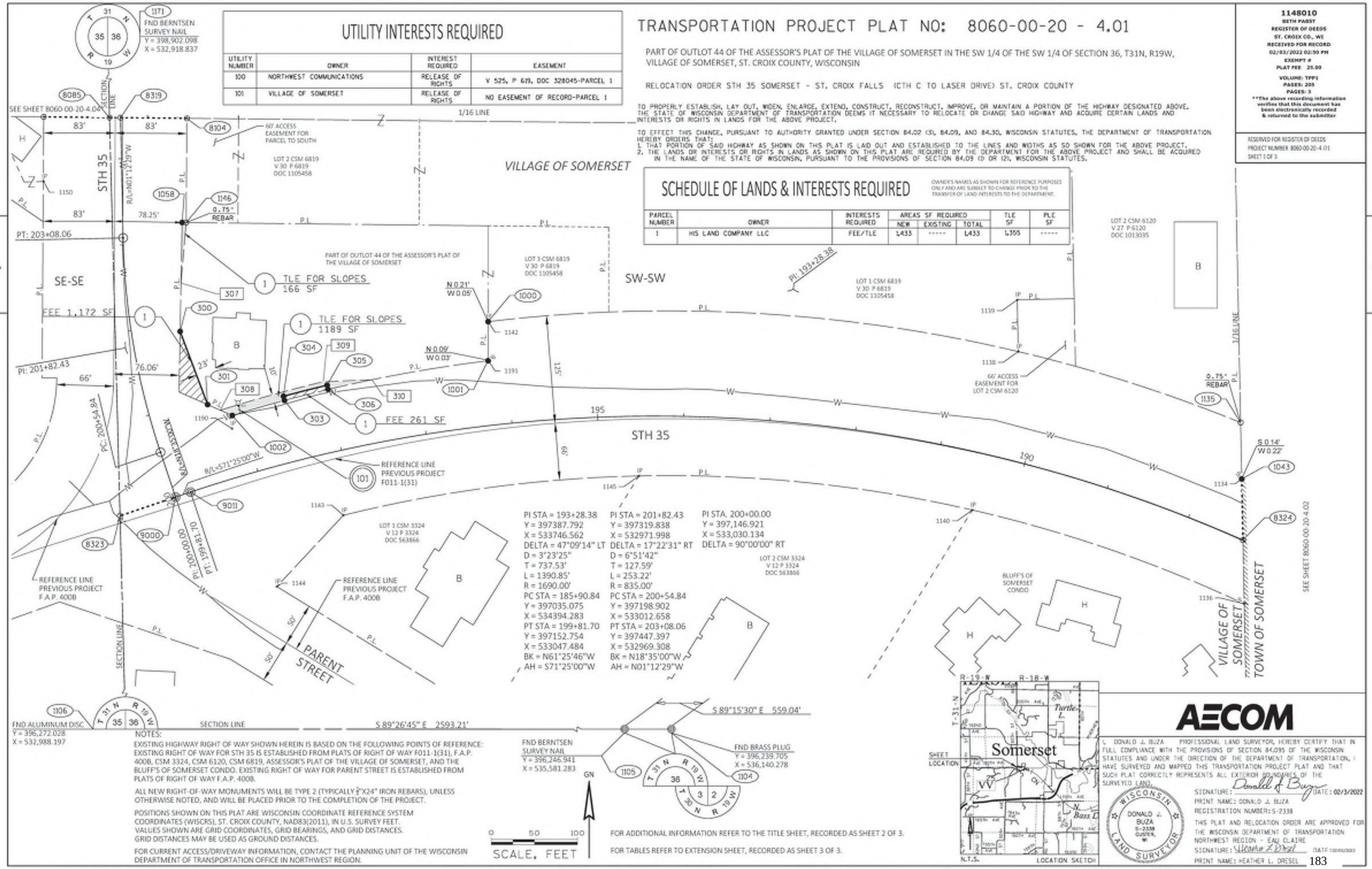
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES AS SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTERESTS REQUIRED	AREAS SF REQUIRED NEW	EXISTING	TOTAL	TLE SF	PLE SF
1	HIS LAND COMPANY LLC	FEE/TLE	1,433	-----	1,433	1,355	-----

1148010
BETH PABST
REGISTER OF DEEDS
ST. CROIX CO., WI
RECEIVED FOR RECORD
02/03/2022 02:50 PM
EXEMPT #
PLAT FEE 25.00
VOLUME: TPP1
PAGES: 205
PAGES: 3
**The above recording information verifies that this document has been electronically recorded & returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8060-00-20-4.01
SHEET 1 OF 3



NOTES:
EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT OF WAY FOR STH 35 IS ESTABLISHED FROM PLATS OF RIGHT OF WAY F011-1(31), F.A.P. 400B, CSM 3324, CSM 6120, CSM 6819, ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET, AND THE BLUFF'S OF SOMERSET CONDO. EXISTING RIGHT OF WAY FOR PARENT STREET IS ESTABLISHED FROM PLATS OF RIGHT OF WAY F.A.P. 400B.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾"X24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 3.

FOR TABLES REFER TO EXTENSION SHEET, RECORDED AS SHEET 3 OF 3.

AECOM

I, DONALD J. BUZA, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Donald J Buza DATE: 02/3/2022
PRINT NAME: DONALD J. BUZA
REGISTRATION NUMBER: S-2338

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - EAU CLAIRE
SIGNATURE: Heather L Dresel DATE: 2/3/2022
PRINT NAME: HEATHER L. DRESEL

WISCONSIN DONALD J. BUZA S-2338 CLINTON, WI LAND SURVEYOR

FILE NAME : C:\USERS\ARBUCKLEA\DESKTOP\35 SOMERSET\4.01.DWG
APPRAISAL PLAT DATE : 9/17/2021
PLOT DATE : 02/03/2022 PLOT BY : ARBUCKLE, ADRIAN PLOT NAME : PLOT SCALE : 1 IN:100 FT

8060-00-20-4.01

TRANSPORTATION PROJECT PLAT NO: 8060-00-20 - 4.01
EXTENSION SHEET

RELOCATION ORDER STH 35 SOMERSET - ST. CROIX FALLS (CTH C TO LASER DRIVE) ST. CROIX COUNTY

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

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET,
RECORDED AS SHEET 2 OF 3 .

4

4

RIGHT OF WAY CURVE TABLE

FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
1002 - 303	1717.00'	62.95'	62.95'	N 73°53'59" E
304 - 305	1716.25'	52.28'	52.28'	N 75°49'50" E
306 - 1001	1717.00'	188.72'	188.62'	N 79°50'22" E
1000 - 1135	1762.00'	889.91'	880.48'	S 82°21'48" E
8324 - 9011	1690.00'	1250.07'	1221.76'	N 87°23'34" W

EXISTING MONUMENTS

POINT	Y	X	DESCRIPTION
1134	397167.722	534266.346	1" PIPE
1135	397233.381	534265.264	0.75" REBAR
1136	397023.189	534269.359	1" PIPE
1138	397315.691	534007.457	1" PIPE
1139	397375.641	534006.196	1" PIPE
1140	397131.960	533954.126	1" PIPE
1142	397350.591	533392.534	1" PIPE
1143	397125.867	533224.726	1" PIPE
1144	397043.248	533147.576	1" PIPE
1145	397171.482	533567.475	1" PIPE
1146	397465.255	533042.466	0.75" REBAR
1150	397512.915	532877.104	0.75" REBAR
1190	397226.341	533095.604	0.75" REBAR
1191	397305.138	533392.595	1" PIPE

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
8085 - 8319	S 89°24'34" E	12.85'
8319 - 8104	S 89°24'34" E	76.84'
8104 - 1146	S 0°20'51" W	120.88'
1146 - 1058	N 89°23'03" W	4.74'
1058 - 300	S 1°02'21" W	126.33'
300 - 301	S 20°35'00" E	90.58'
301 - 1002	S 66°11'38" E	31.33'
1002 - 303	SEE CURVE TABLE	
303 - 304	N 14°07'06" W	5.00'
304 - 305	SEE CURVE TABLE	
305 - 306	S 12°25'24" E	5.00'
306 - 1001	SEE CURVE TABLE	
1001 - 1000	N 0°02'53" W	45.33'
1000 - 1135	SEE CURVE TABLE	
1135 - 1043	S 1°08'46" E	65.52'
1043 - 8324	S 1°08'46" E	70.70'
8324 - 9011	SEE CURVE TABLE	
9011 - 9000	S 71°25'00" W	18.30'
9000 - 8323	S 71°25'00" W	67.98'
8323 - 8085	N 1°30'38" W	461.97'
1106 - 1171	N 1°30'38" W	2630.98'
1171 - 8085	S 1°30'38" E	1315.49'
8323 - 1106	S 1°30'38" E	1315.49'

RIGHT OF WAY STATION AND OFFSET TABLE

POINT	STATION	OFFSET
300	201+90.00	56.05'
301	200+93.00	68.59'
303	198+50.00	71.35'
304	198+50.00	76.35'
305	198+00.00	77.17'
306	198+00.00	72.17'
1000	196+14.57	119.88'
1001	196+19.17	74.82'
1002	199+10.41	70.30'
1043	187+60.36	64.36'
1058	203+24.52	68.78'
1135	187+85.15	124.42'
1146	203+24.37	73.52'
8085	204+48.03	12.84'
8104	204+45.21	76.80'
8319	204+47.62	0.00'
8323	200+00.00	67.98'
8324	187+31.63	0.00'
9000	200+00.00	0.00'
9011	199+81.70	0.00'

TLE STATION AND OFFSET TABLE

POINT	STATION	OFFSET
307	202+50.00	64.17'
308	199+21.53	80.10'
309	198+03.30	82.12'
310	197+50.00	72.86'

PROJECT NUMBER 8060-00-20-4.01
SHEET 3 OF 3

FILE NAME : C:\USERS\ARBUCKLEA\DESKTOP\35 SOMERSET\4.01.DWG
APPRAISAL PLAT DATE : 9/17/2021
PLOT DATE : 02/03/2022
PLOT BY : ARBUCKLE, ADRIAN

NOTES:

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

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT OF WAY FOR STH 35 IS ESTABLISHED FROM PLAT OF RIGHT OF WAY F011-1(31) AND CSM 5703.

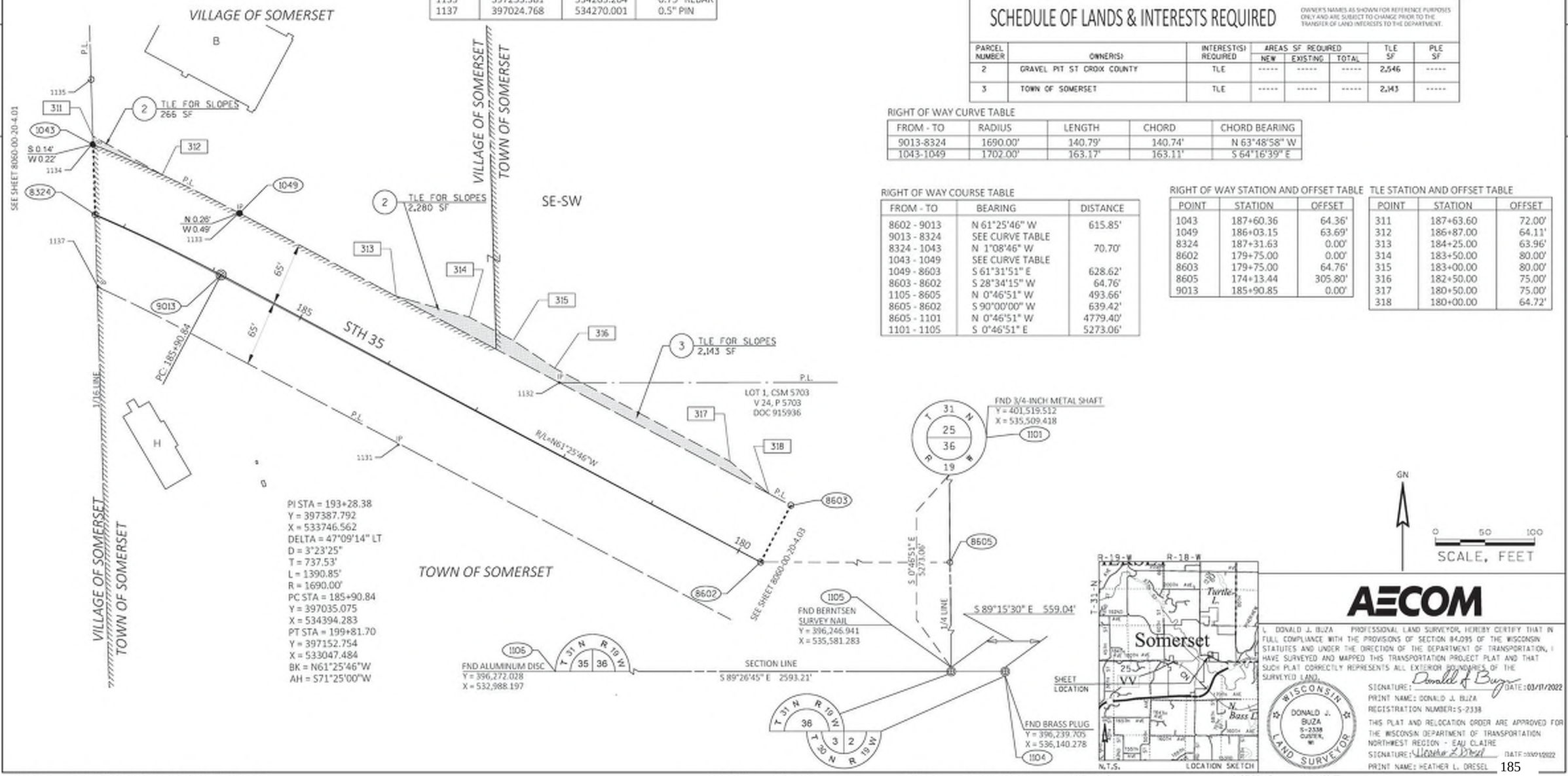
ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾"X24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN ST. CROIX COUNTY AS SHEET 2 OF 3 OF DOCUMENT NO. 1148010.

EXISTING MONUMENTS

POINT	Y	X	DESCRIPTION
1131	396862.228	534571.155	1.25" PIPE
1132	396923.231	534733.980	1" PIPE
1133	397097.335	534413.016	0.75" REBAR
1134	397167.722	534266.346	1" PIPE
1135	397233.381	534265.264	0.75" REBAR
1137	397024.768	534270.001	0.5" PIN



TRANSPORTATION PROJECT PLAT NO: 8060-00-20 - 4.02

PART OF LOT 1 OF CSM 5703, V 24, P 5703, DOC 915936 AND PART OF THE SE 1/4 OF THE SW 1/4 OF SECTION 36, T31N, R19W, VILLAGE OF SOMERSET AND TOWN OF SOMERSET, ST. CROIX COUNTY, WISCONSIN

RELOCATION ORDER STH 35 SOMERSET - ST. CROIX FALLS (CTH C TO LASER DRIVE) ST. CROIX 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.

1150413
BETH PABST
REGISTER OF DEEDS
ST. CROIX CO., WI
RECEIVED FOR RECORD
03/22/2022 11:46 AM
EXEMPT #
PLAT FEE 25.00
VOLUME: TPP1
PAGES: 207
PAGES: 1
**The above recording information verifies that this document has been electronically recorded & returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8060-00-20-4.02
SHEET 1OF 1

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES AS 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(S) REQUIRED	AREAS SF REQUIRED			TLE SF	PLE SF
			NEW	EXISTING	TOTAL		
2	GRAVEL PIT ST CROIX COUNTY	TLE	-----	-----	-----	2,546	-----
3	TOWN OF SOMERSET	TLE	-----	-----	-----	2,143	-----

RIGHT OF WAY CURVE TABLE

FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
9013-8324	1690.00'	140.79'	140.74'	N 63°48'58" W
1043-1049	1702.00'	163.17'	163.11'	S 64°16'39" E

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
8602 - 9013	N 61°25'46" W	615.85'
9013 - 8324	SEE CURVE TABLE	
8324 - 1043	N 1°08'46" W	70.70'
1043 - 1049	SEE CURVE TABLE	
1049 - 8603	S 61°31'51" E	628.62'
8603 - 8602	S 28°34'15" W	64.76'
1105 - 8605	N 0°46'51" W	493.66'
8605 - 8602	S 90°00'00" W	639.42'
8605 - 1101	N 0°46'51" W	4779.40'
1101 - 1105	S 0°46'51" E	5273.06'

RIGHT OF WAY STATION AND OFFSET TABLE

POINT	STATION	OFFSET
1043	187+60.36	64.36'
1049	186+03.15	63.69'
8324	187+31.63	0.00'
8602	179+75.00	0.00'
8603	179+75.00	64.76'
8605	174+13.44	305.80'
9013	185+90.85	0.00'

TLE STATION AND OFFSET TABLE

POINT	STATION	OFFSET
311	187+63.60	72.00'
312	186+87.00	64.11'
313	184+25.00	63.96'
314	183+50.00	80.00'
315	183+00.00	80.00'
316	182+50.00	75.00'
317	180+50.00	75.00'
318	180+00.00	64.72'

AECOM

I, DONALD J. BUZA, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Donald J. Buza DATE: 03/17/2022
PRINT NAME: DONALD J. BUZA
REGISTRATION NUMBER: S-2338

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
NORTHWEST REGION - EAU CLAIRE
SIGNATURE: Heather L Dresel DATE: 03/17/2022
PRINT NAME: HEATHER L. DRESEL

WISCONSIN DONALD J. BUZA S-2338 OSCEOLA, WI LAND SURVEYOR

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES AS 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(S) REQUIRED	AREAS SF REQUIRED			TLE SF	PLE SF
			NEW	EXISTING	TOTAL		
3	TOWN OF SOMERSET	FEE	13,431	-----	13,431	-----	-----

RIGHT OF WAY CURVE TABLE

FROM - TO	RADIUS	LENGTH	CHORD	CHORD BEARING
8127 - 9014	1430.00'	85.42'	85.41'	N 63°08'27" W

TRANSPORTATION PROJECT PLAT NO: 8060-00-20 - 4.03

PART OF LOT 1 OF CSM 5703, V 24, P 5703, DOC 915936 BEING LOCATED IN THE SE 1/4 OF THE SW 1/4 OF SECTION 36, T31N, R19W, TOWN OF SOMERSET, ST. CROIX COUNTY, WISCONSIN

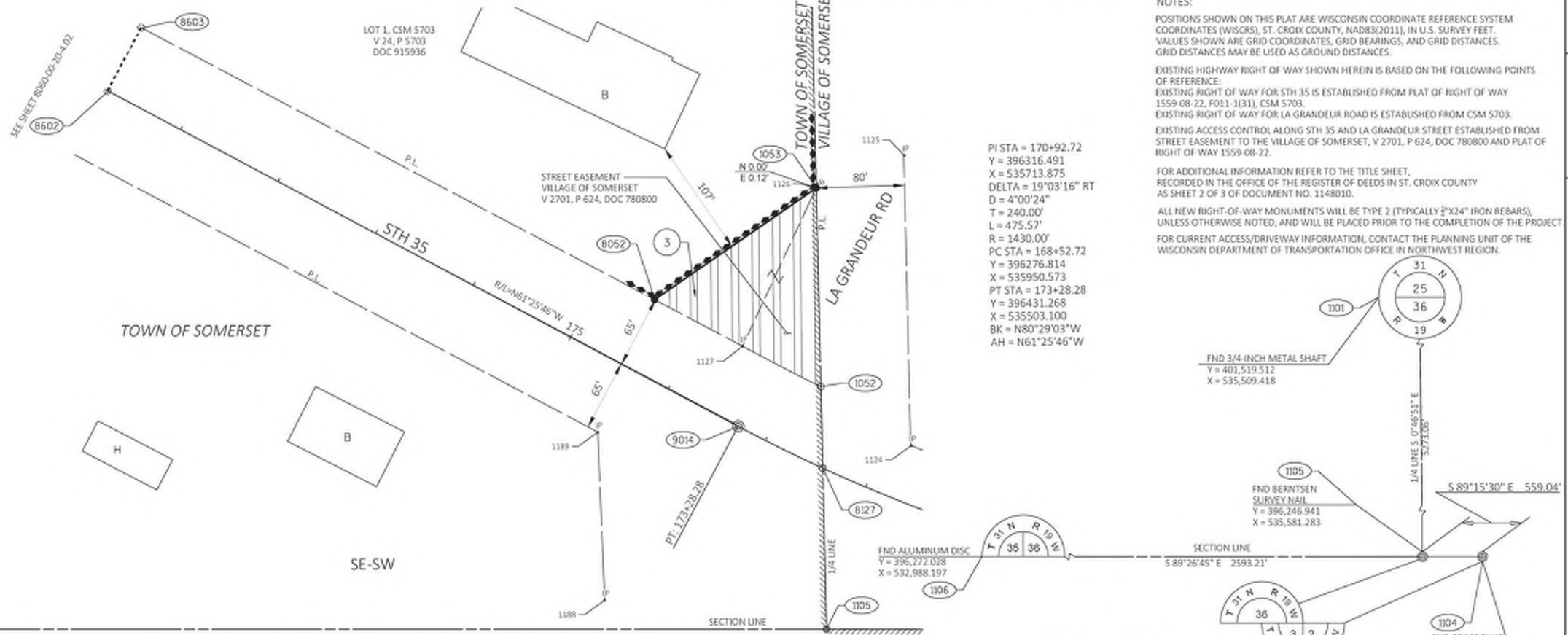
RELOCATION ORDER STH 35 SOMERSET - ST. CROIX FALLS (CTH C TO LASER DRIVE) ST. CROIX COUNTY

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.

1150414
BETH PABST
REGISTER OF DEEDS
ST. CROIX CO., WI
RECEIVED FOR RECORD
03/22/2022 11:47 AM
EXEMPT #
PLAT FEE 25.00
VOLUME: TPP1
PAGES: 208
PAGES: 1
**The above recording information verifies that this document has been electronically recorded & returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8060-00-20-4.03
SHEET 1 OF 1



PI STA = 170+92.72
Y = 396316.491
X = 535713.875
DELTA = 19°03'16" RT
D = 4°00'24"
T = 240.00'
L = 475.57'
R = 1430.00'
PC STA = 168+52.72
Y = 396276.814
X = 535950.573
PT STA = 173+28.28
Y = 396431.268
X = 535503.100
BK = N80°29'03"W
AH = N61°25'46"W

NOTES:

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

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING RIGHT OF WAY FOR STH 35 IS ESTABLISHED FROM PLAT OF RIGHT OF WAY 1559-08-22, F011-1(31), CSM 5703.
EXISTING RIGHT OF WAY FOR LA GRANDEUR ROAD IS ESTABLISHED FROM CSM 5703.

EXISTING ACCESS CONTROL ALONG STH 35 AND LA GRANDEUR STREET ESTABLISHED FROM STREET EASEMENT TO THE VILLAGE OF SOMERSET, V 2701, P 624, DOC 780800 AND PLAT OF RIGHT OF WAY 1559-08-22.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN ST. CROIX COUNTY AS SHEET 2 OF 3 OF DOCUMENT NO. 1148010.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY $\frac{3}{4}$"X24" 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 NORTHWEST REGION.

RIGHT OF WAY COURSE TABLE

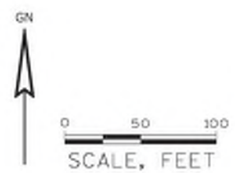
FROM - TO	BEARING	DISTANCE
8127 - 9014	SEE CURVE TABLE	
9014 - 8602	N 61°25'46" W	646.71'
8602 - 8603	N 28°34'15" E	64.76'
8603 - 8052	S 61°31'51" E	526.00'
8052 - 1053	N 55°56'04" E	177.86'
1053 - 1052	S 0°46'51" E	179.90'
1052 - 8127	S 0°46'51" E	73.76'
1101 - 1105	S 0°46'51" E	5273.06'
1105 - 8127	N 0°46'51" W	145.75'
1053 - 1101	N 0°46'51" W	4873.65'

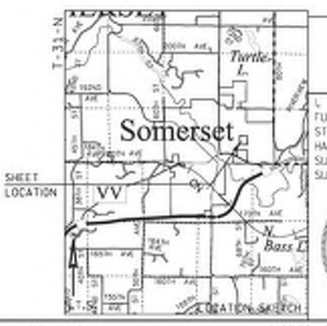
RIGHT OF WAY STATION AND OFFSET TABLE

POINT	STATION	OFFSET
1052	172+76.68	65.95'
1053	173+67.25	223.65'
1105	171+84.52	132.38'
8052	174+49.00	65.69'
8127	172+42.86	0.00'
8602	179+75.00	0.00'
8603	179+75.00	64.76'
9014	173+28.28	0.00'

EXISTING MONUMENTS

POINT	Y	X	DESCRIPTION
1124	396412.379	535659.606	1" PIPE
1125	396675.016	535655.969	1" PIPE
1126	396646.317	535575.957	1" PIPE
1127	396503.703	535507.760	1" PIPE
1188	396275.186	535380.693	PLASTIC CAP ON REBAR
1189	396427.231	535375.957	PLASTIC CAP ON REBAR





AECOM

I, DONALD J. BUZA, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Donald J Buza DATE: 03/18/2022
PRINT NAME: DONALD J. BUZA
REGISTRATION NUMBER: S-2338

WISCONSIN DONALD J. BUZA S-2338 CUSTER, WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - EAU CLAIRE
SIGNATURE: Heather L Dresel DATE: 03/21/2022
PRINT NAME: HEATHER L. DRESEL

FILE NAME: C:\USERS\ARBUCKLEA\DESKTOP\35 SOMERSET\4.01.DWG
APPRAISAL PLAT DATE: 9/17/2021
PLOT DATE: 03/18/2022
PLOT BY: ARBUCKLE, ADRIAN
PLOT NAME:
PLOT SCALE: 1 IN:100 FT

8060-00-20-4.03

NOTES:
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), ST. CROIX 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.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT OF WAY FOR STH 35 IS ESTABLISHED FROM PLAT OF RIGHT OF WAY T028-2(2), PLATS OF RIGHT OF WAY F011-1(31), PLAT OF RIGHT OF WAY F.A.P. 4008, CSM 2349, CSM 6779, CSM 6819 AND THE ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET.

FOR TABLES REFER TO EXTENSION SHEET, RECORDED AS SHEET 2 OF 2.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN ST. CROIX COUNTY AS SHEET 2 OF 3 OF DOCUMENT NO. 1148010.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾"X24" 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 NORTHWEST REGION.

TRANSPORTATION PROJECT PLAT NO: 8060-00-20 - 4.04

BEING PART OF LOT 1, CSM 6779, V 30, P 6779, DOC 1100039, PART OF OUTLOTS 31, 33 AND 34 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET, LOCATED IN THE NE 1/4 OF THE SE 1/4 OF SECTION 35 AND PART OF LOT 2, CSM 6819, V 30, P 6819, DOC 1105458, PART OF THE LOT 2, CSM 2349, V 8, P 2349, DOC 468376, PART OF OUTLOTS 22, 23, 24 AND 25 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET LOCATED IN THE NW 1/4 OF THE SW 1/4 OF SECTION 36, ALL IN T31N, R19W, VILLAGE OF SOMERSET, ST. CROIX COUNTY, WISCONSIN

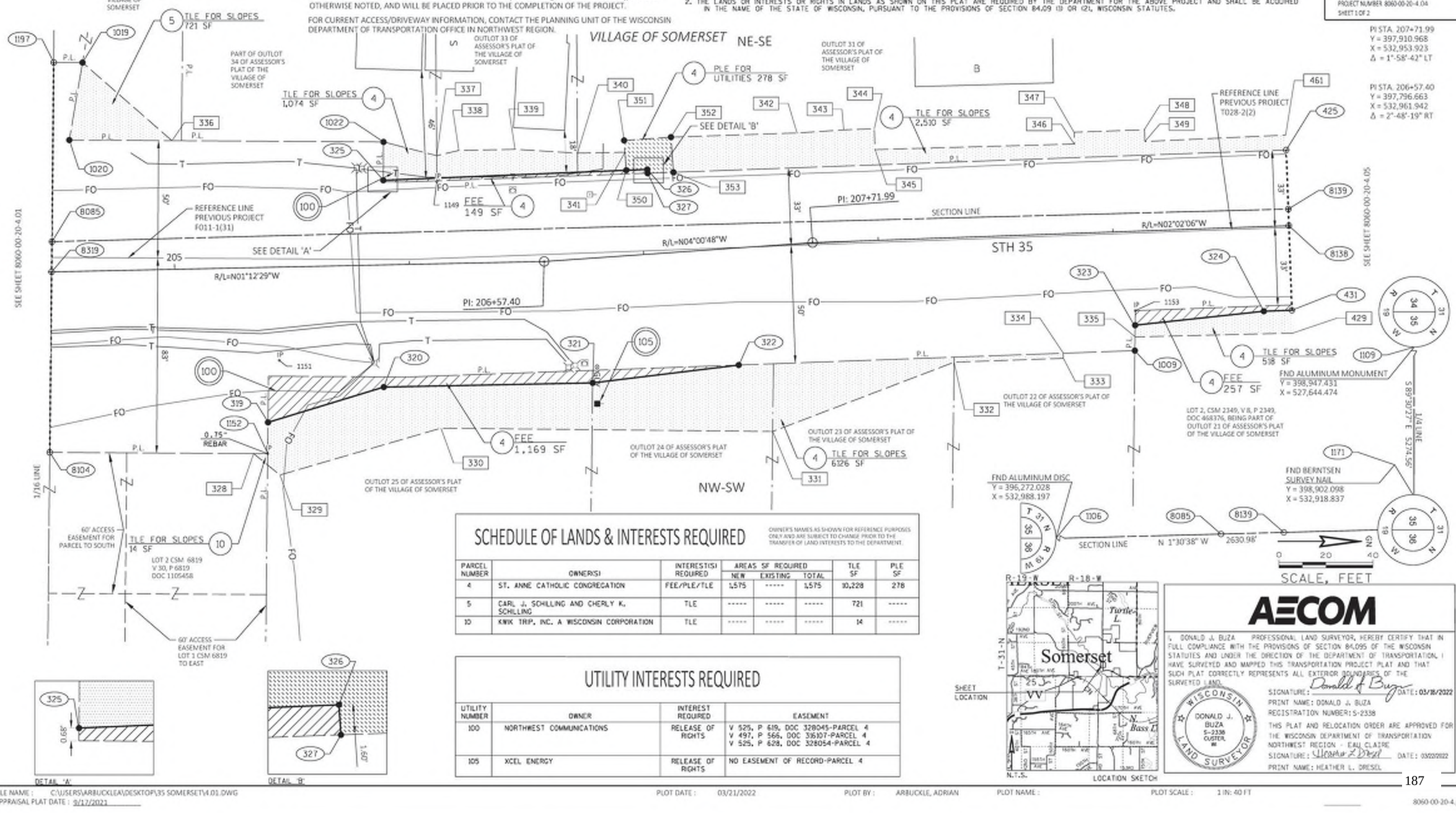
RELOCATION ORDER STH 35 SOMERSET - ST. CROIX FALLS (CTH C TO LASER DRIVE) ST. CROIX COUNTY

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 (3) OR (2), WISCONSIN STATUTES.

1150426
BETH PABST
REGISTER OF DEEDS
ST. CROIX CO., WI
RECEIVED FOR RECORD
03/22/2022 02:42 PM
EXEMPT #
PLAT FEE 25.00
VOLUME: TPP1
PAGES: 231
PAGES: 2
**The above recording information verifies that this document has been electronically recorded & returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8060-00-20-4.04
SHEET 1 OF 2



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES AS 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(S) REQUIRED	AREAS SF REQUIRED NEW	EXISTING	TOTAL	TLE SF	PLE SF
4	ST. ANNE CATHOLIC CONGREGATION	FEE/PLE/TLE	1,575	-----	1,575	10,228	278
5	CARL J. SCHILLING AND CHERLY K. SCHILLING	TLE	-----	-----	-----	721	-----
10	KWIK TRIP, INC. A WISCONSIN CORPORATION	TLE	-----	-----	-----	14	-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED	EASEMENT
100	NORTHWEST COMMUNICATIONS	RELEASE OF RIGHTS	V 529, P 619, DOC 328045-PARCEL 4 V 497, P 566, DOC 316107-PARCEL 4 V 525, P 628, DOC 328054-PARCEL 4
105	XCEL ENERGY	RELEASE OF RIGHTS	NO EASEMENT OF RECORD-PARCEL 4

AECOM

I, DONALD J. BUZA PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Donald J Buza DATE: 03/18/2022
PRINT NAME: DONALD J. BUZA
REGISTRATION NUMBER: S-2338
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - EAU CLAIRE
SIGNATURE: Heather L Dresel DATE: 03/22/2022
PRINT NAME: HEATHER L. DRESEL

WISCONSIN DONALD J. BUZA S-2338 OUTDL LAND SURVEYOR

FILE NAME: C:\USERS\ARBUCKLEA\DESKTOP\35 SOMERSET\1.01.DWG
APPRAISAL PLAT DATE: 9/17/2021
PLOT DATE: 03/21/2022 PLOT BY: ARBUCKLE, ADRIAN PLOT NAME: PLOT SCALE: 1 IN: 40 FT
8060-00-20-4.04

TRANSPORTATION PROJECT PLAT NO: 8060-00-20 - 4.04
EXTENSION SHEET

RELOCATION ORDER STH 35 SOMERSET - ST. CROIX FALLS (CTH C TO LASER DRIVE) ST. CROIX COUNTY

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

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN ST. CROIX COUNTY AS SHEET 2 OF 3 OF DOCUMENT NO. 1148010.

4

4

EXISTING MONUMENTS

POINT	Y	X	DESCRIPTION
1149	397750.964	532927.995	1.25" PIN
1151	397683.870	533004.052	1" IP W/ CAP
1152	397678.954	533043.765	0.75" REBAR
1153	398048.447	532982.865	1.25" PIPE

PLE STATION AND OFFSET TABLE

POINT	STATION	OFFSET
350	206+95.00	36.26'
351	206+95.00	49.00'
352	207+15.00	49.00'
353	207+15.00	34.02'

PLE COURSE TABLE

FROM - TO	BEARING	DISTANCE
325 - 350	N 2°20'51" W	103.53'
350 - 351	S 85°59'04" W	12.74'
351 - 352	N 4°00'48" W	20.00'
352 - 353	N 85°59'12" E	14.97'
353 - 327	S 2°04'49" E	11.01'
326 - 350	S 2°20'51" E	9.00'
353 - 425	N 2°04'49" W	261.14'

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
8139 - 8138	N 87°57'54" E	7.09'
8138 - 431	N 87°57'54" E	36.00'
431 - 324	S 2°02'06" E	12.00'
324 - 323	S 6°11'56" E	55.09'
323 - 1009	S 89°18'04" E	10.82'
1009 - 322	S 2°04'49" E	168.80'
322 - 321	S 6°58'30" E	62.69'
321 - 320	S 1°08'27" E	88.97'
320 - 319	S 16°58'24" E	51.53'
319 - 1152	S 89°24'56" E	13.33'
1152 - 8104	S 0°20'52" W	92.82'
8104 - 8319	N 89°24'34" W	76.84'
8319 - 8085	N 89°24'34" W	12.85'
8085 - 1197	N 89°25'22" W	76.32'
1197 - 1019	N 0°20'52" E	12.28'
1019 - 1020	S 80°18'29" E	33.44'
1020 - 1022	N 0°20'53" E	133.83'
1022 - 325	S 89°39'08" E	16.32'
325 - 326	N 2°20'51" W	112.54'
326 - 327	N 86°05'44" E	1.60'
327 - 425	N 2°04'49" W	272.15'
425 - 8139	N 87°57'54" E	25.16'
1171 - 8139	S 1°30'38" E	788.77'
8139 - 8085	S 1°30'38" E	526.72'
8085 - 1106	S 1°30'38" E	1315.49'

RIGHT OF WAY STATION AND OFFSET TABLE

POINT	STATION	OFFSET
319	205+38.41	66.00'
320	205+88.00	52.00'
321	206+74.40	53.00'
322	207+37.00	49.76'
323	209+08.06	40.00'
324	209+63.01	36.00'
325	205+89.67	36.00'
326	207+04.00	36.00'
327	207+04.00	34.40'
425	209+75.00	32.25'
431	209+75.00	36.00'
1009	209+07.54	50.81'
1019	204+62.65	88.79'
1020	204+56.33	55.95'
1022	205+90.11	52.31'
1152	205+38.00	79.32'
1197	204+50.38	89.12'
8085	204+48.03	12.84'
8104	204+45.21	76.80'
8138	209+75.00	0.00'
8139	209+75.00	7.09'
8319	204+47.62	0.00'

TLE STATION AND OFFSET TABLE

POINT	STATION	OFFSET
328	205+32.79	79.16'
329	205+43.00	88.50'
330	206+12.00	70.00'
331	207+49.43	79.00'
332	208+30.44	53.00'
333	208+77.00	53.00'
334	208+77.00	50.83'
335	209+07.82	45.00'
336	205+00.00	54.76'
337	206+12.59	46.00'
338	206+22.00	48.00'
339	206+46.00	48.00'
340	206+74.78	45.00'
341	206+95.00	44.00'
342	207+69.00	47.00'
343	207+87.00	47.50'
344	208+00.00	47.50'
345	208+00.00	38.63'
346	208+85.00	38.00'
347	208+85.00	43.00'
348	209+15.00	43.00'
349	209+15.00	38.00'
429	209+75.00	45.74'
461	209+75.00	38.59'

PROJECT NUMBER 8060-00-20-4.04
SHEET 2 OF 2

FILE NAME : C:\USERS\ARBUCKLEA\DESKTOP\35 SOMERSET\4.01.DWG
APPRAISAL PLAT DATE : 9/17/2021
PLOT DATE : 03/18/2022
PLOT BY : ARBUCKLE, ADRIAN

TRANSPORTATION PROJECT PLAT NO: 8060-00-20 - 4.05

BEING PART OF OUTLOT 31 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET, LOCATED IN PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 35 AND PART OF LOTS 1 & 2, CSM 2349, V 8, P 2349, DOC 468376, PART OF LOT 1, CSM 6308, V 28, P 6308, DOC 1042409, PART OF LOT 2, CSM 3139, V 11, P 3139, DOC 547795, AND PART OF OUTLOT 16 OF THE ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET IN THE NW 1/4 OF THE SW 1/4 OF SECTION 36, ALL IN T31N, R19W, VILLAGE OF SOMERSET, ST. CROIX COUNTY, WISCONSIN

RELOCATION ORDER STH 35 SOMERSET - ST. CROIX FALLS (CTH C TO LASER DRIVE) ST. CROIX 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.

1150415
BETH PABST
REGISTER OF DEEDS
ST. CROIX CO., WI
RECEIVED FOR RECORD
03/22/2022 11:48 AM
EXEMPT #
PLAT FEE 25.00
VOLUME: TPP1
PAGES: 209
PAGES: 1
**The above recording information verifies that this document has been electronically recorded & returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8060-00-20-4.05
SHEET 1 OF 3

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED	EASEMENT
100	NORTHWEST COMMUNICATIONS	RELEASE OF RIGHTS	V 497, P 556, DOC 316097 PARCELS 6 AND 7

RIGHT OF WAY COURSE TABLE

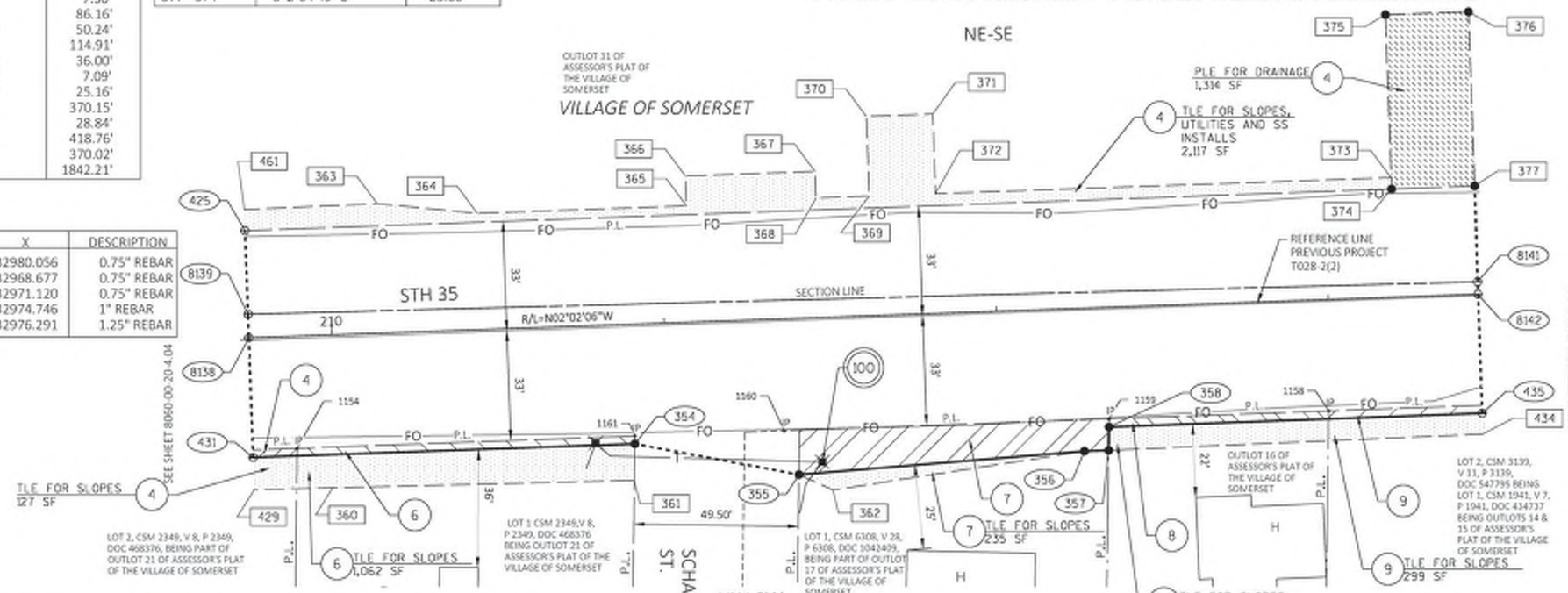
FROM - TO	BEARING	DISTANCE
8141 - 8142	N 88°05'27" E	3.70'
8142 - 435	N 88°05'27" E	35.84'
435 - 358	S 2°07'05" E	112.36'
358 - 357	S 89°14'21" E	7.01'
357 - 356	S 2°02'06" E	7.30'
356 - 355	S 4°41'45" E	86.16'
355 - 354	S 10°36'42" W	50.24'
354 - 431	S 2°02'06" E	114.91'
431 - 8138	S 87°57'54" W	36.00'
8138 - 8139	S 87°57'54" W	7.09'
8139 - 425	S 87°57'54" W	25.16'
425 - 377	N 2°04'49" W	370.15'
377 - 8141	N 88°05'27" E	28.84'
1171 - 8141	S 1°30'38" E	418.76'
8141 - 8139	S 1°30'38" E	370.02'
8139 - 1106	S 1°30'38" E	1842.21'

PLE COURSE TABLE

FROM - TO	BEARING	DISTANCE
425 - 374	N 2°04'49" W	345.15'
374 - 375	S 87°58'00" W	52.48'
375 - 376	N 2°06'04" W	25.00'
376 - 377	N 87°58'03" E	52.49'
377 - 374	S 2°04'49" E	25.00'

EXISTING MONUMENTS

POINT	Y	X	DESCRIPTION
1154	398128.358	532980.056	0.75" REBAR
1158	398438.702	532968.677	0.75" REBAR
1159	398372.639	532971.120	0.75" REBAR
1160	398274.929	532974.746	1" REBAR
1161	398229.999	532976.291	1.25" REBAR



RIGHT OF WAY STATION AND OFFSET TABLE

POINT	STATION	OFFSET
354	210+89.96	36.00'
355	211+38.93	47.00'
356	212+25.00	43.00'
357	212+32.30	43.00'
358	212+32.64	36.00'
425	209+75.00	32.25'
431	209+75.00	36.00'
435	213+45.00	35.84'
8138	209+75.00	0.00'
8139	209+75.00	7.09'
8141	213+45.00	3.70'
8142	213+45.00	0.00'

TLE STATION AND OFFSET TABLE

POINT	STATION	OFFSET
360	209+87.74	45.88'
361	210+89.37	47.00'
362	211+49.00	52.00'
363	210+15.00	39.00'
364	210+45.00	35.00'
365	211+08.00	35.00'
366	211+08.00	43.97'
367	211+47.00	44.00'
368	211+47.00	36.00'
369	211+63.00	36.00'
370	211+63.00	60.00'
371	211+83.00	60.00'
372	211+83.00	36.00'
373	213+20.08	35.96'
429	209+75.00	45.74'
434	213+45.00	42.14'
461	209+75.00	38.59'

PLE STATION AND OFFSET TABLE

POINT	STATION	OFFSET
374	213+20.15	32.52'
375	213+20.15	85.00'
376	213+45.15	85.00'
377	213+45.15	32.54'

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES AS 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(S) REQUIRED	AREAS SF REQUIRED NEW	EXISTING	TOTAL	TLE SF	PLE SF
4	ST. ANNE CATHOLIC CONGREGATION	FEE/TLE/PLE	30	-----	30	2,244	1,314
6	SARLES ESTATES, LLP	FEE/TLE	233	-----	233	1,062	-----
7	DIANE M MARTIN	FEE/TLE	1,049	-----	1,049	235	-----
8	MICHAEL MEISSNER	FEE/TLE	161	-----	161	449	-----
9	SCOTT ZAHNOW & SHARI ZAHNOW	FEE/TLE	110	-----	110	299	-----

NOTES:

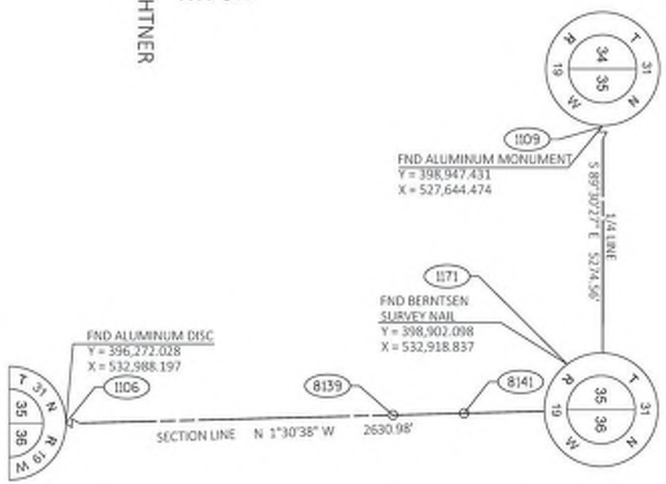
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), ST. CROIX COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

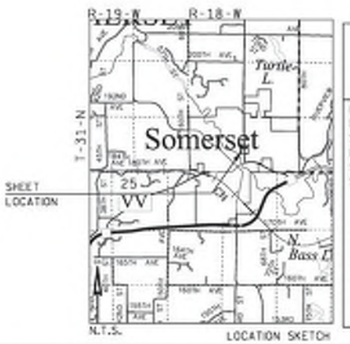
FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN ST. CROIX COUNTY AS SHEET 2 OF 3 OF DOCUMENT NO. 1148010.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT OF WAY FOR STH 35 IS ESTABLISHED FROM PLAT OF RIGHT OF WAY T028-2(2), CSM 2349, CSM 3139, CSM 6308 AND ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET. EXISTING RIGHT OF WAY FOR SCHACHTNER STREET IS ESTABLISHED FROM CSM 2349 AND CSM 6308.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾"X24" 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 NORTHWEST REGION.





0 20 40
SCALE, FEET

AECOM

I, DONALD J. BUZA PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Donald J Buza DATE: 03/18/2022
PRINT NAME: DONALD J. BUZA
REGISTRATION NUMBER: S-2338

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - EAU CLAIRE
SIGNATURE: Heather L Dresel DATE: 03/21/2022
PRINT NAME: HEATHER L. DRESEL

WISCONSIN DONALD J. BUZA S-2338 EUSTIS LAND SURVEYOR

FILE NAME: C:\USERS\ARBUCKLEA\DESKTOP\35 SOMERSET\V4.01.DWG
APPRAISAL PLAT DATE: 9/17/2021
PLOT DATE: 03/18/2022 PLOT BY: ARBUCKLE, ADRIAN PLOT NAME: PLOT SCALE: 1 IN: 40 FT
8060-00-20-4.05

TRANSPORTATION PROJECT PLAT NO: 8060-00-20 - 4.06

BEING PART OF LOTS 1 AND 2, CSM 2555, V 9, P 2555, DOC 490270, PART OF OUTLOTS 26, 27, 29, 30 AND 31 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET, LOCATED IN PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 35 AND PART OF LOTS 1 AND 2, CSM 3139, V 11, P 3139, DOC 547795, PART OF OUTLOTS 12 & 13 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET, LOCATED IN PART OF THE NW 1/4 OF THE SW 1/4 OF SECTION 36, ALL IN T31N, R19W, VILLAGE OF SOMERSET, ST. CROIX COUNTY, WISCONSIN

RELOCATION ORDER STH 35 SOMERSET - ST. CROIX FALLS (CTH C TO LASER DRIVE) ST. CROIX 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:

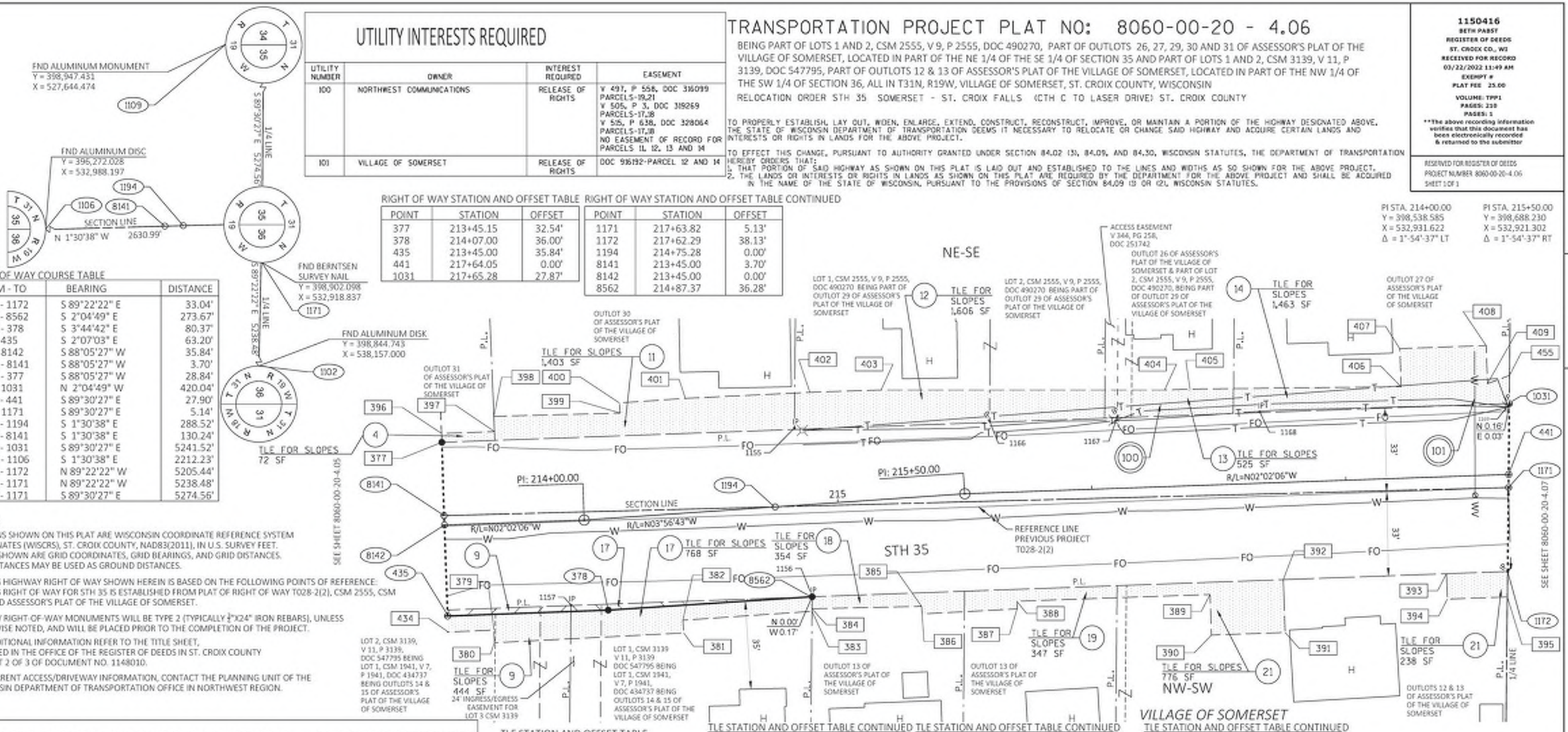
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (3) OR (2), WISCONSIN STATUTES.

1150416
BETH PABST
REGISTER OF DEEDS
ST. CROIX CO., WI
RECEIVED FOR RECORD
03/22/2022 11:49 AM
EXEMPT #
PLAT FEE 25.00
VOLUME: TPP1
PAGES: 210
PAGES: 1
**The above recording information verifies that this document has been electronically recorded & returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8060-00-20-4.06
SHEET 1 OF 1

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED	EASEMENT
100	NORTHWEST COMMUNICATIONS	RELEASE OF RIGHTS	V 497, P 558, DOC 316099 PARCELS-19,21 V 505, P 3, DOC 319269 PARCELS-17,18 V 515, P 638, DOC 328064 PARCELS-17,18 NO EASEMENT OF RECORD FOR PARCELS 11, 12, 13 AND 14
101	VILLAGE OF SOMERSET	RELEASE OF RIGHTS	DOC 516192-PARCEL 12 AND 14



RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
1171 - 1172	S 89°22'22" E	33.04'
1172 - 8562	S 2°04'49" E	273.67'
8562 - 378	S 3°44'42" E	80.37'
378 - 435	S 2°07'03" E	63.20'
435 - 8142	S 88°05'27" W	35.84'
8142 - 8141	S 88°05'27" W	3.70'
8141 - 377	S 88°05'27" W	28.84'
377 - 1031	N 2°04'49" W	420.04'
1031 - 441	S 89°30'27" E	27.90'
441 - 1171	S 89°30'27" E	5.14'
1171 - 1194	S 1°30'38" E	288.52'
1194 - 8141	S 1°30'38" E	130.24'
1109 - 1031	S 89°30'27" E	5241.52'
8141 - 1106	S 1°30'38" E	2212.23'
1102 - 1172	N 89°22'22" W	5205.44'
1102 - 1171	N 89°22'22" W	5238.48'
1109 - 1171	S 89°30'27" E	5274.56'

RIGHT OF WAY STATION AND OFFSET TABLE

POINT	STATION	OFFSET
377	213+45.15	32.54'
378	214+07.00	36.00'
435	213+45.00	35.84'
441	217+64.05	0.00'
1031	217+65.28	27.87'

RIGHT OF WAY STATION AND OFFSET TABLE CONTINUED

POINT	STATION	OFFSET
1171	217+63.82	5.13'
1172	217+62.29	38.13'
1194	214+75.28	0.00'
8141	213+45.00	3.70'
8142	213+45.00	0.00'
8562	214+87.37	36.28'

NOTES:

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

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT OF WAY FOR STH 35 IS ESTABLISHED FROM PLAT OF RIGHT OF WAY T028-2(2), CSM 2555, CSM 3139 AND ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾"X24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN ST. CROIX COUNTY AS SHEET 2 OF 3 OF DOCUMENT NO. 1148010.

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

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES AS 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(S) REQUIRED	AREAS SF REQUIRED NEW	EXISTING	TOTAL	TLE SF	PLE SF
4	ST. ANNE CATHOLIC CONGREGATION	TLE	-----	-----	-----	72	-----
9	SCOTT ZAHNOW & SHARI ZAHNOW	FEE/TLE	115	-----	115	444	-----
11	MONDOR COMPANIES LLC	TLE	-----	-----	-----	1,403	-----
12	SUSAN TYLER	TLE	-----	-----	-----	1,606	-----
13	DENNIS GLEASON	TLE	-----	-----	-----	525	-----
14	MINNESOTA BUILT HARRIS LLC	TLE	-----	-----	-----	1,463	-----
17	DEBORAH M ZAHNOW CARDINAL	FEE/TLE	128	-----	128	768	-----
18	MARVIN J RASKA	TLE	-----	-----	-----	354	-----
19	LANCE M JOHNSON & MEKAYLA M JOHNSON	TLE	-----	-----	-----	347	-----
21	REBECCA CAMPEAU	TLE	-----	-----	-----	1,014	-----

TLE STATION AND OFFSET TABLE

POINT	STATION	OFFSET
379	213+63.00	42.00'
380	213+63.00	47.00'
381	214+36.00	47.00'
382	214+36.00	42.00'
383	214+86.92	42.00'
384	214+87.00	41.00
385	215+30.00	43.00'
386	215+30.00	46.00'
387	215+69.00	46.00'
388	215+69.00	43.00'
389	216+45.00	43.00'
390	216+45.00	59.00'
391	216+74.00	59.00'
392	216+74.00	38.20'
393	217+38.22	38.15'
394	217+38.22	48.15'
395	217+61.82	48.13'
396	213+45.15	36.00'
397	213+65.99	36.00'
398	213+65.96	42.00'
399	214+17.00	41.00'
400	214+17.00	45.00'

TLE STATION AND OFFSET TABLE CONTINUED

POINT	STATION	OFFSET
401	214+43.00	45.00'
402	214+92.00	44.00'
403	215+20.00	43.00'
404	216+30.00	38.00'
405	216+40.00	38.00'
406	217+23.00	36.00'

TLE STATION AND OFFSET TABLE CONTINUED

POINT	STATION	OFFSET
407	217+23.00	51.00'
408	217+57.00	51.00'
409	217+57.00	36.00'

TLE STATION AND OFFSET TABLE CONTINUED

POINT	STATION	OFFSET
434	213+45.00	42.14'
455	217+65.77	38.92'

EXISTING MONUMENTS

POINT	Y	X	DESCRIPTION
1155	398621.283	532895.435	1" PIPE
1156	398628.245	532961.639	0.75" REBAR
1157	398533.406	532965.088	0.75" REBAR
1166	398697.943	532892.515	1" PIPE
1167	398748.242	532891.078	1" PIPE
1168	398804.280	532889.074	1" PIPE
1169	398902.540	532885.838	0.75" REBAR
1172	398901.736	532951.872	1" PIPE

0 20 40
SCALE, FEET

AECOM

I, DONALD J. BUZA PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Donald J Buza DATE: 03/18/2022
PRINT NAME: DONALD J. BUZA
REGISTRATION NUMBER: S-2338

WISCONSIN DONALD J. BUZA S-2338 OUSTER, WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - EAU CLAIRE
SIGNATURE: Heather L Dresel DATE: 03/21/2022
PRINT NAME: HEATHER L. DRESEL

FILE NAME : C:\USERS\ARBUCKLEA\DESKTOP\35 SOMERSET\4.01.DWG
APPRAISAL PLAT DATE : 9/17/2021
PLOT DATE : 03/18/2022
PLOT BY : ARBUCKLE, ADRIAN
PLOT NAME :
PLOT SCALE : 1 IN: 40 FT
8060-00-20-4.06

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES AS 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(S) REQUIRED	AREAS SF REQUIRED			TLE SF	PLE SF
			NEW	EXISTING	TOTAL		
11	MONDOR COMPANIES LLC	TLE	-----	-----	-----	400	-----
16	SCOTT ZAHNOW & SHARI ZAHNOW	TLE	-----	-----	-----	334	-----
22	ALVIN B PETERSON III & CARRIE JO M PETERSON	TLE	-----	-----	-----	1,067	-----
23	STAN ANDERSON, VENDOR EMILIO RODRIGUEZ, PURCHASER	TLE	-----	-----	-----	665	-----
24	WB LLC	TLE	-----	-----	-----	448	-----

SCALE, FEET
0 20 40

TRANSPORTATION PROJECT PLAT NO: 8060-00-20 - 4.07

BEING PART OF LOTS 2 & 3, CSM 2894, V 10, P 2894, DOC 526798 BEING PART OF OUTLOT 6 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET, LOCATED IN PART OF THE SE 1/4 OF THE NE 1/4 OF SECTION 35, PARTS OF OUTLOTS 4 & 5 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET LOCATED IN PART OF THE SW 1/4 OF THE NW 1/4 OF SECTION 36, ALL IN T31N, R19W, VILLAGE OF SOMERSET, ST. CROIX COUNTY, WISCONSIN

RELOCATION ORDER STH 35 SOMERSET - ST. CROIX FALLS (CTH C TO LASER DRIVE) ST. CROIX 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.

1150427
BETH PABST
REGISTER OF DEEDS
ST. CROIX CO., WI
RECEIVED FOR RECORD
03/22/2022 02:43 PM
EXEMPT #
PLAT FEE 25.00
VOLUME: TPP1
PAGES: 212
PAGES: 1
**The above recording information verifies that this document has been electronically recorded & returned to the submitter

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8060-00-20-4.07
SHEET 1 OF 1

PI STA. 219+62.00
Y = 399,099.970
X = 532,906.672
Δ = 2°-45'-11" RT

PI STA. 221+85.00
Y = 399,322.957
X = 532,909.466
Δ = 1°-17'-11" LT

FND ALUMINUM MONUMENT
Y = 398,947.431
X = 527,644.474

LOT 3 CSM 2894, V 10, P 2894, DOC 526798, BEING PART OUTLOT 6 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET

VILLAGE OF SOMERSET

LOT 2, CSM 2894, V 10, P 2894, DOC 526798, BEING PART OUTLOT 6 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET

LOT 1, CSM 2894, V 10, P 2894, BEING PART OUTLOT 6 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET

CSM 6515 DOC 1066745, OUTLOT 6 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET

SE-NE

SW-NW

PART OF OUTLOT 4 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET

OUTLOT 5 OF ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET

TLE FOR SLOPES 1,067 SF

TLE FOR SLOPES 334 SF

TLE FOR SLOPES 165 SF

TLE FOR SLOPES 236 SF

TLE FOR SLOPES 665 SF

TLE FOR SLOPES 448 SF

PI: 219+62.00

PI: 221+85.00

R/L=N02°02'06"W

R/L=N00°43'05"E

R/L=N00°34'06"W

220

SECTION LINE

REFERENCE LINE PREVIOUS PROJECT T028-2(2)

STH 35

S 0.82' E 0.75'

N 0.16' E 0.03'

S 89°30'27" E 5274.56'

1/4 LINE

S 89°22'22" E 5238.83'

1/4 LINE

FND BERNTSEN SURVEY NAIL
Y = 398,902.098
X = 532,918.837

FND ALUMINUM DISC
Y = 398,844.743
X = 538,157.000

FND BERNTSEN SURVEY NAIL
Y = 401,538.333
X = 532,873.022

SEE DETAIL 'A'

DETAIL 'A'

EXISTING MONUMENTS

POINT	Y	X	DESCRIPTION
1169	398902.540	532885.838	0.75" REBAR
1170	398992.452	532883.043	0.75" REBAR
1172	398901.736	532951.872	1" PIPE
1173	398960.408	532951.562	0.5" REBAR
1174	399166.974	532948.645	LEANING 1" PIPE
1176	399294.917	533017.748	1" PIPE
1177	399360.694	533016.640	1" PIPE
1178	399292.719	532846.455	1" PIPE
1179	399057.004	532848.920	0.75" REBAR

RIGHT OF WAY STATION AND OFFSET TABLE

POINT	STATION	OFFSET
441	217+64.05	0.00'
457	222+27.14	0.00'
458	222+29.04	1.73'
1025	219+21.99	27.99'
1026	219+21.96	59.99'
1027	219+64.92	60.24'
1031	217+65.28	27.87'
1036	222+65.01	34.46'
1171	217+63.82	5.13'
1172	217+62.29	38.13'
8315	221+53.98	64.57'
9036	217+63.53	38.13'

TLE STATION AND OFFSET TABLE

POINT	STATION	OFFSET
395	217+61.82	48.13'
410	217+75.33	48.04'
411	217+80.00	42.00'
412	218+19.92	46.00'
413	218+44.92	46.03'
414	218+45.04	39.61'
415	219+32.00	41.20'
416	219+32.00	47.00'
417	219+65.00	47.00'
418	220+70.06	51.47'
419	217+75.00	42.00'
420	218+27.00	35.00'
421	218+27.00	45.00'
422	218+48.00	45.00'
423	218+48.00	33.00'
424	219+21.98	32.99'
455	217+65.77	38.92'
8547	220+70.07	38.51'
8553	218+20.24	39.16'

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
1171 - 441	N 89°30'27" W	5.14'
441 - 1031	N 89°30'27" W	27.90'
1031 - 1025	N 2°04'49" W	156.71'
1025 - 1026	S 87°55'11" W	32.00'
1026 - 1027	N 2°04'49" W	45.84'
1027 - 8315	N 0°35'36" W	189.11'
8315 - 457	N 41°43'57" E	96.95'
457 - 458	N 41°43'57" E	2.57'
458 - 1036	N 41°43'57" E	48.64'
1036 - 9036	S 0°59'44" E	500.38'
9036 - 1172	S 2°04'49" E	1.25'
1172 - 1171	N 89°22'22" W	33.04'
1100 - 1171	S 0°59'44" E	2636.63'
1171 - 458	N 0°59'44" W	464.97'
458 - 1100	N 0°59'44" W	2171.66'
1102 - 1172	N 89°22'22" W	5206.44'
1102 - 1171	N 89°22'22" W	5238.48'
1109 - 1031	S 89°30'27" E	5241.52'
1109 - 1171	S 89°30'27" E	5274.56'

NOTES:
ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾"X24" 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 NORTHWEST REGION.

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

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN ST. CROIX COUNTY AS SHEET 2 OF 3 OF DOCUMENT NO. 1148010.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT OF WAY FOR STH 35 IS ESTABLISHED FROM PLAT OF RIGHT OF WAY T028-2(2), CSM 2894, CSM 6515, AND ASSESSOR'S PLAT OF THE VILLAGE OF SOMERSET.

SHEET LOCATION

LOCATION SKETCH

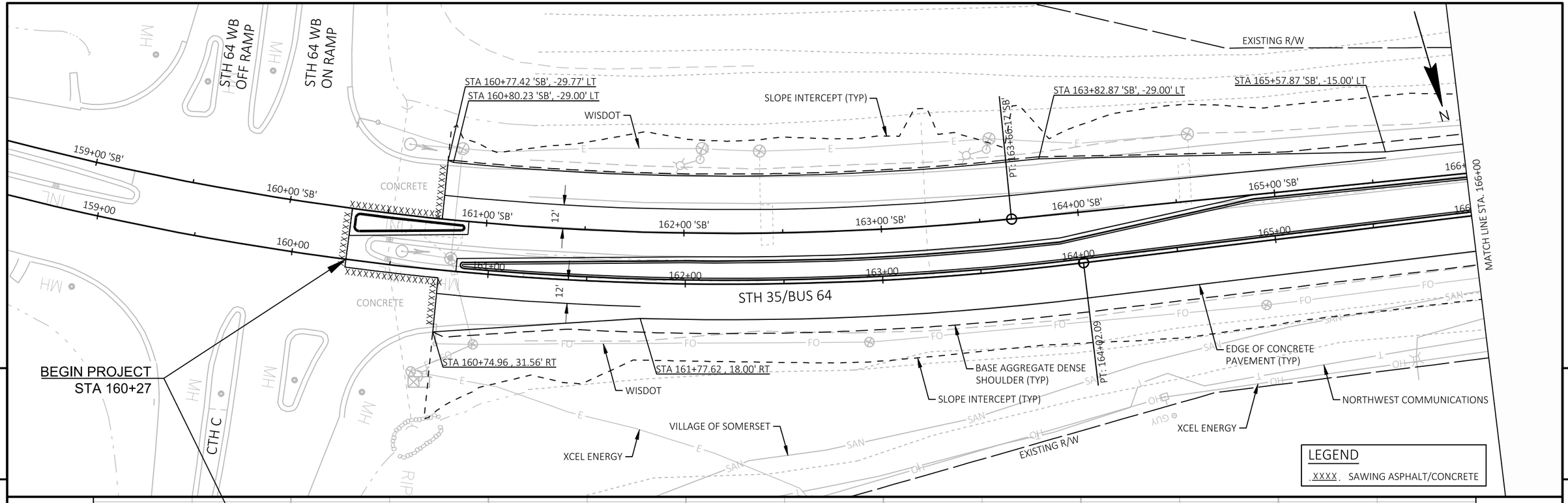
AECOM

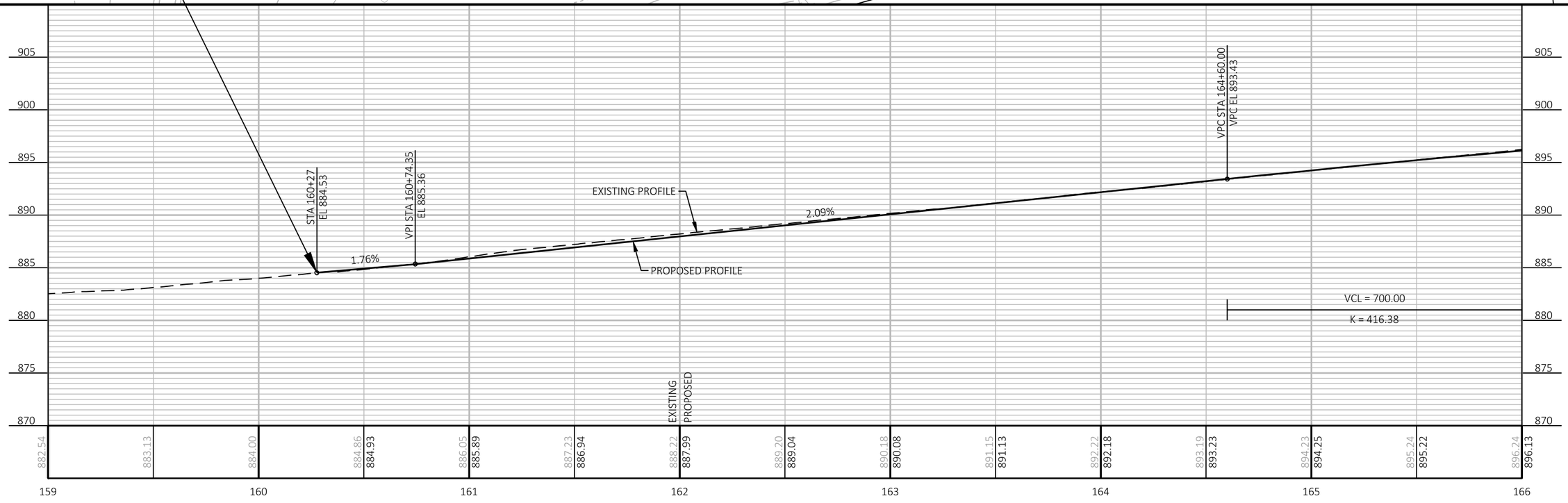
I, DONALD J. BUZA, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Donald J Buza DATE: 03/21/2022
PRINT NAME: DONALD J. BUZA
REGISTRATION NUMBER: S-2338

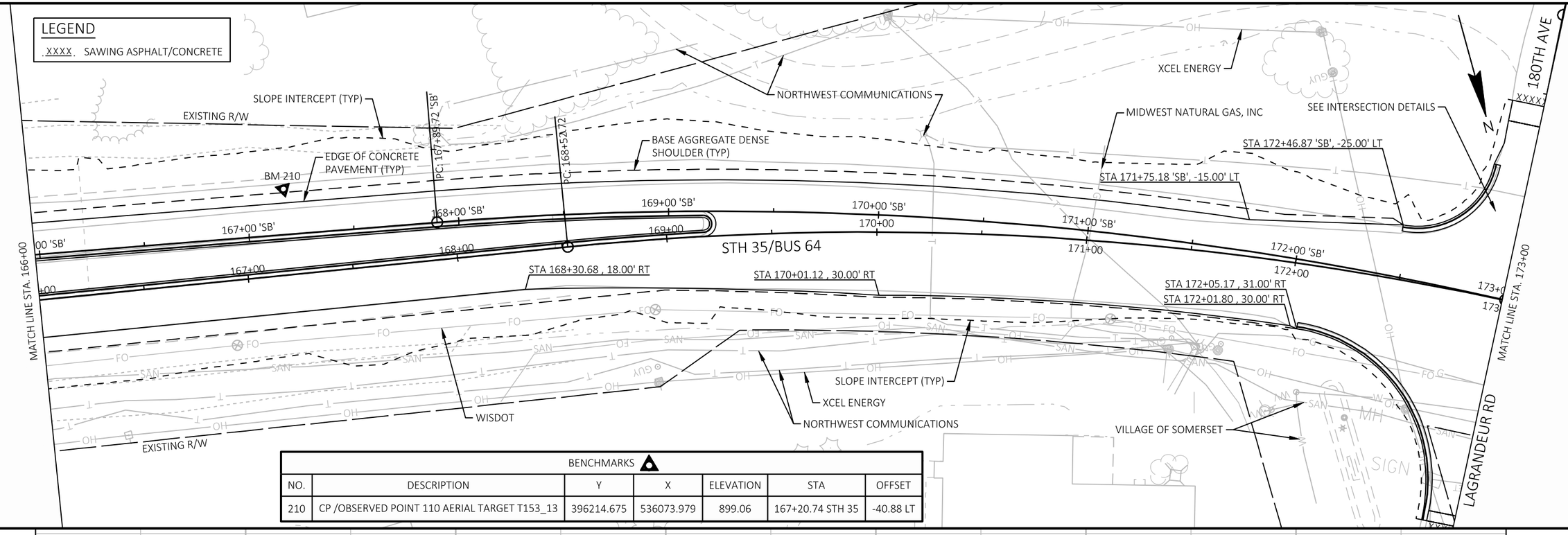
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
NORTHWEST REGION - EAU CLAIRE
SIGNATURE: Heather L Dresel DATE: 03/22/2022
PRINT NAME: HEATHER L. DRESEL

FILE NAME : C:\USERS\ARBUCKLEA\DESKTOP\35 SOMERSET\4.01.DWG
APPRAISAL PLAT DATE : 9/17/2021
PLOT DATE : 03/21/2022
PLOT BY : ARBUCKLE, ADRIAN
PLOT NAME :
PLOT SCALE : 1 IN: 40 FT

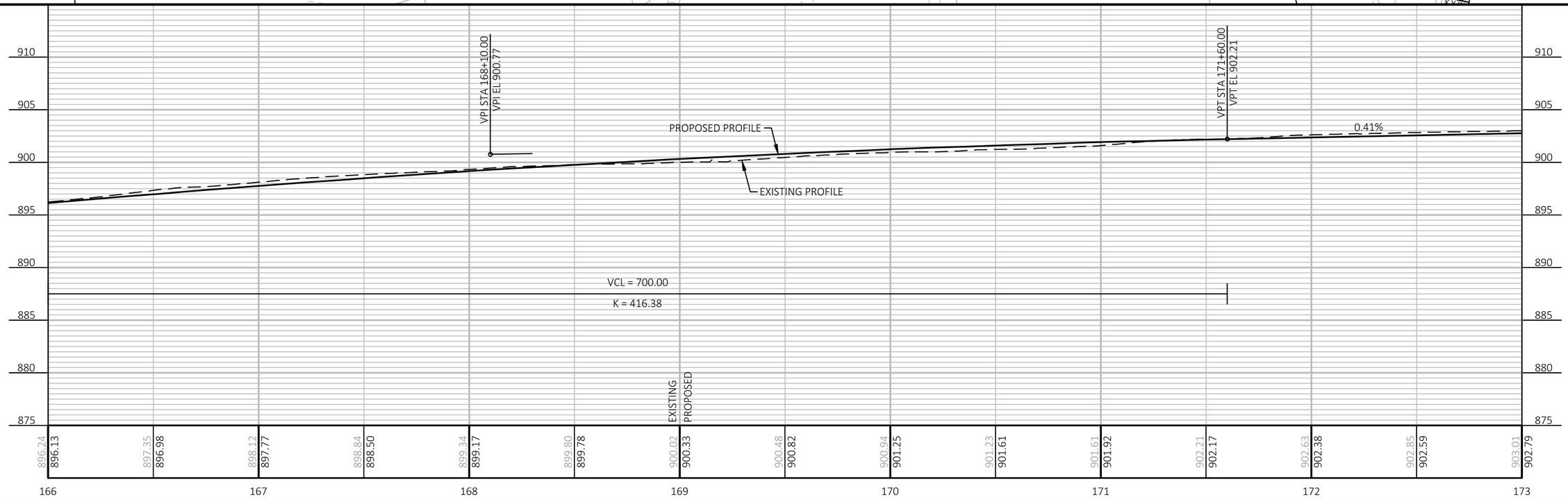




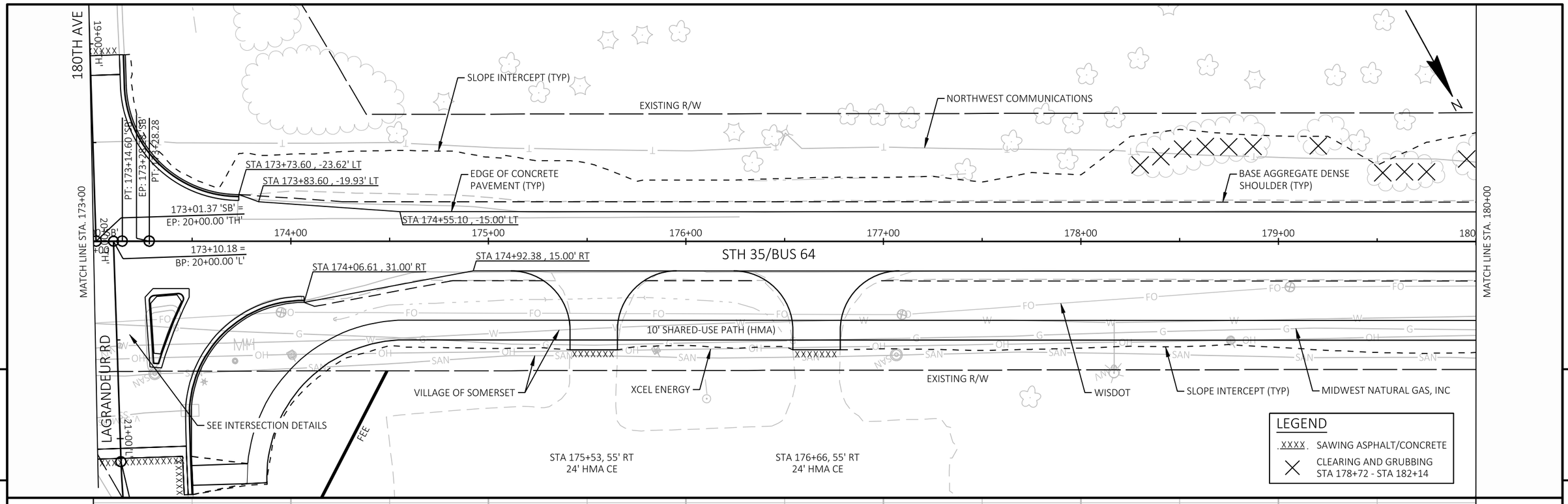
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35-BUS 64	SHEET 192	E



BENCHMARKS						
NO.	DESCRIPTION	Y	X	ELEVATION	STA	OFFSET
210	CP /OBSERVED POINT 110 AERIAL TARGET T153_13	396214.675	536073.979	899.06	167+20.74 STH 35	-40.88 LT



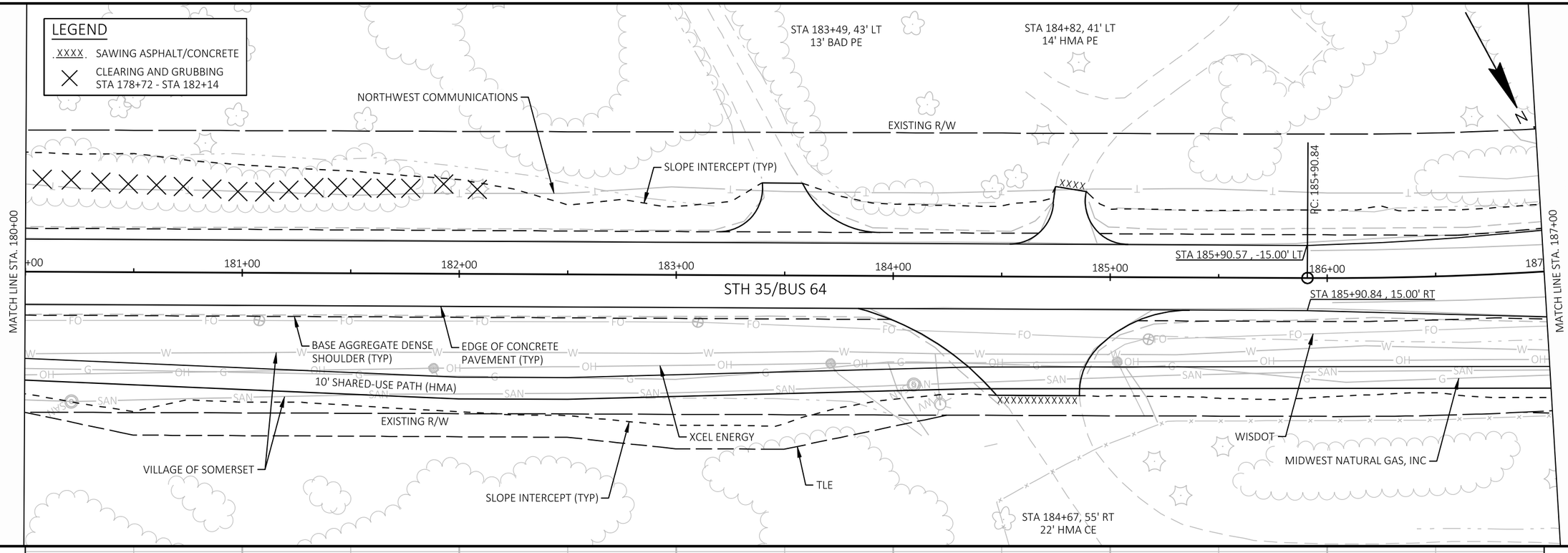
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35-BUS 64	SHEET 193	E

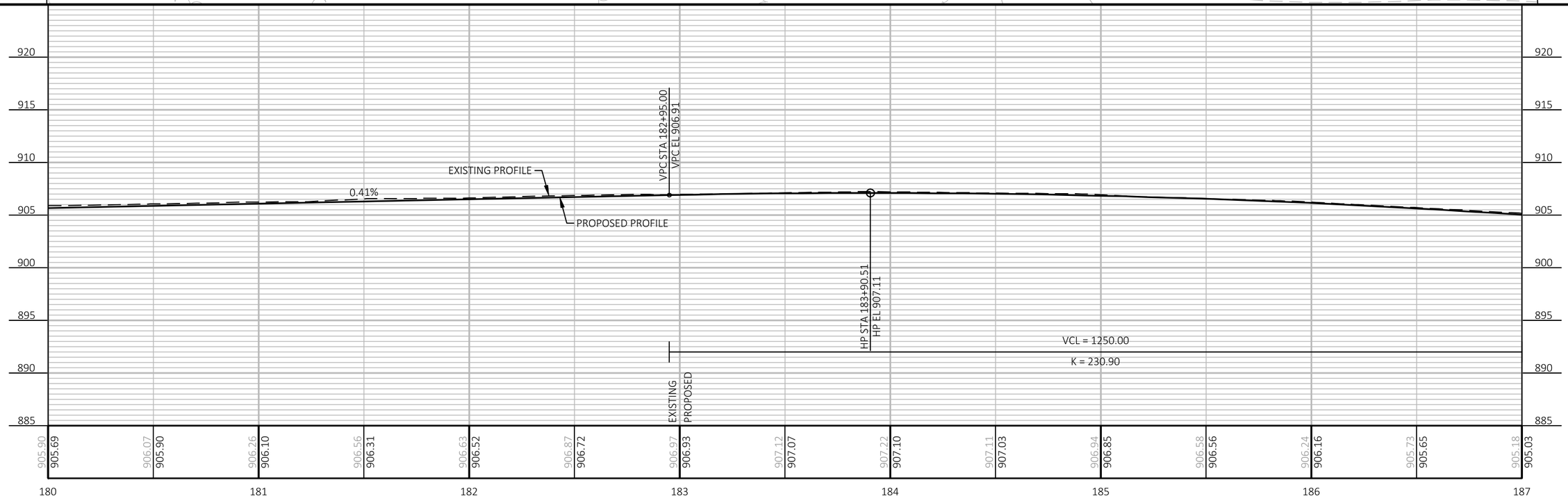


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35-BUS 64	SHEET 194 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050103

PLOT DATE : 10/31/2022 8:25 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT





PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35-BUS 64	SHEET 195	E

LEGEND

XXXX SAWING ASPHALT/CONCRETE

NORTHWEST COMMUNICATIONS

EXISTING R/W

N

MATCH LINE STA. 187+00

MATCH LINE STA. 194+00

STA 187+64.56 , -21.40' LT

STA 189+16.95 , -27.00' LT

SLOPE INTERCEPT (TYP)

STA 193+33.89 , -27.00' LT

STA 187+50.10 , 26.00' RT

STH 35/BUS 64

STA 190+64.30 , 23.25' RT

STA 190+58.85 , 26.00' RT

STA 191+28.47 , 15.00' RT

TLE

EXISTING FENCE (TO REMAIN)

EXISTING R/W

MIDWEST NATURAL GAS, INC

WISDOT

SLOPE INTERCEPT (TYP)

10' SHARED-USE PATH (HMA)

XXXXXXXXXX

STA 190+20, 83' RT
34' CONCRETE CE

VILLAGE OF SOMERSET

BASE AGGREGATE DENSE SHOULDER (TYP)

EDGE OF CONCRETE PAVEMENT (TYP)

EXISTING SHARED-USE PATH

5

5

VPI STA 189+20.00
VPI EL 909.49

PROPOSED PROFILE

EXISTING PROFILE

VCL = 1250.00

K = 230.90

EXISTING
PROPOSED

905.18	905.03	904.41	904.31	903.50	903.48	902.59	902.53	901.57	901.49	900.31	900.33	898.97	899.06	897.54	897.69	896.04	896.21	894.45	894.62	892.71	892.92	890.85	891.11	888.77	889.19	886.58	887.17	884.52	885.04
187		188		189									190						191				192				193				194

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35-BUS 64	SHEET 196 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050105

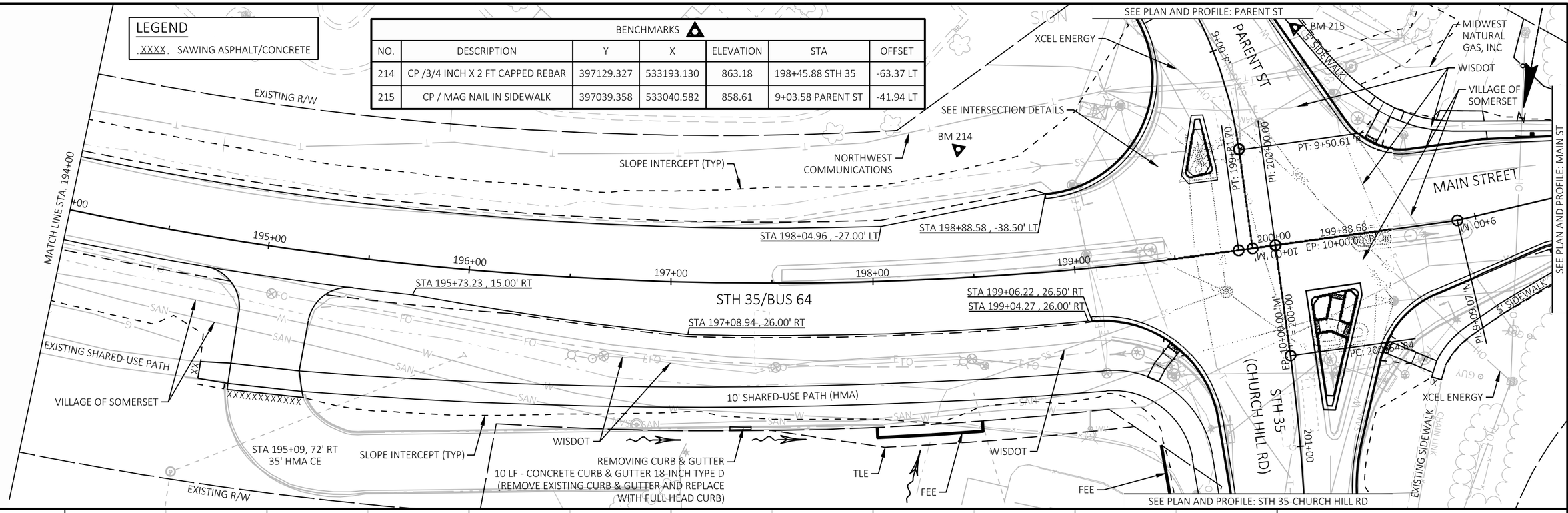
PLOT DATE : 10/31/2022 11:49 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

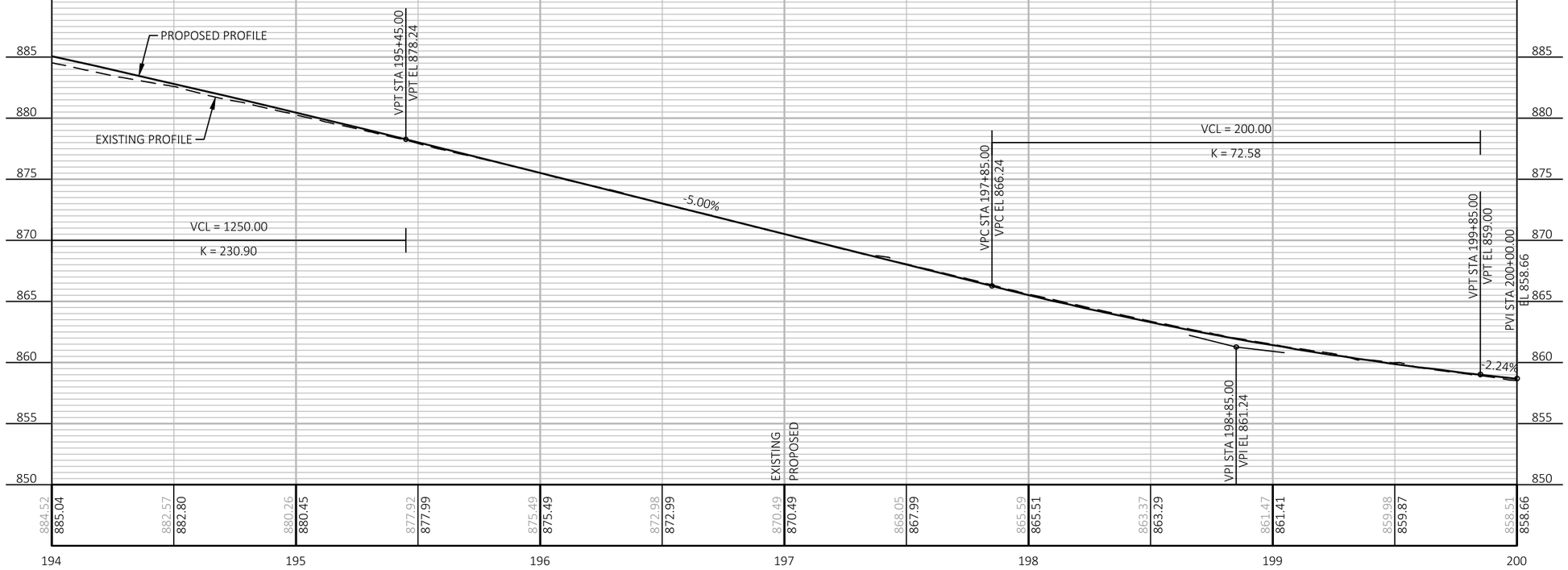
WISDOT/CADDS SHEET 44

LEGEND

XXXX SAWING ASPHALT/CONCRETE

BENCHMARKS						
NO.	DESCRIPTION	Y	X	ELEVATION	STA	OFFSET
214	CP /3/4 INCH X 2 FT CAPPED REBAR	397129.327	533193.130	863.18	198+45.88 STH 35	-63.37 LT
215	CP / MAG NAIL IN SIDEWALK	397039.358	533040.582	858.61	9+03.58 PARENT ST	-41.94 LT





PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35-BUS 64	SHEET 197 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050106

PLOT DATE : 11/1/2022 8:04 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

SEE PLAN AND PROFILE: MAIN ST

SEE PLAN AND PROFILE: PARENT ST

SEE PLAN AND PROFILE: STH 35-BUS 64

LEGEND

XXXX SAWING ASPHALT/CONCRETE

REMOVING ASPHALTIC SURFACE

MAIN STREET

PARENT ST

STH 35
(CHURCH HILL RD)

5' SIDEWALK

PI: 9+09.07 'M'

9+00 'M'

SEE INTERSECTION DETAILS

EXISTING SIDEWALK (TO REMAIN)

BM 216

VILLAGE OF SOMERSET

PC: 200+88.98

PT: 9+50.91

199+88.98 'M'

EP: 10+00.00 'M'

200+00 = EP: 10+00.00 'M'

PI: 200+00.00

PT: 199+81.70

200+00

201+00

202+00

203+00

204+00

205+00

206

SLOPE INTERCEPT (TYP)

XCEL ENERGY

EXISTING R/W

PT: 203+08.06

STA 203+90, 43' LT
REMOVE 19' PE

STA 204+75, 58' LT
11' HMA PE

STA 205+93, 47' LT
9' BAD PE

TLE

GRUBBING

5' SIDEWALK

REMOVE AND SALVAGE ROADWAY MARKERS AND CURB

SEE CURB RAMP DETAILS (TYP)

BP: 10+00.00 'KT'

MATCH LINE STA. 206+00

EXISTING R/W

FEE

WISDOT

MIDWEST NATURAL GAS, INC

TLE

NORTHWEST COMMUNICATIONS

10' SHARED-USE PATH (HMA)

SLOPE INTERCEPT (TYP)

SEE INTERSECTION DETAILS

KWIK TRIP ENTRANCE

STA 205+03, 72' RT
32' CONC CE

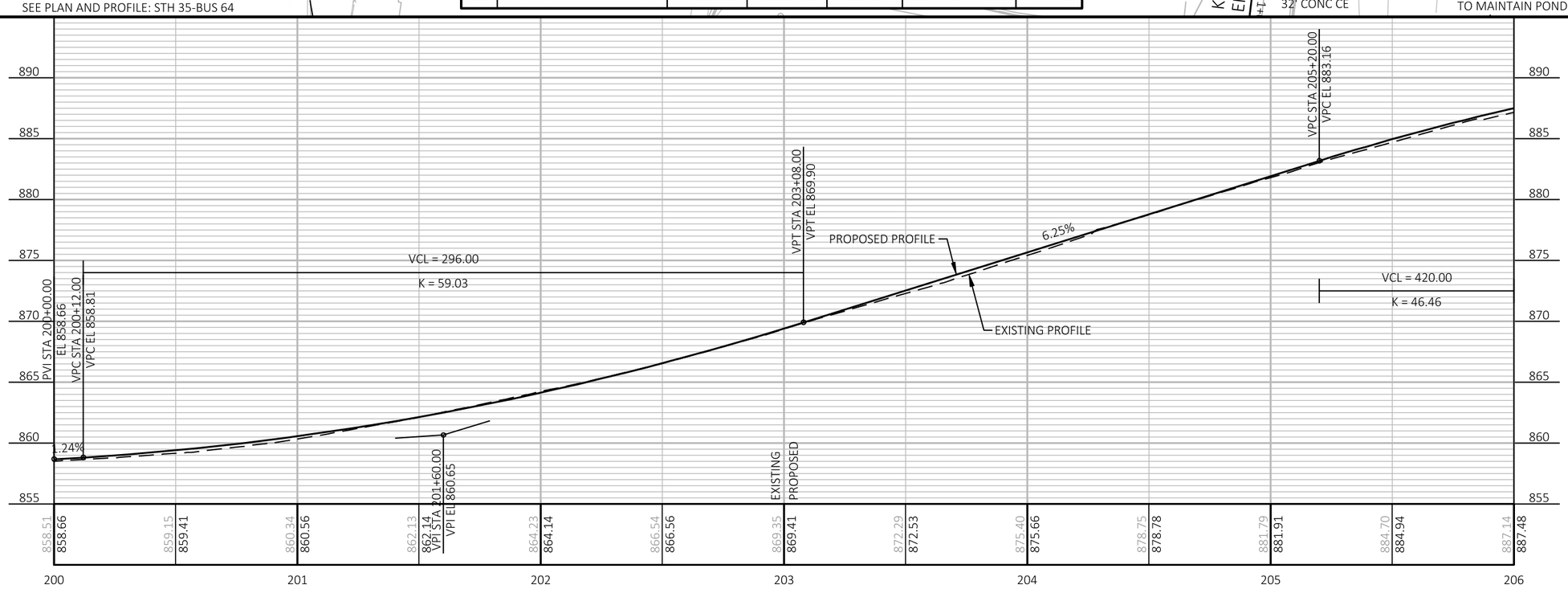
FEE

TLE

CONSTRUCT BERM TO MAINTAIN POND

BENCHMARKS

NO.	DESCRIPTION	Y	X	ELEVATION	STA	OFFSET
216	CP / MAG NAIL IN SIDEWALK	397288.903	532939.087	862.03	201+57.97 STH 35	-47.78 LT

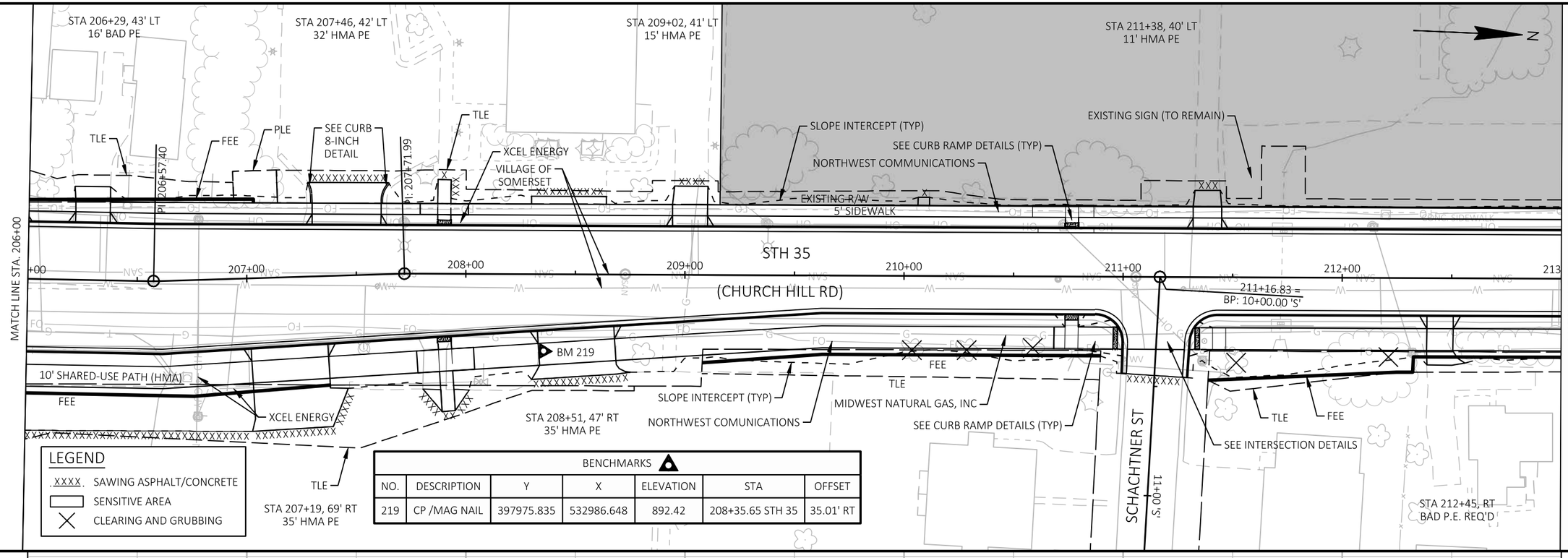


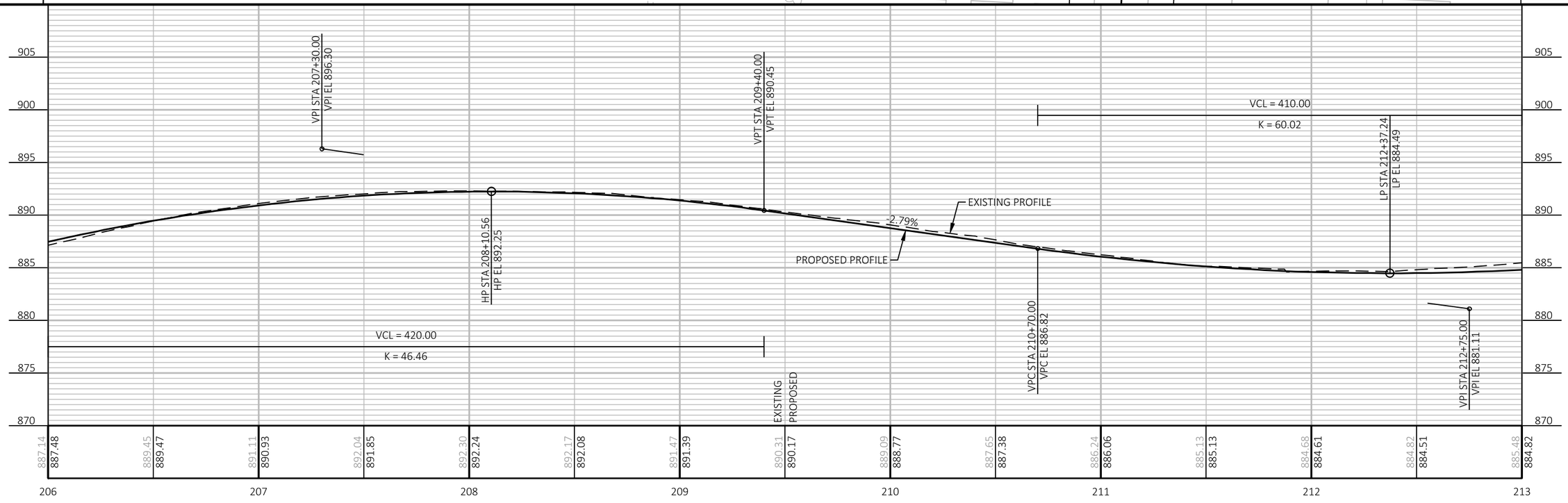
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35-CHURCH HILL RD	SHEET 198 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050107

PLOT DATE : 11/1/2022 8:05 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

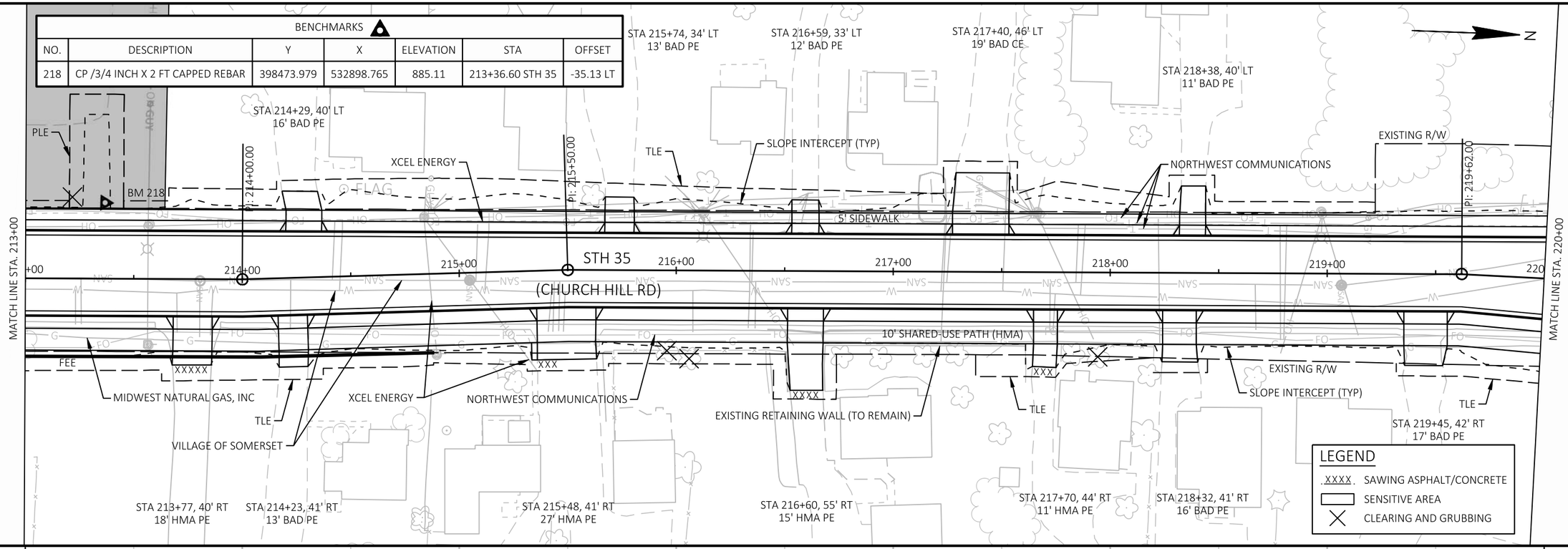
WISDOT/CADDS SHEET 44

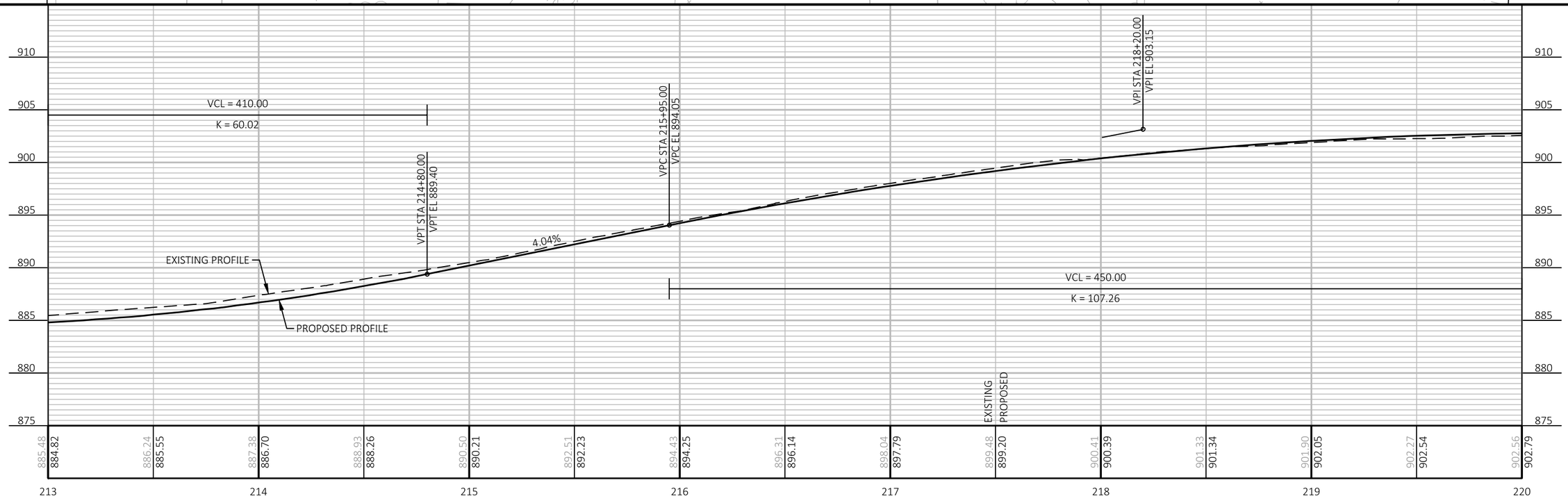




PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35-CHURCH HILL RD	SHEET 199	E

BENCHMARKS						
NO.	DESCRIPTION	Y	X	ELEVATION	STA	OFFSET
218	CP /3/4 INCH X 2 FT CAPPED REBAR	398473.979	532898.765	885.11	213+36.60 STH 35	-35.13 LT





PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35-CHURCH HILL RD	SHEET 200	E

STA 220+38, 38' LT
25' HMA CE

N

NORTHWEST COMMUNICATIONS

VILLAGE OF SOMERSET

XCEL ENERGY

EXISTING R/W

SEE CURB RAMP DETAILS (TYP)

SLOPE INTERCEPT (TYP)

FLASHING SPEED SIGN
REMOVE AND SALVAGE

XXXXXXX

XXXXXXXX

PI: 221+85.00

5' SIDEWALK

MATCH LINE STA. 220+00

STH 35

+00 | 221+00 | 222+00 | 223+00 | 224+00 | 225+00 | 226+00 | 227+00

CONCRETE PAVEMENT | ASPHALTIC SURFACE

(CHURCH HILL RD)

10' SHARED-USE PATH (HMA)

TLE

SLOPE INTERCEPT (TYP)

XCEL ENERGY

NORTHWEST COMMUNICATIONS

EXISTING R/W

MIDWEST NATURAL GAS, INC

EXISTING SHARED-USE PATH

LASER DR

EXISTING R/W

5

5

LEGEND

.XXXX. SAWING ASPHALT/CONCRETE

END PROJECT
STA 222+31

915
910
905
900
895
890
885
880

VPT STA 220+45.00
VPT EL 902.81

PROPOSED PROFILE

-0.15%

PVI STA 221+85.00
EL 902.60

0.19%

PVI STA 222+30.81
EL 902.69

EXISTING PROFILE

HP STA 220+28.83
HP EL 902.83

VCL = 450.00

K = 107.26

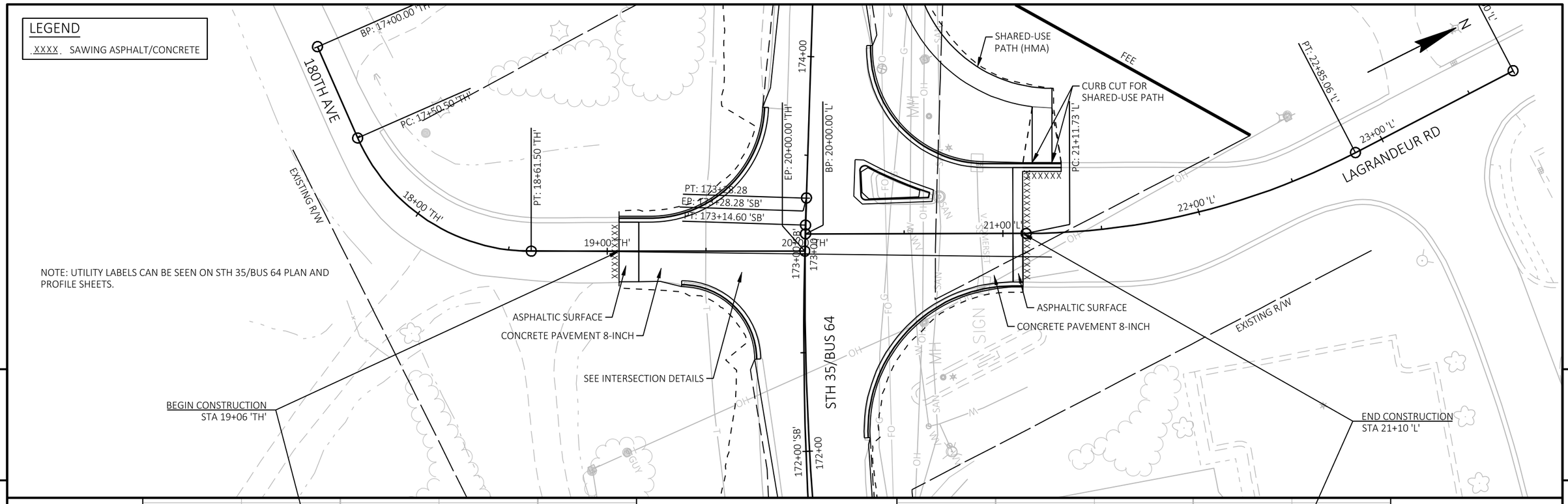
EXISTING
PROPOSED

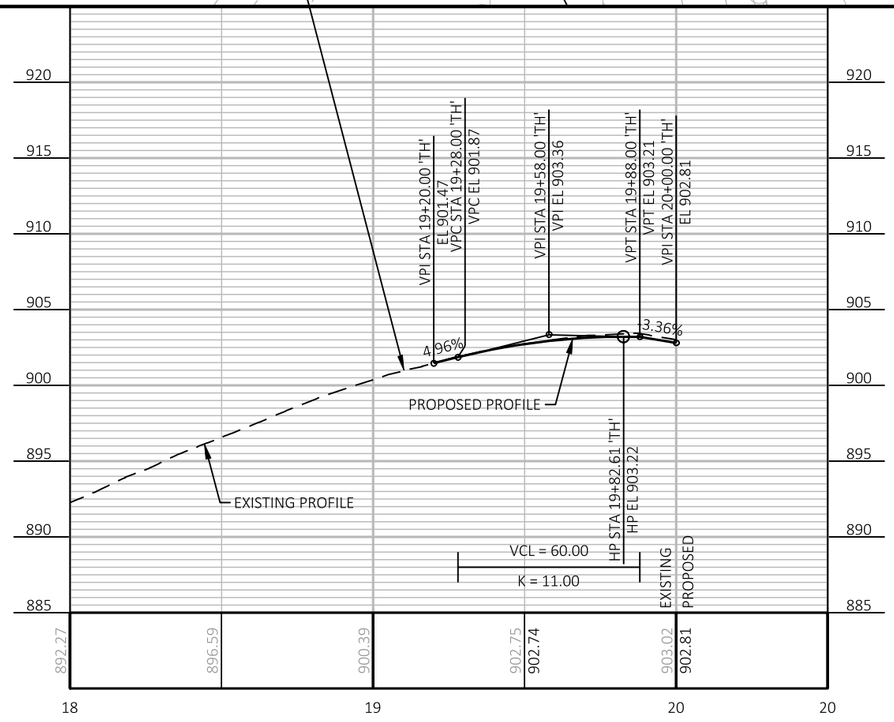
| | | |

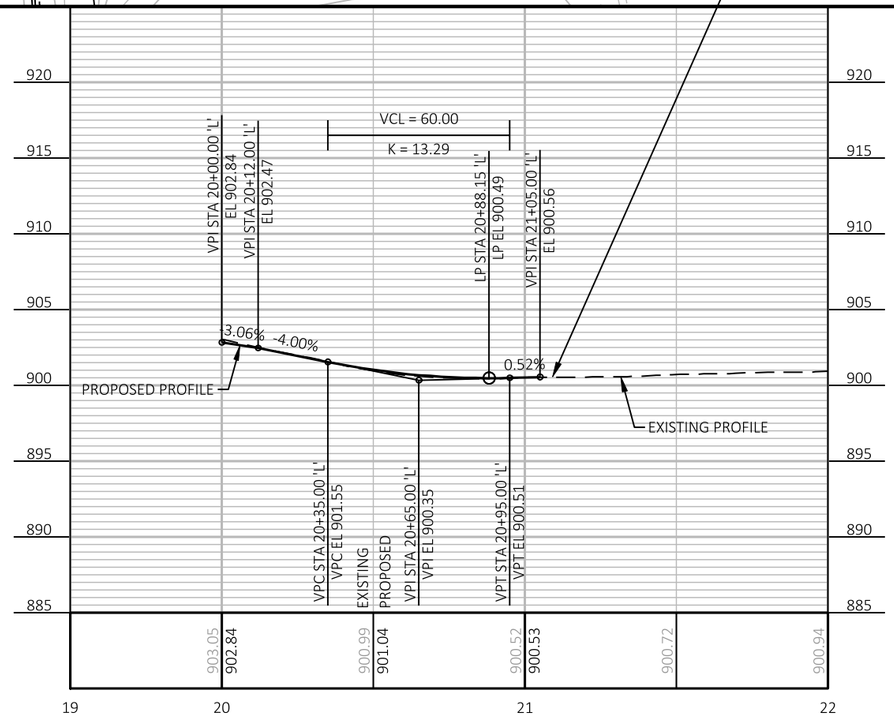
LEGEND

XXXX SAWING ASPHALT/CONCRETE

NOTE: UTILITY LABELS CAN BE SEEN ON STH 35/BUS 64 PLAN AND PROFILE SHEETS.







PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: 180TH ST & LAGRANDEUR RD	SHEET 202	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050111

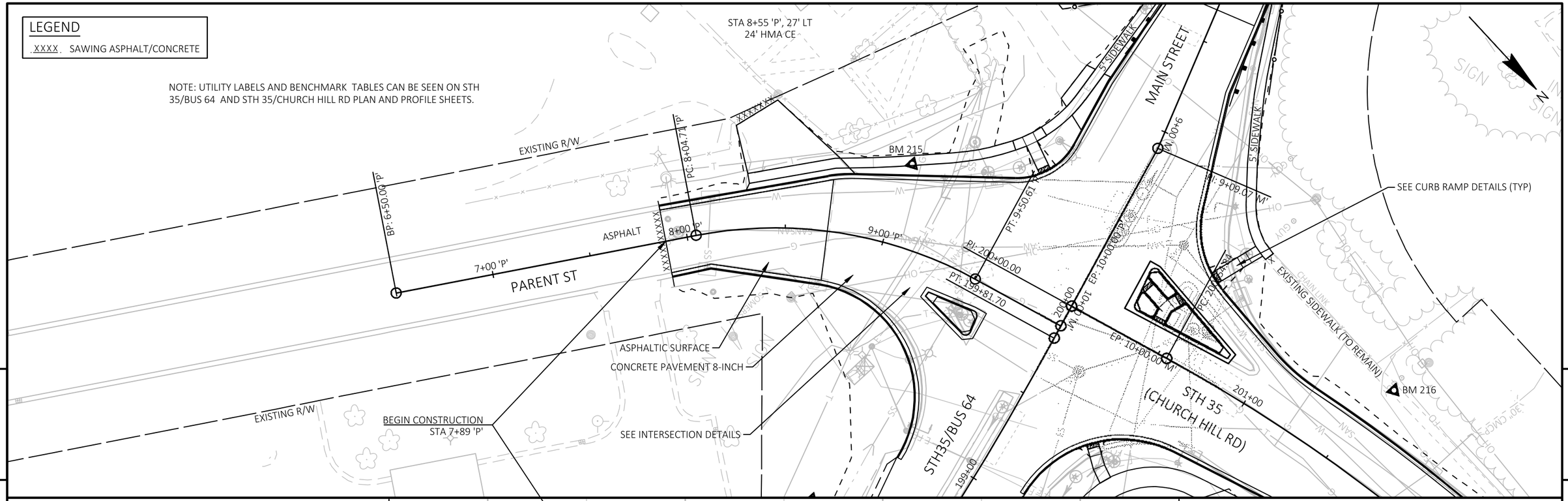
PLOT DATE : 10/31/2022 8:27 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

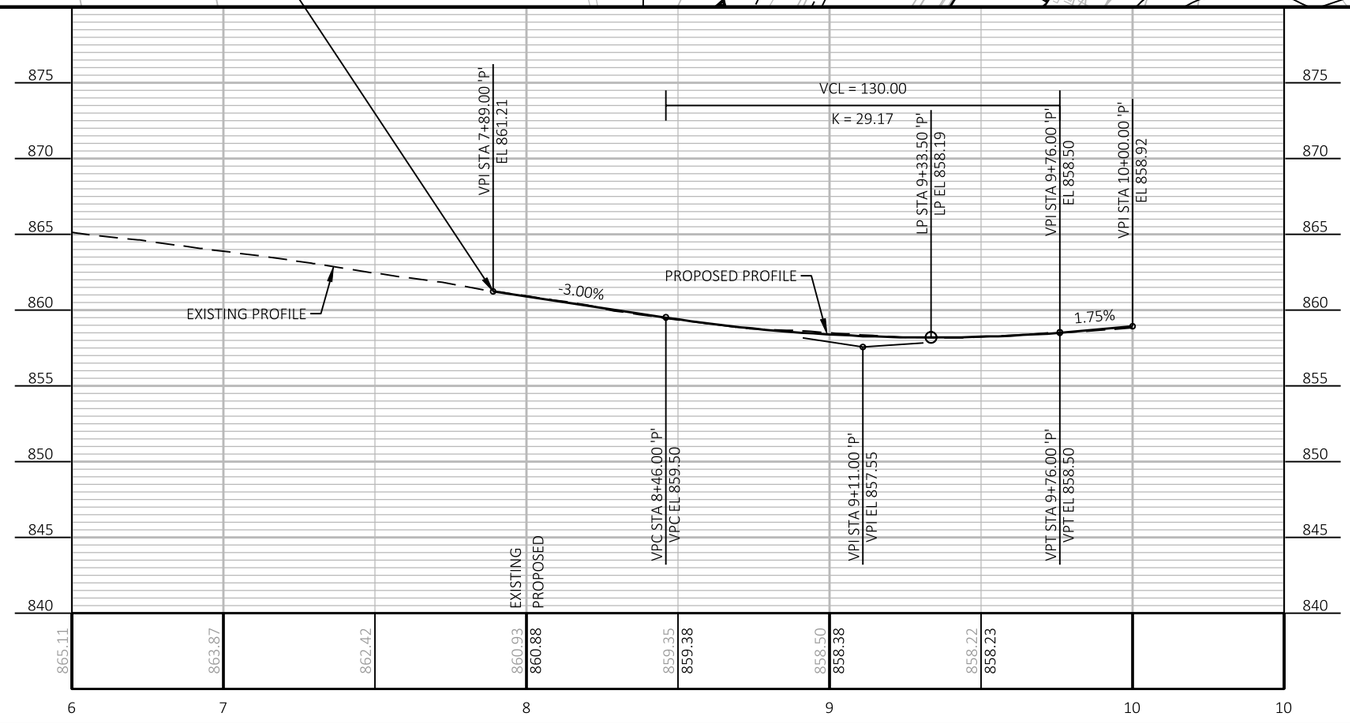
WISDOT/CADDS SHEET 44

LEGEND

XXXX SAWING ASPHALT/CONCRETE

NOTE: UTILITY LABELS AND BENCHMARK TABLES CAN BE SEEN ON STH 35/BUS 64 AND STH 35/CHURCH HILL RD PLAN AND PROFILE SHEETS.





PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: PARENT ST	SHEET 203	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050112

PLOT DATE : 11/1/2022 8:06 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

LEGEND

XXXX SAWING ASPHALT/CONCRETE

NOTE: UTILITY LABELS AND BENCHMARK TABLES CAN BE SEEN ON STH 35/BUS 64 AND STH 35/CHURCH HILL RD PLAN AND PROFILE SHEETS.

TERMINAL EAT TL-2
SEE CONSTRUCTION DETAIL

REMOVING FENCE
FENCE CHAIN LINK 4 FT

MGS THRIE BEAM TRANSITION
SEE CONSTRUCTION DETAIL

EXISTING R/W

STA 8+13.1 'M', 28.3' RT

BP: 7+00.00 'M'

PI: 7+83.50 'M'

5' SIDEWALK

B-55-0920

8+00 'M'

MAIN STREET

CONCRETE APPROACH SLAB

STA 8+10.0 'M', 27.3' RT

MGS THRIE BEAM TRANSITION
SEE CONSTRUCTION DETAIL

EXISTING R/W

TERMINAL EAT TL-2
SEE CONSTRUCTION DETAIL

REMOVING FENCE
FENCE CHAIN LINK 4 FT

STA 8+52.2 'M', 54.9' RT

STA 8+54.1 'M', 89.3' RT

STA 8+63.2 'M', 72.1' RT

BEGIN CONSTRUCTION
STA 8+11 'M'

STA 9+00 'M', 52' RT
14' HMA PE

SEE CURB RAMP
DETAILS (TYP)

STA 8+62.0 'M', 41.0' RT

PC: 200+54.84

PI: 9+09.07 'M'

9+00 'M'

EP: 10+00.00 'P'
= 199+88.68

10+00 'M'

200+00

201+00

200+00

EP: 10+00.00 'M'

STH 35
(CHURCH HILL RD)

SEE INTERSECTION DETAILS

10' SHARED-USE PATH (HMA)

STH 35/BUS 64

199+00

198+00

97+00

PT: 9+50.61 'P'

PI: 200+00.00

PT: 199+81.70

PARENT ST

9+00 'P'

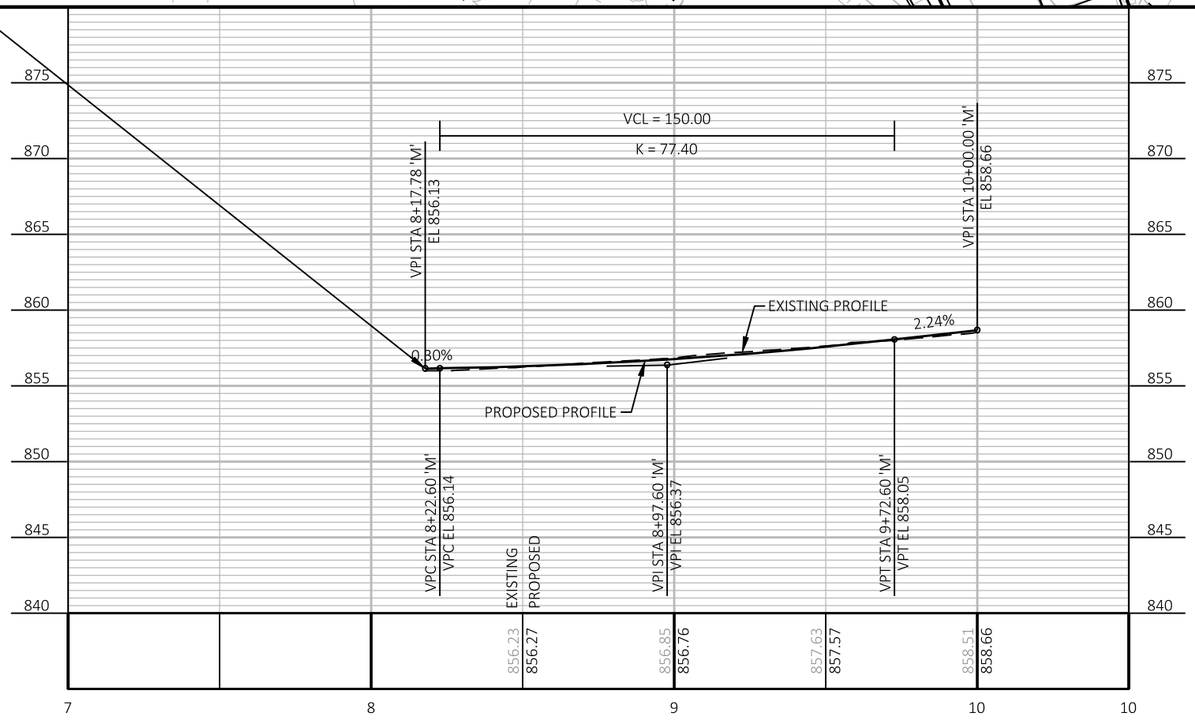
BM 214

BM 215

N

5

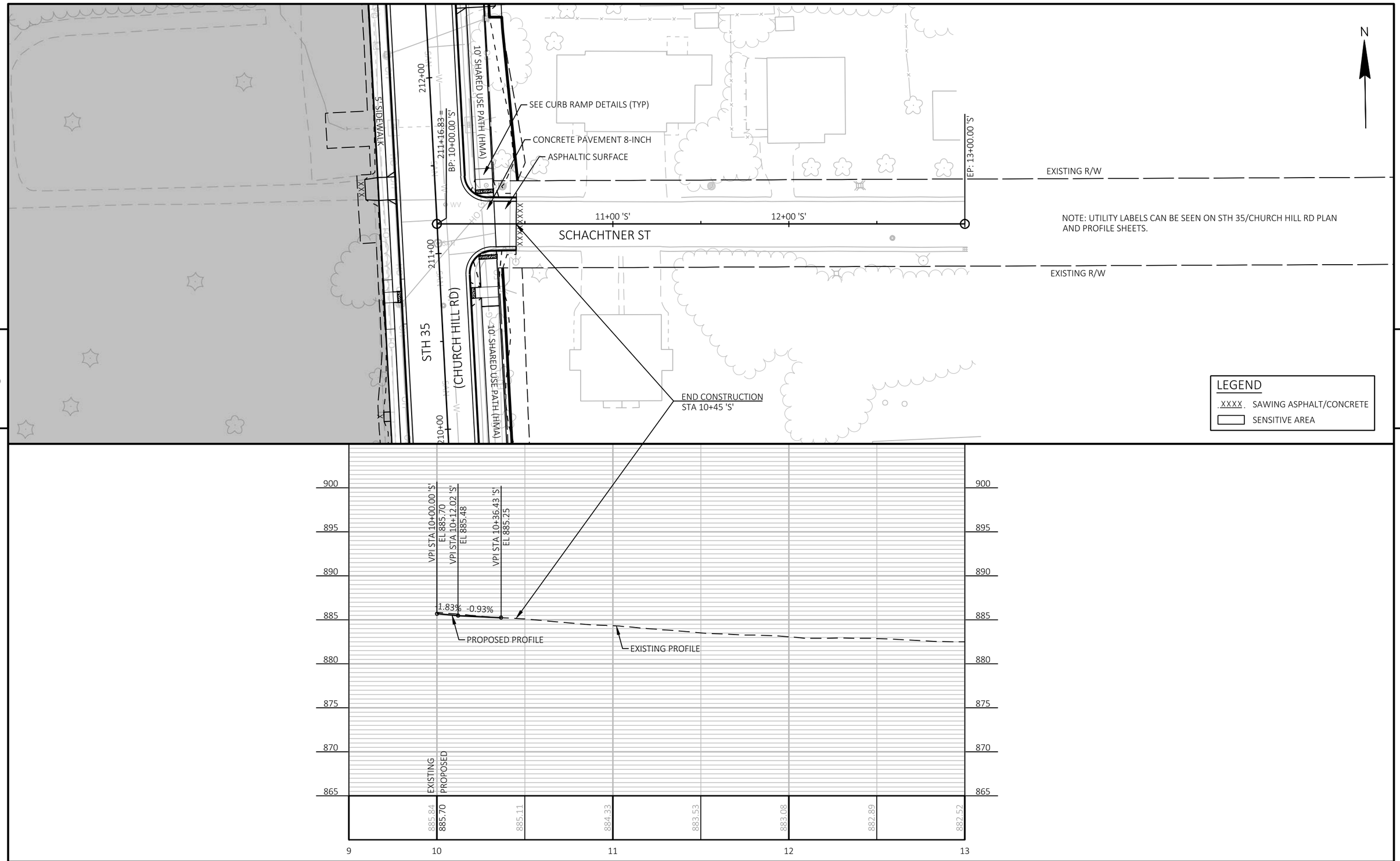
5



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: MAIN ST	SHEET 204	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050113

PLOT DATE : 11/1/2022 8:08 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	PLAN AND PROFILE: SCHACHTNER ST	SHEET 205	E

Standard Detail Drawing List

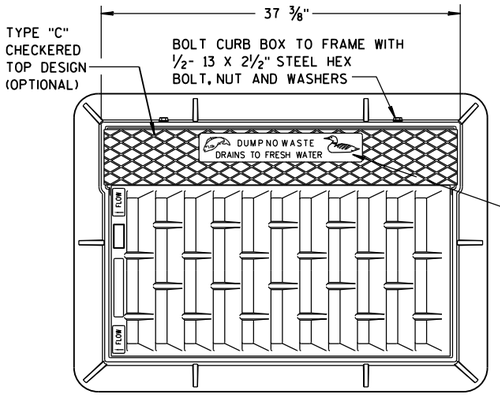
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-02	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08B09-03	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D18-03	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-03	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08D20-01	DRIVEWAYS WITH CURB & GUTTER RETURNS
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-12	PULL BOX
09B16-02	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C12-09B	CONCRETE BASE TYPE 13
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-15A	POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2
09E01-15B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-09F	TYPE 10 SPECIAL POLE 35' MONOTUBE ARM
09E08-09H	TYPE 10 SPECIAL POLE 45' MONOTUBE ARM
09E08-09J	TYPE 13 POLE 35'-55' MONOTBE ARM
09E08-09K	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
11B02-02	CONCRETE MEDIAN NOSE
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13A03-06	CONCRETE PAVEMENT SHOULDERS
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-13A	RURAL DOWELED CONCRETE PAVEMENT
13C11-13B	RURAL DOWELED CONCRETE PAVEMENT
13C13-10	URBAN DOWELED CONCRETE PAVEMENT
13C16-02A	DETAIL FOR RIGHT TURN LANE/TEE INTERSECTION BYPASS LANE ON A CONRETE ROADWAY
13C16-02B	DETAIL FOR RIGHT TURN LANE/TEE INTERSECTION BYPASS LANE ON A CONRETE ROADWAY
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C18-07F	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
13C19-03	HMA LONGITUDINAL JOINTS

6

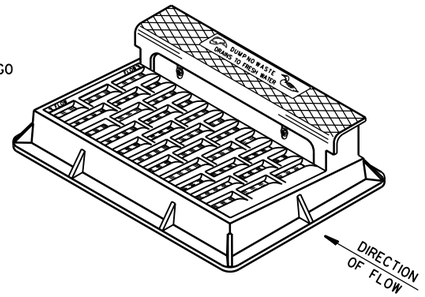
Standard Detail Drawing List

14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B20-11D	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SLOPED END PARAPETS
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-22A	LONGITUDINAL MARKING (MAINLINE)
15C08-22B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-22C	PAVEMENT MARKING (TURN LANES)
15C08-22D	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-06A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-06B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C18-06C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-07A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C20-02	YIELD MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15C36-01	PARKING STALL MARKING
15D20-06A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-07B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-07C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D40-04A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-04C	TRAFFIC CONTROL, PARTIAL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL

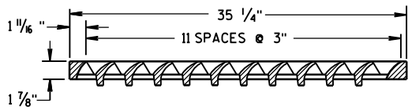
6

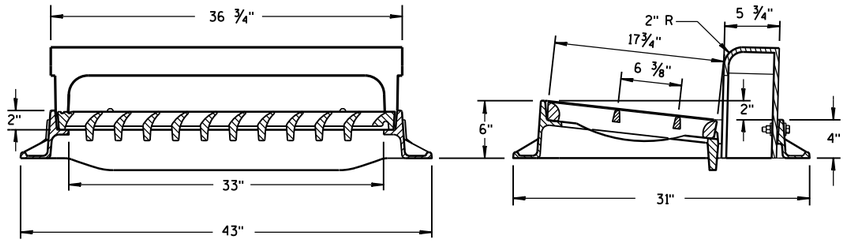


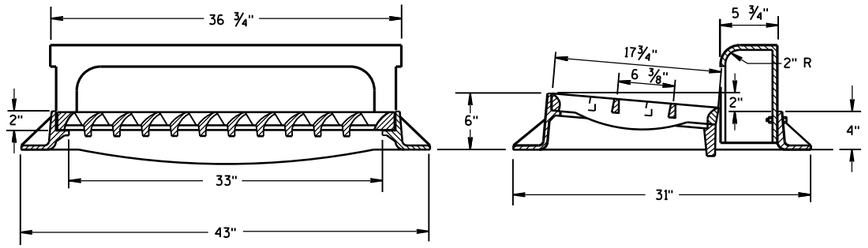
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

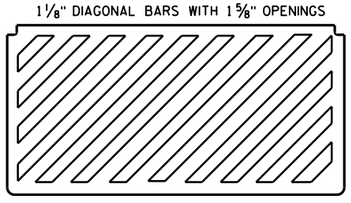






TYPE "H"

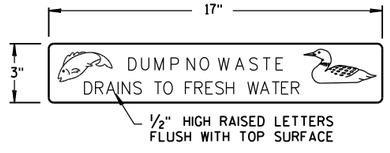
NOTE: EITHER CASTING IS ACCEPTABLE



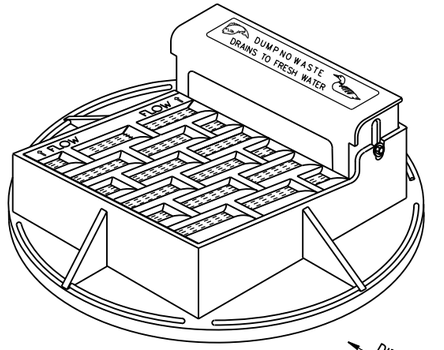
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

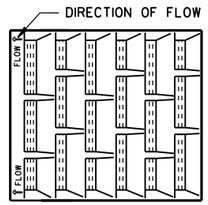
NOTE:
GRATE IS REVERSIBLE.

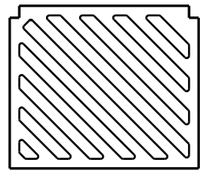
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

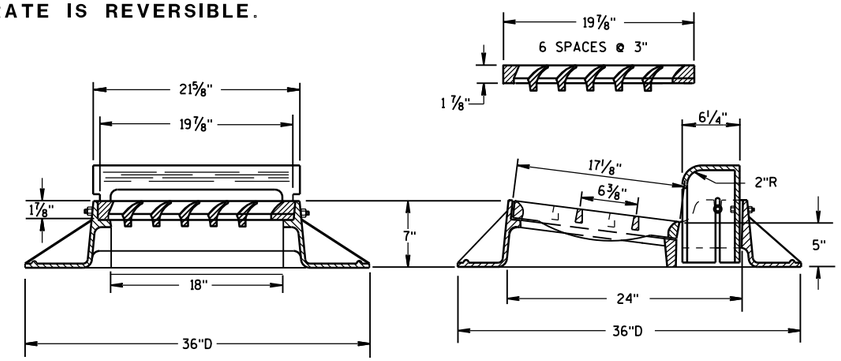




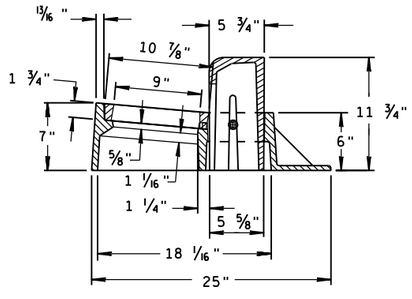
SPECIAL GRATE FOR TYPE "A" COVER

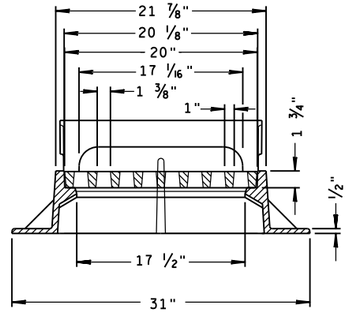
(MEASURES 19 3/4" X 17" X 1 7/8")

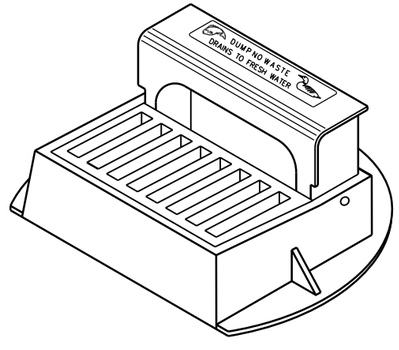
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

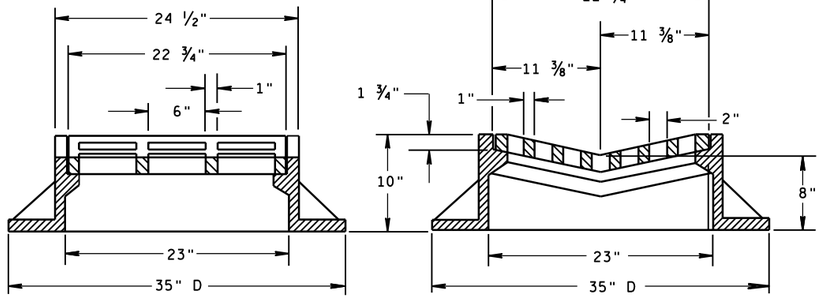
INLET COVERS
TYPE A, H, A-S, H-S & Z

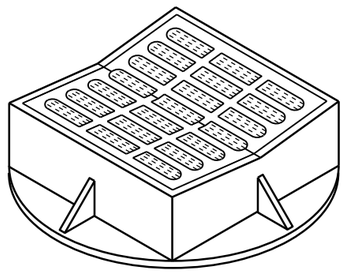
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

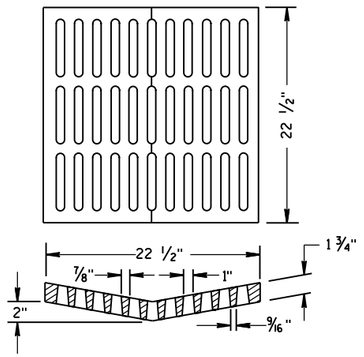
6

S.D.D. 8 A 5-19a



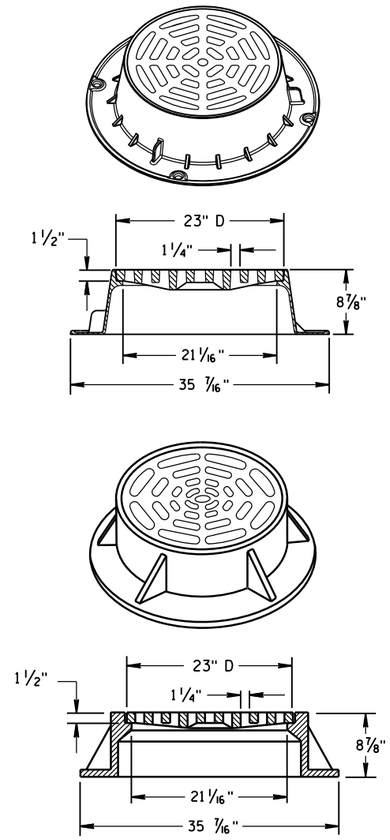


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

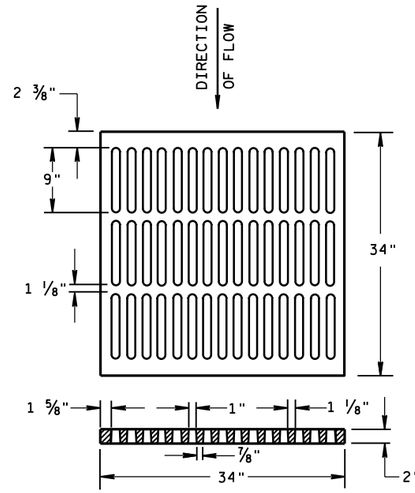
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

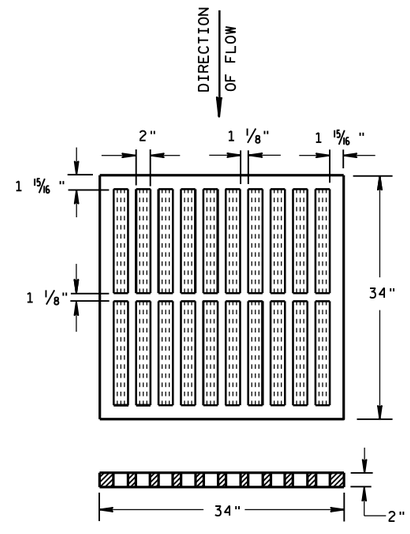
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



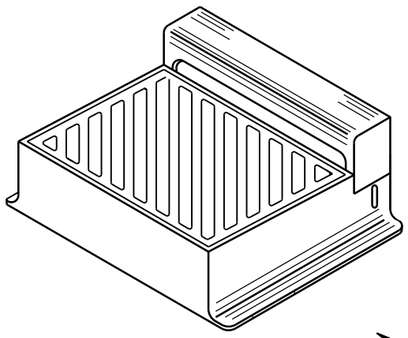
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



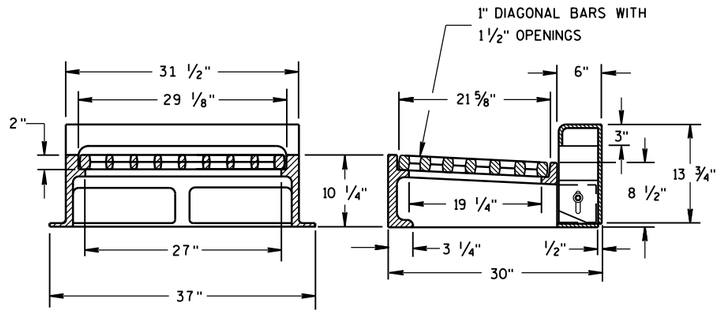
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIRECTION OF FLOW

DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

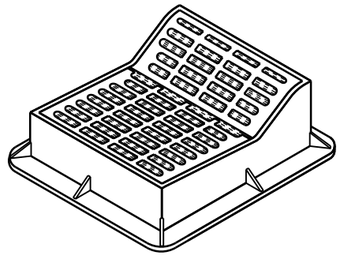
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

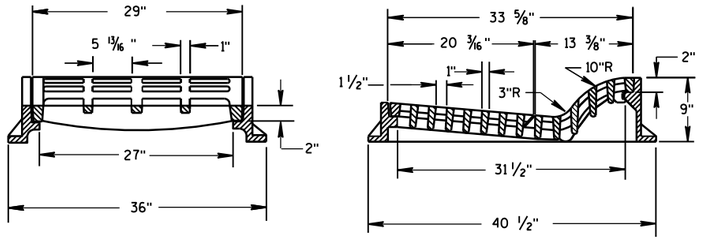
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

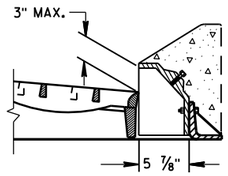
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

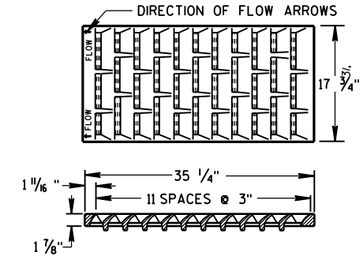
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

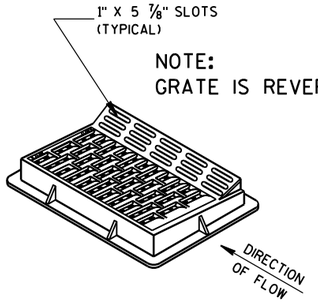
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

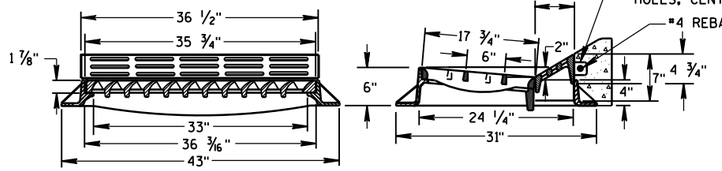
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



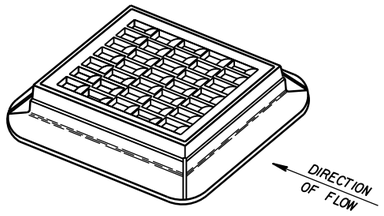


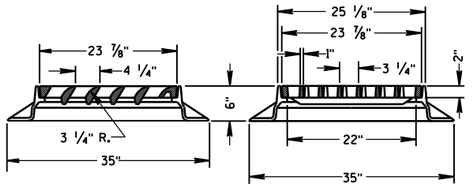


TYPE "HM"

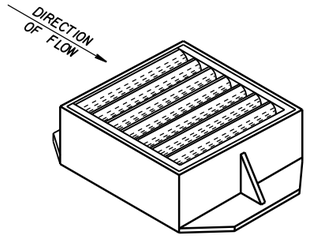
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

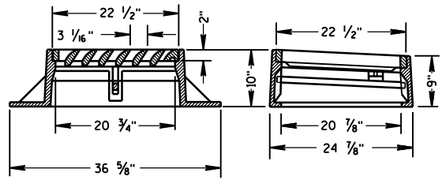
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



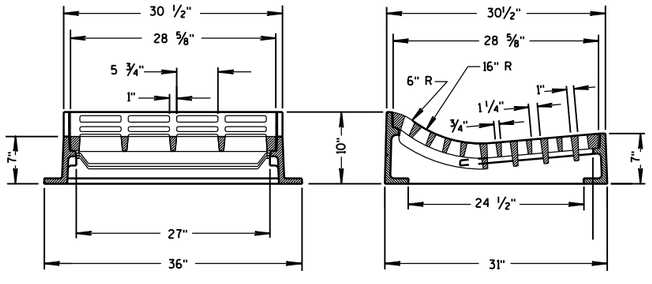


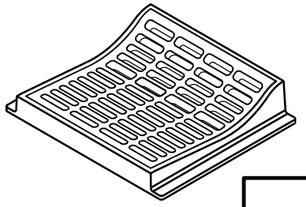
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

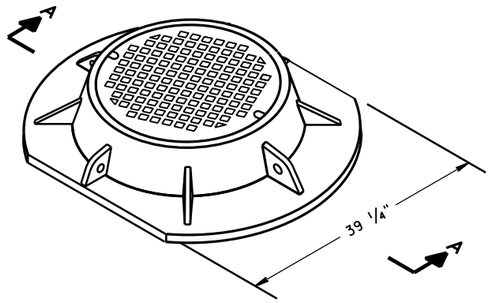
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

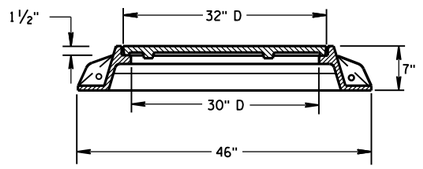
APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

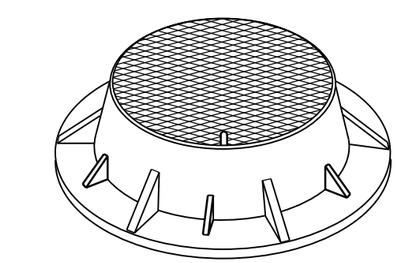
FHWA

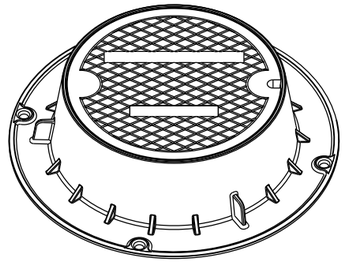
6
S.D.D. 8 A 5-19c

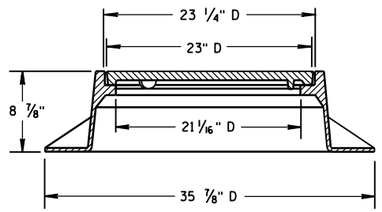


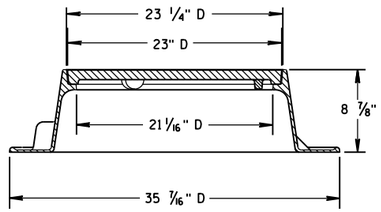


SECTION A-A
TYPE "K"









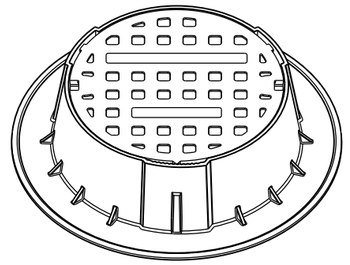
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

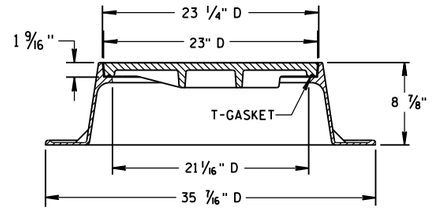
GENERAL NOTES

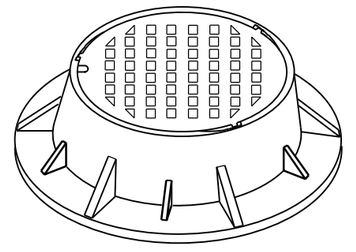
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

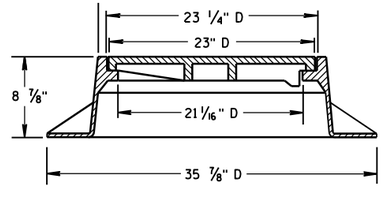
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

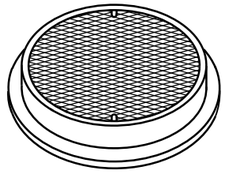


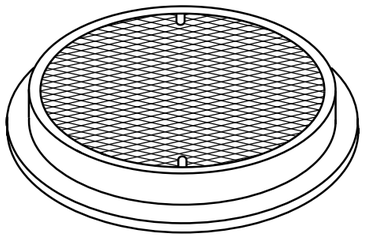


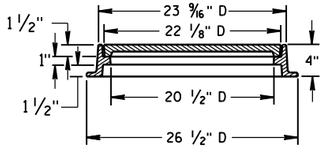




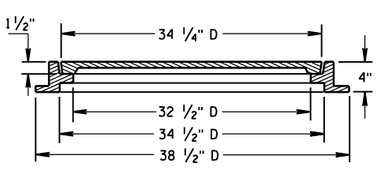
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



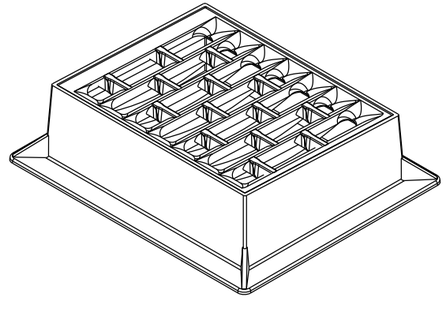


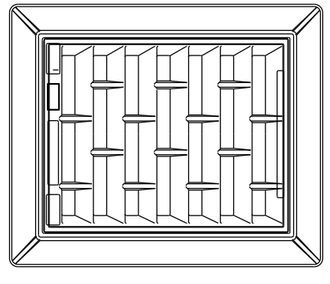


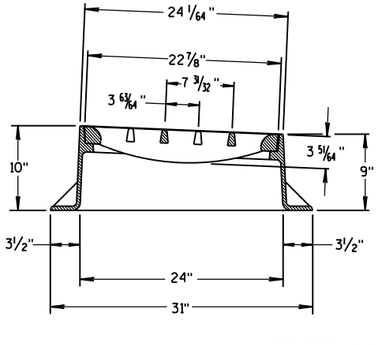
TYPE "L"

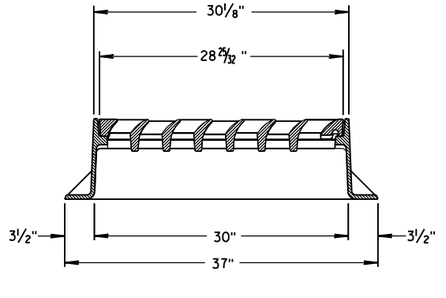


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

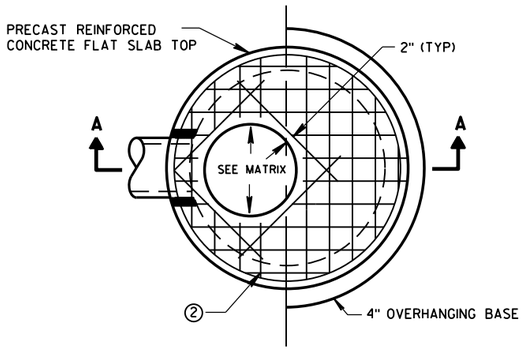
211

6

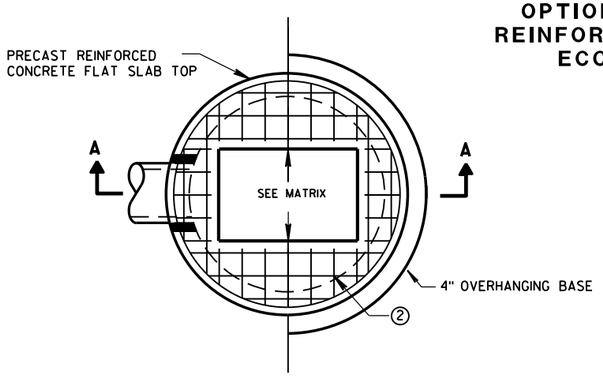
S.D.D. 8 A 5-19d

6

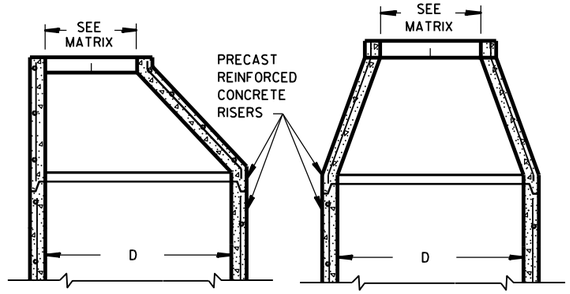
S.D.D. 8 A 5-19d



PLAN VIEW CIRCULAR OPENING

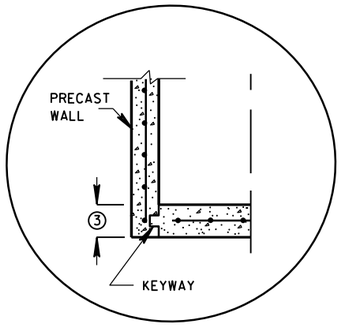


PLAN VIEW RECTANGULAR OPENING

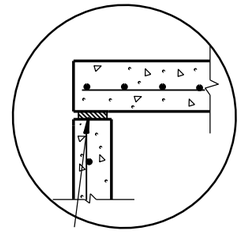


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

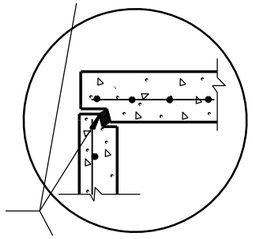
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

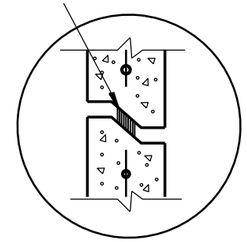


TOP WITH PLAIN END JOINT



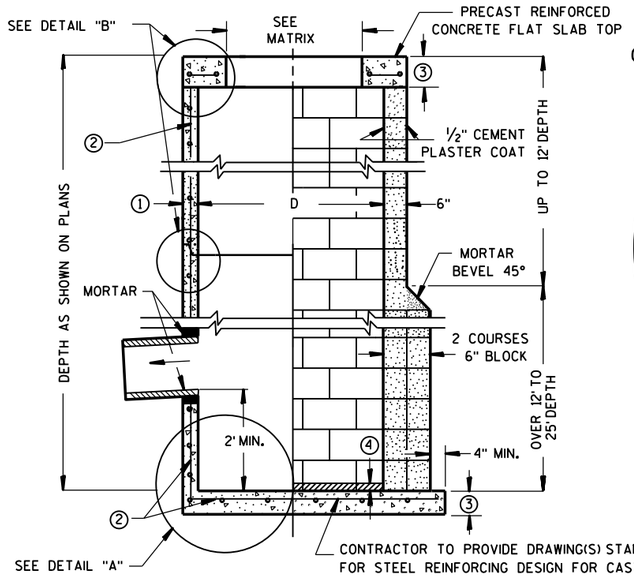
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

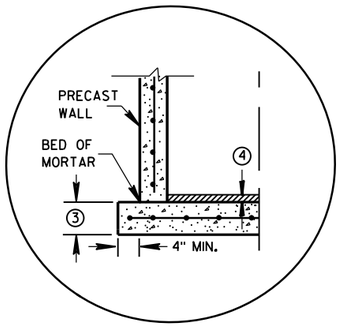


CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

SECTION A-A

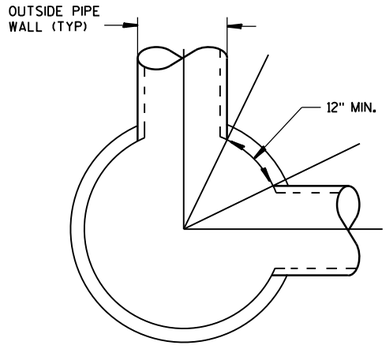
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

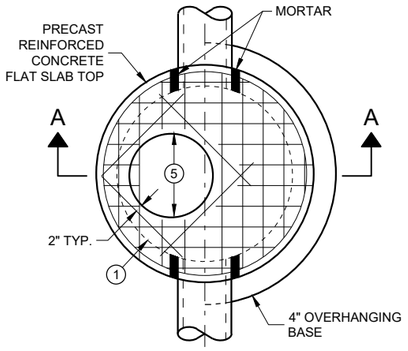
CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

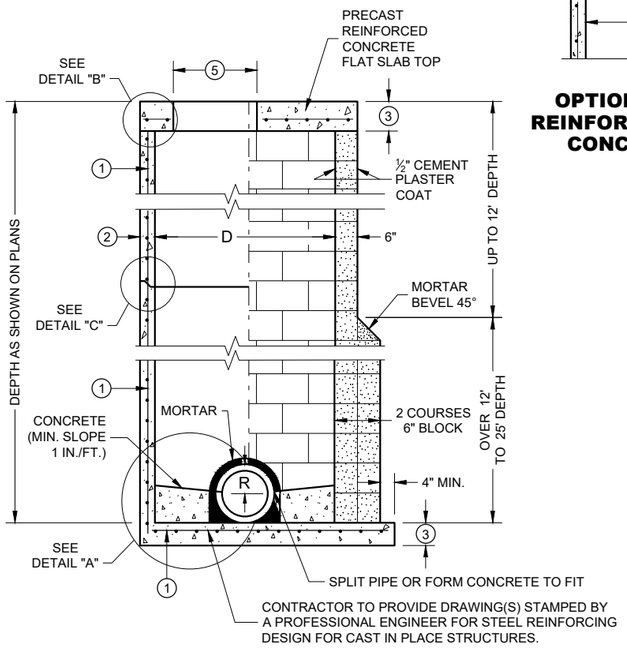
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

S.D.D. 8 A 8-2



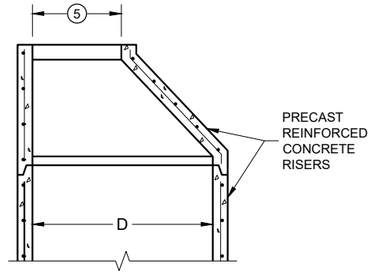
PLAN VIEW
CIRCULAR OPENING



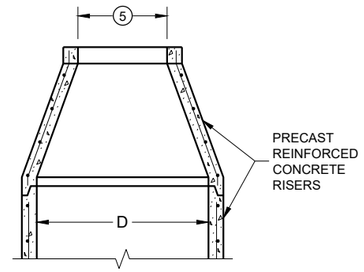
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

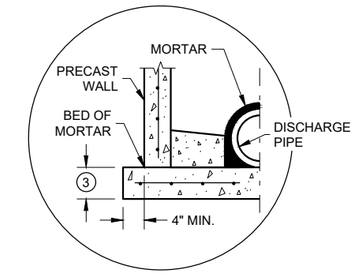
MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

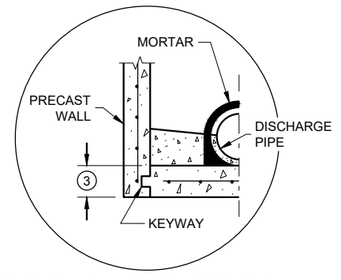
PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42*	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

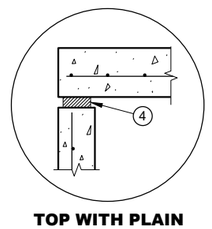


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

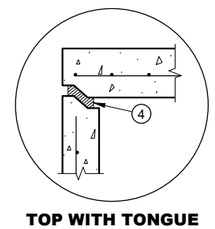


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

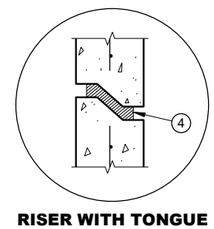
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" **DETAIL "C"**

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

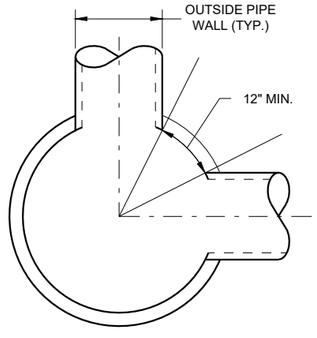
(1) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP.).

