RHI

JANUARY 2026

PROJECT ID: 9180-17-71/9180-17-72

WITH: N/A

COUNTY: SHAWANO

ORDER OF SHEETS

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

TOTAL SHEETS = 376



3 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9180-17-71	WISC 2026153	1
9180-17-72	WISC 2026154	1

SHAWANO - GILLETT

CTH BE TO CTH R

STH 22

SHAWANO COUNTY

STATE PROJECT NUMBER

9180-17-71

SHAWANO - GILLETT

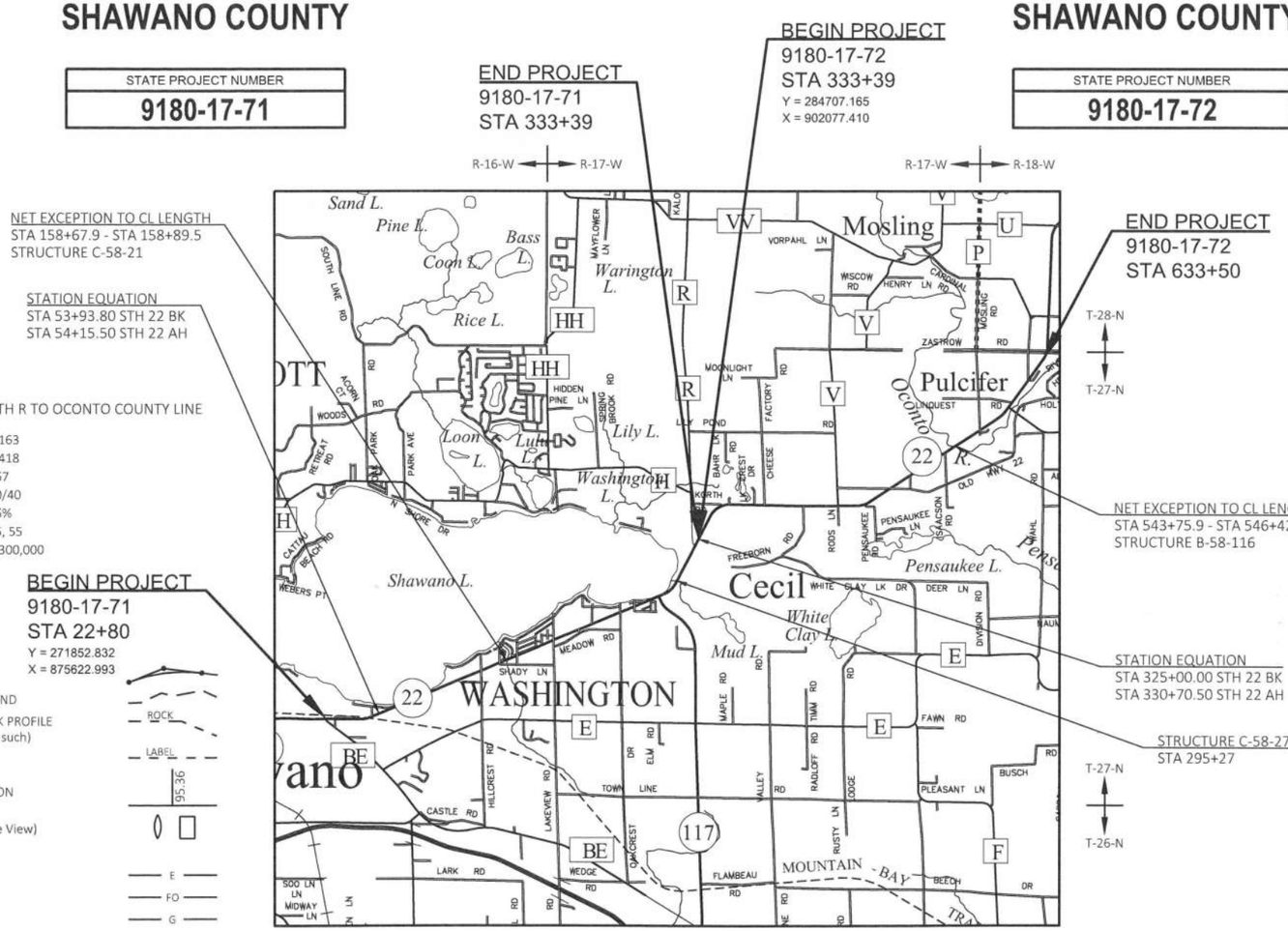
CTH R TO OCONTO COUNTY LINE

STH 22

SHAWANO COUNTY

STATE PROJECT NUMBER

9180-17-72



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 11.454 MI
TOTAL NET LENGTH OF CENTERLINE (9180-17-71) = 5.766 MI
TOTAL NET LENGTH OF CENTERLINE (9180-17-72) = 5.634 MI

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

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

DESIGN DESIGNATION			CTH BE TO STH 117	STH 117 TO CTH R	CTH R TO OCONTO COUNTY LINE
A.A.D.T.	(2026)	=	5,456	8,614	3,163
A.A.D.T.	(2046)	=	6,427	9,415	3,418
D.H.V.		=	595	914	367
D.D.		=	60/40	60/40	60/40
T.		=	9.4%	10.1%	16%
DESIGN SPEED		=	45, 55	40	35, 55
ESALS		=	1,300,000	2,100,000	1,300,000

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
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

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

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

ORIGINAL PLANS PREPARED BY

AYRES

WISCONSIN ANDREW C. DANA 34172 OCONTO, WI PROFESSIONAL ENGINEER

7-24-2025 (Date)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT / AYRES
Designer	AYRES
Project Manager	MICHELLE GUOIN, PE
Regional Examiner	FRED SCHUNKE, PE
Regional Supervisor	DAN ERVA, PE

APPROVED FOR THE DEPARTMENT

DATE: 7/25/2025 Michelle Guoin (Signature)

E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\010101-TI.DWG PLOT DATE : 11/18/2025 3:47 PM PLOT BY : GARNICA, BRANDON PLOT NAME :

GENERAL NOTES

1. THE LOCATION OF EXISTING & PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLAN.
2. CURVE DATA IS BASED ON THE ARC DEFINITION.
3. BEARINGS SHOWN ON THIS PLAN ARE TRUE BEARINGS.
4. PROPERTY LINES SHOWN ARE APPROXIMATE.
5. CURB AND GUTTER ELEVATIONS ARE ALONG THE FLANGE LINE UNLESS OTHERWISE NOTED. RADIUS POINTS, UNLESS OTHERWISE NOTED, ARE TO THE FACE OF THE CURB.

UTILITY CONTACTS

SPECTRUM - COMMUNICATION LINE
ATTN: SCOTT KAISER
5024 HEFFRON STREET
STEVENS POINT, WI 54481
PHONE: 715-382-3493
EMAIL: scott.kaiser@charter.com

FRONTIER COMMUNICATIONS OF WI LLC
ATTN: CHRISTOPHER POLLACK
521 N 4TH STREET
WAUSAU, WI 54403
PHONE: 715-847-1240
EMAIL: christopher.pollack@ftr.com

SHAWANO LAKE SANITARY DISTRICT 1 - SEWER
ATTN: DAVE VAN GRINSVEN
N4802 RIVER BEND ROAD
SHAWANO, WI 54166
PHONE: 715-524-2176
EMAIL: shawanolakesd@frontier.com

SHAWANO LAKE SANITARY DISTRICT 1 - WATER
ATTN: DAVE VAN GRINSVEN
N4802 RIVER BEND ROAD
SHAWANO, WI 54166
PHONE: 715-524-2176
EMAIL: shawanolakesd@frontier.com

SHAWANO MUNICIPAL UTILITIES - ELECTRICITY
ATTN: ADAM CARROLL
122 N SAWYER STREET
P.O. BOX 436
SHAWANO, WI 54166
PHONE: 715-853-9305
EMAIL: acarroll@cityofshawano.com

WE ENERGIES - ELECTRICITY
ATTN: ZACH DUGA
800 S LYNNDALE DRIVE
APPLETON, WI 54912
PHONE: 920-380-3458
EMAIL: zachary.duga@we-energies.com

WE ENERGIES - GAS/PETROLEUM
ATTN: EDDIE HEDLUND
800 S LYNNDALE DRIVE
APPLETON, WI 54912
PHONE: 920-380-3240
EMAIL: eddie.Hedlund@we-energies.com

WINDSTREAM KDL, LLC
ATTN: LORI KETTER
969 WAUBE LANE
GREEN BAY, WI 54304
PHONE: 920-410-6902
EMAIL: lori.ketter@windstream.com

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 = 70.525 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 8.946 ACRES

ORDER OF DETAIL SHEETS

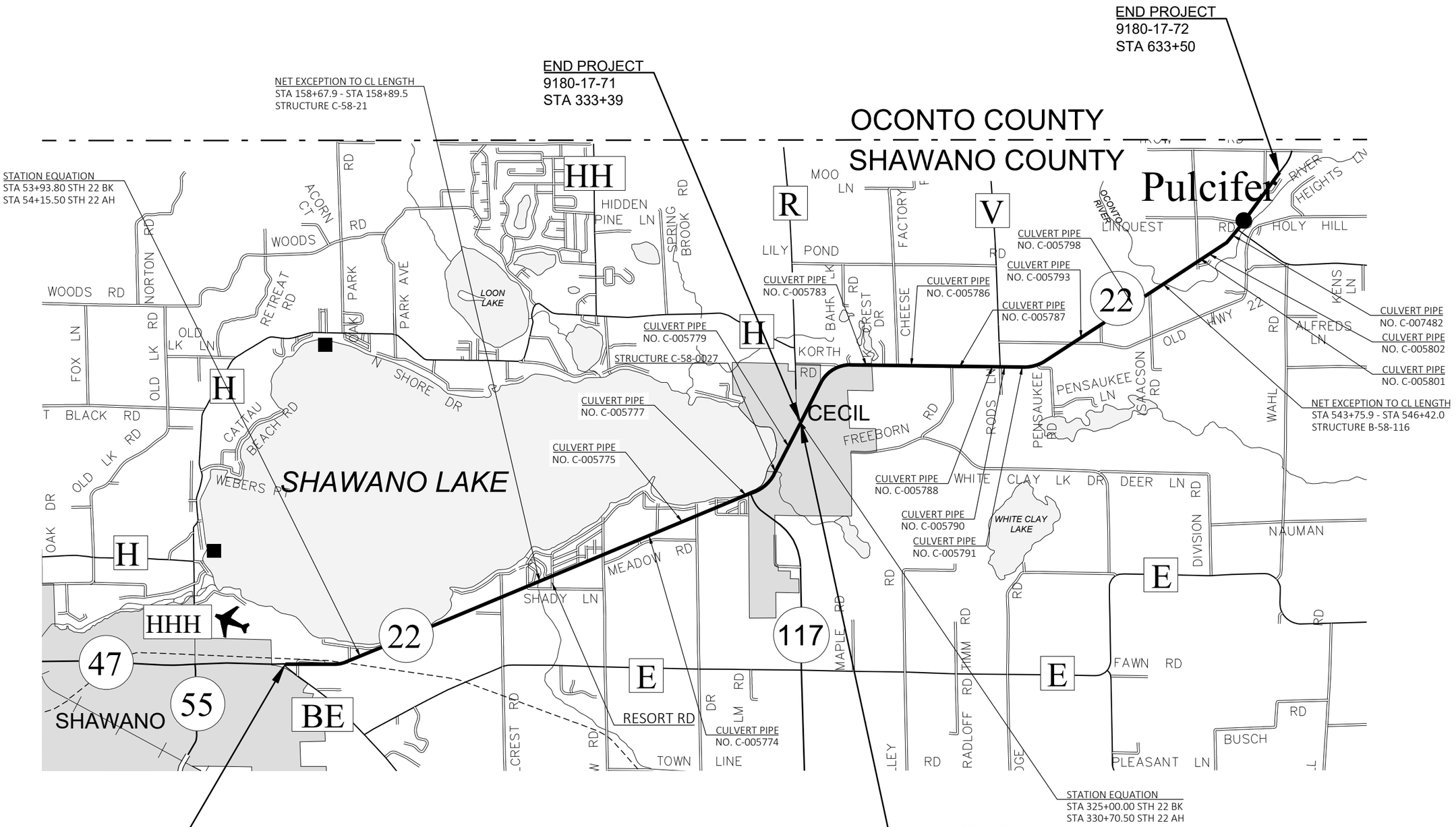
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
CURB RAMPS
EROSION CONTROL
TRAFFIC CONTROL

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

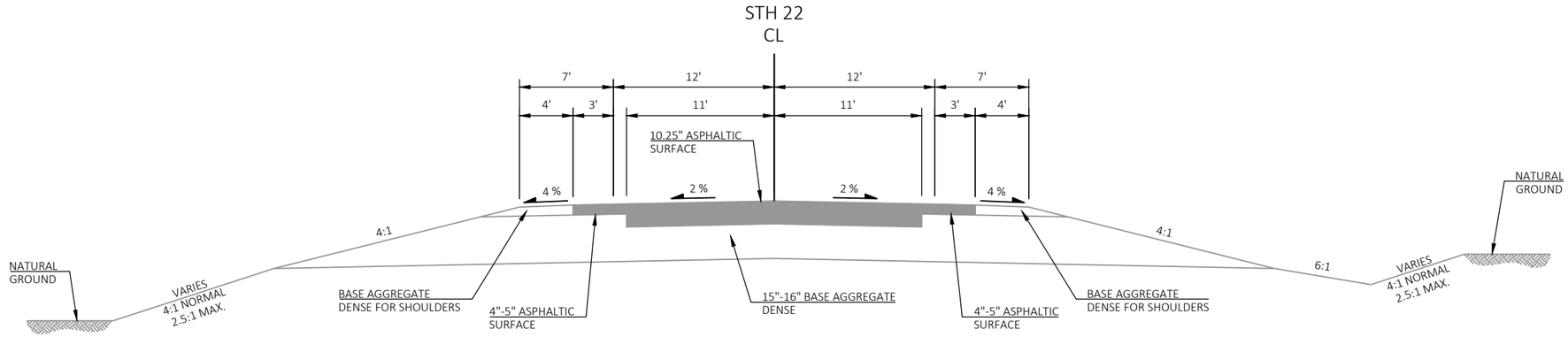
DNR CONTACT

JAMES DOPERALSKI
2984 SHAWANO AVE
GREEN BAY, WI 54313-6727
james.doperalski@wisconsin.gov
920-412-0165

2

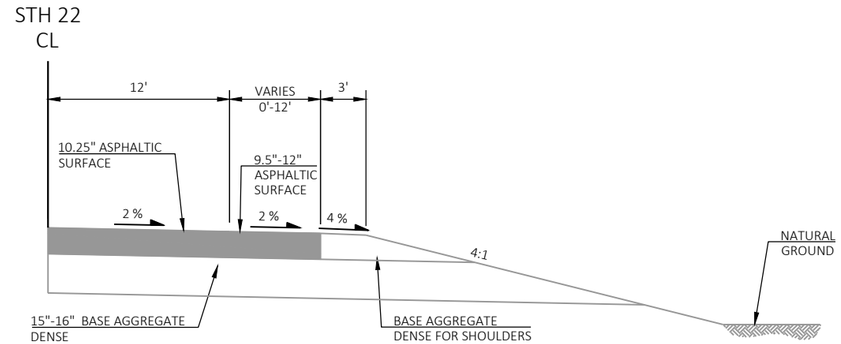


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	PLAN: PROJECT OVERVIEW	SHEET 3	E



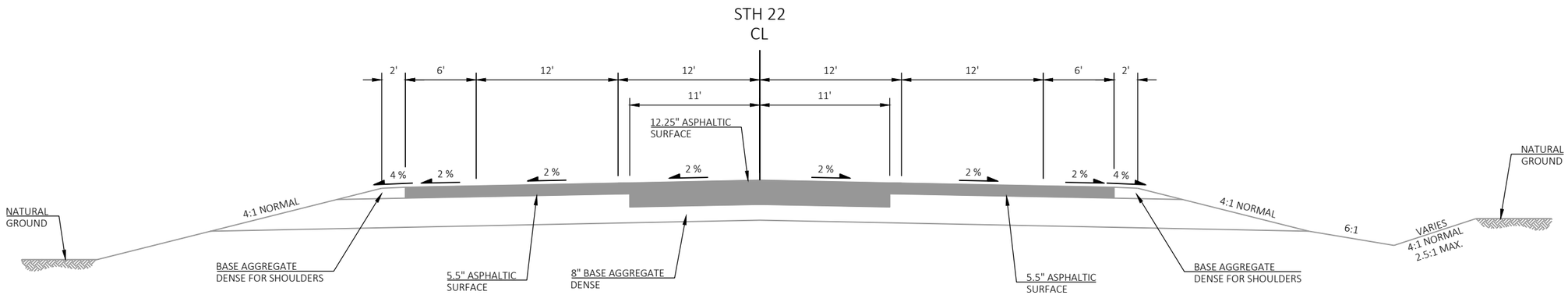
EXISTING TYPICAL SECTION FOR STH 22

STA 22+80 - STA 158+67.9
STA 158+89.5 - STA 315+00
STA 325+00 - STA 396+00
STA 461+00 - STA 543+75.9
STA 546+42 - STA 589+90



EXISTING 1/2 TYPICAL SECTION FOR STH 22

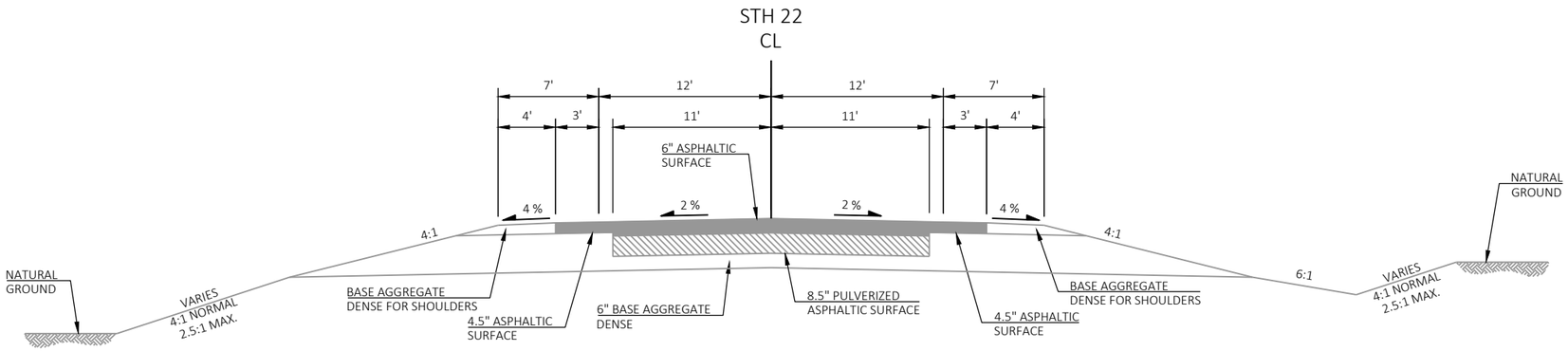
STA 271+75RT - STA 280+30RT



EXISTING TYPICAL SECTION FOR STH 22

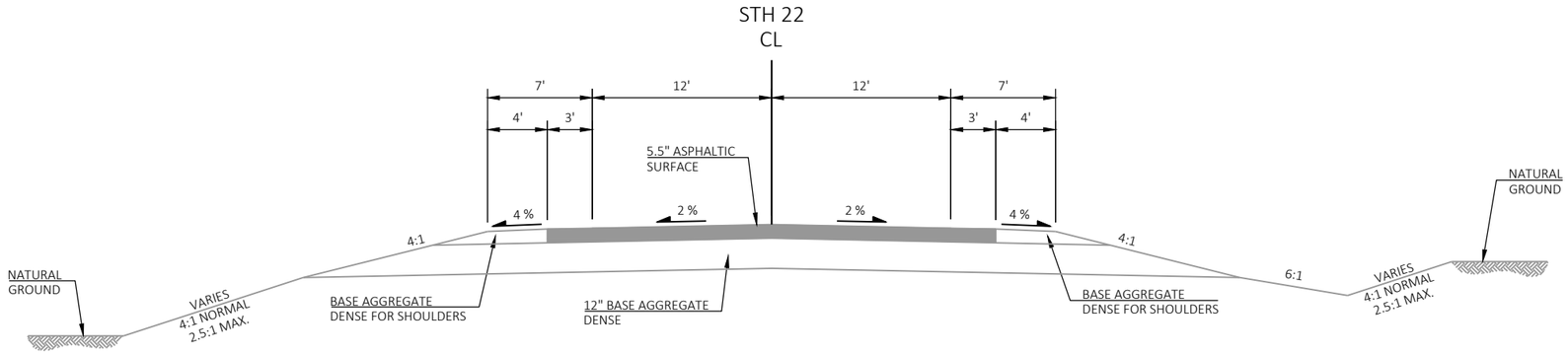
STA 315+00 - STA 325+00

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 4	E



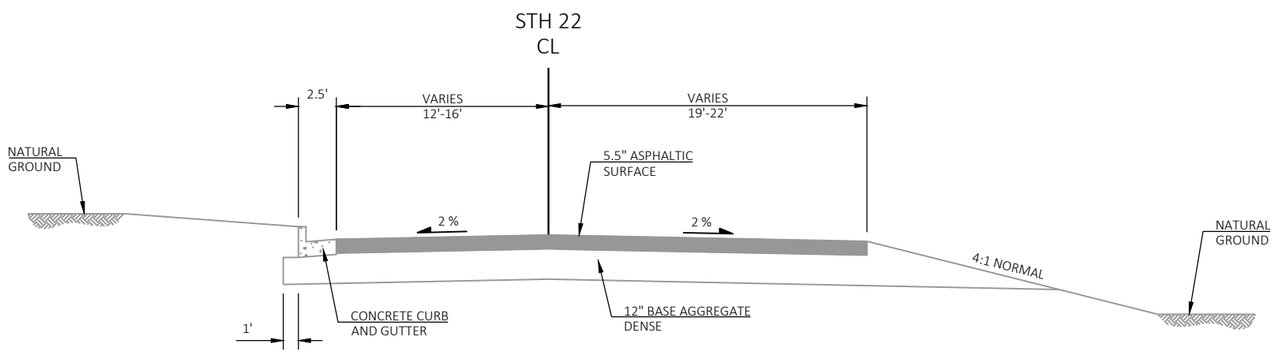
EXISTING TYPICAL SECTION FOR STH 22

STA 396+00 - STA 461+00



EXISTING TYPICAL SECTION FOR STH 22

STA 589+90 - STA 592+95
STA 617+50- STA 633+50

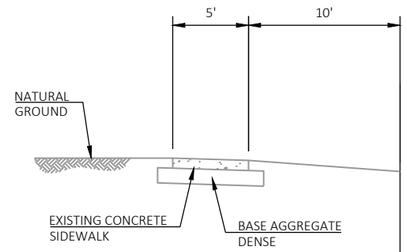


EXISTING TYPICAL SECTION FOR STH 22

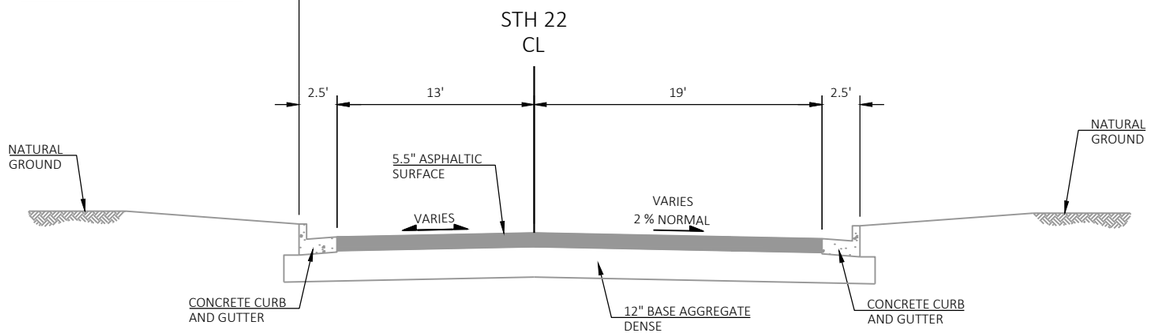
STA 592+95 - STA 597+97

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 5	E

2



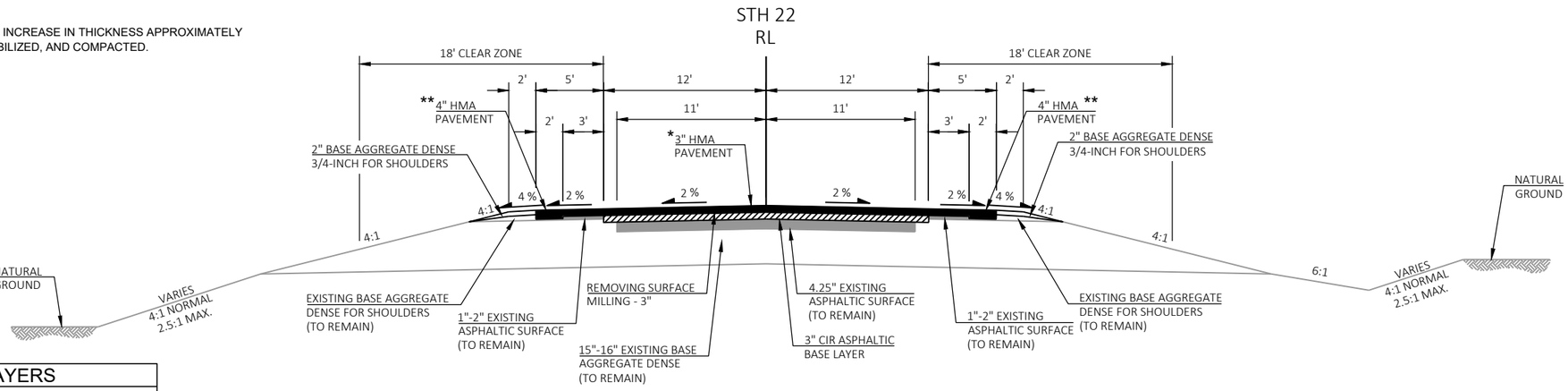
STA 599+23 LT - STA 603+57 LT



EXISTING TYPICAL SECTION FOR STH 22

STA 597+97 - STA 617+50

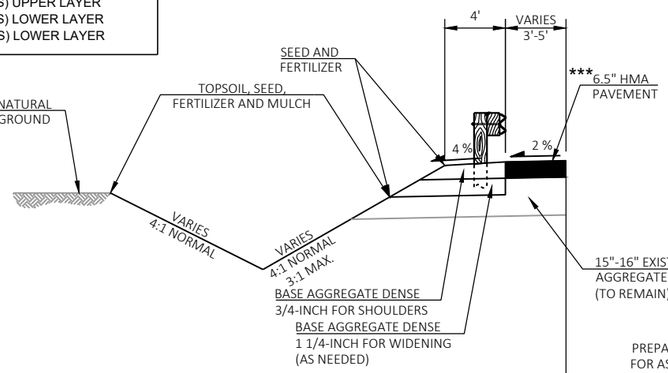
NOTE: CIR MATERIAL CAN BE EXPECTED TO INCREASE IN THICKNESS APPROXIMATELY 10 TO 15 PERCENT ONCE PROCESSED, STABILIZED, AND COMPACTED.



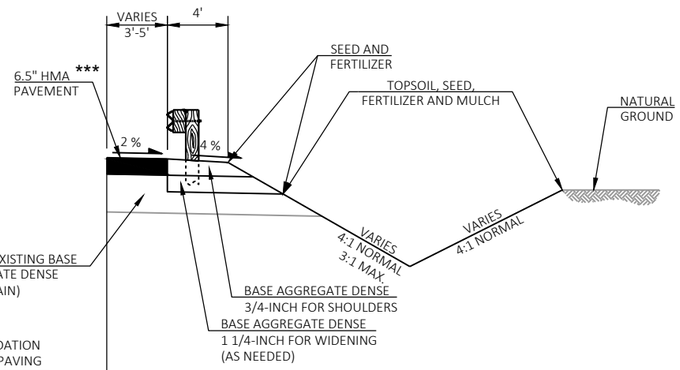
FINISHED TYPICAL SECTION FOR STH 22

STA 22+80 - STA 152+50.0
STA 265+25 - STA 293+25
STA 297+50 - STA 312+37

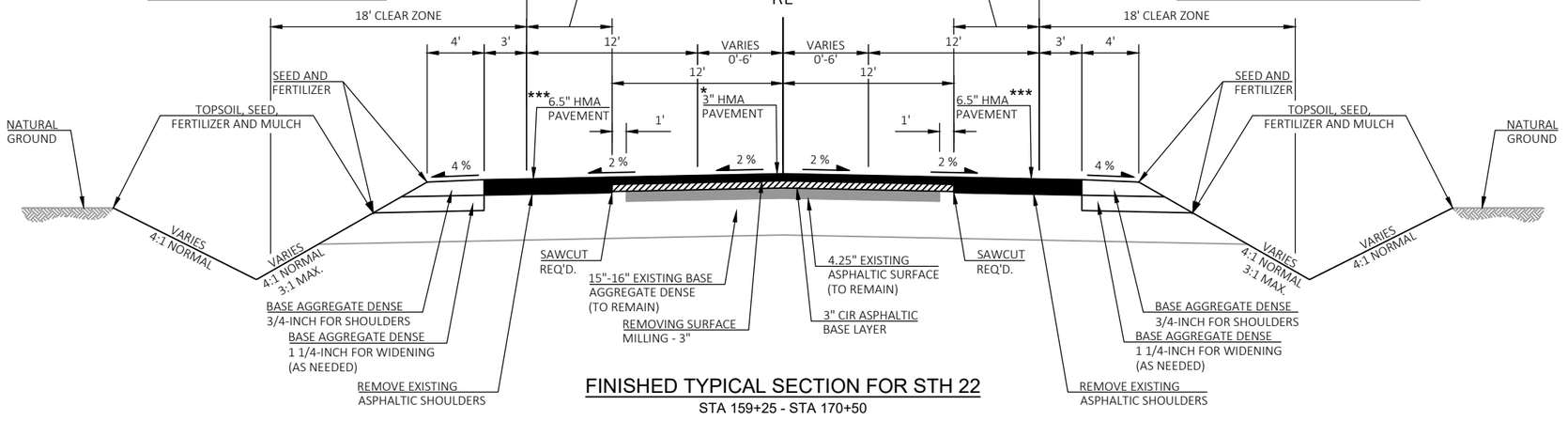
PAVEMENT LAYERS	
* 3" HMA PAVEMENT	1.25" (5 MT 58-34 S) UPPER LAYER 1.75" (4 MT 58-28 S) LOWER LAYER
** 4" HMA PAVEMENT	1.25" (5 MT 58-34 S) UPPER LAYER 2.75" (4 MT 58-28 S) LOWER LAYER
*** 6.5" HMA PAVEMENT	1.25" (5 MT 58-34 S) UPPER LAYER 1.75" (4 MT 58-28 S) LOWER LAYER 3.50" (3 MT 58-28 S) LOWER LAYER



STA 159+45.4, LT - STA 159+98.5, LT



STA 159+50.0, RT - STA 160+03.0, RT



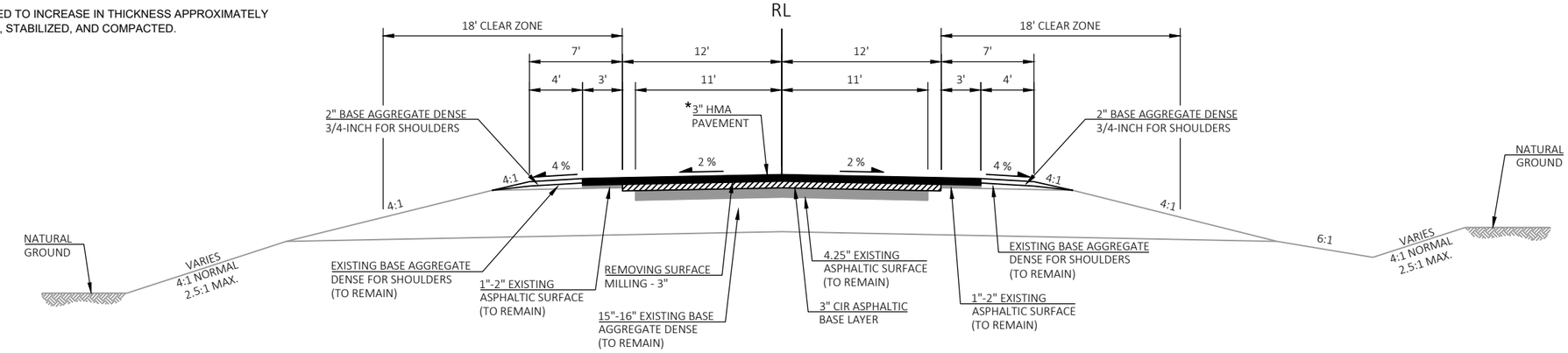
FINISHED TYPICAL SECTION FOR STH 22

STA 159+25 - STA 170+50

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 7	E

NOTE: CIR MATERIAL CAN BE EXPECTED TO INCREASE IN THICKNESS APPROXIMATELY 10 TO 15 PERCENT ONCE PROCESSED, STABILIZED, AND COMPACTED.

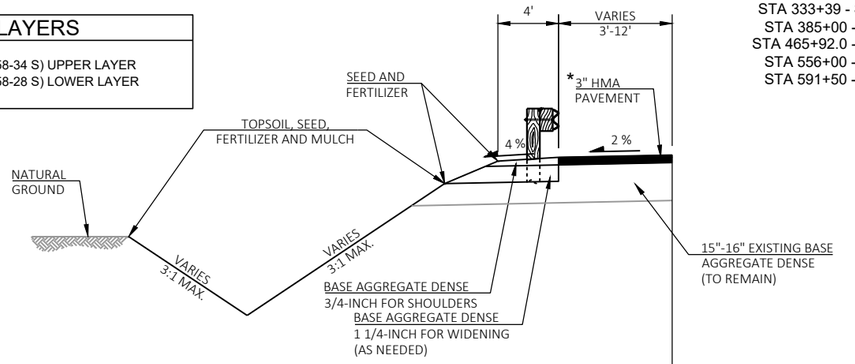
STH 22
RL



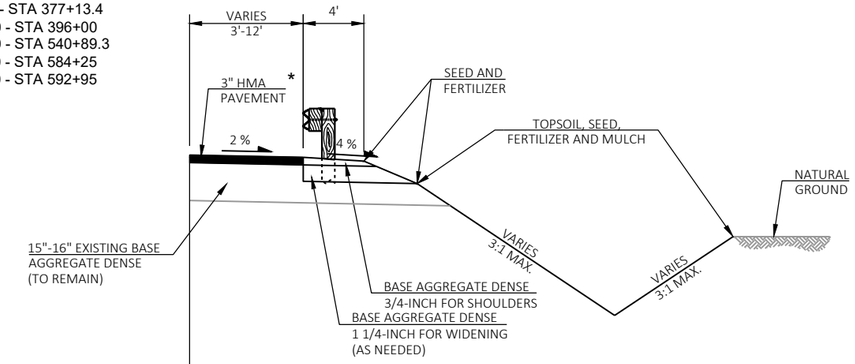
FINISHED TYPICAL SECTION FOR STH 22

STA 152+50 - STA 159+25
STA 170+50 - STA 197+27.4
STA 201+94.3 - STA 265+25
STA 333+39 - STA 377+13.4
STA 385+00 - STA 396+00
STA 465+92.0 - STA 540+89.3
STA 556+00 - STA 584+25
STA 591+50 - STA 592+95

PAVEMENT LAYERS	
* 3" HMA PAVEMENT	1.25" (5 MT 58-34 S) UPPER LAYER 1.75" (4 MT 58-28 S) LOWER LAYER

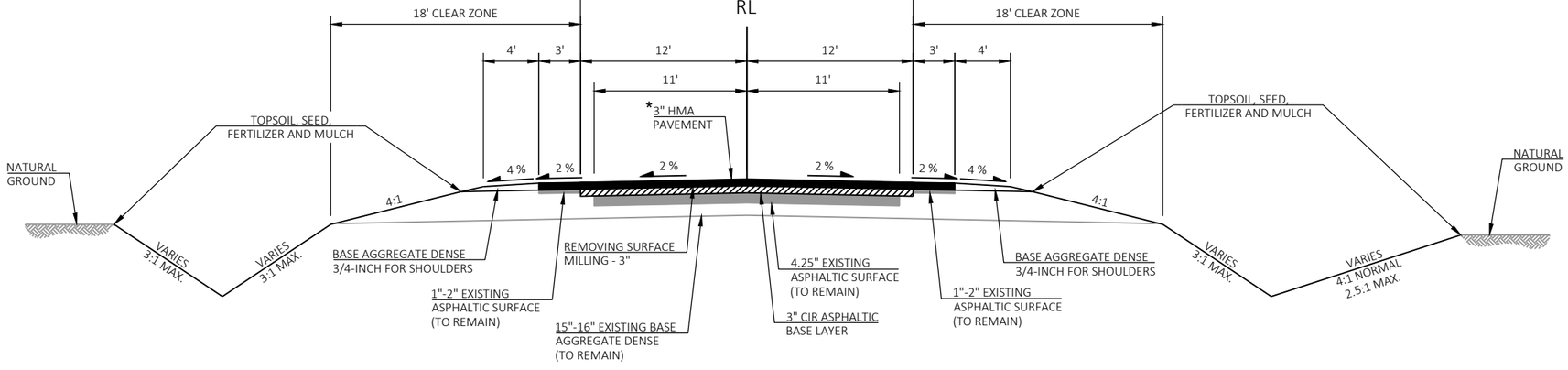


STA 199+12.6, LT - STA 200+48.7, LT
STA 542+85.4, LT - STA 543+39, LT
STA 546+36.7, LT - STA 554+79.2, LT



STA 198+68, RT - STA 200+49.2, RT
STA 540+89.3, RT - STA 543+81.8, RT
STA 546+80.6, RT - STA 553+98.1, RT

STH 22
RL



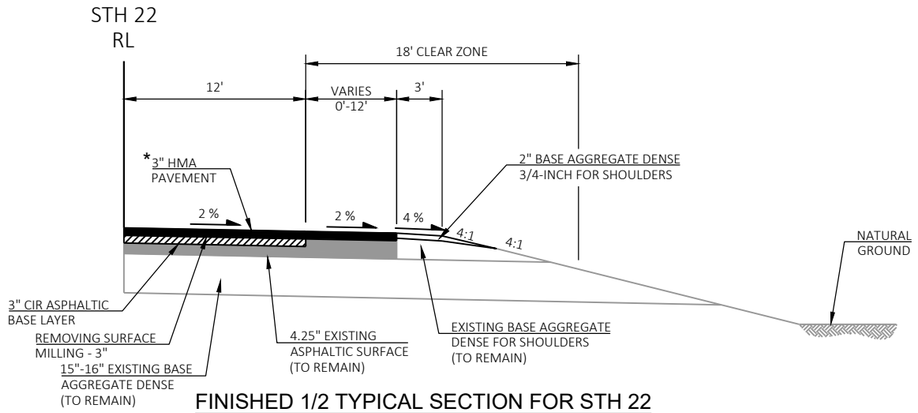
FINISHED TYPICAL SECTION FOR STH 22

STA 197+27.4 - STA 201+94.3
STA 540+89.3 - STA 543+75.9
STA 546+42.0 - STA 556+00
STA 584+25 - STA 591+50

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 8	E

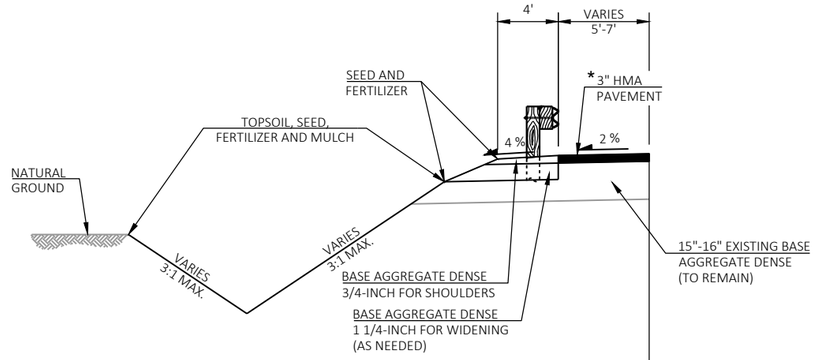
NOTE: CIR MATERIAL CAN BE EXPECTED TO INCREASE IN THICKNESS APPROXIMATELY 10 TO 15 PERCENT ONCE PROCESSED, STABILIZED, AND COMPACTED.

PAVEMENT LAYERS	
* 3" HMA PAVEMENT	1.25" (5 MT 58-34 S) UPPER LAYER 1.75" (4 MT 58-28 S) LOWER LAYER
** 4" HMA PAVEMENT	1.25" (5 MT 58-34 S) UPPER LAYER 2.75" (4 MT 58-28 S) LOWER LAYER

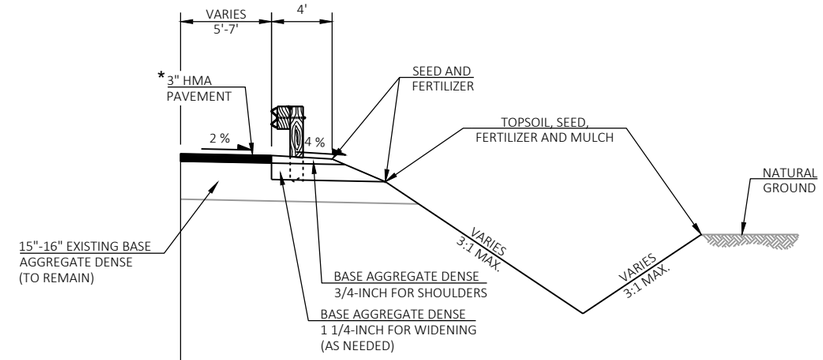


FINISHED 1/2 TYPICAL SECTION FOR STH 22

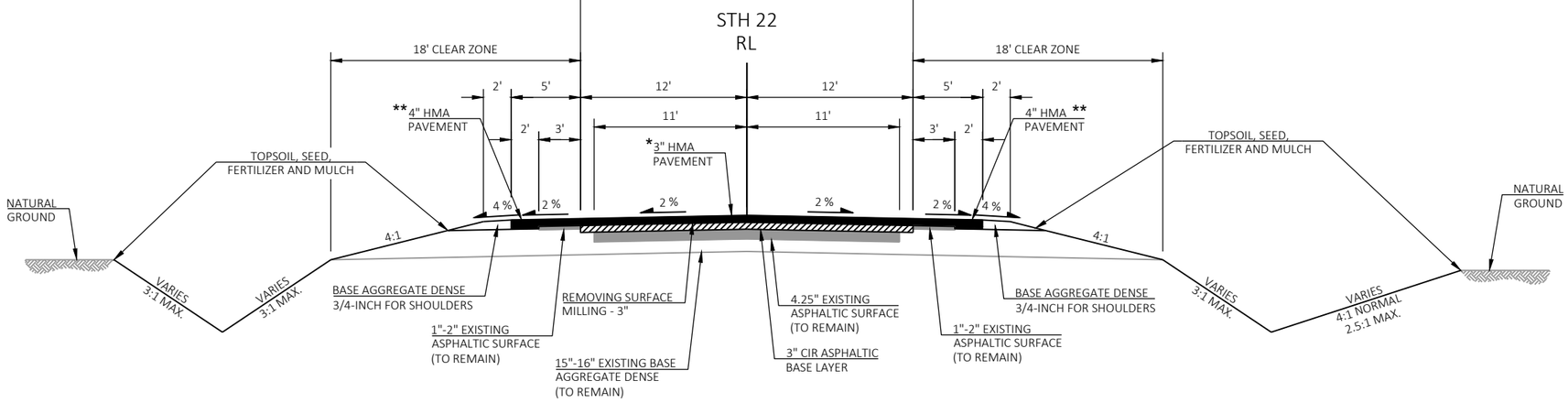
STA 271+75RT - STA 280+30RT



STA 294+15.7, LT - STA 296+34.5, LT



STA 294+21.4, RT - STA 296+40.1, RT



FINISHED TYPICAL SECTION FOR STH 22

STA 293+25 - STA 295+17

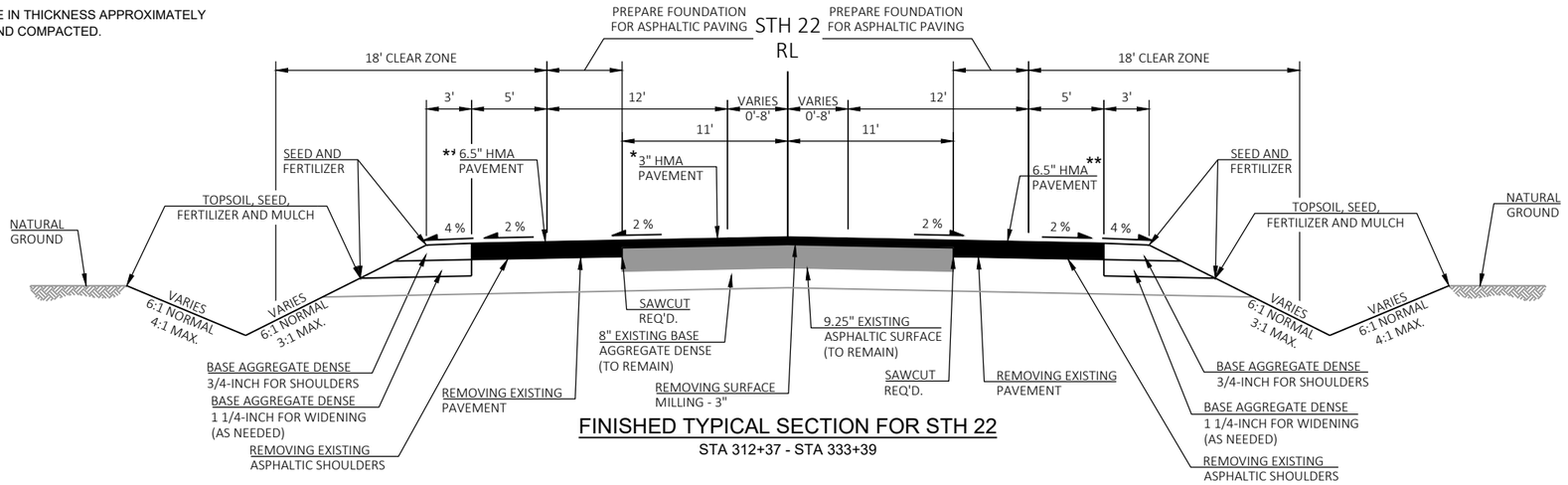
STA 295+36.6 - STA 297+50

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 9	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020306-ts

PLOT DATE : 11/18/2025 4:36 PM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT

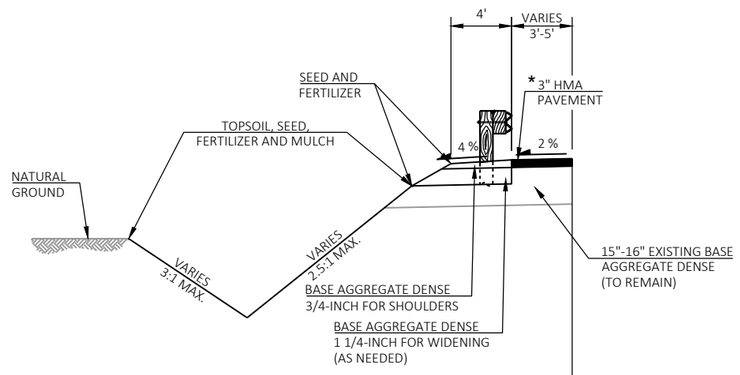
NOTE: CIR MATERIAL CAN BE EXPECTED TO INCREASE IN THICKNESS APPROXIMATELY 10 TO 15 PERCENT ONCE PROCESSED, STABILIZED, AND COMPACTED.