(5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

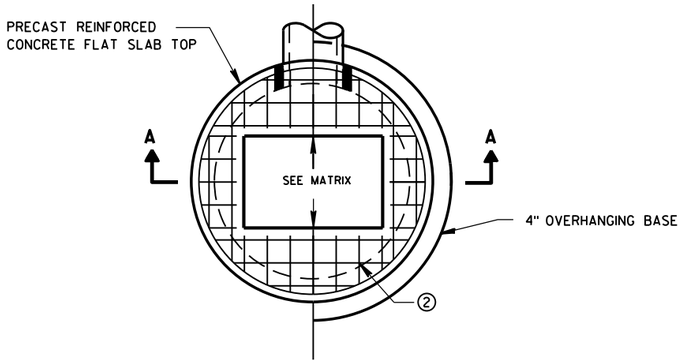
MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

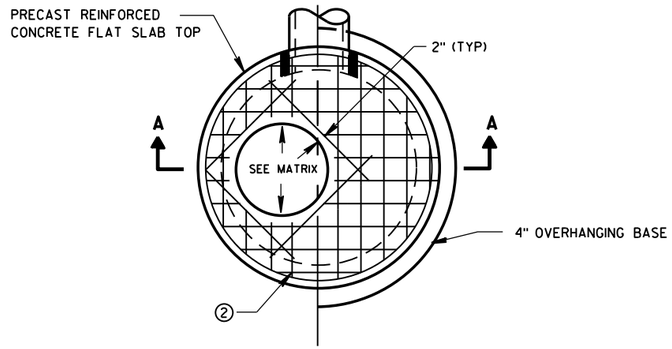
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
213
FHWA

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

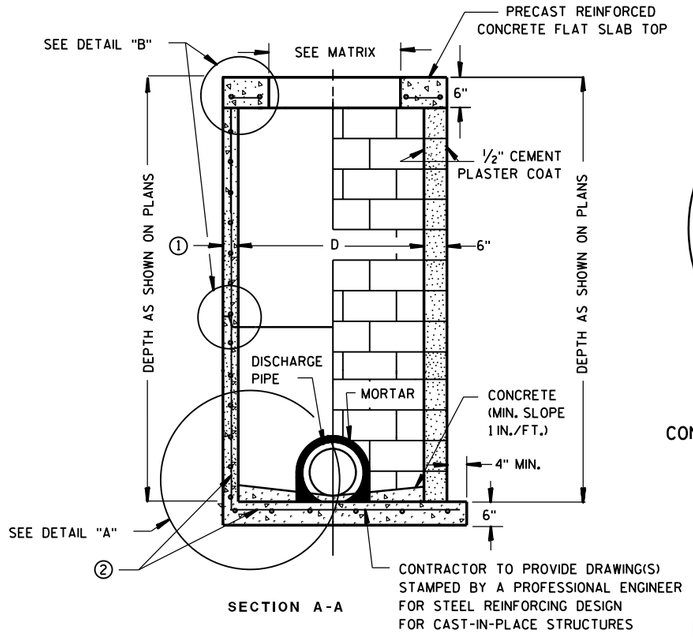
6
SDD 08B09 - 03



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

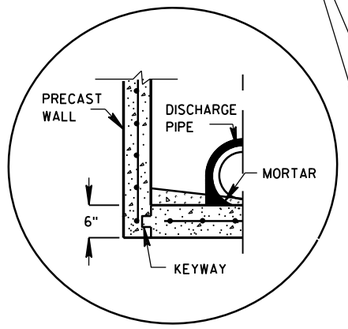


SECTION A-A

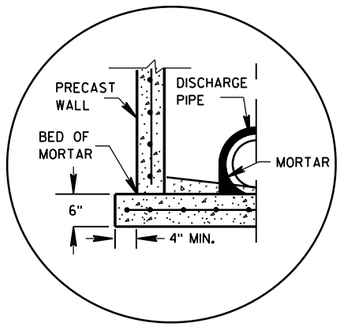
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

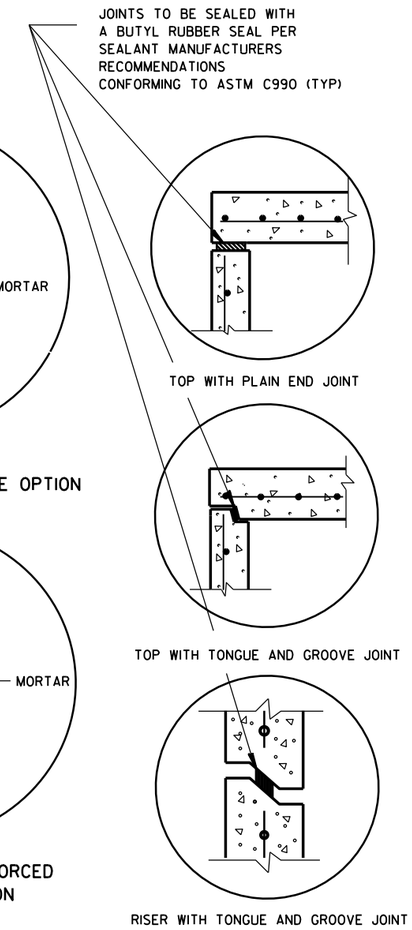


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

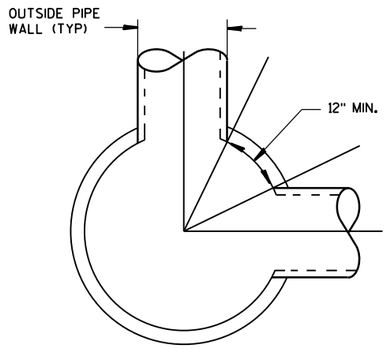
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

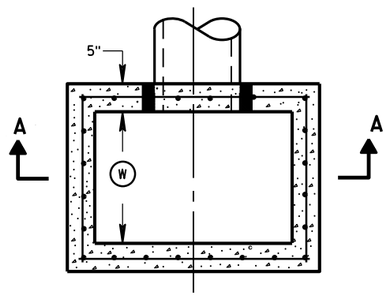
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept.. 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS | UNIT SUPERVI ENT
FHWA

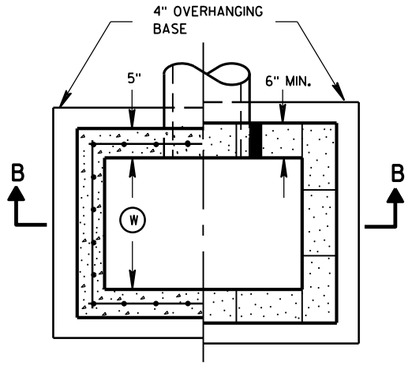
INLETS 3-FT AND 4-FT DIAMETER

6

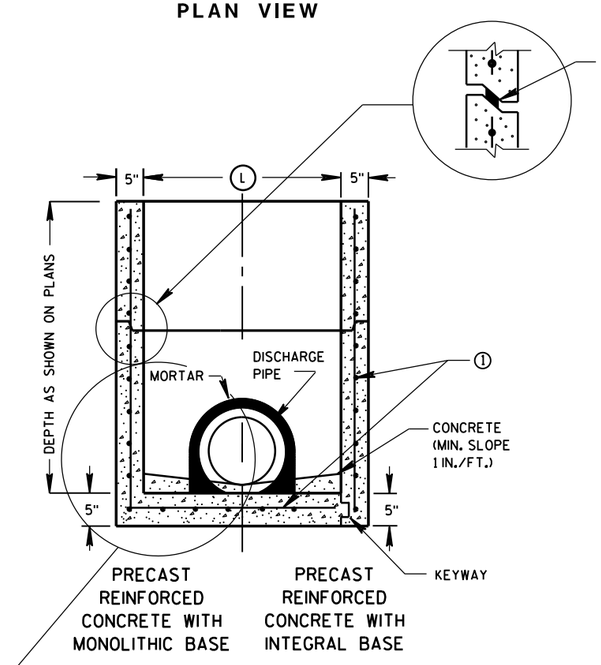
S.D.D. 8 C 6-2



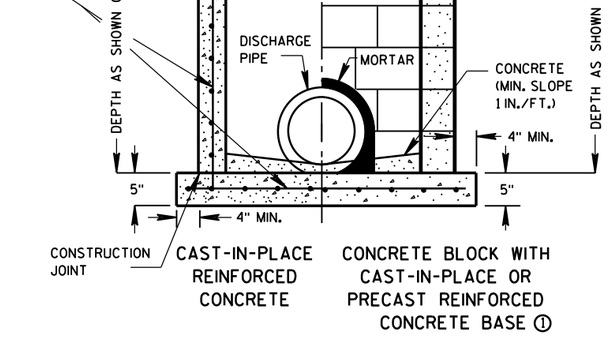
PLAN VIEW



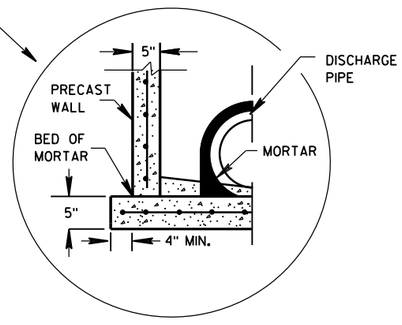
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

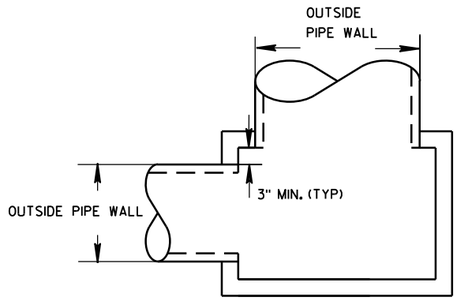
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH Ⓦ (FT)	LENGTH Ⓛ (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



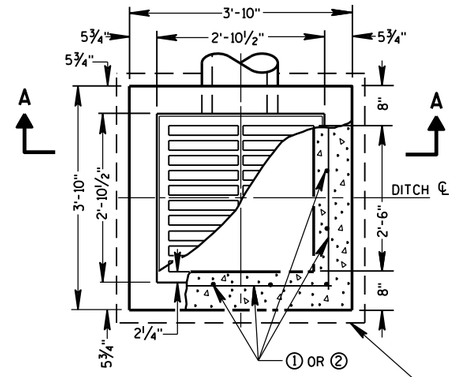
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

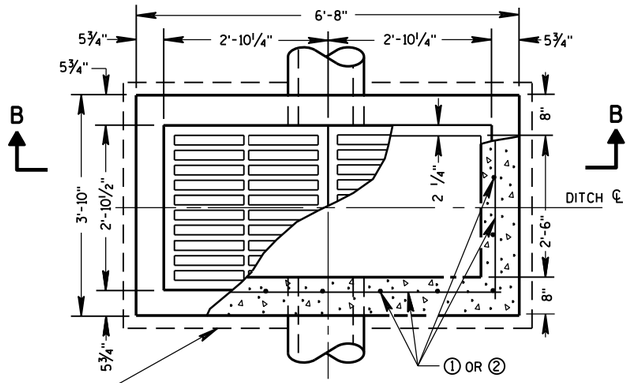
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

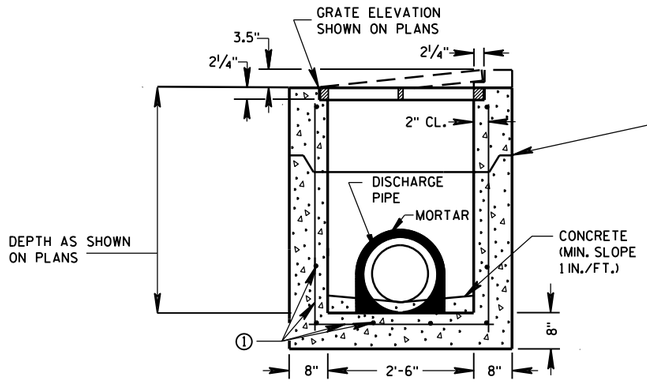


PLAN VIEW

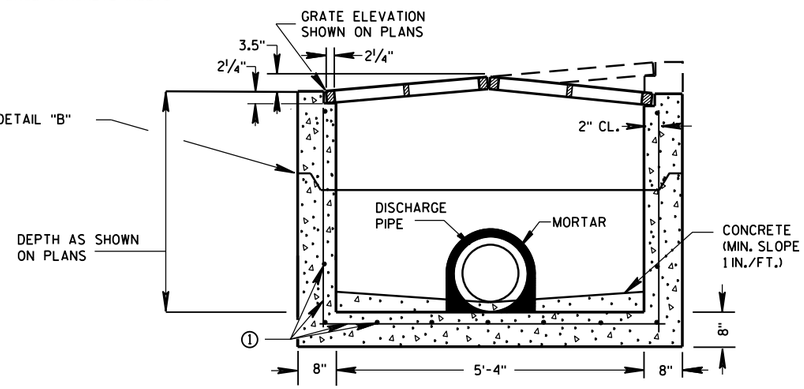


PLAN VIEW

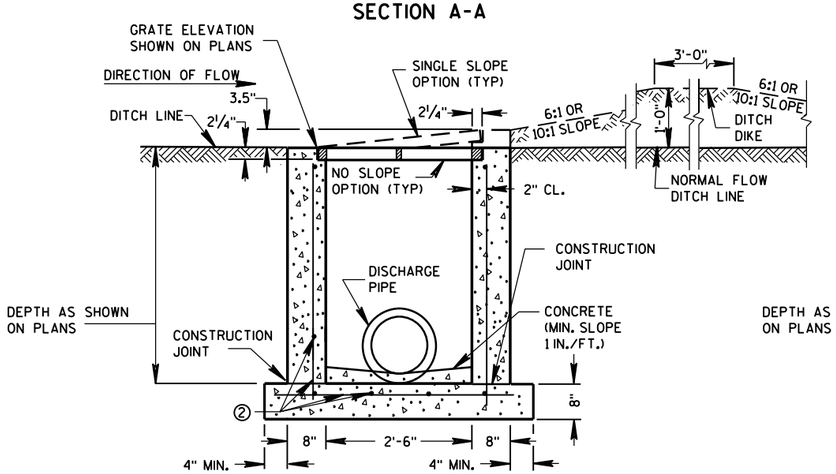
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



PRECAST REINFORCED CONCRETE SECTION A-A

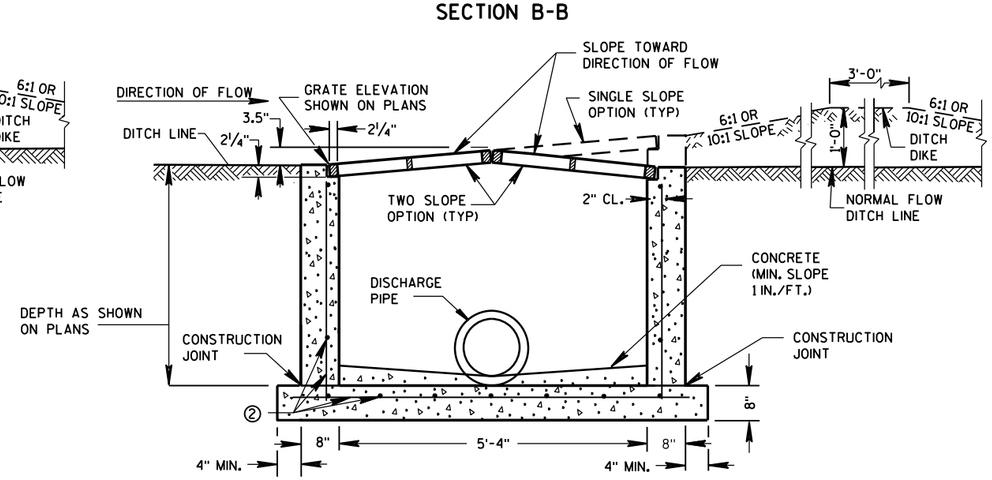


PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A

INLETS MEDIAN 1 GRATE



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

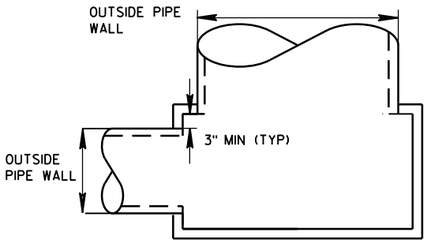
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

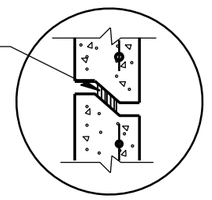
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



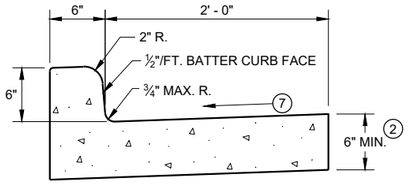
DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

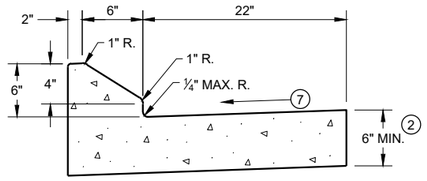
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

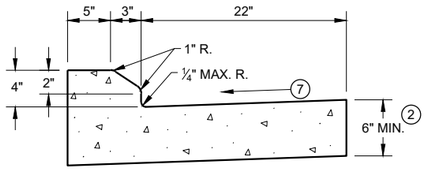
6
S.D.D. 8 C 8-2



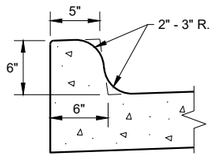
TYPES A (1) & D



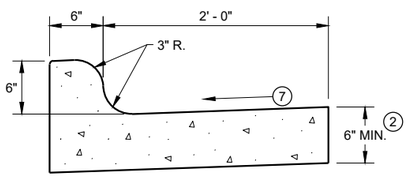
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

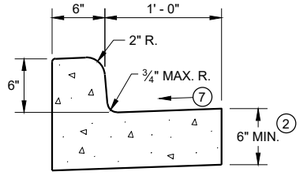


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



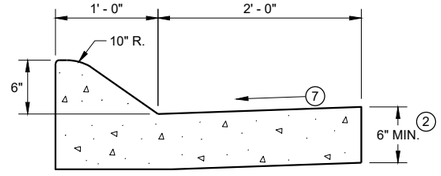
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

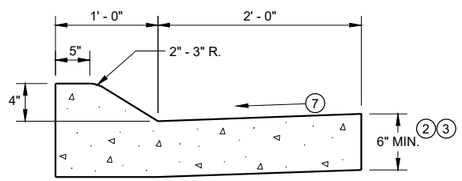


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

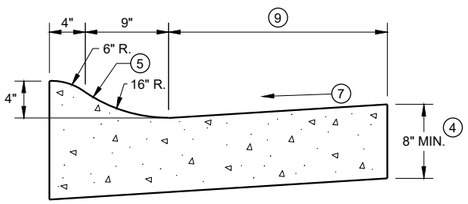


6" SLOPED CURB TYPES A (1) & D



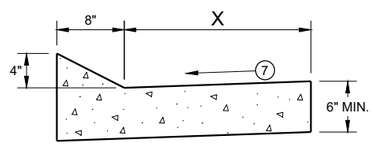
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

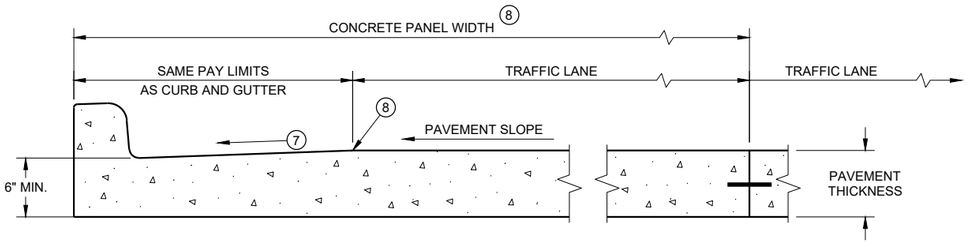


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

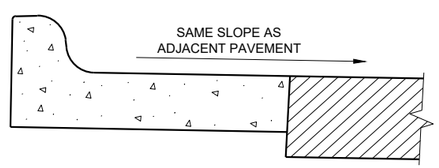
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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

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

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

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

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

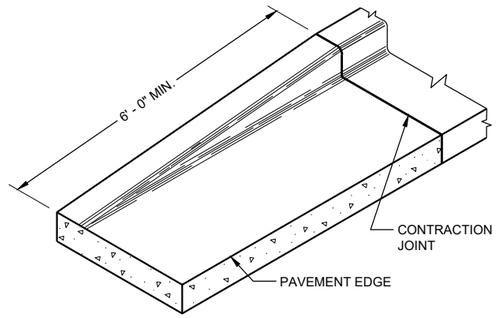
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

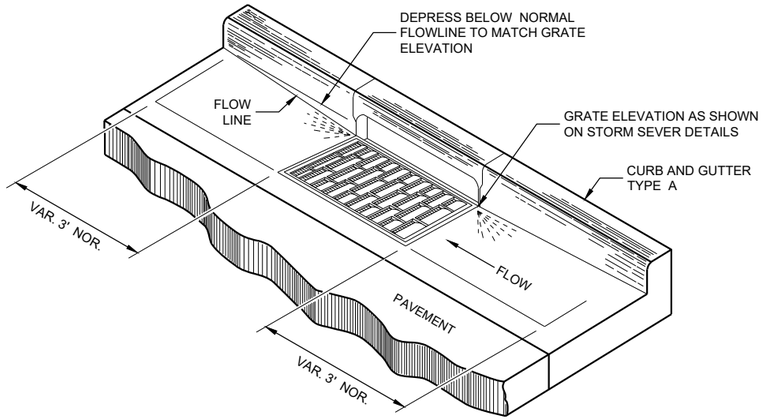
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D01 - 22a
SDD 08D01 - 22a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

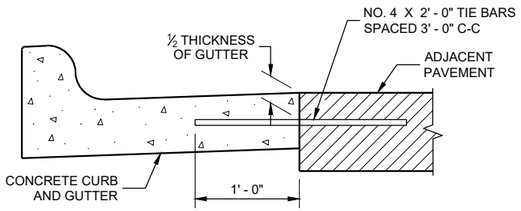
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

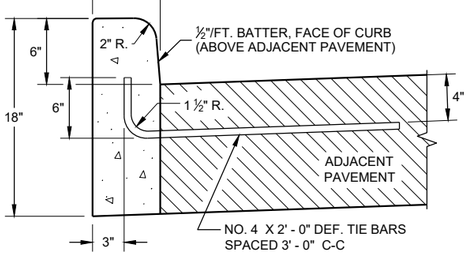
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

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

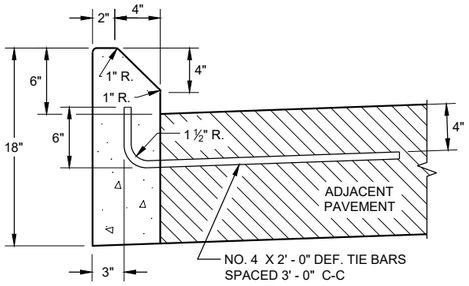
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

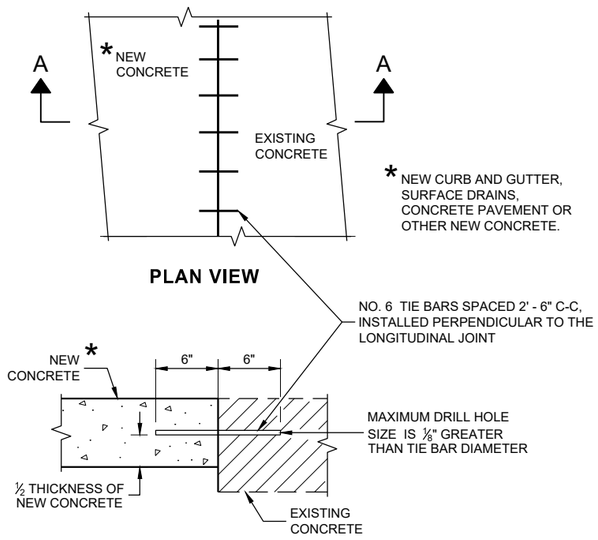


TYPES A (1) & D

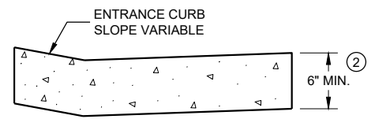


TYPES G (1) & J

CONCRETE CURB



TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

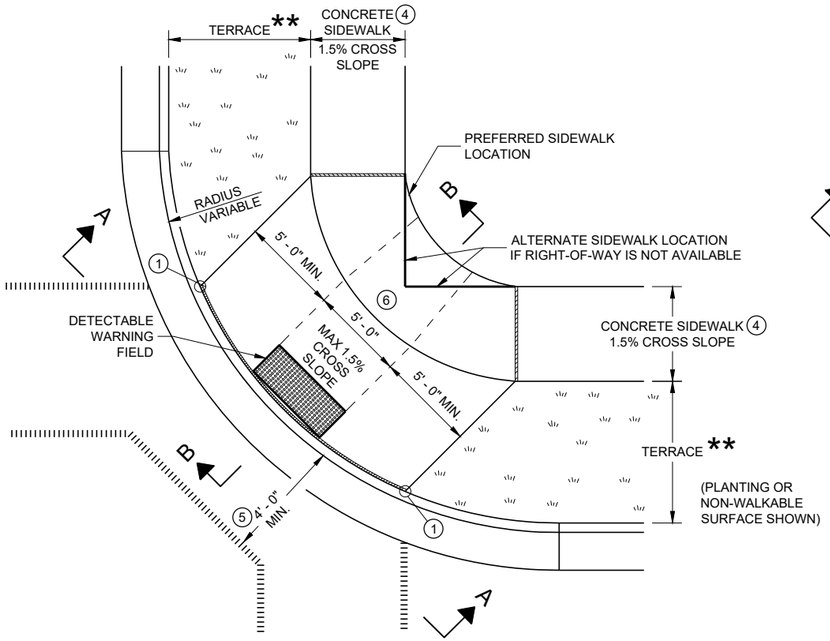
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

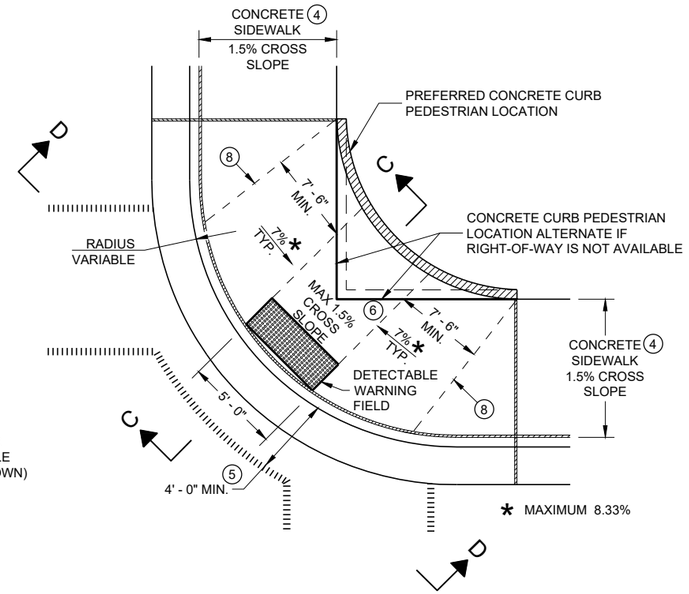
SDD08D01 - 22b



PLAN VIEW

CURB RAMP TYPE 1

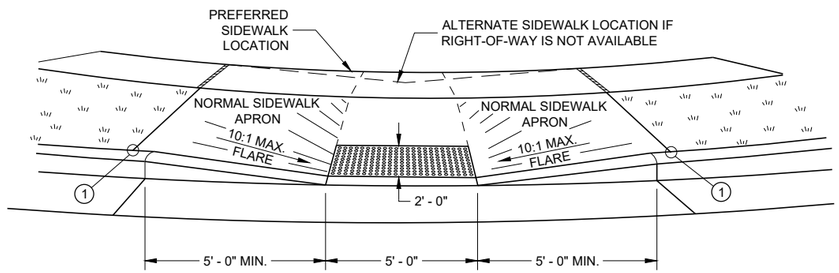
(CENTER OF CORNER RADIUS)



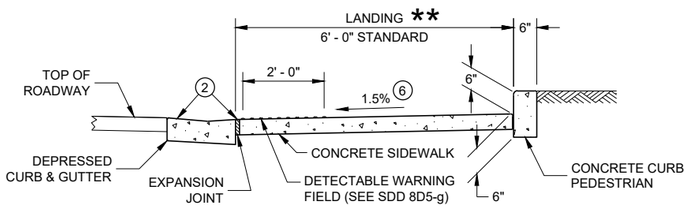
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

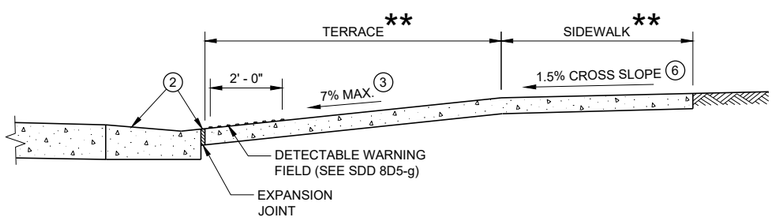


VIEW A - A FOR TYPE 1

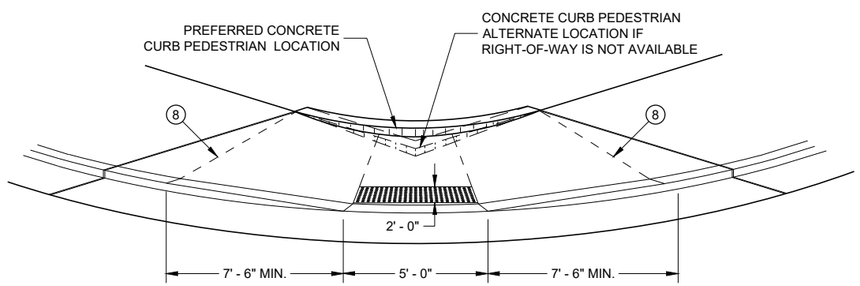


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

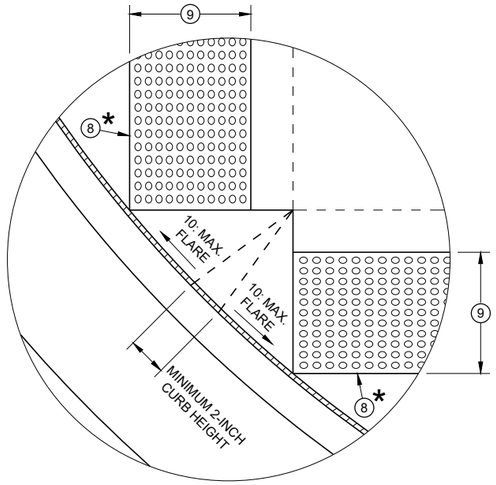
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

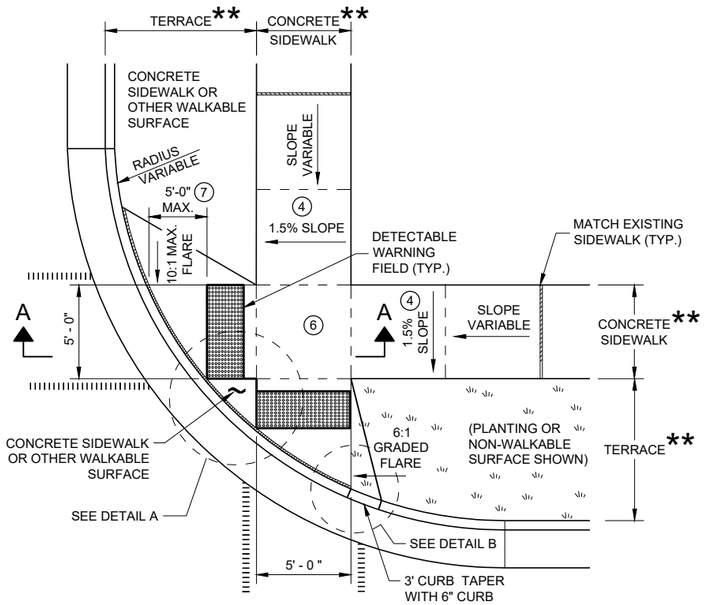
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

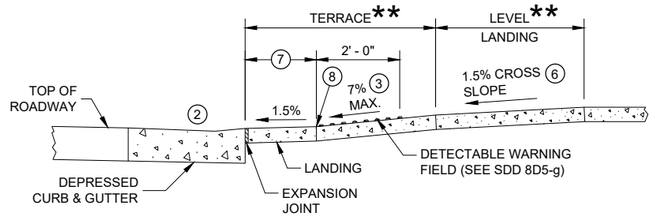
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

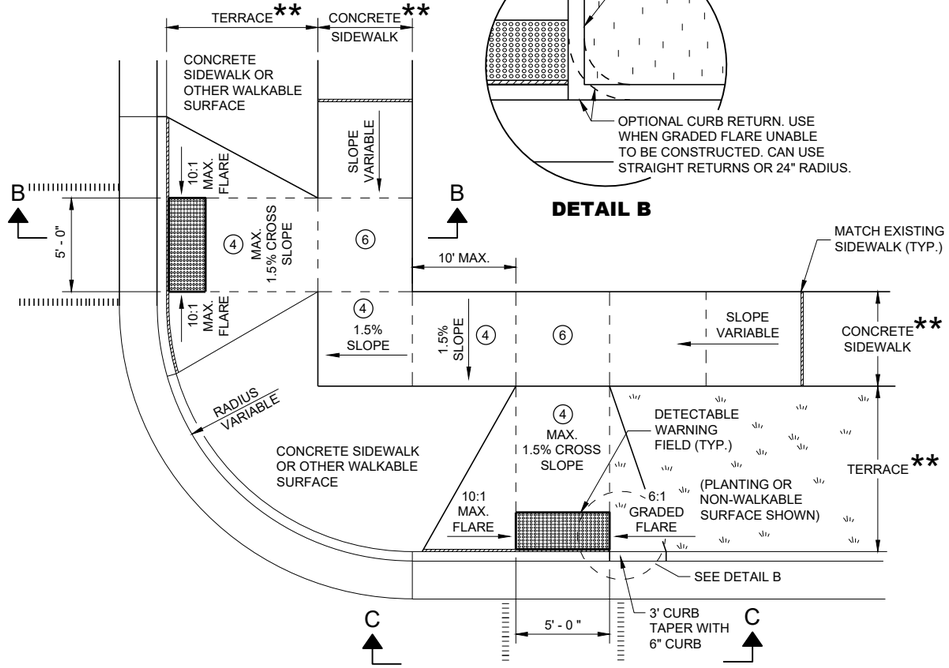
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

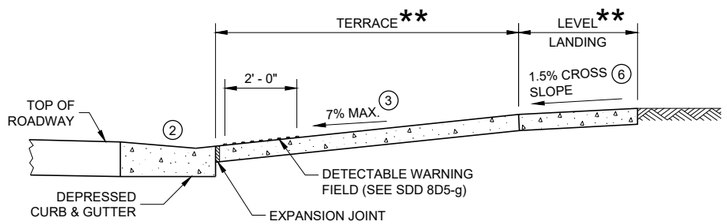
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

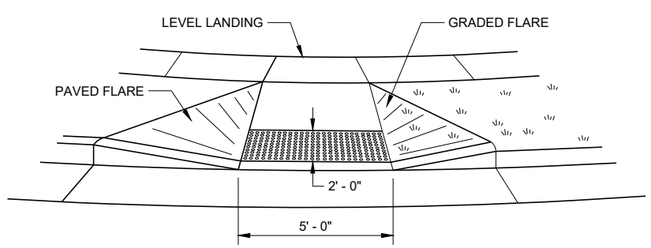
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



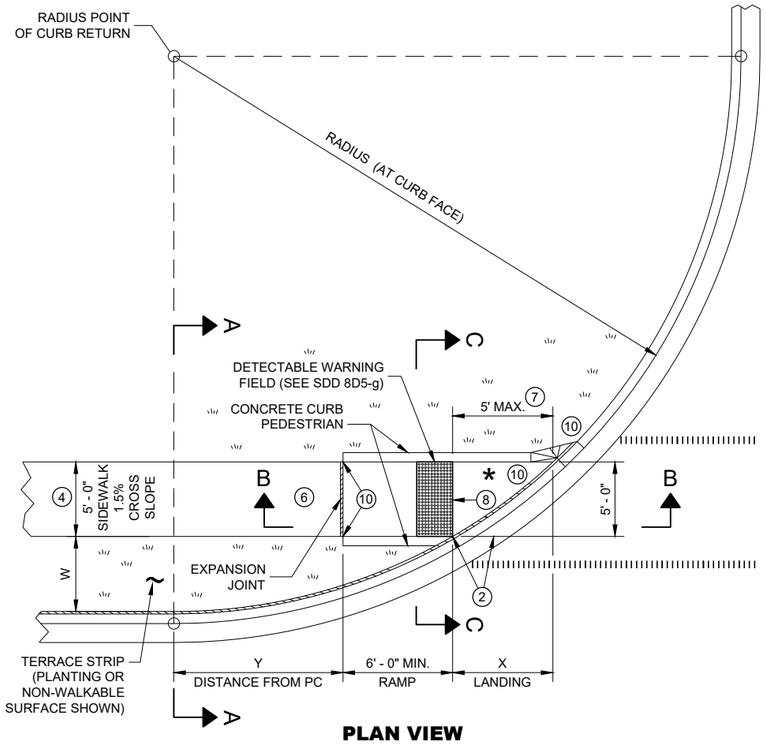
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b



PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

SECTION C - C FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

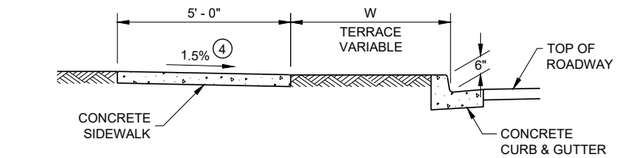
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

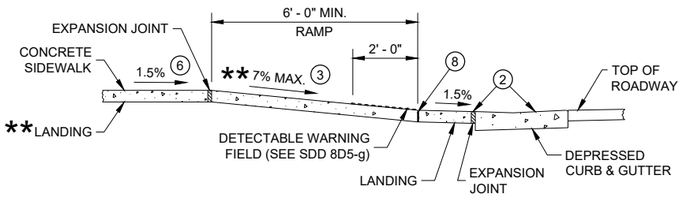
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

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



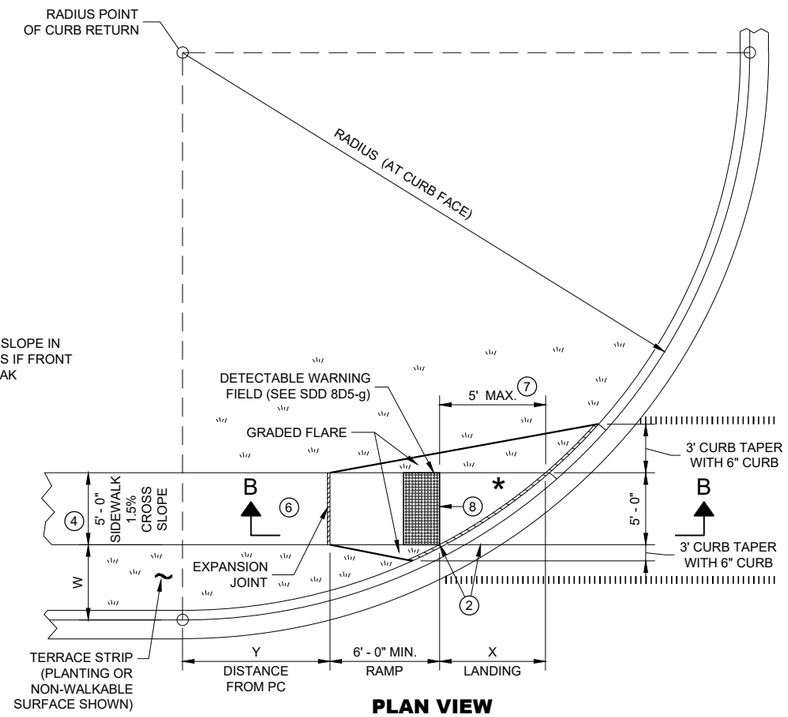
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

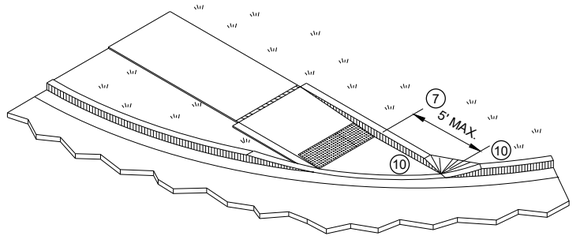
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

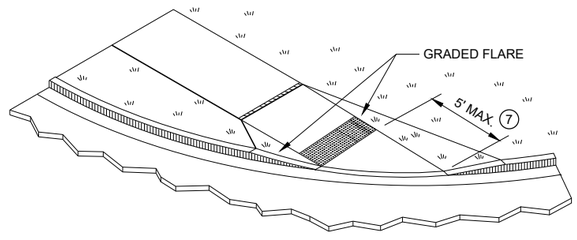


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



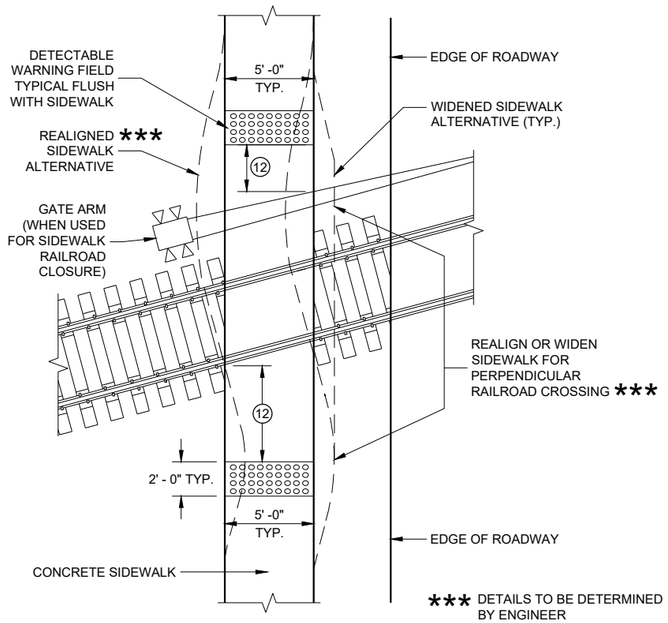
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

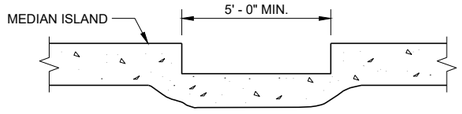
6

SDD 08D05 - 20d

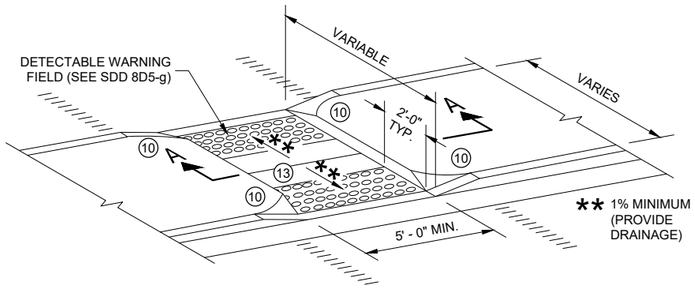


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

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

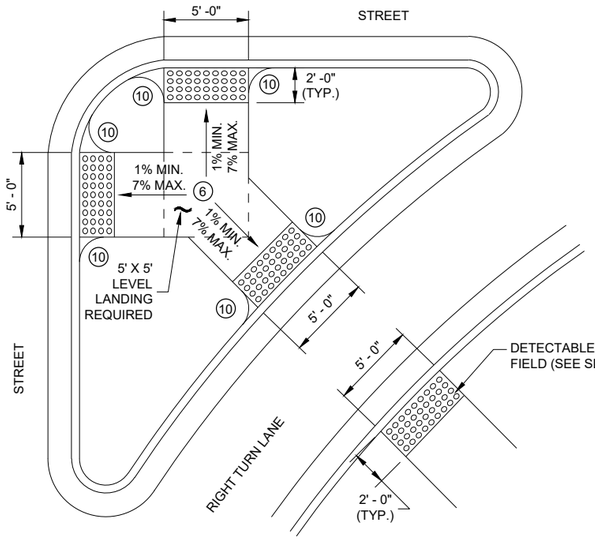
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

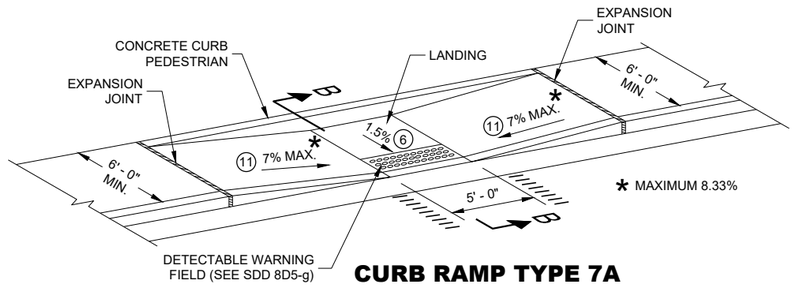
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

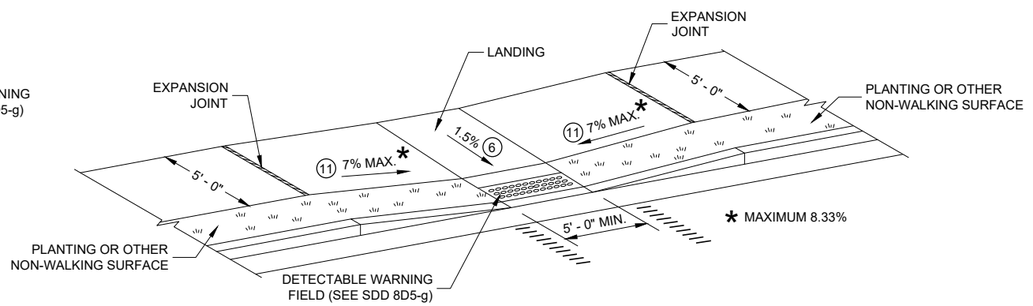
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

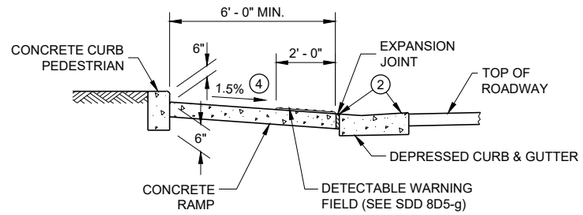
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

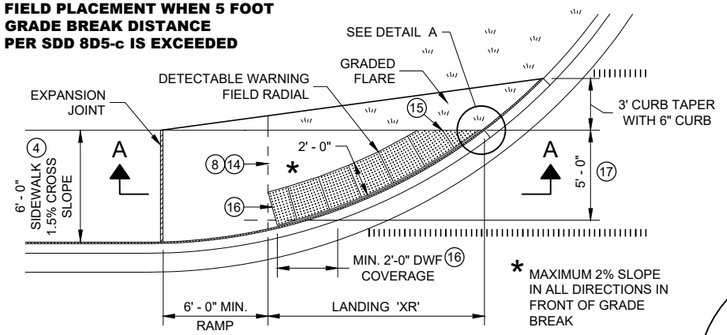
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20e

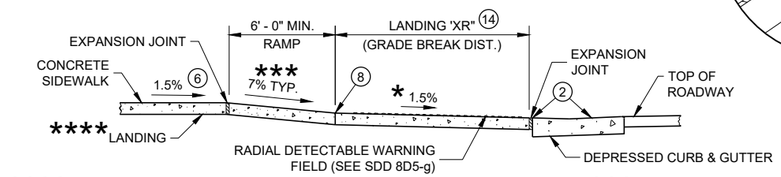
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4A1

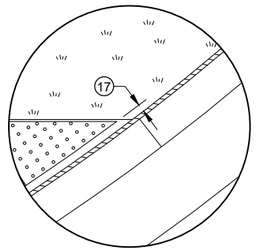
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

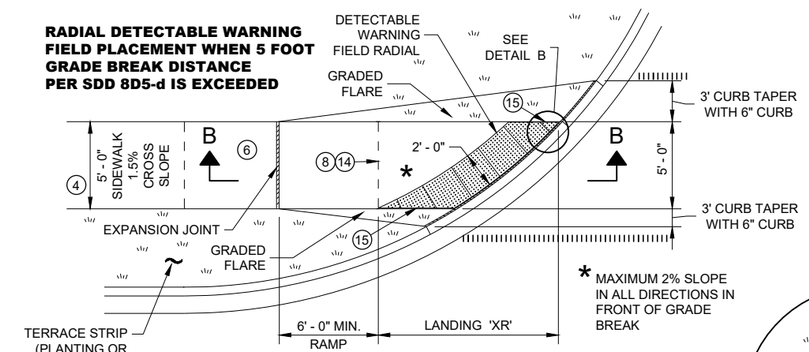
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

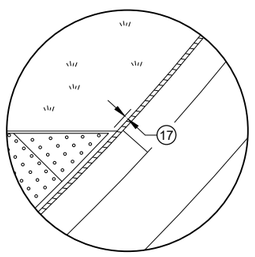
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



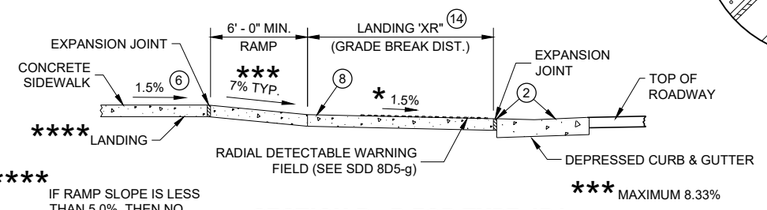
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

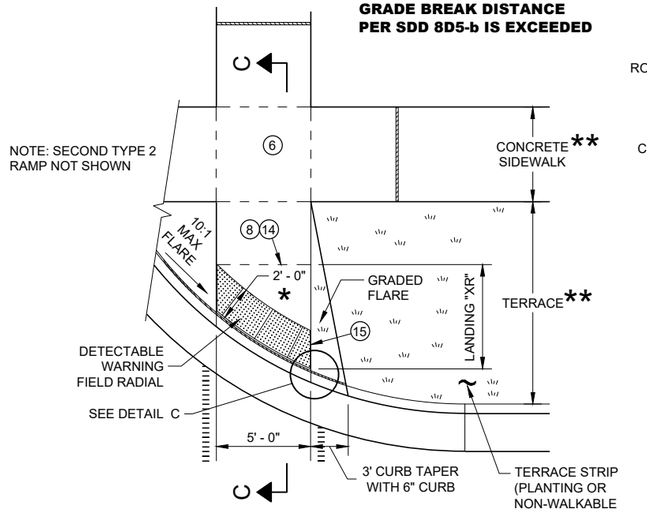


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

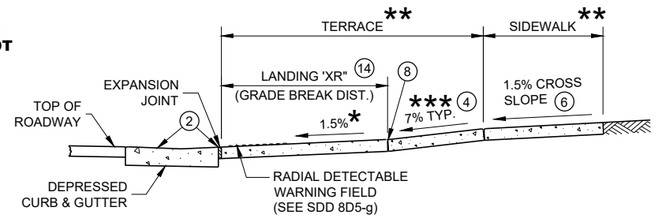


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

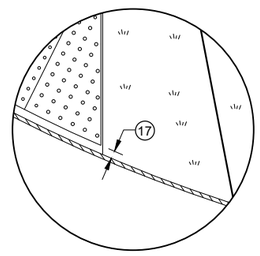


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

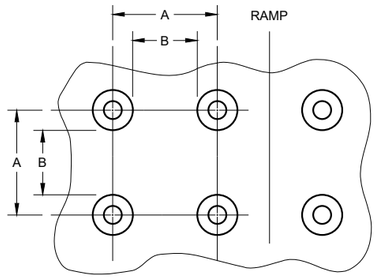
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

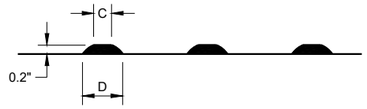
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

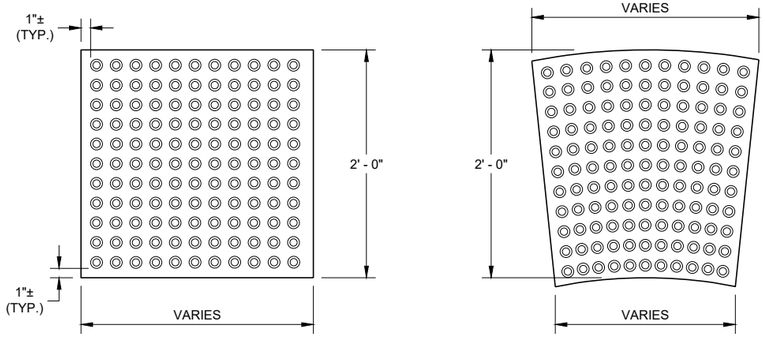


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

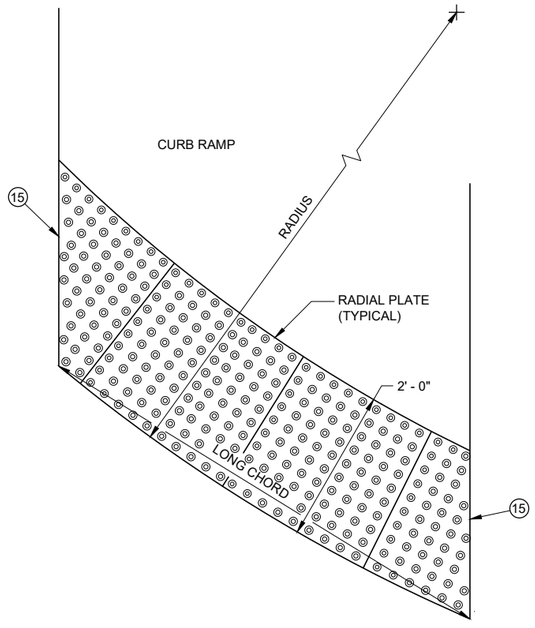
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

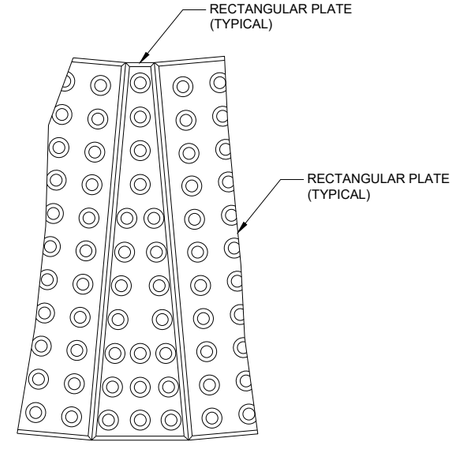
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

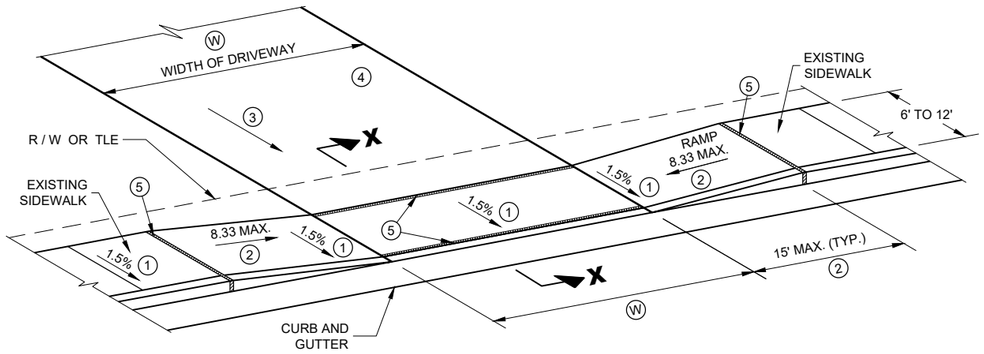
CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

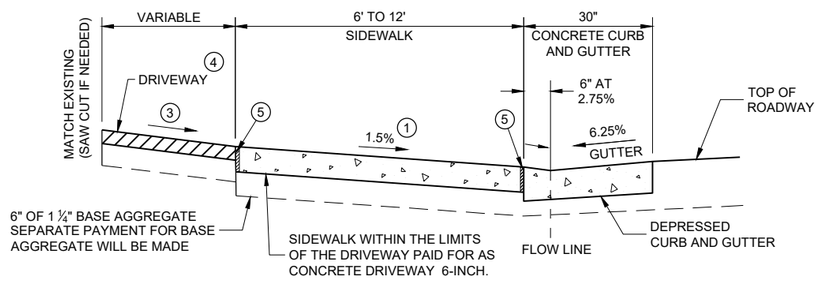
APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

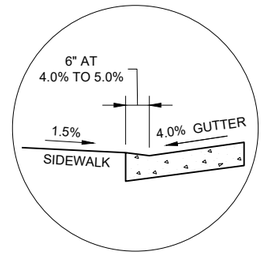
6
SDD 08D05 - 20g



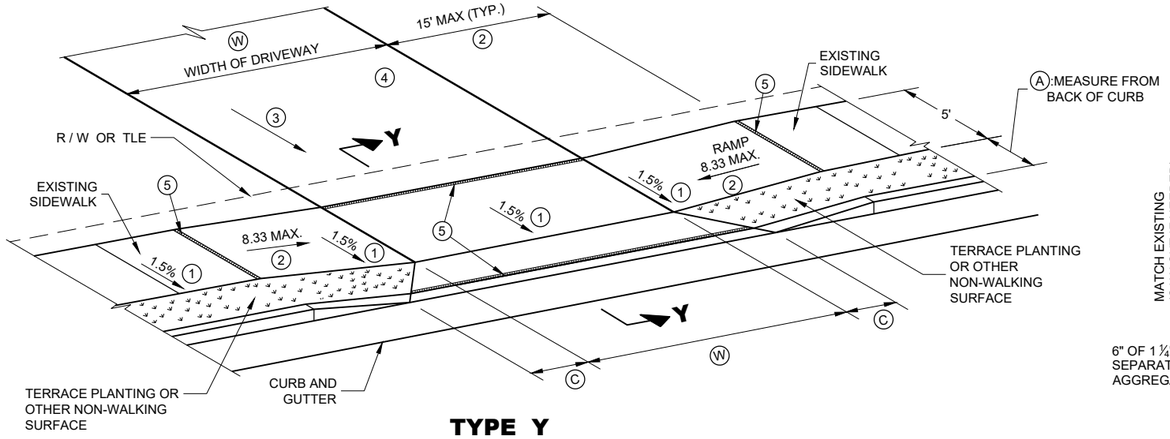
TYPE X
SIDEWALK ABUTS CURB AND GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X - X



SECTION X - X
4% GUTTER SLOPE



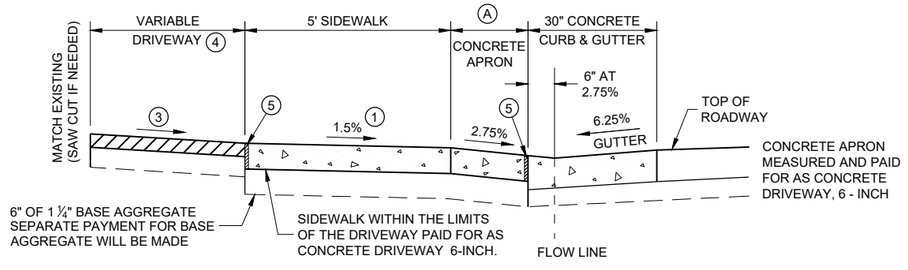
TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

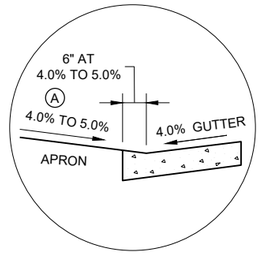
16' MIN. - 35' MAX. COMMERCIAL (CE)

TABLE Y

Ⓐ FEET	Ⓒ FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'



NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS



SECTION Y - Y
4% GUTTER SLOPE

SECTION Y - Y
DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER
(URBAN AND SUBURBAN)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

Ⓦ IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

① CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

② THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

③ DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

④ DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

⑤ ½" EXPANSION JOINT FILLER

DRIVEWAY AND SIDEWALK RAMPS TYPES X AND Y

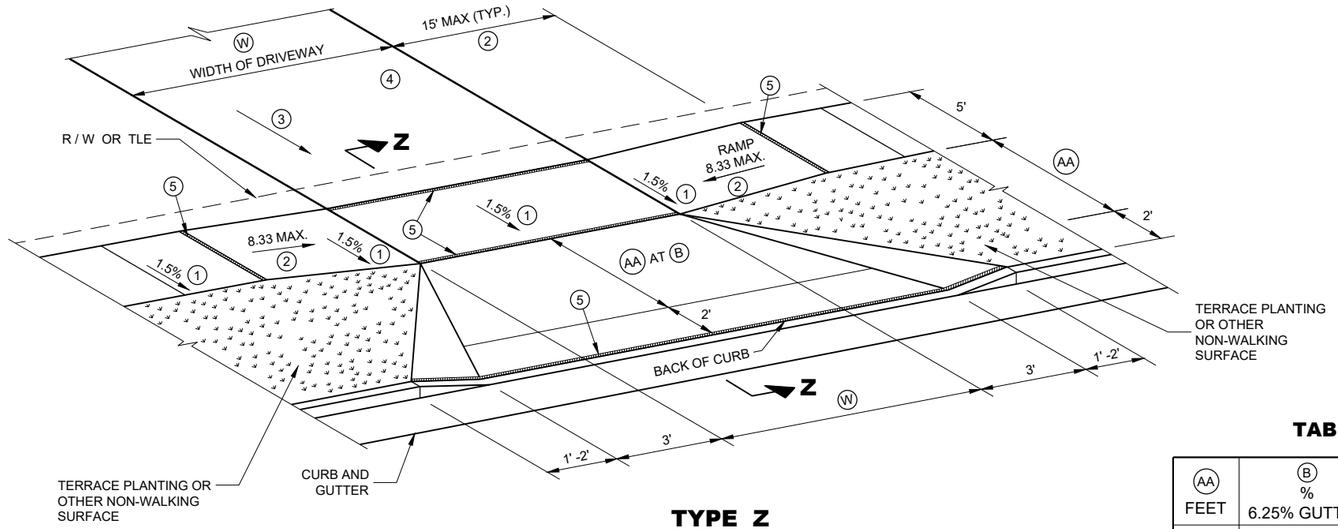
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 08D18 - 03

SDD 08D18 - 03



TYPE Z
SIDEWALK WITH WIDER TERRACE
TERRACE VARIES 7 TO 12 FEET

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

Ⓦ IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
10.5% UP AWAY FROM SIDEWALK (SAG)
8.5% DOWN AWAY FROM SIDEWALK (CREST)
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

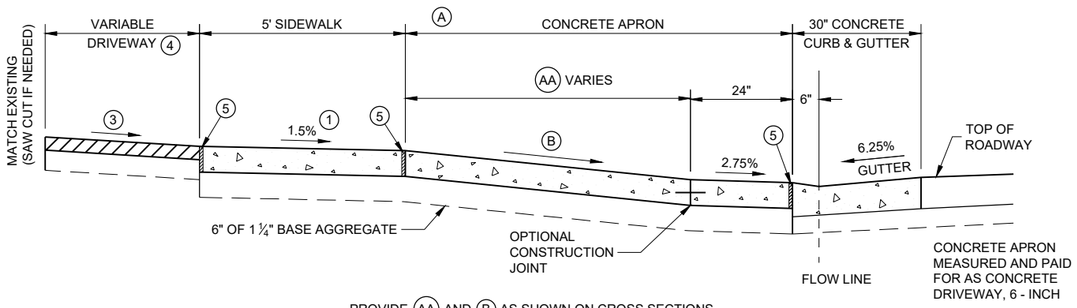
(5) ½" EXPANSION JOINT FILLER.

TABLE Z

(AA) FEET	(B) % 6.25% GUTTER	(B) % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

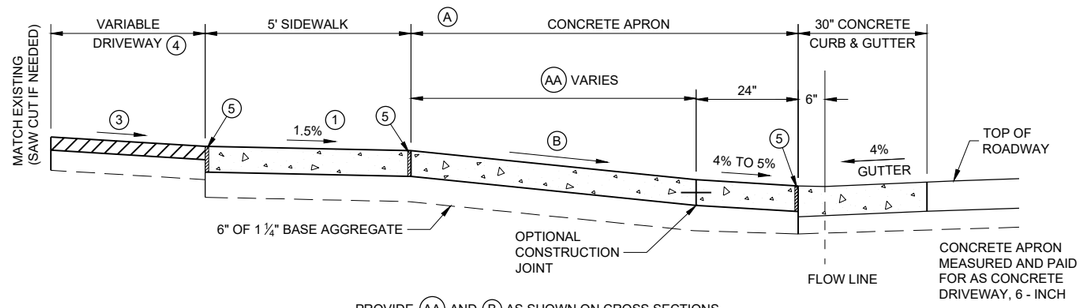
Ⓦ: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

6.25% GUTTER SLOPE



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

4% GUTTER SLOPE

NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS FOR (B) VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

SECTION Z - Z

DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER

(URBAN AND SUBURBAN)

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 08D19 - 03

GENERAL NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

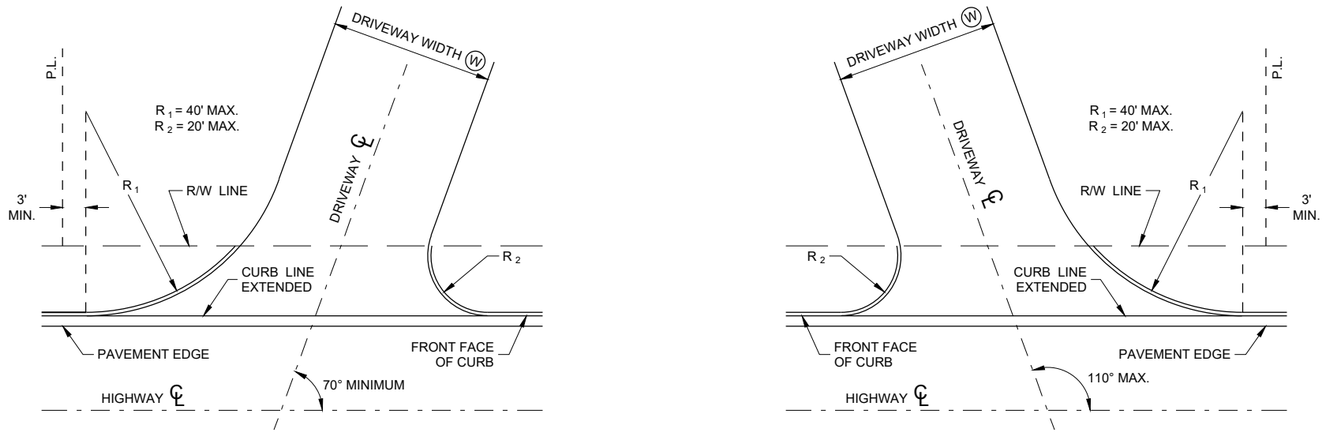
THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

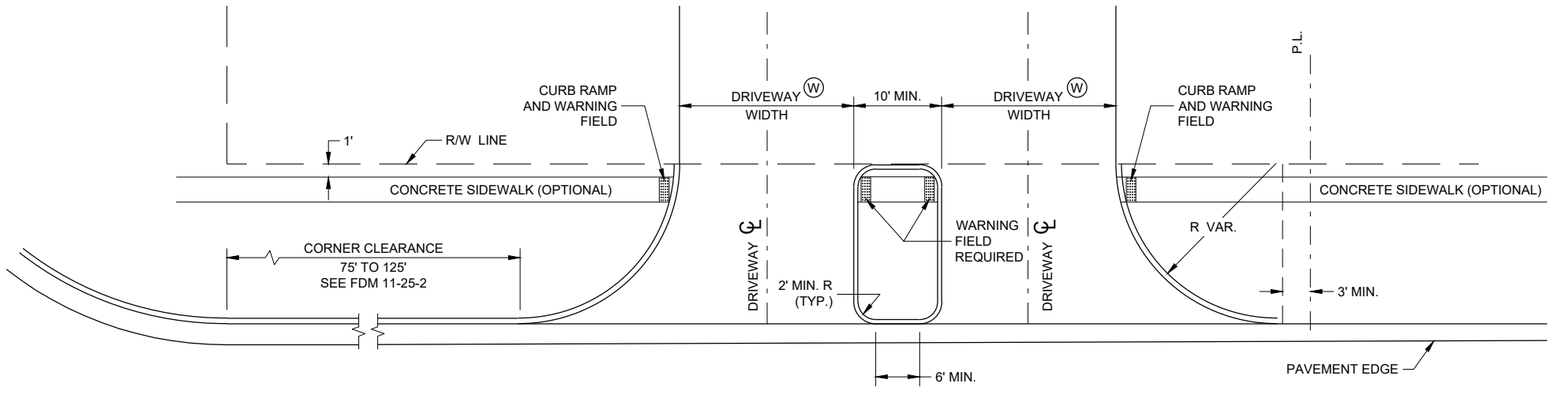
Ⓦ: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)



SKEWED DRIVEWAY DETAILS (COMMERCIAL AND NON-COMMERCIAL)

SIDEWALK NOT SHOWN



DRIVEWAY LOCATION AND SPACING DETAILS

SIDEWALK SHOWN

DRIVEWAYS WITH CURB AND GUTTER RETURNS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

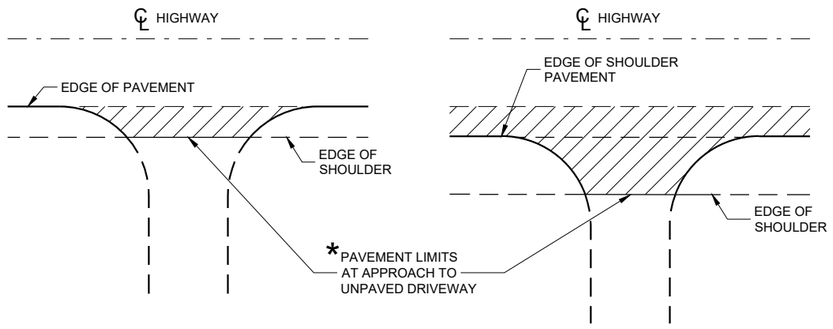
00-00-00
DATE

/S/ <AUTHOR>
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

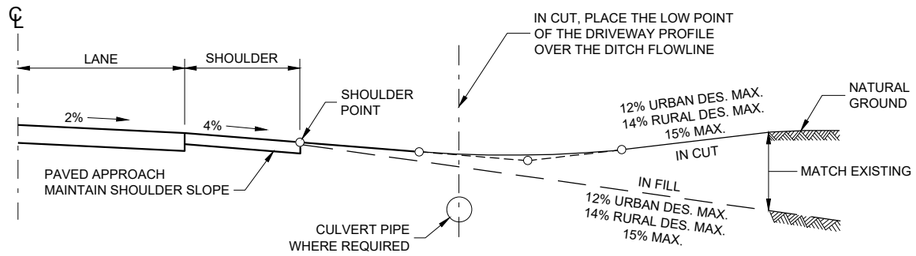
SDD 08D20 - 01



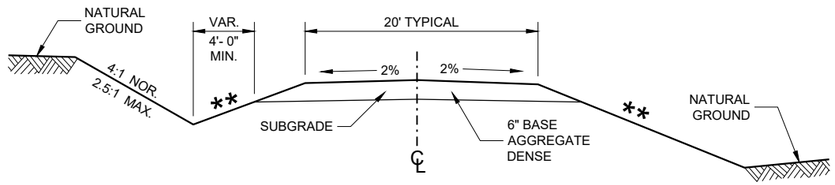
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

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



TYPICAL DRIVEWAY PROFILES

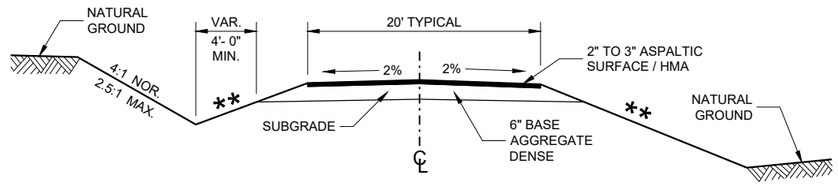


IN CUT **IN FILL**

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

6

6

SDD 08D21 - 01

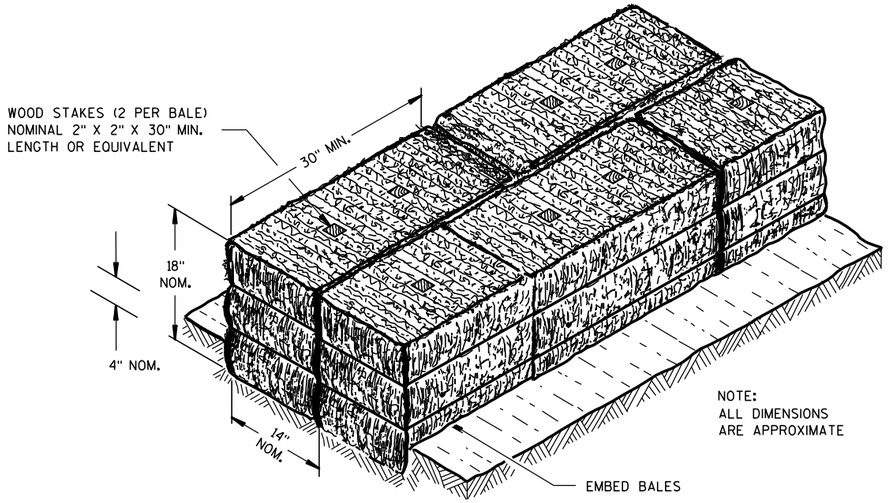
SDD 08D21 - 01

DRIVEWAYS WITHOUT CURB AND GUTTER

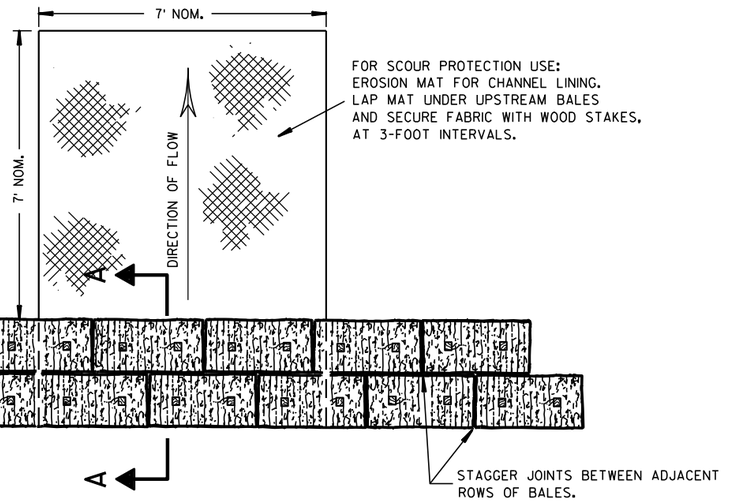
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

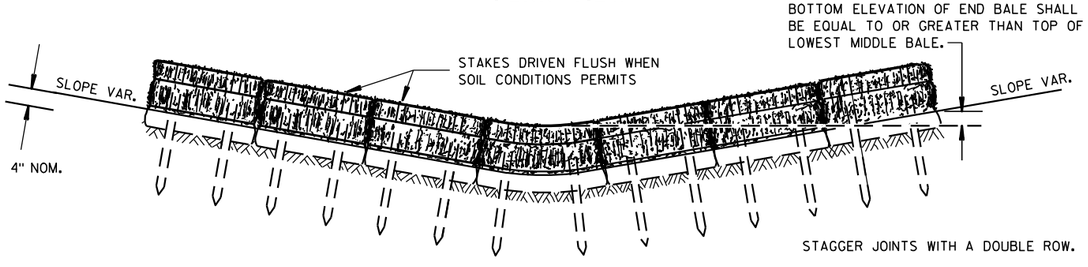
FHWA



SECTION A-A



PLAN VIEW



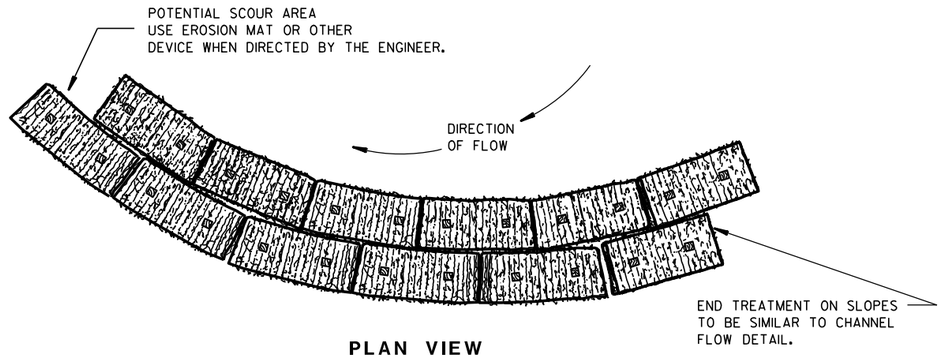
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

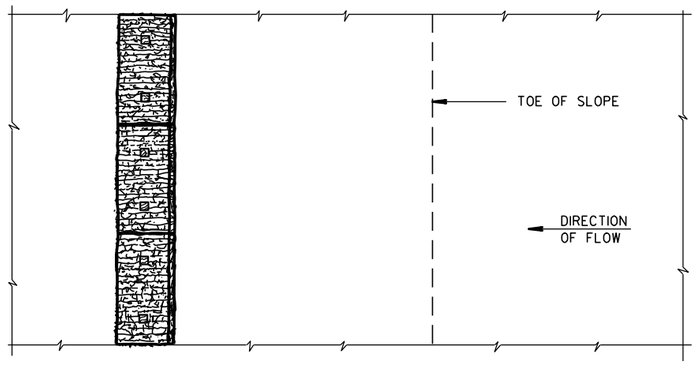
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

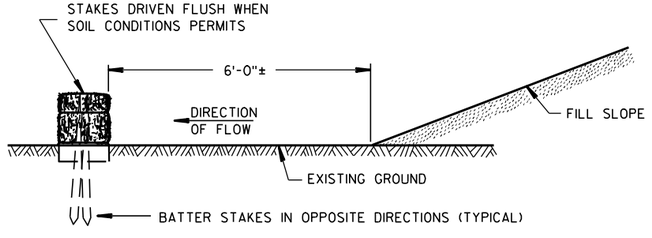


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

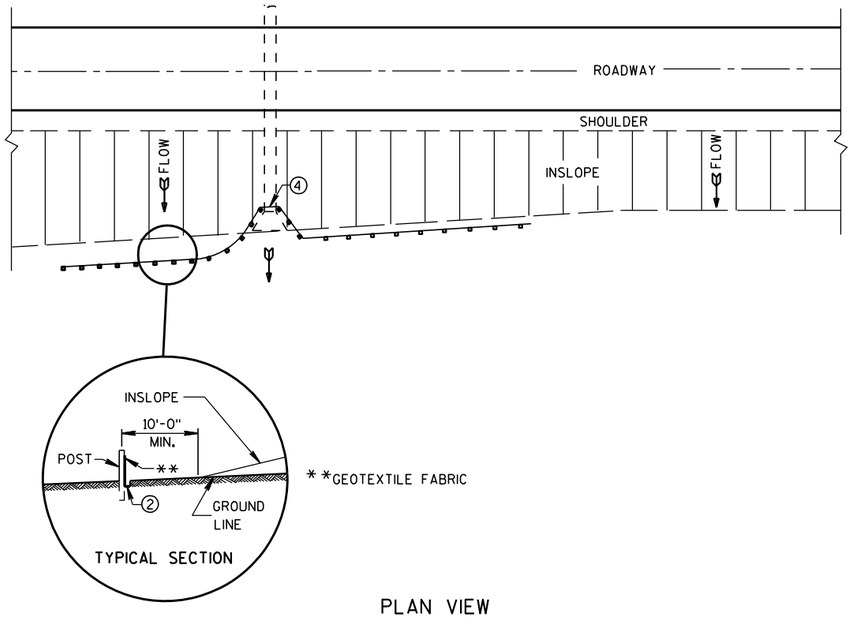
FHWA

6

S.D.D. 8 E 8-3

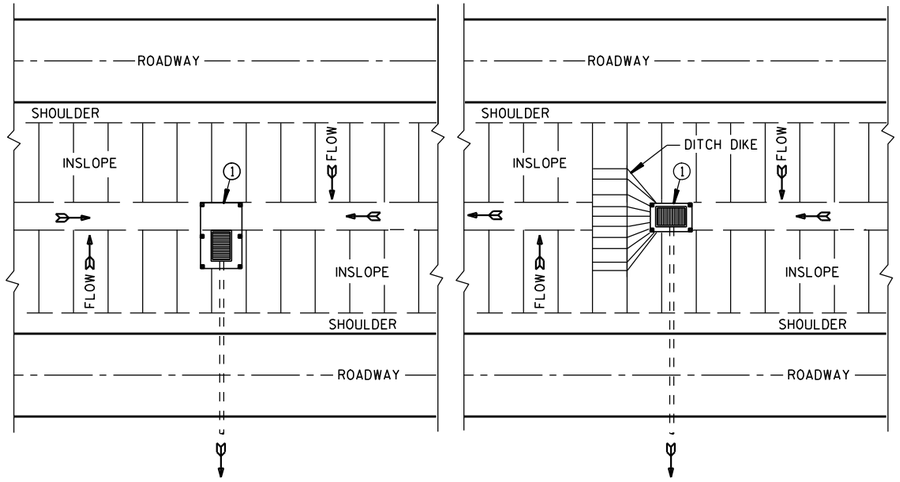
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



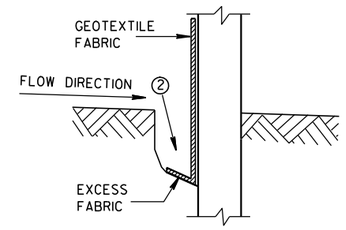
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

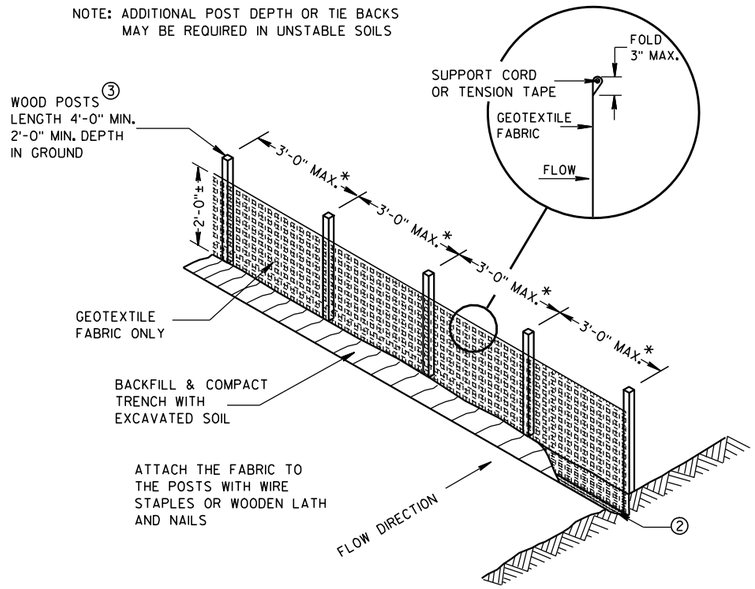
GENERAL NOTES

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

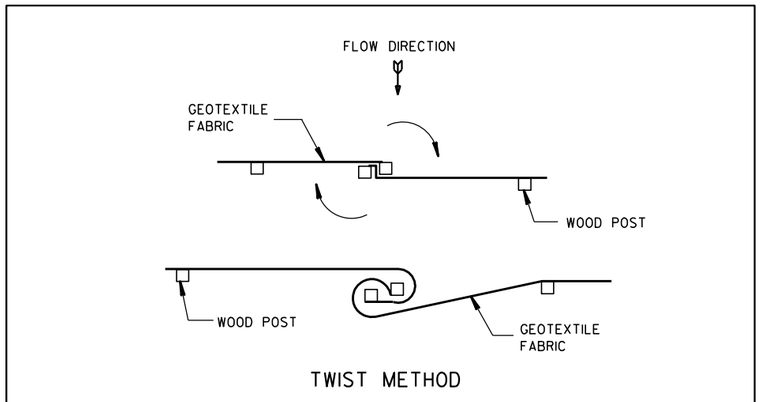
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL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



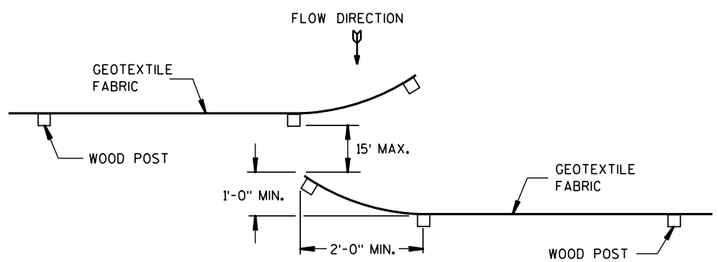
TRENCH DETAIL



SILT FENCE

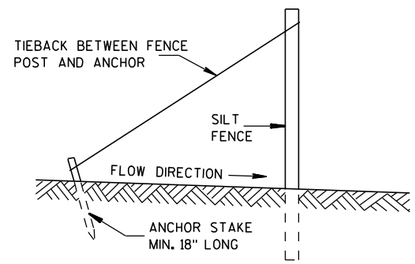


TWIST METHOD



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

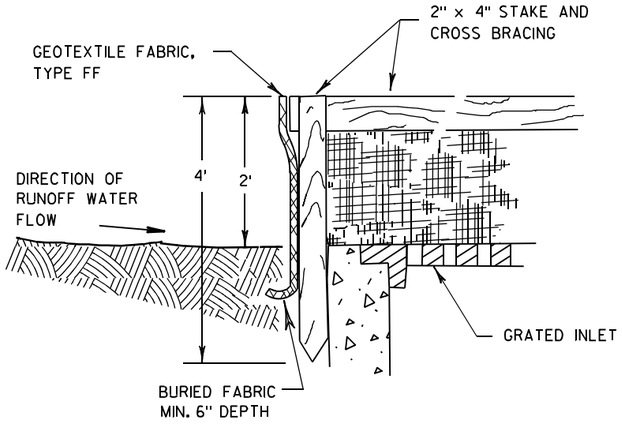
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

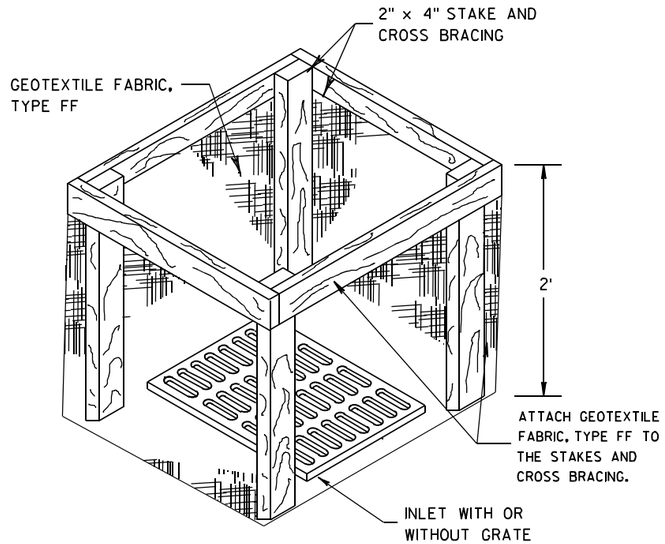
6

S.D.D. 8 E 9-6

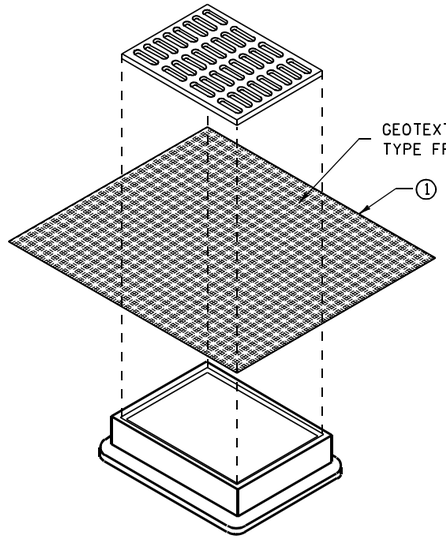
6

S.D.D. 8 E 9-6



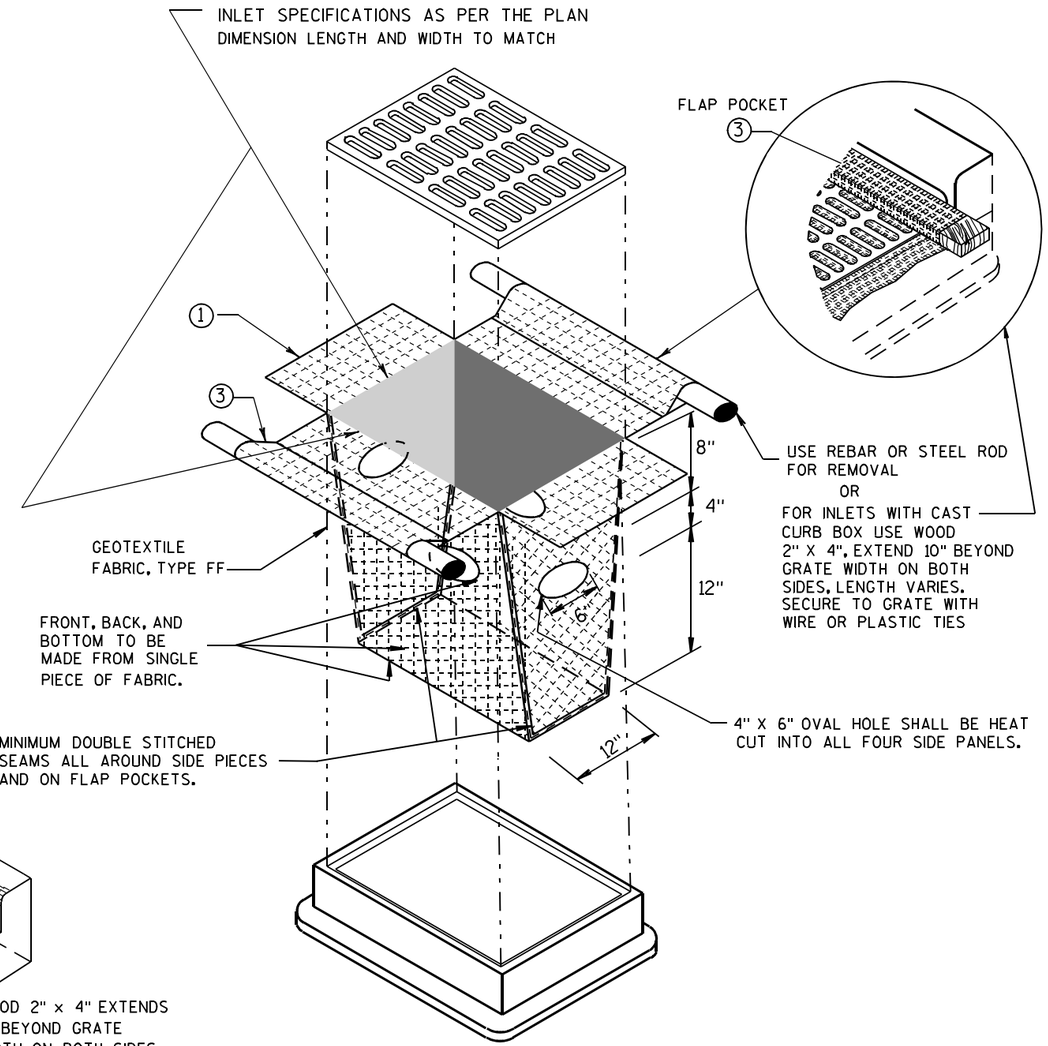


INLET PROTECTION, TYPE A



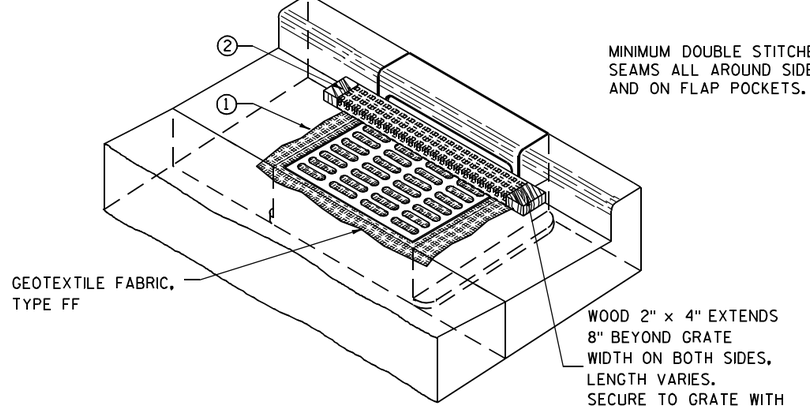
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

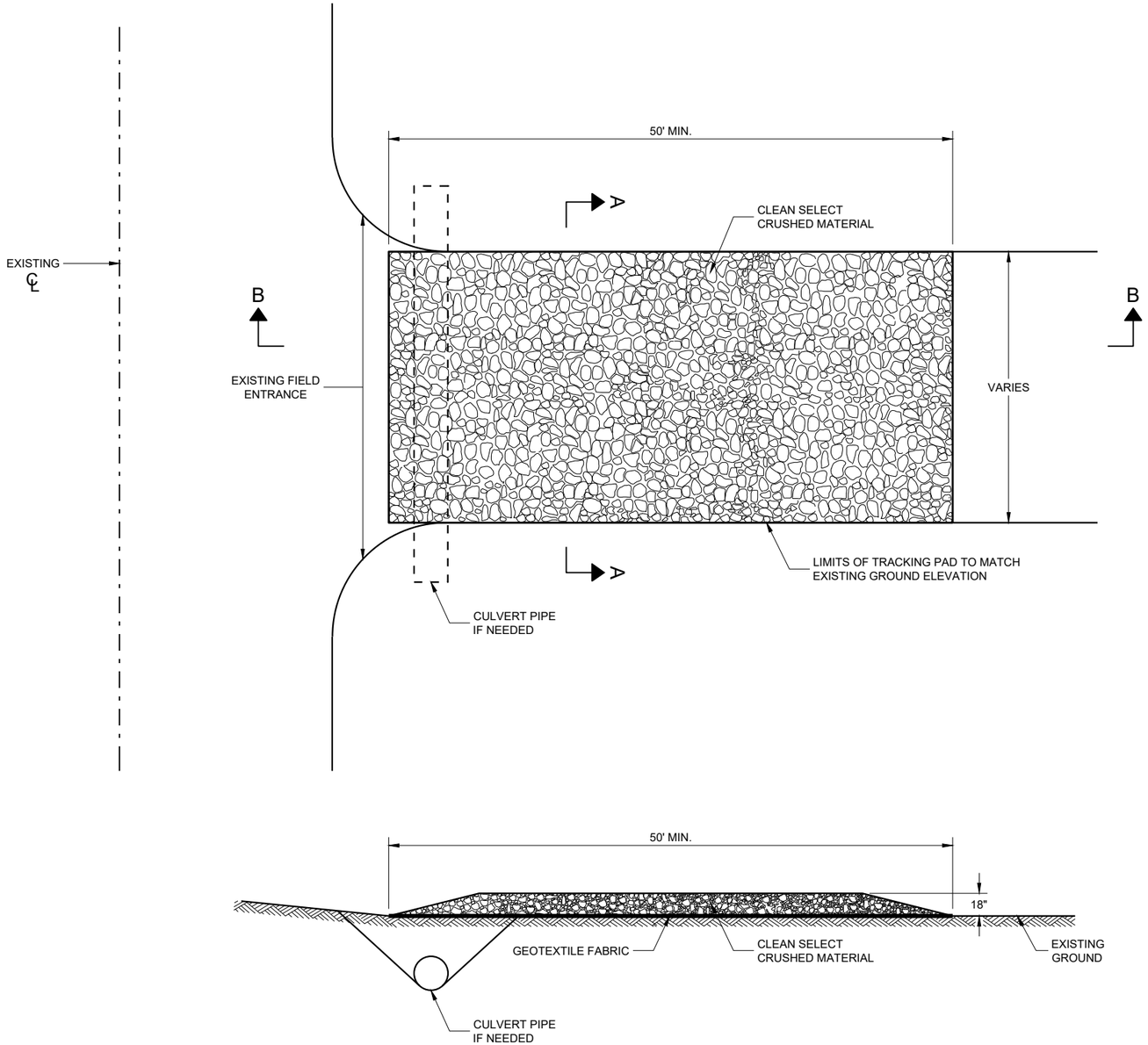
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



SECTION B - B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

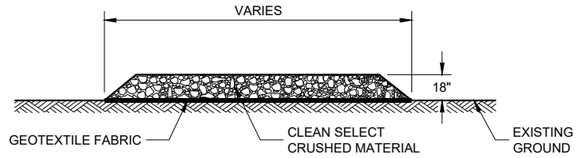
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

6

SDD 08E14 - 01

TRACKING PAD

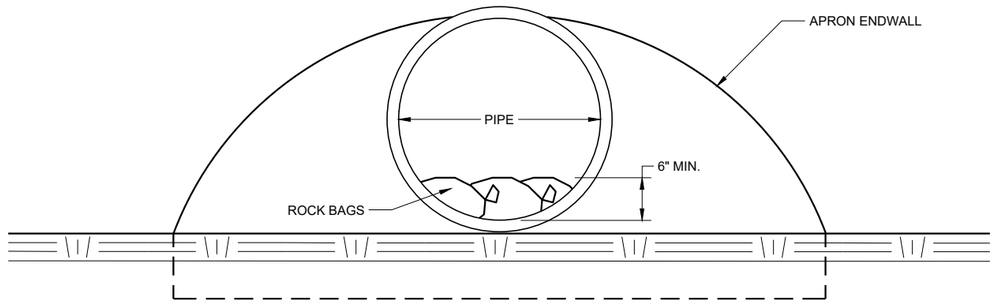
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

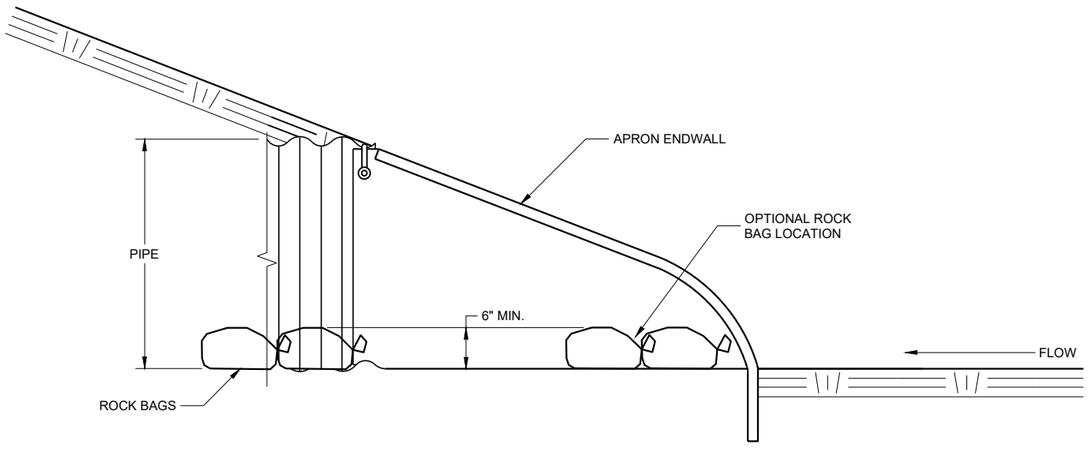
FHWA

6

SDD 08E14 - 01



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

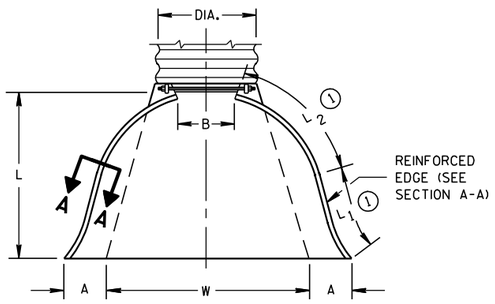
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

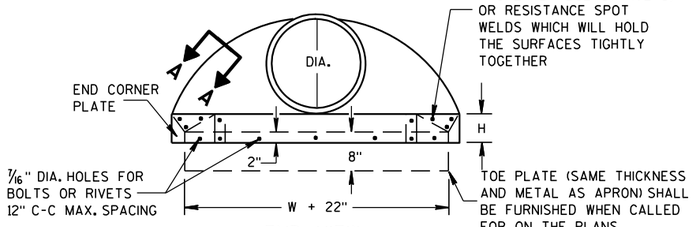
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

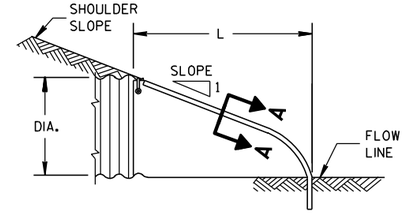
*MINIMUM
**MAXIMUM



PLAN VIEW

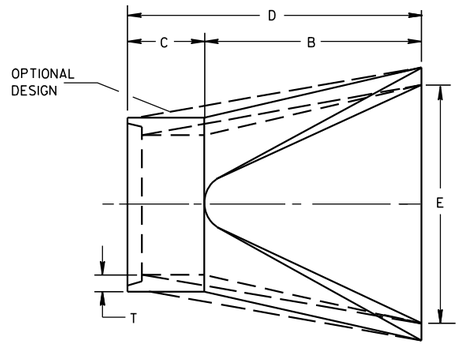


END VIEW

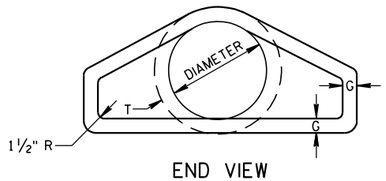


SIDE ELEVATION

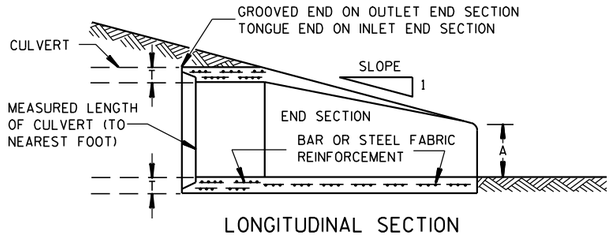
METAL ENDWALLS



PLAN

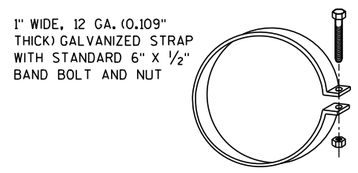


END VIEW



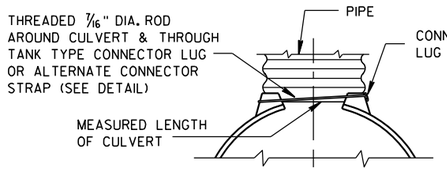
LONGITUDINAL SECTION

CONCRETE ENDWALLS

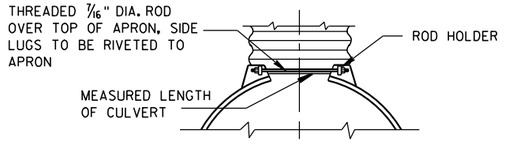


ALTERNATE FOR TYPE 1 CONNECTION

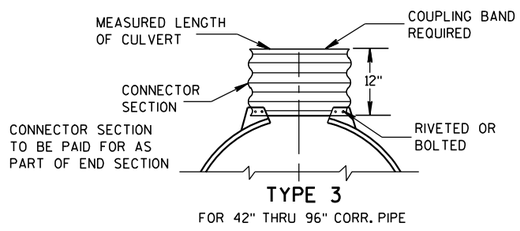
END SECTION CONNECTOR STRAP



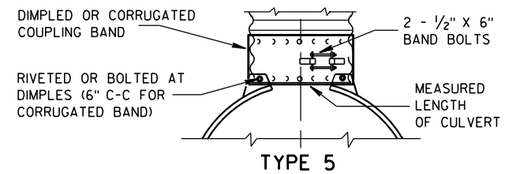
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

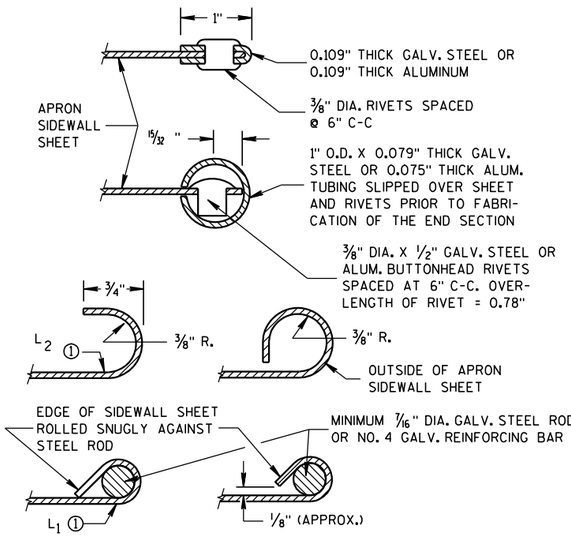
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

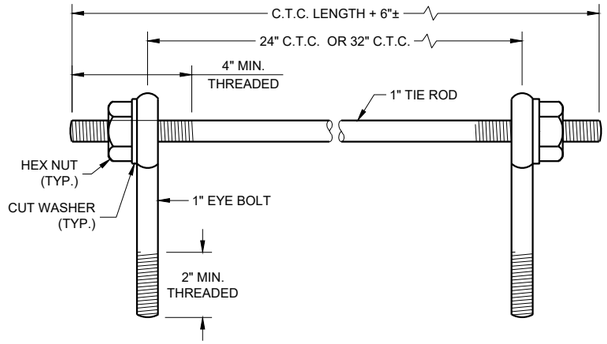
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

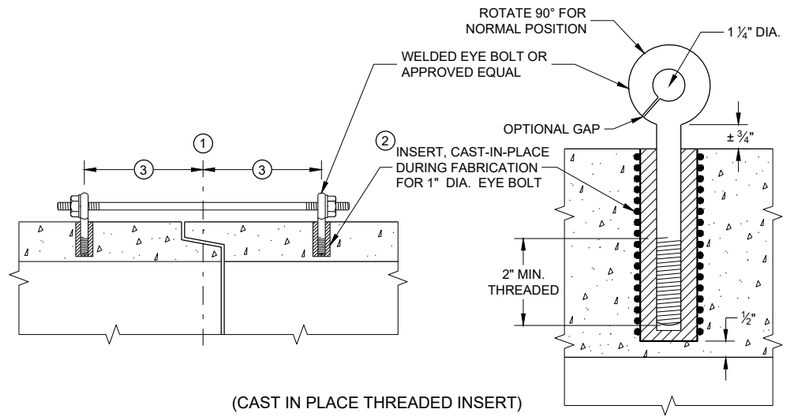
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
S.D.D. 8 F 1-11



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.

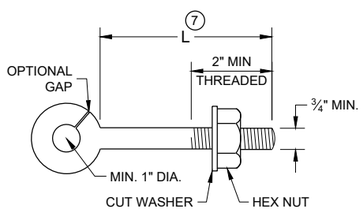
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

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

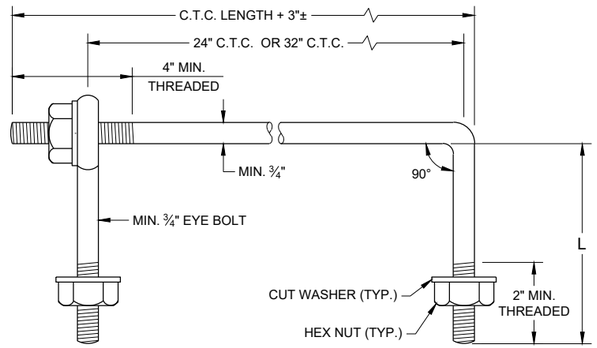
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

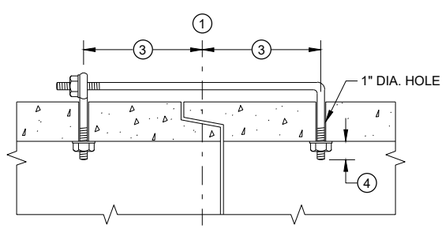


EYE BOLT (7)

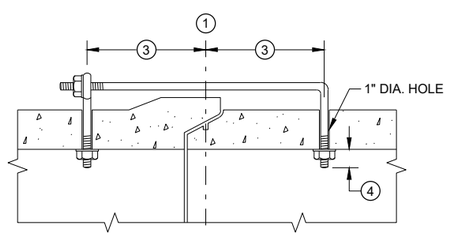
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

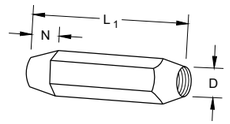
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

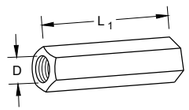
ADJUSTABLE TIE ROD TABLE

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



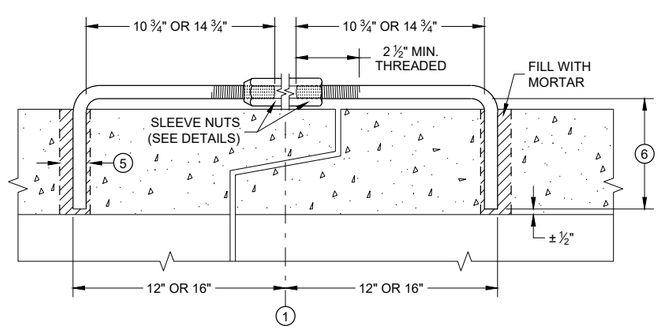
TAPERED



PLAIN

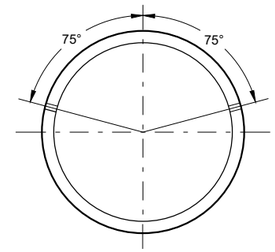
RIGHT AND LEFT THREADS

SLEEVE NUTS



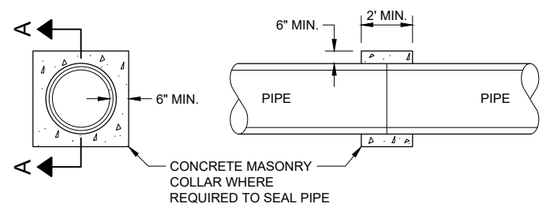
LONGITUDINAL SECTION

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

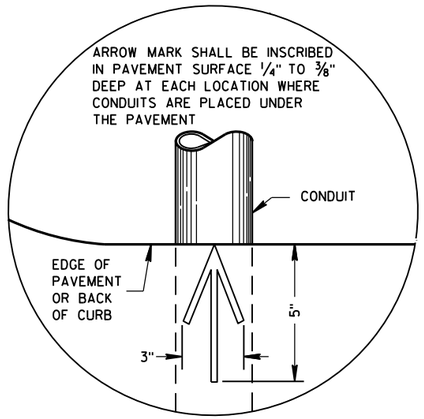
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

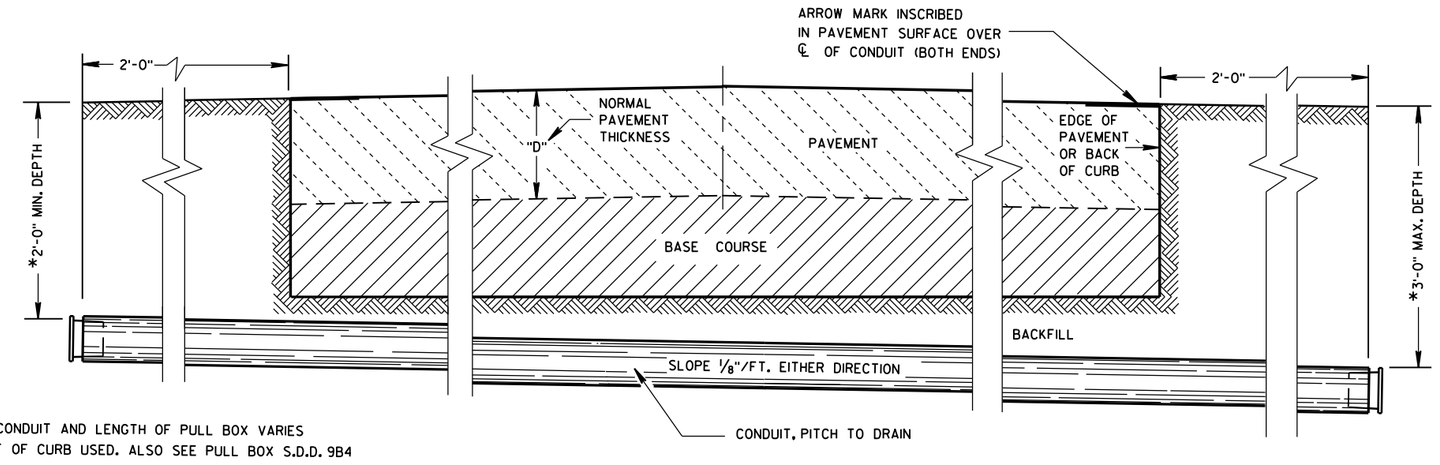
SDD 08F04 - 08

SDD 08F04 - 08



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

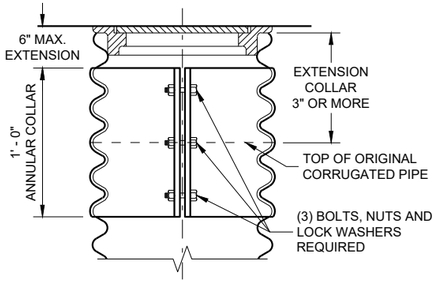
CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

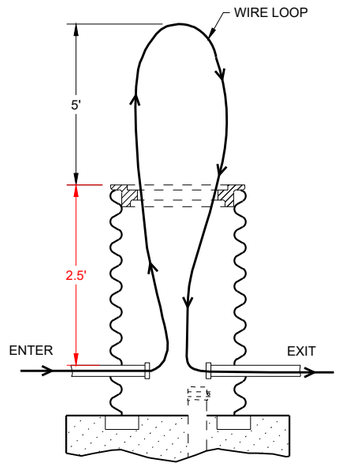
APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

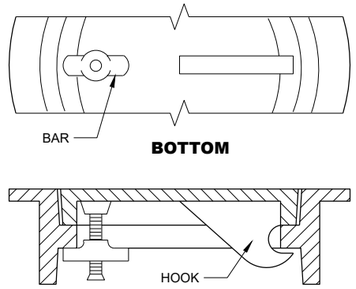
S.D.D. 9 B 2-10



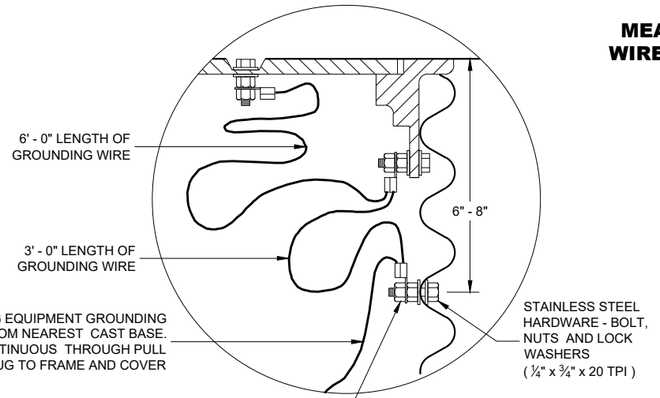
CORRUGATED PIPE EXTENDER



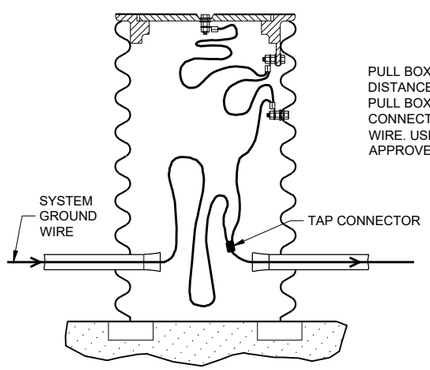
MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



ALTERNATE COVER (LOCKING)
TIGHTENING BAR TYPE

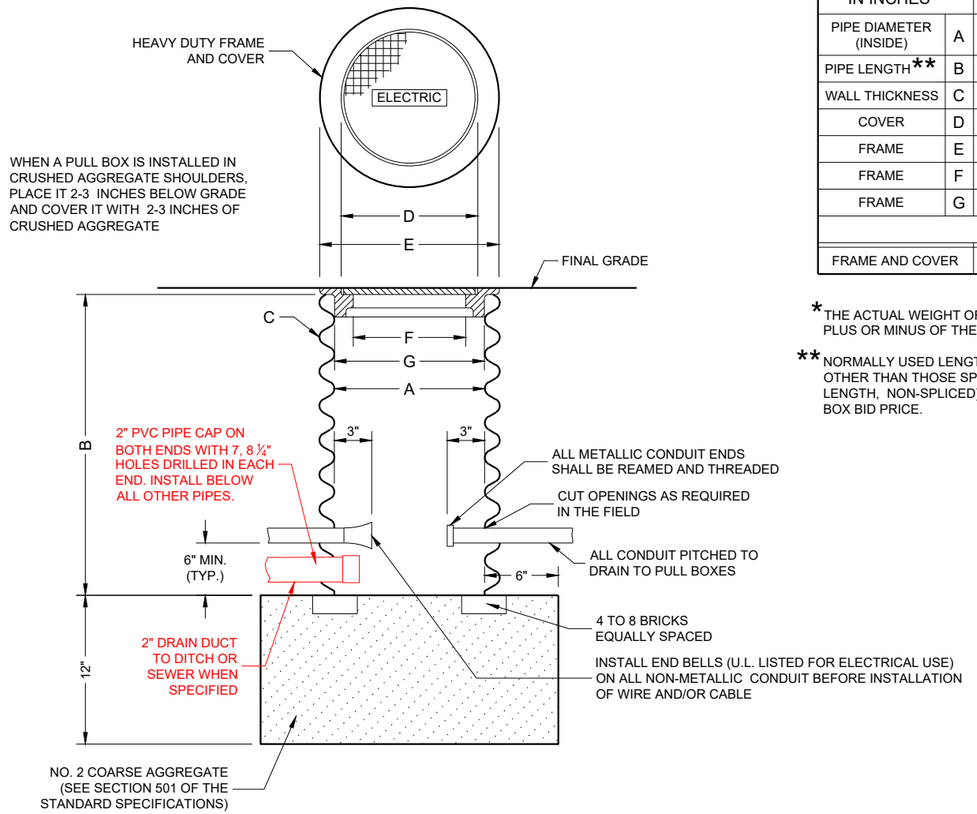


EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH**	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 ¼	10 ¼	10 ¼	16 ¼	16 ¼	16 ¼	22 ¼	22 ¼	22 ¼
FRAME	E	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½	26 ½	26 ½	26 ½
FRAME	F	8 ½	8 ½	8 ½	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½
FRAME	G	11 ½	11 ½	11 ½	17 ½	17 ½	17 ½	23 ½	23 ½	23 ½
WEIGHT IN POUNDS*										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

*THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

**NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 237

FHWA

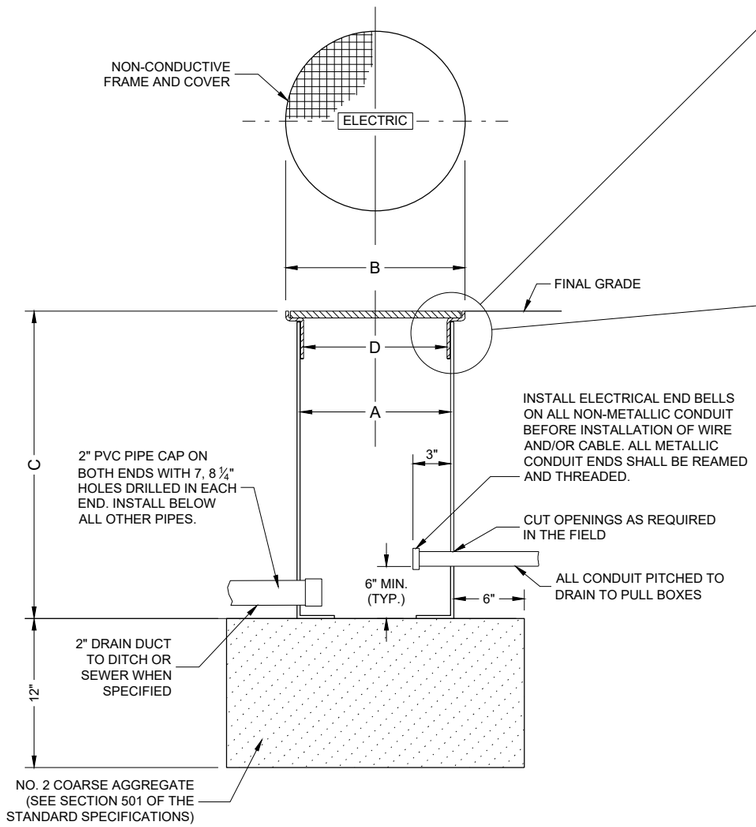
6
SDD 09B04 -12

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

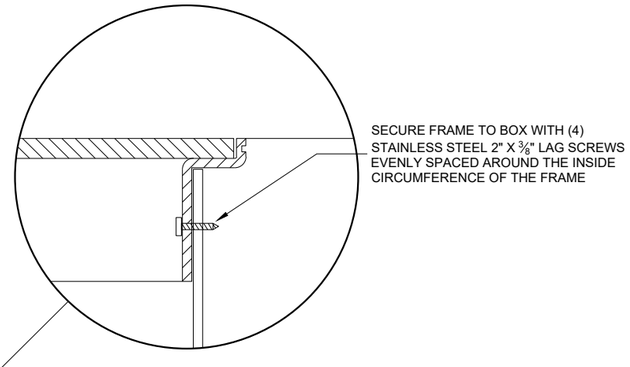
DIMENSION IN INCHES		NON- CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 ½	22 ½
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

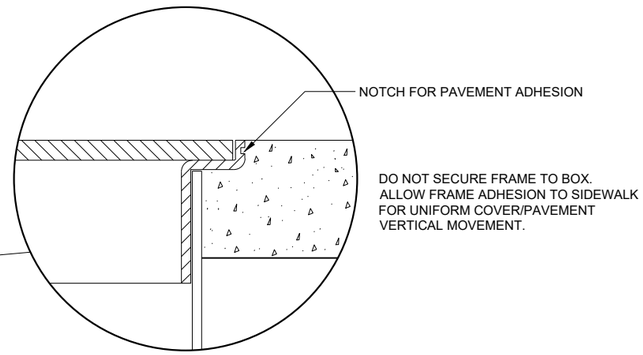
** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE.



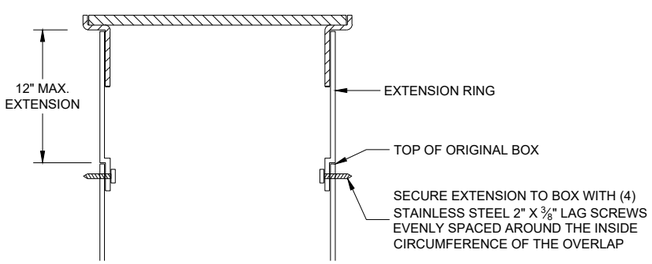
NON-CONDUCTIVE PULL BOX



INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



BOX EXTENSION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN ½" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN ¼".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

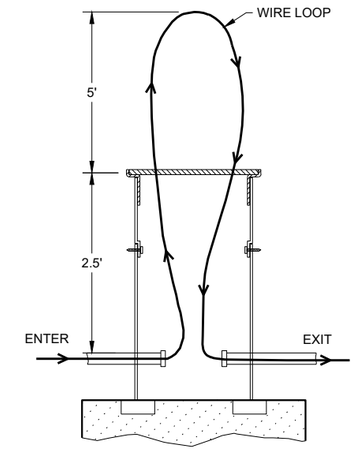
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE.

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

6

6

SDD 09B16 - 02

SDD 09B16 - 02

PULL BOXES NON-CONDUCTIVE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

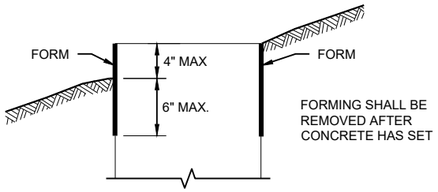
APPROVED
May 2022
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

238

FHWA

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

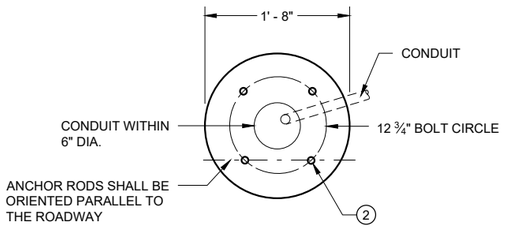
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

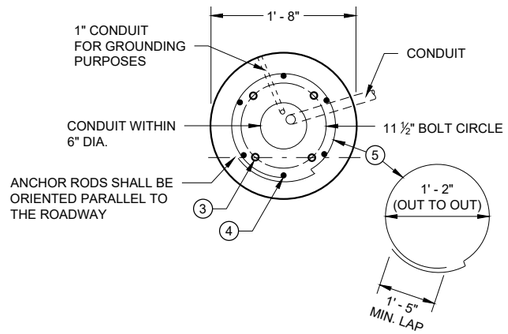
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

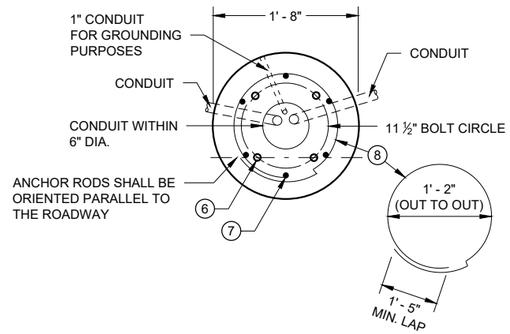
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

(2) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(3) (4) 1" DIA. X 5' - 0" ANCHOR RODS.

(4) (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

(5) (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

(6) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(7) (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

(9) EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

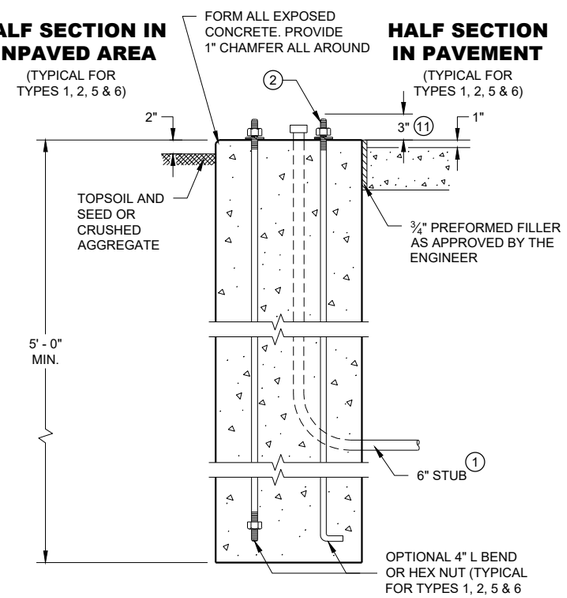
(10) ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

(11) ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

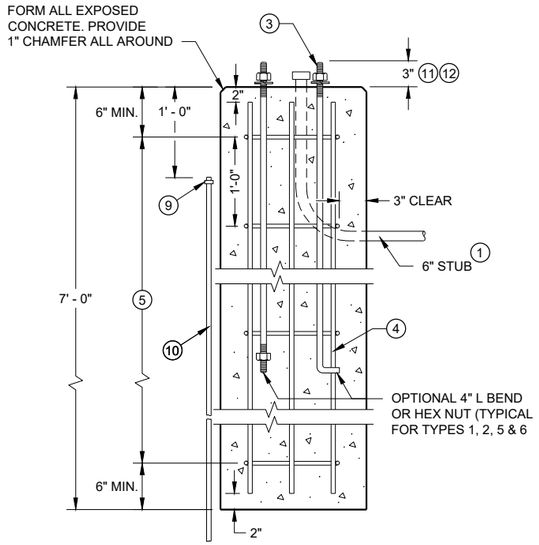
(12) FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

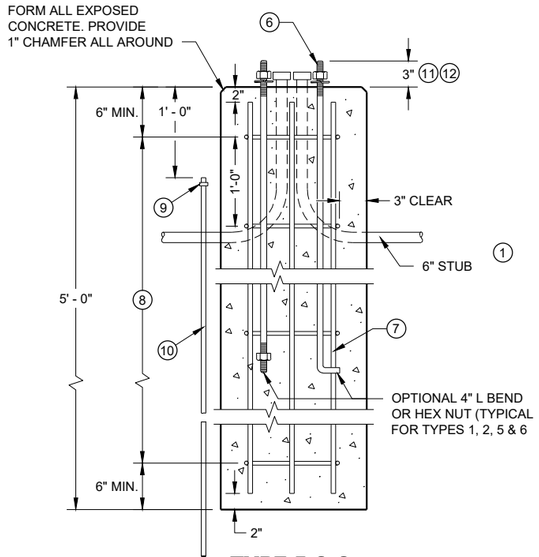
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

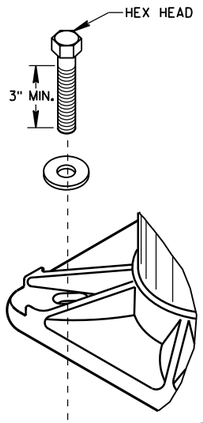
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

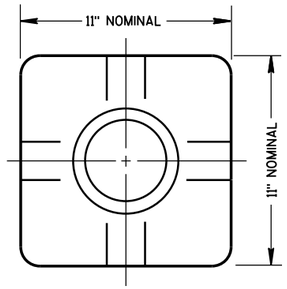
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

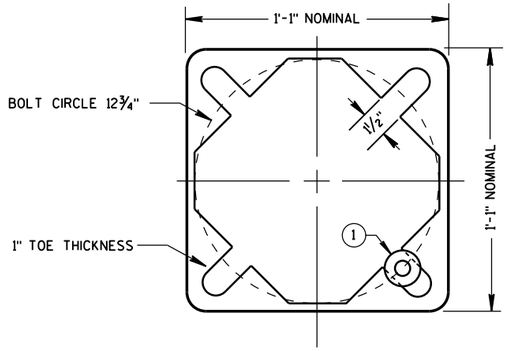
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

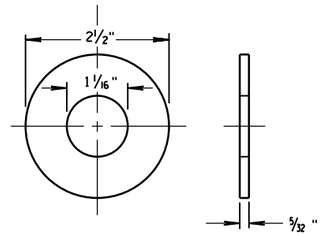




TOP VIEW
(PEDESTAL BASE)

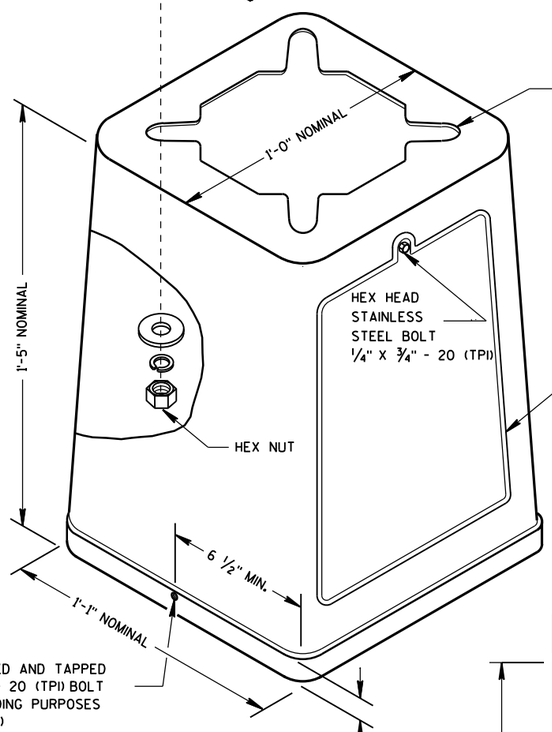


BOTTOM VIEW
(PEDESTAL BASE)

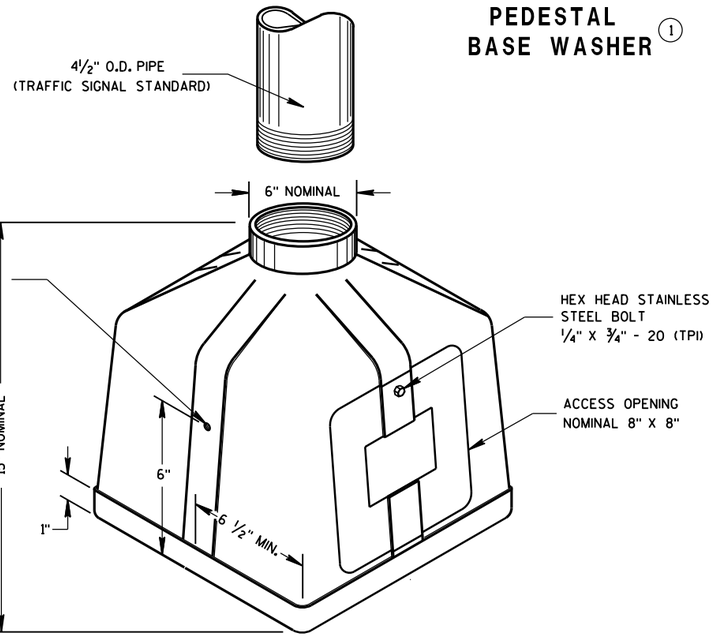


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

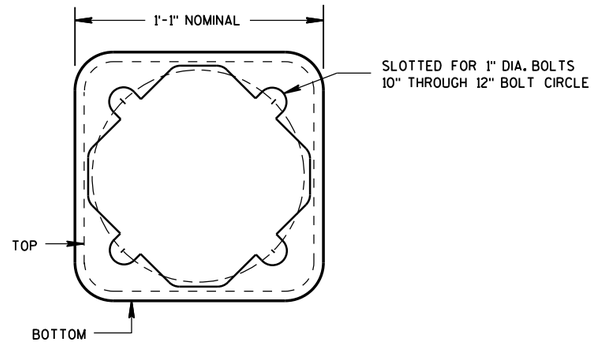
PEDESTAL BASE WASHER (1)



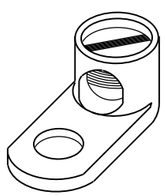
ISOMETRIC VIEW



ISOMETRIC VIEW
PEDESTAL BASE

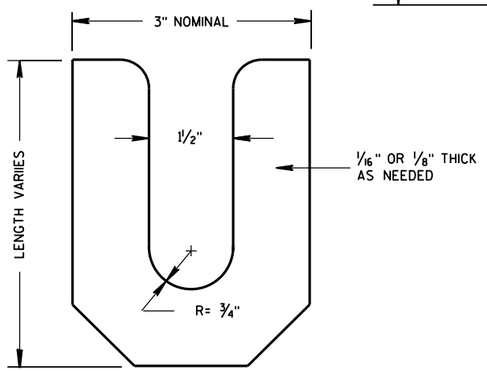


BOTTOM VIEW
(TRANSFORMER BASE)



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

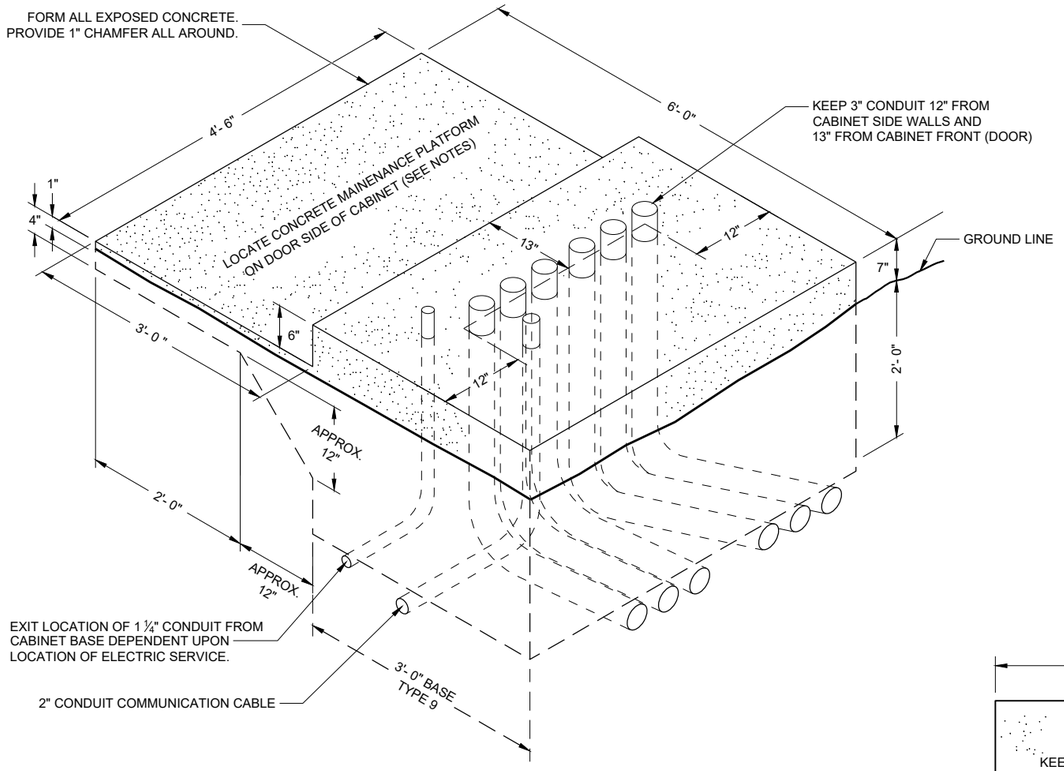
6

S.D.D. 9 C 3-4

6

S.D.D. 9 C 3-4

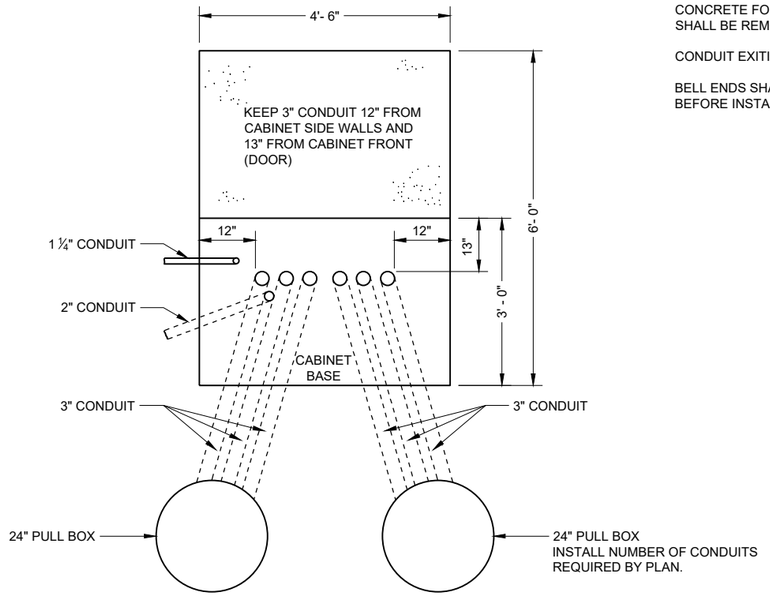
SDD 09C06 Concrete Control Cabinet Base, Type 9, Special



ISOMETRIC VIEW

TYPE 9 SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9 SPECIAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE (SIX 3") SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

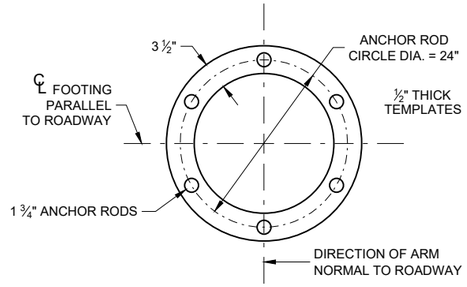
CONCRETE CONTROL CABINET BASE TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

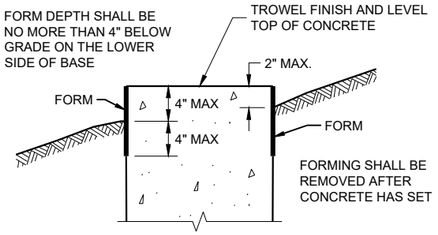
APPROVED
September 2014
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 241

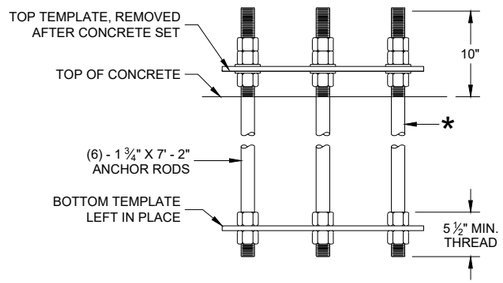
FHWA



TOP AND BOTTOM TEMPLATE



FORMING DETAIL



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 11" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE TYPE 13

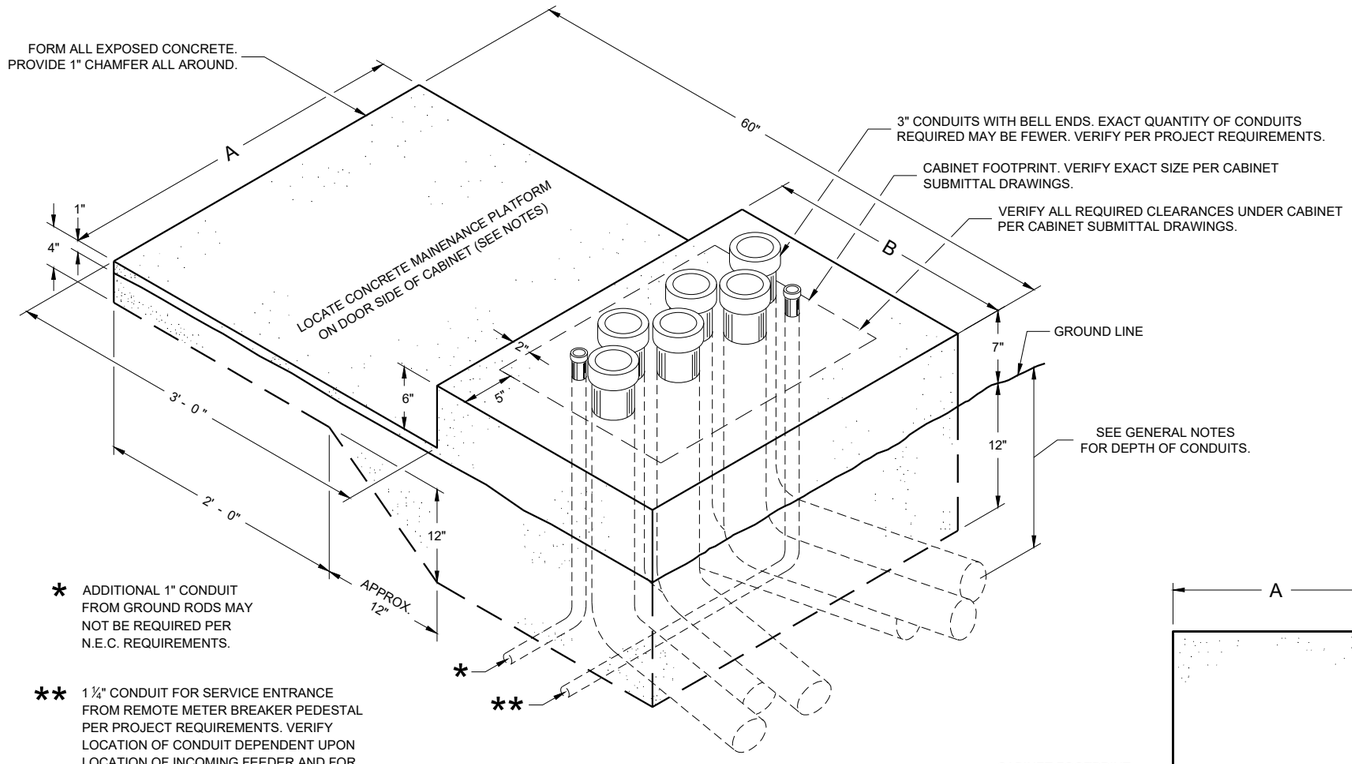
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017
DATE
/S/ Ahmet Demirbilek
WIND LOADED STRUCTU
PROGRAM LEADER
FHWA

6

SDD 09C12 - 09b

SDD 09C12 - 09b



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

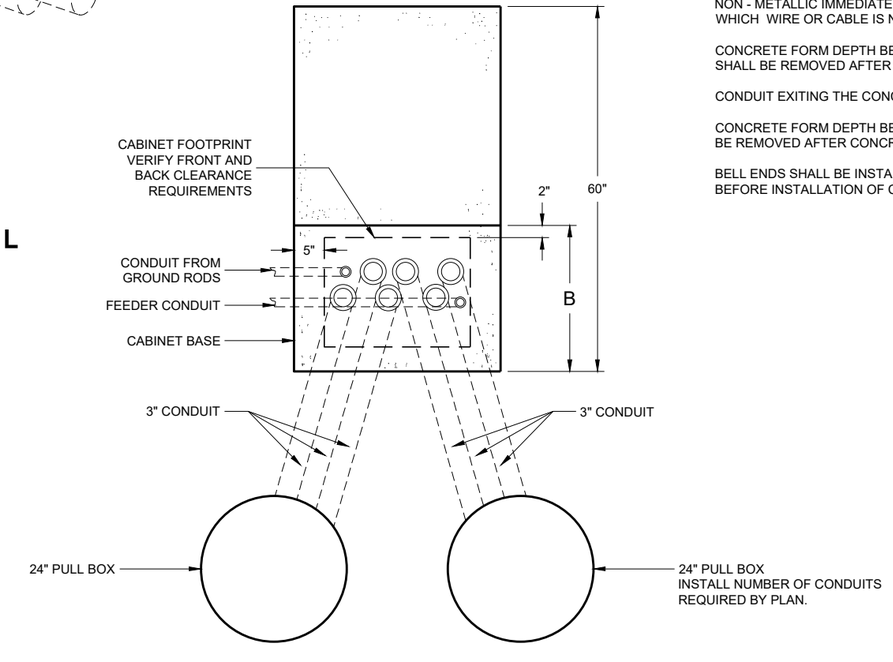
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 243

FHWA

6
SDD 09C14 - 03

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 ½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

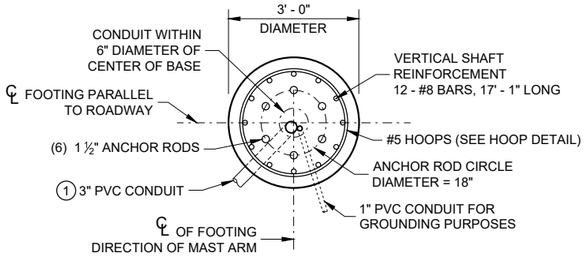
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

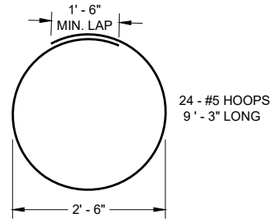
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

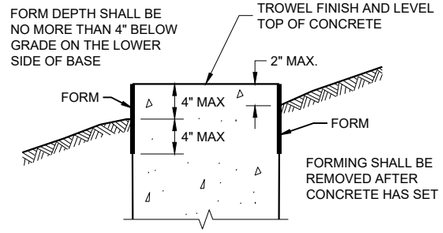
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION).....fy = 55,000 p.s.i.
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



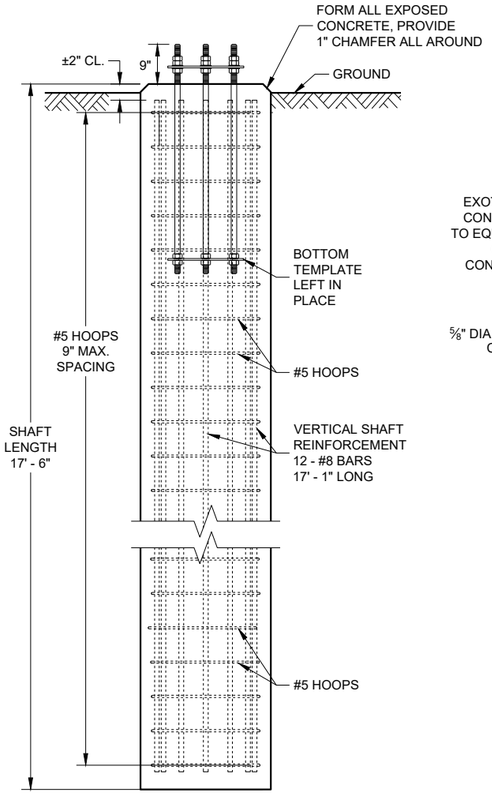
PLAN VIEW



HOOP DETAIL

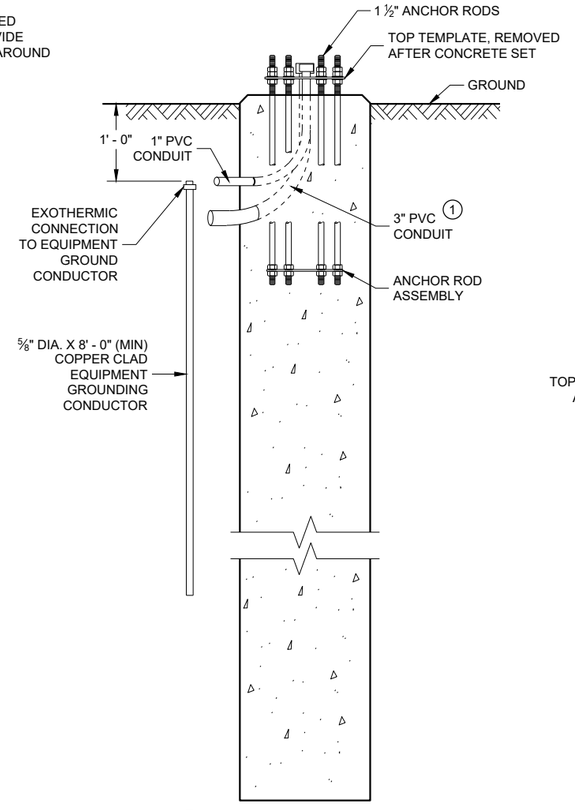


FORMING DETAIL



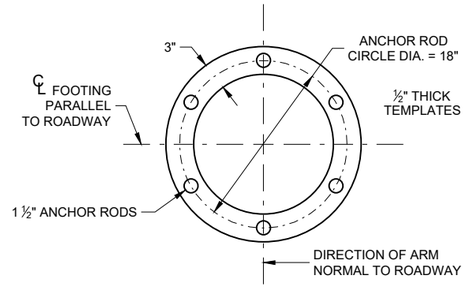
ELEVATION VIEW

(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)

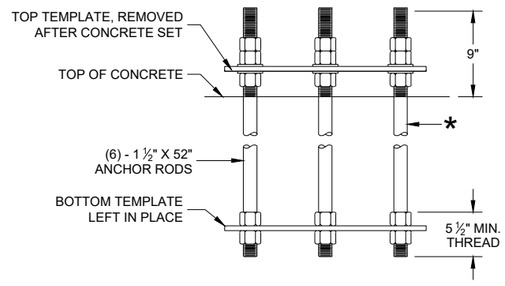


SIDE VIEW

(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE, TYPE 10 SPECIAL
(FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES)

CONCRETE = 4.6 CUBIC YARD
H.S. REINFORCEMENT = 779 LBS.

FOR USE WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTU PROGRAM LEADER

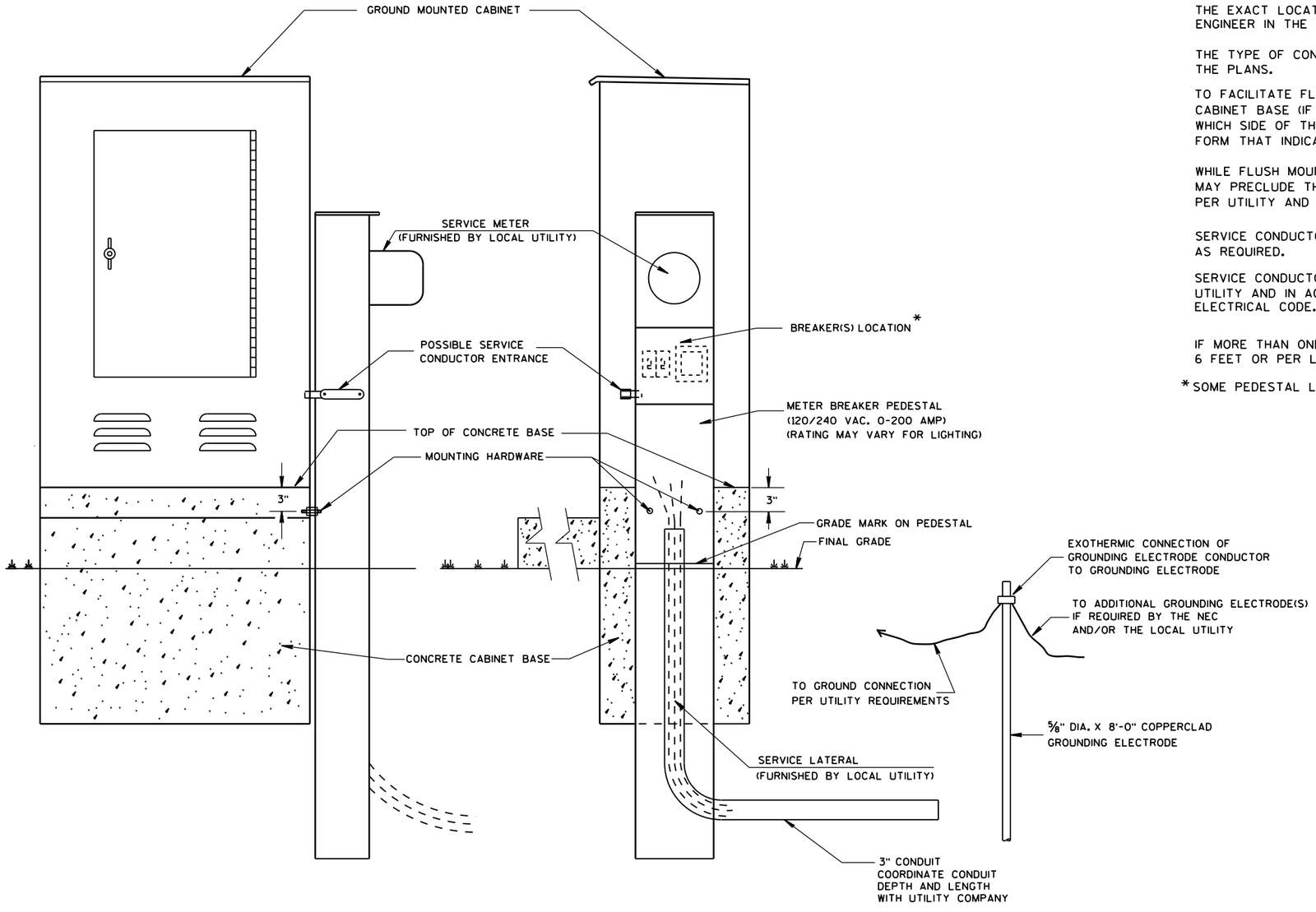
FHWA

6

SDD 09C15 - 01

6

SDD 09C15 - 01



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

*SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

6

S.D.D. 9 D 1-5

6

S.D.D. 9 D 1-5

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

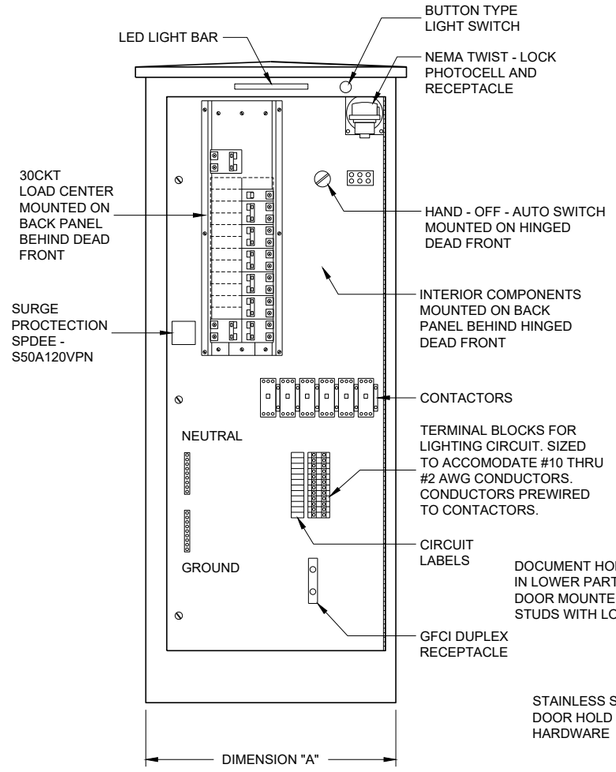
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

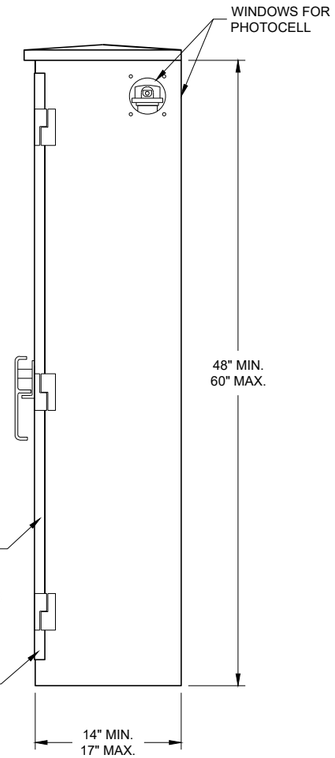
/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

FRONT INTERIOR ELEVATION



SIDE VIEW



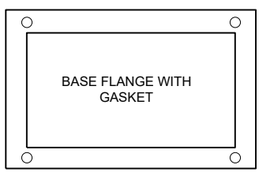
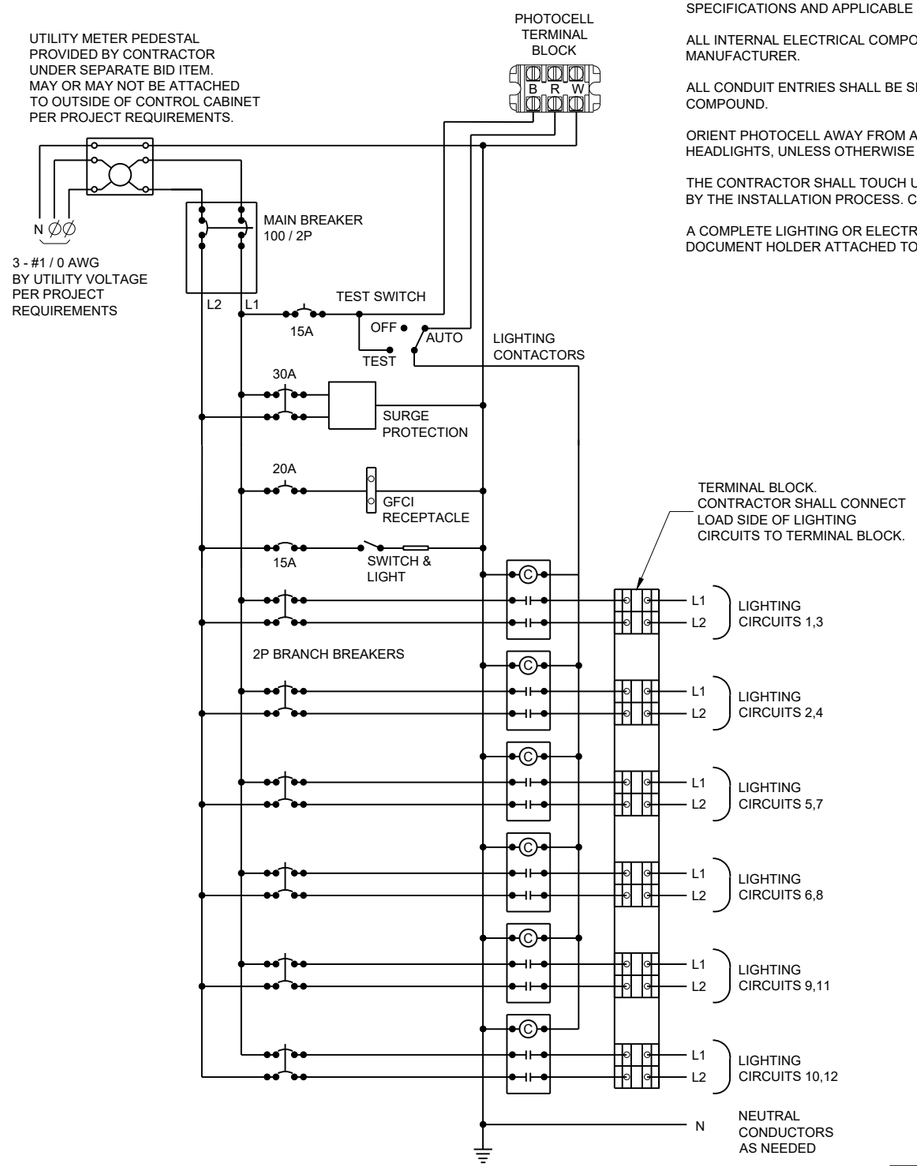


TABLE OF DIMENSIONS (INCHES)		
CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

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

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

LIGHTING CONTROL CABINET
120 / 240 VOLT

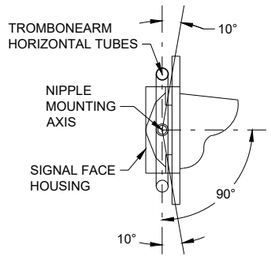
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 246

FHWA

6
SDD 09D04 - 03

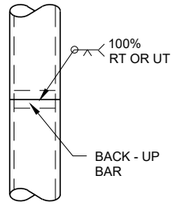


SECTION A-A

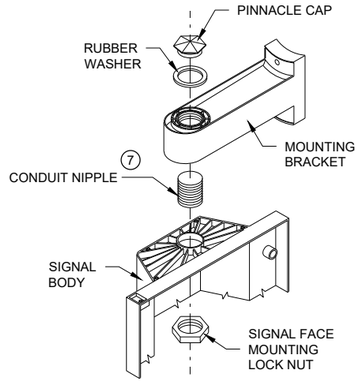
(10 DEGREES TILT REQUIREMENT OF FACE(S) IN THE TROMBONE MOUNTING)

FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.



POLE SPLICE DETAIL



SIGNAL FACE MOUNTING DETAIL

(BANDED)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THEPERTINENT REQUIREMENTS OF THE CONTRACT.

POLES SHALL BE EITHER ALUMINUM OR GALVANIZED STEEL AS CALLED FOR IN THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

TYPE 2 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING,PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) ASREQUIRED, TO PLUMB THE SIGNAL FACES.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

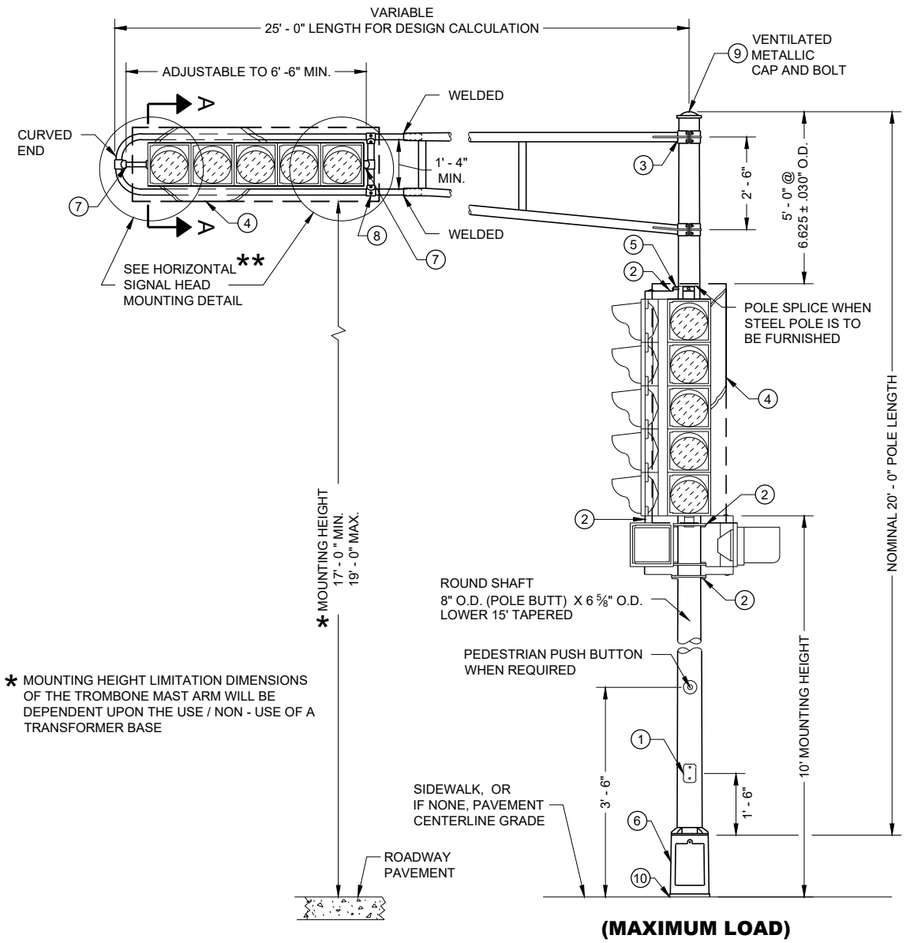
(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOTINTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUTIS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

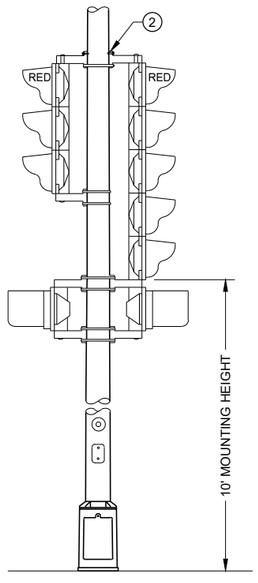
(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

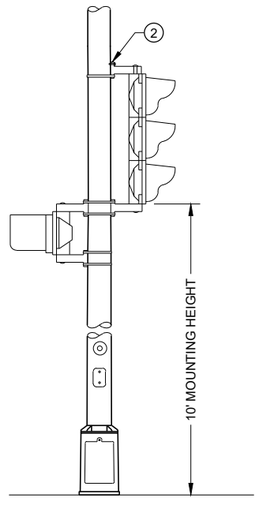


* MOUNTING HEIGHT LIMITATION DIMENSIONS OF THE TROMBONE MAST ARM WILL BE DEPENDENT UPON THE USE / NON - USE OF A TRANSFORMER BASE

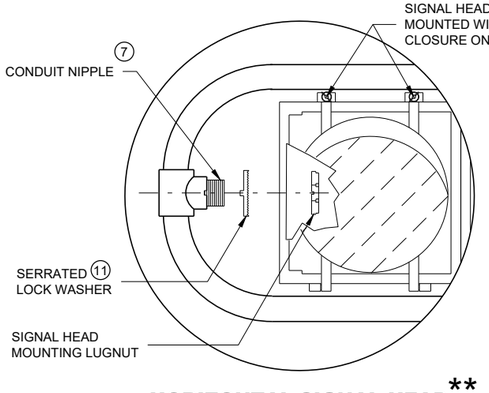
(MAXIMUM LOAD)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD MOUNTING DETAIL **

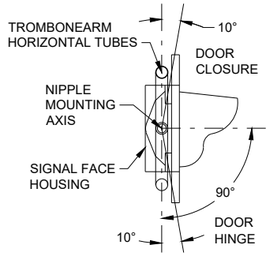
** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

TYPE 2 POLE MOUNTING CONFIGURATION

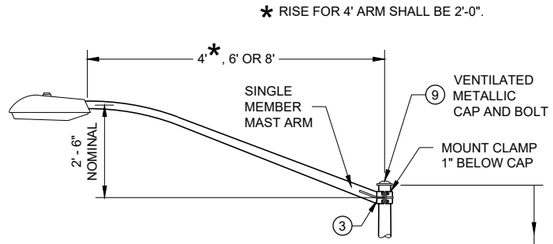
POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2

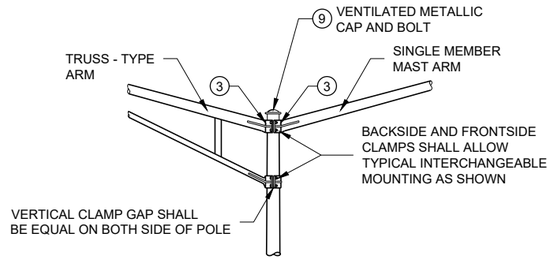
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 09E01 - 15a

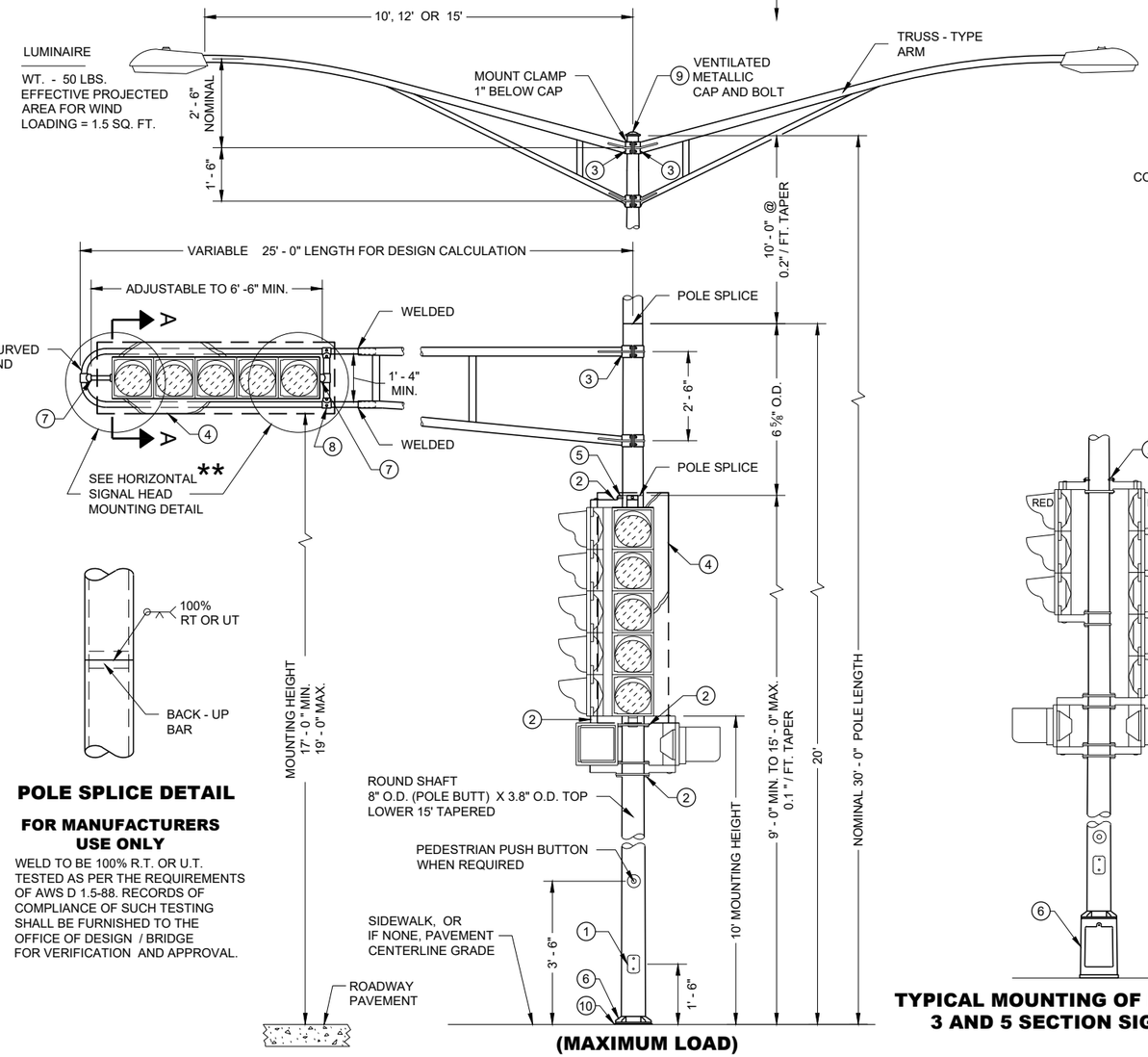


SECTION A-A

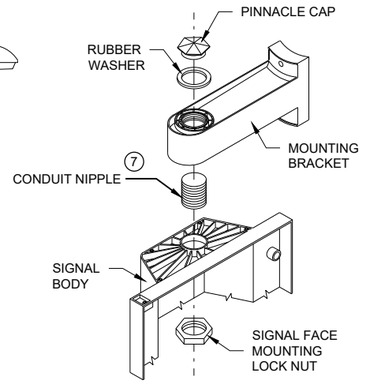




INTERCHANGEABLE MOUNTING DETAIL



(MAXIMUM LOAD)

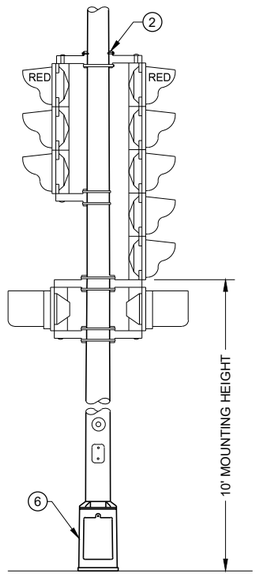


SIGNAL FACE MOUNTING DETAIL
(BANDED)

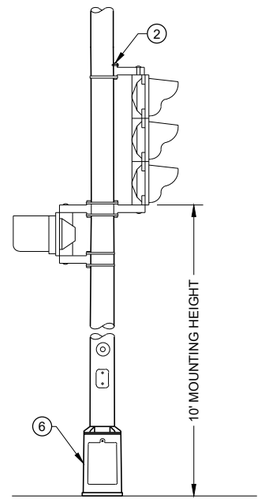
POLE SPLICE DETAIL

FOR MANUFACTURERS USE ONLY

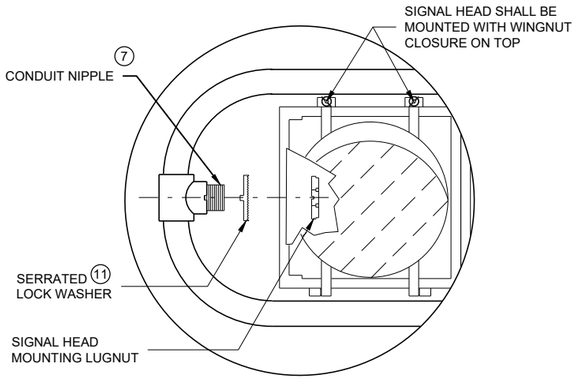
WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD ** MOUNTING DETAIL

** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 3/8 INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 3/8" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED. UNDER MAX LOADING, TYPE 3 POLE SHALL BE MOUNTED DIRECTLY TO ITS CONCRETE BASE.

(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

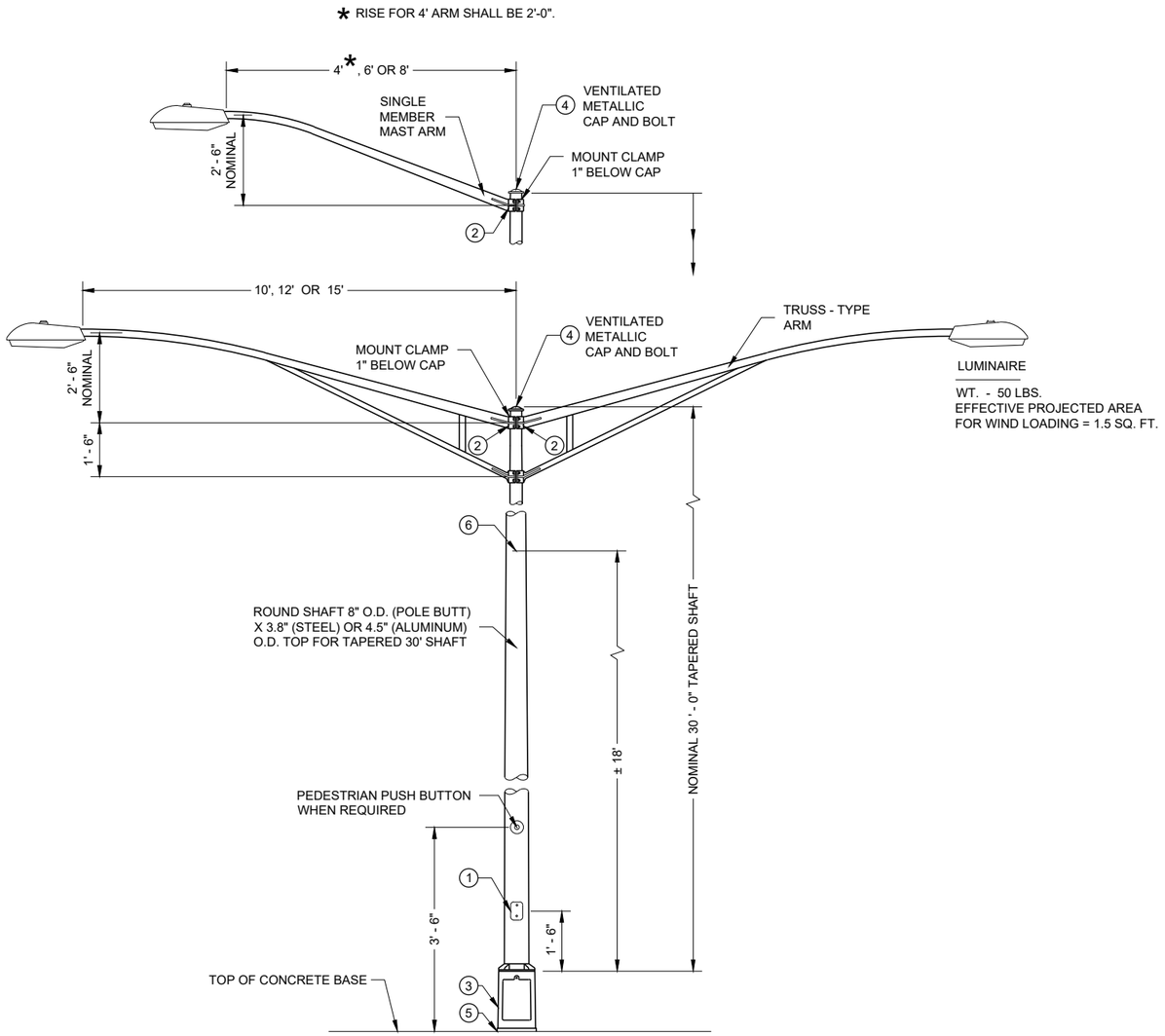
TYPE 3 POLE MOUNTING CONFIGURATION

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS TYPE 3 (HEAVY DUTY)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 09E01 - 15b



TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

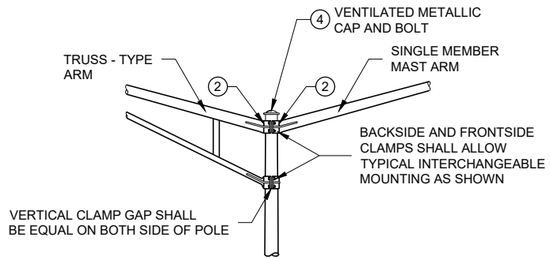
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

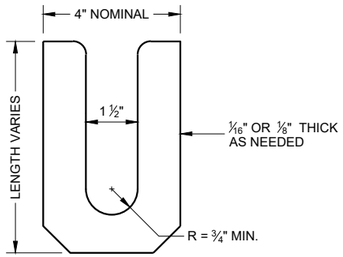
(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.