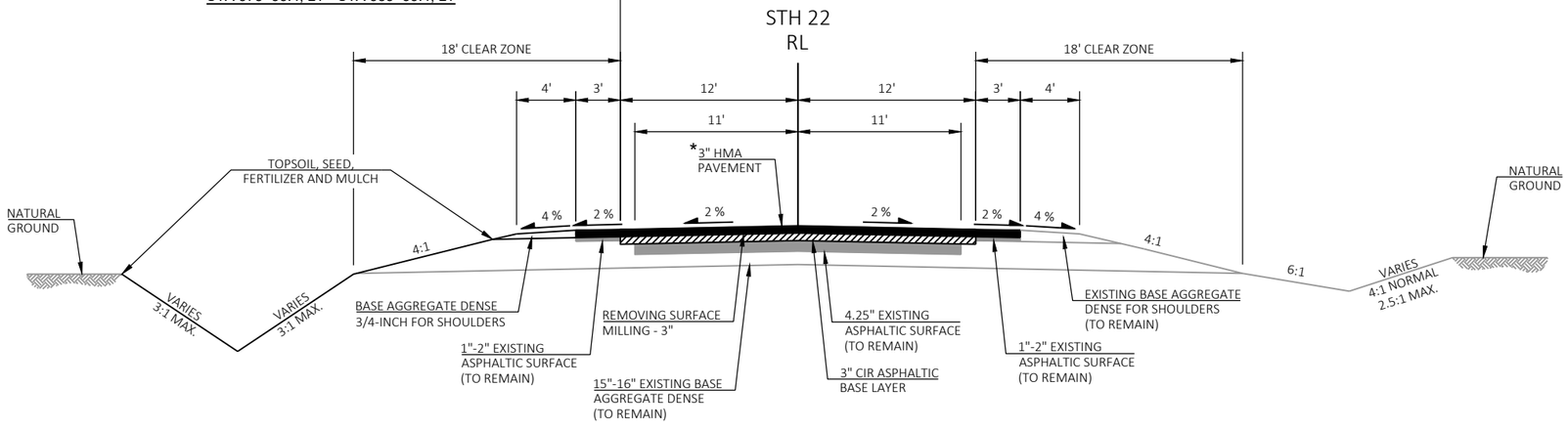
FINISHED TYPICAL SECTION FOR STH 22

STA 312+37 - STA 333+39

PAVEMENT LAYERS	
* 3" HMA PAVEMENT	1.25" (5 MT 58-34 S) UPPER LAYER 1.75" (4 MT 58-28 S) LOWER LAYER
** 6.5" HMA PAVEMENT	1.25" (5 MT 58-34 S) UPPER LAYER 1.75" (4 MT 58-28 S) LOWER LAYER 3.50" (3 MT 58-28 S) LOWER LAYER



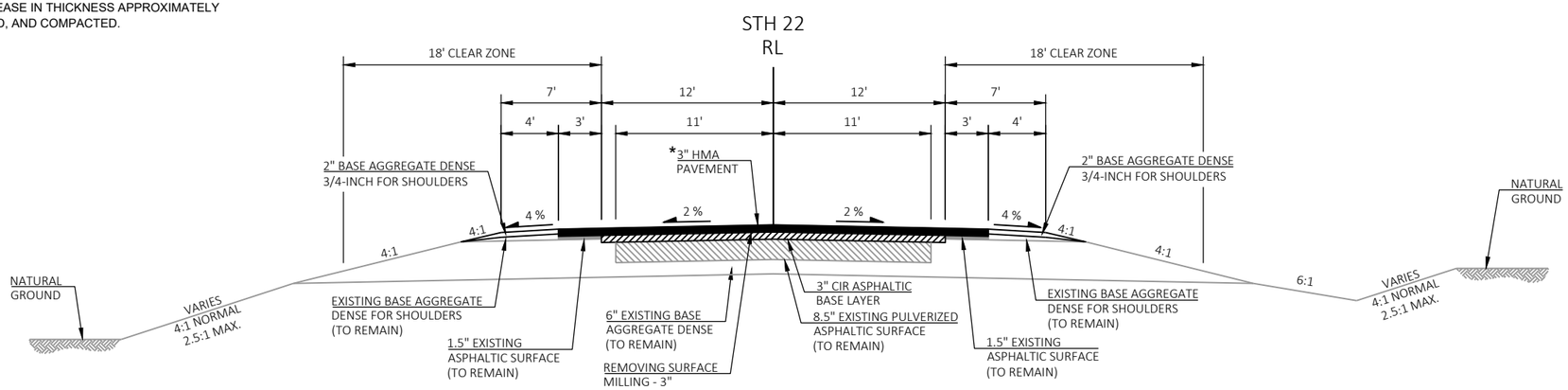
STA 378+33.4, LT - STA 383+33.4, LT



FINISHED TYPICAL SECTION FOR STH 22

STA 377+13.4 - STA 385+00

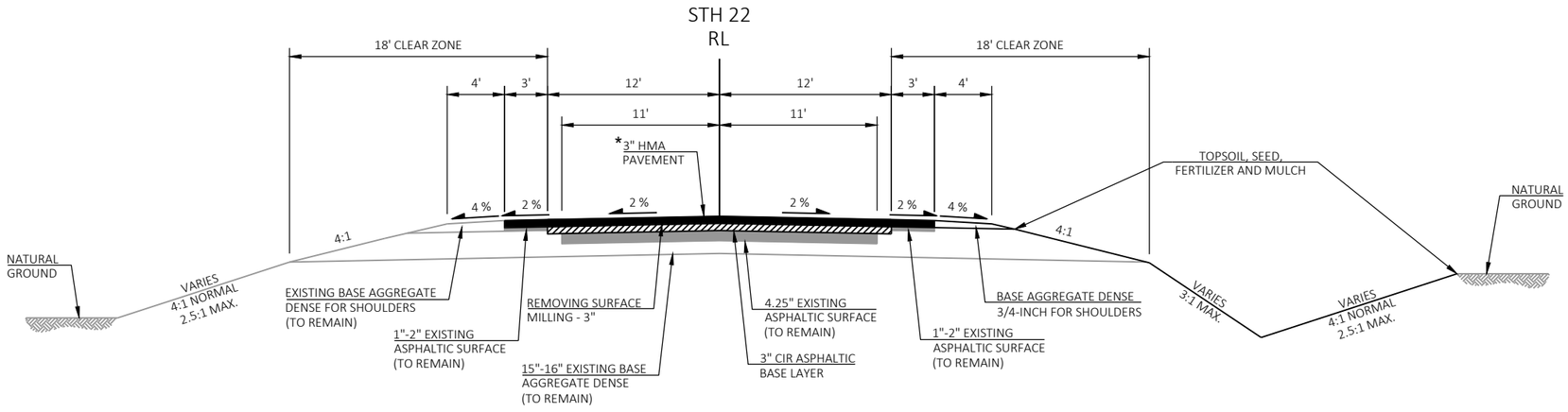
NOTE: CIR MATERIAL CAN BE EXPECTED TO INCREASE IN THICKNESS APPROXIMATELY 10 TO 15 PERCENT ONCE PROCESSED, STABILIZED, AND COMPACTED.



FINISHED TYPICAL SECTION FOR STH 22

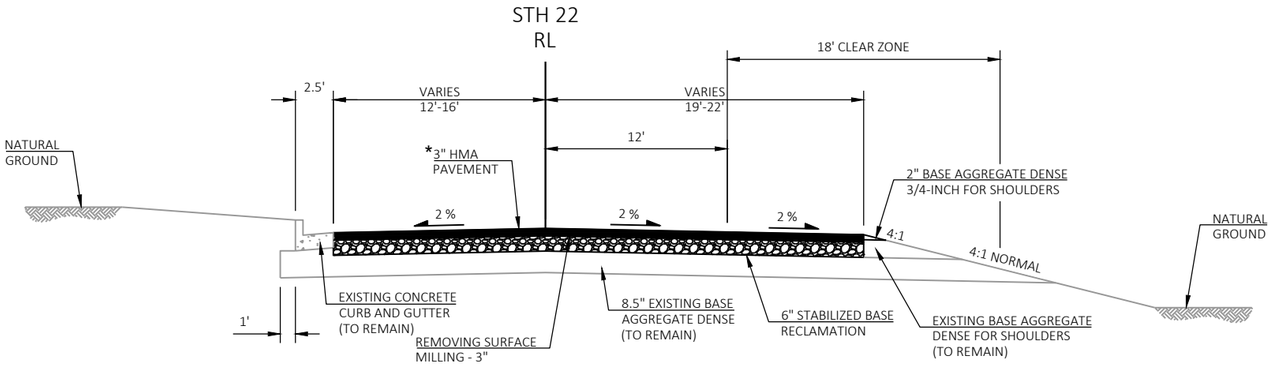
STA 396+00 - STA 459+92.4

PAVEMENT LAYERS	
* 3" HMA PAVEMENT	1.25" (5 MT 58-34 S) UPPER LAYER 1.75" (4 MT 58-28 S) LOWER LAYER



FINISHED TYPICAL SECTION FOR STH 22

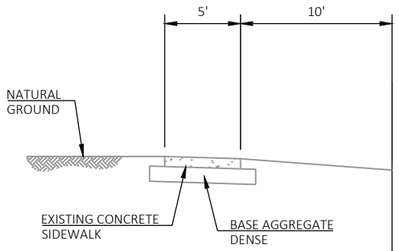
STA 459+92.4 - STA 465+92.4



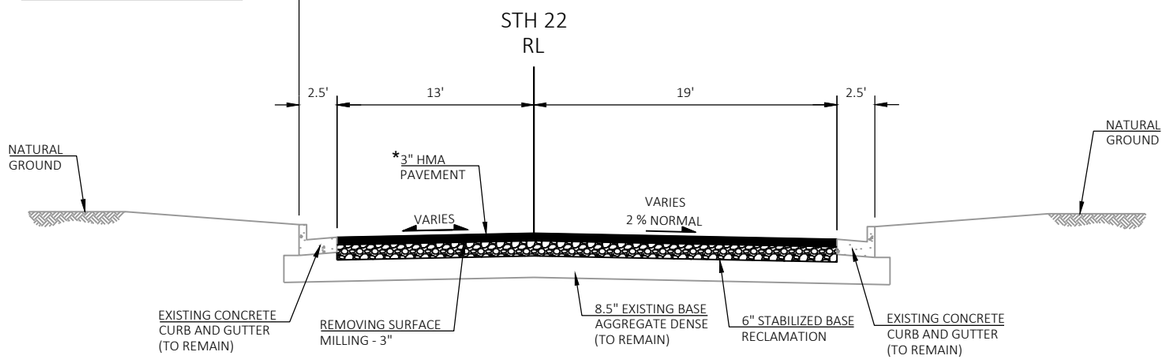
FINISHED TYPICAL SECTION FOR STH 22

STA 592+95 - STA 597+97

PAVEMENT LAYERS	
* 3" HMA PAVEMENT	1.25" (5 MT 58-34 S) UPPER LAYER 1.75" (4 MT 58-28 S) LOWER LAYER



STA 599+23 LT - STA 603+57 LT

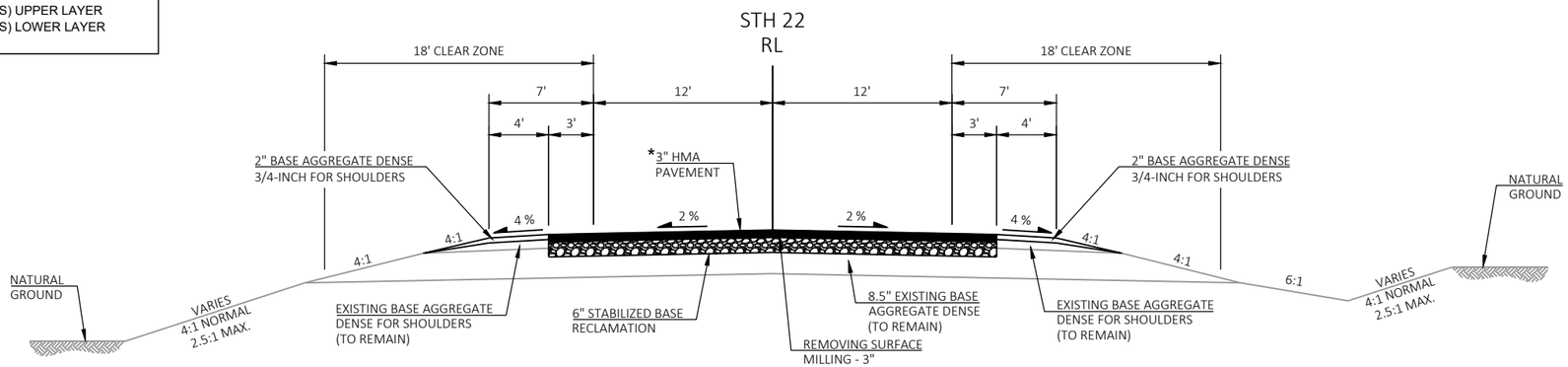


FINISHED TYPICAL SECTION FOR STH 22

STA 597+97 - STA 617+50

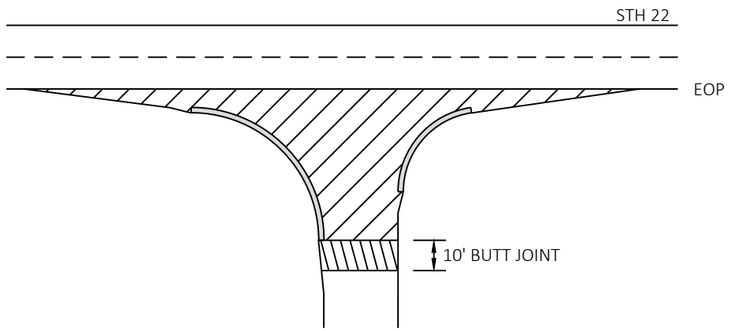
2

PAVEMENT LAYERS	
* 3" HMA PAVEMENT	1.25" (5 MT 58-34 S) UPPER LAYER 1.75" (4 MT 58-28 S) LOWER LAYER



FINISHED TYPICAL SECTION FOR STH 22

STA 617+50- STA 633+50



REMOVING ASPHALTIC SURFACE MILLING

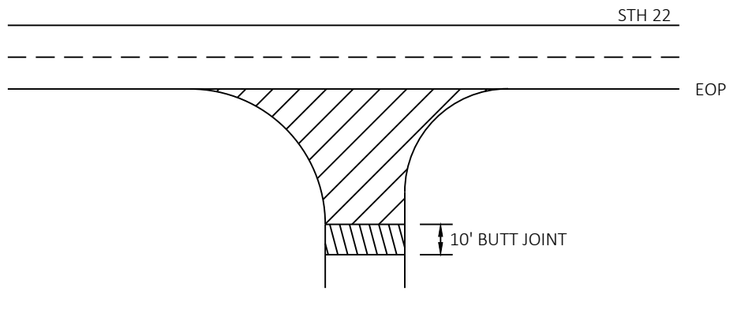
REMOVING ASPHALTIC SURFACE BUTT JOINTS
SEE BUTT JOINT DETAIL

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

SIDE ROADS

WITH CURB AND GUTTER

ASH CT	STH 117
ASH CIR	FREEBORN ST
CEDAR LN	W BAEHR ST
CEDAR AVE	N WARRINGTON AVE
HILLCREST DR	CTH R
SANDY DR	KORTH RD
SHADY LN	CHEESE FACTORY RD
LABUTZKE DR	FREEBORN RD
RESORT RD	CTH V
LAKEVIEW DR	PENSAUKEE RD
BERGS RD	OLD HWY 22
MEADOW RD	ROUBAL RD
SWAN ACRE DR	MOSLING RD
OAKCREST DR	CTH C
BUSS DR	LINDQUIST RD
CRYSTAL DR	PULCIFER RD
	RIVER LN



REMOVING ASPHALTIC SURFACE MILLING

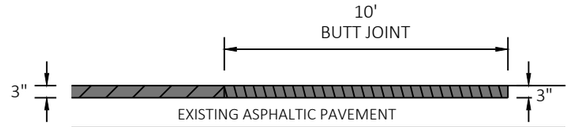
REMOVING ASPHALTIC SURFACE BUTT JOINTS
SEE BUTT JOINT DETAIL

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

SIDE ROADS

WITHOUT CURB AND GUTTER

ASH CIR
CEDAR LN
BISCHOFF BAY LN
COUNTRY LN
E CRYSTAL ST
W LAKE DR
PARK ST
LAKECREST DR
ROD'S LN
TR027 RD
RIVER BEND LN
ZASTROW RD



HMA PAVEMENT

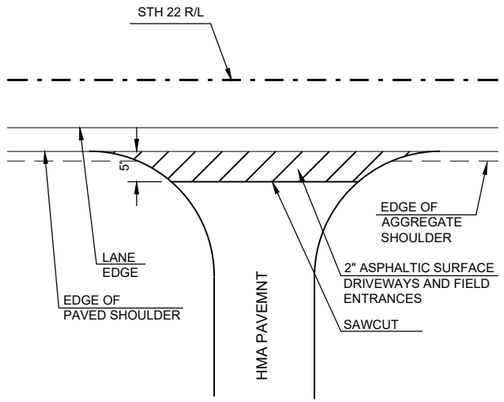
REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINTS

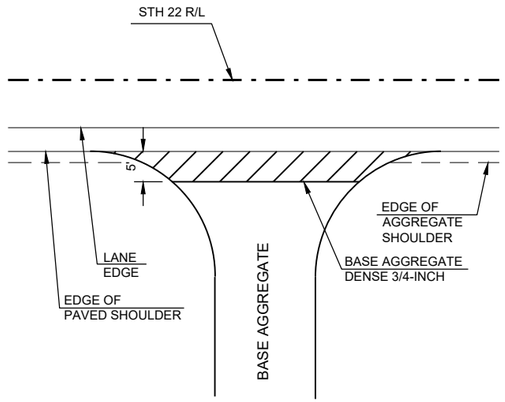
BUTT JOINT

MAINLINE AND SIDE ROADS

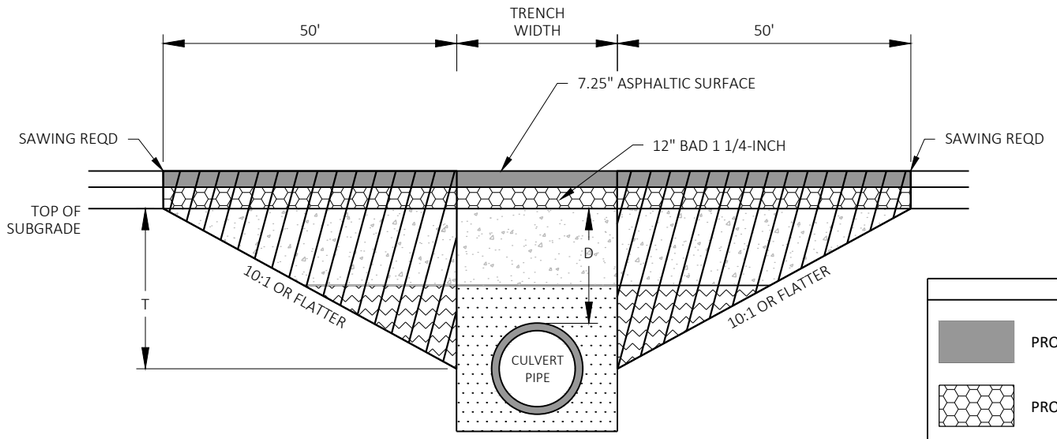
2



PRIVATE ENTRANCE HMA DETAIL

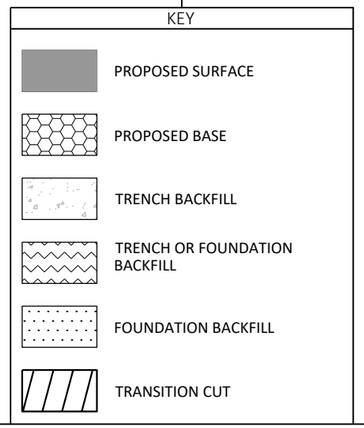


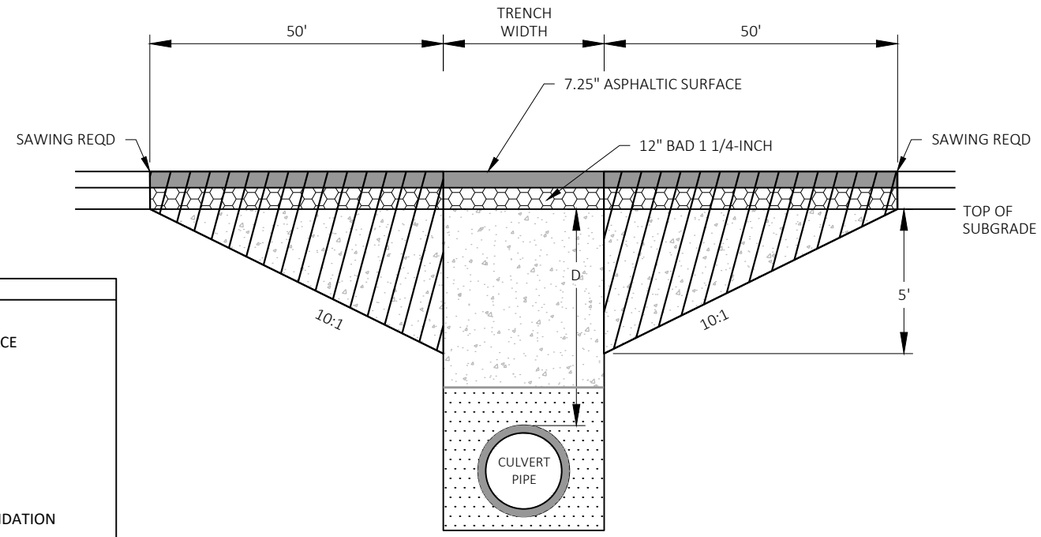
PRIVATE ENTRANCE BASE AGGREGATE DETAIL



DEPTH D < 6 FT

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





DEPTH D ≥ 6 FT

2

NOTES

TRANSITION CUT IS PAID AS EXCAVATION COMMON.

TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT.

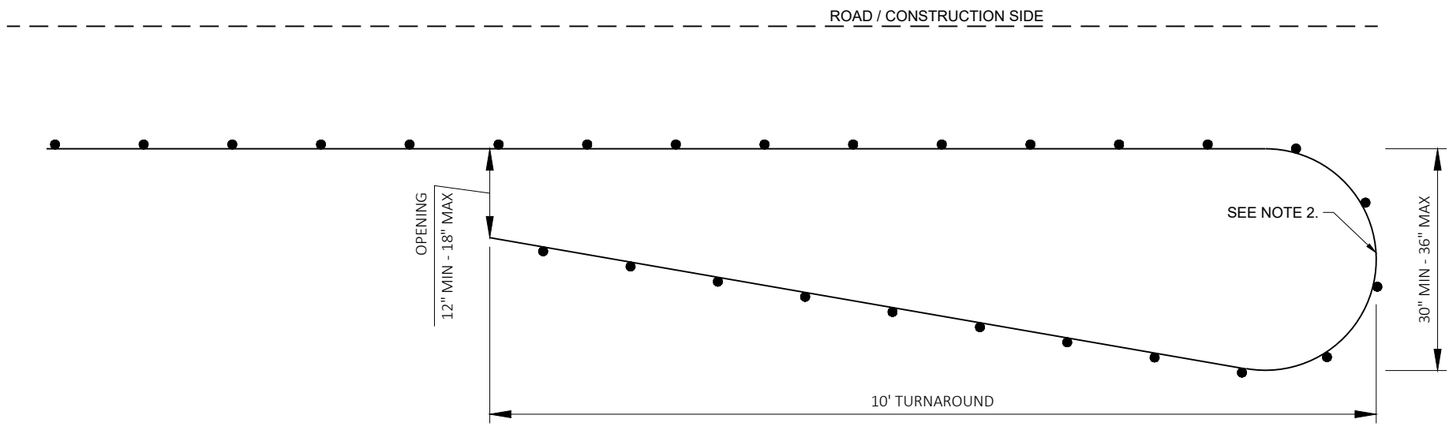
BACKFILL THE TRANSITION CUT AREAS WITH FOUNDATION AND TRENCH BACKFILL AS SPECIFIED IN STANDARD SPEC 520.

PERFORM CULVERT PIPE INSTALLATION BEFORE MILLING, CIR OPERATIONS AND PAVING.

PLACE ASPHALTIC SURFACE AFTER CULVERT PIPE INSTALLATION AND BEFORE MILLING, CIR OPERATIONS AND PAVING.

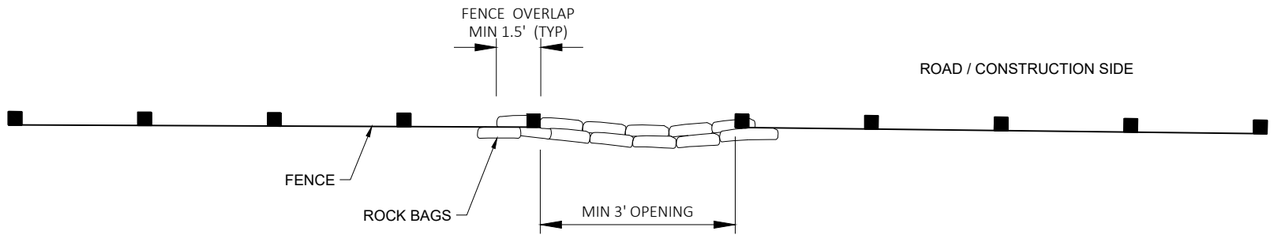
CULVERT PIPE TRANSITION

ROUTE	STA (CL)	DEPTH D (FT)	PIPE DIA (IN)	REMARKS
STH 22	221+69	3.2	30	C 58-022-5774
STH 22	235+94	3.9	36	C 58-022-5775
STH 22	271+89	1.7	34X53	C 58-022-5777 A
STH 22	271+97	1.7	34X53	C 58-022-5777 B
STH 22	305+69	1.3	29X45	C 58-022-5779 A
STH 22	305+77	1.3	29X45	C 58-022-5779 B
STH 22	379+83	11.5	24	C 58-022-5783
STH 22	402+70	2.0	24	C 58-022-5786
STH 22	425+32	0.9	24	C 58-022-5787
STH 22	443+42	2.9	24	C 58-022-5788
STH 22	451+56	1.9	36	C 58-022-5790
STH 22	459+38	5.2	30	C 58-022-5791
STH 22	496+81	6.3	24	C 58-022-5793
STH 22	519+54	3.6	30	C 58-022-5798
STH 22	572+55	8.0	36	C 58-022-5801
STH 22	577+37	2.1	36	C 58-022-5802
STH 22	590+47	10.9	54	C 58-022-7482

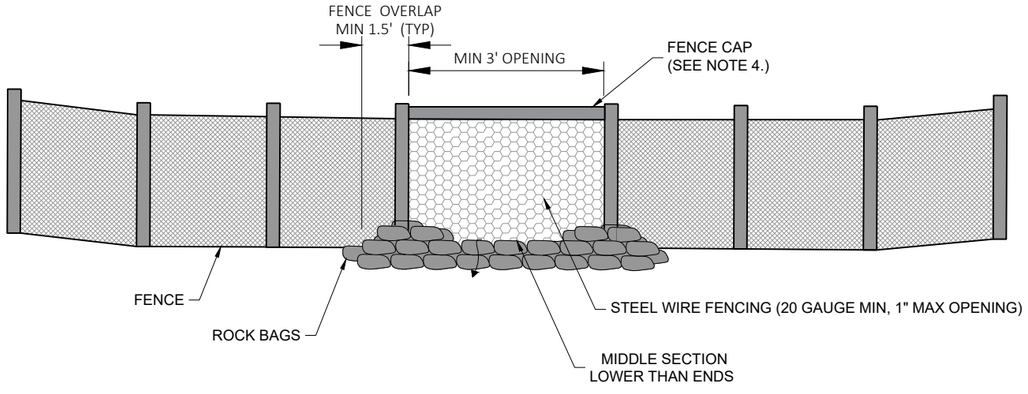


PLAN VIEW

CLIMBING TURTLE EXCLUSION FENCE DETAIL



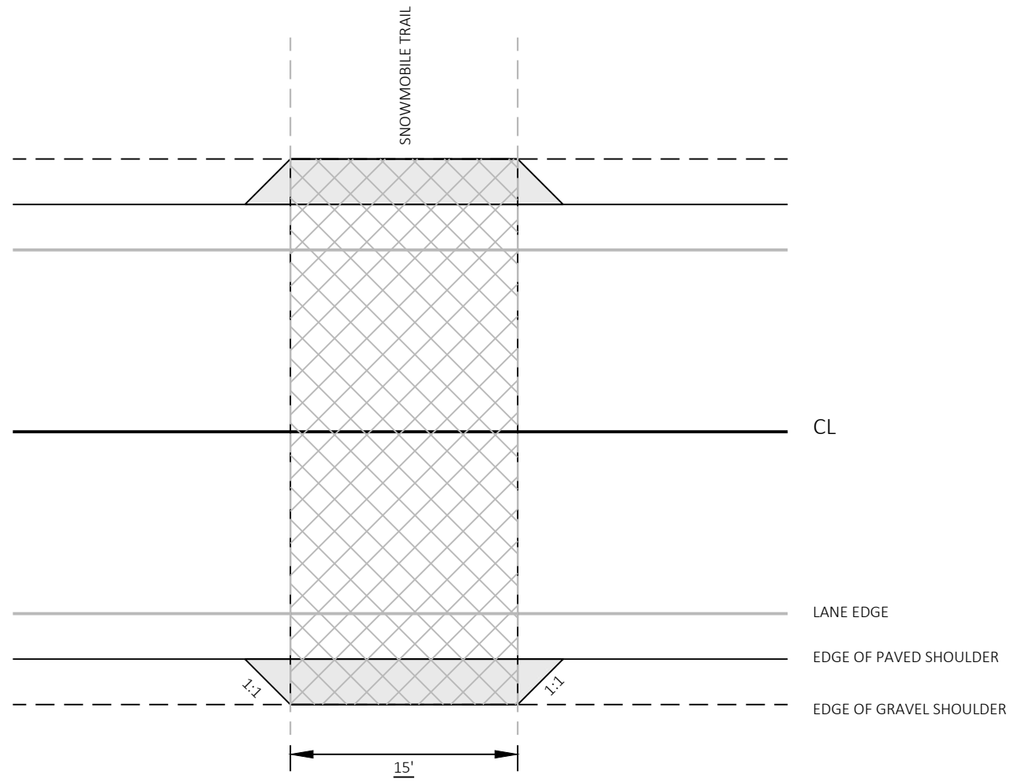
PLAN VIEW



FRONT VIEW

CLIMBING TURTLE FENCE RELIEF DETAIL

2



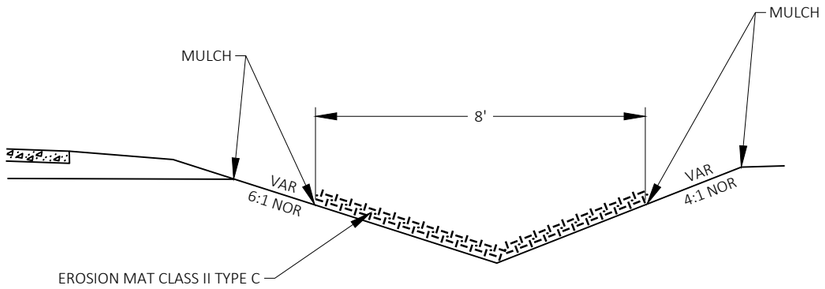
PROTECTIVE THERMOPLASTIC COATING AT SNOWMOBILE TRAIL CROSSING

HMA PAVEMENT WIDENING 4-INCHES

NOTE: PREPARATION FOR PAVEMENT WIDENING FALLS UNDER
PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

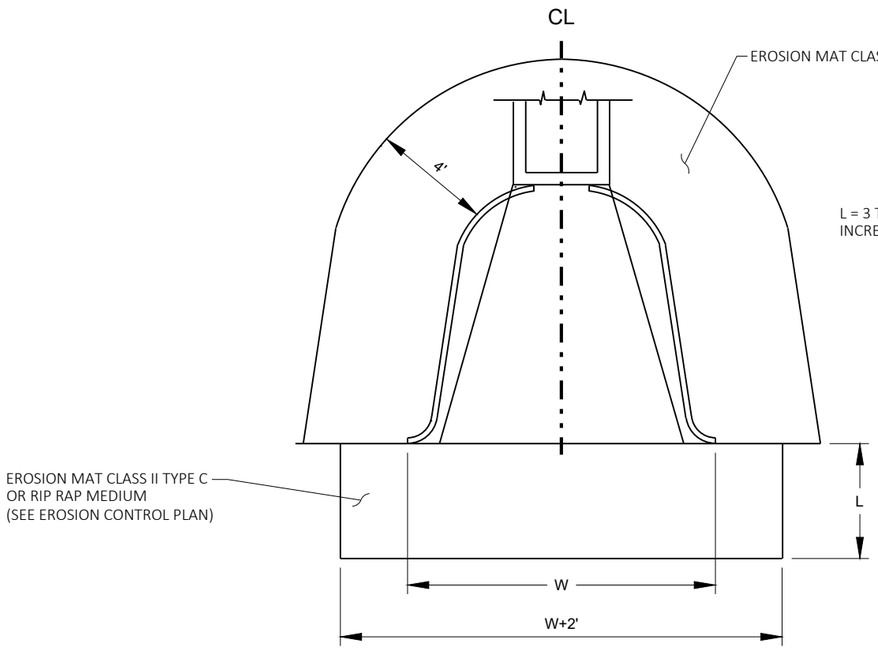
SNOWMOBILE TRAIL CROSSING
WITH FULL WIDTH SHOULDERS AND PROTECTIVE COATING

STA 49+63
STA 285+25
STA 489+00
STA 566+50
STA 597+25
STA 618+00

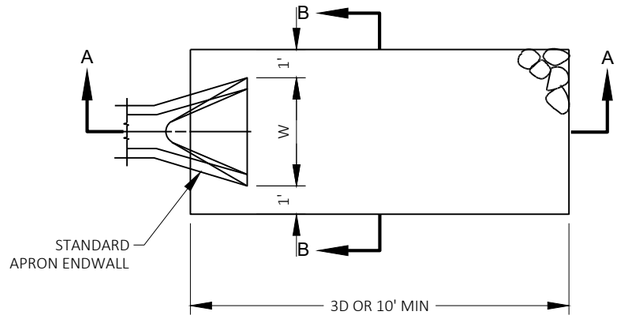


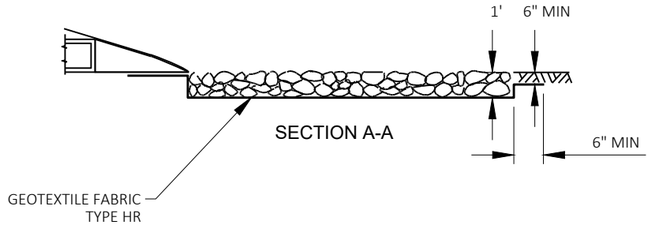
EROSION MAT DITCH

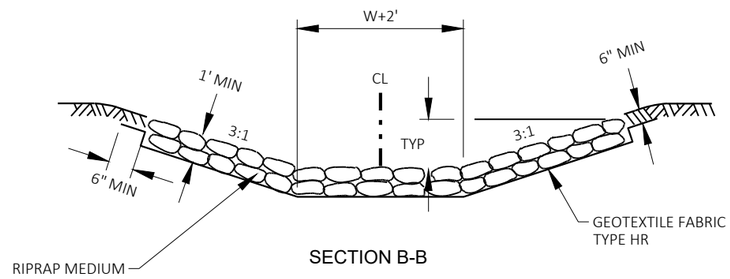
SEE EROSION CONTROL
PLANS FOR LOCATIONS



EROSION CONTROL AT PIPE ENDS







RIP RAP AND GEOTEXTILE

(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)

2

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

WE ENERGIES - ELECTRIC

CP #900
IRON PIPE W/CAP
STA 157+23.74, 21.29' LT
Y = 276072.270
X = 888200.744

FRONTIER COMMUNICATIONS

EXISTING R/W

BM #201

REMOVE EXISTING GUARDRAIL TERMINAL

SLOPE INTERCEPTS

EXISTING R/W

STA 159+45.4
18.2' LT

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL - 50'

STA 159+95.3
20.8' LT

15:1

10:1

STA 160+85.3
21.1' LT

3:1

4"

MATCH LINE STA 162+00

156 STH 22 157 158 159 160 161

STA 159+25.0
0.0' LT

STA 159+49.7
17.0' RT

STA 159+99.6
20.5' RT

STA 160+89.6
22.3' RT

REMOVE EXISTING GUARDRAIL TERMINAL

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL - 50'

SLOPE INTERCEPTS

EXISTING R/W

EXISTING R/W

EXISTING R/W

FRONTIER COMMUNICATIONS

CAUTION

WE ENERGIES - GAS

WELL

SEPTIC

A/C

MH

SLAB

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 20	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-pd

PLOT DATE : 5/16/2025 11:03 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

MATCH LINE STA 162+00

MATCH LINE STA 168+00

STH 22

CHANNEL DR

RESORT RD

FRONTAGE RD

EXISTING R/W

WE ENERGIES - ELECTRIC

FRONTIER COMMUNICATIONS

SLOPE INTERCEPTS

CONSTRUCTION LIMITS STA 10+93.8

CONCRETE SURFACE DRAIN FLUME REQ'D.

CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D, REQ'D.

STA 10+51.1
1-CP 18-INCH REQ'D.

PROPOSED INVERT
ELEV.= 809.91

STA 10+64.8, 33.2' RT
APRON ENDWALLS FOR
CP 18-INCH REQ'D.

STA 10+46.3
1-REMOVING SMALL PIPE CULVERTS

PROPOSED INVERT
ELEV.= 809.94

STA 10+35.7, 41.2' LT
APRON ENDWALLS FOR
CP 18-INCH REQ'D.

STA 165+98.7
84.0' LT
58'R

STA 167+08.6
49.0' LT
23'R

STA 166+45.21 STH 22 =
STA 10+00.00 RESORT RD
Y = 276407.863
X = 889059.198

(REM.)

105' TAPER

70' TAPER

STA 163+75.0
18.0' LT

STA 165+29.1
18.0' LT

STA 163+75.0
6.0' LT

STA 162+25.0
6.0' RT

STA 162+25.0
18.0' RT

STA 164+33.1
18.0' RT

STA 167+47.7
17.5' RT

STA 9+31.4, 46.6' LT
APRON ENDWALLS FOR
CPRCHE 29X45-INCH REQ'D.

STA 165+38.6
69.0' RT
43'R

PROPOSED INVERT
ELEV.= 809.90

CP #901
IRON PIPE W/CAP
STA 165+70.80, 43.75' RT
Y = 276338.806
X = 889007.406

CAUTION

WE ENERGIES - GAS

STA 166+31.21 STH 22 =
STA 10+00.00 RESORT RD
Y = 276402.463
X = 889046.275

CONSTRUCTION LIMITS
STA 8+21.3

R/W LINE

TLE LINE

STA 9+68.7, 41.8' RT
APRON ENDWALLS FOR
CPRCHE 29X45-INCH REQ'D.

STA 166+78.1
84.0' RT
58'R

STA 9+56.5
1-REMOVING SMALL PIPE CULVERTS

STA 9+51.1
1-CPRCHE CLASS IV 29X45-INCH REQ'D.

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 21	E

2

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

N

L1 A/C

SEPTIC

SEPTIC

W

EXISTING R/W

EXISTING R/W

WE ENERGIES - ELECTRIC

FRONTAGE RD

SLOPE INTERCEPTS

FRONTIER COMMUNICATIONS

CAUTION

WE ENERGIES - GAS

MATCH LINE STA 168+00

STA 168+14.0
16.3' LT

3'

4'

12'

STA 170+50.0
0.0'

168

STH 22

169

170

171

172

173

174

SLOPE INTERCEPTS

EXISTING R/W

FRONTIER COMMUNICATIONS

EXISTING R/W

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 22	E

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

N

STA 200+44.5, 42.7' LT
APRON ENDWALLS FOR
CP 18-INCH REQ'D.

MISSING POST. SEE SDD "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL" FOR ADDITIONAL GUIDANCE

MGS GUARDRAIL
SHORT RADIUS - 8'
ARC LENGTH - 12.5'
2 CRT POSTS

PROPOSED INVERT
ELEV.= 811.30

MGS GUARDRAIL SHORT
RADIUS TERMINAL

STA200+72.5, 42.1' LT
1-CP 18-INCH REQ'D.

STA200+73.4, 42.5' LT
1-REMOVING SMALL PIPE CULVERTS

STA201+00.5, 41.5' LT
APRON ENDWALLS FOR
CP 18-INCH REQ'D.

PROPOSED INVERT
ELEV.= 811.37

WE ENERGIES - ELECTRIC

FRONTIER COMMUNICATIONS

SLOPE
INTERCEPTS

EXISTING R/W

EXISTING R/W

REMOVE EXISTING GUARDRAIL

MGS GUARDRAIL
TERMINAL EAT - 53.125'

MGS GUARDRAIL 3 - 50'

4'

18" CP

STA 197+70.1
19.0' LT

15:1

10:1

10:1

STA 200+15.7
20.5' LT

STA 200+40.7
20.5' LT

STH 22

197

198

199

200

201

202

POST #1
STA 199+12.6
22.6' LT

POST #5
STA 199+37.6
21.5' LT

POST #9
STA 199+62.6
20.5' LT

STA 199+65.7
20.5' LT

POST #1
STA 198+68.0
22.4' RT

POST #5
STA 198+93.0
21.5' RT

POST #9
STA 199+18.0
20.5' RT

STA 199+21.1
20.5' RT

STA 199+96.1
20.5' RT

POST #9
STA 199+99.2
20.5' RT

POST #5
STA 200+24.2
21.5' RT

POST #1
STA 200+49.2
22.6' RT

STA 197+27.4
19.0' RT

10:1

15:1

10:1

15:1

STA 201+94.3
19.0' RT

4'

EXISTING R/W

EXISTING R/W

FRONTIER COMMUNICATIONS

SLOPE
INTERCEPTS

MGS GUARDRAIL
TERMINAL EAT - 53.125'

MGS GUARDRAIL
TERMINAL EAT - 53.125'

REMOVE EXISTING GUARDRAIL

MGS GUARDRAIL 3 - 75'

PROPOSED INVERT
ELEV.= 811.4

STA201+73.0, 44.5' RT
APRON ENDWALLS FOR
CP 18-INCH REQ'D.

STA 200+61.1, 42.2' RT
1-REMOVING SMALL PIPE CULVERTS

STA 200+61.1, 45.2' RT
1-CP 18-INCH REQ'D.

PROPOSED INVERT
ELEV.= 811.3

MISSING POST. SEE SDD "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL" FOR ADDITIONAL GUIDANCE

STA 200+49.1, 46.0' RT
APRON ENDWALLS FOR
CP 18-INCH REQ'D.

GUARDRAIL DETAIL STH 22
CULVERT PIPE NO. C-58-0022
STA 197+60.3 - STA 201+76.6

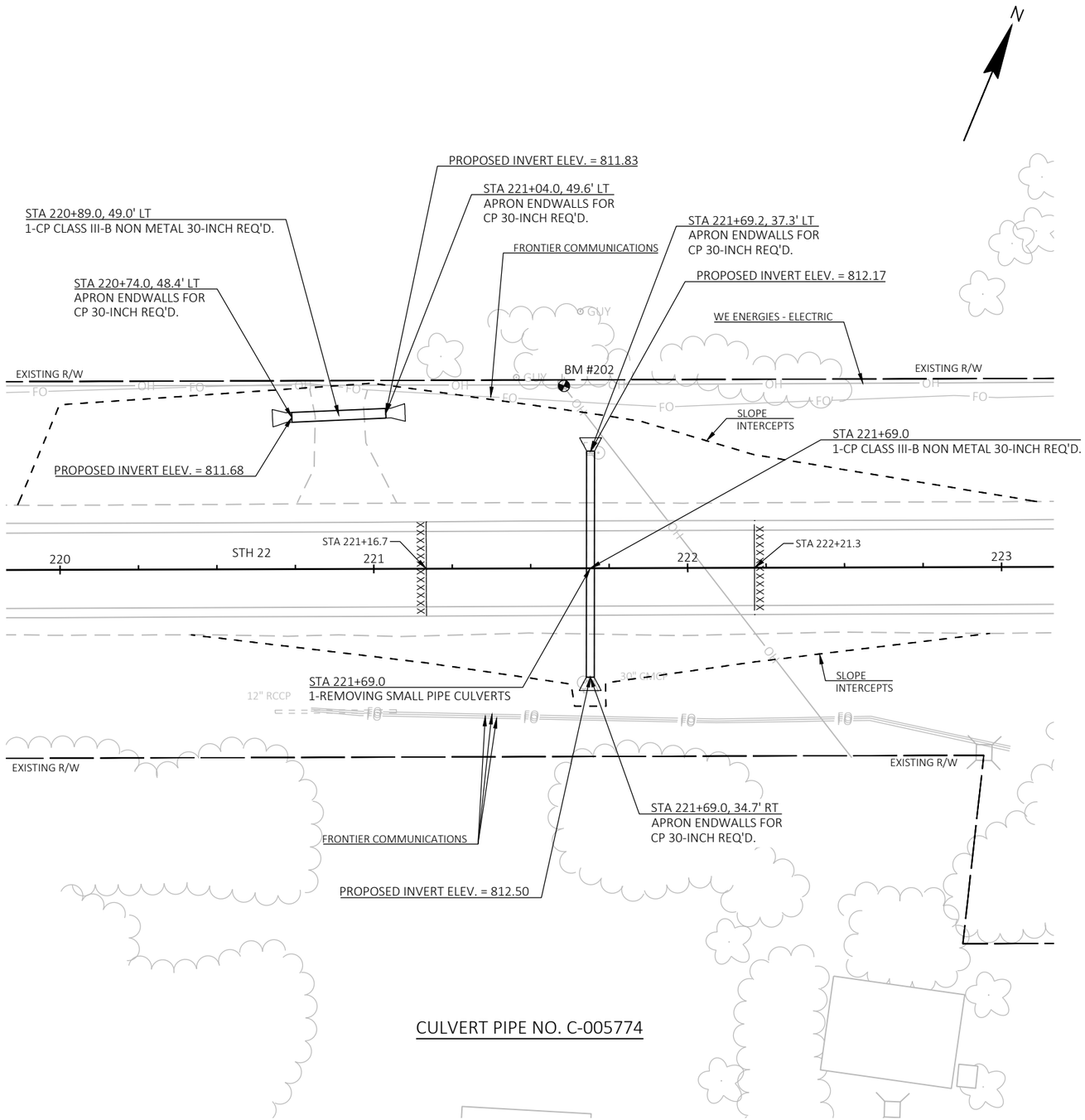
PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 23	E

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED



CULVERT PIPE NO. C-005774

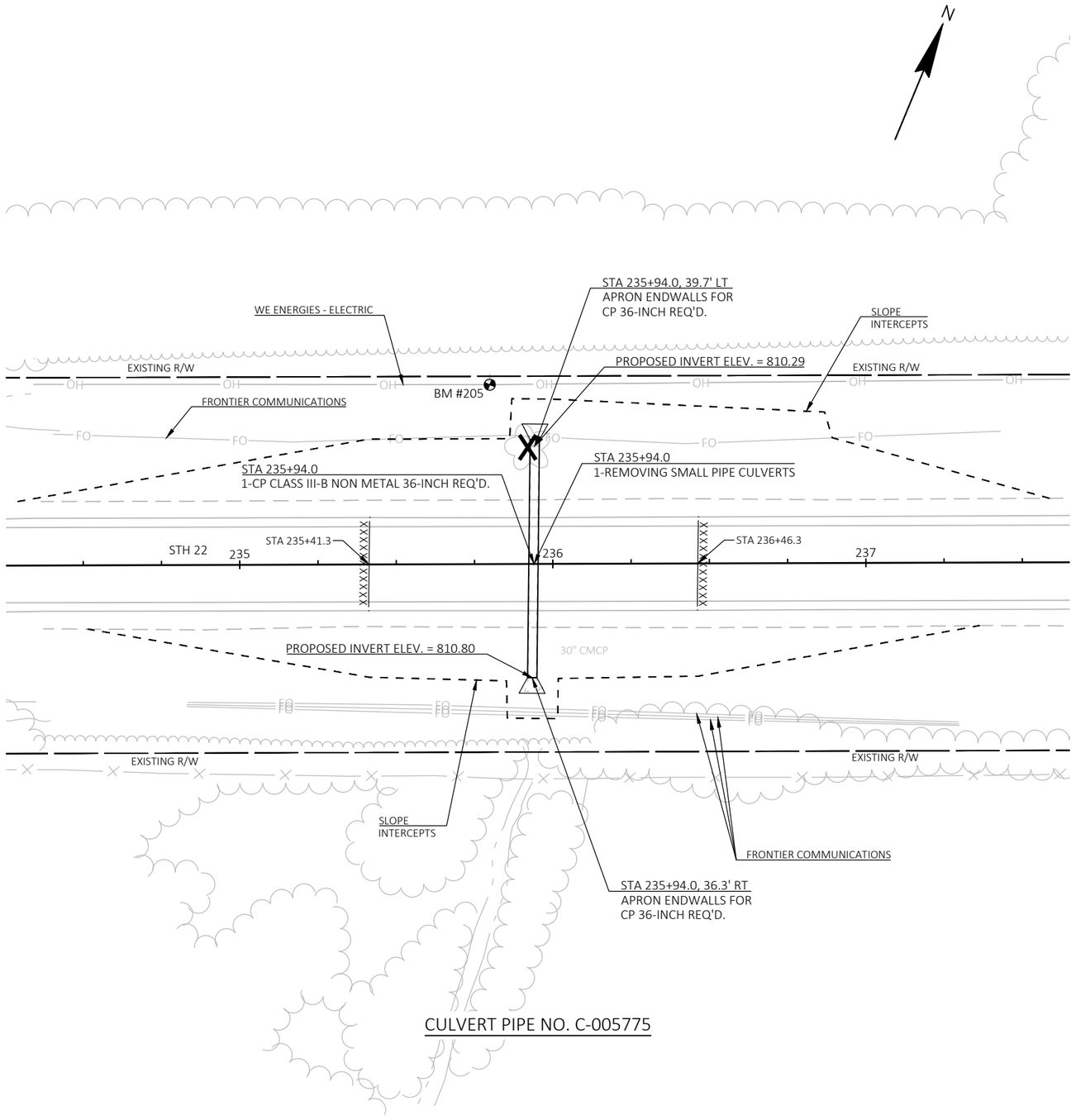
PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 24	E