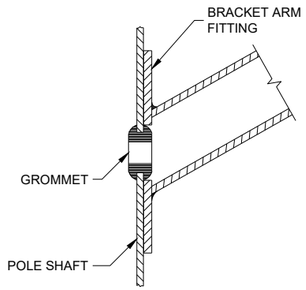


INTERCHANGEABLE MOUNTING DETAIL

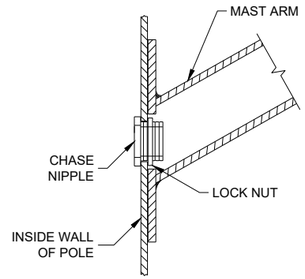
POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

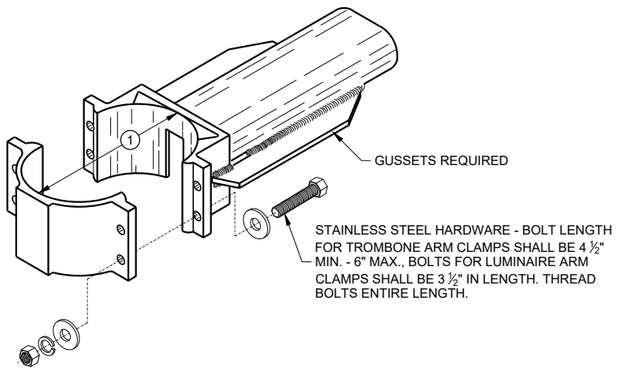
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

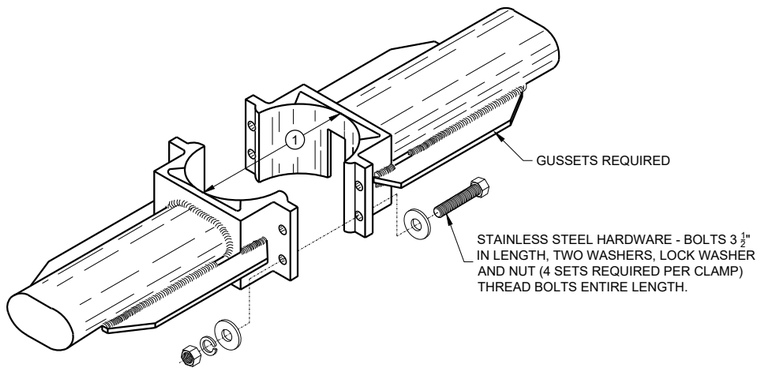
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

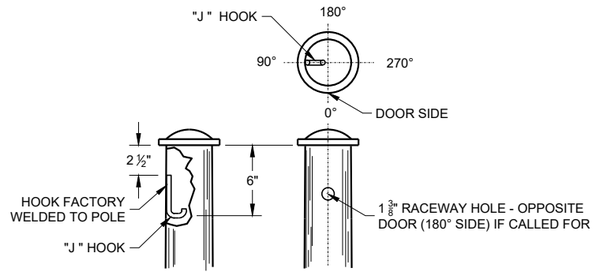
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



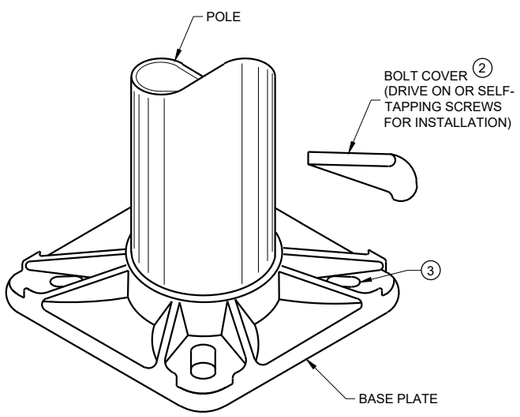
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



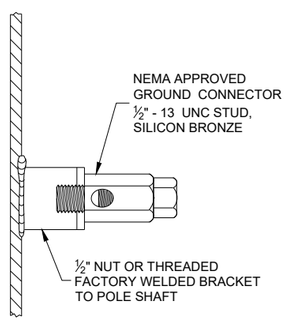
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

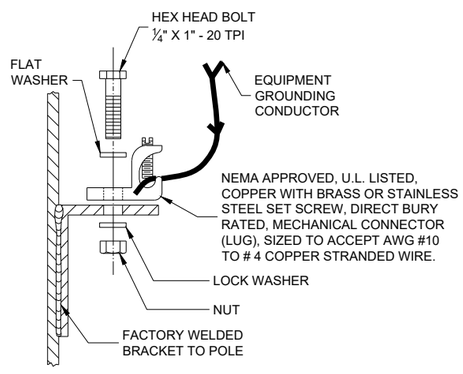


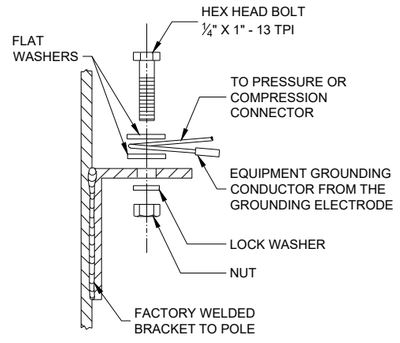
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 250

FHWA

6

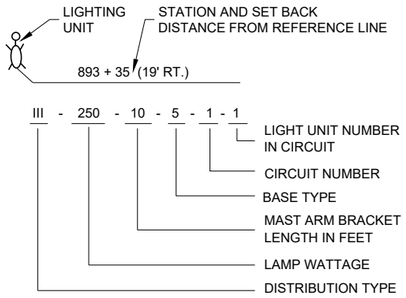
SDD 09E01 - 15g

GENERAL NOTES

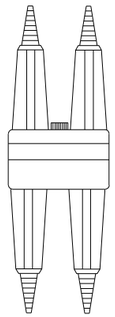
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

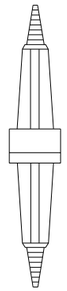
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



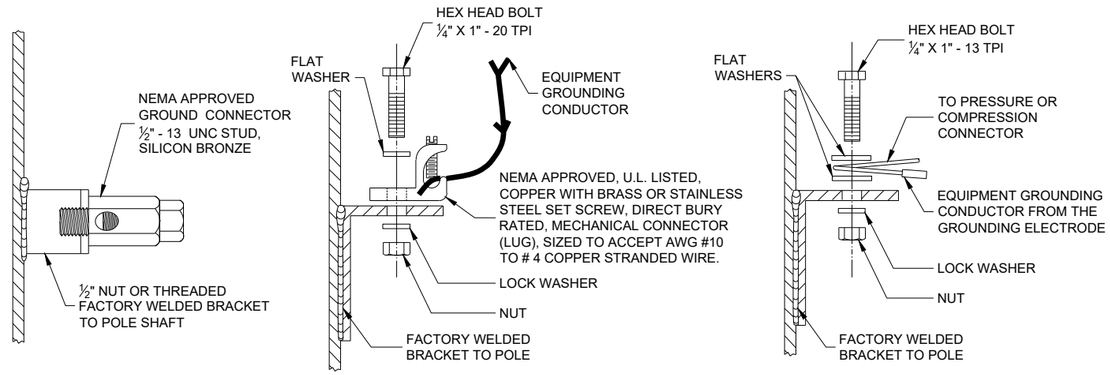
LIGHTING UNIT CODE
(TYPICAL)



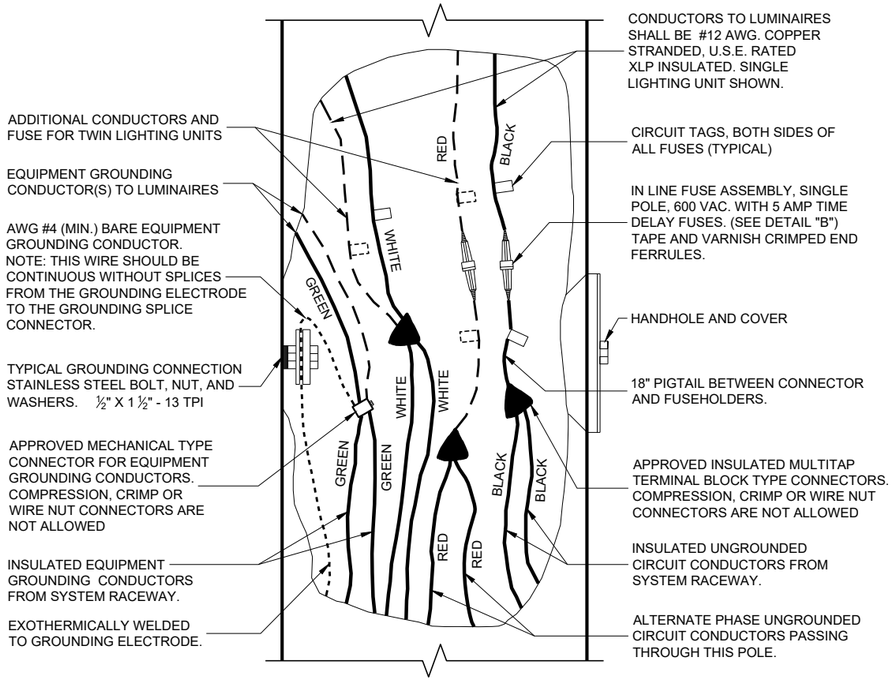
DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



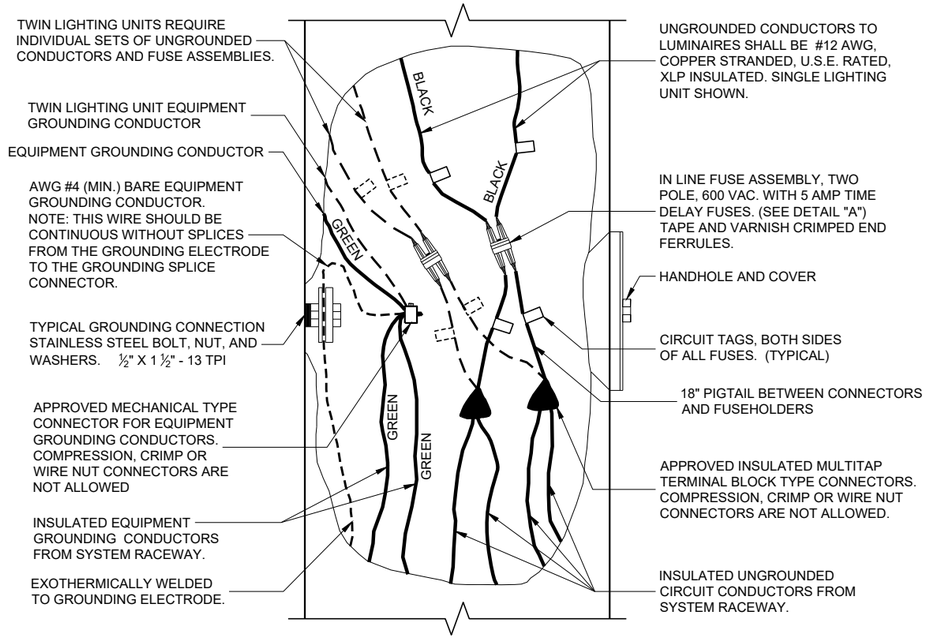
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

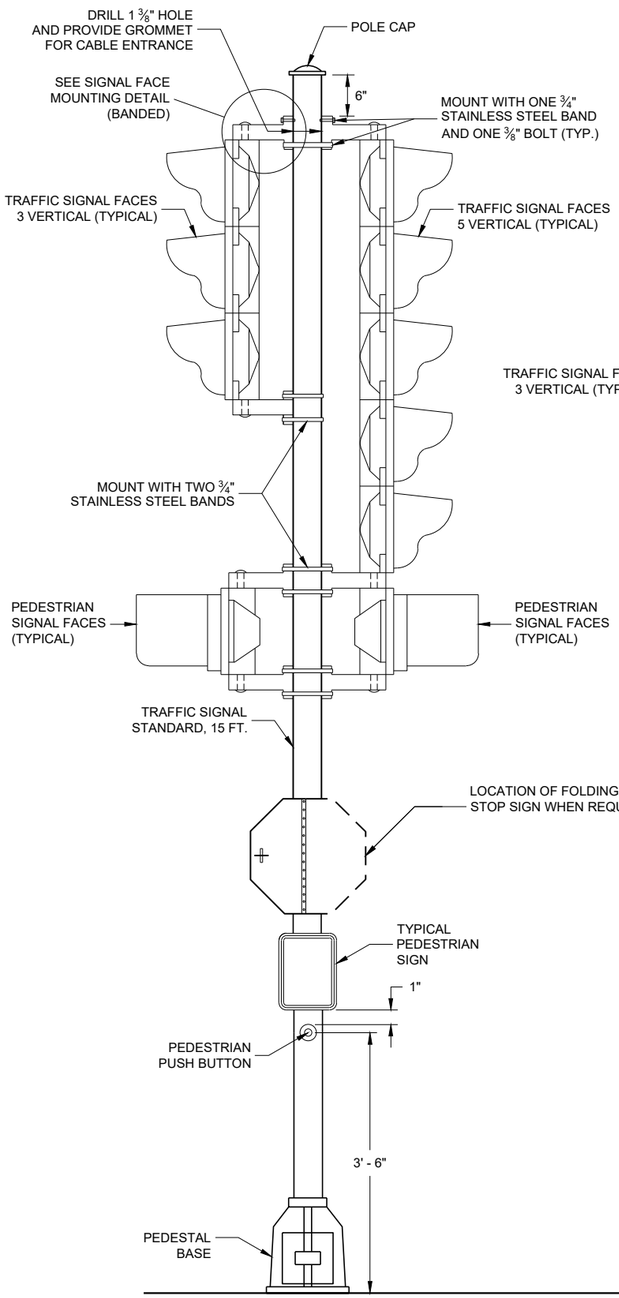
NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

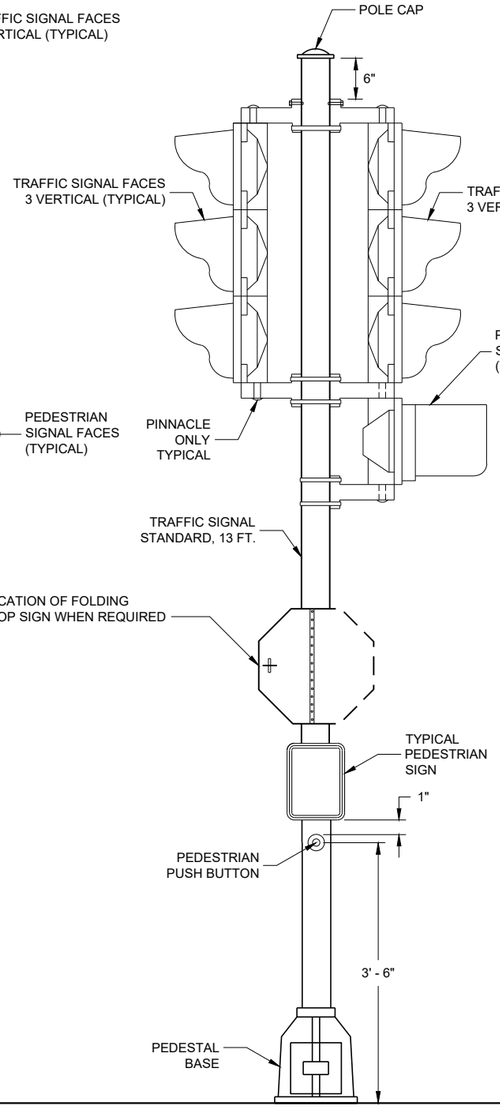
APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

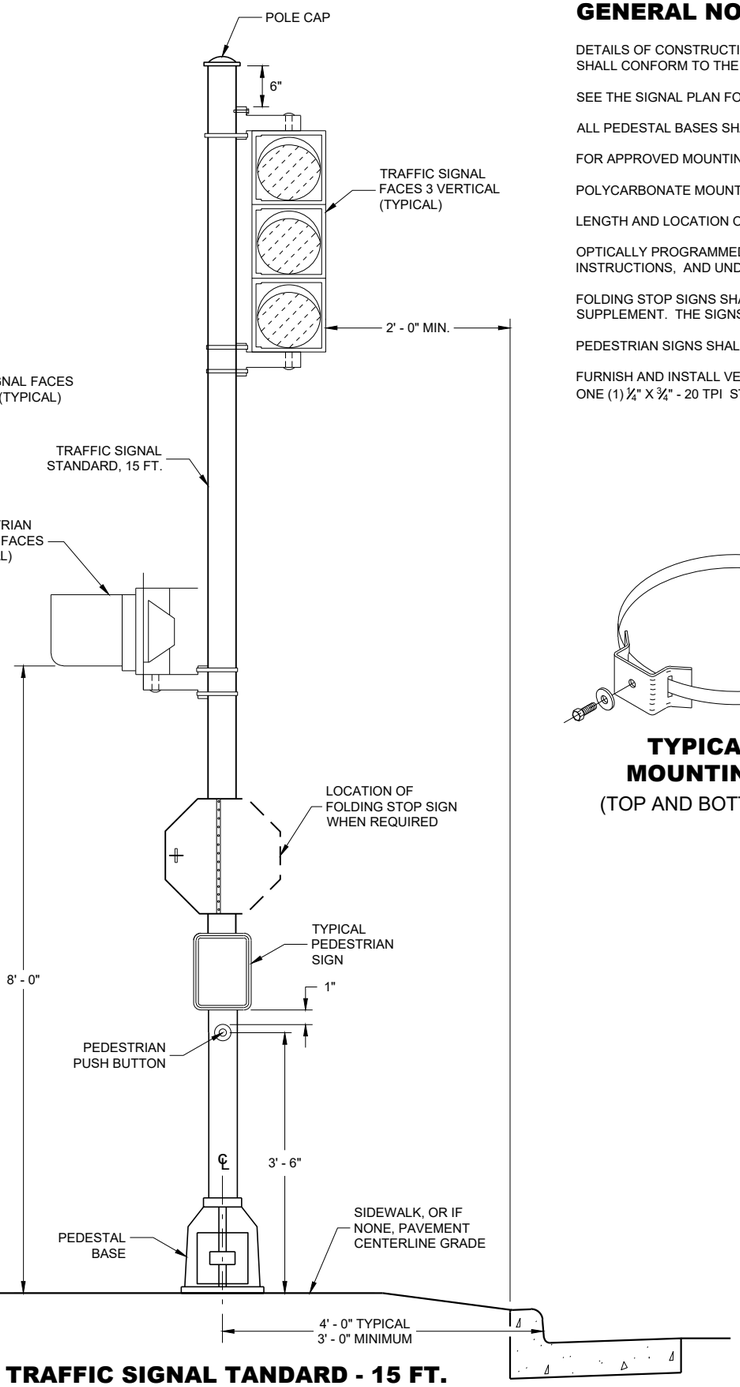
6
SDD 09E03 - 06



TRAFFIC SIGNAL STANDARD - 15 FT.



TRAFFIC SIGNAL STANDARD - 13 FT.



TRAFFIC SIGNAL TANDARD - 15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

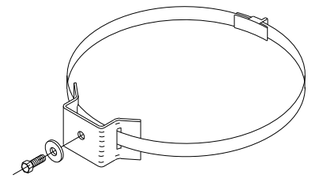
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

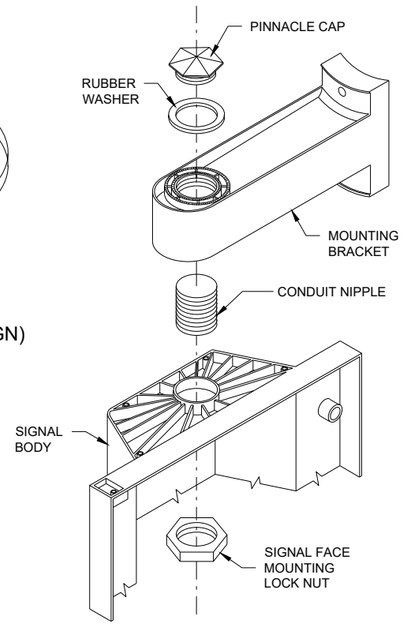
FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



SIGNAL FACE MOUNTING DETAIL (BANDED)

TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

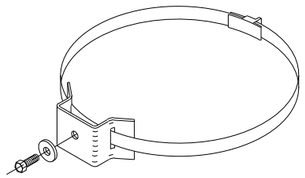
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013
DATE

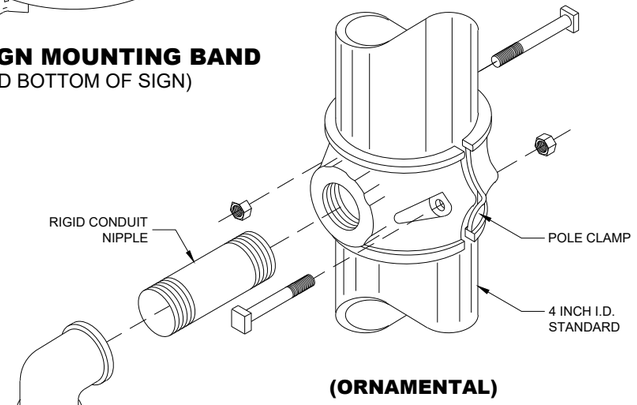
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 252

FHWA

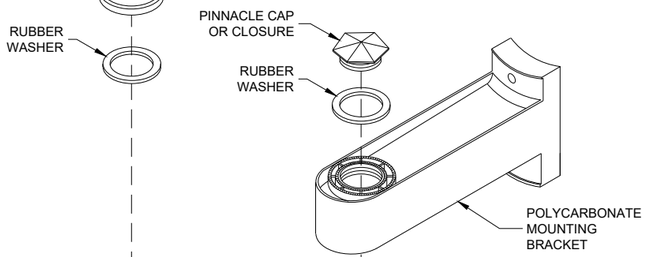
6
SDD 09E06 - 05



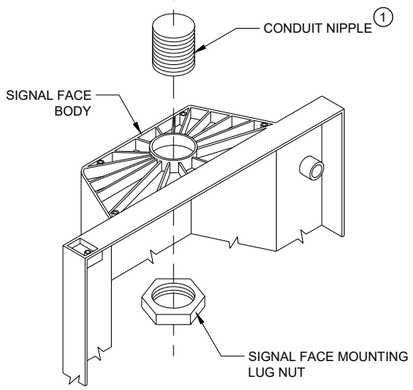
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



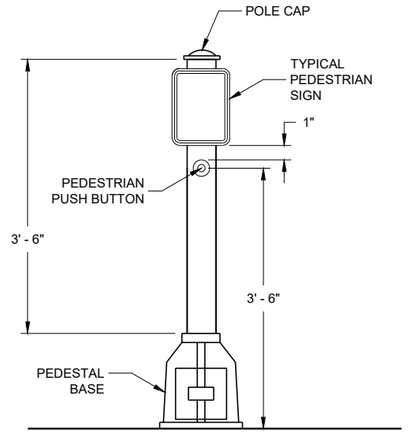
(ORNAMENTAL)



(BANDED)



SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

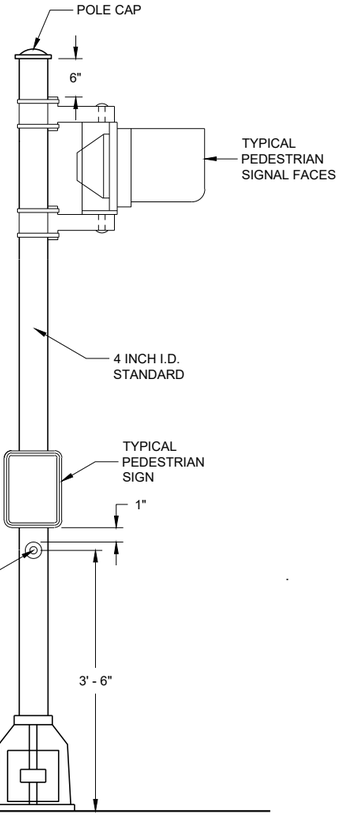
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

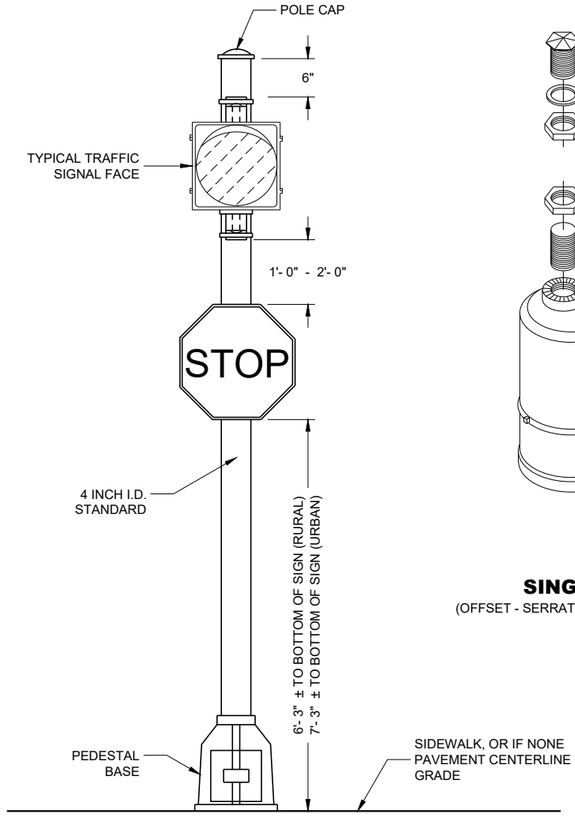
PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

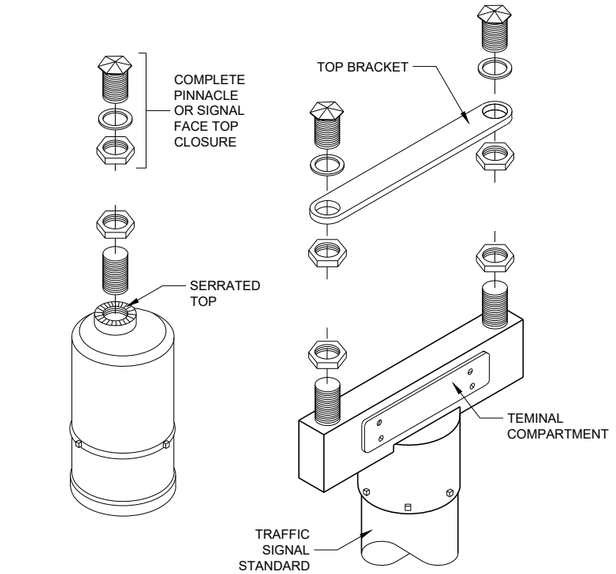
(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACESAND BRACKET ENDS.



PEDESTRIAN FACE STANDARD - 10 FT.
(WALK - DON'T WALK)



STANDARD FLASHER
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



SINGLE
(OFFSET - SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD
PEDESTRIAN AND FLASHER
TYPICAL MOUNTING DETAILS

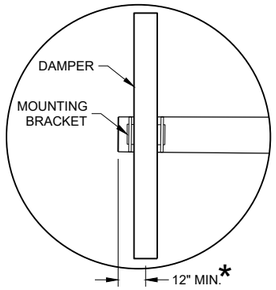
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 253

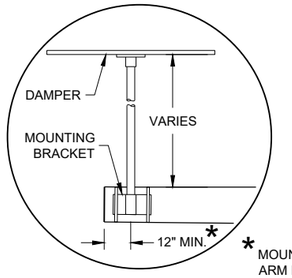
FHWA

6

SDD 09E07 - 06

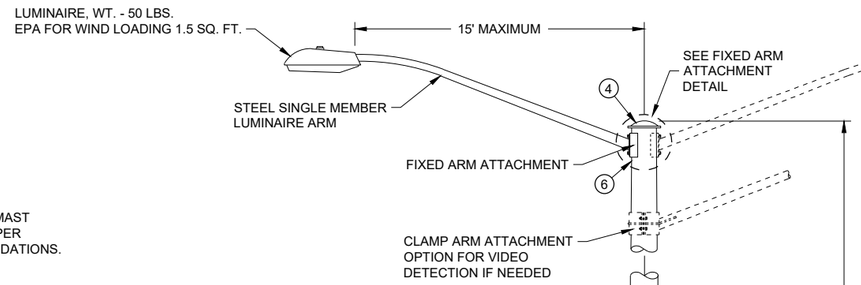


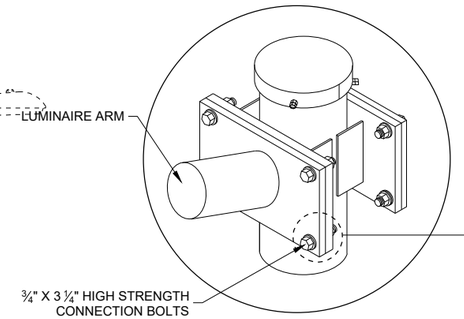
DUMBBELL VIBRATION DAMPER



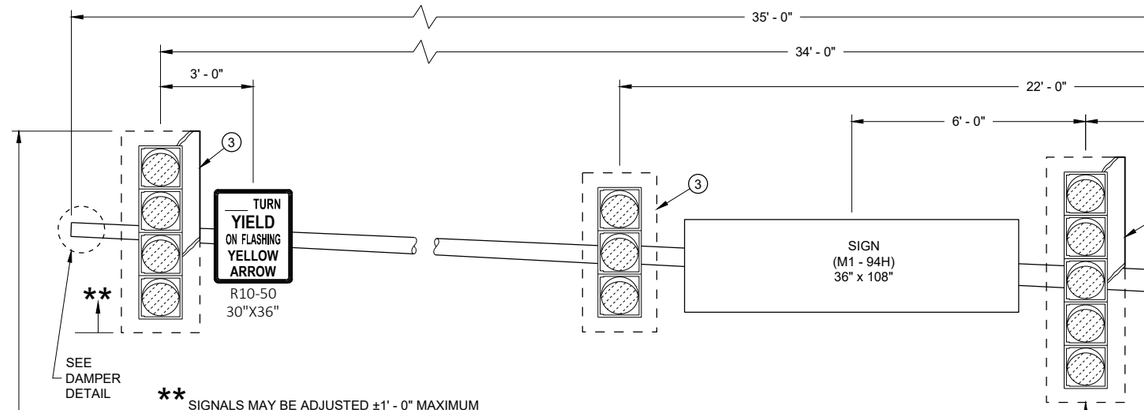
FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.

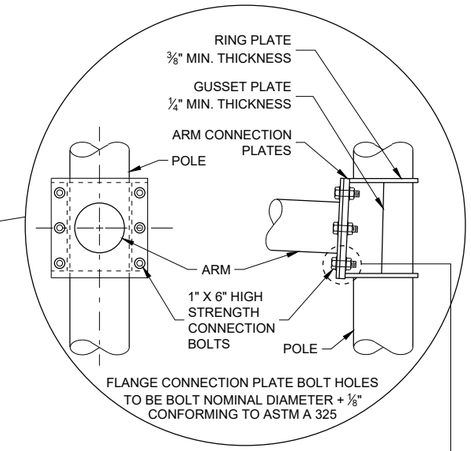




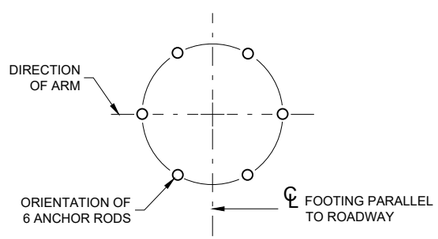
FIXED ARM ATTACHMENT DETAIL



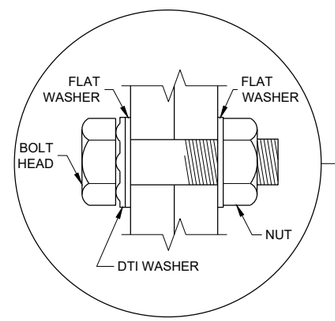
** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE



6 BOLT ARM CONNECTION DETAIL



ANCHOR ROD LOCATION



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 SPECIAL POLE
35' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

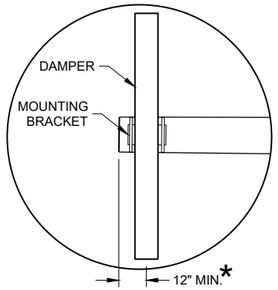
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

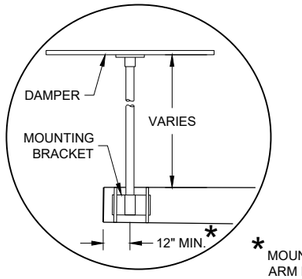
FHWA

6

SDD 09E08 - 09f

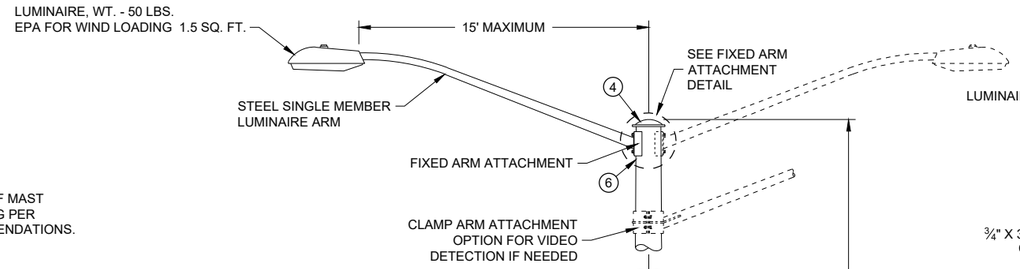


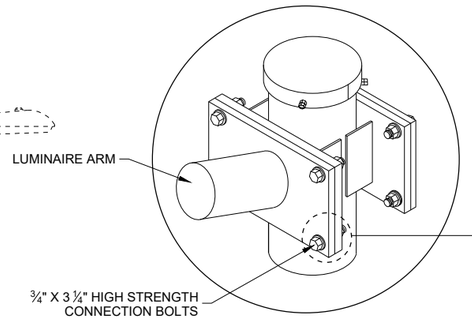
DUMBBELL VIBRATION DAMPER



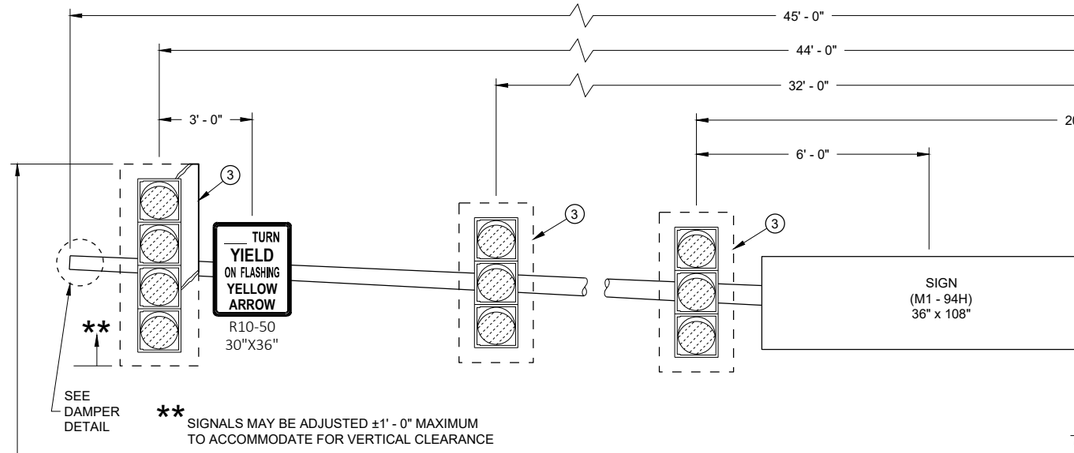
FLAT VIBRATION DAMPER

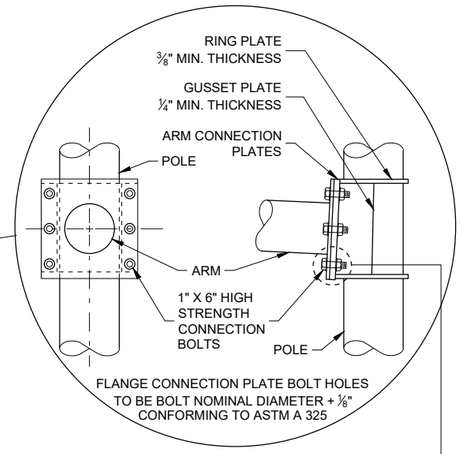
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



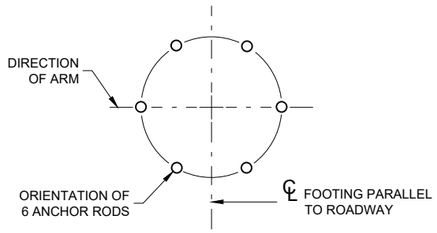


FIXED ARM ATTACHMENT DETAIL

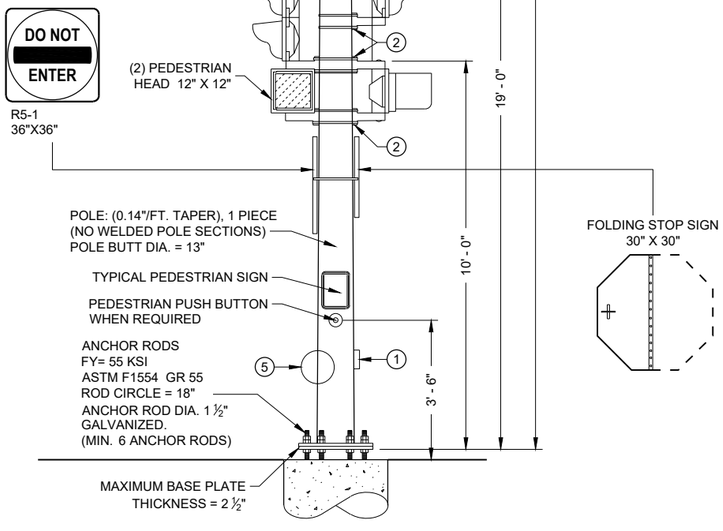


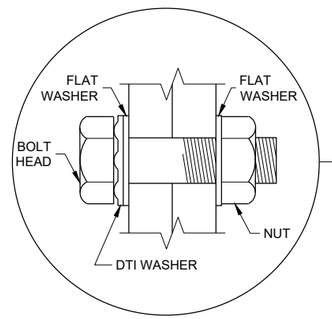


6 BOLT ARM CONNECTION DETAIL



ANCHOR ROD LOCATION





RECOMMENDED BOLT ASSEMBLY DETAIL

25.6' MAXIMUM MOUNTING HEIGHT

17' - 6" MINIMUM MOUNTING HEIGHT

ROADWAY PAVEMENT

ROADWAY PAVEMENT

TYPE 10 SPECIAL POLE
45' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 SPECIAL POLE
45' MONTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 255

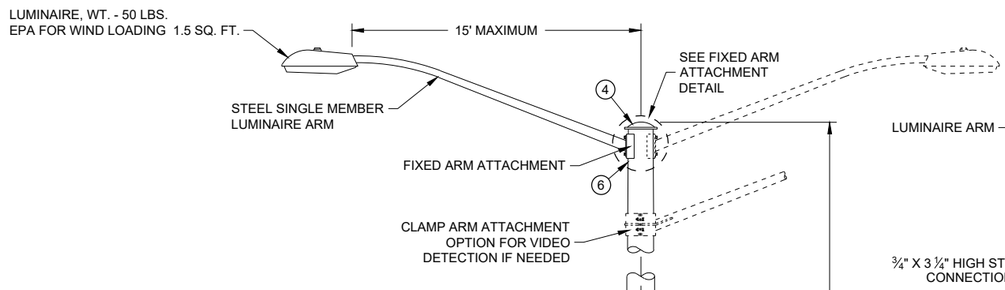
FHWA

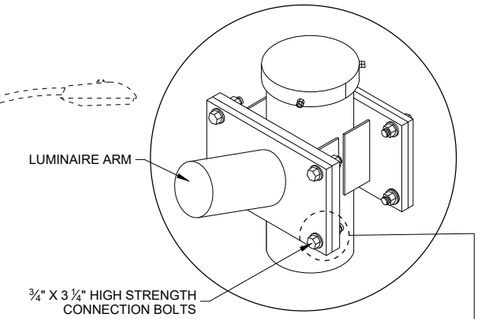
6

SDD 09E08 - 08h

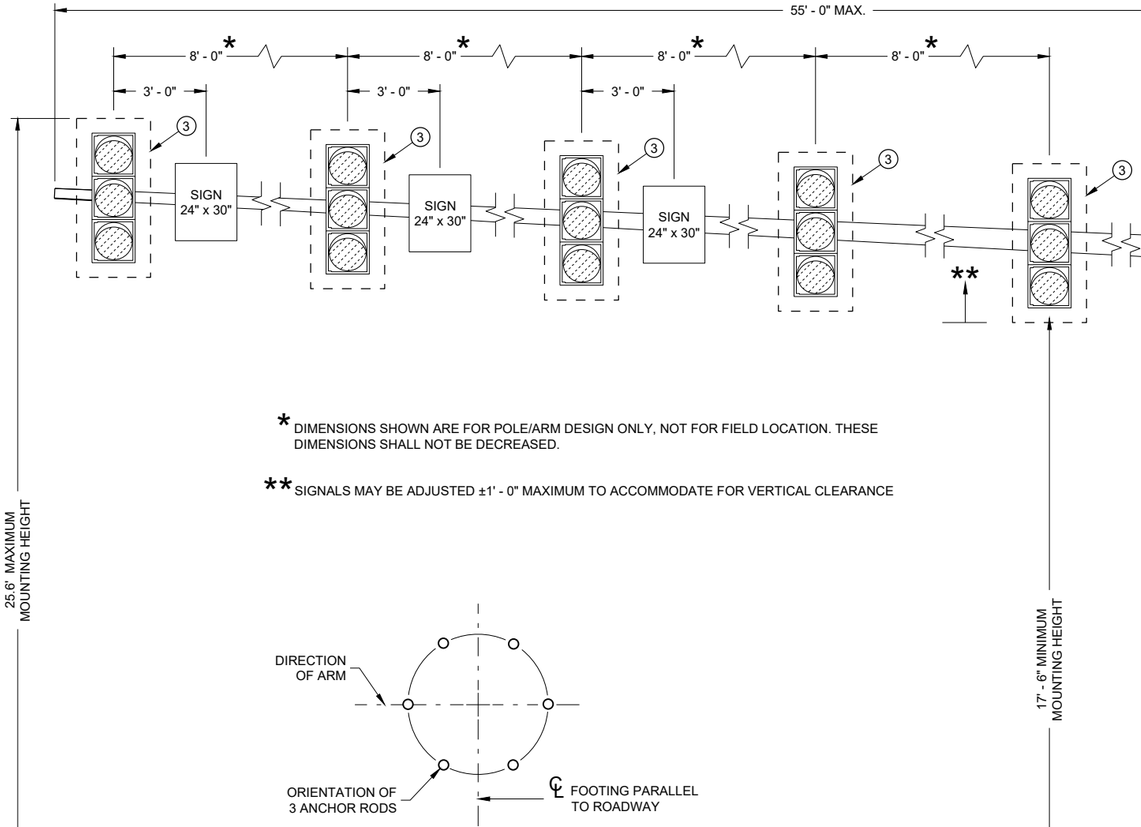
6

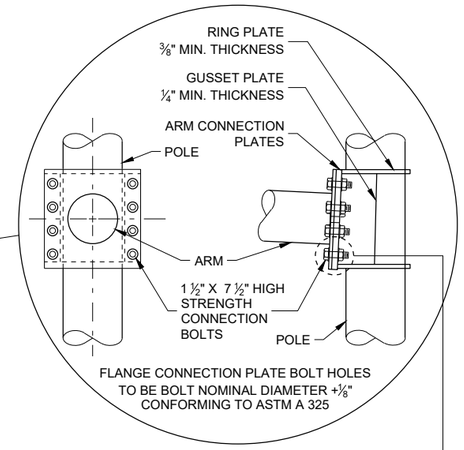
SDD 09E08 - 08h



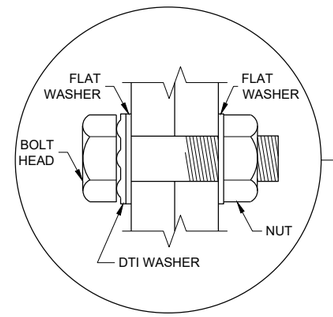


FIXED ARM ATTACHMENT DETAIL





8 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION

TYPE 13 POLE
35' - 55' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 13 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 256

FHWA

6
SDD 09E08 - 09j

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL.

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES AS FOLLOWS:

CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.

CATEGORY II FATIGUE LOADS OF TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM.

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEAD AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION SECTION 658).

(3) SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

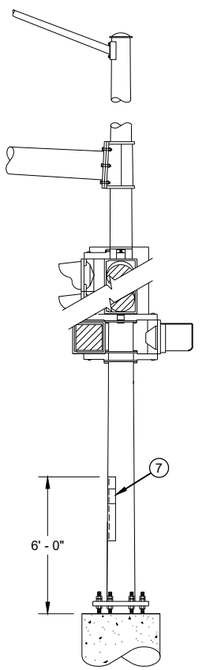
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

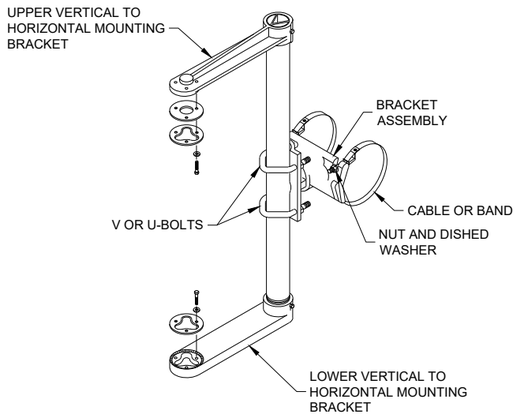
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.



STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT

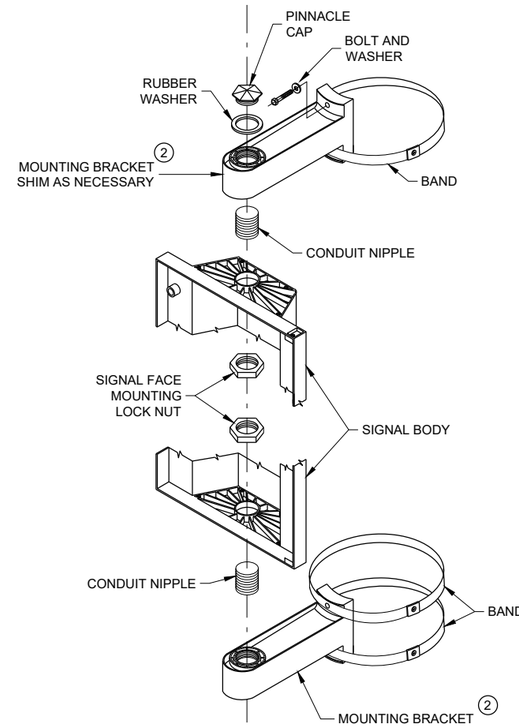


SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

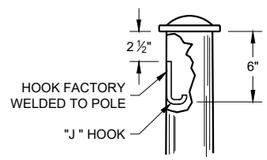
(MOUNT PER MANFACTURER'S RECOMMENDATION)

TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

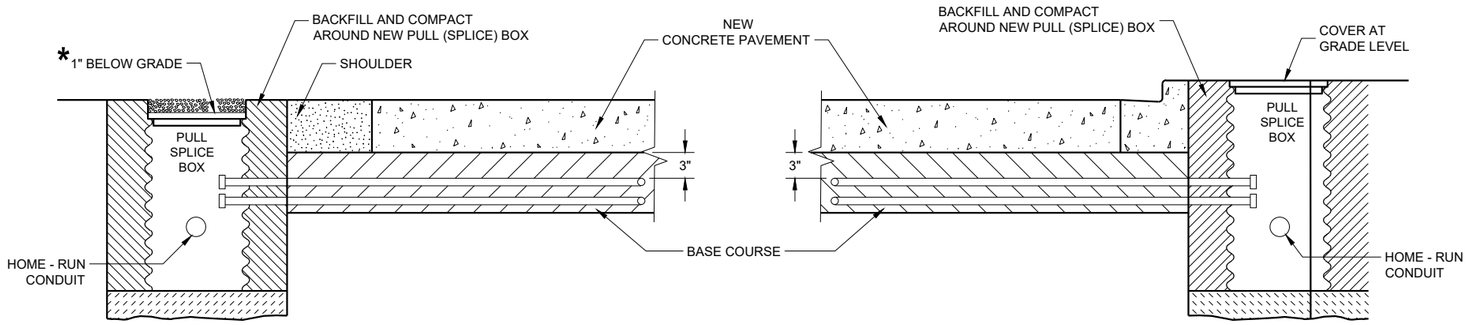
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

6

SDD 09E08 - 09k



SECTION A - A
NO CURB AND GUTTER

SECTION B - B
CURB AND GUTTER

* RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

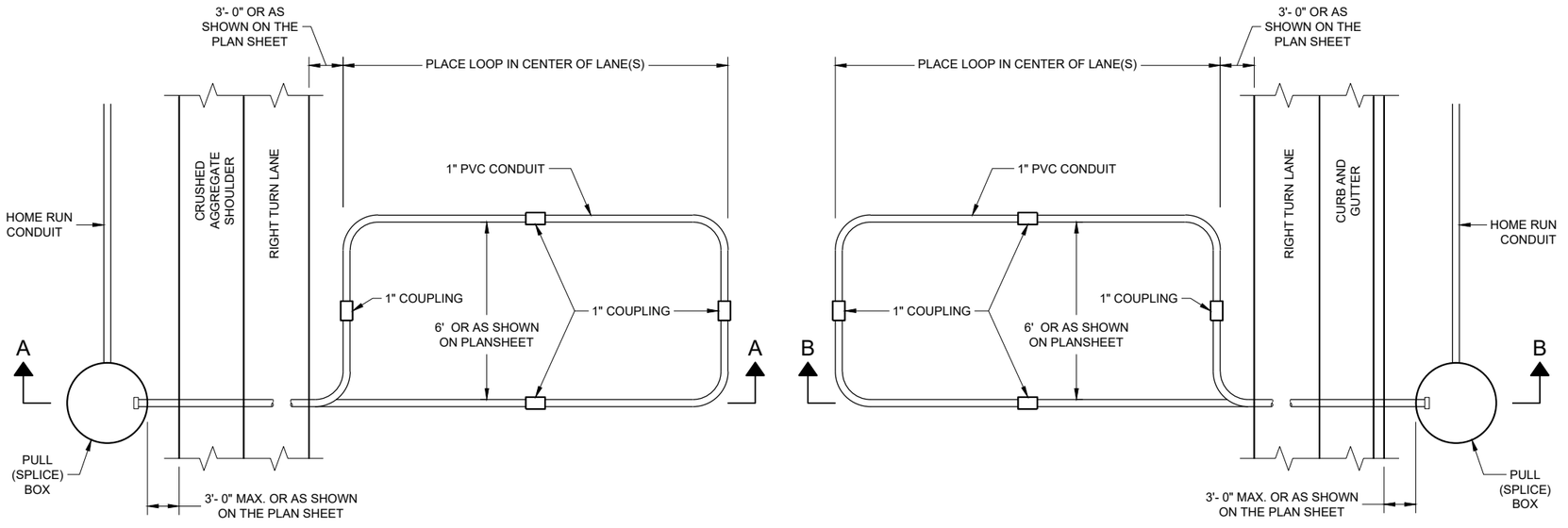
THE #12 AWG LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

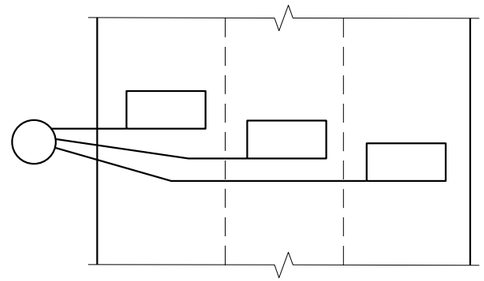
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN LOOP DETECTOR
WITH 24" PULL (SPLICE) BOX



MULTI-LANE
INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

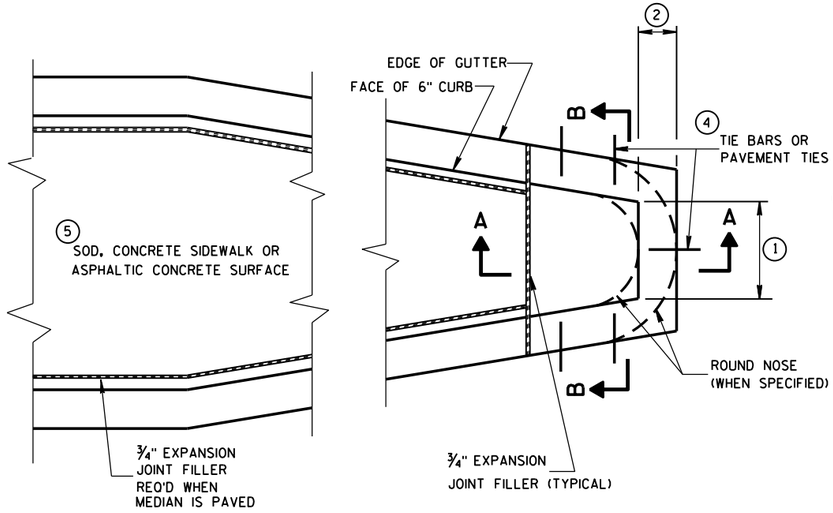
FHWA

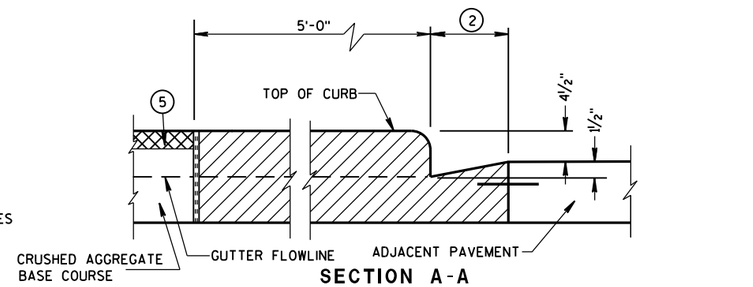
6

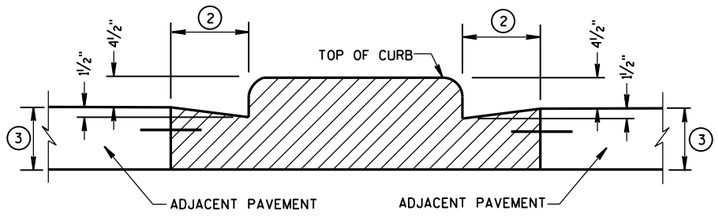
SDD 09F15 - 04b

6

SDD 09F15 - 04b







CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

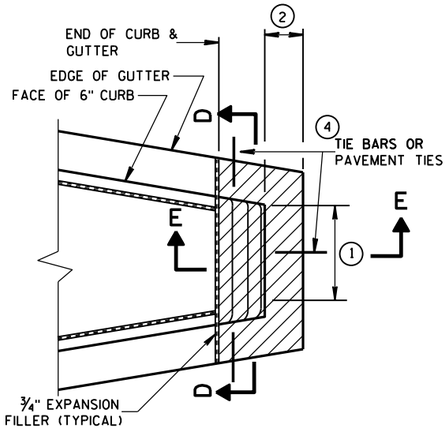
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

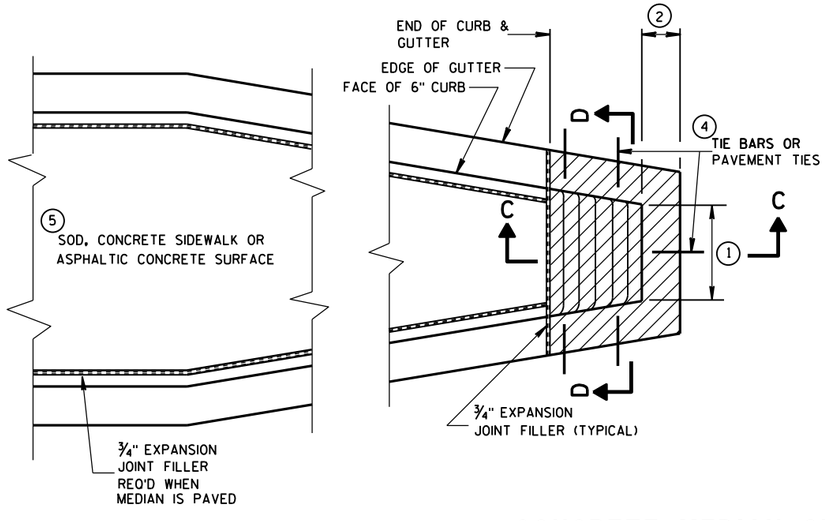
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

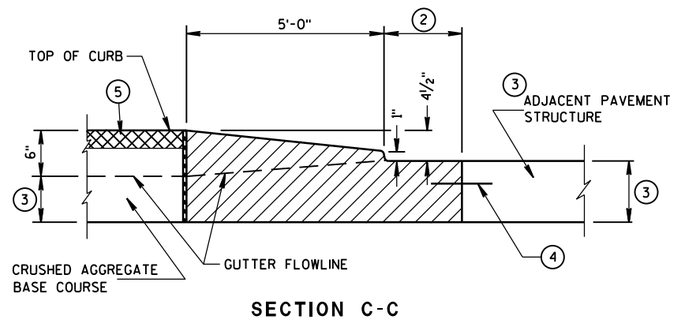
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

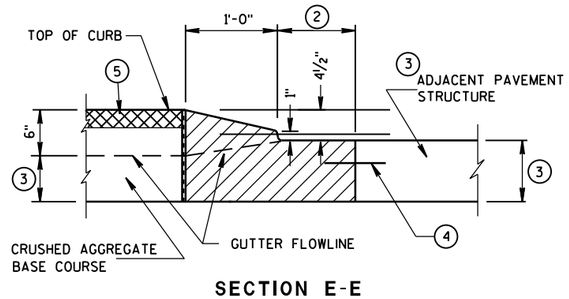
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



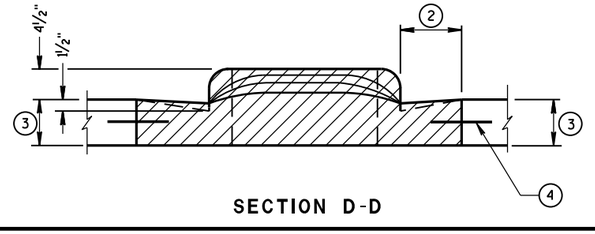






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

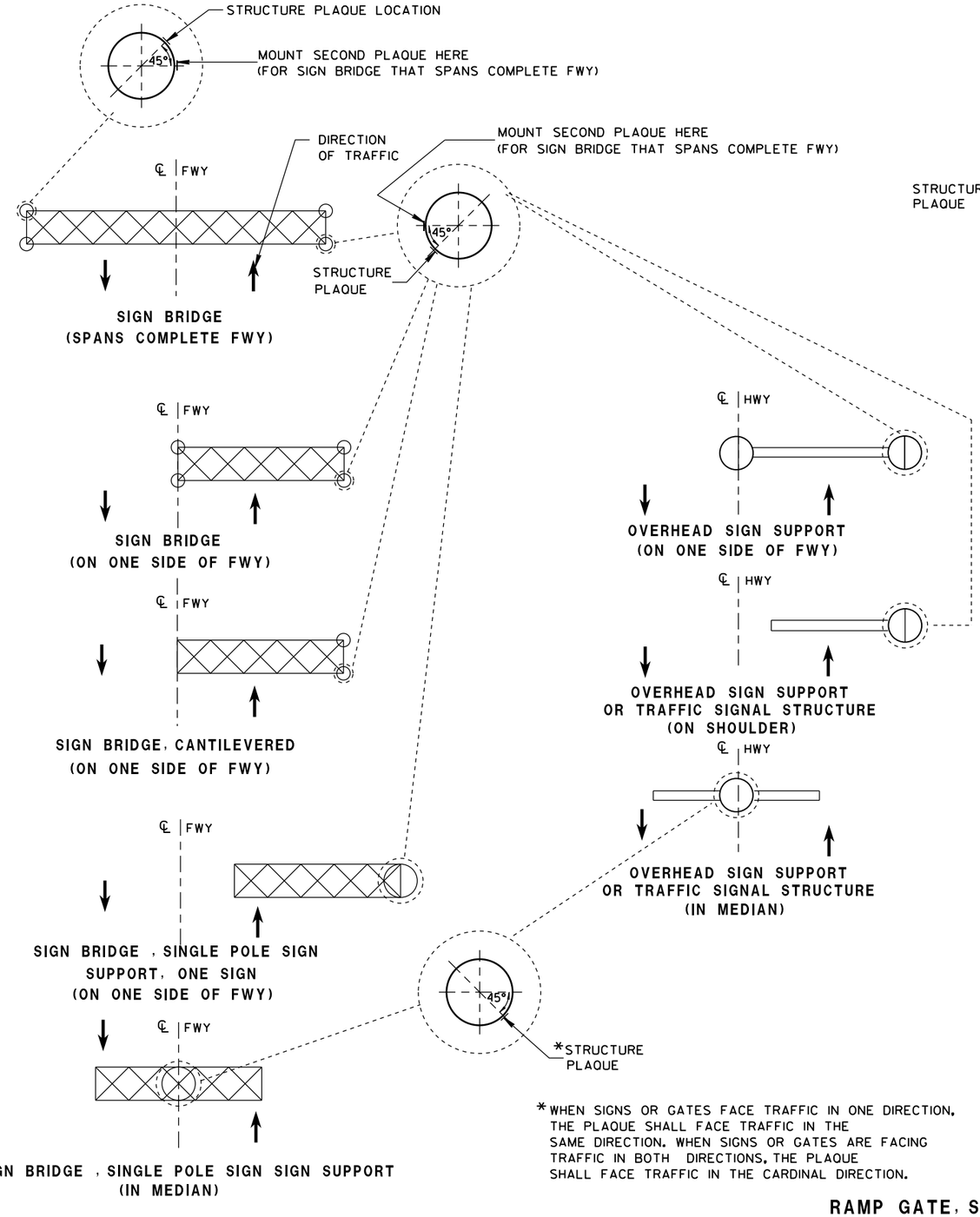
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 11 B 2-2

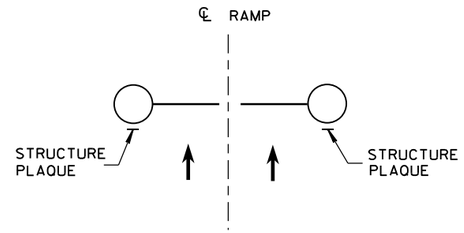
6

S.D.D. 11 B 2-2

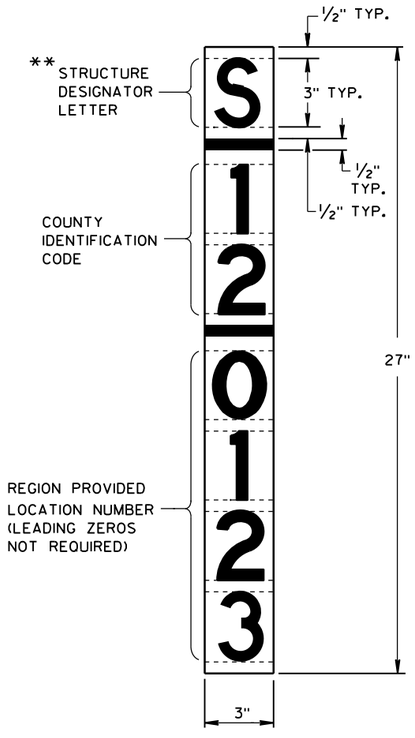


LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.



RAMP GATE
(ACROSS FWY ON-RAMP)



** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

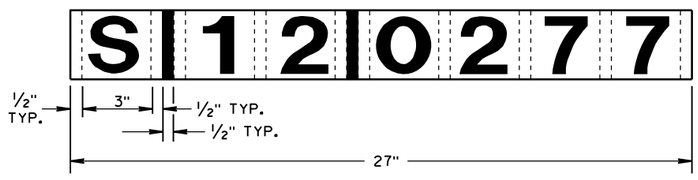
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

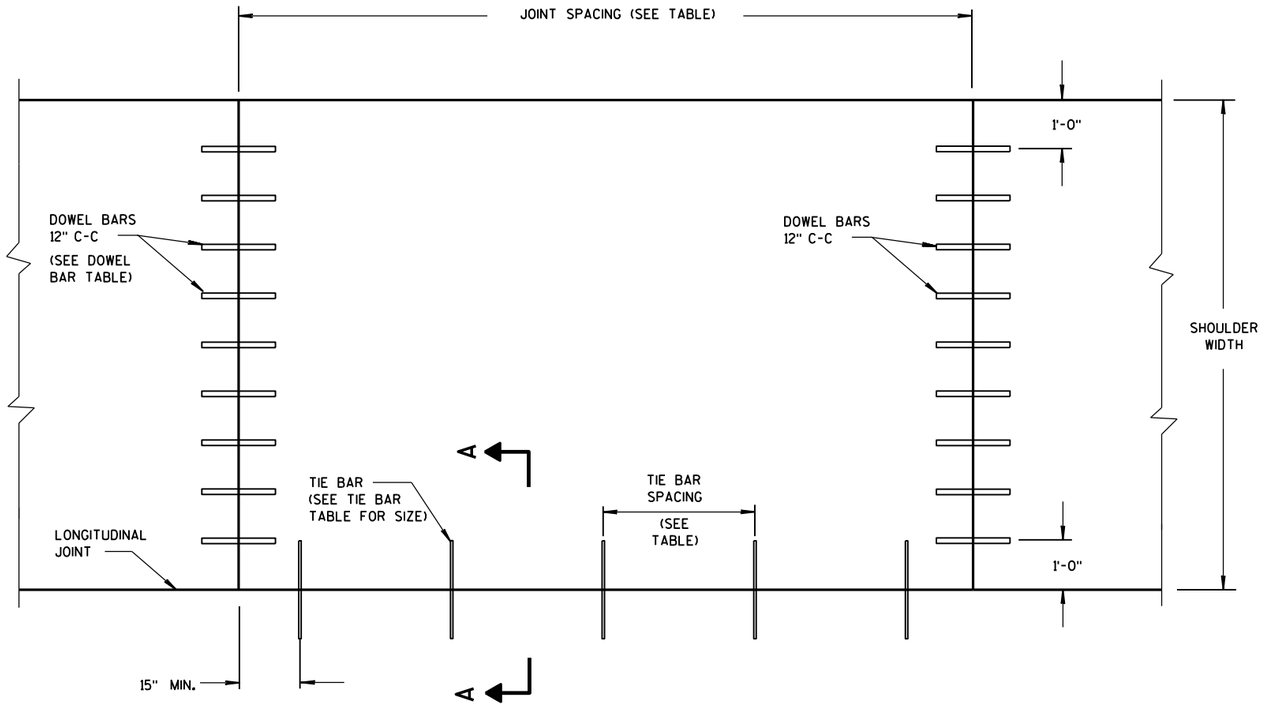
STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 12 A 4-3



PLAN VIEW

CONCRETE PAVEMENT SHOULDER

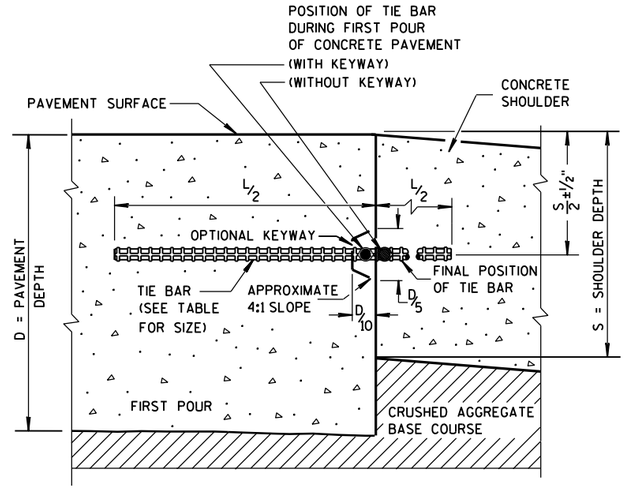
GENERAL NOTES

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

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT

TIE BAR TABLE

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

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

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

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER***	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

*** FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE PAVEMENT SHOULDERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

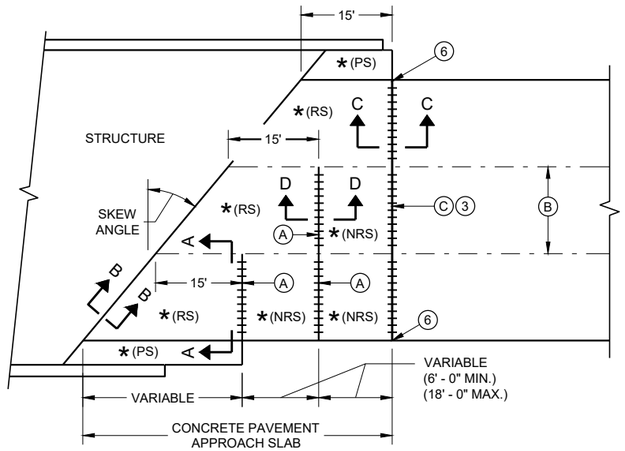
APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

6

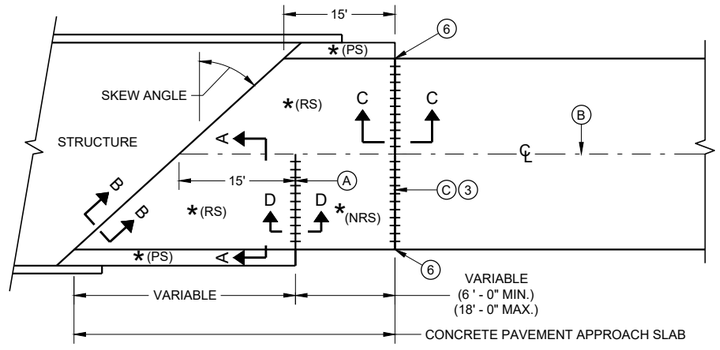
S.D.D. 13 A 3-6

6

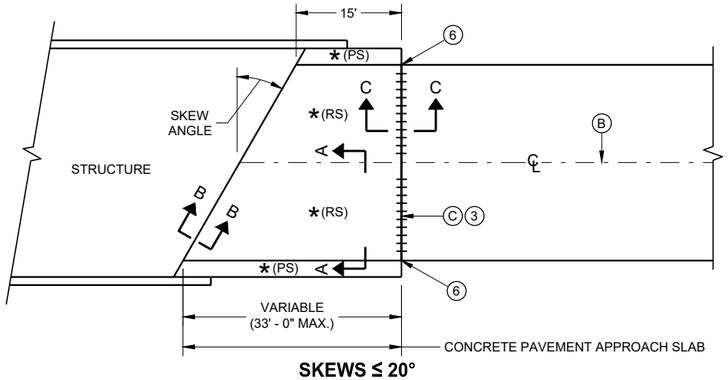
S.D.D. 13 A 3-6



SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)



SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

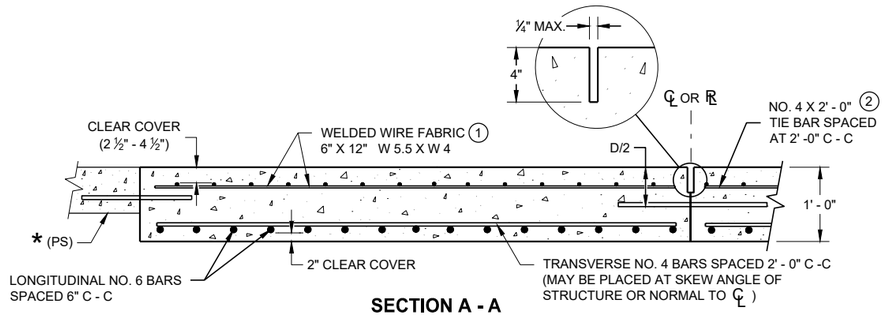
APPROACH SLAB AND ADJACENT PAVEMENT

* (RS) = REINFORCED CONCRETE SLAB

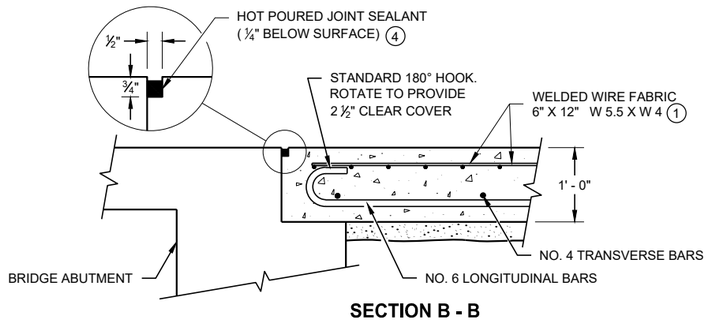
* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

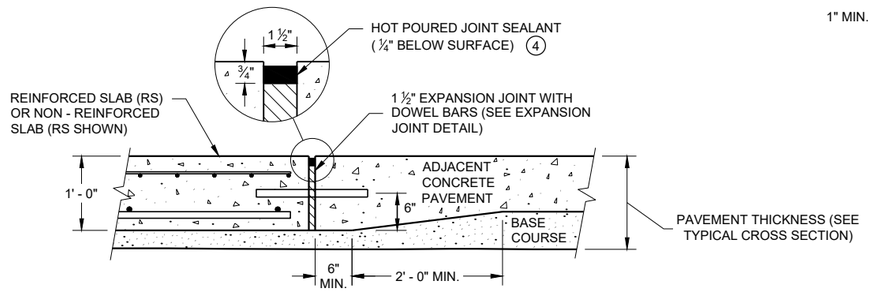
*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

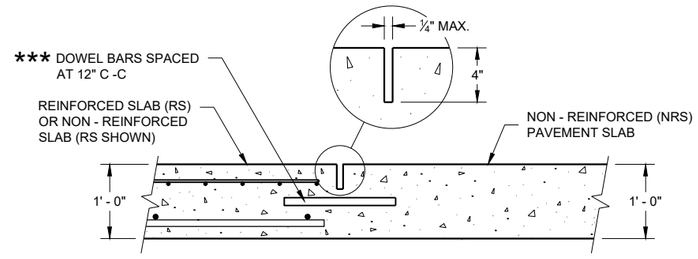
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

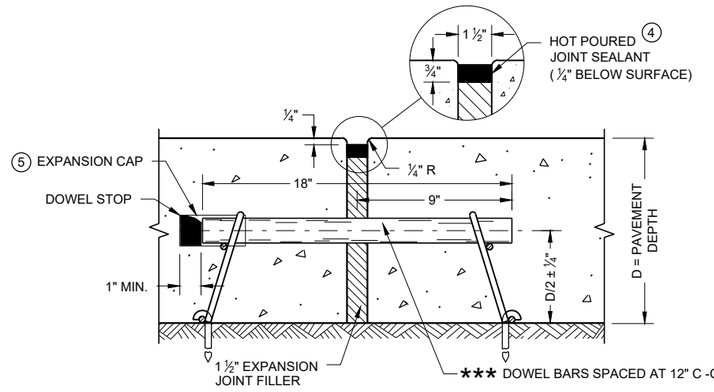
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

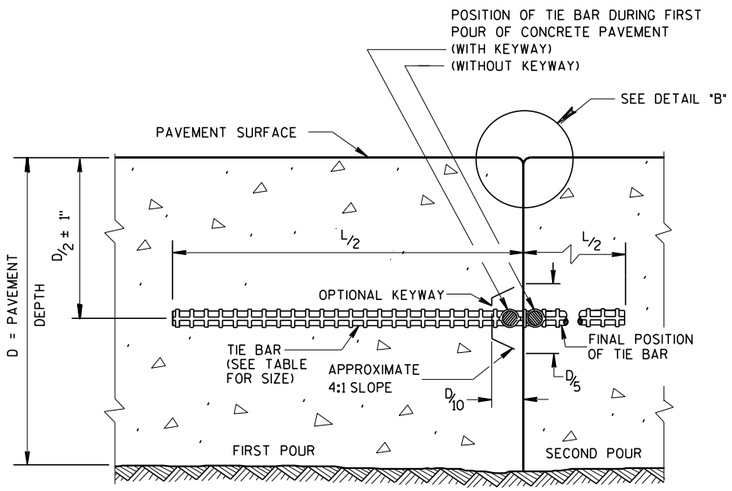
APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVISO

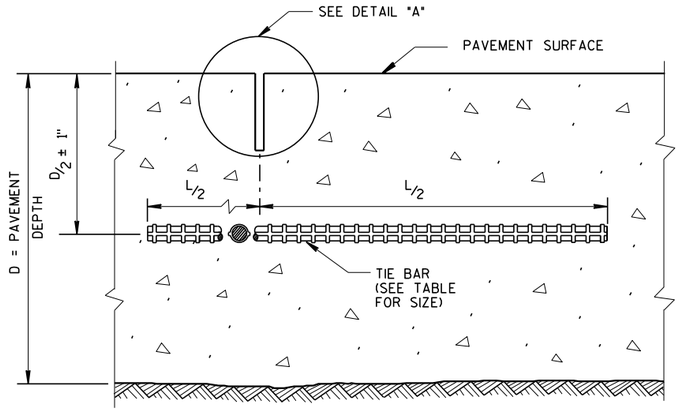
FHWA

6

SDD 13B02 - 09a



CONSTRUCTION JOINT



SAWED JOINT

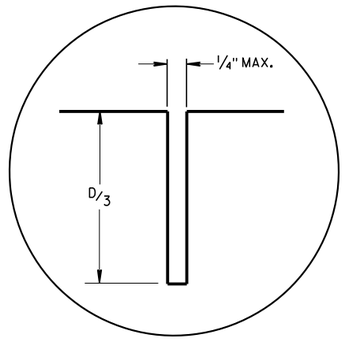
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

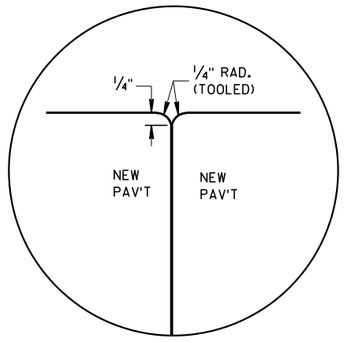
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

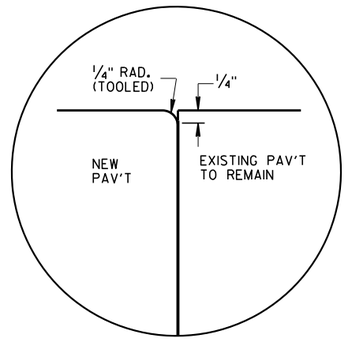
(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



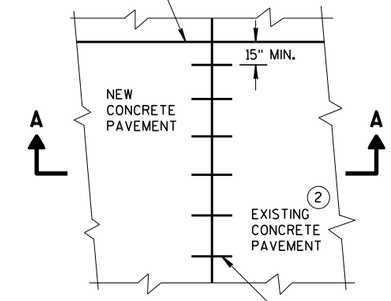
DETAIL "A"



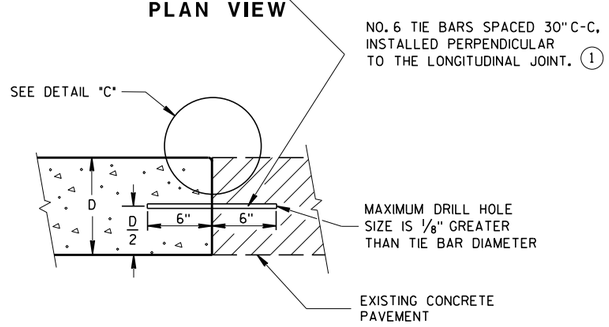
DETAIL "B"



DETAIL "C"



PLAN VIEW



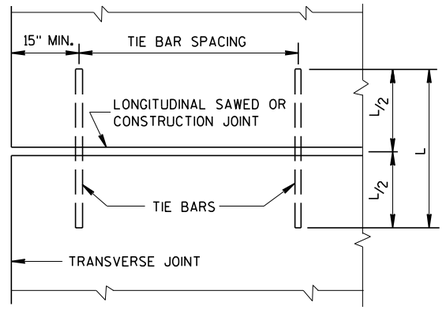
SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

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

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



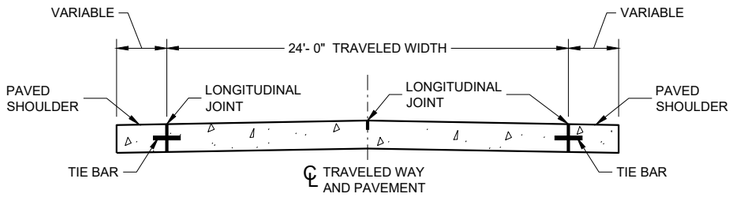
PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

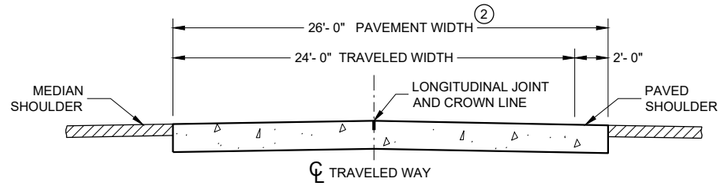
APPROVED
March 2018 — DATE
/S/ Peter Kemp — PAVEMENT SUPE
FHWA

6
S.D.D. 13 C 1-19

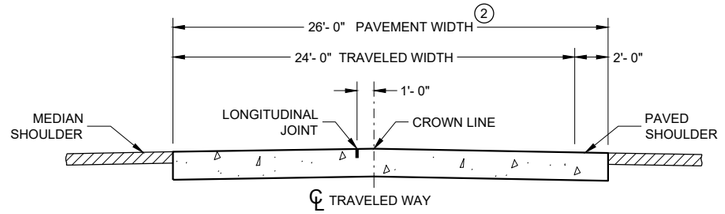


SECTION A - A

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

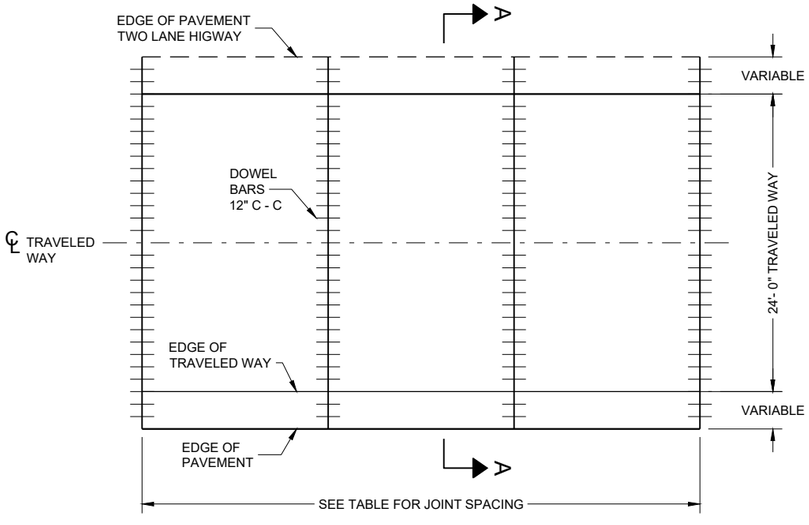
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

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

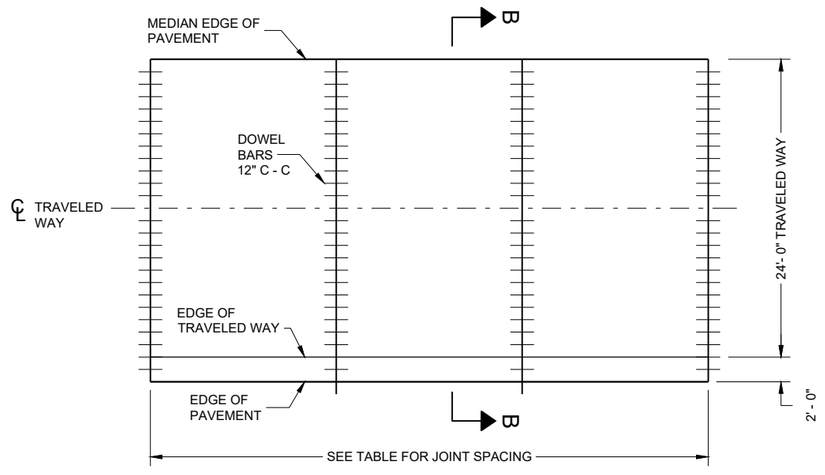
(2) MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED "PAVED SHOULDER" AS CONCRETE PAVEMENT.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9" & ABOVE	1 ¼"	15'



CONTRACTION JOINT LAYOUT FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINT LAYOUT FOR DIVIDED HIGHWAY

RURAL DOWELED CONCRETE PAVEMENT

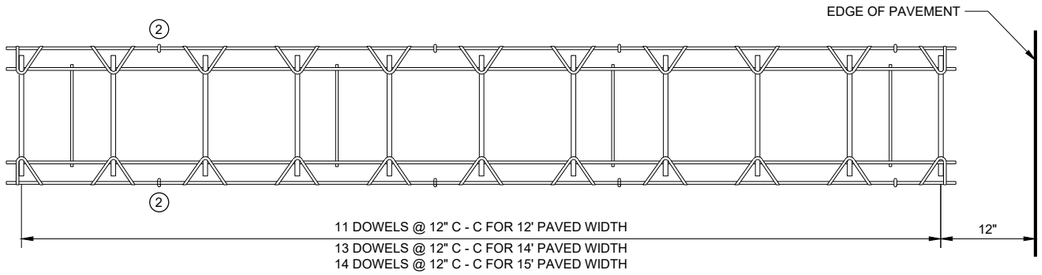
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD13C11 - 13a

6

SDD13C11 - 13a



PLAN VIEW



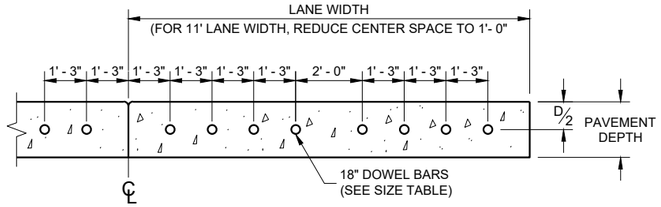
SIDE VIEW

(NORMAL TO CENTERLINE)

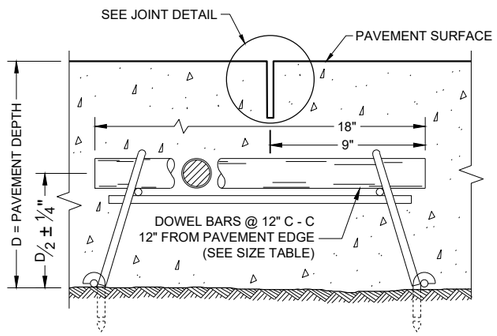
CONTRACTION JOINT DOWEL ASSEMBLY (1)

GENERAL NOTES

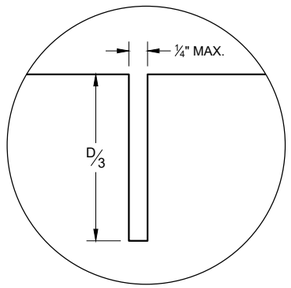
1. OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.
2. SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND 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.



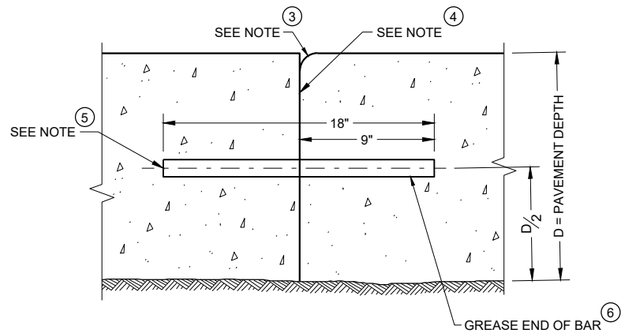
DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



DOWELED CONTRACTION JOINT



JOINT DETAIL



TRANSVERSE CONSTRUCTION JOINT

RURAL DOWELED CONCRETE PAVEMENT

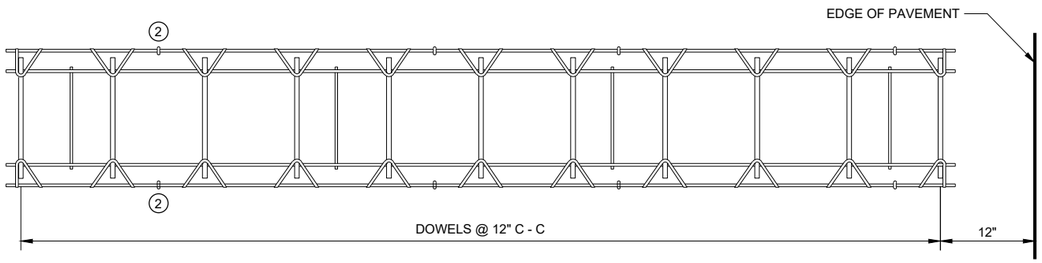
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
00-00-00 DATE
/S/ <AUTHOR> PAVEMENT SUPERVIS

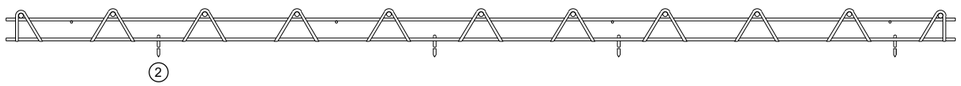
FHWA

6

SDD 13C11 - 13b
SDD 13C11 - 13b

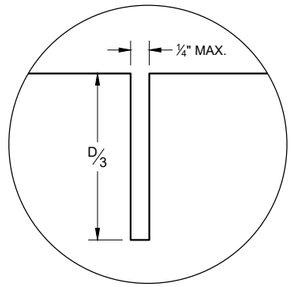


PLAN VIEW



SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY (1)



JOINT DETAIL

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) 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.

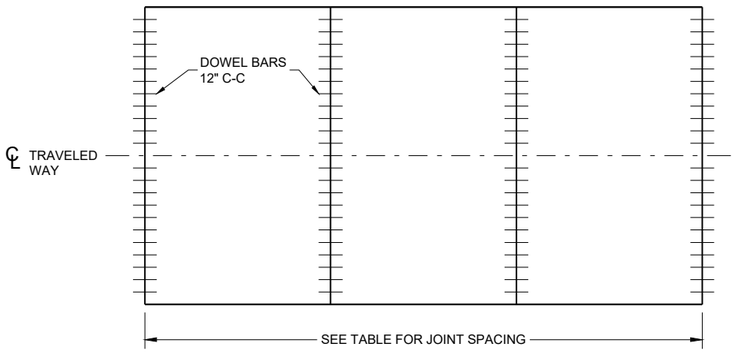
(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.

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

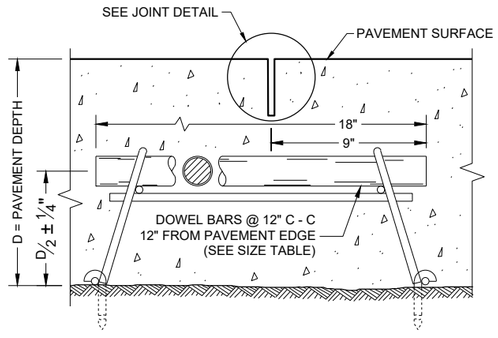
(5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED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



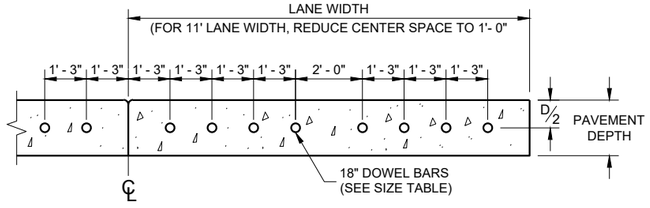
CONTRACTION JOINT LOCATIONS



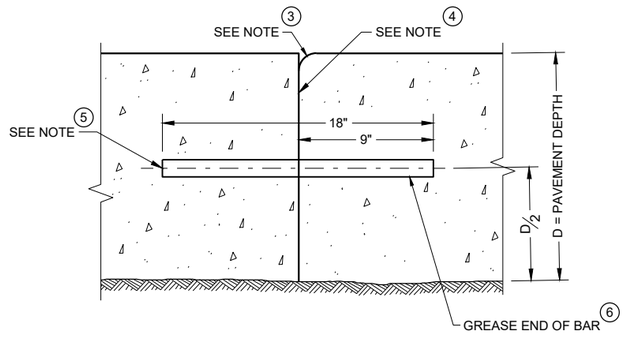
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9" & ABOVE	1 ¼"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



TRANSVERSE CONSTRUCTION JOINT

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUPERVIS

FHWA

6

SDD 13C13 - 10

6

SDD 13C13 - 10

GENERAL NOTES

PCCP = PORTLAND CEMENT CONCRETE PAVEMENT.

SHLDR = SHOULDER.

CONTINUE SAW CUT CONTRACTION JOINT ACROSS TURN LANE, EXIT TAPER AND PASSING LANE.

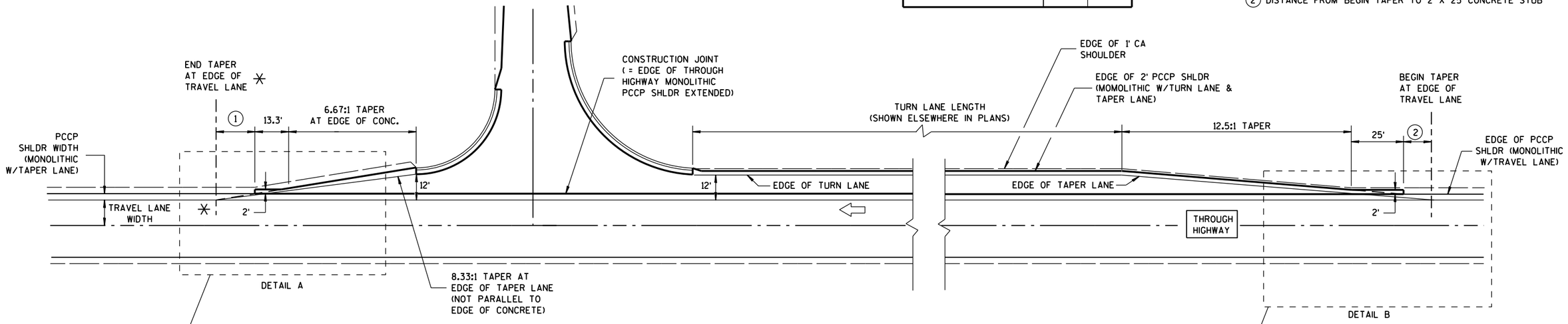
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

THROUGH HIGHWAY LANE WIDTH AND PCCP SHOULDER WIDTH ARE SHOWN ELSEWHERE IN PLANS

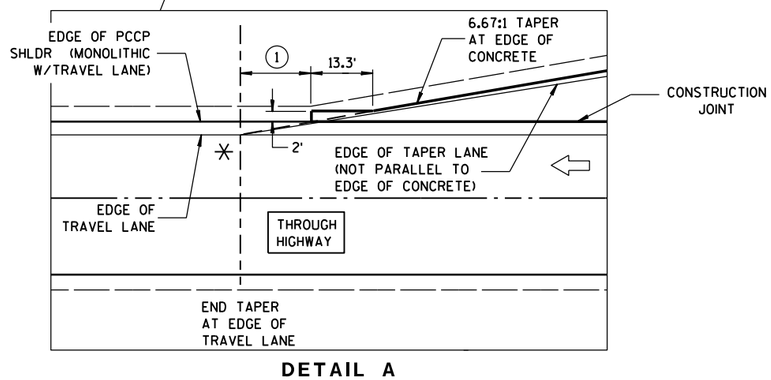
(1) DISTANCE FROM END TAPER TO 2' X 13.3' CONCRETE STUB

(2) DISTANCE FROM BEGIN TAPER TO 2' X 25' CONCRETE STUB

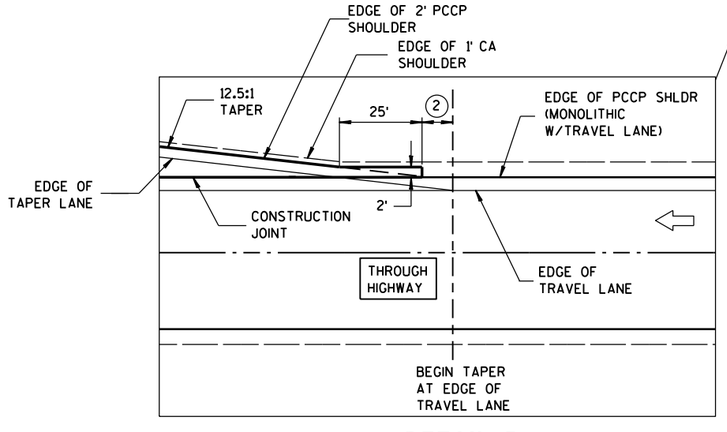
THROUGH HIGHWAY MONOLITHIC PCCP SHOULDER WIDTH (FEET)	DISTANCE (FEET) (1)	DISTANCE (FEET) (2)
2	13.3	0.0
3	20.0	12.5
TAPER RATE : 1	6.67	12.5



✳ NOTE: EDGE OF CONCRETE TAPER (EXTENDED) & EDGE OF TAPER LANE CONVERGE



DETAIL A

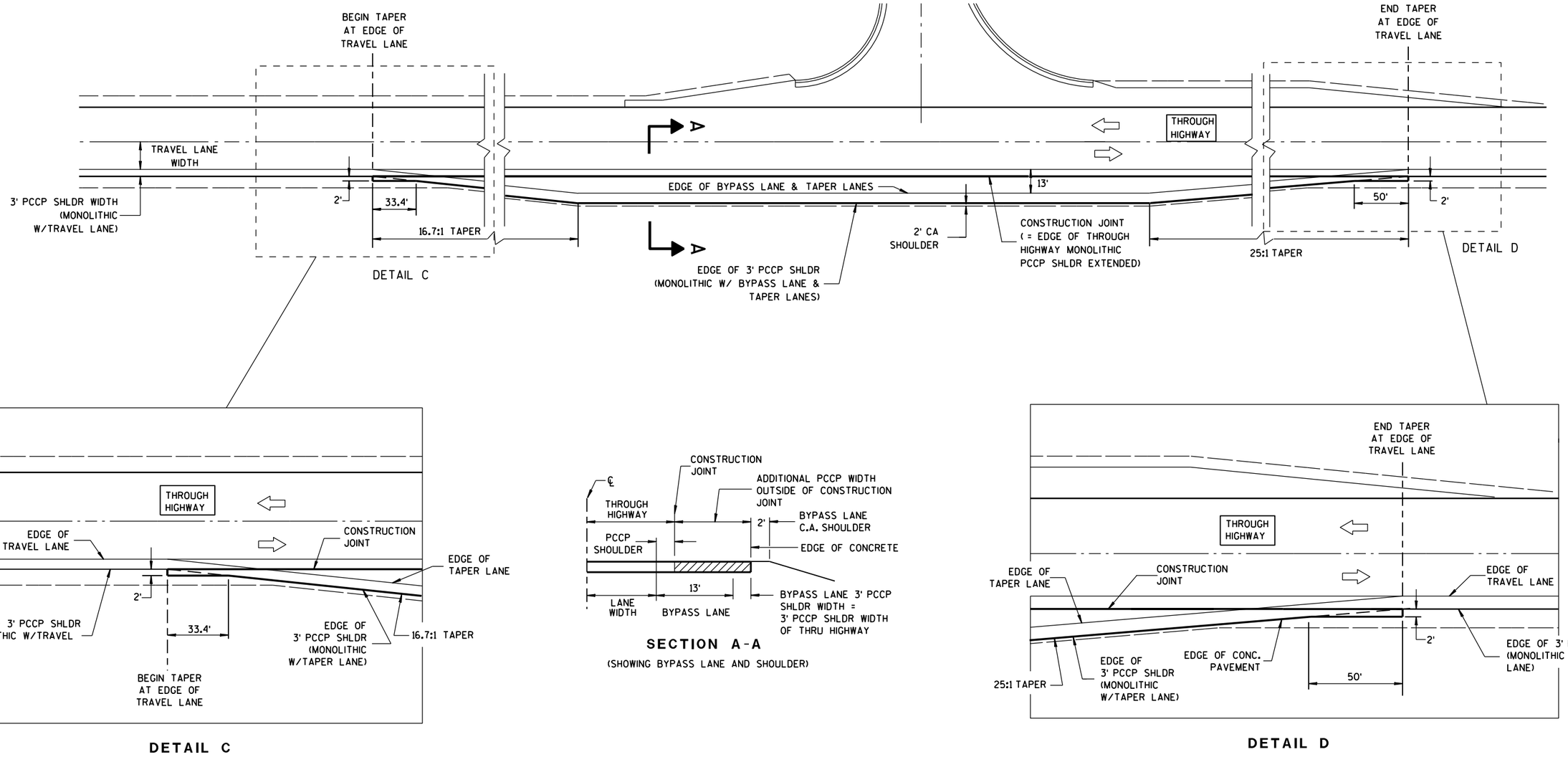


DETAIL B

RIGHT TURN LANE AND EXIT TAPER

DETAIL FOR RIGHT TURN LANE/ TEE INTERSECTION BYPASS LANE ON A CONCRETE ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO



TWO LANE UNDIVIDED HIGHWAY TEE INTERSECTION BYPASS LANE

DETAIL FOR RIGHT TURN LANE/ TEE INTERSECTION BYPASS LANE ON A CONCRETE ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/18/12 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

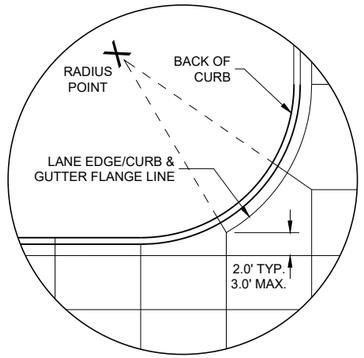
FHWA

6

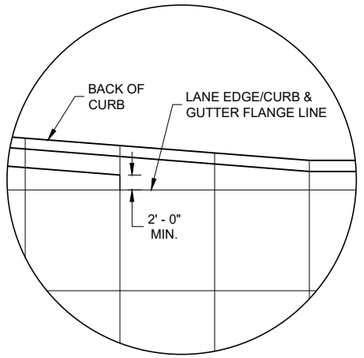
S.D.D. 13 C 16-2b

6

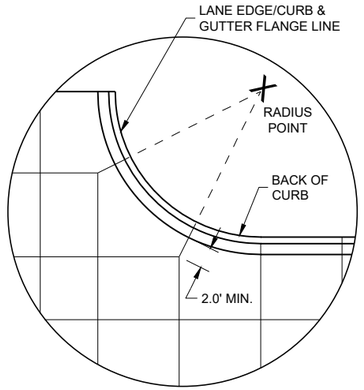
S.D.D. 13 C 16-2b



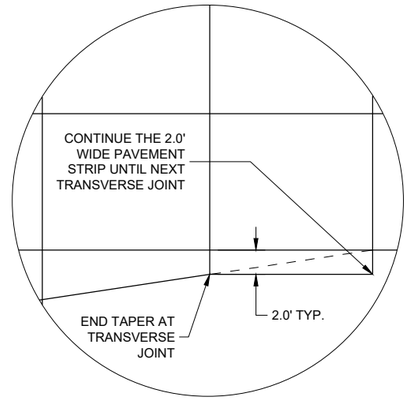
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

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

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

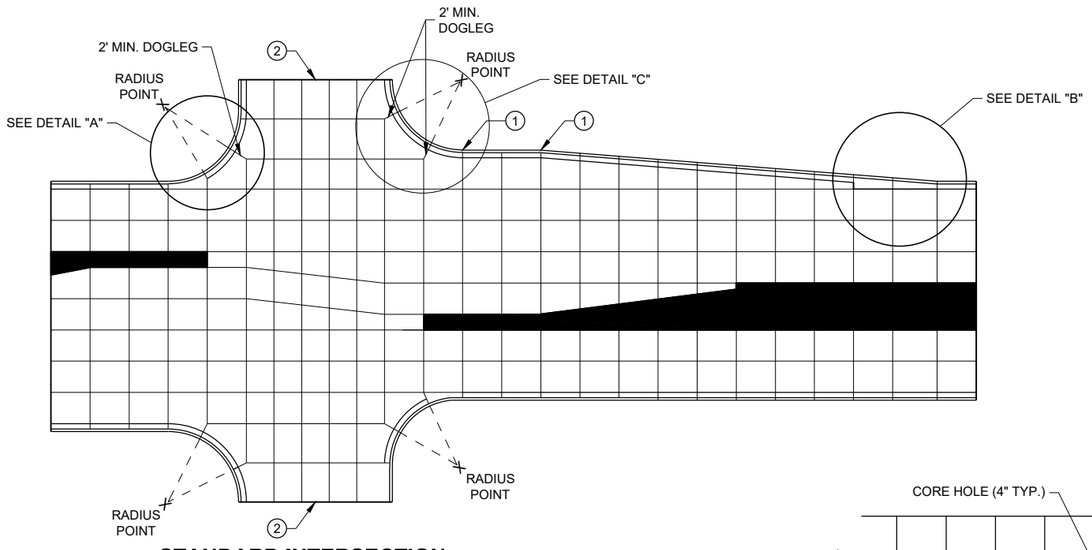
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.

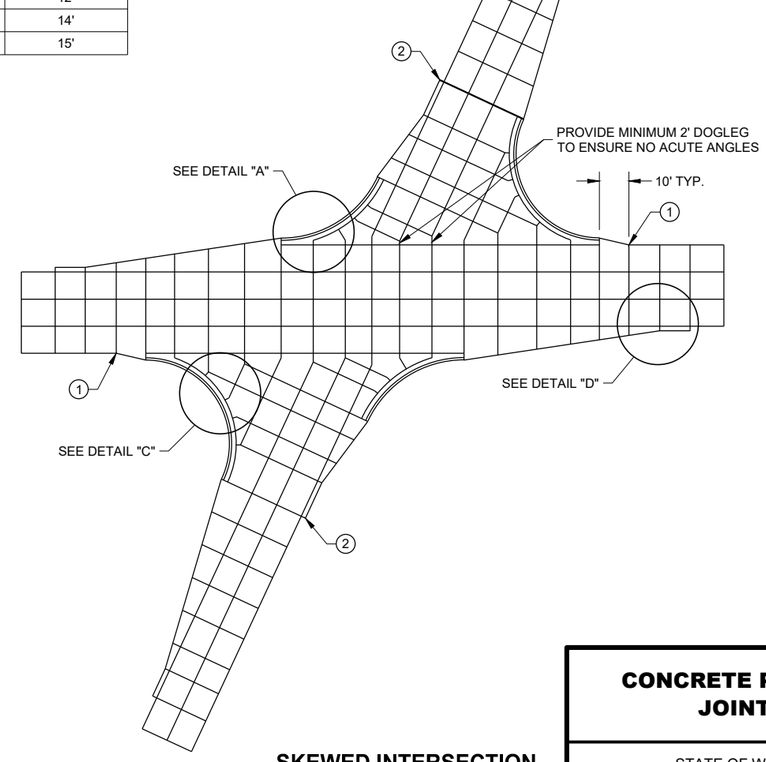
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



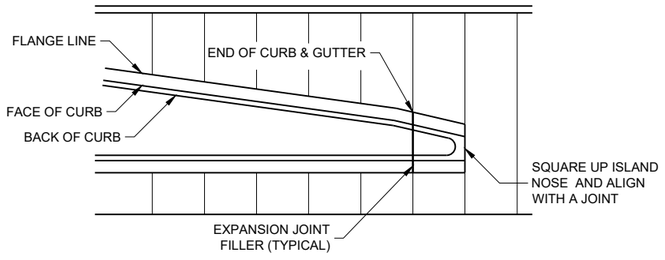
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

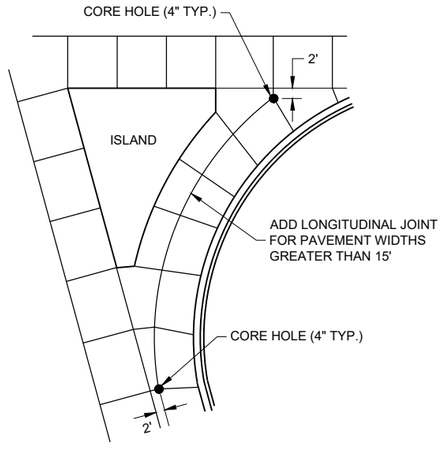
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07a

6

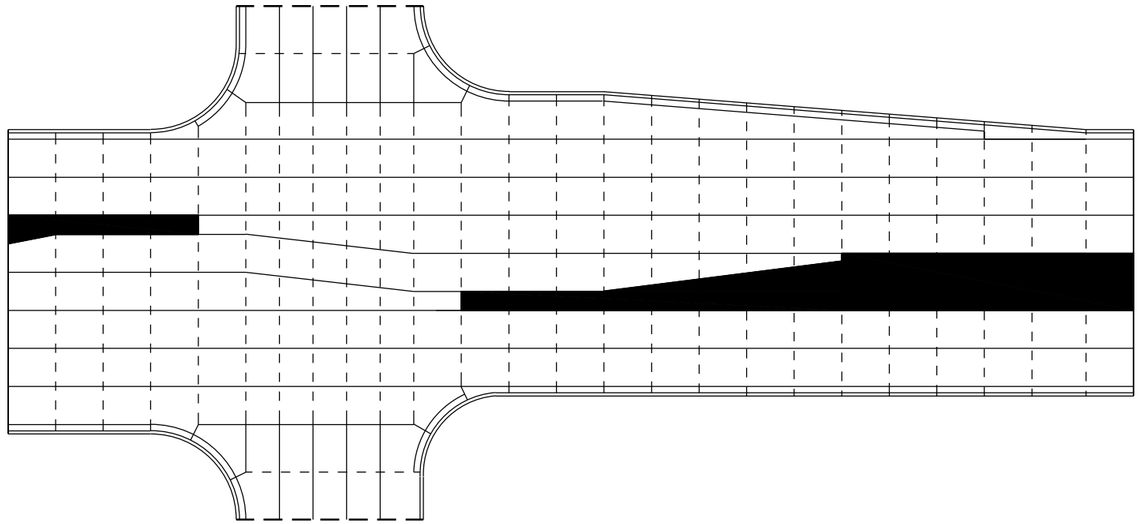
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

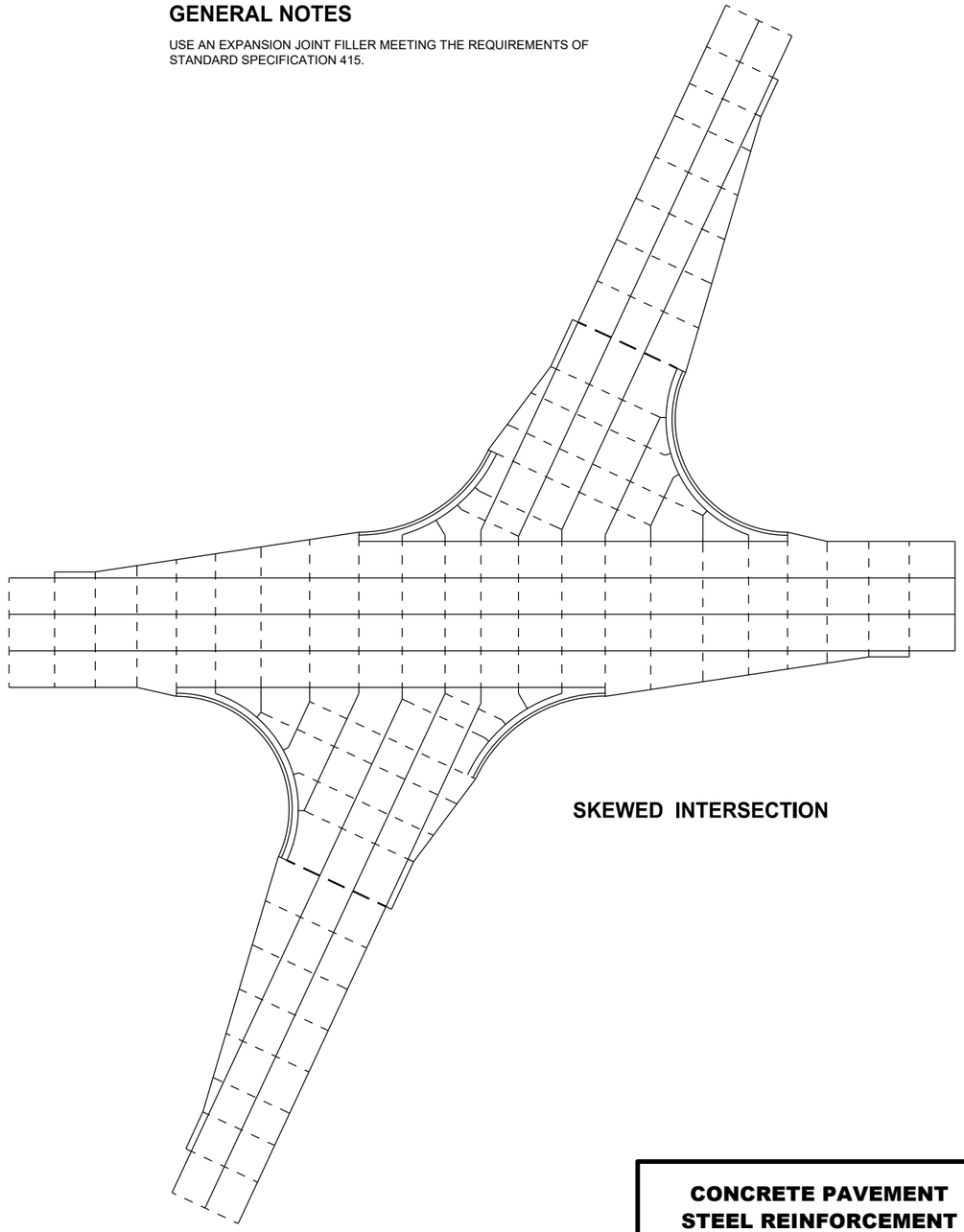
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

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



SKEWED INTERSECTION

6

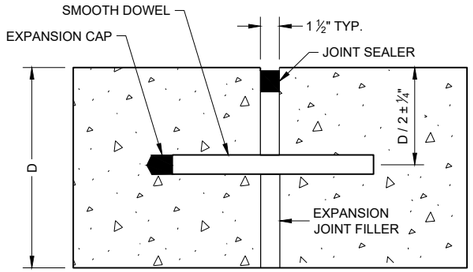
SDD 13C18 - 07b

CONCRETE PAVEMENT STEEL REINFORCEMENT

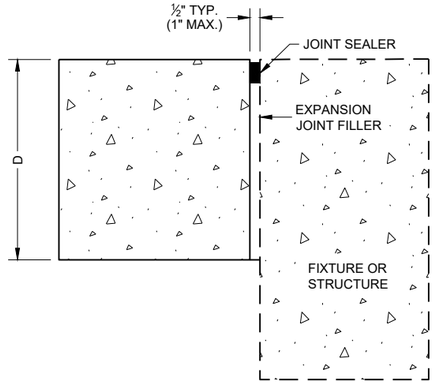
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

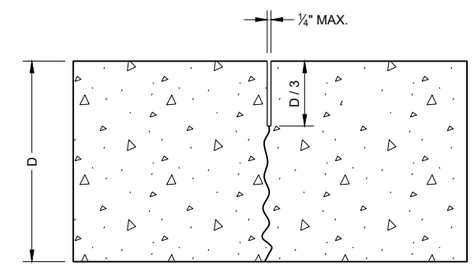
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

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

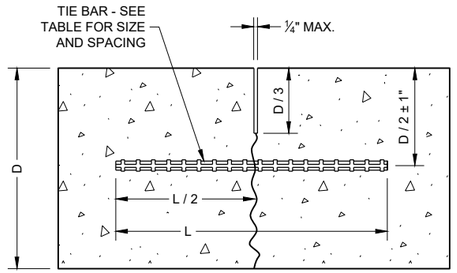
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

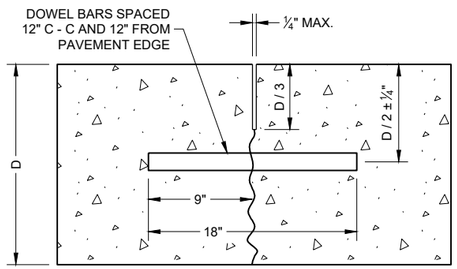
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

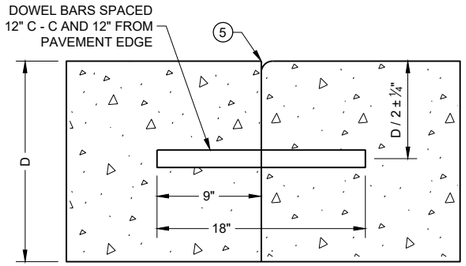


TIED LONGITUDINAL

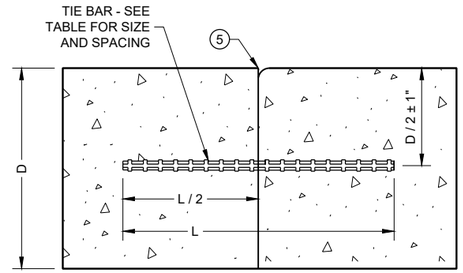


DOWELED TRANSVERSE

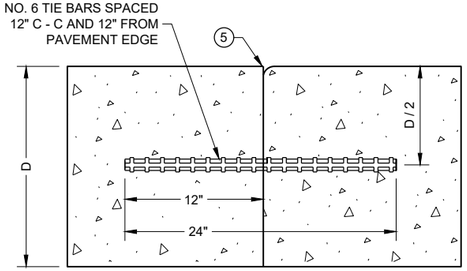
CONTRACTION JOINTS (2)



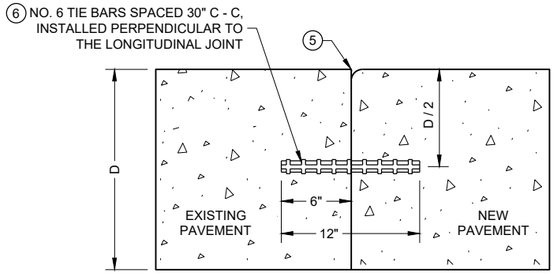
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



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



TIED LONGITUDINAL TO EXISTING

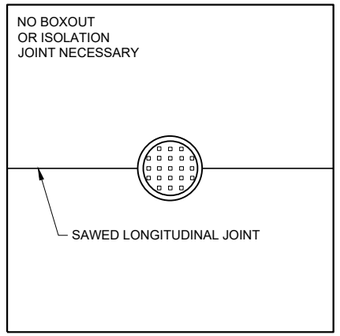
CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

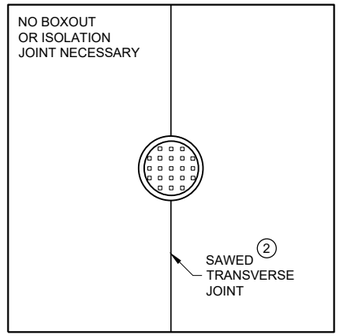
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

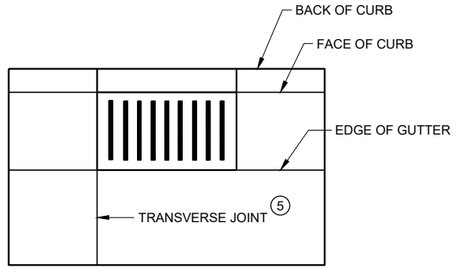
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



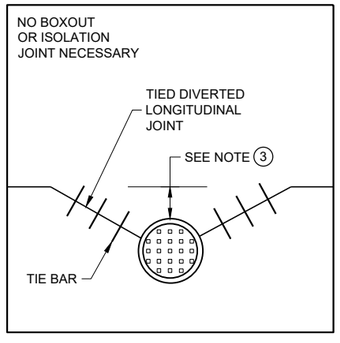
MANHOLE WITH TRANSVERSE JOINT



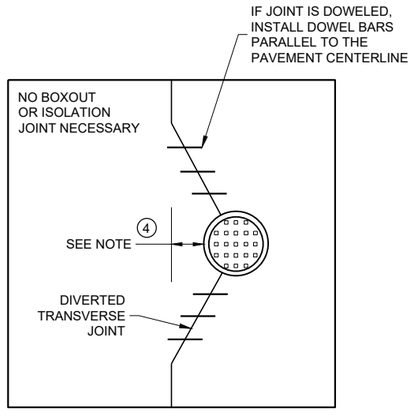
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

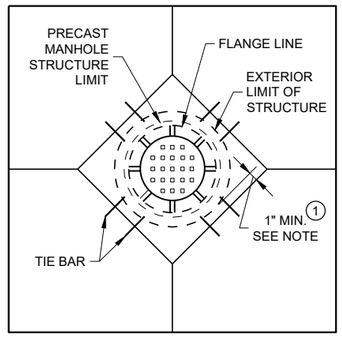
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR

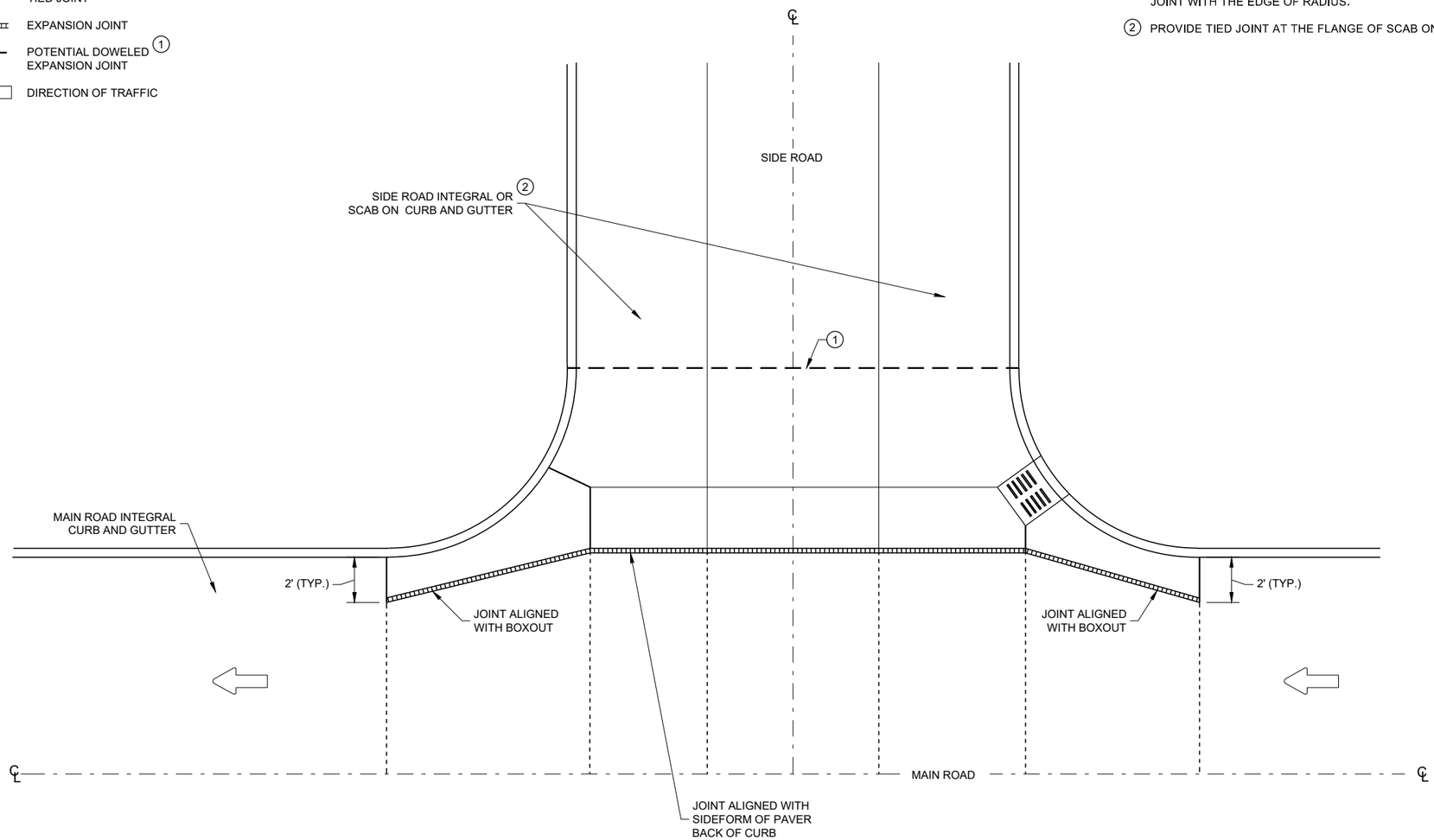
FHWA

6

SDD13C18 - 07d
SDD13C18 - 07d

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
November 2018 — DATE
/S/ Peter Kemp P.E. — ROADWAY STANDARDS DEVE ENGINEER

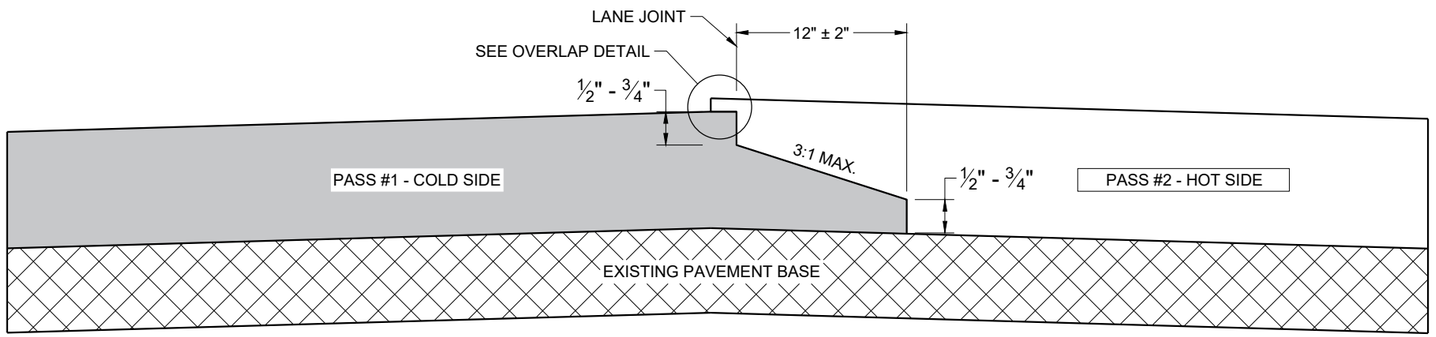
FHWA

6

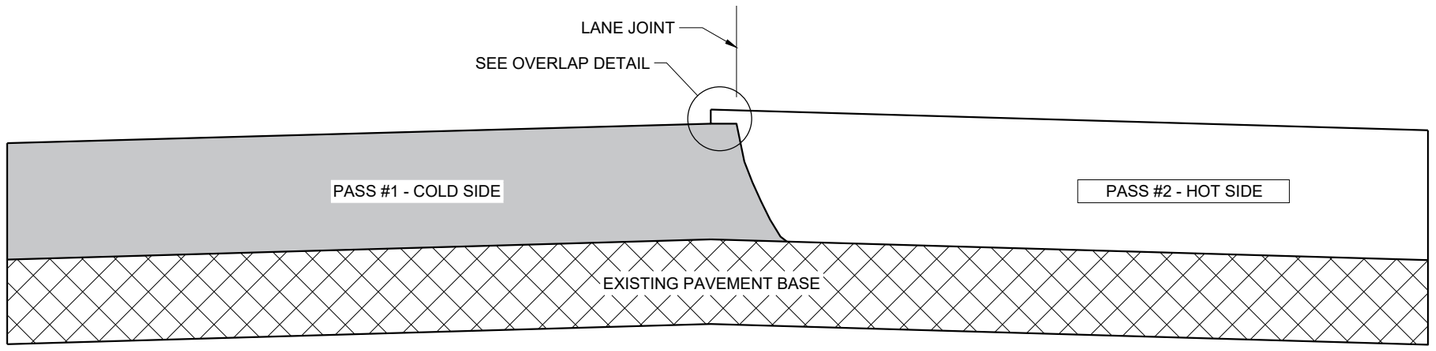
SDD 13C18 - 07f

6

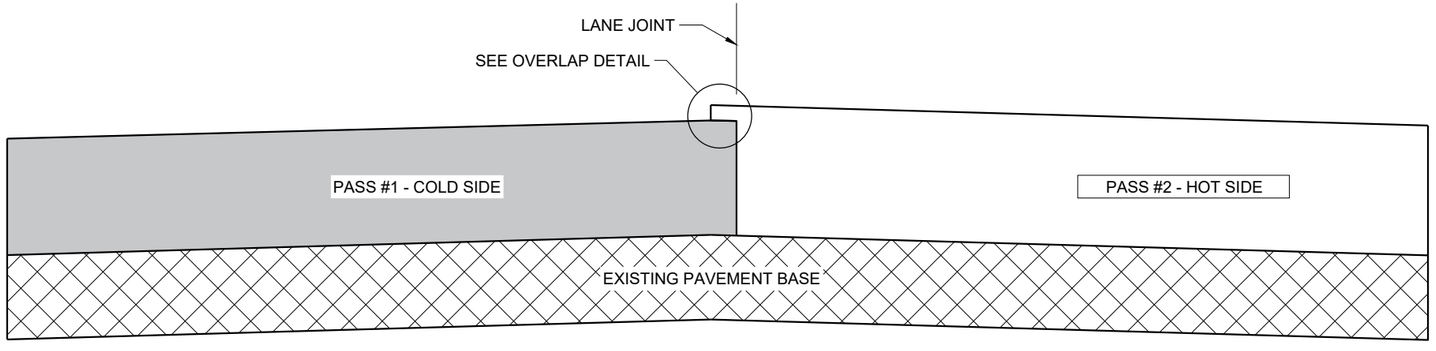
SDD 13C18 - 07f



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

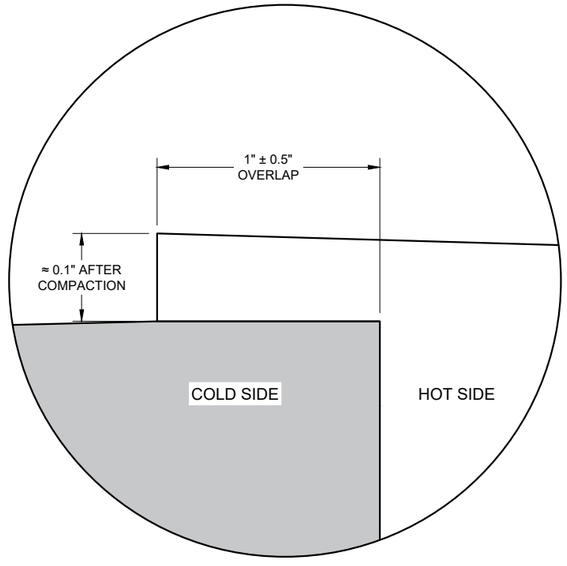
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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

6

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

GENERAL NOTES

(1) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.

DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.

(2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

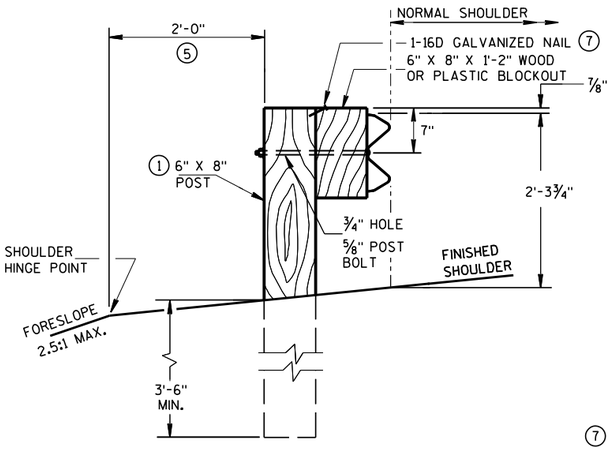
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

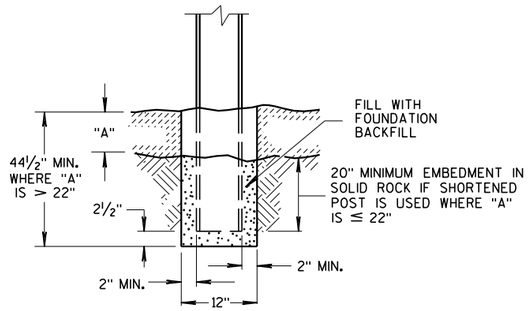
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

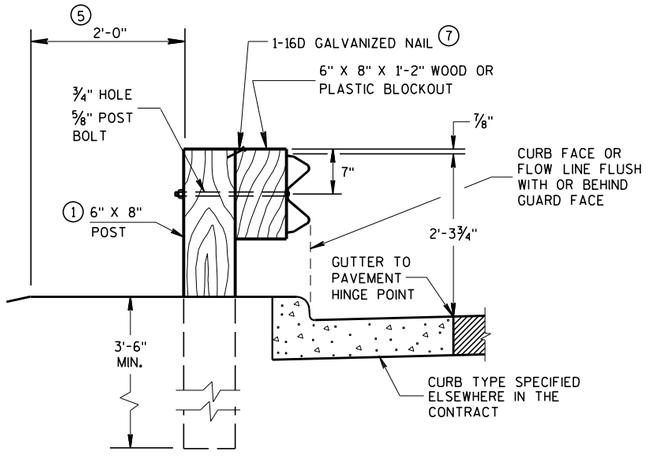
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



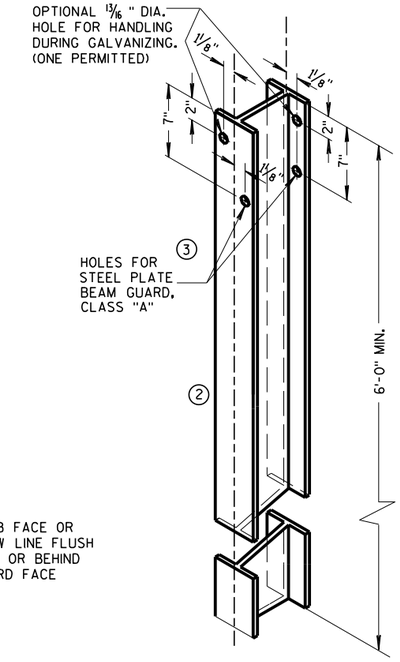
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)

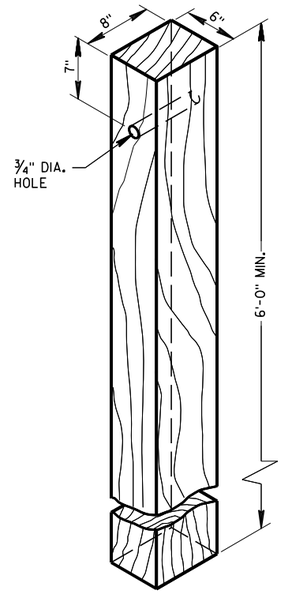


END VIEW
LOCATED ALONG A CURBED ROADWAY

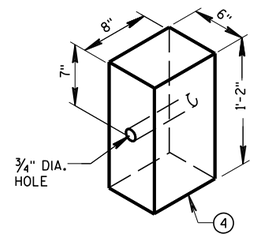


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

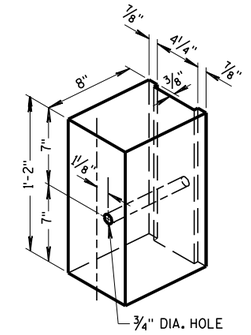
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



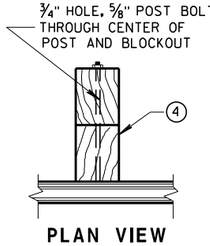
WOOD POST
(6"X8") NOMINAL



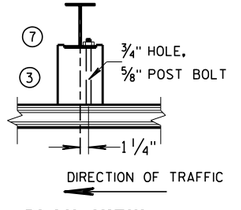
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



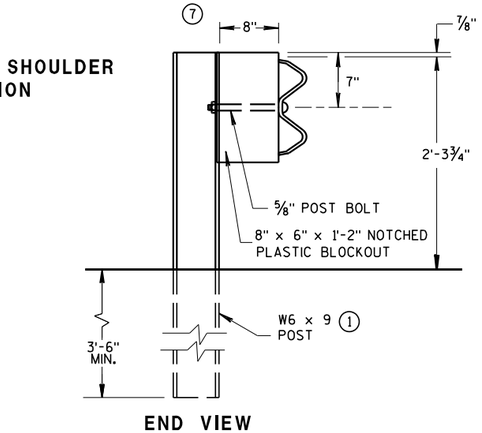
TYPICAL NOTCHED
PLASTIC BLOCKOUT
FOR STEEL POSTS (1)



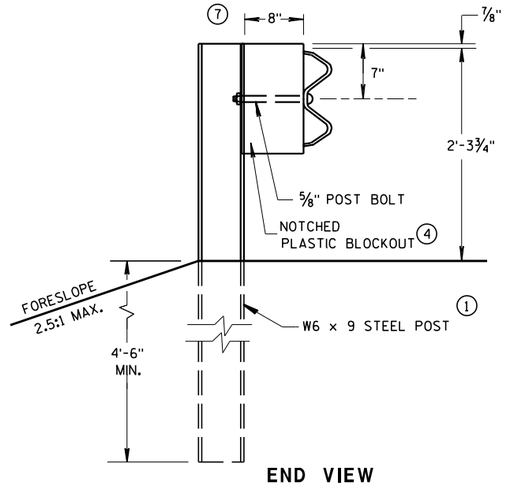
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



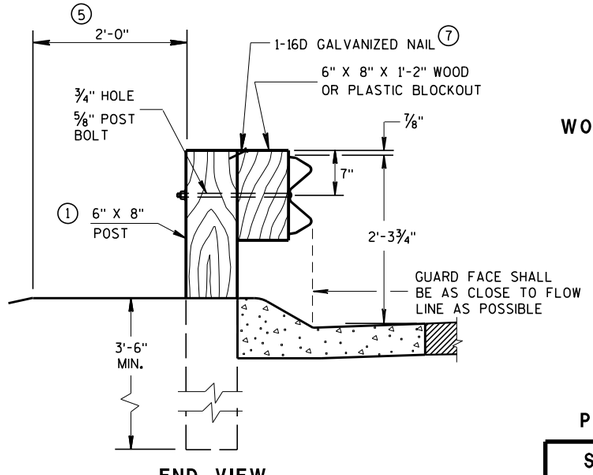
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)



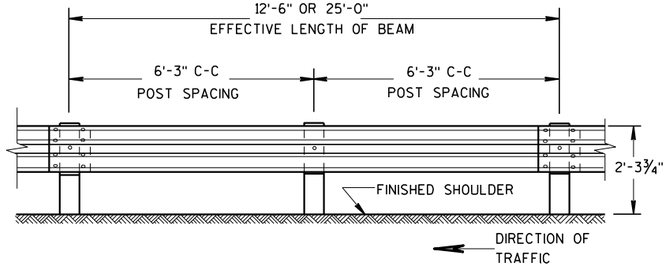
END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

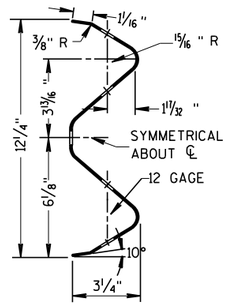
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 15-11a

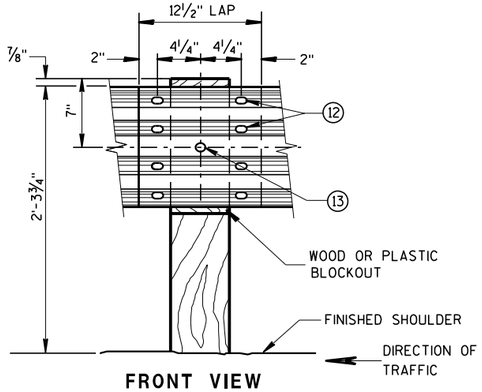


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

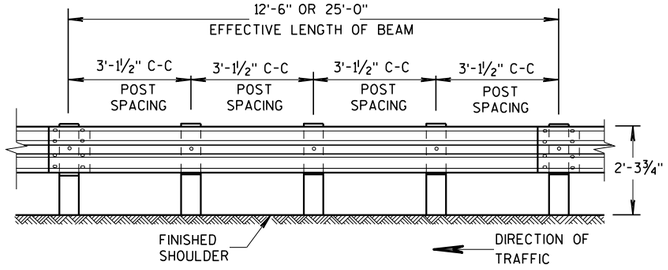
GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST #9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.

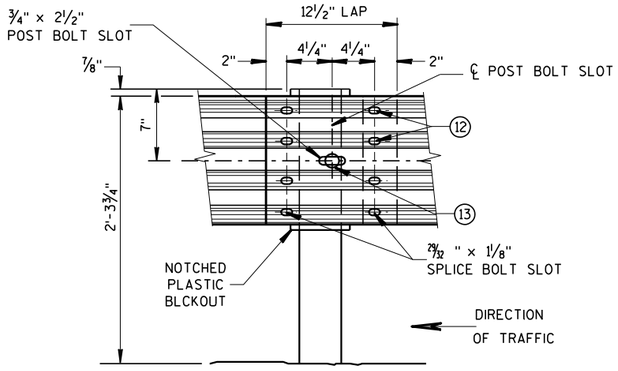
(12) 8 -5/8" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) 5/8" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5/8" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW

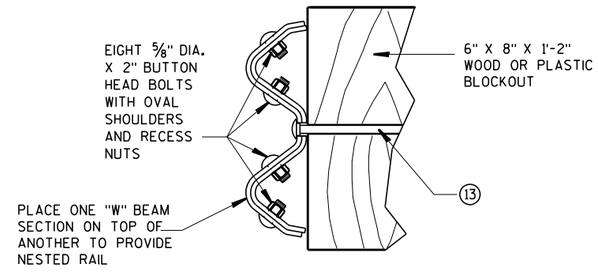
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

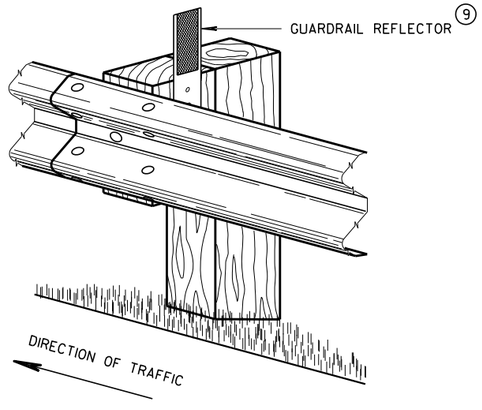
TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



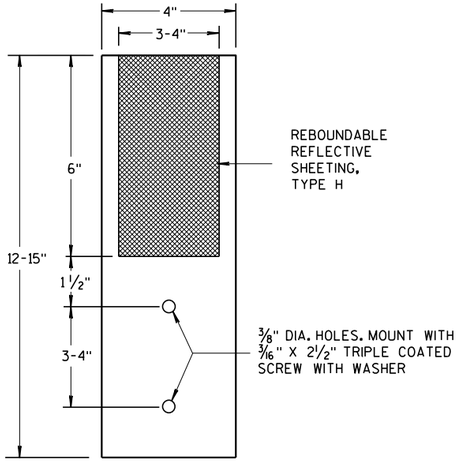
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



4" X 12" GUARDRAIL REFLECTOR DETAIL AND TYPICAL INSTALLATION *



4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

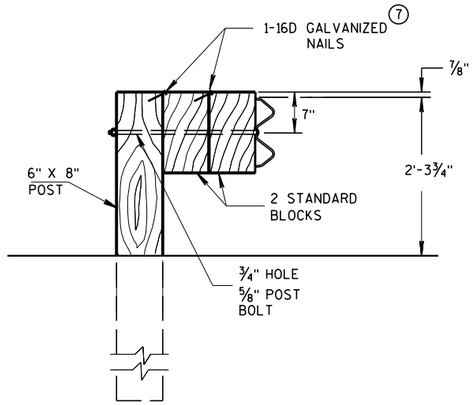
STATE OF WISCO 276
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 15-11b

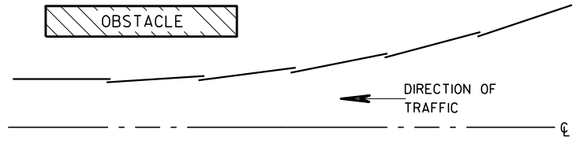
6

S.D.D. 14 B 15-11b

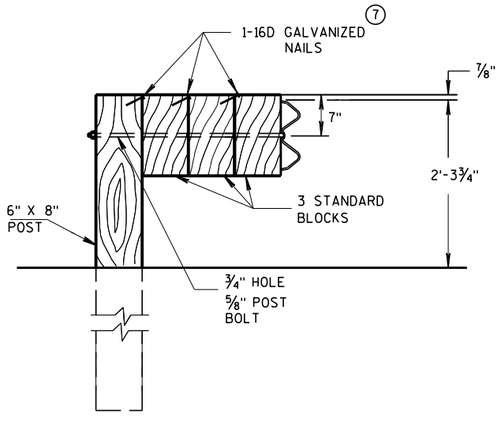


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

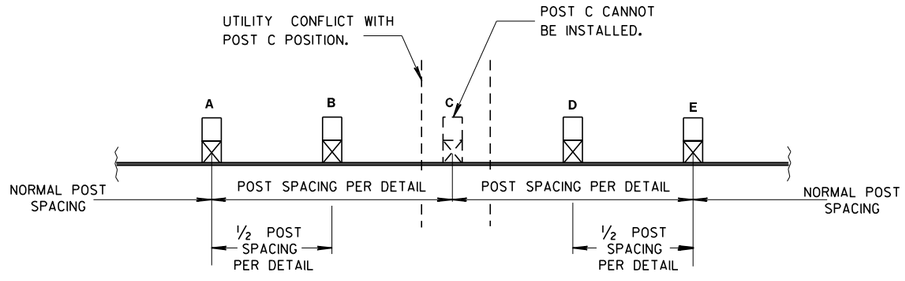


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA 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.

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

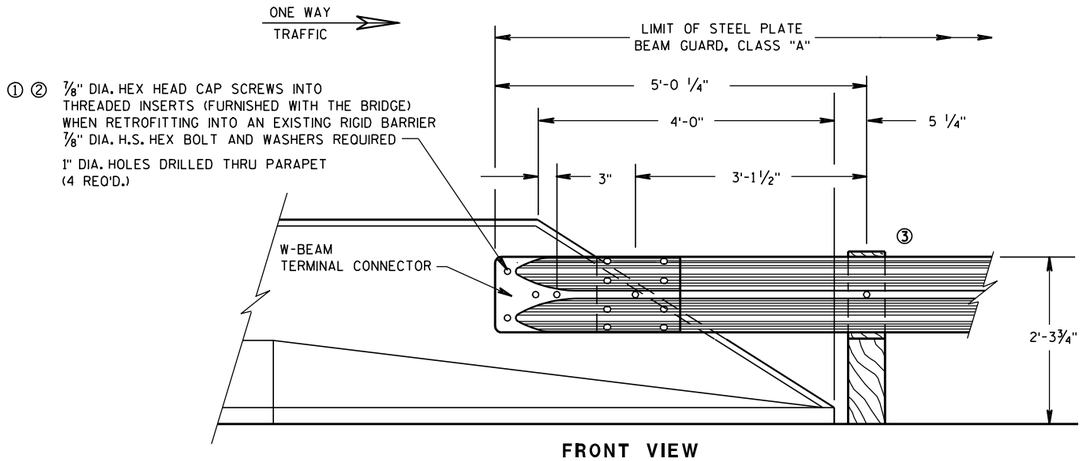
APPROVED
June 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
277
FHWA

6

S.D.D. 14 B 15-11c

6

S.D.D. 14 B 15-11c



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

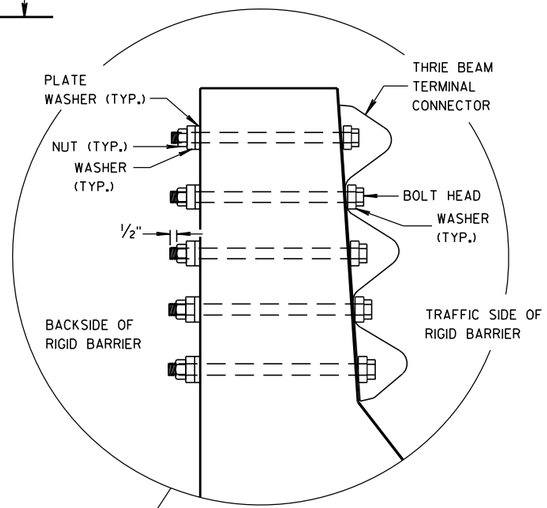
BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

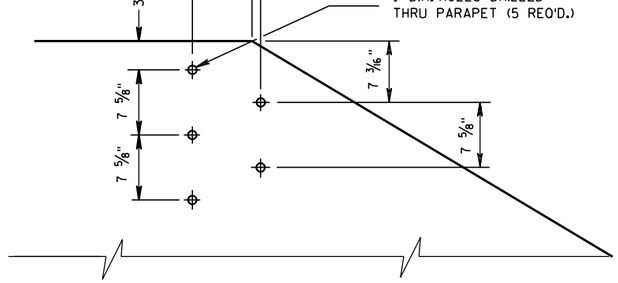
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

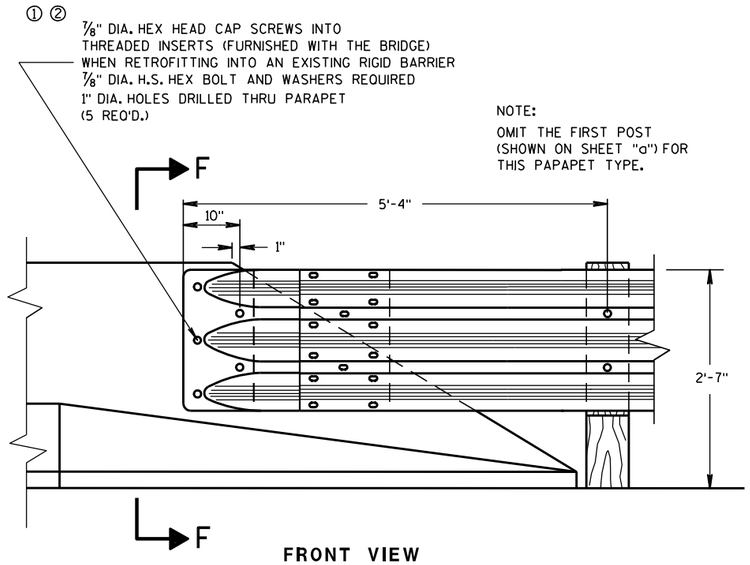
③ W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

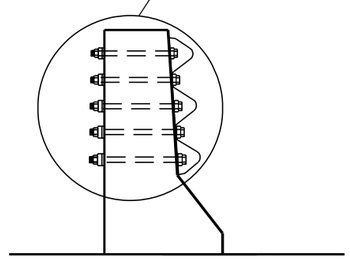




DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION F-F

THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

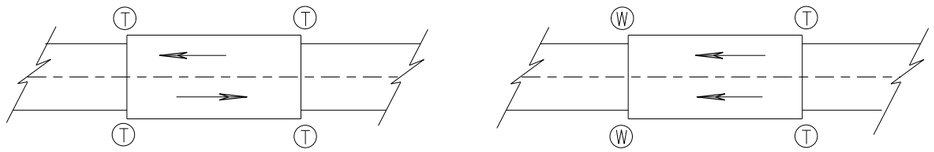
STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SLOPED END PARAPETS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012 — DATE
/S/ Jerry H. [illegible] — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 20-11d



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

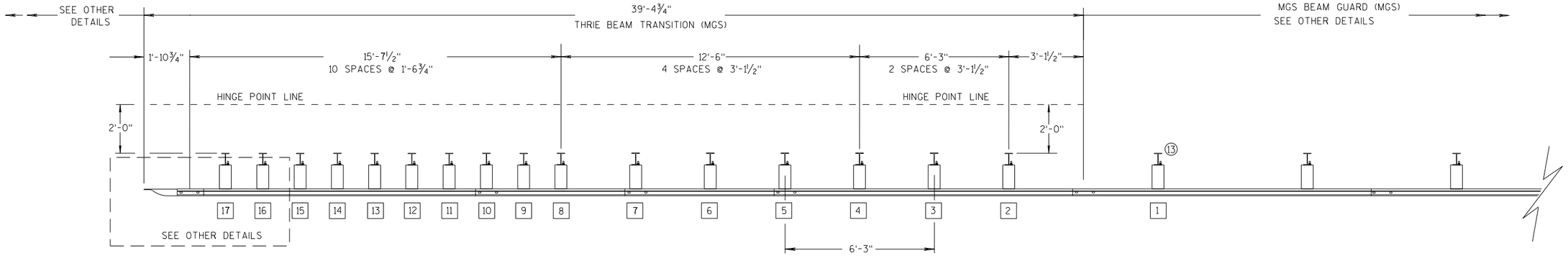
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

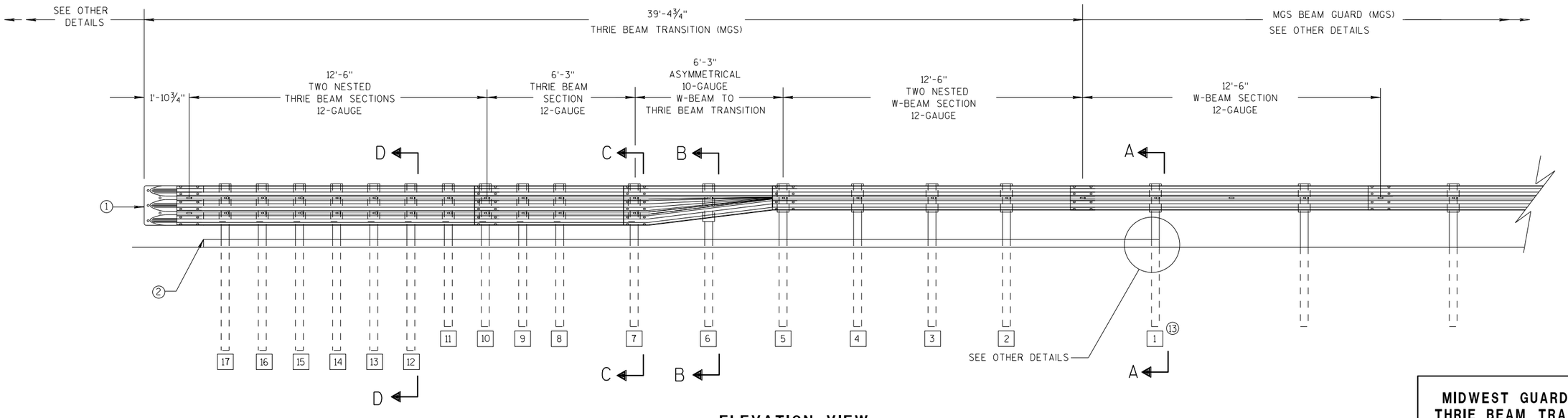
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 279

6

S.D.D. 14 B 45-5a

6

S.D.D. 14 B 45-5a

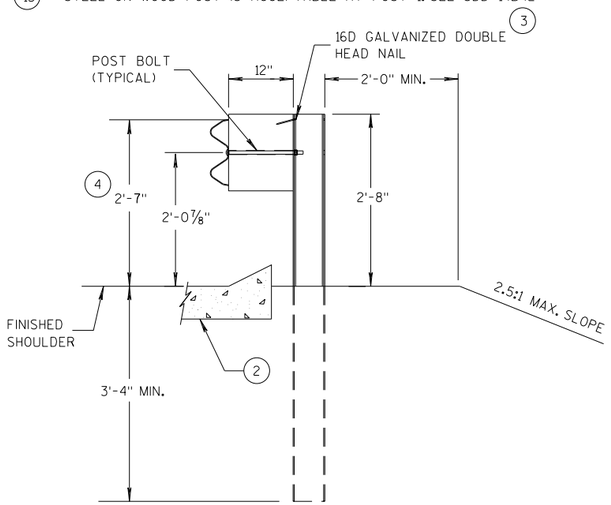
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

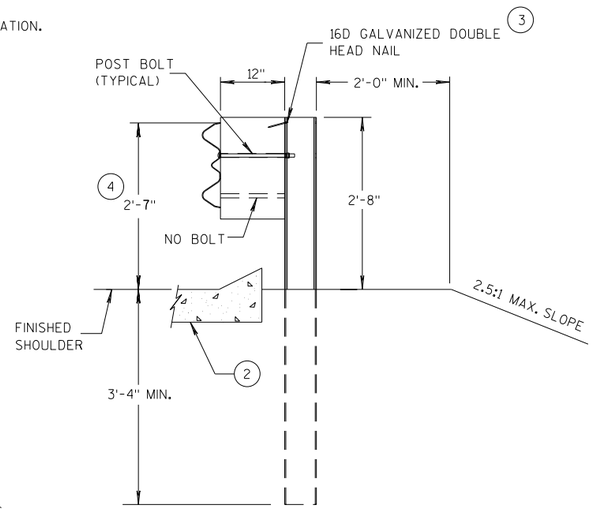
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



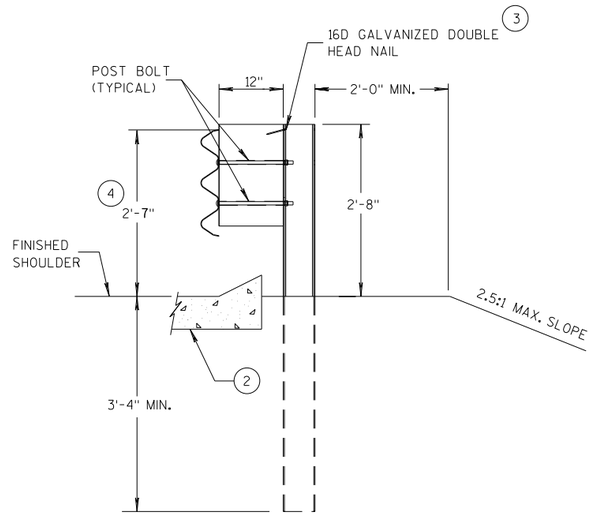
SECTION A-A (13)

POSTS 1-5



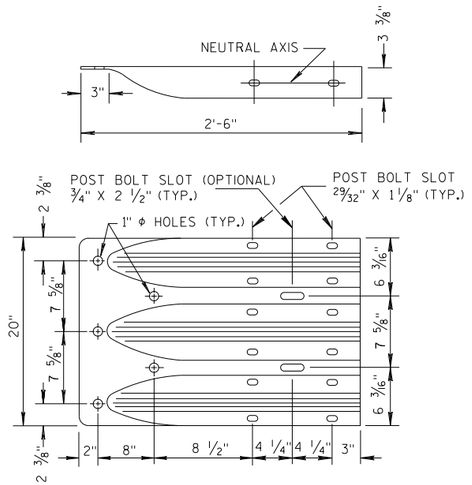
SECTION B-B

POST 6

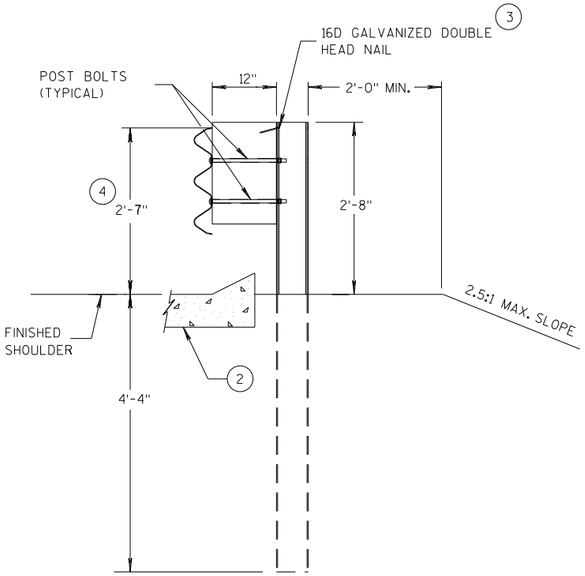


SECTION C-C

POSTS 7-11

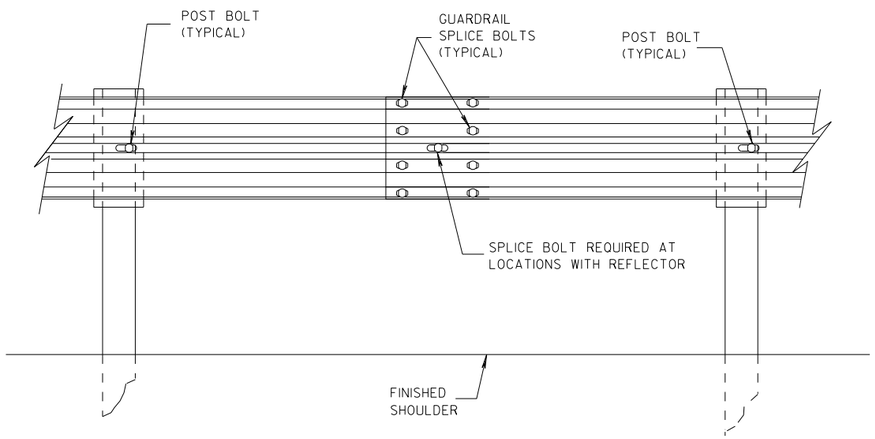


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

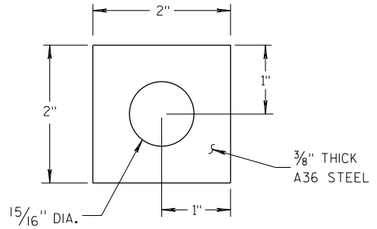
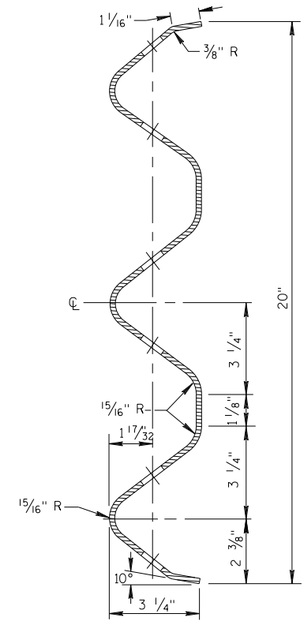


PLATE WASHER DETAIL



SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

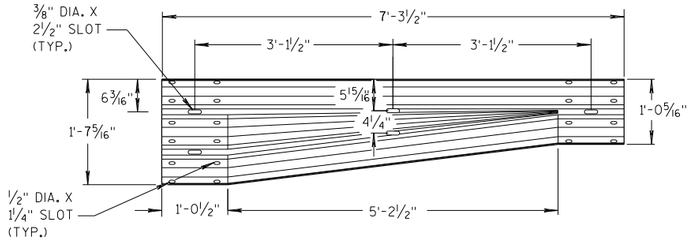
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF 280

6

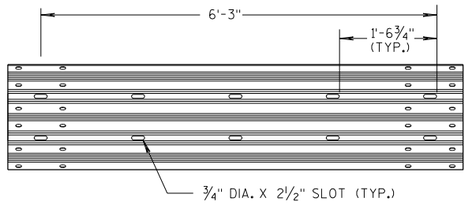
S.D.D. 14 B 45-5b

6

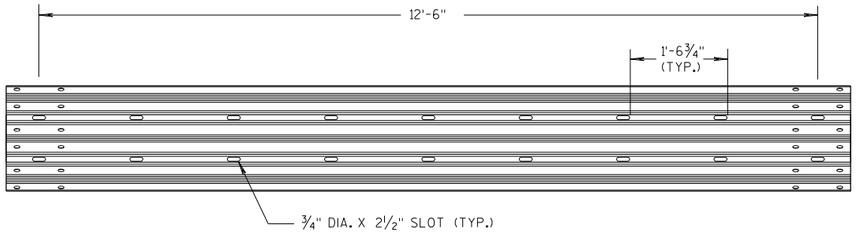
S.D.D. 14 B 45-5b



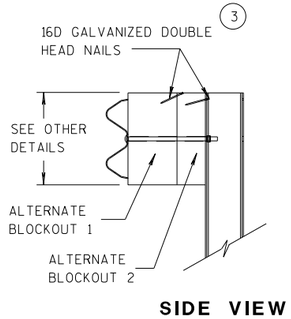
W-BEAM TO THRIE BEAM TRANSITION SECTION



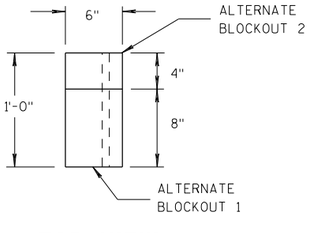
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

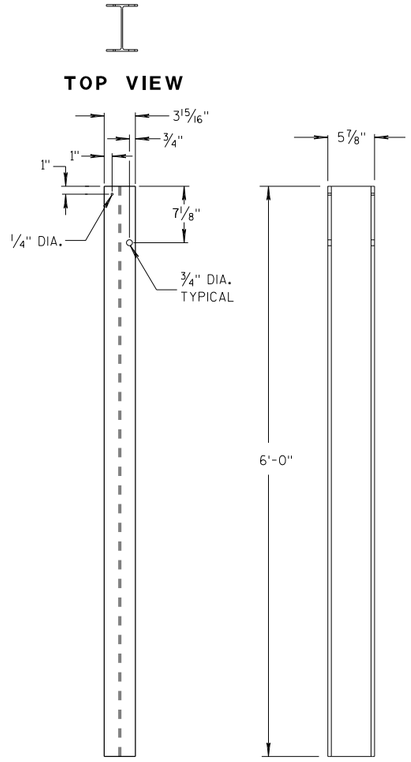


SIDE VIEW



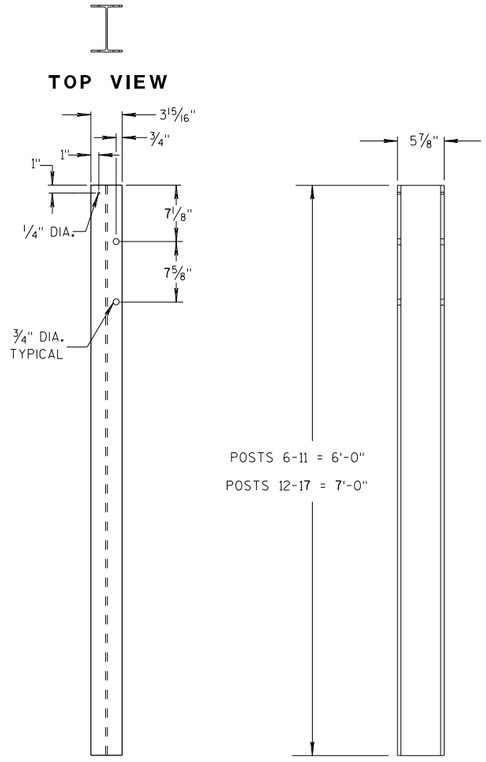
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



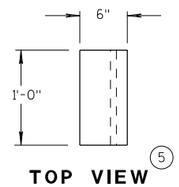
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

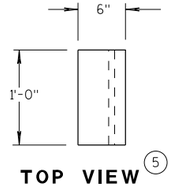


FRONT VIEW SIDE VIEW

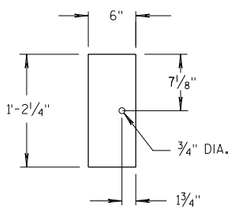
STEEL POSTS 6-17



TOP VIEW (5)

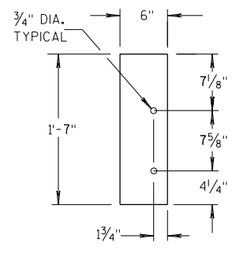


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

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

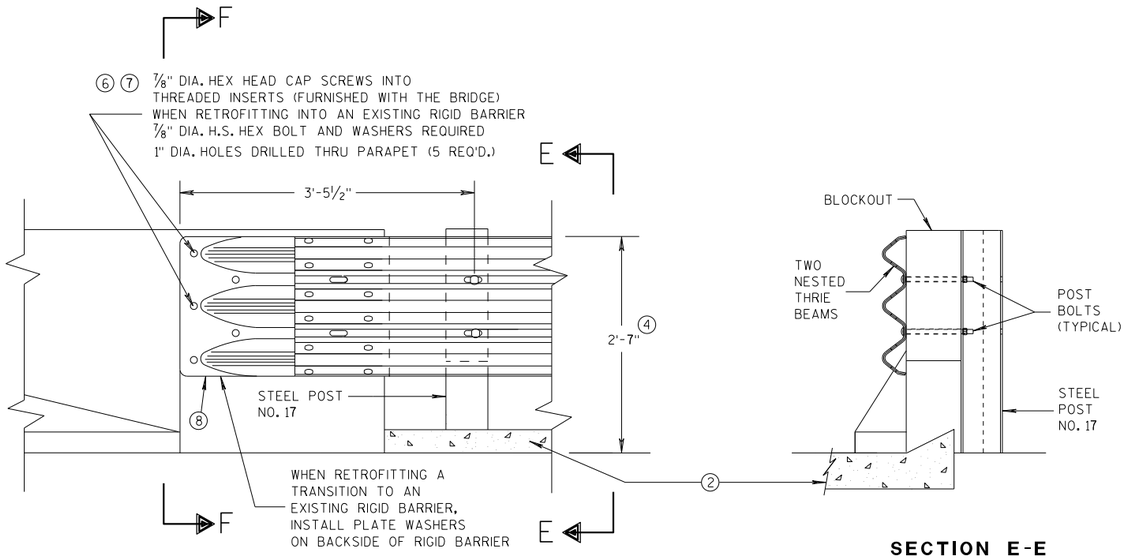
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 281

6
S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

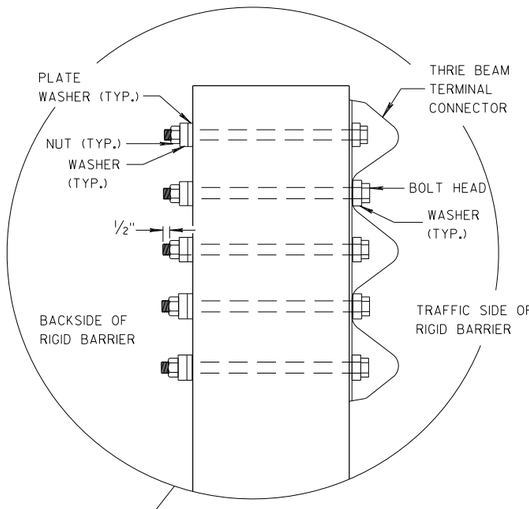
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

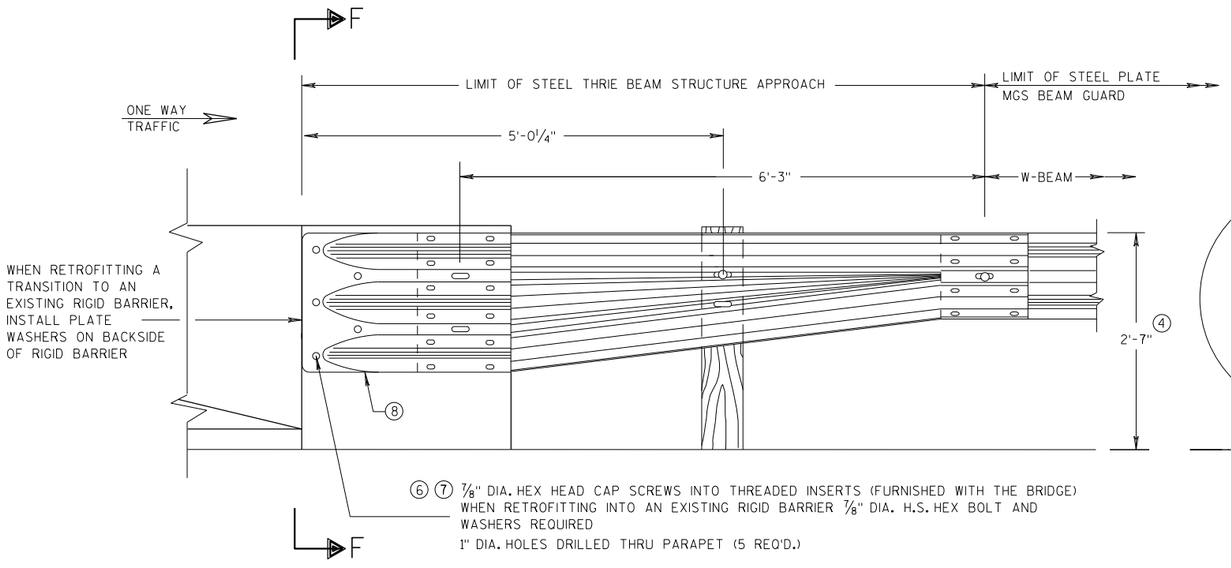
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