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED



CULVERT PIPE NO. C-005775

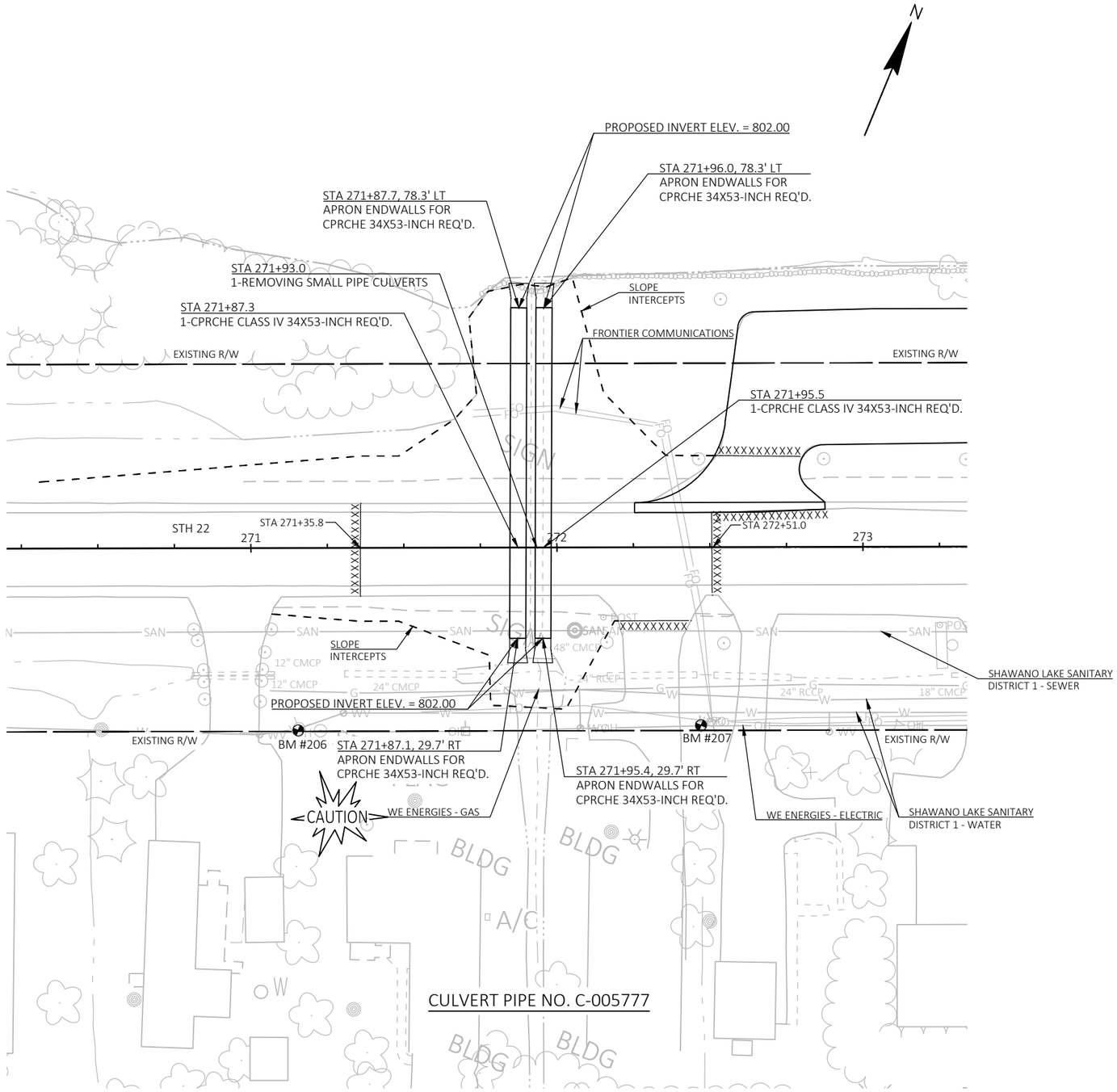
PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 25	E

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED



PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 26	E

2

LEGEND

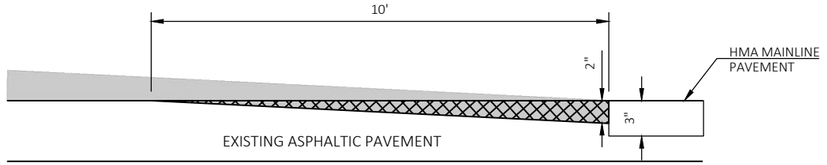
XXXXXX SAW CUTS

X TREE TO BE GRUBBED

LEGEND

REMOVING ASPHALTIC SURFACE BUTT JOINTS

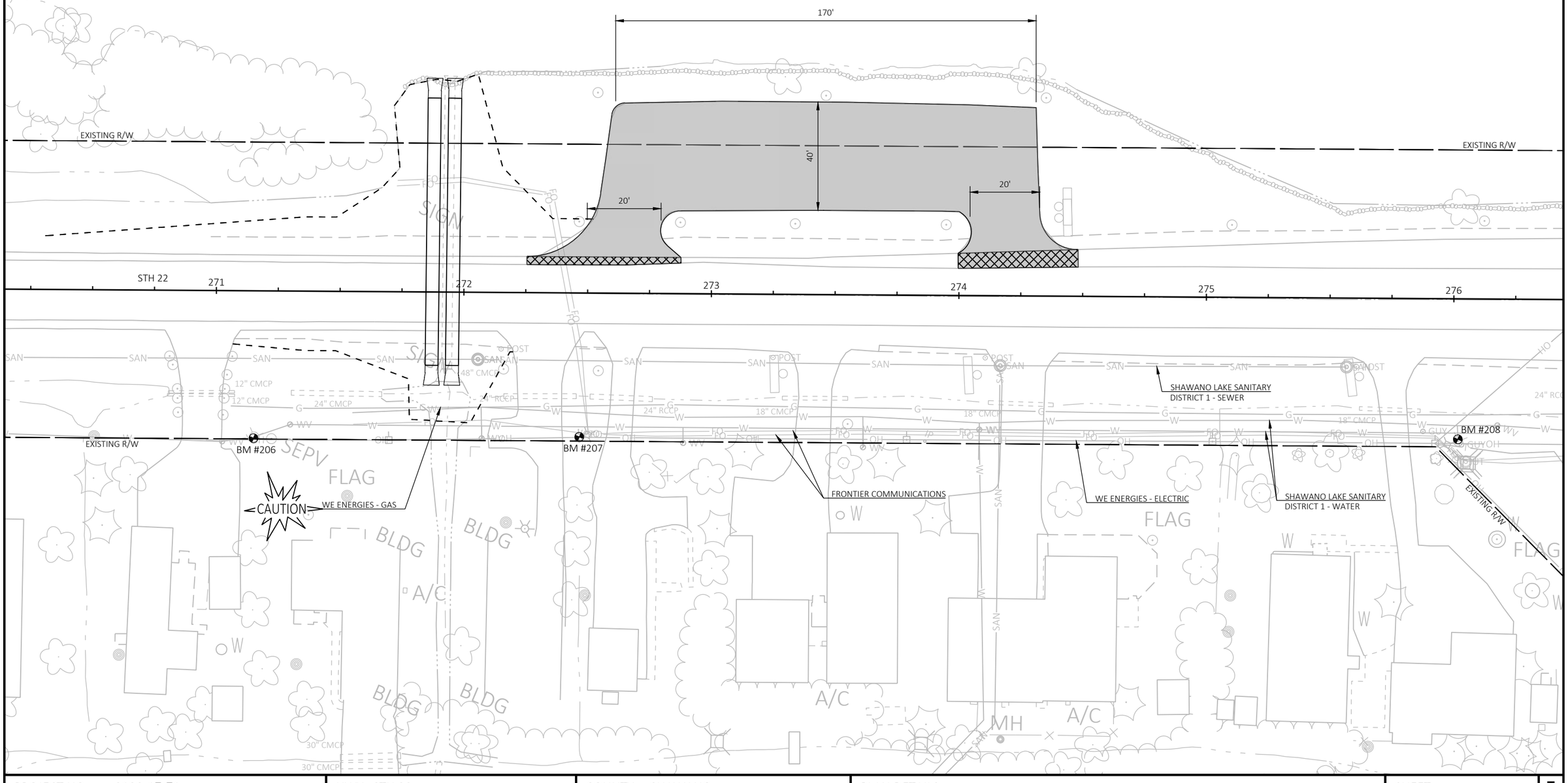
2" HMA PAVEMENT



PROFILE TRANSITION

N

2



PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 27	E

LEGEND

XXXXXX SAW CUTS

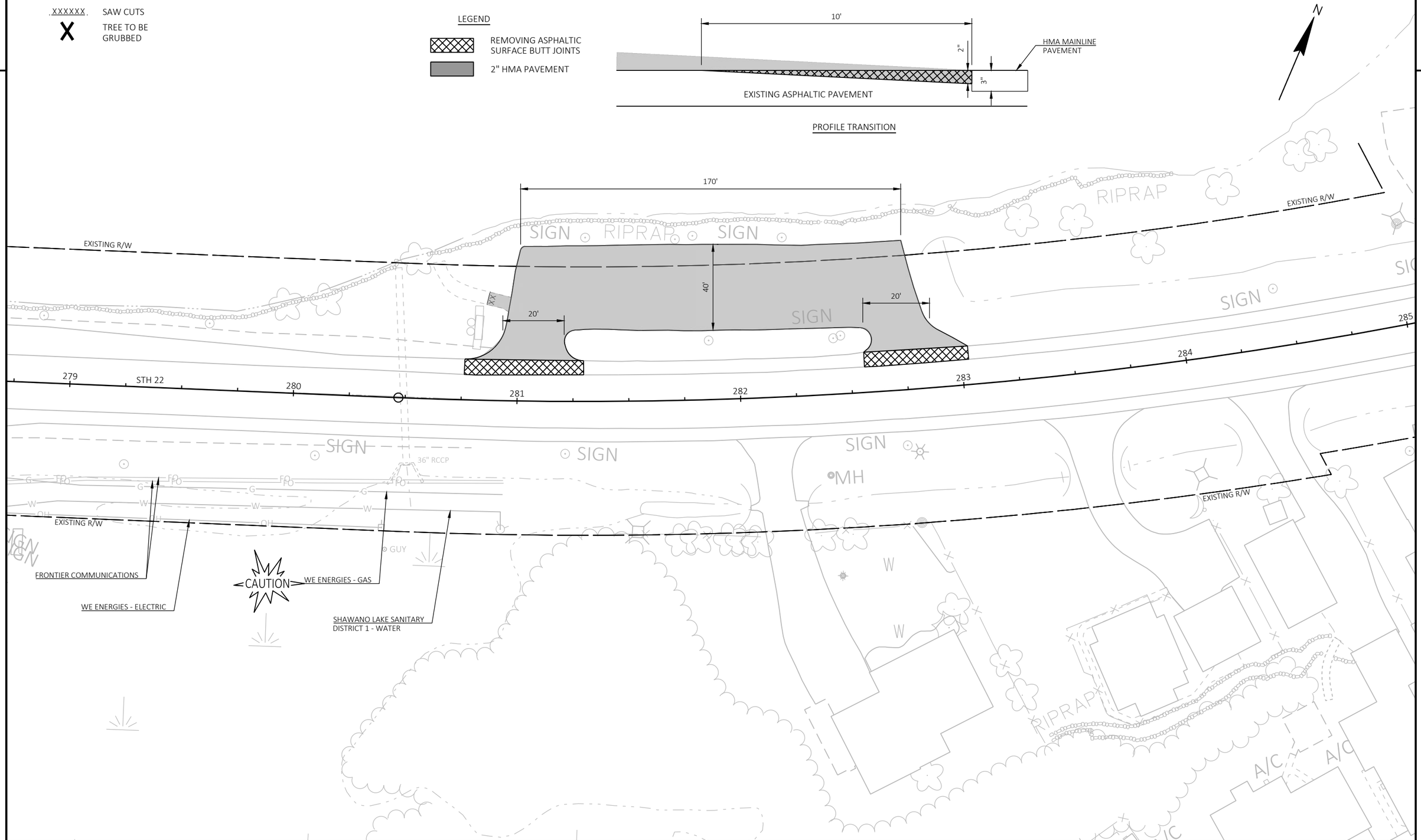
X TREE TO BE GRUBBED

LEGEND

REMOVING ASPHALTIC SURFACE BUTT JOINTS

2" HMA PAVEMENT

PROFILE TRANSITION



PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 28	E

2

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

N

SLOPE INTERCEPTS

MGS GUARDRAIL TERMINAL EAT - 53.125'

MGS GUARDRAIL 3 L - 112.5'

MGS GUARDRAIL TERMINAL EAT - 53.125'

EXISTING R/W

REMOVE EXISTING GUARDRAIL

MOVING TYPE II SIGNS AND SMALL SIGN SUPPORTS

STA 293+40.7
20.0' LT

15:1

10:1

SLOPE INTERCEPTS

STA 296+79.5
22.0' LT

POST #1 STA 294+15.7 19.0' LT

POST #5 STA 294+40.7 18.0' LT

POST #9 STA 294+65.7 17.0' LT

STA 294+68.9 17.0' LT

STA 295+81.4 17.0' LT

POST #9 STA 295+84.5 17.0' LT

POST #5 STA 296+09.5 18.0' LT

POST #1 STA 296+34.5 19.0' LT

292 STH 22 293 294 295 296 297 298

POST #1 STA 294+21.4 19.0' RT

POST #5 STA 294+46.4 18.0' RT

POST #9 STA 294+71.4 17.0' RT

STA 294+74.5 17.0' RT

STA 295+87.0 17.0' RT

POST #9 STA 295+90.1 17.0' RT

POST #5 STA 296+15.1 18.0' RT

POST #1 STA 296+40.1 19.0' RT

GAP CIR - SEE C-58-0027 OVERLAY PLAN

MOVING TYPE II SIGNS AND SMALL SIGN SUPPORTS

STA 293+46.4
20.0' RT

EXISTING R/W

WE ENERGIES - ELECTRIC

REMOVE DRIVEWAY

REMOVE DRIVEWAY

REMOVE EXISTING GUARDRAIL

SHAWANO LAKE SANITARY DISTRICT 1 - WATER

STA 294+05.0
1-REMOVING SMALL PIPE CULVERTS

SLOPE INTERCEPTS

STA 294+58.0
1-REMOVING SMALL PIPE CULVERTS

MGS GUARDRAIL TERMINAL EAT - 53.125'

MGS GUARDRAIL 3 L - 112.5'

MGS GUARDRAIL TERMINAL EAT - 53.125'

SLOPE INTERCEPTS

18" CMCP (REMAIN)

18" RCCP (REMAIN)

EXISTING R/W

SIGN

SLAB

MH

GUARDRAIL DETAIL STH 22
CULVERT PIPE NO. C-58-0027
STA 293+40.7 - STA 296+79.5

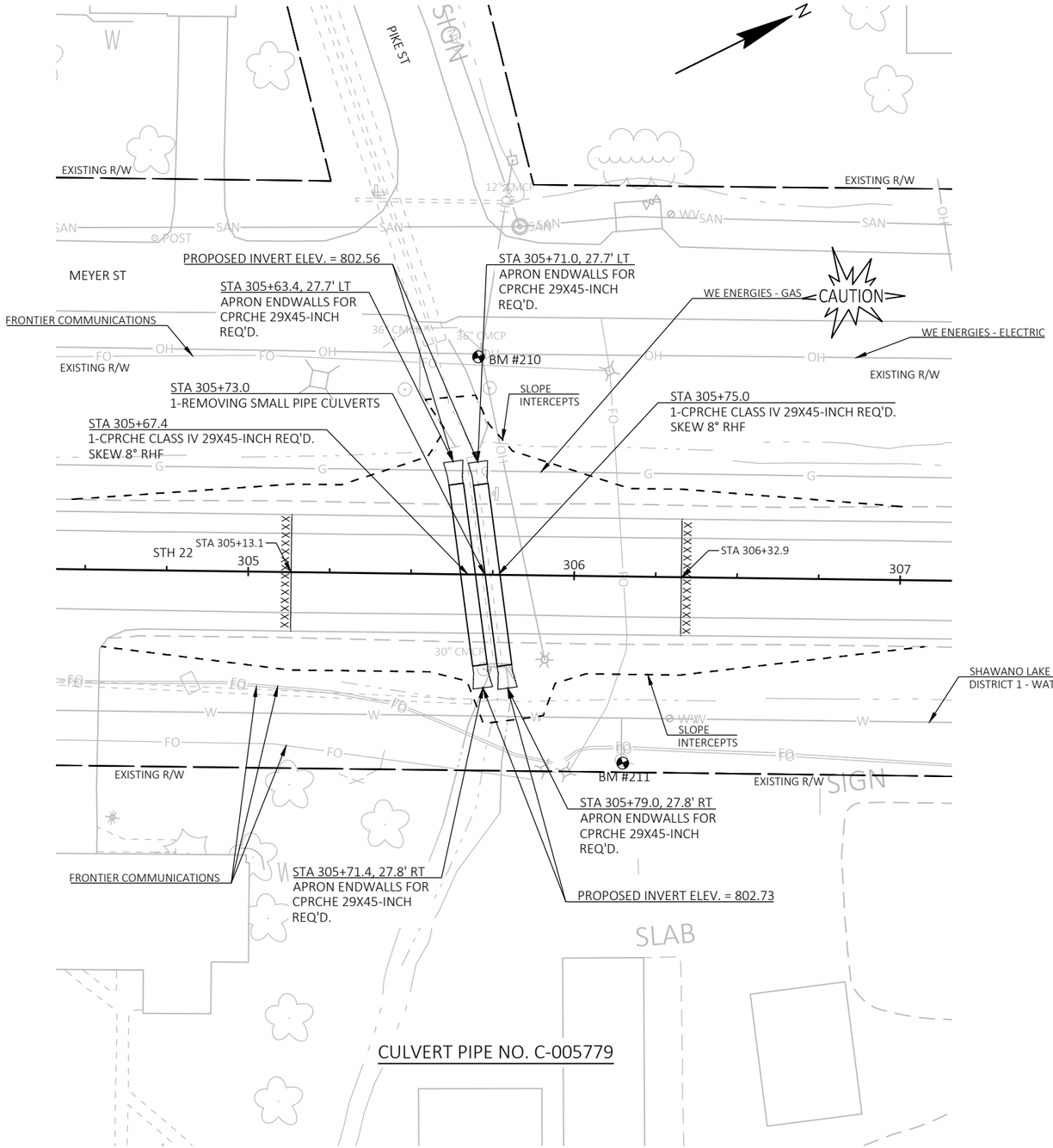
PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 29	E

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED



2

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 30	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021211-pd

PLOT DATE : 5/16/2025 11:05 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

EXISTING R/W

N MEYER ST

WE ENERGIES - ELECTRIC

FRONTIER COMMUNICATIONS

WE ENERGIES - GAS

CAUTION

SLOPE INTERCEPTS

MOVING TYPE II SIGNS AND SMALL SIGN SUPPORTS

STA 312+37.2
0.0'

STA 314+96.6
19.7' LT

50' TAPER

STA 314+56.8
18.5' RT

60' TAPER

MOVING TYPE II SIGNS AND SMALL SIGN SUPPORTS

SLOPE INTERCEPTS

SHAWANO LAKE SANITARY DISTRICT 1 - WATER

FRONTIER COMMUNICATIONS

STA 315+89.17 STH 22 =
STA 10+00.00 N WARRINGTON AVE
Y = 283658.571
X = 901537.716

CONSTRUCTION LIMITS
STA 9+45.8

W BAEHR ST

STA 316+94.7
20.0' LT

60' TAPER

STA 316+88.6
20.0' RT

50' TAPER

STA 315+89.17 STH 22 =
STA 10+00.00 W BAEHR ST
Y = 283658.571
X = 901537.716

CONSTRUCTION LIMITS
STA 10+68.1

GOLF VIEW RD

N WARRINGTON AVE

LENKE ST

PT: 11+72.95

EXISTING R/W

MATCH LINE STA 317+00

STH 22

SLAB

FLAG

SIGN

MH

GUY

30" CMCP

18" CMCP

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 31	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021212-pd

PLOT DATE : 5/16/2025 11:06 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

MATCH LINE STA 317+00

MATCH LINE STA 323+00

EXISTING R/W

N MEYER ST

CAUTION

WE ENERGIES - GAS

FRONTIER COMMUNICATIONS

WE ENERGIES - ELECTRIC

MOVING TYPE II SIGNS AND SMALL SIGN SUPPORTS

SLOPE INTERCEPTS

STA 317+96.3
8.0' LT

STA 319+46.8
8.0' LT

50' TAPER

STA 322+40.6
20.0' LT

STH 22

STA 318+97.3
8.0' RT

STA 317+46.3
4.0' LT

STA 317+46.8
8.0' RT

STA 319+47.3
4.0' RT

30" RCCP

GOLF VIEW RD

SIGN

SLAB

POST

GUY

18" CMCP

SHAWANO LAKE SANITARY
DISTRICT 1 - SEWER

MH

MDW VW RD

INL

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 32	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021213-pd

PLOT DATE : 5/16/2025 11:06 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

N

MATCH LINE STA 323+00

CONSTRUCTION LIMITS
STA 10+73.9

CTH R

STH 22

EXISTING R/W

FRONTIER COMMUNICATIONS

WE ENERGIES - ELECTRIC

SLOPE INTERCEPTS

MOVING TYPE II SIGNS AND SMALL SIGN SUPPORTS

75' TAPER

MOVING TYPE II SIGNS AND SMALL SIGN SUPPORTS

STA 324+88.5
18.8' LT

STA 333+39.1
0.0'

STA 323+56.3
25.0' RT

STA 324+38.7
20.0' RT

EXISTING R/W

SLOPE INTERCEPTS

EXISTING R/W

FRONTIER COMMUNICATIONS

STA BACK = 325+00.00

STA AHEAD = 330+70.50

MDW VW RD

WE ENERGIES - GAS

CAUTION

STA 323+44.79 STH 22 =
STA 10+00.00 CTH R
Y = 284330.348
X = 901883.652

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 33	E

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

N

EXISTING R/W

BM #212

WE ENERGIES - ELECTRIC

EXISTING R/W

FRONTIER COMMUNICATIONS

ASTREA

MGS GUARDRAIL TERMINAL EAT - 53.125'

MGS GUARDRAIL 3 - 400'

SLOPE INTERCEPTS

PROPOSED INVERT ELEV. = 819.00

STA 379+83.0, 58.0' LT
APRON ENDWALLS FOR CP 24-INCH REQ'D.

SPECTRUM

STA 377+10.3
19.0' LT

SIGN

15:1

10:1

4"

STA 379+83.0
1-REMOVING SMALL PIPE CULVERTS
REMOVE EXISTING GUARDRAIL

375 STH 22 376 377 378 379 380

POST #1 STA 378+30.3 21.0' LT

POST #5 STA 378+55.3 20.0' LT

POST #9 STA 378+80.3 19.0' LT

STA 378+83.4 19.0' LT

STA 379+31.0

STA 380+35.0

STA 379+83.0
1-CP CLASS III-B NON METAL 24-INCH REQ'D.

24" RCCP

SLOPE INTERCEPTS

EXISTING R/W

EXISTING R/W

PROPOSED INVERT ELEV. = 821.00

STA 379+83.0, 62.0' RT
APRON ENDWALLS FOR CP 24-INCH REQ'D.

MATCH LINE STA 381+00

CULVERT PIPE NO. C-005783

GUARDRAIL DETAIL STH 22
STA 377+10.3 - STA 384+56.5

2

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 34	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021215-pd

PLOT DATE : 5/16/2025 11:06 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

N

SLAB

T

EXISTING R/W

ASTREA

WE ENERGIES - ELECTRIC

MOVING TYPE II SIGNS AND SMALL SIGN SUPPORTS

FRONTIER COMMUNICATIONS

EXISTING R/W

MGS GUARDRAIL 3 - 400'

MGS GUARDRAIL TERMINAL EAT - 53.125'

BM #213

GUY

FRONTIER COMMUNICATIONS

SPECTRUM

4'

REMOVE EXISTING GUARDRAIL

18" CMCP

SLOPE INTERCEPTS

STA 384+56.5
19.0' LT

15:1

10:1

STA 382+83.4
19.0' LT

POST #9
STA 382+86.5
19.0' LT

POST #5
STA 383+11.5
20.0' LT

POST #1
STA 383+36.5
21.0' LT

MATCH LINE STA 381+00

STH 22

381

382

383

384

385

386

387

EXISTING R/W

EXISTING R/W

GUARDRAIL DETAIL STH 22

STA 377+10.3 - STA 384+56.5

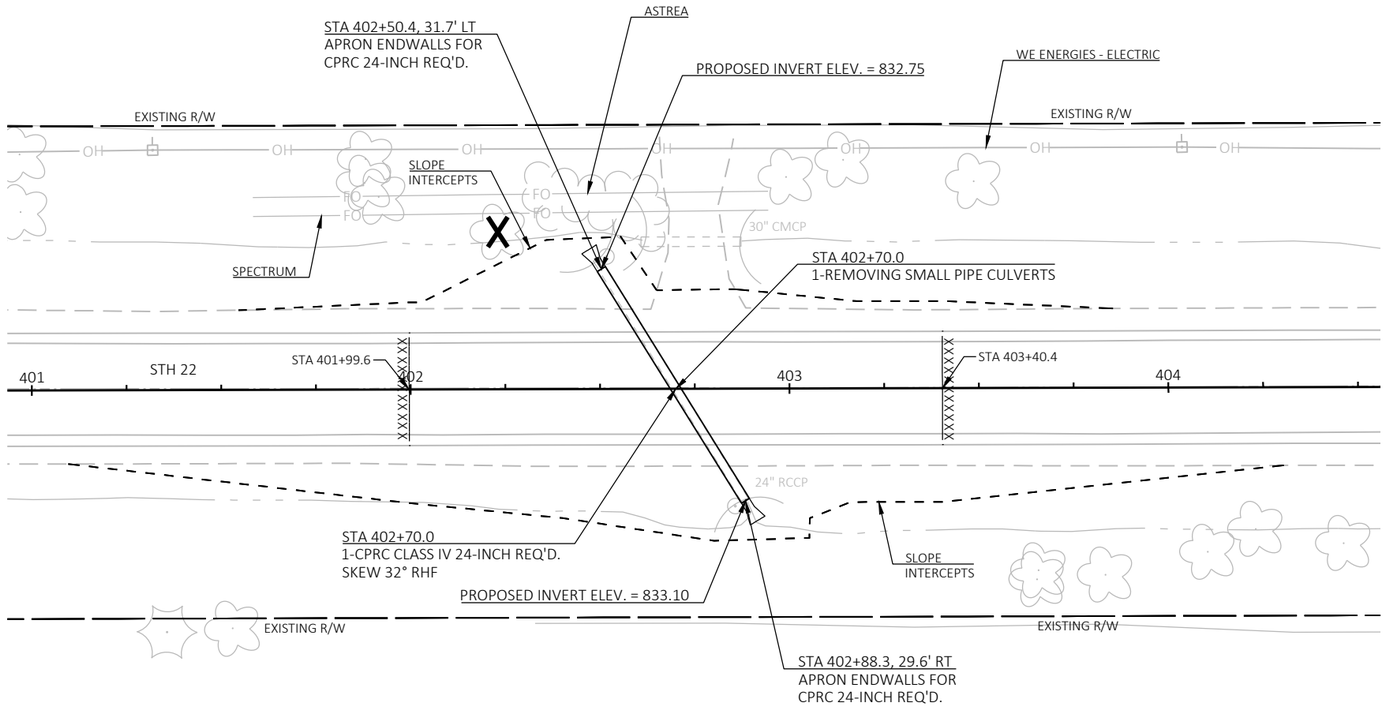
PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 35	E

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

N

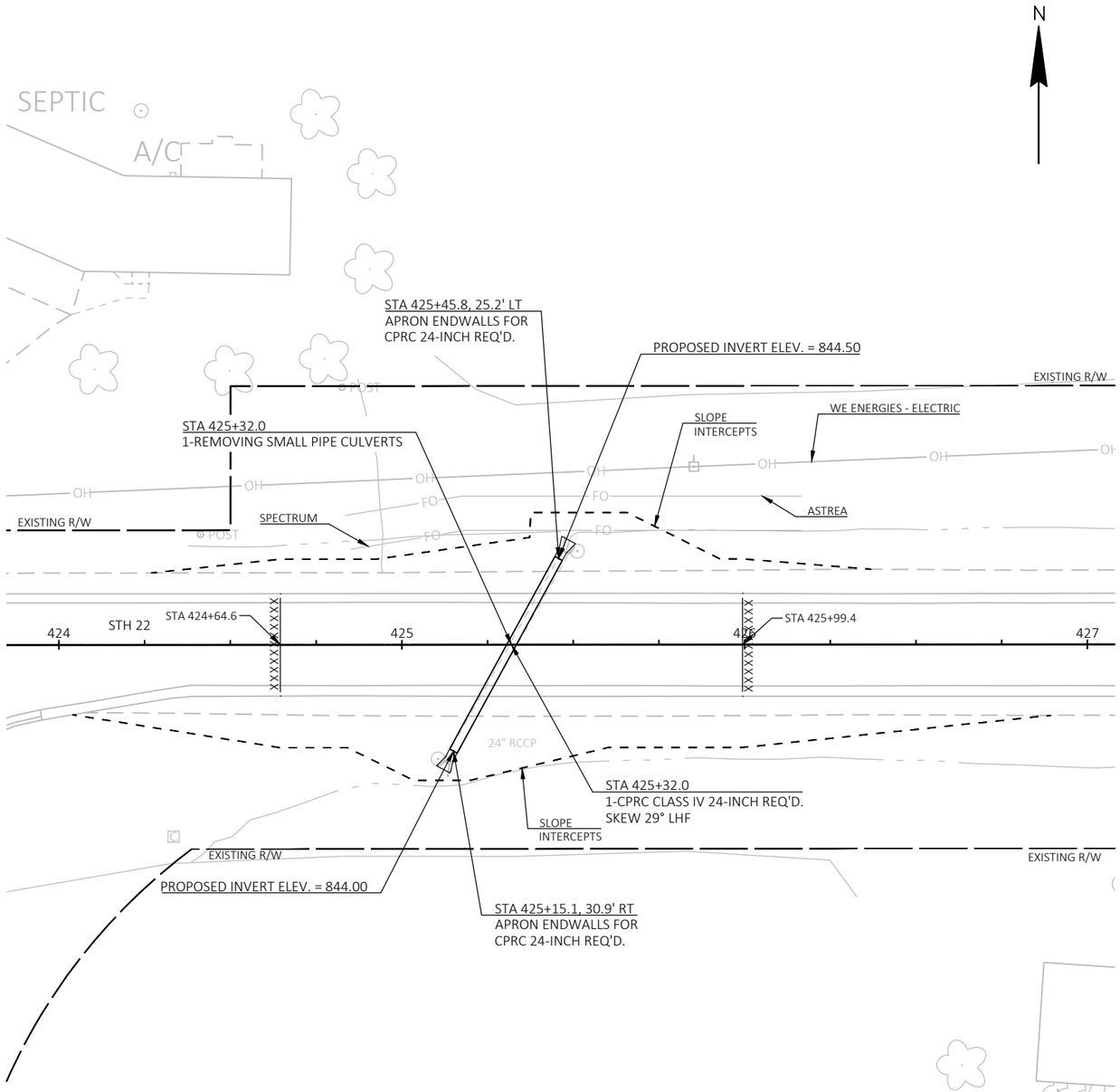


CULVERT PIPE NO. C-005786

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED



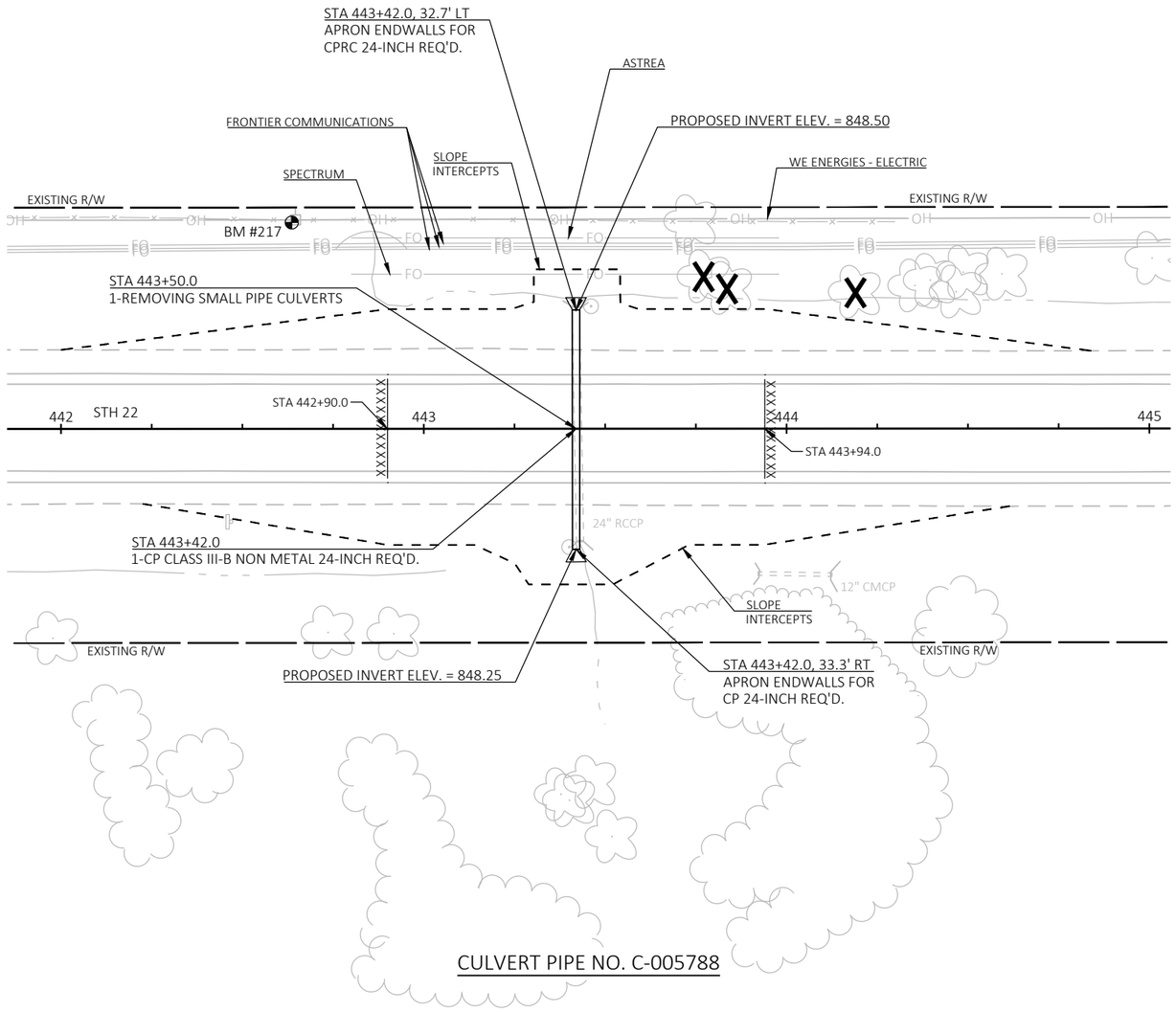
CULVERT PIPE NO. C-005787

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

N

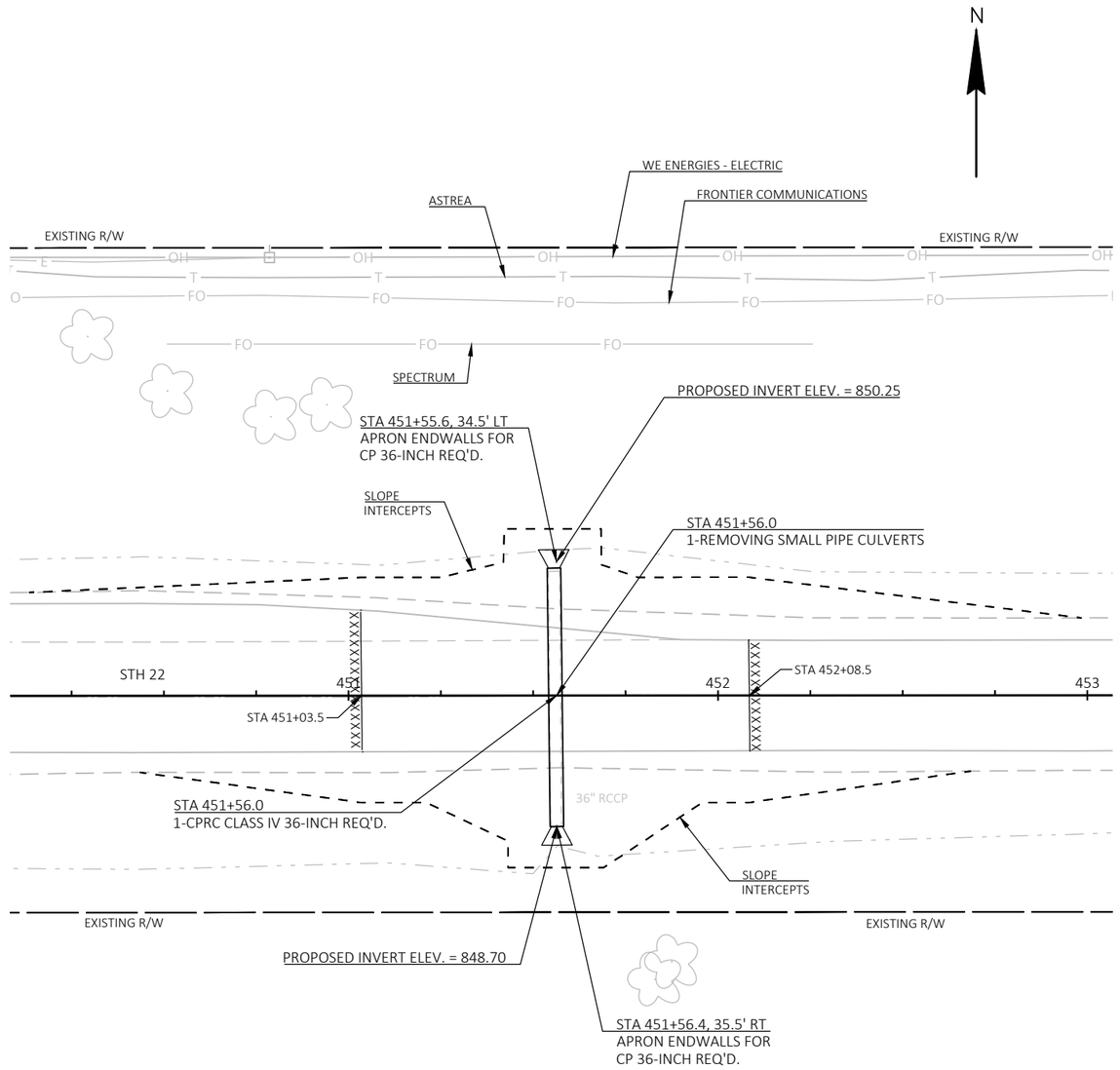


CULVERT PIPE NO. C-005788

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED



CULVERT PIPE NO. C-005790

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

N

EXISTING R/W

ASTREA

WE ENERGIES - ELECTRIC

GUY

SPECTRUM

STA 459+38.0, 36.2' LT
APRON ENDWALLS FOR
CP 30-INCH REQ'D.

PROPOSED INVERT ELEV. = 861.50

SLOPE
INTERCEPTS

24" CMCP

SIGN

457 458 459 460 461 462

STH 22

STA 458+85.5

STA 459+90.5

4' 3' 12' 12' 4' 3'

MATCH LINE STA 463+00

STA 459+38.0
1-CP CLASS III-B NON METAL 30-INCH REQ'D.

24" RCCP

STA 459+38.0
1-REMOVING SMALL PIPE CULVERTS

SLOPE
INTERCEPTS

PROPOSED INVERT ELEV. = 856.00

EXISTING R/W

EXISTING R/W

STA 459+38.0, 59.8' RT
APRON ENDWALLS FOR
CP 30-INCH REQ'D.

CULVERT PIPE NO. C-005791

2

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

N

MATCH LINE STA 463+00

EXISTING R/W

WE ENERGIES - ELECTRIC

SLAB

EXISTING R/W

OH

GUY

STH 22

463

464

465

466

467

468

469

4'

12'

12'

3'

3'

4'

SLOPE INTERCEPTS

24" RCCP

36" CMCP

18" CMCP

PENSAUKEE RD

EXISTING R/W

EXISTING R/W

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 41	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021222-pd

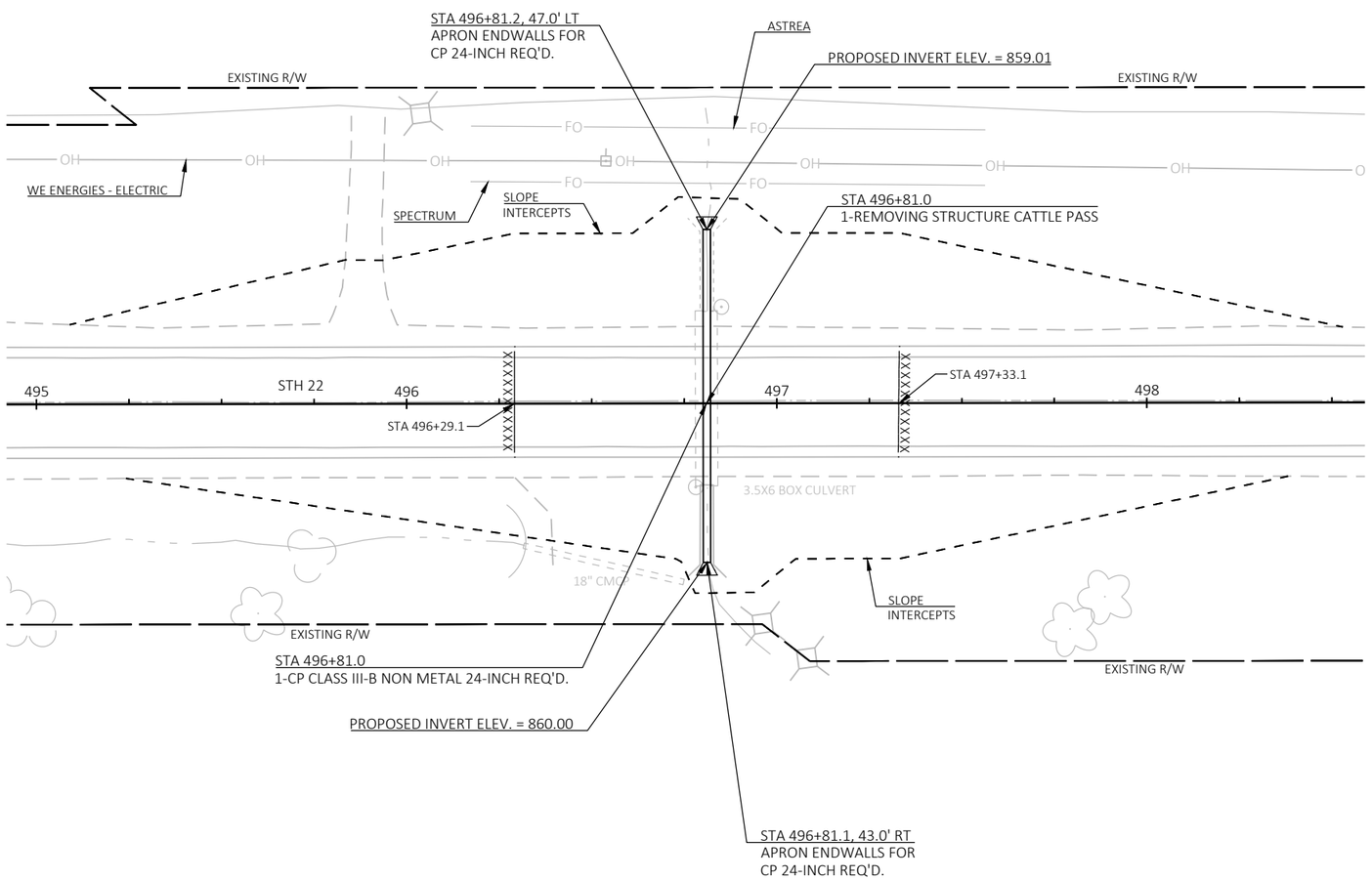
PLOT DATE : 5/16/2025 11:08 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED



CULVERT PIPE NO. C-005793

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 42	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021223-pd

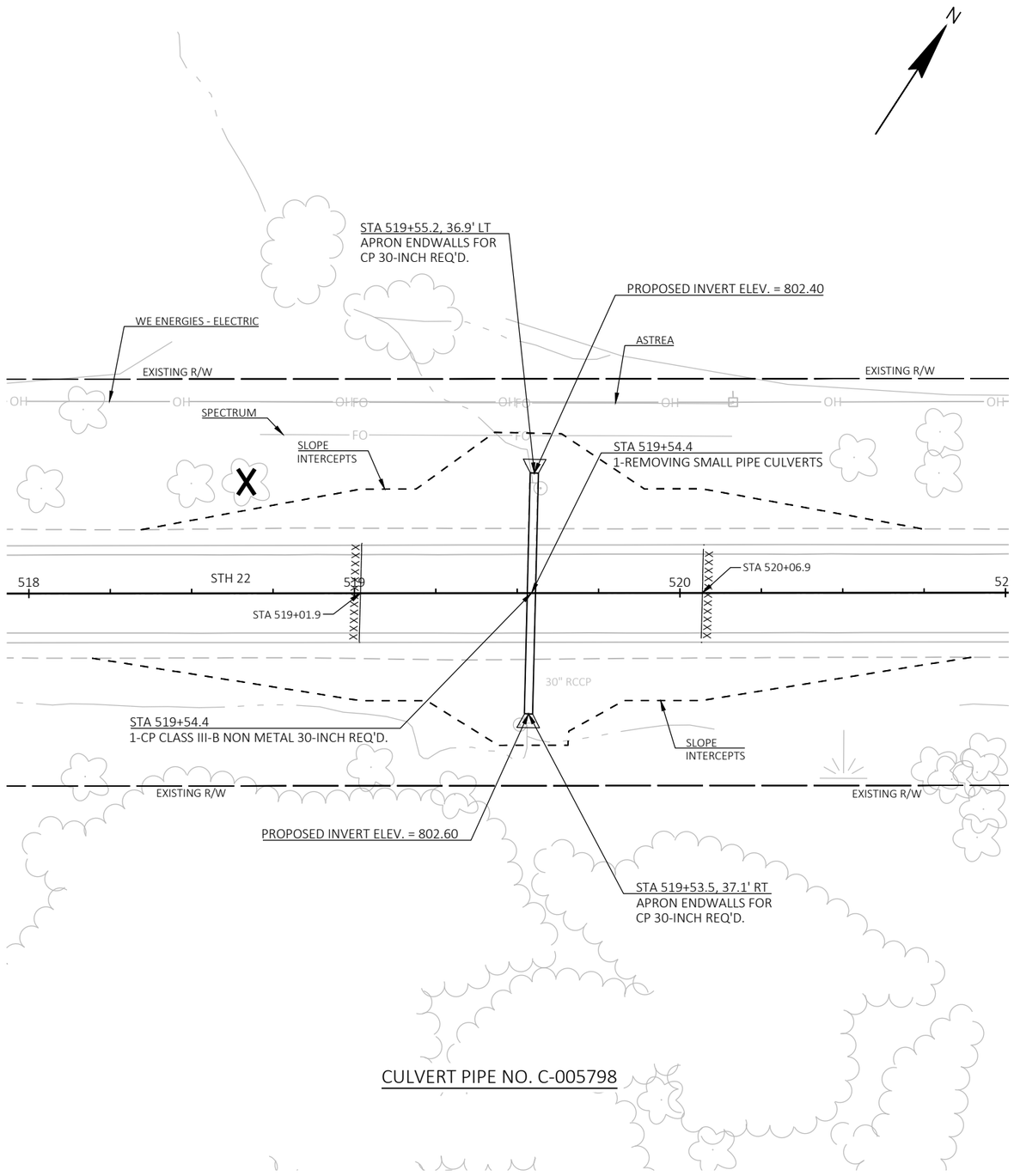
PLOT DATE : 5/16/2025 11:08 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED



CULVERT PIPE NO. C-005798

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 43	E

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

MGS GUARDRAIL
SHORT RADIUS - 8'
ARC LENGTH - 12.5'
2 CRT POSTS

MGS GUARDRAIL SHORT
RADIUS TERMINAL

REMOVE EXISTING GUARDRAIL

CONCRETE SURFACE
DRAIN FLUME REQ'D.

EXISTING R/W

WE ENERGIES - ELECTRIC
ASTREA

SLOPE
INTERCEPTS

MGS THRIE BEAM
TRANSITION - 39.4'

REMOVE INLET

30" CMCP

10" CPP
(ABANDON)

STA 543+38.0
22.0' LT

10:1

STA 542+73.6
22.0' LT

STA 542+98.6
22.0' LT

CONCRETE CURB AND
GUTTER 4-INCH SLOPED
36-INCH TYPE TBTT

538 STH 22 539 540 541 542 543 544

POST #1
STA 540+89.3
24.0' RT

POST #5
STA 541+14.3
23.0' RT

POST #9
STA 541+39.3
22.0' RT

STA 541+42.4
22.0' RT

STA 539+25.2
19.0' RT

10:1

15:1

4'

STA 543+81.8
22.0' RT

STA 543+42.4
22.0' RT

15" PCP
(ABANDON)

SLOPE
INTERCEPTS

MGS GUARDRAIL
TERMINAL EAT - 53.125'

MGS GUARDRAIL 3 - 200'

REMOVE EXISTING GUARDRAIL

CONCRETE SURFACE
DRAIN FLUME REQ'D.

MGS THRIE BEAM
TRANSITION - 39.4'

POLYJACK BRIDGE
APPROACH

MOVING TYPE II SIGNS AND
SMALL SIGN SUPPORTS

EXISTING R/W

EXISTING R/W

GUARDRAIL DETAIL STH 22

B-58-0116

STA 539+35.6 - STA 543+91.2

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 44	E

2

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

TRANSITION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT TO CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT WITH PAVEMENT CHANGE

MOVING TYPE II SIGNS AND SMALL SIGN SUPPORTS

CONCRETE SURFACE DRAIN FLUME REQ'D.

REMOVE EXISTING GUARDRAIL

WE ENERGIES - ELECTRIC

EXISTING R/W

MGS GUARDRAIL THRIE BEAM - 39.4'

MGS GUARDRAIL 3 - 550'

MGS GUARDRAIL TERMINAL EAT - 53.125'

SLOPE INTERCEPTS

ASTREA

10" PCP (ABANDON)

REMOVE INLET

4'

STA 554+43.3
19.0' LT

15:1

10:1

STA 552+26.1
22.0' LT

POST #9 STA 552+29.3
22.0' LT

POST #5 STA 552+54.3
23.0' LT

POST #1 STA 552+79.2
24.0' LT

STA 546+36.7
22.0' LT

STA 546+76.1
22.0' LT

CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT

546 547 552 STH 22 554 555

CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT

STA 547+20.0
22.0' RT

POST #9 STA 553+48.1
22.0' RT

POST #5 STA 553+73.1
23.0' RT

POST #1 STA 553+98.1
24.0' RT

STA 553+45.0
22.0' RT

STA 546+80.6
22.0' RT

10" PCP (ABANDON)

POLYJACK BRIDGE APPROACH

REMOVE INLET

REMOVE EXISTING GUARDRAIL

STA 555+62.2
19.0' RT

SLOPE INTERCEPTS

MGS GUARDRAIL THRIE BEAM - 39.4'

MGS GUARDRAIL 3 - 625'

MGS GUARDRAIL TERMINAL EAT - 53.125'

CP #907
IRON PIPE W/CAP
STA 547+06.57, 26.95' RT
Y = 291561.586
X = 920799.288

CONCRETE SURFACE DRAIN FLUME REQ'D.

EXISTING R/W

GUARDRAIL DETAIL STH 22

B-58-0116

STA 546+27.9 - STA 555+51.9

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 45	E

2

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

N

STA 571+76.7, 59.8' LT
APRON ENDWALLS FOR
CP 36-INCH REQ'D.

ASTREA

PROPOSED INVERT ELEV. = 794.15

EXISTING R/W

12" CP

STA 572+55.4
1-REMOVING SMALL PIPE CULVERTS

WE ENERGIES - ELECTRIC

EXISTING R/W

OH

FO

BM #215

SLOPE
INTERCEPTS

SPECTRUM

MOVING TYPE II SIGNS AND
SMALL SIGN SUPPORTS

570 571 572 573 574 575

STA 571+49.3

STH 22

STA 573+61.5

FRONTIER COMMUNICATIONS

36" CMCP

STA 572+55.4
1-CP CLASS III-B NON METAL 36-INCH REQ'D.
SKEW 53° RHF

SLOPE
INTERCEPTS

EXISTING R/W

EXISTING R/W

STA 573+32.7, 58.8' RT
APRON ENDWALLS FOR
CP 36-INCH REQ'D.

PROPOSED INVERT ELEV. = 790.70

W

SLAB

SEPTIC

A/C

CULVERT PIPE NO. C-005801

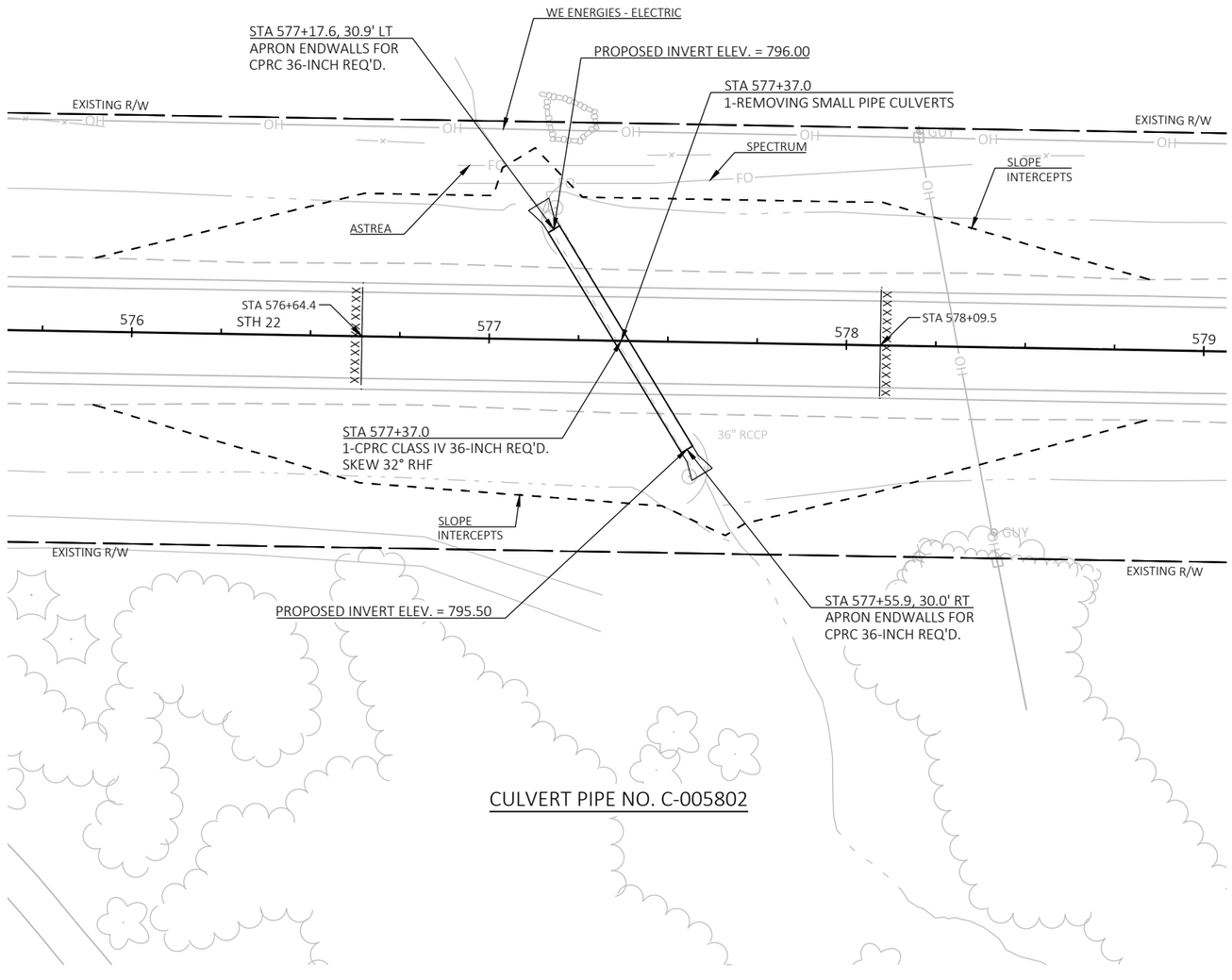
PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 46	E

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED



2

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 47	E

2

2

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

EXISTING R/W

WE ENERGIES - ELECTRIC

EXISTING R/W

OH

T

ASTREA

GUY

MATCH LINE STA 588+00

582

STH 22

583

584

585

586

587

3'

3'

12'

12'

3'

3'

SIGN

EXISTING R/W

SLOPE INTERCEPTS

FO

FO

FO

FO

EXISTING R/W

FRONTIER COMMUNICATIONS

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 48	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021229-pd

PLOT DATE : 5/16/2025 11:10 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED

STA 590+47.1, 45.6' LT
APRON ENDWALLS FOR
CPRC 54-INCH REQ'D.

ASTREA

PROPOSED INVERT ELEV. = 778.52

STA 590+47.0
1-REMOVING STRUCTURE CATTLE PASS

REMOVE EXISTING GUARDRAIL

REMOVE EXISTING
CONCRETE PAVEMENT

EXISTING R/W

WE ENERGIES - ELECTRIC

ASTREA

MOVING TYPE II SIGNS AND
SMALL SIGN SUPPORTS

REMOVE EXISTING
CONCRETE PAVEMENT

SLOPE
INTERCEPTS

SPECTREM

STA 593+25.36 STH 22 =
STA 10+00.00 CTH C
Y = 294303.855
X = 924476.865

MATCH LINE STA 588+00

STH 22

STA 589+92.4

STA 591+01.4

REMOVE EXISTING GUARDRAIL

STA 590+47.0
1-CPRC CLASS IV 54-INCH REQ'D.

MOVING TYPE II
SIGNS AND SMALL
SIGN SUPPORTS

3.5X6 BOX CULVERT

EXISTING R/W

FRONTIER COMMUNICATIONS

R/W LINE

TLE LINE

SLOPE
INTERCEPTS

MOVING TYPE II SIGNS AND
SMALL SIGN SUPPORTS

PROPOSED INVERT ELEV. = 771.98

REMOVE EXISTING
CONCRETE PAVEMENT

STA 590+44.7, 66.4' RT
APRON ENDWALLS FOR
CPRC 54-INCH REQ'D.

SIGN

CTH C

CULVERT PIPE NO. C-007482

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 49	E

LEGEND

XXXXXX SAW CUTS

TREE TO BE GRUBBED

EXISTING R/W

WE ENERGIES - ELECTRIC

LINDQUIST RD

STA 597+56.2
31.5' LT

TLE LINE

STA 597+74.6
31.5' LT

STA 597+56.2
18.1' LT

STA 597+74.6
15.5' LT

STA 597+55.3
15.7' LT

STA 597+82.1
13.0' LT

ADJUST INLET
COVER

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

ADJUST INLET
COVER

STA 598+02.5
18.9' RT

STA 598+12.5
19.0' RT

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

SLOPE
INTERCEPTS

EXISTING R/W

CAUTION

WE ENERGIES - GAS

STH 22

596 597 598 599 600 601

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

STA 600+37.2
13.0' LT

STA 600+45.1
13.0' LT

ADJUST INLET
COVERS

STA 600+48.2
18.9' RT

STA 600+55.9
18.9' RT

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

MATCH LINE STA 602+00

MATCH LINE STA 602+00

TLE LINE
R/W LINE

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

STA 603+14.6
12.9' LT

STA 603+28.2
12.9' LT

STA 604+12.0
13.0' LT

STA 604+20.0
13.0' LT

ADJUST INLET
COVERS

STA 604+04.8
18.8' RT

STA 604+12.8
18.8' RT

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

SLOPE
INTERCEPTS

STH 22

602 603 604 605 606 607

SLOPE
INTERCEPTS

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

STA 606+72.6
13.1' LT

STA 606+80.6
13.1' LT

ADJUST INLET
COVERS

STA 606+68.8
18.8' RT

STA 606+76.8
18.8' RT

CONCRETE CURB AND GUTTER
30-INCH TYPE D REQ'D.

SLOPE
INTERCEPTS

MATCH LINE STA 608+00

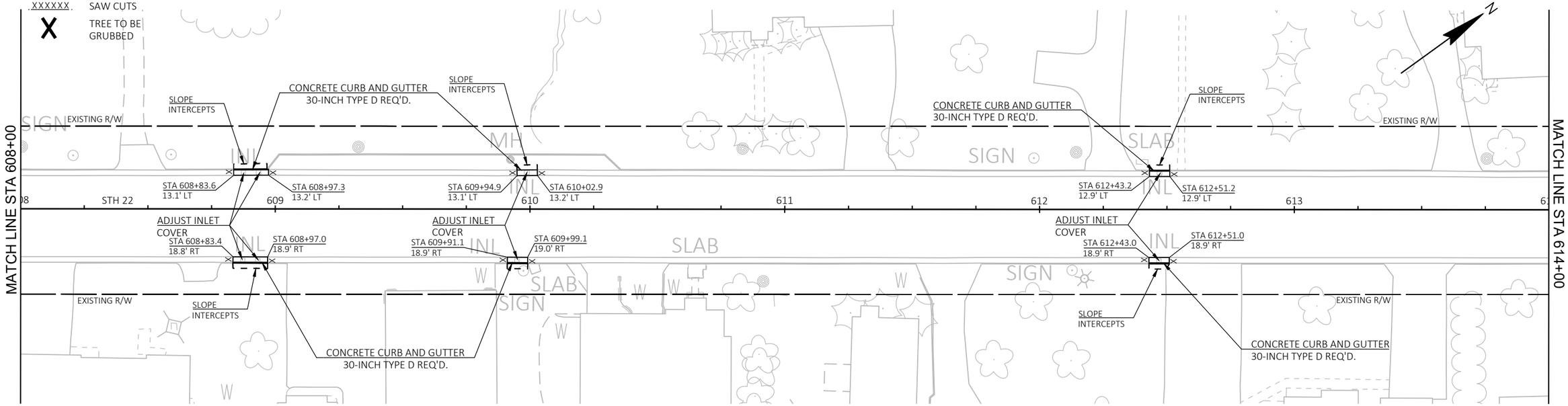
PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 50	E

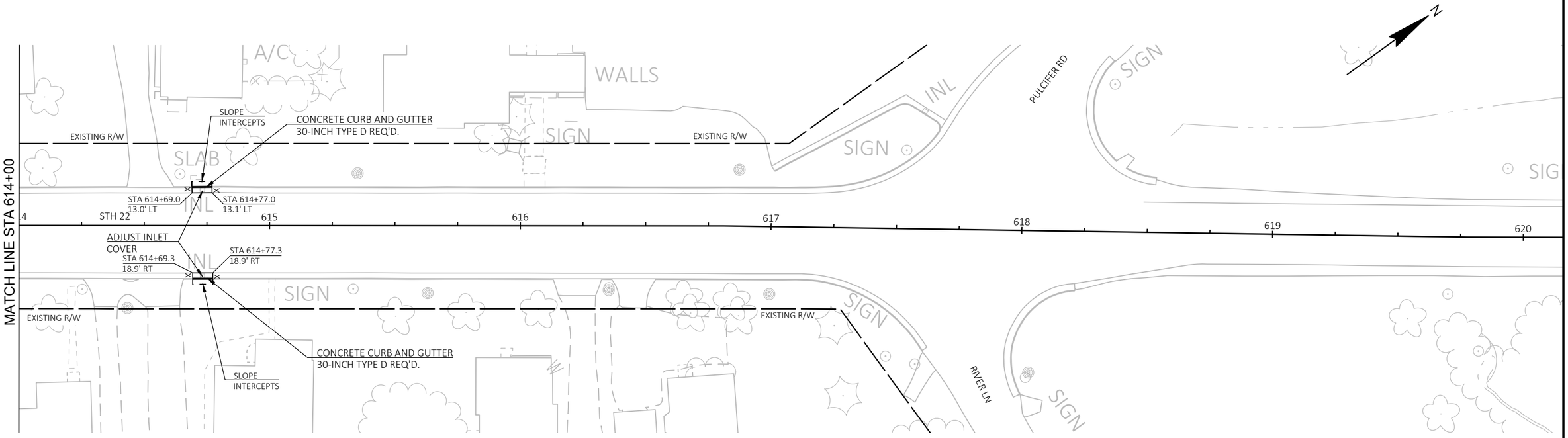
FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021231-pd
PLOT DATE : 5/16/2025 11:11 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

LEGEND

XXXXXX SAW CUTS

X TREE TO BE GRUBBED





PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN DETAILS	SHEET 51	E

2

2

ALL CURB AND GUTTER POINTS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED
ALL RADIUS DISTANCES ARE TO FACE OF CURB

N

CONSTRUCTION LIMITS STA 10+93.8

CONSTRUCTION LIMITS STA 8+21.3

EXISTING R/W

CHANNEL DR

FRONTAGE RD

RESORT RD

R/W LINE

TLE LINE

SIGN

POST

STH 22

163 164 165 166 167 168 169

814.97 814.71 43' R 814.00 813.27 812.68 814.71 814.63 814.28 813.66 58' R 812.77 813.43 812.45 814.18 814.57 814.68 23' R 814.05 814.53 814.79 814.93 58' R 813.54

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

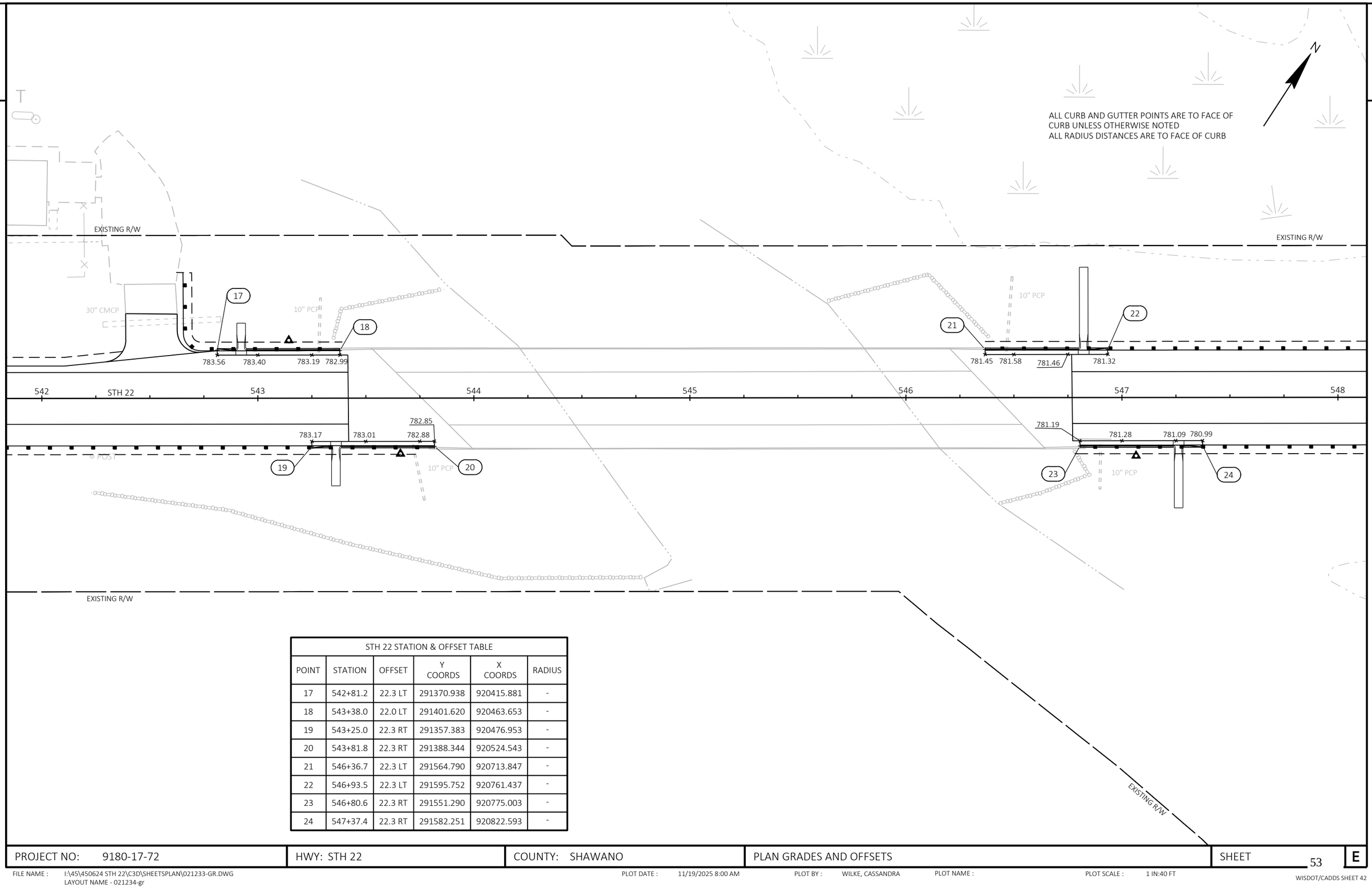
STH 22 STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
1	165+38.6	26.0 RT	276342.754	888970.806	-
2	165+74.2	45.0 RT	276339.000	889011.017	-
3	165+78.4	85.1 RT	276303.558	889030.380	-
4	165+38.6	69.0 RT	276303.078	888987.383	43'
5	165+98.7	26.5 LT	276414.361	889006.051	-
6	166+28.9	34.5 LT	276433.428	889030.866	-
7	166+50.3	57.5 LT	276462.921	889041.703	-
8	165+98.7	84.0 LT	276467.431	888983.878	58'
9	166+24.4	62.2 RT	276342.393	889063.948	-
10	166+45.7	35.9 RT	276374.920	889073.491	-
11	166+78.1	26.0 RT	276396.558	889099.585	-
12	166+78.1	84.0 RT	276343.042	889121.945	58'
13	166+87.4	57.8 LT	276477.401	889075.827	-
14	166+89.5	36.2 LT	276458.347	889086.129	-
15	167+08.6	26.0 LT	276456.302	889107.693	-
16	167+08.6	49.0 LT	276477.524	889098.826	23'

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN GRADES AND OFFSETS	SHEET 52	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\021233-GR.DWG
LAYOUT NAME - 021233-gr
PLOT DATE : 5/16/2025 11:12 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

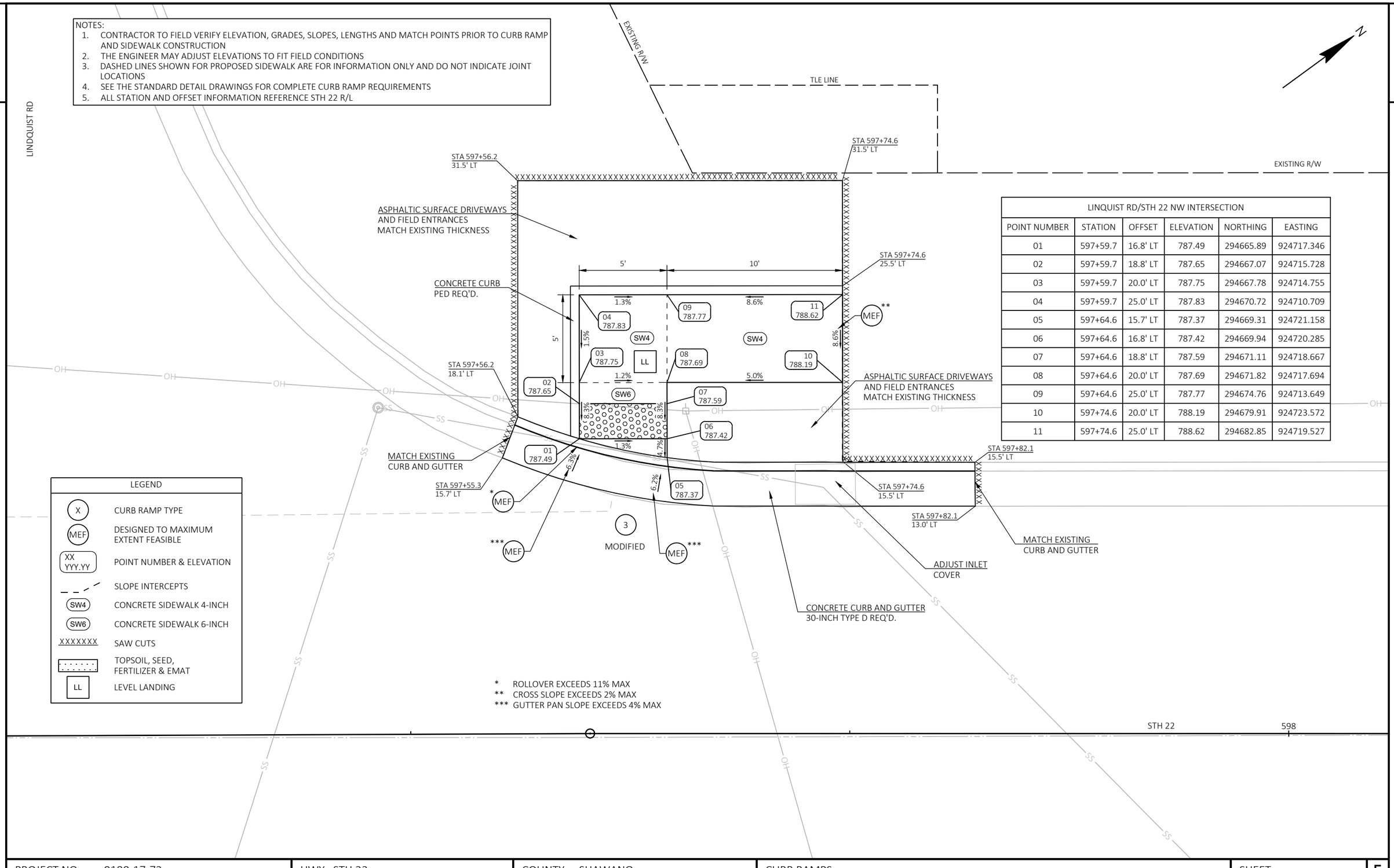
ALL CURB AND GUTTER POINTS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED
ALL RADIUS DISTANCES ARE TO FACE OF CURB



STH 22 STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
17	542+81.2	22.3 LT	291370.938	920415.881	-
18	543+38.0	22.0 LT	291401.620	920463.653	-
19	543+25.0	22.3 RT	291357.383	920476.953	-
20	543+81.8	22.3 RT	291388.344	920524.543	-
21	546+36.7	22.3 LT	291564.790	920713.847	-
22	546+93.5	22.3 LT	291595.752	920761.437	-
23	546+80.6	22.3 RT	291551.290	920775.003	-
24	547+37.4	22.3 RT	291582.251	920822.593	-

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN GRADES AND OFFSETS	SHEET 53	E

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 ELEVATIONS 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
5. ALL STATION AND OFFSET INFORMATION REFERENCE STH 22 R/L



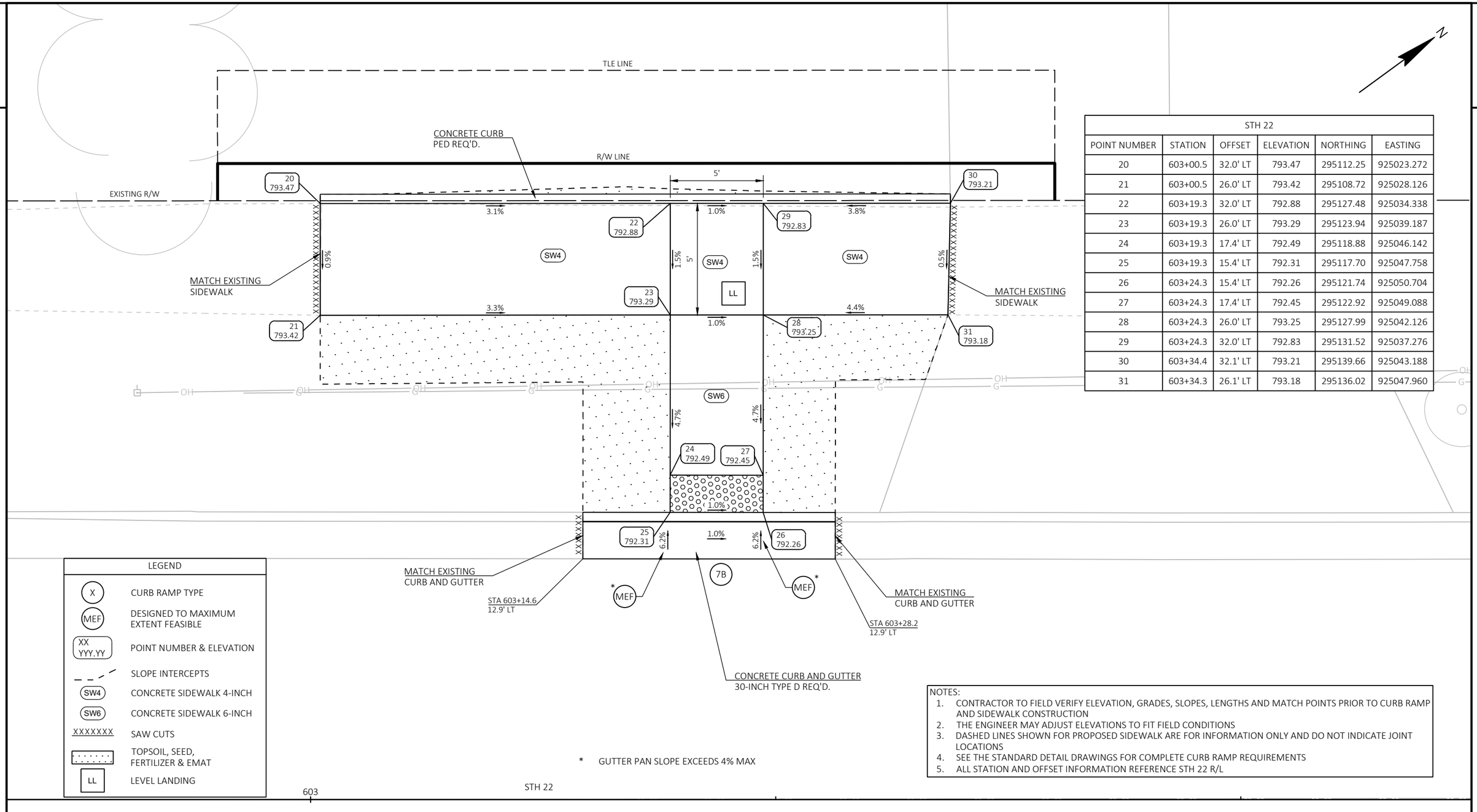
LINQUIST RD/STH 22 NW INTERSECTION					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	597+59.7	16.8' LT	787.49	294665.89	924717.346
02	597+59.7	18.8' LT	787.65	294667.07	924715.728
03	597+59.7	20.0' LT	787.75	294667.78	924714.755
04	597+59.7	25.0' LT	787.83	294670.72	924710.709
05	597+64.6	15.7' LT	787.37	294669.31	924721.158
06	597+64.6	16.8' LT	787.42	294669.94	924720.285
07	597+64.6	18.8' LT	787.59	294671.11	924718.667
08	597+64.6	20.0' LT	787.69	294671.82	924717.694
09	597+64.6	25.0' LT	787.77	294674.76	924713.649
10	597+74.6	20.0' LT	788.19	294679.91	924723.572
11	597+74.6	25.0' LT	788.62	294682.85	924719.527

LEGEND	
X	CURB RAMP TYPE
MEF	DESIGNED TO MAXIMUM EXTENT FEASIBLE
XX YYY.YY	POINT NUMBER & ELEVATION
	SLOPE INTERCEPTS
SW4	CONCRETE SIDEWALK 4-INCH
SW6	CONCRETE SIDEWALK 6-INCH
XXXXXXX	SAW CUTS
	TOPSOIL, SEED, FERTILIZER & EMAT
LL	LEVEL LANDING

* ROLLOVER EXCEEDS 11% MAX
** CROSS SLOPE EXCEEDS 2% MAX
*** GUTTER PAN SLOPE EXCEEDS 4% MAX

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	CURB RAMPS	SHEET 54	E

2



STH 22					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
20	603+00.5	32.0' LT	793.47	295112.25	925023.272
21	603+00.5	26.0' LT	793.42	295108.72	925028.126
22	603+19.3	32.0' LT	792.88	295127.48	925034.338
23	603+19.3	26.0' LT	793.29	295123.94	925039.187
24	603+19.3	17.4' LT	792.49	295118.88	925046.142
25	603+19.3	15.4' LT	792.31	295117.70	925047.758
26	603+24.3	15.4' LT	792.26	295121.74	925050.704
27	603+24.3	17.4' LT	792.45	295122.92	925049.088
28	603+24.3	26.0' LT	793.25	295127.99	925042.126
29	603+24.3	32.0' LT	792.83	295131.52	925037.276
30	603+34.4	32.1' LT	793.21	295139.66	925043.188
31	603+34.3	26.1' LT	793.18	295136.02	925047.960

LEGEND

X	CURB RAMP TYPE
MEF	DESIGNED TO MAXIMUM EXTENT FEASIBLE
XX YYY.YY	POINT NUMBER & ELEVATION
	SLOPE INTERCEPTS
SW4	CONCRETE SIDEWALK 4-INCH
SW6	CONCRETE SIDEWALK 6-INCH
XXXXXXX	SAW CUTS
	TOPSOIL, SEED, FERTILIZER & EMAT
LL	LEVEL LANDING

* GUTTER PAN SLOPE EXCEEDS 4% MAX

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 ELEVATIONS 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
5. ALL STATION AND OFFSET INFORMATION REFERENCE STH 22 R/L

2

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

EXISTING R/W

EXISTING R/W

R

156 STH 22 157 158 159 160 161

MATCH LINE STA 162+00

R

EXISTING R/W

EXISTING R/W

WELL

SEPTIC

A/C

A/C

MH

W

A/C

SLAB

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 56	E

2

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

MH

EXISTING R/W

CHANNEL DR

POST

SIGN

RESORT RD

FRONTAGE RD

CONSTRUCTION
LIMITS STA 10+93.8

N

MATCH LINE STA 162+00

STH 22

162 163 164 165 166 167 168

MATCH LINE STA 168+00

CONSTRUCTION LIMITS
STA 8+21.3

R/W LINE

TILE

CONC

R

ASPH

EXISTING R/W

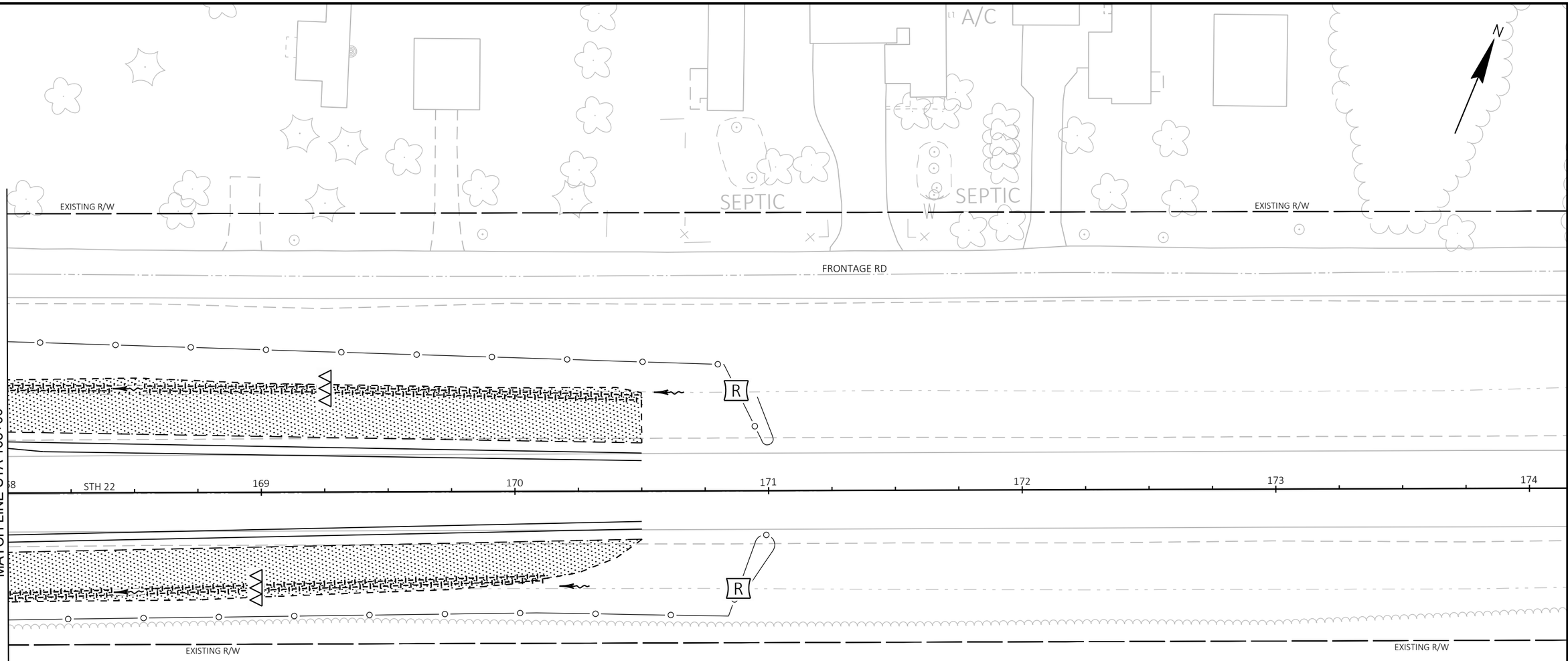
12 11 9 8

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONCRETE SURFACE DRAIN
- CLIMBING TURTLE FENCE RELIEF
- ASPHALTIC FLUME

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 57	E

2



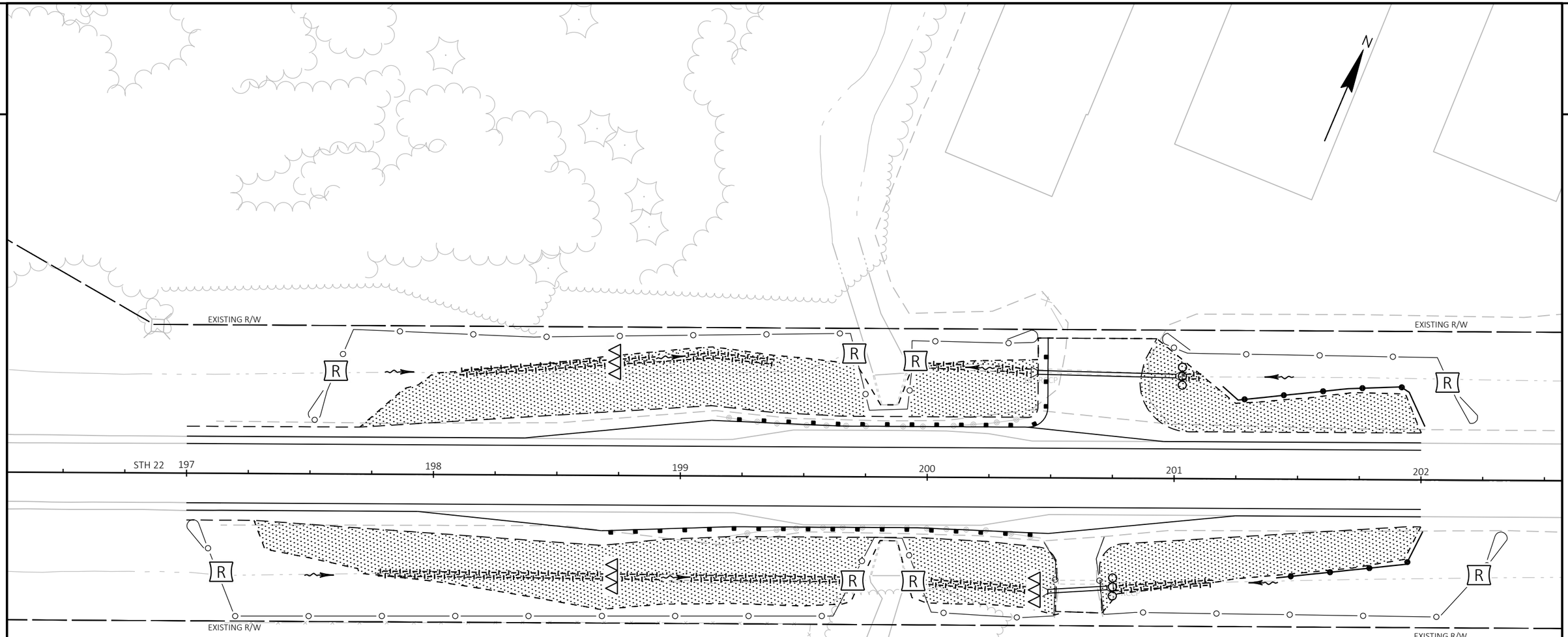
LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 58	E

2



LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

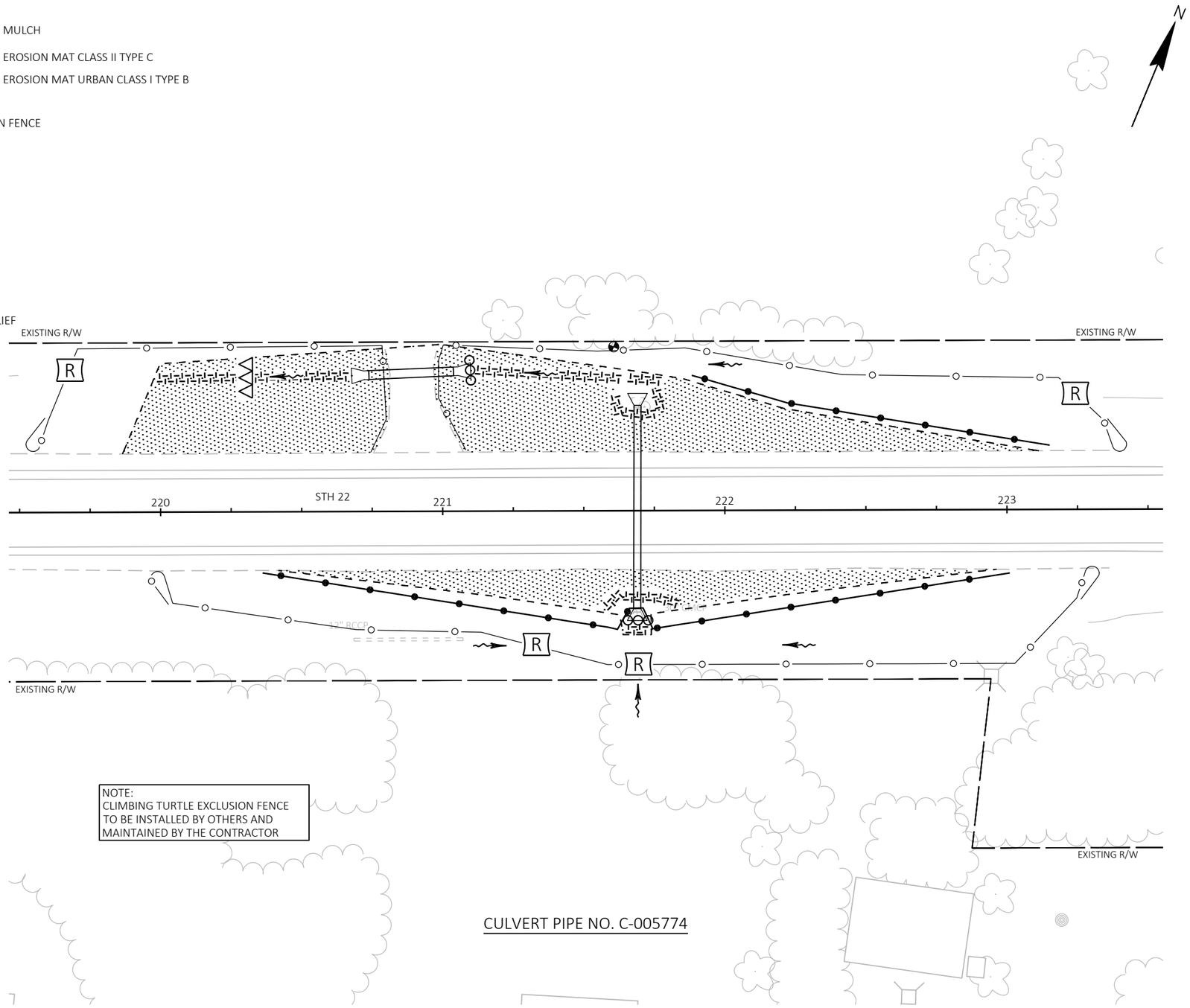
NOTE:
CLIMBING TURTLE EXCLUSION FENCE TO BE INSTALLED BY OTHERS AND MAINTAINED BY THE CONTRACTOR

GUARDRAIL DETAIL STH 22
CULVERT PIPE NO. C-58-0022
STA 197+60.3 - STA 201+76.6

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 59	E

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME



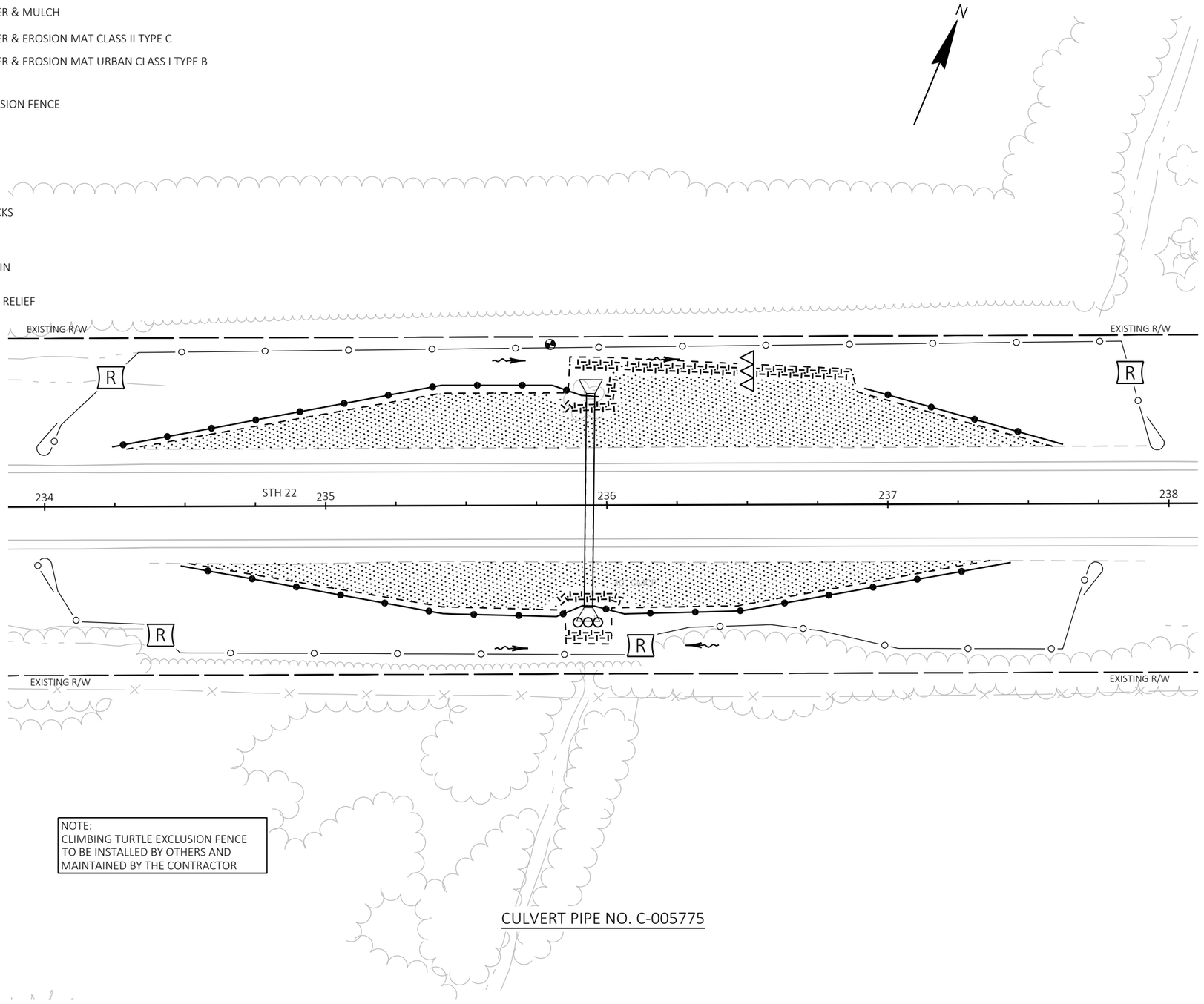
NOTE:
CLIMBING TURTLE EXCLUSION FENCE TO BE INSTALLED BY OTHERS AND MAINTAINED BY THE CONTRACTOR

CULVERT PIPE NO. C-005774

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME



NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

CULVERT PIPE NO. C-005775

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 61	E

2

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

N

EXISTING R/W

EXISTING R/W

MATCH LINE STA 274+75

STH 22

269 270 271 272 273 274

R

R

12" CMCP

12" CMCP

24" CMCP

24" RCCP

18" CMCP

18" CMCP

POST

POST

POST

SEPV

FLAG

BLDG

BLDG

BLDG

BLDG

A/C

A/C

A/C

MH

W

W

IP

EXISTING R/W

EXISTING R/W

NOTE:
CLIMBING TURTLE EXCLUSION FENCE TO BE INSTALLED BY OTHERS AND MAINTAINED BY THE CONTRACTOR

CULVERT PIPE NO. C-005777

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 62	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022007-ec

PLOT DATE : 11/19/2025 7:54 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

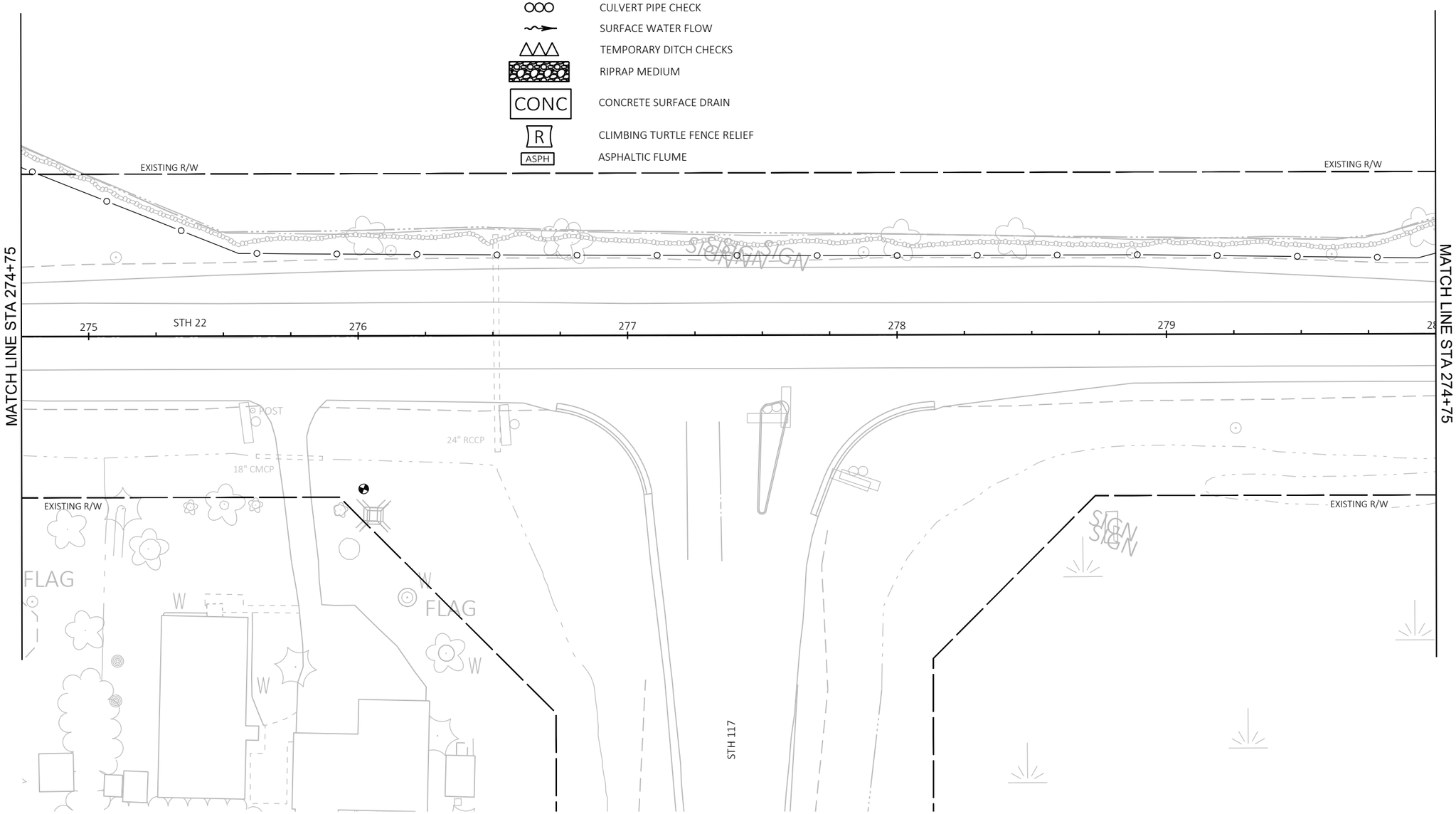
2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

N



PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 63	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022008-ec