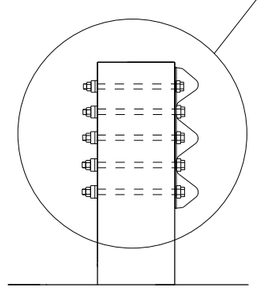
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

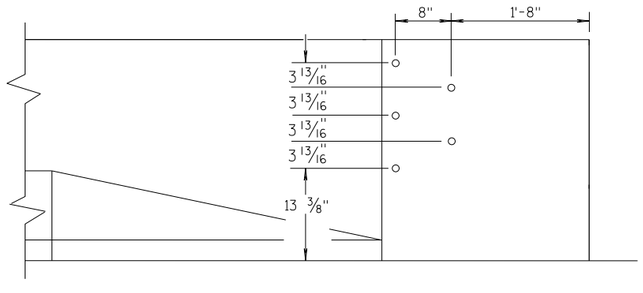




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[illegible] UNIT SUPERVIS[illegible] — NT
FHWA

6

S.D.D. 14 B 45-5d

6

S.D.D. 14 B 45-5d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

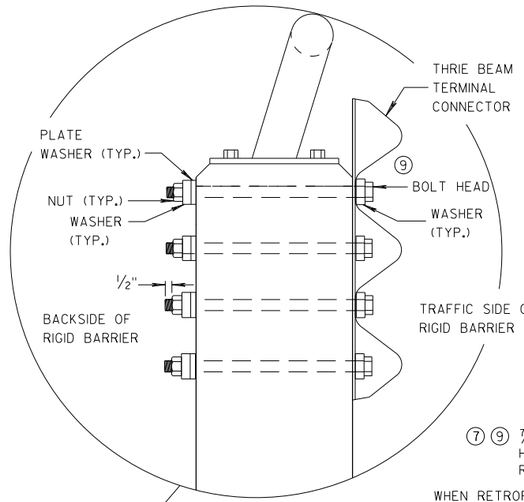
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

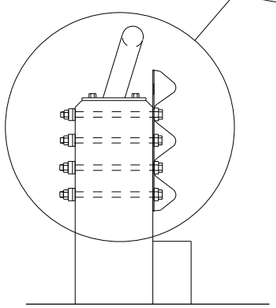
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

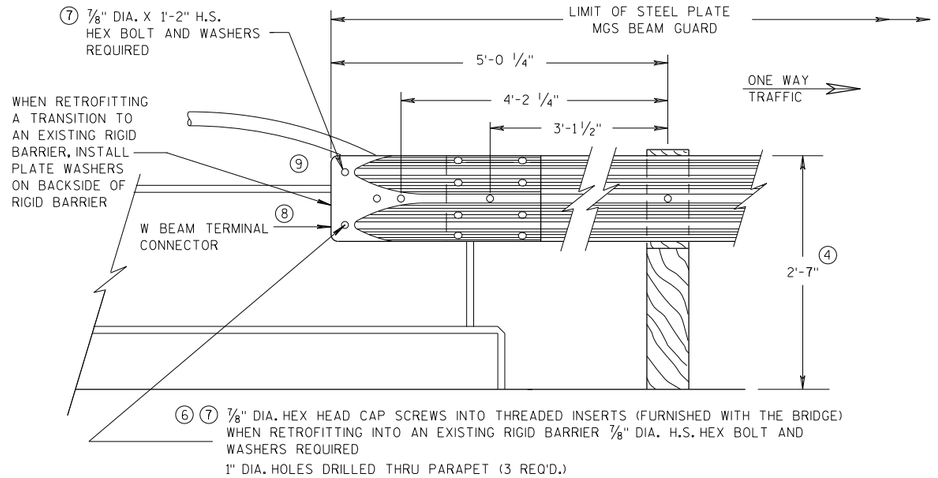
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





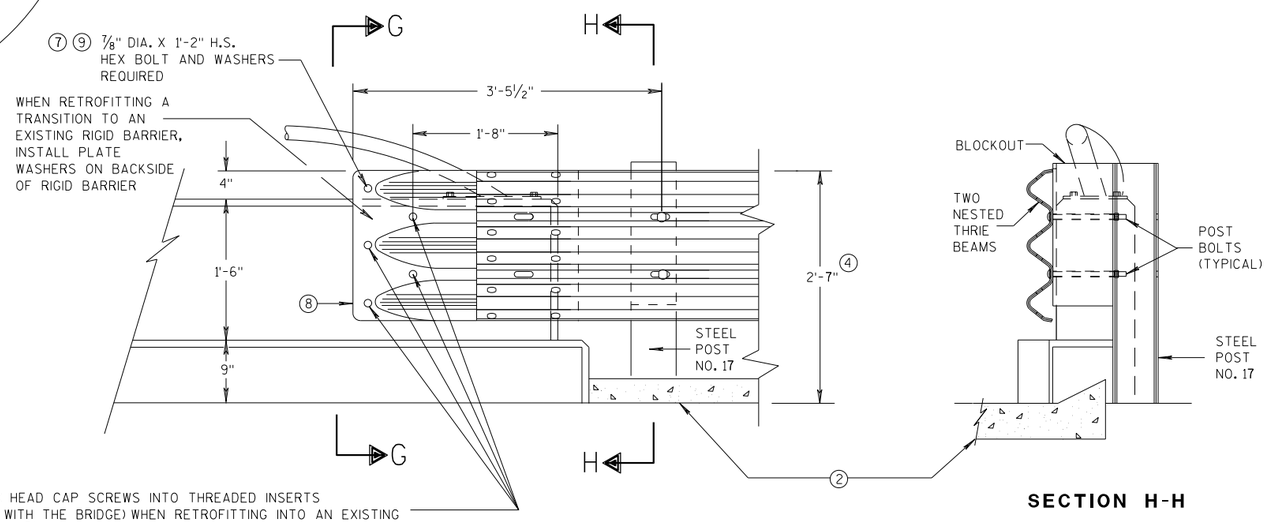
SECTION G-G



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS D UNIT SUPERVI

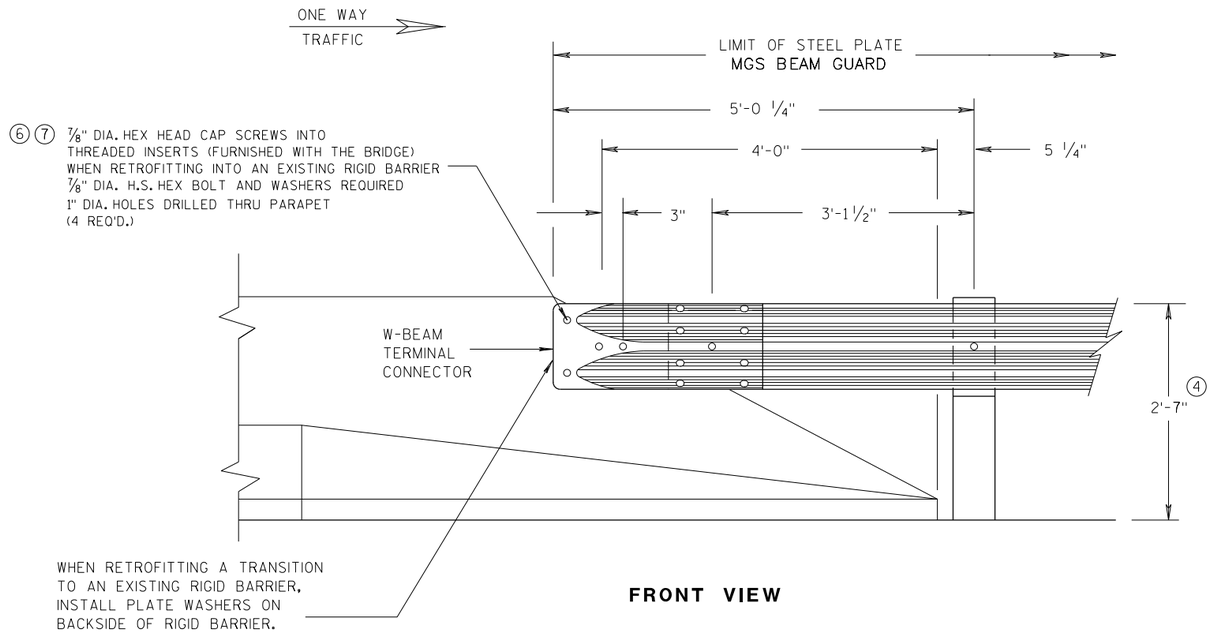
NT

6

S.D.D. 14 B 45-5e

6

S.D.D. 14 B 45-5e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

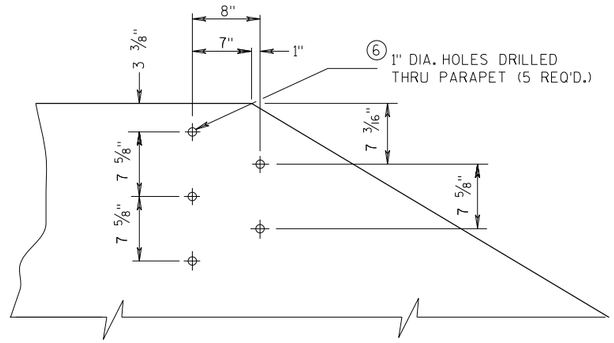
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

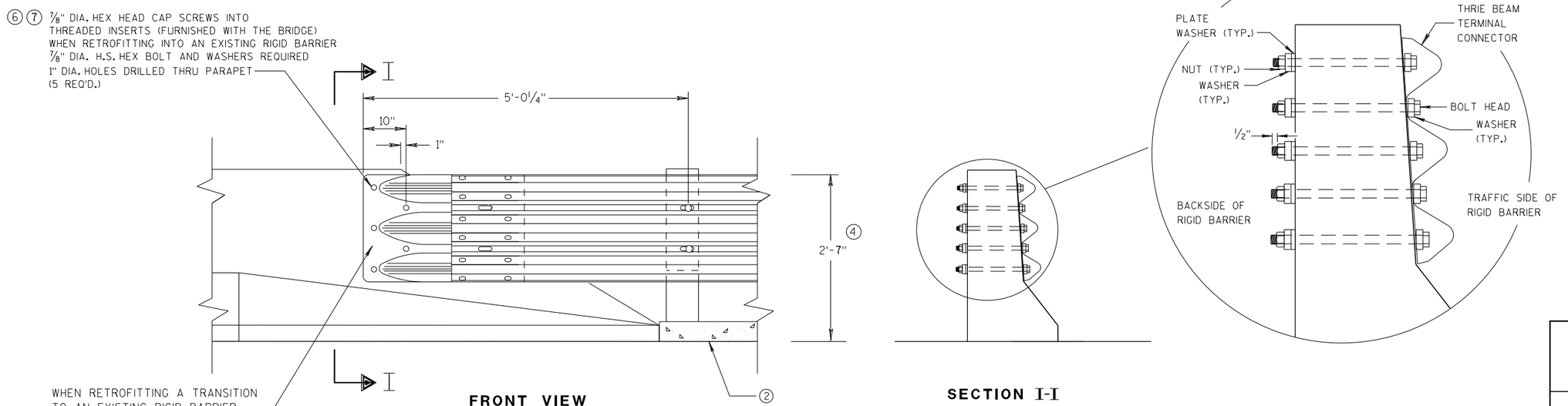
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW

SECTION I-I

THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

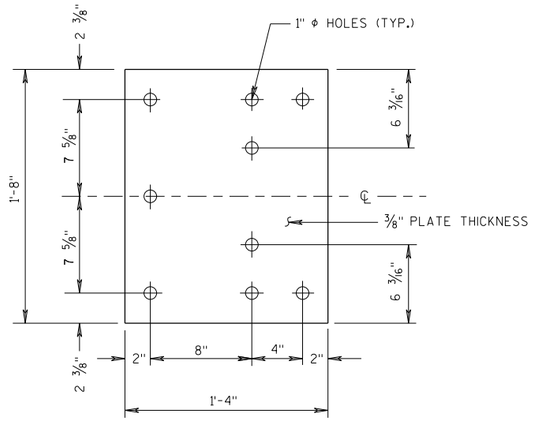
APPROVED
07/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS [illegible] UNIT SUPERVI[illegible]ENT
FHWA

6

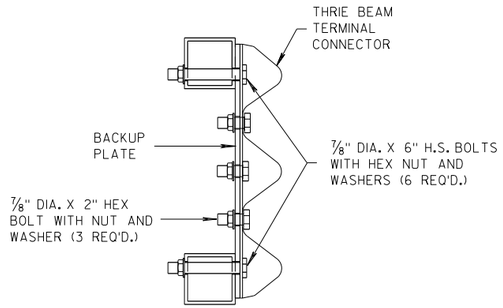
S.D.D. 14 B 45-5f

6

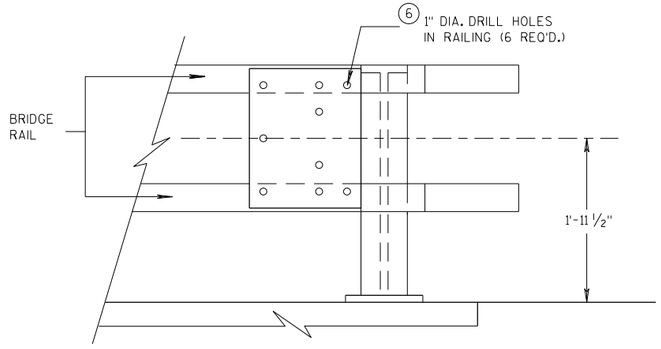
S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL



SECTION J-J

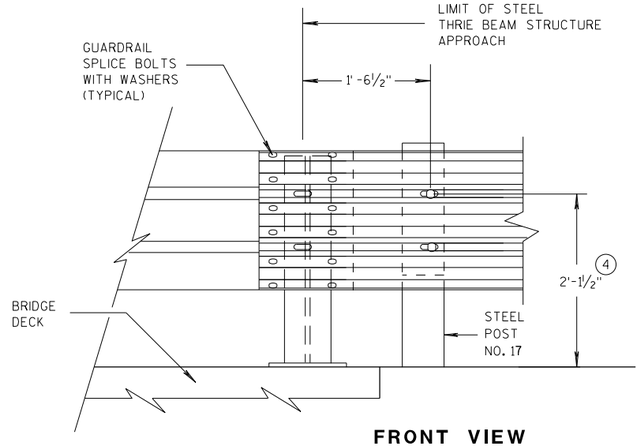


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

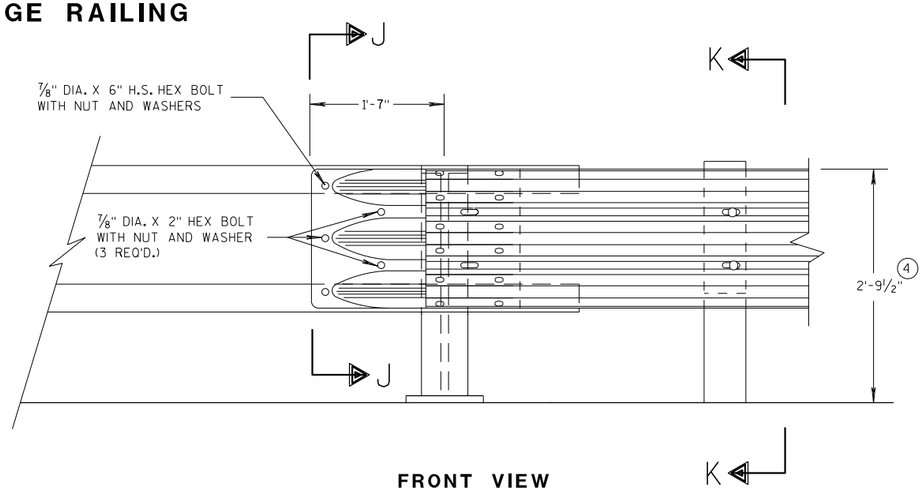
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

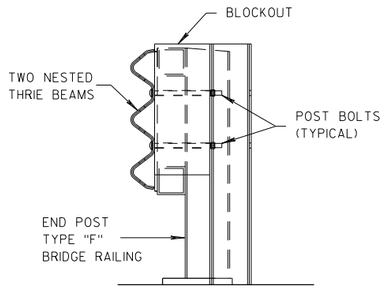


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

285

6

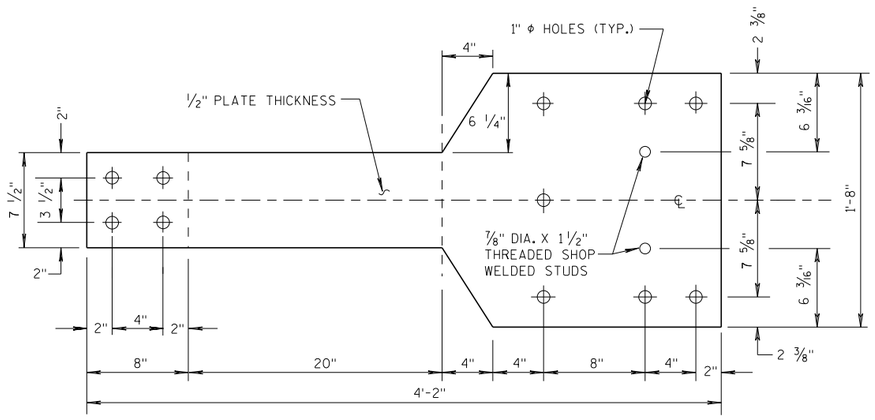
S.D.D. 14 B 45-5g

6

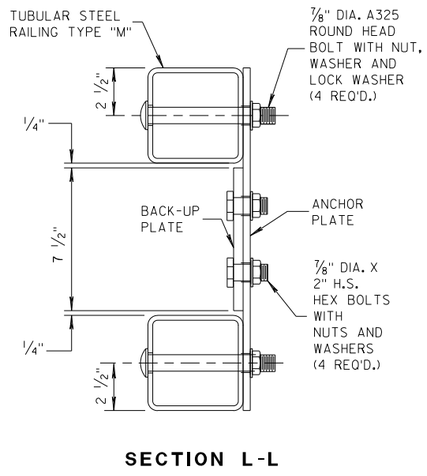
S.D.D. 14 B 45-5g

GENERAL NOTES

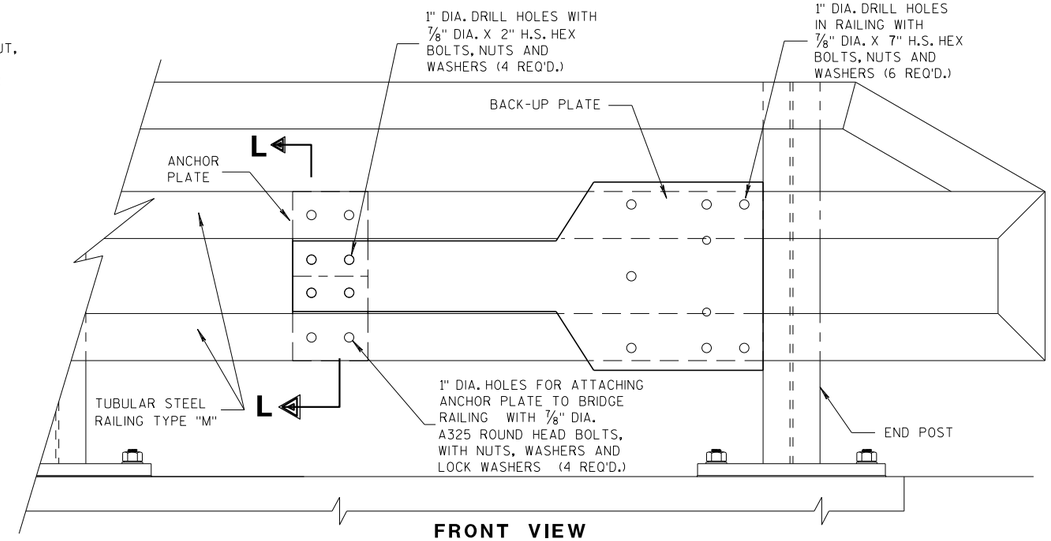
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



FRONT VIEW

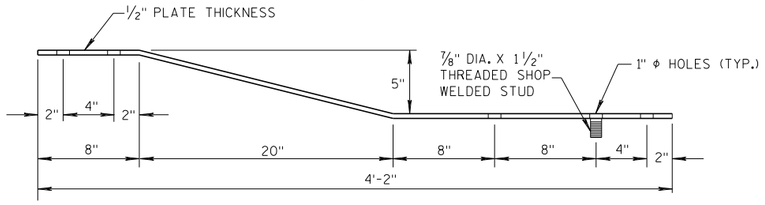


SECTION L-L



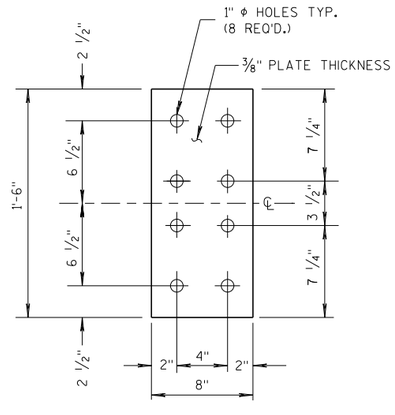
FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



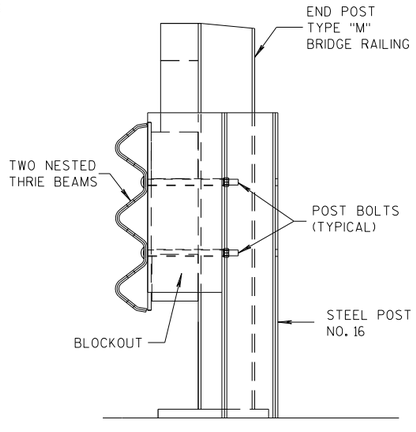
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

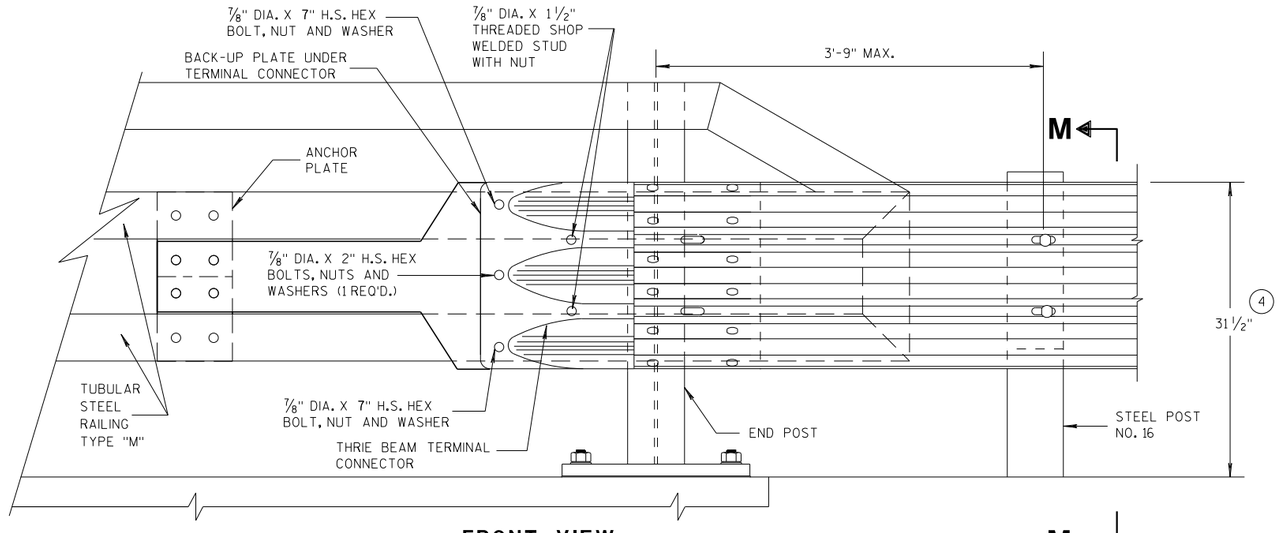


FRONT VIEW

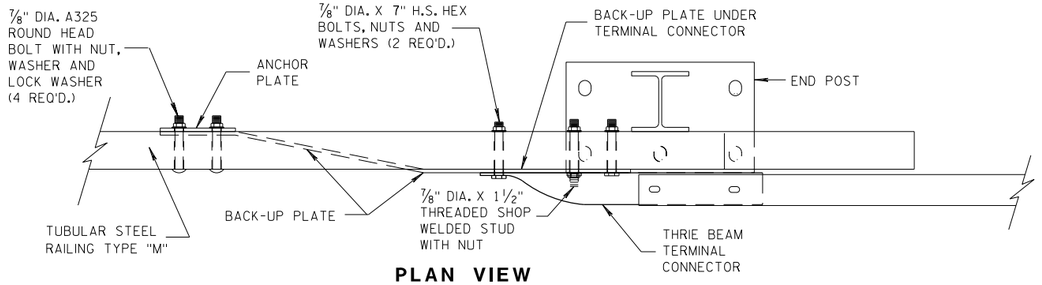
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

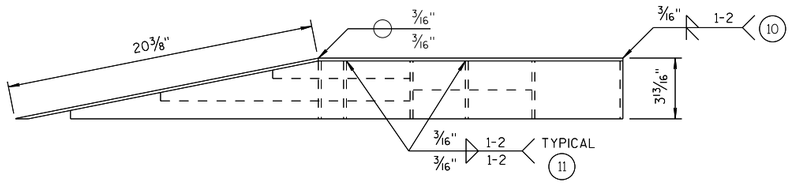
APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

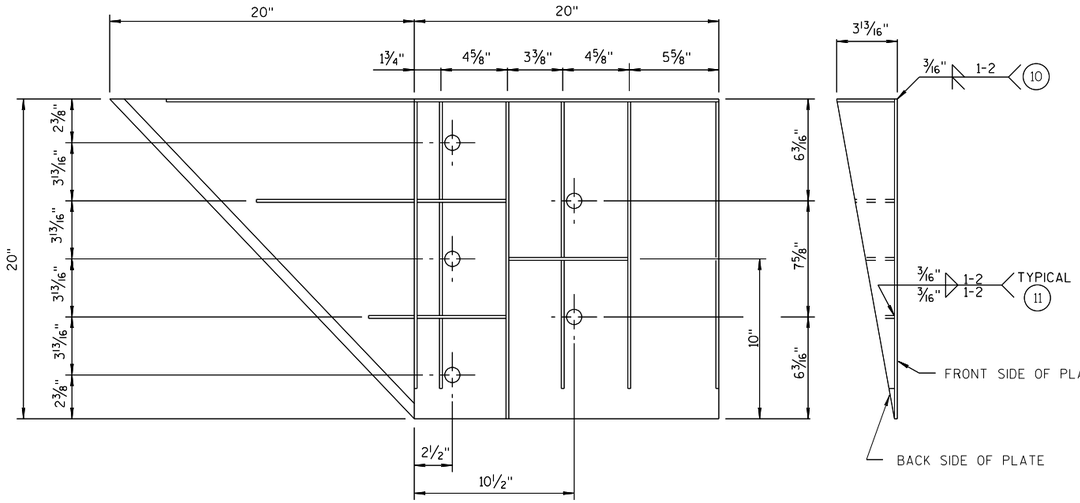
6

S.D.D. 14 B 45-5h

6

S.D.D. 14 B 45-5h





WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

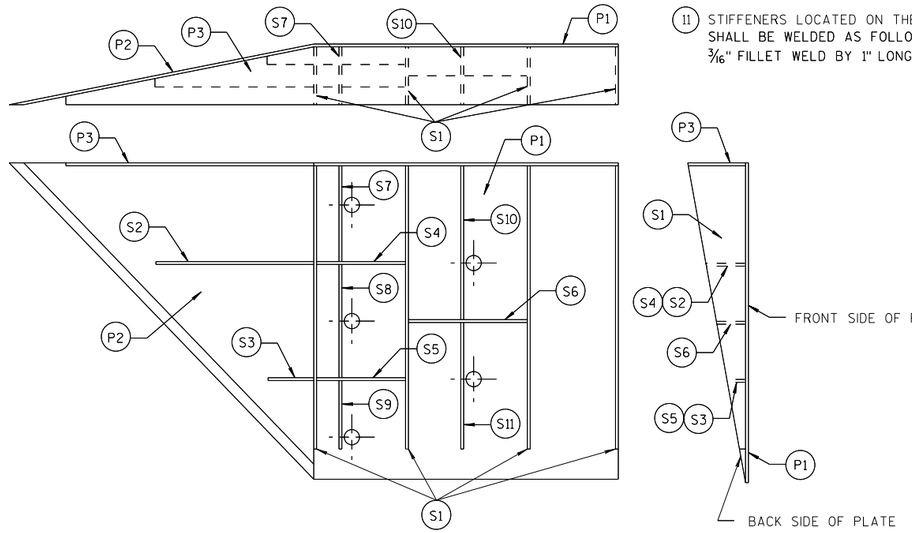


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

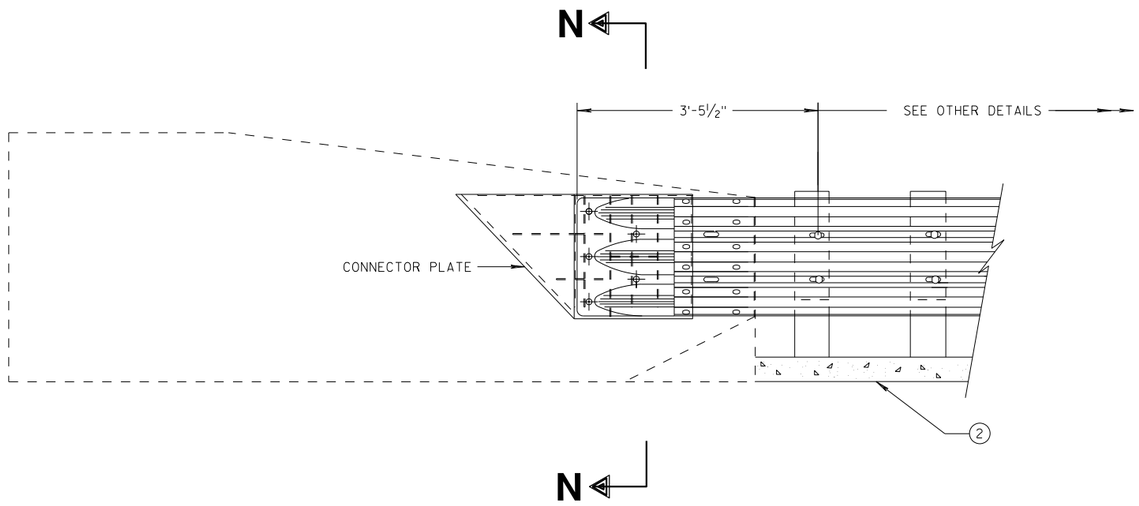
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

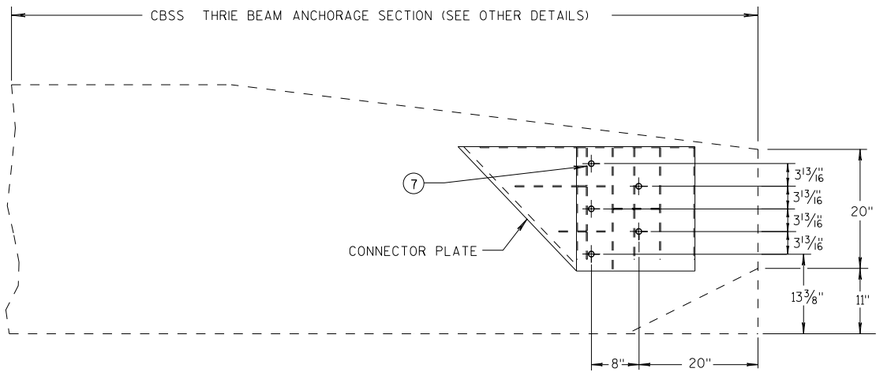
APPROVED
7/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS I
UNIT SUPERVI

6
S.D.D. 14 B 45-5i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



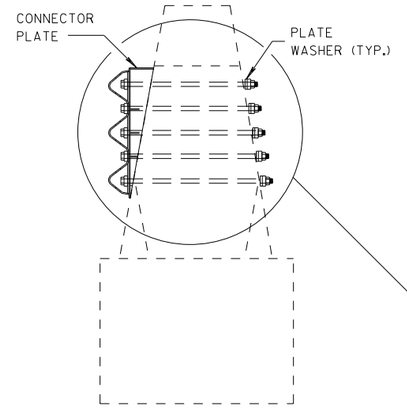
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

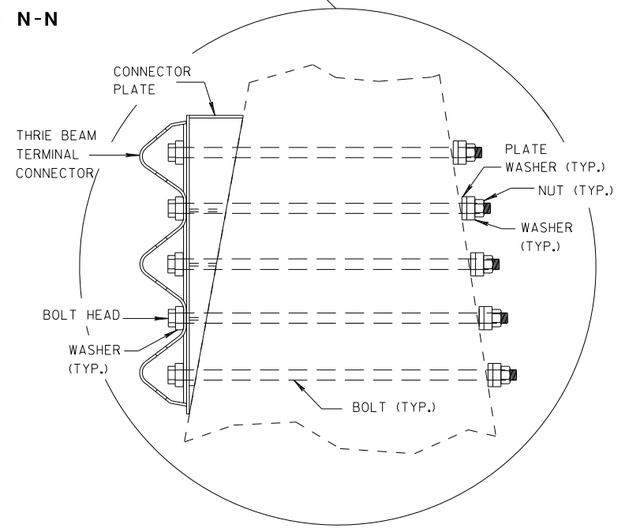
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

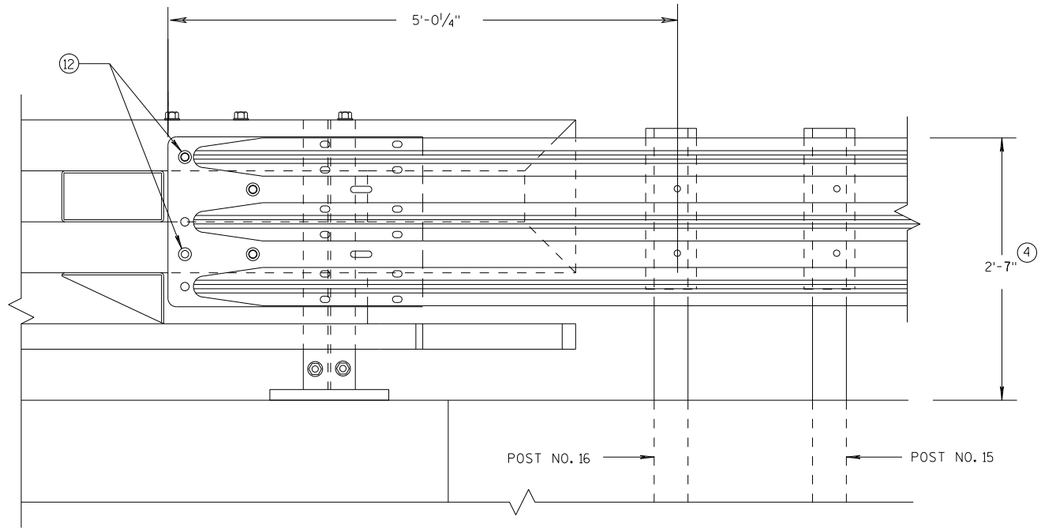
/S/ Rodney Taylor
ROADWAY STANDARDS DI UNIT SUPERVIS

6

S.D.D. 14 B 45-5j

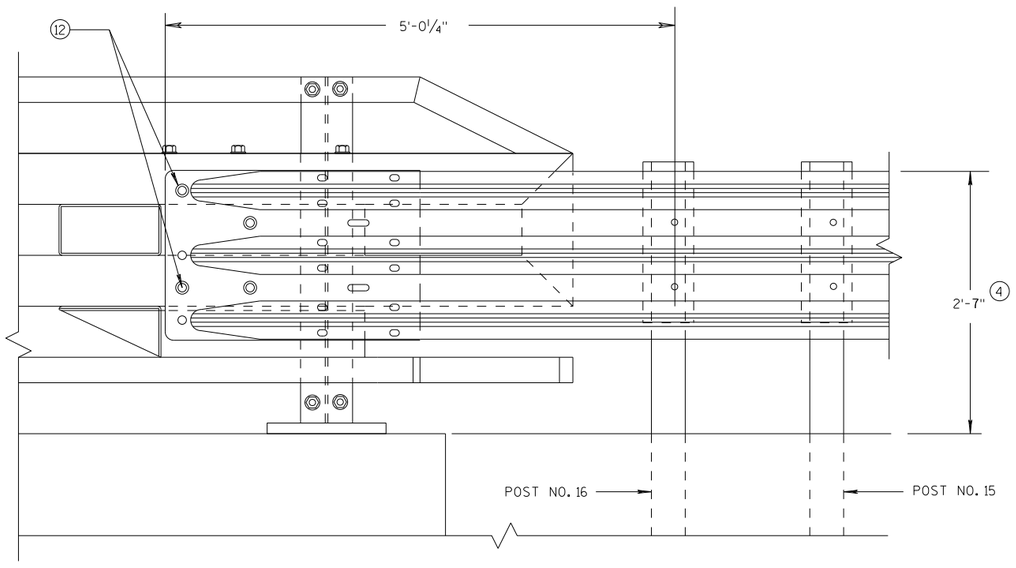
6

S.D.D. 14 B 45-5j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

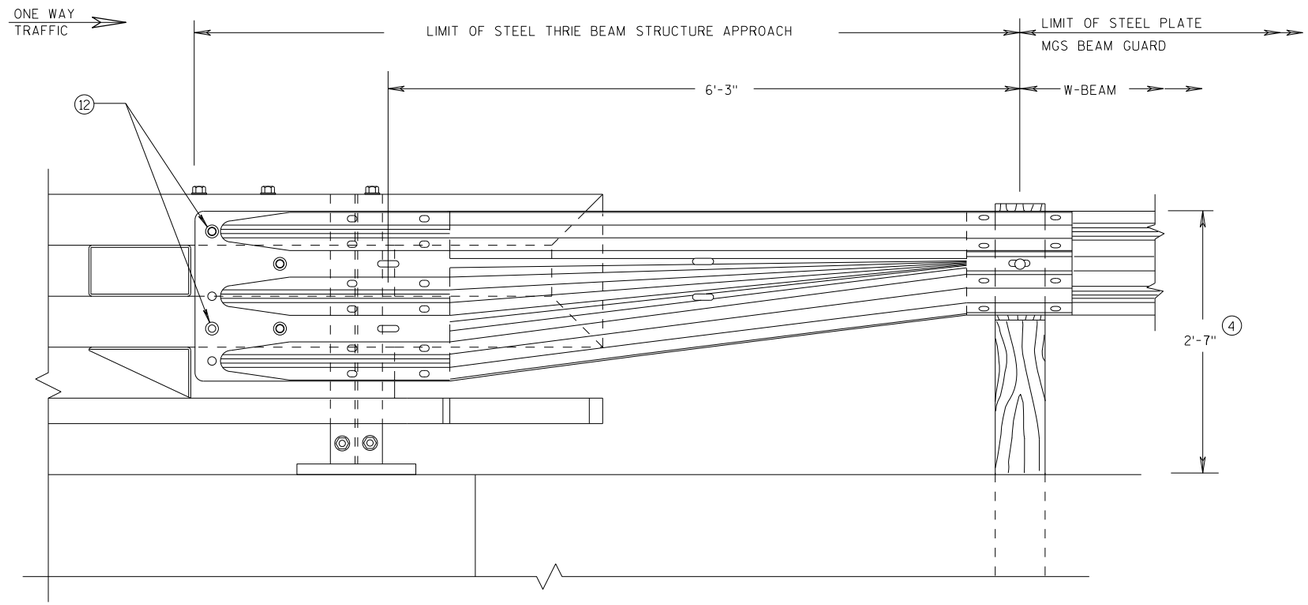
/S/ Rodney Taylor
ROADWAY STANDARDS D 289 NT
UNIT SUPERVIS

6

S.D.D. 14 B 45-5k

6

S.D.D. 14 B 45-5k



FRONT VIEW

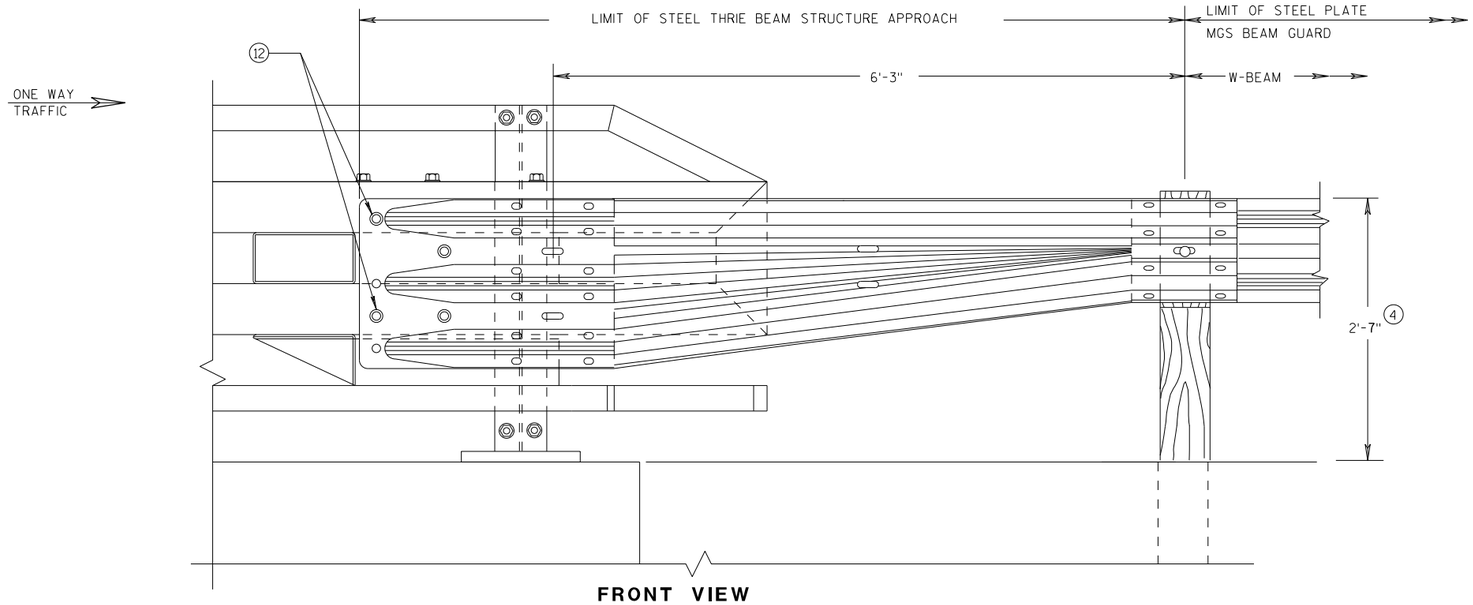
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS D
UNIT SUPERVIS

290

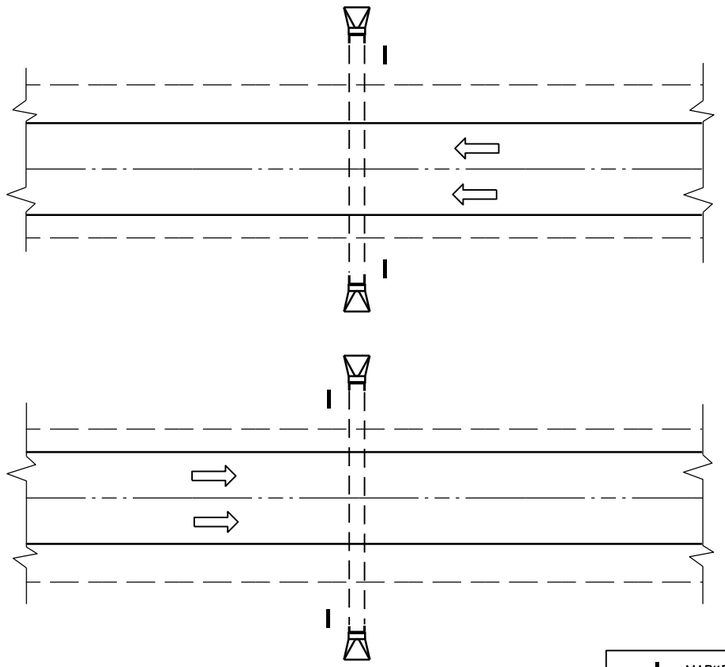
NT

6

S.D.D. 14 B 45-5L

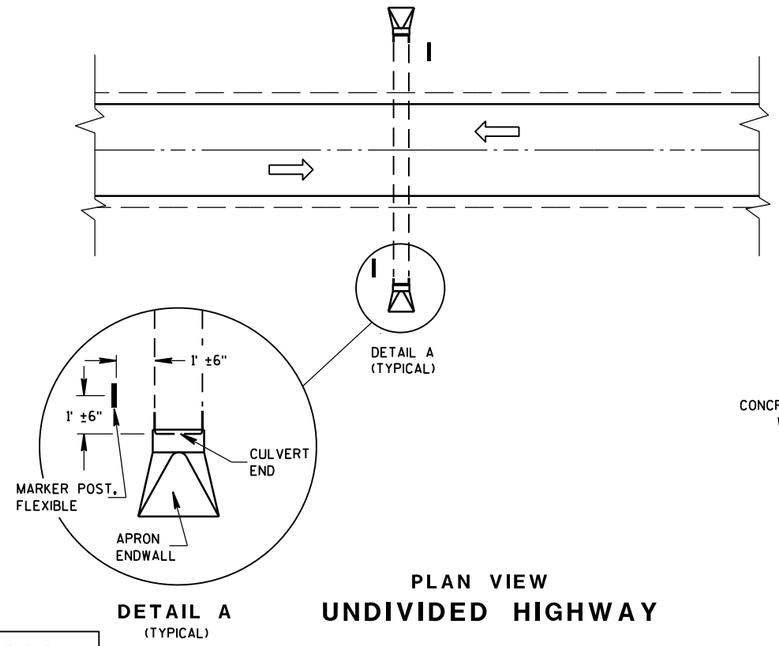
6

S.D.D. 14 B 45-5L



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

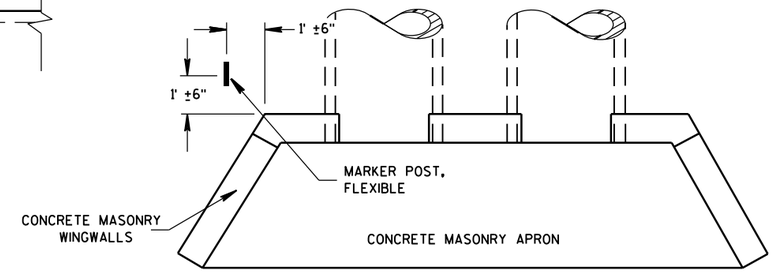
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

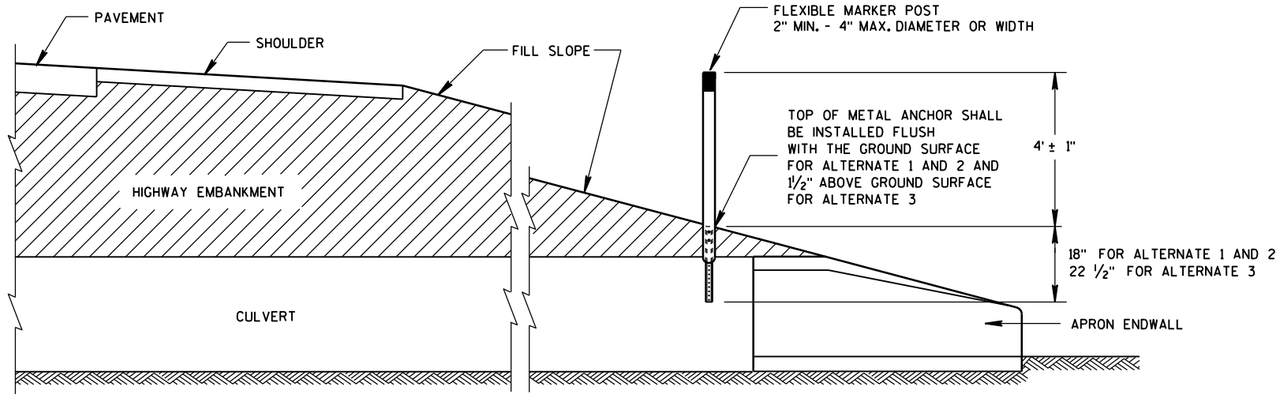
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

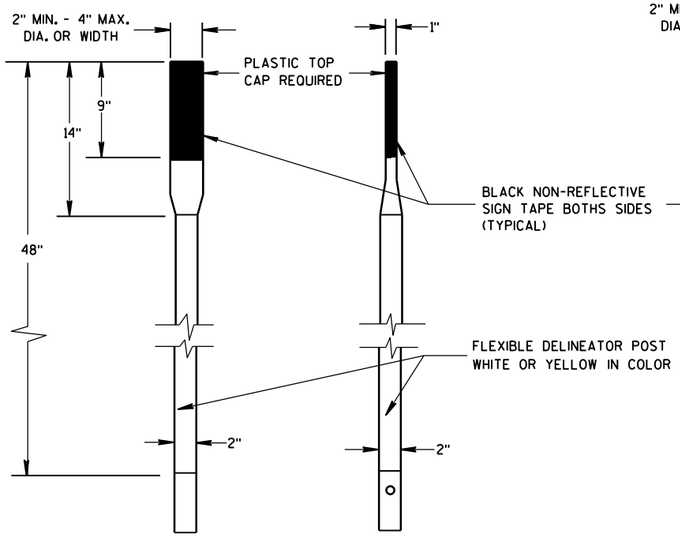
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

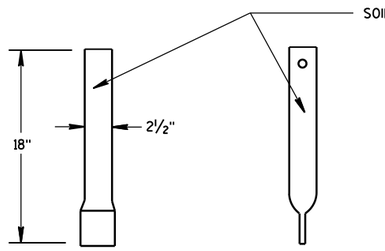
6

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

6

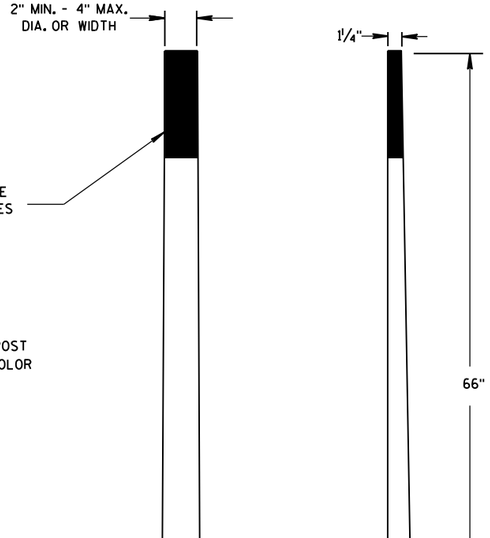
S.D.D. 15 A 3-2a





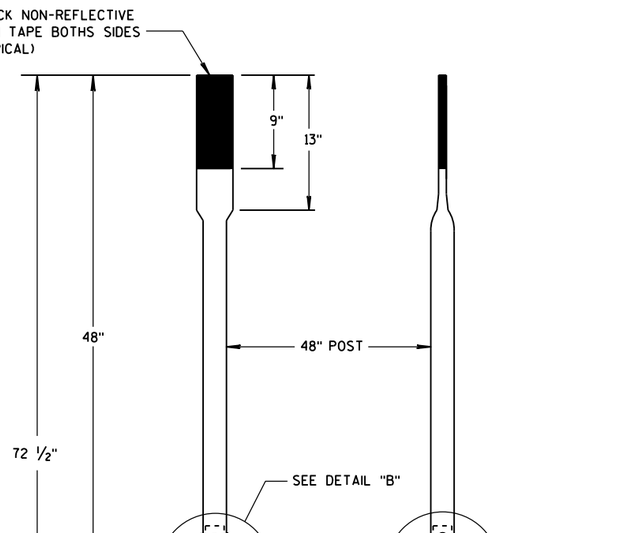
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

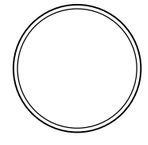
ALTERNATE 2



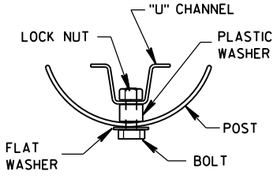
FRONT VIEW SIDE VIEW

ALTERNATE 3

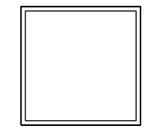
FLEXIBLE MARKER POSTS



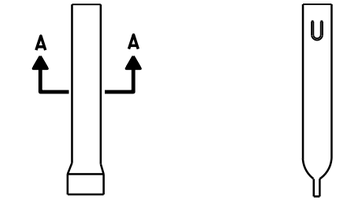
SECTION A-A



SECTION B-B

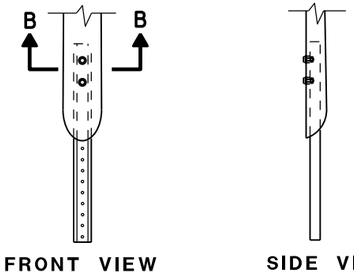


SECTION C-C



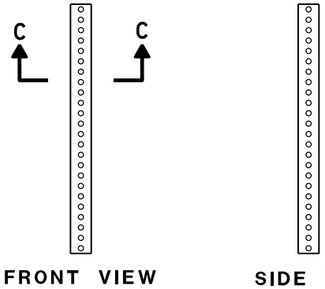
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

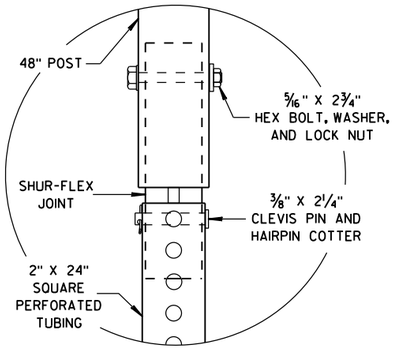
ALTERNATE 2



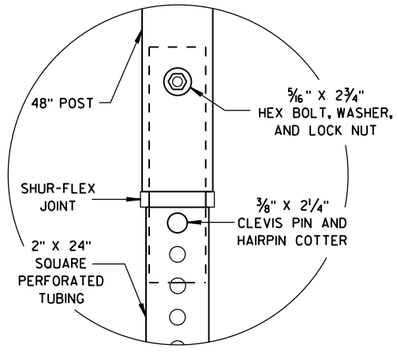
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



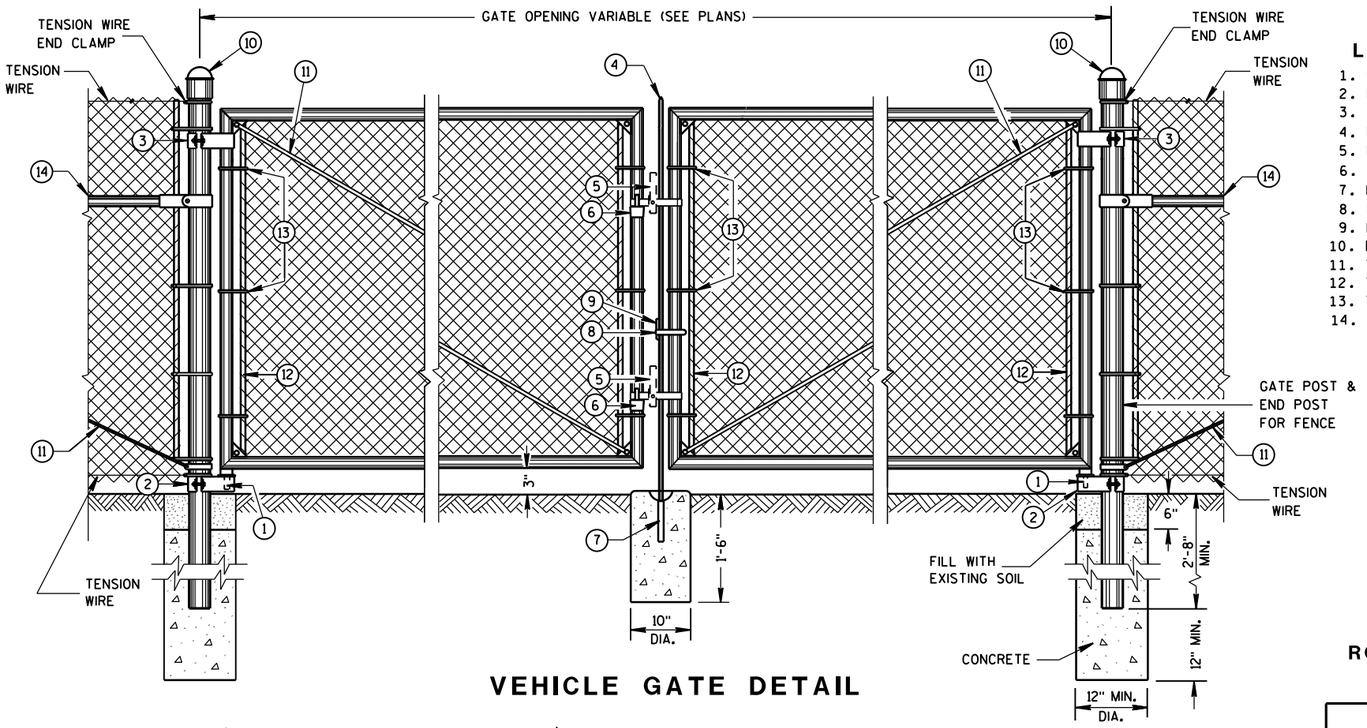
DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

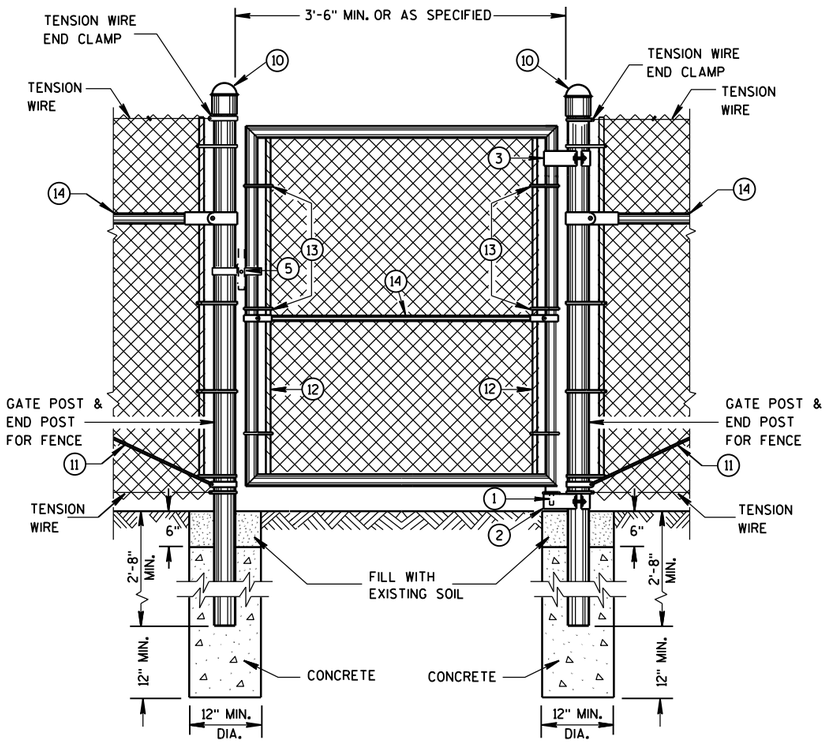
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6
S.D.D. 15 A 3-2b



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

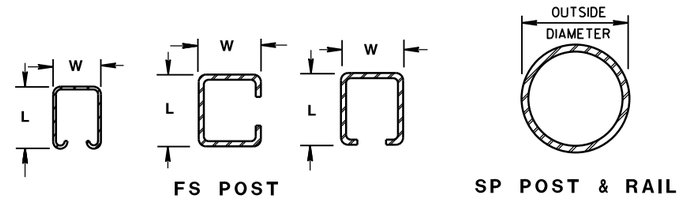
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



FS POST — SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

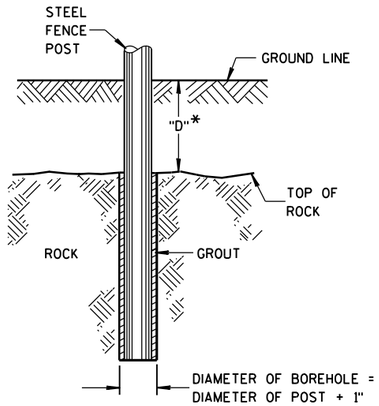
** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

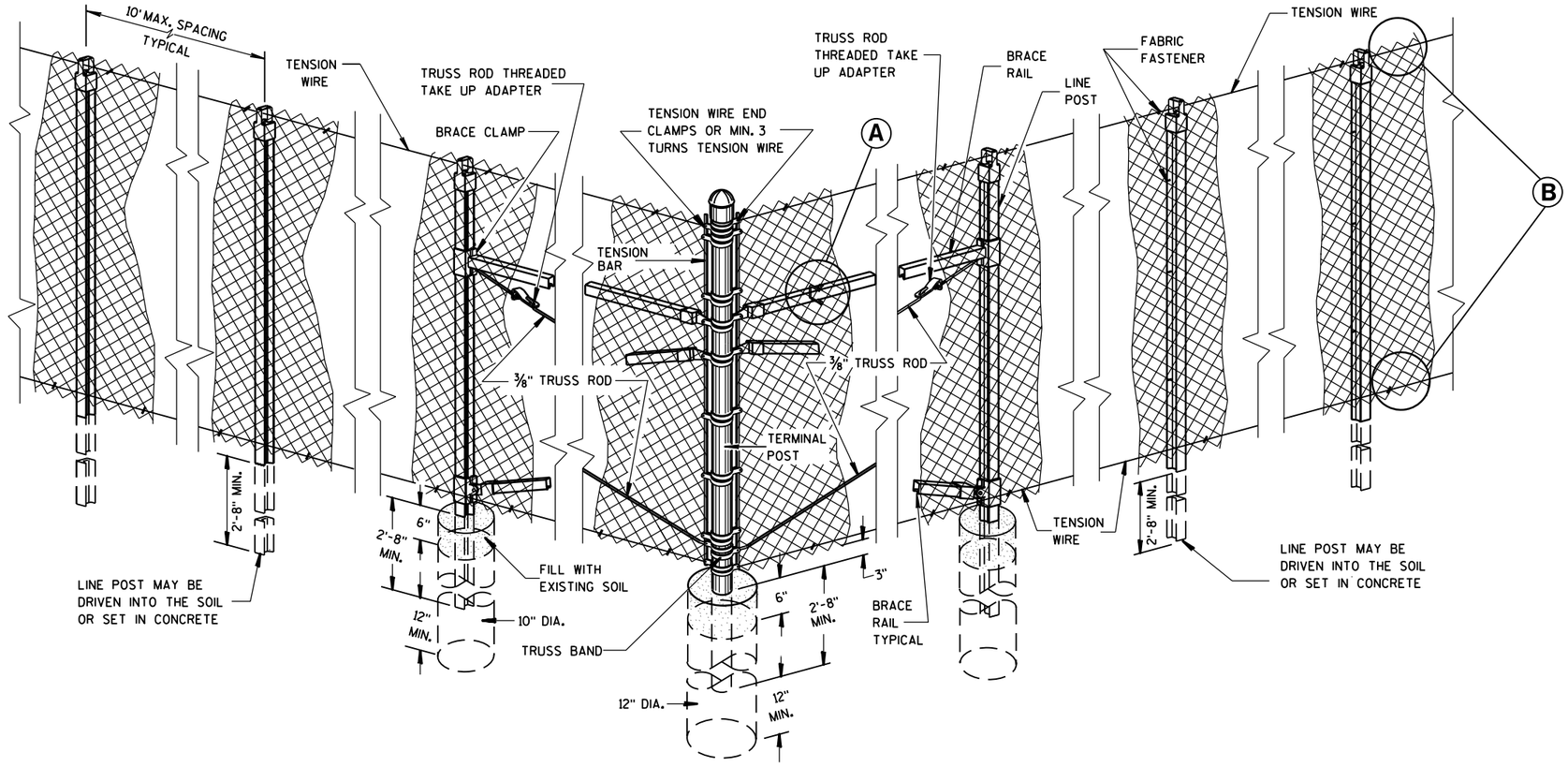
6

S.D.D. 15 B 3-15a

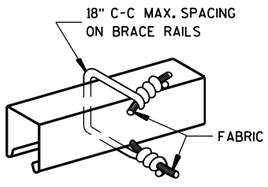


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



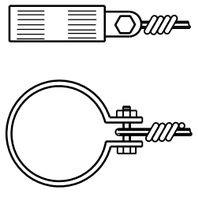
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



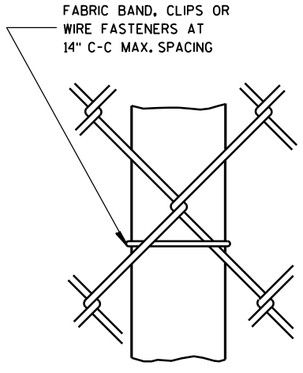
BRACE RAIL

FABRIC FASTENER

Ⓐ



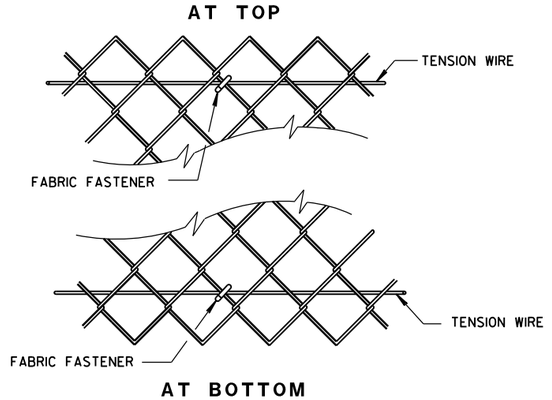
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

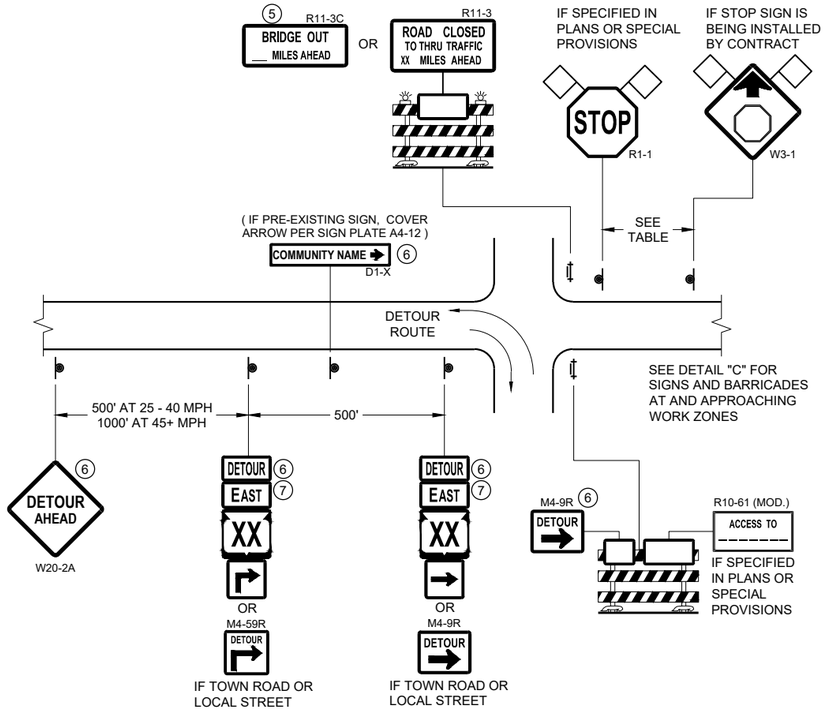
APPROVED
FEB. 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 15 B 3-15b

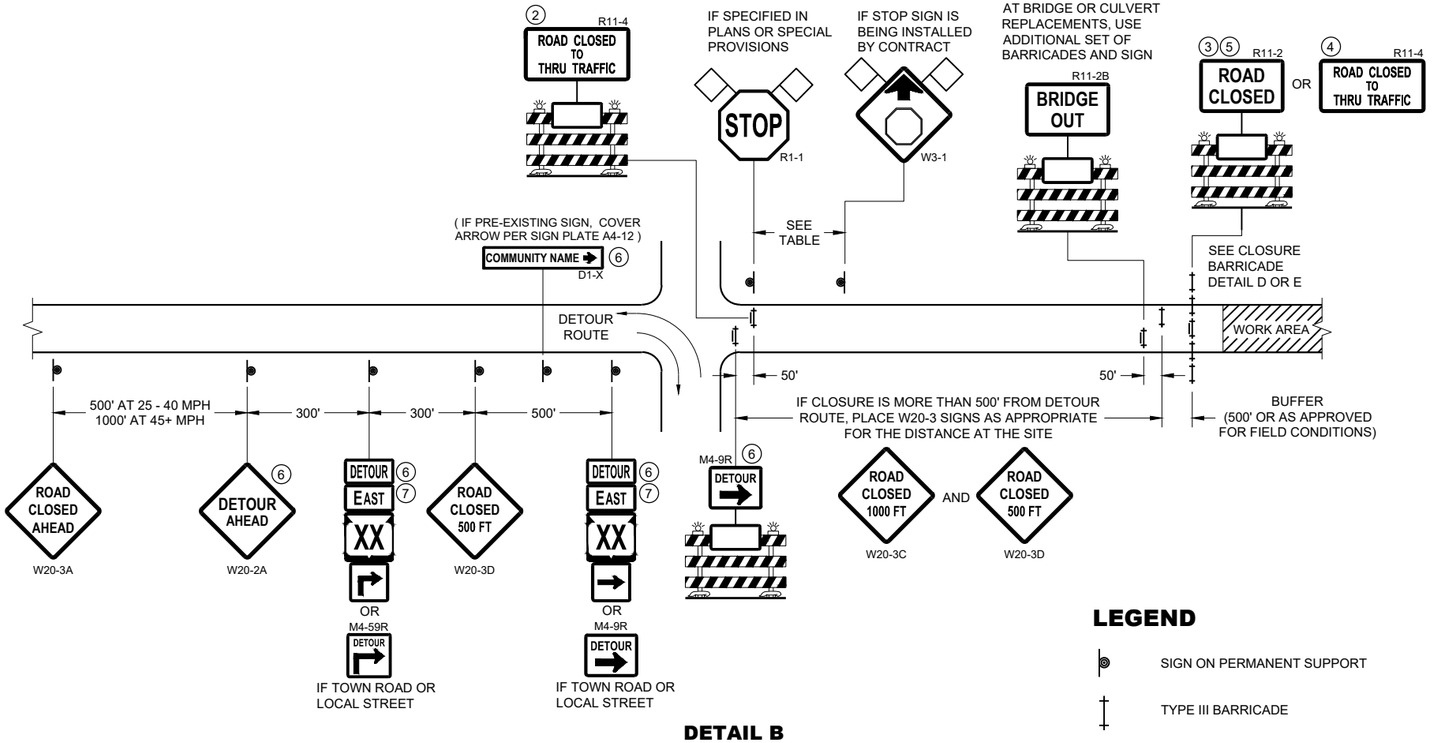
6

S.D.D. 15 B 3-15b



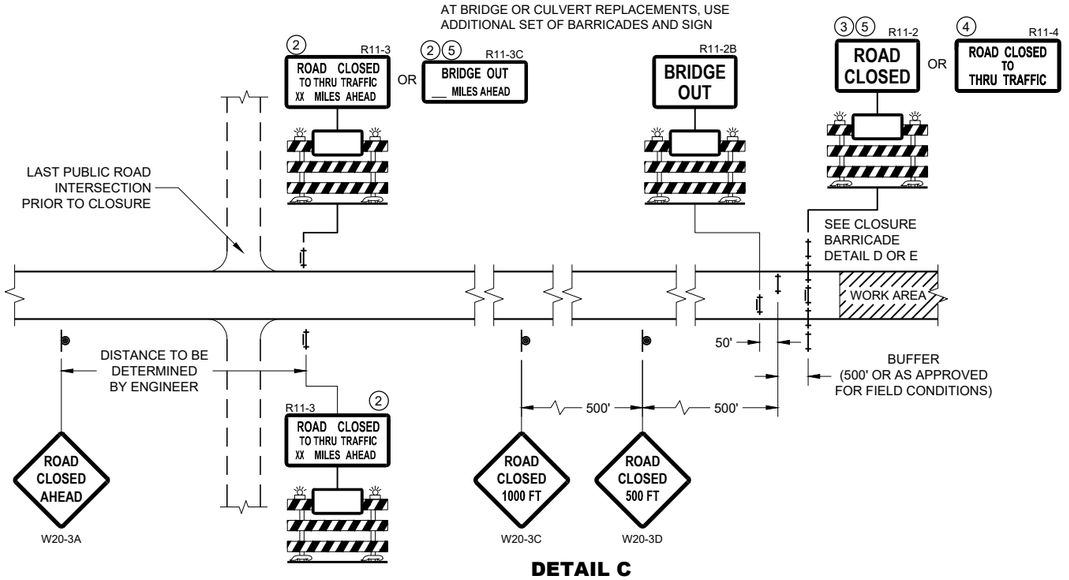
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

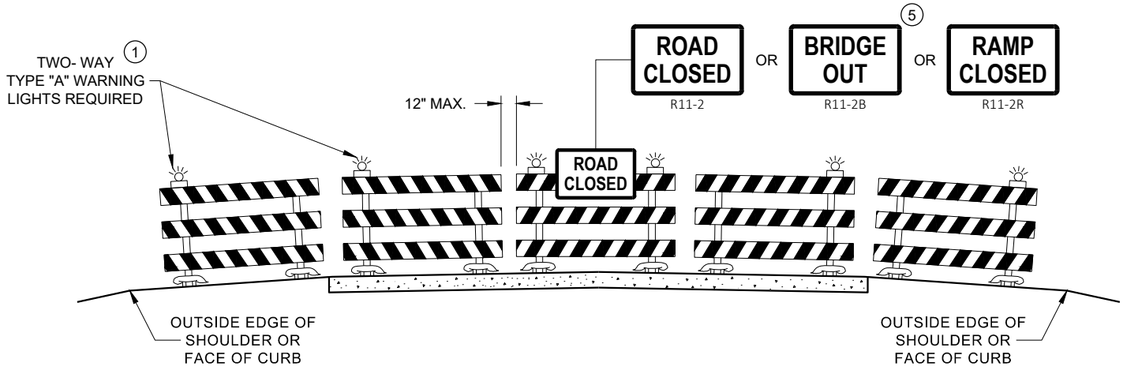
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

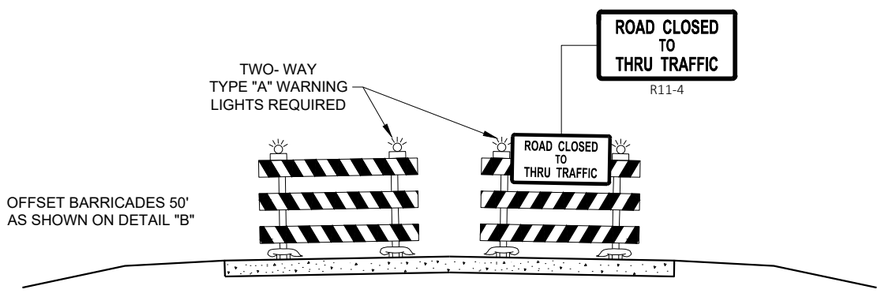
6

SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 08b

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

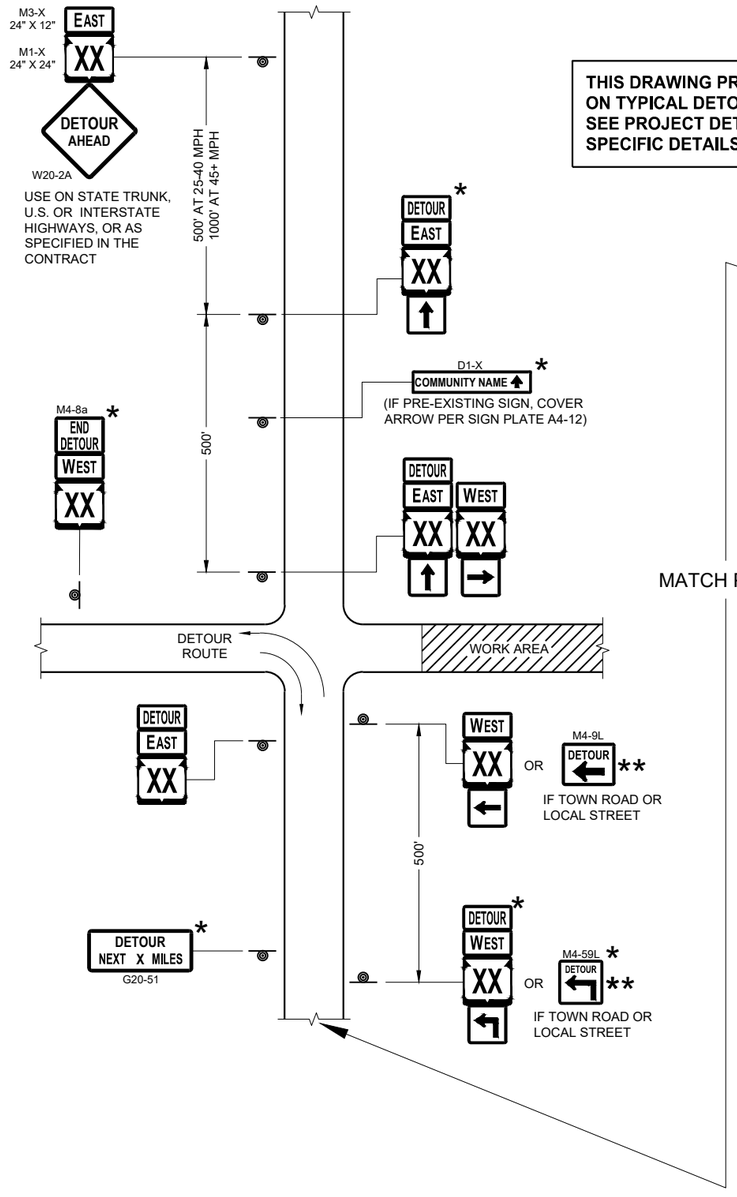
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

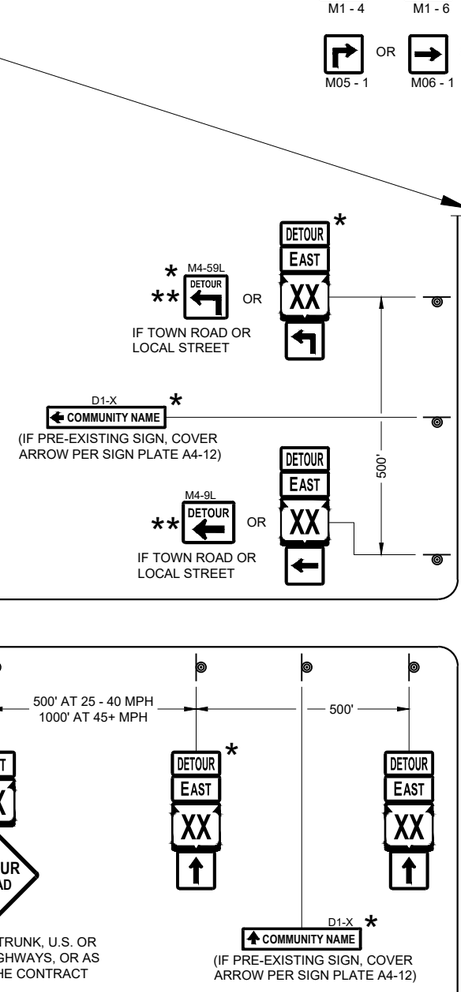
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

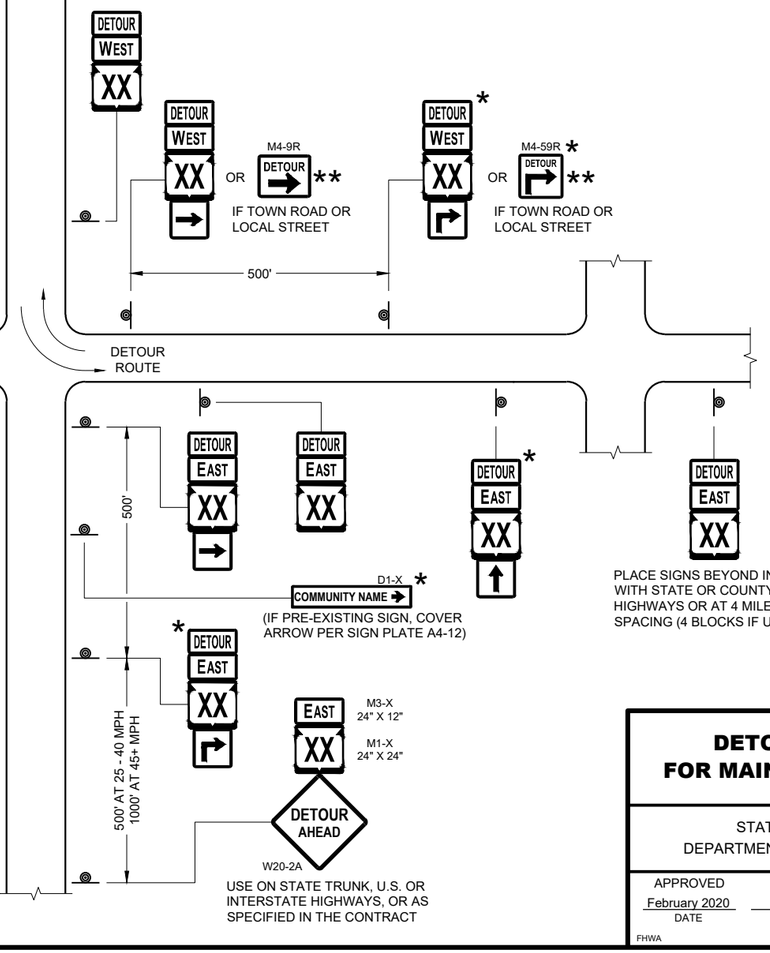
* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



MATCH POINT





SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

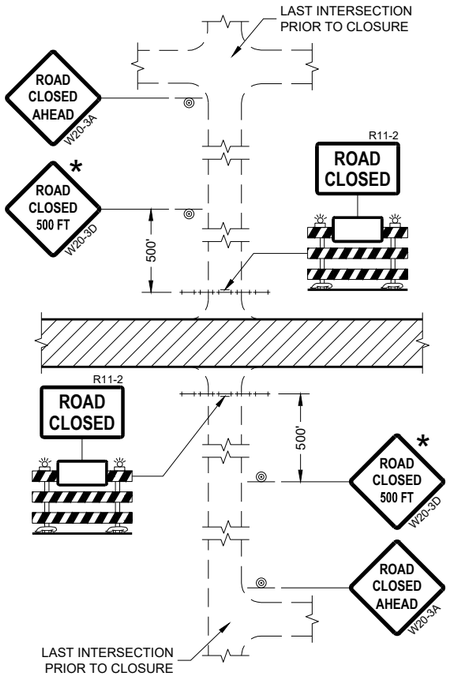
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

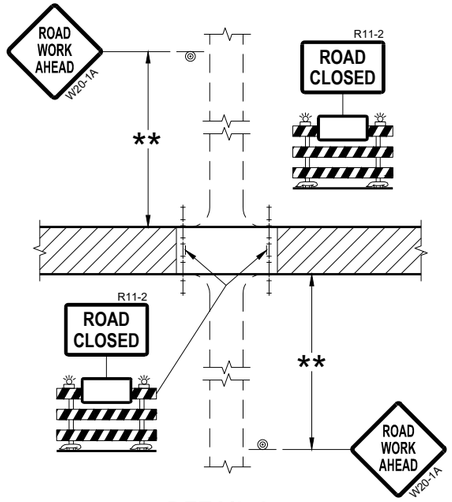
SDD 15C02 - 08c

SDD 15C02 - 08c

6



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

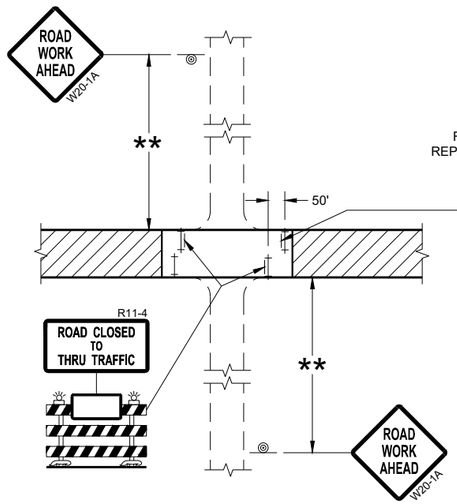
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

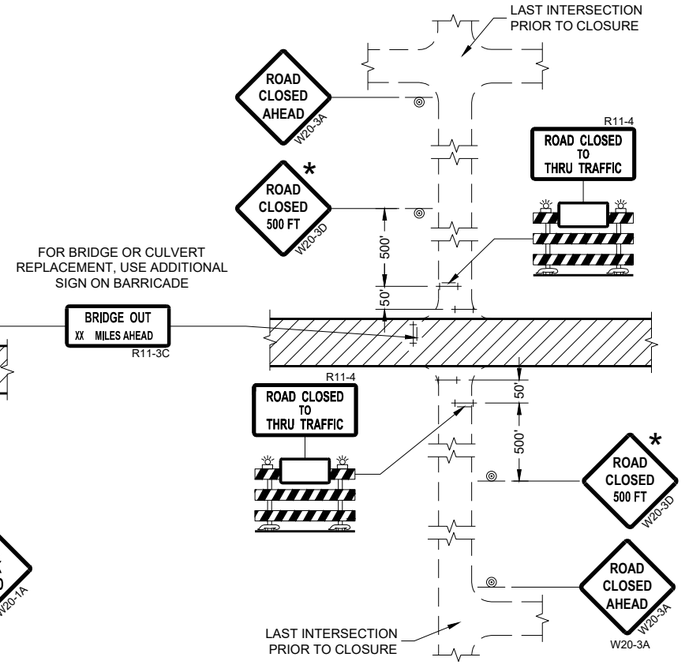
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C03 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

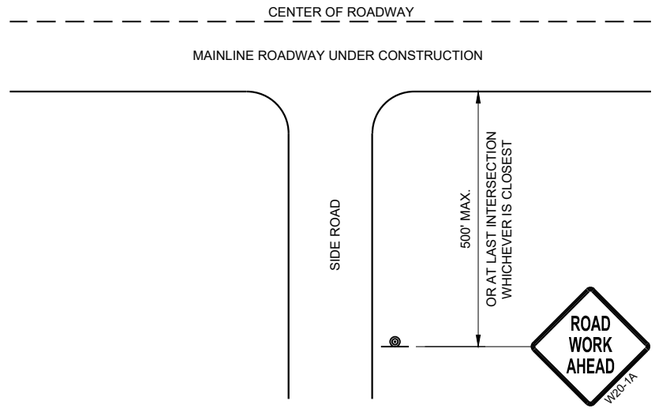
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

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



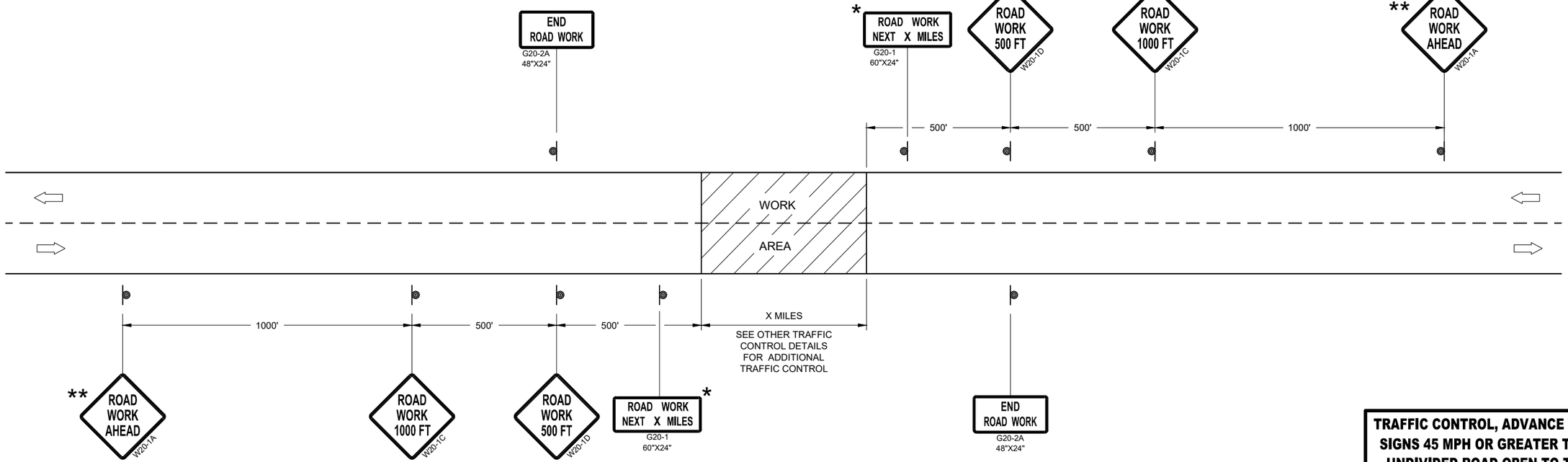
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C04 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

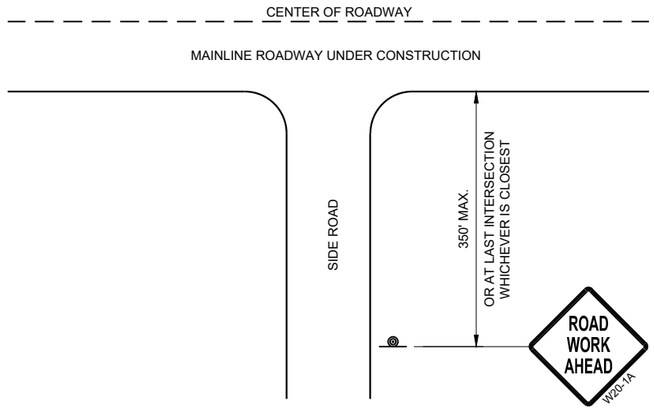
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



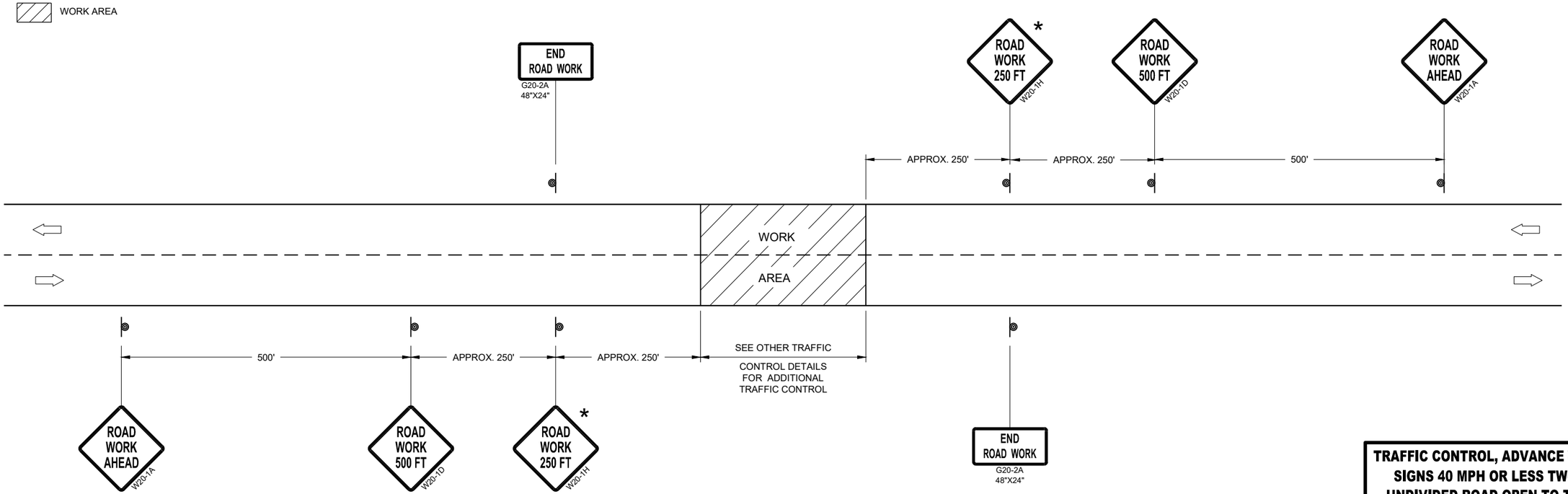
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

300

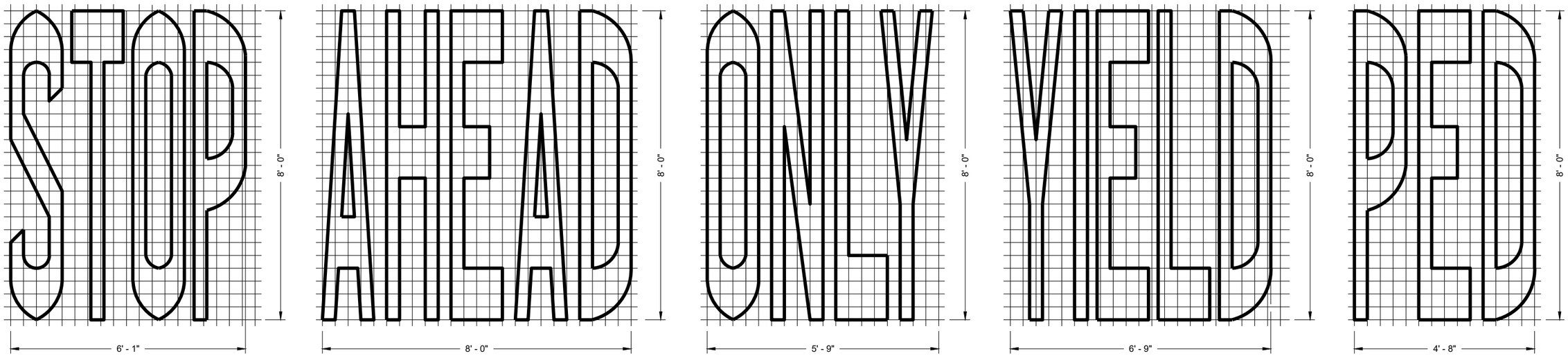
FHWA

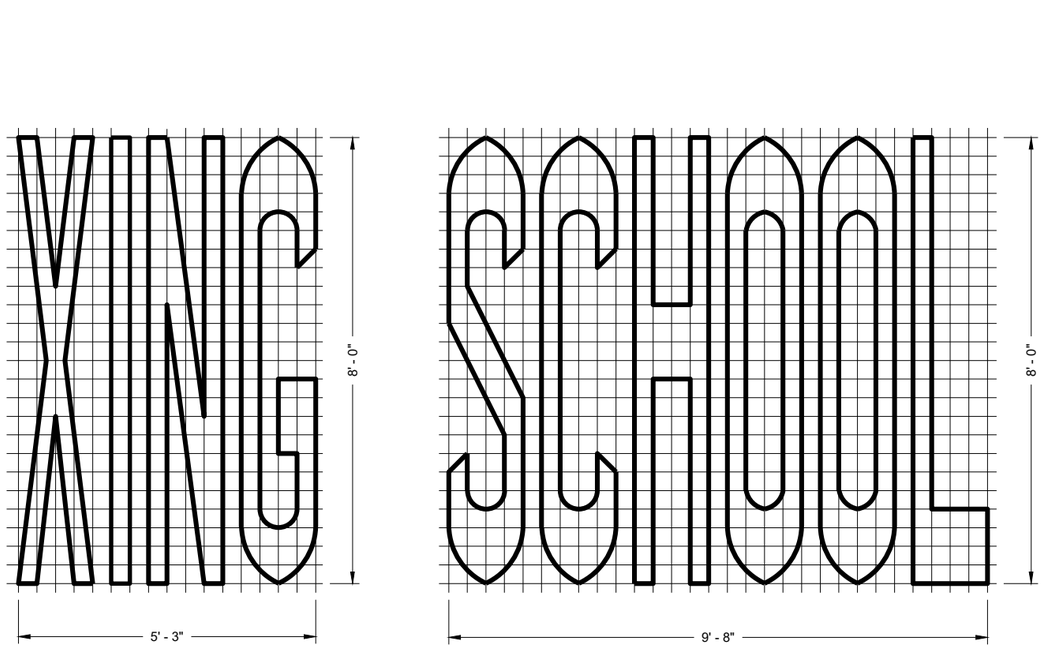
6

SDD 15C05 - 05

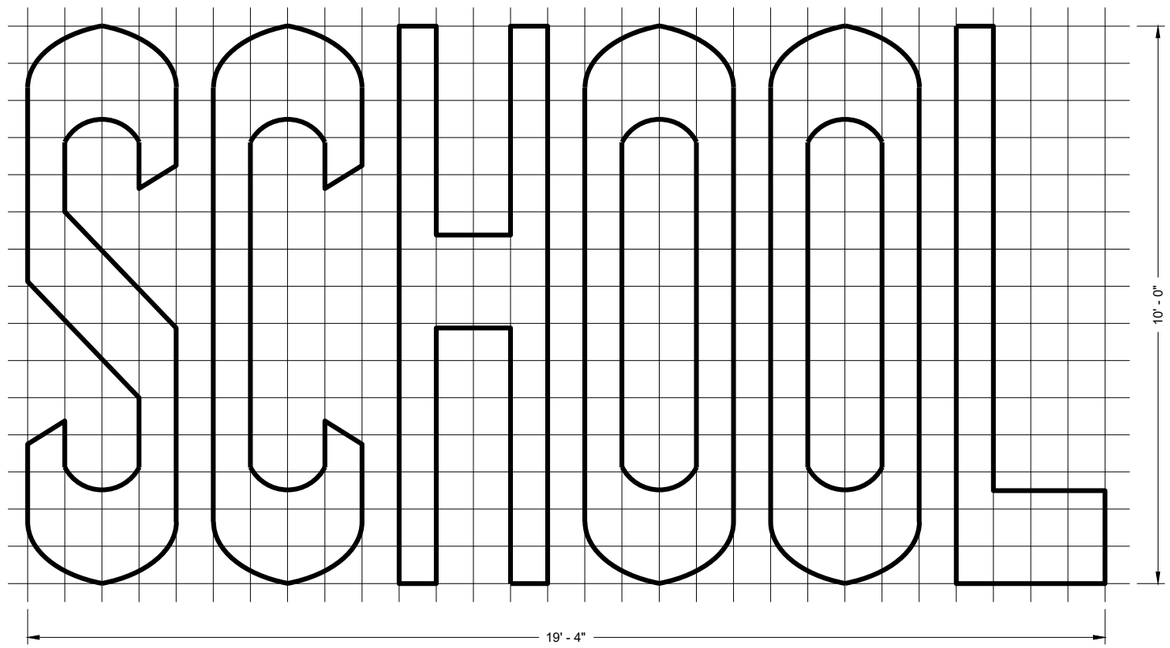
6

SDD 15C05 - 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

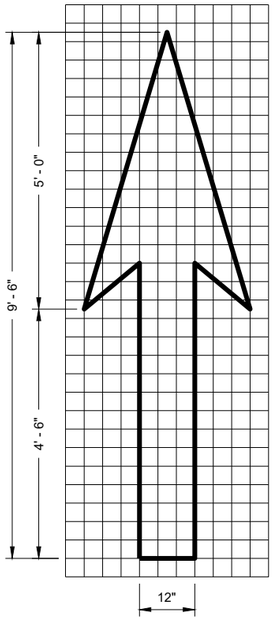
6

SDD 15C07 - 15b

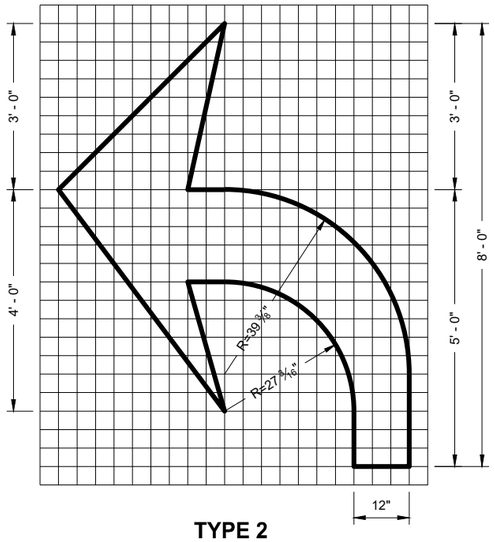
SDD 15C07 - 15b

GENERAL NOTES

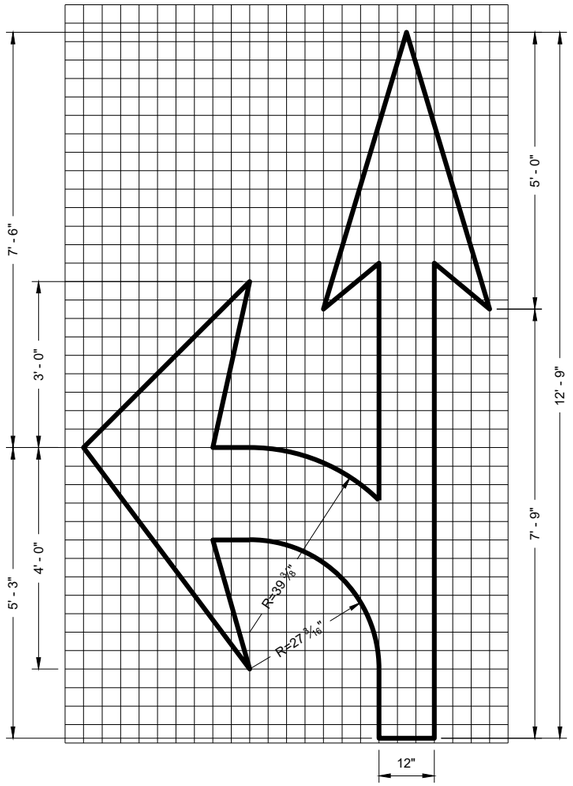
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



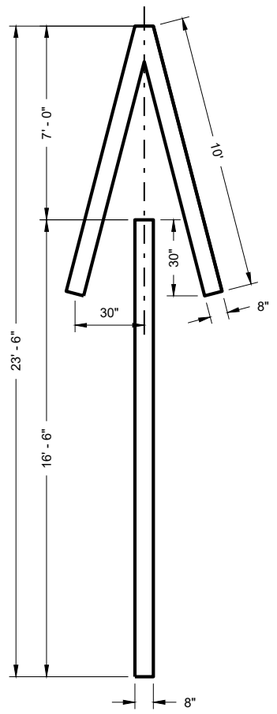
TYPE 1



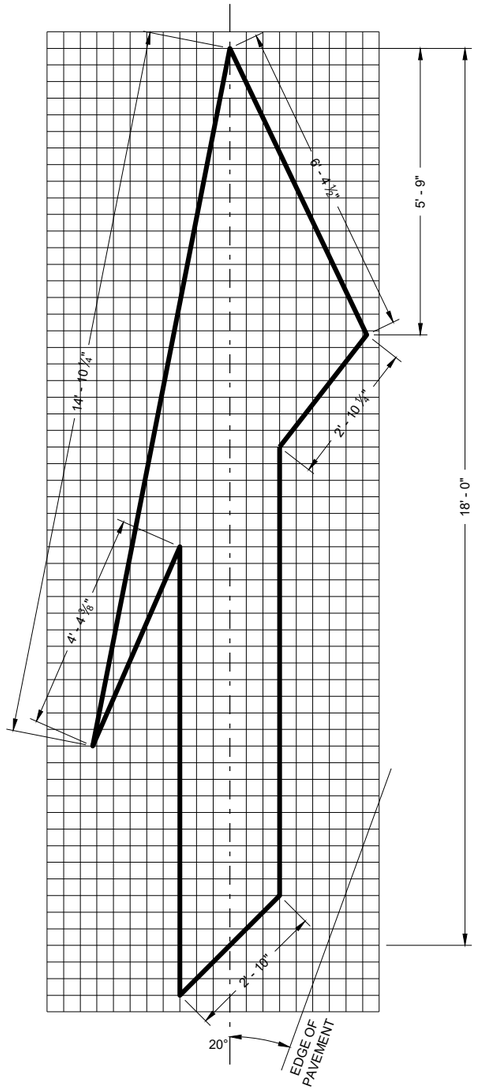
TYPE 2



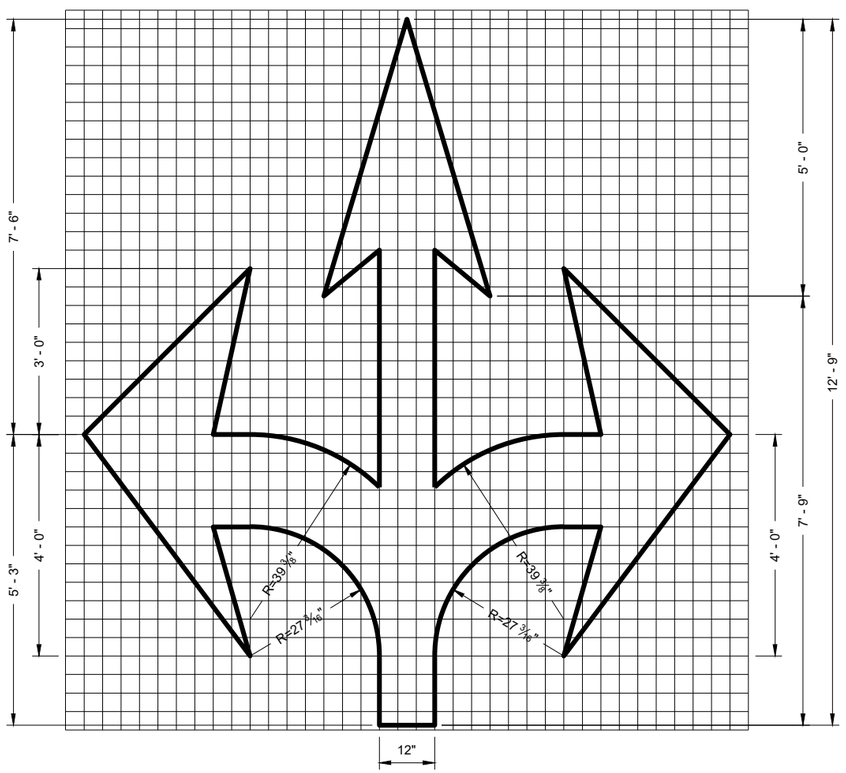
TYPE 3



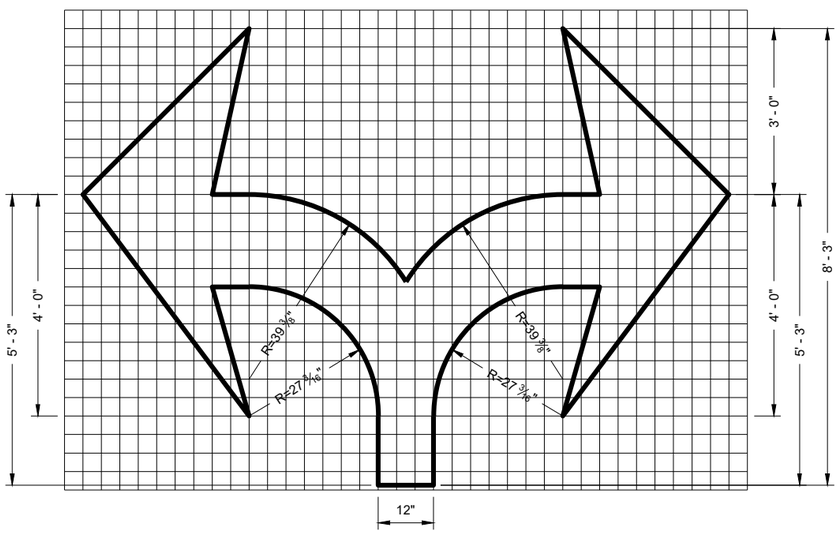
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C07 - 15c

6

SDD 15C07 - 15c

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

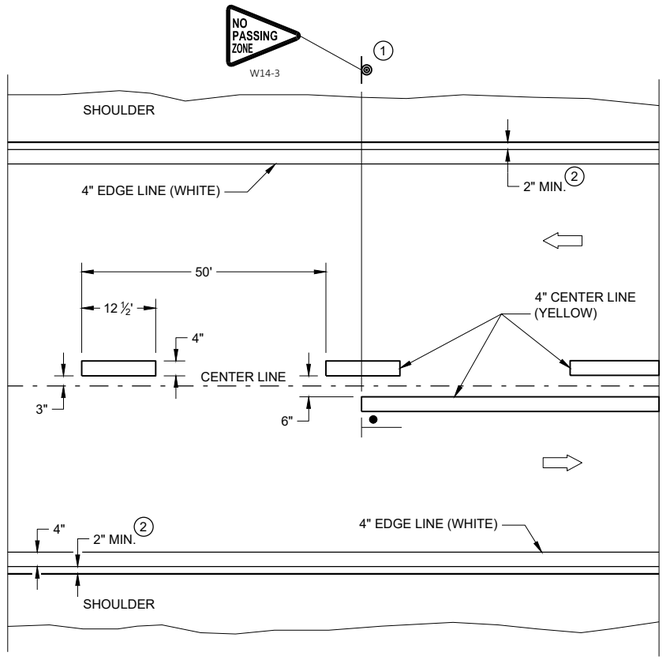
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

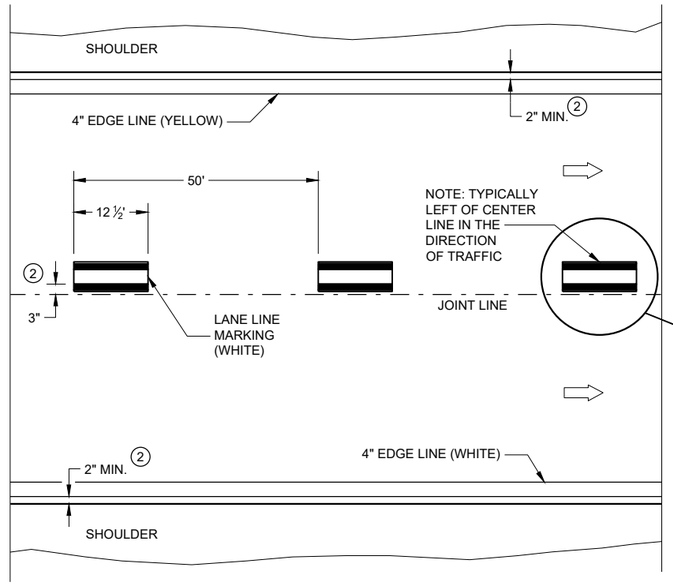
"T" MARKING

SIGN ON PERMANENT SUPPORT

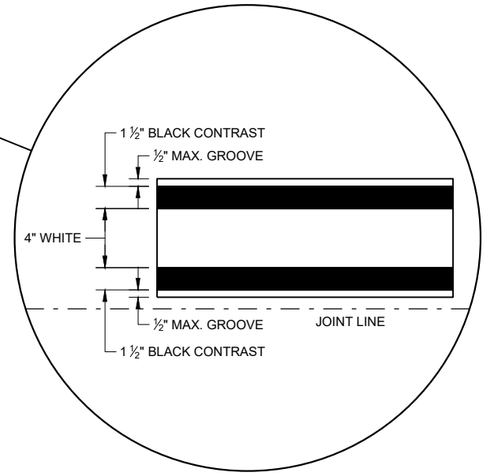
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

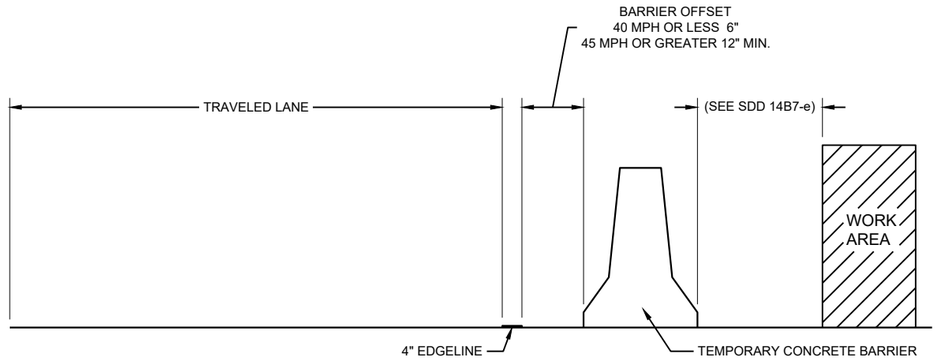
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

FHWA

SDD 15C08 - 22a

SDD 15C08 - 22a



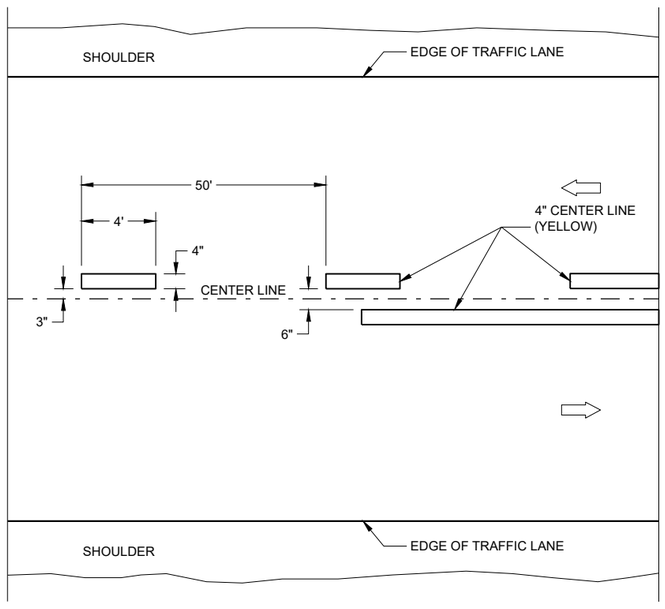
TEMPORARY BARRIER OFFSET FROM EDGELINE

GENERAL NOTES

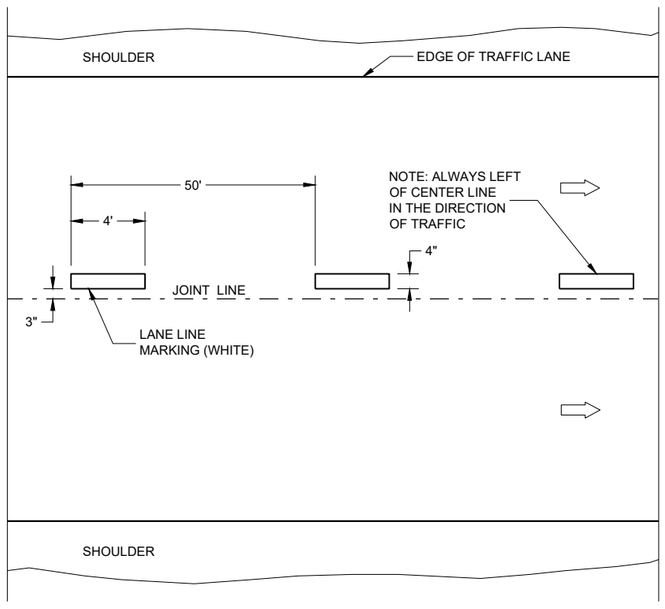
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

LEGEND

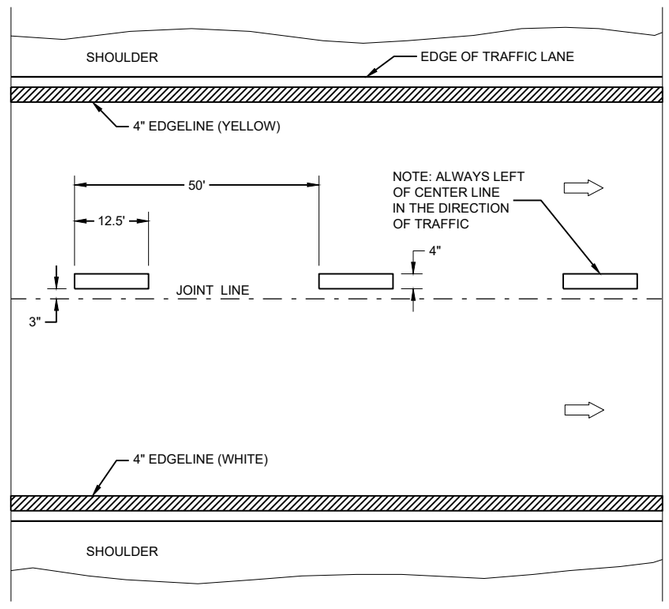
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022
DATE

/S/ Jeannie Silver
STATEWIDE SIGNING AND M
ENGINEER

FHWA

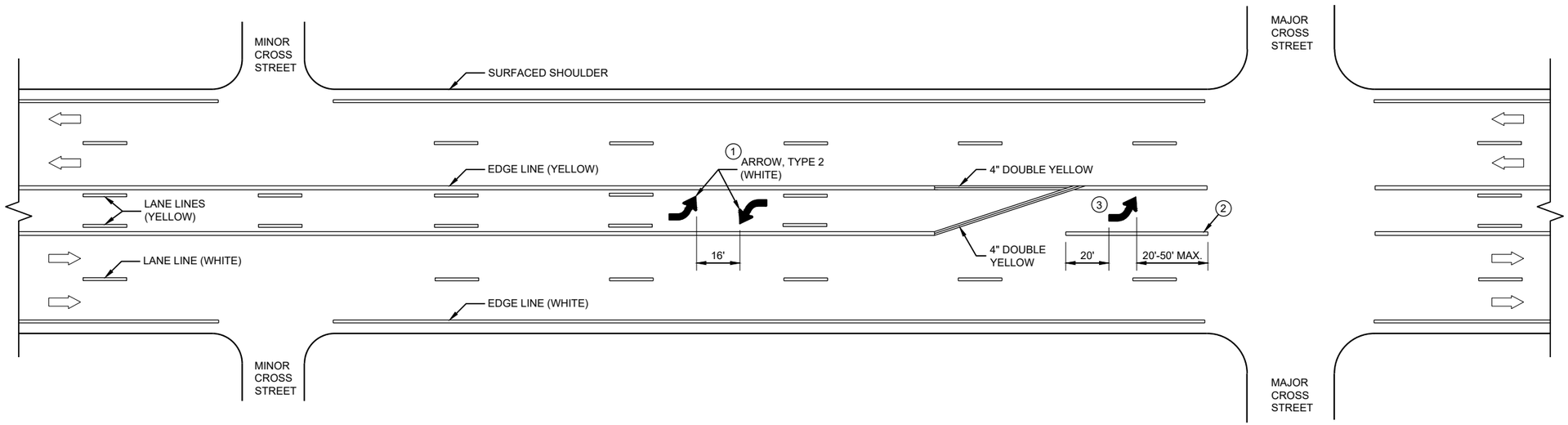
6

SDD 15C08 - 22b

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

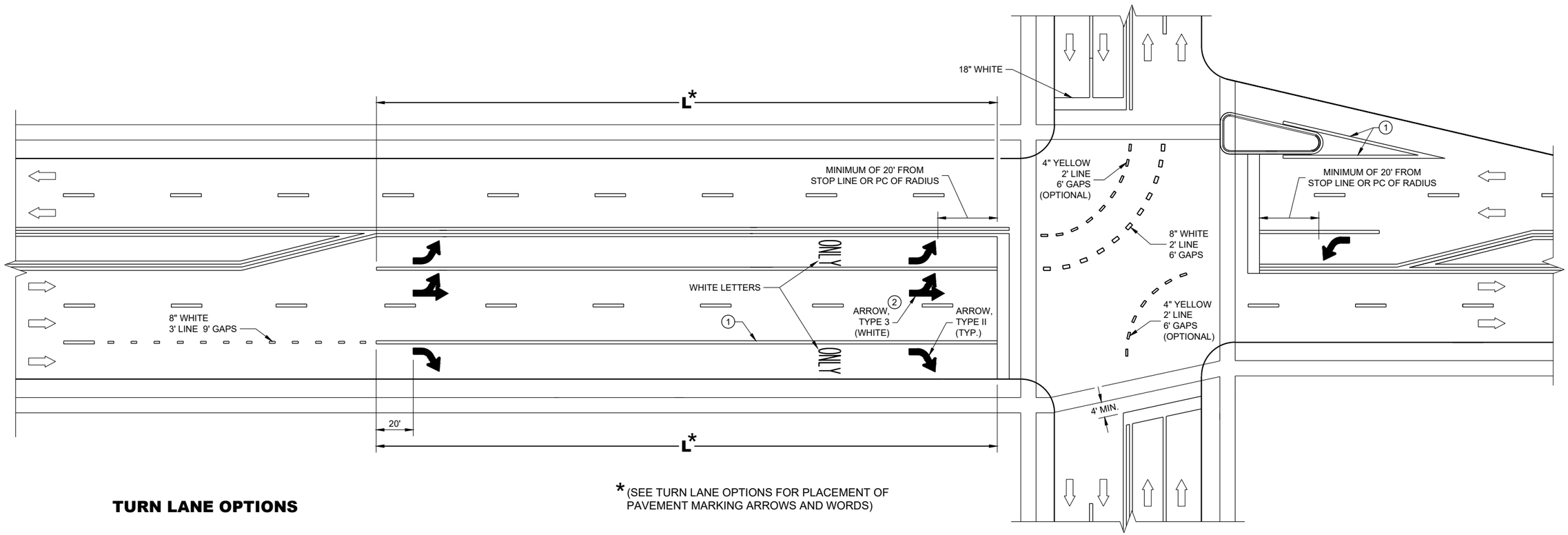
SDD 15C08 - 22c

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

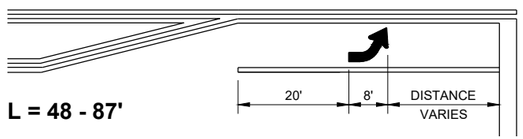
SDD 15C08 - 22c



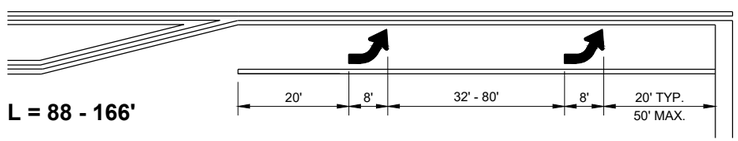
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

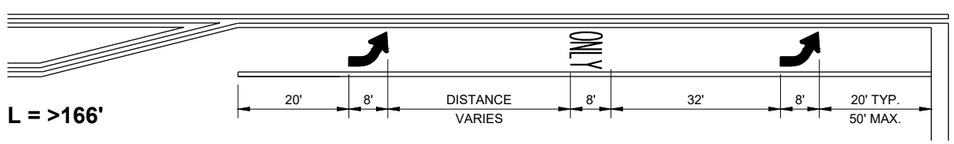
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

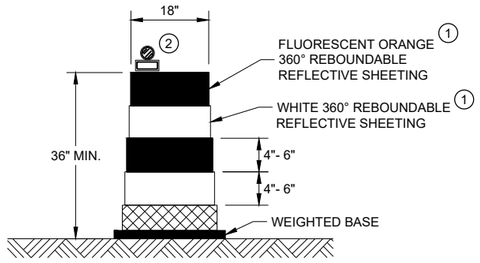
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

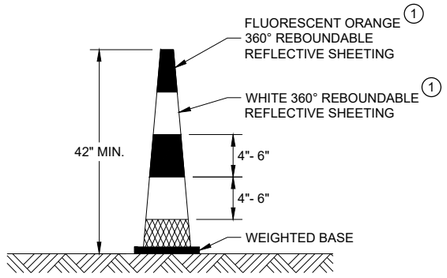
SDD 15C08 - 22d

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

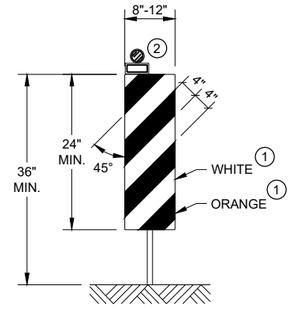


DRUM



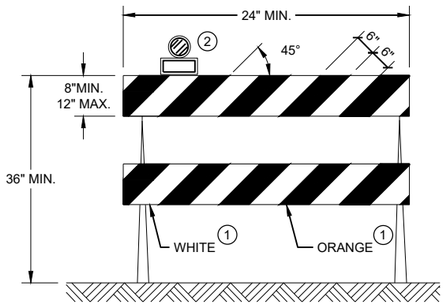
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



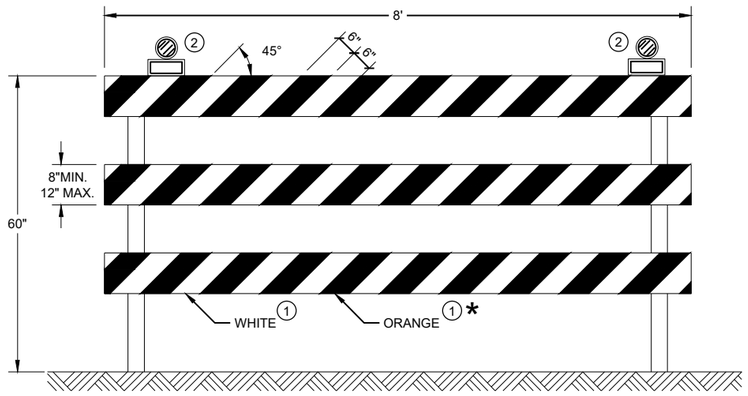
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD15C11 - 09b

6

SDD15C11 - 09b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

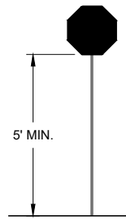
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF

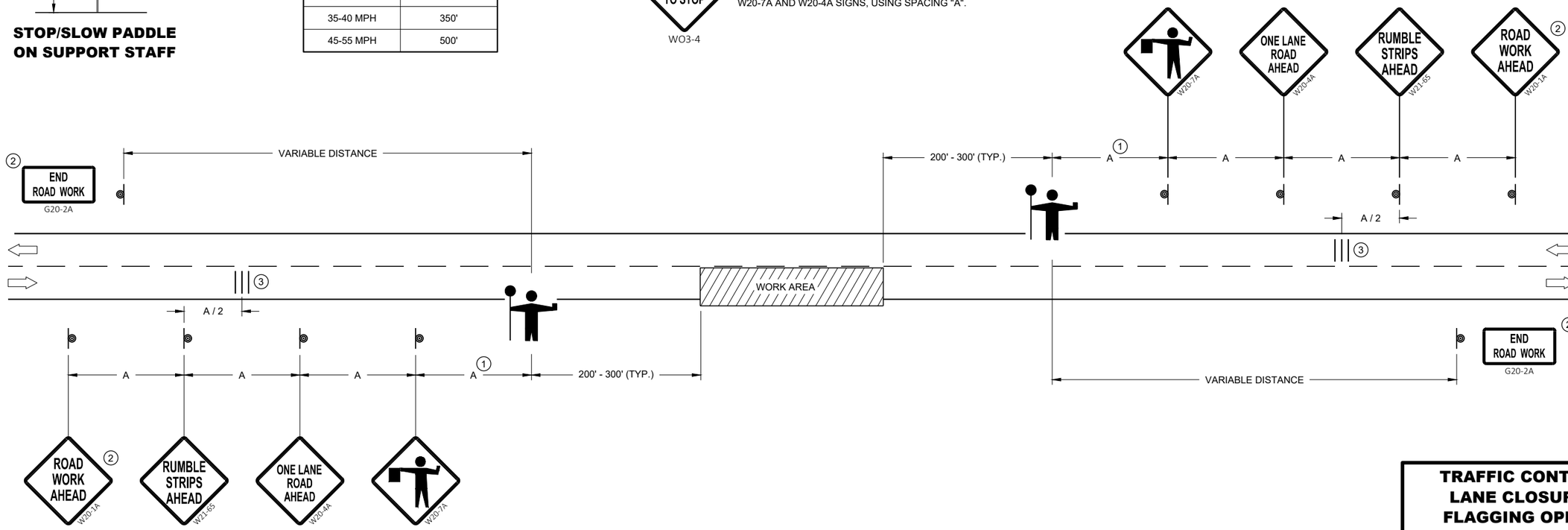
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

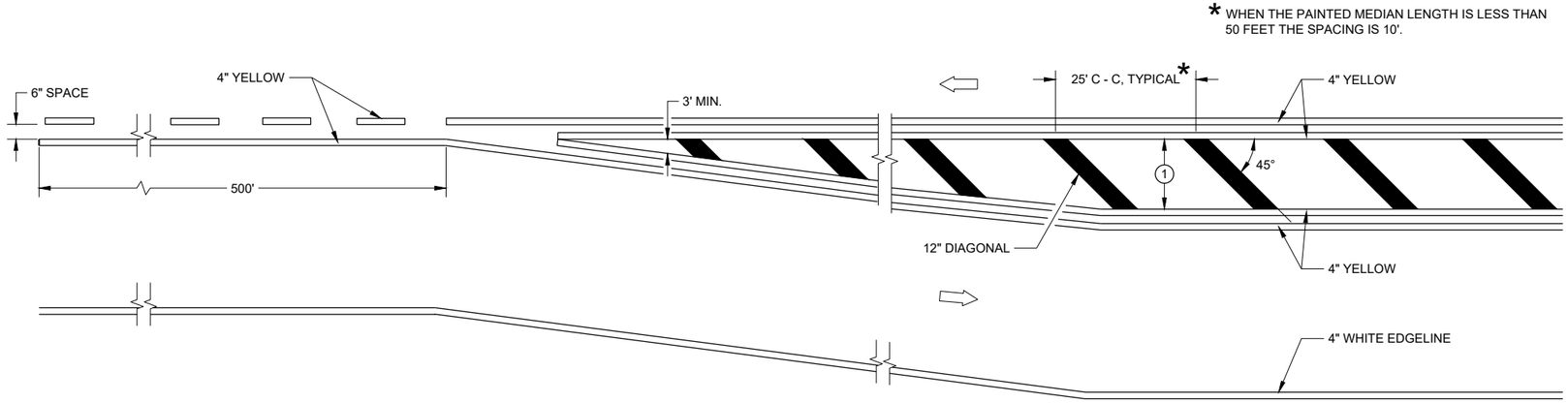
308

6

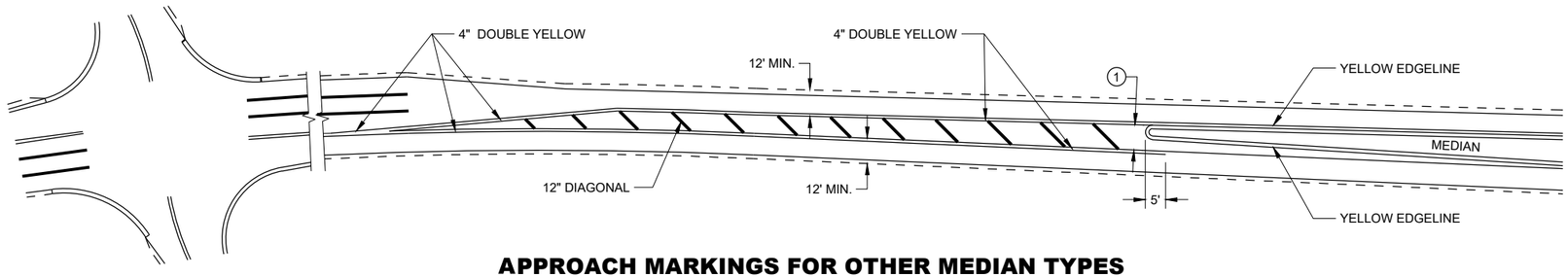
SDD 15C12 - 09a

6

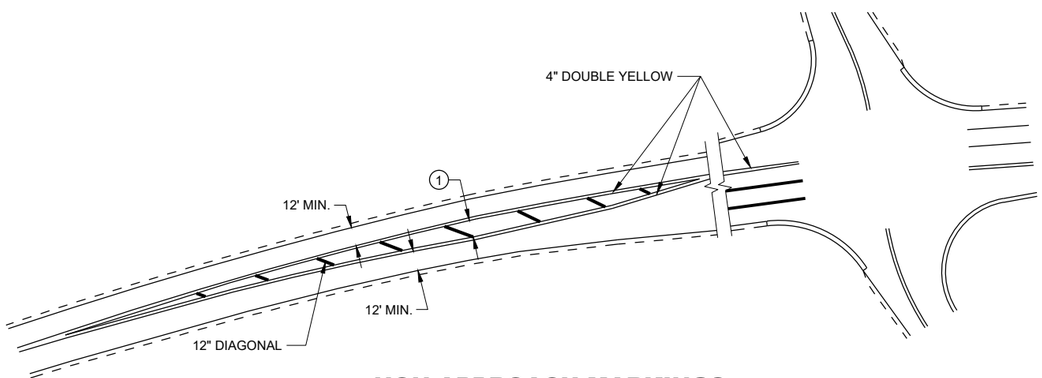
SDD 15C12 - 09a



MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

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

6

SDD 15C18 - 06a

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

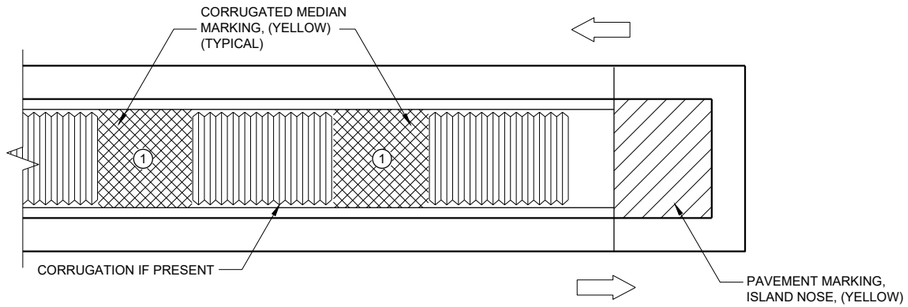
May 2022
DATE

/S/ Jeannie Silver
STATE SIGNING AND MAF ENGINEER

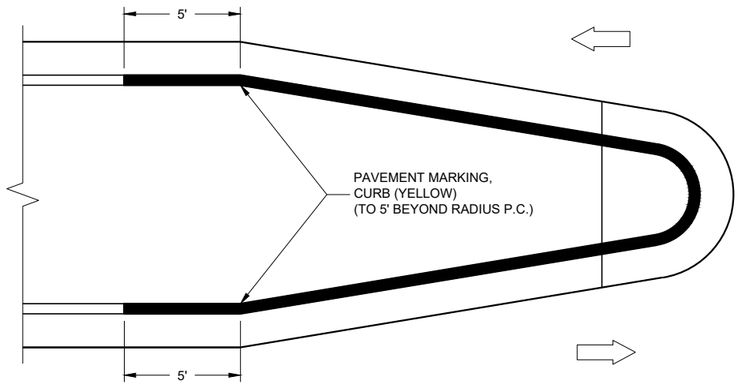
FHWA

6

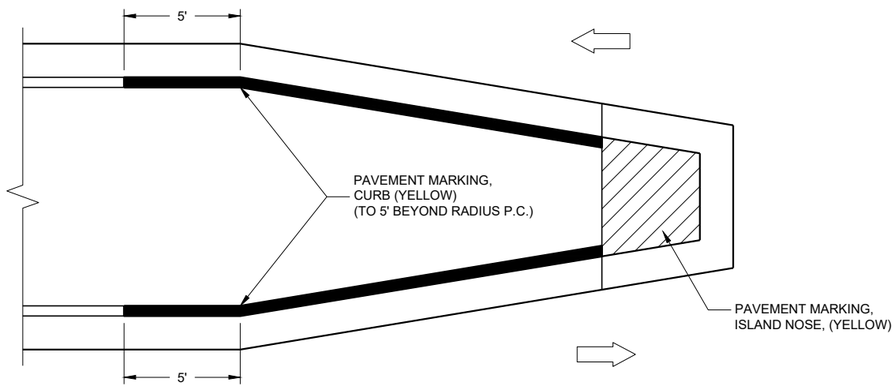
SDD 15C18 - 06a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022
DATE

/S/ Jeannie Silver
STATE SIGNING AND MAR ENGINEER

FHWA

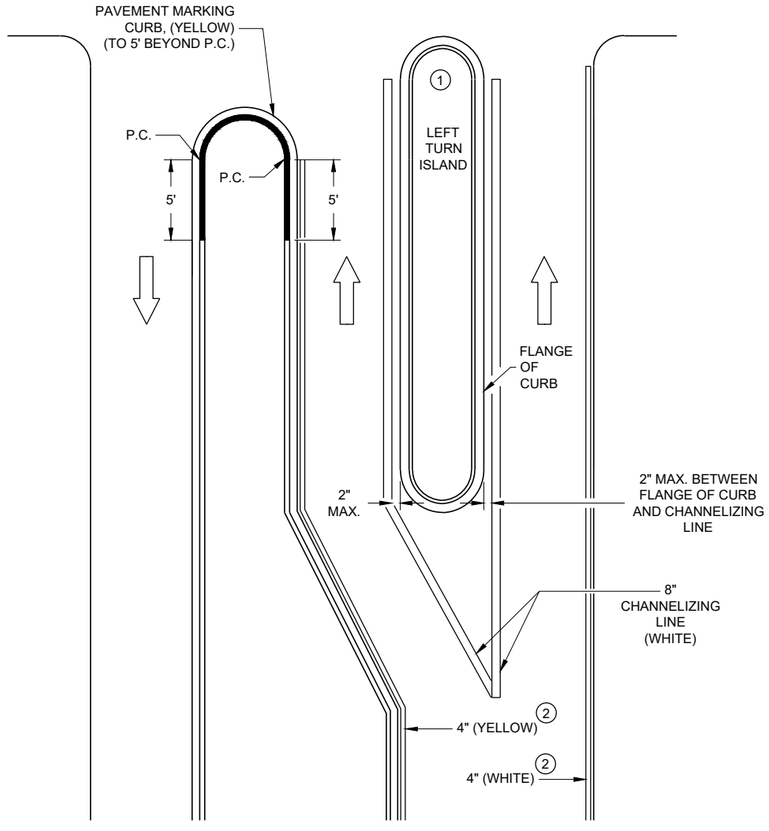
6

SDD 15C18 - 06b

6

SDD15C18 - 06b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

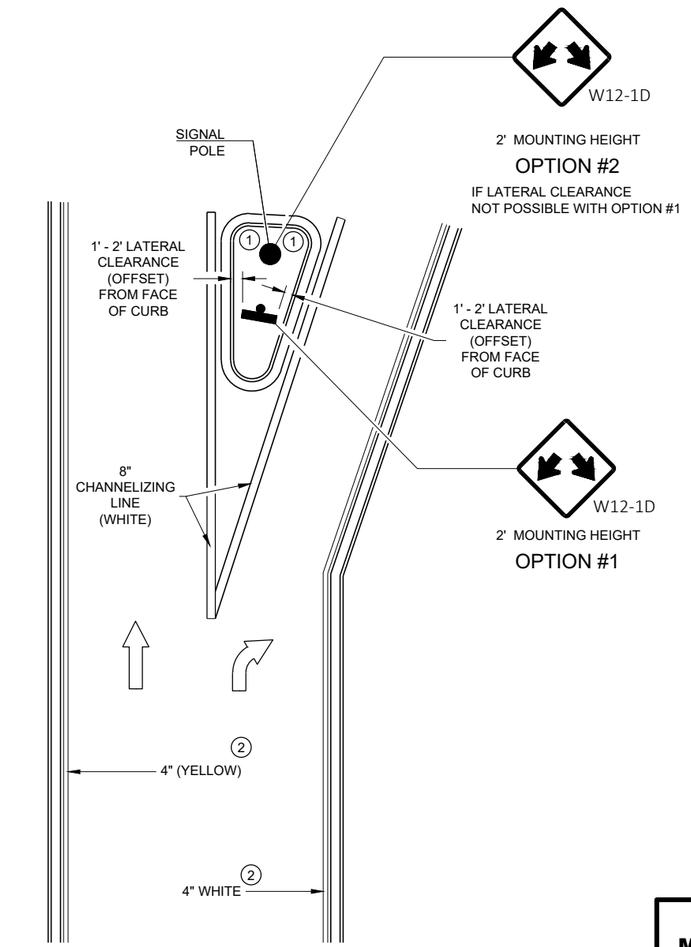
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022
DATE

/S/ Jeannie Silver
STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C18 - 06c

6

SDD15C18 - 06c

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

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

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

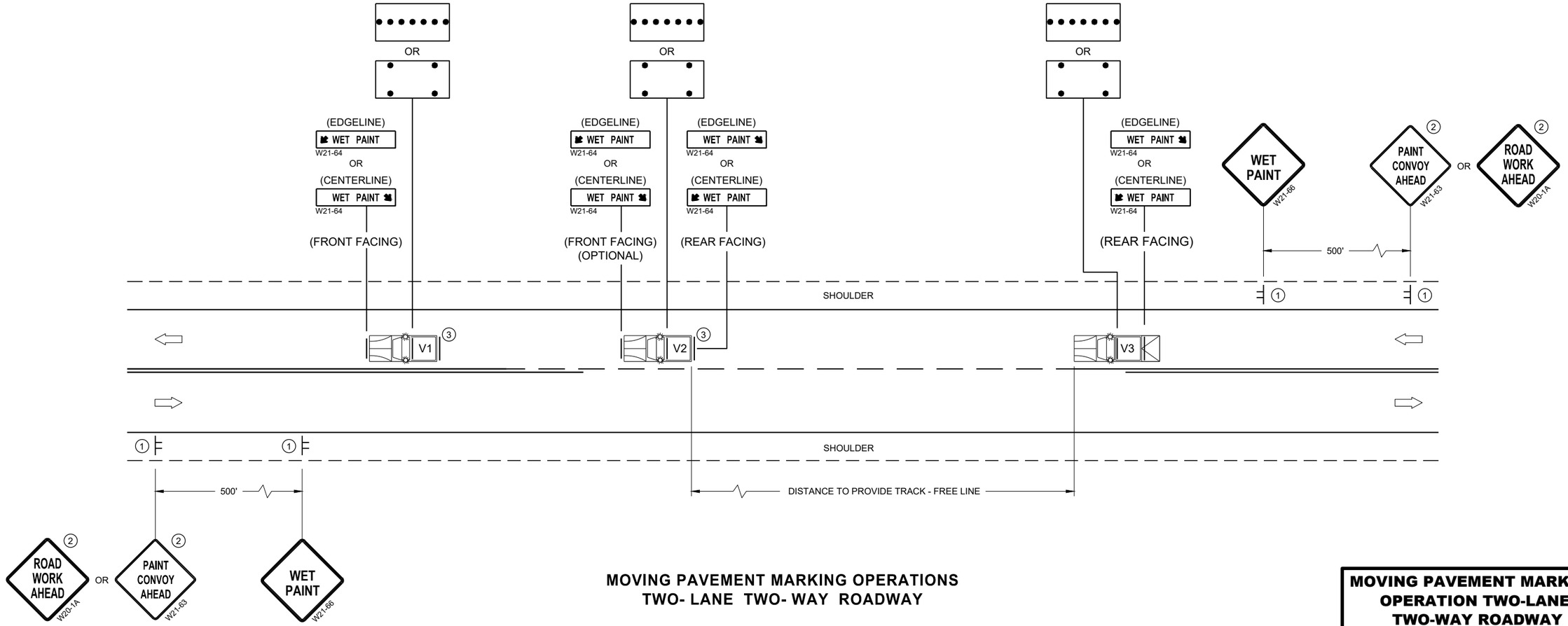
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

1. SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
2. IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.
3. V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.



MOVING PAVEMENT MARKING OPERATIONS TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

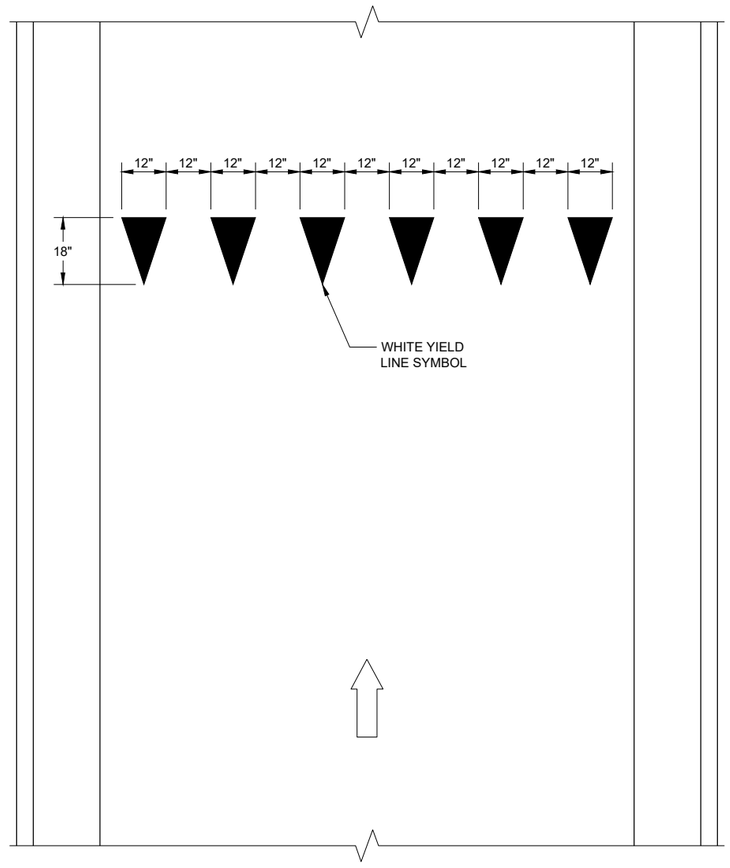
FHWA

6

SDD 15C19 - 07a

6

SDD 15C19 - 07a

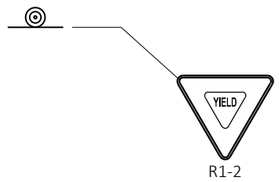


YIELD LINE

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL



R1-2

YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-81-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR ENGINEER

FHWA

6

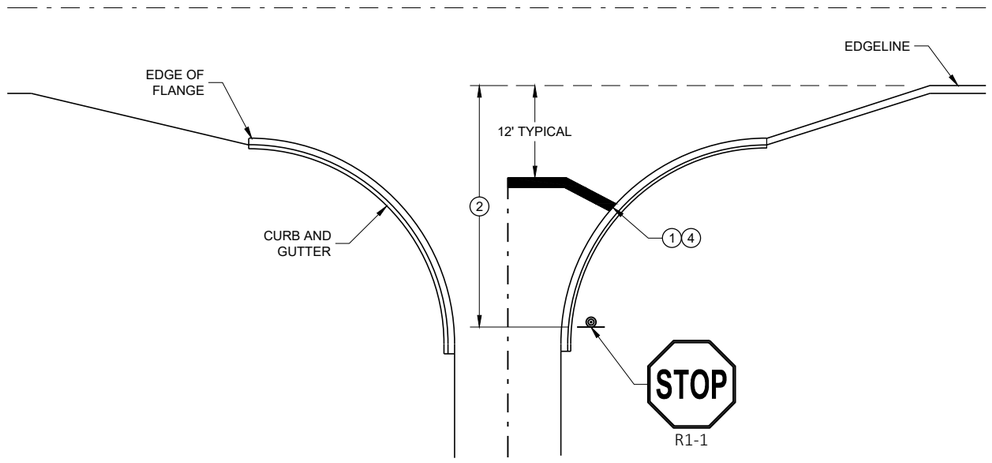
SDD 15C20 - 02

SDD 15C20 - 02

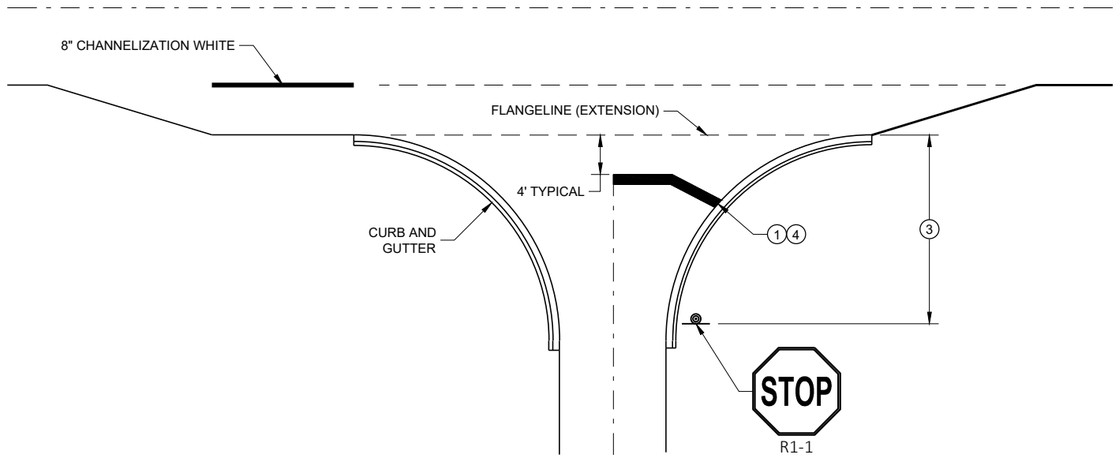
GENERAL NOTES

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

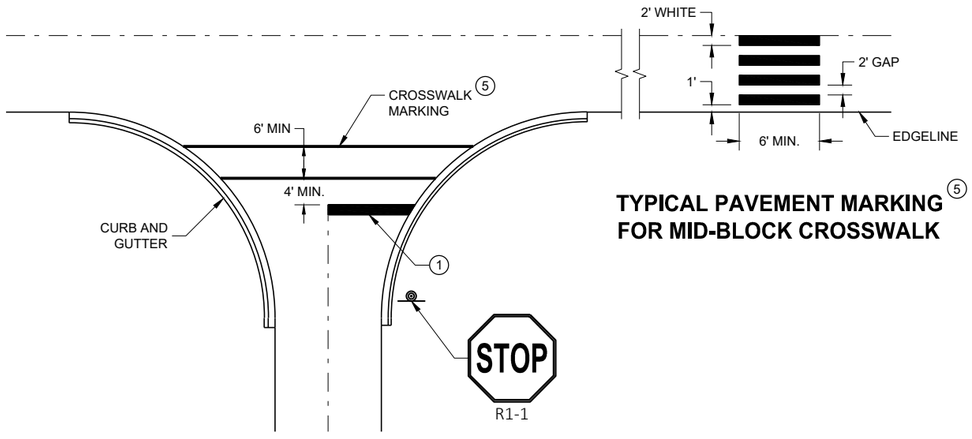
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE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

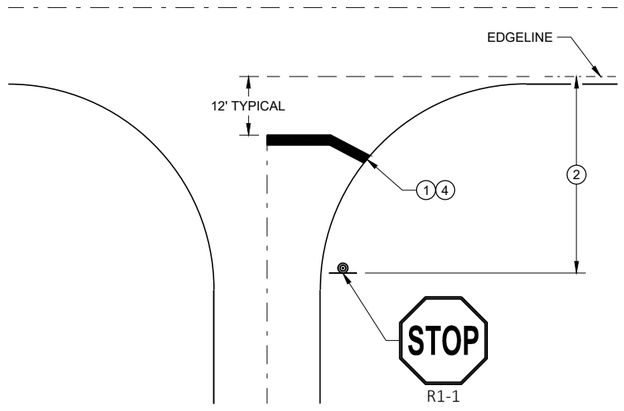


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



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

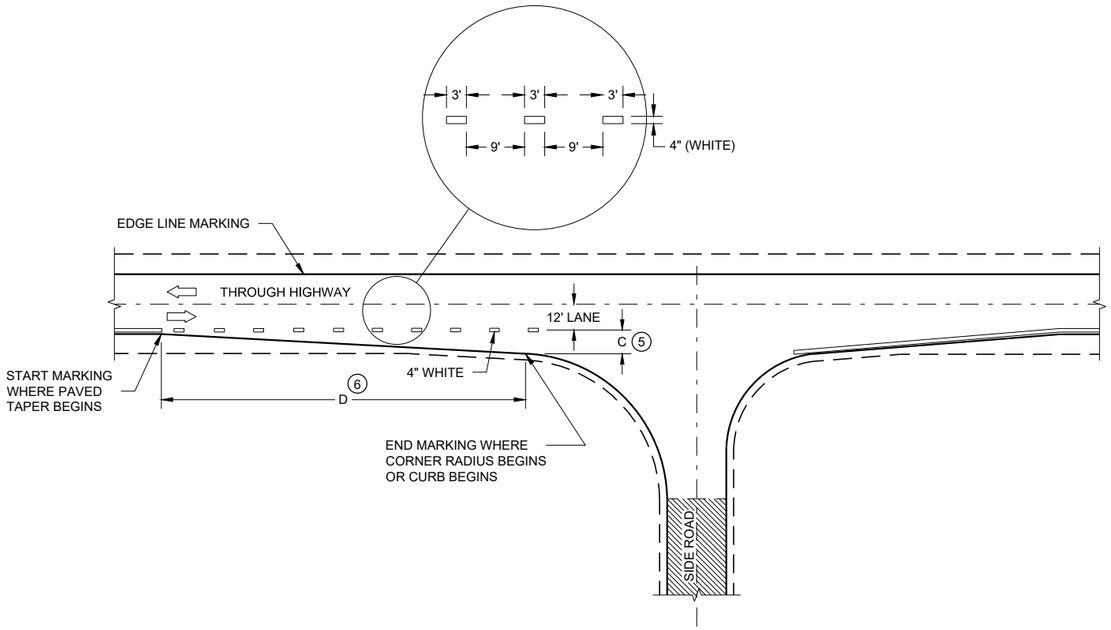
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

6
SDD 15C33 - 04



MINOR INTERSECTION

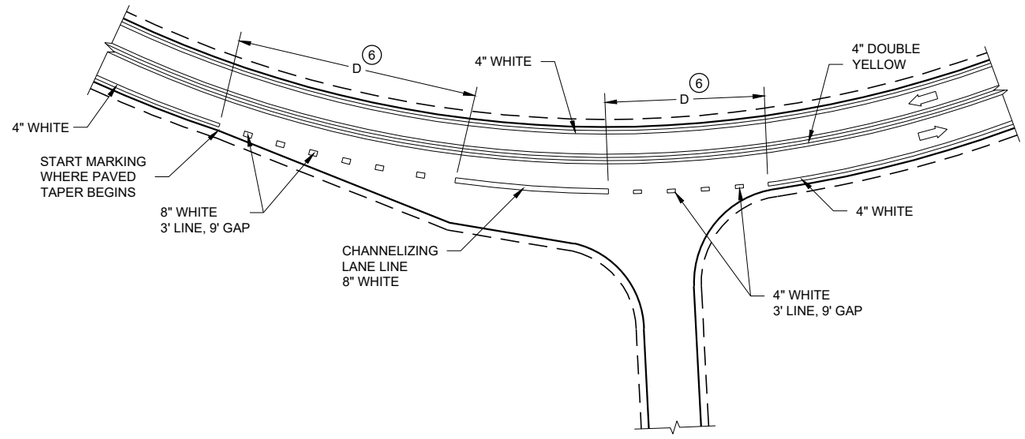
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

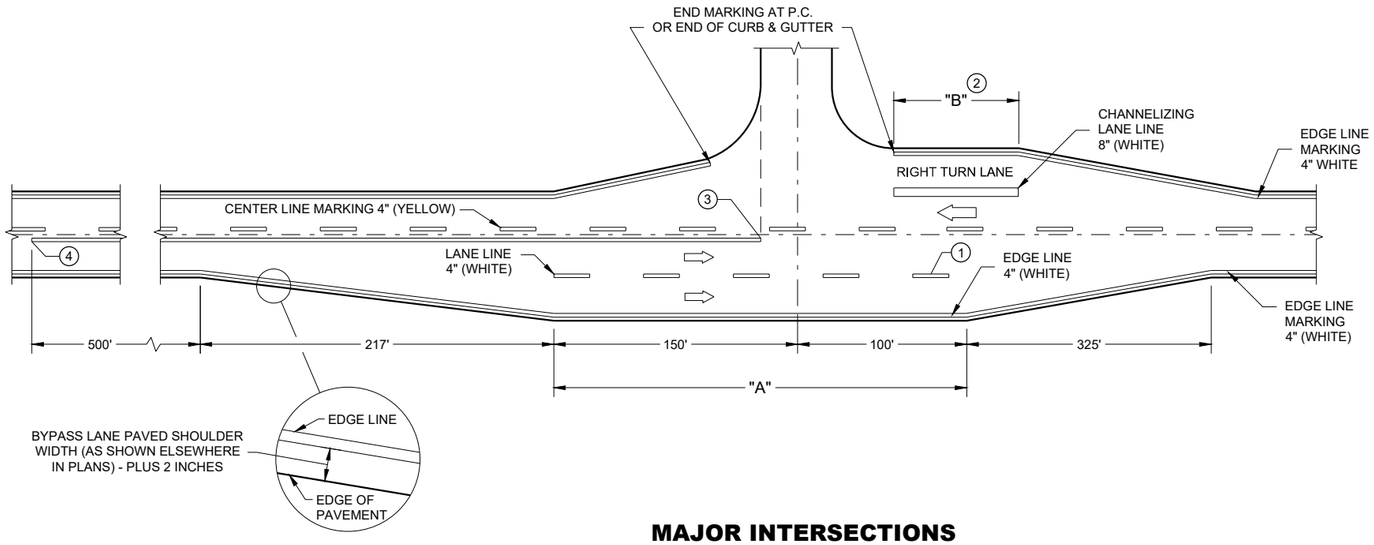
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

DIRECTION OF TRAVEL



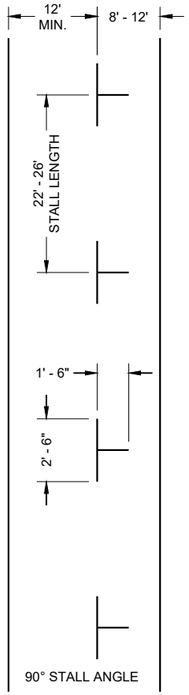
INTERSECTION ON OUTSIDE OF CURVE



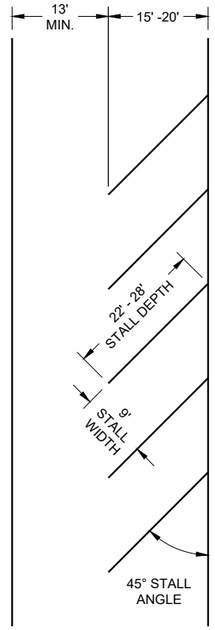
MAJOR INTERSECTIONS

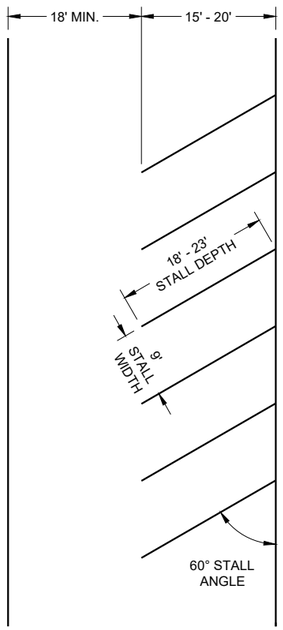
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)



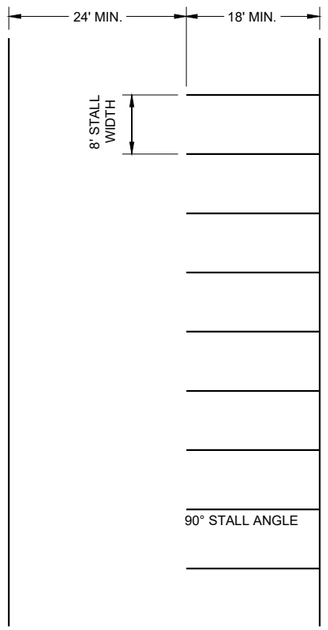
PARALLEL PARKING





ANGLED PARKING

(ANGLED PARKING IS NOT ALLOWED ON STATE HIGHWAYS UNLESS A DESIGN JUSTIFICATION HAS BEEN COMPLETED.)



PARKING LOTS

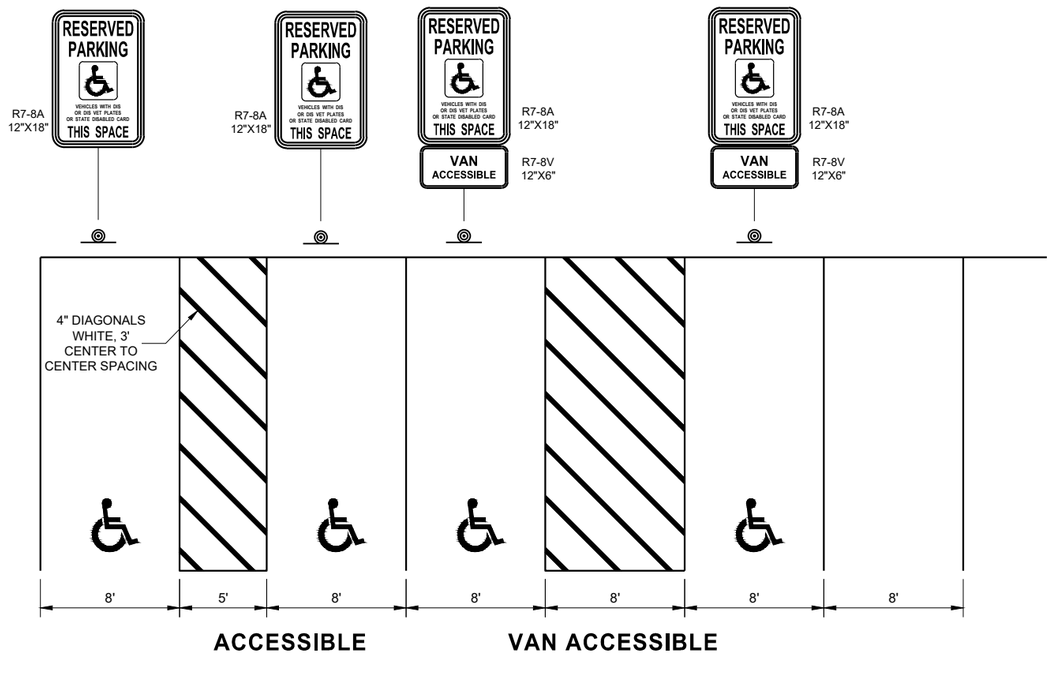
GENERAL NOTES

ALL LINES 4" WHITE (UNLESS OTHERWISE NOTED)

LAST PARKING STALL IS A MINIMUM OF 15' FROM THE CROSSWALK.

LEGEND

SIGN ON PERMANENT SUPPORT



ACCESSIBLE VAN ACCESSIBLE

PARKING STALL MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAR ENGINEER

FHWA

6

SDD 15C36 - 01
SDD 15C36 - 01

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

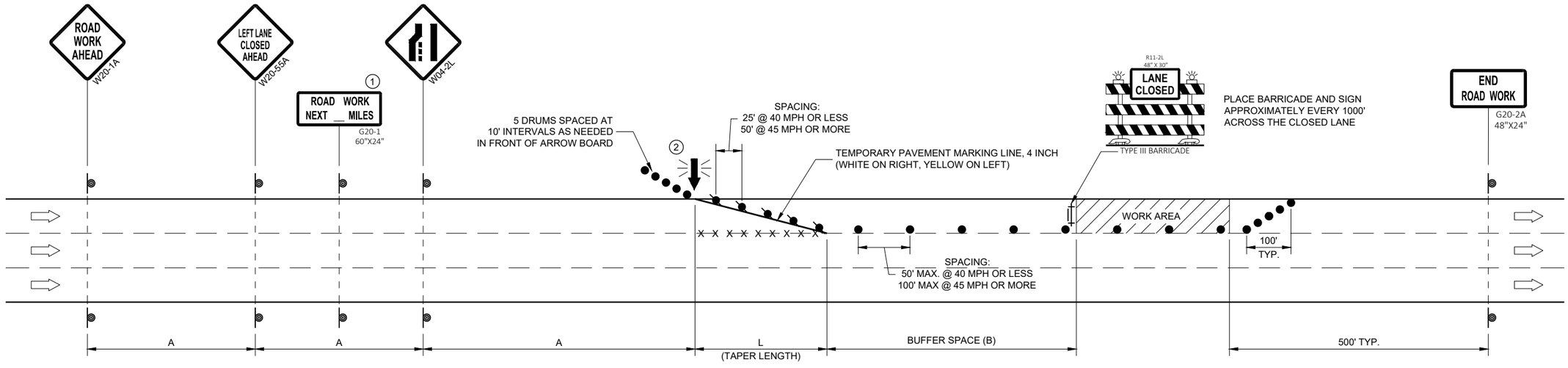
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

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

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

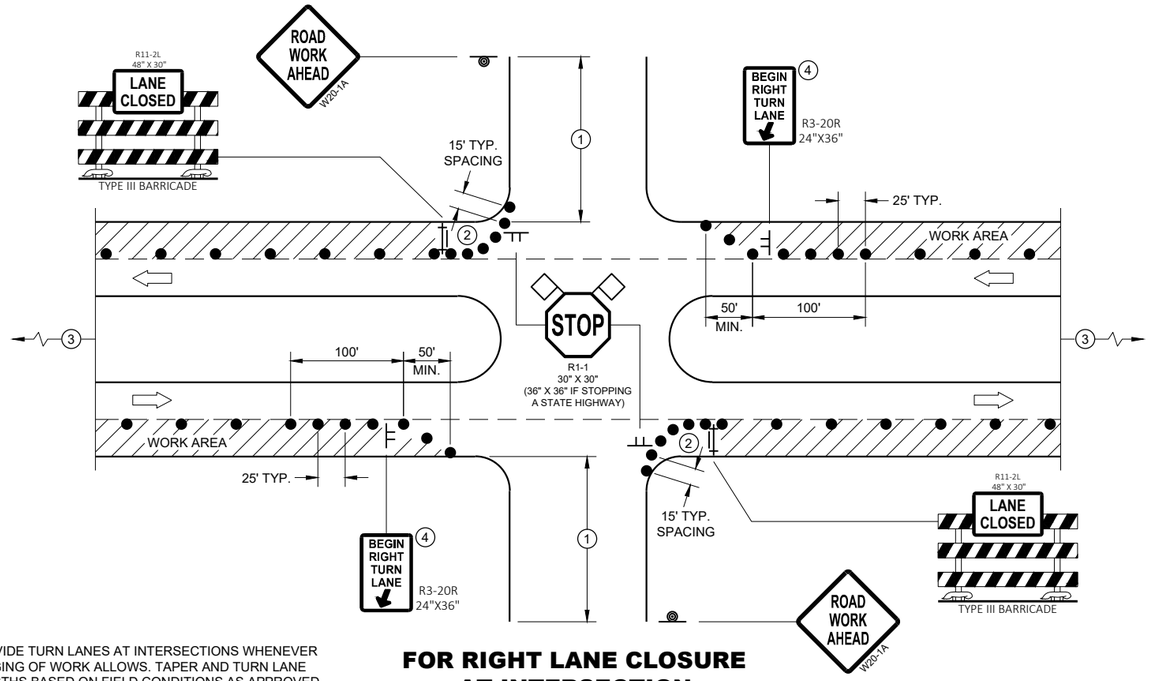
317

6

SDD 15D20 - 06a

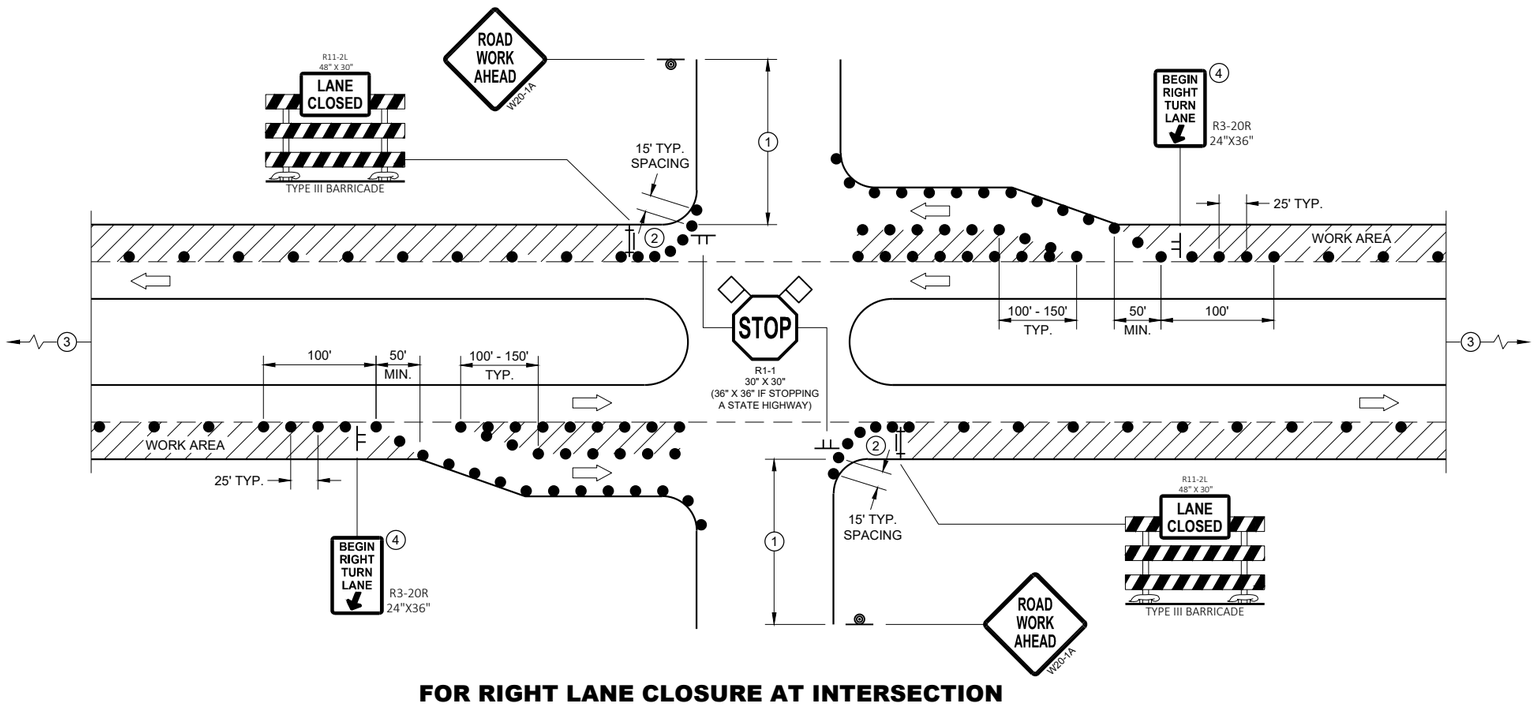
6

SDD15D20 - 06a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR RIGHT LANE CLOSURE AT INTERSECTION



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

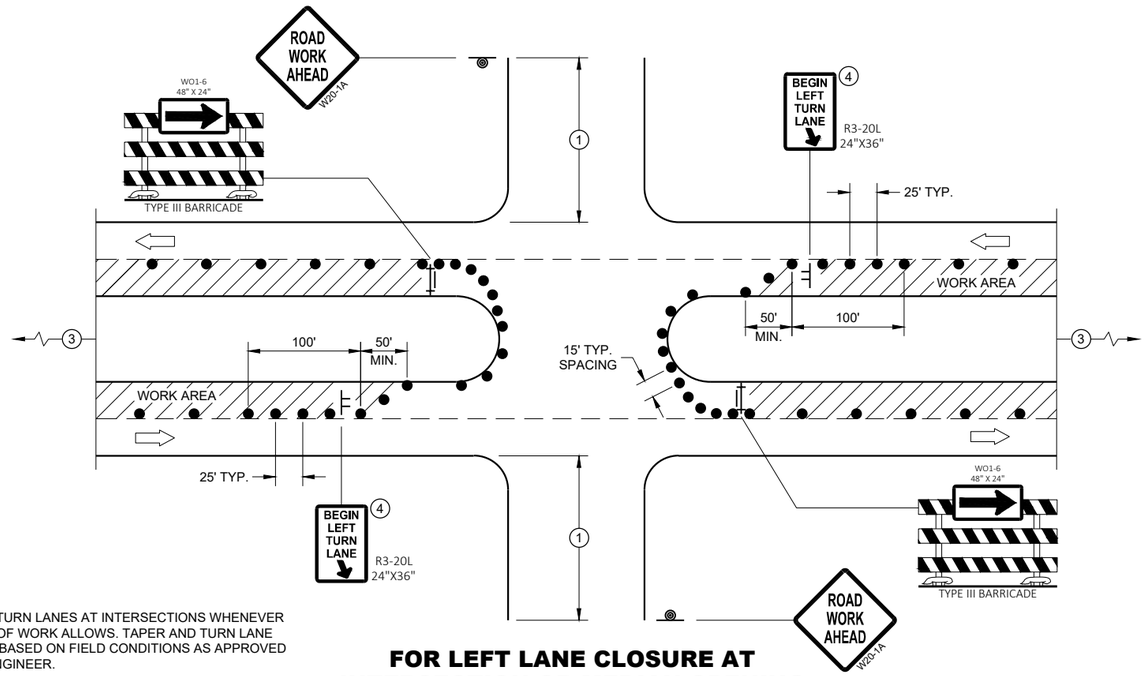
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D21 - 07a

6

SDD 15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

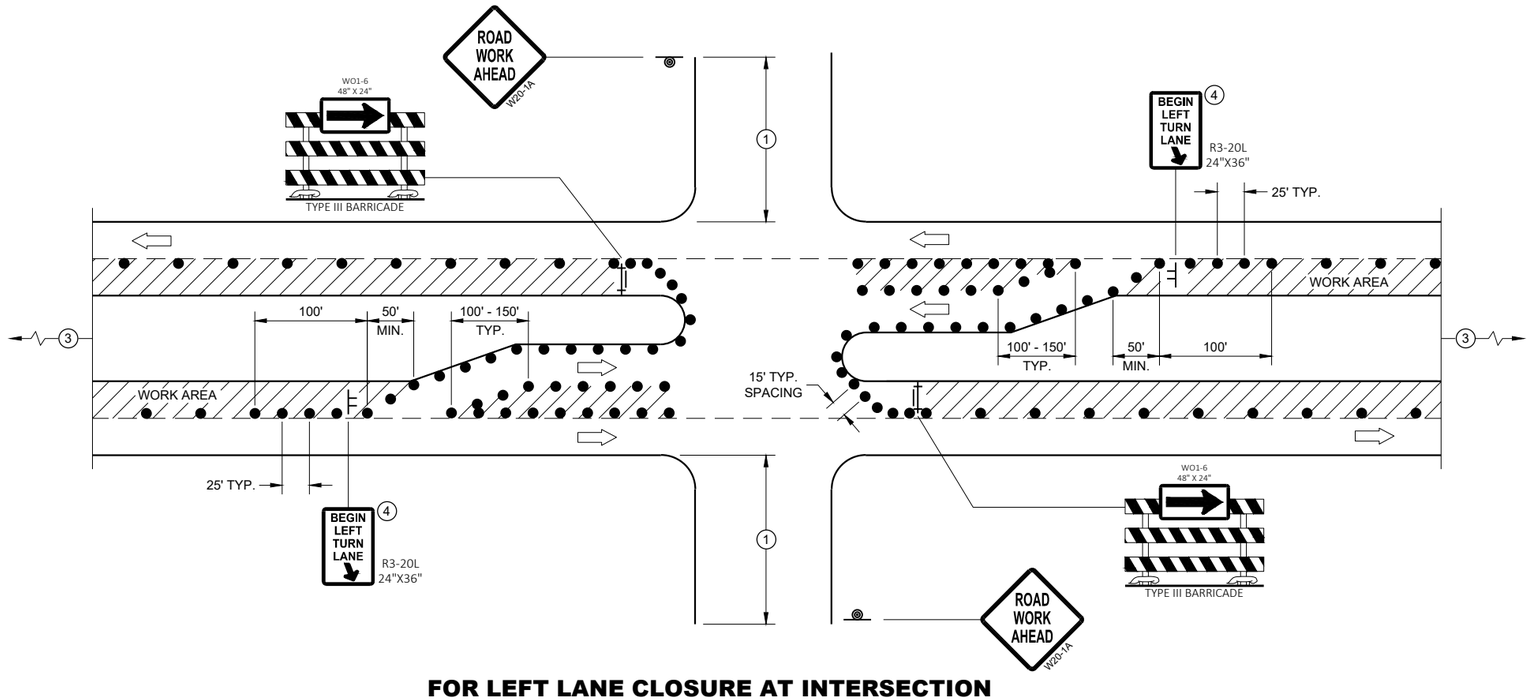
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D21 - 07b

6

SDD 15D21 - 07b

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

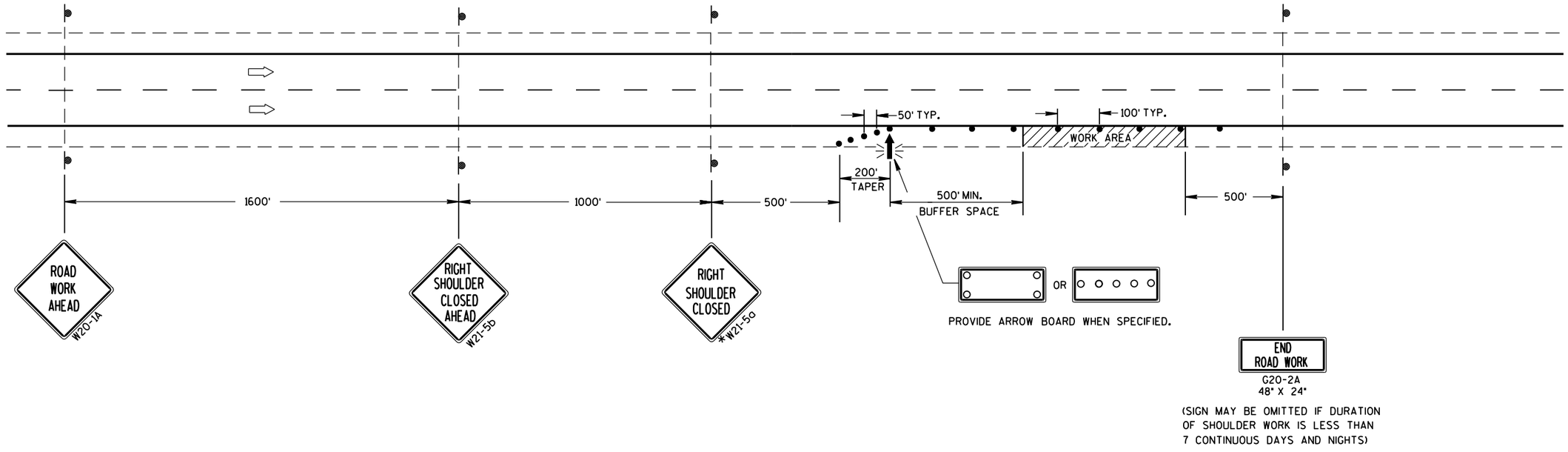
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

6

S.D.D. 15 D 27-3

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

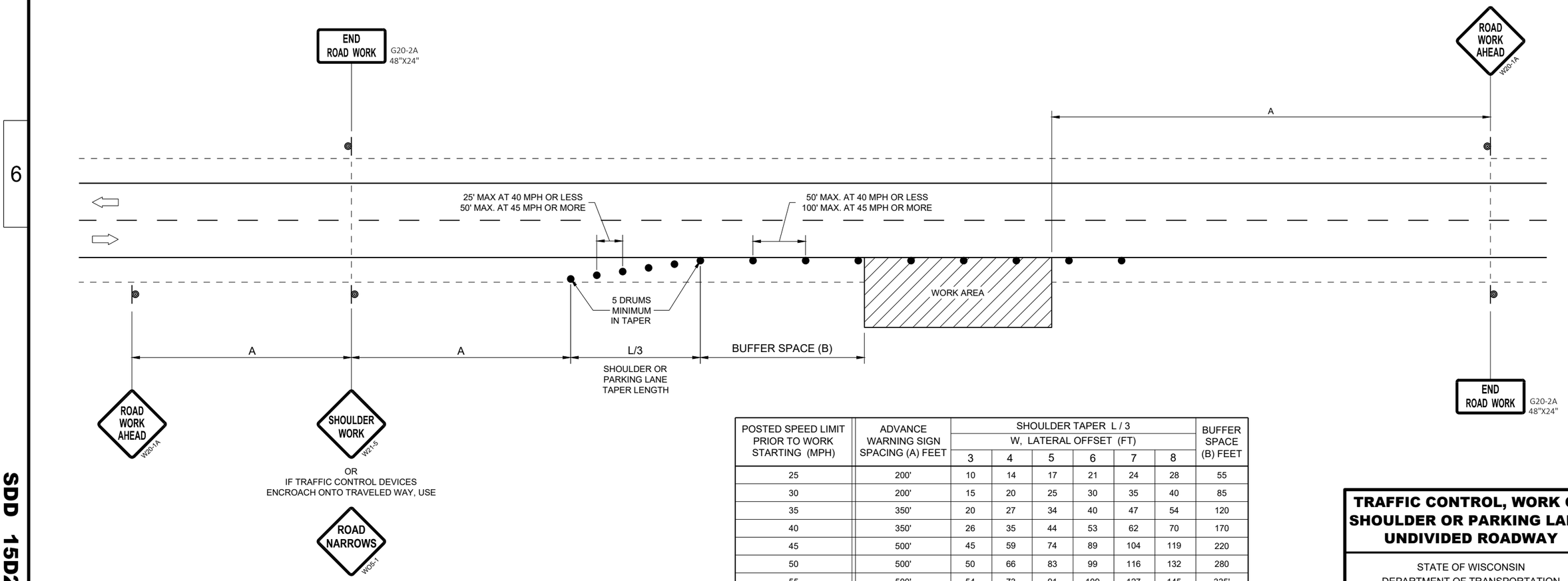
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

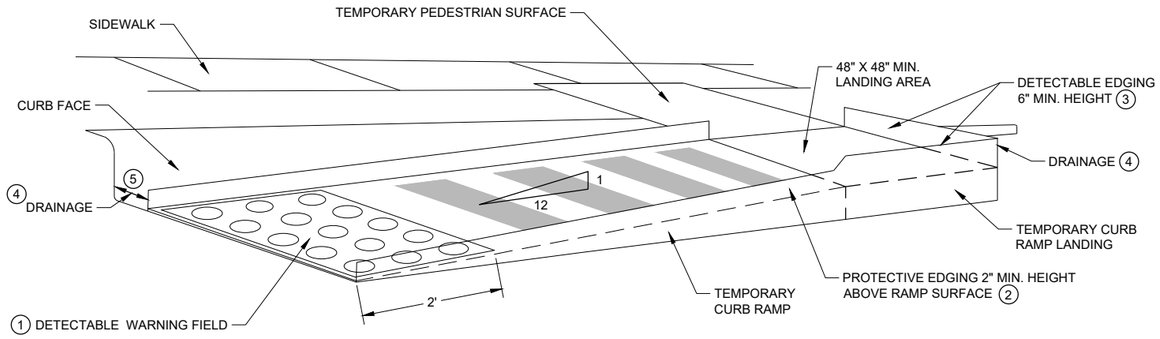
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

6

SDD 15D28 - 04



PERSPECTIVE VIEW

GENERAL NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.

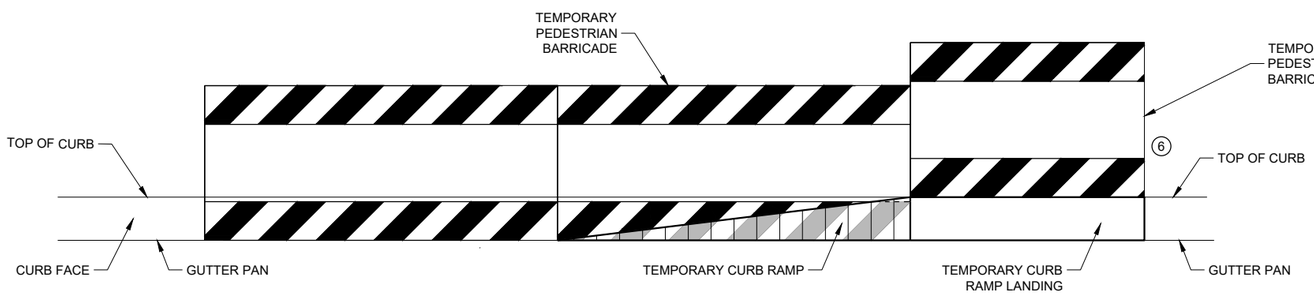
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

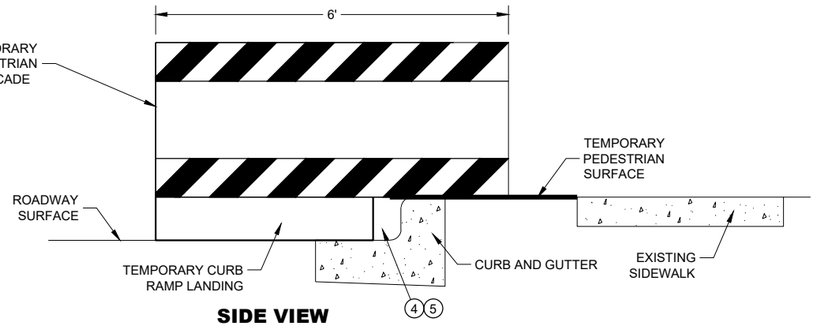
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) 6" MINIMUM BETWEEN CURB FACE AND EDGE OF RAMP

(6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



FRONT VIEW



SIDE VIEW

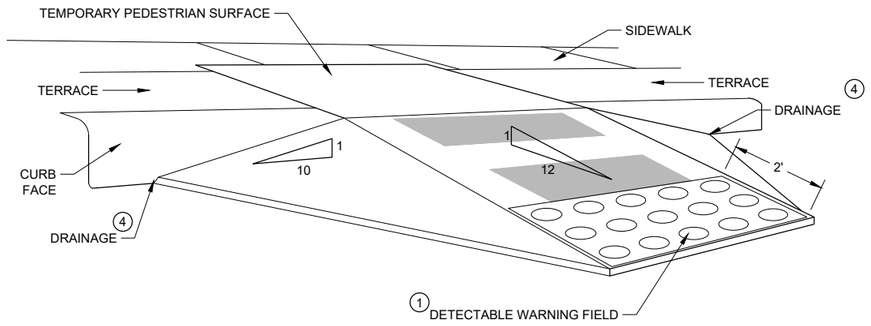
TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

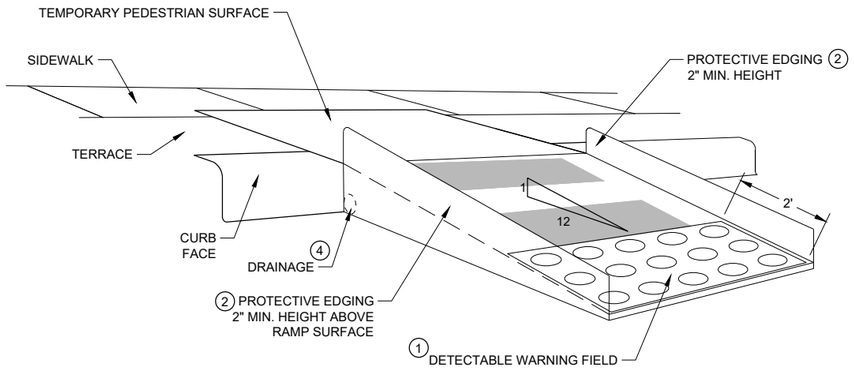
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 07b



WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

GENERAL NOTES

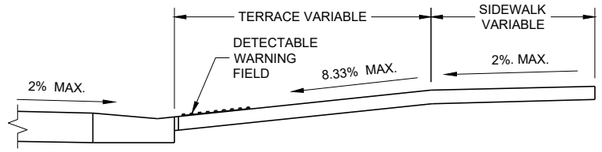
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

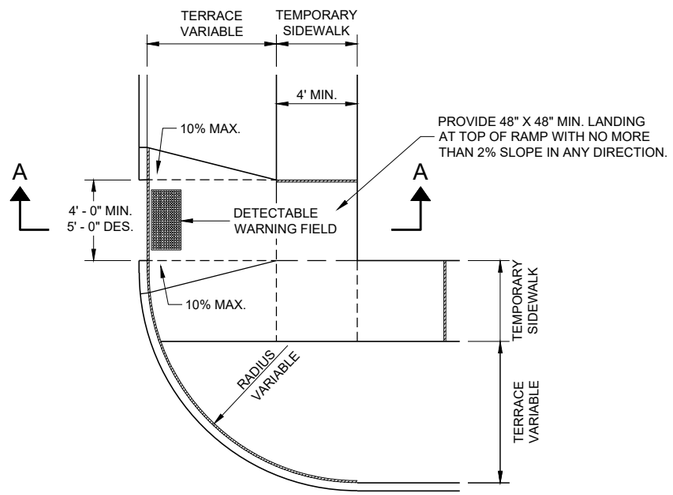
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



SECTION A - A



PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

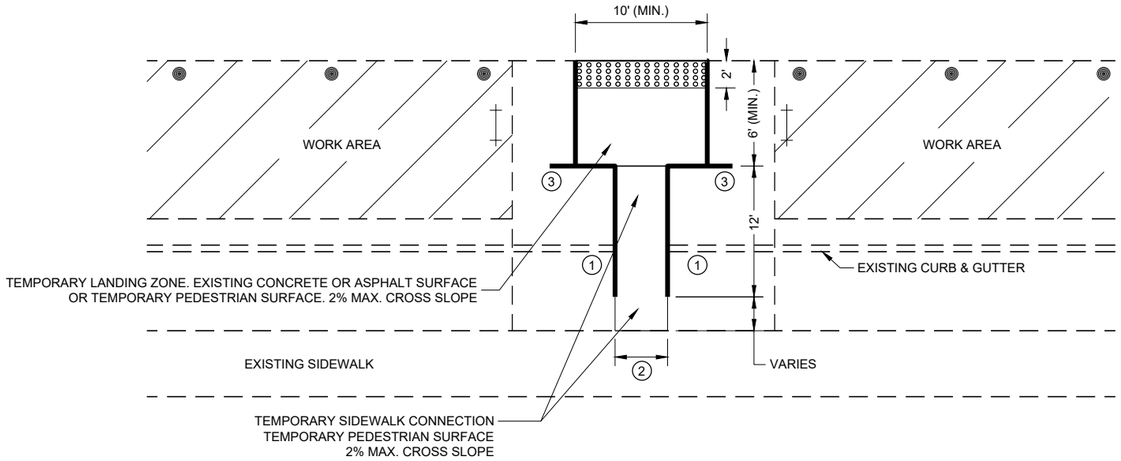
APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

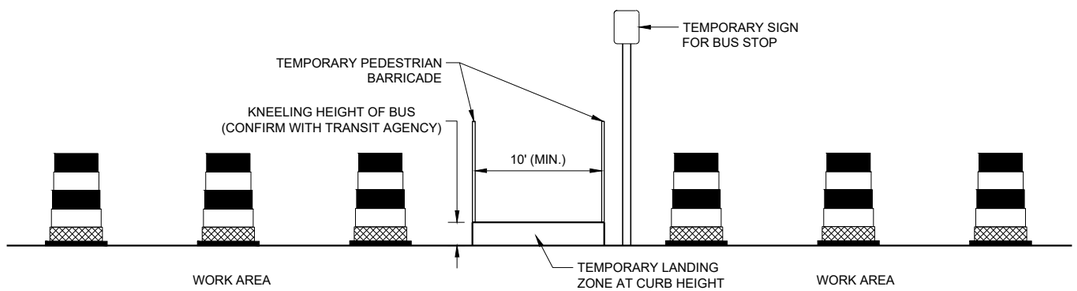
FHWA

6

SDD 15D30 - 07d



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

(1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.

(3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY DETECTABLE WARNING FIELD
- WORK AREA

6

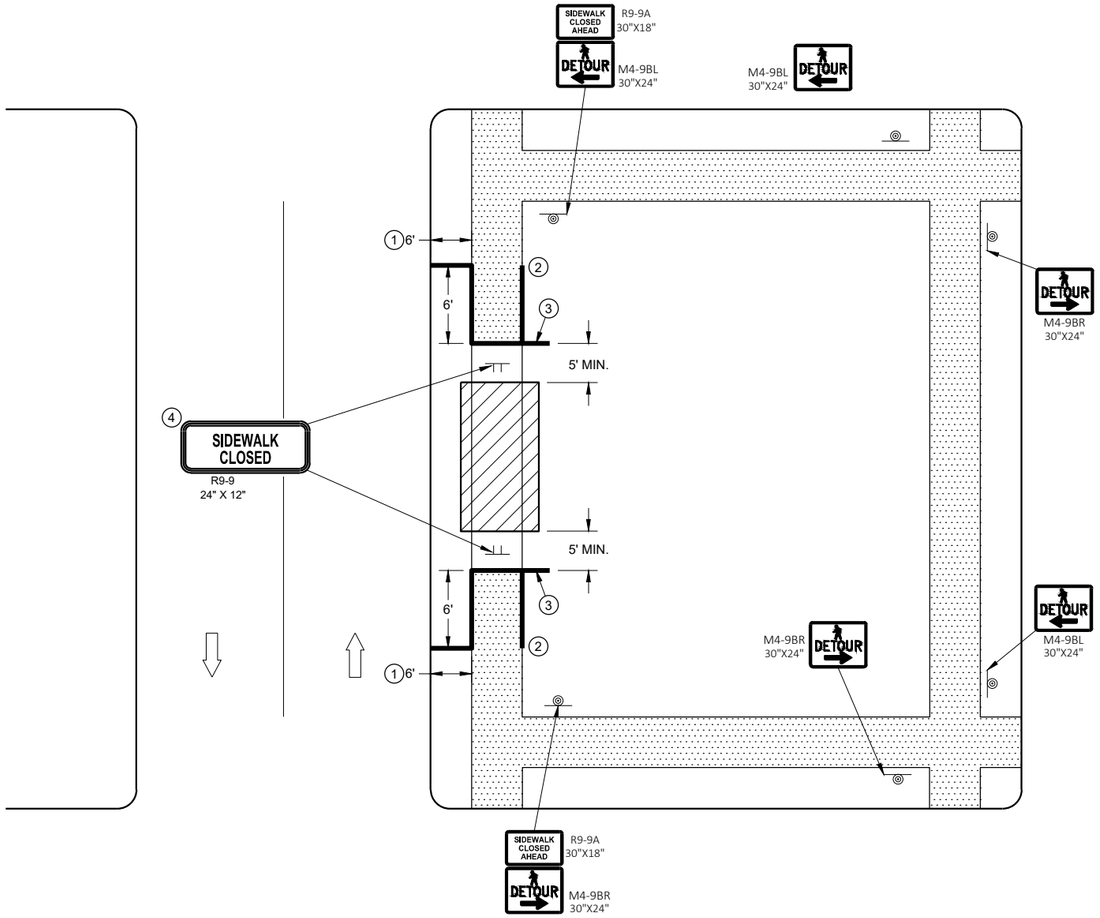
SDD 15D30 - 07e

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA1 325

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

SDD 15D30 - 07f

LEGEND

- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY PEDESTRIAN SURFACE
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

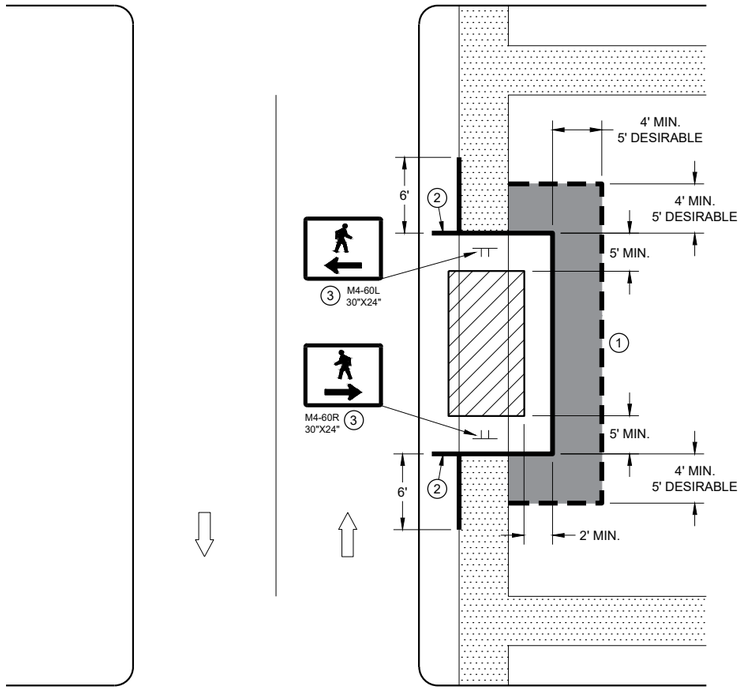
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

1. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
2. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK DIVERSION
SINGLE SIDE

6

SDD 15D30 - 07g

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 07g

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

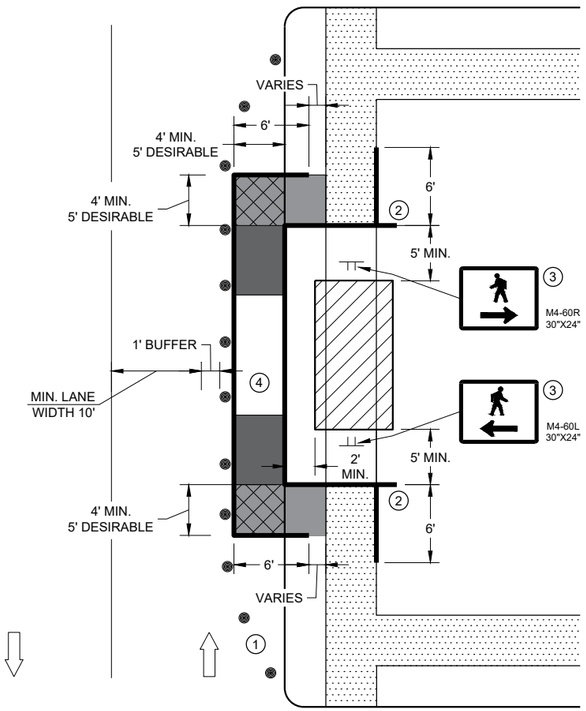
GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.
2. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.
4. USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.



SIDEWALK DIVERSION, SINGLE SIDE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

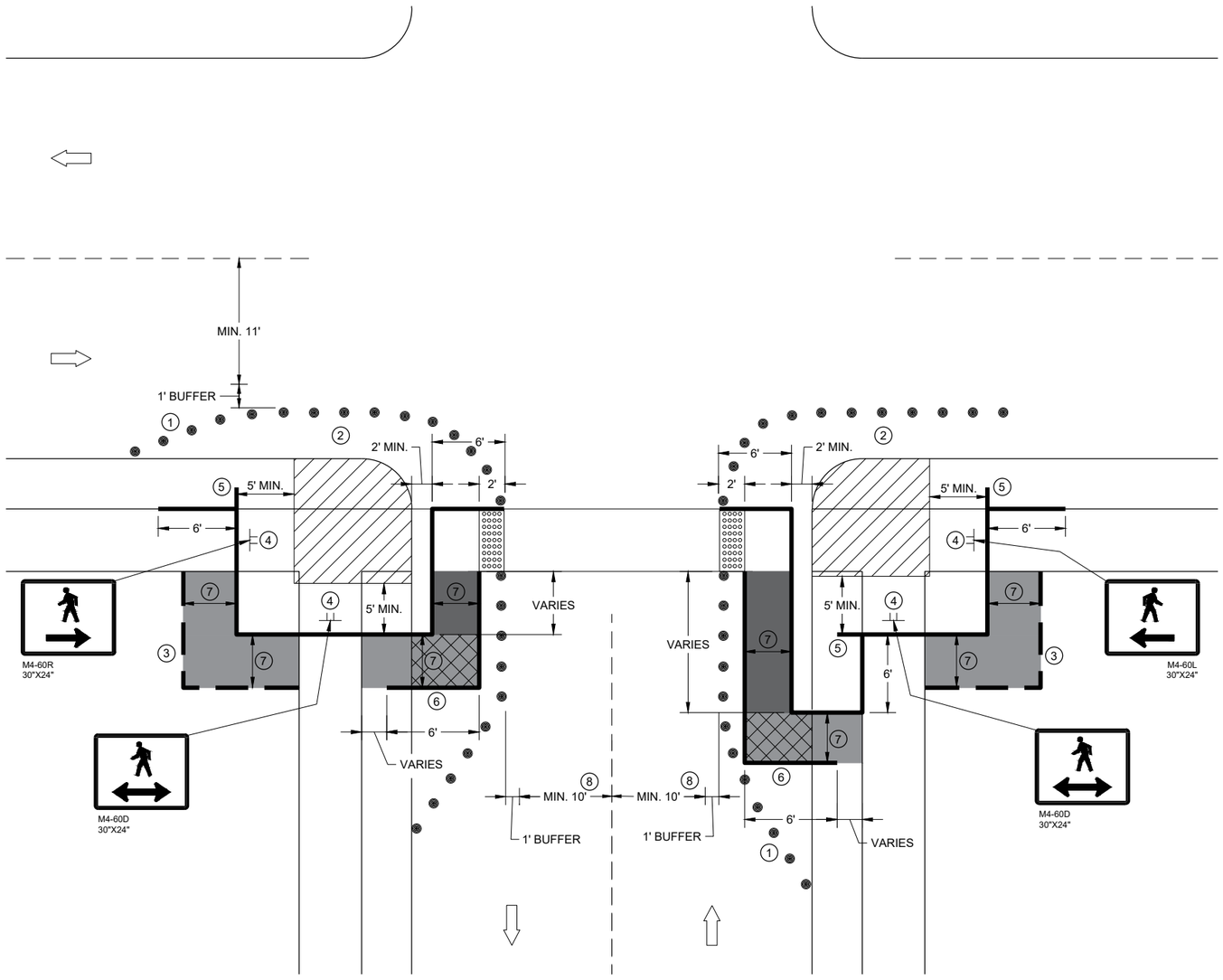
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 07h

6

SDD 15D30 - 07h



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

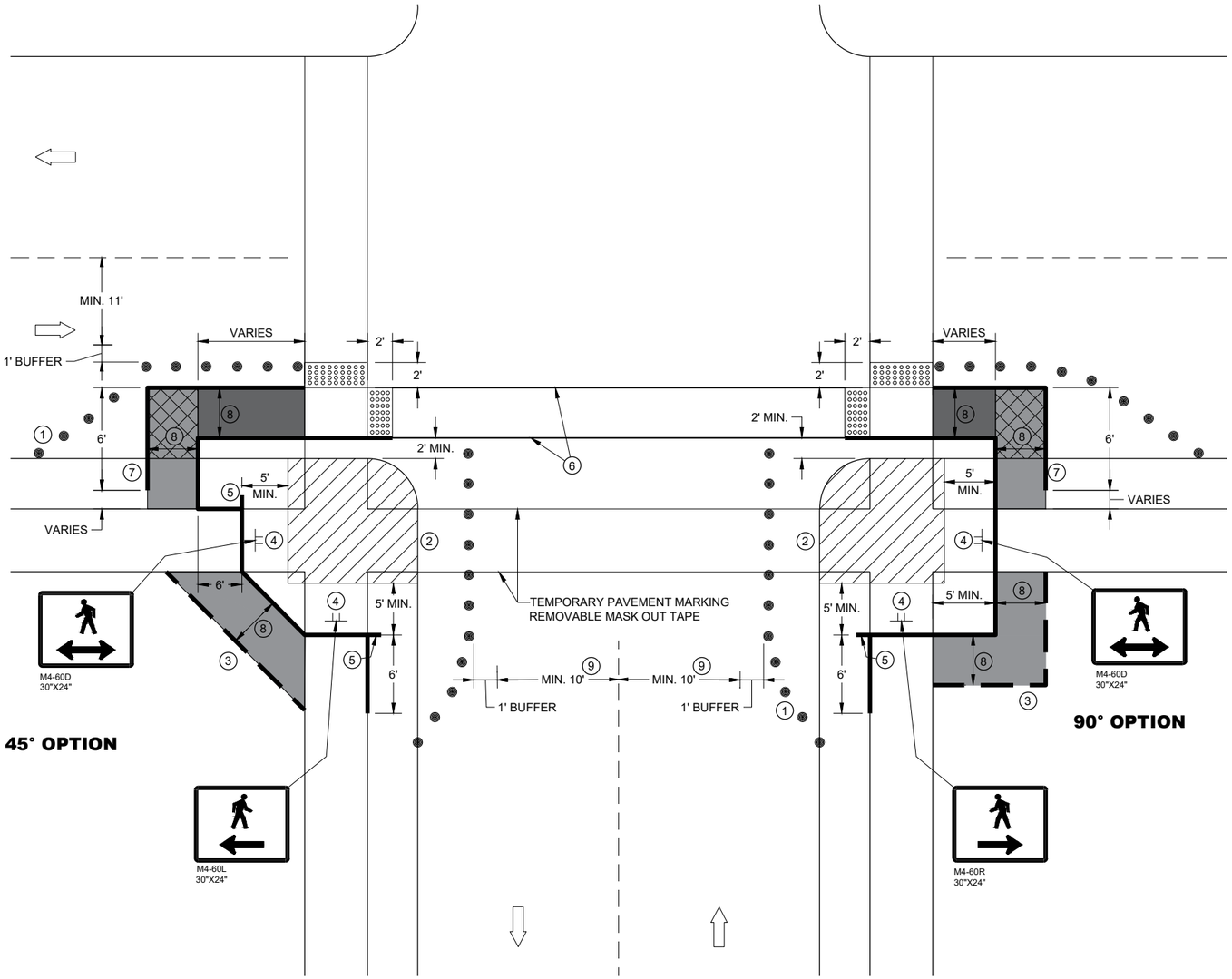
1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
7. 4 FEET MINIMUM, 5 FEET DESIRABLE
8. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

6
SDD 15D30 - 07i



CURB RAMP PEDESTRIAN TRAFFIC CONTROL

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. WHITE 6" TEMPORARY PAVEMENT MARKING
7. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
8. 4 FEET MINIMUM, 5 FEET DESIRABLE
9. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

SDD 15D30 - 07j

6

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

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 RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS 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.

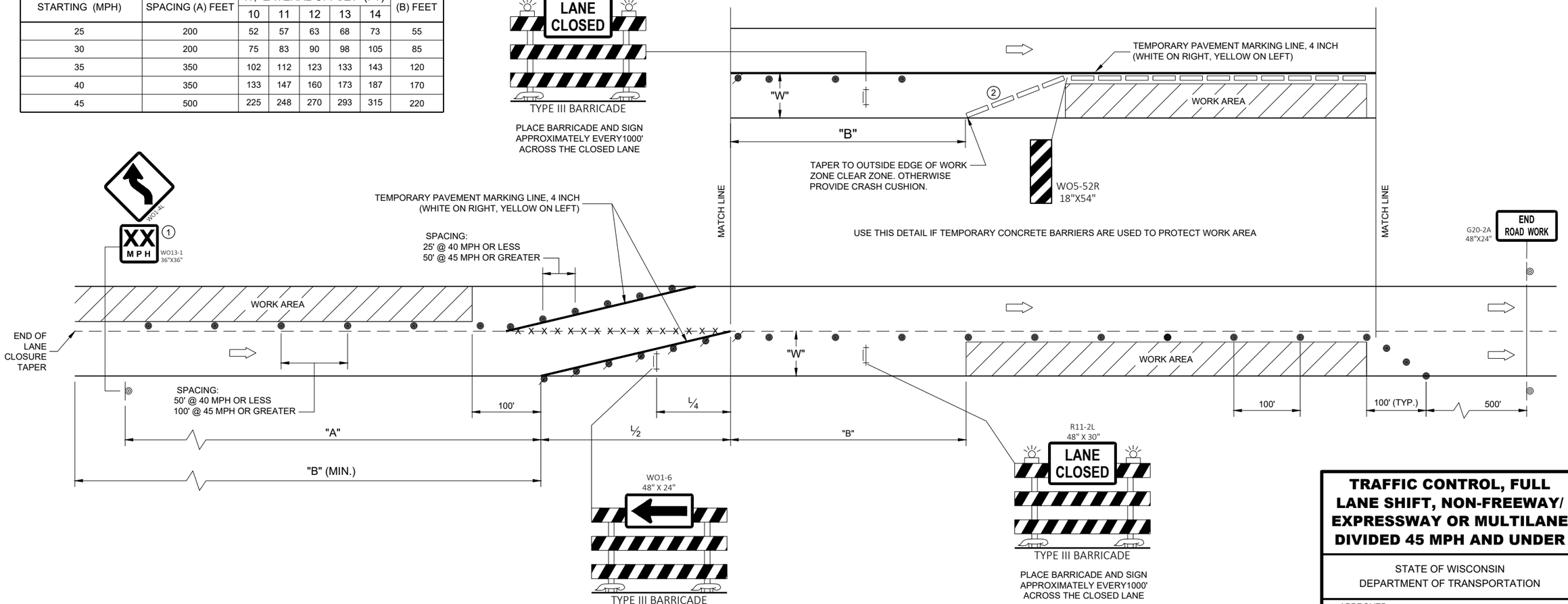
(1) USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
		10	11	12	13	14	
25	200	52	57	63	68	73	55
30	200	75	83	90	98	105	85
35	350	102	112	123	133	143	120
40	350	133	147	160	173	187	170
45	500	225	248	270	293	315	220



PLACE BARRICADE AND SIGN APPROXIMATELY EVERY1000' ACROSS THE CLOSED LANE



TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D40 - 04a

SDD 15D40 - 04a

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

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.

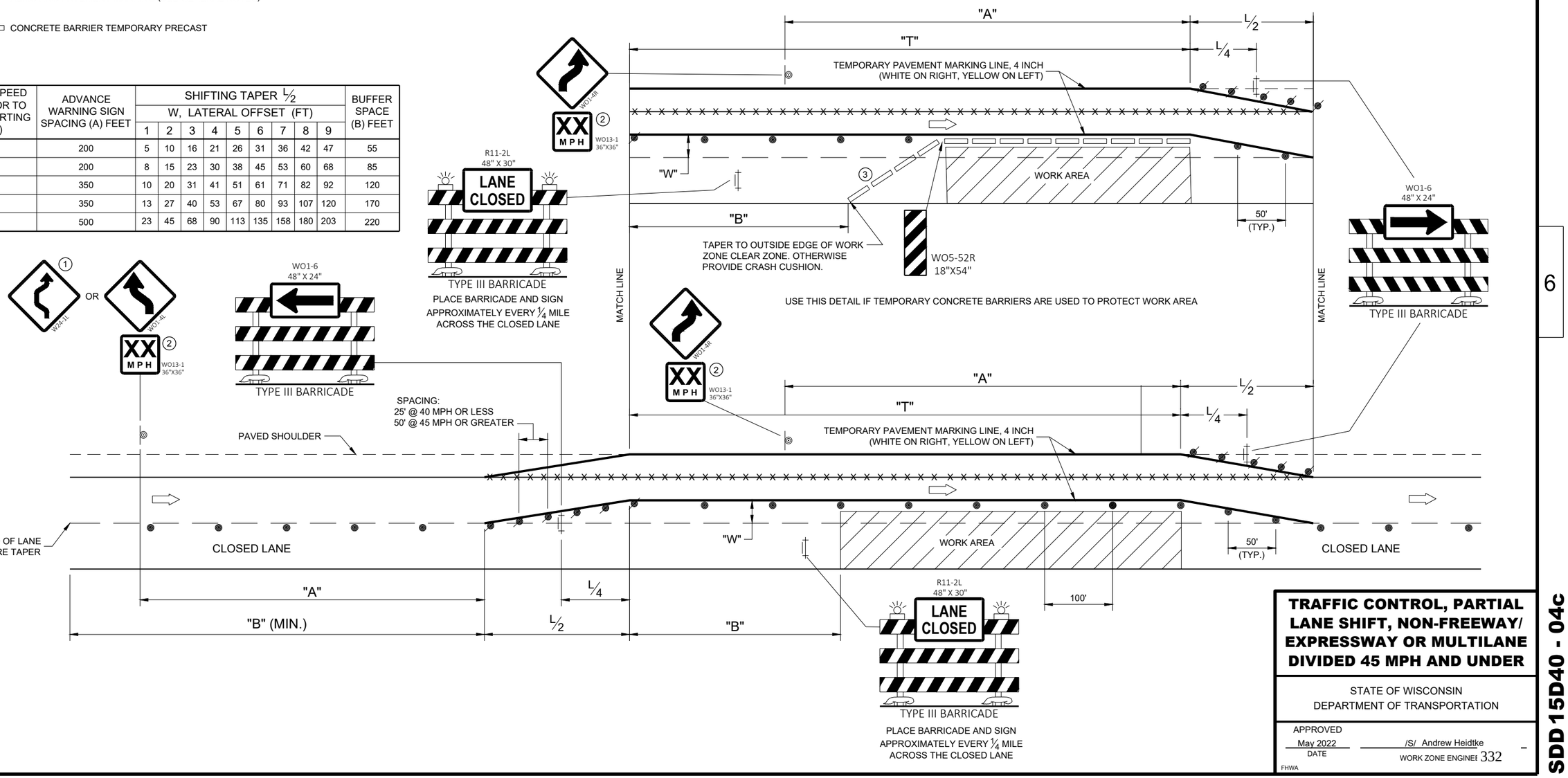
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP 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) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)									BUFFER SPACE (B) FEET
		1	2	3	4	5	6	7	8	9	
25	200	5	10	16	21	26	31	36	42	47	55
30	200	8	15	23	30	38	45	53	60	68	85
35	350	10	20	31	41	51	61	71	82	92	120
40	350	13	27	40	53	67	80	93	107	120	170
45	500	23	45	68	90	113	135	158	180	203	220



TRAFFIC CONTROL, PARTIAL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D40 - 04c

SDD 15D40 - 04c

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.

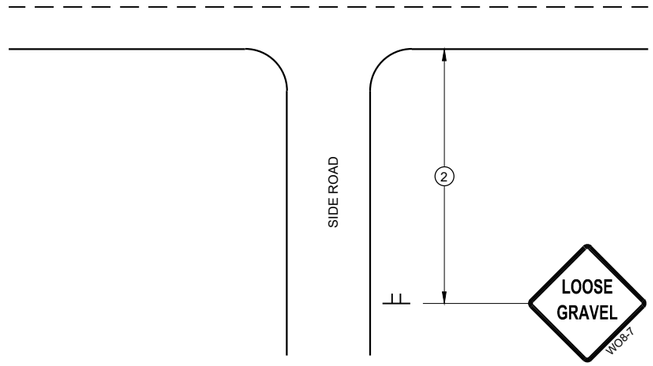
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

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

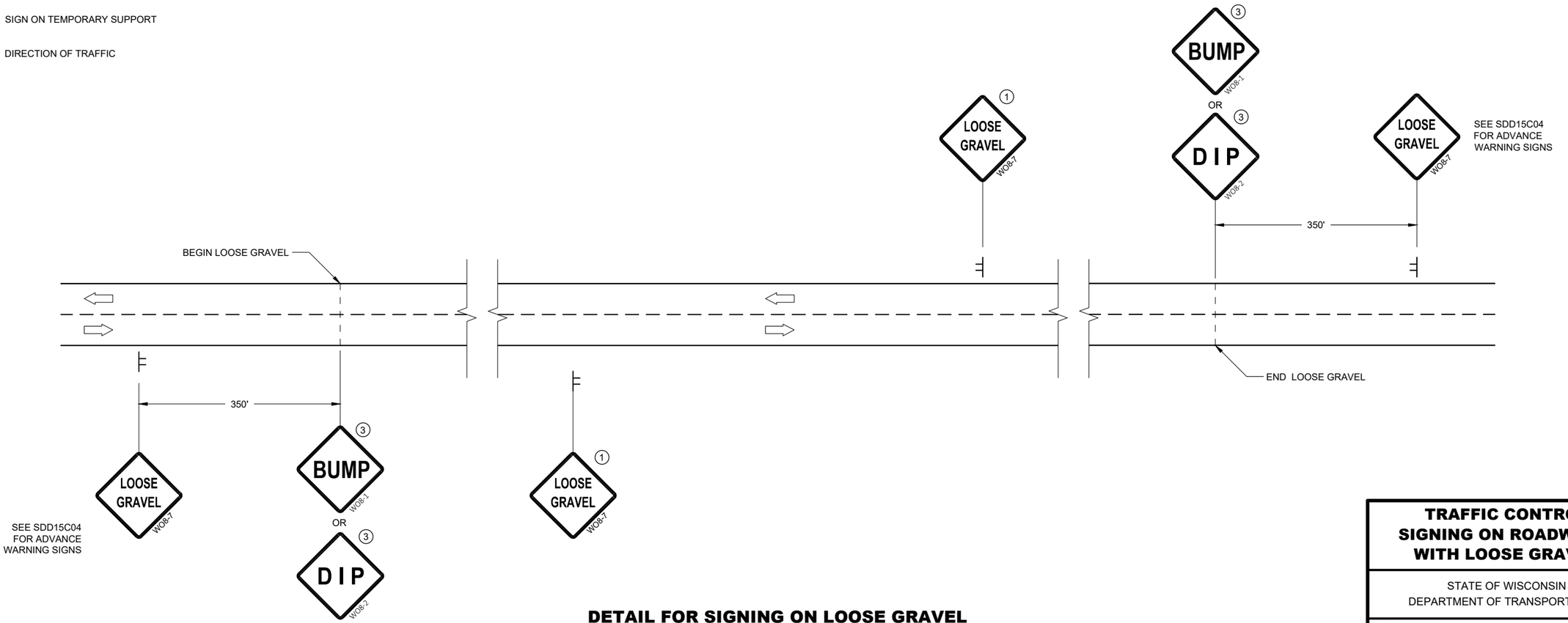
LEGEND

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

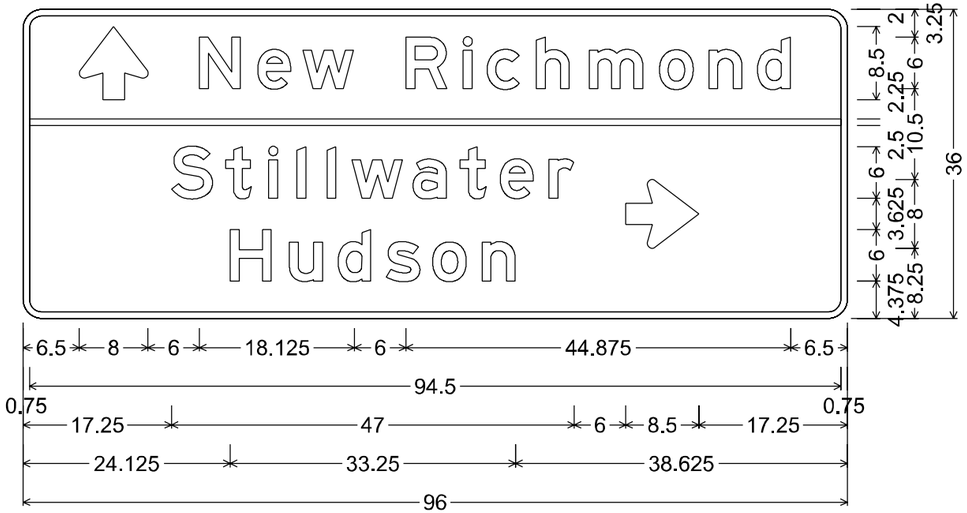
APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

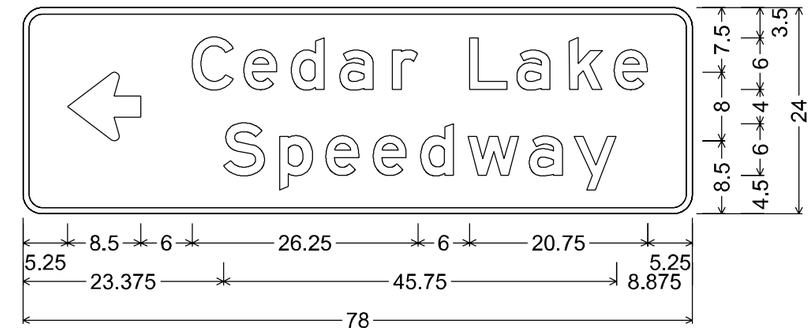
FHWA

6

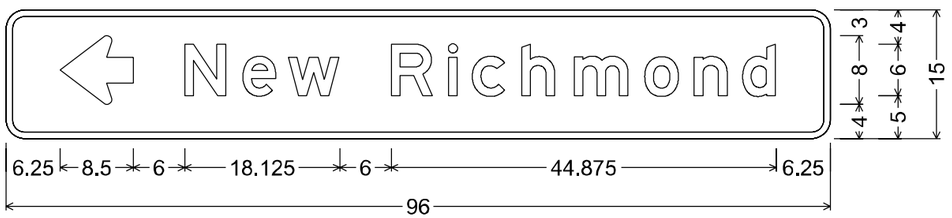
SDD 15D45 - 03



D1-3; 2.250" Radius, 0.750" Border



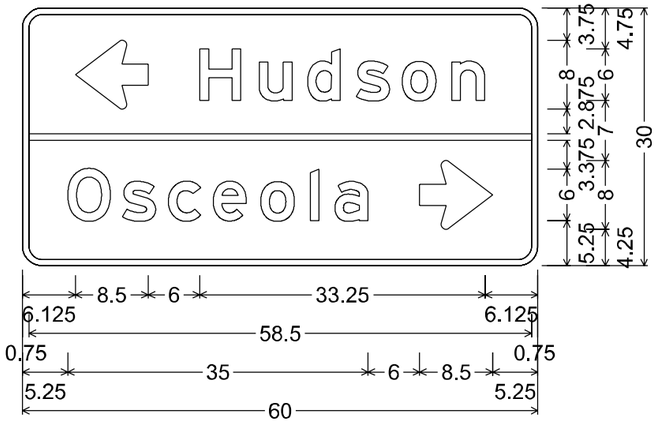
D1-2; 2.250" Radius, 0.750" Border



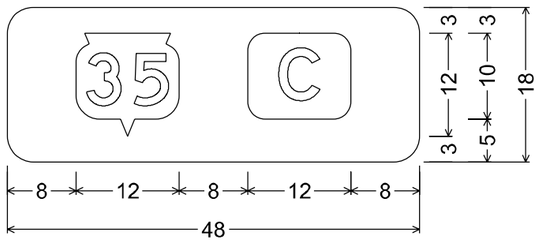
D1-1; 2.250" Radius, 0.750" Border

NOTES

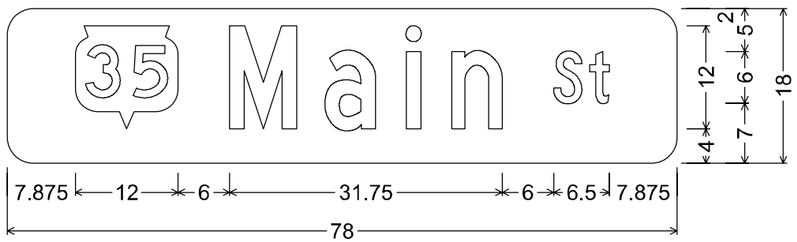
1. Signs are Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E or as noted



D1-2; 2.250" Radius, 0.750" Border

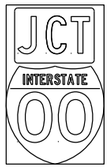


M1-94S; 3.000" Radius, No border

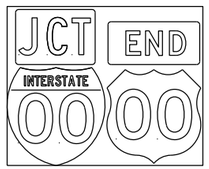


M1-94S; 3.000" Radius, No border
"Main", C; "St", C

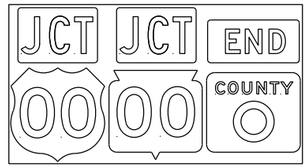
TYPICAL ASSEMBLIES



J1-1



J1-2



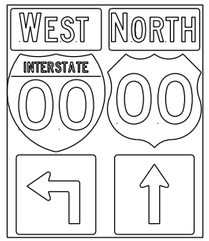
J1-3



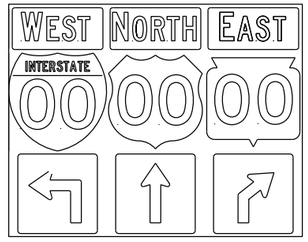
JR1-1



J2-1



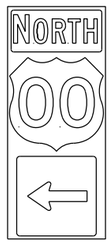
J2-2



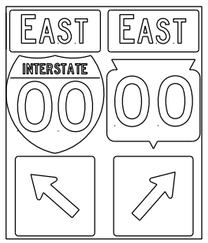
J2-3



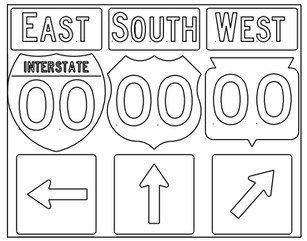
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



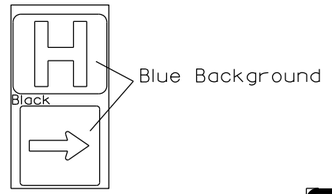
J3-1



J3-2



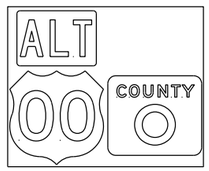
J3-3



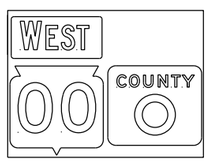
JH-1



J4-1



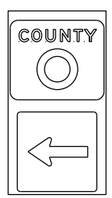
J4-2



J4-2



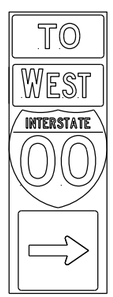
J12-1



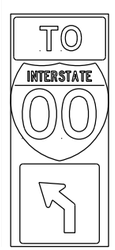
J13-1



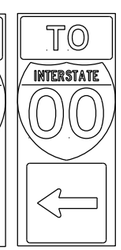
J32-1



J33-1



J22-1



J23-1



JR13-1

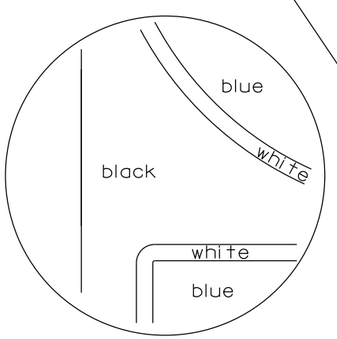


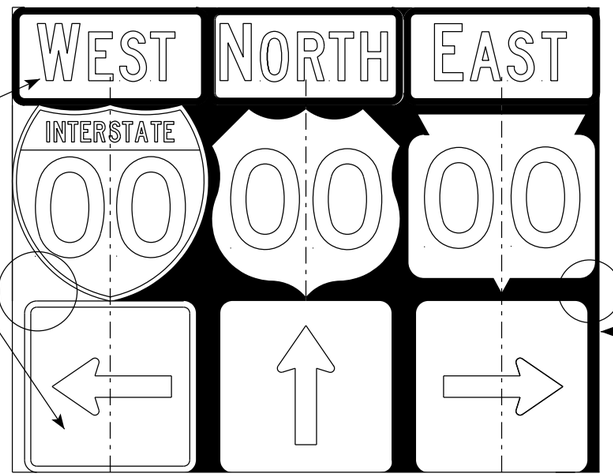
JR23-1

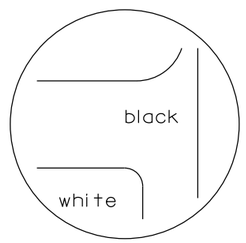


JR99-1

blue background
with interstate







black background

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

PROJECT NO:

SHEET NO: 335 E

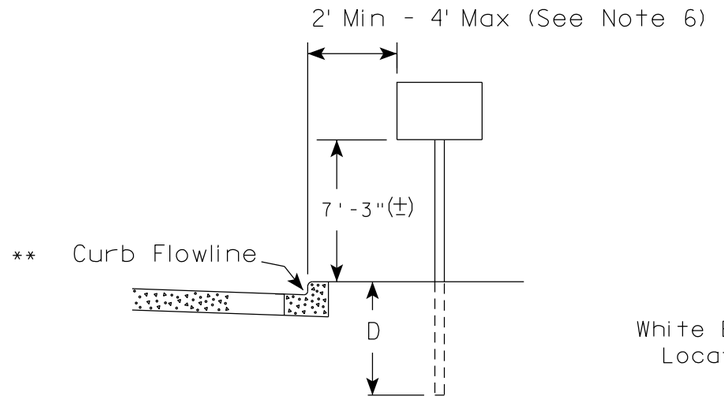
FILE NAME : C:\CAEfiles\Projects\tr_stdplate_A21S.dgn PLOT DATE : 18-MAR 2021 1:37 PLOT BY : mscj9h PLOT NAME :

WISDOT/CADDS SHEET 42

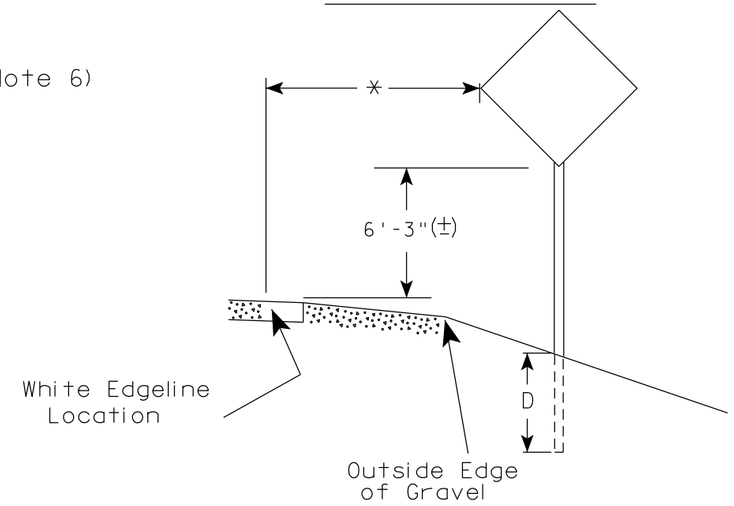
7

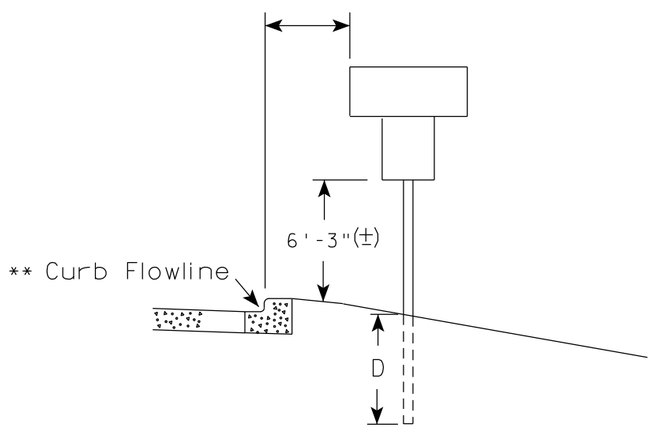
7

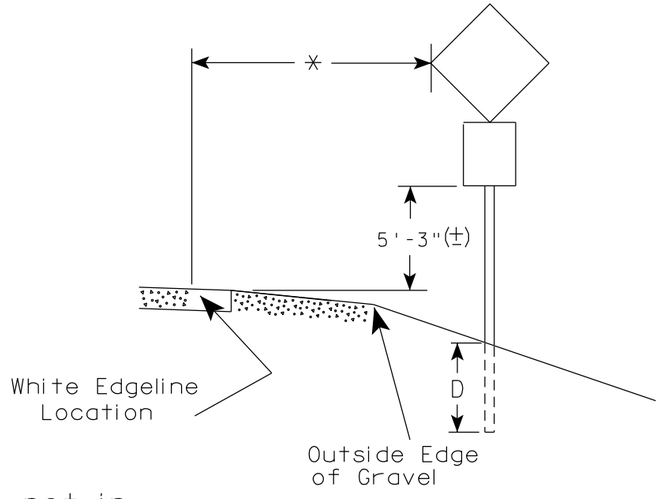
URBAN AREA



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.

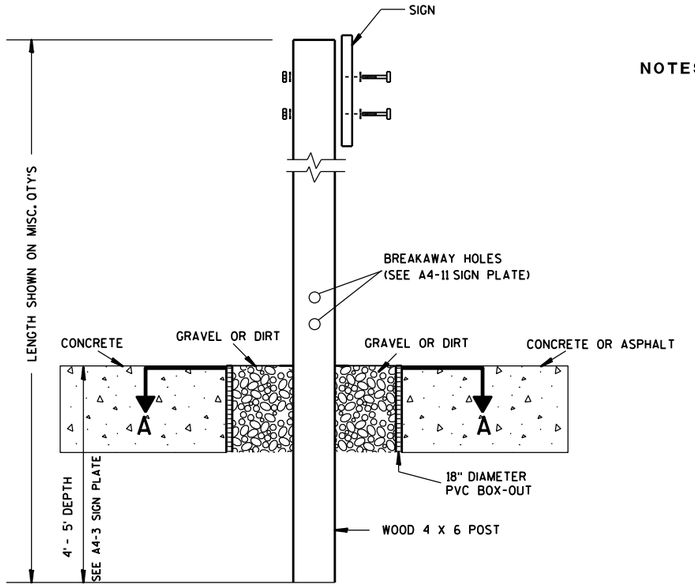
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

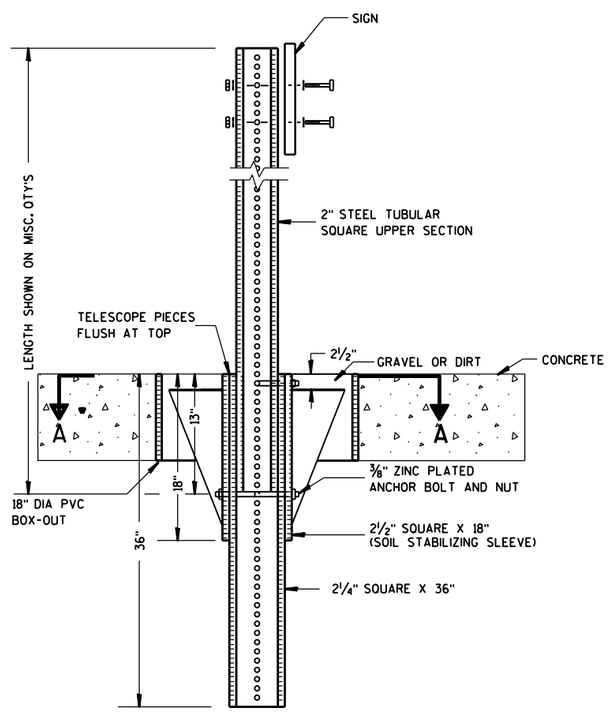
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 336	E



ELEVATION VIEW

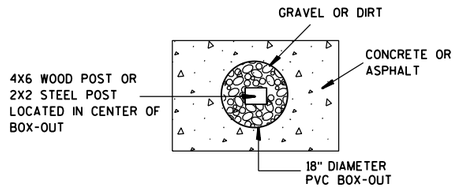
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

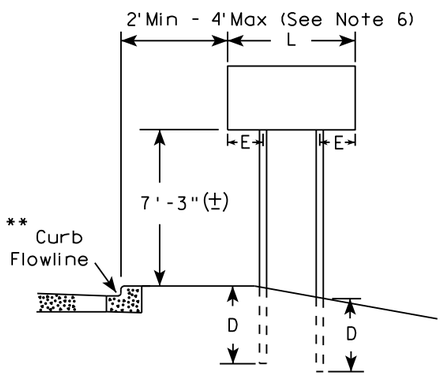
APPROVED Matthew R Rauch
for State Traffic Engineer

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

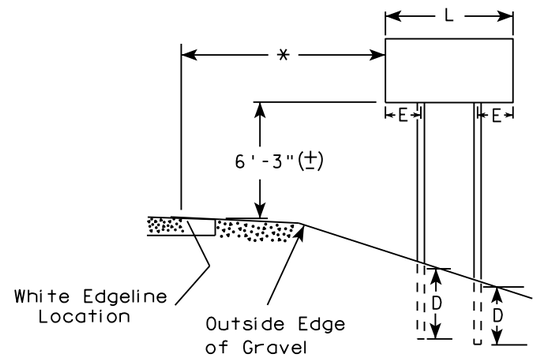
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

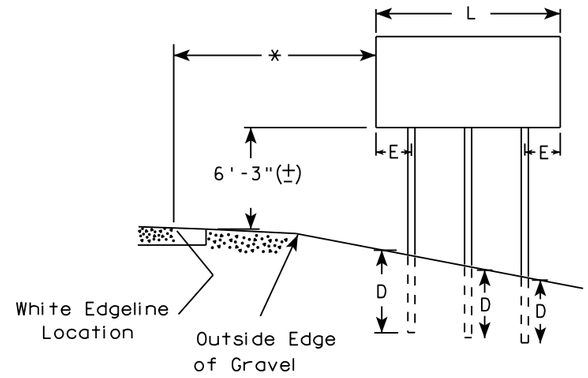
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

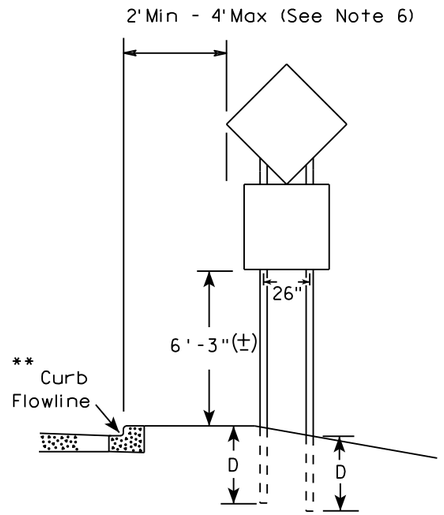
URBAN AREA



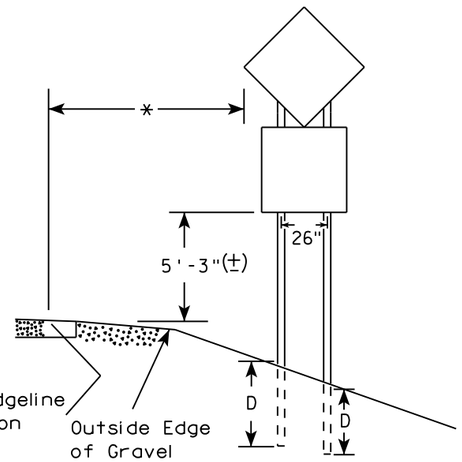
RURAL AREA (See Note 3)







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'

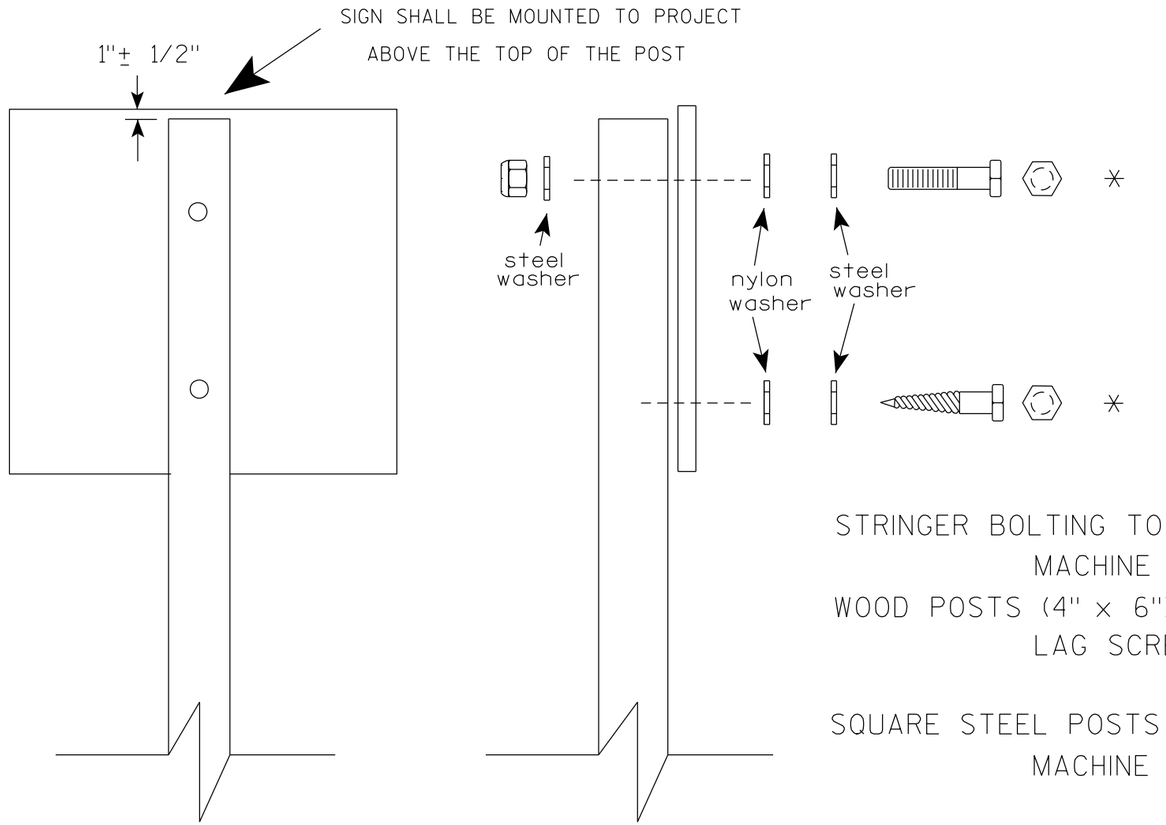
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 338	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

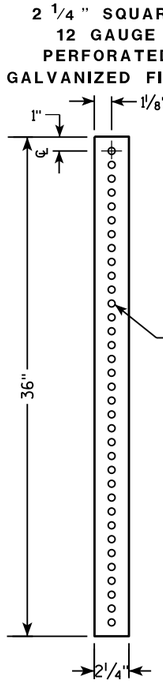
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

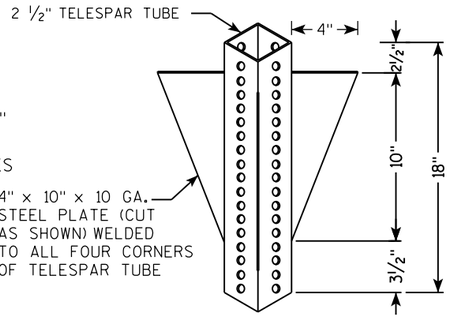
SHEET NO: 339 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

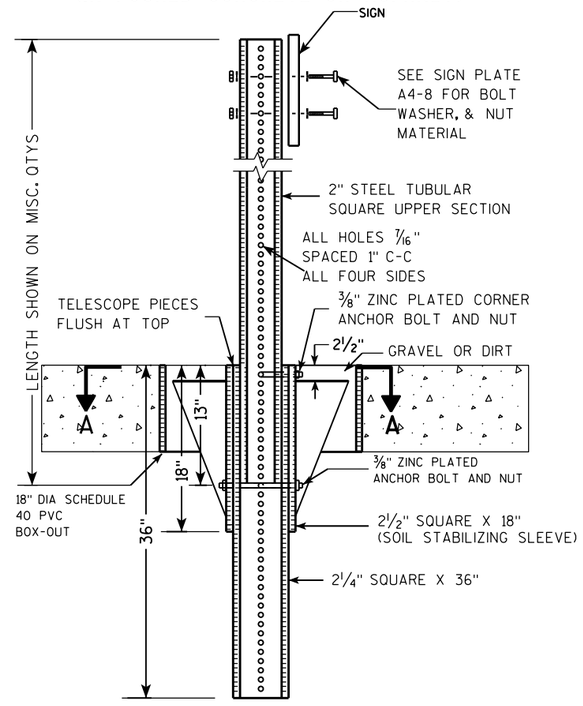
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



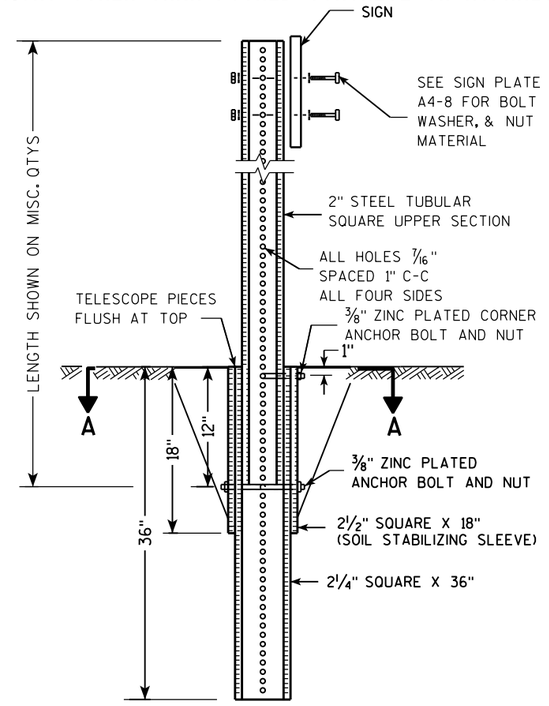
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

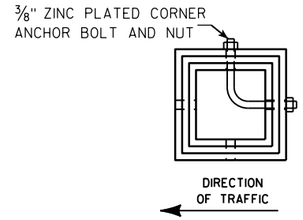


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

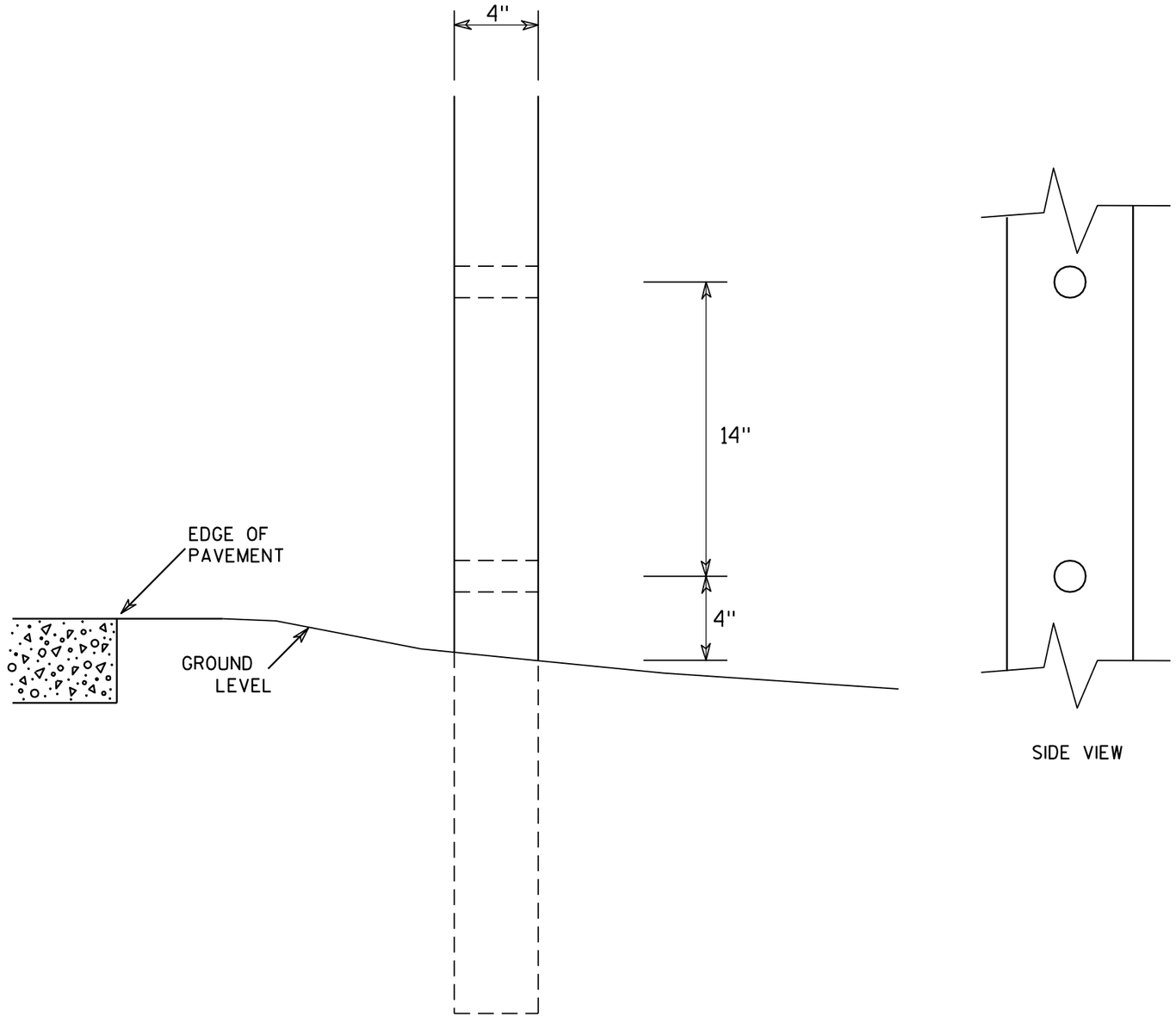
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 340 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

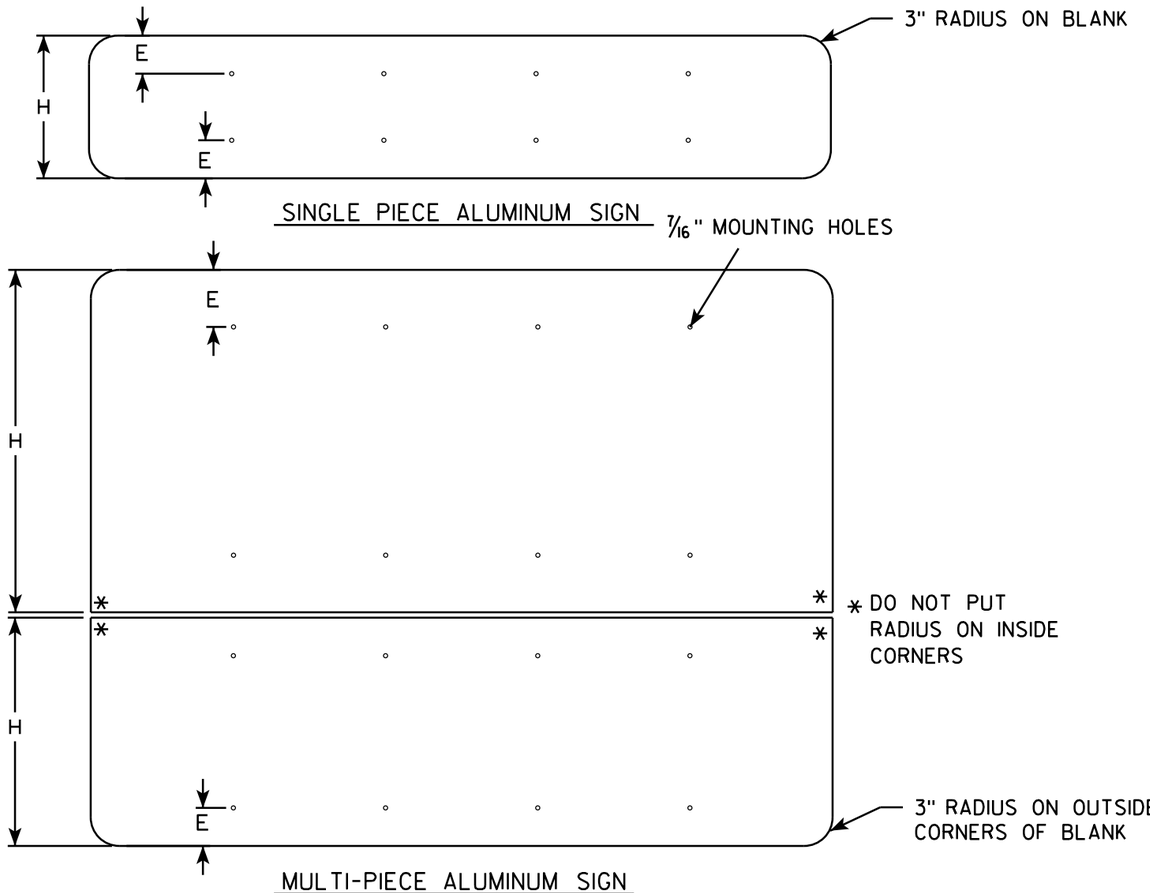
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

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

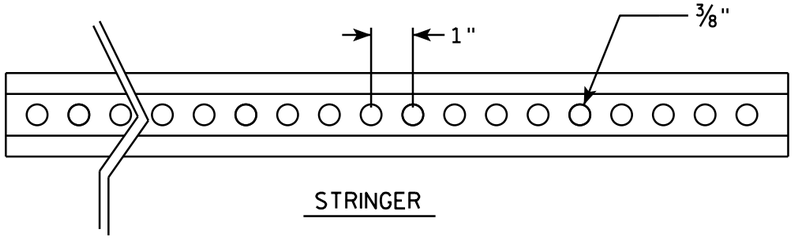
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 341	E



GENERAL NOTES

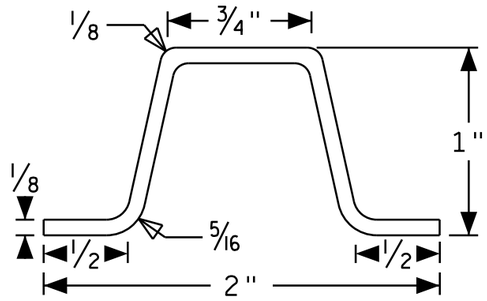
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

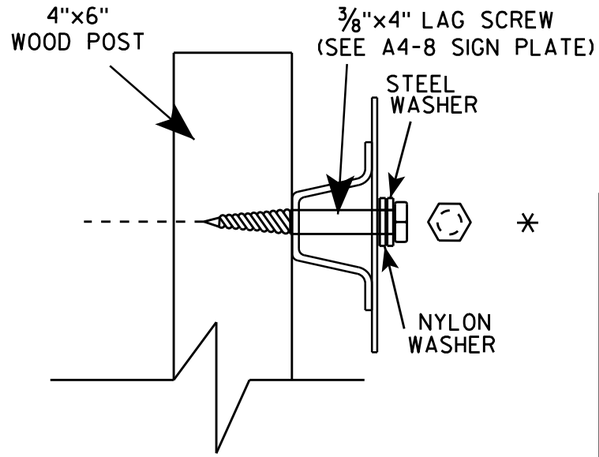


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

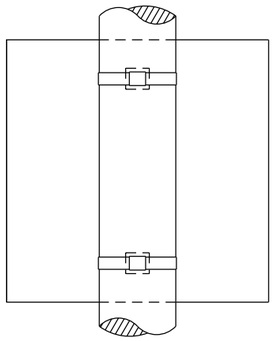
DATE 4/26/16 PLATE NO A4-18.1

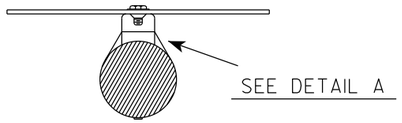
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

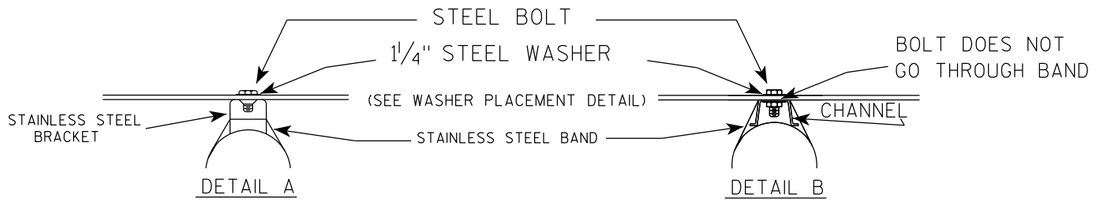
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

SINGLE SIGN



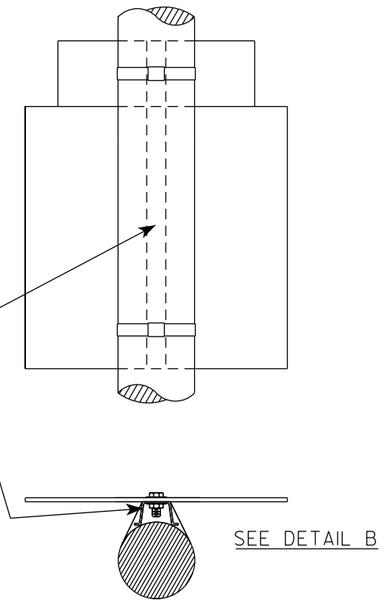




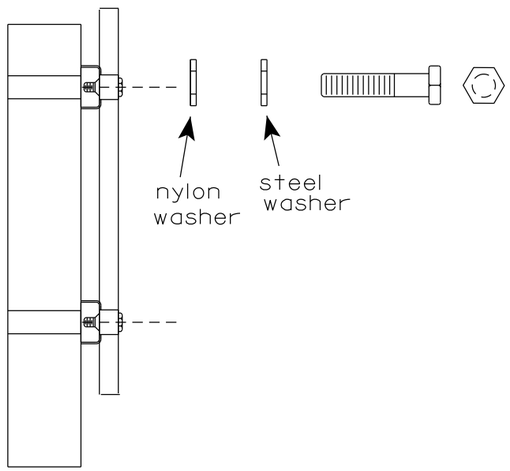
GENERAL NOTES

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



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

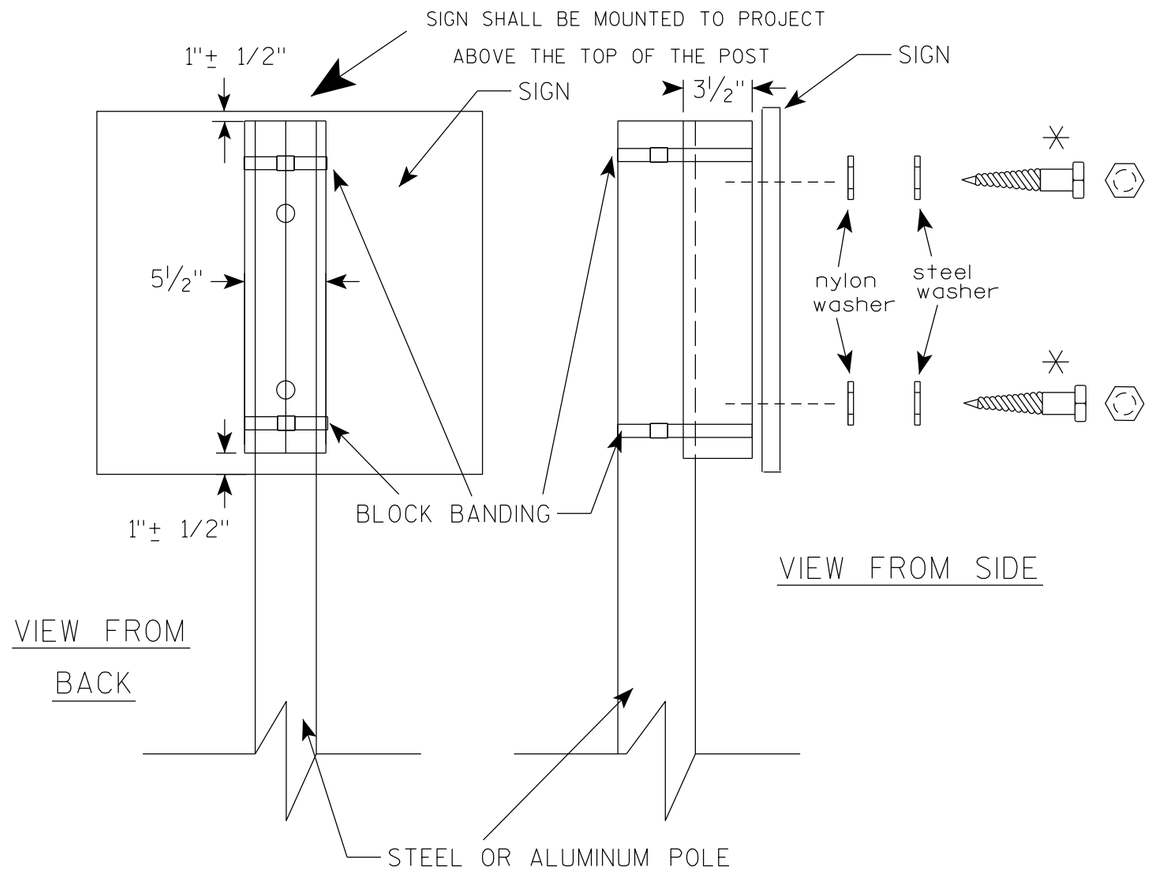
DATE 6/10/19 PLATE NO. A5-9.4

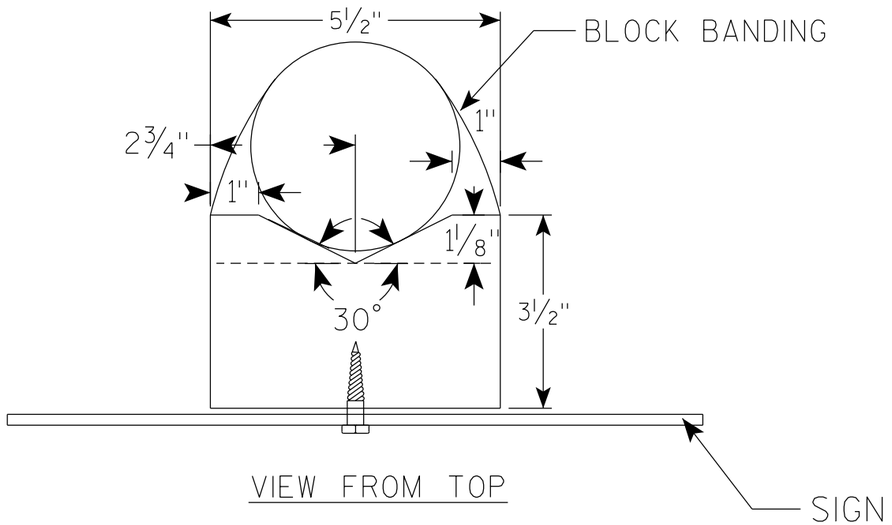
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 343	E

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)

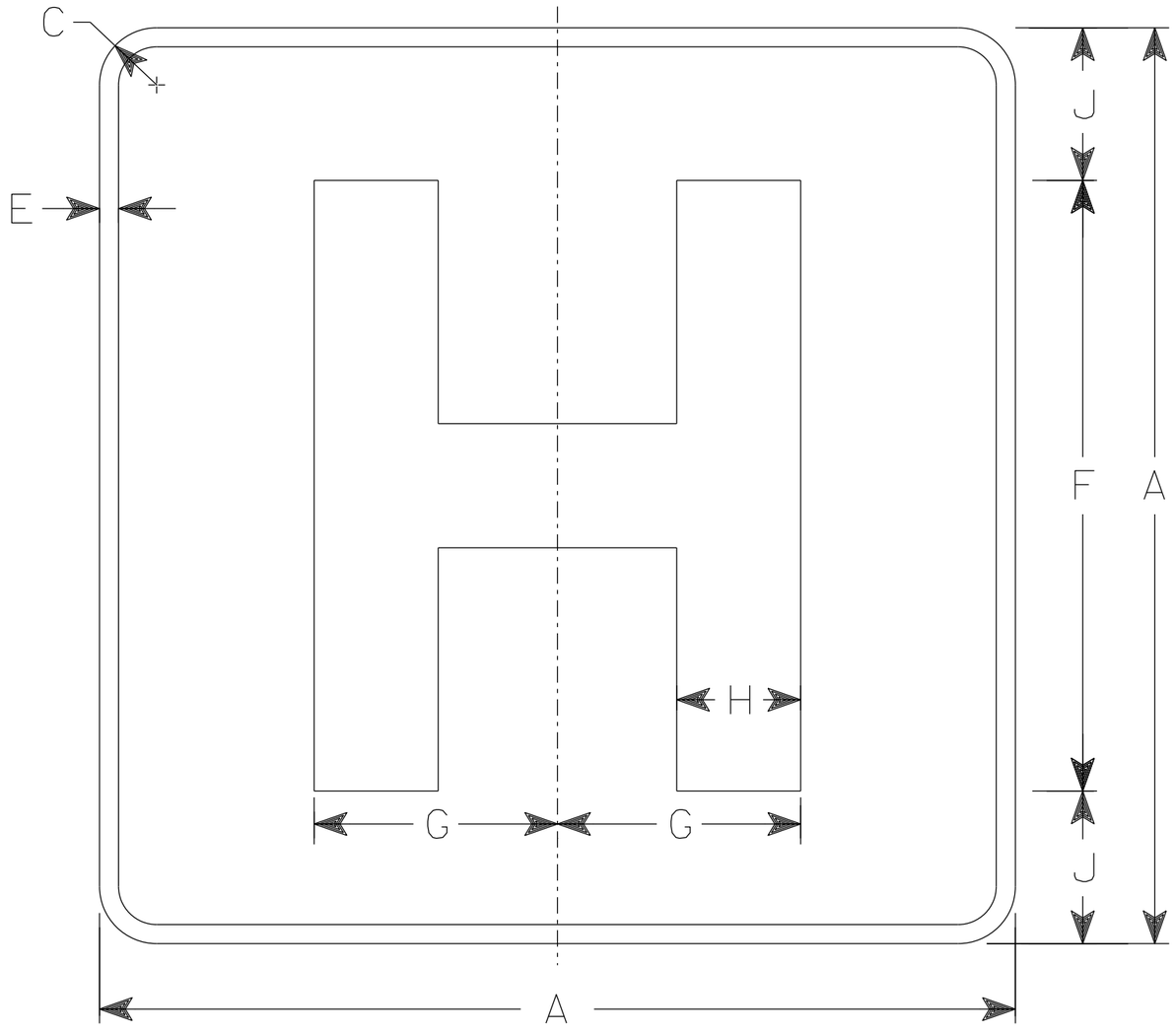
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 344 E



D9-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Blue
   Message - White
3. Message Series - E Modified
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	18		1 1/8		1/2	12	4 3/4	2 3/8		3																	2.25
2S	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
2M	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

STANDARD SIGN
D9-2

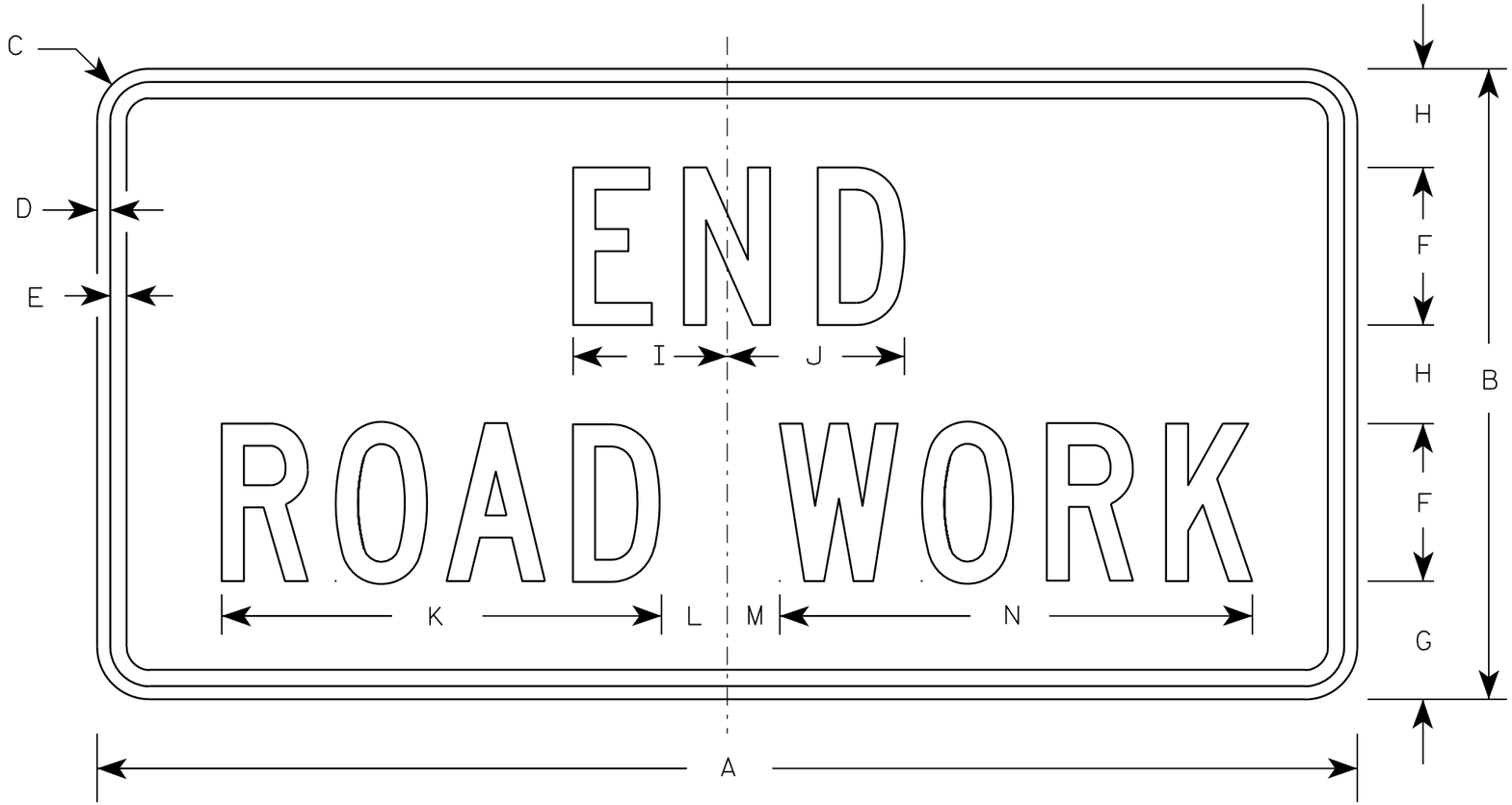
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/28/21 PLATE NO. D9-2.5

PROJECT NO:

SHEET NO: 345 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

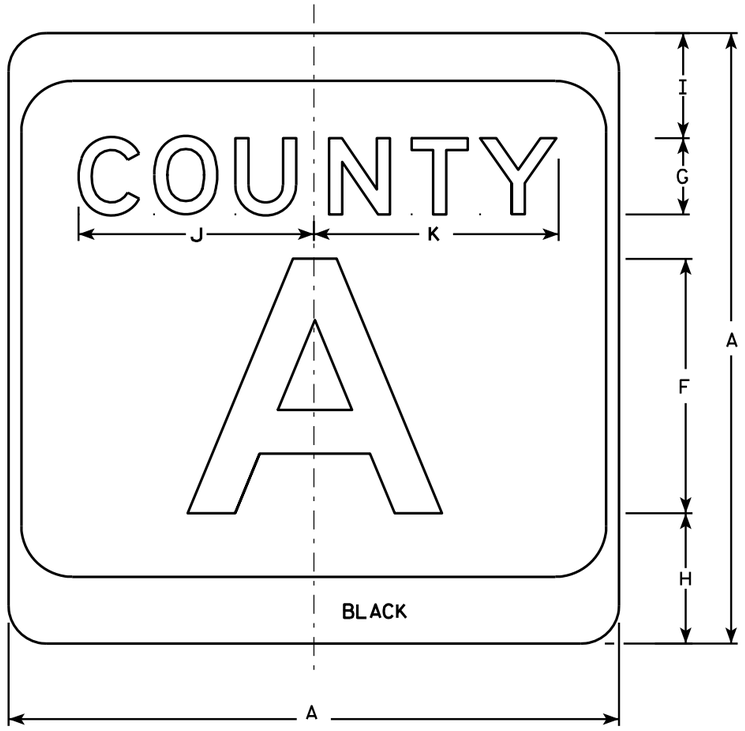
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

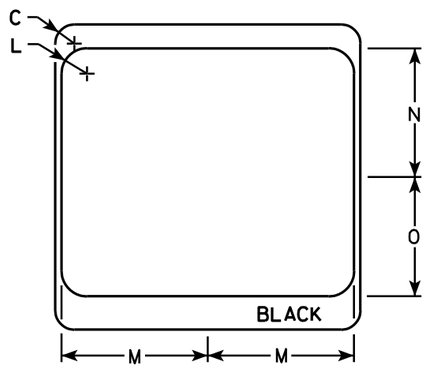
APPROVED Matthew R Rauch
for State Traffic Engineer

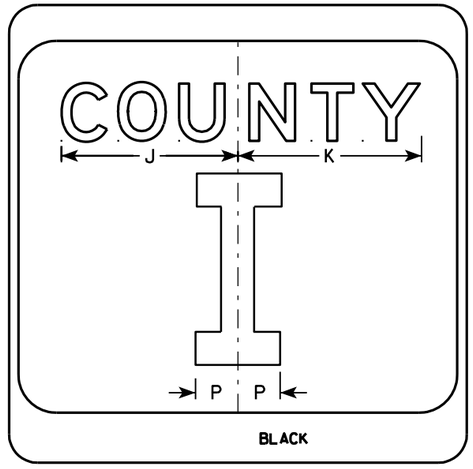
DATE 9/30/09 PLATE NO. G20-2A.8

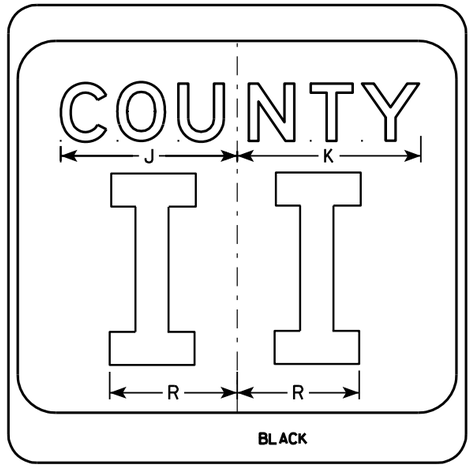
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 346	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

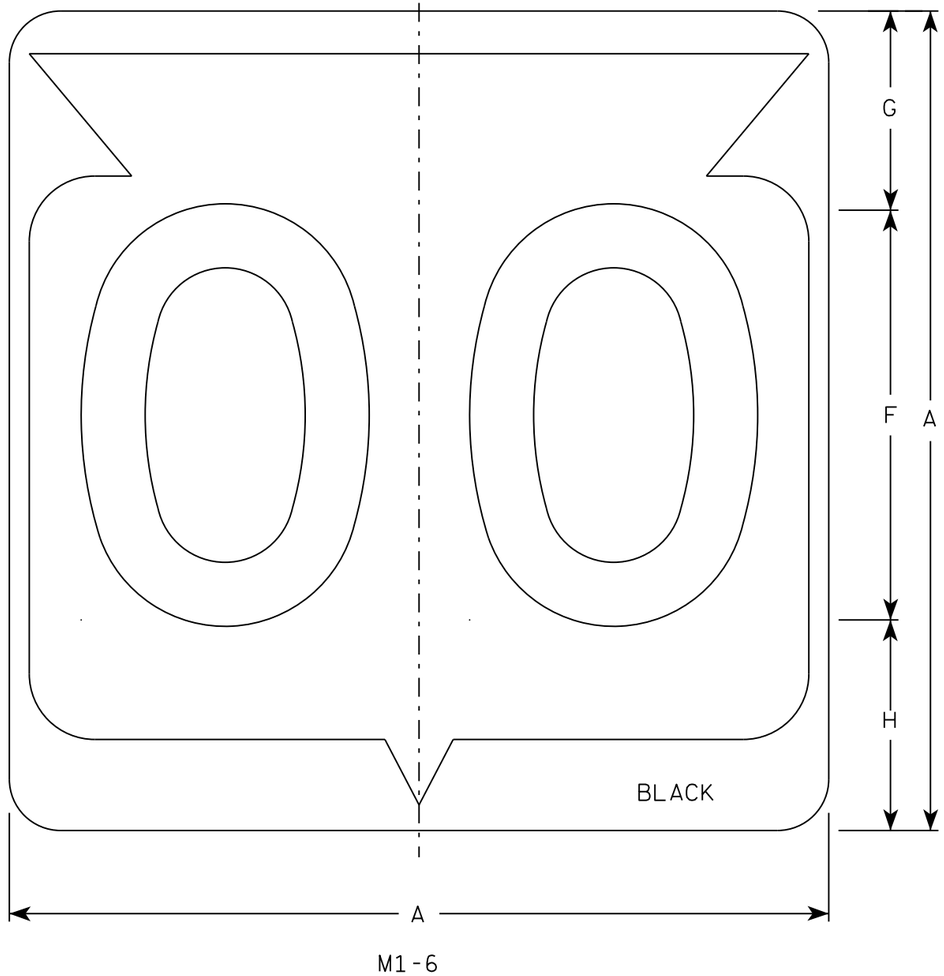
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

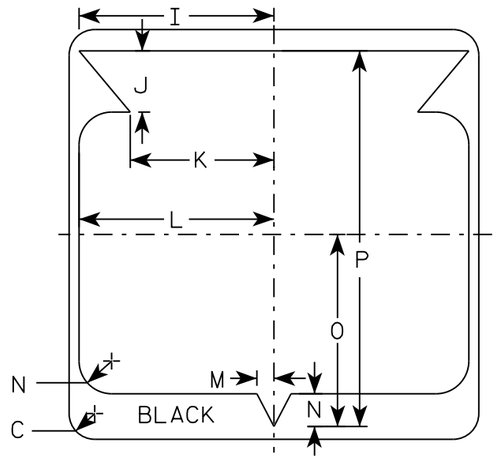
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 347 | E



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

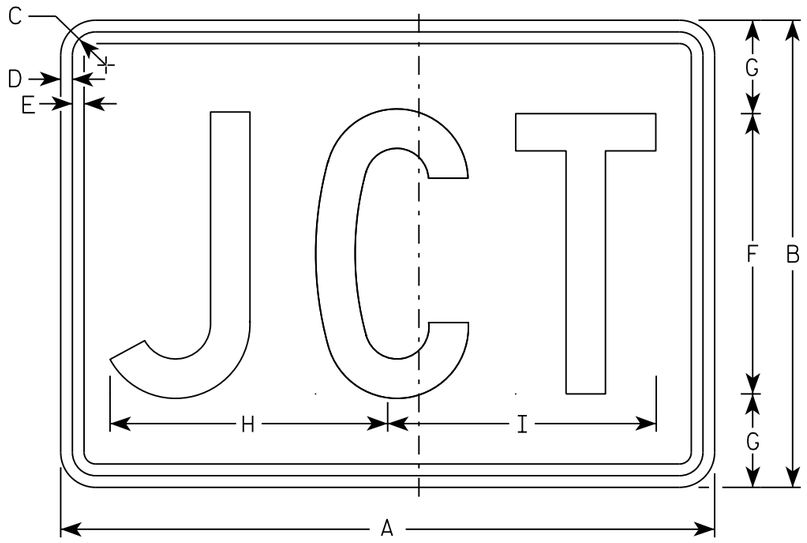
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

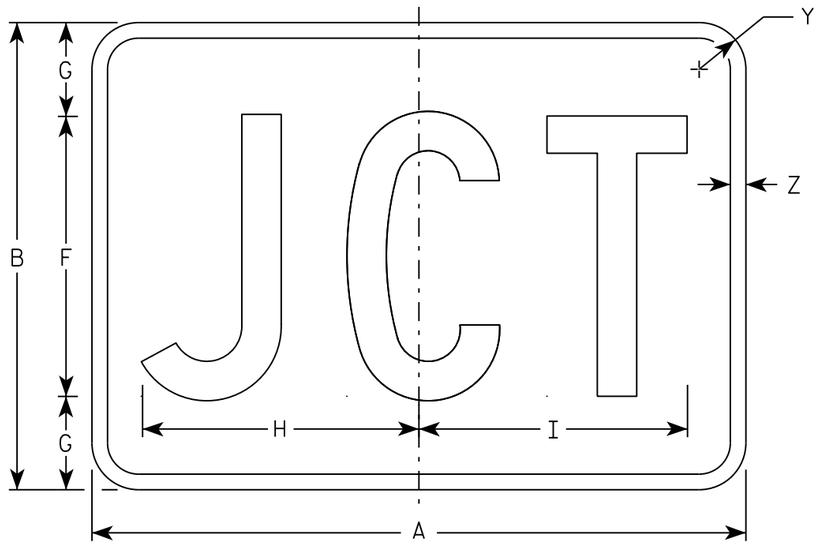
APPROVED Matthew R Rauch for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 348	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

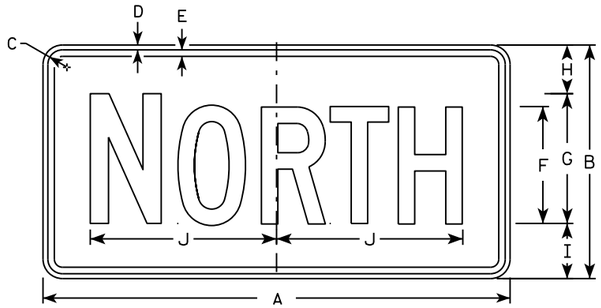
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

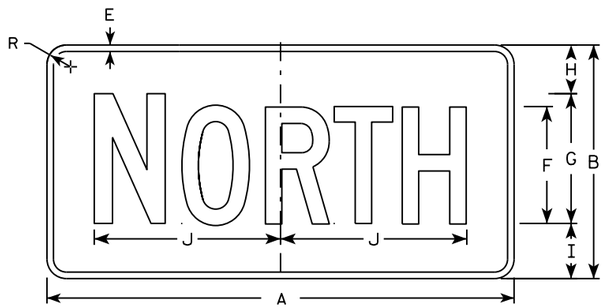
DATE 10/15/15 PLATE 349 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



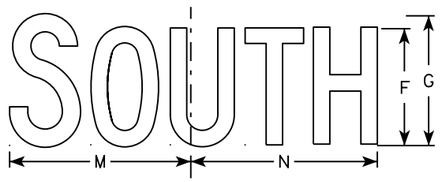
MB3-1
MK3-1
MN3-1



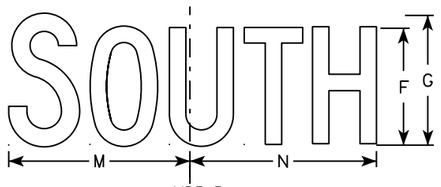
M3-2
MM3-2
MP3-2



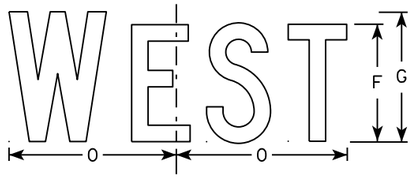
MB3-2
MK3-2
MN3-2



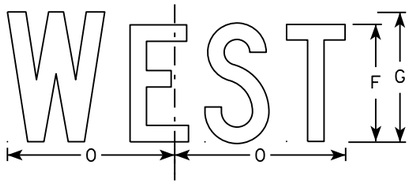
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

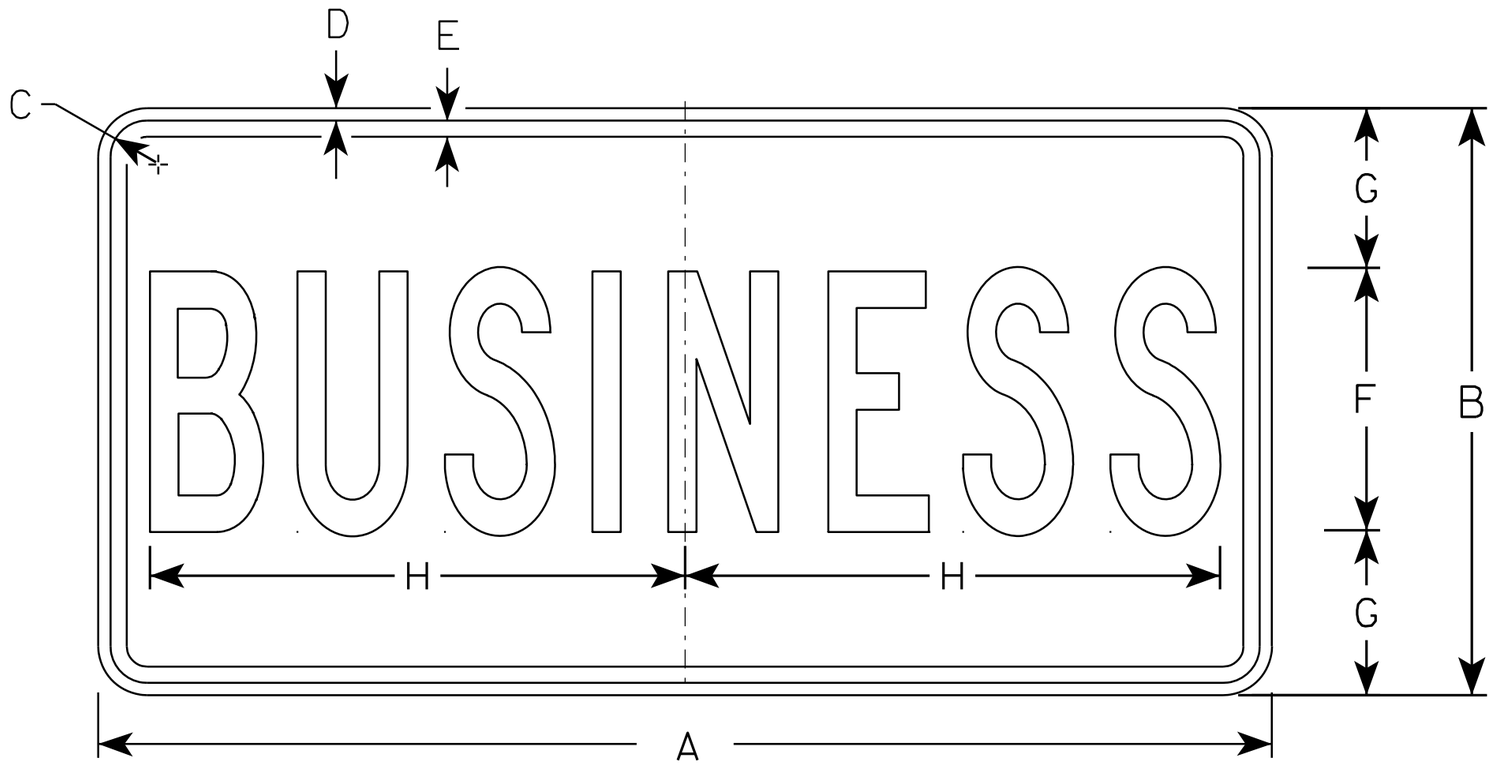
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-3

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White - See Note 5
   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.
5. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	5	3 1/2	9 5/8																			2.0
3	36	18	1 1/8	3/8	1/2	8	5	16 3/8																			4.5
4																											
5																											

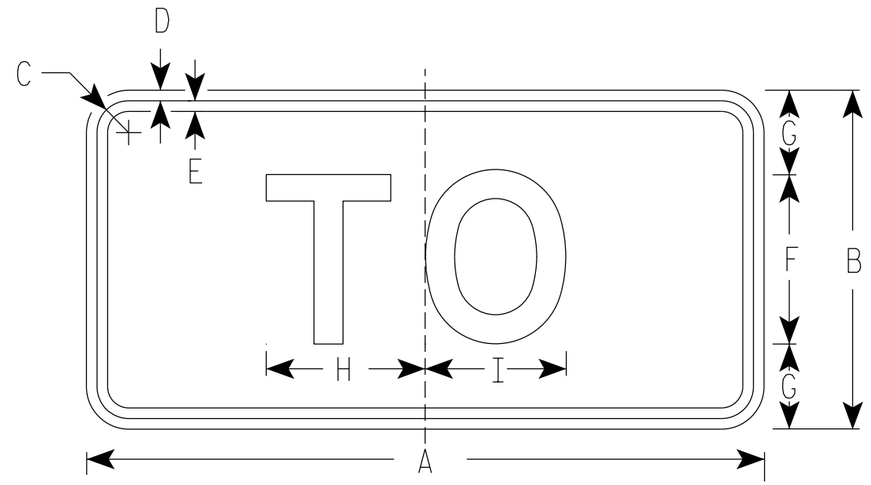
STANDARD SIGN
M4-3

WISCONSIN DEPT OF TRANSPORTATION

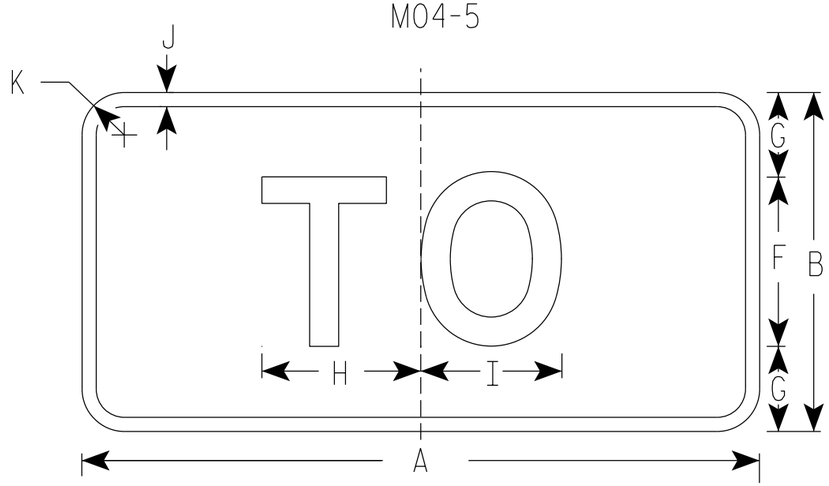
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-3.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 351 | E



M4-5
MM4-5
MP4-5
MO4-5



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

   MO4-5 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

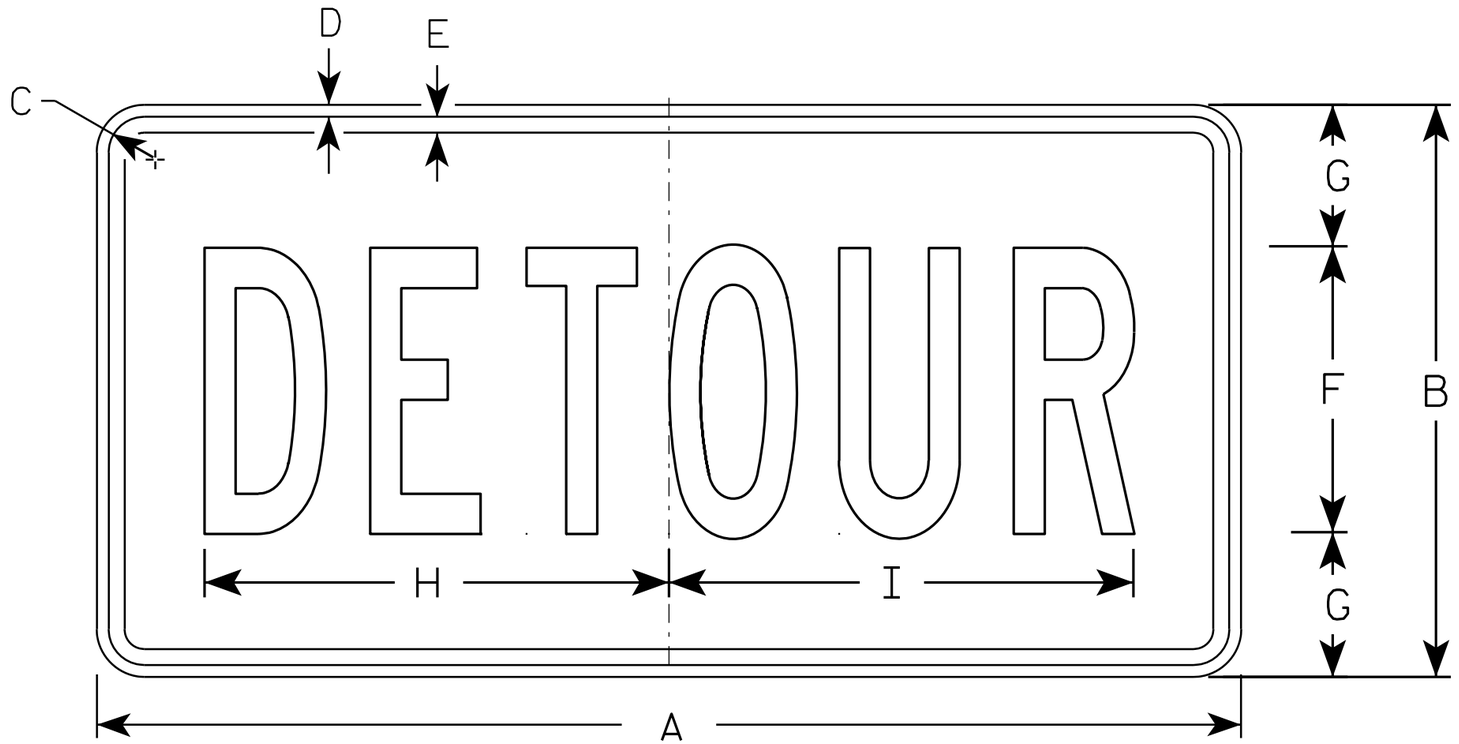
STANDARD SIGN
M4-5

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: 352 | E



M4-8

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	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

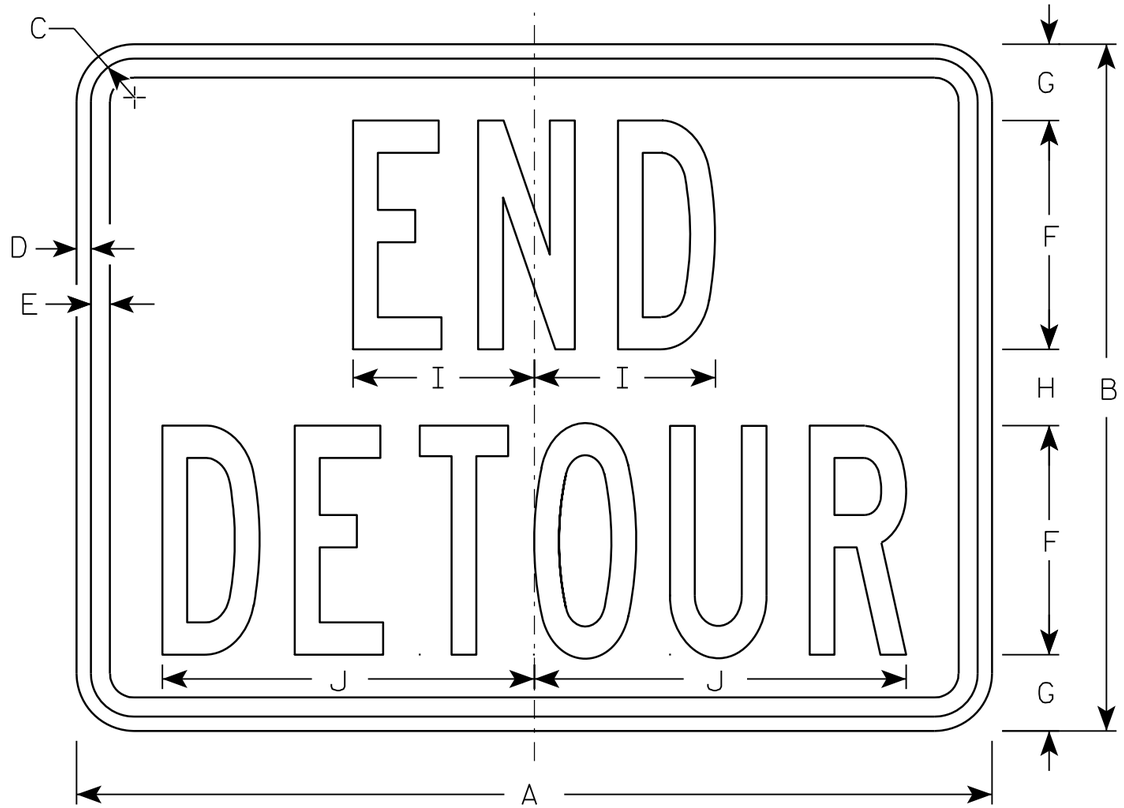
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 353	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																											

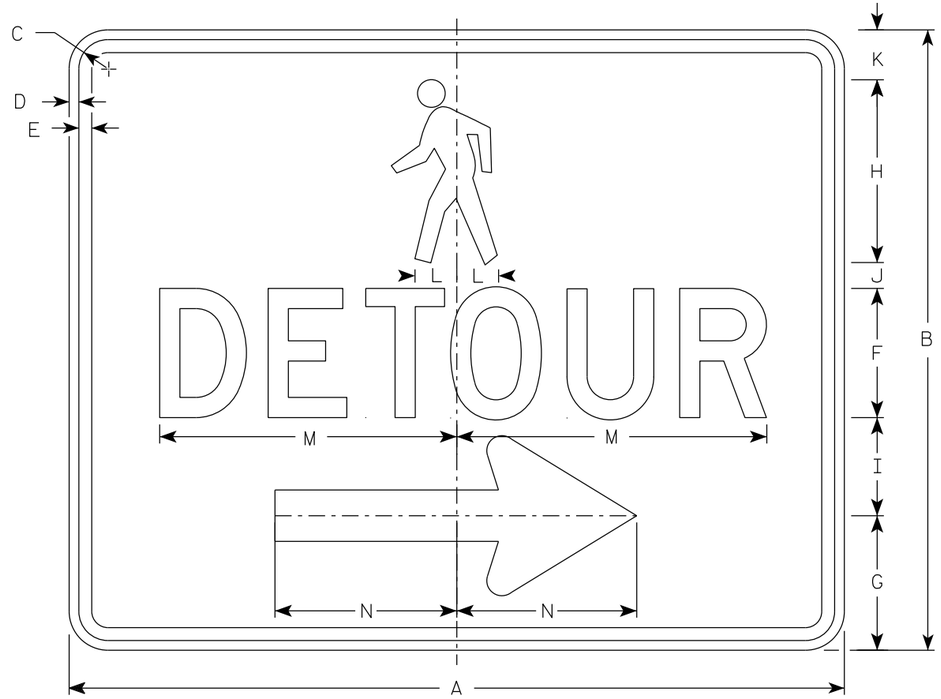
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

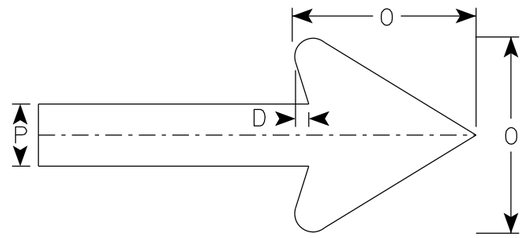
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 354	E



M4-9BR

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9BL is the same as M4-9BR except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.00
3																											
4																											
5																											

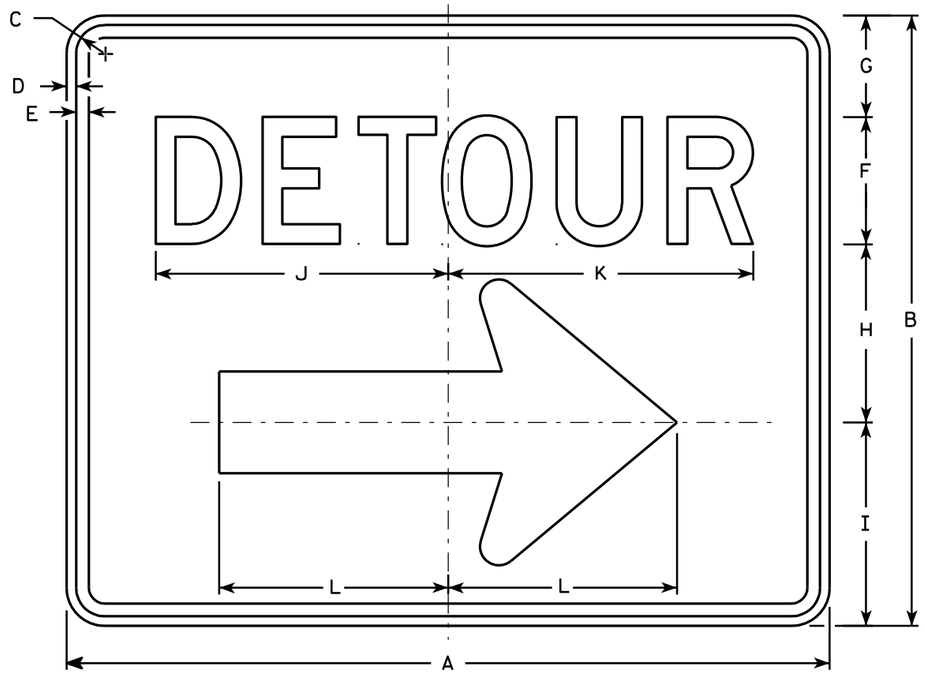
STANDARD SIGN
M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/1/19 PLATE NO. M4-9B.2

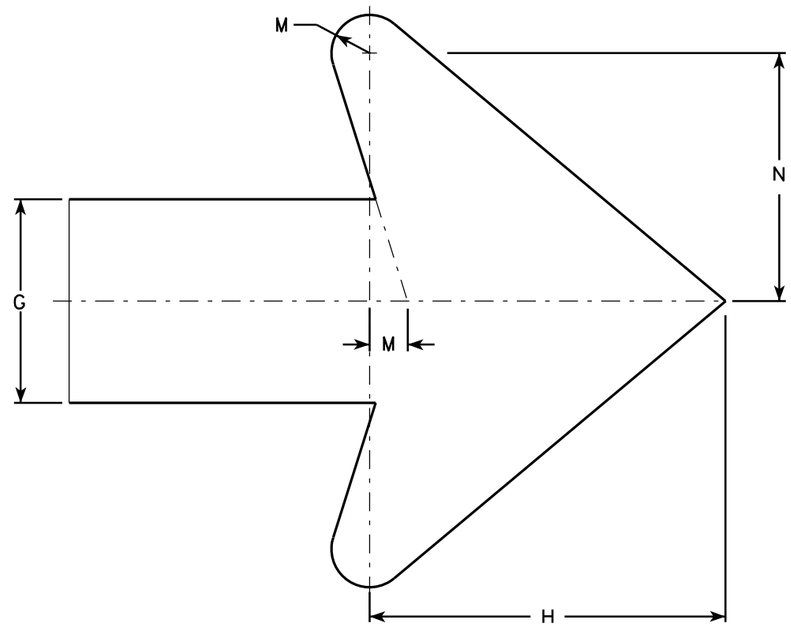
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 355 | E



M4-9R

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 - 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. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

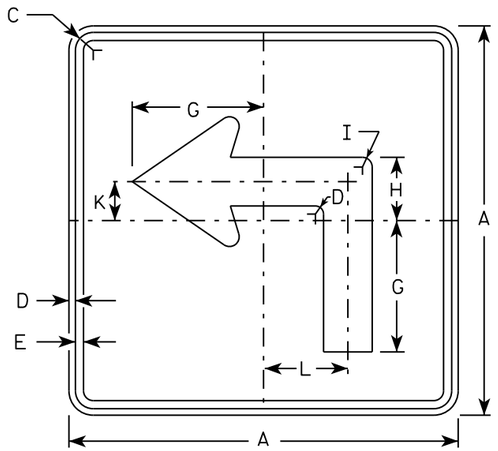
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

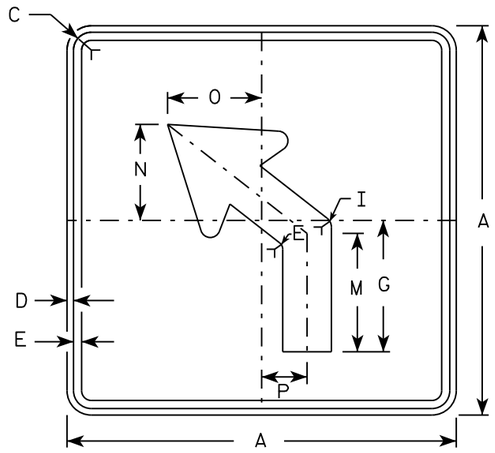
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

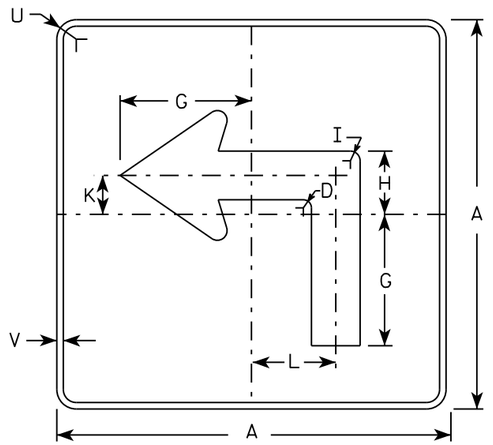
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 356 | E



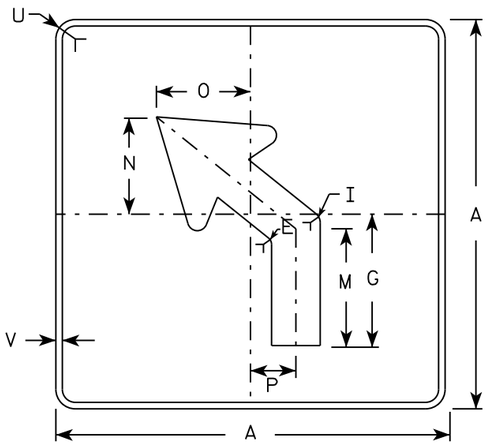
M5-1L
MM5-1L
MO5-1L
MP5-1L



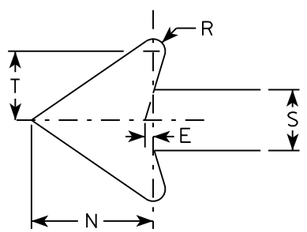
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

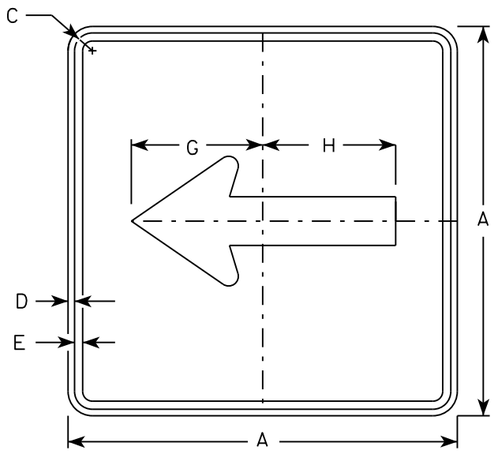
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

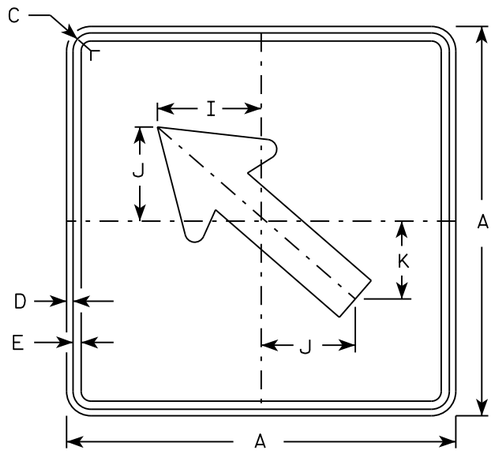
DATE 10/15/15 PLATE NO. M5-1.13

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



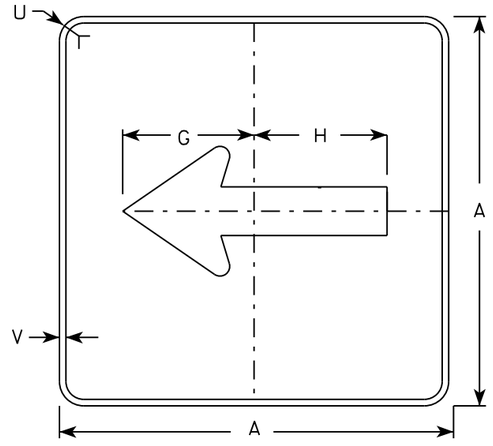
M6-1
MM6-1
MO6-1
MP6-1



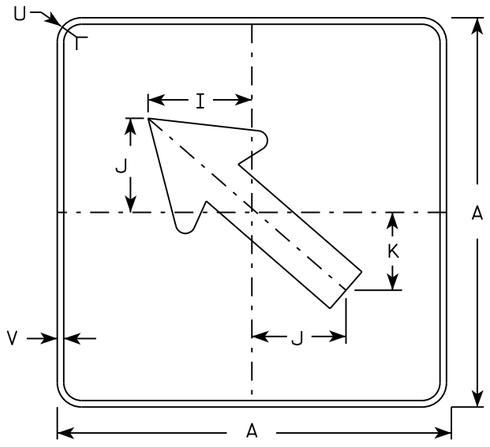
M6-2
MM6-2
MO6-2
MP6-2

NOTES

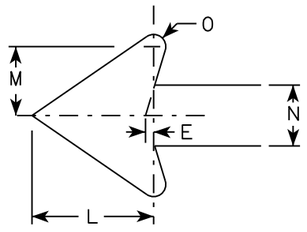
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

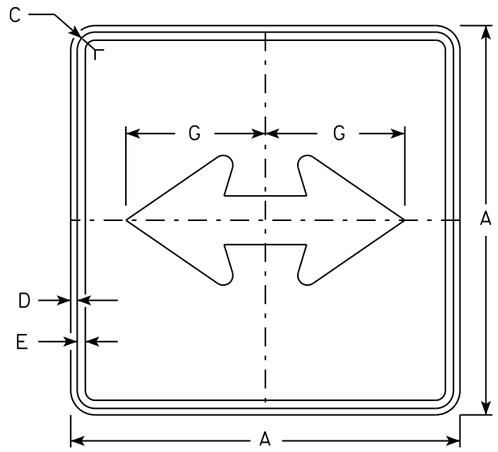
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

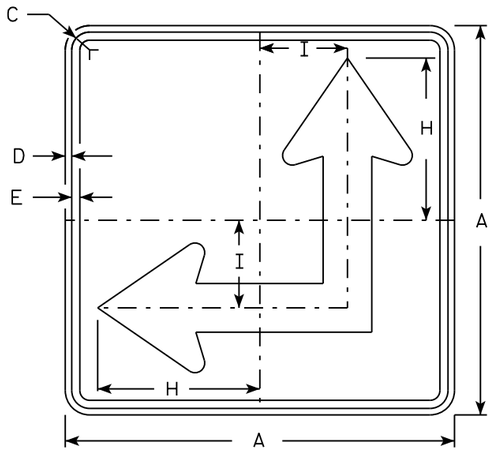
DATE 10/15/15 PLATE 358 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



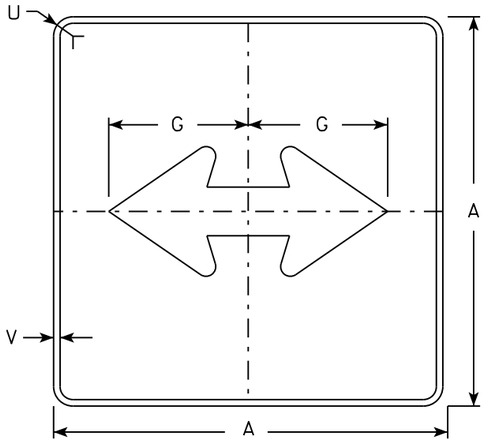
M6-4
MM6-4
MO6-4
MP6-4



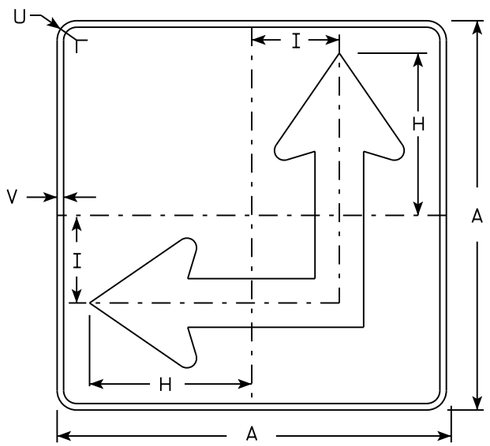
M6-6
MM6-6
MO6-6
MP6-6

NOTES

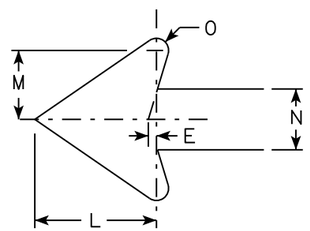
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



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	8 3/4	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	12 1/2	6 3/4			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	12 1/2	6 3/4			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	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

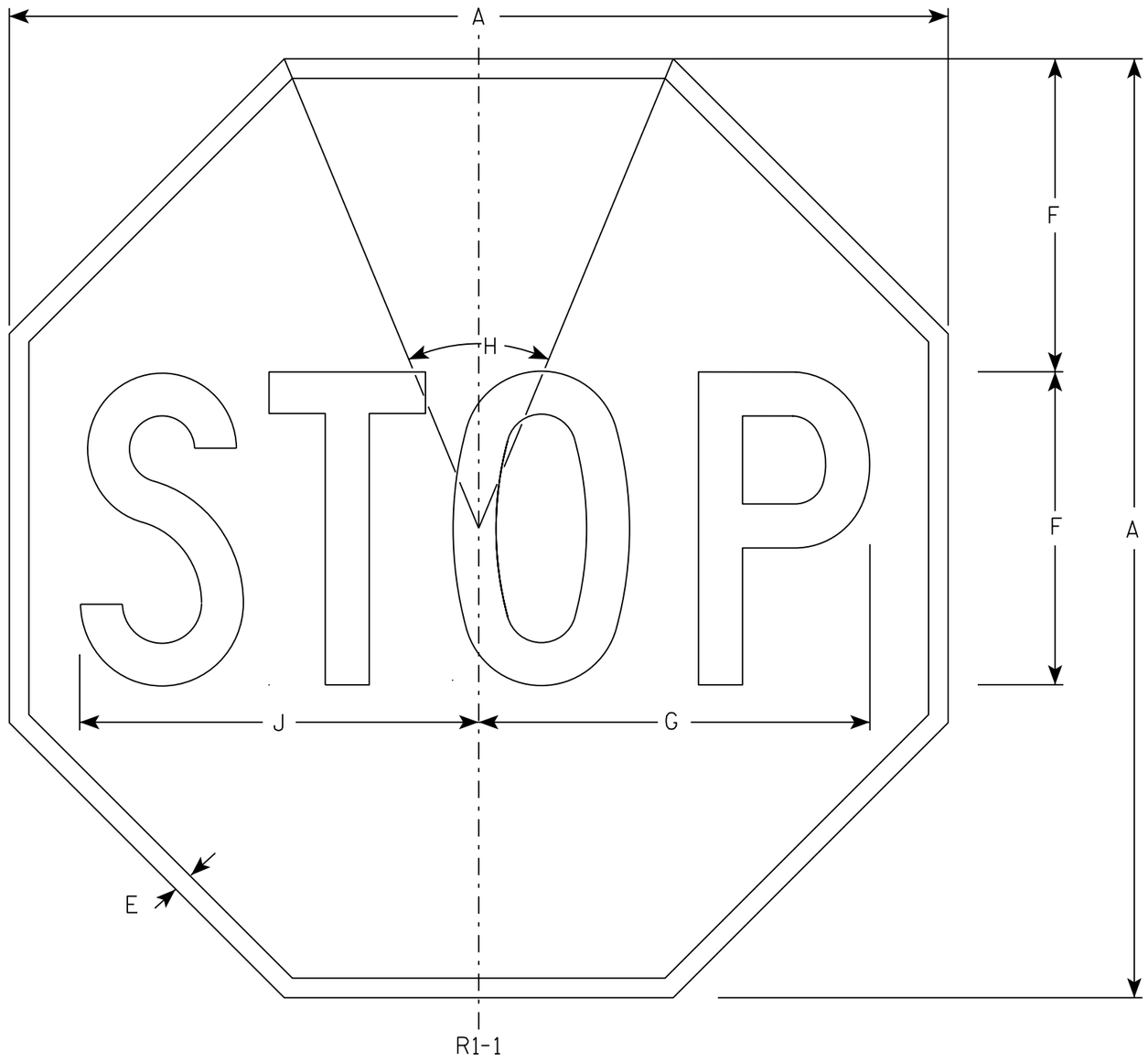
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 359 M6-4.10

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN

R1-1

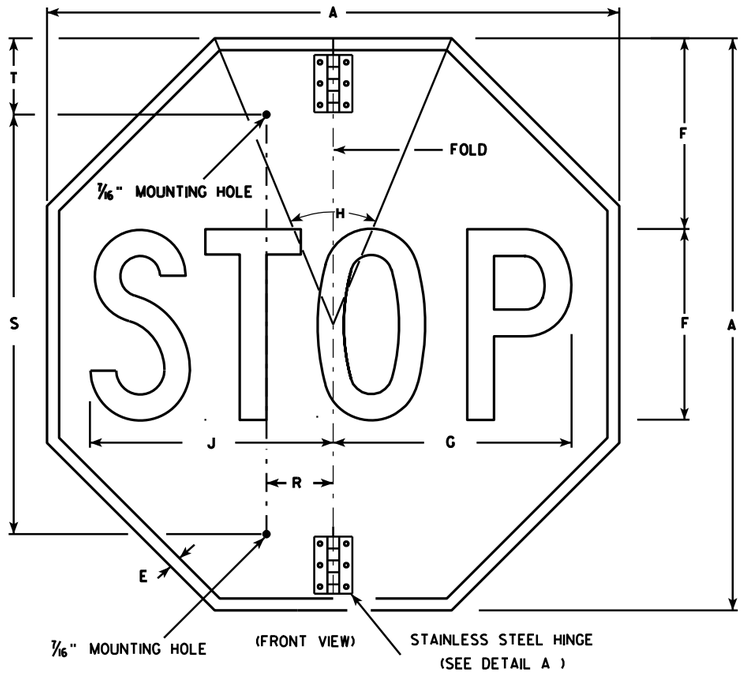
WISCONSIN DEPT OF TRANSPORTATION

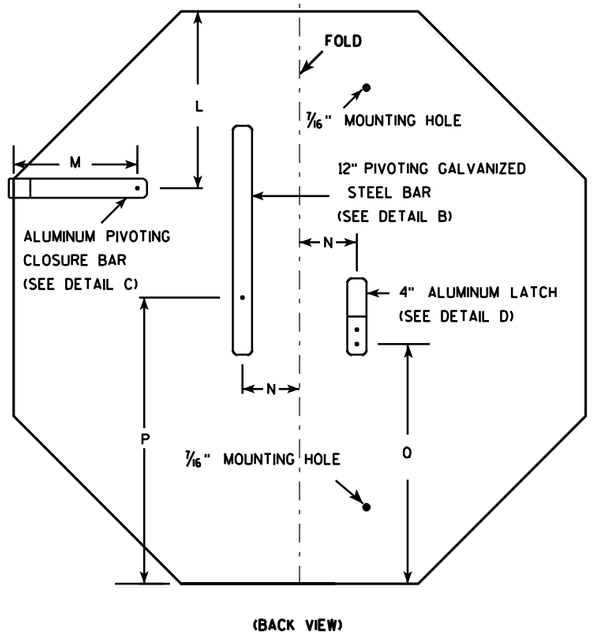
APPROVED Matthew R Rauch

for State Traffic Engineer

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

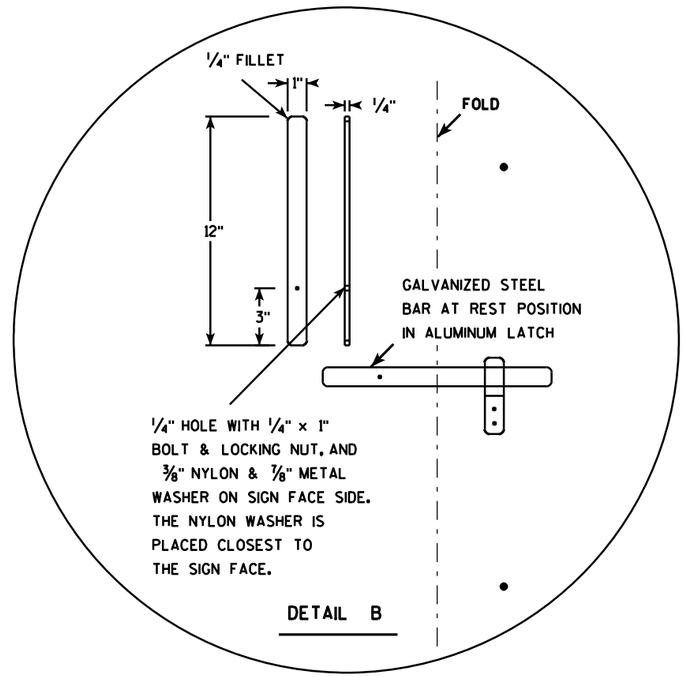
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 360	E

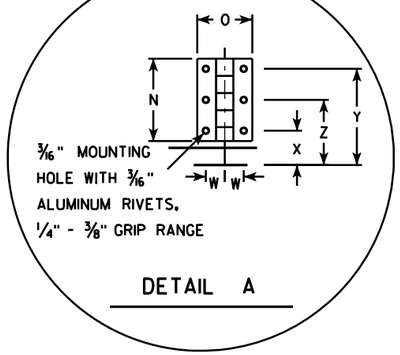


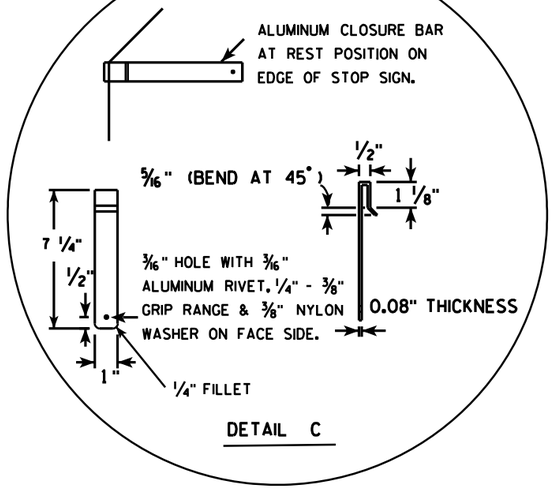


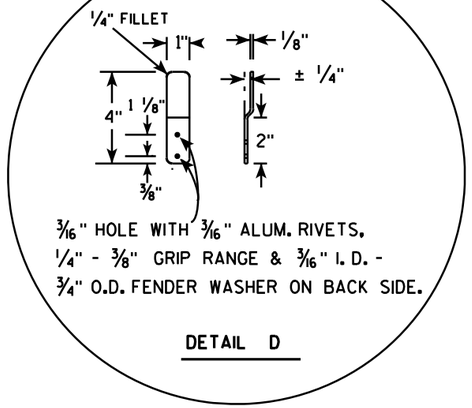
NOTES

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
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

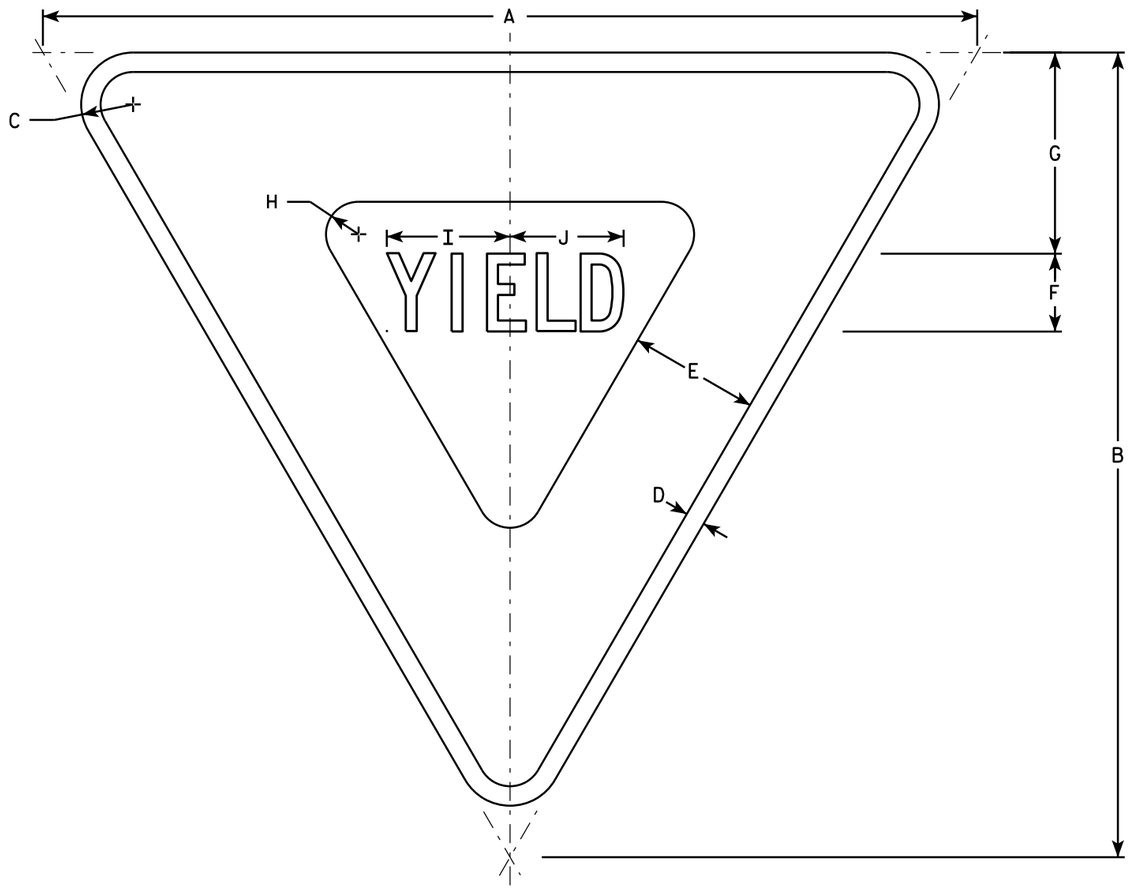
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 361 | E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

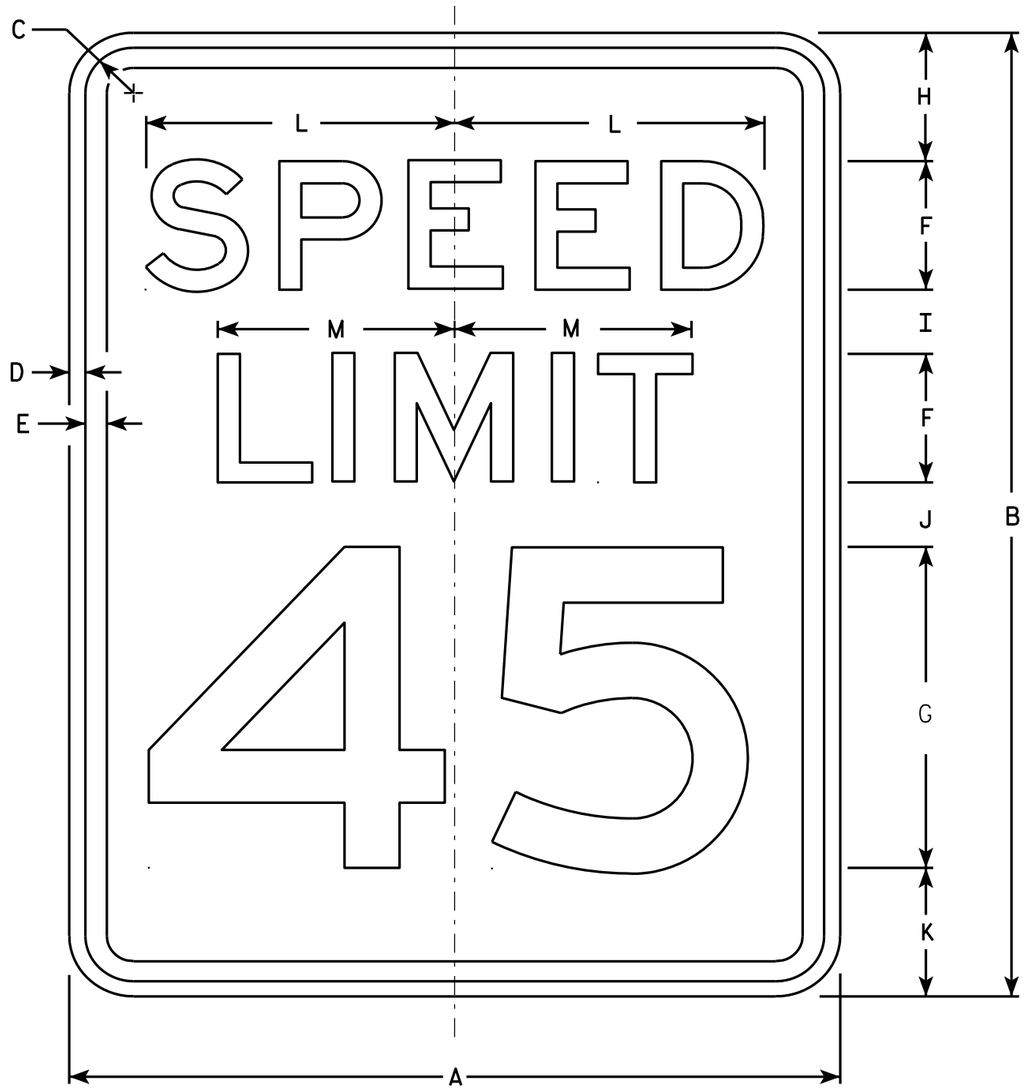
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

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

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

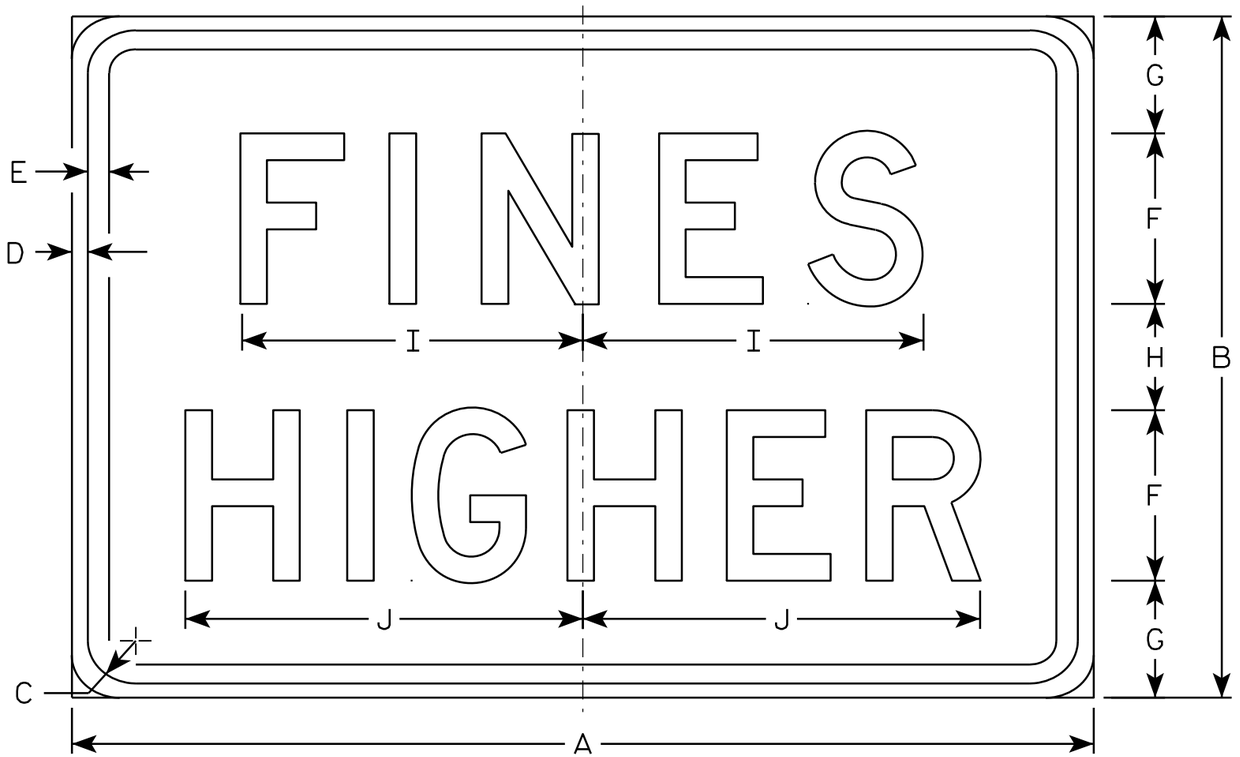
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 363 | E



R2-6P

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

STANDARD SIGN
R2-6P

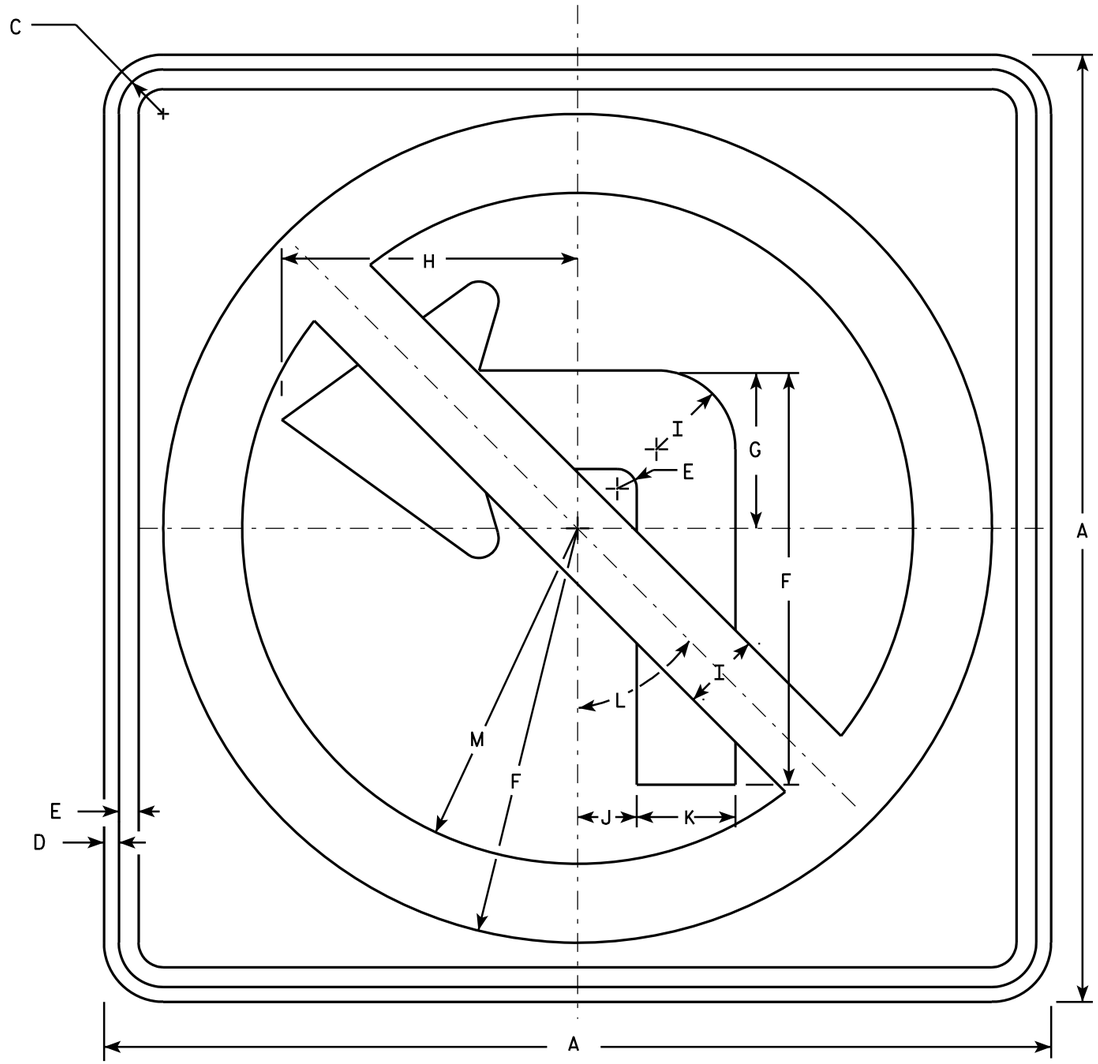
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 364 | E

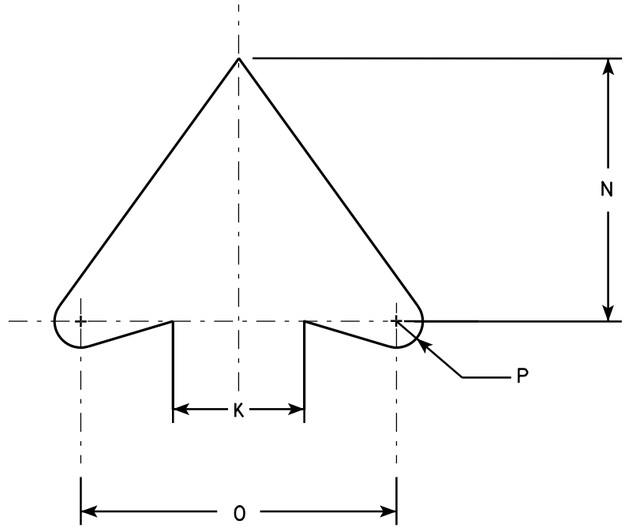
7



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

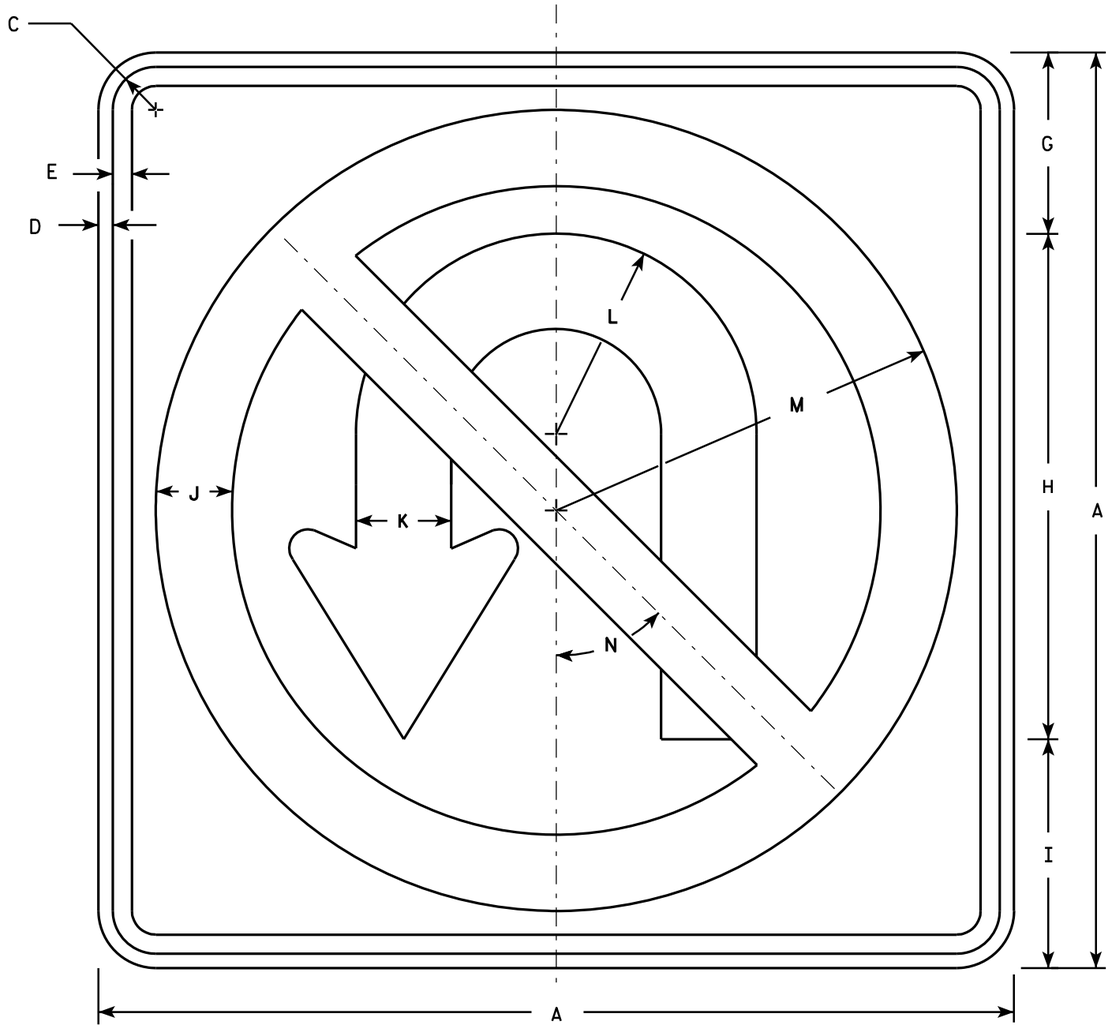
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

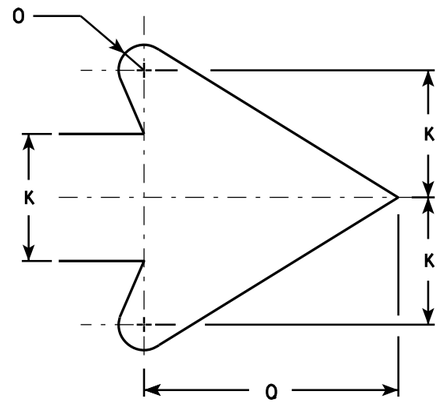
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 365	E



R3-4

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	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
3	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0

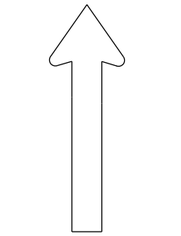
STANDARD SIGN
R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-4.11

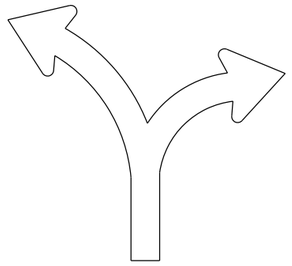
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 366	E

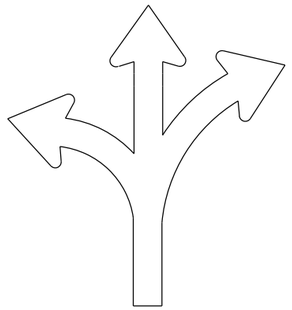


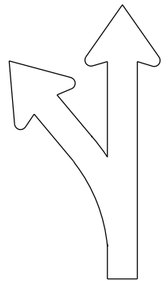
(A)

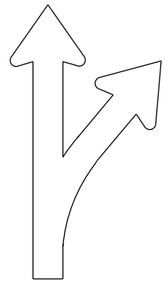


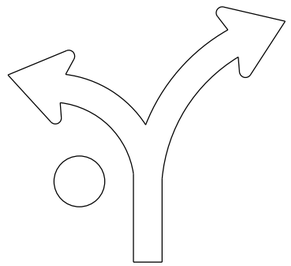
(B)

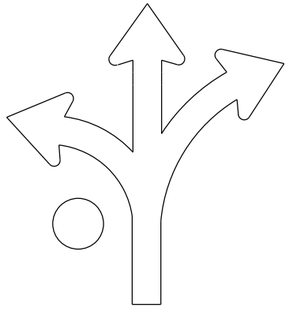

(C)

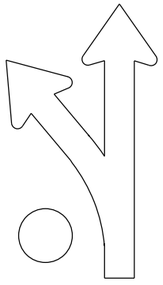

(D)


(E)


(F)

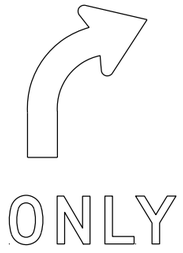

(G)


(H)

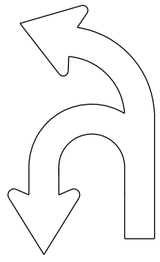

(I)