PLOT DATE : 11/19/2025 7:54 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

N

MATCH LINE STA 280+00

STH 22

EXISTING R/W

SIGN

RIPRAP

36" RCCP

MH

W

FLAG

W LAKE DR

280

281

282

283

284

285

286

NOTE:
CLIMBING TURTLE EXCLUSION FENCE TO BE INSTALLED BY OTHERS AND MAINTAINED BY THE CONTRACTOR

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 64	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022009-ec

PLOT DATE : 11/19/2025 7:55 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

N

EXISTING R/W

18" RCCP

SIGN

W

MH

18" CMCP

292 STH 22 293 294 295 296 297 298

CMCP

SLAB

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

GUARDRAIL DETAIL STH 22
CULVERT PIPE NO. C-58-0027
STA 293+40.7 - STA 296+79.5

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 65	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022010-ec

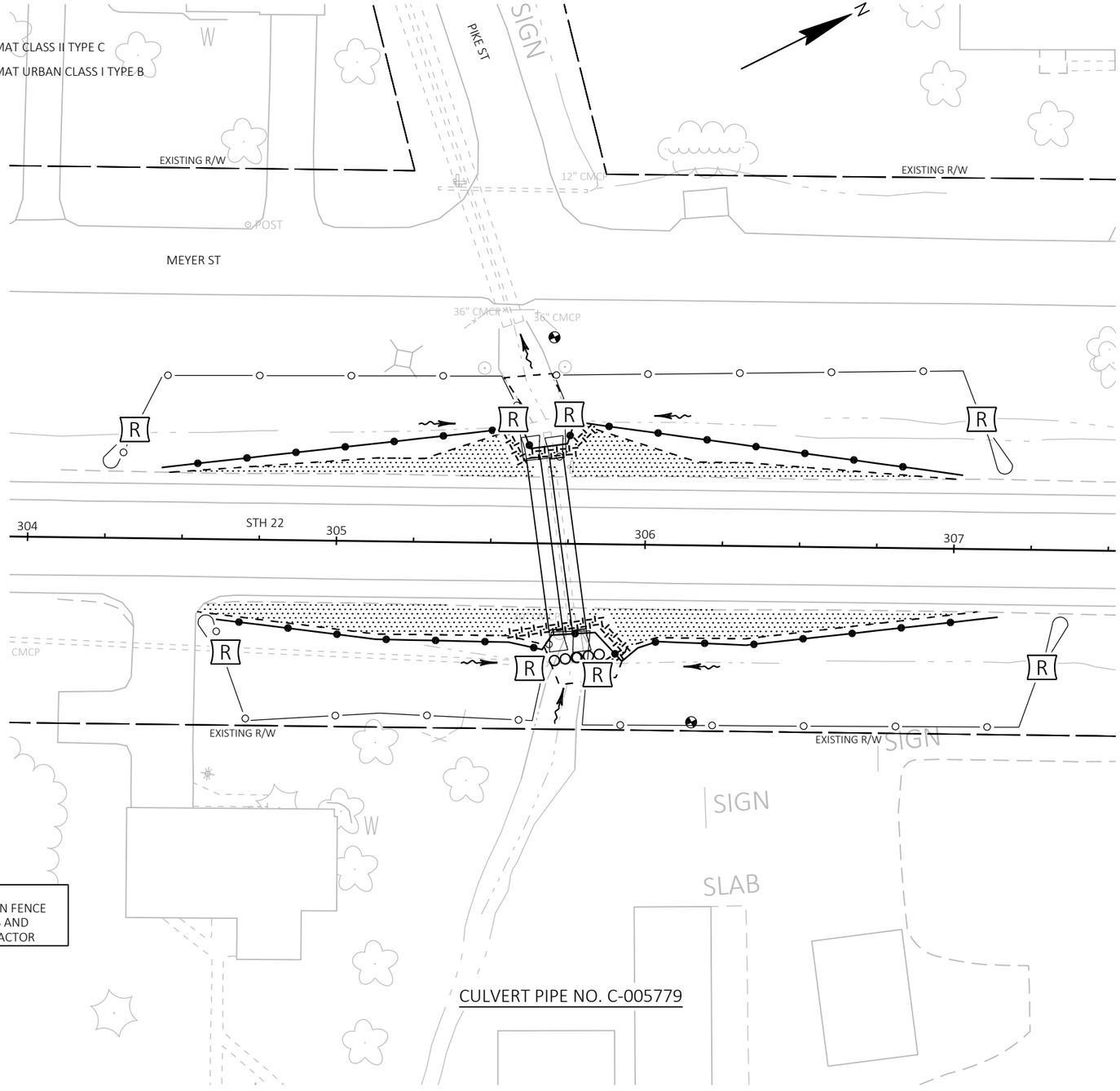
PLOT DATE : 11/19/2025 7:55 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME



NOTE:
CLIMBING TURTLE EXCLUSION FENCE TO BE INSTALLED BY OTHERS AND MAINTAINED BY THE CONTRACTOR

2

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

EXISTING R/W

N MEYER ST

CONSTRUCTION LIMITS
STA 9+45.8

W BAEHR ST

EXISTING R/W

N MEYER ST

SIGN

SIGN

MH

SIGN

311 STH 22 312 313 314 315 316

MATCH LINE STA 317+00

R

R

R

18" CMP

11

12

13

14

15

N WARRINGTON AVE

GOLF VIEW RD

SIGN

CONSTRUCTION LIMITS
STA 10+68.1

EXISTING R/W

SIGN

MH

SIGN

LEMKE ST

SLAB

FLAG

SLAB

W

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 67	E

2

2

EXISTING R/W

N MEYER ST

MATCH LINE STA 317+00

317

318

STH 22

319

320

321

322

MATCH LINE STA 323+00

30" RCCP

R

SIGN

EXISTING R/W

GOLF VIEW RD

SLAB

POST

18" CMCP

SIGN

W

EXISTING R/W

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

MDW VW RD

INL

MH

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R / ASPH — CLIMBING TURTLE FENCE RELIEF / ASPHALTIC FLUME

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 68	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022013-ec

PLOT DATE : 11/19/2025 7:56 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MH

12

11

CTH R

EXISTING R/W

CONSTRUCTION LIMITS
STA 10+73.9

EMCP

R

R

EXISTING R/W

POST

MATCH LINE STA 323+00

STH 22

324

331

332

333

334

R

SIGN

EXISTING R/W

POST

EXISTING R/W

MDW VW RD

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 69	E

2

2

N

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

EXISTING R/W

BM #212

EXISTING R/W

375 STH 22 376 377 378 379 380

MATCH LINE STA 381+00

EXISTING R/W

EXISTING R/W

CULVERT PIPE NO. C-005783

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

GUARDRAIL DETAIL STH 22
STA 377+10.3 - STA 384+56.5

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 70	E

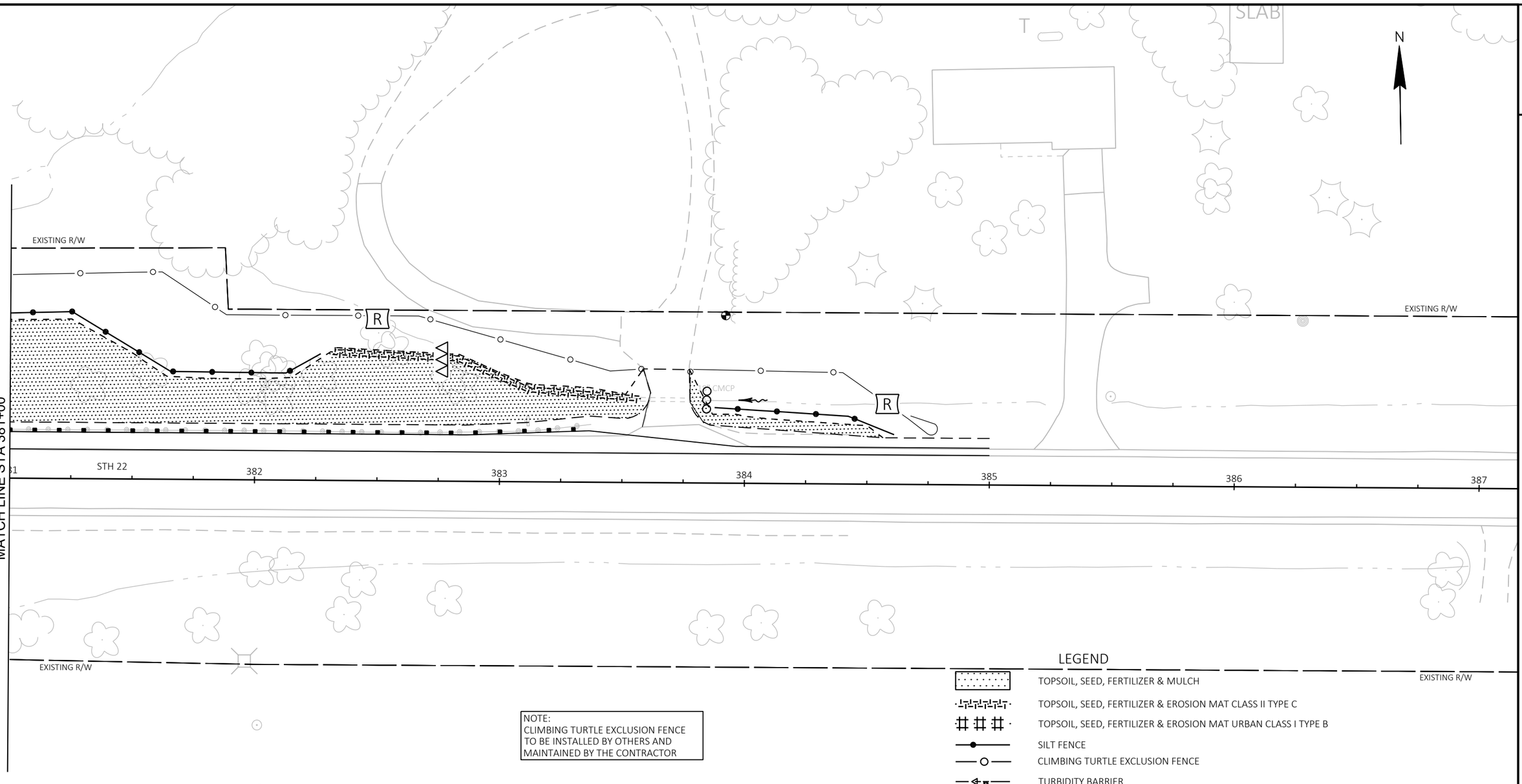
FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022015-ec

PLOT DATE : 11/19/2025 7:56 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2



NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

GUARDRAIL DETAIL STH 22
STA 377+10.3 - STA 384+56.5

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

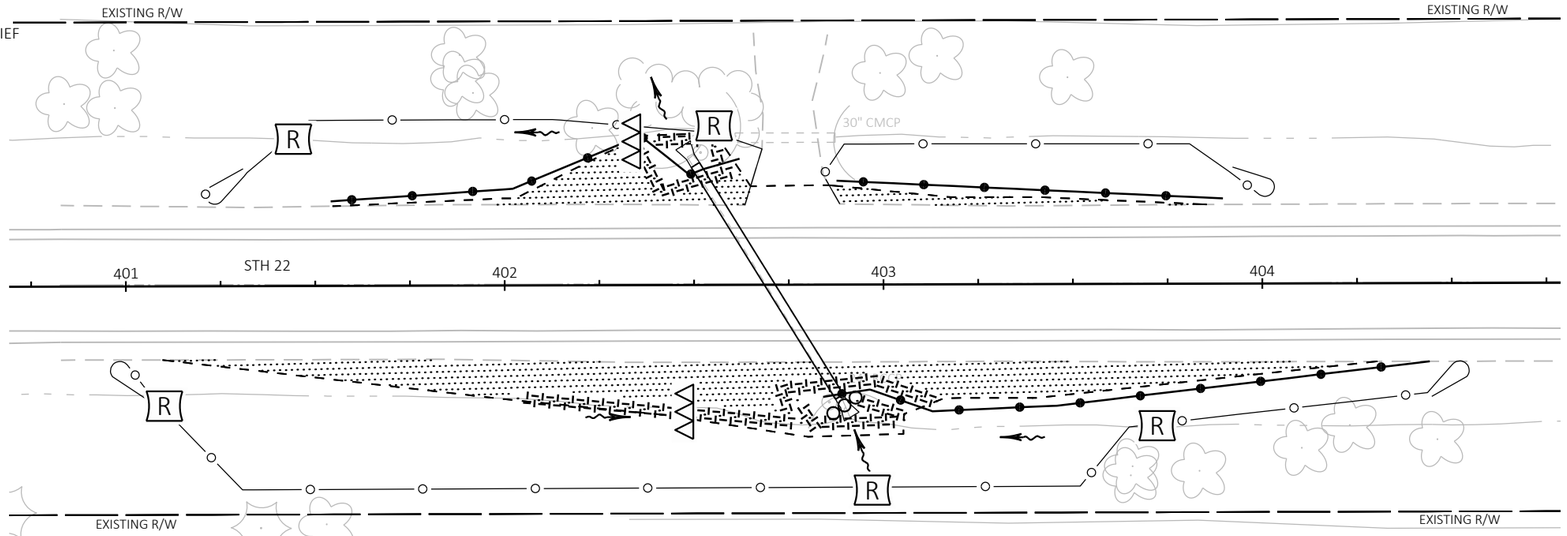
PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 71	E

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- R / ASPH — ASPHALTIC FLUME

N



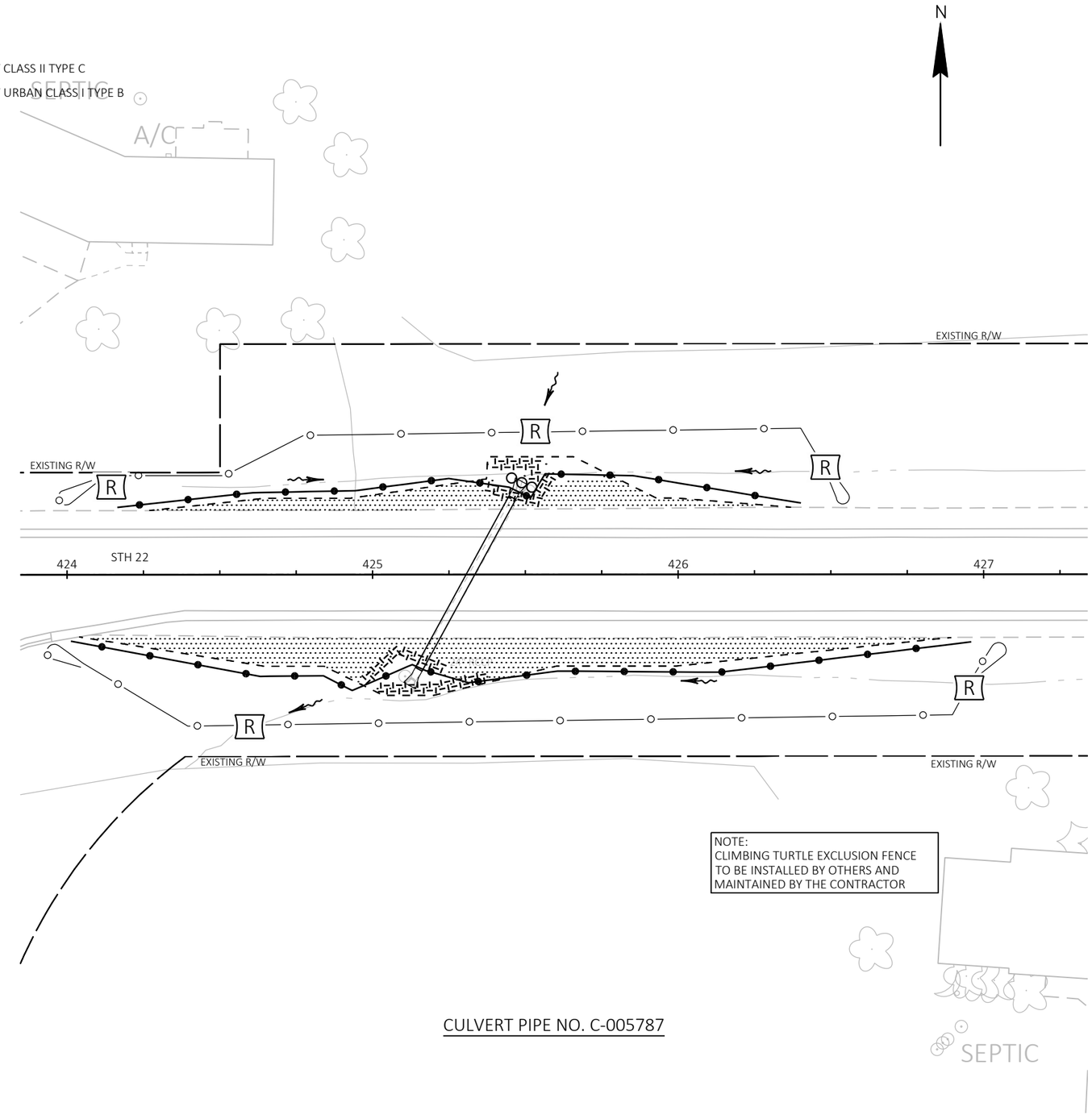
CULVERT PIPE NO. C-005786

NOTE:
CLIMBING TURTLE EXCLUSION FENCE TO BE INSTALLED BY OTHERS AND MAINTAINED BY THE CONTRACTOR

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 72	E

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

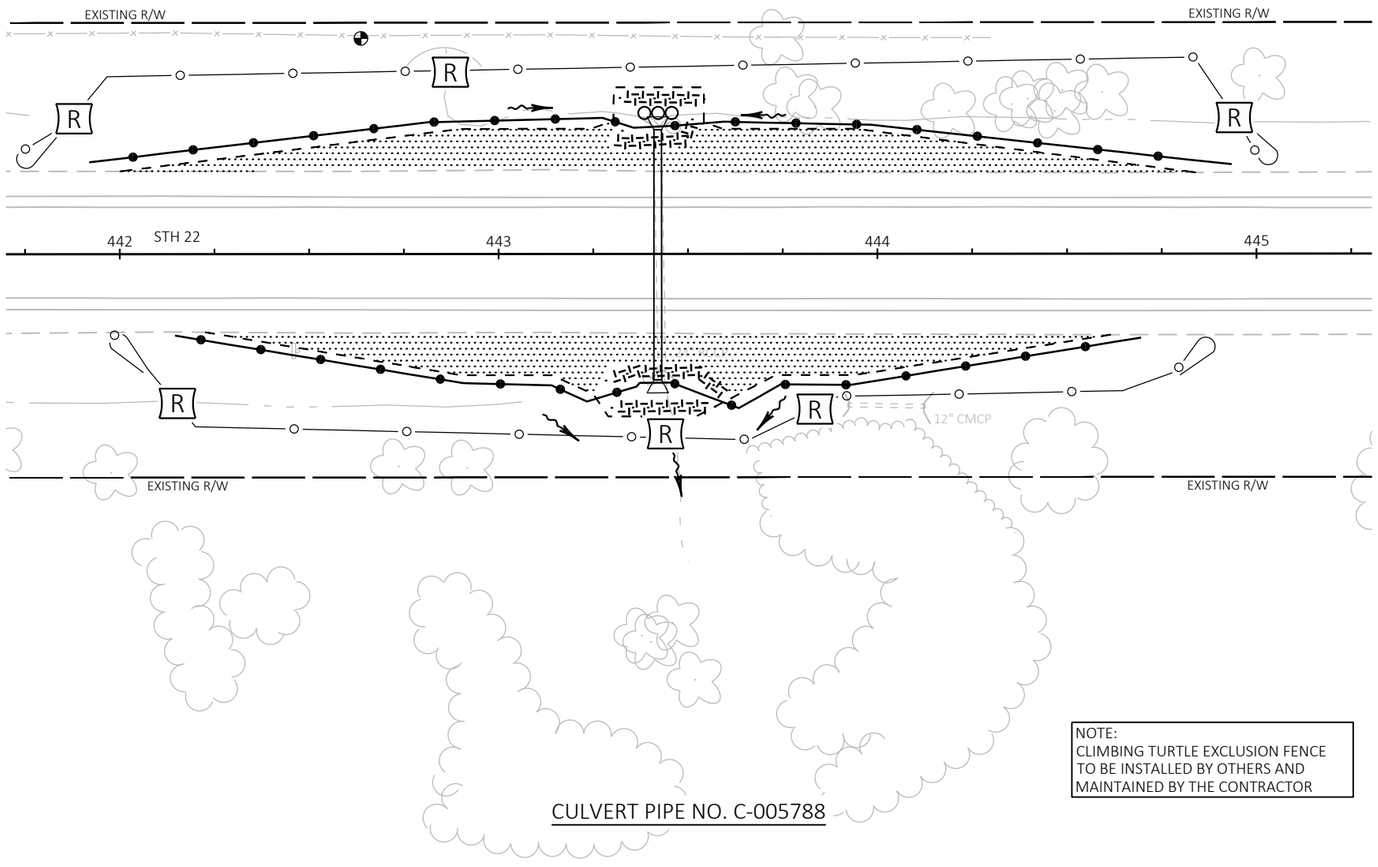


CULVERT PIPE NO. C-005787

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

N



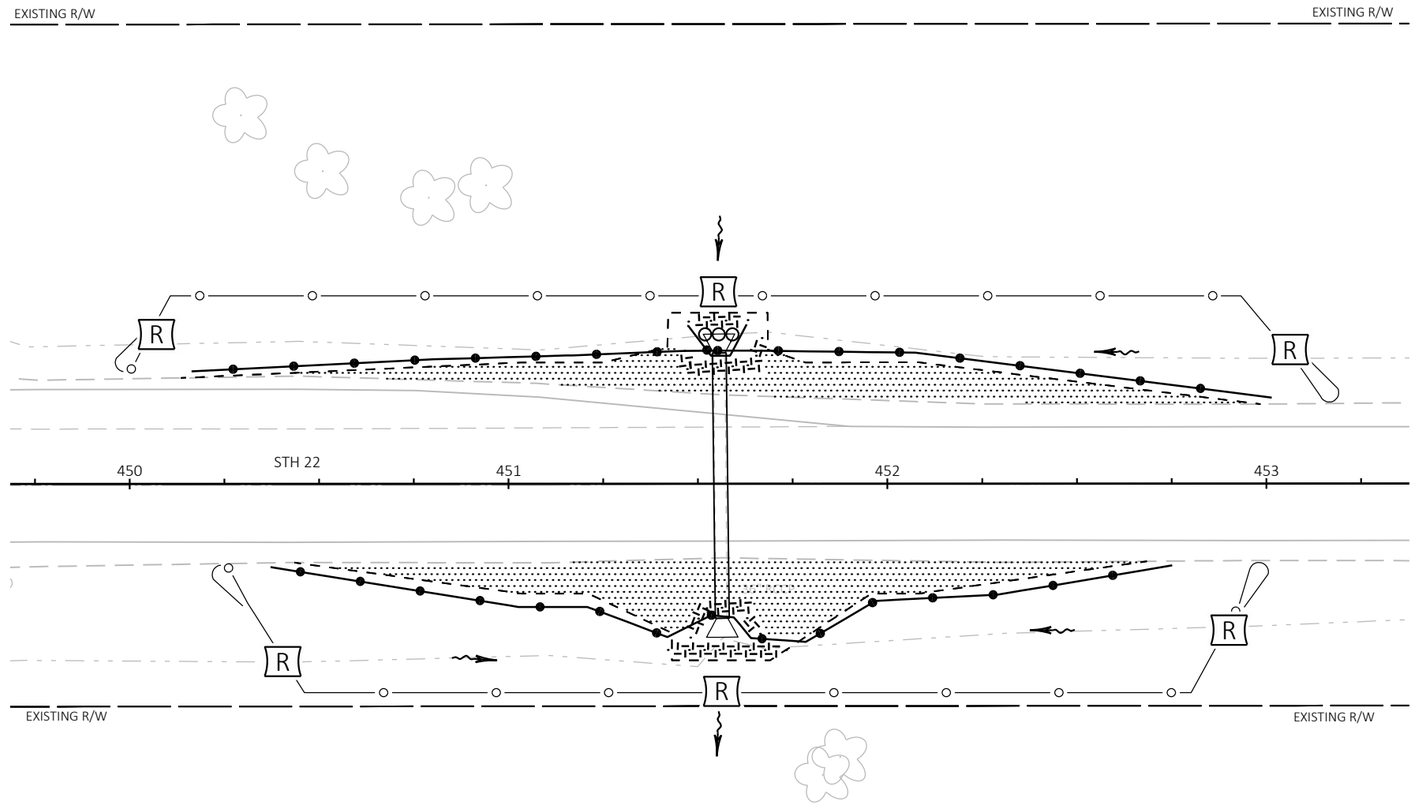
CULVERT PIPE NO. C-005788

NOTE:
CLIMBING TURTLE EXCLUSION FENCE TO BE INSTALLED BY OTHERS AND MAINTAINED BY THE CONTRACTOR

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

N



NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

CULVERT PIPE NO. C-005790

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

N

EXISTING R/W

SIGN

" CMCP

457 458 STH 22 459 460 461 462

MATCH LINE STA 463+00

EXISTING R/W

EXISTING R/W

EXISTING R/W

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

CULVERT PIPE NO. C-005791

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 76	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022021-ec

PLOT DATE : 11/19/2025 7:58 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : ##########

2

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

N

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

EXISTING R/W

SLAB

EXISTING R/W

MATCH LINE STA 463+00

463

STH 22

464

465

466

467

468

469

36" CMCP

18" CMCP

24" RCCP

EXISTING R/W

PENSAUKEE RD

EXISTING R/W

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 77	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022022-ec

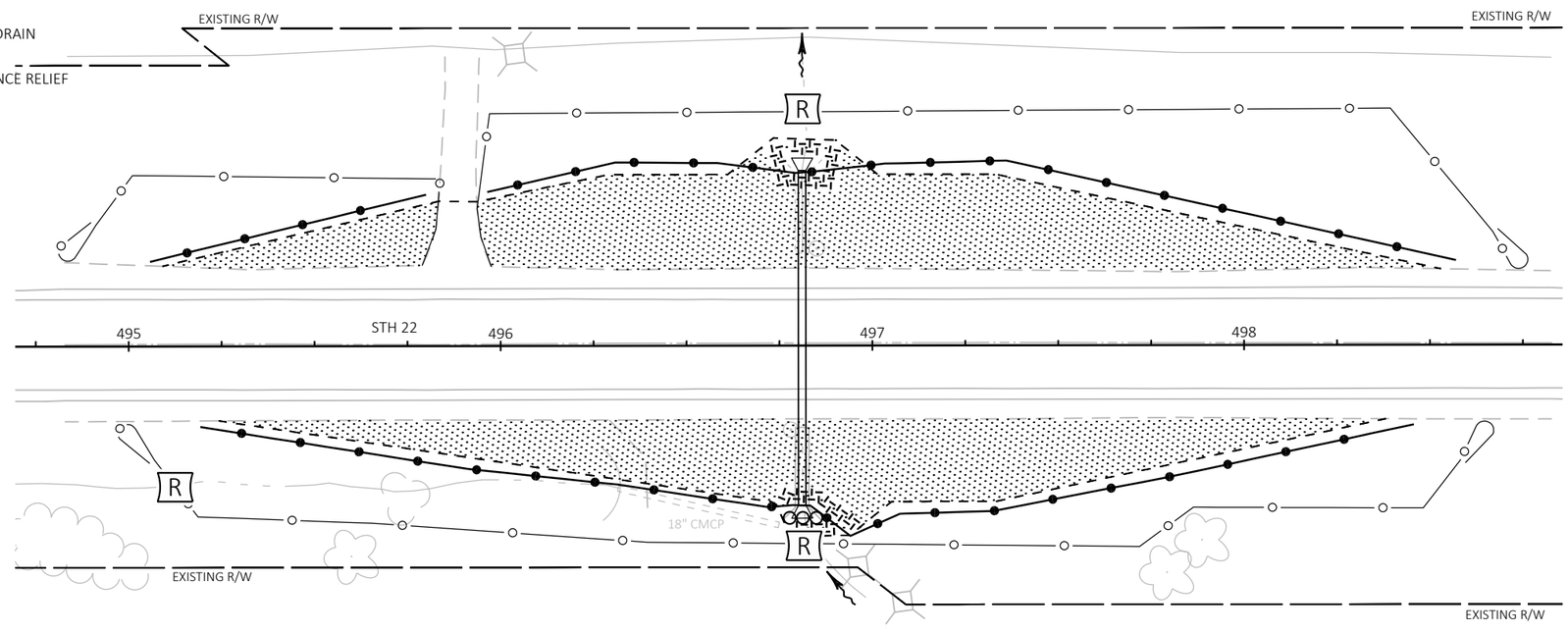
PLOT DATE : 11/19/2025 7:58 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

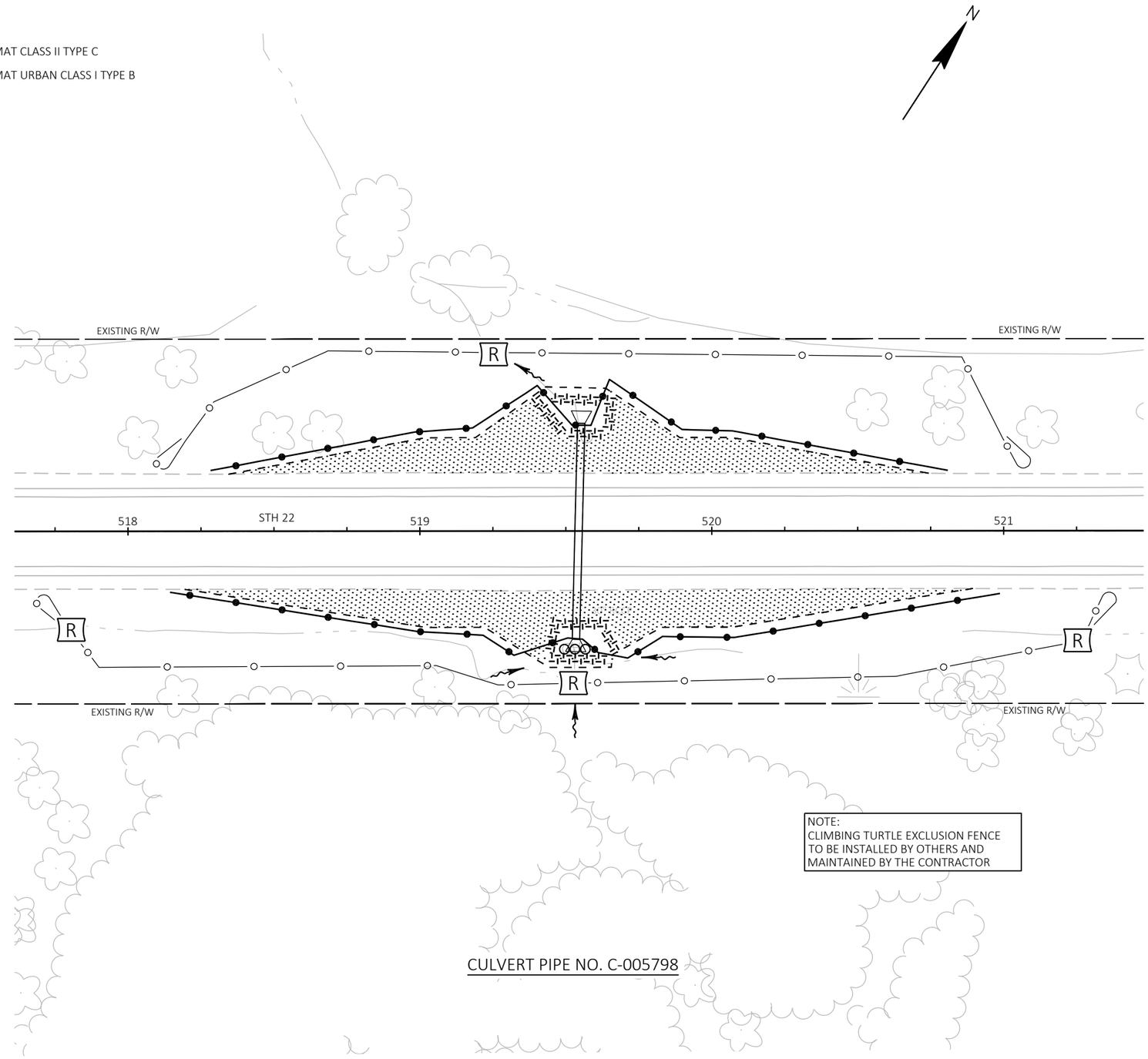


NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

CULVERT PIPE NO. C-005793

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME



NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

CULVERT PIPE NO. C-005798

2

2

EXISTING R/W

EXISTING R/W

STH 22

539

540

541

542

543

544

30" CMCP

10" CMCP

CONC

CONC

PCP

R

R

R

R

MATCH LINE STA 544+25

EXISTING R/W

EXISTING R/W

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

GUARDRAIL DETAIL STH 22
STA 539+35.6 - STA 543+91.2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

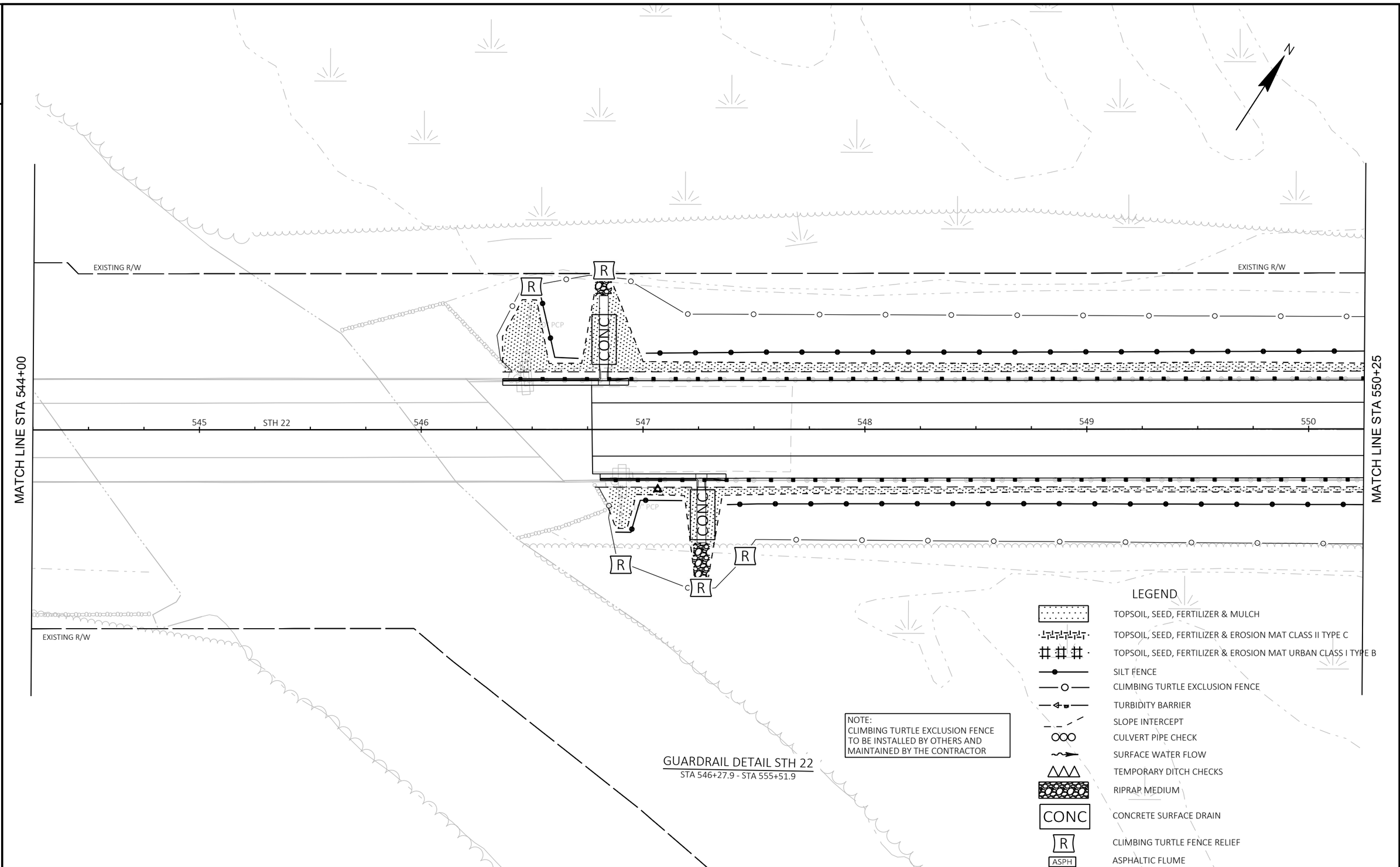
PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 80	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022025-ec

PLOT DATE : 11/19/2025 7:59 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

NOTE:
CLIMBING TURTLE EXCLUSION FENCE TO BE INSTALLED BY OTHERS AND MAINTAINED BY THE CONTRACTOR

GUARDRAIL DETAIL STH 22
STA 546+27.9 - STA 555+51.9

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 81	E

2

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

N

EXISTING R/W

POST

R

EXISTING R/W

R

MATCH LINE STA 550+25

551 STH 22 552 553 554 555 556

R

R

POST

EXISTING R/W

EXISTING R/W

GUARDRAIL DETAIL STH 22

STA 546+27.9 - STA 555+51.9

NOTE:
CLIMBING TURTLE EXCLUSION FENCE TO BE INSTALLED BY OTHERS AND MAINTAINED BY THE CONTRACTOR

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 82	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022027-ec

PLOT DATE : 11/19/2025 7:59 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

N

EXISTING R/W

EXISTING R/W

570 571 STH 22 572 573 574 575

EXISTING R/W

EXISTING R/W

W

W

SLAB

SEPTIC

W

A/C

CULVERT PIPE NO. C-005801

NOTE:
CLIMBING TURTLE EXCLUSION FENCE TO BE INSTALLED BY OTHERS AND MAINTAINED BY THE CONTRACTOR

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 83	E

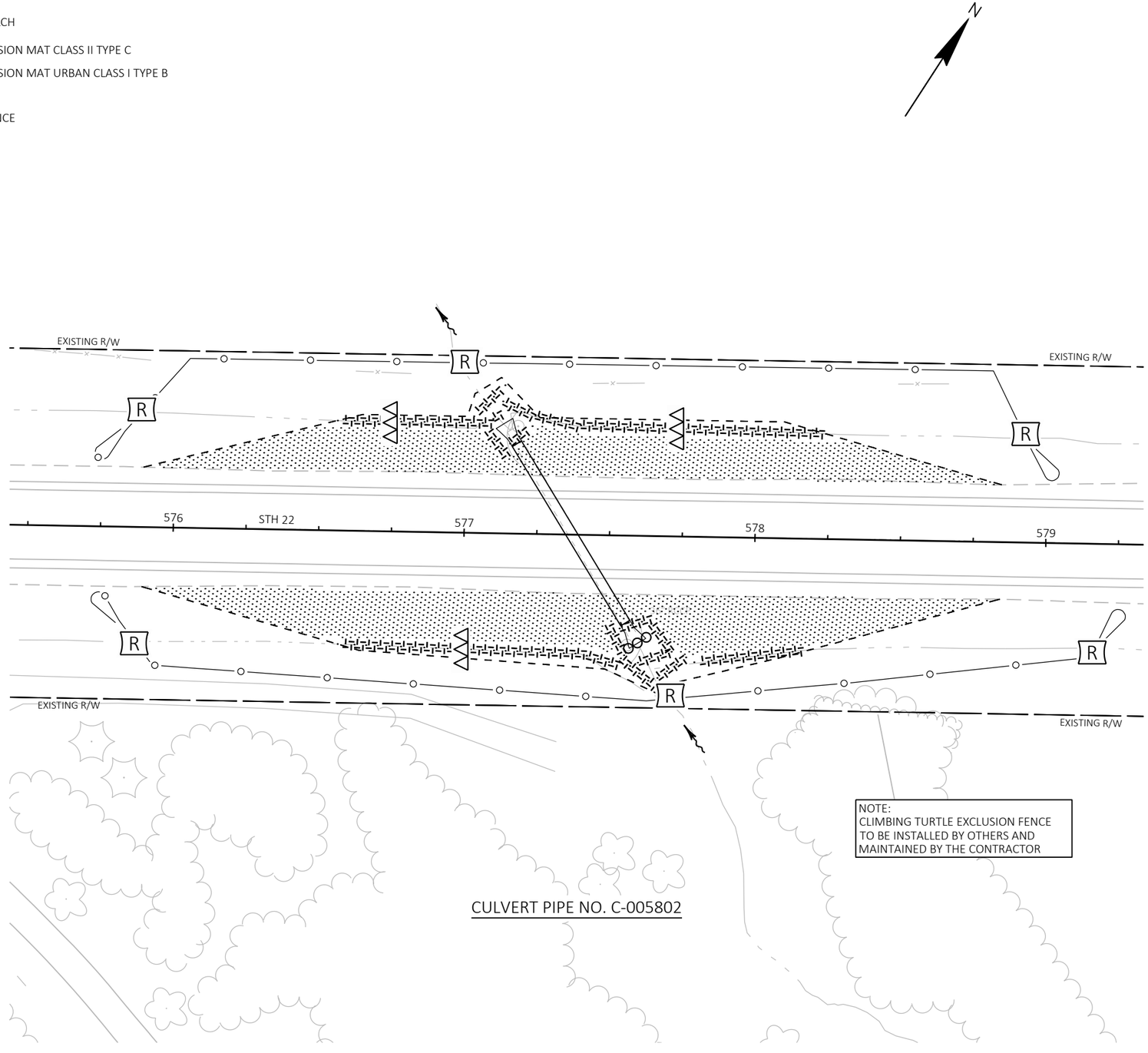
FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022028-ec

PLOT DATE : 11/19/2025 7:59 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : ##########

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME



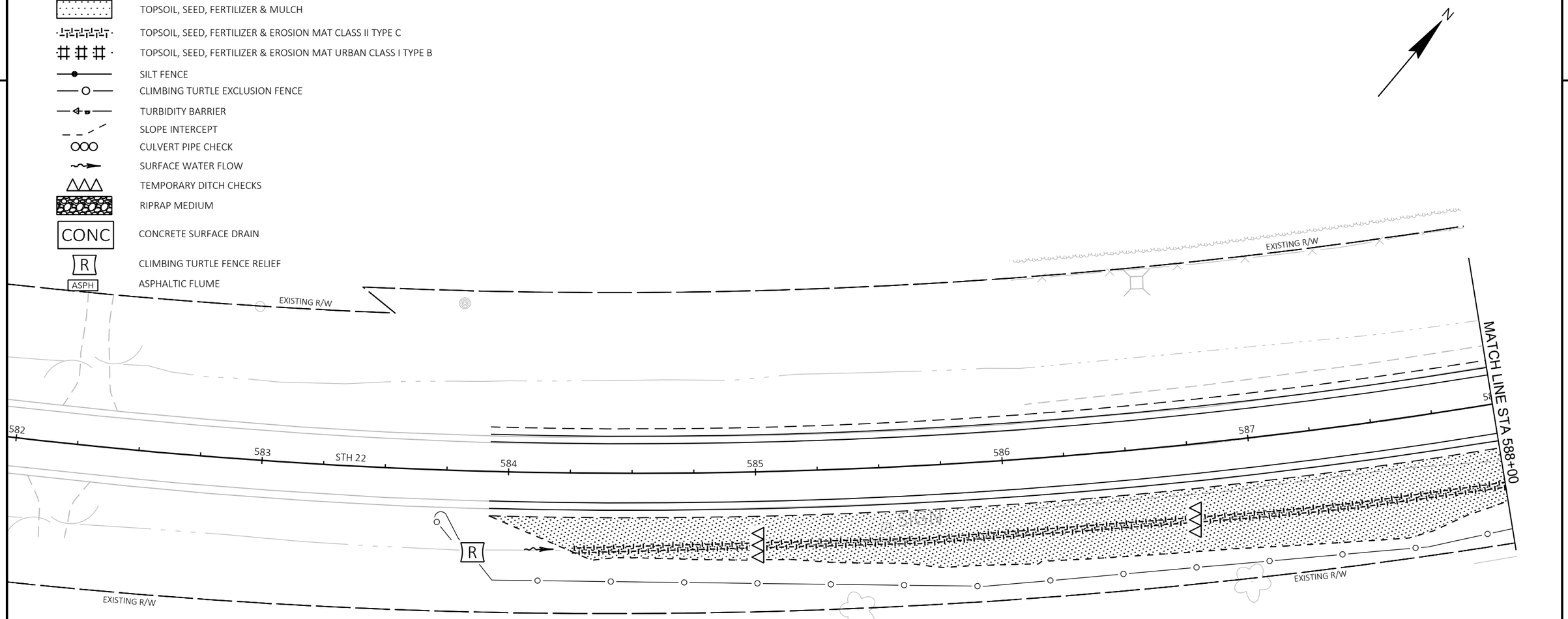
PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 84	E

2

2

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME



NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 85	E

NOTE:
CLIMBING TURTLE EXCLUSION FENCE
TO BE INSTALLED BY OTHERS AND
MAINTAINED BY THE CONTRACTOR

EXISTING R/W

EXISTING R/W

EXISTING R/W

MATCH LINE STA 588+00

STH 22

588 589 590 591 592 593 594

RIPRAP HEAVY REQ'D

EXISTING R/W

EXISTING R/W

R/W LINE

TLE LINE

TLE LINE

R/W LINE

CULVERT PIPE NO. C-007482

SIGN

CTH C

11

12

EXISTING R/W

EXISTING R/W

LEGEND

- TOPSOIL, SEED, FERTILIZER & MULCH
- TOPSOIL, SEED, FERTILIZER & EROSION MAT CLASS II TYPE C
- TOPSOIL, SEED, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- CLIMBING TURTLE EXCLUSION FENCE
- TURBIDITY BARRIER
- SLOPE INTERCEPT
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- RIPRAP MEDIUM
- CONC — CONCRETE SURFACE DRAIN
- R — CLIMBING TURTLE FENCE RELIEF
- ASPH — ASPHALTIC FLUME

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 86	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022031-ec

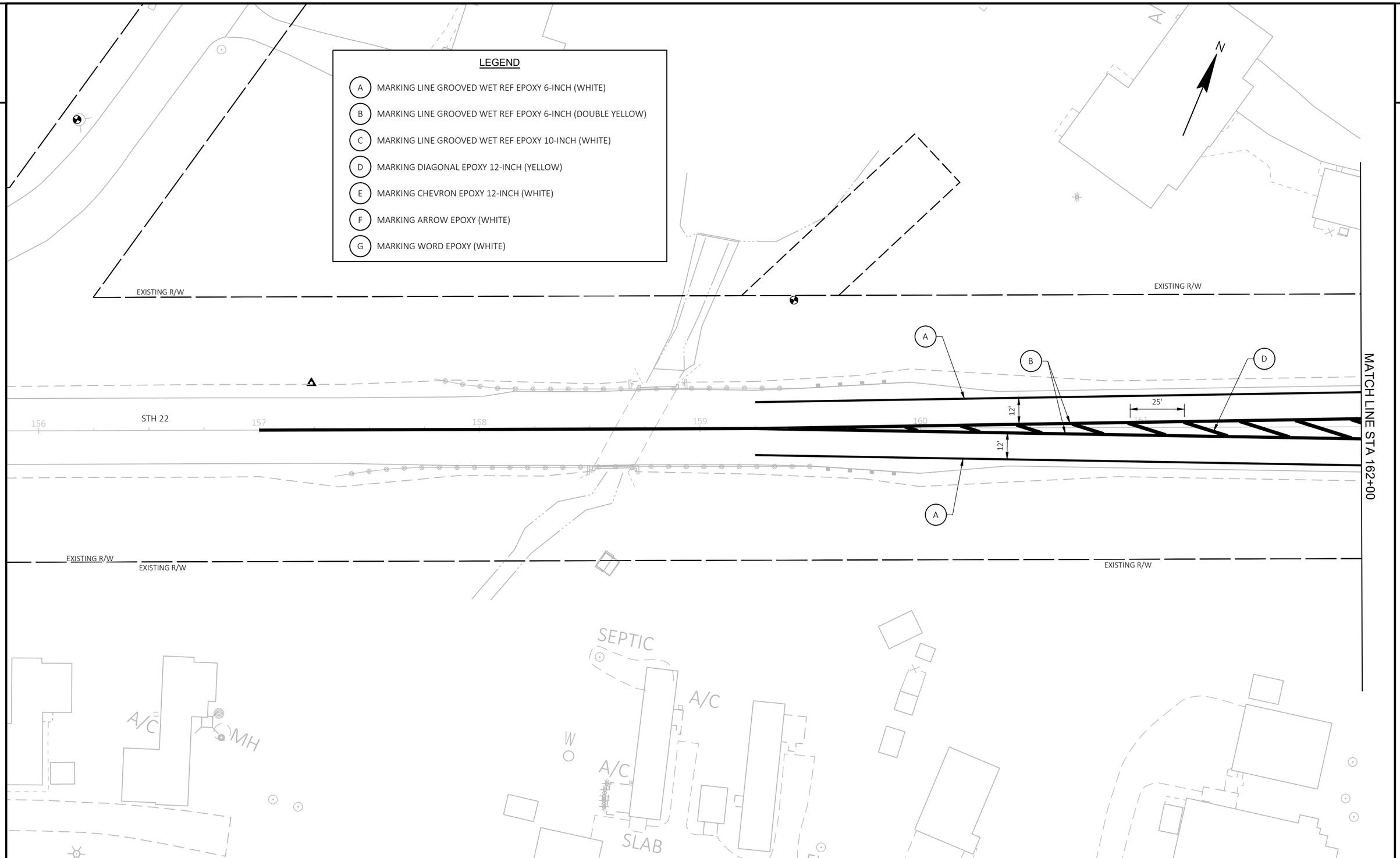
PLOT DATE : 11/19/2025 8:00 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- (A) MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- (B) MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)
- (C) MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- (D) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (E) MARKING CHEVRON EPOXY 12-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)



PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PAVEMENT MARKING	SHEET 87	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-pm

PLOT DATE : 6/24/2025 7:59 AM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MH