(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1	Letter =	3.75 sq ft for Size 2
		6.0 sq ft for Size 3
		10.0 sq ft for Size 4 or 5
2	Letters =	7.5 sq ft for Size 2
		12.0 sq ft for Size 3
		20.0 sq ft for Size 4 or 5
3	Letters =	11.25 sq ft for Size 2
		18.0 sq ft for Size 3
		30.0 sq ft for Size 4 or 5
4	Letters =	15.0 sq ft for Size 2
		24.0 sq ft for Size 3
		40.0 sq ft for Size 4 or 5
5	Letters =	18.75 sq ft for Size 2
		30.0 sq ft for Size 3
		50.0 sq ft for Size 4 or 5
6	Letters =	22.5 sq ft for Size 2
		36.0 sq ft for Size 3
		60.0 sq ft for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

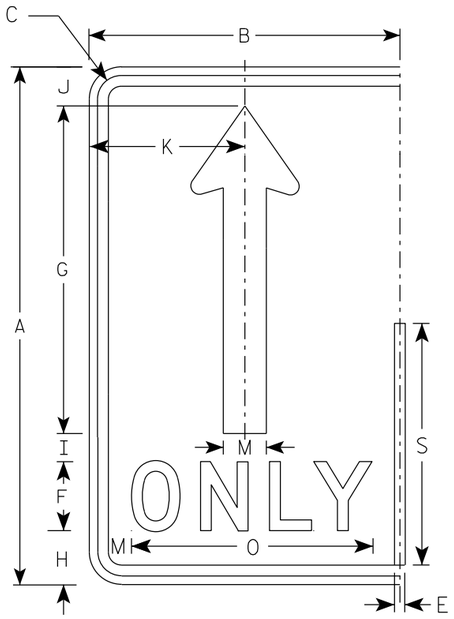
PROJECT NO:

SHEET NO: 367 E

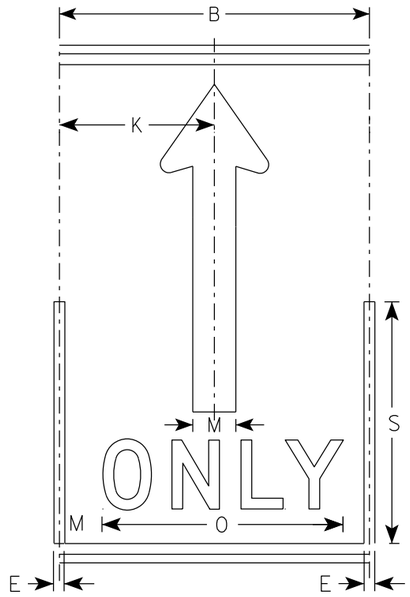
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:37 PLOT BY : mscj9h PLOT NAME :
WISDOT/CADDS SHEET 42

NOTES

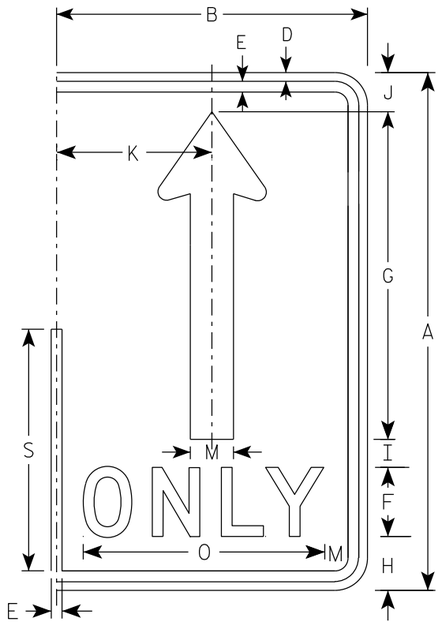
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



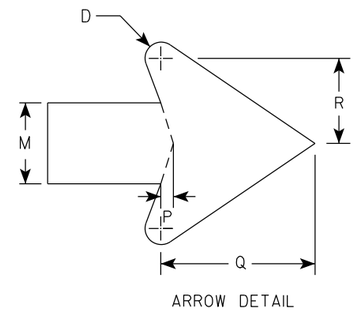
(A)



(A)



(A)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

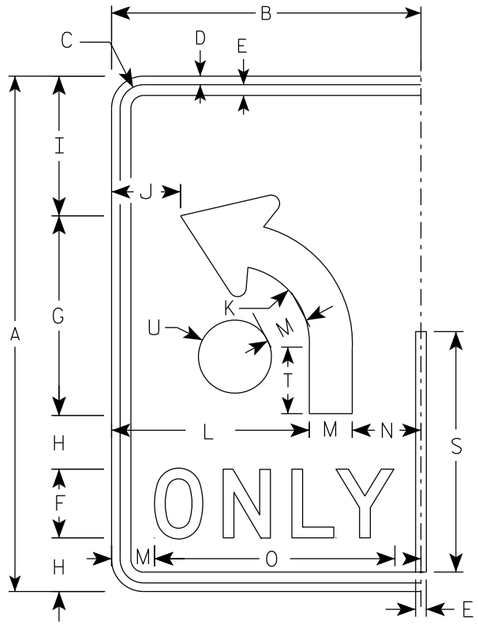
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

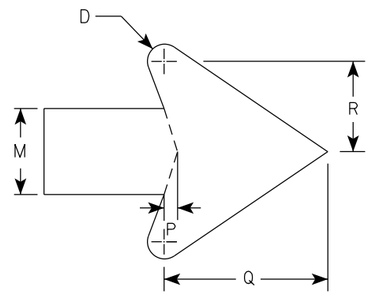
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 368 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

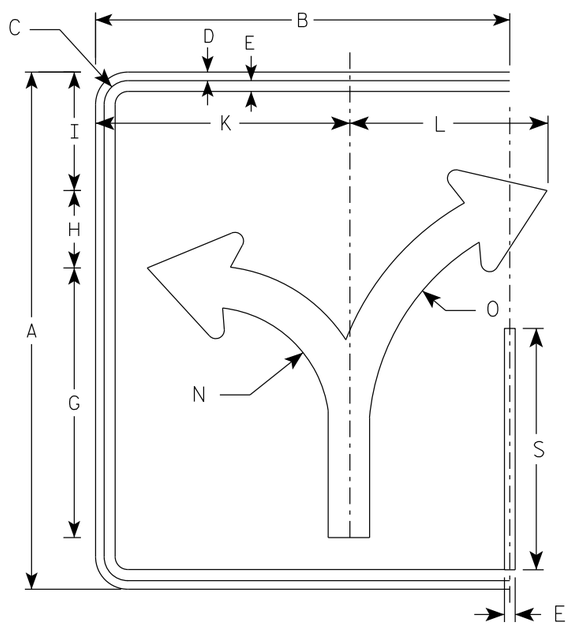
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

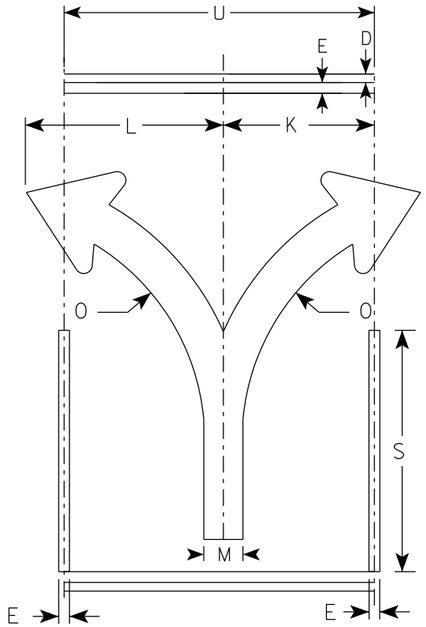
SHEET NO: 369 E

NOTES

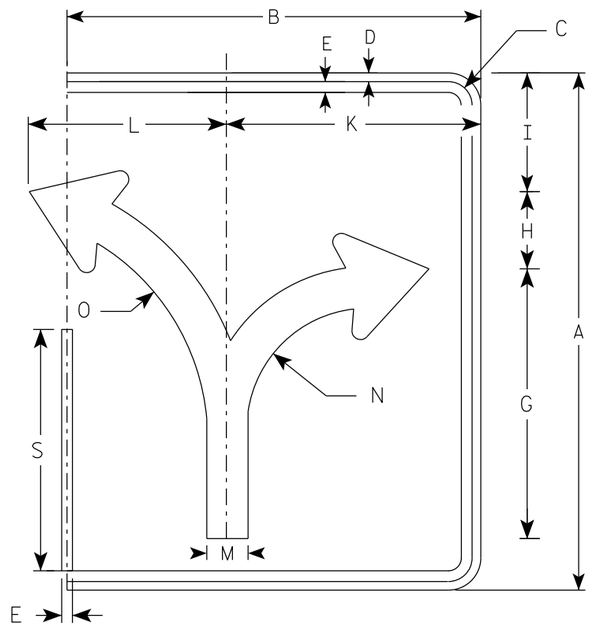
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



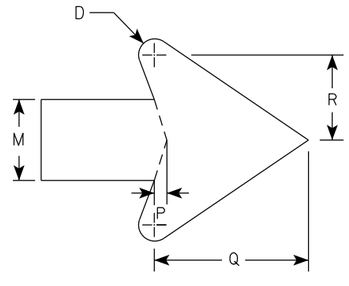
(C)



(C)



(C)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

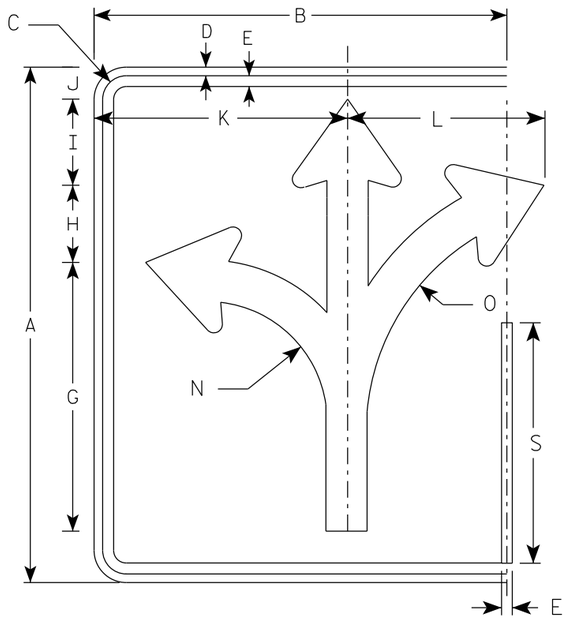
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

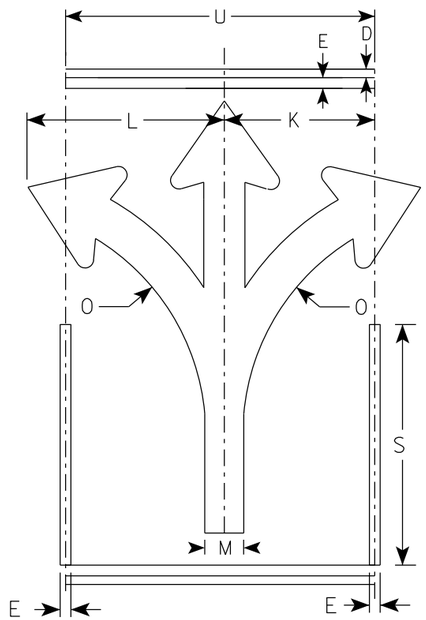
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 370 | E

NOTES

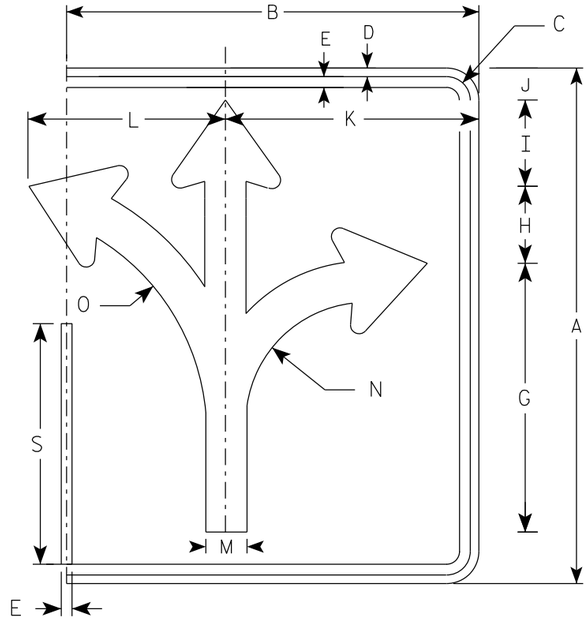
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



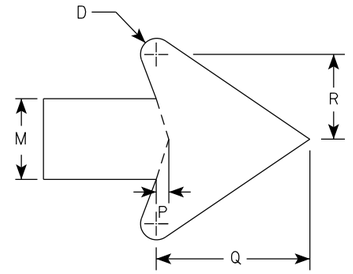
(D)



(D)



(D)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

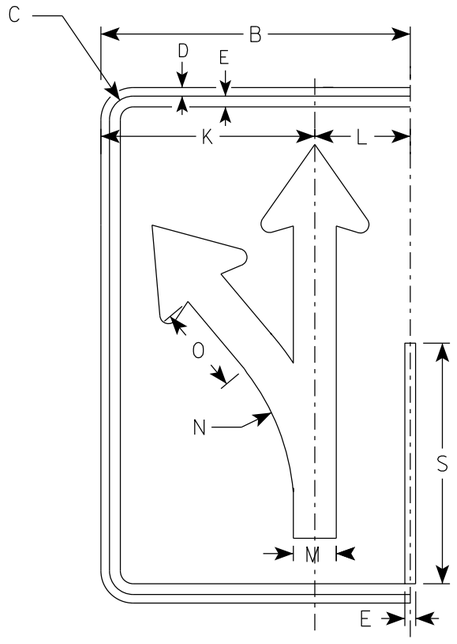
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 371 | E

7

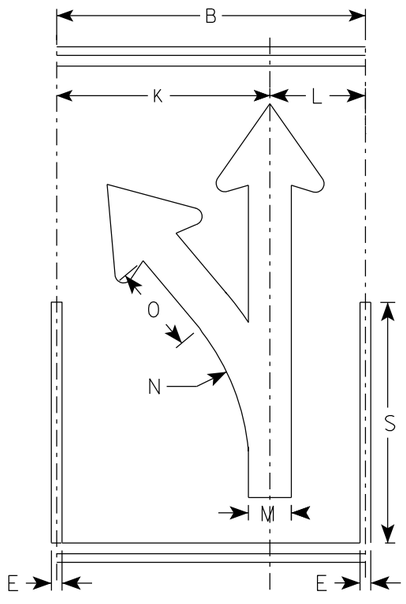
7

NOTES

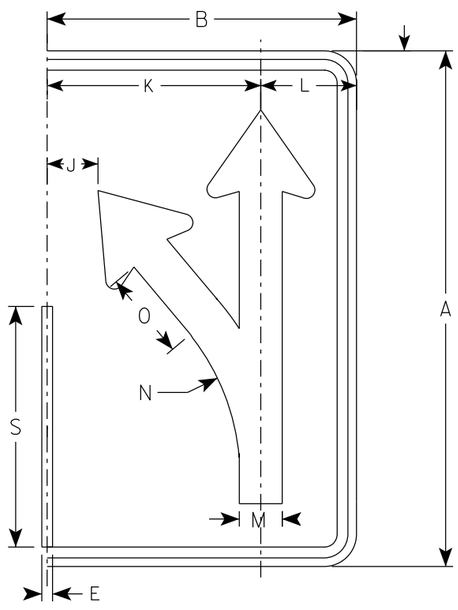
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



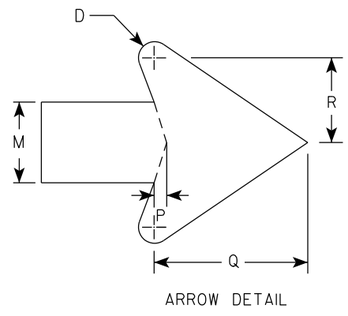
(E)



(E)



(E)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

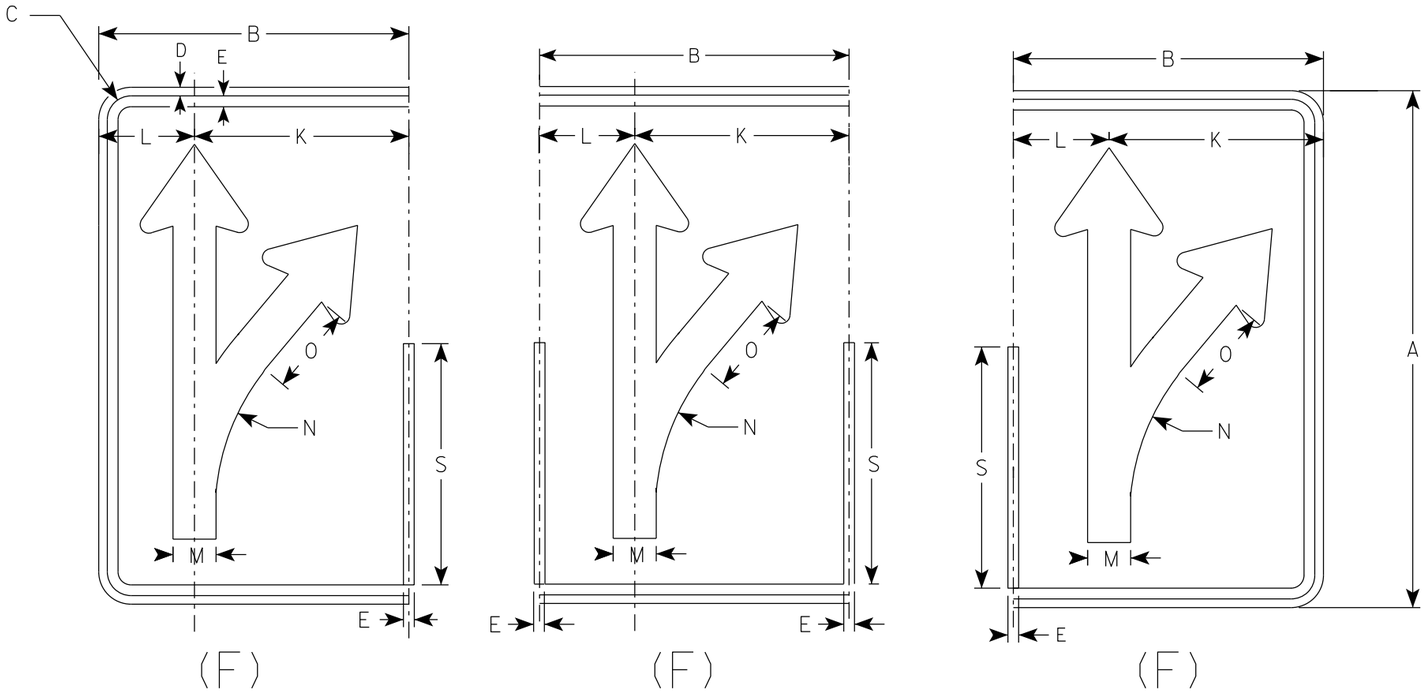
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

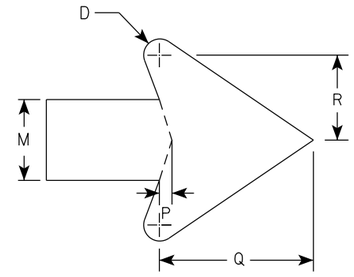
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 372 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(F) (F) (F)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

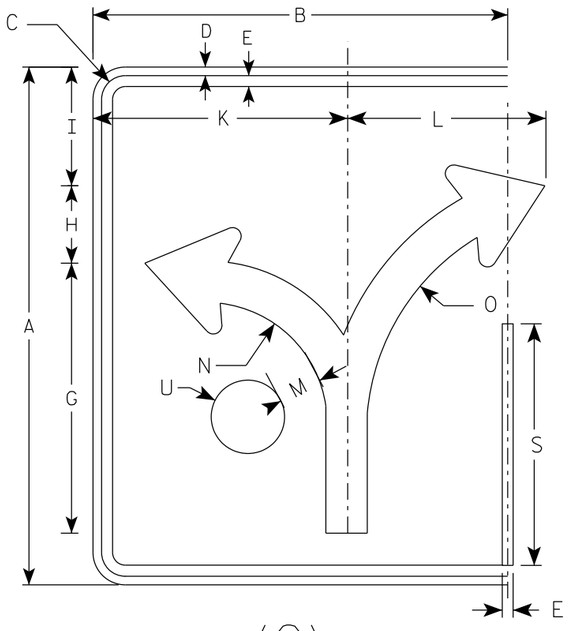
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

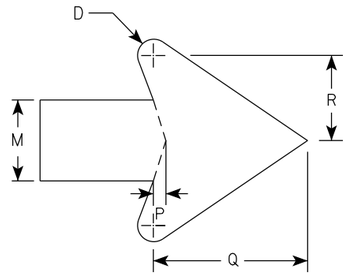
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 373 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

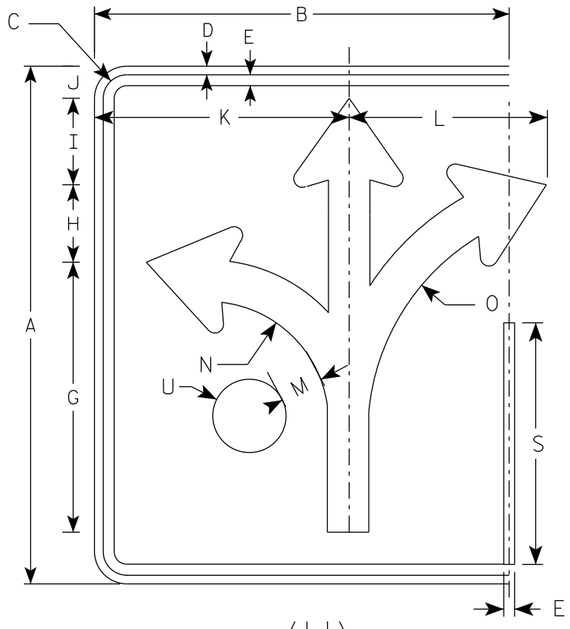
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 374	E

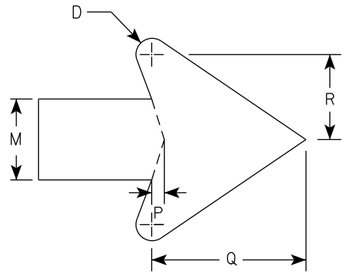
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:38 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

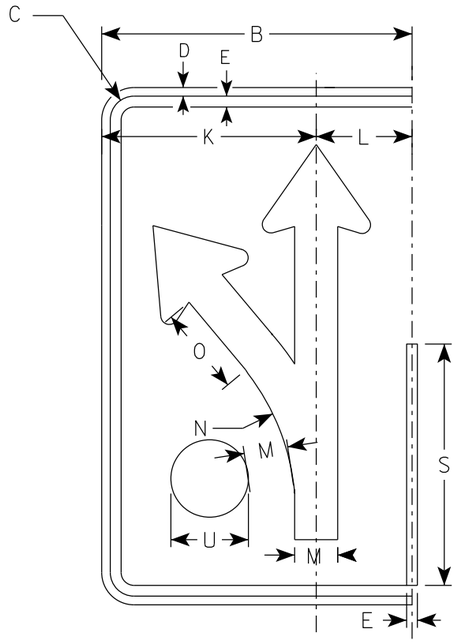
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

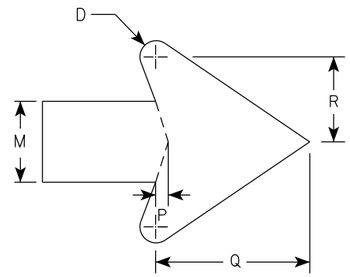
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 375	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

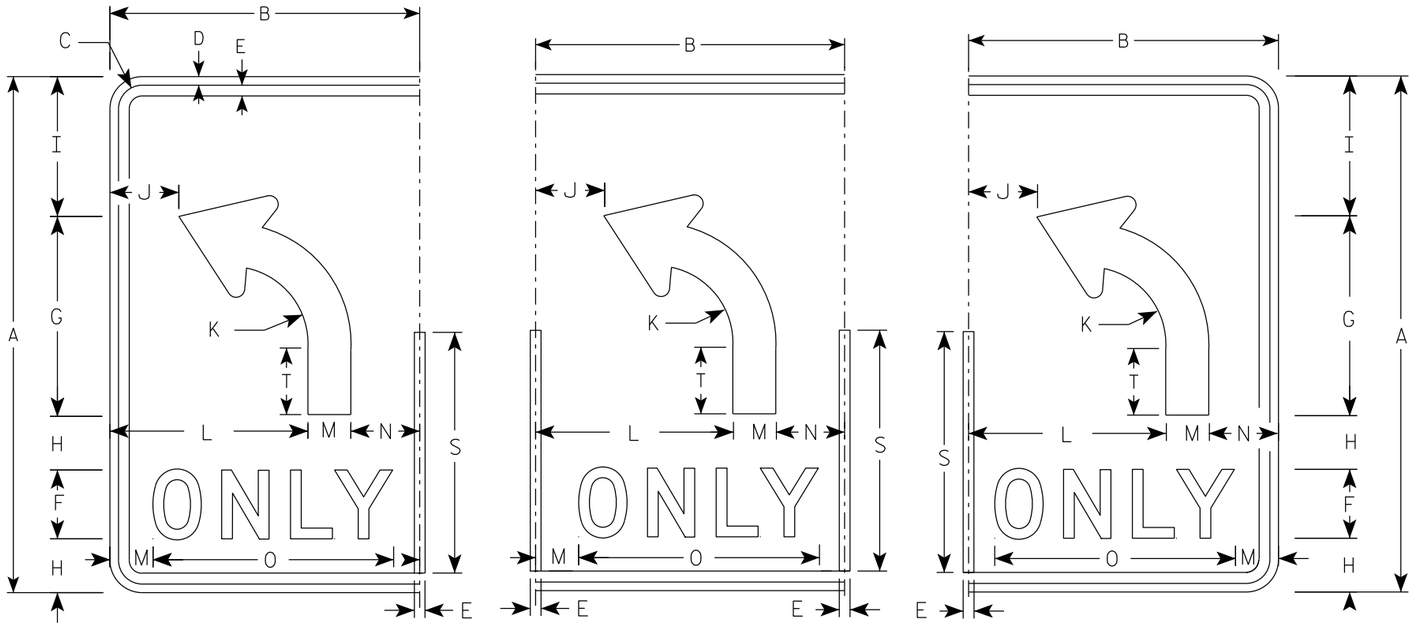
APPROVED Matthew R Rauch
For State Traffic Engineer

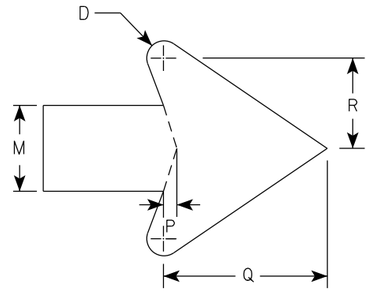
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 376 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D





ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

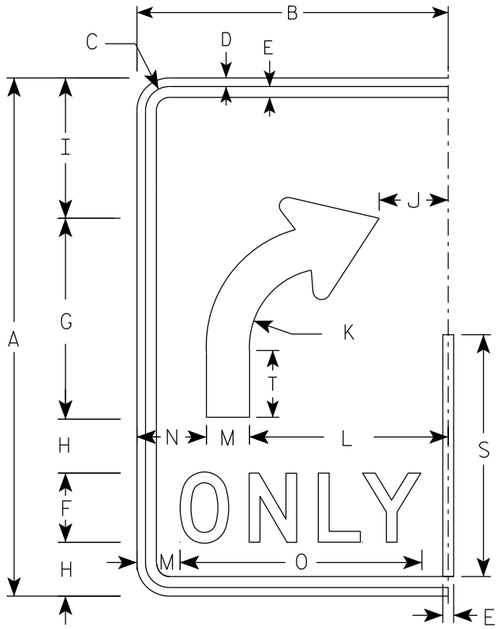
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

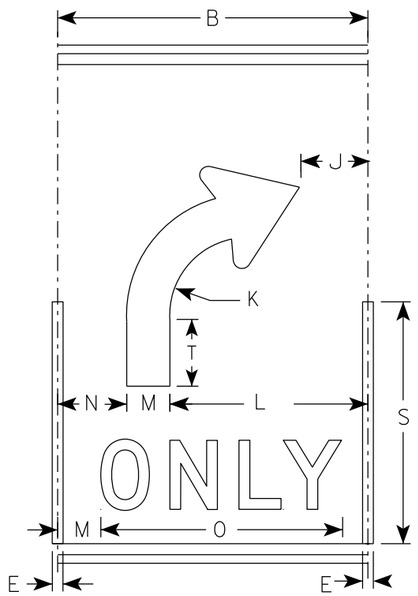
SHEET NO: 377 E

NOTES

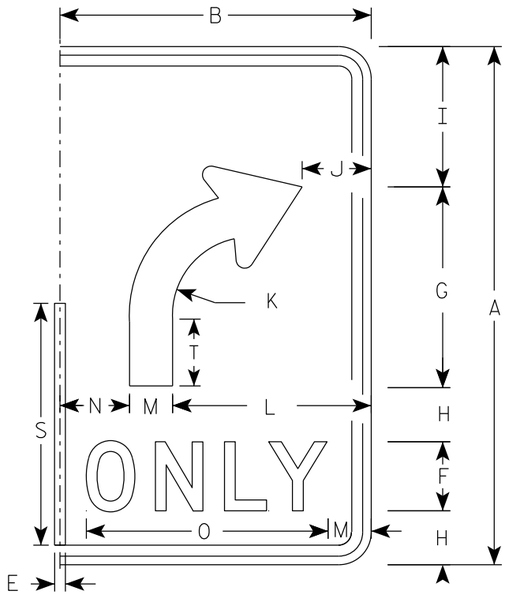
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



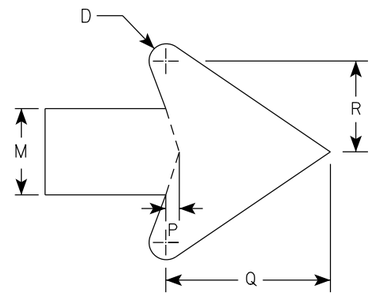
(R)



(R)



(R)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN
R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

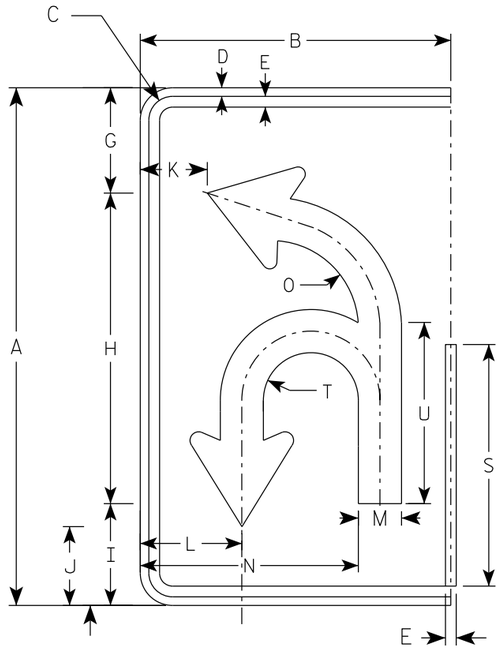
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

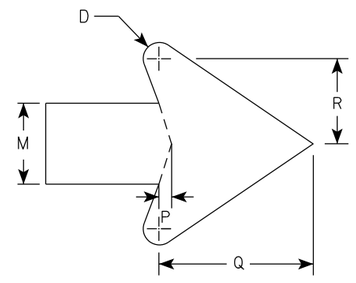
SHEET NO: 378 **E**

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

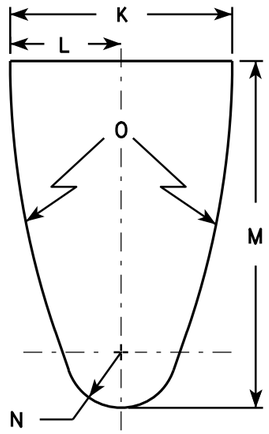
STANDARD SIGN
R3-8 (U) Arrow

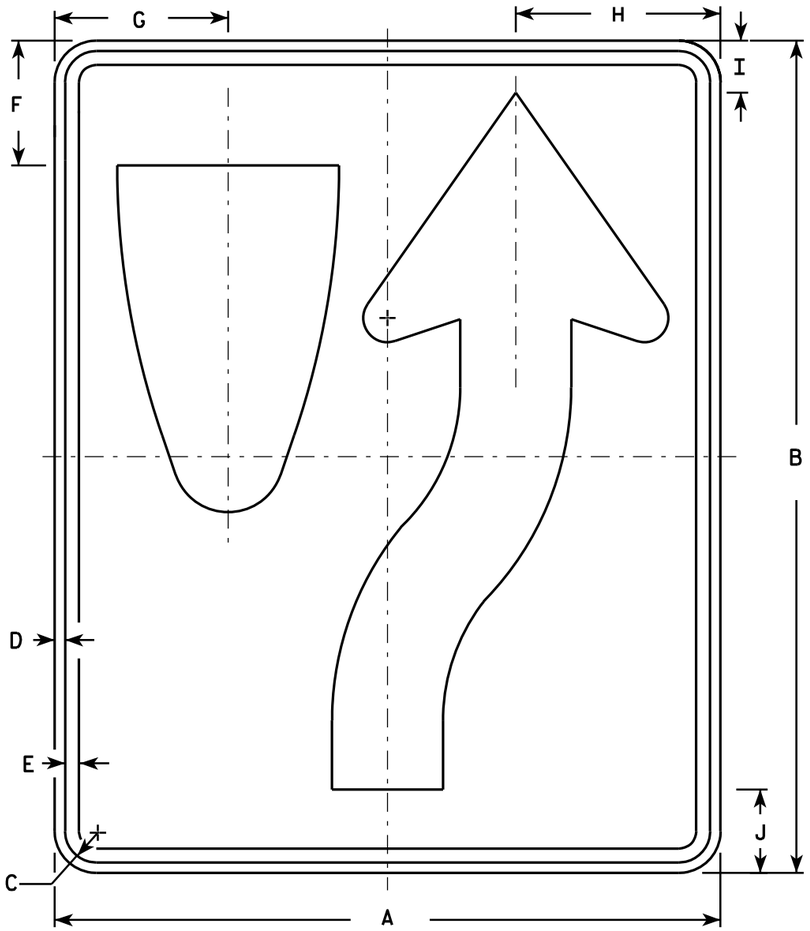
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 379 | E

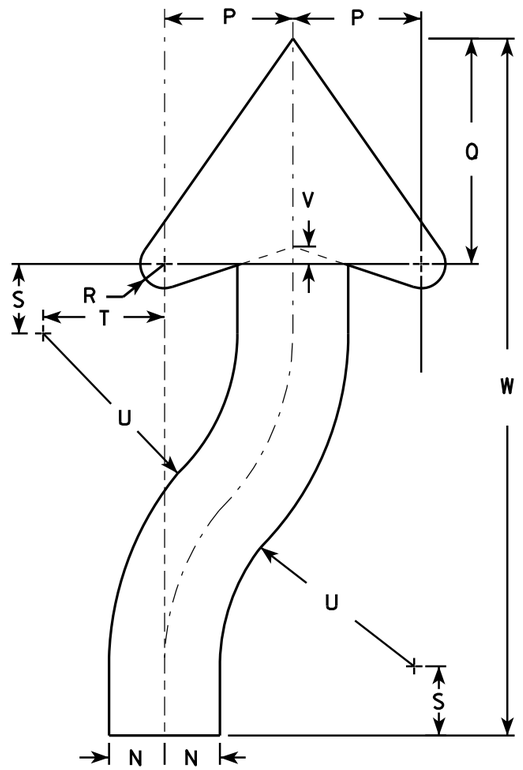




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

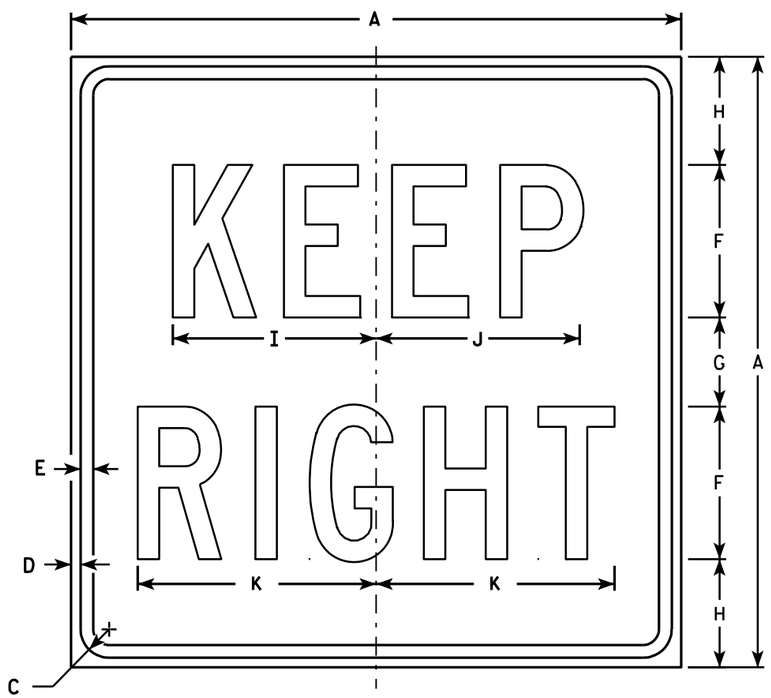
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

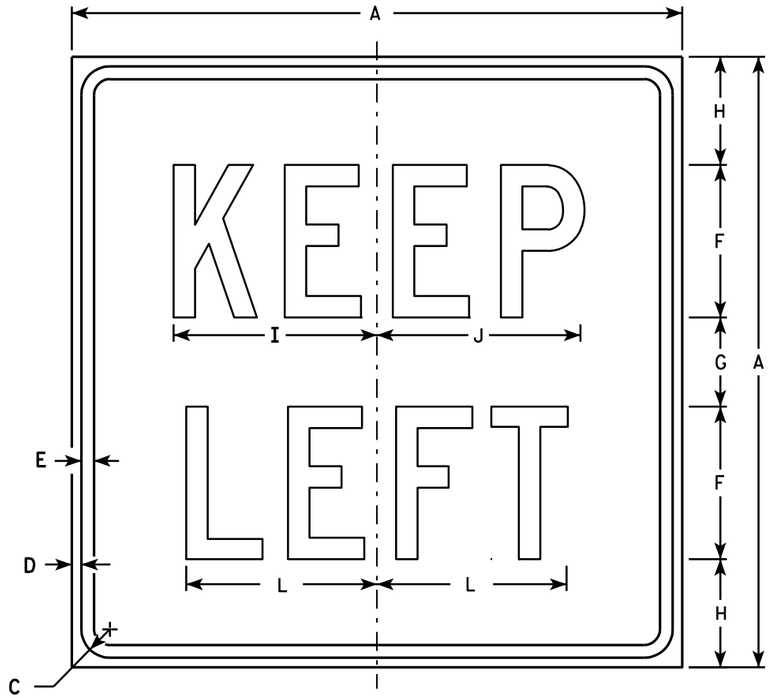
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 380	E



R4-52R



R4-52L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3/8	3/8	5	2	3	6 3/4	6 5/8	7 1/2	6 1/4															2.25
2S	24		1 1/8	3/8	1/2	6	3 1/2	4 1/4	8	8	9 3/8	7 1/2															4.0
2M	24		1 1/8	3/8	1/2	6	3 1/2	4 1/4	8	8	9 3/8	7 1/2															4.0
3	36		1 5/8	5/8	3/4	10	5	5 1/2	13 1/2	13 3/8	14 1/2	12 1/2															9.0
4																											
5																											

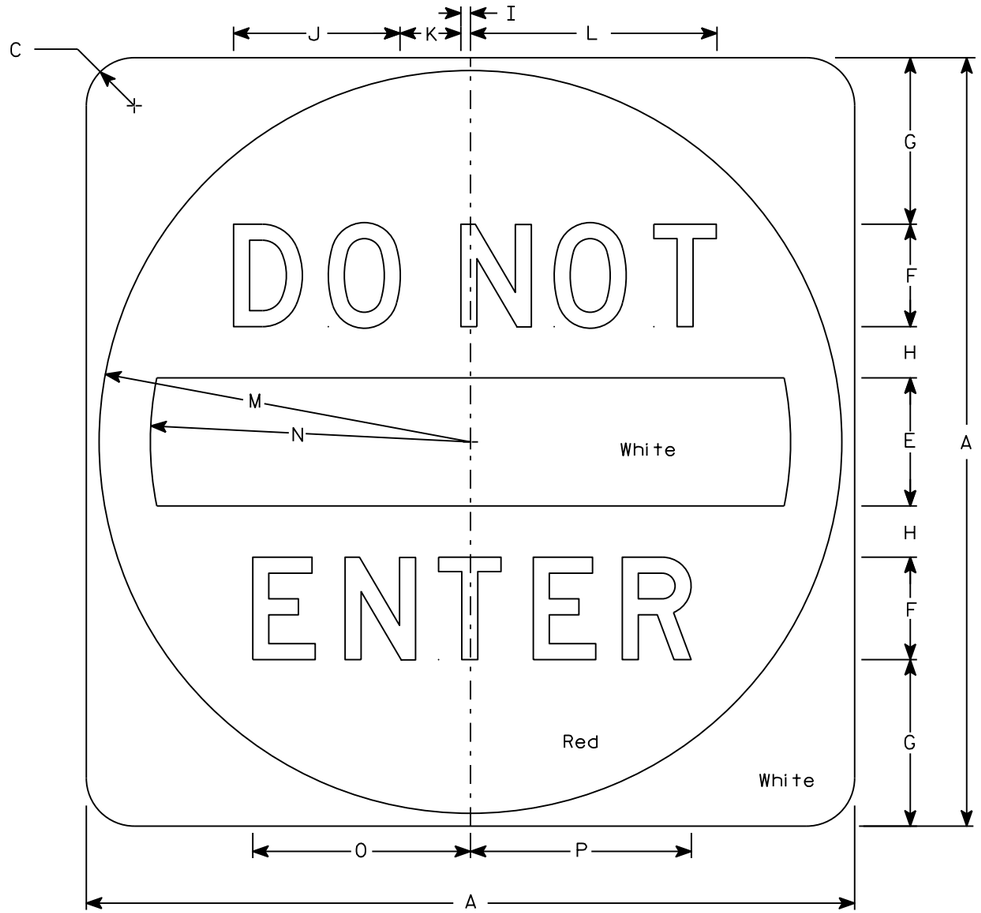
STANDARD SIGN
R4-52R & R4-52L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R4-52.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 381 | E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

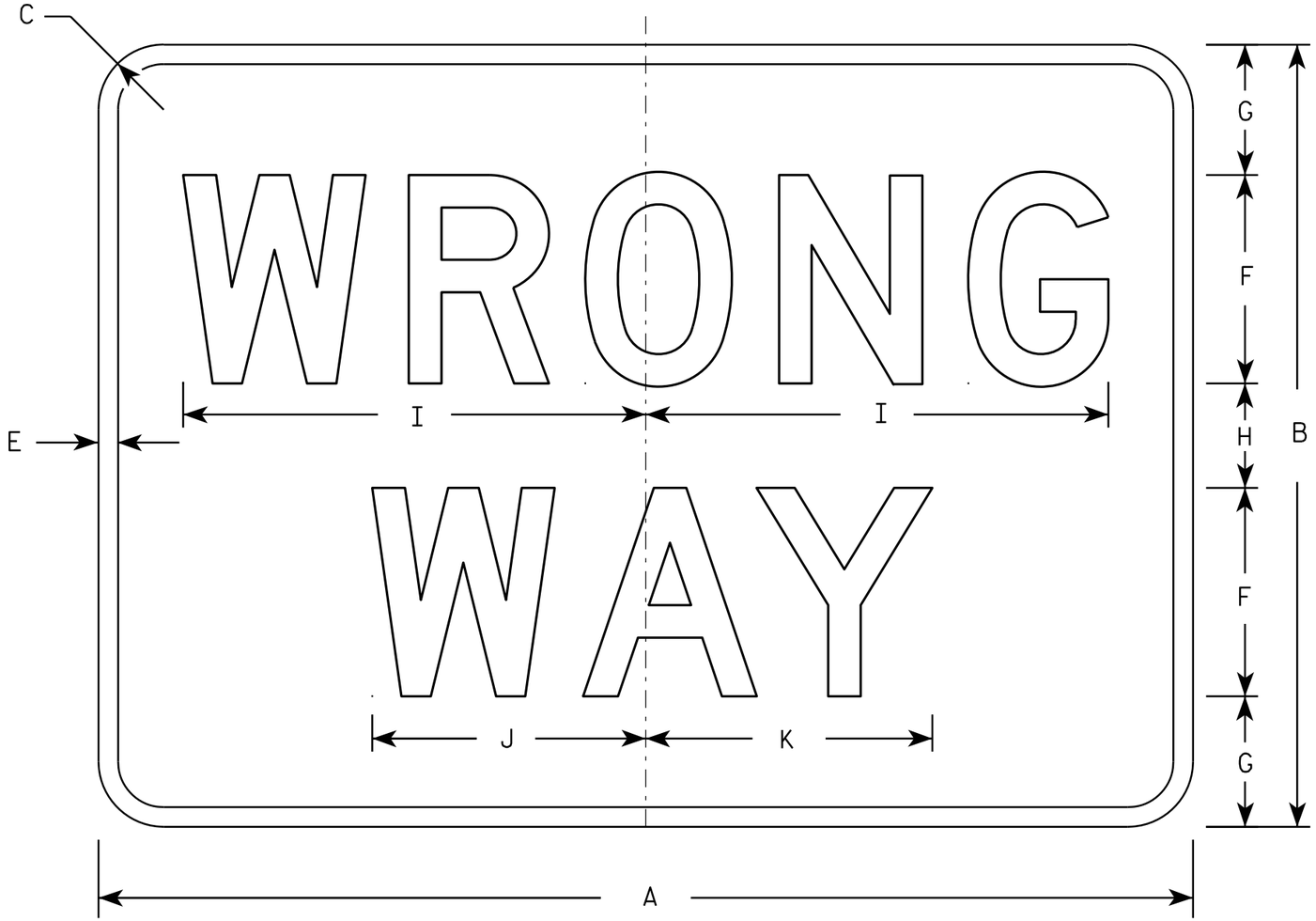
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 382 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

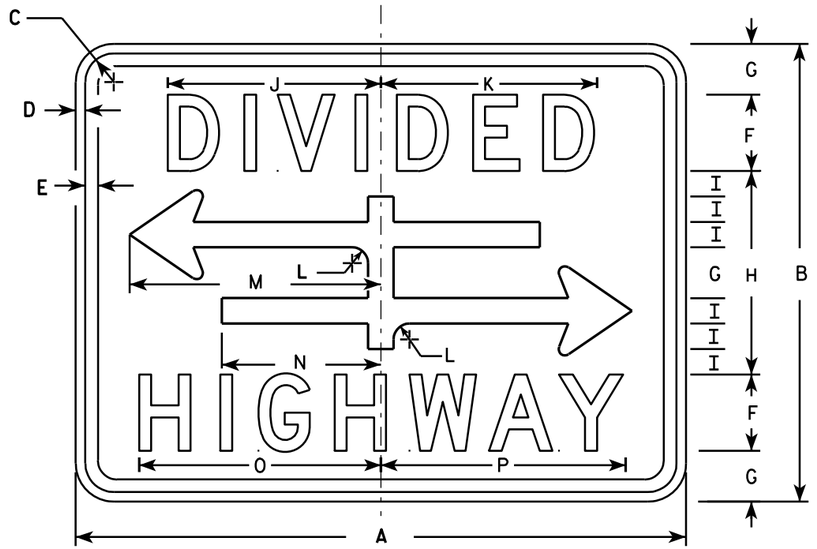
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

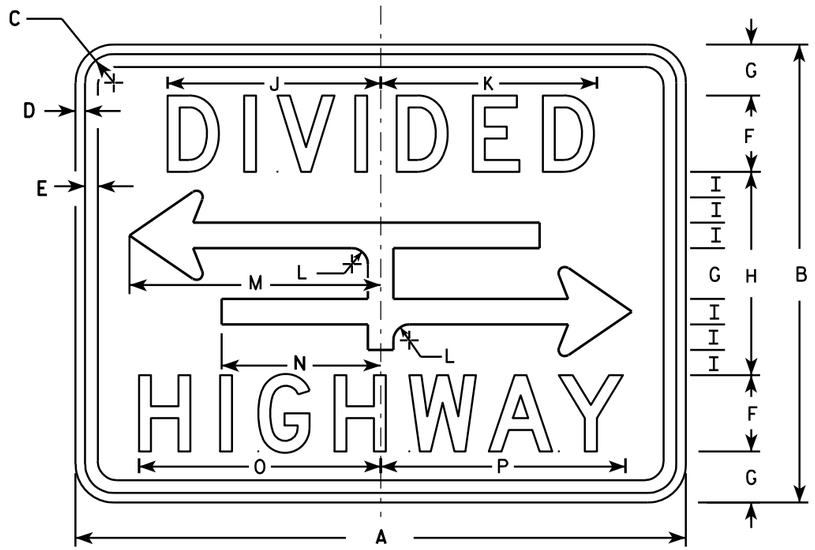
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 383 | E



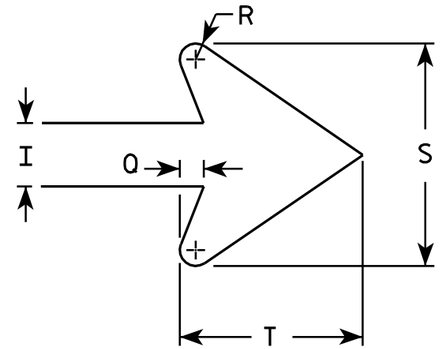
R6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-3A



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

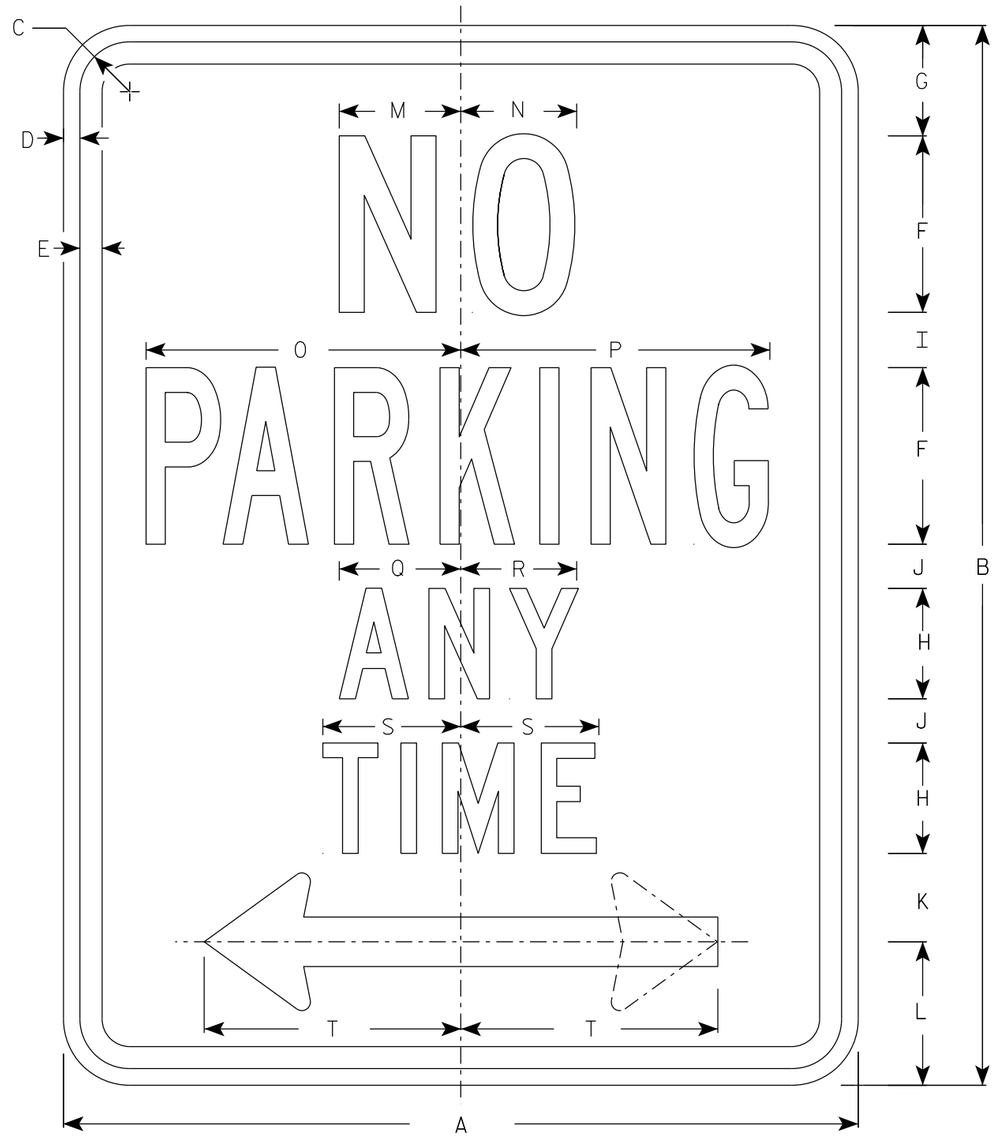
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

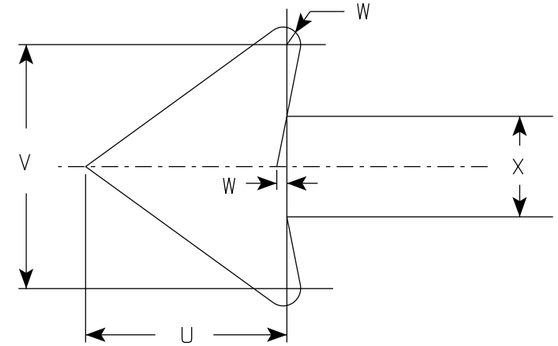
SHEET NO: 384 E



R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

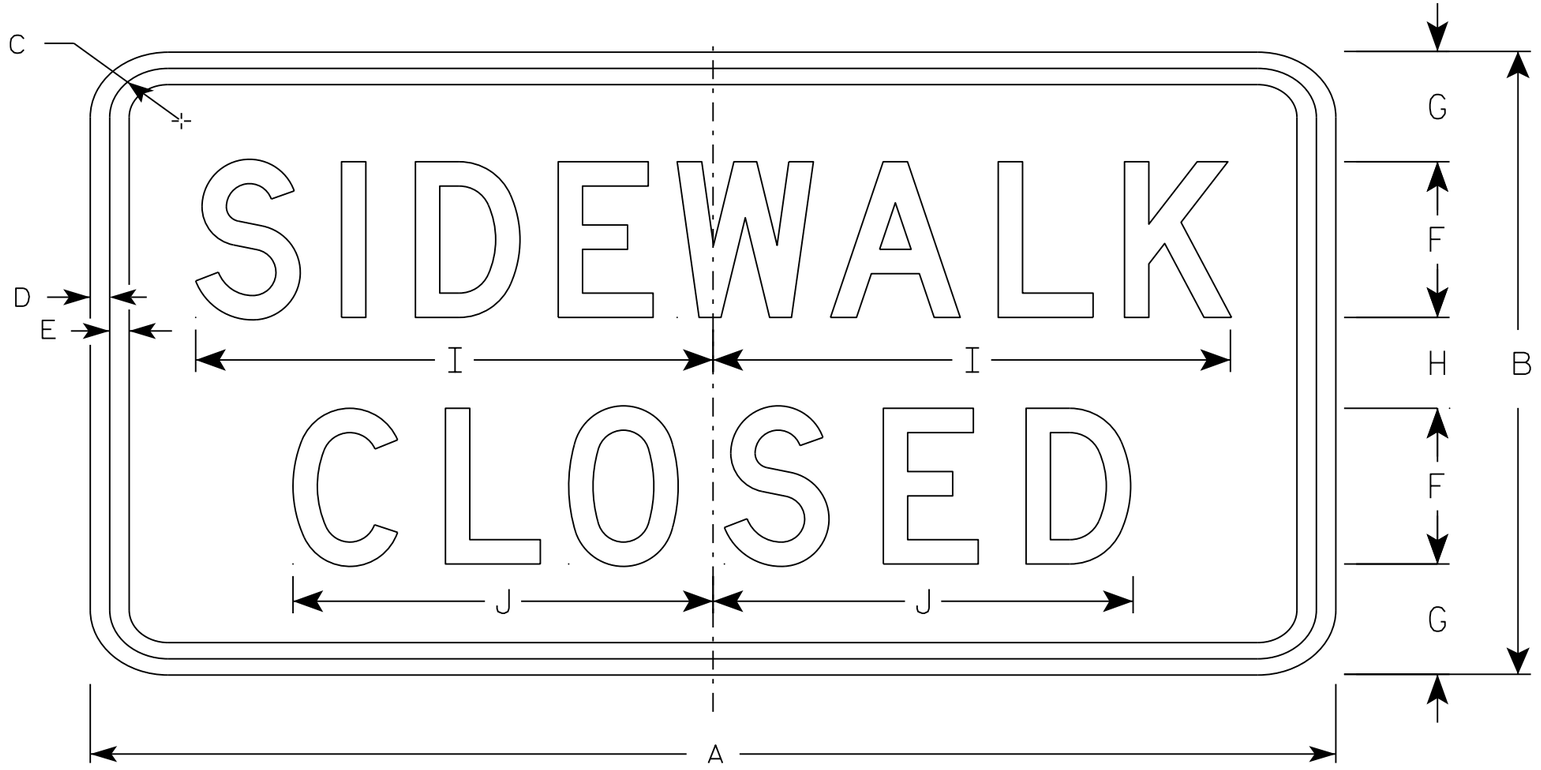
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. R7-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 385 E

7

7



R9-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

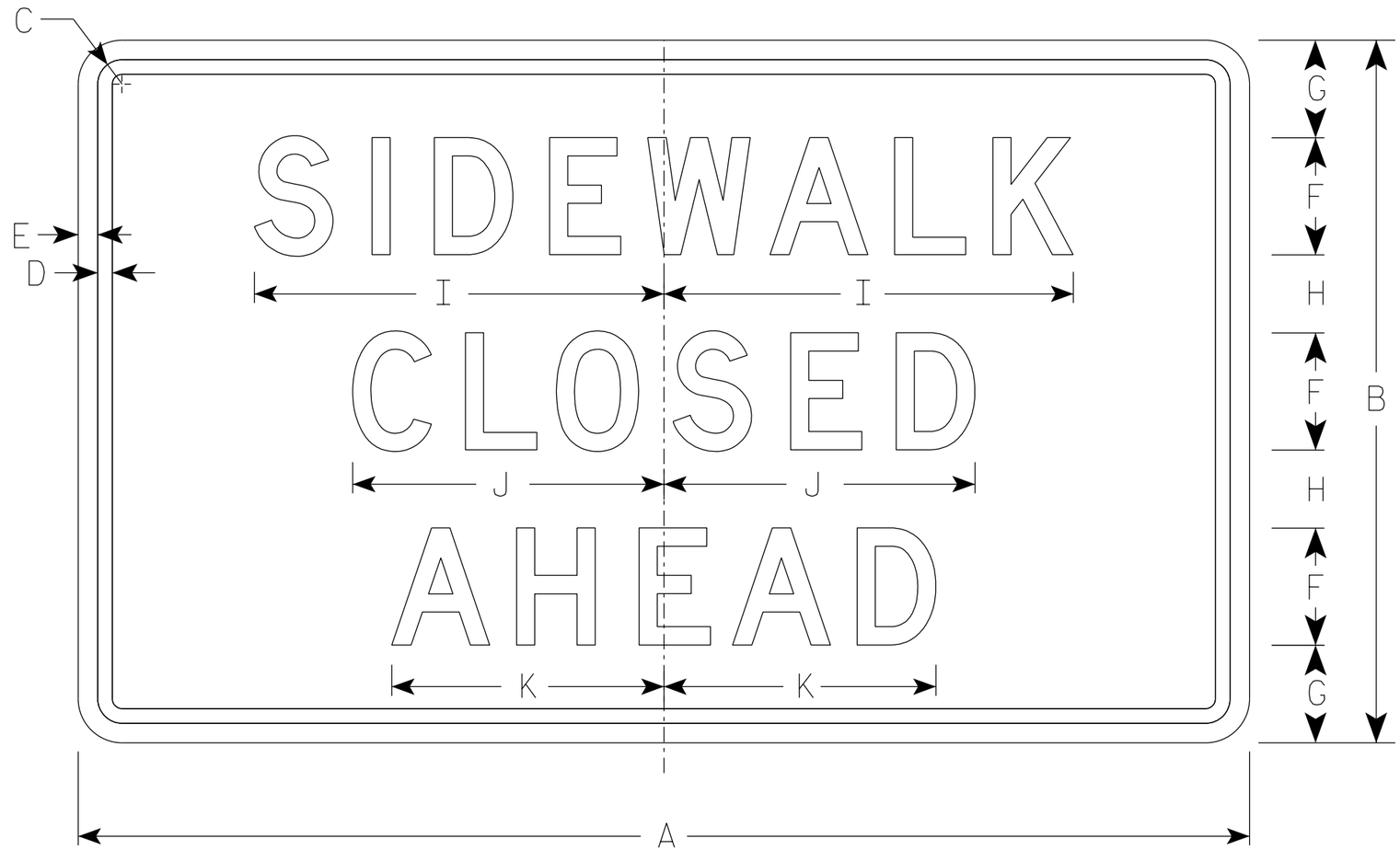
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE 386 R9-9.6

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



R9-9A

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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/8	3/8	1/2	3	2 1/2	2	10 1/2	8	7																3.75
2M	30	18	1 1/8	3/8	1/2	3	2 1/2	2	10 1/2	8	7																3.75
3																											
4																											
5																											

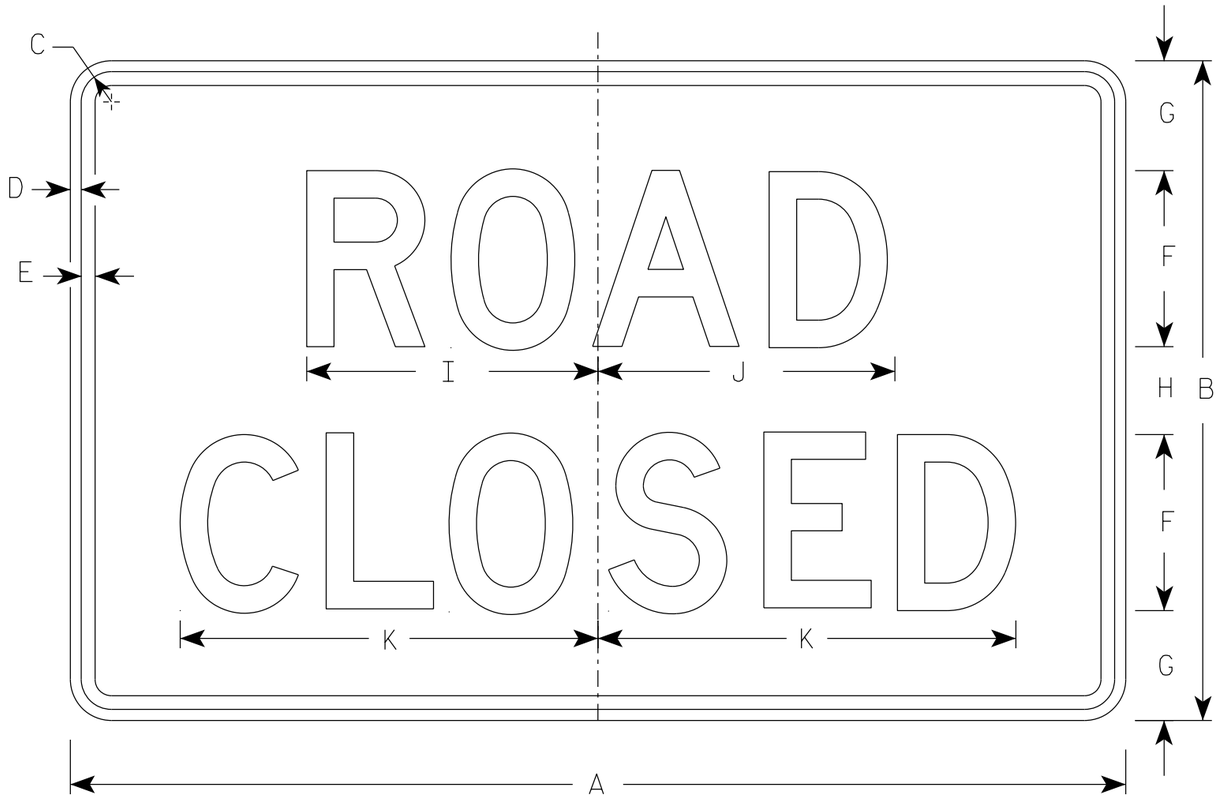
STANDARD SIGN
R9-9A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/31/2020 PLATE NO. R9-9A.1

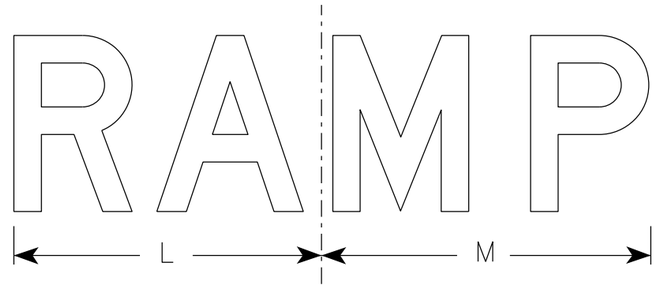
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 387 | E



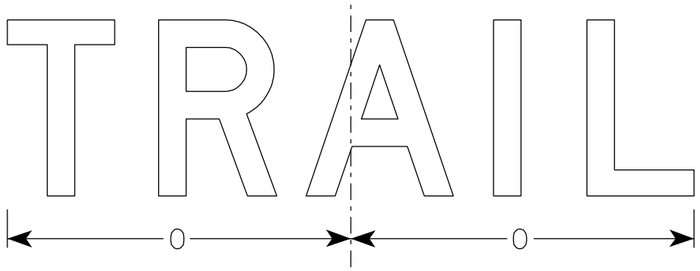
R11-2

NOTES

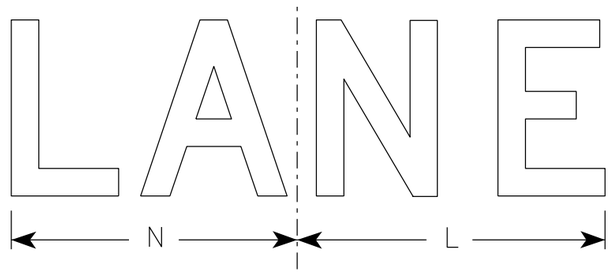
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the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

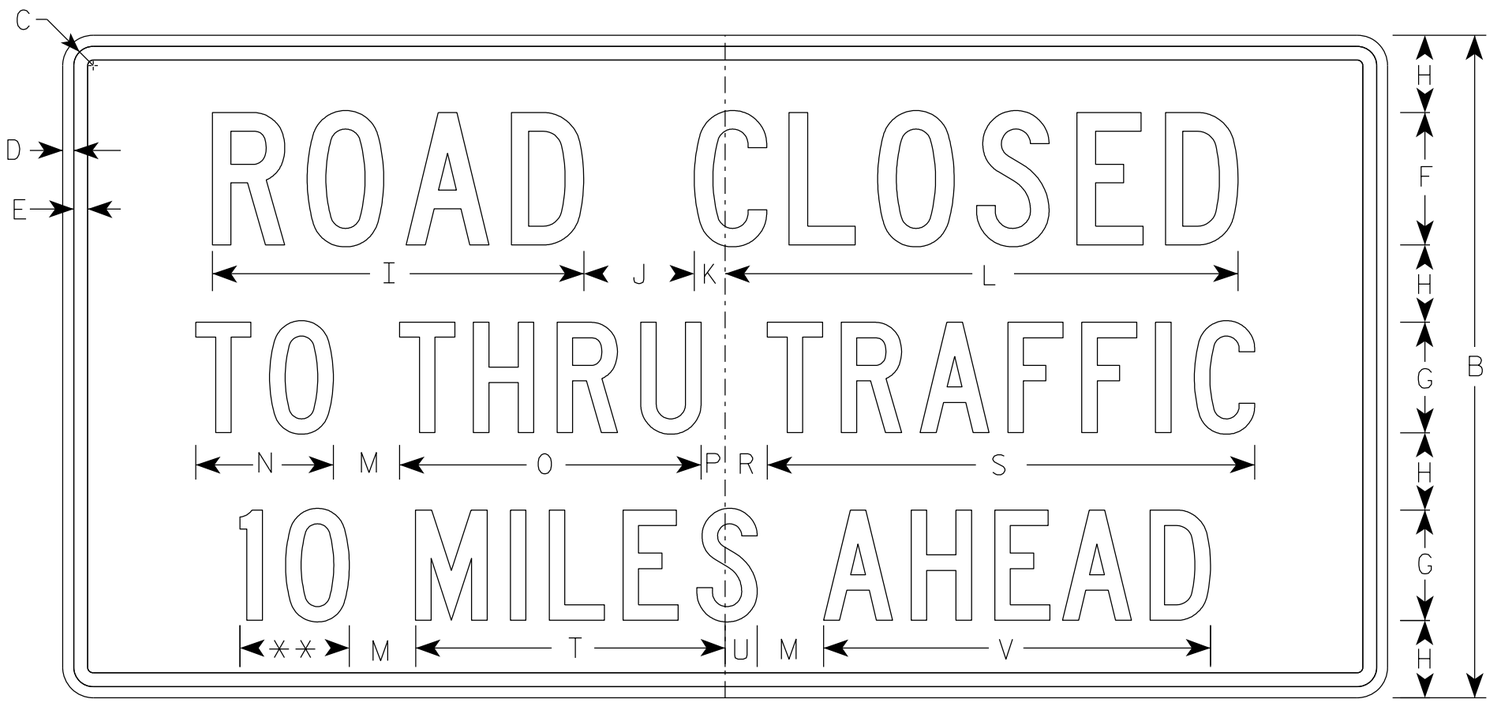
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 388 E

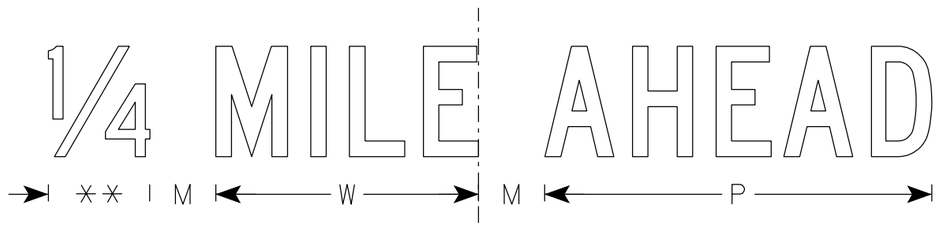
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



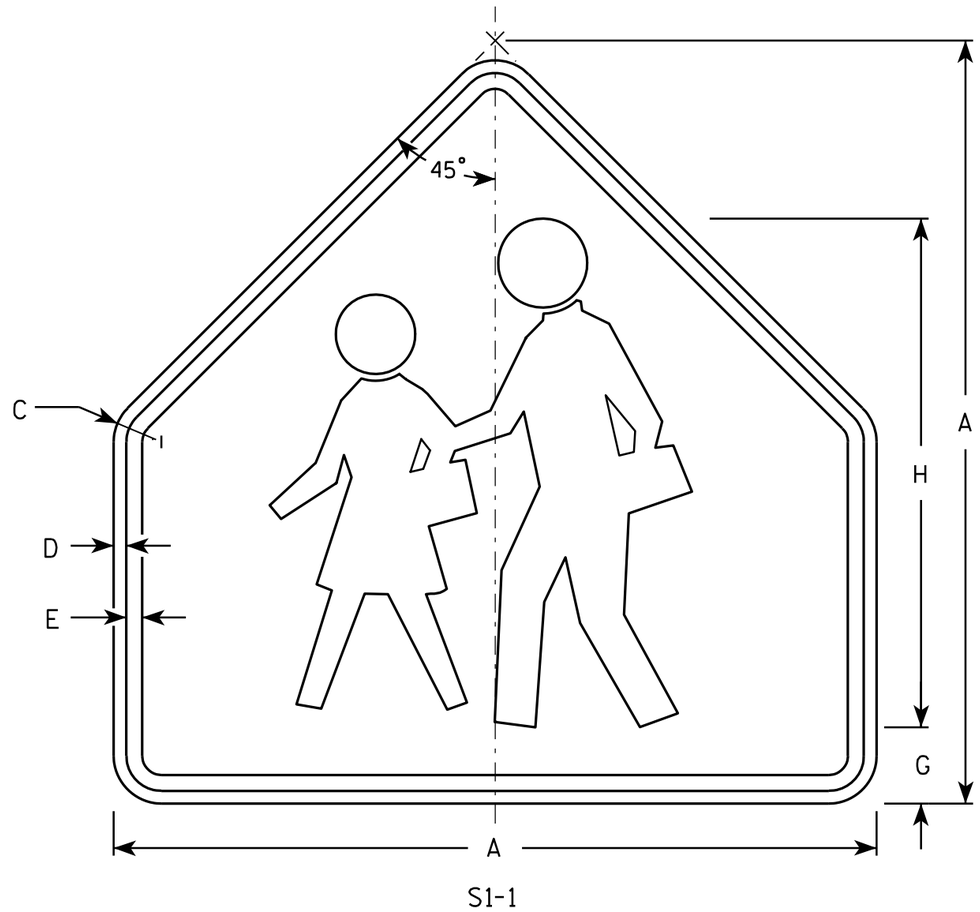
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 6/14/2021 PLATE NO. R11-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 389	E



S1-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   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	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

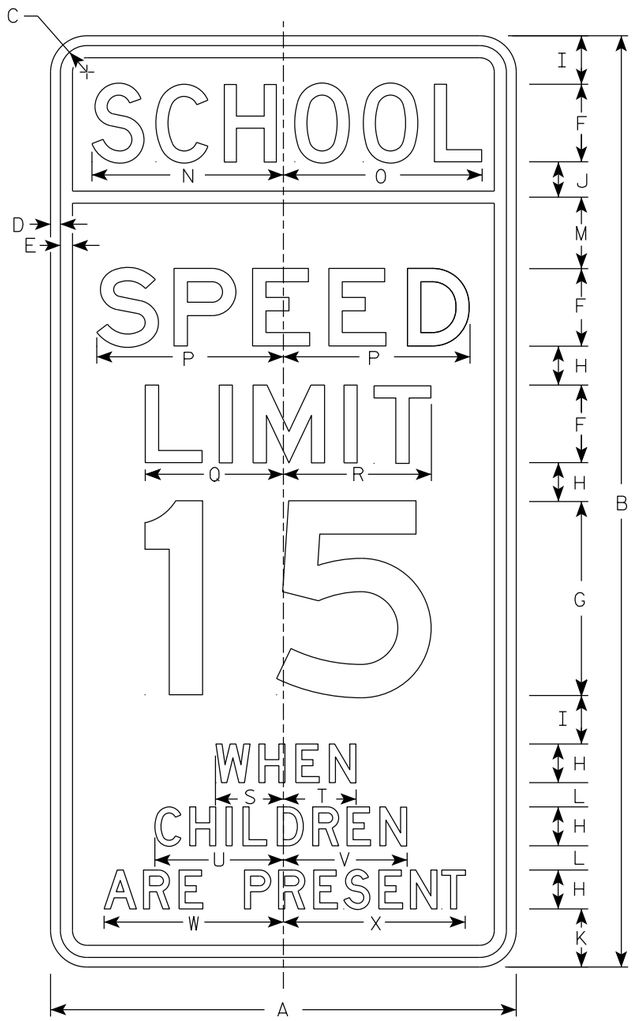
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 390	E



S4-51

NOTES

1. Sign is Type II - See Note 2 for Sheeting Type
2. Color:
   Background - See Note 4
   Message - Black
3. Message Series - See Note 5
4. Top panel (SCHOOL) background - Yellow Green - Type F Reflective
   Lower panel background - White - Type SH Reflective
5. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
6. Line 4 substitute appropriate numerals and 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	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00
3	36	72	2 1/4	3/4	1	6	15	3	3 3/4	2 3/4	4 1/2	1 7/8	5 1/2	15	15 1/4	14 1/2	11 1/4	11 1/2	5 1/2	5 3/4	10	9 3/4	14	14 1/8			18.00
4																											
5																											

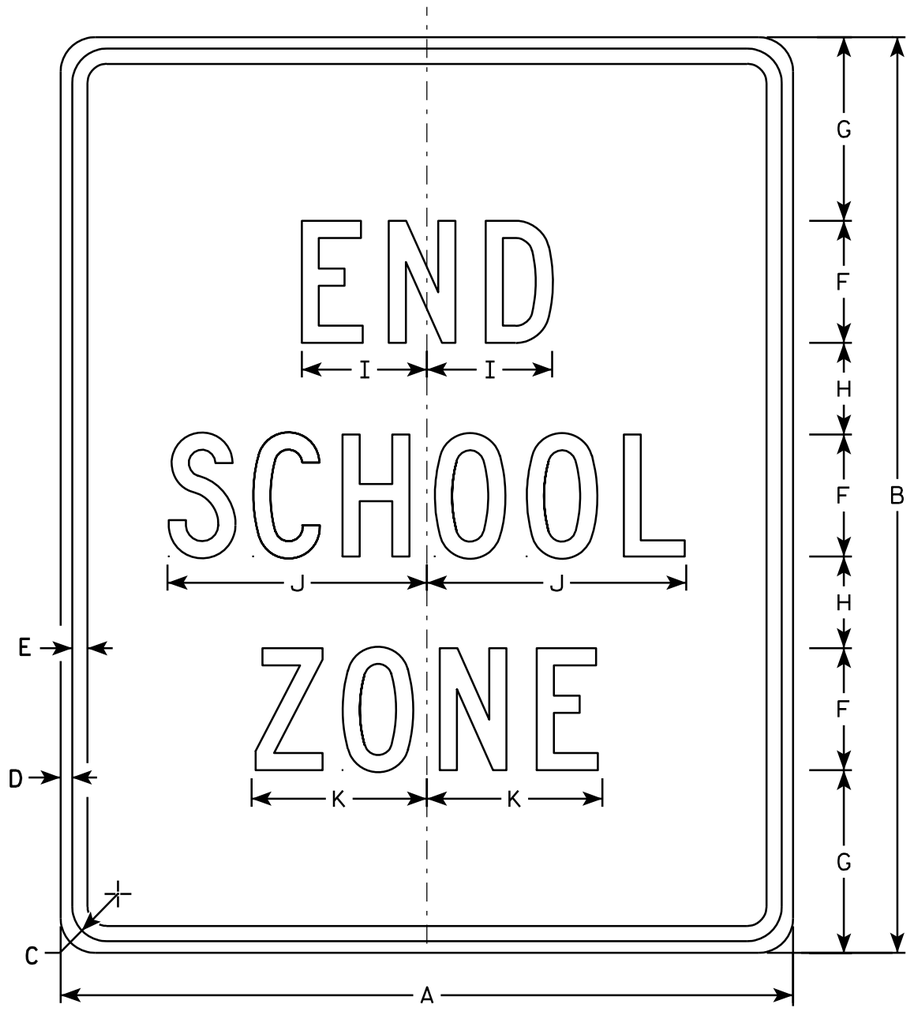
STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/27/2020 PLATE NO. S4-51.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 391 E



S5-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - 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.

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	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

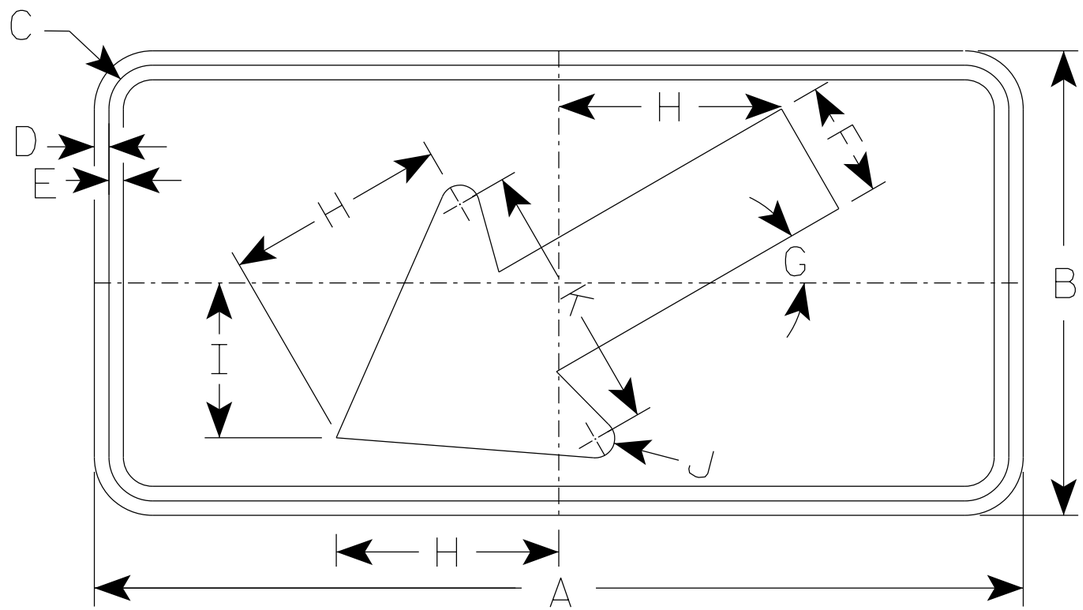
STANDARD SIGN
S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 392 | E



S16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow-Green
   Message - Black
3. S16-7R are the same as S16-7L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3/8	3/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5																											

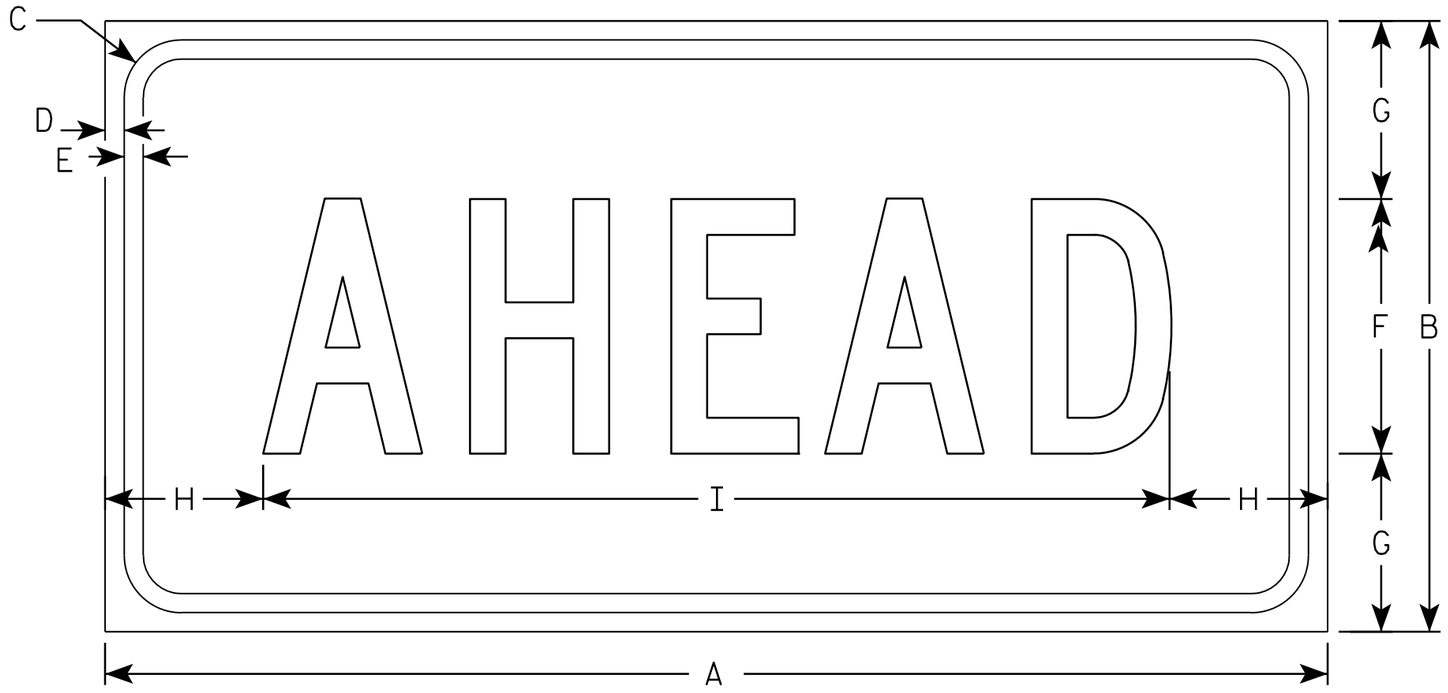
STANDARD SIGN
S16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/2021 PLATE NO. S16-7.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 393 E



S16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   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.

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	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

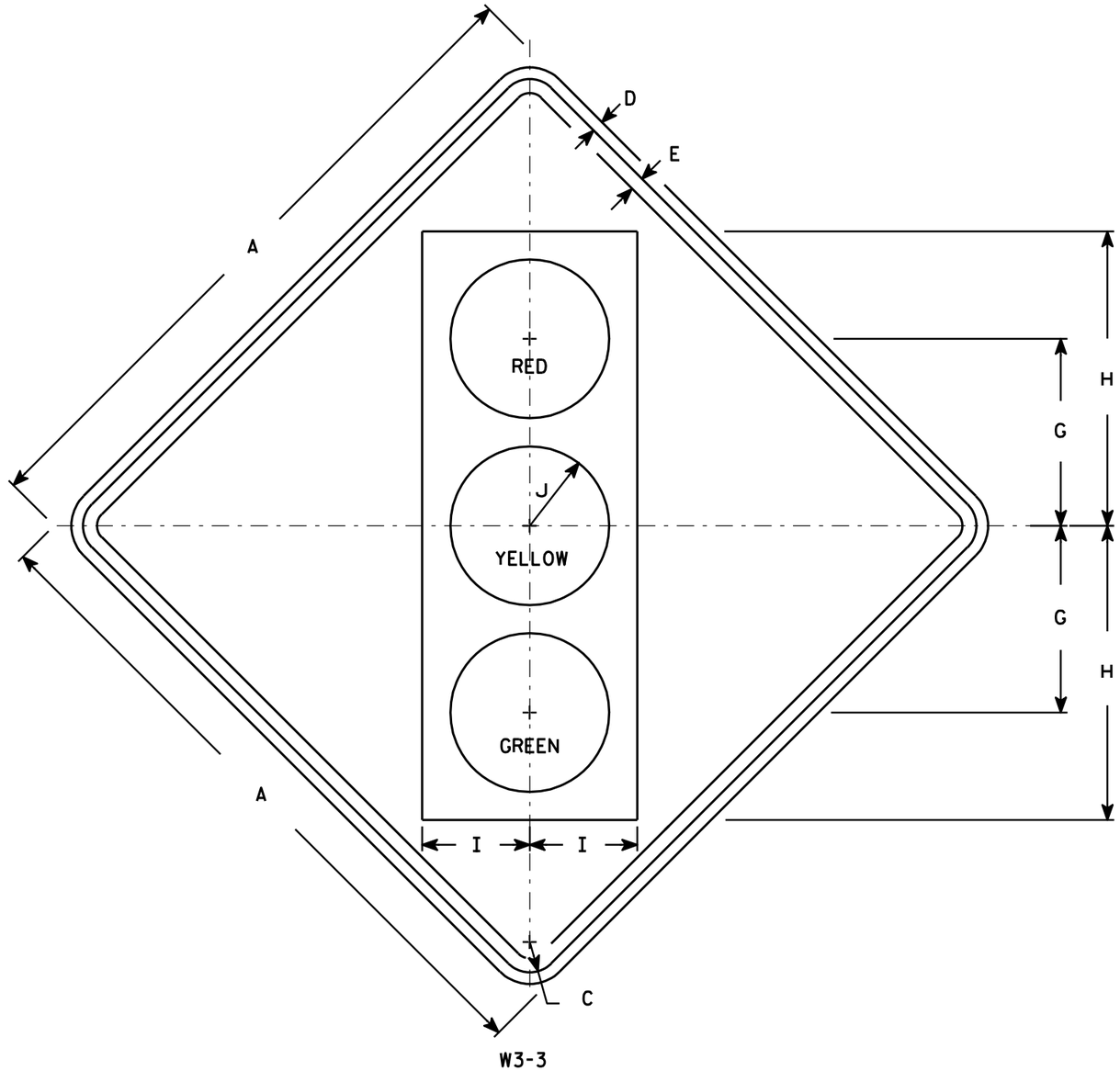
STANDARD SIGN
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 394 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - 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. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

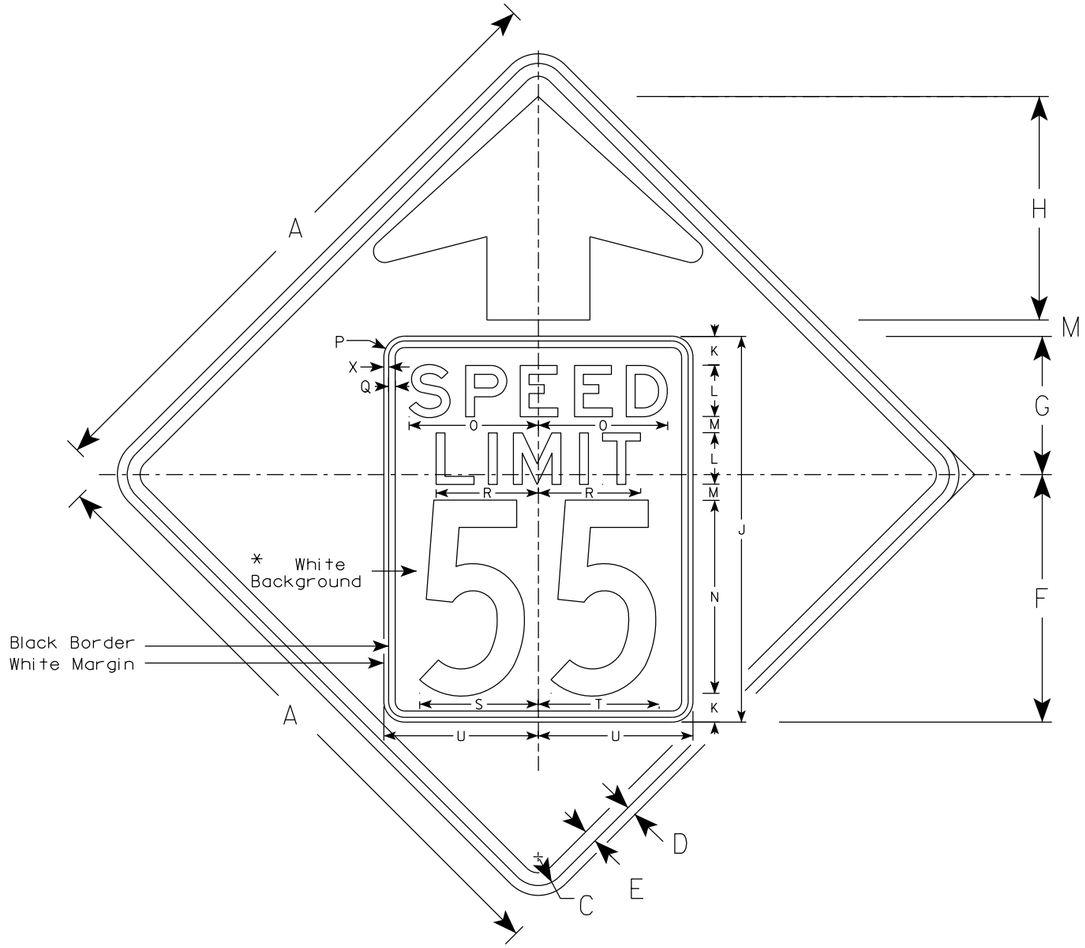
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 395 | E

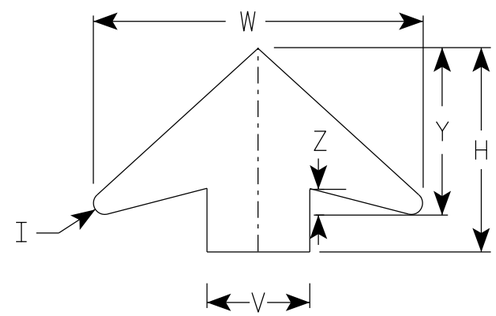


W3-5

NOTES

1. Sign is Type II - See Note 2 for Sheeting Type
2. Color: *
   Background - Yellow* (Type F Reflective)
   Message - Black
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background with black message (Type SH Reflective)



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	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

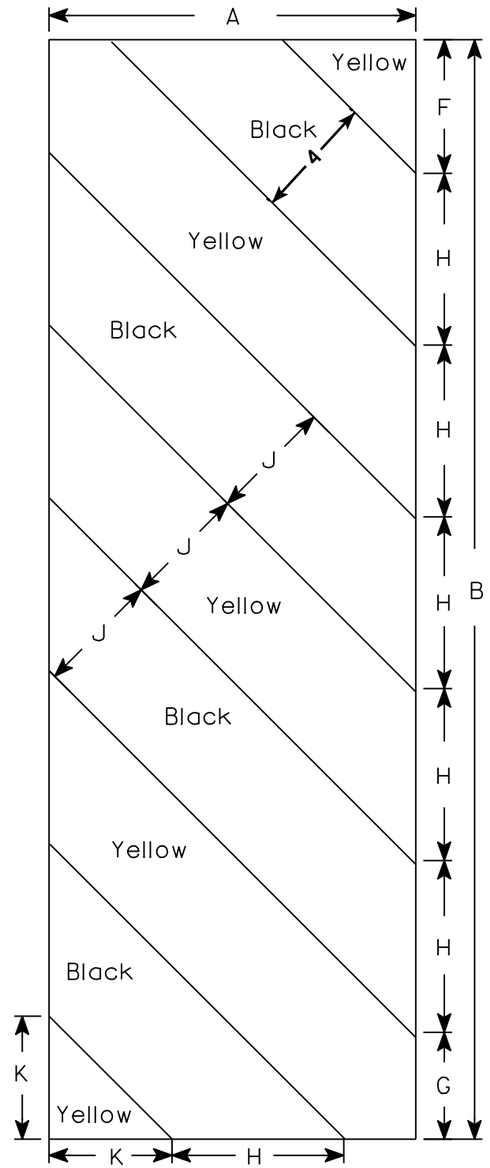
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew L Rauch
for State Traffic Engineer

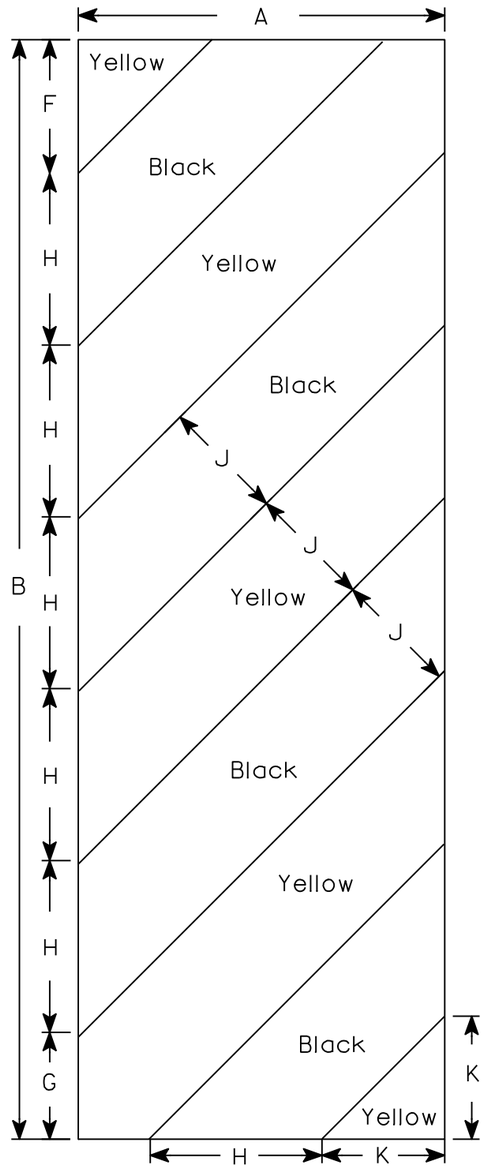
DATE 7/27/2020 PLATE NO. W3-5.6

PROJECT NO:

SHEET NO: 396 E



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

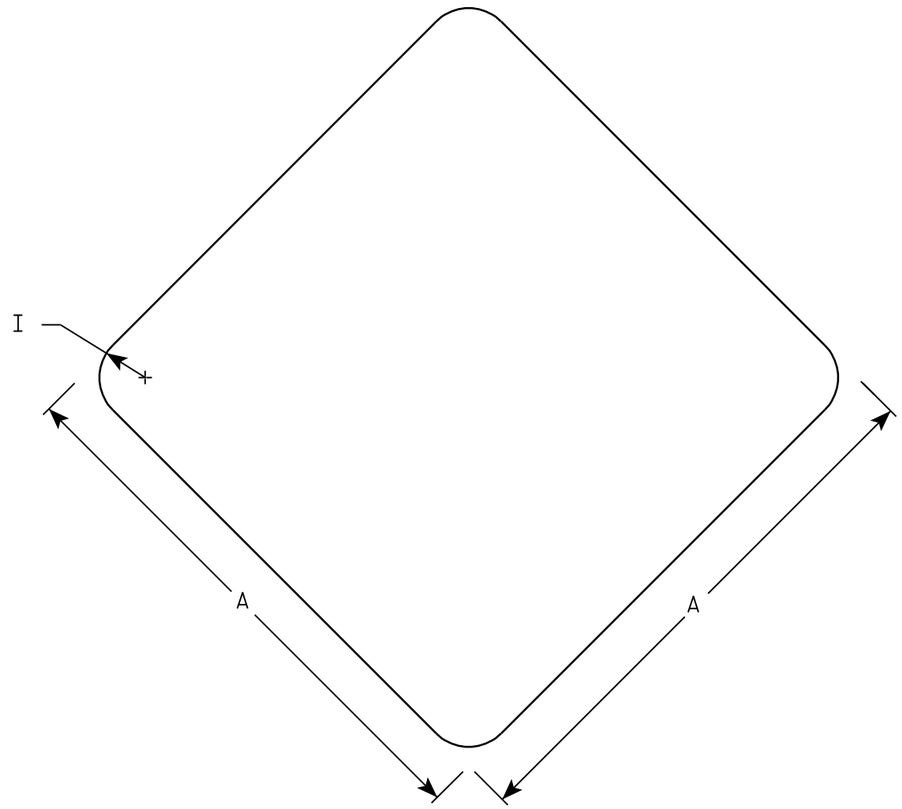
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 397	E



W5-54

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

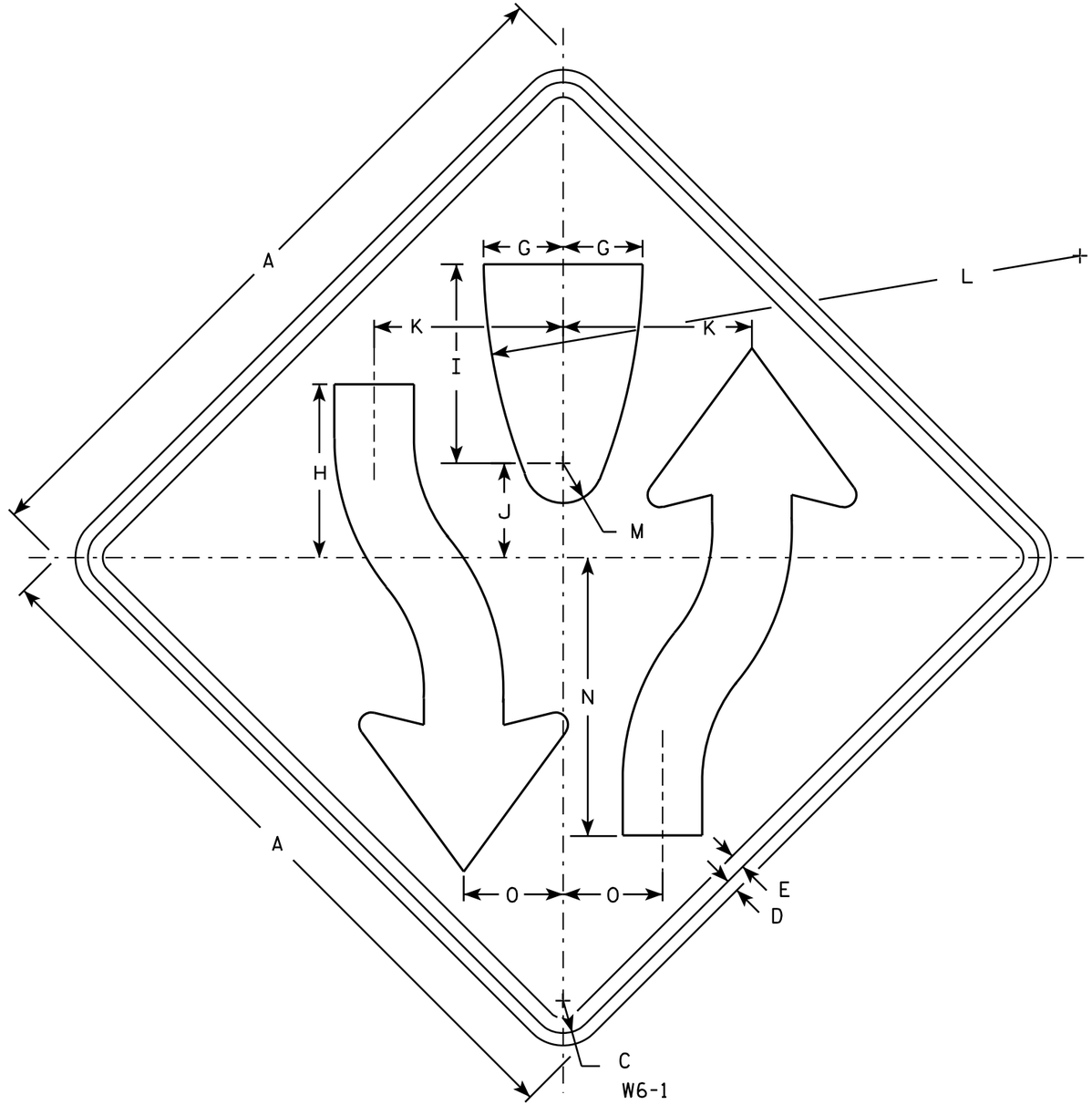
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

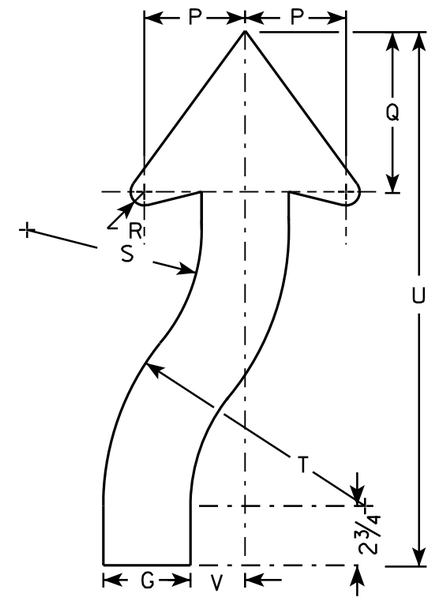
DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 398	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

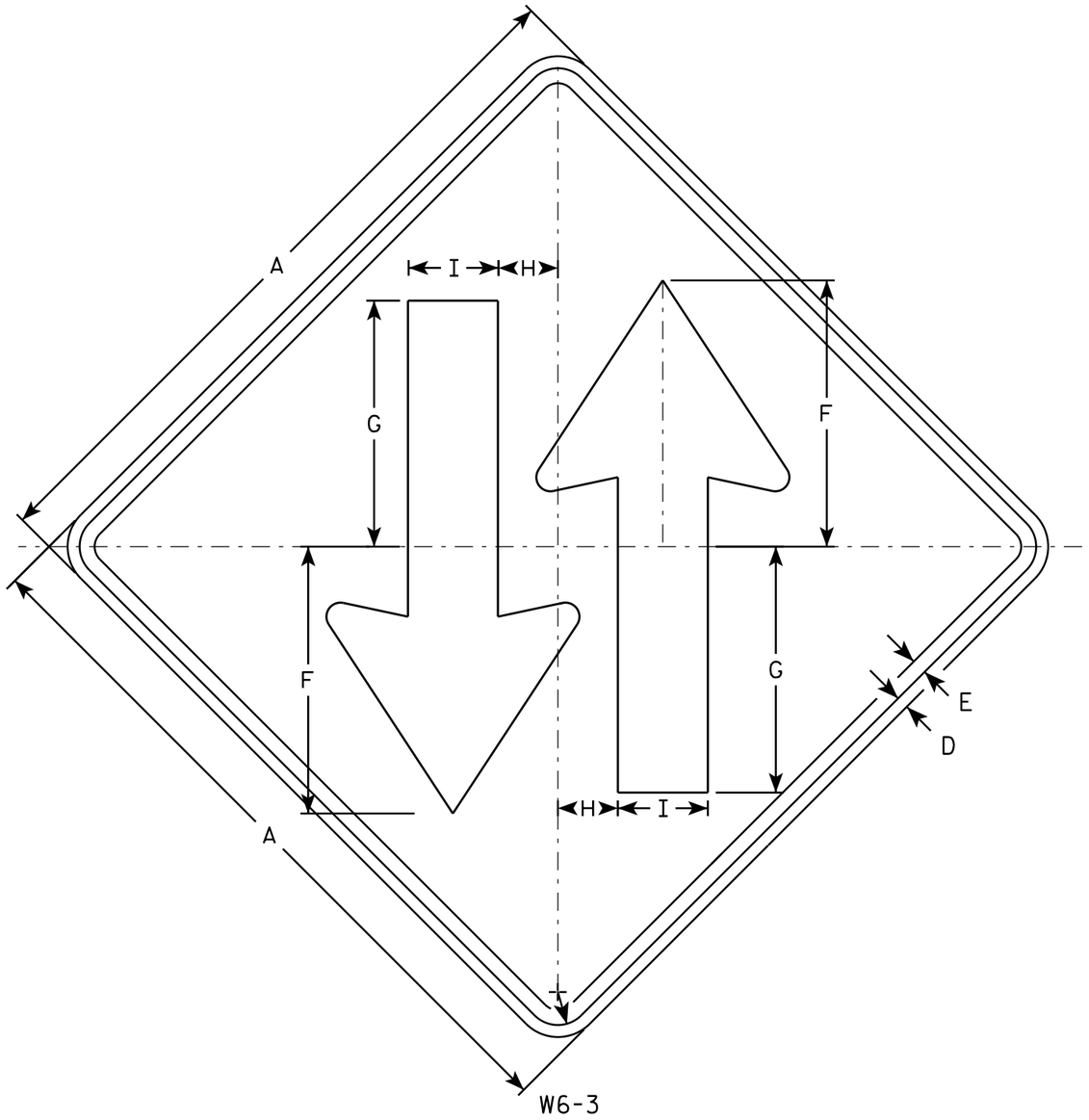
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 399	E

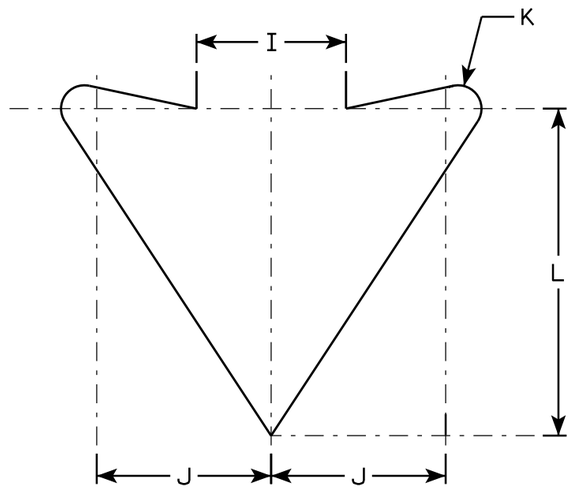
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



W6-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

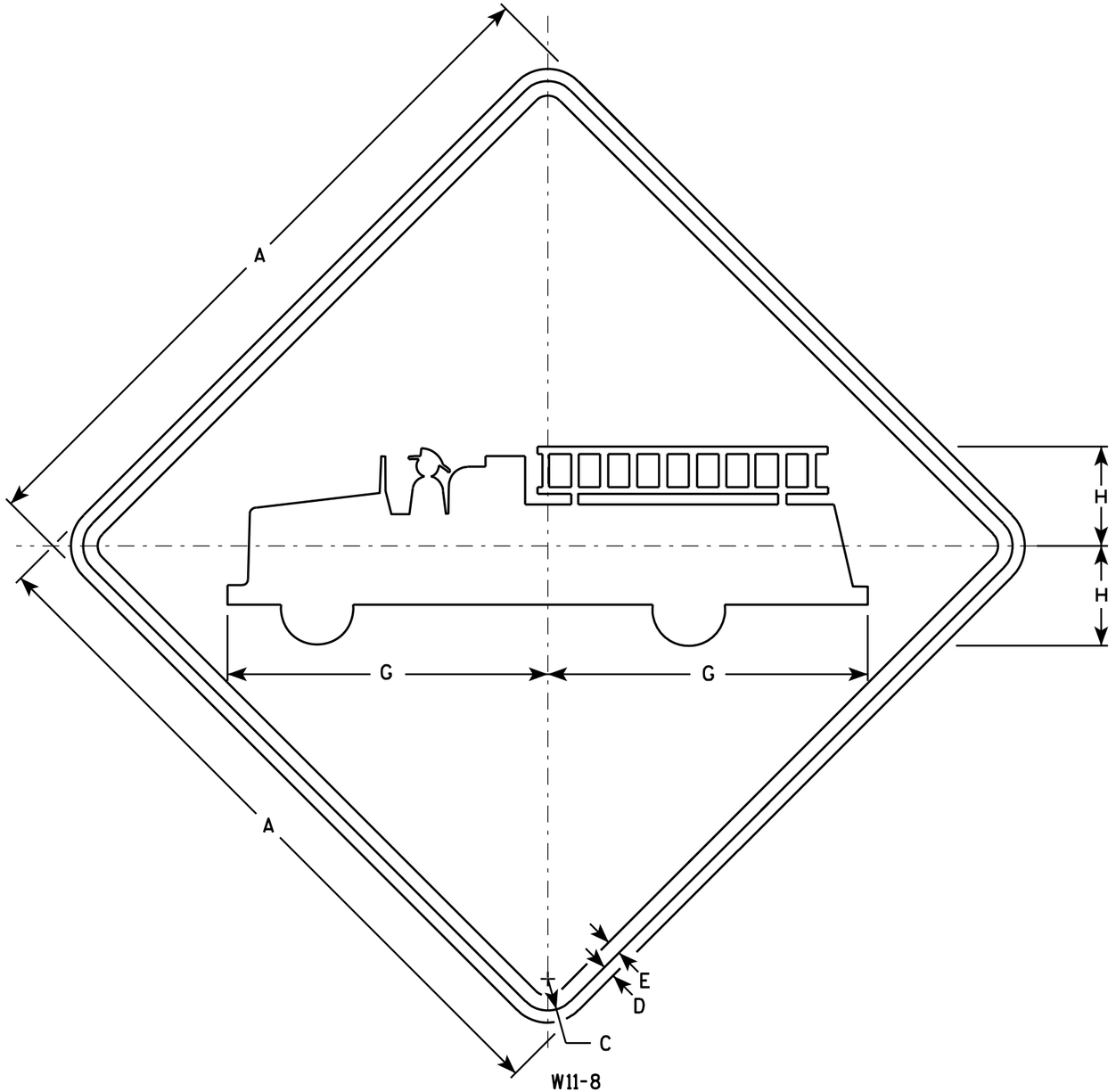
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

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

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000
WISDOT/CADDS SHEET 42



W11-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		11	3 3/8																			4.0
2S	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
2M	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
3	36		1 5/8	5/8	3/4		16 1/2	5 1/4																			9.0
4	48		2 1/4	3/4	1		22	7																			16.0
5																											

STANDARD SIGN
W11-8

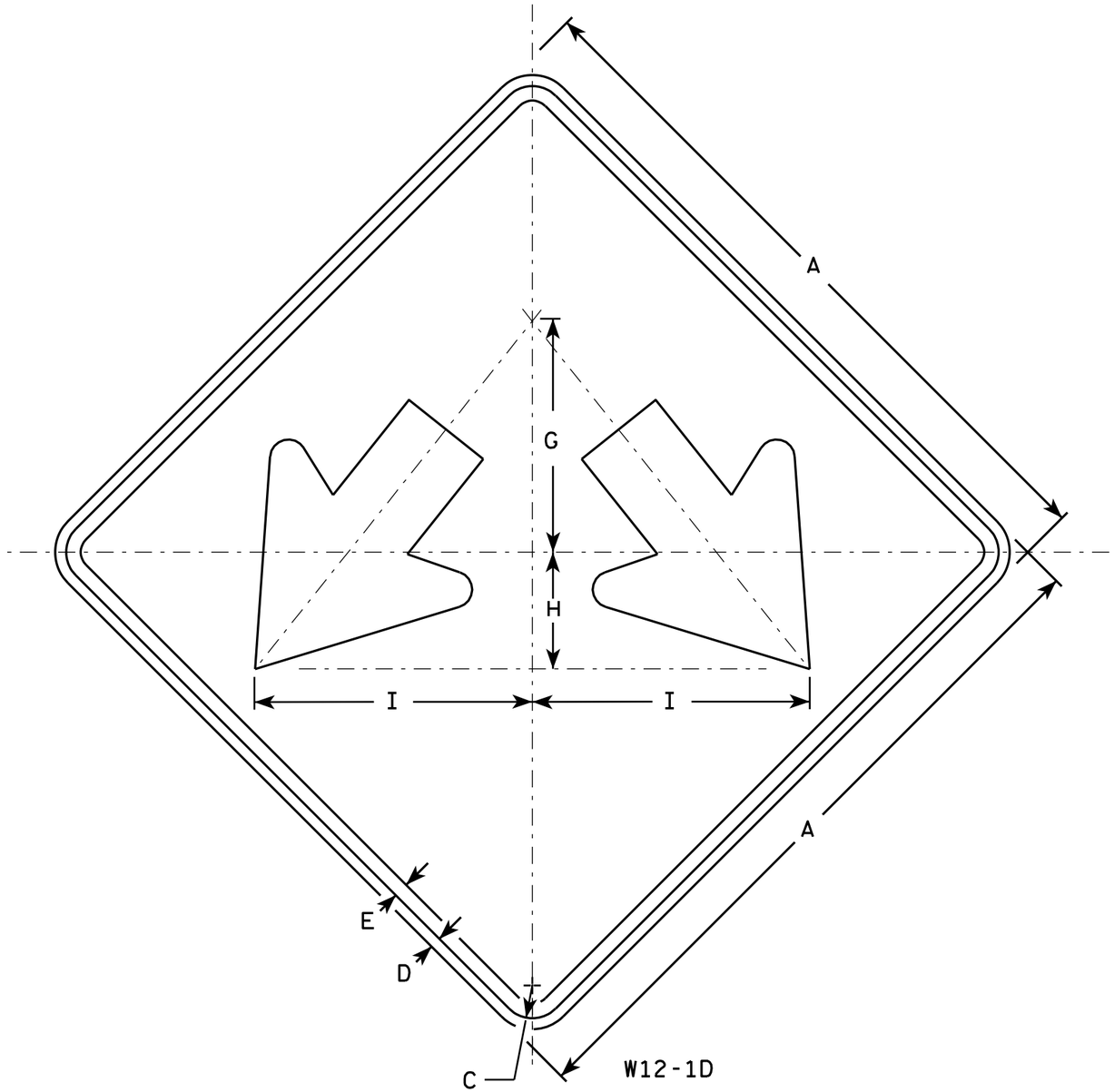
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-8.7

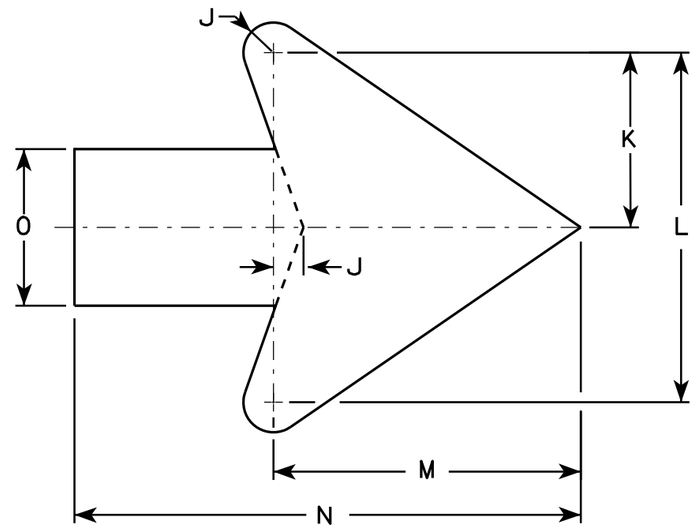
PROJECT NO:

SHEET NO: 401 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

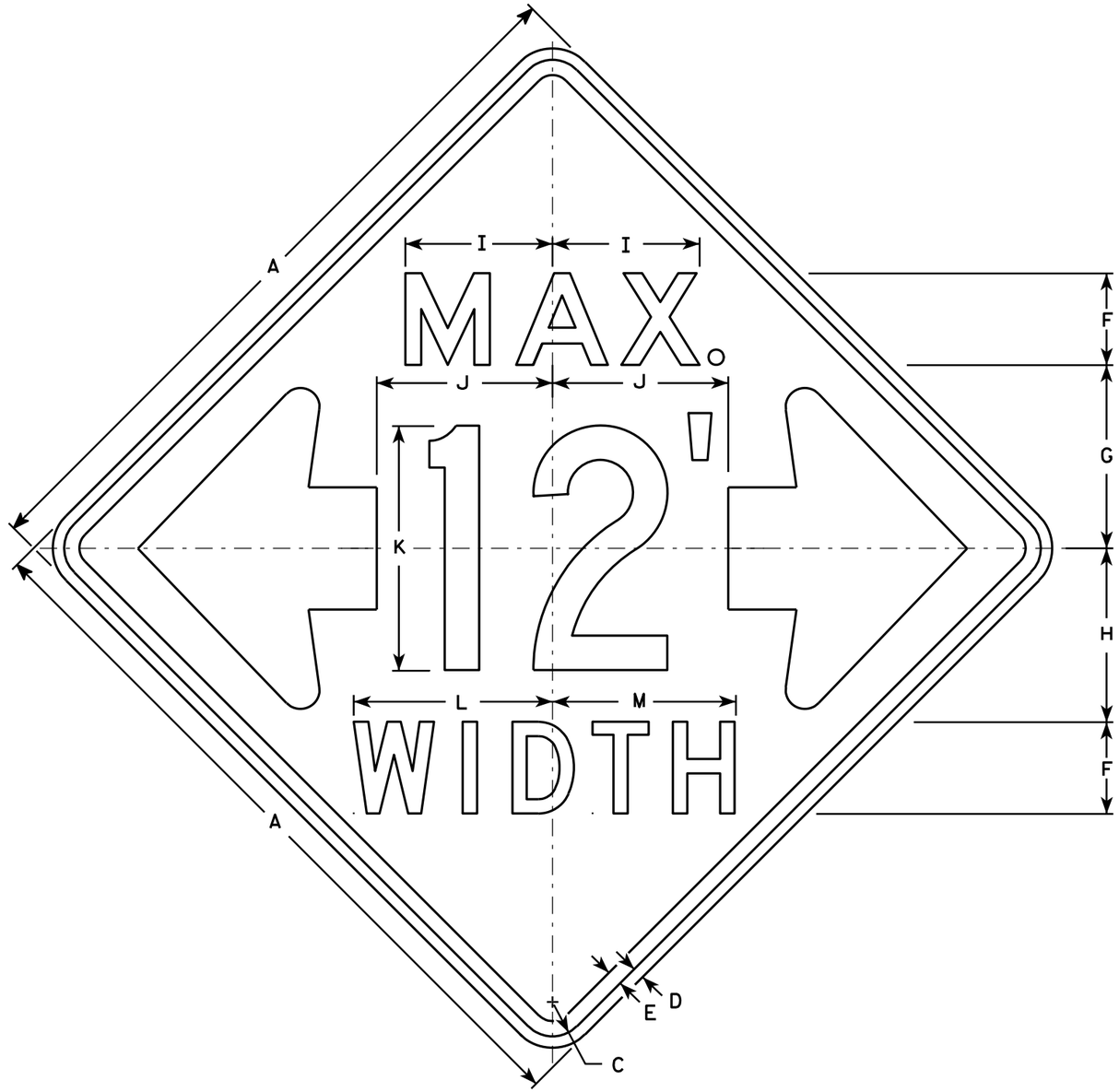
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

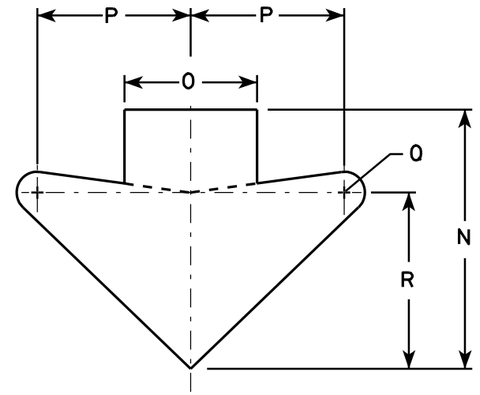
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 402	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

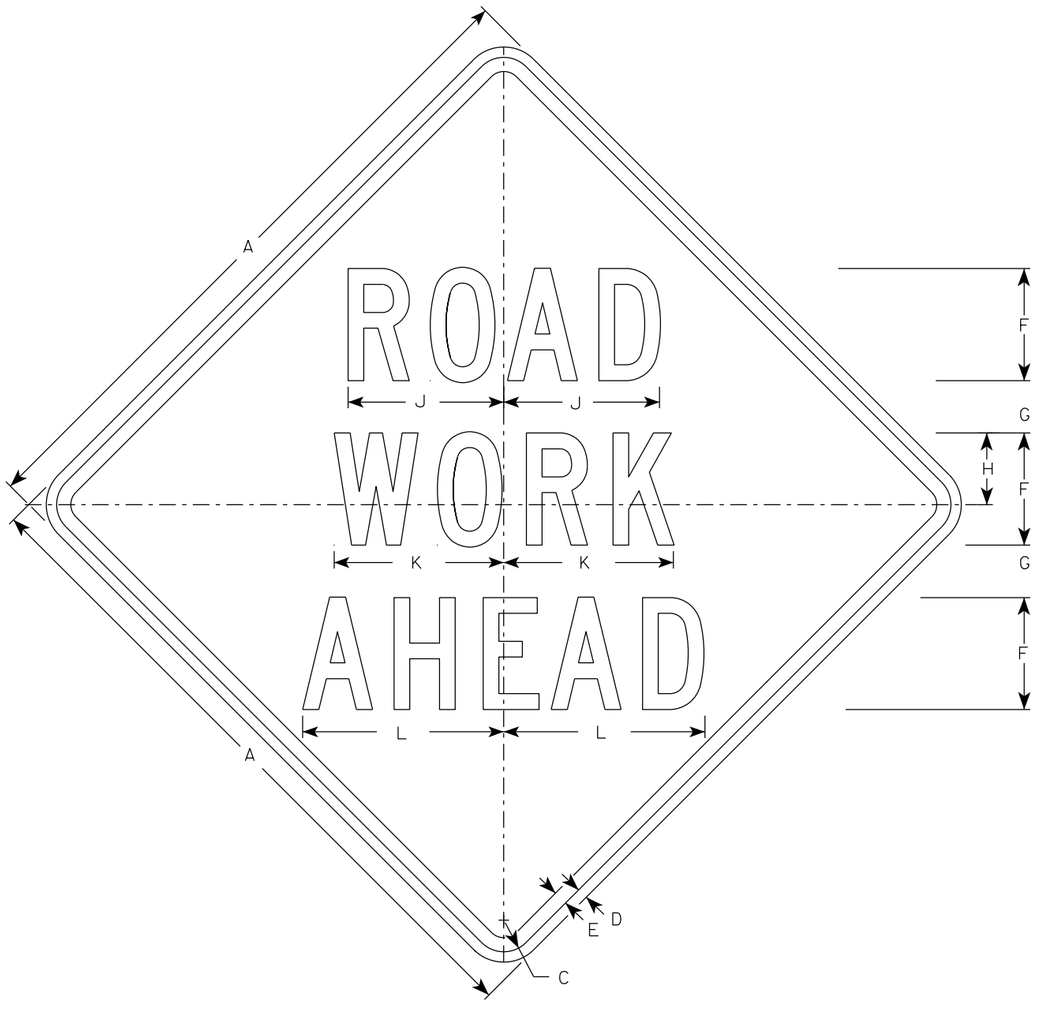
APPROVED Matthew R Rauch
for State Traffic Engineer

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

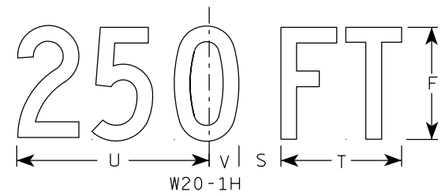
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 403 | E

7

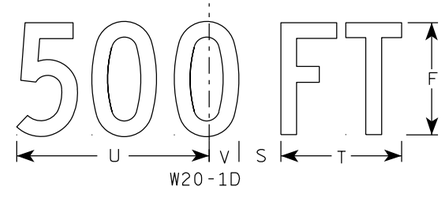
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42



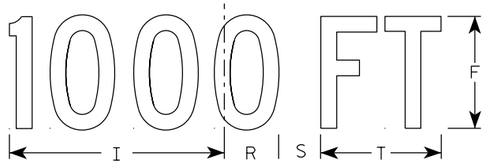
W20-1A



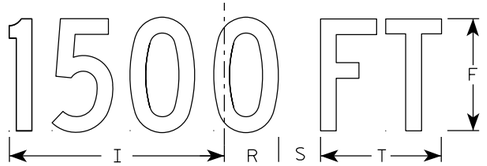
W20-1H



W20-1D



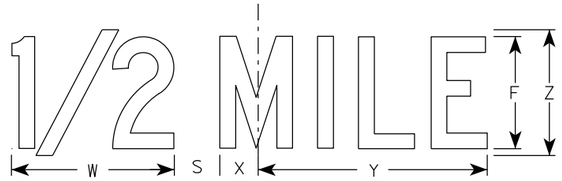
W20-1C



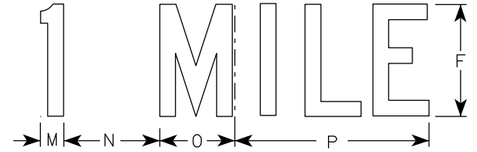
W20-1B

NOTES

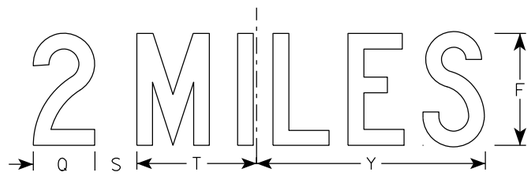
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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:

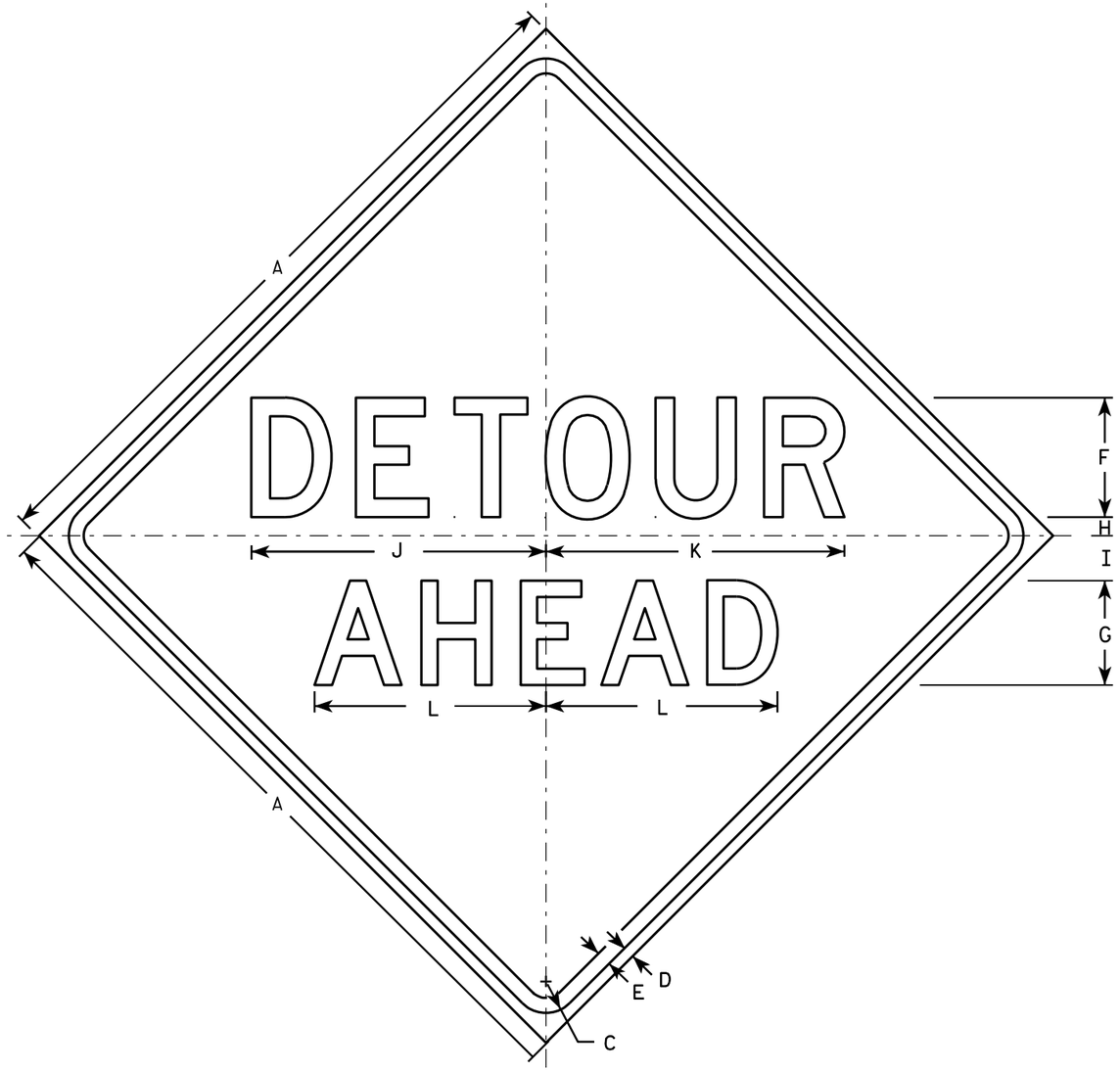
SHEET NO: E

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

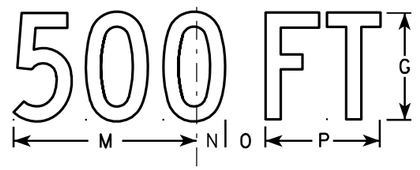
WISDOT/CADDS SHEET 42

7

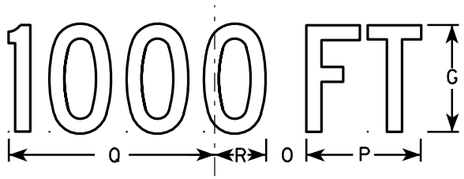
7



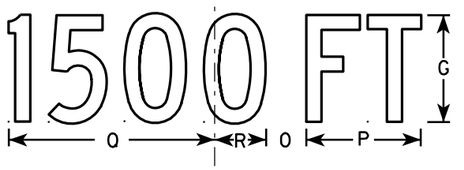
W20-2A



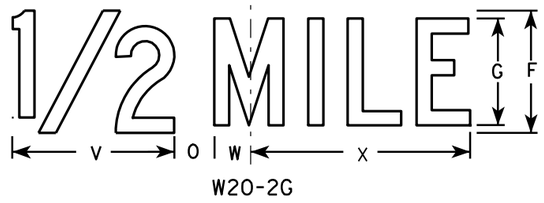
W20-2D



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	O	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

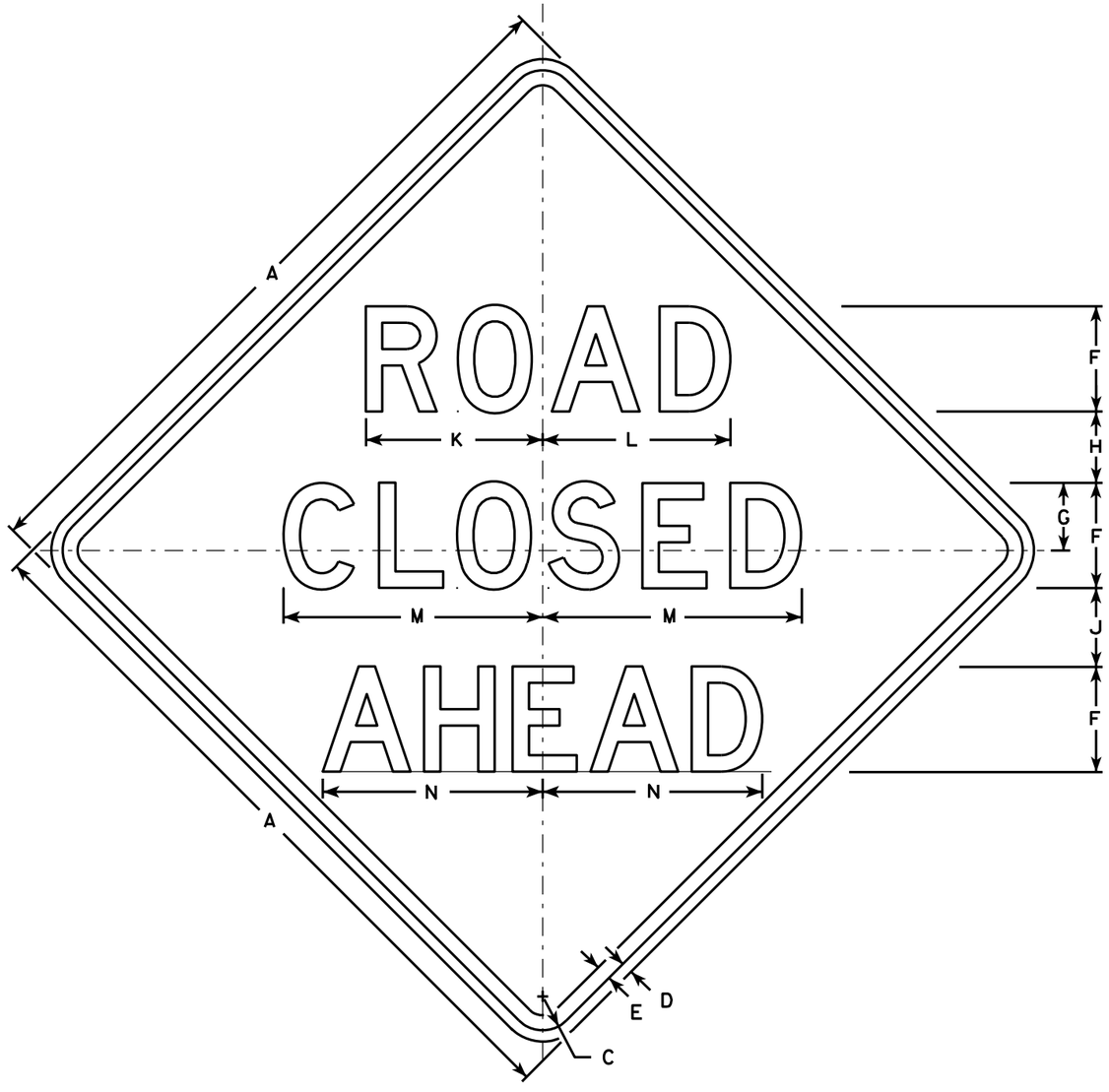
APPROVED Matthew R Rauch
for State Traffic Engineer

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

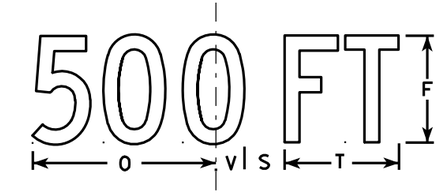
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 405 | E

7

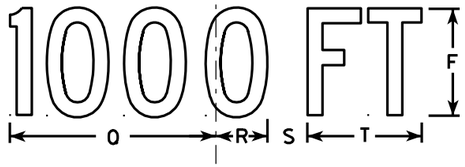
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN PLOT DATE : 18-MAR-2011 10:00 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



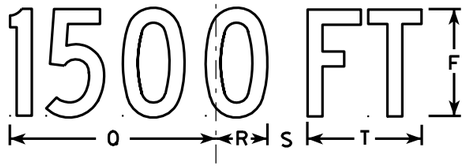
W20-3A



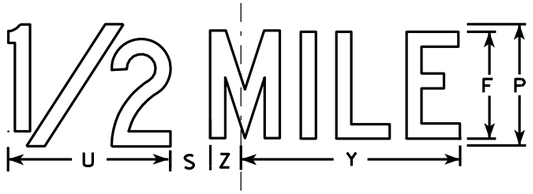
W20-3D



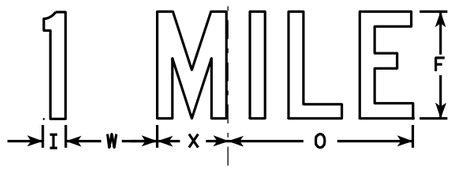
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

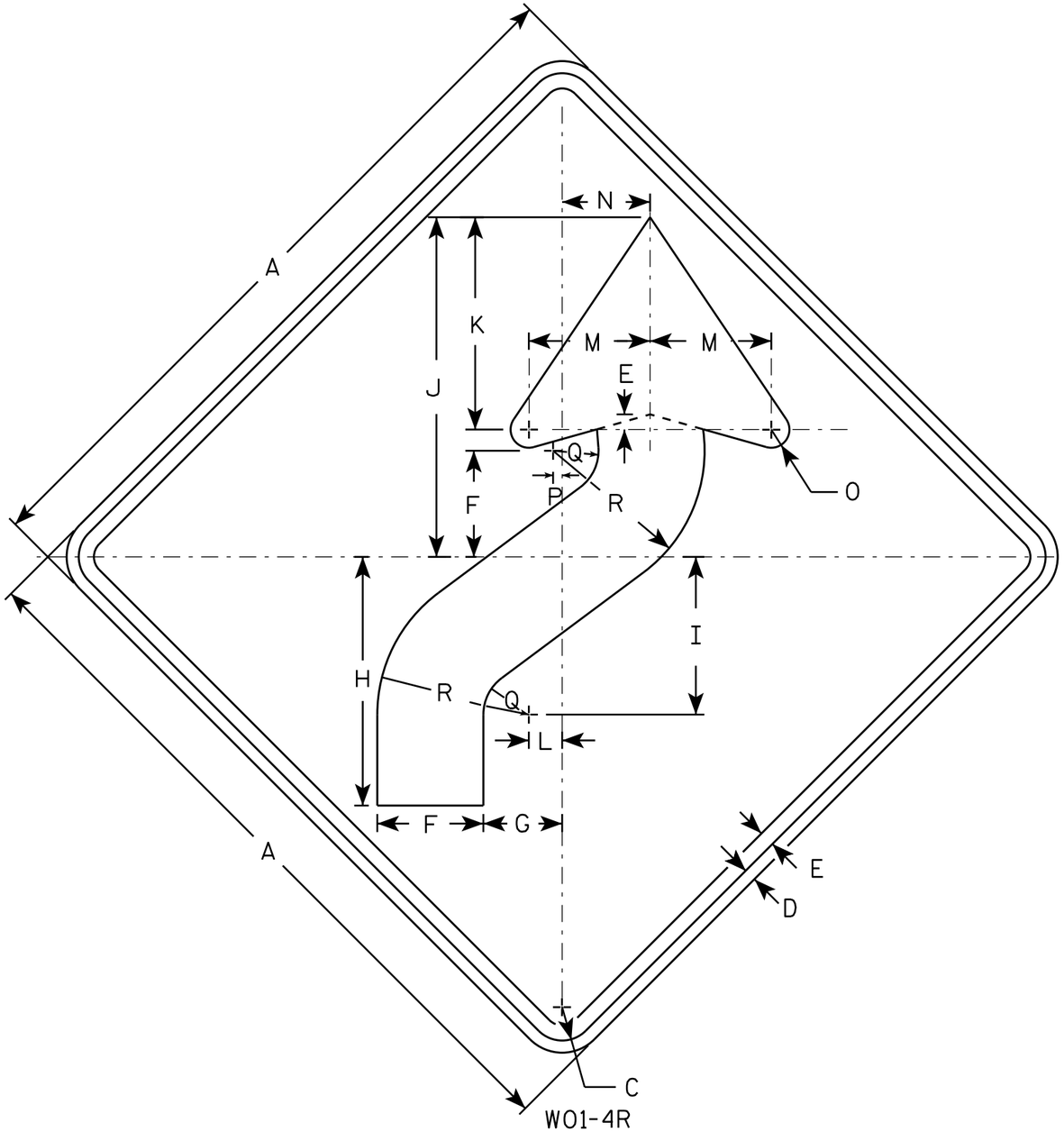
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 406 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



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

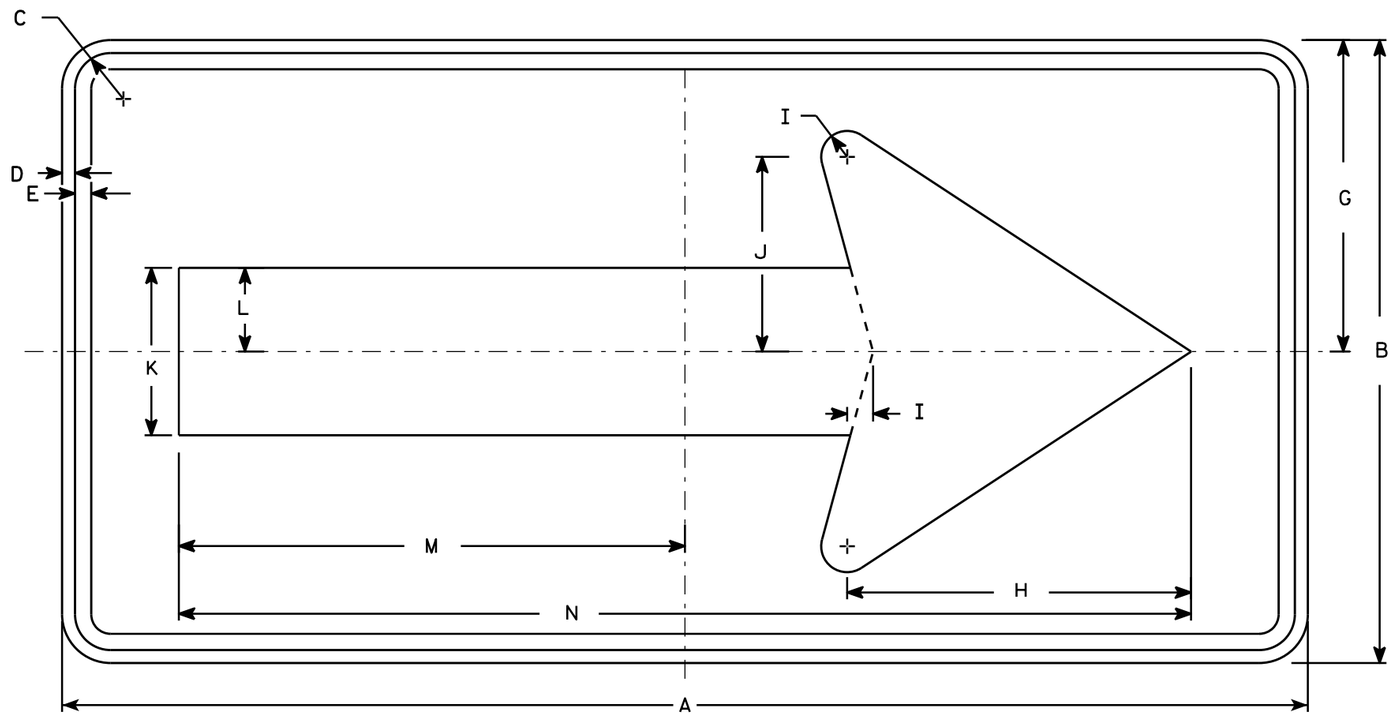
WISCONSIN DEPT OF TRANSPORTATION

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

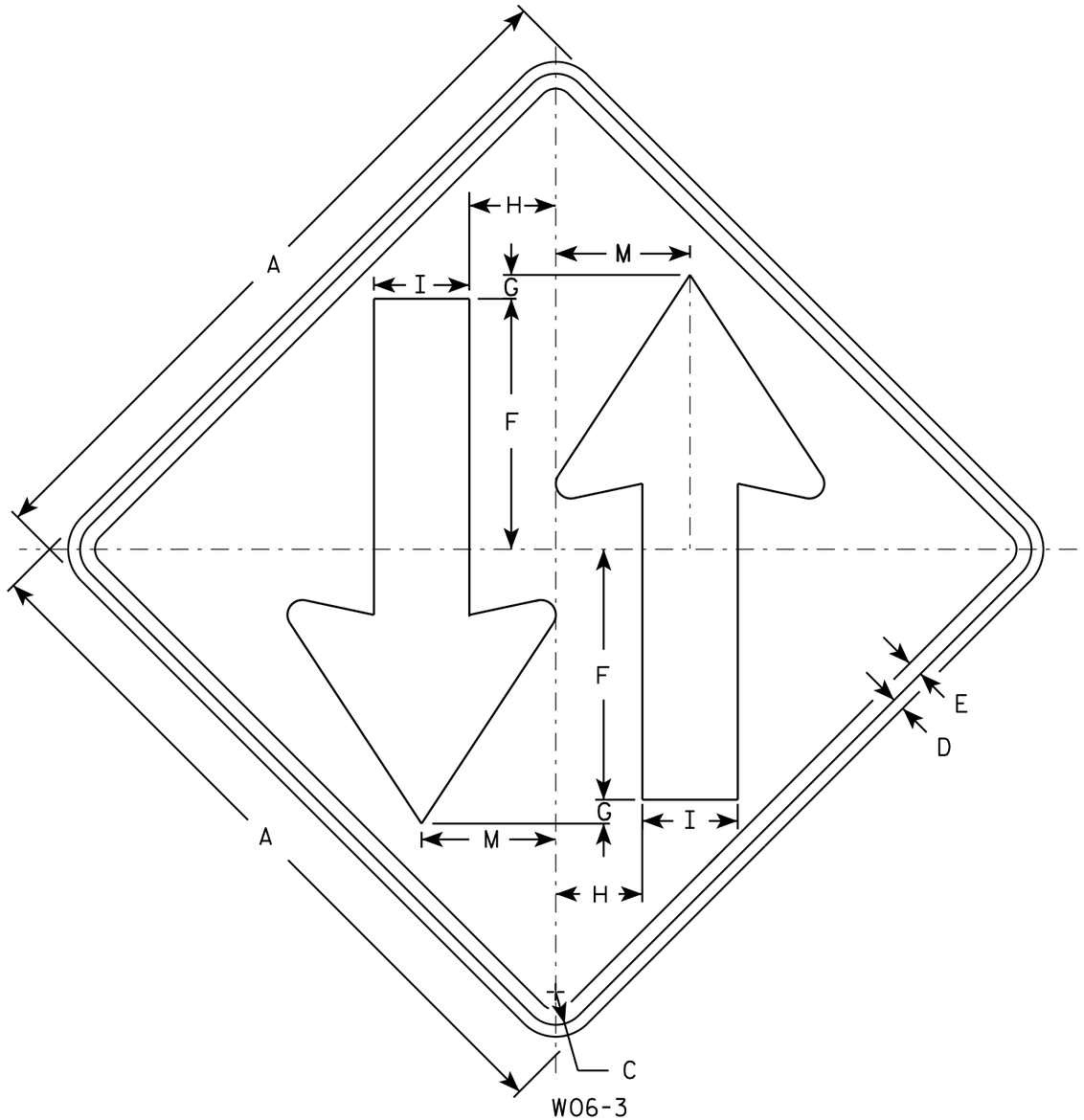
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

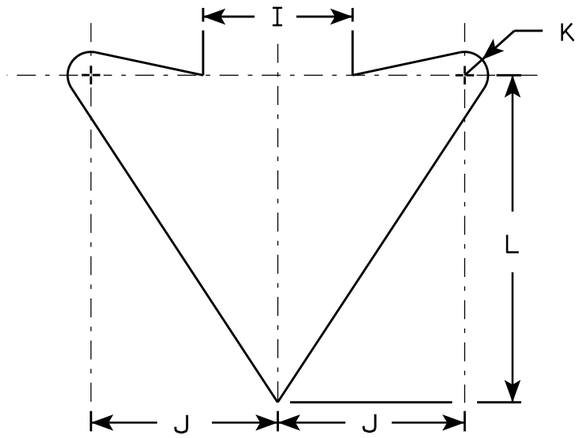
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W06-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

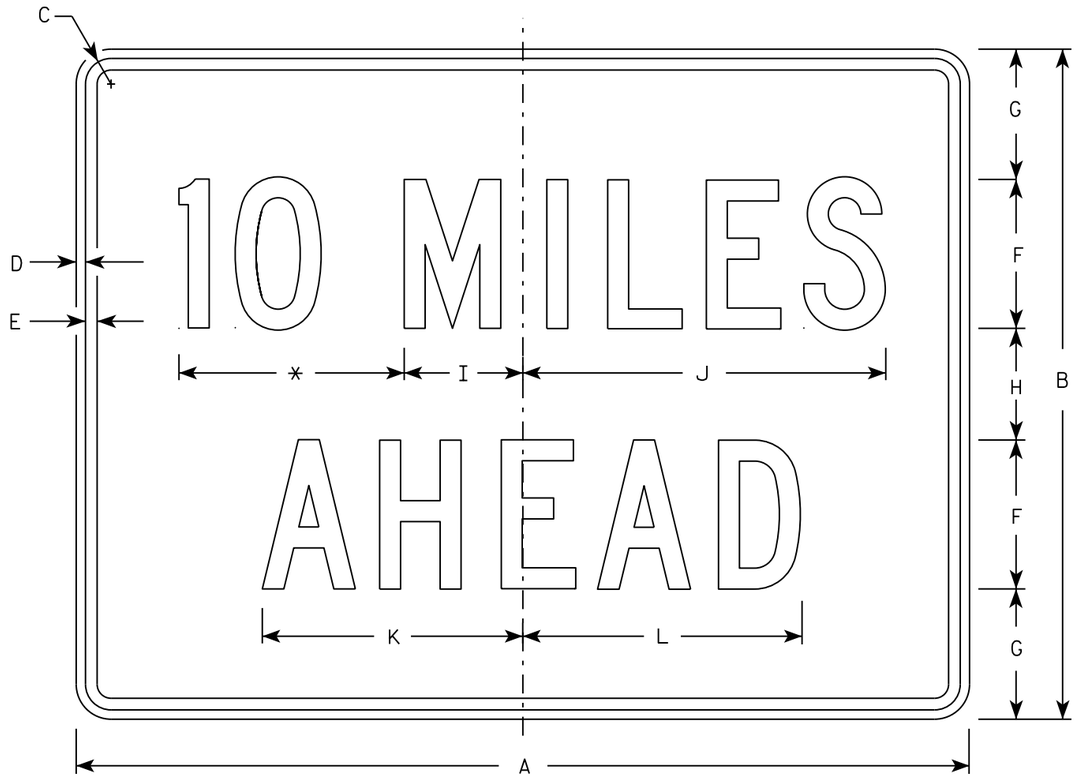
STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

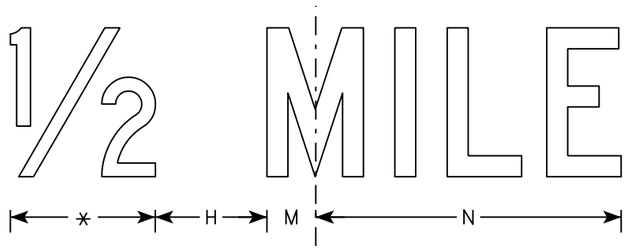
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 409 W06-3.1

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: 410	E

STH 35 - STAGE 1

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		1.00 NOTE 1	1.25	1.00 NOTE 4	1.00 NOTE 6	NOTE 8
161+25.00	16125.00	0.00	4.97	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
161+50.00	16150.00	25.00	7.86	0.00	0.00	0.00	6	0	0	0	6	0	0	0	6
162+00.00	16200.00	50.00	11.76	0.00	0.00	0.00	18	0	0	0	24	0	0	0	24
162+50.00	16250.00	50.00	11.88	0.00	0.00	0.00	22	0	0	0	46	0	0	0	46
163+00.00	16300.00	50.00	11.74	0.00	0.00	0.00	22	0	0	0	68	0	0	0	68
163+50.00	16350.00	50.00	11.76	0.00	0.00	0.00	22	0	0	0	90	0	0	0	90
164+00.00	16400.00	50.00	11.61	0.00	0.00	0.00	22	0	0	0	112	0	0	0	112
164+50.00	16450.00	50.00	11.34	0.00	0.00	0.00	21	0	0	0	133	0	0	0	133
165+00.00	16500.00	50.00	11.98	0.00	0.00	0.00	22	0	0	0	155	0	0	0	155
165+50.00	16550.00	50.00	15.57	0.00	0.00	0.00	26	0	0	0	181	0	0	0	181
166+00.00	16600.00	50.00	12.84	0.00	0.00	0.00	26	0	0	0	207	0	0	0	207
166+50.00	16650.00	50.00	9.34	0.00	0.20	0.00	21	0	0	0	228	0	0	0	228
167+00.00	16700.00	50.00	9.53	0.00	0.30	0.00	17	0	0	0	245	0	0	0	245
167+50.00	16750.00	50.00	10.64	0.00	0.82	0.00	19	0	1	0	264	1	0	0	263
168+00.00	16800.00	50.00	9.18	0.00	0.70	0.00	18	0	1	0	282	3	0	0	280
168+50.00	16850.00	50.00	9.59	0.00	0.06	0.00	17	0	1	0	299	4	0	0	295
169+00.00	16900.00	50.00	5.34	0.00	0.03	0.00	14	0	0	0	313	4	0	0	309
169+21.00	16921.00	21.00	4.91	0.00	0.00	0.00	4	0	0	0	317	4	0	0	313
174+16.00	17416.00	495.00	22.36	0.00	0.00	0.00	0	0	0	0	317	4	0	0	313
174+50.00	17450.00	34.00	7.27	0.00	5.71	0.00	19	0	4	0	336	9	0	0	327
175+00.00	17500.00	50.00	12.59	0.00	1.78	0.00	18	0	7	0	354	18	0	0	337
175+50.00	17550.00	50.00	37.51	0.00	0.00	0.00	46	0	2	0	400	20	0	0	380
176+00.00	17600.00	50.00	10.77	0.00	0.86	0.00	45	0	1	0	445	21	0	0	424
176+63.44	17663.44	63.44	25.40	0.00	0.00	0.00	42	0	1	0	487	23	0	0	465
177+00.00	17700.00	36.56	23.15	0.00	0.01	0.00	33	0	0	0	520	23	0	0	498
177+50.00	17750.00	50.00	11.23	0.00	0.29	0.00	32	0	0	0	552	23	0	0	530
178+00.00	17800.00	50.00	12.88	0.00	10.49	0.00	22	0	10	0	574	35	0	0	539
178+50.00	17850.00	50.00	8.65	0.00	12.64	0.00	20	0	21	0	594	61	0	0	533
179+00.00	17900.00	50.00	7.67	0.00	34.30	0.00	15	0	43	0	609	115	0	0	494
179+50.00	17950.00	50.00	7.66	0.00	59.51	0.00	14	0	87	0	623	224	0	0	399
180+00.00	18000.00	50.00	7.19	0.00	69.62	0.00	14	0	120	0	637	374	0	0	263
180+50.00	18050.00	50.00	7.01	0.00	62.16	0.00	13	0	122	0	650	526	0	0	124
181+00.00	18100.00	50.00	6.34	0.00	82.51	0.00	12	0	134	0	662	694	0	0	-32
181+50.00	18150.00	50.00	6.45	0.00	85.95	0.00	12	0	156	0	674	889	0	0	-215
182+00.00	18200.00	50.00	6.79	0.00	83.65	0.00	12	0	157	0	686	1,085	0	0	-399
182+50.00	18250.00	50.00	6.00	0.00	101.55	0.00	12	0	171	0	698	1,299	0	0	-601
183+00.00	18300.00	50.00	7.36	0.00	61.72	0.00	12	0	151	0	710	1,488	0	0	-778
183+50.00	18350.00	50.00	7.26	0.00	20.99	0.00	14	0	77	0	724	1,584	0	0	-860
184+00.00	18400.00	50.00	6.34	0.00	2.69	0.00	13	0	22	0	737	1,611	0	0	-874
185+00.00	18500.00	100.00	8.11	0.00	0.00	0.00	0	0	0	0	737	1,611	0	0	-874

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

STH 35 - STAGE 1

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		1.00 NOTE 1	1.25	1.00 NOTE 4	1.00 NOTE 6	NOTE 8
185+50.00	18550.00	50.00	13.79	0.00	0.03	0.00	20	0	0	0	757	1,611	0	0	-854
186+00.00	18600.00	50.00	10.26	0.00	2.06	0.00	22	0	2	0	779	1,614	0	0	-835
186+50.00	18650.00	50.00	10.65	0.00	1.06	0.00	19	0	3	0	798	1,618	0	0	-820
187+00.00	18700.00	50.00	15.80	0.00	0.13	0.00	24	0	1	0	822	1,619	0	0	-797
187+50.00	18750.00	50.00	18.53	0.00	0.00	0.00	32	0	0	0	854	1,619	0	0	-765
188+00.00	18800.00	50.00	11.25	0.00	0.00	0.00	28	0	0	0	882	1,619	0	0	-737
188+50.00	18850.00	50.00	7.71	0.00	0.00	0.00	18	0	0	0	900	1,619	0	0	-719
189+00.00	18900.00	50.00	7.32	0.00	0.00	0.00	14	0	0	0	914	1,619	0	0	-705
189+50.00	18950.00	50.00	6.91	0.00	0.00	0.00	13	0	0	0	927	1,619	0	0	-692
190+63.71	19063.71	113.71	10.45	0.00	0.00	0.00	0	0	0	0	927	1,619	0	0	-692
191+00.00	19100.00	36.29	20.63	0.00	0.13	0.00	21	0	0	0	948	1,619	0	0	-671
191+50.00	19150.00	50.00	29.35	0.00	0.05	0.00	46	0	0	0	994	1,619	0	0	-625
192+00.00	19200.00	50.00	29.17	0.00	0.23	0.00	54	0	0	0	1,048	1,619	0	0	-571
192+50.00	19250.00	50.00	30.26	0.00	0.06	0.00	55	0	0	0	1,103	1,619	0	0	-516
193+00.00	19300.00	50.00	31.75	0.00	0.00	0.00	57	0	0	0	1,160	1,619	0	0	-459
193+50.00	19350.00	50.00	38.97	0.00	0.00	0.00	65	0	0	0	1,225	1,619	0	0	-394
194+00.00	19400.00	50.00	38.16	0.00	0.00	0.00	71	0	0	0	1,296	1,619	0	0	-323
194+50.00	19450.00	50.00	38.00	0.00	0.74	0.00	71	0	1	0	1,367	1,620	0	0	-253
194+82.62	19482.62	32.62	19.83	0.00	0.00	0.00	35	0	0	0	1,402	1,620	0	0	-218

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

STH 35 - STAGE 2

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
											1.00	1.25	1.00	1.00	
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 6	NOTE 8
160+27.62	16027.62	0.00	23.82	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
160+50.00	16050.00	22.38	22.83	0.00	0.00	0.00	19	0	0	0	19	0	0	0	19
160+76.00	16076.00	26.00	67.02	0.00	0.00	0.00	43	0	0	0	62	0	0	0	62
161+00.00	16100.00	24.00	66.78	0.00	0.00	0.00	59	0	0	0	121	0	0	0	121
161+50.00	16150.00	50.00	77.29	0.00	0.00	0.00	133	0	0	0	254	0	0	0	254
162+00.00	16200.00	50.00	75.14	0.00	0.00	0.00	141	0	0	0	395	0	0	0	395
162+50.00	16250.00	50.00	70.56	0.00	0.00	0.00	135	0	0	0	530	0	0	0	530
163+00.00	16300.00	50.00	60.85	0.00	0.00	0.00	122	0	0	0	652	0	0	0	652
163+50.00	16350.00	50.00	53.73	0.00	0.00	0.00	106	0	0	0	758	0	0	0	758
164+00.00	16400.00	50.00	51.68	0.00	0.00	0.00	98	0	0	0	856	0	0	0	856
164+50.00	16450.00	50.00	69.14	0.00	0.00	0.00	112	0	0	0	968	0	0	0	968
165+00.00	16500.00	50.00	72.34	0.00	0.00	0.00	131	0	0	0	1,099	0	0	0	1,099
165+50.00	16550.00	50.00	75.53	0.00	0.00	0.00	137	0	0	0	1,236	0	0	0	1,236
166+00.00	16600.00	50.00	72.93	0.00	0.00	0.00	137	0	0	0	1,373	0	0	0	1,373
166+50.00	16650.00	50.00	78.88	0.00	0.00	0.00	141	0	0	0	1,514	0	0	0	1,514
167+00.00	16700.00	50.00	0.00	0.00	0.00	0.00	73	0	0	0	1,587	0	0	0	1,587
167+04.00	16704.00	4.00	83.07	0.00	0.00	0.00	6	0	0	0	1,593	0	0	0	1,593
167+50.00	16750.00	46.00	72.65	0.00	0.00	0.00	133	0	0	0	1,726	0	0	0	1,726
168+00.00	16800.00	50.00	56.96	0.00	0.00	0.00	120	0	0	0	1,846	0	0	0	1,846
168+50.00	16850.00	50.00	56.40	0.00	0.01	0.00	105	0	0	0	1,951	0	0	0	1,951
169+00.00	16900.00	50.00	57.55	0.00	0.00	0.00	106	0	0	0	2,057	0	0	0	2,057
169+50.00	16950.00	50.00	53.34	0.00	0.00	0.00	103	0	0	0	2,160	0	0	0	2,160
170+00.00	17000.00	50.00	43.69	0.00	0.00	0.00	90	0	0	0	2,250	0	0	0	2,250
170+50.00	17050.00	50.00	37.64	0.00	0.00	0.00	75	0	0	0	2,325	0	0	0	2,325
171+00.00	17100.00	50.00	40.85	0.00	0.00	0.00	73	0	0	0	2,398	0	0	0	2,398
171+50.00	17150.00	50.00	50.04	0.00	0.00	0.00	84	0	0	0	2,482	0	0	0	2,482
172+00.00	17200.00	50.00	54.76	0.00	0.00	0.00	97	0	0	0	2,579	0	0	0	2,579
172+50.00	17250.00	50.00	37.99	0.00	0.15	0.00	86	0	0	0	2,665	0	0	0	2,665
173+00.00	17300.00	50.00	43.88	0.00	0.00	0.00	76	0	0	0	2,741	0	0	0	2,741
173+50.00	17350.00	50.00	47.26	0.00	0.00	0.00	84	0	0	0	2,825	0	0	0	2,825
174+00.00	17400.00	50.00	56.69	0.00	0.00	0.00	96	0	0	0	2,921	0	0	0	2,921
174+50.00	17450.00	50.00	59.70	0.00	0.00	0.00	108	0	0	0	3,029	0	0	0	3,029
175+00.00	17500.00	50.00	46.35	0.00	0.00	0.00	98	0	0	0	3,127	0	0	0	3,127
175+50.00	17550.00	50.00	30.89	0.00	0.00	0.00	72	0	0	0	3,199	0	0	0	3,199
176+00.00	17600.00	50.00	27.49	0.00	0.84	0.00	54	0	1	0	3,253	1	0	0	3,252
176+50.00	17650.00	50.00	0.00	0.00	0.00	0.00	25	0	1	0	3,278	3	0	0	3,276
176+66.00	17666.00	16.00	21.07	0.00	2.54	0.00	6	0	1	0	3,284	4	0	0	3,280
177+00.00	17700.00	34.00	22.36	0.00	2.53	0.00	27	0	3	0	3,311	8	0	0	3,304
177+50.00	17750.00	50.00	23.59	0.00	0.00	0.00	43	0	2	0	3,354	10	0	0	3,344
178+00.00	17800.00	50.00	24.11	0.00	2.17	0.00	44	0	2	0	3,398	13	0	0	3,386

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

STH 35 - STAGE 2

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		1.00 NOTE 1	1.25	1.00 NOTE 4	1.00 NOTE 6	NOTE 8
178+50.00	17850.00	50.00	22.38	0.00	17.94	0.00	43	0	19	0	3,441	36	0	0	3,405
179+00.00	17900.00	50.00	24.67	0.00	12.79	0.00	44	0	28	0	3,485	71	0	0	3,414
179+50.00	17950.00	50.00	27.18	0.00	6.36	0.00	48	0	18	0	3,533	94	0	0	3,439
180+00.00	18000.00	50.00	27.73	0.00	18.75	0.00	51	0	23	0	3,584	123	0	0	3,462
180+50.00	18050.00	50.00	28.43	0.00	33.27	0.00	52	0	48	0	3,636	183	0	0	3,454
181+00.00	18100.00	50.00	29.17	0.00	23.20	0.00	53	0	52	0	3,689	248	0	0	3,442
181+50.00	18150.00	50.00	29.88	0.00	15.56	0.00	55	0	36	0	3,744	293	0	0	3,452
182+00.00	18200.00	50.00	29.67	0.00	8.24	0.00	55	0	22	0	3,799	320	0	0	3,479
182+50.00	18250.00	50.00	29.63	0.00	0.68	0.00	55	0	8	0	3,854	330	0	0	3,524
183+00.00	18300.00	50.00	34.35	0.00	0.00	0.00	59	0	1	0	3,913	331	0	0	3,582
183+50.00	18350.00	50.00	20.18	0.00	0.79	0.00	50	0	1	0	3,963	333	0	0	3,631
184+00.00	18400.00	50.00	39.55	0.00	0.00	0.00	55	0	1	0	4,018	334	0	0	3,684
184+50.00	18450.00	50.00	0.00	0.00	0.00	0.00	37	0	0	0	4,055	334	0	0	3,721
184+67.00	18467.00	17.00	0.00	0.00	0.00	0.00	0	0	0	0	4,055	334	0	0	3,721
184+82.00	18482.00	15.00	20.63	0.00	1.05	0.00	6	0	0	0	4,061	334	0	0	3,727
185+00.00	18500.00	18.00	39.12	0.00	0.00	0.00	20	0	0	0	4,081	334	0	0	3,747
185+50.00	18550.00	50.00	36.23	0.00	0.00	0.00	70	0	0	0	4,151	334	0	0	3,817
186+00.00	18600.00	50.00	33.01	0.00	0.00	0.00	64	0	0	0	4,215	334	0	0	3,881
186+50.00	18650.00	50.00	31.22	0.00	0.00	0.00	59	0	0	0	4,274	334	0	0	3,940
187+00.00	18700.00	50.00	30.63	0.00	0.00	0.00	57	0	0	0	4,331	334	0	0	3,997
187+50.00	18750.00	50.00	33.99	0.00	0.00	0.00	60	0	0	0	4,391	334	0	0	4,057
188+00.00	18800.00	50.00	25.21	0.00	0.67	0.00	55	0	1	0	4,446	335	0	0	4,111
188+50.00	18850.00	50.00	24.46	0.00	2.26	0.00	46	0	3	0	4,492	339	0	0	4,153
189+00.00	18900.00	50.00	24.13	0.00	3.36	0.00	45	0	5	0	4,537	345	0	0	4,192
189+50.00	18950.00	50.00	21.64	0.00	2.93	0.00	42	0	6	0	4,579	353	0	0	4,227
190+00.00	19000.00	50.00	0.00	0.00	0.00	0.00	20	0	3	0	4,599	356	0	0	4,243
190+17.00	19017.00	17.00	21.19	0.00	2.61	0.00	7	0	1	0	4,606	358	0	0	4,249
190+50.00	19050.00	33.00	19.01	0.00	2.76	0.00	25	0	3	0	4,631	361	0	0	4,270
191+00.00	19100.00	50.00	22.21	0.00	1.65	0.00	38	0	4	0	4,669	366	0	0	4,303
191+50.00	19150.00	50.00	20.65	0.00	2.39	0.00	40	0	4	0	4,709	371	0	0	4,338
192+00.00	19200.00	50.00	19.12	0.00	3.05	0.00	37	0	5	0	4,746	378	0	0	4,369
192+50.00	19250.00	50.00	21.08	0.00	2.71	0.00	37	0	5	0	4,783	384	0	0	4,399
193+00.00	19300.00	50.00	20.51	0.00	2.57	0.00	39	0	5	0	4,822	390	0	0	4,432
193+50.00	19350.00	50.00	23.20	0.00	3.19	0.00	40	0	5	0	4,862	396	0	0	4,466
194+00.00	19400.00	50.00	20.45	0.00	6.60	0.00	40	0	9	0	4,902	408	0	0	4,495
194+50.00	19450.00	50.00	26.17	0.00	4.78	0.00	43	0	11	0	4,945	421	0	0	4,524
195+00.00	19500.00	50.00	26.59	0.00	4.83	0.00	49	0	9	0	4,994	433	0	0	4,562