EXISTING R/W

CHANNEL DR

POST

SIGN

EXISTING R/W

RESORT RD

EXISTING R/W

N

CONSTRUCTION LIMITS STA 10+93.8

SIGN

FRONTAGE RD

SIGN

MATCH LINE STA 162+00

STH 22

25'

12'

3'

A

B

D

STA 162+25.0
6.0' RT

STA 162+25.0
18.0' RT

STA 163+75.0
18.0' LT

STA 163+75.0
6.0' LT

F

18'

STA 164+33.1
18.0' RT

STA 165+29.1
18.0' LT

G

C

ONLY

165

166

STA 167+08.3
6.0' LT

6' R

STA 167+08.3
6.0' RT

STA 167+47.7
17.5' RT

MATCH LINE STA 168+00

EXISTING R/W

EXISTING R/W

TILE LINE

R/W LINE

RESORT RD

R/W LINE

CONSTRUCTION LIMITS
STA 8+21.3

EXISTING R/W

EXISTING R/W

LEGEND

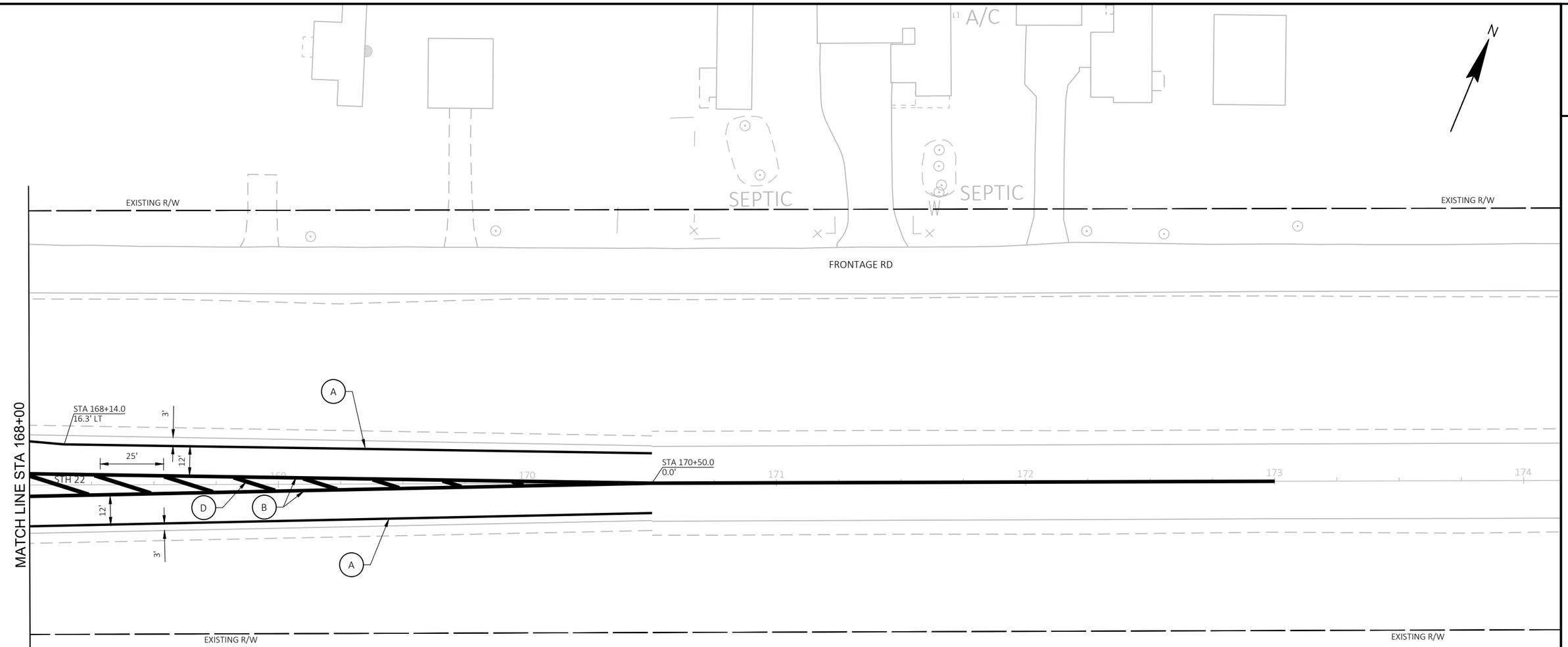
- (A) MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- (B) MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)
- (C) MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- (D) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (E) MARKING CHEVRON EPOXY 12-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PAVEMENT MARKING	SHEET 88	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024502-pm

PLOT DATE : 6/24/2025 7:59 AM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

- (A) MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- (B) MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)
- (C) MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- (D) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (E) MARKING CHEVRON EPOXY 12-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PAVEMENT MARKING	SHEET 89	E

2

EXISTING R/W

N MEYER ST

SIGN

SIGN

MH

SIGN

EXISTING R/W

N MEYER ST

CONSTRUCTION LIMITS
STA 9+45.8

W BAEHR ST

N

30" CMCP

A

STA 314+96.6
19.7' LT

5'

12'

25'

STA 315+28.2
7.7' LT

311

STH 22

312

313

314

315

316

STA 312+37.2
0.0'

15.5'

7.8' R

D

12'

STA 315+28.2
7.8' RT

B

A

5'

STA 314+56.8
18.5' RT

A

STA 316+94.7
20.0' LT

5'

C

25'

E

4'

12'

B

F

STA 316+88.6
20.0' RT

12'

5'

A

MATCH LINE STA 317+00

SLAB

18" CMCP

GOLF VIEW RD

SIGN

CONSTRUCTION LIMITS
STA 10+68.1

EXISTING R/W

SIGN

N WARRINGTON AVE

MH

SIGN

SIGN

LEMKE ST

SLAB

FLAG

LEGEND

- (A) MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- (B) MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)
- (C) MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- (D) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (E) MARKING CHEVRON EPOXY 12-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PAVEMENT MARKING	SHEET 90	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024504-pm

PLOT DATE : 6/24/2025 7:59 AM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

EXISTING R/W

N MEYER ST

MATCH LINE STA 317+00

MATCH LINE STA 323+00

STA 317+96.3
8.0' LT

STA 319+46.8
8.0' LT

STA 322+40.6
20.0' LT

STA 318+97.3
8.0' RT

STA 317+46.3
4.0' LT

STA 317+46.8
8.0' RT

STA 319+47.3
4.0' RT

STH 22

318

320

321

322

25'

4'

5'

12'

30" RCCP

GOLF VIEW RD

18" CMCP

EXISTING R/W

SIGN

SLAB

POST

MDW VW RD

MH

MH

INL

LEGEND

- A — MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- B — MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)
- C — MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- D — MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- E — MARKING CHEVRON EPOXY 12-INCH (WHITE)
- F — MARKING ARROW EPOXY (WHITE)
- G — MARKING WORD EPOXY (WHITE)

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PAVEMENT MARKING	SHEET 91	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024505-pm

PLOT DATE : 6/24/2025 7:59 AM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- (A) MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)
- (B) MARKING LINE GROOVED WET REF EPOXY 6-INCH (DOUBLE YELLOW)
- (C) MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)
- (D) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (E) MARKING CHEVRON EPOXY 12-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)

N

MH

CTH R

EXISTING R/W

CONSTRUCTION LIMITS
STA 10+73.9

CMCP

EXISTING R/W

MATCH LINE STA 323+00

STH 22

STA 324+88.5
18.8' LT

STA 324+18.4
7.7' LT

25'

3'

12'

A

STA 333+39.1
0.0'

7.8' R

15.5'

STA 324+18.4
7.8' RT

D

12'

3'

B

A

5'

STA 324+38.7
20.0' RT

EXISTING R/W

EXISTING R/W

MDW VW RD

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	PAVEMENT MARKING	SHEET 92	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024506-pm

PLOT DATE : 6/24/2025 7:59 AM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTE: SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

LEGEND

XXX — SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

WORK AREA

PLACE FIXED MESSAGE SIGNS (G20-57C) 7 DAYS PRIOR TO CLOSURE AND REMOVE WHEN CLOSURE BEGINS.

N

129 HWY 22 ROAD CLOSED BEGINS XXX-XX — G20-57C 72"X36"

FOLLOW DETOUR — USE ONLY ONCE WHEN ROAD IS CLOSED

123 SOUTH M3-3 24"X12" / 22 M1-6 24"X24"

DETOUR AHEAD W20-2A

125 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 22 M1-6 24"X24" / P MO5-1L 21"X21"

MODIFY A4-12 14"X14" — Shawano / Green Bay / Oconto

124 NORTH SOUTH SOUTH 22 32 22

126 MODIFY MO6-2 21"X21"

121 SOUTH COVER — DETAIL 1

122 SOUTH COVER

127 SOUTH COVER

128 ROAD CLOSED TO THRU TRAFFIC 4 MILES AHEAD R11-3 60"X30"

130 ROAD CLOSED TO THRU TRAFFIC R11-4 60"X30"

131 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 22 M1-6 24"X24" / MO5-1R 21"X21"

120 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24"

134 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 22 M1-6 24"X24" / MO6-1 21"X21"

133 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 22 M1-6 24"X24"

135 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 22 M1-6 24"X24"

MODIFY A4-12 14"X14" — Gillett / Oconto / Bonduel

104 143 END DETOUR M4-8A 24"X18"

101 NORTH M3-1 24"X12" / 22 M1-6 24"X24"

DETOUR AHEAD W20-2A

103 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24" / MO5-1R 21"X21"

107 ROAD CLOSED TO THRU TRAFFIC R11-4 60"X30"

142 SOUTH M3-3 24"X12" / 22 M1-6 24"X24" / MO6-1 21"X21"

WORK ZONE

141 COVER

140 Shawano / Gillett / Oconto COVER

139 SOUTH NORTH 22 COVER

116 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24"

117 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24" / MO6-1 21"X21"

118 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24" / M5-1L 21"X21"

132 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 22 M1-6 24"X24" / MO6-1 21"X21"

119 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24" / MO6-1 21"X21"

HWY 22 ROAD CLOSED BEGINS XXX-XX — G20-57C 72"X36"

FOLLOW DETOUR — USE ONLY ONCE WHEN ROAD IS CLOSED

105 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24" / MO6-1 21"X21"

102 NORTH SOUTH 22 117 — MODIFY — MO5-1R 21"X21"

106

108 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24"

109 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24" / M5-1L 21"X21"

110 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24" / MO6-1 21"X21"

111 NORTH M3-1 24"X12" / 22 M1-6 24"X24"

DETOUR AHEAD W20-2A

112 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24" / MO5-1R 21"X21"

113 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24" / MO6-1 21"X21"

114 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24"

138 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 22 M1-6 24"X24" / MO6-1 21"X21"

137 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 22 M1-6 24"X24" / MO5-1R 21"X21"

115 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 22 M1-6 24"X24" / MO6-1 21"X21"

136 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 22 M1-6 24"X24" / MO6-1 21"X21"

160

SHEET 1 OF 2

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	DETOUR ROUTE	SHEET 93	E

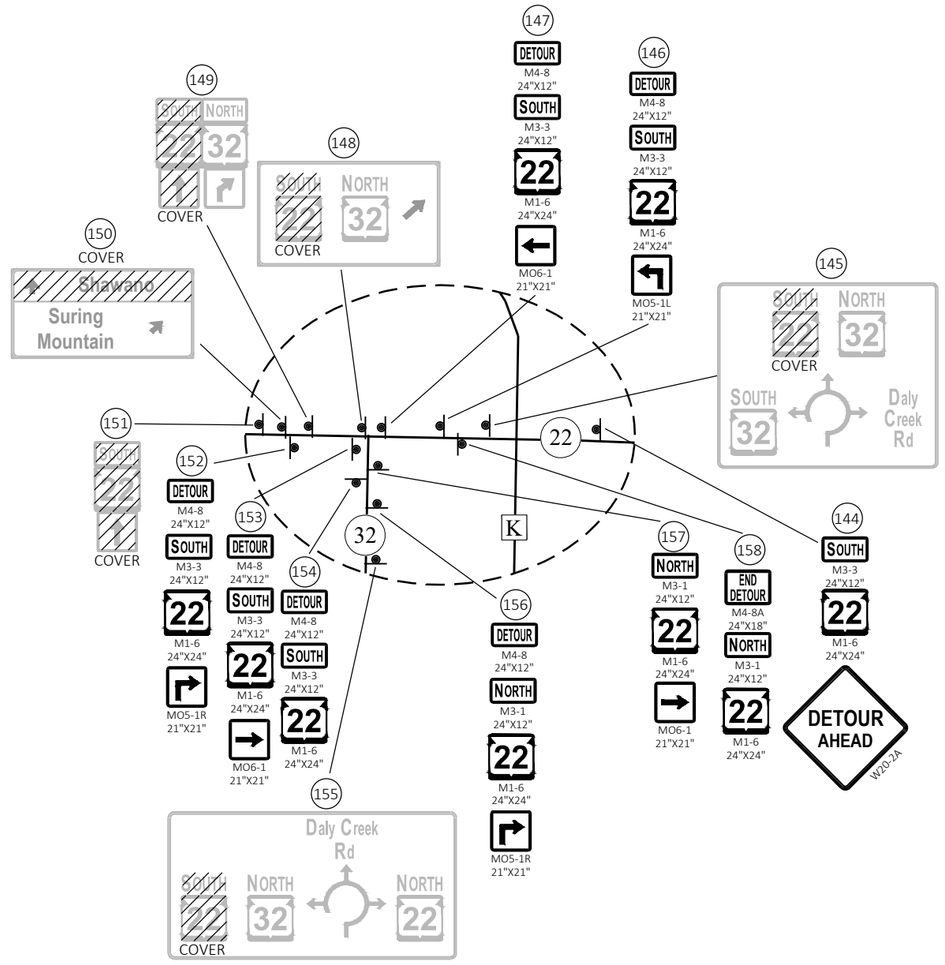
FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 027001-dt

PLOT DATE : 5/16/2025 11:21 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:2 MI

WISDOT/CADDS SHEET 42

2

N



DETAIL 1

NOTE: SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

LEGEND

XXX	SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
	TYPE III BARRICADE WITH ATTACHED SIGN
	SIGN ON PERMANENT SUPPORT
	WORK AREA

SHEET 2 OF 2

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	DETOUR ROUTE	SHEET 94	E

GENERAL NOTES FOR TRAFFIC CONTROL

CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL MUTCD AND WISDOT STANDARD DETAIL DRAWING (SDD) GUIDELINES.

PROVIDE FLAGGERS AT ALL SIDE ROADS, AS REQUIRED, TO MAINTAIN ACCESS DURING CONSTRUCTION OPERATIONS.

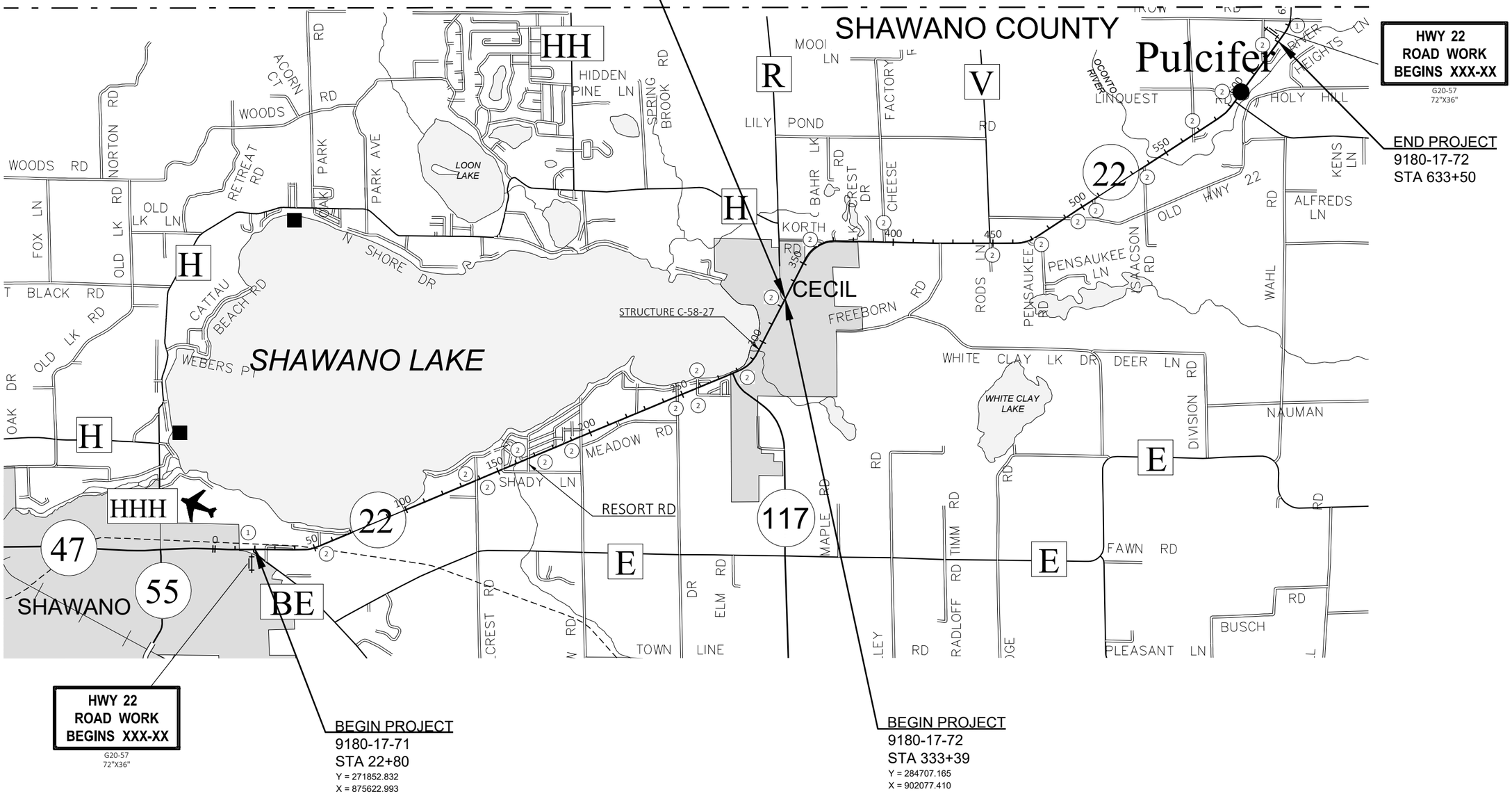
LONGITUDINAL JOINT REPAIRS WORK TO BE COMPLETED WITH FLAGGING OPERATION. COMPLETE LONGITUDINAL JOINT REPAIRS SEQUENTIALLY FOLLOWING THE REMOVING ASPHALTIC SURFACE MILLING WORK OPERATIONS.

PLACE FIXED MESSAGE SIGNS (G20-57) 7 DAYS PRIOR TO BEGINNING STAGE 2 AND REMOVE WHEN STAGE 2 BEGINS.

LEGEND

(1) SEE SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

(2) SEE "TYPICAL SIDE ROAD APPROACH WARNING DETAIL" ON SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC"



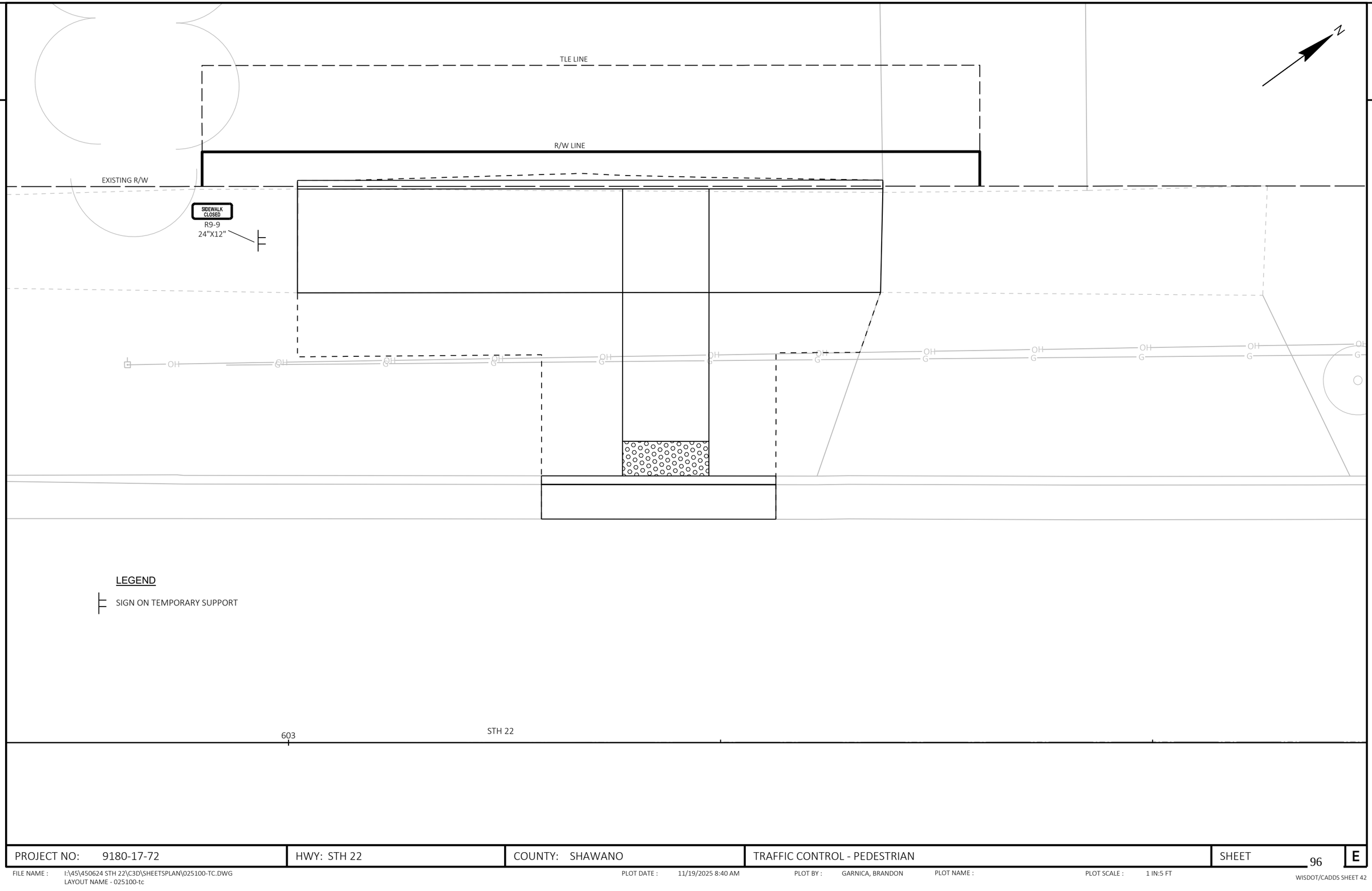
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL OVERVIEW - STAGE 2	SHEET 95 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\027003-DT.DWG
LAYOUT NAME - 027003-dt

PLOT DATE : 5/16/2025 11:22 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:1 MI

WISDOT/CADDS SHEET 42

2



LEGEND

SIGN ON TEMPORARY SUPPORT

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - PEDESTRIAN	SHEET 96	E

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	9180-17-71 Qty	9180-17-72 Qty
0002	201.0205	Grubbing	STA	40.000	14.000	26.000
0004	203.0100	Removing Small Pipe Culverts	EACH	19.000	10.000	9.000
0006	203.0211.S	Abatement of Asbestos Containing Material (structure) 01. C-58-27	EACH	1.000	1.000	
0008	203.0220	Removing Structure (structure) 01. STA 496+81 Cattle Pass	EACH	1.000		1.000
0010	203.0220	Removing Structure (structure) 02. STA 590+47 Cattle Pass	EACH	1.000		1.000
0012	204.0100	Removing Concrete Pavement	SY	120.000		120.000
0014	204.0110	Removing Asphaltic Surface	SY	8,610.000	7,980.000	630.000
0016	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,610.000	950.000	660.000
0018	204.0120	Removing Asphaltic Surface Milling	SY	222,000.000	113,500.000	108,500.000
0020	204.0150	Removing Curb & Gutter	LF	300.000	130.000	170.000
0022	204.0165	Removing Guardrail	LF	3,730.000	720.000	3,010.000
0024	205.0100	Excavation Common	CY	12,322.000	4,623.000	7,699.000
0026	208.0100	Borrow	CY	3,991.000	1,060.000	2,931.000
0028	208.1500.S	Temporary Lane Shift During Culvert Work	EACH	26.000	8.000	18.000
0030	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 9180-17-71	EACH	1.000	1.000	
0032	211.0101	Prepare Foundation for Asphaltic Paving (project) 02. 9180-17-72	EACH	1.000		1.000
0034	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	346.000	325.000	21.000
0036	211.0700.S	Prepare Foundation for CIR Base Layer (project) 01. 9180-17-71	EACH	1.000	1.000	
0038	211.0700.S	Prepare Foundation for CIR Base Layer (project) 02. 9180-17-72	EACH	1.000		1.000
0040	211.0800.S	Base Repair for CIR Layer	CY	1,000.000	500.000	500.000
0042	213.0100	Finishing Roadway (project) 01. 9180-17-71	EACH	1.000	1.000	
0044	213.0100	Finishing Roadway (project) 02. 9180-17-72	EACH	1.000		1.000
0046	305.0110	Base Aggregate Dense 3/4-Inch	TON	9,250.000	4,990.000	4,260.000
0048	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	8,710.000	5,990.000	2,720.000
0050	305.0500	Shaping Shoulders	STA	21.000		21.000
0052	327.1000.S	CIR Asphaltic Base Layer	SY	144,360.000	75,680.000	68,680.000
0054	416.0610	Drilled Tie Bars	EACH	32.000		32.000
0056	450.4000	HMA Cold Weather Paving	TON	2,100.000	1,050.000	1,050.000
0058	455.0605	Tack Coat	GAL	34,486.000	18,516.000	15,970.000
0060	455.0770.S	Asphalt Stabilizing Agent	TON	1,010.000	530.000	480.000
0062	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	2.000	1.000	1.000
0064	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	3.000	1.000	2.000
0066	460.2005	Incentive Density PWL HMA Pavement	DOL	27,830.000	14,022.000	13,808.000
0068	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	24,200.000	12,190.000	12,010.000
0070	460.2010	Incentive Air Voids HMA Pavement	DOL	43,200.000	24,100.000	19,100.000
0072	460.6223	HMA Pavement 3 MT 58-28 S	TON	1,400.000	1,400.000	
0074	460.6224	HMA Pavement 4 MT 58-28 S	TON	24,700.000	13,500.000	11,200.000
0076	460.6245	HMA Pavement 5 MT 58-34 S	TON	17,100.000	9,200.000	7,900.000
0078	465.0105	Asphaltic Surface	TON	2,400.000	620.000	1,780.000
0080	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	240.000	195.000	45.000
0082	465.0315	Asphaltic Flumes	SY	36.000	36.000	
0084	465.0560	Asphaltic Rumble Strips, Centerline	LF	39,584.000	15,124.000	24,460.000
0086	507.0200	Treated Lumber and Timber	MBM	0.100	0.100	
0088	509.0301	Preparation Decks Type 1	SY	16.000	16.000	
0090	509.0302	Preparation Decks Type 2	SY	8.000	8.000	
0092	509.0310.S	Sawing Pavement Deck Preparation Areas	LF	160.000	160.000	
0094	509.1200	Curb Repair	LF	25.000	25.000	
0096	509.1500	Concrete Surface Repair	SF	34.000	34.000	
0098	509.2100.S	Concrete Masonry Deck Repair	CY	2.000	2.000	

					9180-17-71	9180-17-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0100	509.9010.S	Removing Asphaltic Concrete Deck Overlay (structure) 01. C-58-27	SY	78.000	78.000	
0102	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	6.000	6.000	
0104	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	6.000		6.000
0106	520.1030	Apron Endwalls for Culvert Pipe 30-Inch	EACH	8.000	4.000	4.000
0108	520.1036	Apron Endwalls for Culvert Pipe 36-Inch	EACH	4.000	2.000	2.000
0110	520.3618	Culvert Pipe Class III-B Non-metal 18-Inch	LF	160.000	160.000	
0112	520.3624	Culvert Pipe Class III-B Non-metal 24-Inch	LF	276.000		276.000
0114	520.3630	Culvert Pipe Class III-B Non-metal 30-Inch	LF	272.000	102.000	170.000
0116	520.3636	Culvert Pipe Class III-B Non-metal 36-Inch	LF	272.000	76.000	196.000
0118	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	276.000		276.000
0120	522.0436	Culvert Pipe Reinforced Concrete Class IV 36-Inch	LF	170.000		170.000
0122	522.0454	Culvert Pipe Reinforced Concrete Class IV 54-Inch	LF	196.000		196.000
0124	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	4.000		4.000
0126	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	4.000		4.000
0128	522.1054	Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch	EACH	2.000		2.000
0130	522.2429	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	208.000	208.000	
0132	522.2434	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	LF	216.000	216.000	
0134	522.2629	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	6.000	6.000	
0136	522.2634	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	EACH	4.000	4.000	
0138	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	160.000		160.000
0140	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	281.000	281.000	
0142	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	152.000		152.000
0144	601.0590	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	LF	80.000		80.000
0146	601.0600	Concrete Curb Pedestrian	LF	25.000		25.000
0148	602.0405	Concrete Sidewalk 4-Inch	SF	205.000		205.000
0150	602.0415	Concrete Sidewalk 6-Inch	SF	150.000		150.000
0152	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	20.000		20.000
0154	602.3010	Concrete Surface Drains	CY	12.000		12.000
0156	606.0200	Riprap Medium	CY	40.000	12.000	28.000
0158	606.0300	Riprap Heavy	CY	14.000		14.000
0160	611.8115	Adjusting Inlet Covers	EACH	18.000		18.000
0162	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	2.000	2.000	
0164	614.2300	MGS Guardrail 3	LF	1,900.000	125.000	1,775.000
0166	614.2340	MGS Guardrail 3 L	LF	225.000	225.000	
0168	614.2350	MGS Guardrail Short Radius	LF	25.500	13.000	12.500
0170	614.2500	MGS Thrie Beam Transition	LF	158.400		158.400
0172	614.2610	MGS Guardrail Terminal EAT	EACH	12.000	7.000	5.000
0174	614.2630	MGS Guardrail Short Radius Terminal	EACH	2.000	1.000	1.000
0176	618.0100	Maintenance and Repair of Haul Roads (project) 01. 9180-17-71	EACH	1.000	1.000	
0178	618.0100	Maintenance and Repair of Haul Roads (project) 02. 9180-17-72	EACH	1.000		1.000
0180	619.1000	Mobilization	EACH	1.000	0.500	0.500
0182	624.0100	Water	MGAL	100.000	86.000	14.000
0184	625.0100	Topsoil	SY	43,300.000	19,800.000	23,500.000
0186	627.0200	Mulching	SY	33,000.000	14,100.000	18,900.000
0188	628.1504	Silt Fence	LF	13,200.000	5,000.000	8,200.000
0190	628.1520	Silt Fence Maintenance	LF	26,400.000	10,000.000	16,400.000
0192	628.1905	Mobilizations Erosion Control	EACH	12.000	6.000	6.000
0194	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	3.000	3.000
0196	628.2008	Erosion Mat Urban Class I Type B	SY	1,200.000	1,200.000	

					9180-17-71	9180-17-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0198	628.2027	Erosion Mat Class II Type C	SY	9,500.000	4,900.000	4,600.000
0200	628.6005	Turbidity Barriers	SY	70.000	70.000	
0202	628.7005	Inlet Protection Type A	EACH	18.000		18.000
0204	628.7015	Inlet Protection Type C	EACH	18.000		18.000
0206	628.7504	Temporary Ditch Checks	LF	1,150.000	680.000	470.000
0208	628.7555	Culvert Pipe Checks	EACH	204.000	120.000	84.000
0210	629.0210	Fertilizer Type B	CWT	32.000	15.000	17.000
0212	630.0120	Seeding Mixture No. 20	LB	810.000	370.000	440.000
0214	630.0500	Seed Water	MGAL	1,000.000	450.000	550.000
0216	633.5200	Markers Culvert End	EACH	38.000	16.000	22.000
0218	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	15.000	8.000	7.000
0220	638.2102	Moving Signs Type II	EACH	15.000	8.000	7.000
0222	642.5001	Field Office Type B	EACH	1.000	1.000	
0224	643.0300	Traffic Control Drums	DAY	14,460.000	7,230.000	7,230.000
0226	643.0900	Traffic Control Signs	DAY	15,891.000	9,851.000	6,040.000
0228	643.0920	Traffic Control Covering Signs Type II	EACH	12.000	12.000	
0230	643.1000	Traffic Control Signs Fixed Message	SF	72.000	36.000	36.000
0232	643.3165	Temporary Marking Line Paint 6-Inch	LF	166,960.000	80,010.000	86,950.000
0234	643.3265	Temporary Marking Line Paint 10-Inch	LF	1,690.000	1,530.000	160.000
0236	643.5000	Traffic Control	EACH	1.000	0.500	0.500
0238	645.0120	Geotextile Type HR	SY	170.000	34.000	136.000
0240	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	166,960.000	80,010.000	86,950.000
0242	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	1,690.000	1,530.000	160.000
0244	646.5020	Marking Arrow Epoxy	EACH	6.000	6.000	
0246	646.5120	Marking Word Epoxy	EACH	2.000	2.000	
0248	646.6466	Cold Weather Marking Epoxy 6-Inch	LF	166,960.000	80,010.000	86,950.000
0250	646.7120	Marking Diagonal Epoxy 12-Inch	LF	700.000	700.000	
0252	646.7320	Marking Chevron Epoxy 12-Inch	LF	145.000	145.000	
0254	648.0100	Locating No-Passing Zones	MI	0.990	0.990	
0256	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	441.000	281.000	160.000
0258	650.6000	Construction Staking Pipe Culverts	EACH	22.000	11.000	11.000
0260	650.6501	Construction Staking Structure Layout (structure) 01. C-58-27	EACH	1.000	1.000	
0262	650.8000	Construction Staking Resurfacing Reference	LF	60,870.000	31,070.000	29,800.000
0264	650.9000	Construction Staking Curb Ramps	EACH	2.000		2.000
0266	650.9500	Construction Staking Sidewalk (project) 01. 9180-17-72	EACH	1.000		1.000
0268	650.9911	Construction Staking Supplemental Control (project) 01. 9180-17-71	EACH	1.000	1.000	
0270	650.9911	Construction Staking Supplemental Control (project) 02. 9180-17-72	EACH	1.000		1.000
0272	650.9920	Construction Staking Slope Stakes	LF	27,035.000	4,520.000	22,515.000
0274	680.0100	Public Land Reference Monument Verify and Reset	EACH	6.000	2.000	4.000
0276	690.0150	Sawing Asphalt	LF	10,290.000	8,070.000	2,220.000
0278	690.0250	Sawing Concrete	LF	220.000		220.000
0280	715.0502	Incentive Strength Concrete Structures	DOL	500.000	500.000	
0282	740.0440	Incentive IRI Ride	DOL	45,826.000	23,090.000	22,736.000
0284	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 295+30	EACH	1.000	1.000	
0286	999.2105.S	Maintaining Climbing Turtle Exclusion Fence	LF	33,100.000	16,430.000	16,670.000
0288	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000	
0290	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	3,800.000	3,800.000	
0292	SPV.0035	Special 01. Base Repair for Base Stabilization Process	CY	200.000		200.000
0294	SPV.0060	Special 02. Polyjacking Bridge Approaches B-58-0116	EACH	1.000		1.000

Estimate Of Quantities

					9180-17-71	9180-17-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0296	SPV.0090	Special 01. Removing Bridge Railing C-58-27	LF	44.000	44.000	
0298	SPV.0180	Special 01. Protective Thermoplastic Coating at Snowmobile Crossing	SY	405.000	185.000	220.000
0300	SPV.0180	Special 02. Stabilized Base Reclamation	SY	14,160.000		14,160.000
0302	SPV.0180	Special 03. Spray Applied Membrane Waterproofing for Asphaltic Overlays	SY	78.000	78.000	
0304	SPV.0195	Special 01. Asphalt Stabilizing Agent for Base	TON	220.000		220.000

GRUBBING

CATEGORY	STATION	TO	STATION	LOCATION	201.0205 STA
PROJECT 9180-17-71					
0010	199+00	-	201+00	STH 22	2
0010	235+00	-	236+00	STH 22	1
0010	293+00	-	296+00	STH 22	3
0010	332+00	-	333+00	STH 22	1
				TOTAL 0010	7
0030	159+00	-	164+00	STH 22	5
0030	166+00	-	168+00	STH 22	2
				TOTAL 0030	7
				9180-17-71 TOTAL	14
PROJECT 9180-17-72					
0010	378+00	-	383+00	STH 22	5
0010	443+00	-	445+00	STH 22	2
0010	459+00	-	464+00	STH 22	5
0010	518+00	-	519+00	STH 22	1
0010	539+00	-	543+00	STH 22	4
0010	546+00	-	548+00	STH 22	2
0010	571+00	-	574+00	STH 22	3
0010	588+00	-	592+00	STH 22	4
				9180-17-72 TOTAL	26
				PROJECT TOTAL	40

REMOVING CATTLE PASSES

CATEGORY	STATION	LOCATION	203.0220.01 REMOVING STRUCTURE STA 496+81 CATTLE PASS EACH	203.0220.02 REMOVING STRUCTURE STA 590+47 CATTLE PASS EACH	REMARKS
PROJECT 9180-17-72					
0010	496+81	STH 22	1	-	58-022-005793
0010	590+47	STH 22	-	1	58-022-007482
		PROJECT TOTAL	1	1	

REMOVING SMALL PIPE CULVERTS

CATEGORY	STATION	LOCATION	203.0100 EACH	REMARKS
PROJEC T 9180-17-71				
0010	200+61	STH 22, RT	1	30 LF, 18" RCCP
0010	200+73	STH 22, LT	1	50 LF, 18" RCCP
0010	221+69	STH 22	1	72 LF, 30" CMCP
0010	235+94	STH 22	1	74 LF, 30" CMCP
0010	271+93	STH 22	1	116 LF, 48" CMCP
0010	294+05	STH 22, RT	1	21 LF, 18" RCCP
0010	294+58	STH 22, RT	1	25 LF, 18" RCCP
0010	305+73	STH 22	1	65 LF, 18" RCCP
		TOTAL 0010	8	
0030	166+12	STH 22, RT	1	102 LF, 36" RCCP
0030	166+64	STH 22, LT	1	74 LF, 18" CMCP
		TOTAL 0030	2	
		9180-17-71 TOTAL	10	
9180-17-72				
0010	379+83	STH 22	1	116 LF, 24" RCCP
0010	402+70	STH 22	1	75 LF, 24 RCCP
0010	425+32	STH 22	1	71 LF, 24" RCCP
0010	443+50	STH 22	1	65 LF, 24" RCCP
0010	451+56	STH 22	1	70 LF, 36" RCCP
0010	459+38	STH 22	1	95 LF, 24" RCCP
0010	519+54	STH 22	1	74 LF, 30" RCCP
0010	572+55	STH 22	1	200 LF, 36" CMCP
0010	577+37	STH 22	1	85 LF, 36 RCCP
		9180-17-72 TOTAL	9	
		PROJECT TOTAL	19	

REMOVING CONCRETE PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 SY	REMARKS
PROJECT 9180-17-72						
0010	589+43	-	590+10	STH 22, LT	66	C-7482
0010	590+43	-	590+57	STH 22, RT	12	C-7483
0010	590+82	-	591+20	STH 22, LT	42	C-7484
				PROJECT TOTAL	120	

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REMOVING ASPHALTIC SURFACE

CATEGORY	STATION	TO	STATION	LOCATION	204.0110 SY	REMARKS
PROJECT 9180-17-71						
0010	22+80	-	25+50	STH 22	50	DRIVEWAYS
0010	81+25	-	116+00	STH 22	1,200	DRIVEWAYS
0010	116+00	-	138+00	STH 22	20	DRIVEWAYS
0010	258+50	-	277+50	STH 22	290	DRIVEWAYS
0010	277+50	-	299+50	STH 22	310	DRIVEWAYS
0010	299+50	-	315+75	STH 22	70	DRIVEWAYS
0010	312+37	-	333+39	STH 22 LT	2,000	CTH R INTERSECTION
0010	312+37	-	333+39	STH 22 RT	2,320	CTH R INTERSECTION
				TOTAL 0010	6,260	
0030	159+25	-	170+50	STH 22 LT	660	RESORT ROAD
0030	159+25	-	170+50	STH 22 RT	1,060	RESORT ROAD
				TOTAL 0030	1,720	
				9180-17-71 TOTAL	7,980	
PROJECT 9180-17-72						
0010	333+39	-	364+50	STH 22	30	DRIVEWAYS
0010	364+50	-	388+25	STH 22	20	DRIVEWAYS
0010	448+50	-	468+00	STH 22	110	DRIVEWAYS
0010	536+50	-	543+90	STH 22	90	DRIVEWAYS
0010	566+50	-	593+25	STH 22	20	DRIVEWAYS
0010	587+58	-	591+83	STH 22, RT	121	C-7482
0010	587+84	-	591+83	STH 22, LT	107	C-7482
0010	593+25	-	597+25	STH 22	30	DRIVEWAYS
0010	597+56	-	597+75	STH 22, LT	38	CURB RAMP
0010	603+14	-	603+28	STH 22, LT	4	CURB RAMP
0010	617+75	-	634+00	STH 22	30	DRIVEWAYS
0010				UNDISTRIBUTED	30	ADJUSTING INLET LOCATIONS
				9180-17-72 TOTAL	630	
				PROJECT TOTAL	8,610	

REMOVING ASPHALTIC SURFACE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	REMARKS
PROJECT 9180-17-71							
0010	22+80	-	25+50	STH 22	35	1,053	MAINLINE
0010	25+50	-	39+25	STH 22	-	4,705	MAINLINE
0010	39+25	-	52+75	STH 22	-	4,578	MAINLINE
0010	52+75	-	68+25	STH 22	-	5,175	MAINLINE
0010	68+25	-	81+25	STH 22	-	4,398	MAINLINE
0010	81+25	-	116+00	STH 22	-	13,190	MAINLINE
0010	116+00	-	138+00	STH 22	-	7,445	MAINLINE
0010	138+00	-	152+50	STH 22	-	5,003	MAINLINE
0010	152+50	-	159+25	STH 22	-	2,378	MAINLINE
0010	170+50	-	194+75	STH 22	-	8,195	MAINLINE
0010	194+75	-	214+50	STH 22	-	6,823	MAINLINE
0010	214+50	-	225+25	STH 22	-	3,707	MAINLINE
0010	225+25	-	247+25	STH 22	-	7,484	MAINLINE
0010	247+25	-	258+50	STH 22	-	3,885	MAINLINE
0010	258+50	-	277+50	STH 22	-	7,378	MAINLINE
0010	277+50	-	299+50	STH 22	-	9,180	MAINLINE
0010	299+50	-	312+37	STH 22	-	5,219	MAINLINE
0010	312+37	-	333+39	STH 22	-	4,085	MAINLINE
0010	9+21A	-	9+80A	ASH CIRCLE	27	229	SIDEROAD
0010	10+19A	-	10+88A	ASH CIRCLE	34	300	SIDEROAD
0010	10+18B	-	10+51B	ASH CIRCLE	24	112	SIDEROAD
0010	10+20C	-	11+00C	CEDAR LN	34	373	SIDEROAD
0010	10+18D	-	10+58D	CEDAR AVE	43	130	SIDEROAD
0010	10+18E	-	10+60E	CEDAR LN	49	200	SIDEROAD
0010	10+15F	-	10+42F	BISCHOFF BAY LN	-	90	SIDEROAD
0010	8+96G	-	9+80G	HILLCREST DR	34	390	SIDEROAD
0010	10+20G	-	11+00G	SANDY DR	31	351	SIDEROAD
0010	9+23I	-	9+81I	SHADY LN	31	260	SIDEROAD
0010	10+20J	-	10+81J	LABUTZKE DR	30	227	SIDEROAD
0010	8+98L	-	9+80L	LAKEVIEW RD	30	335	SIDEROAD
0010	10+21L	-	10+95L	BERGS RD	33	329	SIDEROAD
0010	9+22M	-	9+80M	MEADOW RD	30	226	SIDEROAD
0010	10+21N	-	11+05N	SWAN ACRE RD	32	358	SIDEROAD
0010	8+99O	-	9+79O	OAK CREST DR	34	368	SIDEROAD
0010	10+20O	-	11+02O	BUSS DR	32	376	SIDEROAD
0010	9+52P	-	9+84P	COUNTRY LN	32	112	SIDEROAD
0010	10+20P	-	10+94P	CRYSTAL DR	24	261	SIDEROAD
0010	10+15Q	-	10+42Q	E CRYSTAL ST	23	57	SIDEROAD
0010	9+22Q	-	9+75Q	STH 117	33	370	SIDEROAD
0010	9+36R	-	9+81R	LAKE DR	23	140	SIDEROAD
0010	10+18R	-	10+41R	LAKE DR	-	69	SIDEROAD
0010	10+15RR		10+40RR	PARK ST	28	30	SIDEROAD
0010	9+41S	-	9+78S	FREEBORN ST	46	156	SIDEROAD
0010	10+25S	-	10+87S	FREEBORN ST	50	293	SIDEROAD
0010	9+35T	-	9+75T	BAEHR ST	44	151	SIDEROAD
0010	10+24T	-	10+78T	WARRINGTON AVE	44	278	SIDEROAD
0010	10+26U	-	10+84U	CTH R	40	288	SIDEROAD
				TOTAL 0010	950	110,740	
0030	159+25	-	170+50	STH 22	-	2,760	RESORT RD
				TOTAL 0030	0	2,760	
				9180-17-71 TOTAL	950	113,500	

REMOVING ASPHALTIC SURFACE ITEMS (CONTINUED)

CATEGORY	STATION	TO	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	REMARKS
PROJECT 9180-17-72							
0010	333+39	-	364+50	STH 22	-	10,300	MAINLINE
0010	364+50	-	388+25	STH 22	-	8,220	MAINLINE
0010	388+25	-	395+50	STH 22	-	2,460	MAINLINE
0010	395+50	-	423+50	STH 22	-	9,430	MAINLINE
0010	423+50	-	448+50	STH 22	-	8,467	MAINLINE
0010	448+50	-	468+00	STH 22	-	6,970	MAINLINE
0010	468+00	-	489+25	STH 22	-	7,330	MAINLINE
0010	489+25	-	506+50	STH 22	-	5,951	MAINLINE
0010	506+50	-	536+50	STH 22	-	10,034	MAINLINE
0010	536+50	-	543+90	STH 22	50	2,591	MAINLINE
0010	546+30	-	566+50	STH 22	50	7,933	MAINLINE
0010	566+50	-	593+25	STH 22	-	9,007	MAINLINE
0010	593+25	-	597+25	STH 22	-	1,607	MAINLINE
0010	597+25	-	617+75	STH 22	-	5,838	MAINLINE
0010	597+25	-	617+75	STH 22, RT	-	1,463	PARKING
0010	617+75	-	633+50	STH 22	40	5,378	MAINLINE
0010	10+19V	-	10+97V	KORTH RD	30	343	SIDEROAD
0010	10+15W	-	10+56W	LAKE CREST DR	26	196	SIDEROAD
0010	10+19X	-	10+79X	CHEESE FACTORY RD	32	281	SIDEROAD
0010	9+15Y	-	9+81Y	FREEBORN RD	34	300	SIDEROAD
0010	9+46Z	-	9+85Z	RODS LN	36	215	SIDEROAD
0010	10+25Z	-	10+87Z	CTH V	35	295	SIDEROAD
0010	9+25AA	-	9+81AA	PENSAUKEE LAKE RD	38	280	SIDEROAD
0010	8+56AB	-	9+61AB	OLD 22	29	438	SIDEROAD
0010	10+38AB	-	11+46AB	OLD 22	30	476	SIDEROAD
0010	8+81AC	-	9+82AC	TOWN RD 027	-	407	SIDEROAD
0010	8+87AD	-	9+78AD	ROUBAL RD	33	437	SIDEROAD
0010	9+40AE	-	9+82AE	RIVER BEND LN	38	218	SIDEROAD
0010	10+23AE	-	11+07AE	MOSLING RD	31	366	SIDEROAD
0010	10+23AF	-	10+89AF	CTH C	40	332	SIDEROAD
0010	9+13AG	-	9+86AG	LINQUEST RD	34	303	SIDEROAD
0010	9+15AH	-	9+80AH	RIVER LN	24	232	SIDEROAD
0010	10+16AH	-	11+10AH	PULCIFER RD	30	402	SIDEROAD
				9180-17-72 TOTAL	660	108,500	
				PROJECT TOTAL	1,610	222,000	

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REMOVING CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	204.0150 LF	REMARKS
PROJECT 9180-17-71						
0030	166+01	-	166+54	STH 22	70	RESORT RD
0030	166+80	-	167+08	STH 22	60	RESORT RD
				9180-17-71 TOTAL	130	
PROJECT 9180-17-72						
0010	597+59	-	597+75	STH 22, LT	26	CURB RAMP
0010	598+02	-	598+12	STH 22, RT	10	ADJUSTING INLET
0010	600+37	-	600+45	STH 22, LT	8	ADJUSTING INLET
0010	600+48	-	600+56	STH 22, RT	8	ADJUSTING INLET
0010	603+19	-	603+24	STH 22, LT	10	CURB RAMP
0010	604+04	-	604+12	STH 22, RT	8	ADJUSTING INLET
0010	604+12	-	604+20	STH 22, LT	8	ADJUSTING INLET
0010	606+68	-	606+76	STH 22, RT	8	ADJUSTING INLET
0010	606+72	-	606+80	STH 22, LT	8	ADJUSTING INLET
0010	608+83	-	608+97	STH 22, RT	14	ADJUSTING INLET
0010	608+83	-	608+97	STH 22, LT	14	ADJUSTING INLET
0010	609+91	-	609+99	STH 22, RT	8	ADJUSTING INLET
0010	609+95	-	610+01	STH 22, LT	8	ADJUSTING INLET
0010	612+43	-	612+51	STH 22, RT	8	ADJUSTING INLET
0010	612+43	-	612+51	STH 22, LT	8	ADJUSTING INLET
0010	614+69	-	614+77	STH 22, LT	8	ADJUSTING INLET
0010	614+69	-	614+77	STH 22, RT	8	ADJUSTING INLET
				9180-17-72 TOTAL	170	
				PROJECT TOTAL	300	

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 LF	REMARKS
PROJECT 9180-17-71						
0010	199+14	-	200+42	STH 22, LT	130	C-58-22
0010	199+18	-	200+46	STH 22, RT	130	C-58-22
0010	294+16	-	296+12	STH 22, LT	200	C-58-27
0010	294+79	-	296+38	STH 22, RT	160	C-58-27
				TOTAL 0010	620	
0030	159+47	-	159+99	STH 22, RT	50	C-58-21
0030	159+47	-	159+95	STH 22, LT	50	C-58-21
				TOTAL 0030	100	
				9180-17-71 TOTAL	720	
9180-17-72						
0010	378+34	-	383+37	STH 22, LT	504	CULVERT
0010	461+54	-	464+94	STH 22, RT	366	
0010	542+46	-	543+79	STH 22, RT	136	SW QUADRANT OF B-58-116
0010	542+65	-	543+35	STH 22, LT	76	NW QUADRANT OF B-58-116
0010	546+40	-	552+72	STH 22, LT	636	NE QUADRANT OF B-58-116
0010	546+83	-	553+91	STH 22, RT	712	SE QUADRANT OF B-58-116
0010	588+08	-	591+59	STH 22, RT	354	CATTLE PASS
0010	589+45	-	591+71	STH 22, LT	226	CATTLE PASS
				9180-17-72 TOTAL	3,010	
				PROJECT TOTAL	3,730	

DIVISION	FROM/TO STATION	LOCATION	COMMON EXCAVATION (1) CUT (2)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.33	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT
1	STA 159+25 - STA 170+50	STH 22	739	137	602	995	1,323	-721	137	721	RESORT RD
2	STA 8+21 - STA 9+51	RESORT RD	146	0	146	29	39	107	0	-	
3	197+50 - 201+75	C-58-22 GUARDRAIL	240	52	188	396	527	-339	52	339	
4	293+25 - 297+25	C-58-27 GUARDRAIL	206	48	158	136	181	-23	48	-	
5	312+50 - 333+39	STH 22	786	837	-51	401	533	-584	837	-	CTH R
6		CULVERT TRANSITIONS	2,506	280	2,226			2,226	280	-	
GRAND TOTAL			4,623	1,354	3,269	1,957	2,603	666	1,354	1,060	
TOTAL COMMON EXC			4,623								

DIVISION	FROM/TO STATION	LOCATION	COMMON EXCAVATION (1) CUT (2)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.33	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT
1	377+25 - 385+00	C-5783	301	37	264	823	1,095	-831	37	831	
2	460+00 - 465+75	GRADING	48	0	48	166	221	-173	0	173	
3	539+50 - 556+00	B-58-116	411	145	266	214	285	-19	145	19	
4	584+50 - 591+50	C-7482	259	52	207	1,591	2,116	-1,909	52	1,909	
5		CULVERTS	6,680	855	5,825			5,825	855	0	
GRAND TOTAL			7,699	1,089	6,610	2,794	3,716	2,894	1,089	2,931	
TOTAL COMMON EXC			7,699								

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT COLUMN. ITEM NUMBER 205.0100

(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

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

(13) EXPANDED FILL = UNEXPANDED FILL * FILL FACTOR. EXPANDED FILL FACTOR = 1.33

(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

CULVERT REPLACEMENT AREAS

CATEGORY	STATION	TO	STATION	LOCATION	** 205.0100 EXCAVATION COMMON CY	* 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	* 455.0605 TACK COAT GAL	* 465.0105 ASPHALTIC SURFACE TON	* 690.0150 SAWING ASPHALT LF	REMARKS
PROJECT 9180-17-71											
0010	221+16	-	222+22	STH 22	655	20	144	50	140	60	C-5774
0010	235+41	-	236+47	STH 22	760	20	144	50	130	60	C-5775
0010	271+35	-	272+52	STH 22	572	15	156	60	150	130	C-5777
0010	305+13	-	306+33	STH 22	519	15	196	70	180	80	C-5779
				9180-17-71 TOTAL	2,506	70	640	230	600	330	
PROJECT 9180-17-72											
0010	379+31	-	380+35	STH 22	718	20	170	56	150	70	C-5783
0010	401+99	-	403+41	STH 22	525	26	192	66	175	60	C-5786
0010	424+64	-	426+00	STH 22	448	25	185	63	168	60	C-5787
0010	442+90	-	443+94	STH 22	595	20	142	49	130	60	C-5788
0010	451+03	-	452+09	STH 22	584	20	162	56	148	69	C-5790
0010	458+85	-	459+91	STH 22	697	20	145	50	132	65	C-5791
0010	496+29	-	497+34	STH 22	619	20	142	49	130	60	C-5793
0010	519+01	-	520+07	STH 22	697	20	144	49	132	60	C-5798
0010	571+49	-	573+62	STH 22	697	40	290	99	263	60	C-5801
0010	576+64	-	578+09	STH 22	403	27	198	68	180	60	C-5802
0010	589+92	-	591+02	STH 22	697	22	190	65	172	76	C-7482
				9180-17-72 TOTAL	6,680	260	1,960	670	1,780	700	
				PROJECT TOTAL	9,186	330	2,600	900	2,380	1,030	

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

**FOR INFORMATION PURPOSES ONLY; QUANTITY IS INCLUDED IN EARTHWORK SUMMARY TABLE

TEMPORARY LANE SHIFT DURING CULVERT WORK

CATEGORY	STATION	TO	STATION	LOCATION	FILL CY	208.1500.S EACH	REMARKS
PROJECT 9180-17-71							
0010	221+16	-	222+22	STH 22	124	2	C-5774
0010	235+41	-	236+47	STH 22	238	2	C-5775
0010	271+35	-	272+52	STH 22	31	2	C-5777
0010	305+13	-	306+33	STH 22	54	2	C-5779
				9180-17-71 TOTAL		8	
PROJECT 9180-17-72							
0010	401+99	-	403+41	STH 22	127	2	C-5786
0010	424+64	-	426+00	STH 22	36	2	C-5787
0010	442+90	-	443+94	STH 22	148	2	C-5788
0010	451+03	-	452+09	STH 22	108	2	C-5790
0010	458+85	-	459+91	STH 22	565	2	C-5791
0010	496+29	-	497+34	STH 22	486	2	C-5793
0010	519+01	-	520+07	STH 22	110	2	C-5798
0010	571+49	-	573+62	STH 22	1007	2	C-5801
0010	576+64	-	578+09	STH 22	762	2	C-5802
				9180-17-72 TOTAL		18	
				PROJECT TOTAL		26	

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

CATEGORY	STATION	TO	STATION	LOCATION	211.0400 STA	REMARKS
PROJECT 9180-17-71						
0010	22+40	-	24+65	STH 22, LT	3	SHOULDER WIDENING
0010	26+37	-	89+37	STH 22, RT	64	SHOULDER WIDENING
0010	26+56	-	38+37	STH 22, LT	13	SHOULDER WIDENING
0010	39+89	-	51+89	STH 22, LT	13	SHOULDER WIDENING
0010	49+55	-	49+71	STH 22, RT	1	SNOWMOBILE CROSSING
0010	53+71	-	67+49	STH 22, LT	15	SHOULDER WIDENING
0010	68+81	-	80+60	STH 22, LT	13	SHOULDER WIDENING
0010	82+25	-	88+77	STH 22, LT	7	SHOULDER WIDENING
0010	92+22	-	136+93	STH 22, RT	45	SHOULDER WIDENING
0010	92+73	-	93+99	STH 22, LT	2	SHOULDER WIDENING
0010	99+33	-	99+90	STH 22, LT	1	SHOULDER WIDENING
0010	107+63	-	137+41	STH 22, LT	31	SHOULDER WIDENING
0010	138+88	-	151+30	STH 22, RT	14	SHOULDER WIDENING
0010	139+29	-	152+07	STH 22, LT	14	SHOULDER WIDENING
0010	197+90	-	201+25	STH 22, RT	5	GUARDRAIL REPLACEMENT
0010	198+35	-	200+95	STH 22, LT	3	GUARDRAIL REPLACEMENT
0010	265+31	-	274+00	STH 22, LT	9	SHOULDER WIDENING
0010	285+17	-	285+33	STH 22, LT & RT	2	SNOWMOBILE CROSSING
0010	294+00	-	295+00	STH 22, LT	1	GUARDRAIL REPLACEMENT
0010	294+00	-	295+00	STH 22, RT	1	GUARDRAIL REPLACEMENT
0010	312+70	-	333+40	STH 22, RT	22	SHOULDER WIDENING
0010	312+70	-	333+40	STH 22, LT	22	SHOULDER WIDENING
				TOTAL 0010	301	
0030	159+25	-	170+50	STH 22, RT	12	SHOULDER WIDENING
0030	159+25	-	170+50	STH 22, LT	12	SHOULDER WIDENING
				TOTAL 0030	24	
				9180-17-71 TOTAL	325	
PROJECT 9180-17-72						
0010	377+70	-	378+75	STH 22, LT	2	GUARDRAIL REPLACEMENT
0010	382+85	-	384+00	STH 22, LT	2	GUARDRAIL REPLACEMENT
0010	488+92	-	489+08	STH 22, LT & RT	4	SNOWMOBILE CROSSING
0010	540+00	-	542+35	STH 22, RT	3	GUARDRAIL REPLACEMENT
0010	553+90	-	554+85	STH 22, RT	2	GUARDRAIL REPLACEMENT
0010	566+42	-	566+57	STH 22, LT & RT	2	SNOWMOBILE CROSSING
0010	597+17	-	597+33	STH 22, LT & RT	2	SNOWMOBILE CROSSING
0010	617+92	-	618+08	STH 22, LT & RT	4	SNOWMOBILE CROSSING
				9180-17-72 TOTAL	21	
				PROJECT TOTAL	346	

BASE REPAIR FOR CIR LAYER

CATEGORY	LOCATION	211.0800.S CY
PROJECT 9180-17-71		
0010	UNDISTRIBUTED	500
	9180-17-71 TOTAL	500
PROJECT 9180-17-72		
0010	UNDISTRIBUTED	500
	9180-17-71 TOTAL	500
	PROJECT TOTAL	1,000

CIR ASPHALTIC BASE LAYER

CATEGORY	STATION	TO	STATION	LOCATION	327.1000.S CIR ASPHALTIC BASE LAYER SY	455.0770.S ASPHALT STABILIZING AGENT TON	REMARKS
PROJECT 9180-17-71							
0010	22+80	-	159+25	STH 22	36,330	254	
0010	170+50	-	312+50	STH 22	36,350	254	
				TOTAL 0010	72,680	508	
0030	159+25	-	170+50	STH 22	3,000	22	RESORT RD
				TOTAL 0030	3,000	22	
				9180-17-71 TOTAL	75,680	530	
PROJECT 9180-17-72							
0010	333+00	-	543+90	STH 22	56,240	393	CTH R TO B-58-116
0010	546+30	-	592+95	STH 22	12,440	87	B-58-116 TO CTH C
				9180-17-72 TOTAL	68,680	480	
				PROJECT TOTAL	144,360	1,010	

BASE AGGREGATE DENSE

CATEGORY	STATION	TO	STATION	LOCATION	* 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL	REMARKS
PROJECT 9180-17-71								
0010	22+80	-	159+25	STH 22	1,520	-	-	MAINLINE
0010	170+50	-	197+27	STH 22	496	-	-	MAINLINE
0010	197+27	-	201+94	STH 22	200	626	10	GUARDRAIL
0010	200+40	-	201+00	STH 22	30	-	-	FIELD ENTRANCE
0010	201+94	-	265+25	STH 22	1,177	-	-	MAINLINE
0010	220+75	-	221+15	STH 22, LT	9	-	-	FIELD ENTRANCE
0010	265+25	-	293+25	STH 22	312	-	-	MAINLINE
0010	293+25	-	297+50	STH 22	122	244	4	GUARDRAIL
0010	297+50	-	312+37	STH 22	276	-	-	MAINLINE
0010	312+37	-	333+39	STH 22	428	2,710	42	CTH R
				TOTAL 0010	4,570	3,580	56	
0030	159+25	-	170+50	STH 22	350	1,770	30	RESORT RD
				TOTAL 0030	350	1,770	30	
				9180-17-71 TOTAL	4,920	5,350	86	
PROJECT 9180-17-72								
0010	333+39	-	377+13	STH 22	568	-	-	MAINLINE
0010	377+13	-	385+00	STH 22	150	376	6	GUARDRAIL
0010	383+60	-	384+00	STH 22, LT	10	-	-	DRIVEWAY
0010	385+00	-	539+00	STH 22	1,998	-	-	MAINLINE
0010	539+00	-	543+81	STH 22	172	-	-	GUARDRAIL
0010	546+36	-	556+00	STH 22	358	158	4	GUARDRAIL
0010	556+00	-	592+95	STH 22	480	226	4	MAINLINE
0010	592+95	-	597+97	STH 22	66	-	-	MAINLINE
0010	618+25	-	633+50	STH 22	198	-	-	MAINLINE
				9180-17-72 TOTAL	4,000	760	14	
				PROJECT TOTAL	8,920	6,110	100	

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

					HMA PAVEMENT *					
CATEGORY	STATION	TO	STATION	LOCATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	460.6245 HMA PAVEMENT 5 MT 58-34 S TON	REMARKS
PROJECT 9180-17-71										
0010	22+80	-	25+50	STH 22	60	154	-	129	82	MAINLINE
0010	25+50	-	39+25	STH 22	250	736	-	573	385	MAINLINE
0010	39+25	-	52+75	STH 22	240	720	-	561	372	MAINLINE
0010	52+75	-	68+25	STH 22	270	814	-	634	422	MAINLINE
0010	68+25	-	81+25	STH 22	230	690	-	538	357	MAINLINE
0010	81+25	-	116+00	STH 22	-	1,991	-	1,540	1,047	MAINLINE
0010	116+00	-	138+00	STH 22	-	1,172	-	931	604	MAINLINE
0010	138+00	-	152+50	STH 22	-	779	-	572	403	MAINLINE
0010	152+50	-	159+25	STH 22	-	333	-	252	174	MAINLINE
0010	170+50	-	194+75	STH 22	-	1,144	-	845	590	MAINLINE
0010	194+75	-	214+50	STH 22	-	956	-	699	493	MAINLINE
0010	214+50	-	225+25	STH 22	-	519	-	385	269	MAINLINE
0010	225+25	-	247+25	STH 22	-	1,048	-	765	541	MAINLINE
0010	247+25	-	258+50	STH 22	-	544	-	403	282	MAINLINE
0010	258+50	-	277+50	STH 22	-	1,058	-	773	546	MAINLINE
0010	277+50	-	299+50	STH 22	-	1,284	-	942	672	MAINLINE
0010	299+50	-	312+50	STH 22	-	738	-	543	382	MAINLINE
0010	312+50	-	333+39	STH 22	-	1,386	800	798	574	MAINLINE
0010	272+25	-	274+48	STH 22 LT	-	70	-	114	-	PARK AND RIDE
0010	280+80	-	283+03	STH 22 LT	-	60	-	98	-	PARK AND RIDE
0010	9+21A	-	9+80A	ASH CT	-	36	-	26	19	SIDEROAD
0010	10+19A	-	10+88A	ASH CIR	-	47	-	34	24	SIDEROAD
0010	10+18B	-	10+51B	ASH CIR	-	20	-	14	10	SIDEROAD
0010	10+20C	-	11+00C	CEDAR LN	-	57	-	41	30	SIDEROAD
0010	10+18D	-	10+58D	CEDAR AVE	-	25	-	18	13	SIDEROAD
0010	10+18E	-	10+60E	CEDAR LN	-	35	-	25	18	SIDEROAD
0010	10+15F	-	10+42F	BISCHOFF BAY LN	-	13	-	9	7	SIDEROAD
0010	8+96G	-	9+80G	HILLCREST DR	-	60	-	43	31	SIDEROAD
0010	10+20G	-	11+00G	SANDY DR	-	54	-	39	28	SIDEROAD
0010	9+23I	-	9+81I	SHADY LN	-	41	-	30	21	SIDEROAD
0010	10+20J	-	10+81J	LABUTZKE DR	-	36	-	26	19	SIDEROAD
0010	8+98L	-	9+80L	LAKEVIEW RD	-	51	-	37	27	SIDEROAD
0010	10+21L	-	10+95L	BERGS RD	-	51	-	37	26	SIDEROAD
0010	9+22M	-	9+80M	MEADOW RD	-	36	-	26	19	SIDEROAD
0010	10+21N	-	11+05N	SWAN ACRE RD	-	55	-	40	28	SIDEROAD
0010	8+99O	-	9+79O	OAK CREST DR	-	57	-	41	29	SIDEROAD
0010	10+20O	-	11+02O	BUSS DR	-	58	-	42	30	SIDEROAD
0010	9+52P	-	9+84P	COUNTRY LN	-	21	-	15	11	SIDEROAD
0010	10+20P	-	10+94P	CRYSTAL DR	-	40	-	29	21	SIDEROAD
0010	10+15Q	-	10+42Q	E CRYSTAL ST	-	12	-	13	11	SIDEROAD
0010	9+22Q	-	9+75Q	STH 117	-	62	-	44	32	SIDEROAD
0010	9+36R	-	9+81R	LAKE DR	-	23	-	17	12	SIDEROAD
0010	10+18R	-	10+41R	LAKE DR	-	10	-	7	5	SIDEROAD
0010	10+15RR		10+40RR	PARK ST	-	9	-	10	8	SIDEROAD
0010	9+41S	-	9+78S	FREEBORN ST	-	29	-	21	15	SIDEROAD
0010	10+25S	-	10+87S	FREEBORN ST	-	48	-	35	25	SIDEROAD
0010	9+35T	-	9+75T	BAEHR ST	-	27	-	20	14	SIDEROAD
0010	10+24T	-	10+78T	WARRINGTON AVE	-	45	-	33	23	SIDEROAD
0010	10+26U	-	10+84U	CTH R	-	46	-	33	24	SIDEROAD
				TOTAL 0010	1,050	17,300	800	12,900	8,775	

HMA PAVEMENT (CONTINUED)

CATEGORY	STATION	TO	STATION	LOCATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 * TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	460.6245 HMA PAVEMENT 5 MT 58-34 S TON	REMARKS
0030	159+50	-	170+50	STH 22	-	855	420	510	363	MAINLINE AND WIDENING
0030	8+49K	-	9+83K	RESORT RD	-	90	130	66	45	SIDEROAD
0030	10+20K	-	10+85K	RESORT RD	-	35	50	24	17	SIDEROAD
				TOTAL 0030	0	980	600	600	425	
				9180-17-71 TOTAL	1,050	18,280	1,400	13,500	9,200	
PROJECT 9180-17-72										
0010	333+39	-	364+50	STH 22	-	1,450	-	1,060	753	MAINLINE
0010	364+50	-	388+25	STH 22	-	1,160	-	842	596	MAINLINE
0010	388+25	-	395+50	STH 22	-	344	-	259	179	MAINLINE
0010	395+50	-	423+50	STH 22	-	1,330	-	970	681	MAINLINE
0010	423+50	-	448+50	STH 22	-	1,190	-	868	611	MAINLINE
0010	448+50	-	468+00	STH 22	-	976	-	714	504	MAINLINE
0010	468+00	-	489+25	STH 22	-	1,030	-	750	530	MAINLINE
0010	489+25	-	506+50	STH 22	-	835	-	611	431	MAINLINE
0010	506+50	-	536+50	STH 22	-	1,410	-	1,035	734	MAINLINE
0010	536+50	-	543+90	STH 22	-	375	-	282	195	MAINLINE
0010	546+30	-	566+50	STH 22	340	1,080	-	787	556	MAINLINE
0010	566+50	-	592+95	STH 22	390	1,250	-	920	642	MAINLINE
0010	592+95	-	597+25	STH 22	80	243	-	187	128	MAINLINE
0010	597+25	-	617+75	STH 22	-	843	-	618	435	MAINLINE
0010	597+25	-	617+75	STH 22, RT	-	180	-	130	95	PARKING
0010	617+75	-	633+50	STH 22	240	753	-	554	390	MAINLINE
0010	10+19V	-	10+97V	KORTH RD	-	53	-	38	27	SIDEROAD
0010	10+15W	-	10+56W	LAKE CREST DR	-	31	-	23	16	SIDEROAD
0010	10+19X	-	10+79X	CHEESE FACTORY RD	-	44	-	32	23	SIDEROAD
0010	9+15Y	-	9+81Y	FREEBORN RD	-	47	-	34	24	SIDEROAD
0010	9+46Z	-	9+85Z	RODS LN	-	35	-	25	18	SIDEROAD
0010	10+25Z	-	10+87Z	CTH V	-	47	-	34	24	SIDEROAD
0010	9+25AA	-	9+81AA	PENSAUKEE LAKE RD	-	45	-	32	23	SIDEROAD
0010	8+56AB	-	9+61AB	OLD 22	-	66	-	47	34	SIDEROAD
0010	10+38AB	-	11+46AB	OLD 22	-	71	-	51	37	SIDEROAD
0010	8+81AC	-	9+82AC	TOWN RD 027	-	57	-	41	30	SIDEROAD
0010	8+87AD	-	9+78AD	ROUBAL RD	-	66	-	48	34	SIDEROAD
0010	9+40AE	-	9+82AE	RIVER BEND LN	-	36	-	26	19	SIDEROAD
0010	10+23AE	-	11+07AE	MOSLING RD	-	56	-	40	29	SIDEROAD
0010	10+23AF	-	10+89AF	CTH C	-	52	-	38	27	SIDEROAD
0010	9+13AG	-	9+86AG	LINQUEST RD	-	48	-	34	25	SIDEROAD
0010	9+15AH	-	9+80AH	RIVER LN	-	36	-	26	19	SIDEROAD
0010	10+16AH	-	11+10AH	PULCIFER RD	-	61	-	44	31	SIDEROAD
				9180-17-72 TOTAL	1,050	15,300	0	11,200	7,900	
				PROJECT TOTAL	2,100	33,580	1,400	24,700	17,100	

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

PWL MIXTURE USE TABLE

STATION	TO	STATION	LOCATION		DESCIPTION	MIXTURE USE:	UNDERLYING SURFACE:	BID ITEM	TONS	THICKNESS	QMP TO BE USED FOR: MIXTURE ACCEPTANCE	QMP TO BE USED FOR: DENSITY ACCEPTANCE
22+80	-	152+50	STH 22	LT & RT	12' DRIVING LANES	LOWER LAYER	CIR LAYER	4 MT 58-28 S	3,475	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
					12' DRIVING LANES	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	2,482	1.25		DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					5' SHOULDERS	LOWER LAYER	CIR LAYER	4 MT 58-28 S	2,003	1.75		
					5' SHOULDERS	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	1,190	1.25		
152+50	-	159+25	STH 22	LT & RT	12' DRIVING LANES	LOWER LAYER	CIR LAYER	4 MT 58-28 S	182	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
					12' DRIVING LANES	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	130	1.25		DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					3' SHOULDERS	LOWER LAYER	CIR LAYER	4 MT 58-28 S	70	1.75		
					3' SHOULDERS	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	44	1.25		
159+25	-	170+50	STH 22	LT & RT	12' DRIVING LANES	LOWER LAYER	CIR LAYER	4 MT 58-28 S	302	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
					12' DRIVING LANES	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	216	1.25		
					3' SHOULDERS	LOWER LAYER	CIR LAYER	3 MT 58-28 S	420	3.50		DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					3' SHOULDERS	LOWER LAYER	3 MT 58-28 S	4 MT 58-28 S	208	1.75		
					3' SHOULDERS	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	147	1.25		
170+50	-	265+25	STH 22	LT & RT	12' DRIVING LANES	LOWER LAYER	CIR LAYER	4 MT 58-28 S	2,543	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
					12' DRIVING LANES	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	1,817	1.25		DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					3' SHOULDERS	LOWER LAYER	CIR LAYER	4 MT 58-28 S	801	1.75		
					3' SHOULDERS	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	529	1.25		
265+25	-	312+50	STH 22	LT & RT	12' DRIVING LANES	LOWER LAYER	CIR LAYER	4 MT 58-28 S	1,268	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
					12' DRIVING LANES	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	906	1.25		DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					5' SHOULDERS	LOWER LAYER	CIR LAYER	4 MT 58-28 S	743	1.75		
					5' SHOULDERS	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	523	1.25		
272+25	-	274+48	STH 22	LT	PARK AND RIDE	UPPER LAYER	EXISTING PAVEMENT	4 MT 58-28 S	114	2.00	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
280+80	-	283+03	STH 22	LT	PARK AND RIDE	UPPER LAYER	EXISTING PAVEMENT	4 MT 58-28 S	98	2.00		
312+50	-	333+39	STH 22	LT & RT	12' DRIVING LANES	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	408	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
					12' DRIVING LANES	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	292	1.25		DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					3' SHOULDERS	LOWER LAYER	CIR LAYER	3 MT 58-28 S	800	3.50		
					3' SHOULDERS	LOWER LAYER	3 MT 58-28 S	4 MT 58-28 S	390	1.75		
					3' SHOULDERS	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	282	1.25		
VARIOUS			STH 22	LT&RT	CULVERT PATCHES	PATCH	BASE AGGREGATE DENSE	ASPHALTIC SURFACE PATCHING	600	6.50	(SS 465)	ORDINARY COMPACTION (SS 450.3.2.6.2)
9+21A	-	9+80A	ASH CT	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	26	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	19	1.25		
10+19A	-	10+88A	ASH CIRCLE	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	34	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	24	1.25		
10+18B	-	10+51B	ASH CIRCLE	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	14	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	10	1.25		
10+20C	-	11+00C	CEDAR LN	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	41	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	30	1.25		
10+18D	-	10+58D	CEDAR AVE	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	18	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	13	1.25		

PWL MIXTURE USE TABLE CONTINUED

STATION	TO	STATION	LOCATION		DESCIPTION	MIXTURE USE:	UNDERLYING SURFACE:	BID ITEM	TONS	THICKNESS	QMP TO BE USED FOR: MIXTURE ACCEPTANCE	QMP TO BE USED FOR: DENSITY ACCEPTANCE
10+18E	-	10+60E	CEDAR LN	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	25	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	18	1.25		
10+15F	-	10+42F	BISCHOFF BAY LN	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	9	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	7	1.25		
8+96G	-	9+80G	HILLCREST DR	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	43	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	31	1.25		
10+20G	-	11+00G	SANDY DR	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	39	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	28	1.25		
9+23I	-	9+81I	SHADY LN	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	30	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	21	1.25		
10+20J	-	10+81J	LABUTZKE DR	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	26	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	19	1.25		
8+49K	-	9+83K	RESORT RD	RT	SIDE ROAD	LOWER LAYER	BASE AGGREGATE DENSE	3 MT 58-28 S	130	3.50	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	LOWER LAYER	3 MT 58-28 S	4 MT 58-28 S	66	1.75		
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	45	1.25		
10+20K	-	10+85K	RESORT RD	LT	SIDE ROAD	LOWER LAYER	BASE AGGREGATE DENSE	3 MT 58-28 S	50	3.50	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	LOWER LAYER	3 MT 58-28 S	4 MT 58-28 S	24	1.75		
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	17	1.25		
8+98L	-	9+80L	LAKEVIEW RD	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	37	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	27	1.25		
10+21L	-	10+95L	BERGS RD	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	37	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	26	1.25		
9+22M	-	9+80M	MEADOW RD	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	26	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	19	1.25		
10+21N	-	11+05N	SWAN ACRE RD	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	40	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	28	1.25		
8+99O	-	9+79O	OAK CREST DR	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	41	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	29	1.25		
10+20OO	-	11+02O	BUSS DR	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	42	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	30	1.25		
9+52P	-	9+84P	COUNTRY LN	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	15	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	11	1.25		
10+20P	-	10+94P	CRYSTAL DR	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	29	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	21	1.25		
10+15Q	-	10+42Q	E CRYSTAL ST	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	13	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	11	1.25		
9+22Q	-	9+75Q	STH 117	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	44	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	32	1.25		

PWL MIXTURE USE TABLE CONTINUED

STATION	TO	STATION	LOCATION		DESCIPTION	MIXTURE USE:	UNDERLYING SURFACE:	BID ITEM	TONS	THICKNESS	QMP TO BE USED FOR: MIXTURE ACCEPTANCE	QMP TO BE USED FOR: DENSITY ACCEPTANCE
9+36R	-	9+81R	LAKE DR	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	17	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	12	1.25		
10+18R	-	10+41R	LAKE DR	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	7	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	5	1.25		
10+15RR	-	10+40RR	PARK ST	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	10	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	8	1.25		
9+41S	-	9+78S	FREEBORN ST	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	21	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	15	1.25		
10+25S	-	10+87S	FREEBORN ST	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	35	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	25	1.25		
9+35T	-	9+75T	BAEHR ST	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	20	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	14	1.25		
10+24T	-	10+78T	WARRINGTON AVE	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	33	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	23	1.25		
10+26U	-	10+84U	CTH R	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	33	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	24	1.25		

PWL MIXTURE USE TABLE

STATION	TO	STATION	LOCATION		DESCIPTION	MIXTURE USE:	UNDERLYING SURFACE:	BID ITEM	TONS	THICKNESS	QMP TO BE USED FOR: MIXTURE ACCEPTANCE	QMP TO BE USED FOR: DENSITY ACCEPTANCE
333+39	-	592+95	STH 22	LT & RT	12' DRIVING LANES	LOWER LAYER	CIR LAYER	4 MT 58-28 S	6,965	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
					12' DRIVING LANES	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	4,975	1.25		DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					3' SHOULDERS	LOWER LAYER	CIR LAYER	4 MT 58-28 S	2,133	1.75		
					3' SHOULDERS	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	1,437	1.25		
592+95	-	597+97	STH 22	LT & RT	12' DRIVING LANES	LOWER LAYER	STABILIZED BASE RECLAMATION	4 MT 58-28 S	135	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
					12' DRIVING LANES	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	97	1.25		DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					3' SHOULDERS	LOWER LAYER	STABILIZED BASE RECLAMATION	4 MT 58-28 S	52	1.75		
					3' SHOULDERS	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	31	1.25		
597+97	-	618+50	STH 22	LT & RT	12' DRIVING LANES	LOWER LAYER	STABILIZED BASE RECLAMATION	4 MT 58-28 S	551	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
					12' DRIVING LANES	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	394	1.25		DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					1-7' SHOULDERS	LOWER LAYER	STABILIZED BASE RECLAMATION	3 MT 58-28 S	197	1.75		
					1-7' SHOULDERS	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	136	1.25		
618+50	-	633+50	STH 22	LT & RT	12' DRIVING LANES	LOWER LAYER	STABILIZED BASE RECLAMATION	4 MT 58-28 S	403	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
					12' DRIVING LANES	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	288	1.25		DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					3' SHOULDERS	LOWER LAYER	STABILIZED BASE RECLAMATION	4 MT 58-28 S	151	1.75		
					3' SHOULDERS	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	102	1.25		
VARIOUS			STH 22	LT&RT	CULVERT PATCHES	PATCH	BASE AGGREGATE DENSE	ASPHALTIC SURFACE PATCHING	1,780	6.50	(SS 465)	ORDINARY COMPACTION (SS 450.3.2.6.2)
10+19V	-	10+97V	KORTH RD	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	38	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	27	1.75		
10+15W	-	10+56W	LAKE CREST DR	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	23	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	16	1.75		
10+19X	-	10+79X	CHEESE FACTORY RD	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	32	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	23	1.75		
9+15Y	-	9+81Y	FREEBORN RD	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	34	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	24	1.75		
9+46Z	-	9+85Z	RODS LN	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	25	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	18	1.75		
10+25Z	-	10+87Z	CTH V	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	34	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	24	1.75		
9+25AA	-	9+81AA	PENSAUKEE LAKE RD	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	32	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	23	1.75		

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PWL MIXTURE USE TABLE CONTINUED

STATION	TO	STATION	LOCATION		DESCIPTION	MIXTURE USE:	UNDERLYING SURFACE:	BID ITEM	TONS	THICKNESS	QMP TO BE USED FOR: MIXTURE ACCEPTANCE	QMP TO BE USED FOR: DENSITY ACCEPTANCE
8+56AB	-	9+61AB	OLD 22	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	47	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	34	1.75		
10+38AB	-	11+46AB	OLD 22	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	51	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	37	1.75		
8+81AC	-	9+82AC	TOWN RD 027	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	41	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	30	1.75		
8+87AD	-	9+78AD	ROUBAL RD	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	48	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	34	1.75		
9+40AE	-	9+82AE	RIVER BEND LN	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	26	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	19	1.75		
10+23AE	-	11+07AE	MOSLING RD	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	40	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	29	1.75		
10+23AF	-	10+89AF	CTH C	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	38	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	27	1.75		
9+13AG	-	9+86AG	LINQUEST RD	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	34	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	25	1.75		
9+15AH	-	9+80AH	RIVER LN	RT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	26	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	19	1.75		
10+16AH	-	11+10AH	PULCIFER RD	LT	SIDE ROAD	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	44	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2) *NOT ELIGIBLE FOR INCENTIVE
					SIDE ROAD	UPPER LAYER	4 MT 58-28 S	5 MT 58-34 S	31	1.75		

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ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

CATEGORY	STATION	TO	STATION	LOCATION	465.0120 TON	REMARKS
PROJECT 9180-17-71						
0010	22+80	-	25+50	STH 22	4	BOP TO ASH CT/ASH CIR
0010	81+25	-	116+00	STH 22	115	CEDAR LN TO BISCHOFF BAY LN
0010	116+00	-	138+00	STH 22	3	BISCHOFF BAY LN TO SANDY DR/HILLCREST DR
0010	258+50	-	277+50	STH 22	33	CRYSTAL DR/COUNTRY LN TO STH 117
0010	277+50	-	299+50	STH 22	32	STH 117 TO FREEBORN ST
0010	299+50	-	315+75	STH 22	8	FREEBORN ST TO W BAEHR ST/N WARRINGTON AVE
				9180-17-71 TOTAL	195	
PROJECT 9180-17-72						
0010	333+39	-	364+50	STH 22	4	CTH R TO KORTH RD
0010	364+50	-	388+25	STH 22	3	KORTH RD TO LAKECREST DR
0010	448+50	-	468+00	STH 22	14	CTH V/ROD'S LN TO PENSAUKEE RD
0010	536+50	-	543+90	STH 22	12	ROUBAL RD TO B-58-116
0010	566+50	-	593+25	STH 22	3	MOSLING RD TO CTH C
0010	593+25	-	597+25	STH 22	4	CTH C TO LINDQUIST RD
0010	617+75	-	634+00	STH 22	5	PULCIFER RD/RIVER LN TO EOP
				9180-17-72 TOTAL	45	
				PROJECT TOTAL	240	

ASPHALTIC FLUMES

CATEGORY	STATION	LOCATION	465.0315 SY	REMARKS
PROJECT 9180-17-71				
0030	165+80	STH 22, RT	9	RESORT RD
0030	166+22	STH 22, RT	9	RESORT RD
0030	166+54	STH 22, LT	9	RESORT RD
0030	166+85	STH 22, LT	9	RESORT RD
		PROJECT TOTAL	36	

ASPHALTIC RUMBLE STRIPS, CENTERLINE

CATEGORY	STATION	TO	STATION	LOCATION	465.0560 LF	REMARKS
PROJECT 9180-17-71						
0010	24+01	-	76+25	STH 22	4,324	CTH BE TO CEDAR AVE
0010	119+68	-	251+68	STH 22	10,800	BISCHOFF BAY LN TO BUSS DR
				9180-17-71 TOTAL	15,124	
PROJECT 9180-17-72						
0010	334+62	-	591+25	STH 22	23,130	CTH R TO CTH C
0010	620+27	-	633+50	STH 22	1,330	PULCIFER RD TO EOP
				9180-17-72 TOTAL	24,460	
				PROJECT TOTAL	39,584	

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APRON ENDWALLS

CATEGORY	STATION	LOCATION	520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH	520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH EACH	520.1030 APRON ENDWALLS FOR CULVERT PIPE 30-INCH EACH	520.1036 APRON ENDWALLS FOR CULVERT PIPE 36-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	522.1054 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 54-INCH EACH	522.2629 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29X45-INCH EACH	522.2634 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH EACH	633.5200 MARKERS CULVERT END EACH	REMARKS
PROJECT 9180-17-71													
0010	200+61	STH 22, RT	2	-	-	-	-	-	-	-	-	-	DRIVEWAY
0010	200+72	STH 22, LT	2	-	-	-	-	-	-	-	-	-	DRIVEWAY
0010	220+88	STH 22, LT	-	-	2	-	-	-	-	-	-	-	FIELD ENTRANCE
0010	221+69	STH 22	-	-	2	-	-	-	-	-	-	2	C-5774
0010	235+94	STH 22	-	-	-	2	-	-	-	-	-	2	C-5775
0010	271+89	STH 22	-	-	-	-	-	-	-	-	2	2	C-5777
0010	271+97	STH 22	-	-	-	-	-	-	-	-	2	2	C-5777
0010	305+69	STH 22	-	-	-	-	-	-	-	2	-	2	C-5779
0010	305+76	STH 22	-	-	-	-	-	-	-	2	-	2	C-5779
		TOTAL 0010	4	0	4	2	0	0	0	4	4	12	
0030	166+12	STH 22, RT	-	-	-	-	-	-	-	2	-	2	RESORT RD
0030	166+64	STH 22, LT	2	-	-	-	-	-	-	-	-	2	RESORT RD
		TOTAL 0030	2	0	0	0	0	0	0	2	0	4	
		9180-17-71 TOTAL	6	0	4	2	0	0	0	6	4	16	
PROJECT 9180-17-72													
0010	379+83	STH 22	-	2	-	-	-	-	-	-	-	2	C-5783
0010	402+70	STH 22	-	-	-	-	2	-	-	-	-	2	C-5786
0010	425+32	STH 22	-	-	-	-	2	-	-	-	-	2	C-5787
0010	443+50	STH 22	-	2	-	-	-	-	-	-	-	2	C-5788
0010	451+56	STH 22	-	-	-	-	-	2	-	-	-	2	C-5790
0010	459+38	STH 22	-	-	2	-	-	-	-	-	-	2	C-5791
0010	496+81	STH 22	-	2	-	-	-	-	-	-	-	2	C-5793
0010	519+54	STH 22	-	-	2	-	-	-	-	-	-	2	C-5798
0010	572+55	STH 22	-	-	-	2	-	-	-	-	-	2	C-5801
0010	577+37	STH 22	-	-	-	-	-	2	-	-	-	2	C-5802
0010	590+46	STH 22	-	-	-	-	-	-	2	-	-	2	C-7482
		9180-17-72 TOTAL	0	6	4	2	4	4	2	0	0	22	
		PROJECT TOTAL	6	6	8	4	4	4	2	6	4	38	

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CULVERT PIPES

CATEGORY	STATION	LOCATION	520.3618 CULVERT PIPE CLASS III-B NON-METAL 18-INCH LF	520.3624 CULVERT PIPE CLASS III-B NON-METAL 24-INCH LF	520.3630 CULVERT PIPE CLASS III-B NON-METAL 30-INCH LF	520.3636 CULVERT PIPE CLASS III-B NON-METAL 36-INCH LF	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.0436 CULVERT PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF	522.0454 CULVERT PIPE REINFORCED CONCRETE CLASS IV 54-INCH LF	522.2429 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH LF	522.2434 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 34X53-INCH LF	REMARKS
PROJECT 9180-17-71												
0010	200+61	STH 22, RT	24	-	-	-	-	-	-	-	-	DRIVEWAY
0010	200+72	STH 22, LT	56	-	-	-	-	-	-	-	-	DRIVEWAY
0010	220+88	STH 22, LT	-	-	30	-	-	-	-	-	-	FIELD ENTRANCE
0010	221+69	STH 22	-	-	72	-	-	-	-	-	-	C-5774
0010	235+94	STH 22	-	-	-	76	-	-	-	-	-	C-5775
0010	271+89	STH 22	-	-	-	-	-	-	-	-	108	C-5777
0010	271+97	STH 22	-	-	-	-	-	-	-	-	108	C-5777
0010	305+69	STH 22	-	-	-	-	-	-	-	56	-	C-5779
0010	305+76	STH 22	-	-	-	-	-	-	-	56	-	C-5779
		TOTAL 0010	80	0	102	76	0	0	0	112	216	
0030	166+12	STH 22, RT	-	-	-	-	-	-	-	96	-	RESORT RD
0030	166+64	STH 22, LT	80	-	-	-	-	-	-	-	-	RESORT RD
		TOTAL 0030	80	0	0	0	0	0	0	96	0	
		9180-17-71 TOTAL	160	0	102	76	0	0	0	208	216	
PROJECT 9180-17-72												
0010	379+83	STH 22	-	120	-	-	120	-	-	-	-	C-5783
0010	402+70	STH 22	-	-	-	-	-	-	-	-	-	C-5786
0010	425+32	STH 22	-	-	-	-	-	-	-	-	-	C-5787
0010	443+50	STH 22	-	66	-	-	66	-	-	-	-	C-5788
0010	451+56	STH 22	-	-	-	-	-	-	-	-	-	C-5790
0010	459+38	STH 22	-	-	96	-	-	96	-	-	-	C-5791
0010	496+81	STH 22	-	90	-	-	90	-	-	-	-	C-5793
0010	519+54	STH 22	-	-	74	-	-	74	-	-	-	C-5798
0010	572+55	STH 22	-	-	-	196	-	-	196	-	-	C-5801
0010	577+37	STH 22	-	-	-	-	-	-	-	-	-	C-5802
0010	590+46	STH 22	-	-	-	-	-	-	-	-	-	C-7482
		9180-17-72 TOTAL	0	276	170	196	276	170	196	0	0	
		PROJECT TOTAL	160	276	272	272	276	170	196	208	216	

CONCRETE CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	416.0610 DRILLED TIE BARS EACH	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0588 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT LF	601.0590 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT LF	REMARKS
PROJECT 9180-17-71										
0030	165+38	-	165+80	STH 22, RT	-	-	88	-	-	RESORT RD SOUTH
0030	165+98	-	166+54	STH 22, LT	-	-	71	-	-	RESORT RD NORTH
0030	166+22	-	166+78	STH 22, RT	-	-	72	-	-	RESORT RD SOUTH
0030	166+84	-	167+08	STH 22, LT	-	-	50	-	-	RESORT RD NORTH
				9180-17-71 TOTAL	0	0	281	0	0	
PROJECT 9180-17-72										
0010	542+81	-	543+38	STH 22, LT	-	-	-	58	-	B-58-0116
0010	543+25	-	543+81	STH 22, RT	16	-	-	18	40	B-58-0116
0010	546+36	-	546+93	STH 22, LT	16	-	-	18	40	B-58-0116
0010	546+80	-	547+38	STH 22, RT	-	-	-	58	-	B-58-0116
0010	597+59	-	597+75	STH 22, LT	-	26	-	-	-	CURB RAMP
0010	598+02	-	598+12	STH 22, RT	-	10	-	-	-	ADJUSTING INLET
0010	600+37	-	600+45	STH 22, LT	-	10	-	-	-	ADJUSTING INLET
0010	600+48	-	600+56	STH 22, RT	-	8	-	-	-	ADJUSTING INLET
0010	603+19	-	603+24	STH 22, LT	-	10	-	-	-	CURB RAMP
0010	604+04	-	604+12	STH 22, RT	-	8	-	-	-	ADJUSTING INLET
0010	604+12	-	604+20	STH 22, LT	-	8	-	-	-	ADJUSTING INLET
0010	606+68	-	606+76	STH 22, RT	-	8	-	-	-	ADJUSTING INLET
0010	606+72	-	606+80	STH 22, LT	-	8	-	-	-	ADJUSTING INLET
0010	608+83	-	608+97	STH 22, RT	-	16	-	-	-	ADJUSTING INLET
0010	608+83	-	608+97	STH 22, LT	-	16	-	-	-	ADJUSTING INLET
0010	609+91	-	609+99	STH 22, RT	-	8	-	-	-	ADJUSTING INLET
0010	609+95	-	610+01	STH 22, LT	-	8	-	-	-	ADJUSTING INLET
0010	612+43	-	612+51	STH 22, RT	-	8	-	-	-	ADJUSTING INLET
0010	612+43	-	612+51	STH 22, LT	-	8	-	-	-	ADJUSTING INLET
				9180-17-72 TOTAL	32	160	0	152	80	
				PROJECT TOTAL	32	160	281	152	80	

CURB RAMPS

CATEGORY	STATION	TO	STATION	LOCATION	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0415 CONCRETE SIDEWALK 6-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	REMARKS
PROJECT 9180-17-72									
0010	597+59	-	597+75	STH 22, LT	25	-	95	10	CURB RAMP
0010	603+00	-	603+35	STH 22, LT	-	205	55	10	CURB RAMP
				PROJECT TOTAL	25	205	150	20	

CONCRETE SURFACE DRAINS

CATEGORY	STATION	LOCATION	602.3010 CY	REMARKS
PROJECT 9180-17-72				
0010	542+90	STH 22, LT	2	B-58-0116
0010	543+35	STH 22, RT	2	B-58-0116
0010	546+82	STH 22, LT	4	B-58-0116
0010	547+25	STH 22, RT	4	B-58-0116
		PROJECT TOTAL	12	

RIPRAP

CATEGORY	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE TYPE HR SY	REMARKS
PROJECT 9180-17-71						
0010	271+93	STH 22, LT	12	-	34	C-5777
		9180-17-71 TOTAL	12	0	34	
PROJECT 9180-17-72						
0010	542+90	STH 22, LT	5	-	20	B-58-0116
0010	543+35	STH 22, RT	5	-	22	B-58-0116
0010	546+82	STH 22, LT	10	-	42	B-58-0116
0010	547+25	STH 22, RT	8	-	20	B-58-0116
0010	590+47	STH 22, RT	-	14	32	C-7482
		9180-17-72 TOTAL	28	14	136	
		PROJECT TOTAL	40	14	170	

ADJUSTING INLET COVERS

CATEGORY	STATION	LOCATION	611.8115 EACH
PROJECT 9180-17-72			
0010	597+73	STH 22, LT	1
0010	598+07	STH 22, RT	1
0010	600+41	STH 22, LT	1
0010	600+52	STH 22, RT	1
0010	604+08	STH 22, RT	1
0010	604+16	STH 22, LT	1
0010	606+72	STH 22, RT	1
0010	606+76	STH 22, LT	1
0010	608+87	STH 22, RT	1
0010	608+87	STH 22, LT	1
0010	608+93	STH 22, RT	1
0010	608+93	STH 22, LT	1
0010	609+94	STH 22, RT	1
0010	609+98	STH 22, LT	1
0010	612+46	STH 22, RT	1
0010	612+47	STH 22, LT	1
0010	614+73	STH 22, RT	1
0010	614+73	STH 22, LT	1
		PROJECT TOTAL	18

GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	614.0370 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL EACH	614.2300 MGS GUARDRAIL 3 LF	614.2340 MGS GUARDRAIL 3 L LF	614.2350 MGS GUARDRAIL SHORT RADIUS LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2630 MGS GUARDRAIL SHORT RADIUS TERMINAL EACH	REMARKS
PROJECT 9180-17-71												
0010	198+68	-	200+49	STH 22, RT	-	75	-	-	-	2	-	C-58-22
0010	199+12	-	200+48	STH 22, LT	-	50	-	13	-	1	1	C-58-22
0010	294+15	-	296+34	STH 22, LT	-	-	112.5	-	-	2	-	C-58-27
0010	294+21	-	296+40	STH 22, RT	-	-	112.5	-	-	2	-	C-58-27
				TOTAL 0010	0	125	225	13	0	7	1	
0030	159+45	-	159+98	STH 22, LT	1	-	-	-	-	-	-	C-58-21
0030	159+49	-	160+02	STH 22, RT	1	-	-	-	-	-	-	C-58-21
				TOTAL 0030	2	0	0	0	0	0	0	
				9180-17-71 TOTAL	2	125	225	13	0	7	1	
PROJECT 9180-17-72												
0010	378+33	-	383+33	STH 22, LT	-	400	-	-	-	2	-	58022005783
0010	549+89	-	543+81	STH 22, RT	-	200	-	-	39.6	1	-	SW QUADRANT OF B-58-116
0010	542+65	-	543+38	STH 22, LT	-	-	-	12.5	39.6	-	1	NW QUADRANT OF B-58-116
0010	546+36	-	552+79	STH 22, LT	-	550	-	-	39.6	1	-	NE QUADRANT OF B-58-116
0010	546+80	-	553+98	STH 22, RT	-	625	-	-	39.6	1	-	SE QUADRANT OF B-58-116
				9180-17-72 TOTAL	0	1,775	0	12.5	158.4	5	1	
				PROJECT TOTAL	2	1,900	225	25.5	158.4	12	2	

SILT FENCE

CATEGORY	STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	REMARKS
PROJECT 9180-17-71							
0010	201+20	-	202+00	STH 22, LT	94	188	C-58-22
0010	201+40	-	202+00	STH 22, RT	68	136	C-58-22
0010	220+30	-	223+00	STH 22, RT	278	556	C-5774
0010	221+80	-	223+22	STH 22, LT	130	260	C-5774
0010	234+25	-	237+60	STH 22, LT	251	502	C-5775
0010	234+50	-	237+45	STH 22, RT	300	600	C-5775
0010	271+05	-	272+00	STH 22, RT	95	190	C-5777
0010	293+05	-	297+65	STH 22, RT	194	388	C-58-27
0010	294+75	-	297+40	STH 22, LT	136	272	C-58-27
0010	304+25	-	307+25	STH 22, LT	272	544	C-5779
0010	304+50	-	307+30	STH 22, RT	263	526	C5779
0010	316+00	-	323+25	STH 22, LT	710	1,420	CTH R
0010	316+00	-	331+50	STH 22, RT	981	1,962	CTH R
0010				UNDISTRIBUTED	948	1,906	
				TOTAL 0010	4,720	9,450	
0030	159+25	-	161+30	STH 22, RT	214	428	RESORT RD
0030				UNDISTRIBUTED	66	122	
				TOTAL 0030	280	550	
				9180-17-71 TOTAL	5,000	10,000	

SILT FENCE MAINTENANCE (CONTINUED)

CATEGORY	STATION	TO	STATION	LOCATION	628.1520 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	REMARKS
PROJECT 9180-17-72							
0010	377+00	-	384+60	STH 22, LT	515	1,030	C-5783
0010	379+20	-	380+45	STH 22, RT	142	284	C-5783
0010	400+80	-	404+55	STH 22, RT	163	326	C-5786
0010	401+45	-	404+10	STH 22, LT	219	438	C-5786
0010	423+95	-	427+12	STH 22, RT	301	602	C-5787
0010	424+05	-	426+60	STH 22, LT	231	462	C-5787
0010	441+80	-	445+05	STH 22, LT	304	608	C-5788
0010	442+00	-	444+85	STH 22, RT	262	524	C-5788
0010	450+00	-	453+15	STH 22, LT	286	572	C-5790
0010	450+20	-	452+95	STH 22, RT	248	496	C-5790
0010	457+25	-	464+85	STH 22, RT	368	736	C-5791
0010	457+75	-	460+95	STH 22, LT	273	546	C-5791
0010	494+85	-	498+75	STH 22, LT	342	684	C-5793
0010	494+95	-	498+70	STH 22, RT	335	670	C5793
0010	517+95	-	521+15	STH 22, RT	294	588	C-5798
0010	518+10	-	521+00	STH 22, LT	282	564	C-5798
0010	538+95	-	543+90	STH 22, RT	206	412	B-58-116
0010	541+50	-	543+35	STH 22, LT	116	232	B-58-116
0010	546+30	-	556+50	STH 22, LT	801	1,602	B-58-116
0010	546+85	-	556+50	STH 22, RT	622	1,244	B-58-116
0010	569+95	-	574+70	STH 22, LT	139	278	C-5801
0010	584+00	-	591+95	STH 22, RT	120	240	C-7482
0010				UNDISTRIBUTED	1,631	3,262	
				9180-17-72 TOTAL	8,200	16,400	
				PROJECT TOTAL	13,200	26,400	

MOBILIZATIONS EROSION CONTROL

CATEGORY	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
PROJECT 9180-17-71			
0010	PROJECT	6	3
	9180-17-71 TOTAL	6	3
PROJECT 9180-17-72			
0010	PROJECT	6	3
	9180-17-72 TOTAL	6	3
	PROJECT TOTAL	12	6

INLET PROTECTION

CATEGORY	STATION	LOCATION	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH
PROJECT 9180-17-72				
0010	597+73	STH 22, LT	1	1
0010	598+07	STH 22, RT	1	1
0010	600+41	STH 22, LT	1	1
0010	600+52	STH 22, RT	1	1
0010	604+08	STH 22, RT	1	1
0010	604+16	STH 22, LT	1	1
0010	606+72	STH 22, RT	1	1
0010	606+76	STH 22, LT	1	1
0010	608+87	STH 22, RT	1	1
0010	608+87	STH 22, LT	1	1
0010	608+93	STH 22, RT	1	1
0010	608+93	STH 22, LT	1	1
0010	609+94	STH 22, RT	1	1
0010	609+98	STH 22, LT	1	1
0010	612+46	STH 22, RT	1	1
0010	612+47	STH 22, LT	1	1
0010	614+73	STH 22, RT	1	1
0010	614+73	STH 22, LT	1	1
		PROJECT TOTAL	18	18

TEMPORARY DITCH CHECKS

CATEGORY	STATION	LOCATION	628.7504 LF
PROJECT 9180-17-71			
0010	198+75	STH 22, RT	15
0010	198+75	STH 22, LT	15
0010	200+45	STH 22, RT	15
0010	201+20	STH 22, RT	15
0010	220+25	STH 22, LT	15
0010	236+50	STH 22, LT	15
0010	293+10	STH 22, LT	15
0010	293+25	STH 22, RT	15
0010	294+95	STH 22, LT	15
0010	295+25	STH 22, RT	15
0010	295+25	STH 22, LT	15
0010	295+60	STH 22, RT	15
0010	297+00	STH 22, LT	15
0010	312+40	STH 22, LT	15
0010	312+40	STH 22, RT	15
0010	313+55	STH 22, RT	15
0010	313+75	STH 22, LT	15
0010	315+00	STH 22, RT	15
0010	315+25	STH 22, LT	15
0010	324+75	STH 22, LT	15
0010	332+25	STH 22, RT	15
0010	332+25	STH 22, LT	15
0010		UNDISTRIBUTED	85
		TOTAL 0010	415
0030	159+25	STH 22, LT	15
0030	161+25	STH 22, LT	15
0030	162+10	STH 22, RT	15
0030	163+25	STH 22, LT	15
0030	163+50	STH 22, RT	15
0030	165+25	STH 22, LT	15
0030	165+35	STH 22, RT	15
0030	166+00	STH 22, RT	15
0030	167+00	STH 22, RT	15
0030	167+25	STH 22, LT	15
0030	169+00	STH 22, RT	15
0030	169+25	STH 22, LT	15
0030	170+10	STH 22, RT	15
0030	170+50	STH 22, LT	15
0030		UNDISTRIBUTED	55
		TOTAL 0030	265
		9180-17-71 TOTAL	680

TURBIDITY BARRIERS

CATEGORY	STATION	TO	STATION	LOCATION	628.6005 SY	REMARKS
PROJECT 9180-17-71						
0010	271+60	-	272+15	STH 22, LT	70	C-5777
				PROJECT TOTAL	70	

TEMPORARY DITCH CHECKS (CONTINUED)

CATEGORY	STATION	LOCATION	628.7504 LF
PROJECT 9180-17-72			
0010	377+60	STH 22, LT	15
0010	378+65	STH 22, LT	15
0010	382+75	STH 22, LT	15
0010	402+35	STH 22, LT	15
0010	402+50	STH 22, RT	15
0010	460+75	STH 22, RT	15
0010	462+00	STH 22, RT	15
0010	463+25	STH 22, RT	15
0010	540+00	STH 22, RT	15
0010	541+50	STH 22, RT	15
0010	543+25	STH 22, RT	15
0010	553+00	STH 22, LT	15
0010	554+50	STH 22, RT	15
0010	572+00	STH 22, RT	15
0010	572+75	STH 22, LT	15
0010	576+75	STH 22, LT	15
0010	577+00	STH 22, RT	15
0010	577+75	STH 22, LT	15
0010	578+20	STH 22, RT	15
0010	585+00	STH 22, RT	15
0010	586+75	STH 22, RT	15
0010	588+25	STH 22, RT	15
0010	589+25	STH 22, LT	15
0010	589+35	STH 22, RT	15
0010	591+25	STH 22, LT	15
0010		UNDISTRIBUTED	95
		9180-17-72 TOTAL	470
		PROJECT TOTAL	1,150

CULVERT PIPE CHECKS

CATEGORY	STATION	LOCATION	628.7555 EACH	CULVERT SIZE	REMARKS
PROJECT 9180-17-71					
0010	200+75	STH 22, RT	2	18"	DRIVEWAY
0010	201+00	STH 22, LT	2	18"	DRIVEWAY
0010	220+88	STH 22, LT	5	30"	FIELD ENTRANCE
0010	221+69	STH 22, RT	5	30"	C-5774
0010	235+94	STH 22, RT	7	36"	C-5775
0010	271+30	STH 22, RT	3	24"	EXISTING
0010	271+89	STH 22, RT	10	34" X 53"	C-5777
0010	271+97	STH 22, RT	10	34" X 53"	C-5777
0010	292+75	STH 22, LT	2	18"	EXISTING
0010	296+70	STH 22, RT	2	18"	EXISTING
0010	297+25	STH 22, RT	2	18"	EXISTING
0010	305+69	STH 22, RT	10	29" X 45"	C-5779
0010	305+76	STH 22, RT	10	29" X 45"	C-5779
0010	316+15	STH 22, RT	2	18"	EXISTING
0010	316+25	STH 22, LT	5	30"	EXISTING
0010	320+20	STH 22, RT	5	30"	EXISTING
0010	324+00	STH 22, LT	3	24"	EXISTING
0010		UNDISTRIBUTED	22		
		TOTAL 0010	107		
0030	166+12	STH 22, RT	7	36"	RESORT RD
0030	166+64	STH 22, LT	2	18"	RESORT RD
0030		UNDISTRIBUTED	4		
		TOTAL 0030	13		
		9180-17-71 TOTAL	120		
PROJECT 9180-17-72					
0010	379+83	STH 22	3	24"	C-5783
0010	383+85	STH 22	3	18"	EXISTING
0010	402+70	STH 22	3	24"	C-5786
0010	425+32	STH 22	3	24"	C-5787
0010	443+50	STH 22	3	24"	C-5788
0010	451+56	STH 22	7	36"	C-5790
0010	459+38	STH 22	5	30"	C-5791
0010	459+95	STH 22	3	24"	EXISTING
0010	496+89	STH 22	3	24"	C-5793
0010	519+54	STH 22	5	30"	C-5798
0010	542+25	STH 22	5	30"	EXISTING
0010	572+55	STH 22	7	36"	C-5801
0010	577+37	STH 22	7	36"	C-5802
0010	590+47	STH 22	10	54"	C-7482
0010		UNDISTRIBUTED	17		
		9180-17-72 TOTAL	84		
		PROJECT TOTAL	204		

LANDSCAPING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.2027 EROSION MAT CLASS II TYPE C SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0500 SEED WATER MGAL
PROJECT 9180-17-72											
0010	197+27	-	201+95	STH 22, RT	949	708	-	241	0.6	18	22
0010	197+70	-	201+95	STH 22, LT	675	558	-	118	0.5	13	16
0010	219+85	-	223+10	STH 22, LT	765	625	-	140	0.5	14	18
0010	220+40	-	222+95	STH 22, RT	219	182	-	37	0.2	4	5
0010	234+28	-	237+60	STH 22, LT	656	540	-	116	0.5	12	15
0010	234+50	-	237+35	STH 22, RT	362	322	-	40	0.3	7	9
0010	270+30	-	272+50	STH 22, LT	399	357	-	43	0.3	8	9
0010	271+05	-	272+20	STH 22, RT	127	68	-	59	0.1	3	3
0010	293+10	-	297+50	STH 22, RT	385	-	332	54	0.3	7	9
0010	293+10	-	297+50	STH 22, LT	667	-	592	76	0.5	13	15
0010	304+45	-	307+00	STH 22, LT	185	136	-	49	0.2	4	5
0010	304+55	-	307+10	STH 22, RT	229	181	-	48	0.2	5	6
0010	312+37	-	333+39	STH 22, RT	2,263	1,872	-	392	1.5	41	51
0010	312+37	-	333+39	STH 22, LT	2,669	2,141	-	528	1.7	49	60
0010				UNDISTRIBUTED	2,650	2,210	276	559	2.6	52	57
				TOTAL 0010	13,200	9,900	1,200	2,500	10	250	300
0030	159+25	-	170+50	STH 22, RT	2,456	1,598	-	858	1.6	45	56
0030	159+25	-	170+50	STH 22, LT	2,778	1,722	-	1,056	1.8	50	63
0030				UNDISTRIBUTED	1,366	880	-	486	1.6	25	31
				TOTAL 0030	6,600	4,200	0	2,400	5	120	150
				9180-17-71 TOTAL	19,800	14,100	1,200	4,900	15	370	450
PROJECT 9180-17-72											
0010	377+13	-	384+55	STH 22, LT	1,904	1,649	-	256	1.2	35	43
0010	379+31	-	380+35	STH 22, RT	299	249	-	51	0.2	6	7
0010	401+10	-	404+30	STH 22, RT	365	218	-	147	0.3	7	9
0010	401+55	-	403+85	STH 22, LT	129	77	-	52	0.1	3	3
0010	424+05	-	426+90	STH 22, RT	287	223	-	64	0.2	6	7
0010	424+25	-	426+35	STH 22, LT	180	100	-	80	0.2	4	5
0010	442+00	-	444+85	STH 22, LT	276	229	-	48	0.2	5	7
0010	442+25	-	444+60	STH 22, RT	272	208	-	64	0.2	5	7
0010	450+15	-	453+00	STH 22, LT	221	164	-	58	0.2	4	5
0010	450+45	-	452+70	STH 22, RT	251	193	-	58	0.2	5	6
0010	457+40	-	464+95	STH 22, RT	3,342	2,953	-	390	2.2	61	76
0010	458+00	-	460+75	STH 22, LT	319	278	-	41	0.3	6	8
0010	495+10	-	498+50	STH 22, LT	653	611	-	42	0.5	12	15
0010	496+29	-	497+33	STH 22, RT	492	454	-	39	0.4	9	12
0010	518+20	-	520+90	STH 22, RT	331	277	-	55	0.3	6	8
0010	518+30	-	520+75	STH 22, LT	322	265	-	57	0.3	6	8
0010	539+25	-	543+75	STH 22, RT	378	337	-	42	0.3	7	9
0010	541+75	-	543+37	STH 22, LT	159	159	-	-	0.1	3	4
0010	546+36	-	556+00	STH 22, LT	897	777	-	120	0.6	17	21
0010	547+00	-	556+00	STH 22, RT	877	544	-	334	0.6	16	20
0010	570+05	-	574+70	STH 22, RT	1,413	1,080	-	334	0.9	26	32
0010	570+25	-	574+90	STH 22, LT	549	512	-	38	0.4	10	13
0010	575+85	-	578+85	STH 22, RT	604	423	-	182	0.4	11	14
0010	575+85	-	578+85	STH 22, LT	553	370	-	184	0.4	10	13
0010	583+90	-	591+70	STH 22, RT	2,695	2,070	-	625	1.7	49	61
0010	588+15	-	591+85	STH 22, LT	952	673	-	280	0.6	18	22
0010	603+16	-	603+27	STH 22, LT	8	8	-	-	0.1	1	1
0010				UNDISTRIBUTED	4,772	3,799	-	959	3.9	92	114
				9180-17-72 TOTAL	23,500	18,900	0	4,600	17	440	550
				PROJECT TOTAL	43,300	33,000	1,200	9,500	32	810	1,000

3

MOVING SIGNS

CATEGORY	STATION	LOCATION	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH
PROJECT 9180-17-71				
0010	295+80	STH 22, LT	1	1
0010	295+82	STH 22, RT	1	1
0010	313+95	STH 22, RT	1	1
0010	314+30	STH 22, LT	1	1
0010	319+35	STH 22, RT	1	1
0010	319+50	STH 22, LT	1	1
0010	324+35	STH 22, LT	1	1
0010	332+50	STH 22, LT	1	1
		9180-17-71 TOTAL	8	8
PROJECT 9180-17-72				
0010	383+10	STH 22, LT	1	1
0010	543+70	STH 22, RT	1	1
0010	546+45	STH 22, LT	1	1
0010	573+50	STH 22, LT	1	1
0010	589+25	STH 22, LT	1	1
0010	589+75	STH 22, RT	1	1
0010	591+10	STH 22, RT	1	1
		9180-17-72 TOTAL	7	7
		PROJECT TOTAL	15	15

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	APPROXIMATE SERVICE PERIOD DAYS	643.0300 TRAFFIC CONTROL DRUMS NO. IN SERVICE	643.0300 TRAFFIC CONTROL DRUMS DAY	* 643.0900 TRAFFIC CONTROL SIGNS NO. IN SERVICE	* 643.0900 TRAFFIC CONTROL SIGNS DAY	REMARKS
PROJECT 9180-17-71							
0010	STH 22	181	-	-	10	1,810	ADVANCE WARNING
0010	STH 22	181	30	5,430	10	1,810	FLAGGING
0010	STH 22	60	30	1,800	10	600	LANE SHIFTS - CULVERT REPLACEMENTS
0010	SIDE ROADS	181	-	-	11	1,991	ROAD WORK AHEAD
	9180-17-71 TOTAL			7,230		6,211	
PROJECT 9180-17-72							
0010	STH 22	181	-	-	10	1,810	ADVANCE WARNING
0010	STH 22	181	30	5,430	10	1,810	FLAGGING
0010	STH 22	60	30	1,800	10	600	LANE SHIFTS - CULVERT REPLACEMENTS
0010	STH 22	10	-	-	1	10	SIDEWALK CLOSURE
0010	SIDE ROADS	181	-	-	10	1,810	ROAD WORK AHEAD
	9180-17-72 TOTAL			7,230		6,040	
	PROJECT TOTAL			14,460		12,251	

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

TRAFFIC CONTROL SIGNS FIXED MESSAGE

CATEGORY	LOCATION	643.1000 SF	REMARKS
PROJECT 9180-17-71			
0010	BEGIN PROJECT	18	"HWY 22 ROAD WORK BEGINS XXX-XX"
0010	BEGIN DETOUR	18	"HWY 22 ROAD CLOSED BEGINS XXX-XX"
	9180-17-71 TOTAL	36	
PROJECT 9180-17-72			
0010	END PROJECT	18	"HWY 22 ROAD WORK BEGINS XXX-XX"
0010	END DETOUR	18	"HWY 22 ROAD CLOSED BEGINS XXX-XX"
	9180-17-72 TOTAL	36	
	PROJECT TOTAL	72	

TRAFFIC CONTROL DETOUR SIGNS AND COVERING SIGNS

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. 15 SERVICE PERIOD DAYS	* 643.0900 TRAFFIC CONTROL SIGNS DAYS	NO OF CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	REMARKS
101	STH 22, PLACE 1100' E OF STH 117 INTERSECTION	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	W20-2A	48" X 48"	1	26	26			
102	STH 22, MODIFY EXISTING SIGN E OF STH 117 INTERSECTION	MO5-1R	21" X 21"	1	26	26			
103	STH 22, PLACE 800' E OF STH 117 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO5-1R	21" X 21"	1	26	26			
104	STH 22, MODIFY EXISTING SIGN E OF STH 117 INTERSECTION	A4-12	14" X 14"	1	26	26			
105	STH 22, PLACE E OF STH 117 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO6-1	21" X 21"	1	26	26			
107	STH 22, PLACE W OF STH 117 INTERSECTION	R11-4	60" X 30"	1	26	26			
108	STH 117, PLACE S OF STH 22	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
109	STH 117, PLACE 500' N OF CTH E INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	M5-1L	21" X 21"	1	26	26			
110	STH 117, PLACE N OF CTH E INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO6-1	21" X 21"	1	26	26			
111	STH 117, PLACE 1500' S OF CTH E INTERSECTION	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	W20-2A	48" X 48"	1	26	26			
112	STH 117, PLACE 500' S OF CTH E INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO5-1R	21" X 21"	1	26	26			
113	STH 117, PLACE S OF CTH E INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO6-1	21" X 21"	1	26	26			
	PAGE SUBTOTALS			36		936		0	

*ADDITIONAL QUANTITY SHOWN ELSEWHERE

TRAFFIC CONTROL DETOUR SIGNS AND COVERING SIGNS

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. 15 SERVICE PERIOD DAYS	* 643.0900 TRAFFIC CONTROL SIGNS DAYS	NO OF CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	REMARKS
114	CTH E, PLACE E OF STH 117 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
115	CTH E, PLACE E OF CTH F INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO6-1	21" X 21"	1	26	26			
116	CTH E, PLACE E OF CTH C INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
117	CTH E, PLACE E OF CTH BB INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO6-1	21" X 21"	1	26	26			
118	CTH E, PLACE 500' W OF STH 32 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	M5-1L	21" X 21"	1	26	26			
119	CTH E, PLACE W OF STH 32 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO6-1	21" X 21"	1	26	26			
120	STH 32, PLACE N OF CTH E INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
121	STH 32, COVER EXISTING SIGN 500' E OF STH 22 INTERSECTION							1	
122	STH 32, COVER EXISTING SIGN E OF STH 22 INTERSECTION							1	
123	STH 22, PLACE 1500' N OF STH 32 INTERSECTION	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	W20-2A	48" X 48"	1	26	26			
124	STH 22, COVER EXISTING SIGN N OF STH 32 INTERSECTION	A4-12	14" X 14"	1	26	26			
125	STH 22, PLACE 500' N OF STH 32 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO5-1L	21" X 21"	1	26	26			
126	STH 22, COVER EXISTING SIGN N OF STH 32 INTERSECTION	MO6-2	21" X 21"	1	26	26			
127	STH 22, COVER EXISTING SIGN N OF STH 32 INTERSECTION							1	
128	STH 22, PLACE 500' S OF STH 32 INTERSECTION	R11-3	60" X 30"	1	26	26			
130	STH 22, PLACE 1.1 MI N OF CTH C INTERSECTION	R11-4	60" X 30"	1	26	26			
131	STH 32, PLACE 500' N OF CTH E INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO5-1R	21" X 21"	1	26	26			
132	STH 32, PLACE N OF CTH E INTERSECTION	M4-8	24" X 12"	1	26	26			
		M3-3	24" X 12"	1	26	26			
		M1-6	24" X 24"	1	26	26			22
		MO6-1	21" X 21"	1	26	26			
	PAGE SUBTOTALS			44		1,144		3	

*ADDITIONAL QUANTITY SHOWN ELSEWHERE

TRAFFIC CONTROL DETOUR SIGNS AND COVERING SIGNS

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. 15 SERVICE PERIOD DAYS	* 643.0900 TRAFFIC CONTROL SIGNS DAYS	NO OF CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	REMARKS
133	CTH E, PLACE 500' W OF STH 32 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
134	CTH E, PLACE W OF CTH BB INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	M06-1	12" X 21"	1	26	26			
135	CTH E, PLACE 500' W OF STH 32 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
136	CTH E, PLACE W OF CTH F INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	M06-1	12" X 21"	1	26	26			
137	CTH E, PLACE 500' E OF STH 117 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	M05-1R	21" X 21"	1	26	26			
138	CTH E, PLACE E OF STH 117 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	M06-1	21" X 21"	1	26	26			
139	STH 117, COVER EXISTING SIGN N OF CTH E INTERSECTION							1	
140	STH 117, COVER EXISTING SIGN S OF STH 22 INTERSECTION							1	Gillet Oconto →
141	STH 117, COVER EXISTING SIGN S OF STH 22 INTERSECTION							1	
142	STH 117, PLACE S OF STH 22 INTERSECTION	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	M06-1	21" X 21"	1	26	26			
143	STH 22, PLACE 1000' W OF STH 117 INTERSECTION	M4-8A	24" X 18"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
144	STH 22, PLACE 1000' E OF CTH K INTERSECTION	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	W20-2A	48" X 48"	1	26	26			
145	STH 22, COVER EXISTING SIGN W OF CTH K INTERSECTION							1	SOUTH
146	STH 22, PLACE 1000' W OF CTH K INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	M05-1L	21" X 21"	1	26	26			
	PAGE SUBTOTALS			35		910		4	

*ADDITIONAL QUANTITY SHOWN ELSEWHERE

TRAFFIC CONTROL DETOUR SIGNS AND COVERING SIGNS

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. 15 SERVICE PERIOD DAYS	* 643.0900 TRAFFIC CONTROL SIGNS DAYS	NO OF CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	REMARKS
147	STH 22, PLACE 500' E OF STH 32 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO6-1	21" X 21"	1	26	26			
148	STH 22, COVER EXISTING SIGN W OF STH 32 INTERSECTION							1	
149	STH 22, COVER EXISTING SIGN W OF STH 32 INTERSECTION							1	
150	STH 22, COVER EXISTING SIGN W OF STH 32 INTERSECTION							1	↑ Shawano
151	STH 22, COVER EXISTING SIGN W OF STH 32 INTERSECTION							1	
152	STH 22, PLACE 1000' W OF STH 32 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	M05-1R	21" X 21"	1	26	26			
153	STH 22, PLACE W OF STH 32 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO6-1	21" X 21"	1	26	26			
154	STH 32, PLACE 500' S OF STH 22 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
155	STH 32, COVER EXISTING SIGN S OF STH 22 INTERSECTION							1	
156	STH 32, PLACE 1000' S OF STH 22 INTERSECTION	M4-8	24" X 12"	1	26	26			
	"	M3-1	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	MO5-1R	21" X 21"	1	26	26			
157	STH 32, PLACE 500' S OF STH 22 INTERSECTION	M3-1	24" X 12"	1	26	26			
		M1-6	24" X 24"	1	26	26			22
	"	MO6-1	21" X 21"	1	26	26			
158	STH 22, PLACE 1000' INTERSECTION	M3-3	24" X 12"	1	26	26			
	"	M1-6	24" X 24"	1	26	26			22
	"	W20-2A	48" X 48"	1	26	26			
	PAGE SUBTOTALS			25		650		5	
	PROJECT TOTALS			140		3,640		12	

*ADDITIONAL QUANTITY SHOWN ELSEWHERE

3

TEMPORARY PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	MARKING LINE EPOXY 6-INCH YELLOW LF	MARKING LINE EPOXY 6-INCH WHITE LF	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH LF	643.3265 TEMPORARY MARKING LINE PAINT 10-INCH LF
PROJECT 9180-17-71								
0010	22+80	-	28+00	STH 22	650	840	1,490	-
0010	28+00	-	35+25	STH 22	190	1450	1,640	-
0010	35+25	-	46+60	STH 22	1420	2170	3,590	-
0010	46+60	-	48+75	STH 22	430	430	860	-
0010	48+75	-	60+00	STH 22	1410	2150	3,560	-
0010	60+00	-	159+00	STH 22	2480	19200	21,680	-
0010	170+50		271+50	STH 22	2530	19300	21,830	-
0010	271+50	-	277+75	STH 22	790	1150	1,940	195
0010	277+75	-	290+25	STH 22	2500	2400	4,900	-
0010	290+25	-	297+00	STH 22	850	1350	2,200	-
0010	297+00	-	308+50	STH 22	290	2100	2,390	-
0010	308+50	-	333+39	STH 22	4530	3520	8,050	1,105
0010	10+58U	-	10+84U	CTH R	60	60	120	-
				TOTAL 0010			74,250	1,300
0030	159+00	-	170+50	STH 22	3,700	2,060	5,760	230
				TOTAL 0030			5,760	230
				9180-17-71 TOTAL			80,010	1,530
PROJECT 9180-17-72								
0010	333+39	-	335+00	STH 22	330	330	660	-
0010	335+00	-	343+25	STH 22	210	1650	1,860	-
0010	343+25	-	355+00	STH 22	1470	2350	3,820	-
0010	355+00	-	383+50	STH 22	5700	5700	11,400	-
0010	383+50	-	395+00	STH 22	1440	2200	3,640	-
0010	395+00	-	452+75	STH 22	1450	11150	12,600	160
0010	452+75	-	464+25	STH 22	1440	2300	3,740	-
0010	464+25	-	489+25	STH 22	5000	4800	9,800	-
0010	489+25	-	500+75	STH 22	1440	2200	3,640	-
0010	500+75	-	522+50	STH 22	550	4250	4,800	-
0010	522+50	-	533+25	STH 22	1350	2150	3,500	-
0010	533+25	-	533+75	STH 22	100	100	200	-
0010	533+75	-	543+75	STH 22	1250	1900	3,150	-
0010	543+75	-	551+00	STH 22	190	1450	1,640	-
0010	551+00	-	573+50	STH 22	2820	4300	7,120	-
0010	573+50	-	574+25	STH 22	150	150	300	-
0010	574+25	-	585+25	STH 22	1380	2200	3,580	-
0010	585+25	-	603+50	STH 22	3650	1950	5,600	-
0010	603+50	-	610+00	STH 22	820	-	820	-
0010	610+00	-	622+50	STH 22	320	800	1,120	-
0010	622+50	-	634+00	STH 22	1440	2300	3,740	-
0010	10+65Z	-	10+87Z	CTH V	50	50	100	-
0010	10+59AF	-	10+89AF	CTH C	60	60	120	-
				9180-17-72 TOTAL			86,950	160
				PROJECT TOTAL			166,960	1,690

3

PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	MARKING LINE EPOXY 6-INCH YELLOW LF	MARKING LINE EPOXY 6-INCH WHITE LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.6466 COLD WEATHER MARKING EPOXY 6-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	646.7320 MARKING CHEVRON EPOXY 12-INCH LF
PROJECT 9180-17-71													
0010	22+80	-	28+00	STH 22	650	840	1,490	-	-	-	1,490	-	-
0010	28+00	-	35+25	STH 22	190	1,450	1,640	-	-	-	1,640	-	-
0010	35+25	-	46+60	STH 22	1,420	2,170	3,590	-	-	-	3,590	-	-
0010	46+60	-	48+75	STH 22	430	430	860	-	-	-	860	-	-
0010	48+75	-	60+00	STH 22	1,410	2,150	3,560	-	-	-	3,560	-	-
0010	60+00	-	159+00	STH 22	2,480	19,200	21,680	-	-	-	21,680	-	-
0010	170+50		271+50	STH 22	2,530	19,300	21,830	-	-	-	21,830	-	-
0010	271+50	-	277+75	STH 22	790	1,150	1,940	195	-	-	1,940	-	-
0010	277+75	-	290+25	STH 22	2,500	2,400	4,900	-	-	-	4,900	-	-
0010	290+25	-	297+00	STH 22	850	1,350	2,200	-	-	-	2,200	-	-
0010	297+00	-	308+50	STH 22	290	2,100	2,390	-	-	-	2,390	-	-
0010	308+50	-	333+39	STH 22	4,530	3,520	8,050	1,105	4	1	8,050	365	145
0010	10+58U	-	10+84U	CTH R	60	60	120	-	-	-	120	-	-
				TOTAL 0010			74,250	1,300	4	1	74,250	365	145
0030	159+00	-	170+50	STH 22	3,700	2,060	5,760	230	2	1	5,760	335	-
				TOTAL 0030			5,760	230	2	1	5,760	335	0
				9180-17-71 TOTAL			80,010	1,530	6	2	80,010	700	145
PROJECT 9180-17-72													
0010	333+39	-	335+00	STH 22	330	330	660	-	-	-	660	-	-
0010	335+00	-	343+25	STH 22	210	1650	1,860	-	-	-	1,860	-	-
0010	343+25	-	355+00	STH 22	1470	2350	3,820	-	-	-	3,820	-	-
0010	355+00	-	383+50	STH 22	5700	5700	11,400	-	-	-	11,400	-	-
0010	383+50	-	395+00	STH 22	1440	2200	3,640	-	-	-	3,640	-	-
0010	395+00	-	452+75	STH 22	1450	11150	12,600	160	-	-	12,600	-	-
0010	452+75	-	464+25	STH 22	1440	2300	3,740	-	-	-	3,740	-	-
0010	464+25	-	489+25	STH 22	5000	4800	9,800	-	-	-	9,800	-	-
0010	489+25	-	500+75	STH 22	1440	2200	3,640	-	-	-	3,640	-	-
0010	500+75	-	522+50	STH 22	550	4250	4,800	-	-	-	4,800	-	-
0010	522+50	-	533+25	STH 22	1350	2150	3,500	-	-	-	3,500	-	-
0010	533+25	-	533+75	STH 22	100	100	200	-	-	-	200	-	-
0010	533+75	-	543+75	STH 22	1250	1900	3,150	-	-	-	3,150	-	-
0010	543+75	-	551+00	STH 22	190	1450	1,640	-	-	-	1,640	-	-
0010	551+00	-	573+50	STH 22	2820	4300	7,120	-	-	-	7,120	-	-
0010	573+50	-	574+25	STH 22	150	150	300	-	-	-	300	-	-
0010	574+25	-	585+25	STH 22	1380	2200	3,580	-	-	-	3,580	-	-
0010	585+25	-	603+50	STH 22	3650	1950	5,600	-	-	-	5,600	-	-
0010	603+50	-	610+00	STH 22	820	0	820	-	-	-	820	-	-
0010	610+00	-	622+50	STH 22	320	800	1,120	-	-	-	1,120	-	-
0010	622+50	-	634+00	STH 22	1440	2300	3,740	-	-	-	3,740	-	-
0010	10+65Z	-	10+87Z	CTH V	50	50	100	-	-	-	100	-	-
0010	10+59AF	-	10+89AF	CTH C	60	60	120	-	-	-	120	-	-
				9180-17-72 TOTAL			86,950	160	0	0	86,950	0	0
				PROJECT TOTAL			166,960	1,690	6	2	166,960	700	145

3

LOCATING NO-PASSING ZONES

CATEGORY	STATION	TO	STATION	LOCATION	648.0100 MI
PROJECT 9180-17-71					
0010	24+01	-	76+25	STH 22	0.990
				PROJECT TOTAL	1

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.6501.01 CONSTRUCTION STAKING STRUCTURE LAYOUT C-58-27 EACH	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9500.01 CONSTRUCTION STAKING SIDEWALK 9180-17-72 EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	REMARKS
PROJECT 9180-17-71												
0010	22+80	-	159+25	STH 22	-	-	-	13,625	-	-	-	
0010	170+50	-	339+39	STH 22	-	9	-	16,320	-	-	3,395	
				TOTAL 0010	0	9	0	29,945	0	0	3,395	
0020	295+17	-	295+37	STH 22	-	-	1	-	-	-	-	C-58-27
				TOTAL 0020	0	0	1	0			0	
0030	159+25	-	170+50	STH 22	281	2	-	1,125	-	-	1,125	RESORT RD
				TOTAL 0030	281	2	0	1,125	0	0	1,125	
				9180-17-71 TOTAL	281	11	1	31,070	0	0	4,520	
PROJECT 9180-17-72												
0010	333+39	-	634+00	STH 22	160	11	-	29,800	2	1	22,515	
				9180-17-72 TOTAL	160	11	0	29,800	2	1	22,515	
				PROJECT TOTAL	441	22	1	60,870	2	1	27,035	

SAWING

CATEGORY	STATION	TO	STATION	LOCATION	* 690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
PROJECT 9180-17-71							
0010	22+80	-	25+50	STH 22	54	-	DRIVEWAYS
0010	81+25	-	116+00	STH 22	1,028	-	DRIVEWAYS
0010	116+00	-	138+00	STH 22	20	-	DRIVEWAYS
0010	258+50	-	277+50	STH 22	439	-	DRIVEWAYS
0010	277+50	-	299+50	STH 22	309	-	DRIVEWAYS
0010	299+50	-	315+75	STH 22	94	-	DRIVEWAYS
0010	312+37	-	333+39	STH 22, RT	1,670	-	CTH R INTERSECTION
0010	312+37	-	333+39	STH 22, LT	1,766	-	CTH R INTERSECTION
				TOTAL 0010	5,380	0	
0030	160+73	-	170+34	STH 22, RT	1,135	-	RESORT RD INTERSECTION
0030	160+98	-	170+51	STH 22, LT	1,136	-	RESORT RD INTERSECTION
0030		8+21		RESORT RD	23	-	RESORT RD INTERSECTION
0030	10+60	-	10+94	RESORT RD	66	-	RESORT RD INTERSECTION
				TOTAL 0030	2,360	0	
				9180-17-71 TOTAL	7,740	0	

SAWING (CONTINUED)

CATEGORY	STATION	TO	STATION	LOCATION	* 690.0150 SAWING LF	690.0250 SAWING LF	REMARKS
PROJECT 9180-17-72							
0010	333+39	-	364+50	STH 22	49	-	DRIVEWAYS
0010	364+50	-	388+25	STH 22	27	-	DRIVEWAYS
0010	448+50	-	468+00	STH 22	14	-	DRIVEWAYS
0010	536+50	-	543+90	STH 22	83	-	DRIVEWAYS
0010	542+81	-	543+35	STH 22, LT	46	16	CURB & GUTTER PLACEMENT
0010	543+25	-	543+80	STH, 22 RT	20	42	CURB & GUTTER PLACEMENT
0010	546+39	-	546+93	STH 22, LT	20	42	CURB & GUTTER PLACEMENT
0010	546+83	-	547+37	STH, 22 RT	46	16	CURB & GUTTER PLACEMENT
0010	566+50	-	593+25	STH 22	24	-	DRIVEWAYS
0010	587+58	-	591+83	STH, 22 RT	426	-	C-7482
0010	587+84	-	591+83	STH 22, LT	398	-	C-7482
0010	597+25	-	617+75	STH 22	41	-	DRIVEWAYS
0010	597+56	-	597+75	STH 22, LT	90	5	CURB RAMP
0010	598+02	-	598+12	STH 22, RT	15	5	ADJUSTING INLET
0010	600+37	-	600+45	STH 22, LT	12	8	ADJUSTING INLET
0010	600+48	-	600+56	STH 22, RT	12	13	ADJUSTING INLET
0010	603+19	-	603+24	STH 22, LT	18	5	CURB RAMP
0010	604+04	-	604+12	STH 22, RT	12	5	ADJUSTING INLET
0010	604+12	-	604+20	STH 22, LT	12	5	ADJUSTING INLET
0010	606+68	-	606+76	STH 22, RT	12	5	ADJUSTING INLET
0010	606+72	-	606+80	STH 22, LT	12	5	ADJUSTING INLET
0010	608+83	-	608+97	STH 22, RT	18	5	ADJUSTING INLET
0010	608+83	-	608+97	STH 22, LT	18	5	ADJUSTING INLET
0010	609+91	-	609+99	STH 22, RT	12	5	ADJUSTING INLET
0010	609+95	-	610+01	STH 22, LT	12	13	ADJUSTING INLET
0010	612+43	-	612+51	STH 22, RT	12	5	ADJUSTING INLET
0010	612+43	-	612+51	STH 22, LT	12	5	ADJUSTING INLET
0010	614+69	-	614+77	STH 22, RT	12	5	ADJUSTING INLET
0010	614+69	-	614+77	STH 22, LT	12	5	ADJUSTING INLET
0010	617+75	-	634+00	STH 22	23	-	DRIVEWAYS
				9180-17-72 TOTAL	1,520	220	
				PROJECT TOTAL	9,260	220	

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM

CATEGORY	STATION	LOCATION	999.2000.S.01 EACH	REMARKS
PROJECT 9180-17-71				
0010	295+30	STH 22	1	C-58-0027
		PROJECT TOTAL	1	

MAINTAINING CLIMBING TURTLE EXCLUSION FENCE

CATEGORY	STATION	TO	STATION	LOCATION	999.2105.S.01 LF	REMARKS
PROJECT 9180-17-71						
0010	197+00	-	202+25	STH 22, RT	690	C-58-22
0010	197+50	-	202+25	STH 22, LT	574	C-58-22
0010	219+50	-	223+50	STH 22, LT	513	C-5774
0010	220+00	-	223+25	STH 22, RT	390	C-5774
0010	234+00	-	238+00	STH 22, LT	473	C-5775
0010	234+00	-	237+75	STH 22, RT	451	C-5775
0010	268+75	-	285+15	STH 22, LT	1,772	C-5777 / AROUND LAKE
0010	271+05	-	272+20	STH 22, RT	240	C-5777
0010	292+85	-	297+75	STH 22, RT	668	C-58-27
0010	293+00	-	297+40	STH 22, LT	518	C-58-27
0010	304+25	-	307+25	STH 22, LT	415	C-5779
0010	304+50	-	307+30	STH 22, RT	414	C5779
0010	312+00	-	333+70	STH 22, LT	1,621	CTH R
0010	312+00	-	333+70	STH 22, RT	1,638	CTH R
0010				UNDISTRIBUTED	2,603	
				TOTAL 0010	12,980	
0030	159+10	-	170+70	STH 22, LT	1,268	RESORT RD
0030	159+10	-	170+70	STH 22, RT	1,488	RESORT RD
0030				UNDISTRIBUTED	694	
				TOTAL 0030	3,450	
				9180-17-71 TOTAL	16,430	
PROJECT 9180-17-72						
0010	376+75	-	384+75	STH 22, LT	944	C-5783
0010	379+00	-	380+50	STH 22, RT	226	C-5783
0010	401+00	-	404+50	STH 22, RT	413	C-5786
0010	401+25	-	404+00	STH 22, LT	338	C-5786
0010	424+00	-	427+00	STH 22, RT	363	C-5787
0010	424+00	-	426+50	STH 22, LT	308	C-5787
0010	441+75	-	445+00	STH 22, LT	387	C-5788
0010	442+00	-	444+85	STH 22, RT	339	C-5788
0010	450+00	-	453+15	STH 22, LT	375	C-5790
0010	450+25	-	453+00	STH 22, RT	346	C-5790
0010	457+25	-	465+00	STH 22, RT	865	C-5791
0010	457+75	-	461+00	STH 22, LT	399	C-5791
0010	494+75	-	498+75	STH 22, LT	508	C-5793
0010	495+00	-	498+70	STH 22, RT	426	C5793
0010	517+75	-	521+30	STH 22, RT	422	C-5798
0010	518+10	-	521+00	STH 22, LT	365	C-5798
0010	539+00	-	543+90	STH 22, RT	540	B-58-116
0010	541+50	-	543+35	STH 22, LT	301	B-58-116
0010	546+30	-	556+25	STH 22, LT	1,064	B-58-116
0010	546+85	-	556+25	STH 22, RT	1,012	B-58-116
0010	569+75	-	575+00	STH 22, RT	599	C-5801
0010	569+75	-	574+70	STH 22, LT	606	C-5801
0010	575+75	-	579+25	STH 22, RT	407	C-5802
0010	575+75	-	579+00	STH 22, LT	339	C-5802
0010	583+75	-	592+00	STH 22, RT	953	C-7482
0010	588+00	-	592+00	STH 22, LT	488	C-7482
0010				UNDISTRIBUTED	3,337	
				9180-17-72 TOTAL	16,670	
				PROJECT TOTAL	33,100	

PUBLIC LAND REFERENCE MONUMENT VERIFY AND RESET

CATEGORY	STATION	LOCATION	680.0100 EACH
PROJECT 9180-17-71			
0010	25+00	STH 22	1
0010	247+30	STH 22	1
		9180-17-71 TOTAL	2
PROJECT 9180-17-72			
0010	368+50	STH 22	1
0010	395+50	STH 22	1
0010	423+42	STH 22	1
0010	448+50	STH 22	1
		9180-17-72 TOTAL	4
		PROJECT TOTAL	6

PROTECTIVE THERMOPLASTIC COATING AT SNOWMOBIL CROSSING

CATEGORY	STATION	LOCATION	SPV.0180.01 SY
PROJECT 9180-17-71			
0010	49+63	STH 22	133
0010	285+25	STH 22	52
		9180-17-71 TOTAL	185
PROJECT 9180-17-72			
0010	489+00	STH 22	55
0010	566+50	STH 22	55
0010	597+25	STH 22	55
0010	618+00	STH 22	55
		9180-17-72 TOTAL	220
		PROJECT TOTAL	405

POLYJACKING BRIDGE APPROACHES B-58-0116

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.02 EACH	REMARKS
PROJECT 9180-17-72						
0010	543+42	-	546+76	STH 22	1	B-58-0116
				PROJECT TOTAL	1	

STABILIZED BASE RECLAMATION

CATEGORY	STATION	TO	STATION	LOCATION	305.0500 SHAPING SHOULDERS STA	SPV.0035.01 BASE REPAIR FOR BASE STABILIZATION PROCESS CY	SPV.0180.02 STABILIZED BASE RECLAMATION SY	SPV.0195.01 ASPHALT STABILIZING AGENT FOR BASE TON
PROJECT 9180-17-72								
0010	592+95	-	633+50	STH 22	21	-	14,160	220
				UNDISTRIBUTED	-	200	-	-
				PROJECT TOTAL	21	200	14,160	220

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
9180-17-21
SHAWANO - GILLETT
CTH BE TO OCONTO COUNTY LINE
STH 22
SHAWANO COUNTY



CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING — TO BE REMOVED
BRIDGE — CULVERT

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED)

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)

PARCEL NUMBER 25 — UTILITY NUMBER 40
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

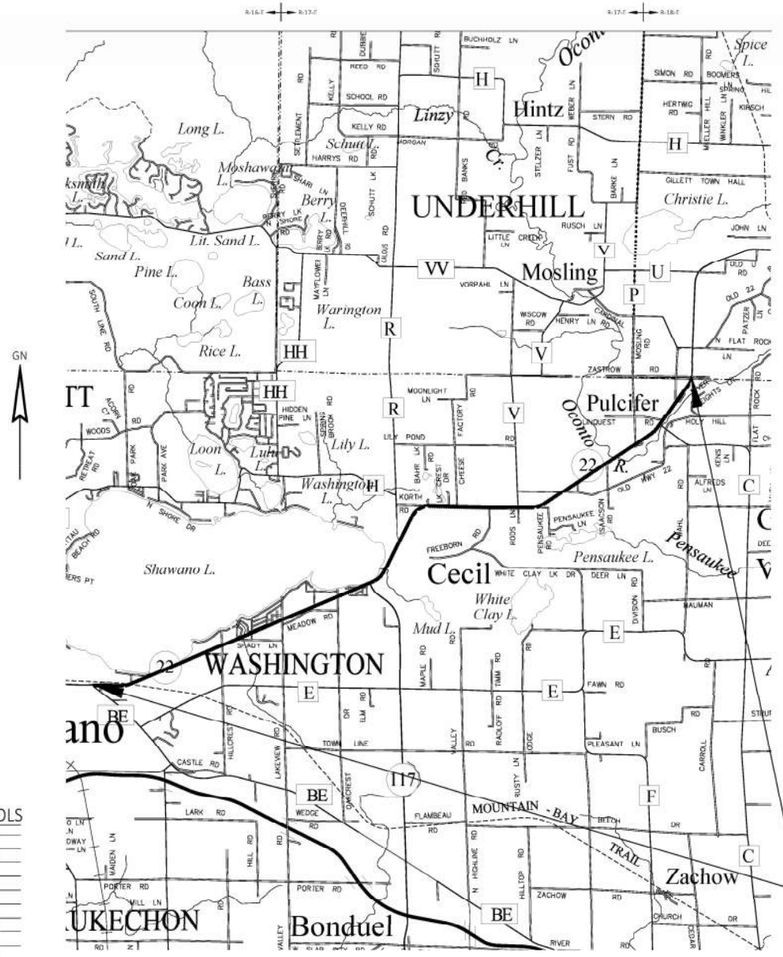
ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT OF WAY	R/W
COUNTY	CO	SECTION	SEC
COUNTY TRUNK HIGHWAY	CTH	SEPTIC VENT	SEPV
DISTANCE	DIST	SQUARE FEET	SF
CORNER	COR	STATE TRUNK HIGHWAY	STH
DOCUMENT NUMBER	DOC	STATION	STA
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ /DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
ELECTRIC TOWER	☒



THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 9180-17-21.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), SHAWANO COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

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

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.

PROJECT NUMBER 9180-17-21 - 4. 01
SHEET 2 OF 2

FILE NAME : I:\45\450624 STH 22\C3D\RW\91801721_0400.DWG
LAYOUT NAME: 0400
PLOT DATE : 10/15/2024 11:25 AM PLOT BY : AYRES ASSOCIATES PLOT NAME :
9180-17-21-4.01

TRANSPORTATION PROJECT PLAT NO: 9180-17-21 - 4.01

THAT PART OF THE LOT 1 OF CERTIFIED SURVEY MAP NUMBER 846 AS RECORDED IN VOLUME 3 OF CERTIFIED SURVEY MAPS ON PAGE 191 AS DOCUMENT NUMBER 421176 BEING LOCATED IN THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER AND THAT PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER, ALL IN SECTION 25, TOWNSHIP 27 NORTH, RANGE 16 EAST, TOWN OF WASHINGTON, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER SHAWANO - GILLETT, CTH BE TO OCONTO COUNTY LINE, STH 22, SHAWANO 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.

CALCULATED POSITION FROM SECTION SUMMARY
M.J. NORDIN
10/29/2007
Y = 277059.648
X = 889056.163

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTERESTS REQUIRED	R/W (SF) FEE	EXISTING	TOTAL	TLE
1	BRANDON S. AND KRISTA L. DAVIS	FEE & TLE	1295	------	1295	579
2	ROGER J. PERRAULT TRUST	FEE	194	------	194	------

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO *THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.*

PURPOSE OF ALL THE TLES ARE FOR GRADING, UNLESS NOTED.

Doc No: **785724**
Recorded on
10/17/2024 8:22 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO COUNTY
Fee Amount: $25.00

The above recording information verifies this document has been electronically recorded and returned

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-17-21-4.01
SHEET 1 OF 2

R/W STATION & OFFSET TABLE		
POINT	STATION	OFFSET
100	166+76.87	60.04' LT
101	166+93.73	60.05' LT
102	180+95.42	60.10' LT
103	180+71.91	0.00'
104	180+48.48	59.90' RT
105	166+55.00	59.96' RT
106	166+30.24	91.31' RT
107	165+91.81	188.58' RT
108	165+79.46	183.70' RT
109	165+45.77	170.40' RT

R/W STATION & OFFSET TABLE		
POINT	STATION	OFFSET
110	165+65.00	85.00' RT
111	165+50.00	59.92' RT
112	152+83.00	59.45' RT
113	152+09.63	59.43' RT
114	152+33.26	0.00'
115	152+57.34	60.56' LT
116	156+24.91	60.42' LT
117	162+82.92	60.18' LT
118	166+40.30	60.05' LT

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T150	165+41.08	168.50' RT
T151	165+59.68	85.85' RT
T152	165+44.17	59.92' RT

FOUND MONUMENT TABLE			
POINT	Y	X	DESCRIPTION
2542	276206.997	888733.333	1" IRON PIPE
2565	276144.903	888584.335	1" IRON PIPE
5307	276299.972	888956.897	1" IRON PIPE
5308	276684.128	889083.536	1" IRON PIPE
5523	276775.813	889028.425	1" IRON PIPE
5524	276053.793	889036.555	1" IRON PIPE
5525	276036.105	889036.774	1" IRON PIPE

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
100-101	N67°19'20"E	16.86'
101-102	N67°19'20"E	1401.70'
102-103	S01°18'32"E	64.54'
103-104	S01°18'32"E	64.32'
104-105	S67°19'20"W	1393.48'
105-106	S15°37'38"W	39.95'
106-107	S01°07'11"E	104.59'
107-108	S88°52'49"W	13.28'
108-109	S88°52'49"W	36.22'
109-110	N09°59'11"W	87.53'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
110-111	N53°33'26"W	29.22'
111-112	S67°20'44"W	1267.00'
112-113	S67°20'44"W	73.38'
113-114	N00°59'27"W	63.95'
114-115	N00°59'27"W	65.17'
115-116	N67°20'44"E	367.57'
116-