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

STH 35 - STAGE 3

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		1.00 NOTE 1	1.25	1.00 NOTE 4	1.00 NOTE 6	NOTE 8
160+27.62	16027.62	0.00	11.09	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
160+50.00	16050.00	22.38	10.91	0.00	0.00	0.00	9	0	0	0	9	0	0	0	9
160+76.00	16076.00	26.00	22.82	0.00	0.00	0.00	16	0	0	0	25	0	0	0	25
161+00.00	16100.00	24.00	24.77	0.00	0.00	0.00	21	0	0	0	46	0	0	0	46
161+50.00	16150.00	50.00	27.88	0.00	0.00	0.00	49	0	0	0	95	0	0	0	95
162+00.00	16200.00	50.00	25.90	0.00	0.00	0.00	50	0	0	0	145	0	0	0	145
162+50.00	16250.00	50.00	29.41	0.00	0.00	0.00	51	0	0	0	196	0	0	0	196
163+00.00	16300.00	50.00	23.98	0.00	0.00	0.00	49	0	0	0	245	0	0	0	245
163+50.00	16350.00	50.00	25.69	0.00	0.00	0.00	46	0	0	0	291	0	0	0	291
164+00.00	16400.00	50.00	27.26	0.00	0.00	0.00	49	0	0	0	340	0	0	0	340
164+50.00	16450.00	50.00	24.49	0.00	0.00	0.00	48	0	0	0	388	0	0	0	388
165+00.00	16500.00	50.00	27.08	0.00	0.00	0.00	48	0	0	0	436	0	0	0	436
165+50.00	16550.00	50.00	27.73	0.00	0.00	0.00	51	0	0	0	487	0	0	0	487
166+00.00	16600.00	50.00	29.11	0.00	0.00	0.00	53	0	0	0	540	0	0	0	540
166+50.00	16650.00	50.00	33.76	0.00	0.00	0.00	58	0	0	0	598	0	0	0	598
167+00.00	16700.00	50.00	33.09	0.00	0.00	0.00	62	0	0	0	660	0	0	0	660
167+04.00	16704.00	4.00	32.82	0.00	0.00	0.00	5	0	0	0	665	0	0	0	665
167+50.00	16750.00	46.00	30.28	0.00	0.00	0.00	54	0	0	0	719	0	0	0	719
168+00.00	16800.00	50.00	28.47	0.00	0.00	0.00	54	0	0	0	773	0	0	0	773
168+50.00	16850.00	50.00	29.48	0.00	0.00	0.00	54	0	0	0	827	0	0	0	827
169+00.00	16900.00	50.00	20.83	0.00	0.00	0.00	47	0	0	0	874	0	0	0	874
169+50.00	16950.00	50.00	11.07	0.00	0.00	0.00	30	0	0	0	904	0	0	0	904
170+00.00	17000.00	50.00	10.35	0.00	0.00	0.00	20	0	0	0	924	0	0	0	924
170+50.00	17050.00	50.00	9.25	0.00	0.00	0.00	18	0	0	0	942	0	0	0	942
171+00.00	17100.00	50.00	10.22	0.00	0.00	0.00	18	0	0	0	960	0	0	0	960
171+50.00	17150.00	50.00	14.85	0.00	0.00	0.00	23	0	0	0	983	0	0	0	983
172+00.00	17200.00	50.00	16.18	0.00	0.00	0.00	29	0	0	0	1,012	0	0	0	1,012
172+50.00	17250.00	50.00	16.19	0.00	0.00	0.00	30	0	0	0	1,042	0	0	0	1,042
173+00.00	17300.00	50.00	15.83	0.00	0.00	0.00	30	0	0	0	1,072	0	0	0	1,072
173+50.00	17350.00	50.00	14.24	0.00	0.00	0.00	28	0	0	0	1,100	0	0	0	1,100
174+00.00	17400.00	50.00	15.63	0.00	0.00	0.00	28	0	0	0	1,128	0	0	0	1,128
174+50.00	17450.00	50.00	14.84	0.00	0.00	0.00	28	0	0	0	1,156	0	0	0	1,156
175+00.00	17500.00	50.00	17.57	0.00	0.00	0.00	30	0	0	0	1,186	0	0	0	1,186
175+50.00	17550.00	50.00	20.73	0.00	0.00	0.00	35	0	0	0	1,221	0	0	0	1,221
176+00.00	17600.00	50.00	17.46	0.00	0.00	0.00	35	0	0	0	1,256	0	0	0	1,256
176+50.00	17650.00	50.00	15.98	0.00	0.00	0.00	31	0	0	0	1,287	0	0	0	1,287
176+66.00	17666.00	16.00	15.14	0.00	0.00	0.00	9	0	0	0	1,296	0	0	0	1,296
177+00.00	17700.00	34.00	15.35	0.00	0.00	0.00	19	0	0	0	1,315	0	0	0	1,315
177+50.00	17750.00	50.00	16.45	0.00	0.00	0.00	29	0	0	0	1,344	0	0	0	1,344
178+00.00	17800.00	50.00	17.57	0.00	0.00	0.00	31	0	0	0	1,375	0	0	0	1,375

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

STH 35 - STAGE 3

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		1.00 NOTE 1	1.25	1.00 NOTE 4	1.00 NOTE 6	NOTE 8
178+50.00	17850.00	50.00	16.21	0.00	0.00	0.00	31	0	0	0	1,406	0	0	0	1,406
179+00.00	17900.00	50.00	18.35	0.00	0.00	0.00	32	0	0	0	1,438	0	0	0	1,438
179+50.00	17950.00	50.00	19.18	0.00	0.00	0.00	35	0	0	0	1,473	0	0	0	1,473
180+00.00	18000.00	50.00	20.95	0.00	0.00	0.00	37	0	0	0	1,510	0	0	0	1,510
180+50.00	18050.00	50.00	21.43	0.00	0.00	0.00	39	0	0	0	1,549	0	0	0	1,549
181+00.00	18100.00	50.00	20.79	0.00	0.00	0.00	39	0	0	0	1,588	0	0	0	1,588
181+50.00	18150.00	50.00	21.41	0.00	0.00	0.00	39	0	0	0	1,627	0	0	0	1,627
182+00.00	18200.00	50.00	20.88	0.00	0.00	0.00	39	0	0	0	1,666	0	0	0	1,666
182+50.00	18250.00	50.00	20.88	0.00	0.00	0.00	39	0	0	0	1,705	0	0	0	1,705
183+00.00	18300.00	50.00	18.70	0.00	0.00	0.00	37	0	0	0	1,742	0	0	0	1,742
183+50.00	18350.00	50.00	19.32	0.00	0.00	0.00	35	0	0	0	1,777	0	0	0	1,777
184+00.00	18400.00	50.00	20.34	0.00	0.00	0.00	37	0	0	0	1,814	0	0	0	1,814
184+50.00	18450.00	50.00	20.31	0.00	0.00	0.00	38	0	0	0	1,852	0	0	0	1,852
184+67.00	18467.00	17.00	21.10	0.00	0.00	0.00	13	0	0	0	1,865	0	0	0	1,865
184+82.00	18482.00	15.00	21.47	0.00	0.00	0.00	12	0	0	0	1,877	0	0	0	1,877
185+00.00	18500.00	18.00	20.88	0.00	0.00	0.00	14	0	0	0	1,891	0	0	0	1,891
185+50.00	18550.00	50.00	20.07	0.00	0.00	0.00	38	0	0	0	1,929	0	0	0	1,929
186+00.00	18600.00	50.00	19.26	0.00	0.00	0.00	36	0	0	0	1,965	0	0	0	1,965
186+50.00	18650.00	50.00	19.40	0.00	0.00	0.00	36	0	0	0	2,001	0	0	0	2,001
187+00.00	18700.00	50.00	19.66	0.00	0.00	0.00	36	0	0	0	2,037	0	0	0	2,037
187+50.00	18750.00	50.00	19.56	0.00	0.00	0.00	36	0	0	0	2,073	0	0	0	2,073
188+00.00	18800.00	50.00	18.68	0.00	0.00	0.00	35	0	0	0	2,108	0	0	0	2,108
188+50.00	18850.00	50.00	18.54	0.00	0.00	0.00	34	0	0	0	2,142	0	0	0	2,142
189+00.00	18900.00	50.00	18.77	0.00	0.00	0.00	35	0	0	0	2,177	0	0	0	2,177
189+50.00	18950.00	50.00	18.21	0.00	0.00	0.00	34	0	0	0	2,211	0	0	0	2,211
190+00.00	19000.00	50.00	17.32	0.00	0.00	0.00	33	0	0	0	2,244	0	0	0	2,244
190+17.00	19017.00	17.00	17.25	0.00	0.00	0.00	11	0	0	0	2,255	0	0	0	2,255
190+50.00	19050.00	33.00	16.26	0.00	0.00	0.00	20	0	0	0	2,275	0	0	0	2,275
191+00.00	19100.00	50.00	19.47	0.00	0.00	0.00	33	0	0	0	2,308	0	0	0	2,308
191+50.00	19150.00	50.00	16.27	0.00	0.00	0.00	33	0	0	0	2,341	0	0	0	2,341
192+00.00	19200.00	50.00	15.94	0.00	0.00	0.00	30	0	0	0	2,371	0	0	0	2,371
192+50.00	19250.00	50.00	14.86	0.00	0.00	0.00	29	0	0	0	2,400	0	0	0	2,400
193+00.00	19300.00	50.00	11.82	0.00	0.00	0.00	25	0	0	0	2,425	0	0	0	2,425
193+50.00	19350.00	50.00	8.12	0.00	0.00	0.00	18	0	0	0	2,443	0	0	0	2,443
194+00.00	19400.00	50.00	8.62	0.00	0.00	0.00	15	0	0	0	2,458	0	0	0	2,458
194+50.00	19450.00	50.00	11.78	0.00	0.00	0.00	19	0	0	0	2,477	0	0	0	2,477
195+00.00	19500.00	50.00	14.16	0.00	0.00	0.00	24	0	0	0	2,501	0	0	0	2,501

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

STH 35 - STAGE 4

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		1.00 NOTE 1	1.25	1.00 NOTE 4	1.00 NOTE 6	NOTE 8
160+76.00	16076.00	0.00	68.58	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
161+00.00	16100.00	24.00	35.28	0.00	0.00	0.00	46	0	0	0	46	0	0	0	46
161+50.00	16150.00	50.00	30.04	0.00	0.08	0.00	60	0	0	0	106	0	0	0	106
162+00.00	16200.00	50.00	20.86	0.00	0.36	0.00	47	0	0	0	153	0	0	0	153
162+50.00	16250.00	50.00	18.72	0.00	1.80	0.00	37	0	2	0	190	3	0	0	188
163+00.00	16300.00	50.00	18.79	0.00	1.49	0.00	35	0	3	0	225	6	0	0	219
163+50.00	16350.00	50.00	17.43	0.00	1.99	0.00	34	0	3	0	259	10	0	0	249
164+00.00	16400.00	50.00	19.00	0.00	1.33	0.00	34	0	3	0	293	14	0	0	279
164+50.00	16450.00	50.00	30.31	0.00	0.00	0.00	46	0	1	0	339	15	0	0	324
165+00.00	16500.00	50.00	35.75	0.00	0.03	0.00	61	0	0	0	400	15	0	0	385
165+50.00	16550.00	50.00	38.35	0.00	0.00	0.00	69	0	0	0	469	15	0	0	454
166+00.00	16600.00	50.00	37.32	0.00	0.00	0.00	70	0	0	0	539	15	0	0	524
166+50.00	16650.00	50.00	39.06	0.00	0.00	0.00	71	0	0	0	610	15	0	0	595
167+00.00	16700.00	50.00	31.08	0.00	0.00	0.00	65	0	0	0	675	15	0	0	660
167+04.00	16704.00	4.00	30.13	0.00	0.00	0.00	5	0	0	0	680	15	0	0	665
167+50.00	16750.00	46.00	24.27	0.00	3.53	0.00	46	0	3	0	726	19	0	0	707
168+00.00	16800.00	50.00	22.11	0.00	0.58	0.00	43	0	4	0	769	24	0	0	745
168+50.00	16850.00	50.00	17.43	0.00	0.47	0.00	37	0	1	0	806	25	0	0	781
169+00.00	16900.00	50.00	20.88	0.00	0.00	0.00	35	0	0	0	841	25	0	0	816
169+50.00	16950.00	50.00	15.67	0.00	0.56	0.00	34	0	1	0	875	26	0	0	849
170+00.00	17000.00	50.00	10.91	0.00	3.34	0.00	25	0	4	0	900	31	0	0	869
170+50.00	17050.00	50.00	11.43	0.00	2.09	0.00	21	0	5	0	921	38	0	0	884
171+00.00	17100.00	50.00	12.27	0.00	0.73	0.00	22	0	3	0	943	41	0	0	902
171+50.00	17150.00	50.00	19.42	0.00	0.10	0.00	29	0	1	0	972	43	0	0	930
172+00.00	17200.00	50.00	20.47	0.00	0.03	0.00	37	0	0	0	1,009	43	0	0	967
172+50.00	17250.00	50.00	35.11	0.00	0.45	0.00	51	0	0	0	1,060	43	0	0	1,018
173+00.00	17300.00	50.00	14.42	0.00	0.00	0.00	46	0	0	0	1,106	43	0	0	1,064
173+50.00	17350.00	50.00	13.74	0.00	0.00	0.00	26	0	0	0	1,132	43	0	0	1,090
174+00.00	17400.00	50.00	26.40	0.00	30.74	0.00	37	0	28	0	1,169	78	0	0	1,092
174+50.00	17450.00	50.00	27.30	0.00	2.80	0.00	50	0	31	0	1,219	116	0	0	1,103
175+00.00	17500.00	50.00	31.72	0.00	2.95	0.00	55	0	5	0	1,274	123	0	0	1,152
175+50.00	17550.00	50.00	8.29	0.00	16.81	0.00	37	0	18	0	1,311	145	0	0	1,166
176+00.00	17600.00	50.00	23.11	0.00	9.87	0.00	29	0	25	0	1,340	176	0	0	1,164
176+50.00	17650.00	50.00	26.27	0.00	1.41	0.00	46	0	10	0	1,386	189	0	0	1,197
176+66.00	17666.00	16.00	6.92	0.00	14.09	0.00	10	0	5	0	1,396	195	0	0	1,201
177+00.00	17700.00	34.00	29.28	0.00	0.83	0.00	23	0	9	0	1,419	206	0	0	1,213
177+50.00	17750.00	50.00	35.48	0.00	1.15	0.00	60	0	2	0	1,479	209	0	0	1,270
178+00.00	17800.00	50.00	34.76	0.00	1.54	0.00	65	0	2	0	1,544	211	0	0	1,333
178+50.00	17850.00	50.00	45.98	0.00	0.00	0.00	75	0	1	0	1,619	213	0	0	1,407
179+00.00	17900.00	50.00	52.17	0.00	1.59	0.00	91	0	1	0	1,710	214	0	0	1,496

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

STH 35 - STAGE 4

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		1.00 NOTE 1	1.25	1.00 NOTE 4	1.00 NOTE 6	NOTE 8
179+50.00	17950.00	50.00	64.16	0.00	4.55	0.00	108	0	6	0	1,818	221	0	0	1,597
180+00.00	18000.00	50.00	75.84	0.00	1.94	0.00	130	0	6	0	1,948	229	0	0	1,719
180+50.00	18050.00	50.00	81.96	0.00	4.22	0.00	146	0	6	0	2,094	236	0	0	1,858
181+00.00	18100.00	50.00	89.23	0.00	1.51	0.00	159	0	5	0	2,253	243	0	0	2,011
181+50.00	18150.00	50.00	97.57	0.00	0.84	0.00	173	0	2	0	2,426	245	0	0	2,181
182+00.00	18200.00	50.00	102.66	0.00	0.93	0.00	185	0	2	0	2,611	248	0	0	2,364
182+50.00	18250.00	50.00	108.57	0.00	0.00	0.00	196	0	1	0	2,807	249	0	0	2,558
183+00.00	18300.00	50.00	83.62	0.00	9.36	0.00	178	0	9	0	2,985	260	0	0	2,725
183+50.00	18350.00	50.00	50.50	0.00	20.10	0.00	124	0	27	0	3,109	294	0	0	2,815
184+00.00	18400.00	50.00	37.13	0.00	3.87	0.00	81	0	22	0	3,190	321	0	0	2,869
184+50.00	18450.00	50.00	9.34	0.00	0.03	0.00	43	0	4	0	3,233	326	0	0	2,907
184+67.00	18467.00	17.00	11.62	0.00	0.23	0.00	7	0	0	0	3,240	326	0	0	2,914
184+82.00	18482.00	15.00	10.60	0.00	0.00	0.00	6	0	0	0	3,246	326	0	0	2,920
185+00.00	18500.00	18.00	38.06	0.00	16.59	0.00	16	0	6	0	3,262	334	0	0	2,928
185+50.00	18550.00	50.00	40.98	0.00	0.19	0.00	73	0	16	0	3,335	354	0	0	2,981
186+00.00	18600.00	50.00	31.13	0.00	1.77	0.00	67	0	2	0	3,402	356	0	0	3,046
186+50.00	18650.00	50.00	24.76	0.00	3.94	0.00	52	0	5	0	3,454	363	0	0	3,092
187+00.00	18700.00	50.00	26.32	0.00	12.79	0.00	47	0	15	0	3,501	381	0	0	3,120
187+50.00	18750.00	50.00	25.66	0.00	11.06	0.00	48	0	22	0	3,549	409	0	0	3,140
188+00.00	18800.00	50.00	19.85	0.00	2.70	0.00	42	0	13	0	3,591	425	0	0	3,166
188+50.00	18850.00	50.00	34.60	0.00	0.08	0.00	50	0	3	0	3,641	429	0	0	3,212
189+00.00	18900.00	50.00	57.02	0.00	0.00	0.00	85	0	0	0	3,726	429	0	0	3,297
189+50.00	18950.00	50.00	70.69	0.00	0.00	0.00	118	0	0	0	3,844	429	0	0	3,415
190+00.00	19000.00	50.00	61.25	0.00	0.02	0.00	122	0	0	0	3,966	429	0	0	3,537
190+17.00	19017.00	17.00	19.78	0.00	5.08	0.00	26	0	2	0	3,992	431	0	0	3,561
190+50.00	19050.00	33.00	37.20	0.00	0.00	0.00	35	0	3	0	4,027	435	0	0	3,592
191+00.00	19100.00	50.00	18.19	0.00	0.00	0.00	51	0	0	0	4,078	435	0	0	3,643
191+50.00	19150.00	50.00	19.48	0.00	7.45	0.00	35	0	7	0	4,113	444	0	0	3,669
192+00.00	19200.00	50.00	16.16	0.00	2.89	0.00	33	0	10	0	4,146	456	0	0	3,690
192+50.00	19250.00	50.00	14.39	0.00	0.68	0.00	28	0	3	0	4,174	460	0	0	3,714
193+00.00	19300.00	50.00	10.02	0.00	0.83	0.00	23	0	1	0	4,197	461	0	0	3,736
193+50.00	19350.00	50.00	4.97	0.00	0.82	0.00	14	0	2	0	4,211	464	0	0	3,747
194+00.00	19400.00	50.00	5.98	0.00	0.97	0.00	10	0	2	0	4,221	466	0	0	3,755
194+50.00	19450.00	50.00	8.14	0.00	4.89	0.00	13	0	5	0	4,234	473	0	0	3,762
195+00.00	19500.00	50.00	11.78	0.00	2.41	0.00	18	0	7	0	4,252	481	0	0	3,771

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

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT 1.00	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.00	REDUCED MARSH IN FILL 1.00	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 6	NOTE 8
195+00.00	19500.00	0.00	52.53	0.00	7.24	0.00	0	0	0	0	0	0	0	0	0
195+07.00	19507.00	7.00	51.54	0.00	7.69	0.00	13	0	2	0	13	3	0	0	11
195+50.00	19550.00	43.00	105.44	0.00	6.39	0.00	125	0	11	0	138	16	0	0	122
196+00.00	19600.00	50.00	117.14	0.00	9.46	0.00	206	0	15	0	344	35	0	0	309
196+50.00	19650.00	50.00	100.08	0.00	7.52	0.00	201	0	16	0	545	55	0	0	490
197+00.00	19700.00	50.00	85.69	0.00	21.71	0.00	172	0	27	0	717	89	0	0	628
197+50.00	19750.00	50.00	90.82	0.00	25.33	0.00	163	0	44	0	880	144	0	0	736
198+00.00	19800.00	50.00	98.92	0.00	36.61	0.00	176	0	57	0	1,056	215	0	0	841
198+26.00	19826.00	26.00	98.56	0.00	40.16	0.00	95	0	37	0	1,151	261	0	0	890
198+31.00	19831.00	5.00	98.89	0.00	38.71	0.00	18	0	7	0	1,169	270	0	0	899
198+35.00	19835.00	4.00	99.40	0.00	35.56	0.00	15	0	6	0	1,184	278	0	0	907
198+40.00	19840.00	5.00	99.92	0.00	31.99	0.00	18	0	6	0	1,202	285	0	0	917
198+50.00	19850.00	10.00	98.10	0.00	19.96	0.00	37	0	10	0	1,239	298	0	0	942
199+00.00	19900.00	50.00	115.06	0.00	0.11	0.00	197	0	19	0	1,436	321	0	0	1,115
199+50.00	19950.00	50.00	163.65	0.00	14.26	0.00	258	0	13	0	1,694	338	0	0	1,357
200+00.00	20000.00	50.00	157.74	0.00	0.00	0.00	298	0	13	0	1,992	354	0	0	1,638
200+50.00	20050.00	50.00	120.52	0.00	4.26	0.00	258	0	4	0	2,250	359	0	0	1,891
201+00.00	20100.00	50.00	109.70	0.00	0.26	0.00	213	0	4	0	2,463	364	0	0	2,099
201+50.00	20150.00	50.00	102.49	0.00	0.91	0.00	196	0	1	0	2,659	365	0	0	2,294
202+00.00	20200.00	50.00	88.72	0.00	0.34	0.00	177	0	1	0	2,836	366	0	0	2,470
202+50.00	20250.00	50.00	74.93	0.00	9.86	0.00	152	0	9	0	2,988	378	0	0	2,611
203+00.00	20300.00	50.00	78.09	0.00	3.08	0.00	142	0	12	0	3,130	393	0	0	2,738
203+50.00	20350.00	50.00	73.66	0.00	2.55	0.00	141	0	5	0	3,271	399	0	0	2,872
204+00.00	20400.00	50.00	76.87	0.00	3.36	0.00	139	0	5	0	3,410	405	0	0	3,005
204+50.00	20450.00	50.00	76.80	0.00	5.24	0.00	142	0	8	0	3,552	415	0	0	3,137
204+70.00	20470.00	20.00	82.71	0.00	3.70	0.00	59	0	3	0	3,611	419	0	0	3,192
205+00.00	20500.00	30.00	97.38	0.00	4.79	0.00	100	0	5	0	3,711	425	0	0	3,286
205+50.00	20550.00	50.00	174.38	0.00	2.13	0.00	252	0	6	0	3,963	433	0	0	3,531
205+92.00	20592.00	42.00	116.90	0.00	0.77	0.00	227	0	2	0	4,190	435	0	0	3,755
206+00.00	20600.00	8.00	113.77	0.00	0.30	0.00	34	0	0	0	4,224	435	0	0	3,789
206+29.00	20629.00	29.00	98.41	0.00	0.55	0.00	114	0	0	0	4,338	435	0	0	3,903
206+50.00	20650.00	21.00	101.72	0.00	0.58	0.00	78	0	0	0	4,416	435	0	0	3,981
207+00.00	20700.00	50.00	118.28	0.00	0.00	0.00	204	0	1	0	4,620	436	0	0	4,184
207+19.00	20719.00	19.00	129.04	0.00	0.00	0.00	87	0	0	0	4,707	436	0	0	4,271
207+50.00	20750.00	31.00	100.62	0.00	0.60	0.00	132	0	0	0	4,839	436	0	0	4,403
208+00.00	20800.00	50.00	92.82	0.00	0.05	0.00	179	0	1	0	5,018	438	0	0	4,581
208+50.00	20850.00	50.00	73.53	0.00	1.00	0.00	154	0	1	0	5,172	439	0	0	4,733
209+00.00	20900.00	50.00	67.50	0.00	0.64	0.00	131	0	2	0	5,303	441	0	0	4,862
209+50.00	20950.00	50.00	73.16	0.00	2.21	0.00	130	0	3	0	5,433	445	0	0	4,988
210+00.00	21000.00	50.00	72.57	0.00	1.93	0.00	135	0	4	0	5,568	450	0	0	5,118

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

STH 35 - STAGE 4

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
											1.00	1.25	1.00	1.00	
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 6	NOTE 8
210+50.00	21050.00	50.00	63.94	0.00	4.79	0.00	126	0	6	0	5,694	458	0	0	5,237
211+00.00	21100.00	50.00	91.03	0.00	0.03	0.00	143	0	4	0	5,837	463	0	0	5,375
211+38.00	21138.00	38.00	58.08	0.00	4.10	0.00	105	0	3	0	5,942	466	0	0	5,476
211+50.00	21150.00	12.00	51.72	0.00	22.69	0.00	24	0	6	0	5,966	474	0	0	5,492
212+00.00	21200.00	50.00	54.27	0.00	13.59	0.00	98	0	34	0	6,064	516	0	0	5,548
212+44.00	21244.00	44.00	65.70	0.00	2.96	0.00	98	0	13	0	6,162	533	0	0	5,630
212+50.00	21250.00	6.00	69.46	0.00	2.36	0.00	15	0	1	0	6,177	534	0	0	5,643
213+00.00	21300.00	50.00	83.17	0.00	2.35	0.00	141	0	4	0	6,318	539	0	0	5,779
213+50.00	21350.00	50.00	85.60	0.00	1.40	0.00	156	0	3	0	6,474	543	0	0	5,932
213+77.00	21377.00	27.00	84.08	0.00	2.11	0.00	85	0	2	0	6,559	545	0	0	6,014
214+00.00	21400.00	23.00	86.23	0.00	1.05	0.00	73	0	1	0	6,632	546	0	0	6,086
214+22.00	21422.00	22.00	87.99	0.00	0.29	0.00	71	0	1	0	6,703	548	0	0	6,156
214+29.00	21429.00	7.00	82.42	0.00	1.04	0.00	22	0	0	0	6,725	548	0	0	6,178
214+50.00	21450.00	21.00	80.12	0.00	5.58	0.00	63	0	3	0	6,788	551	0	0	6,237
215+00.00	21500.00	50.00	67.40	0.00	3.76	0.00	137	0	9	0	6,925	563	0	0	6,363
215+50.00	21550.00	50.00	60.04	0.00	3.69	0.00	118	0	7	0	7,043	571	0	0	6,472
215+74.00	21574.00	24.00	60.27	0.00	2.65	0.00	53	0	3	0	7,096	575	0	0	6,521
216+00.00	21600.00	26.00	55.54	0.00	6.58	0.00	56	0	4	0	7,152	580	0	0	6,572
216+50.00	21650.00	50.00	62.80	0.00	0.34	0.00	110	0	6	0	7,262	588	0	0	6,675
216+60.00	21660.00	10.00	68.44	0.00	0.61	0.00	24	0	0	0	7,286	588	0	0	6,699
217+00.00	21700.00	40.00	66.40	0.00	1.53	0.00	100	0	2	0	7,386	590	0	0	6,796
217+41.00	21741.00	41.00	70.64	0.00	1.56	0.00	104	0	2	0	7,490	593	0	0	6,898
217+50.00	21750.00	9.00	72.12	0.00	1.75	0.00	24	0	1	0	7,514	594	0	0	6,920
217+70.00	21770.00	20.00	78.89	0.00	0.15	0.00	56	0	1	0	7,570	595	0	0	6,975
218+00.00	21800.00	30.00	58.03	0.00	4.06	0.00	76	0	2	0	7,646	598	0	0	7,049
218+32.00	21832.00	32.00	60.89	0.00	0.06	0.00	70	0	2	0	7,716	600	0	0	7,116
218+38.00	21838.00	6.00	60.00	0.00	0.18	0.00	13	0	0	0	7,729	600	0	0	7,129
218+50.00	21850.00	12.00	53.54	0.00	2.28	0.00	25	0	1	0	7,754	601	0	0	7,153
219+00.00	21900.00	50.00	47.89	0.00	4.79	0.00	94	0	7	0	7,848	610	0	0	7,238
219+45.00	21945.00	45.00	46.06	0.00	3.71	0.00	78	0	7	0	7,926	619	0	0	7,307
219+50.00	21950.00	5.00	44.87	0.00	3.52	0.00	8	0	1	0	7,934	620	0	0	7,314
220+00.00	22000.00	50.00	44.69	0.00	17.01	0.00	83	0	19	0	8,017	644	0	0	7,373
220+38.00	22038.00	38.00	46.78	0.00	19.77	0.00	64	0	26	0	8,081	676	0	0	7,405
220+50.00	22050.00	12.00	47.99	0.00	17.94	0.00	21	0	8	0	8,102	686	0	0	7,416
221+00.00	22100.00	50.00	50.29	0.00	10.54	0.00	91	0	26	0	8,193	719	0	0	7,474
221+43.75	22143.75	43.75	90.72	0.00	13.82	0.00	114	0	20	0	8,307	744	0	0	7,563
221+50.00	22150.00	6.25	85.33	0.00	12.81	0.00	20	0	3	0	8,327	748	0	0	7,580
221+89.00	22189.00	39.00	131.49	0.00	3.21	0.00	157	0	12	0	8,484	763	0	0	7,722
222+00.00	22200.00	11.00	138.75	0.00	3.89	0.00	55	0	1	0	8,539	764	0	0	7,775
222+30.81	22230.81	30.81	107.98	0.00	0.05	0.00	141	0	2	0	8,680	766	0	0	7,914

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

180TH AVENUE - STAGE 2

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		1.00 NOTE 1	1.25	1.00 NOTE 4	1.00 NOTE 6	NOTE 8
19+07.00	1907.00	0.00	43.47	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
19+16.40	1916.40	9.40	45.37	0.00	0.00	0.00	15	0	0	0	15	0	0	0	15
19+37.56	1937.56	21.16	51.10	0.00	0.01	0.00	38	0	0	0	53	0	0	0	53
19+50.00	1950.00	12.44	63.40	0.00	0.17	0.00	26	0	0	0	79	0	0	0	79
19+80.00	1980.00	30.00	186.14	0.00	0.00	0.00	139	0	0	0	218	0	0	0	218

LAGRANDEUR ROAD - STAGE 4

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		1.00 NOTE 1	1.25	1.00 NOTE 4	1.00 NOTE 6	NOTE 8
20+27.50	2027.50	0.00	231.06	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
20+50.00	2050.00	22.50	128.66	0.00	45.93	0.00	150	0	19	0	150	24	0	0	126
21+00.00	2100.00	50.00	102.91	0.00	0.75	0.00	214	0	43	0	364	78	0	0	287
21+09.50	2109.50	9.50	98.34	0.00	1.46	0.00	35	0	0	0	399	78	0	0	322

PARENT STREET - STAGE 4

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		1.00 NOTE 1	1.25	1.00 NOTE 4	1.00 NOTE 6	NOTE 8
7+89.00	789.00	0.00	50.06	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
8+50.00	850.00	61.00	64.83	0.00	17.63	0.00	130	0	20	0	130	25	0	0	105
9+00.00	900.00	50.00	101.56	0.00	0.00	0.00	154	0	16	0	284	45	0	0	239
9+50.00	950.00	50.00	192.37	0.00	0.46	0.00	272	0	0	0	556	45	0	0	511
9+75.99	975.99	25.99	189.46	0.00	0.00	0.00	184	0	0	0	740	45	0	0	695

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

MAIN STREET - STAGE 4

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
											1.00	1.25	1.00	1.00	
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 6	NOTE 8
8+17.79	817.79	0.00	93.46	0.00	0.17	0.00	0	0	0	0	0	0	0	0	0
8+50.00	850.00	32.21	77.70	0.00	1.82	0.00	102	0	1	0	102	1	0	0	101
9+00.00	900.00	50.00	107.36	0.00	0.03	0.00	171	0	2	0	273	4	0	0	269
9+50.00	950.00	50.00	148.74	0.00	1.84	0.00	237	0	2	0	510	6	0	0	504
10+00.00	1000.00	50.00	162.19	0.00	0.00	0.00	288	0	2	0	798	9	0	0	789

KWIKTRIP ENTRANCE - STAGE 4

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
											1.00	1.25	1.00	1.00	
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 6	NOTE 8
10+13.50	1013.50	0.00	97.73	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
10+25.00	1025.00	11.50	98.70	0.00	0.29	0.00	42	0	0	0	42	0	0	0	42
10+50.00	1050.00	25.00	61.18	0.00	5.32	0.00	74	0	3	0	116	4	0	0	112
10+52.00	1052.00	2.00	56.57	0.00	0.07	0.00	4	0	0	0	120	4	0	0	116

SCHACHTNER STREET - STAGE 4

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
											1.00	1.25	1.00	1.00	
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 6	NOTE 8
10+17.00	1017.00	0.00	63.28	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
10+25.00	1025.00	8.00	63.26	0.00	0.00	0.00	19	0	0	0	19	0	0	0	19
10+44.50	1044.50	19.50	54.27	0.00	0.94	0.00	42	0	0	0	61	0	0	0	61

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

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.

890
880
875
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70
160+28

890
880
ELEC
160+50

870
865
890
880
875
ELEC
16.1%
3.3%
3.3%
3.3%
FO
20.0:1
ELEC
ELEC
161+00
884.56 -5.00
884.73 0.00
885.12 12.00
885.64 27.54
885.87 34.69
884.73 57.49
10 FT
10 FT

9

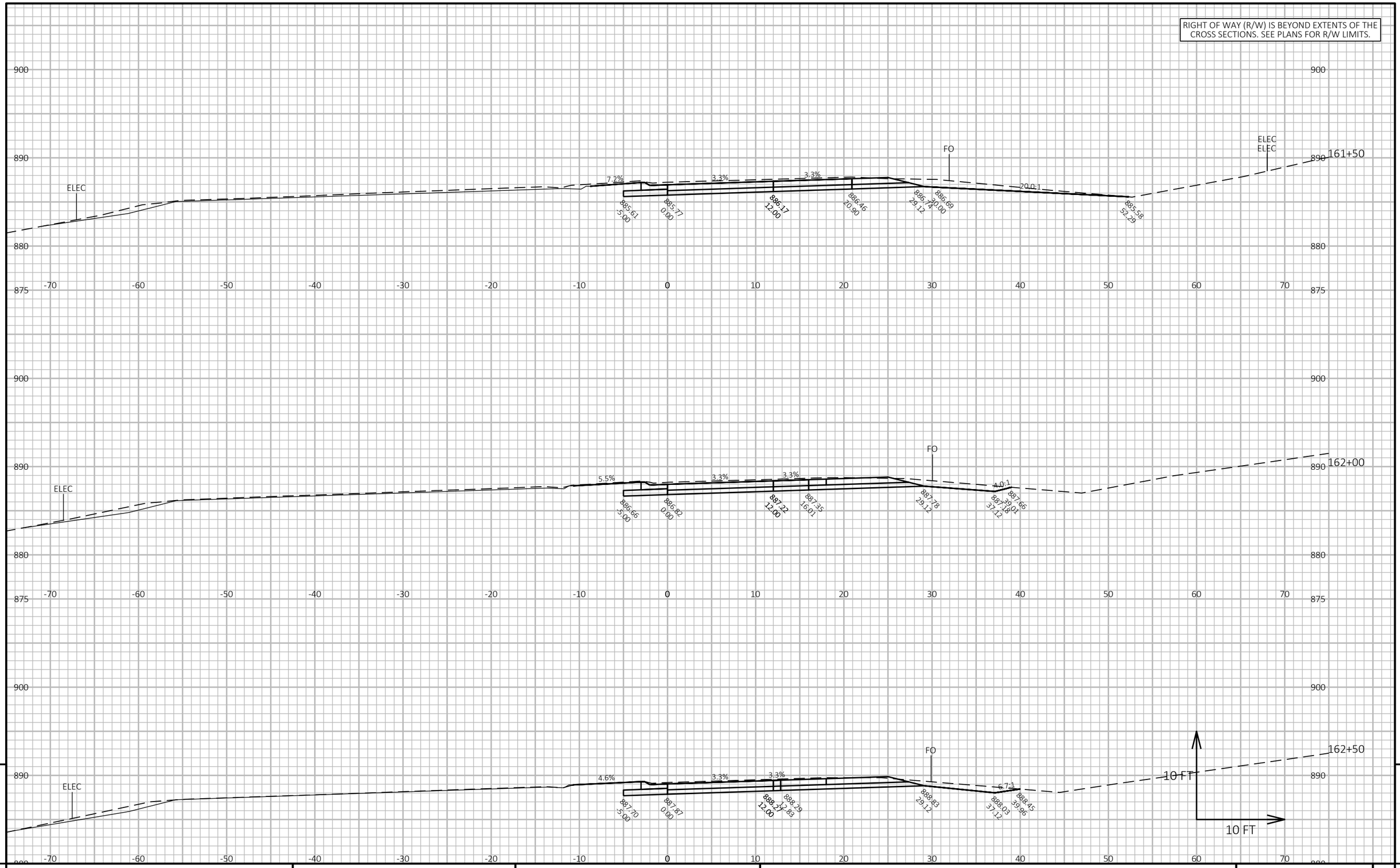
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 423	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 500

PLOT DATE : 12/2/2022 6:31 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 424	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 501

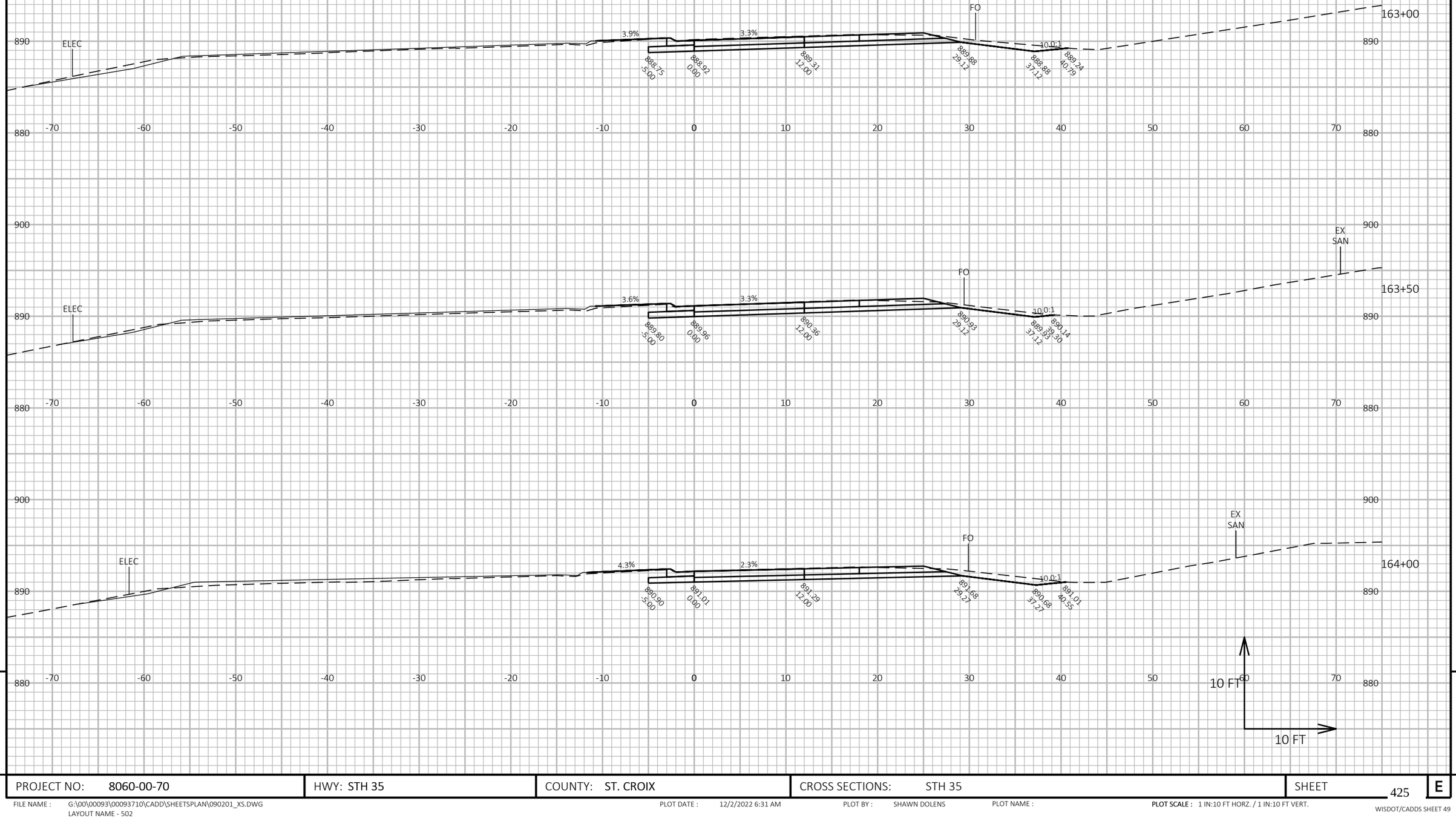
PLOT DATE : 12/2/2022 6:31 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 425	E

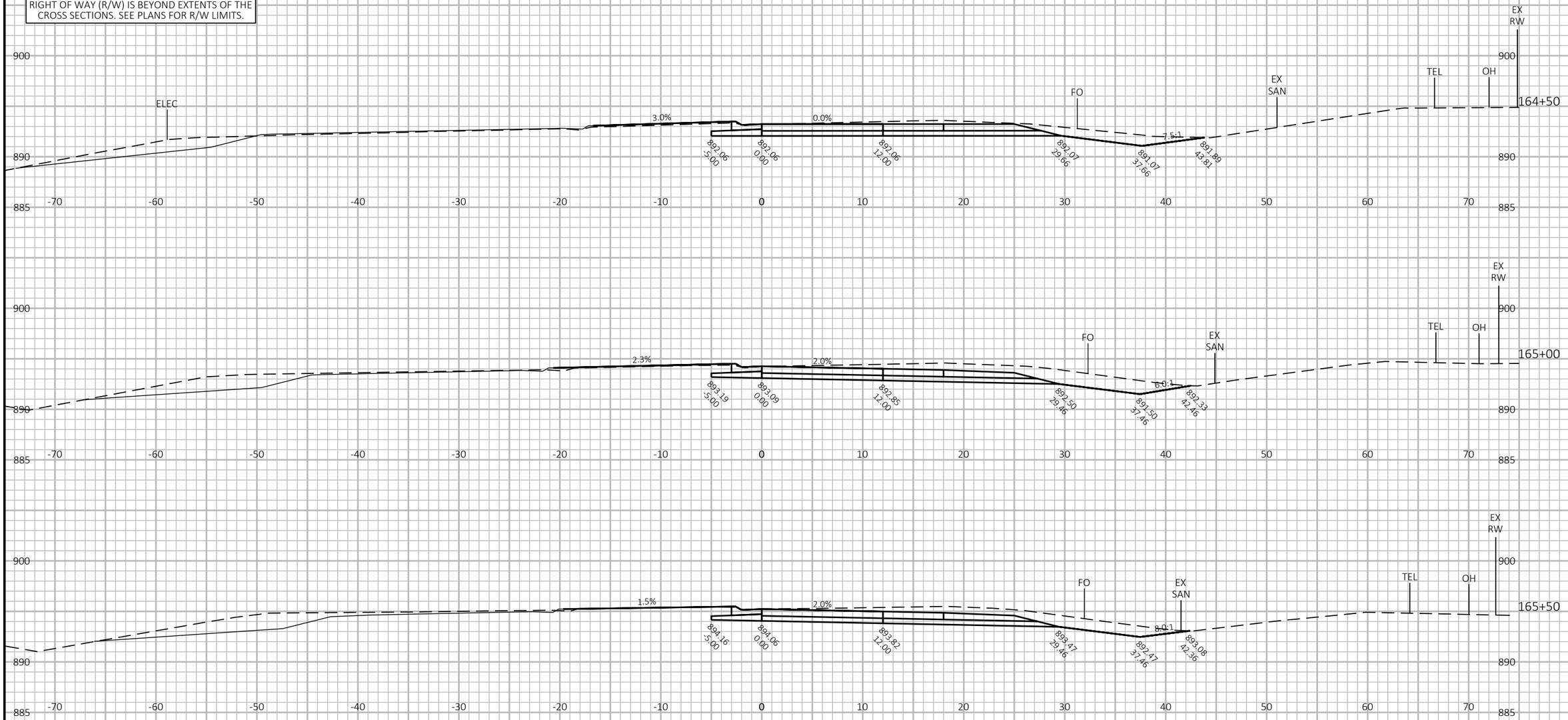
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 502

PLOT DATE : 12/2/2022 6:31 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



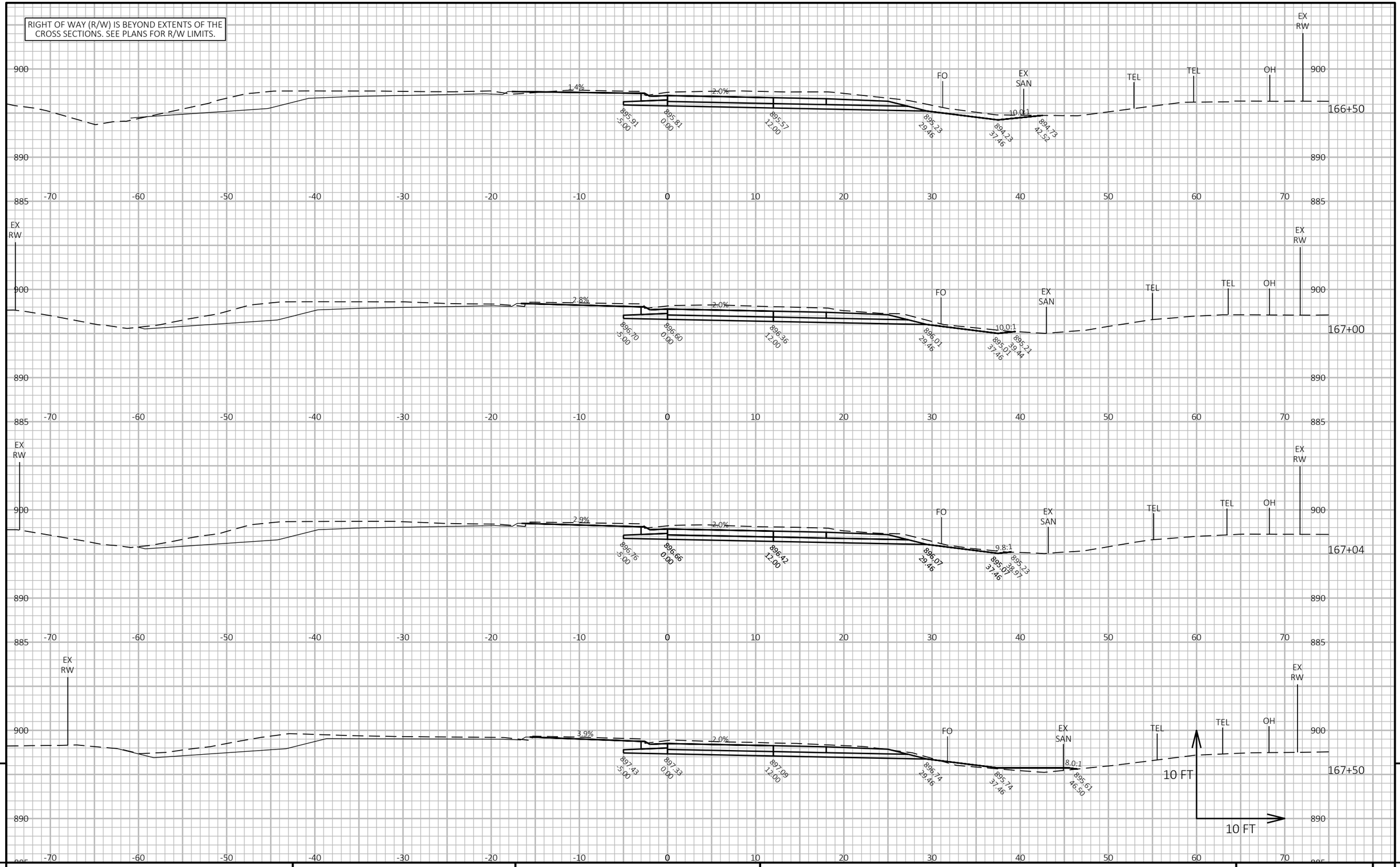
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 426	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 503

PLOT DATE : 12/2/2022 6:31 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 427	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 504

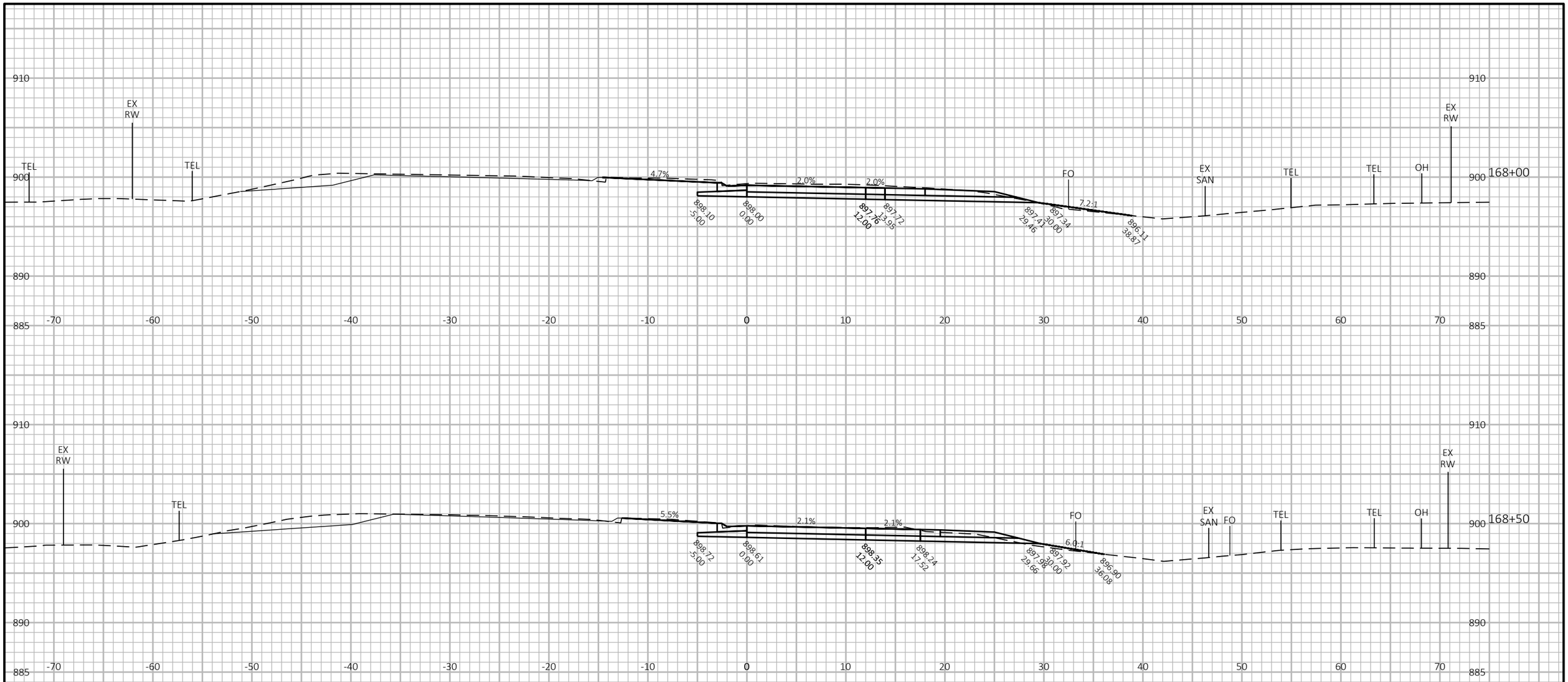
PLOT DATE : 12/2/2022 6:32 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 428	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 505

PLOT DATE : 12/2/2022 6:32 AM

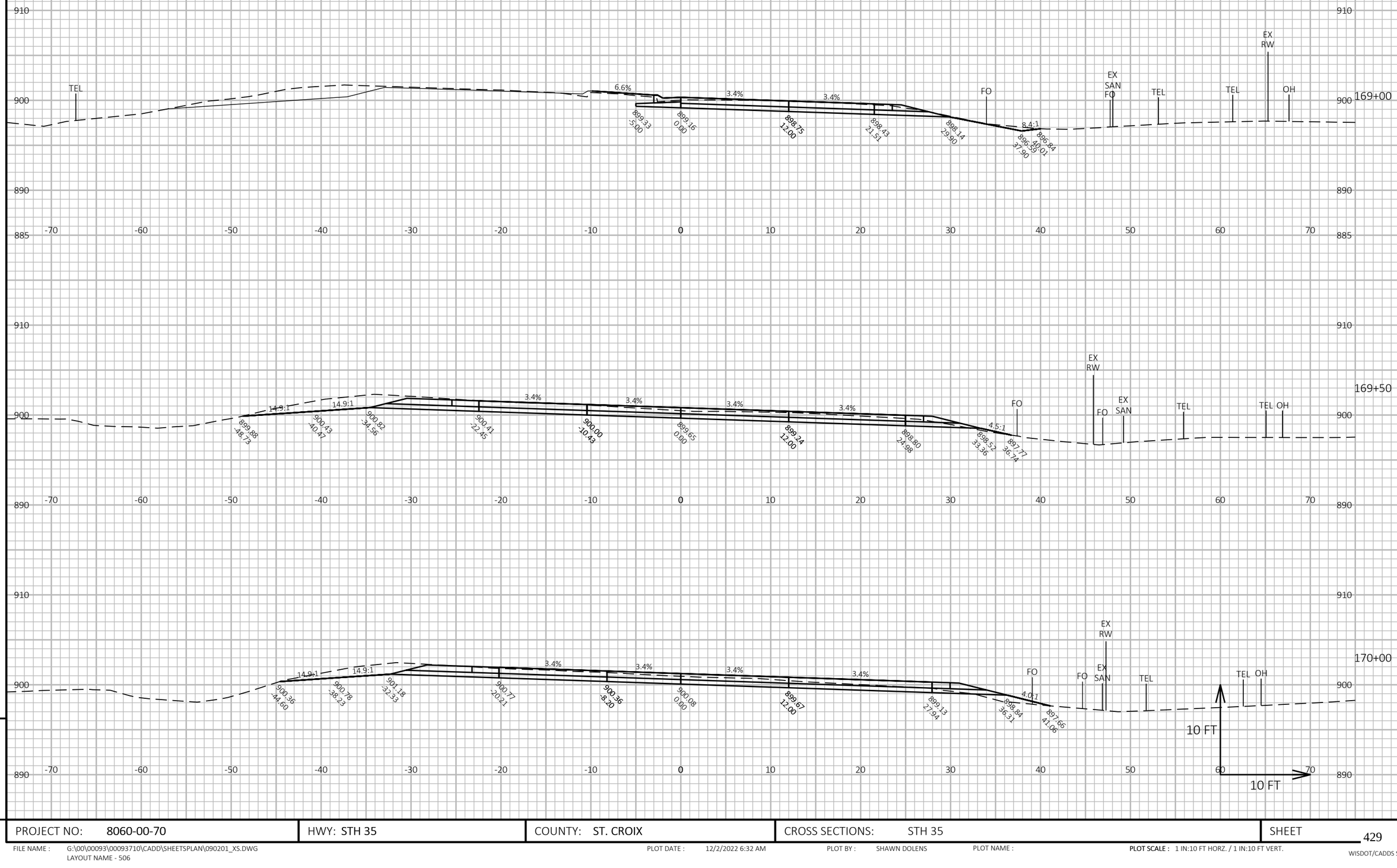
PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 429	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 506

PLOT DATE : 12/2/2022 6:32 AM

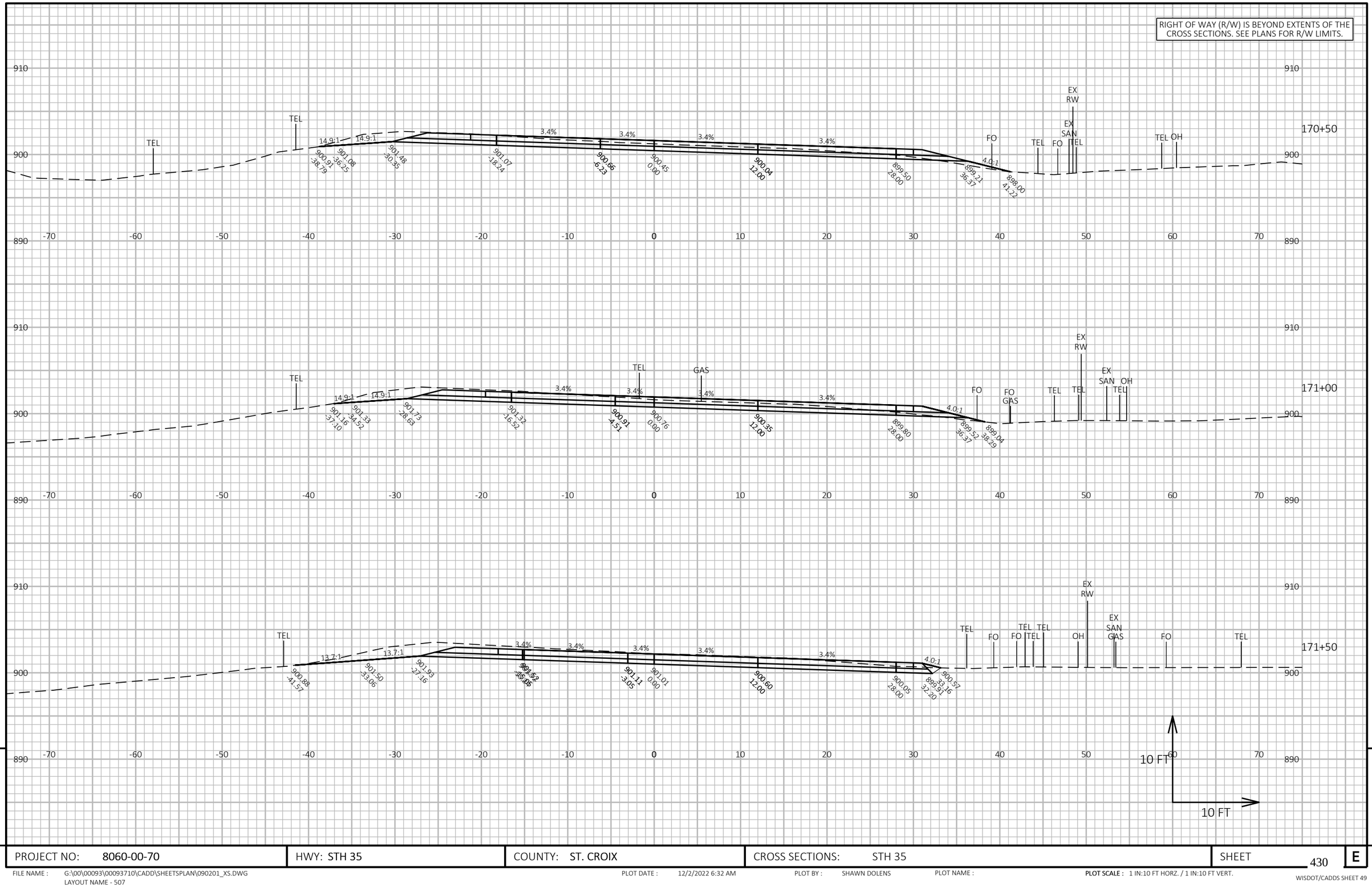
PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 430	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 507

PLOT DATE : 12/2/2022 6:32 AM

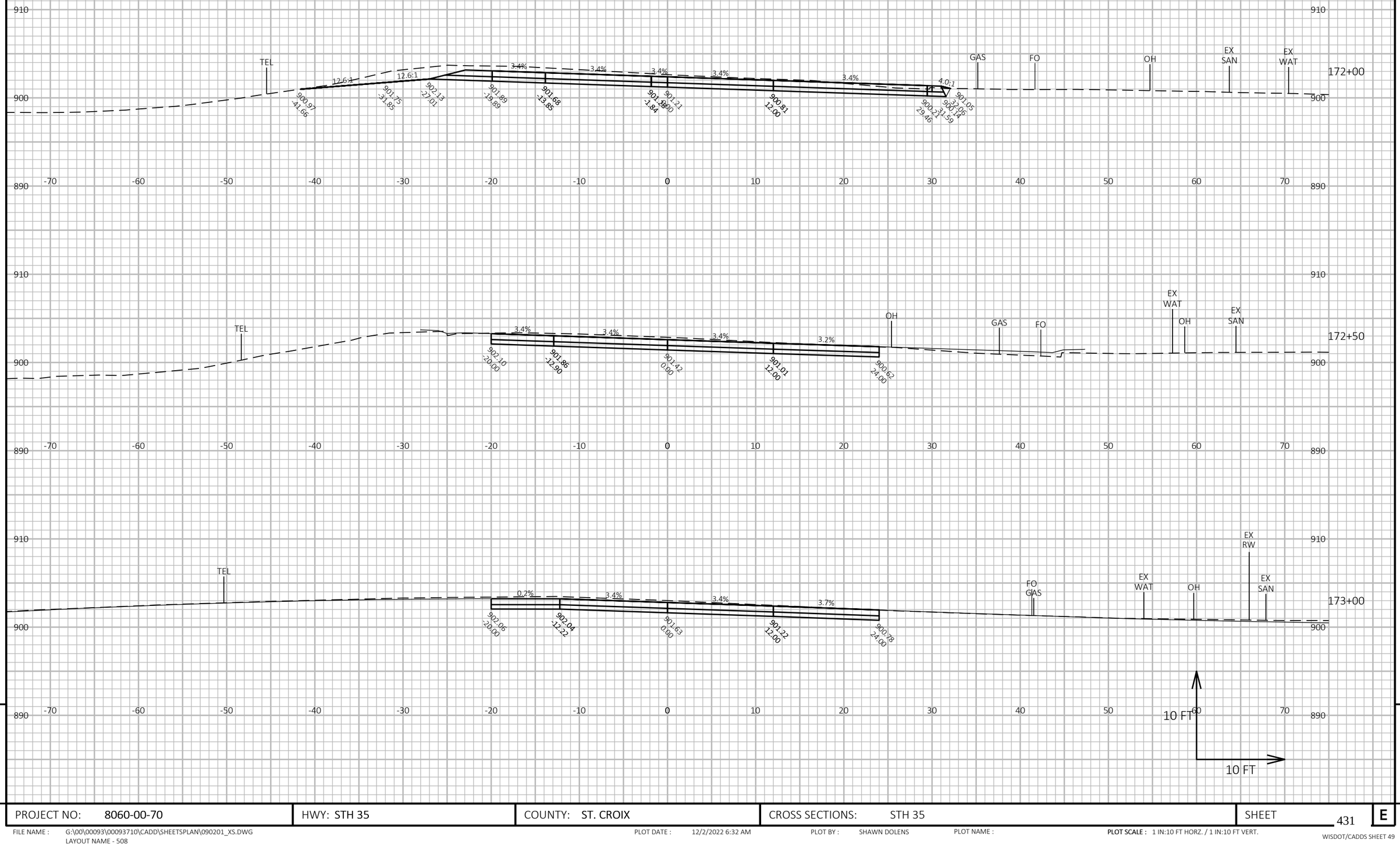
PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 431	E

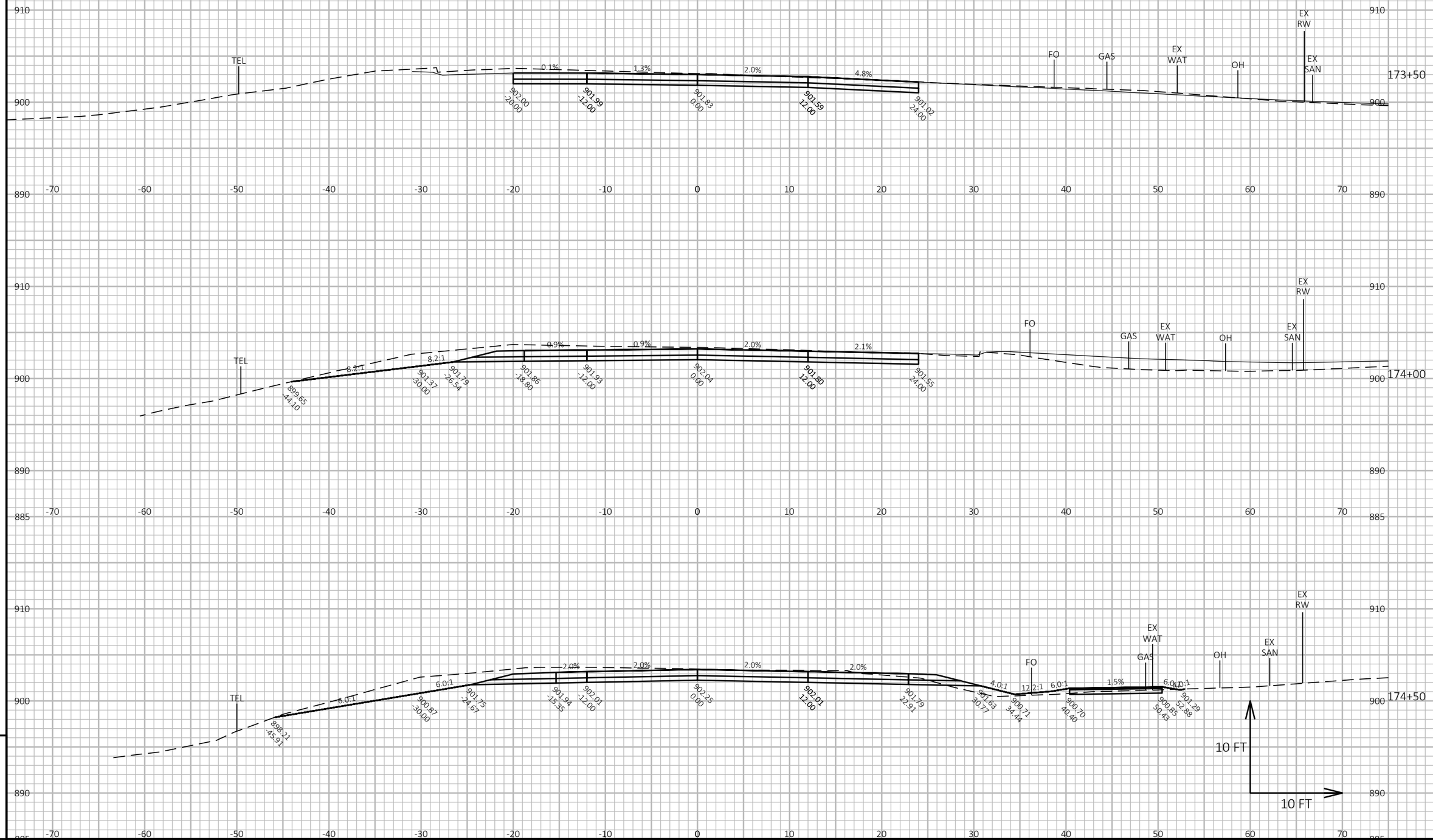
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 508

PLOT DATE : 12/2/2022 6:32 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.

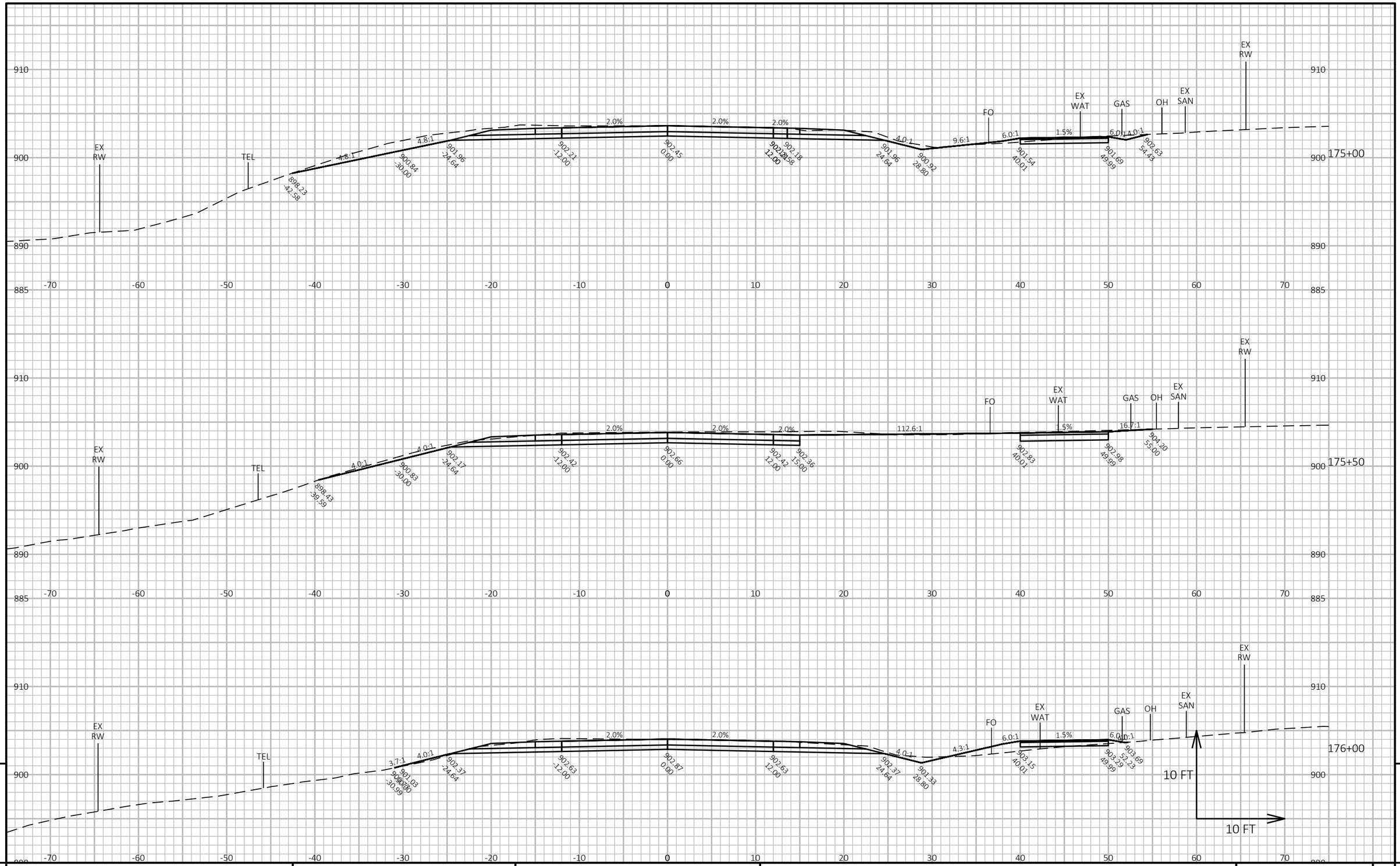


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 432	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 509

PLOT DATE : 12/2/2022 6:33 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 433	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 510

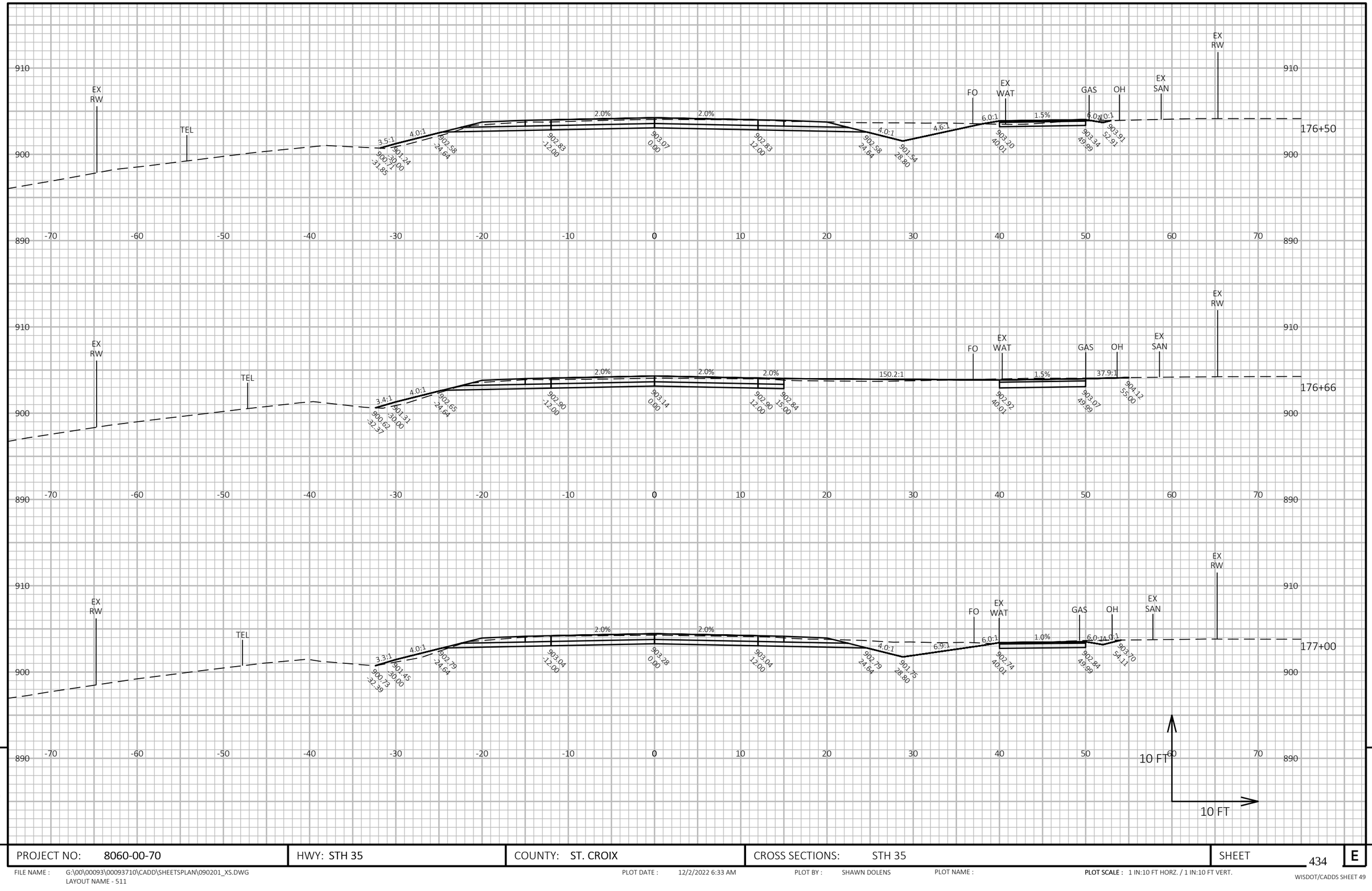
PLOT DATE : 12/2/2022 6:33 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 434	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 511

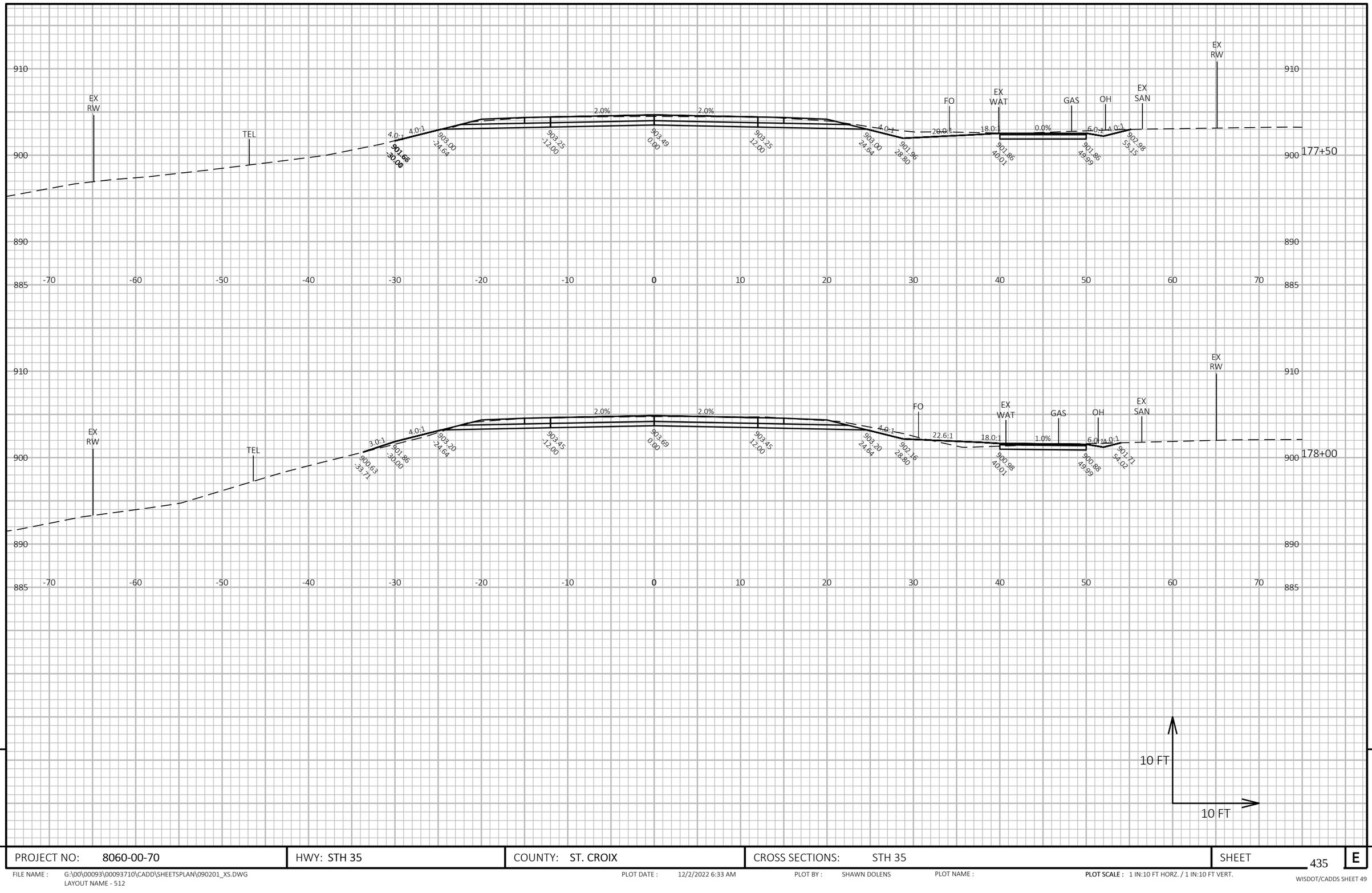
PLOT DATE : 12/2/2022 6:33 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 435	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 512

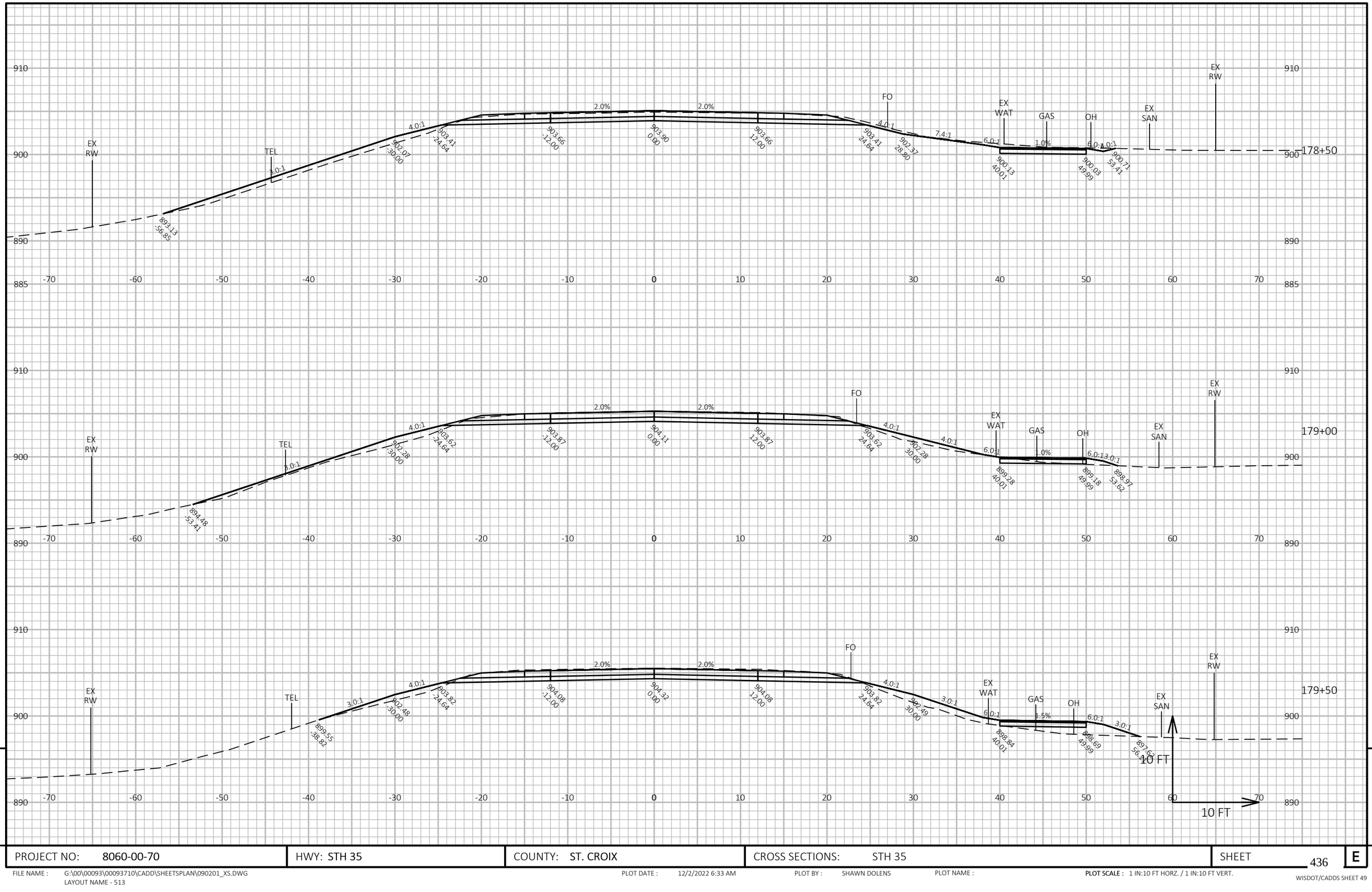
PLOT DATE : 12/2/2022 6:33 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



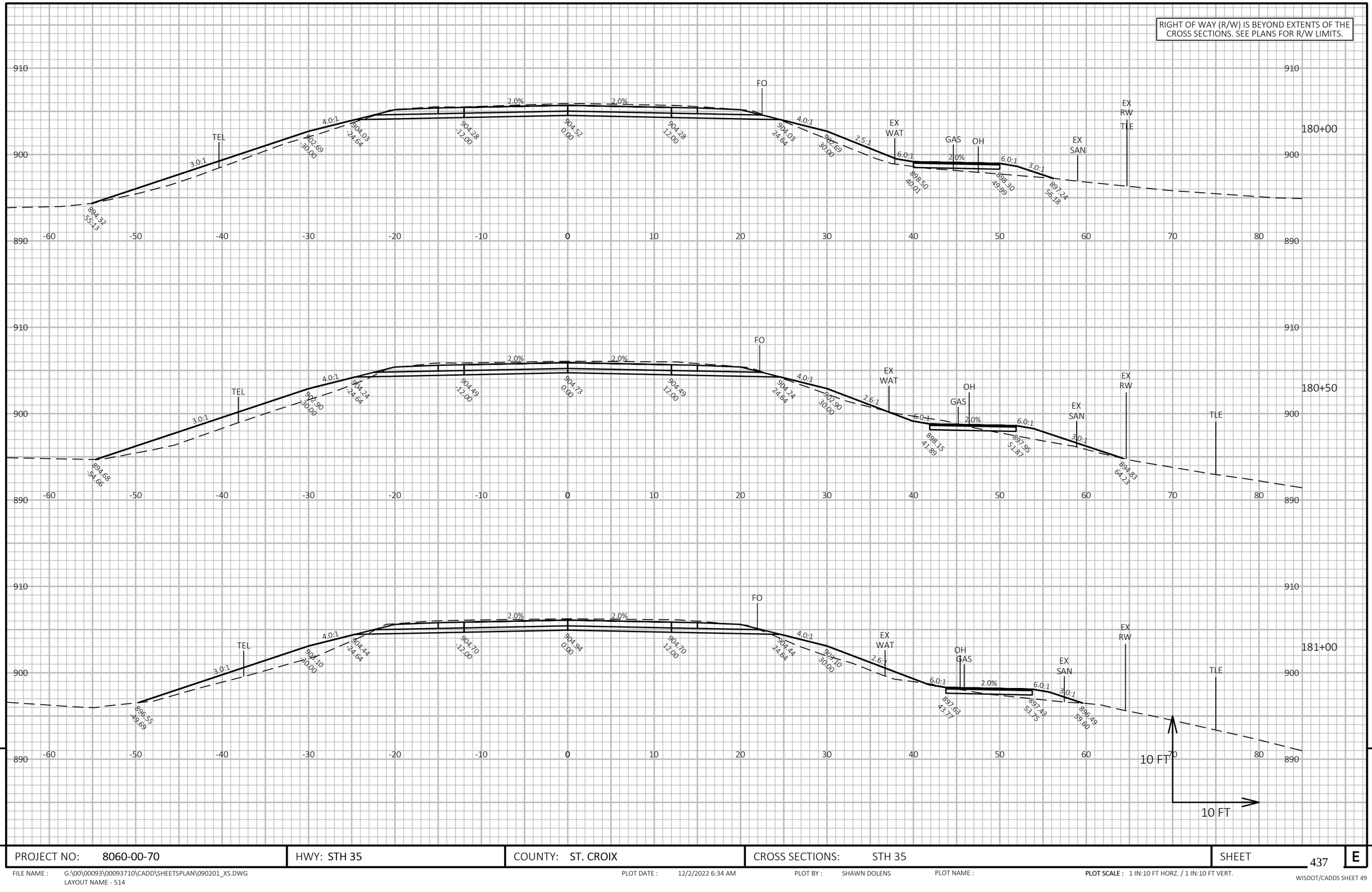
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 436 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 513

PLOT DATE : 12/2/2022 6:33 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



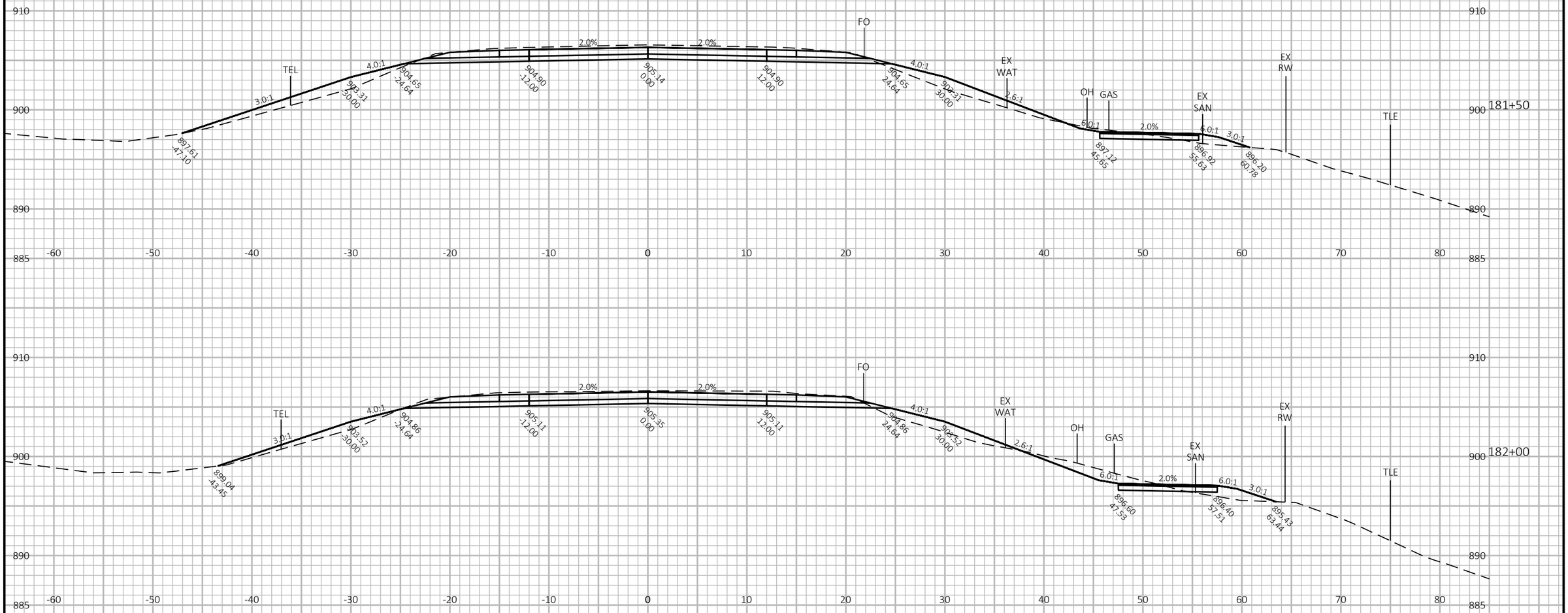
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 437	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 514

PLOT DATE : 12/2/2022 6:34 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9 9

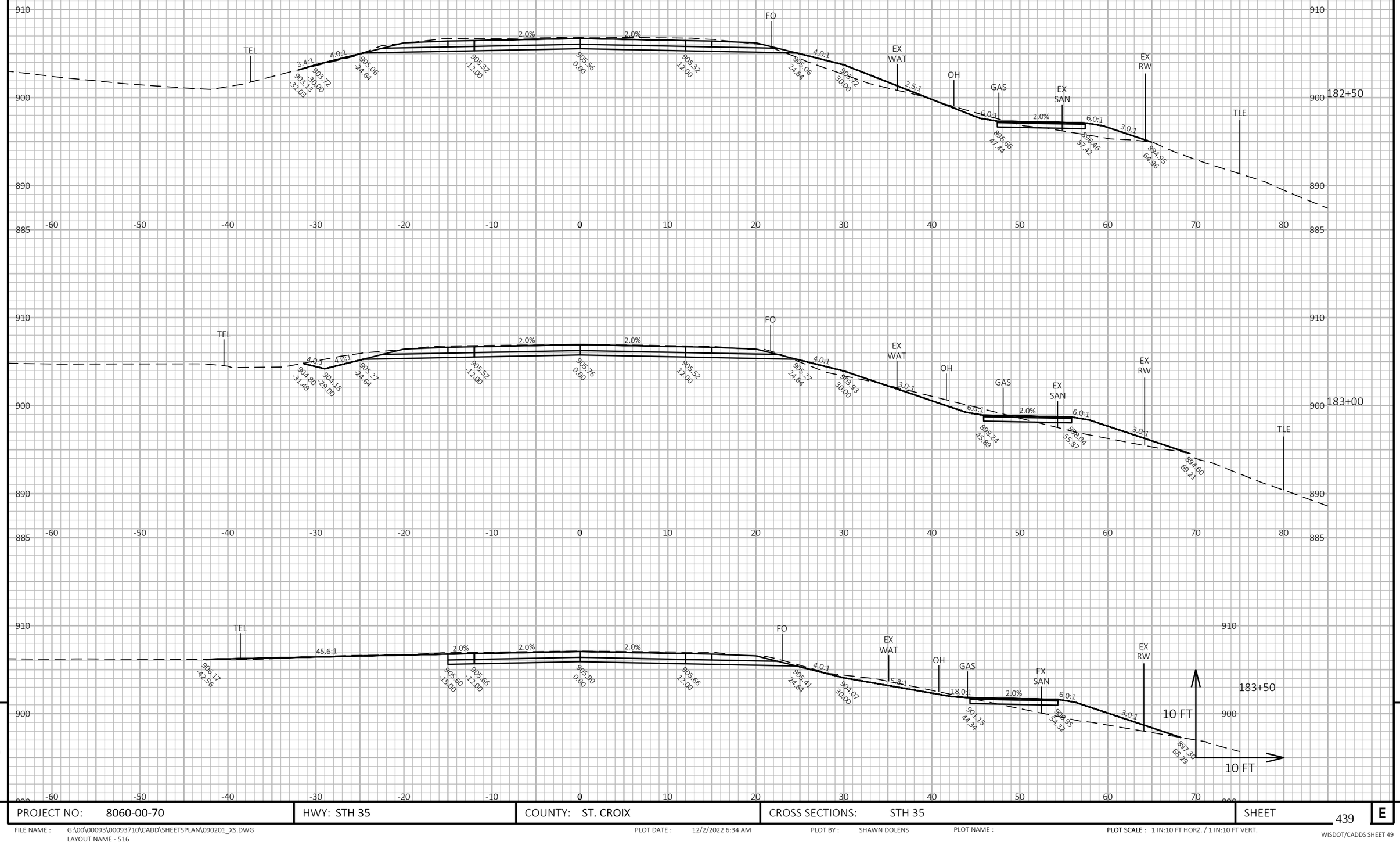
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 438 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 515

PLOT DATE : 12/2/2022 6:34 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



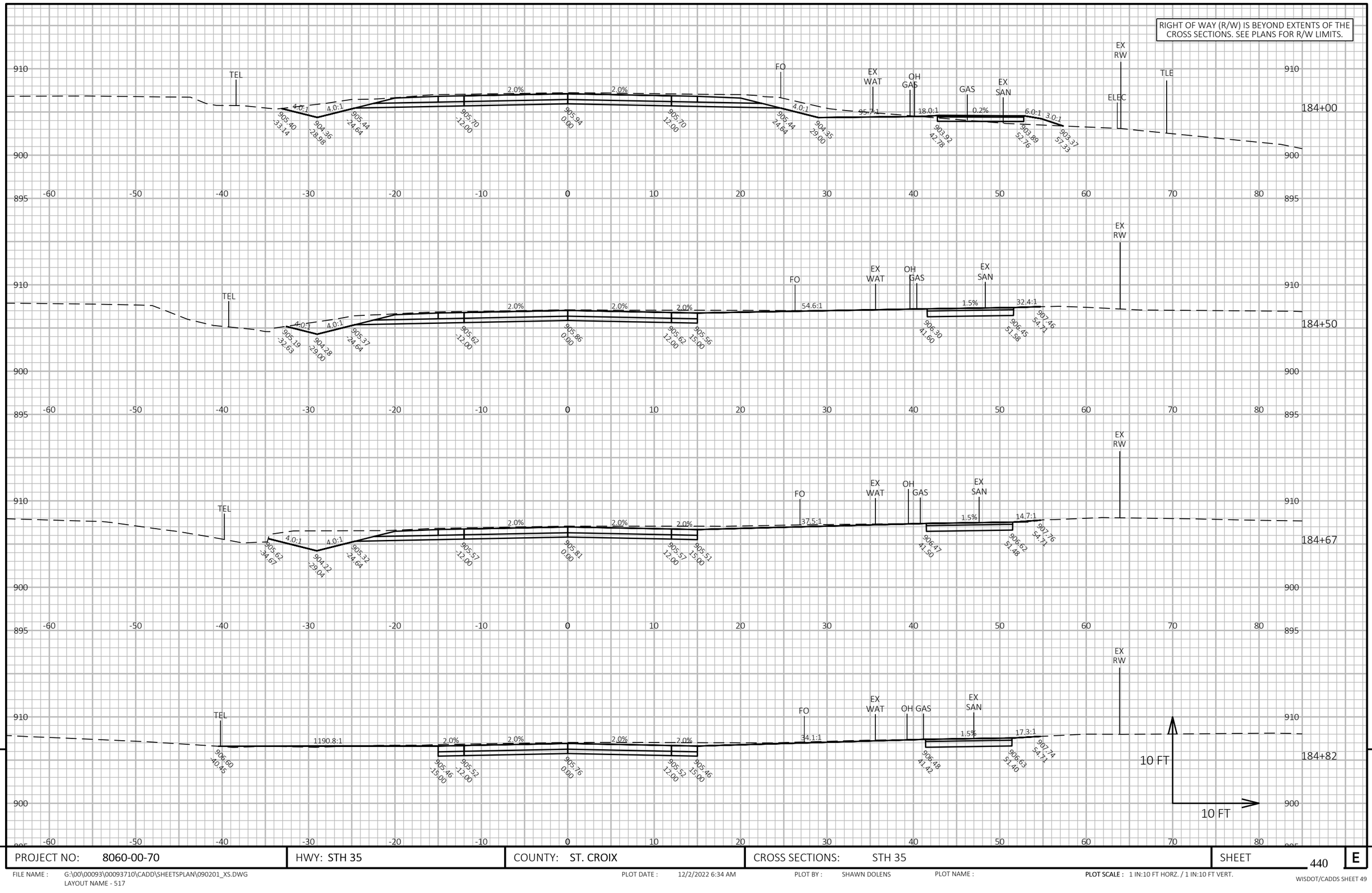
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 439	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 516

PLOT DATE : 12/2/2022 6:34 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

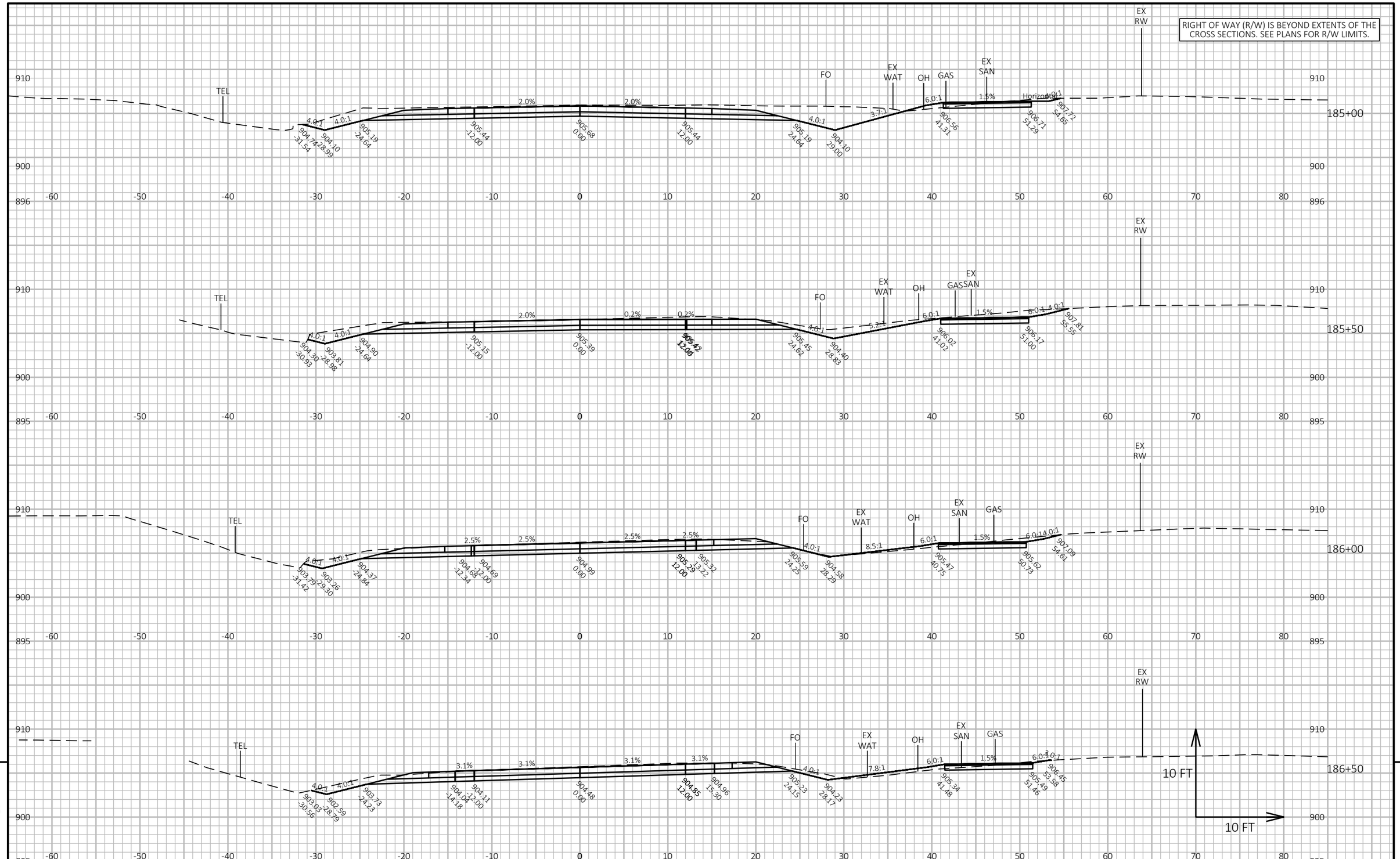
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 440	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 517

PLOT DATE : 12/2/2022 6:34 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 441	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 518

PLOT DATE : 12/2/2022 6:34 AM

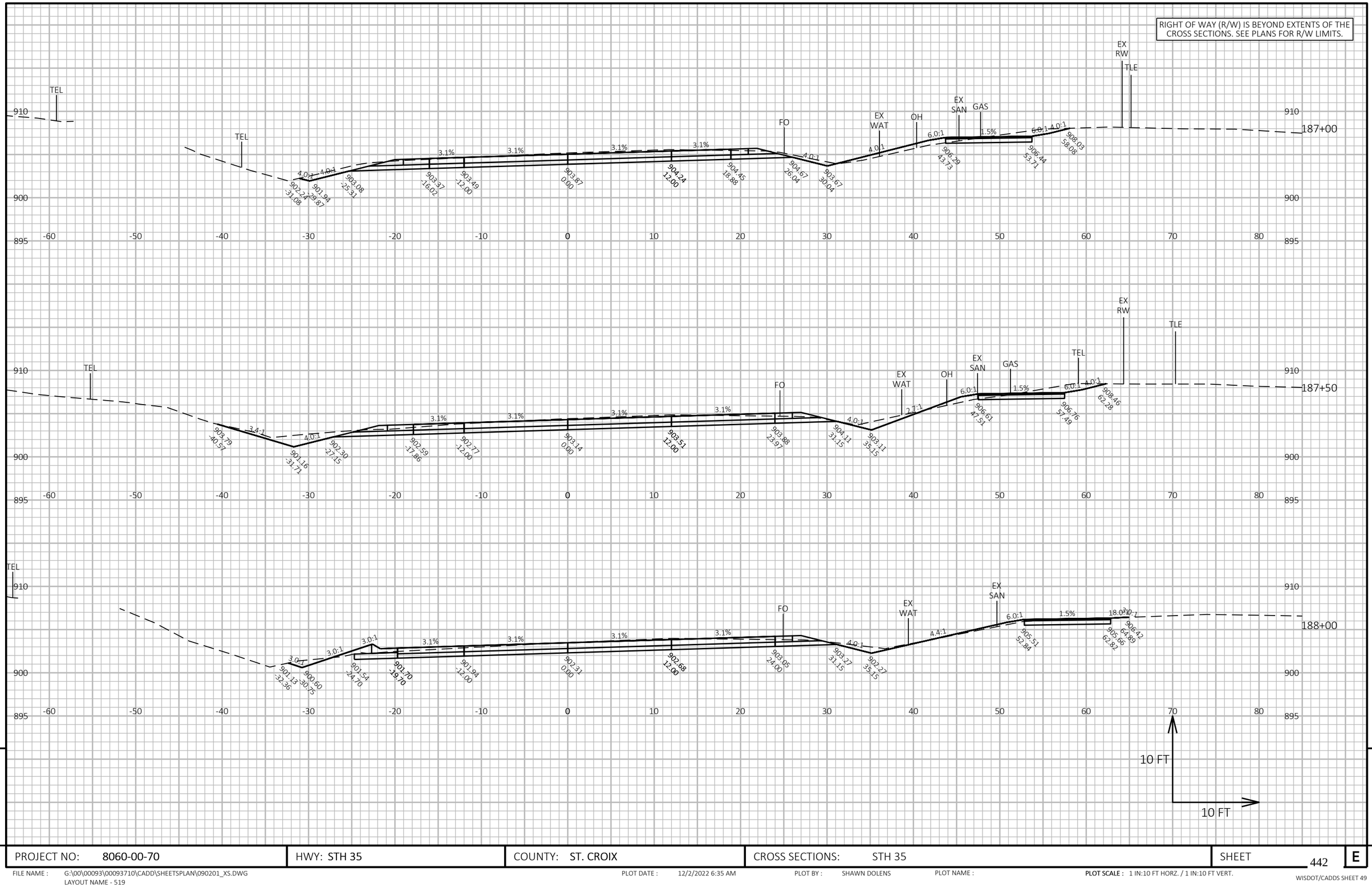
PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



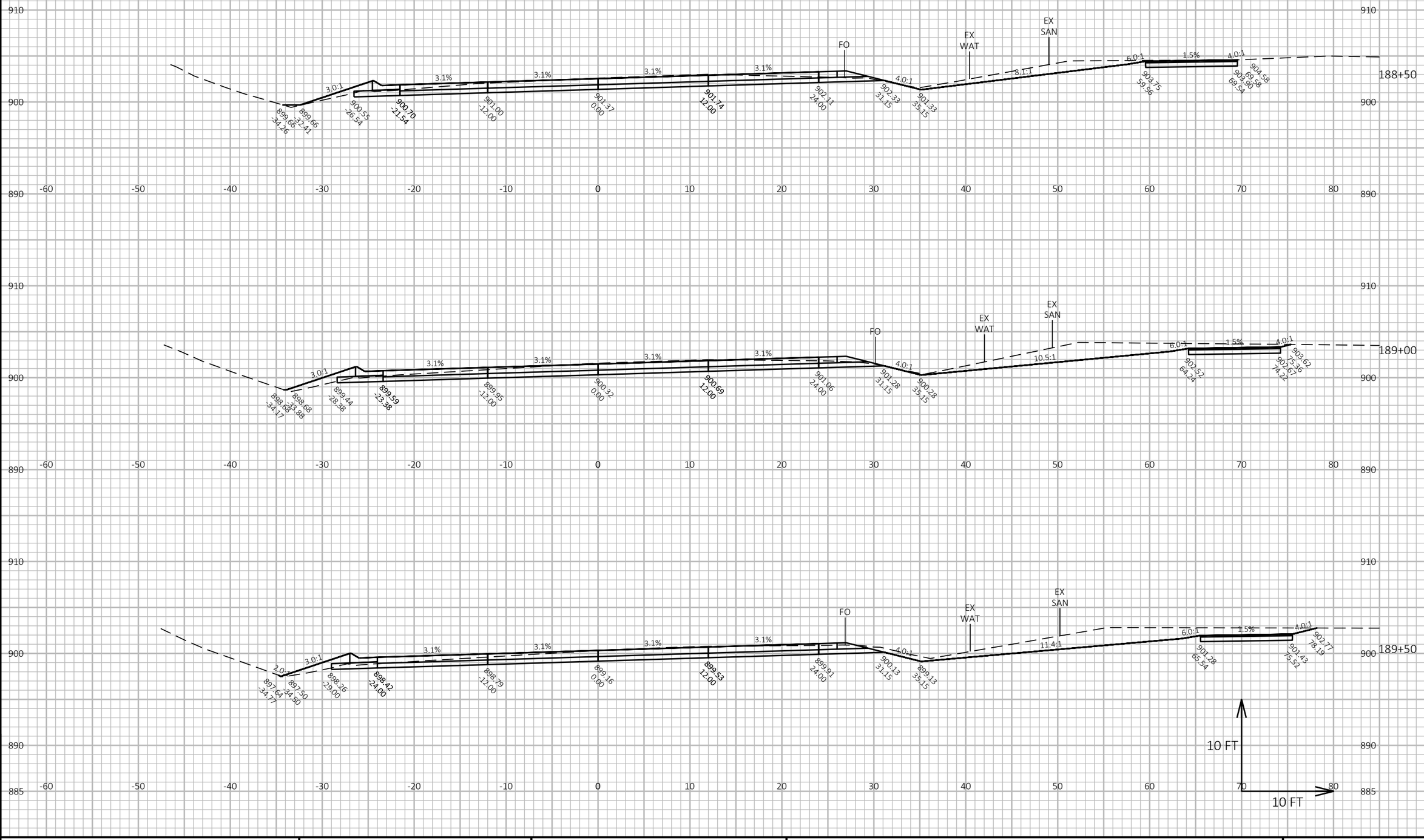
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 442	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 519

PLOT DATE : 12/2/2022 6:35 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



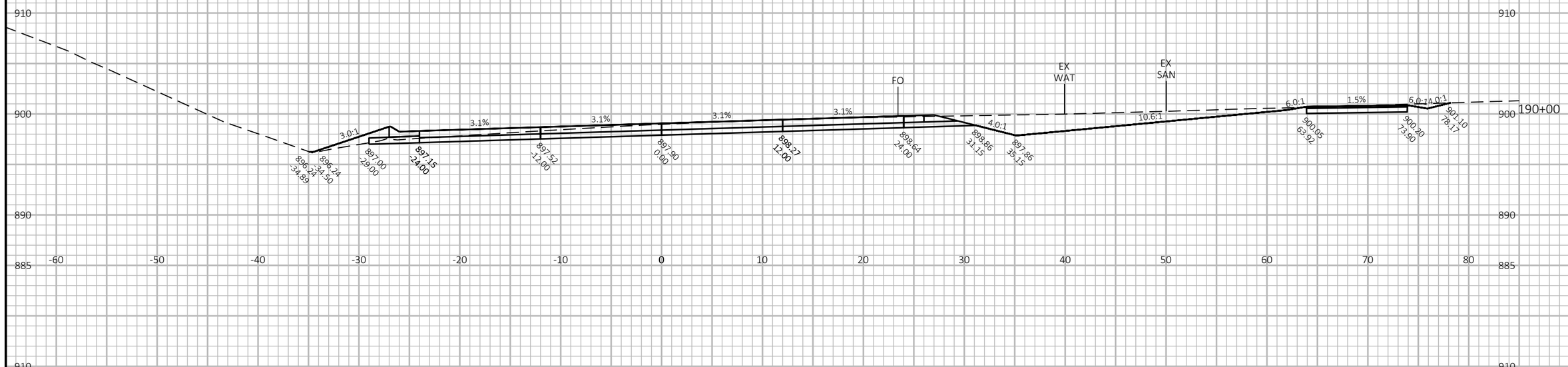
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 443	E

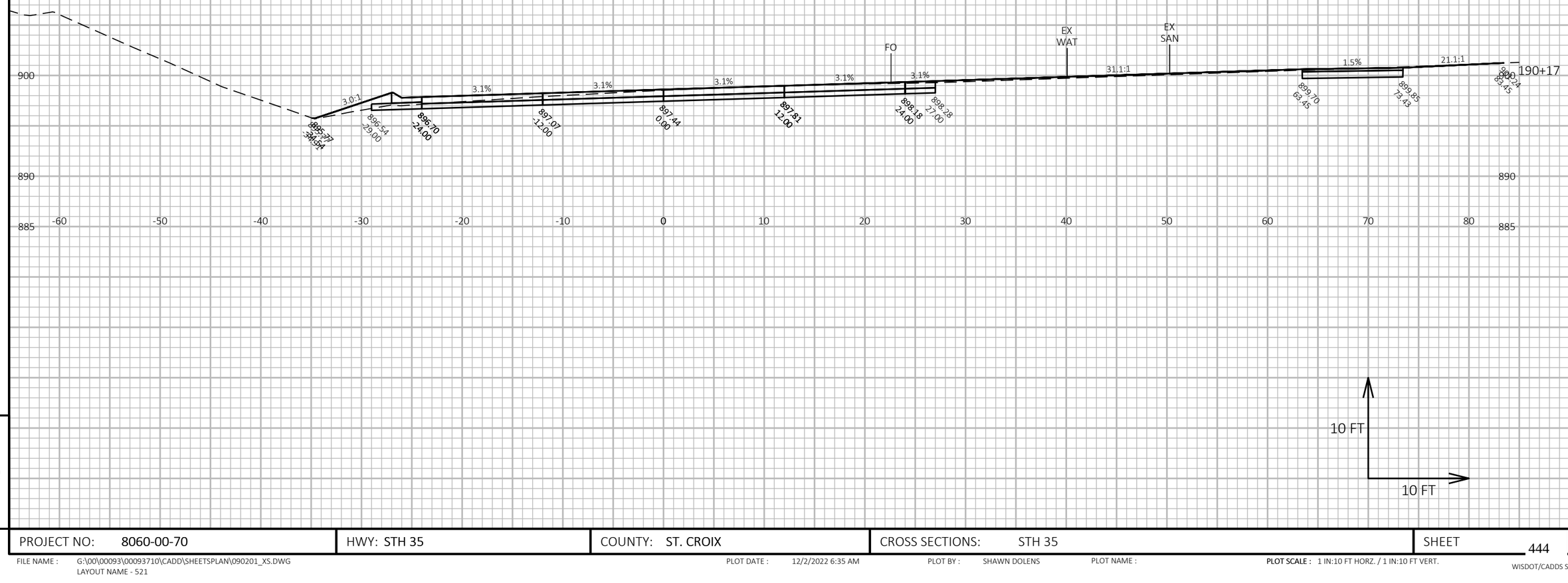
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 520

PLOT DATE : 12/2/2022 6:35 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.





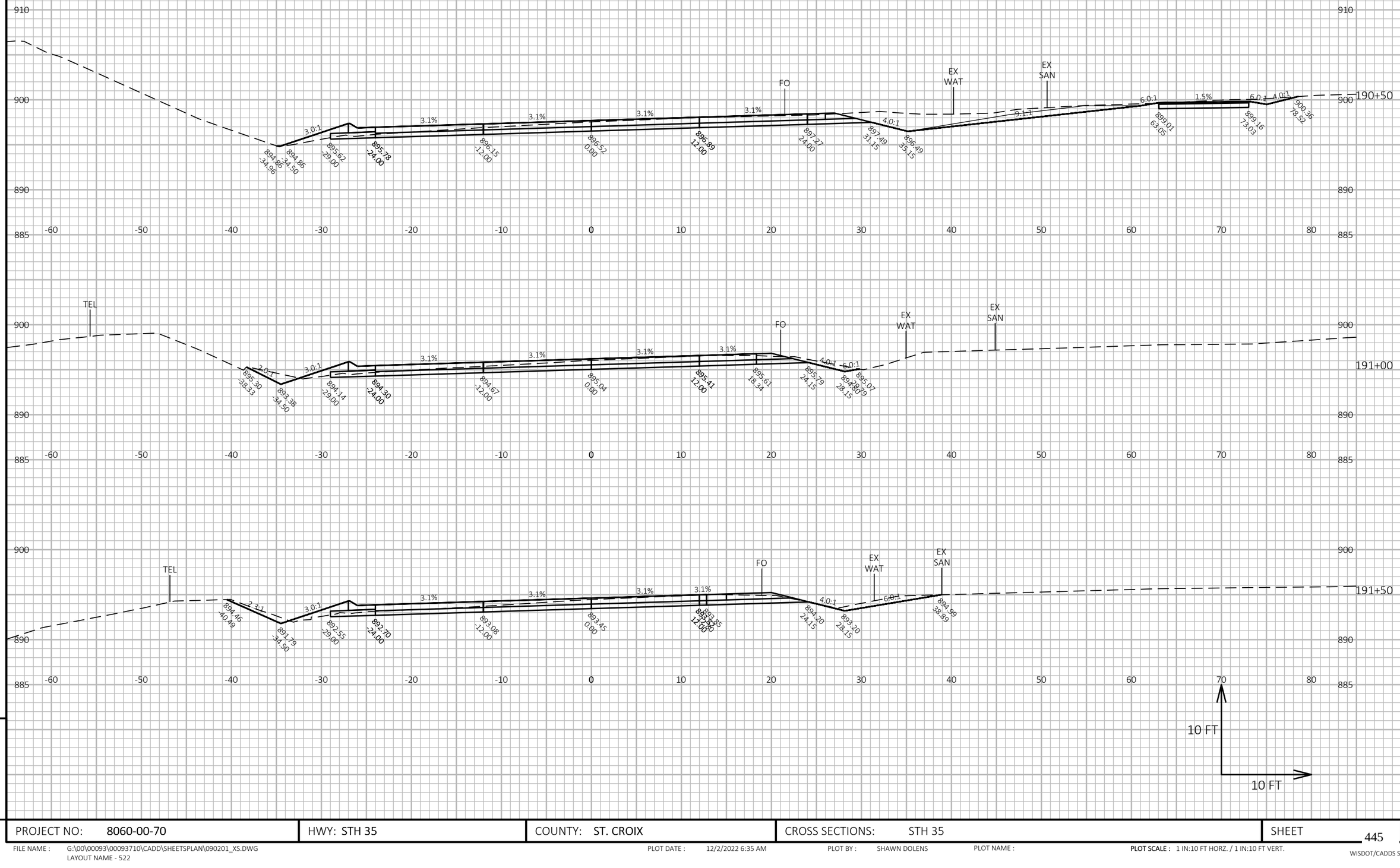
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 444	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 521

PLOT DATE : 12/2/2022 6:35 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 445	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 522

PLOT DATE : 12/2/2022 6:35 AM

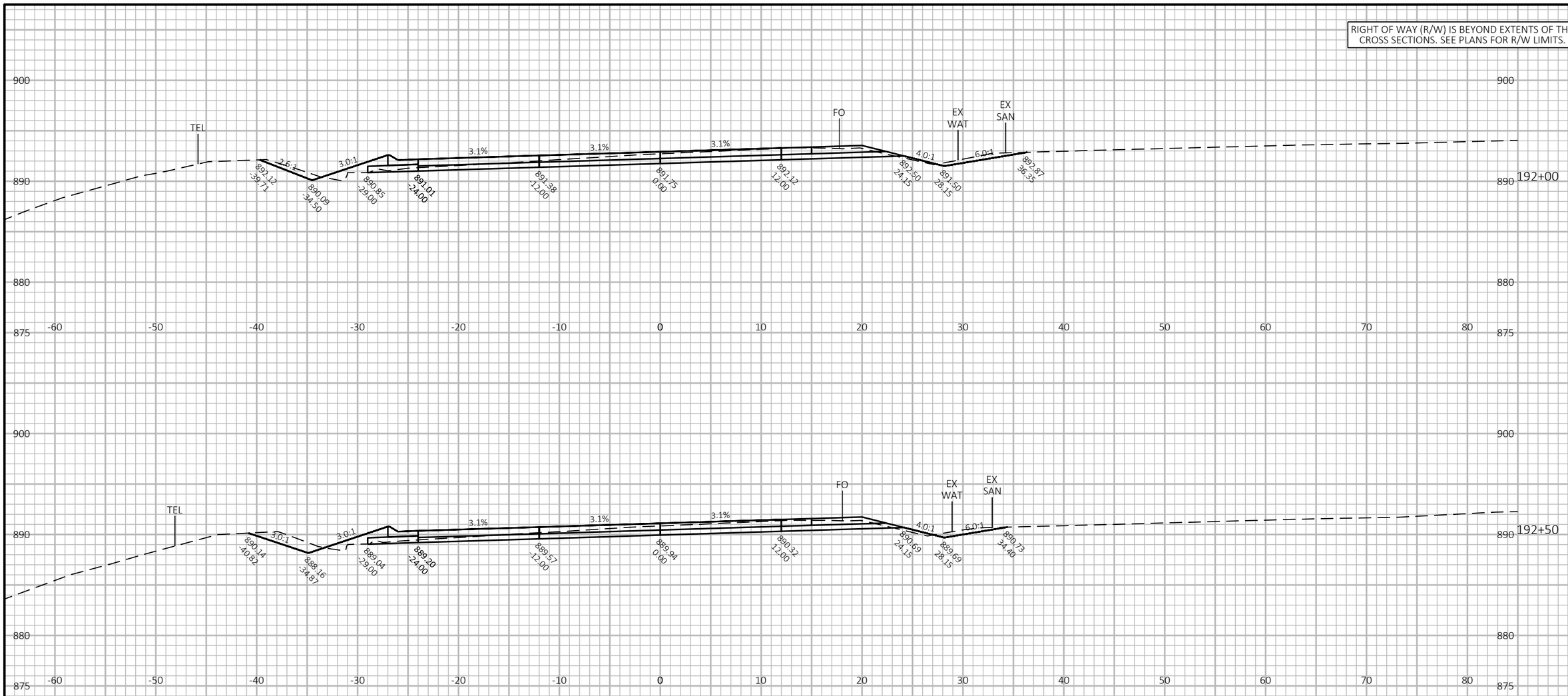
PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



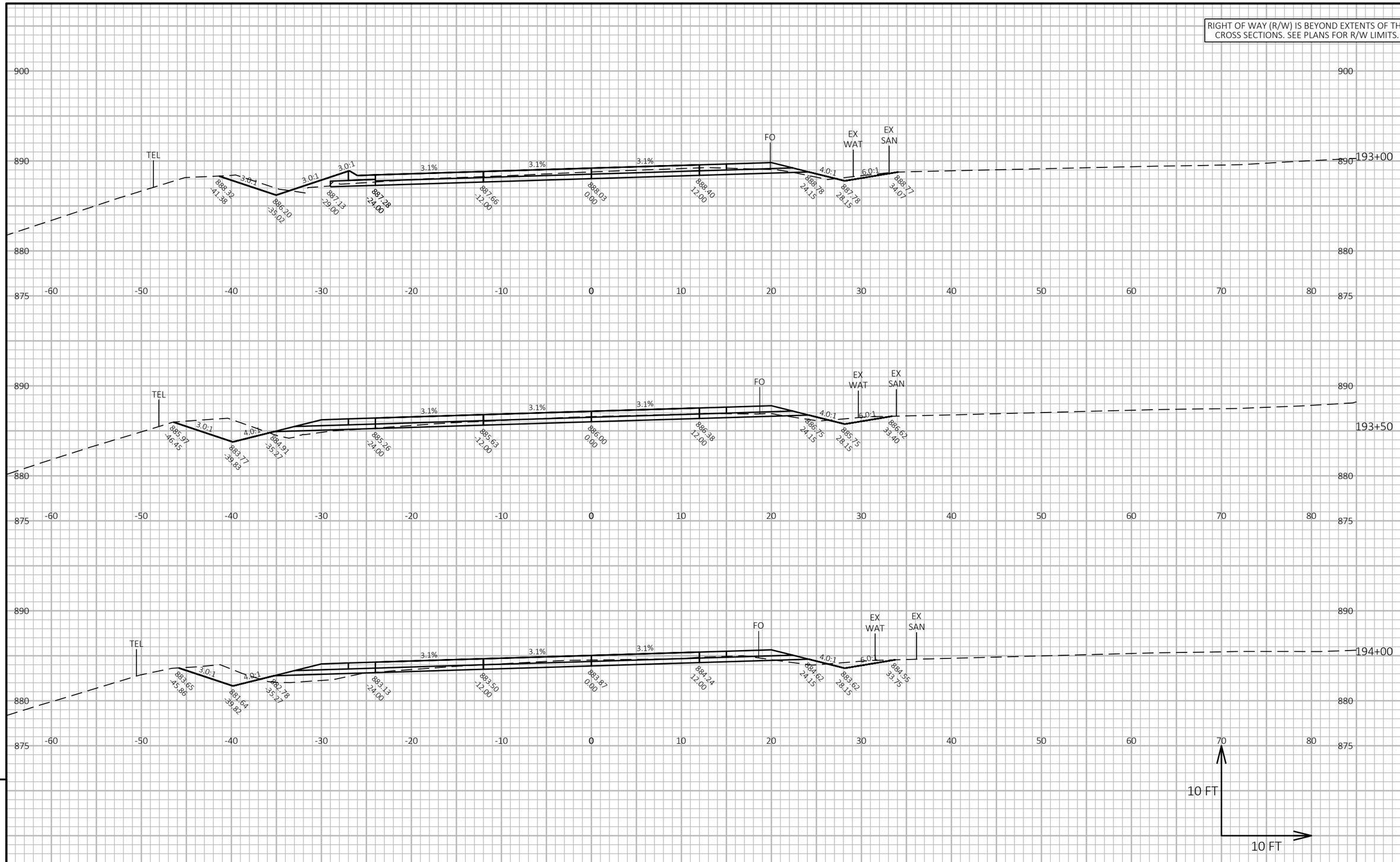
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 446	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 523

PLOT DATE : 12/2/2022 6:35 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 447	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 524

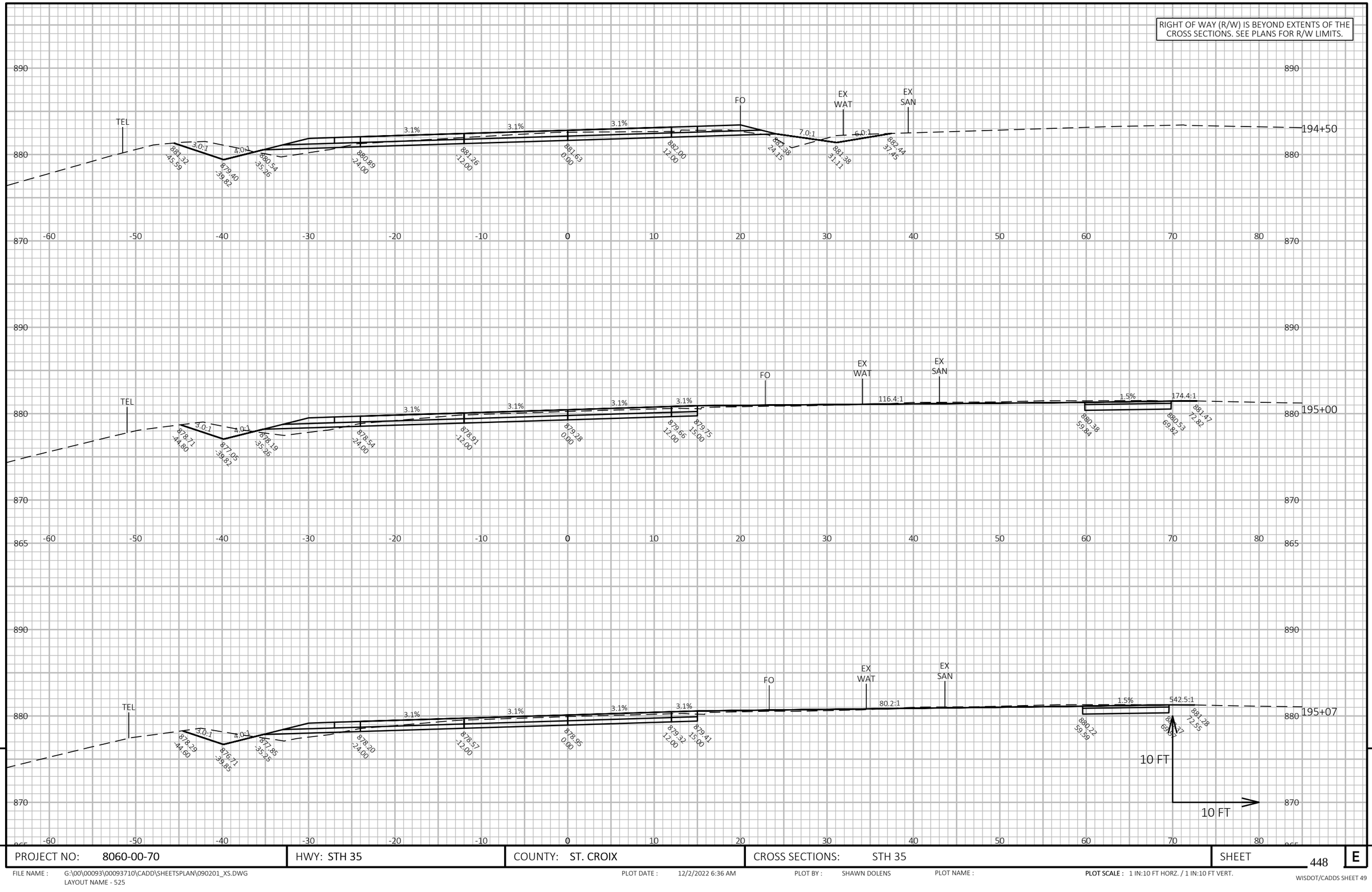
PLOT DATE : 12/2/2022 6:36 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 448	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 525

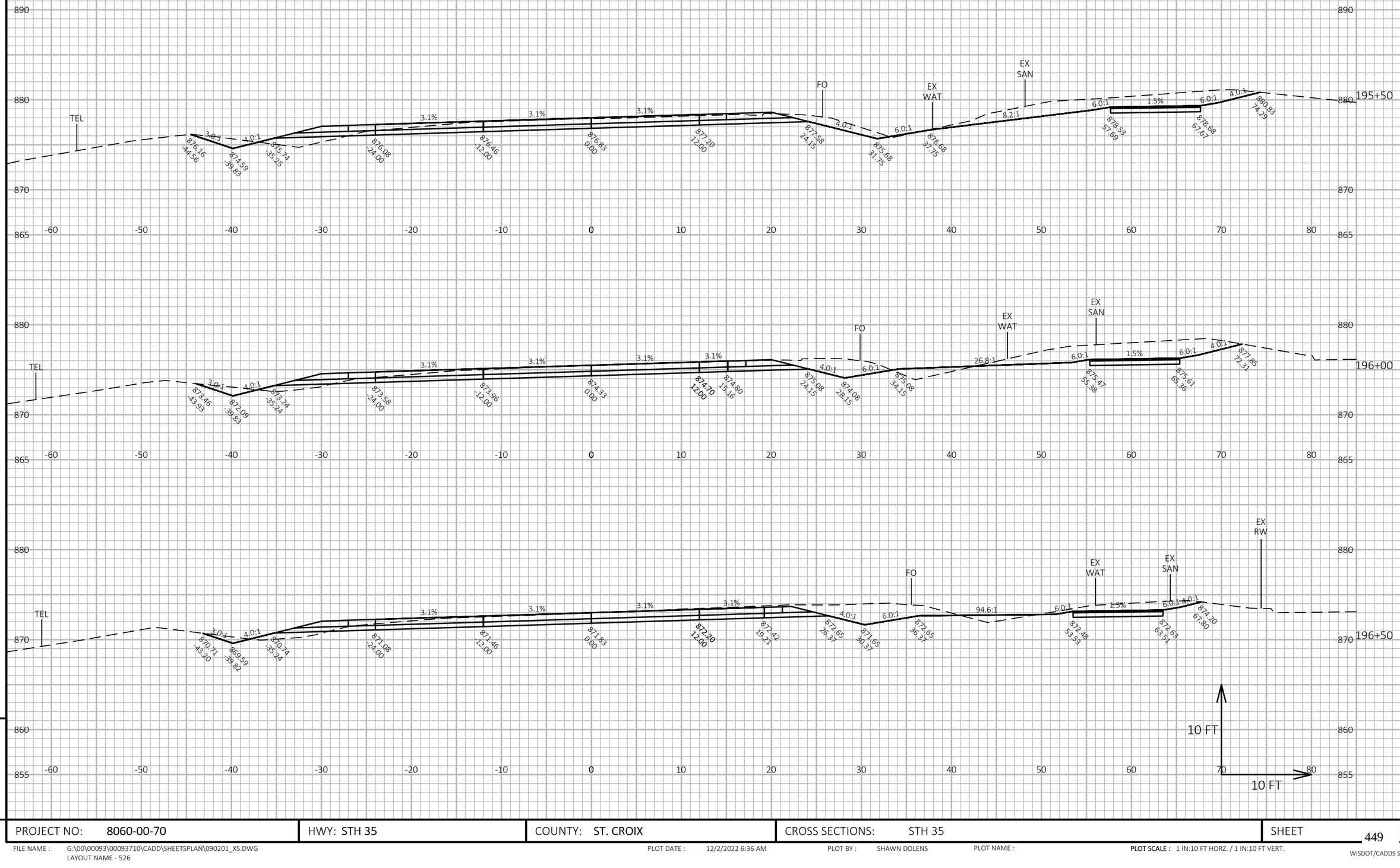
PLOT DATE : 12/2/2022 6:36 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



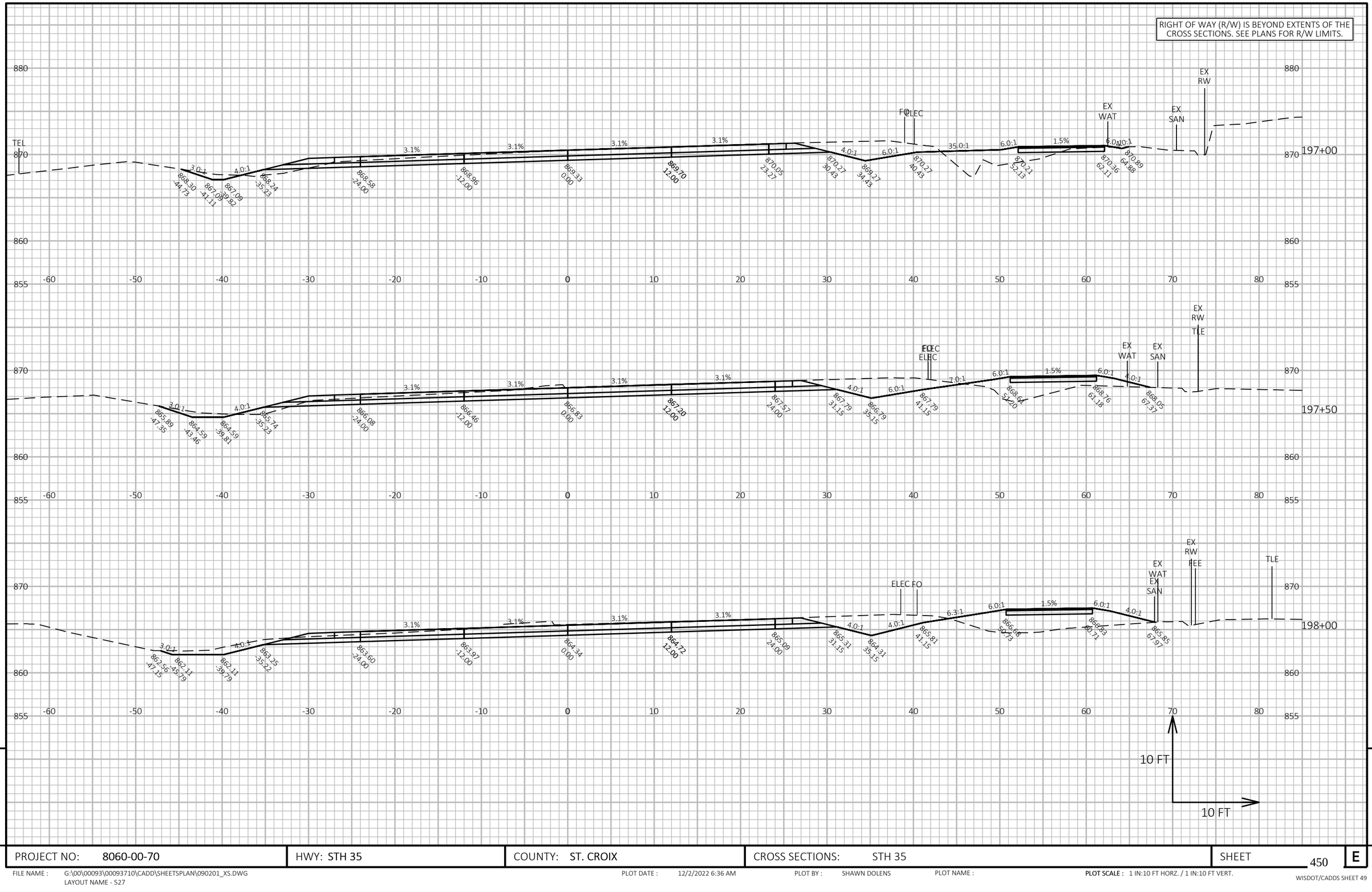
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 449	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 526

PLOT DATE : 12/2/2022 6:36 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



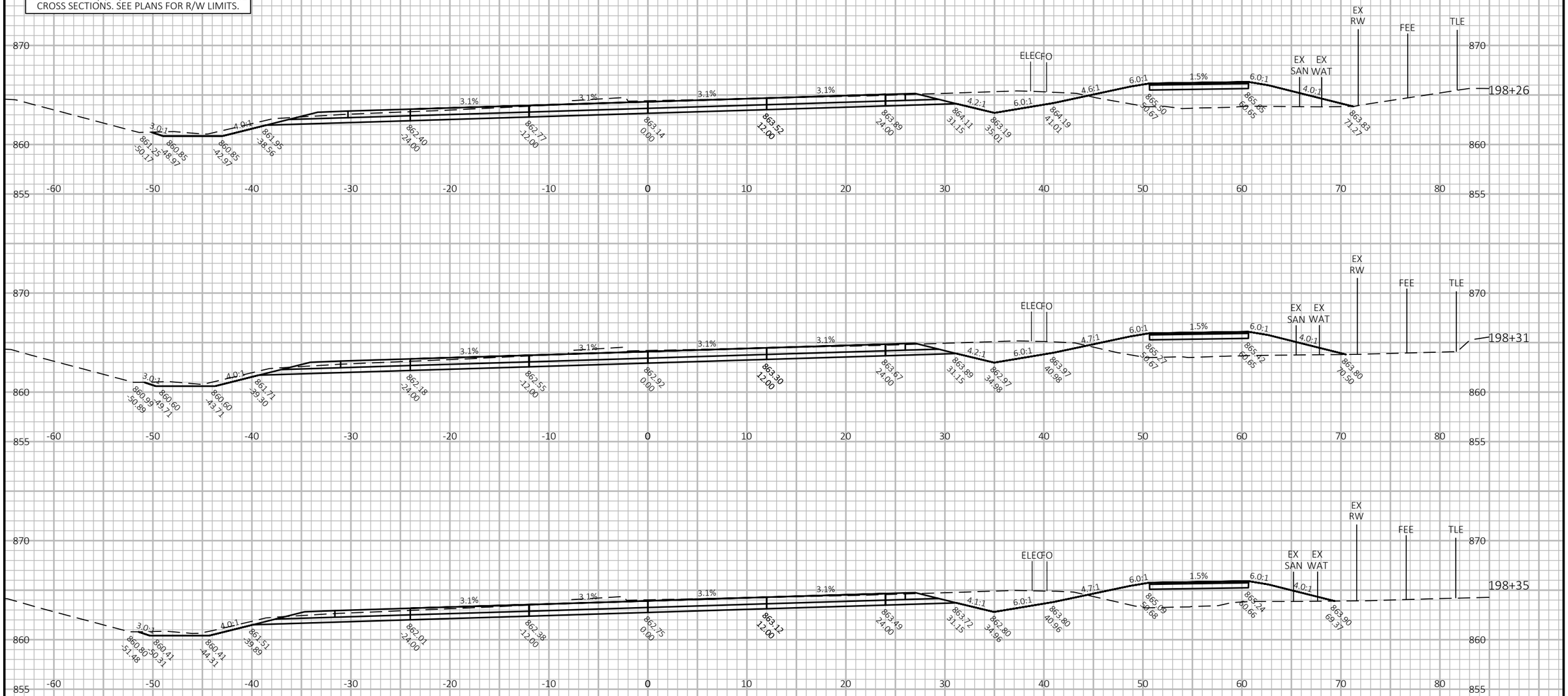
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 450	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 527

PLOT DATE : 12/2/2022 6:36 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 451	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 528

PLOT DATE : 12/2/2022 6:36 AM

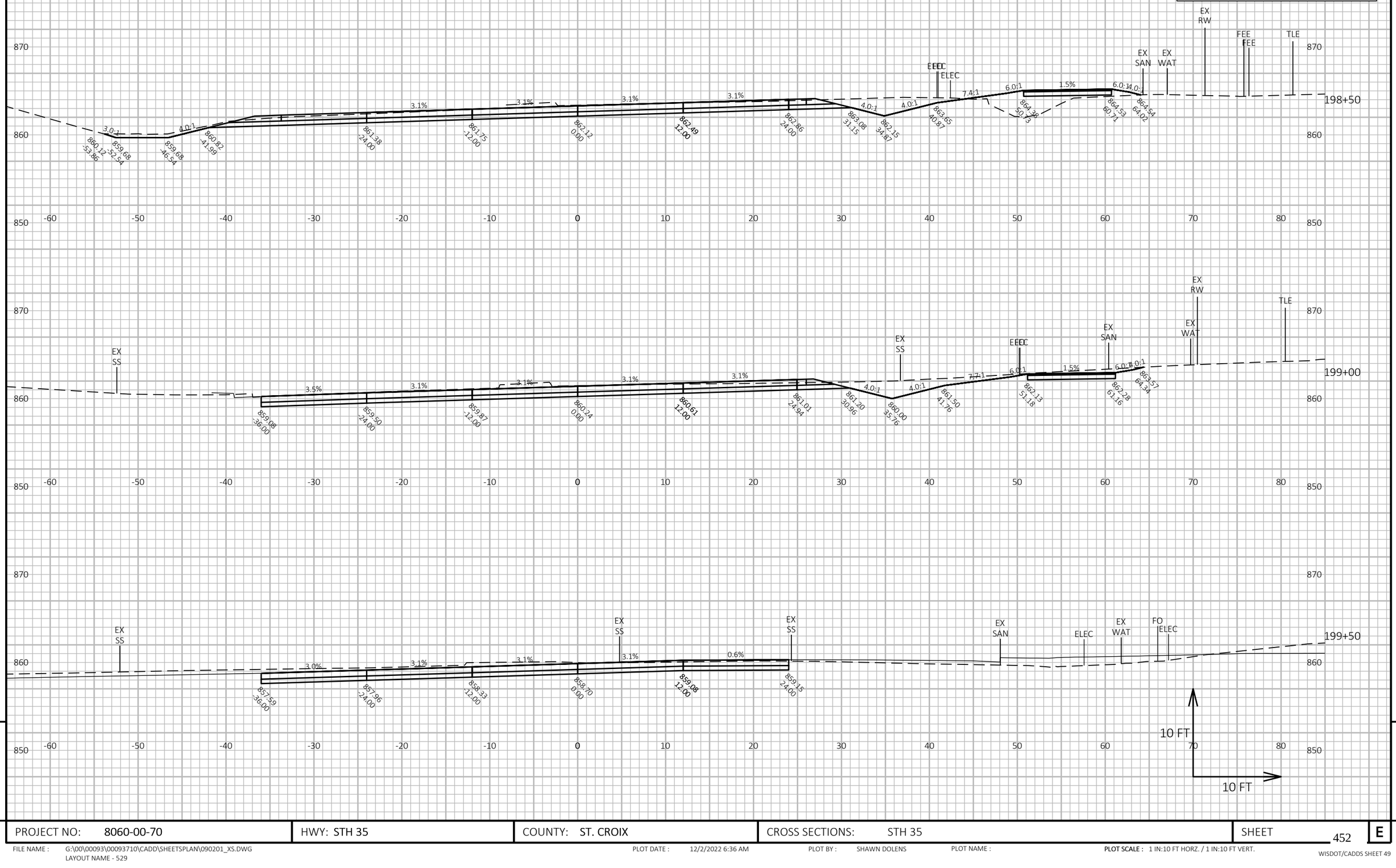
PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 452	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 529

PLOT DATE : 12/2/2022 6:36 AM

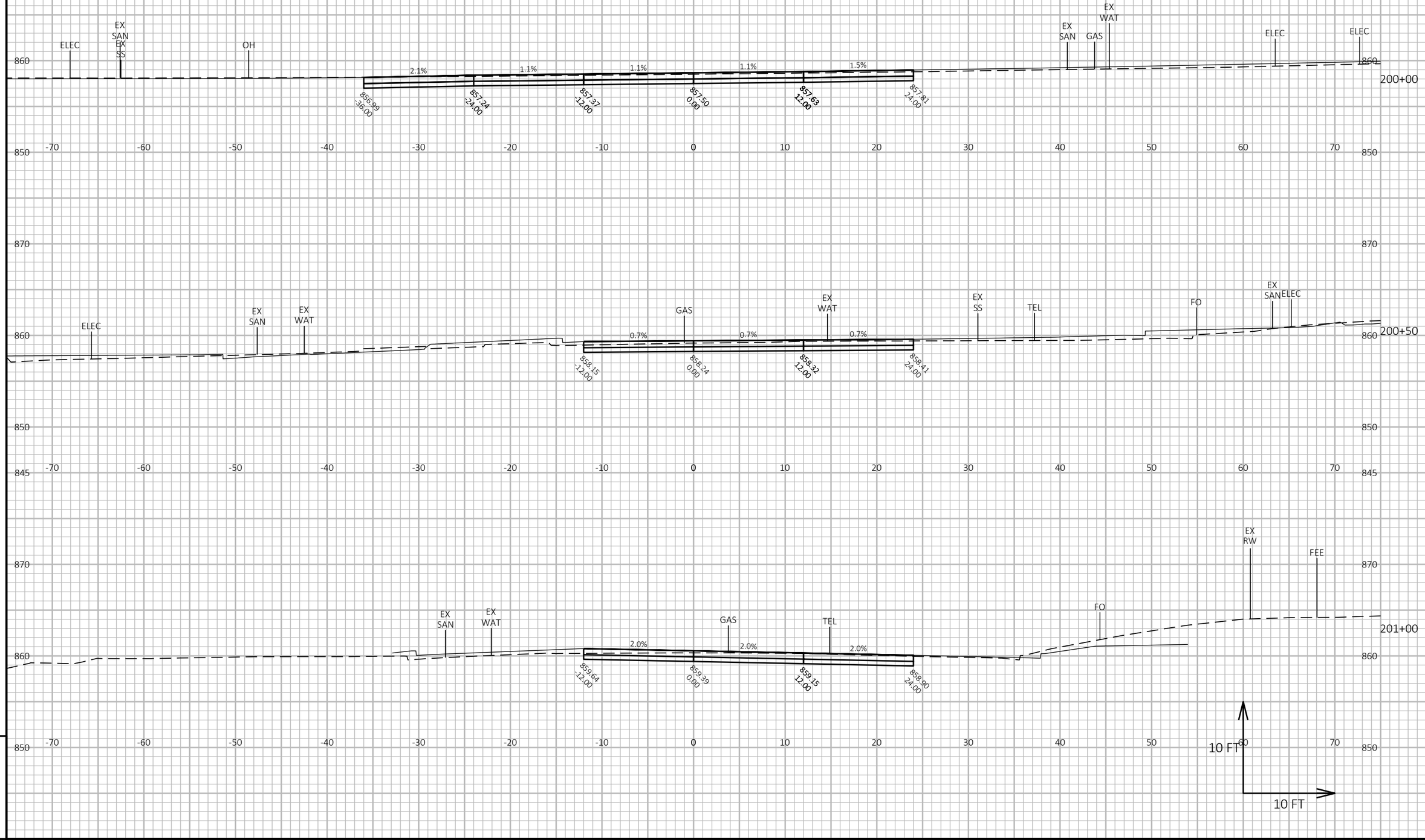
PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 453	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 530

PLOT DATE : 12/2/2022 6:36 AM

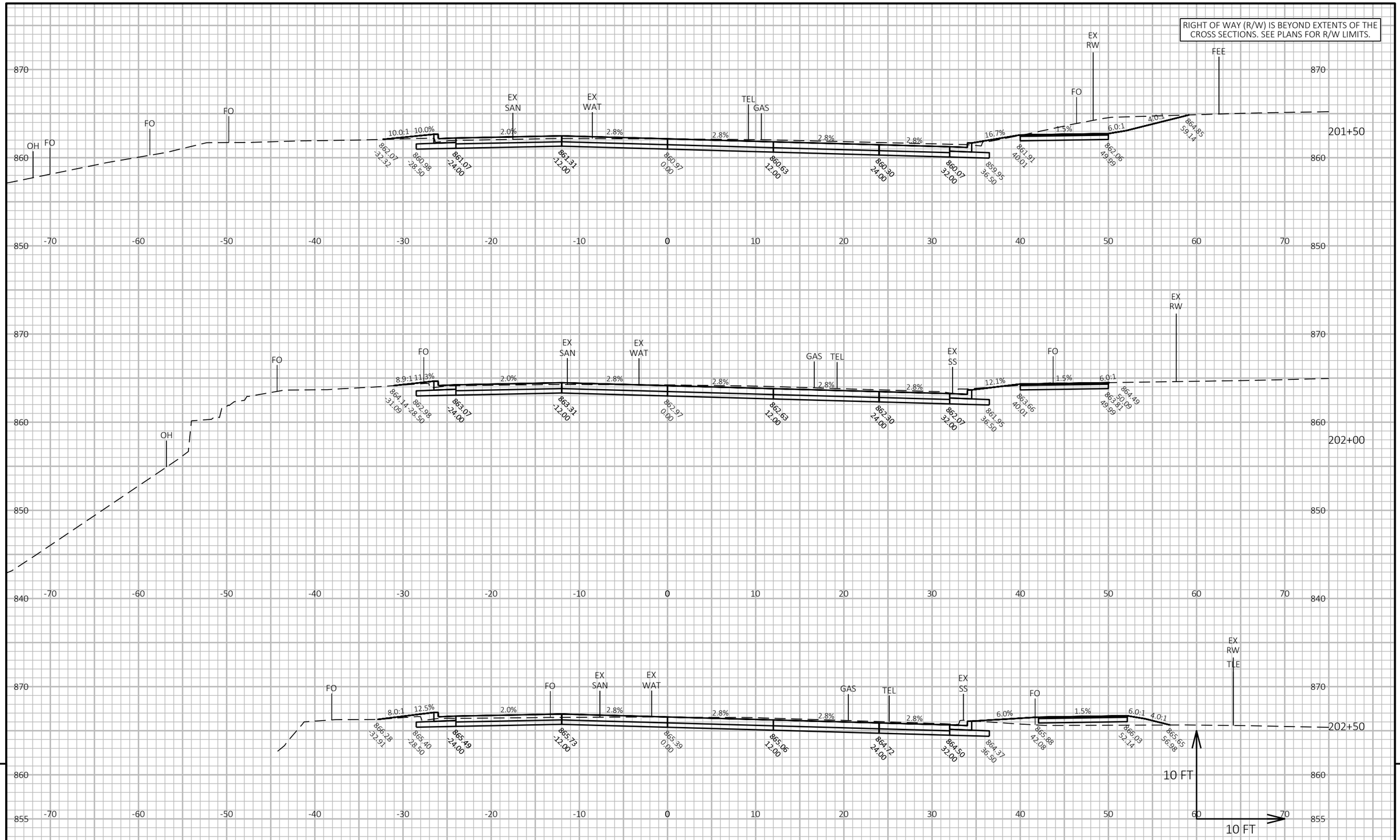
PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



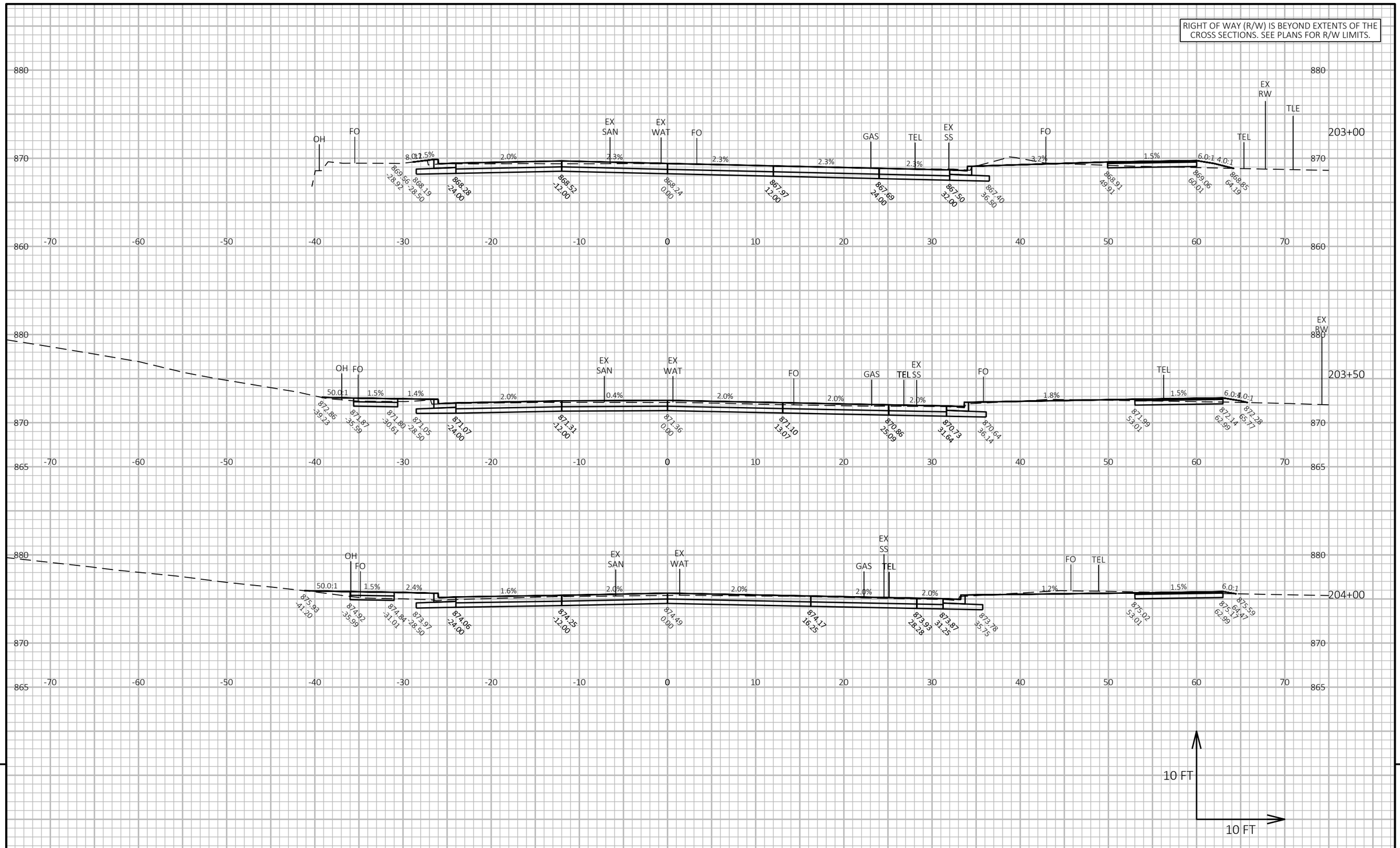
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 454	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 531

PLOT DATE : 12/2/2022 6:36 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 455	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 532

PLOT DATE : 12/2/2022 6:37 AM

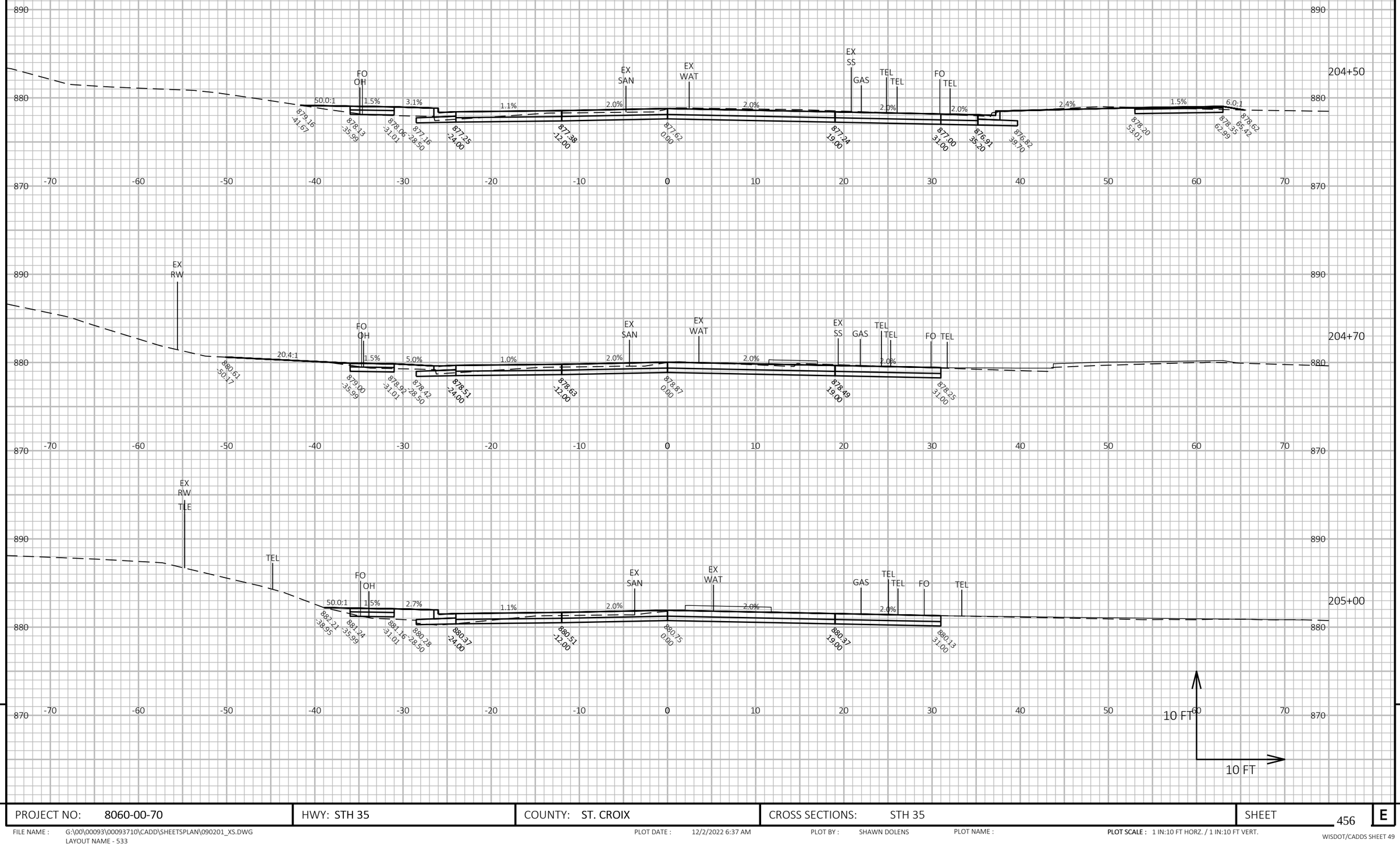
PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 456	E

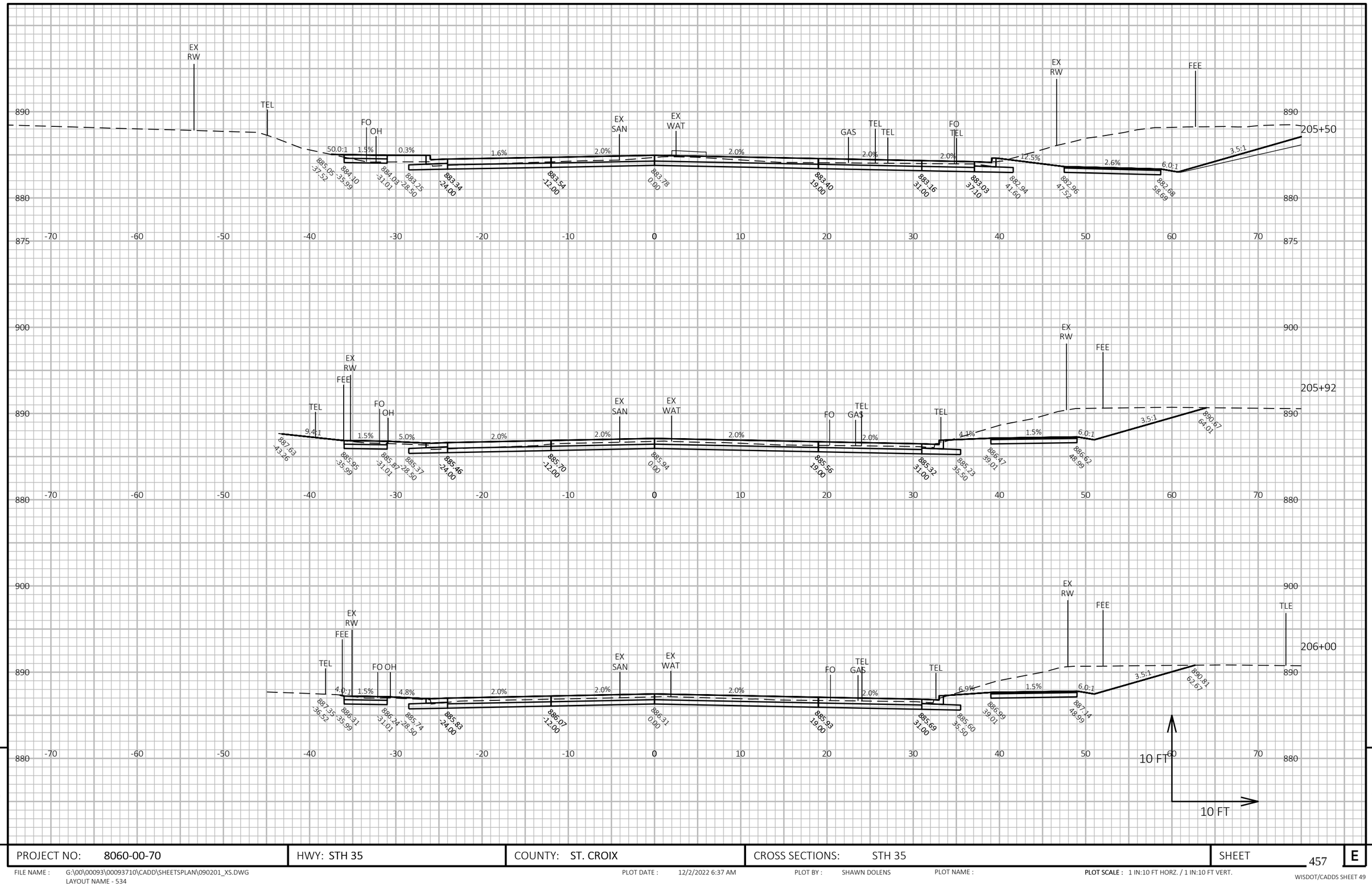
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 533

PLOT DATE : 12/2/2022 6:37 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

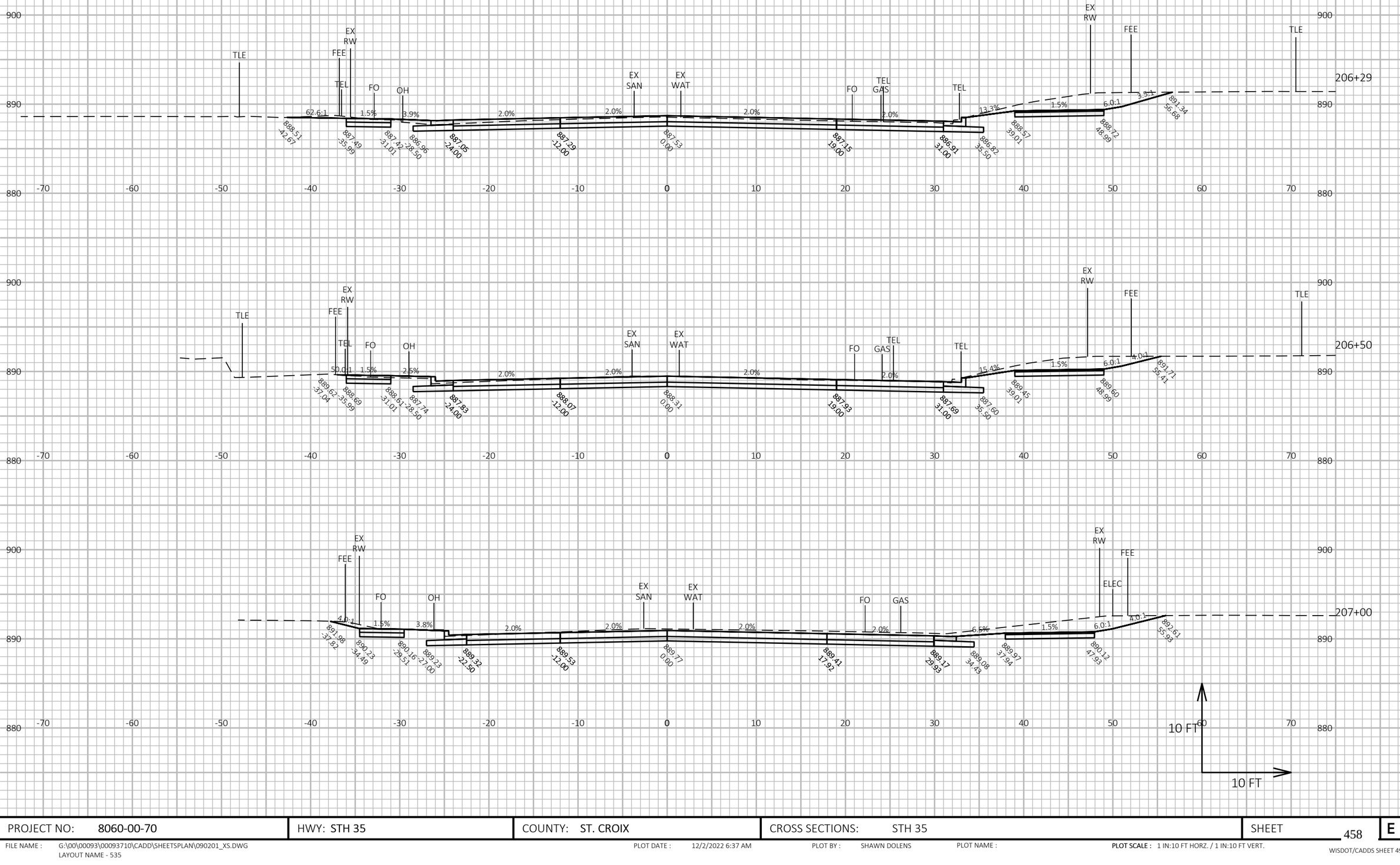


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 457	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 534

PLOT DATE : 12/2/2022 6:37 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 458	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 535

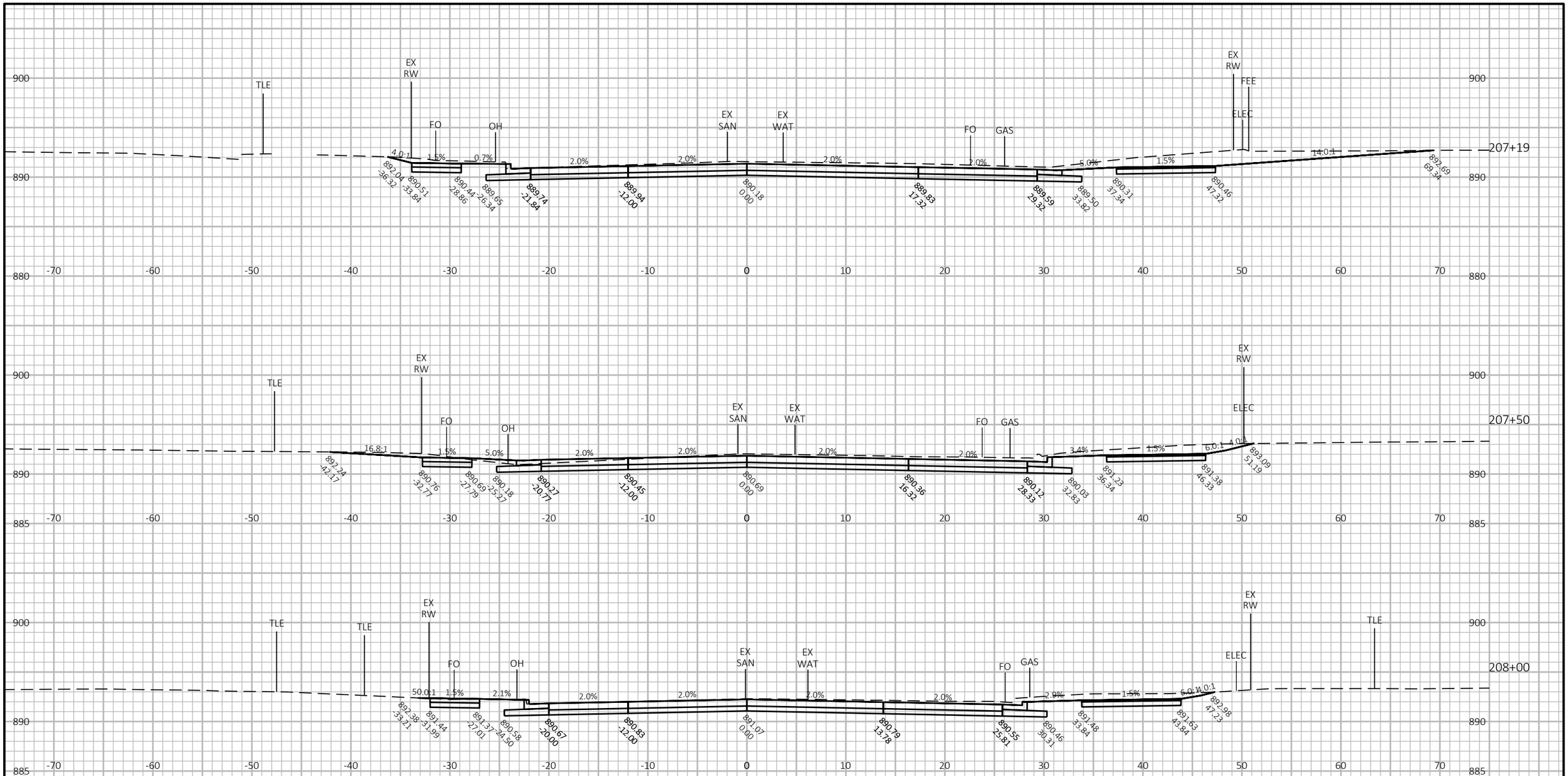
PLOT DATE : 12/2/2022 6:37 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49

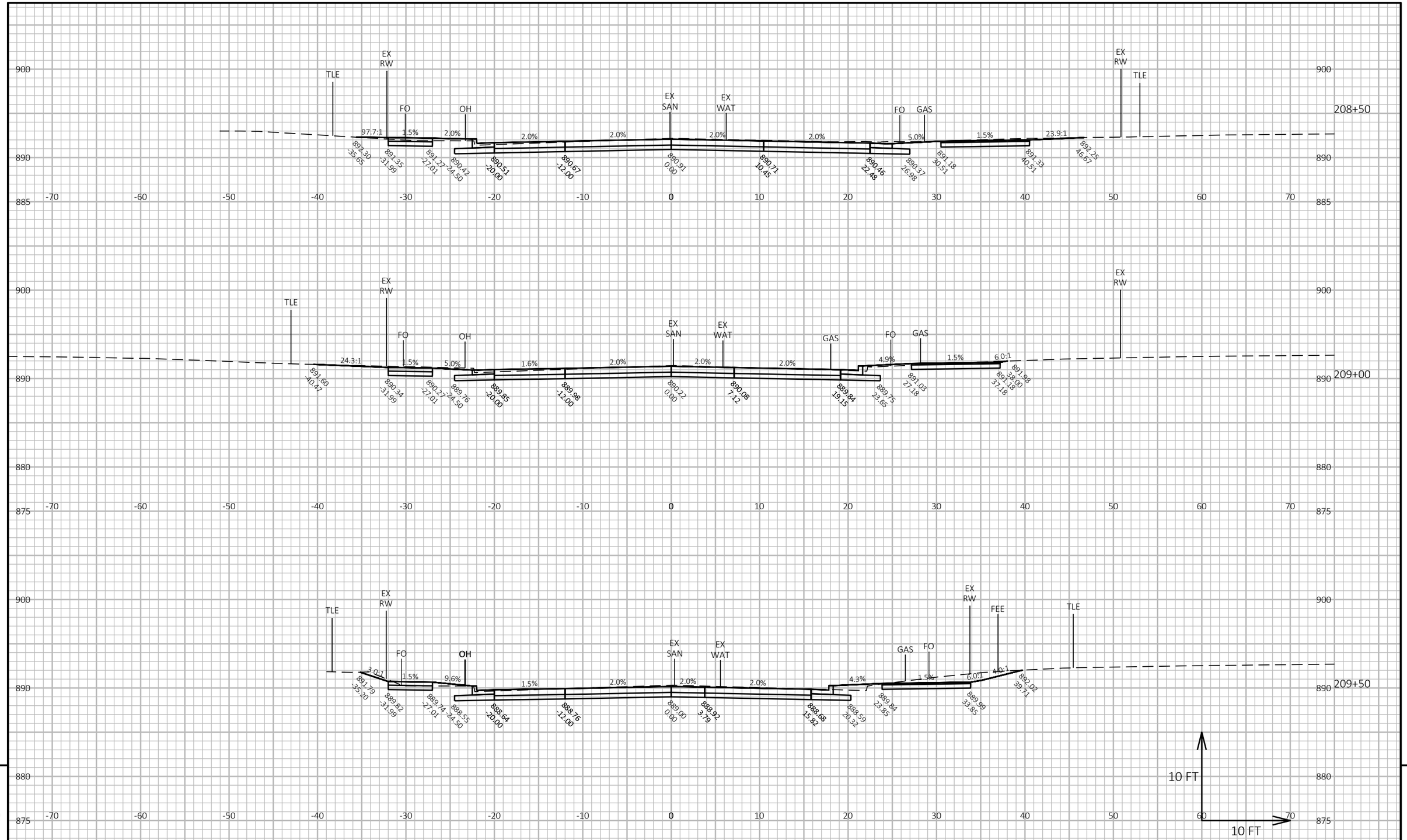


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 459	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 536

PLOT DATE : 12/2/2022 6:37 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



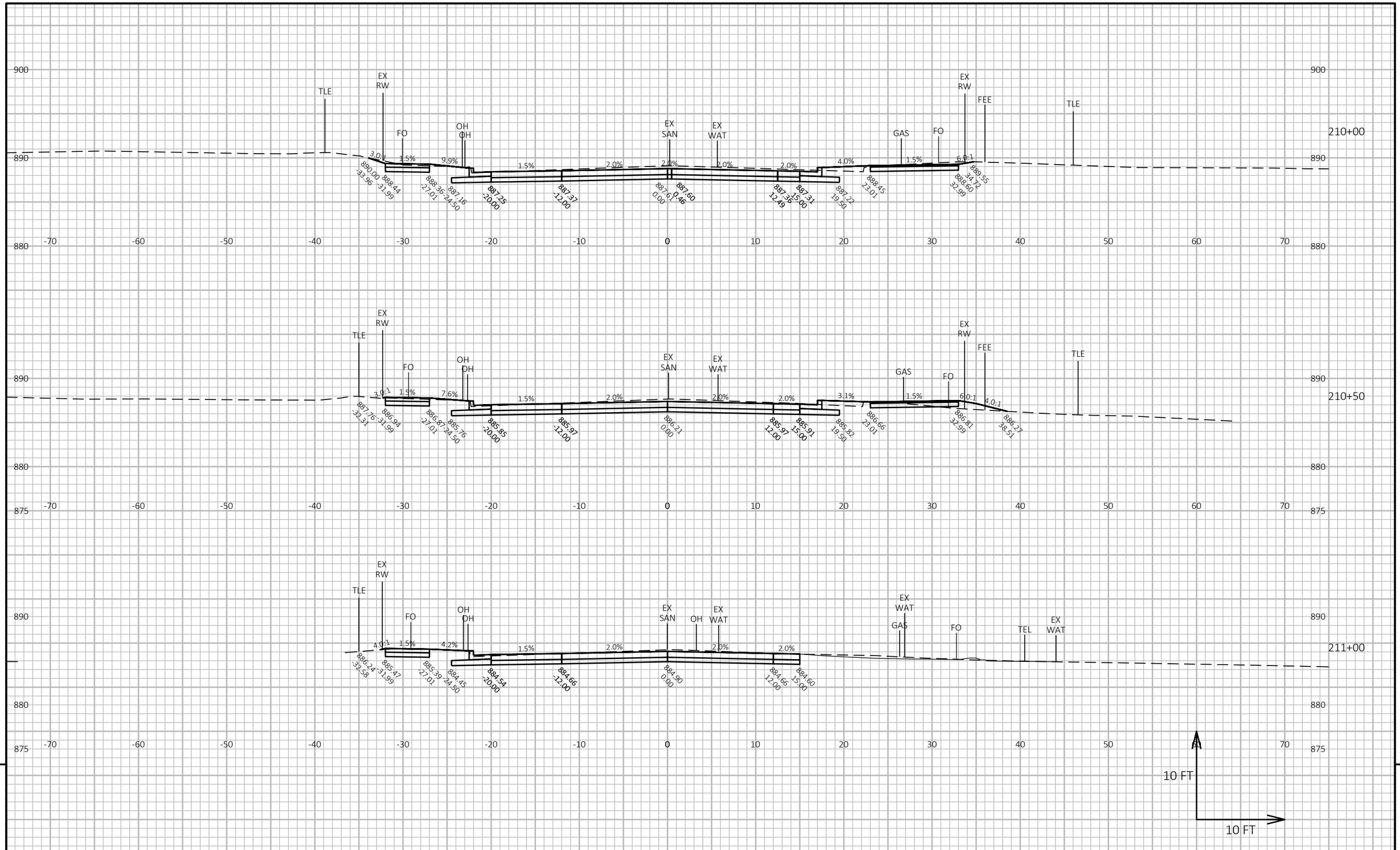
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 460	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 537

PLOT DATE : 12/2/2022 6:37 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49

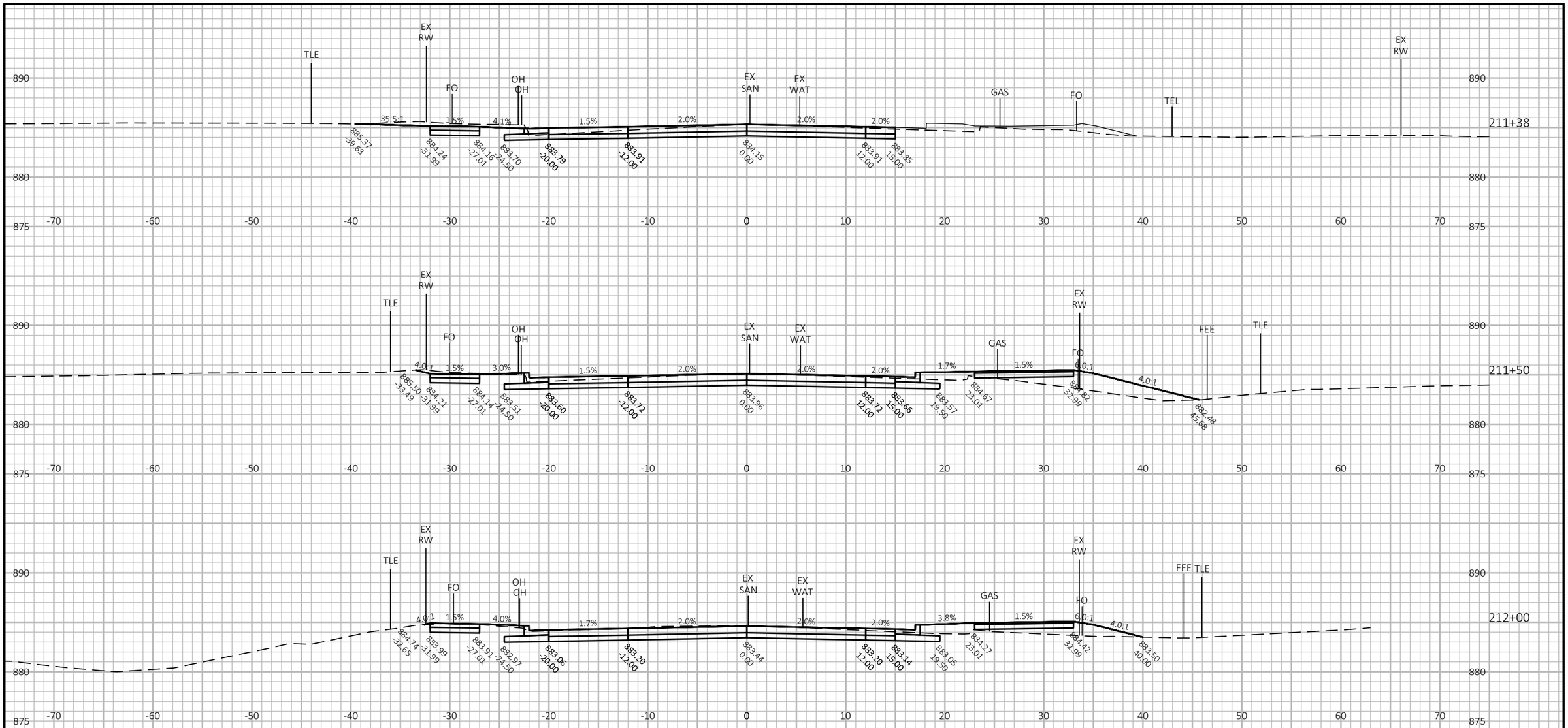


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 461	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 538

PLOT DATE : 12/2/2022 6:37 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 462	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 539

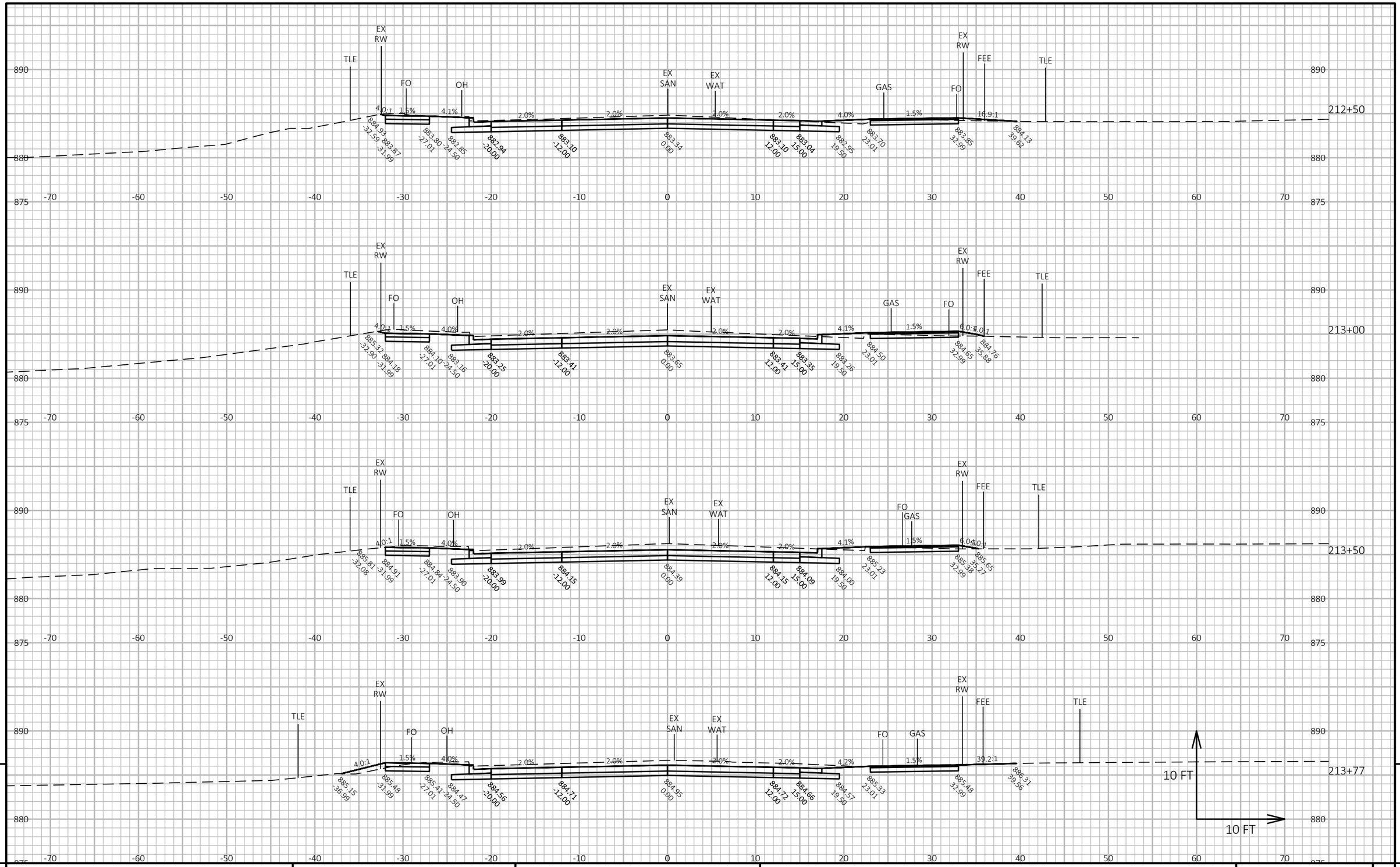
PLOT DATE : 12/2/2022 6:37 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 463	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 540

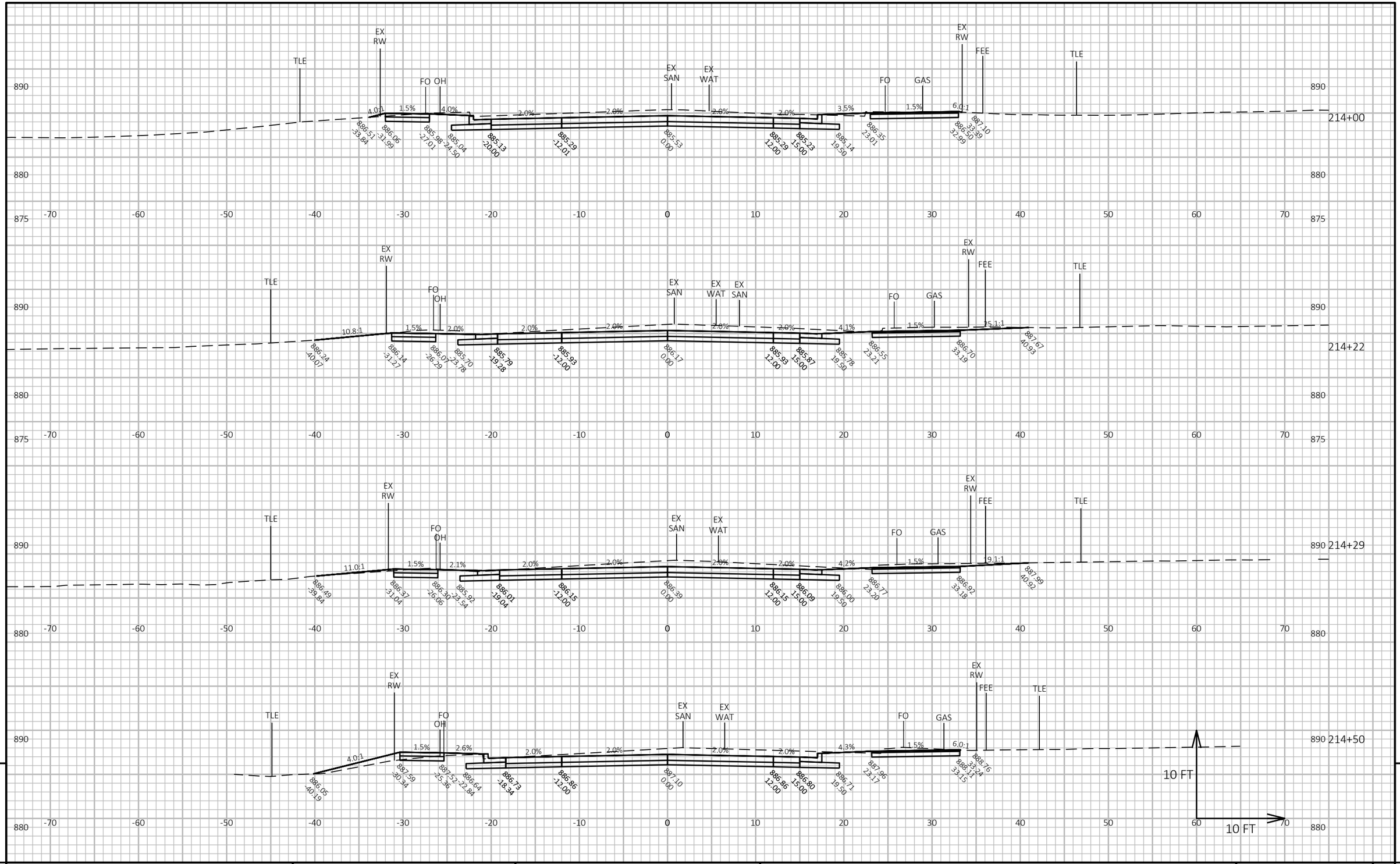
PLOT DATE : 12/2/2022 6:38 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 464	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 541

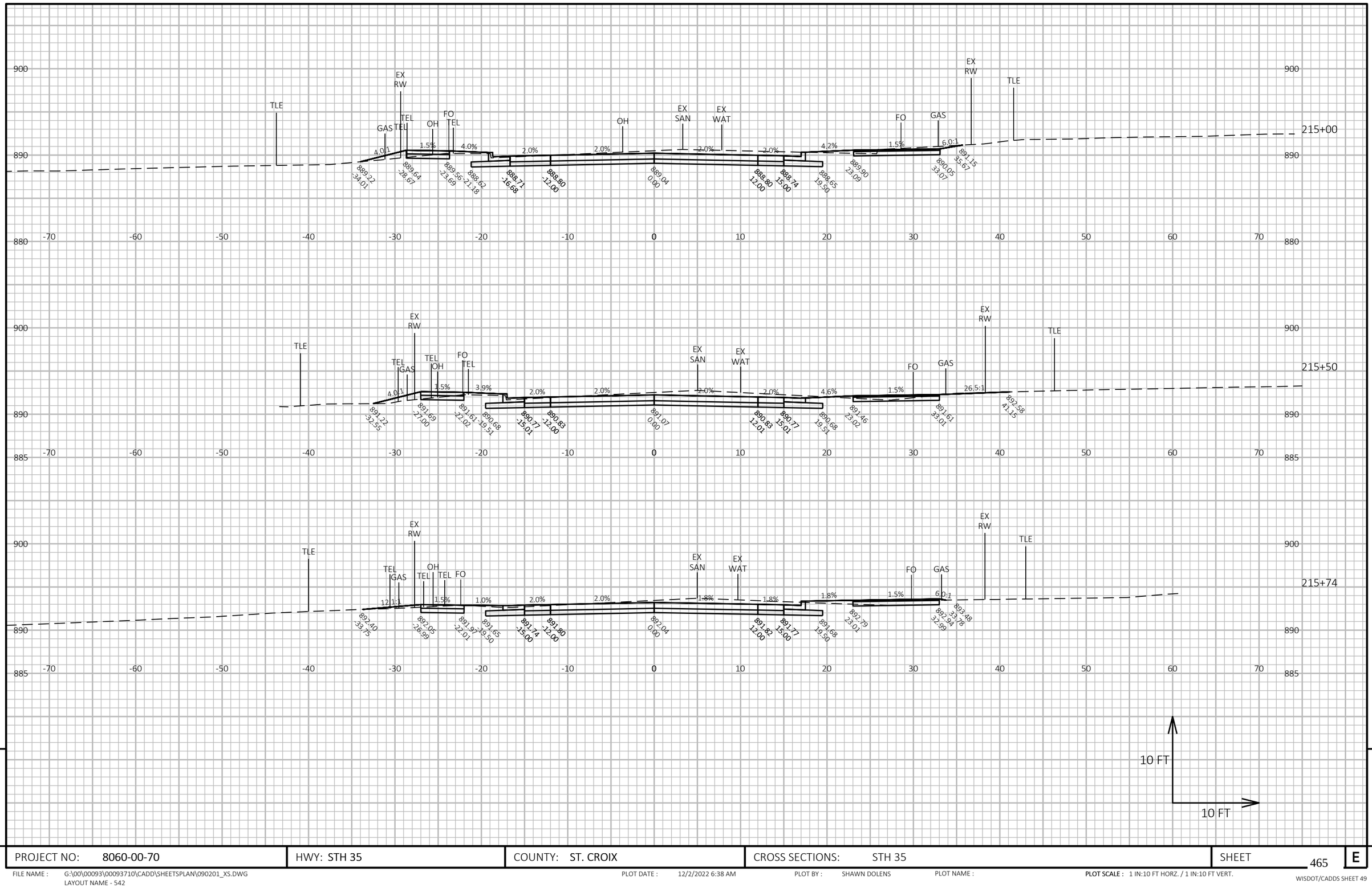
PLOT DATE : 12/2/2022 6:38 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 465	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 542

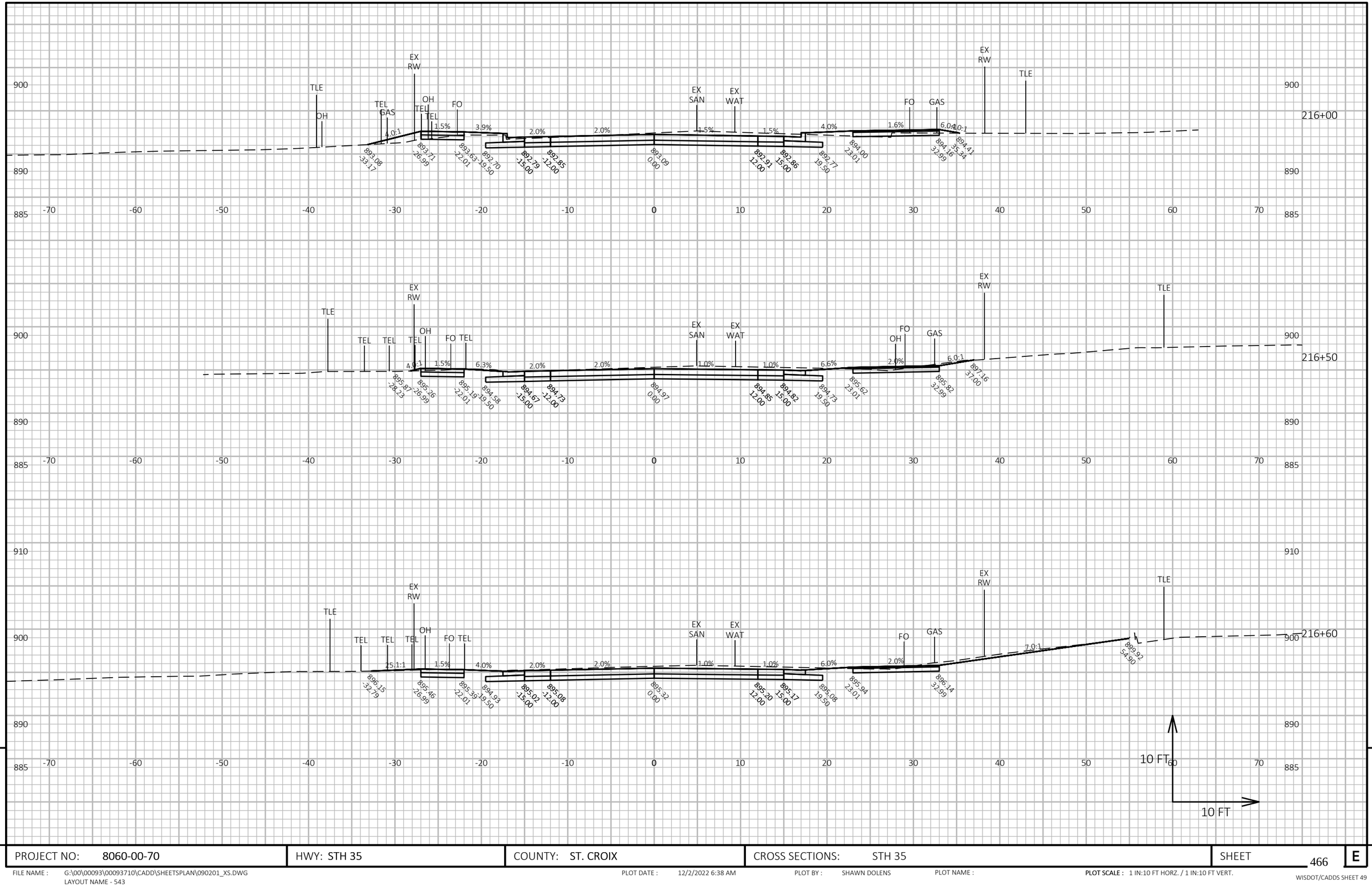
PLOT DATE : 12/2/2022 6:38 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



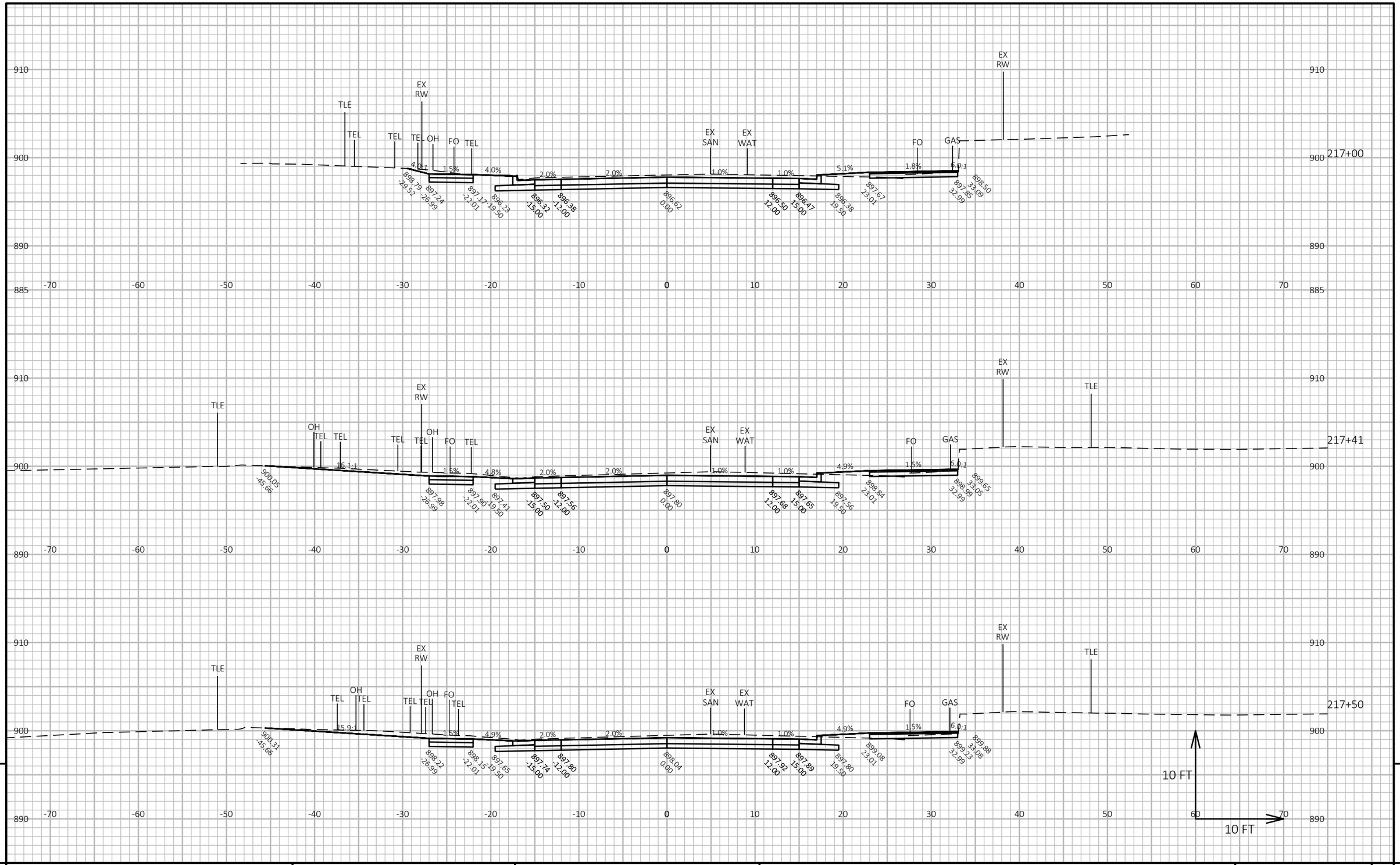
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 466	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 543

PLOT DATE : 12/2/2022 6:38 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 467 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 544

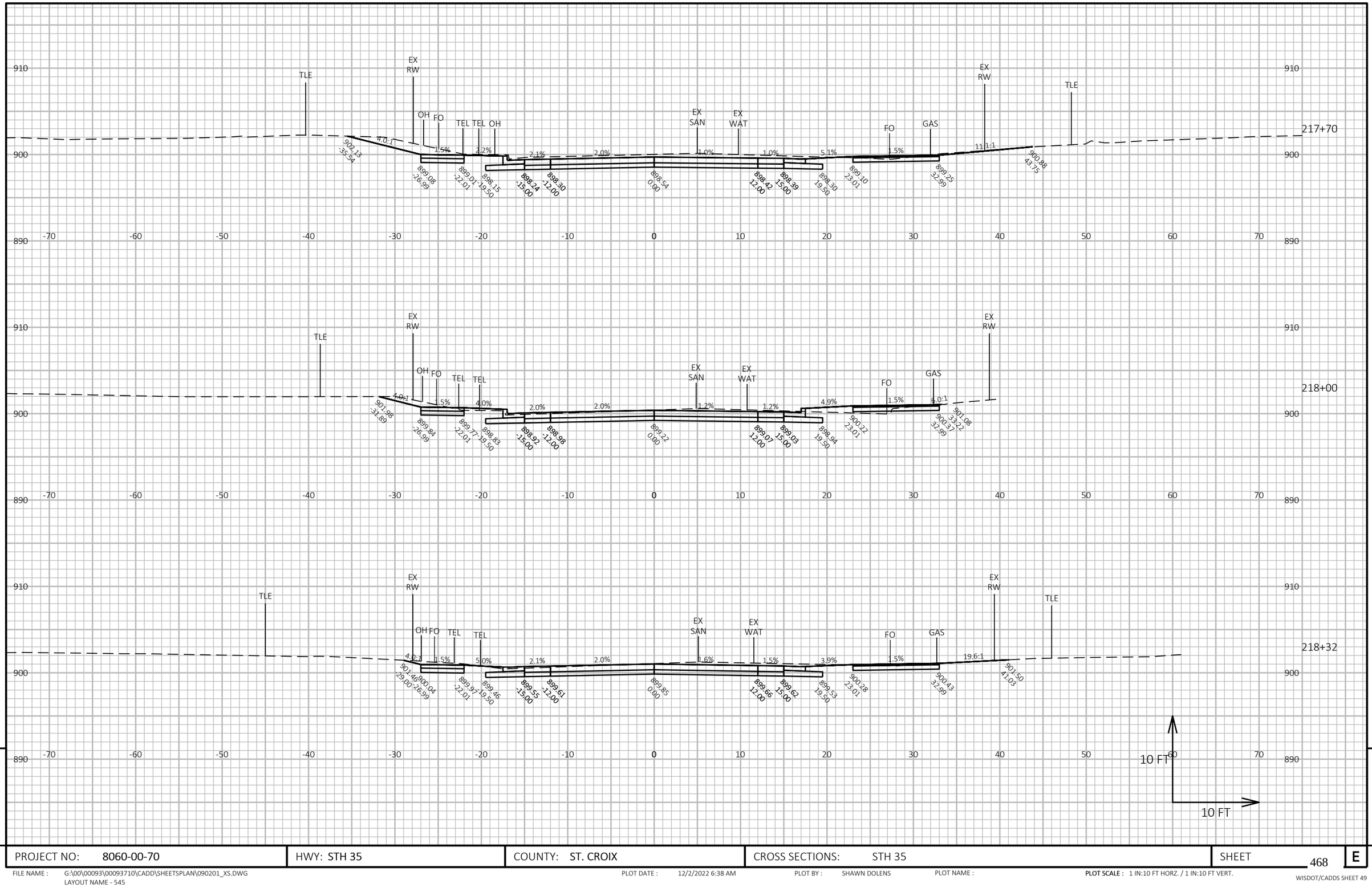
PLOT DATE : 12/2/2022 6:38 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



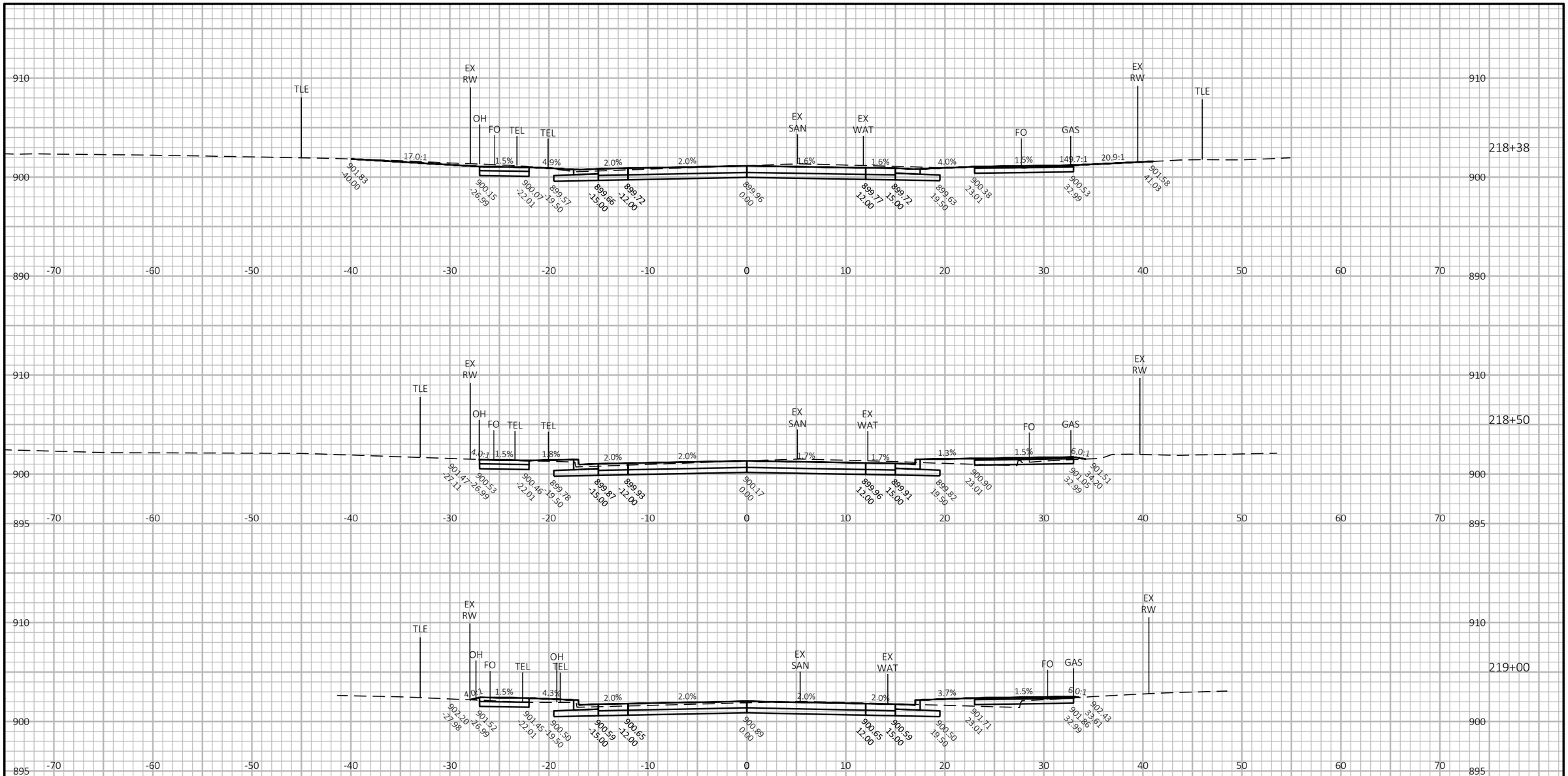
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 468	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 545

PLOT DATE : 12/2/2022 6:38 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 469	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 546

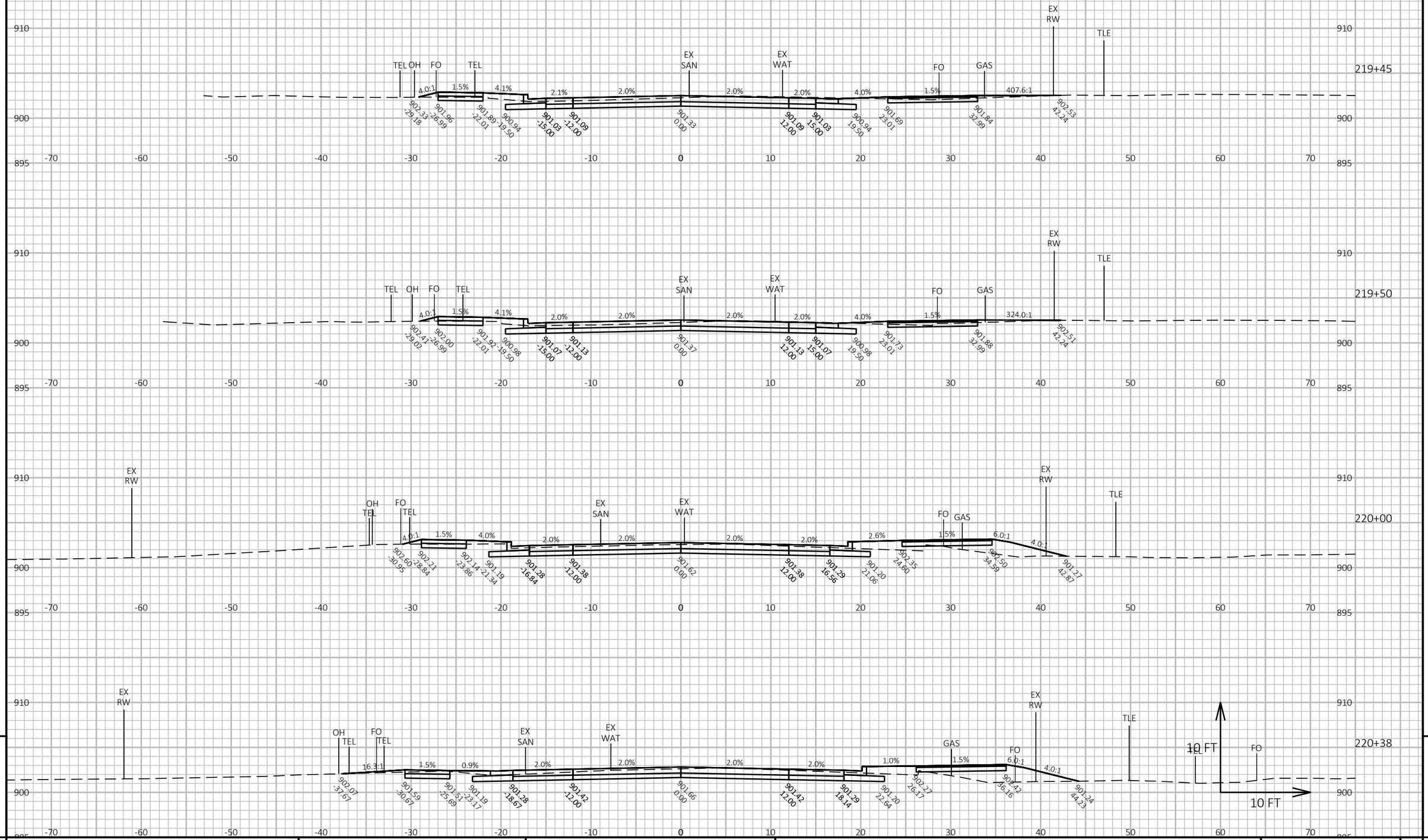
PLOT DATE : 12/2/2022 6:38 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 470	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 547

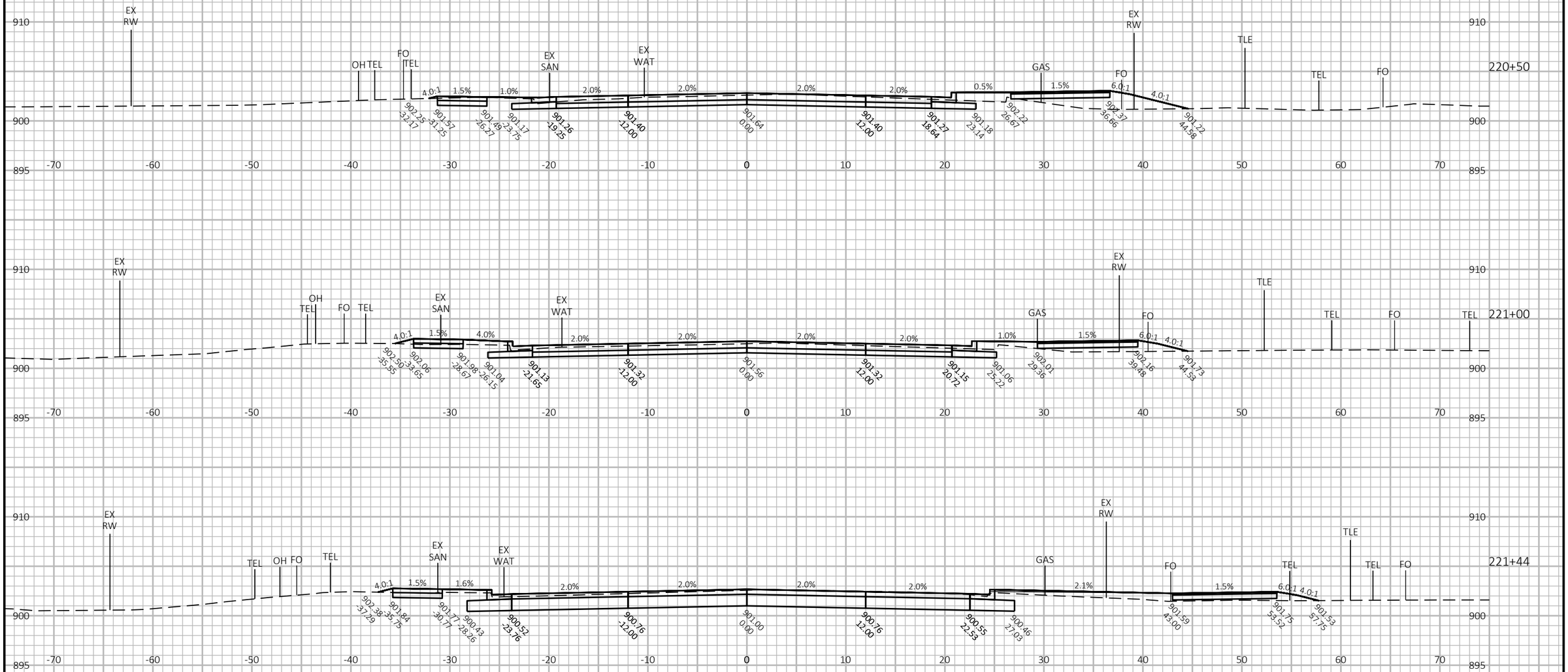
PLOT DATE : 12/2/2022 6:38 AM

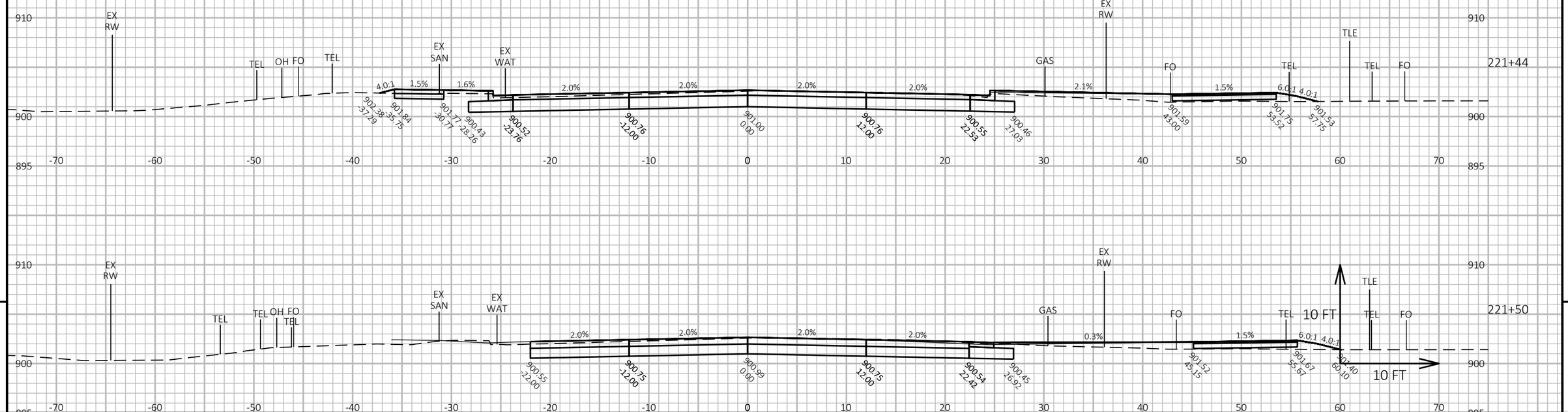
PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49





9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 471	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 548

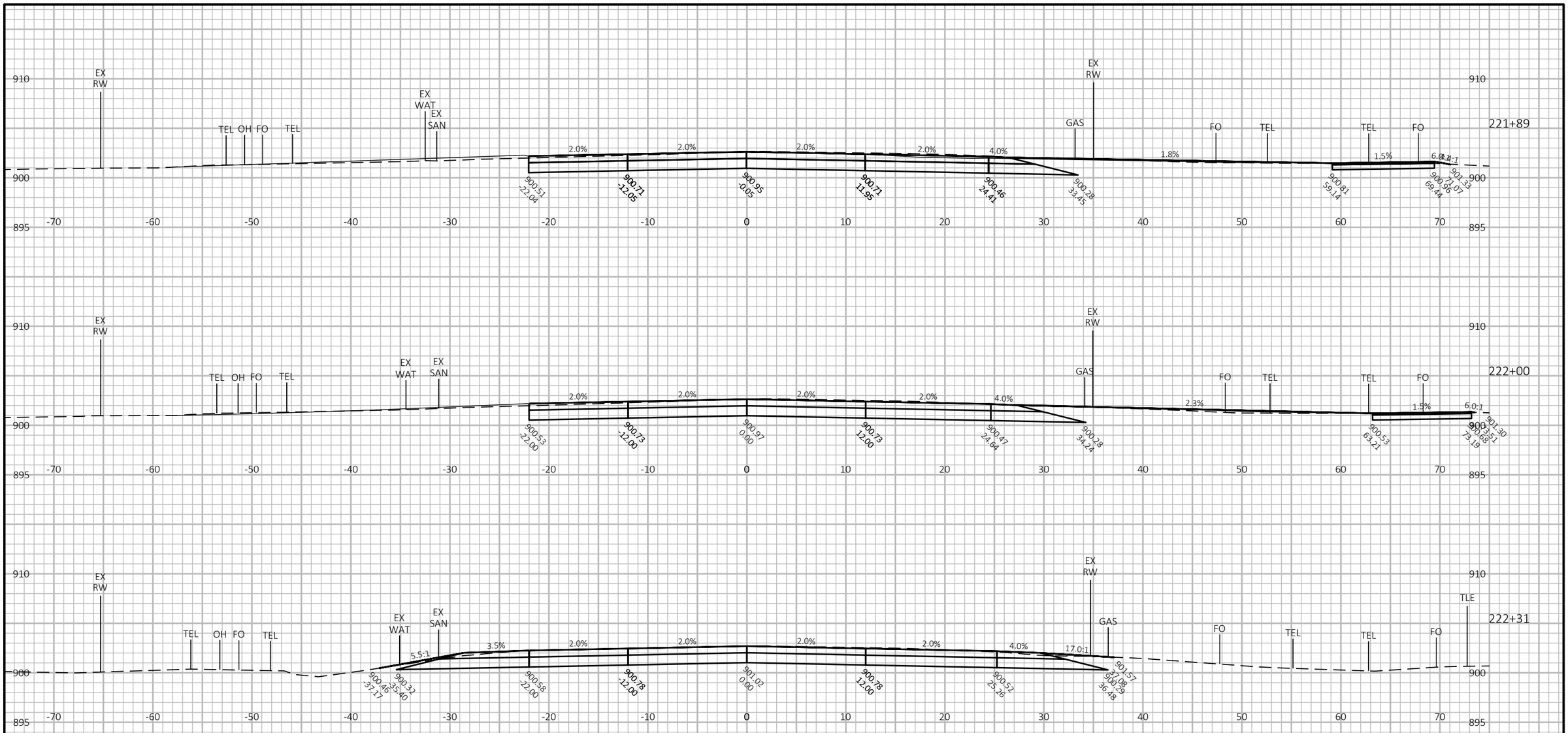
PLOT DATE : 12/2/2022 6:38 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 472	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 549

PLOT DATE : 12/2/2022 6:39 AM

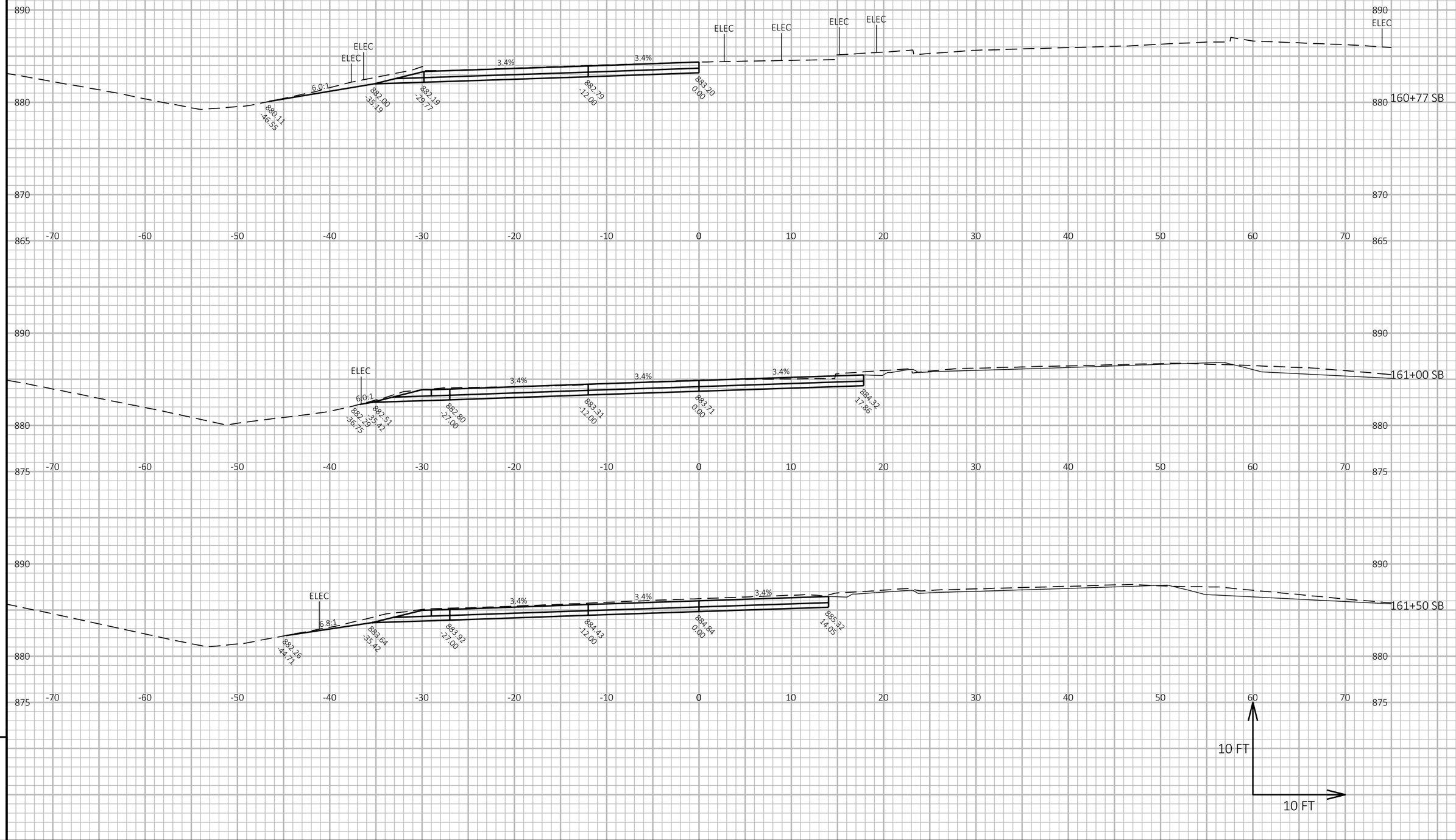
PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.

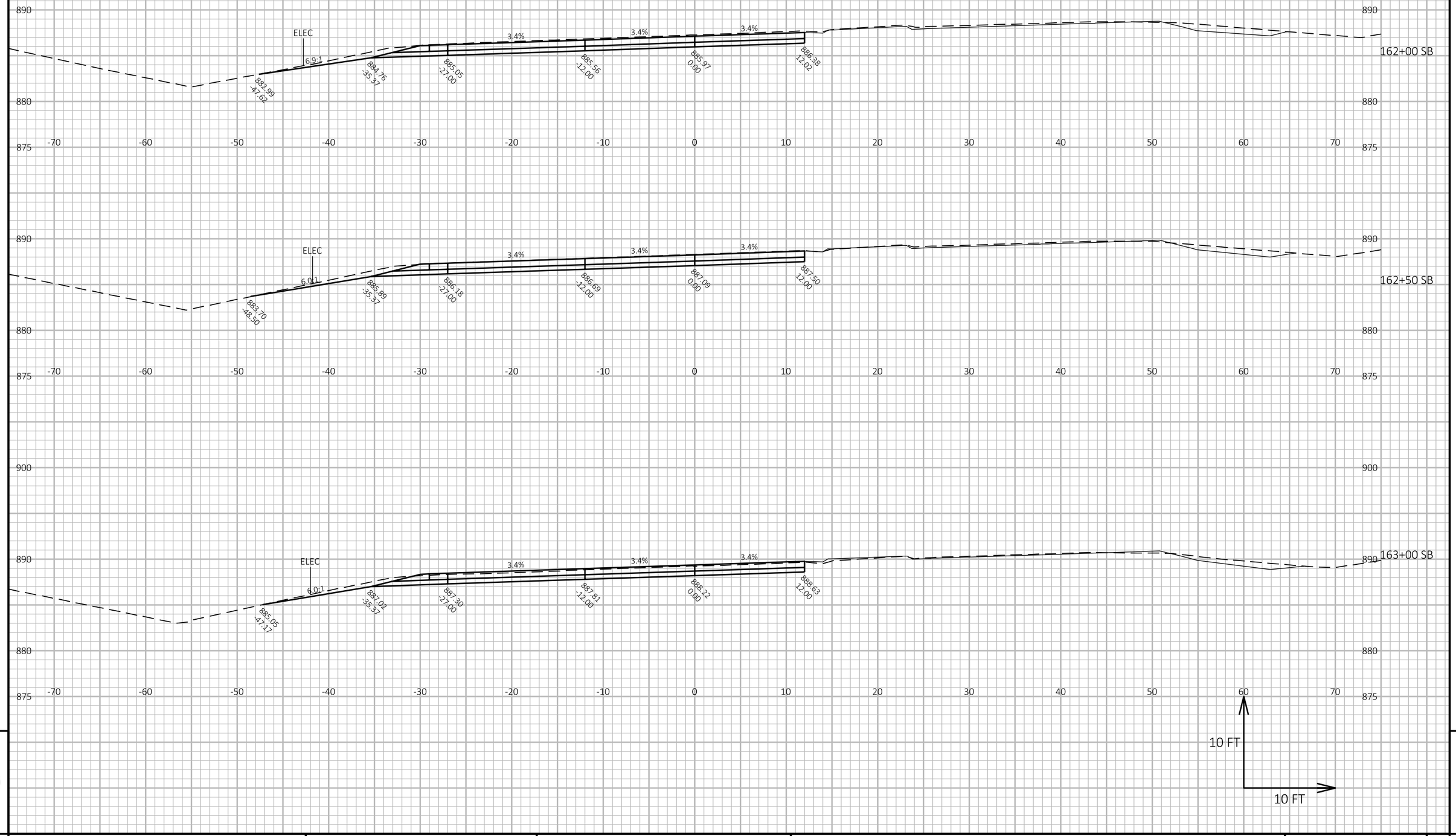


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 SB	SHEET 473	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 600

PLOT DATE : 10/26/2022 1:08 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

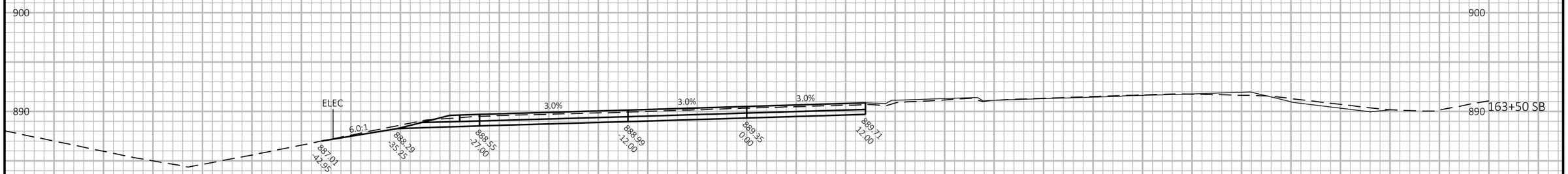
9

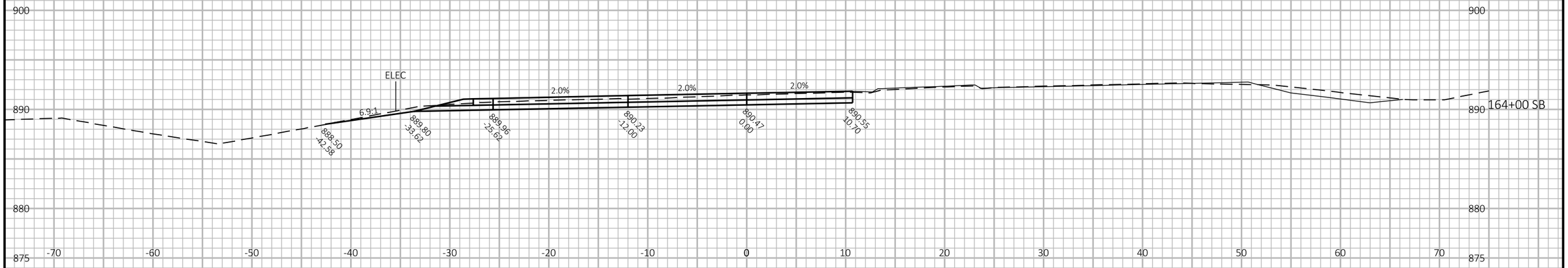
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 SB	SHEET 474	E

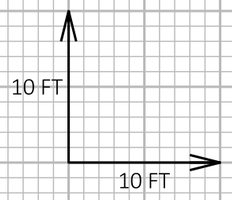
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 601

PLOT DATE : 10/26/2022 1:08 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.







9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 SB	SHEET 475	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 602

PLOT DATE : 10/26/2022 1:08 PM

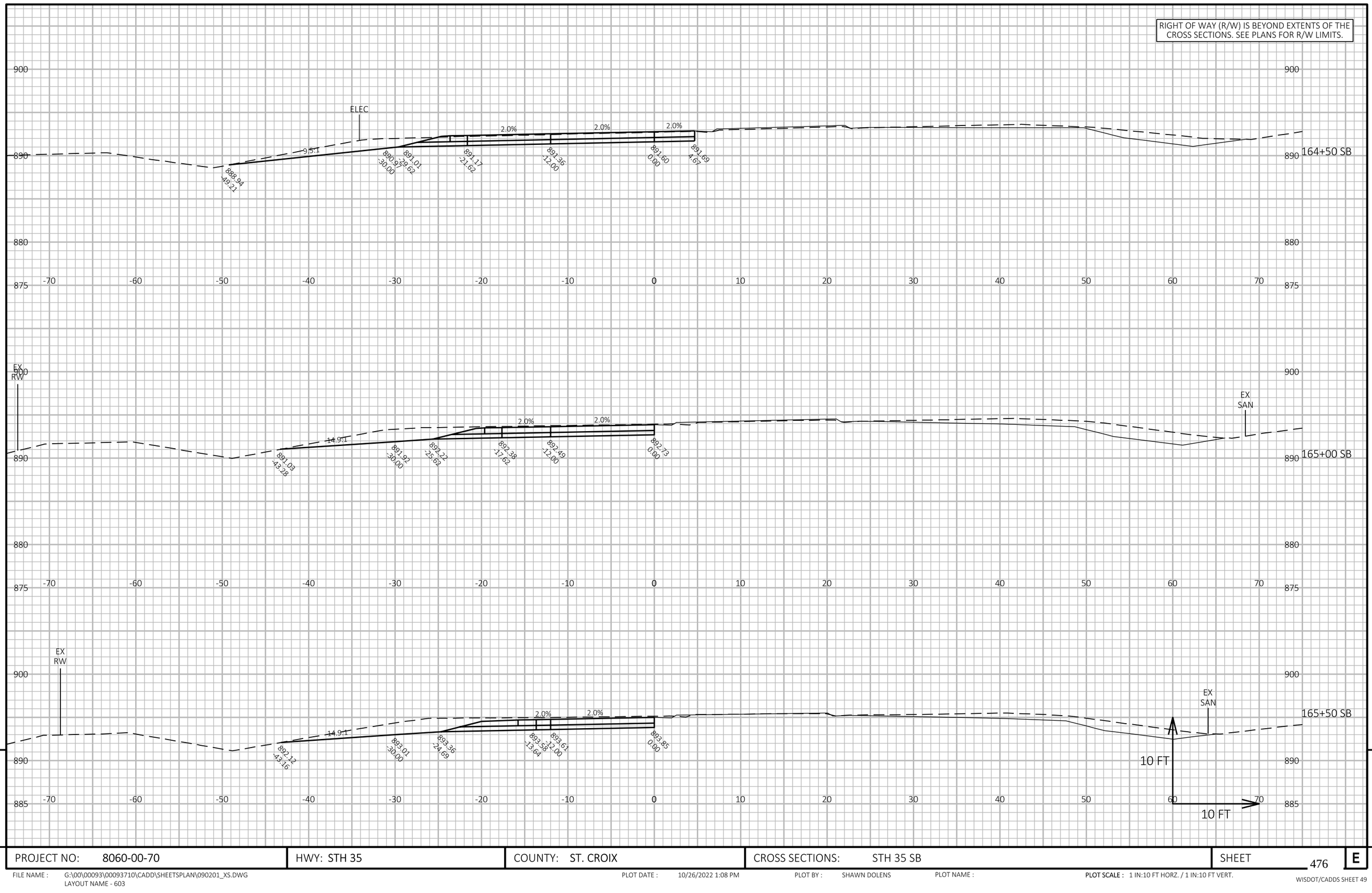
PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



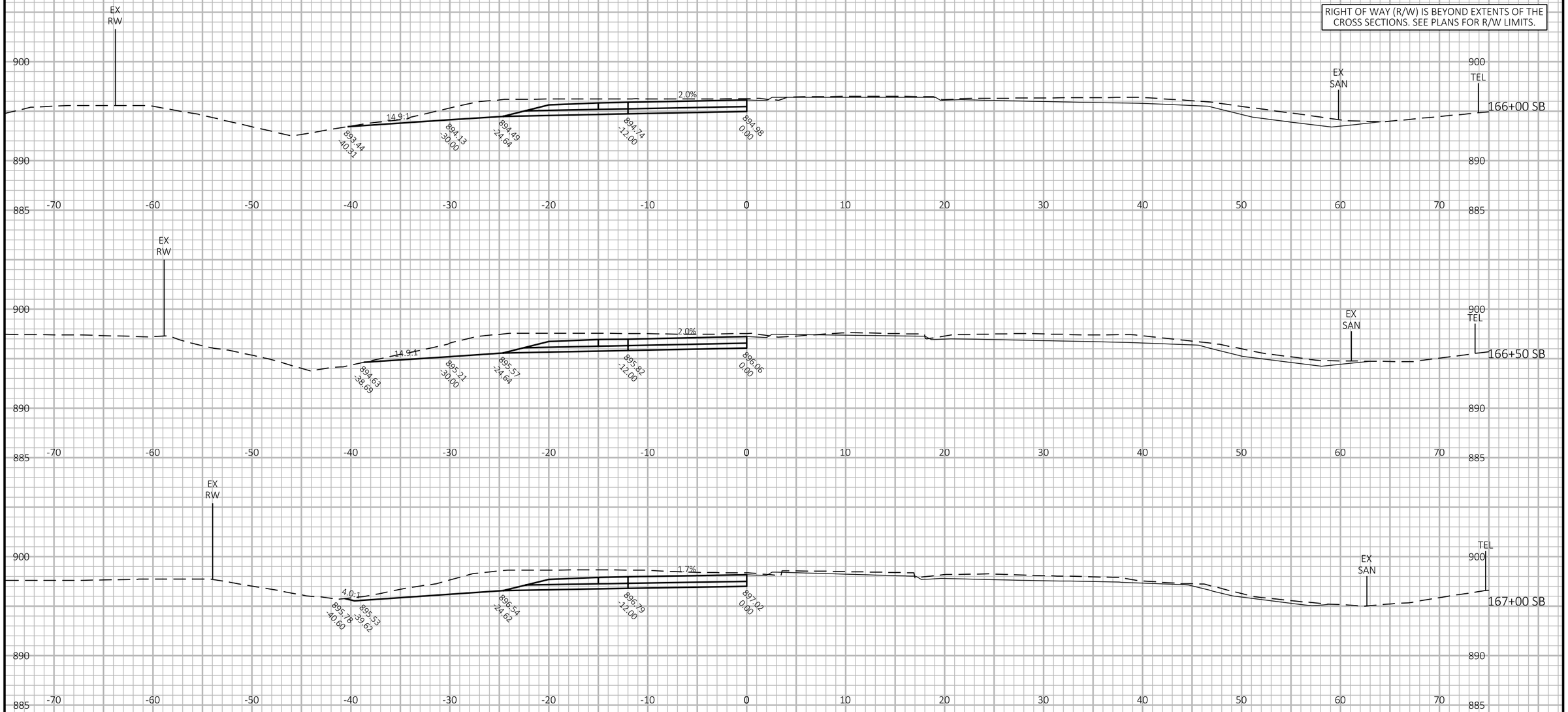
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 SB	SHEET 476	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 603

PLOT DATE : 10/26/2022 1:08 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

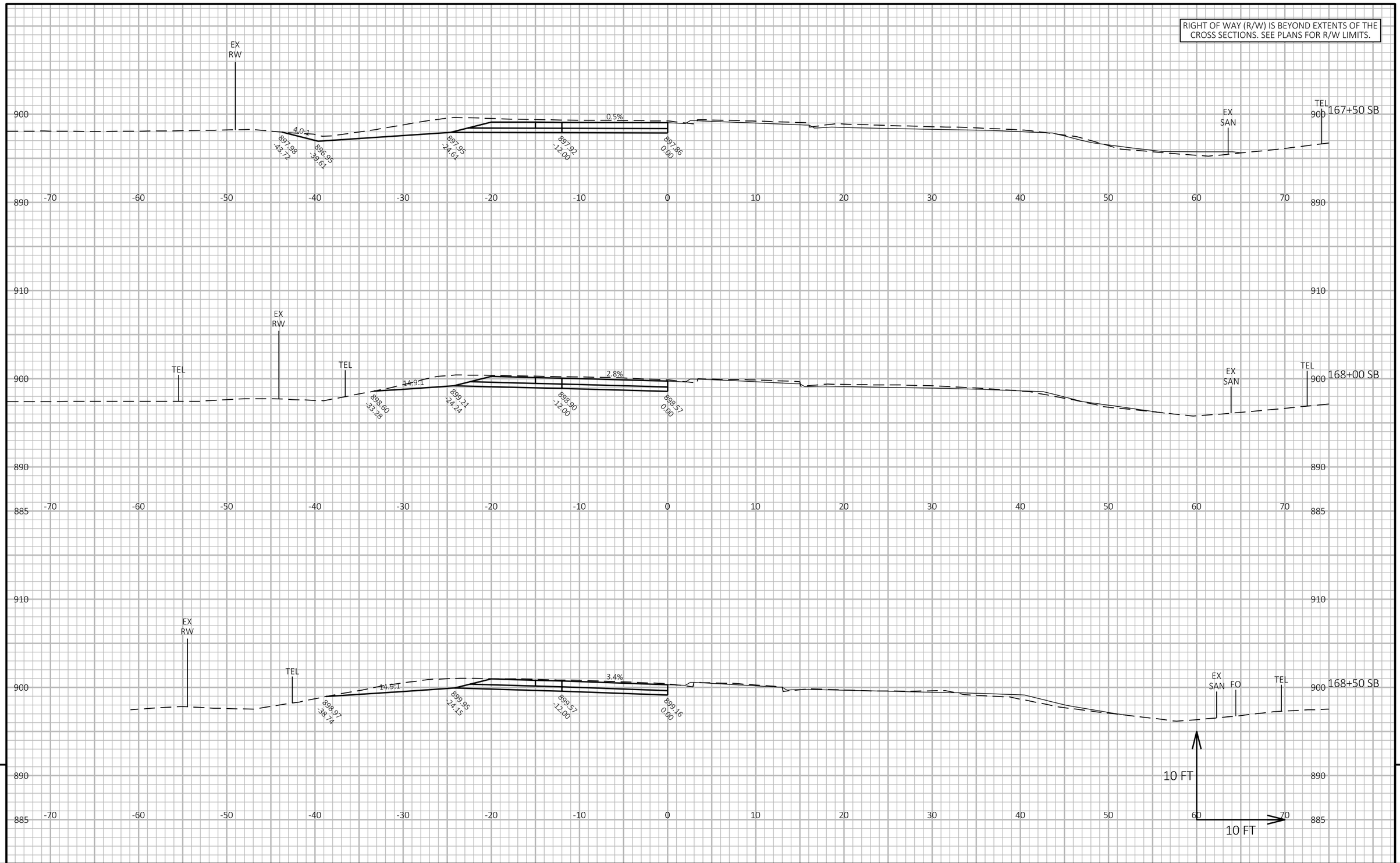
WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 SB	SHEET 477	E

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



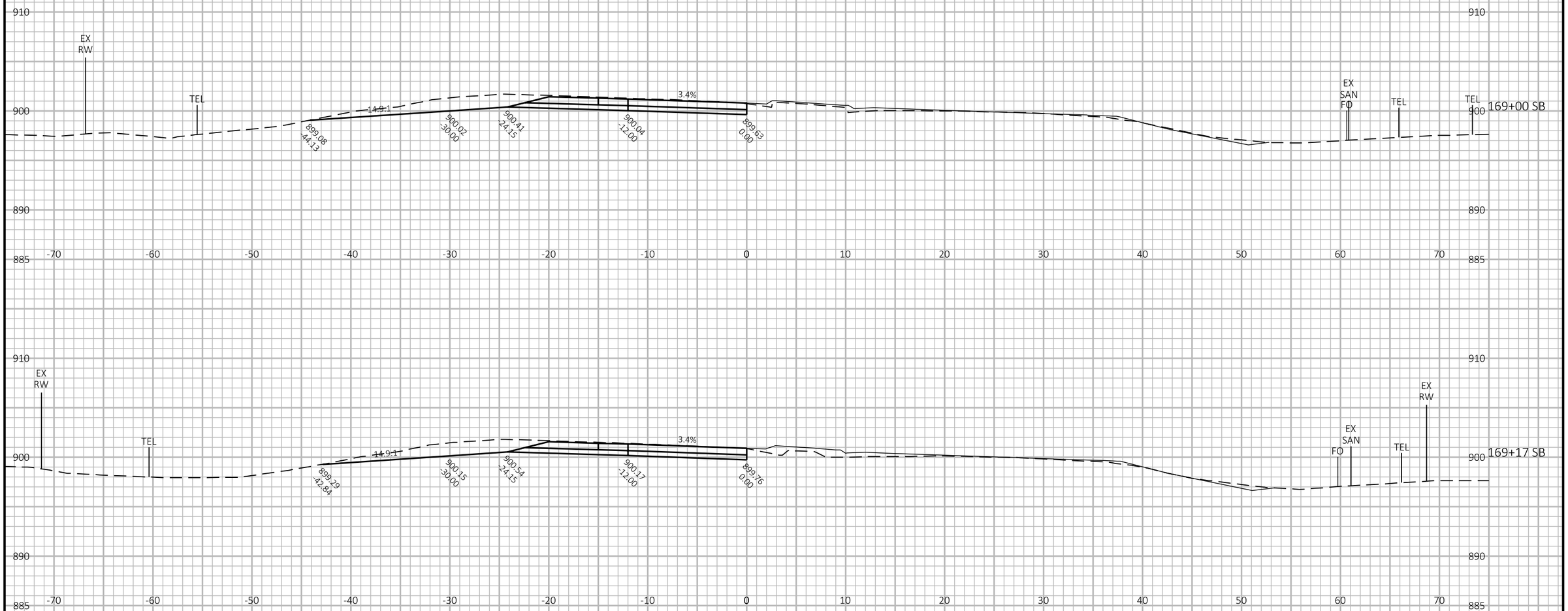
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 SB	SHEET 478	E

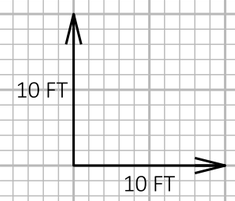
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 605

PLOT DATE : 10/26/2022 1:09 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.





9

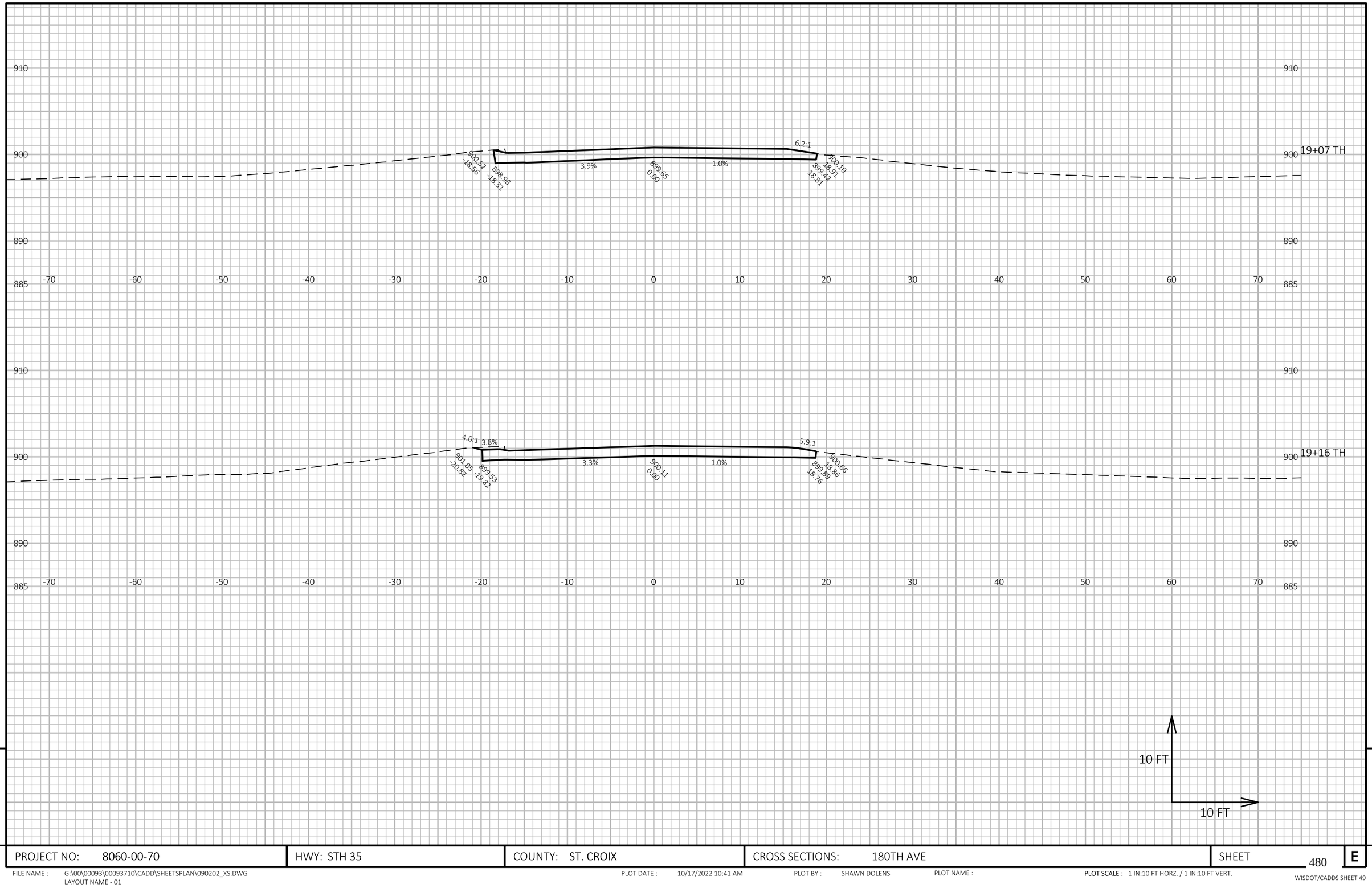
9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 SB	SHEET 479	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 606

PLOT DATE : 10/26/2022 1:09 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: 180TH AVE	SHEET 480	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 01

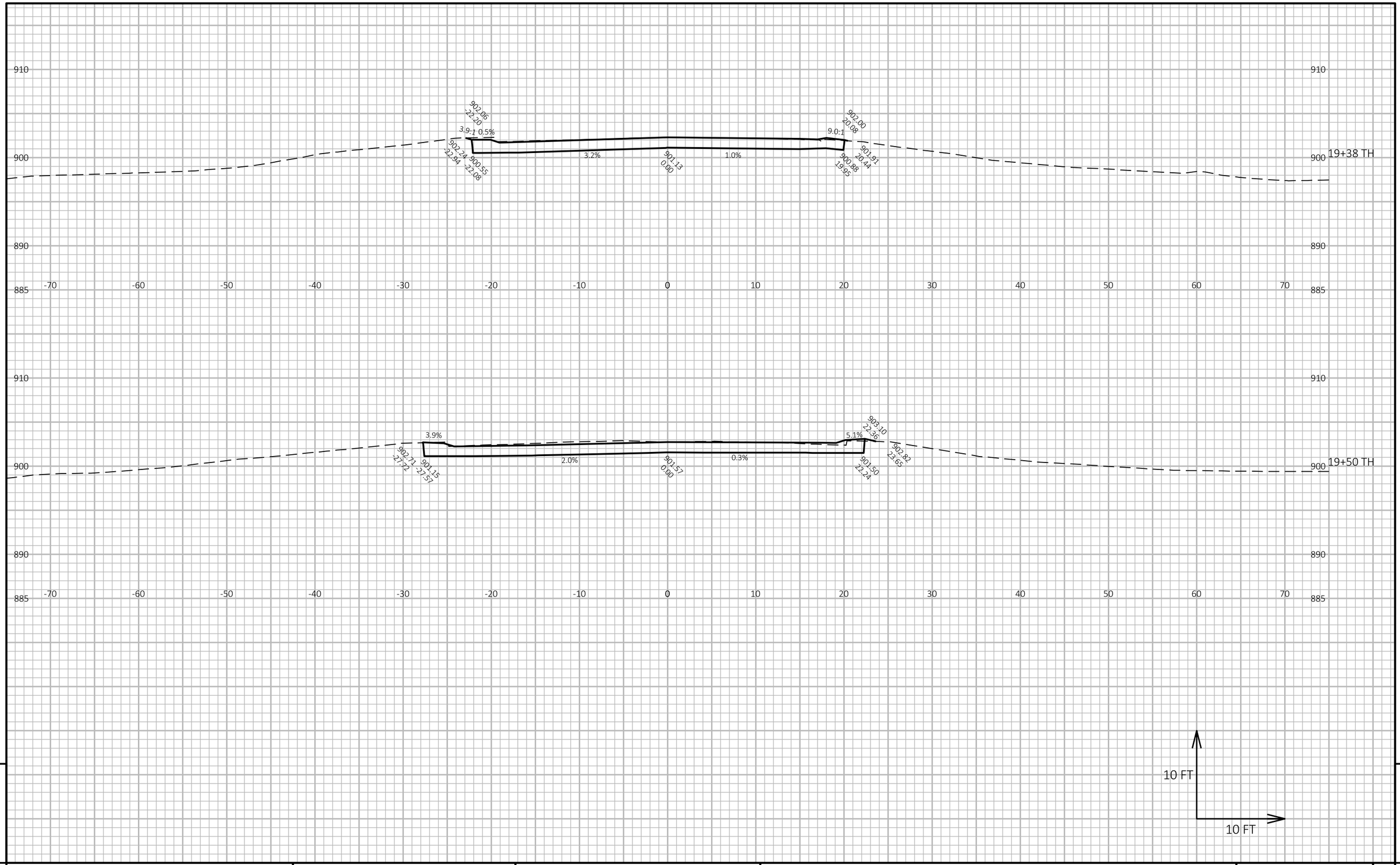
PLOT DATE : 10/17/2022 10:41 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



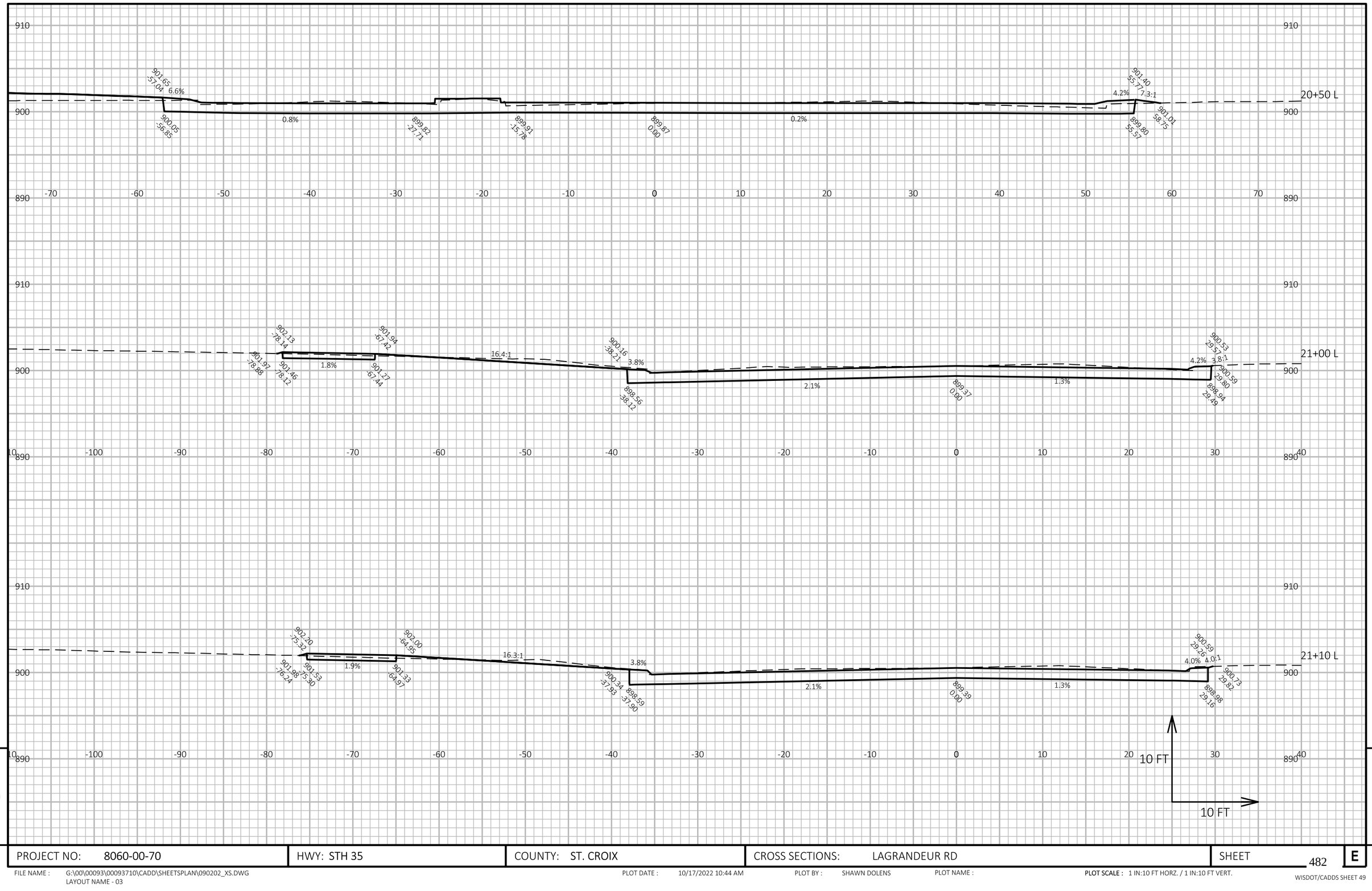
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: 180TH AVE	SHEET 481	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 02

PLOT DATE : 10/17/2022 10:41 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: LAGRANDEUR RD	SHEET 482	E

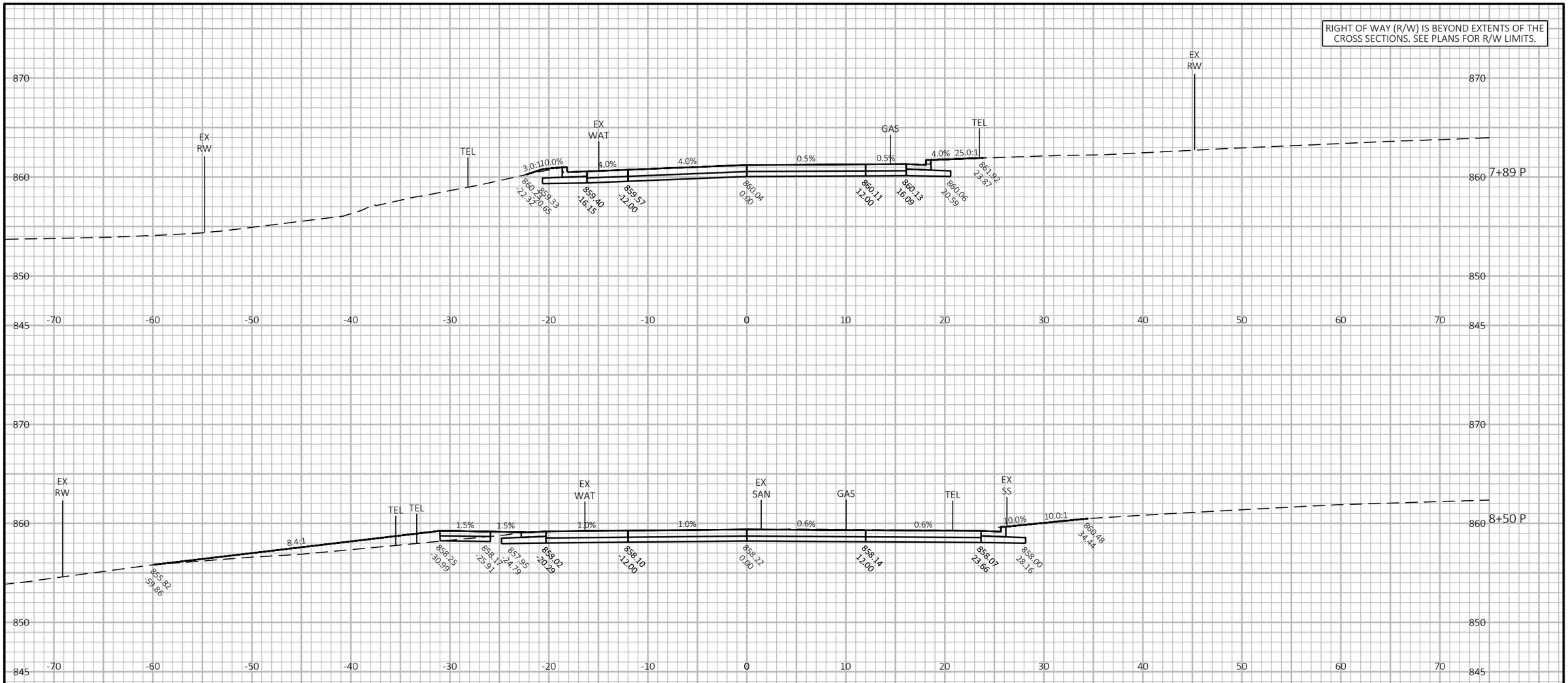
FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 03

PLOT DATE : 10/17/2022 10:44 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: PARENT ST	SHEET 483	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 800

PLOT DATE : 12/2/2022 6:45 AM

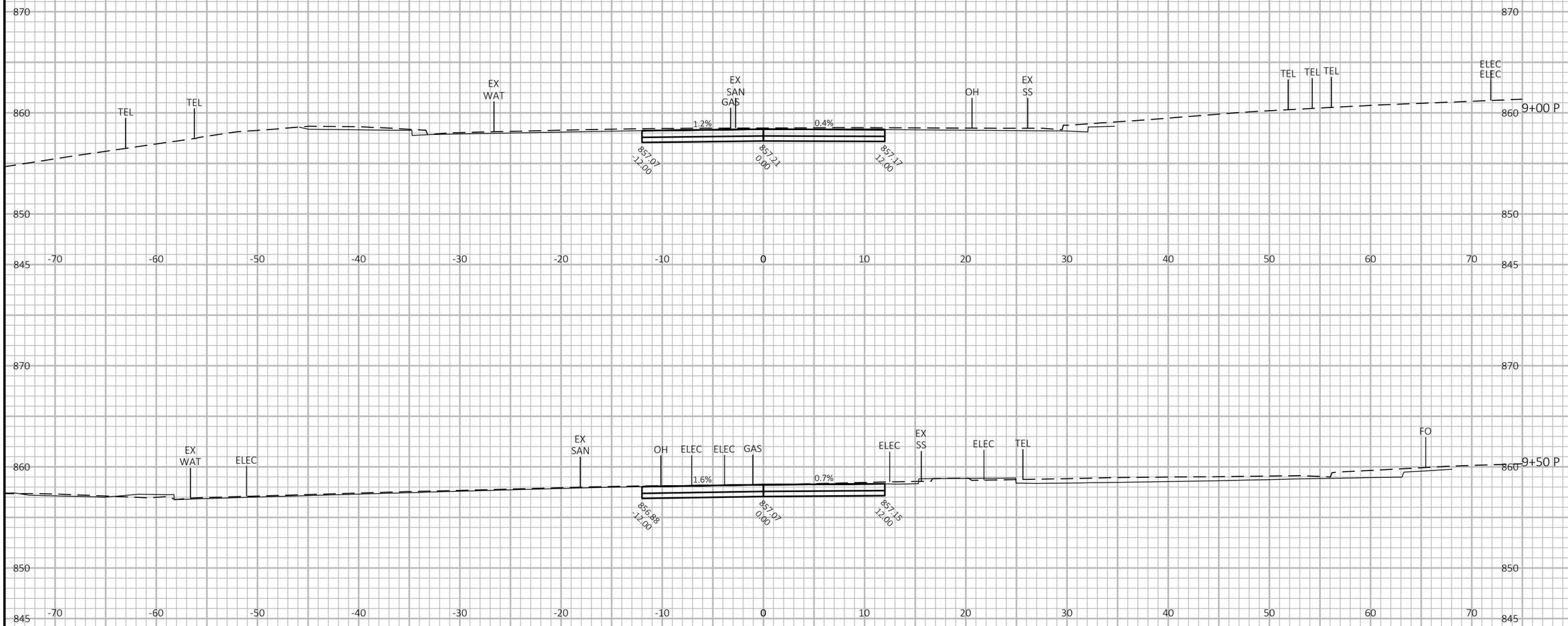
PLOT BY : SHAWN DOLENS

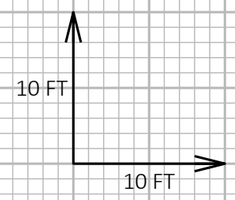
PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.





9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: PARENT ST	SHEET 484	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 801

PLOT DATE : 12/2/2022 6:45 AM

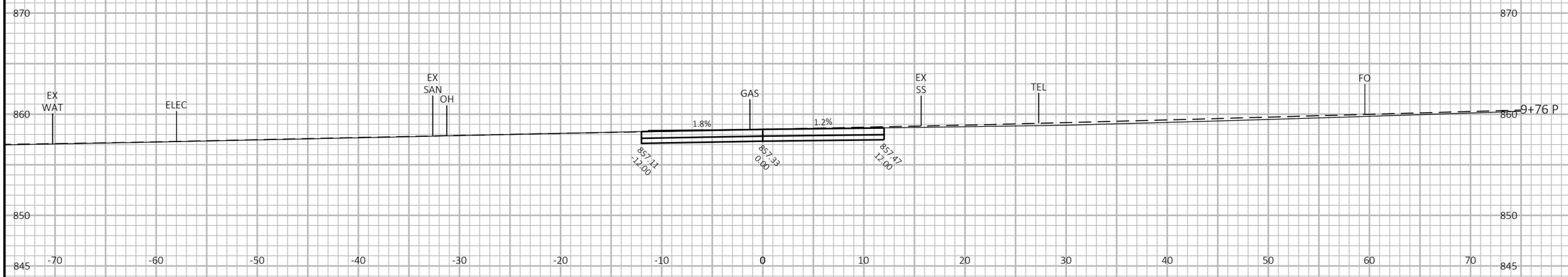
PLOT BY : SHAWN DOLENS

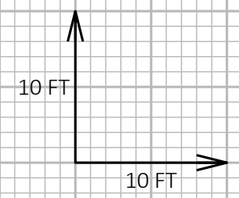
PLOT NAME :

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

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.





9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: PARENT ST	SHEET 485	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 802

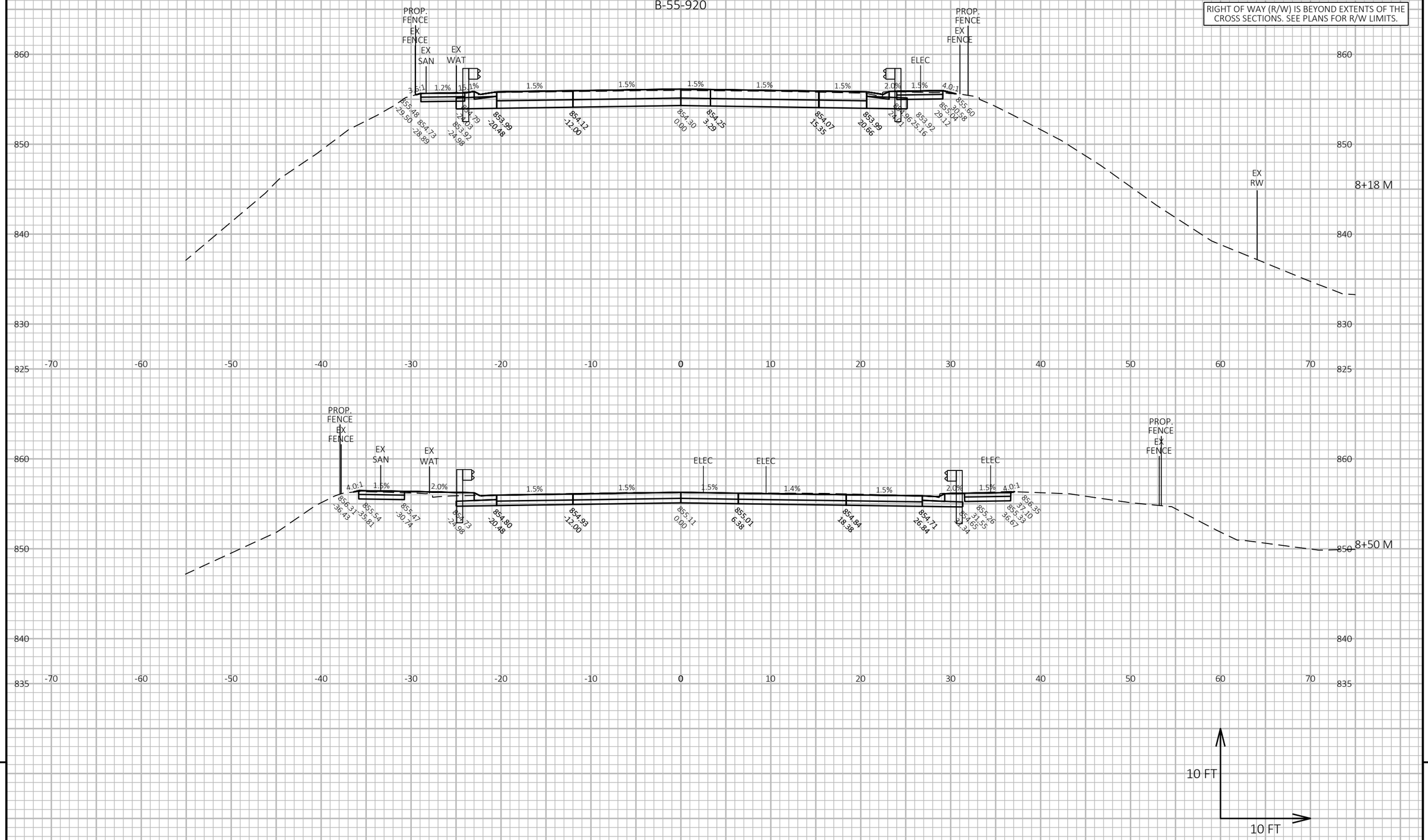
PLOT DATE : 12/2/2022 6:46 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49

B-55-920

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



9

9

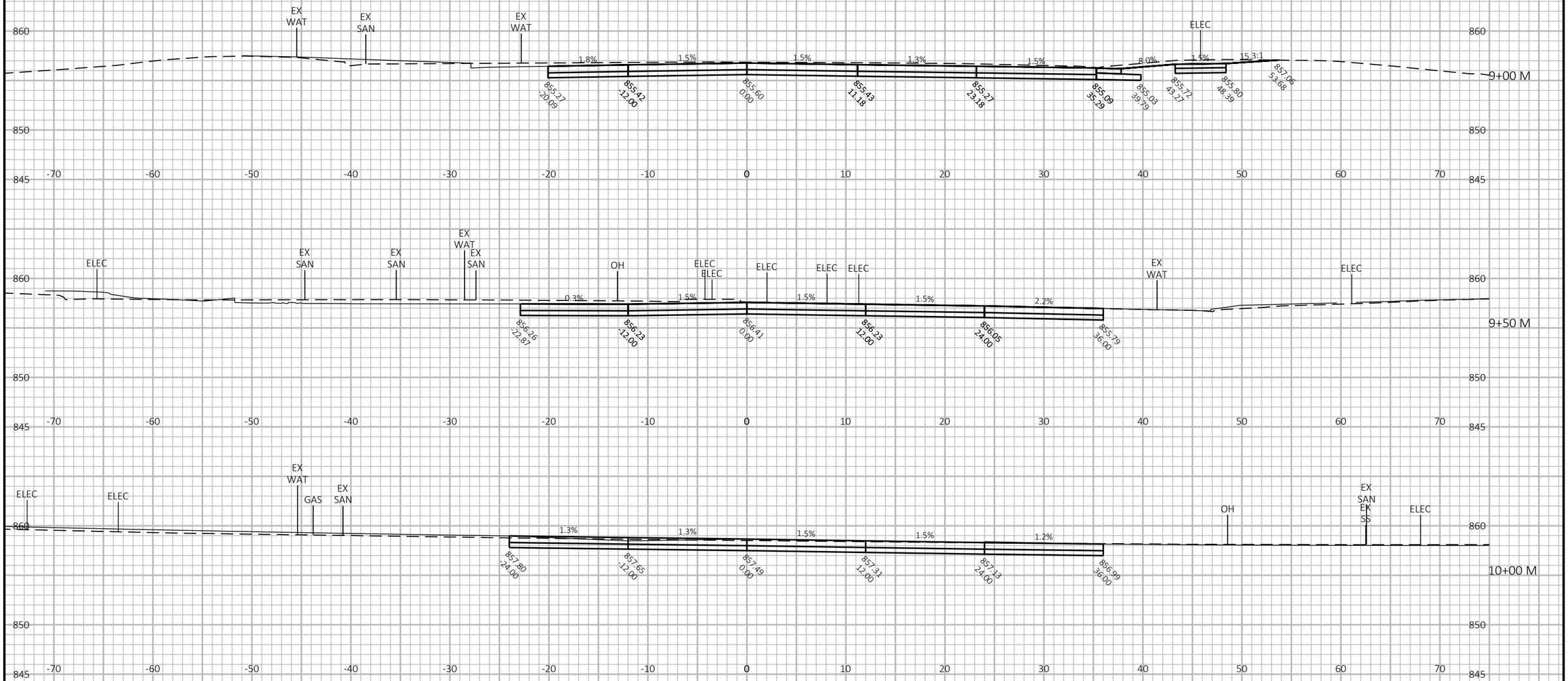
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: MAIN ST	SHEET 486	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 700

PLOT DATE : 12/2/2022 6:46 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS.



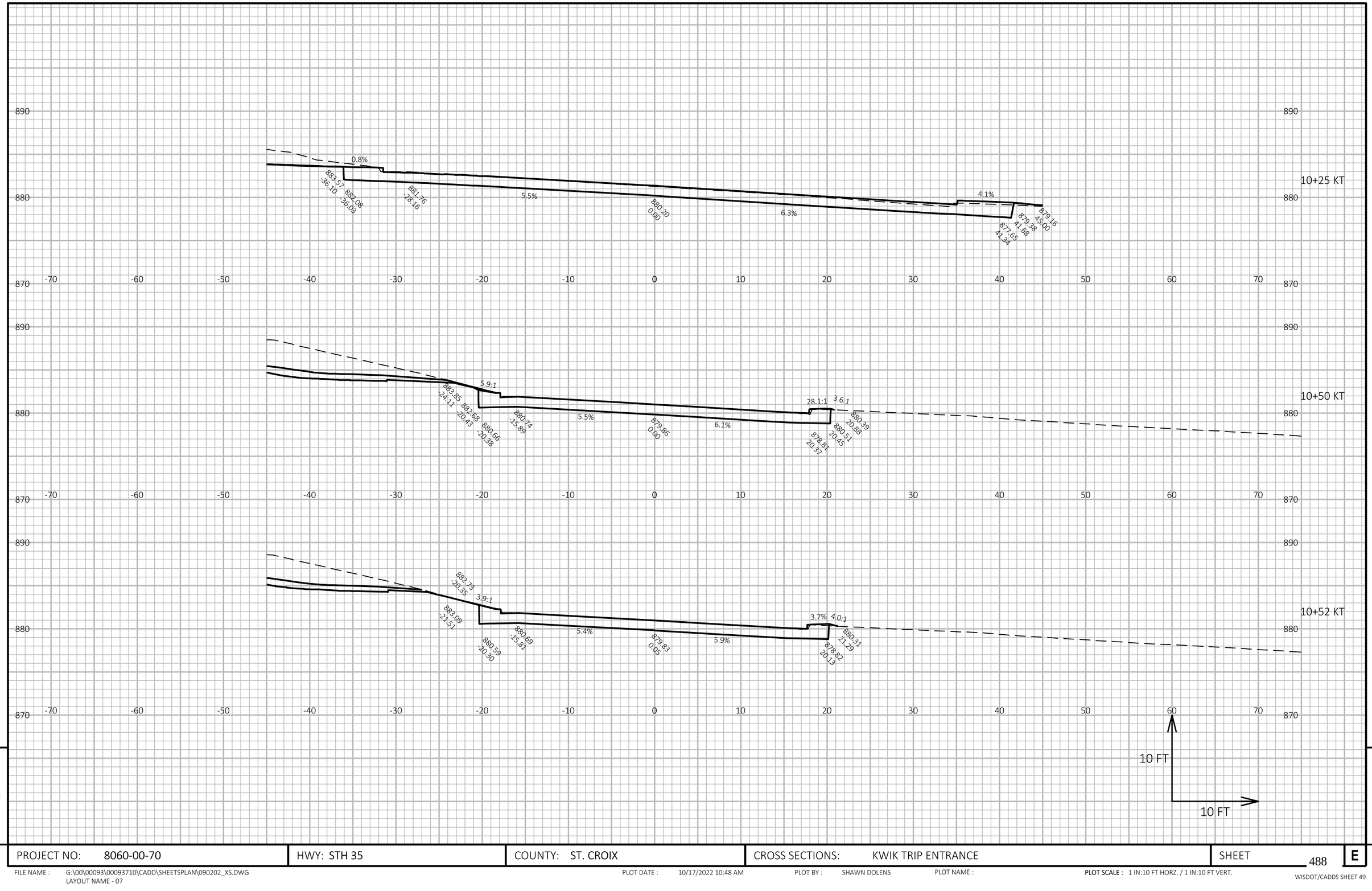
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: MAIN ST	SHEET 487	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 701

PLOT DATE : 12/2/2022 6:46 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49

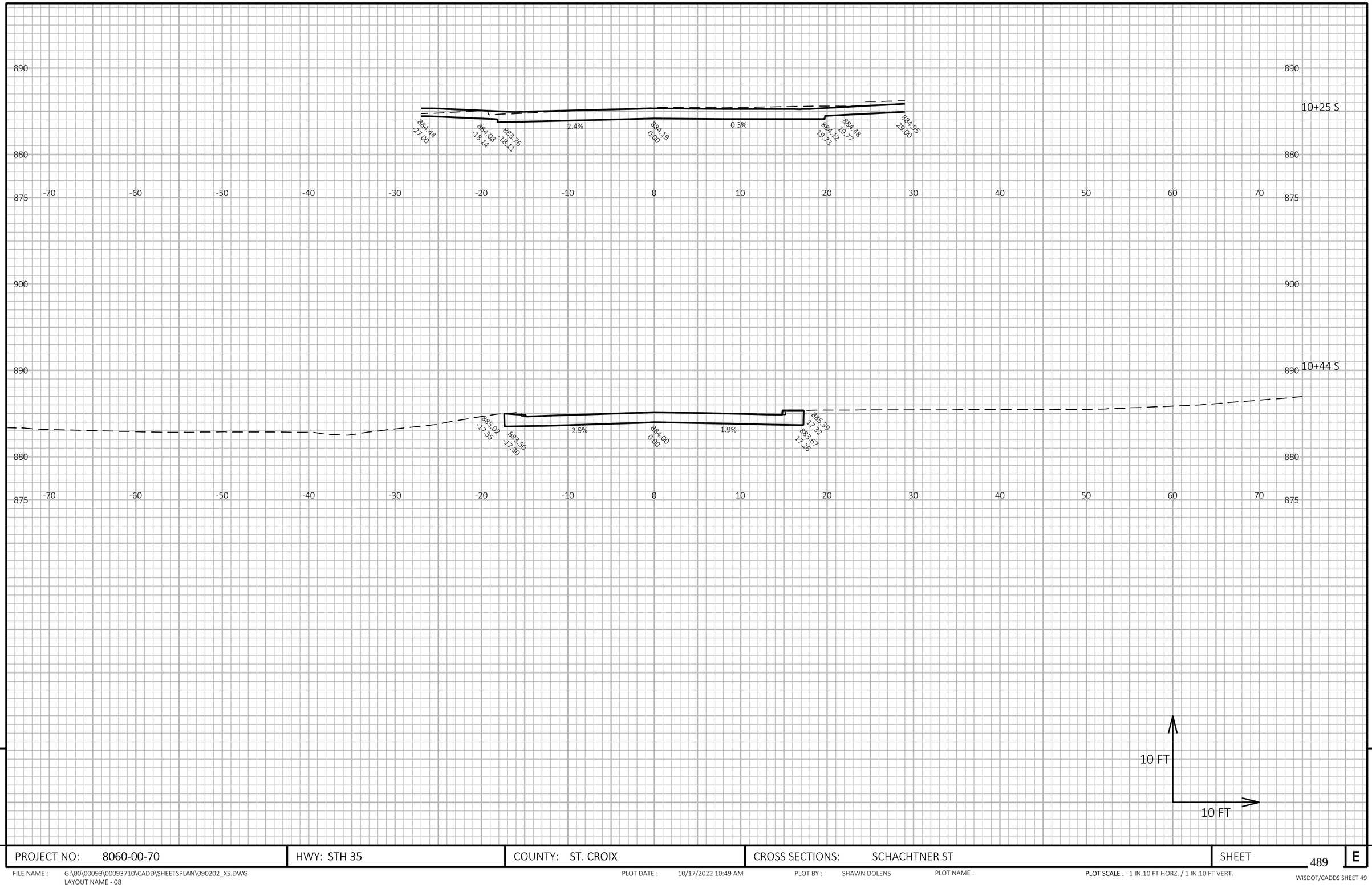


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: KWIK TRIP ENTRANCE	SHEET 488	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 07

PLOT DATE : 10/17/2022 10:48 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

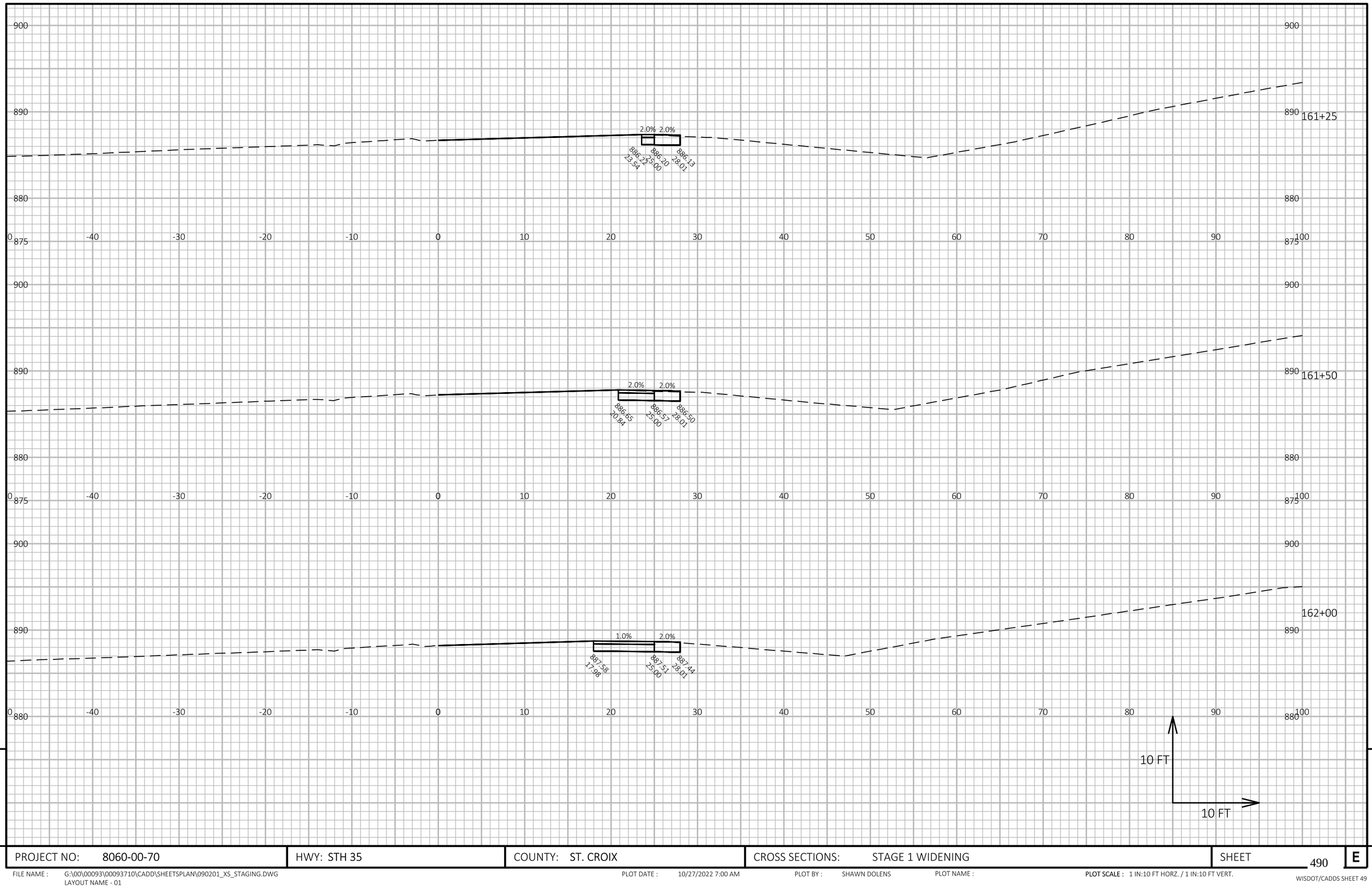
9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: SCHACHTNER ST	SHEET 489	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 08

PLOT DATE : 10/17/2022 10:49 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

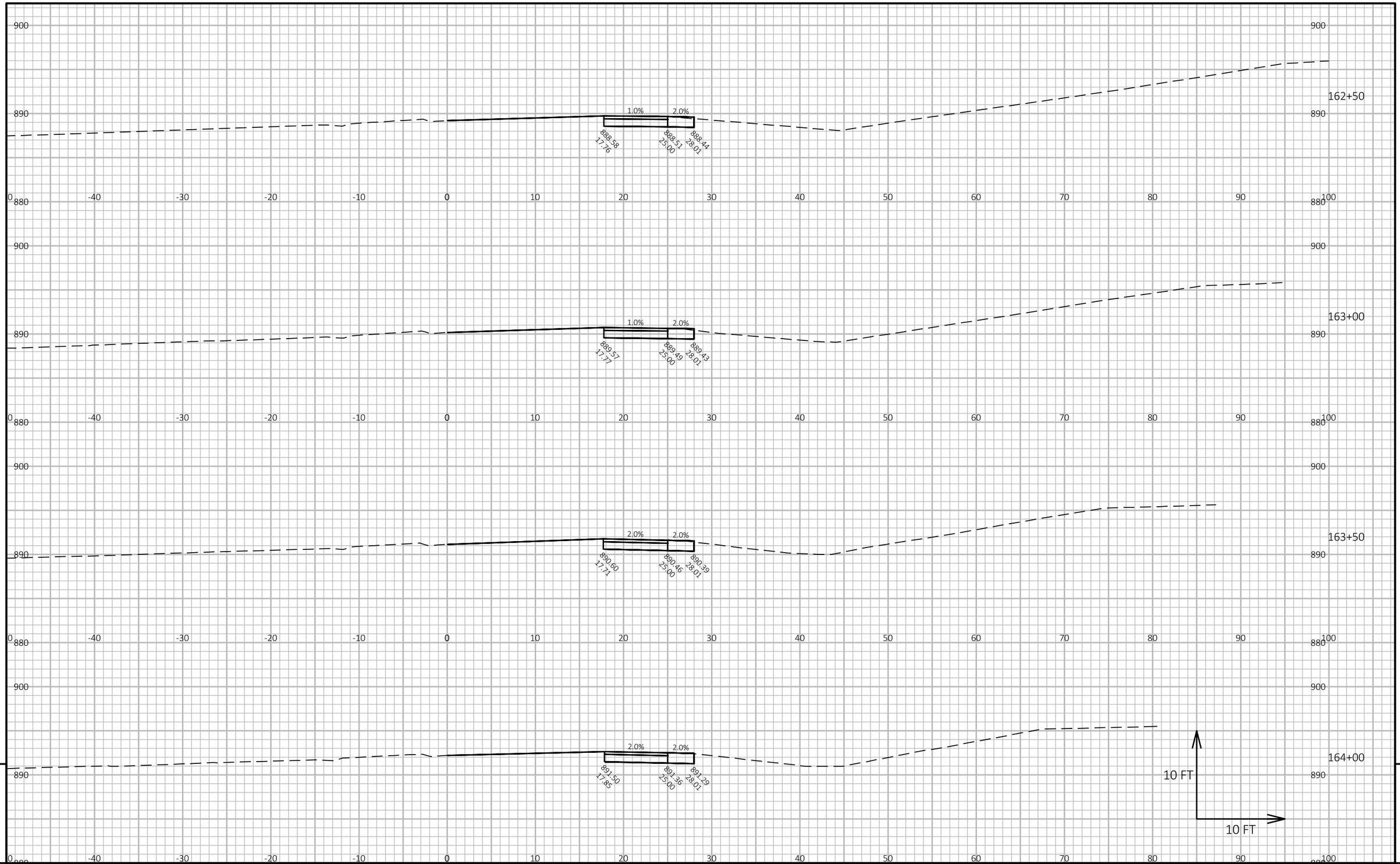
9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 490	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 01

PLOT DATE : 10/27/2022 7:00 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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



9

9

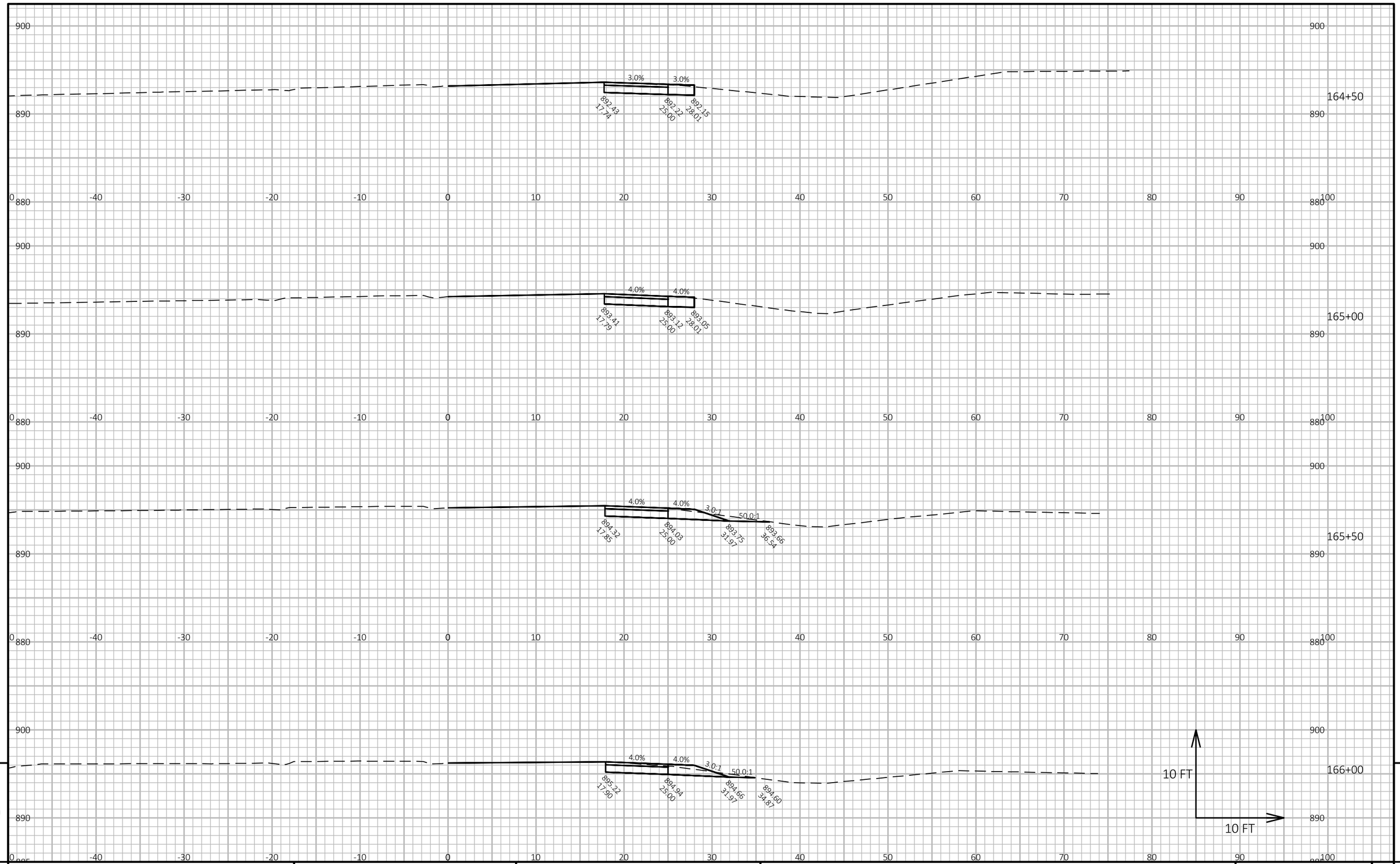
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 491	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 02

PLOT DATE : 10/27/2022 7:00 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

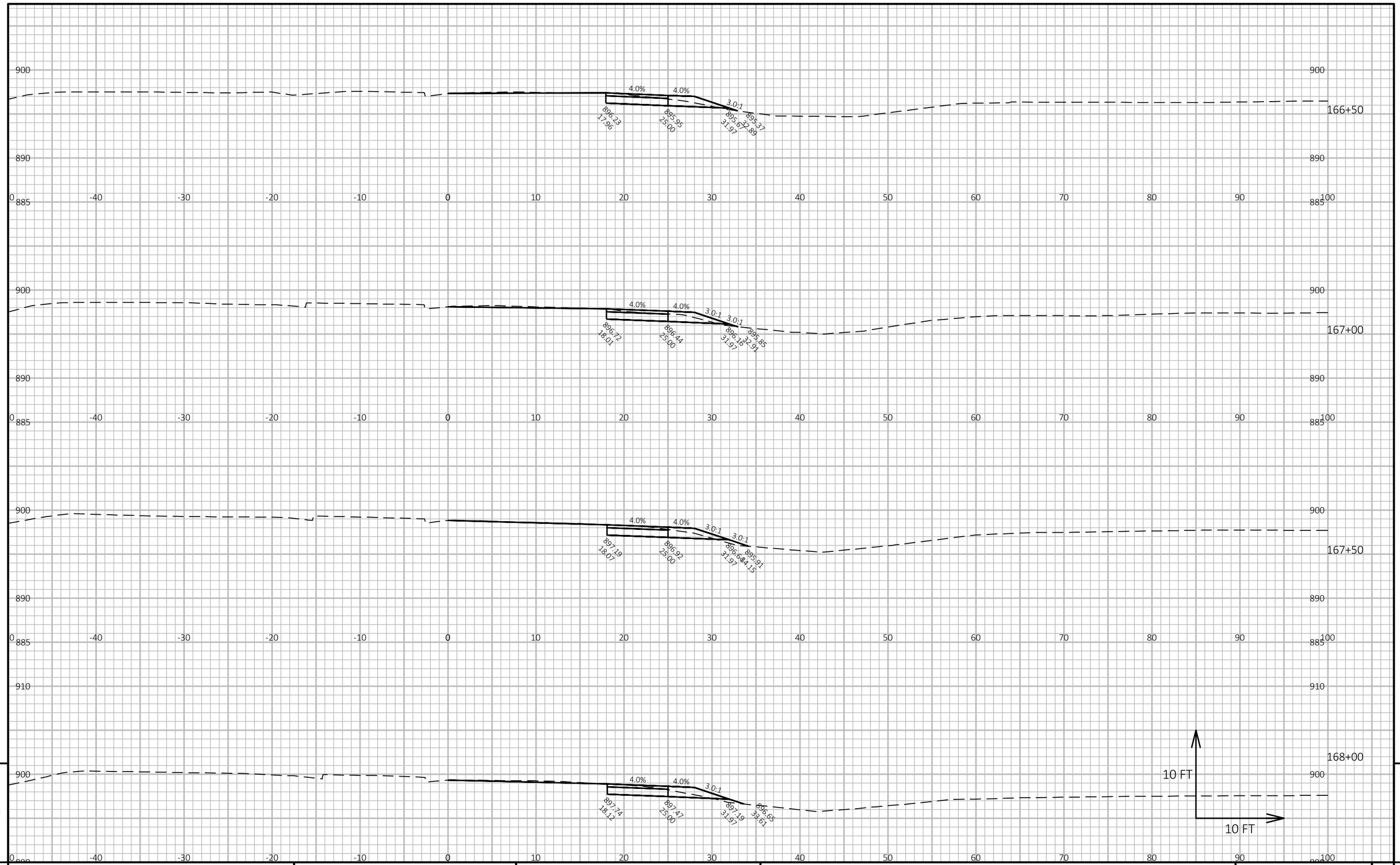
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 492	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 03

PLOT DATE : 10/27/2022 7:00 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 493	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 04

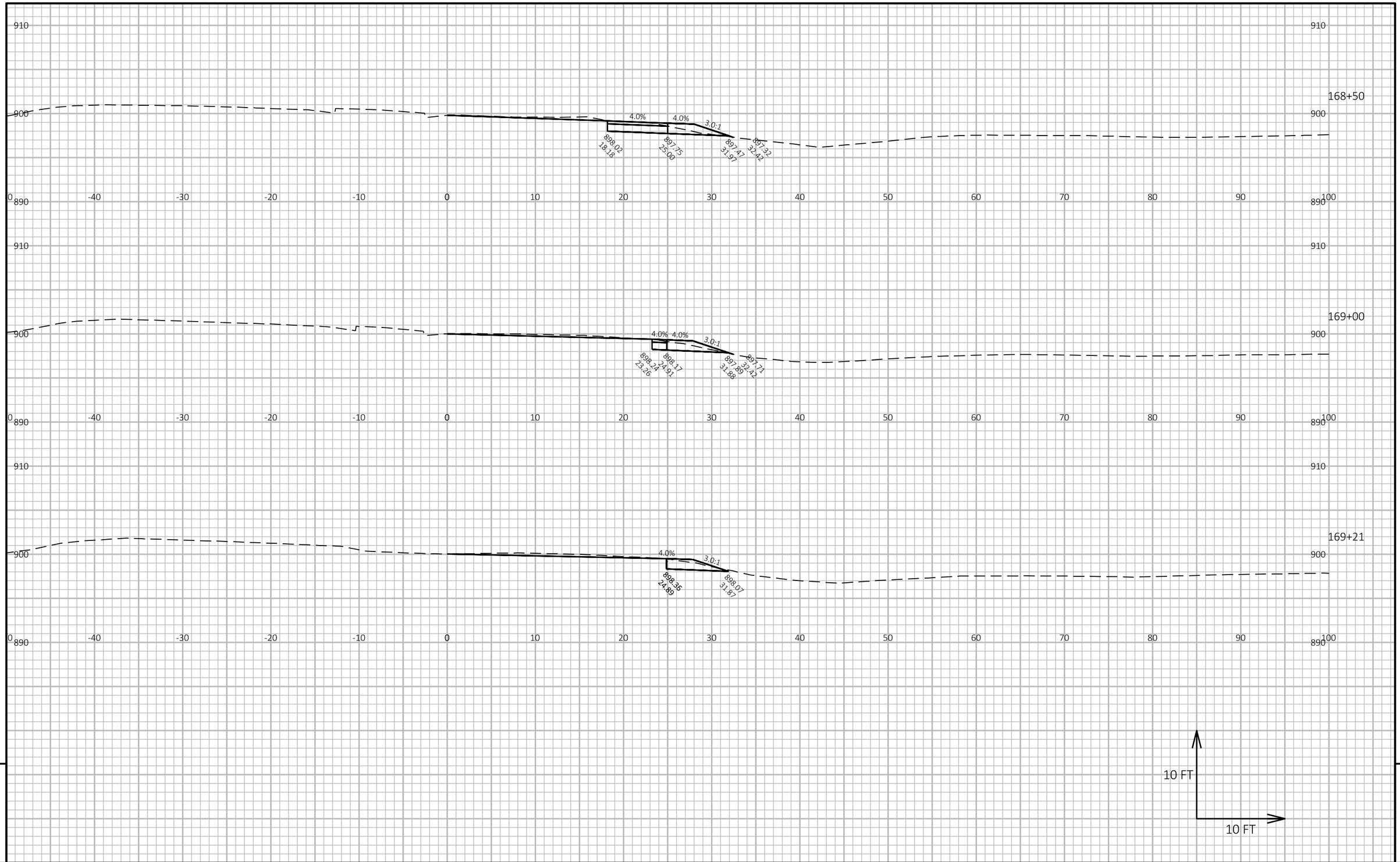
PLOT DATE : 10/27/2022 7:00 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

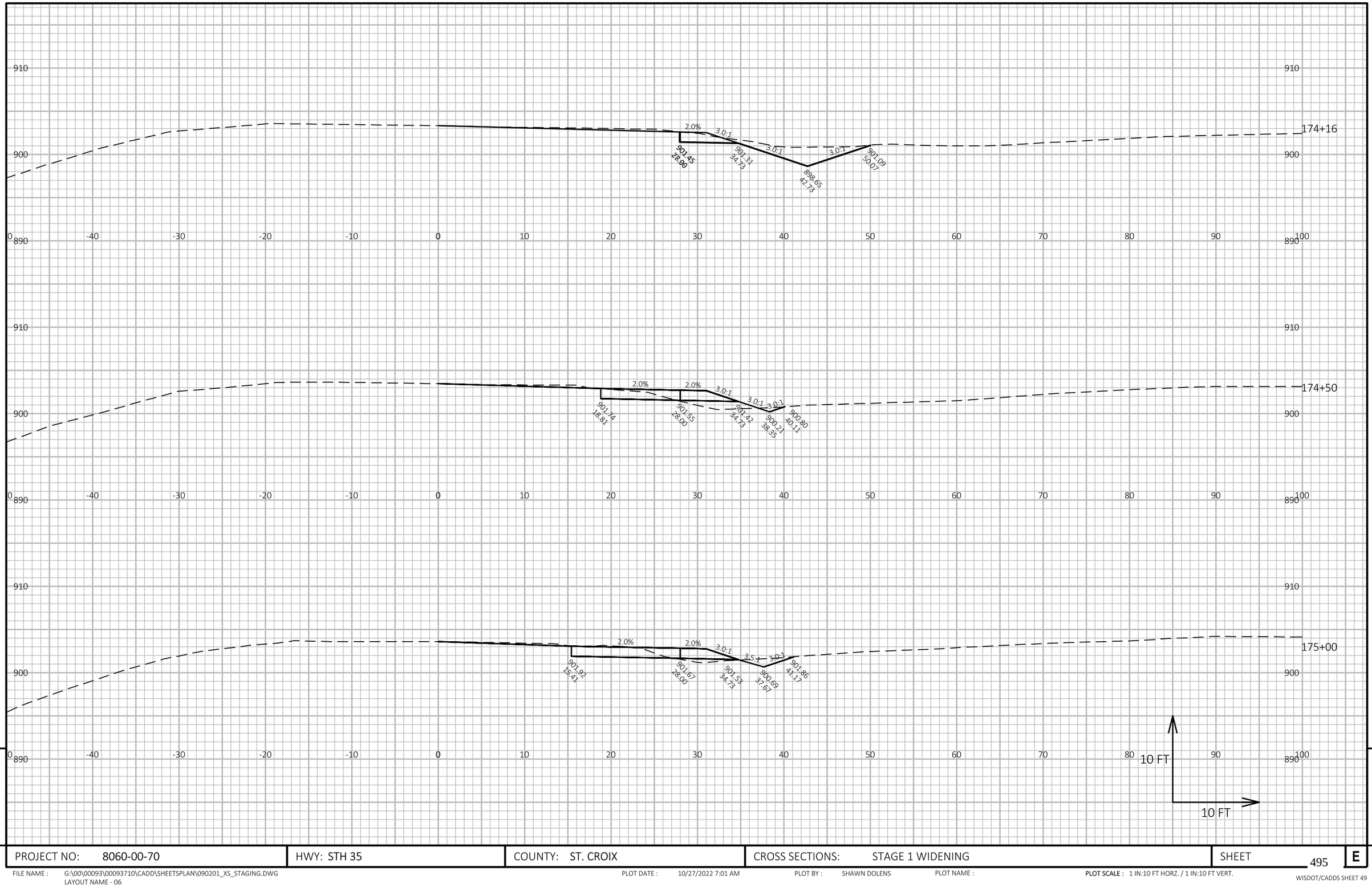
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 494	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 05

PLOT DATE : 10/27/2022 7:00 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

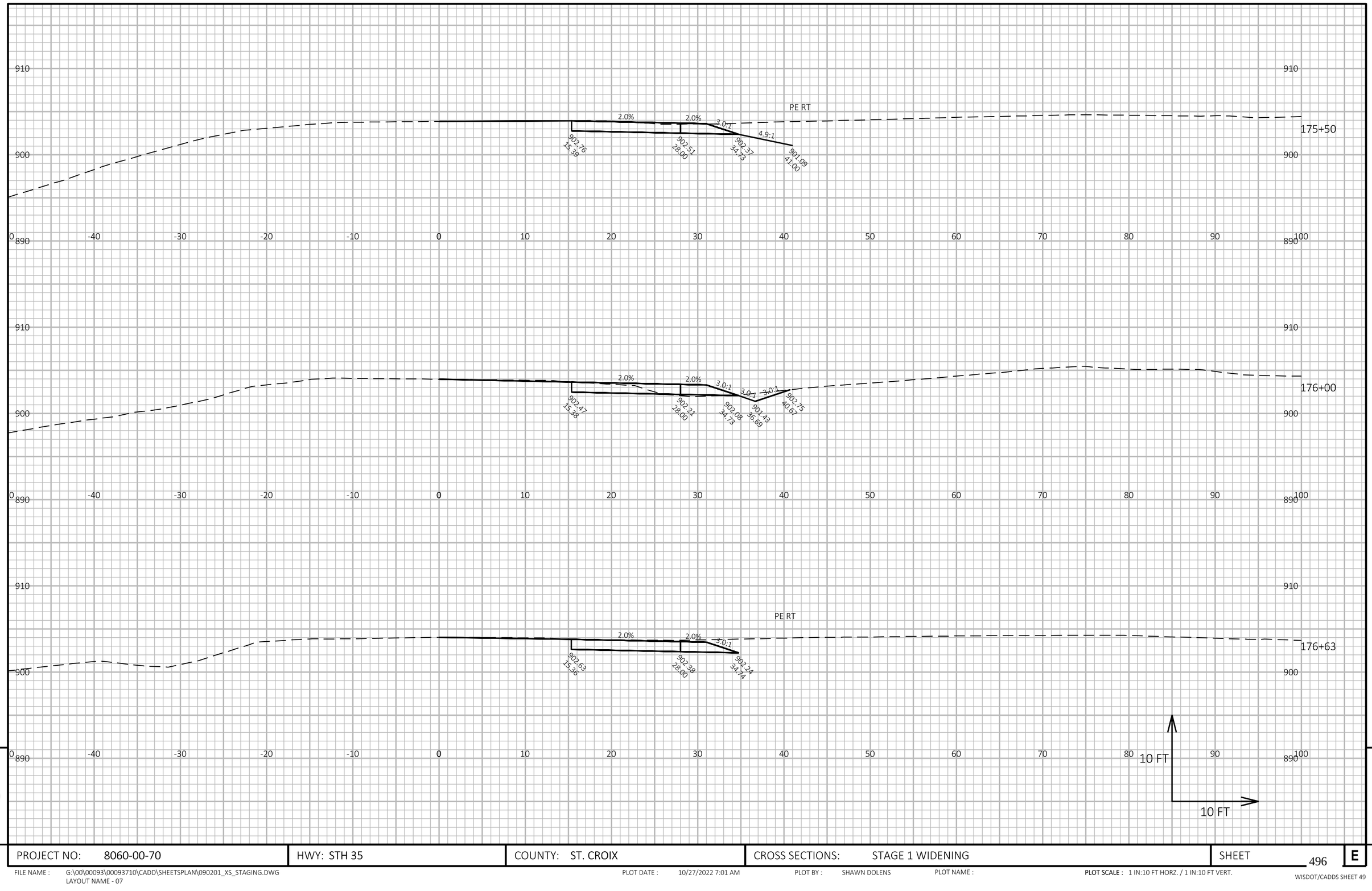
9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 495	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 06

PLOT DATE : 10/27/2022 7:01 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

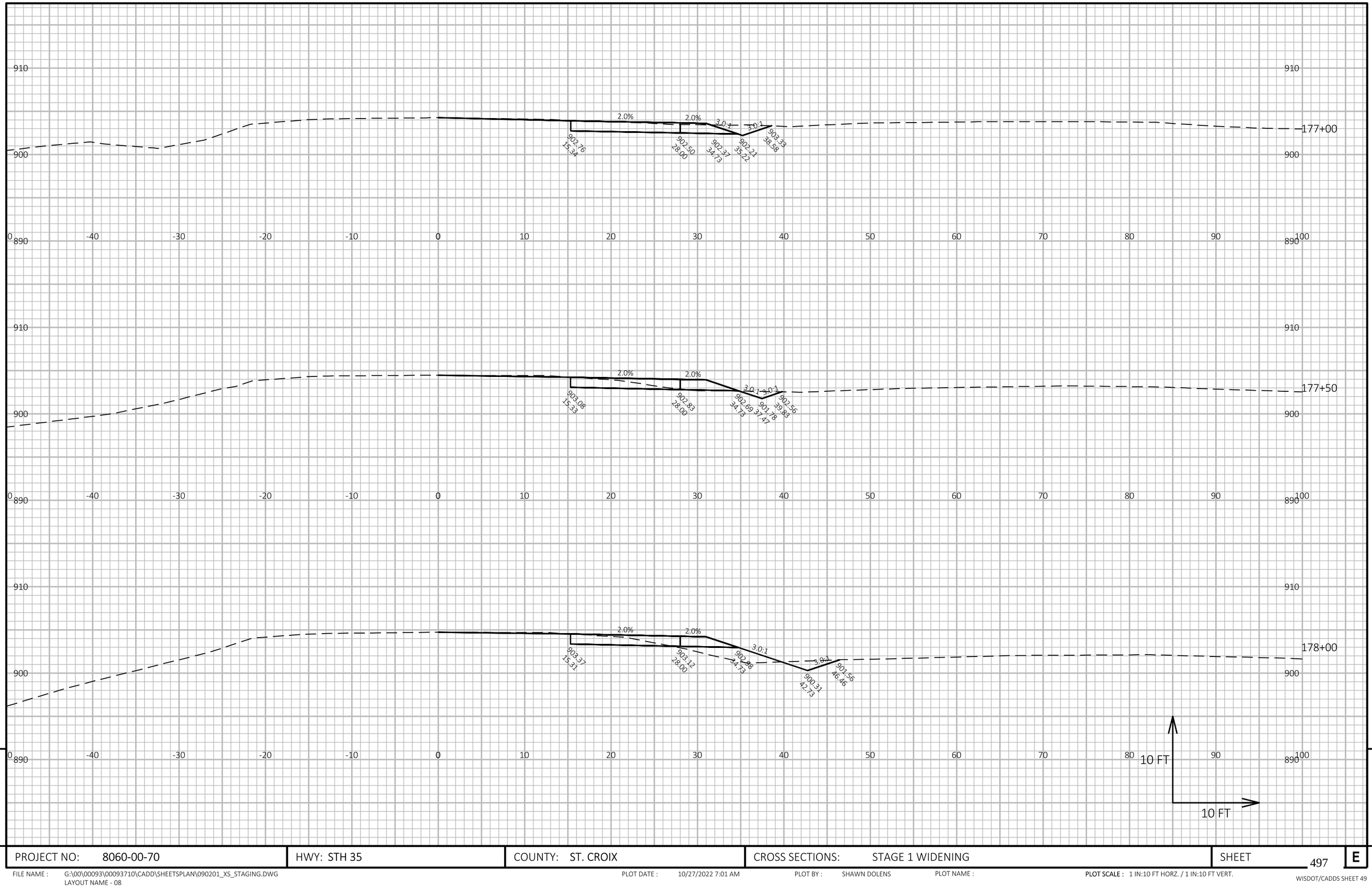
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 496	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 07

PLOT DATE : 10/27/2022 7:01 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

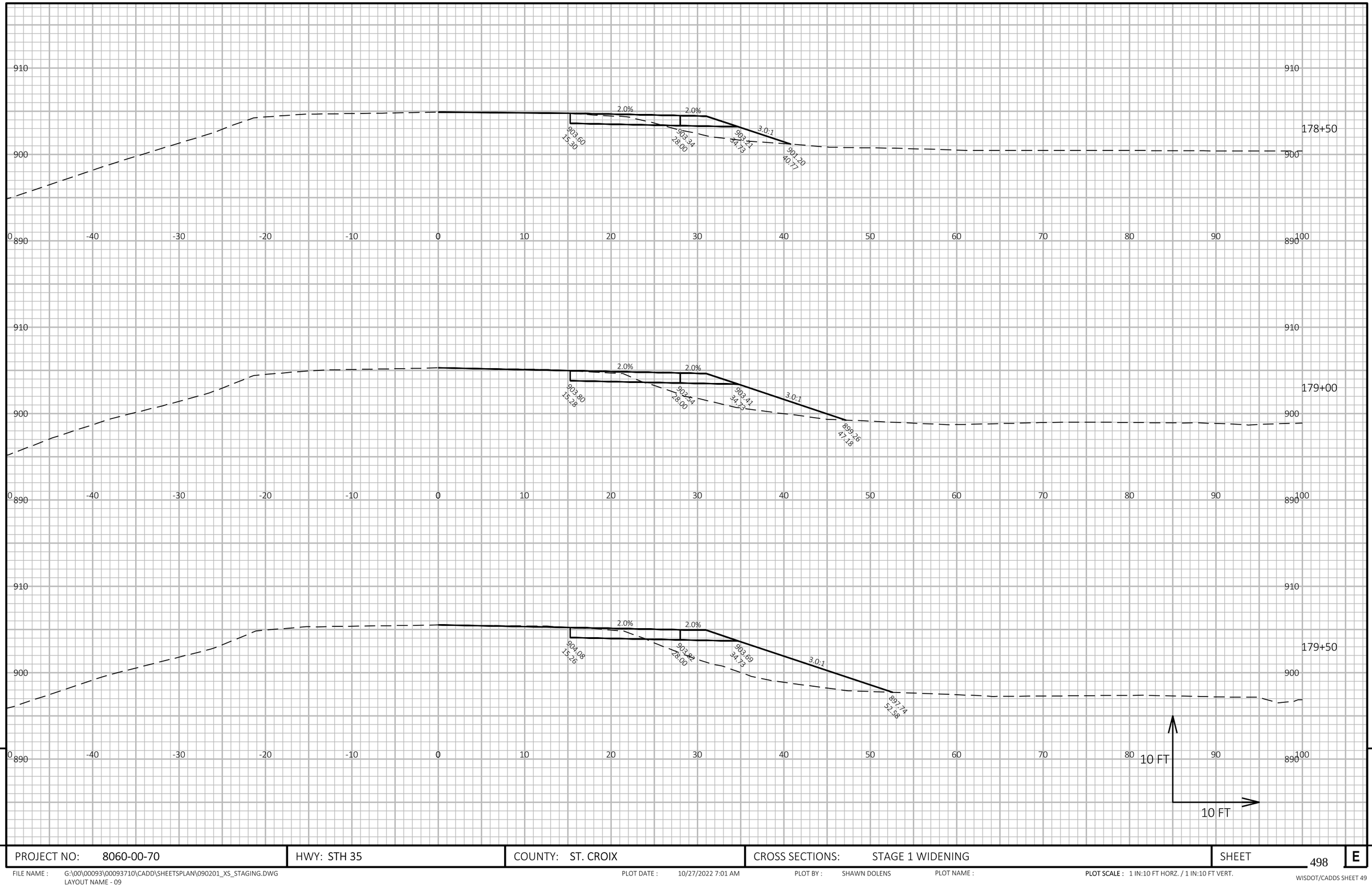
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 497	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 08

PLOT DATE : 10/27/2022 7:01 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49



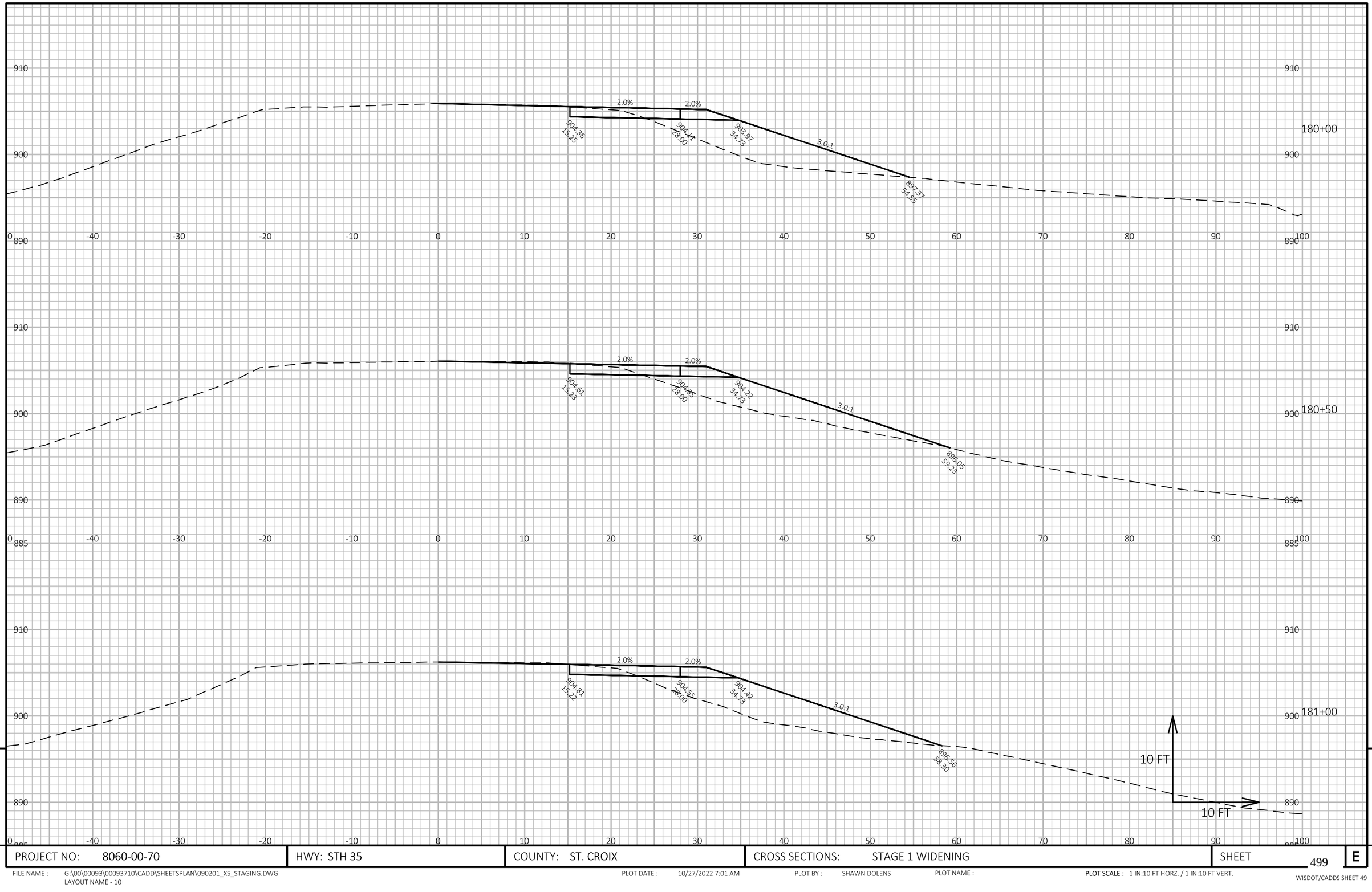
9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 498	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 09

PLOT DATE : 10/27/2022 7:01 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

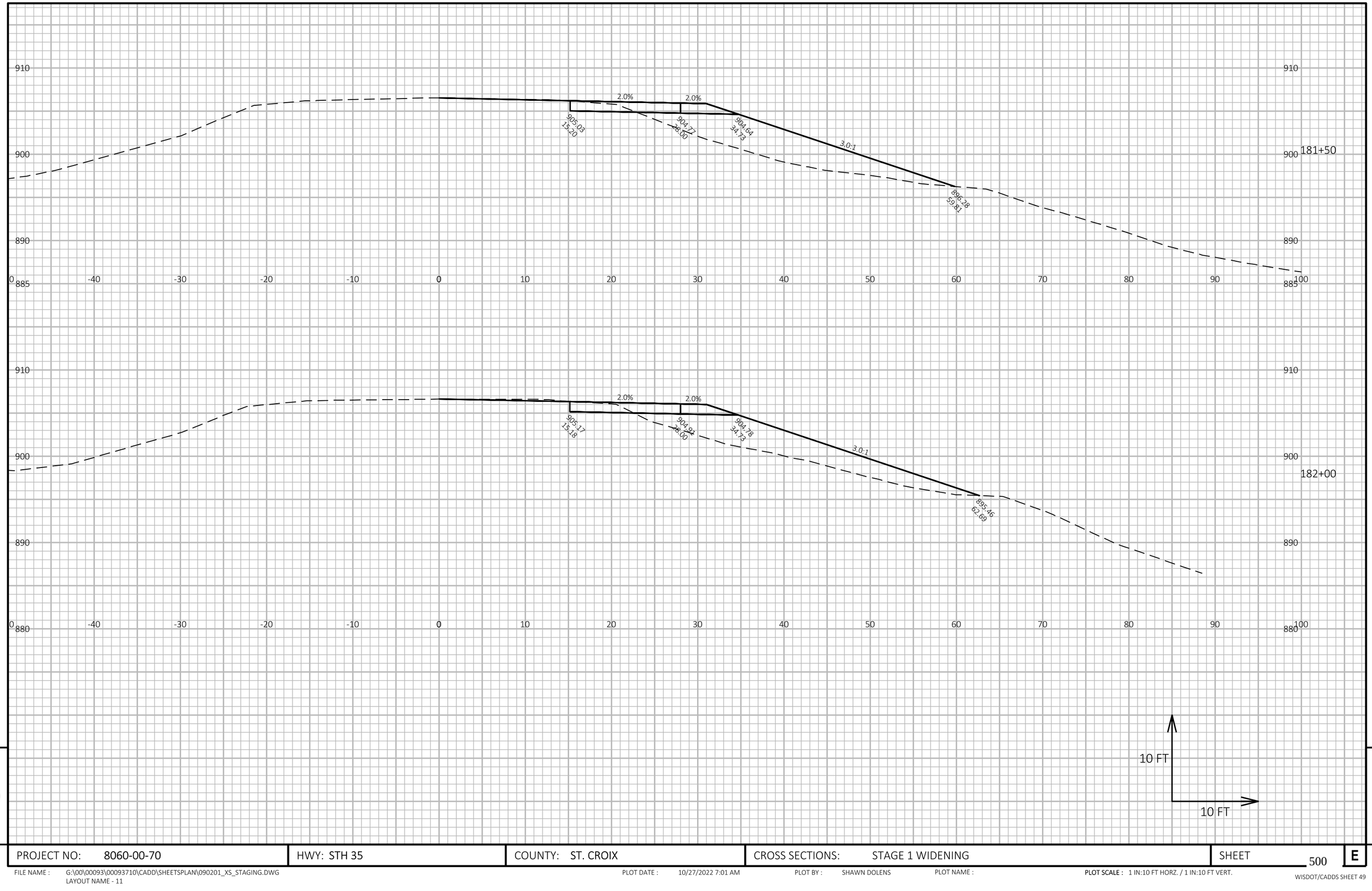
9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 499	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 10

PLOT DATE : 10/27/2022 7:01 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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



9

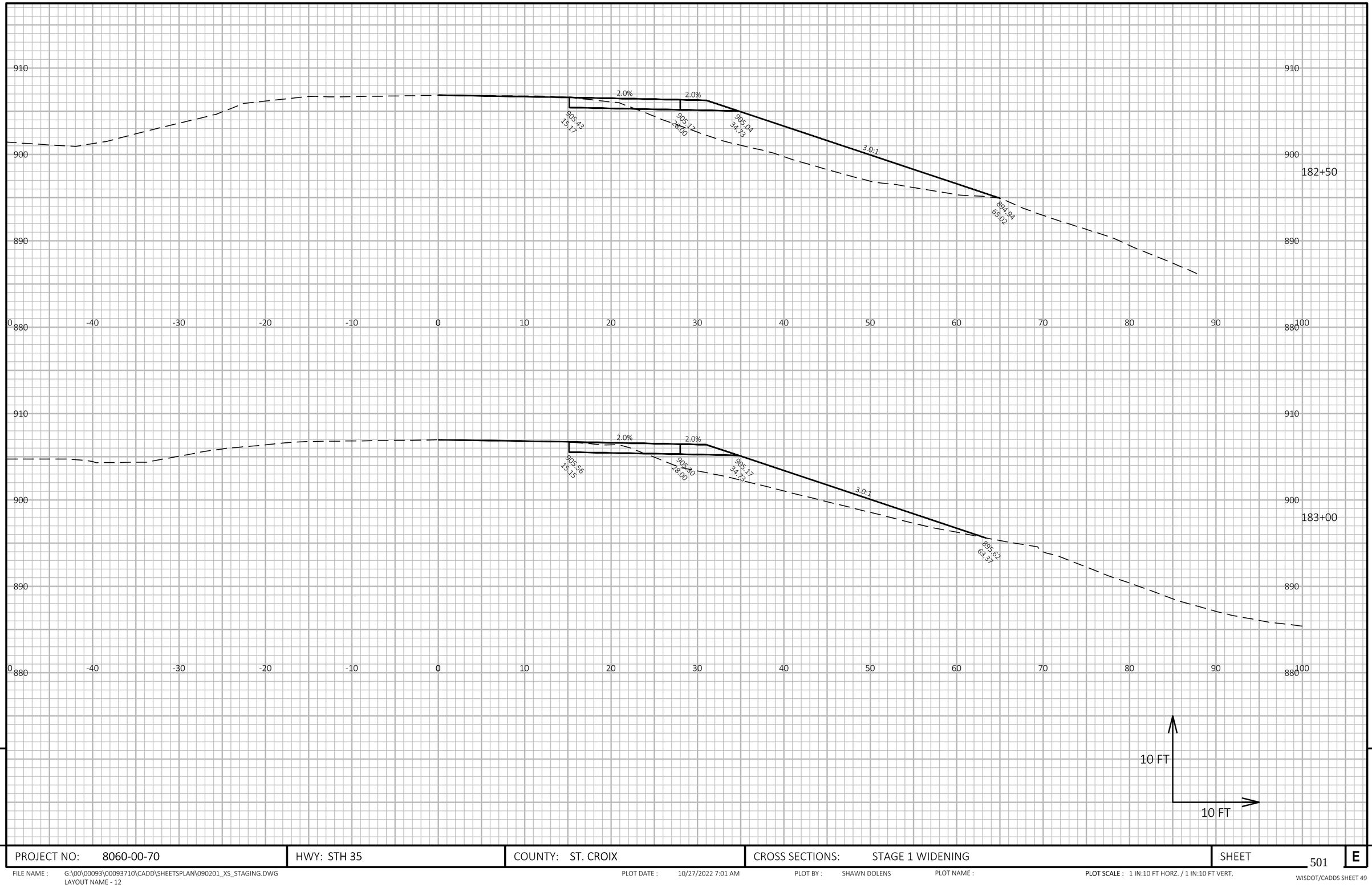
9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 500	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 11

PLOT DATE : 10/27/2022 7:01 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

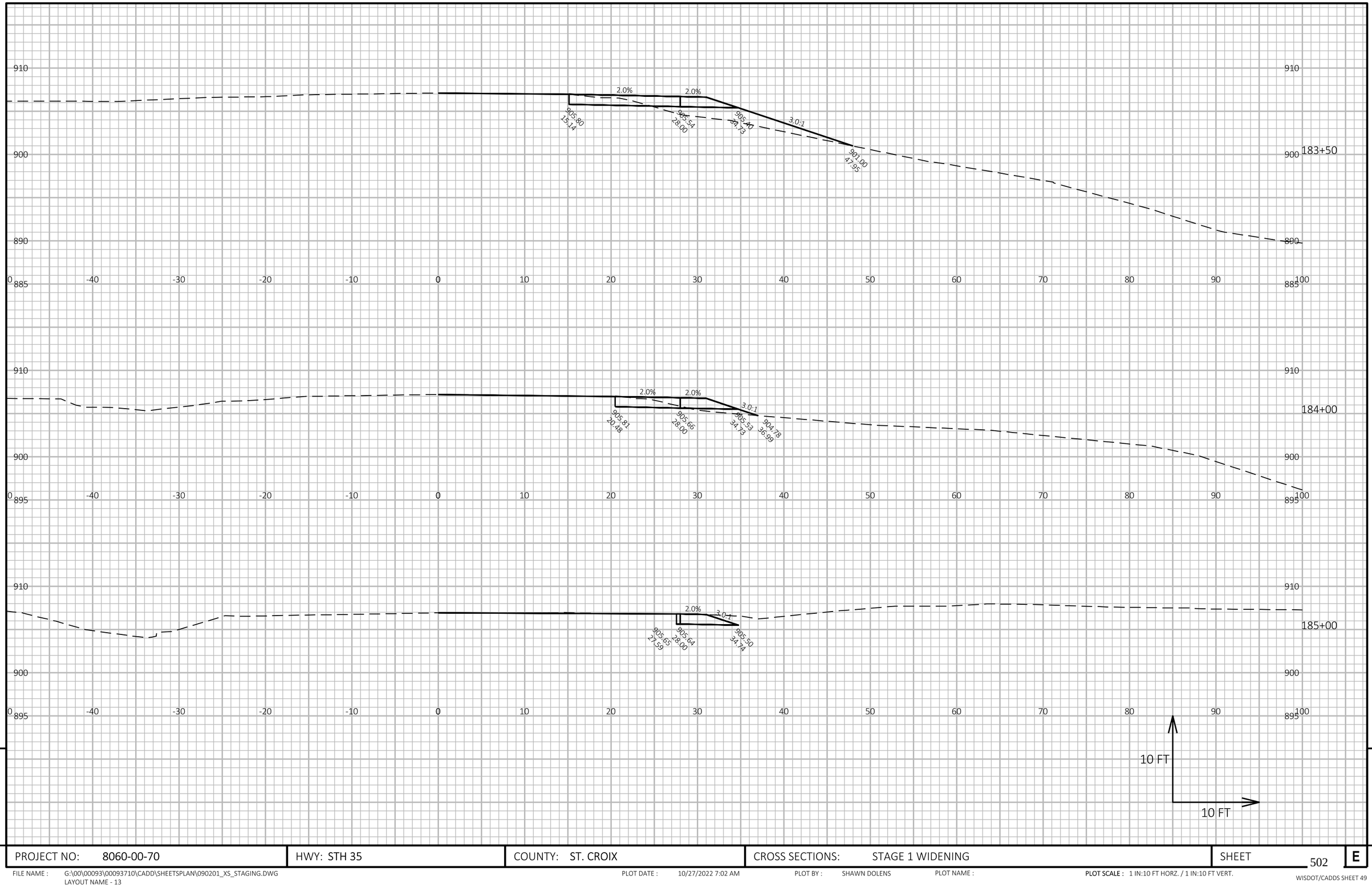
9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 501	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 12

PLOT DATE : 10/27/2022 7:01 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 502	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 13

PLOT DATE : 10/27/2022 7:02 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

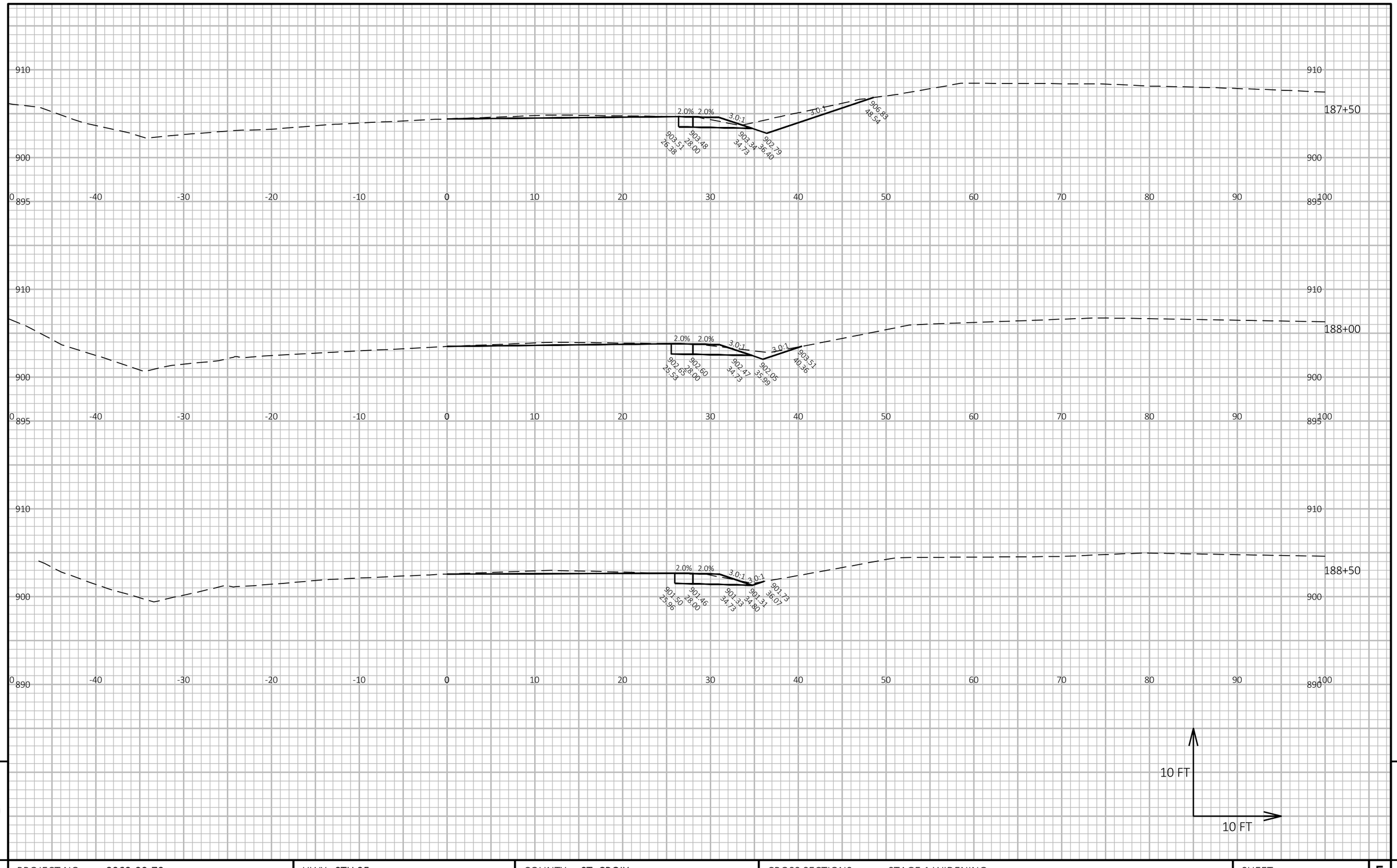
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 503	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 14

PLOT DATE : 10/27/2022 7:02 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49

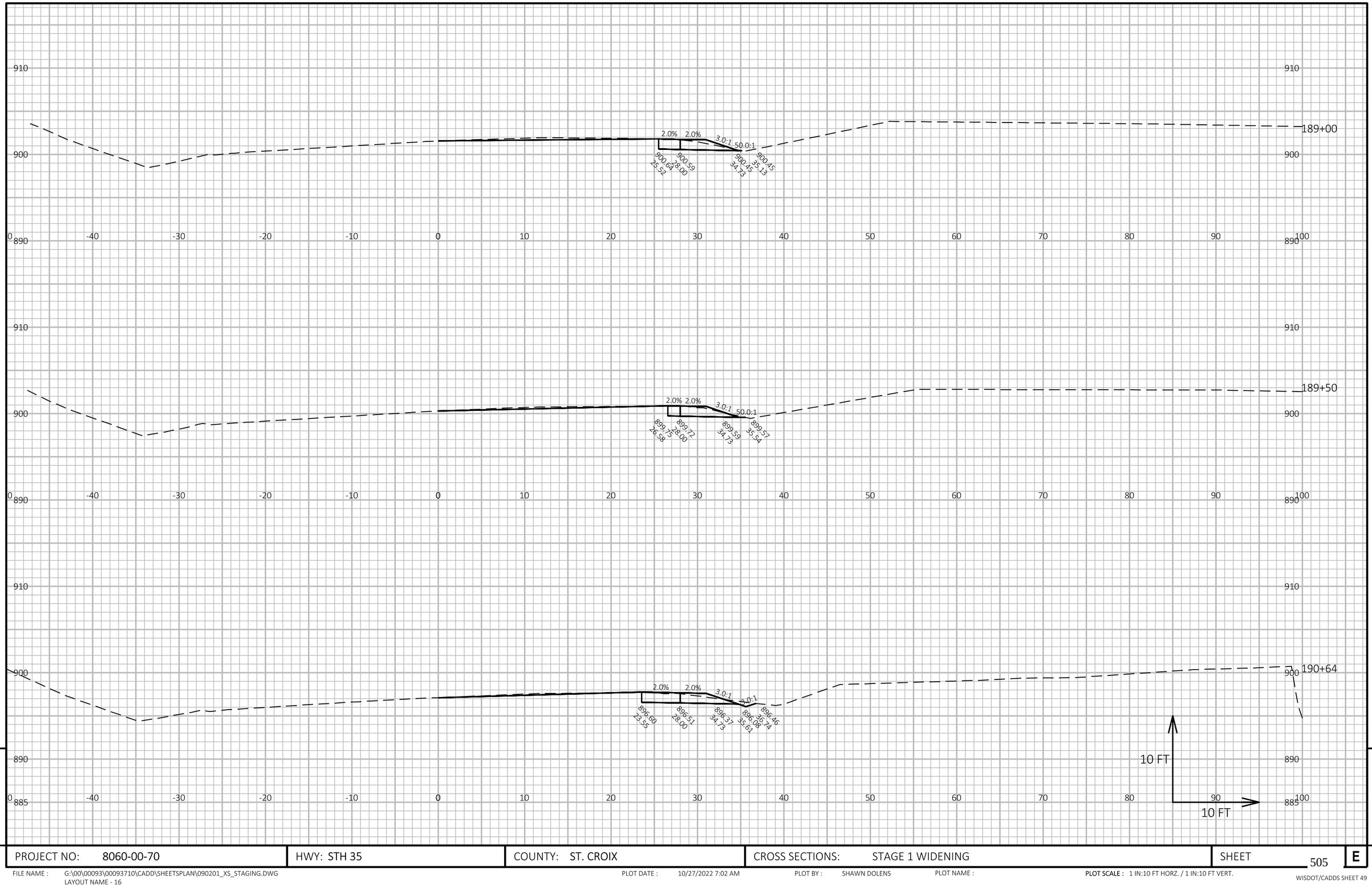


PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 504	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 15

PLOT DATE : 10/27/2022 7:02 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 505	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 16

PLOT DATE : 10/27/2022 7:02 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

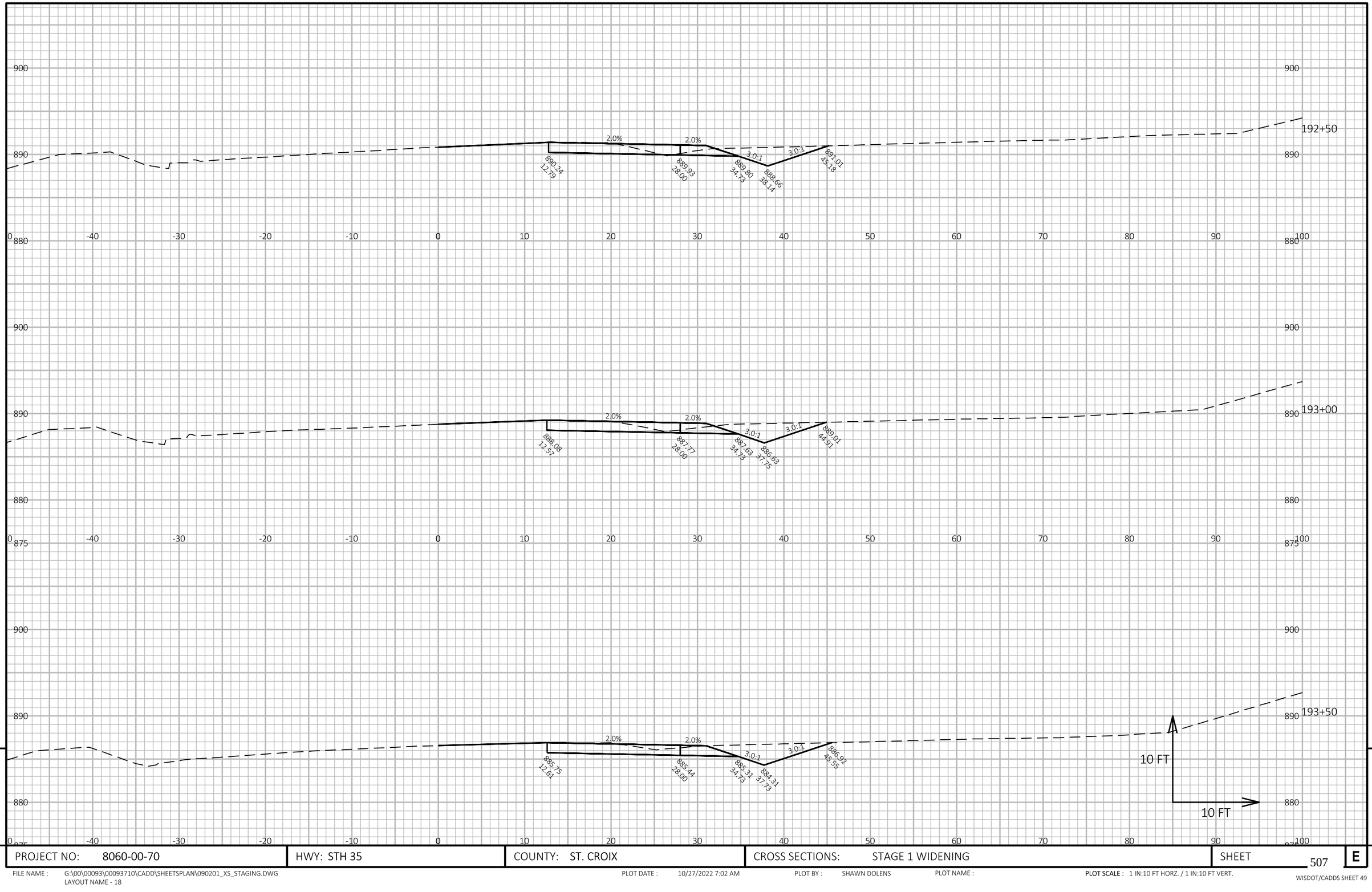
PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 506	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 17

PLOT DATE : 10/27/2022 7:02 AM PLOT BY : SHAWN DOLENS PLOT NAME :

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

WISDOT/CADDS SHEET 49

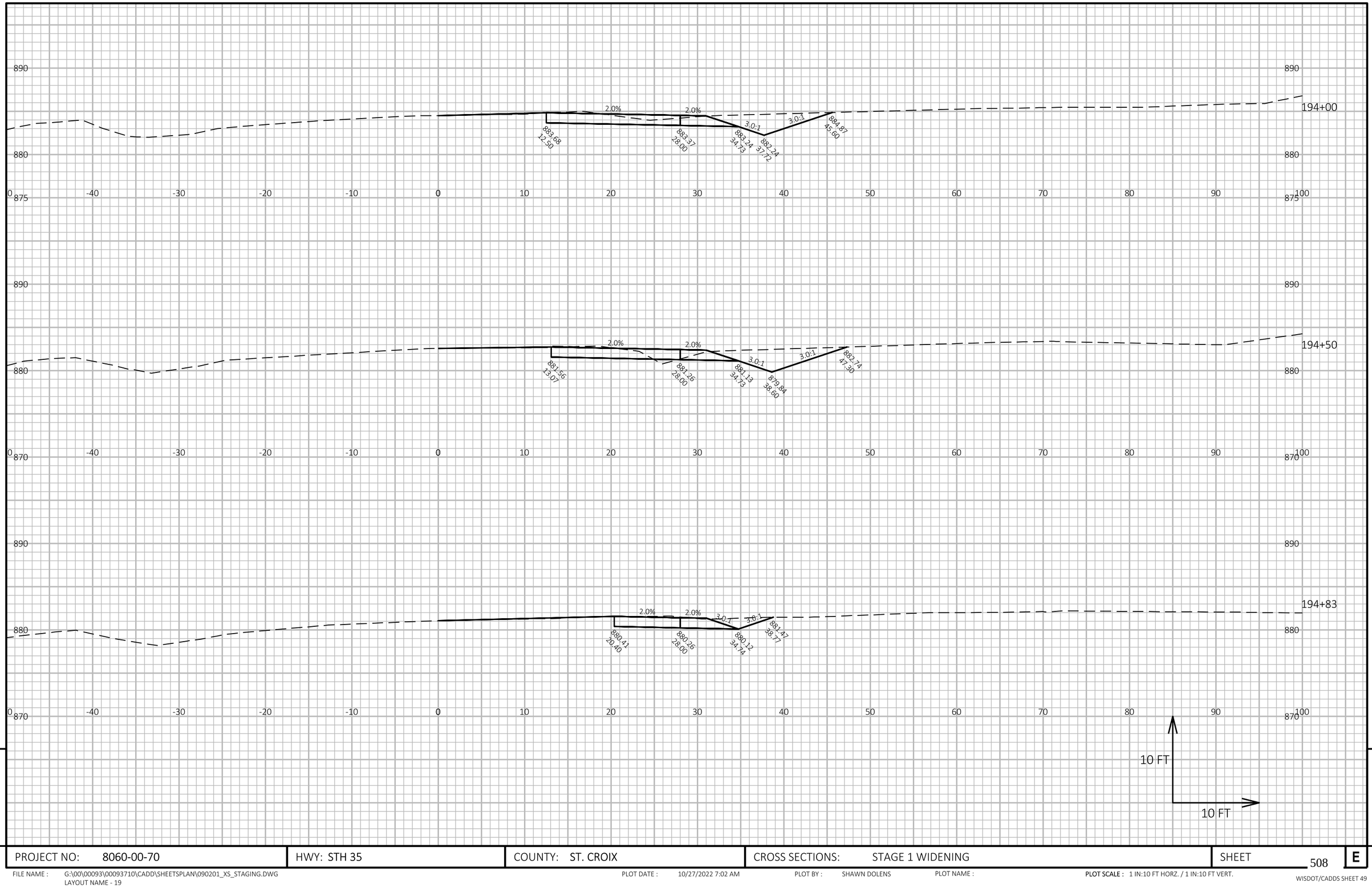


9	PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 507 E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 18

PLOT DATE : 10/27/2022 7:02 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 8060-00-70	HWY: STH 35	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 WIDENING	SHEET 508	E

FILE NAME : G:\00\00093\00093710\CADD\SHEETSPLAN\090201_XS_STAGING.DWG
LAYOUT NAME - 19

PLOT DATE : 10/27/2022 7:02 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov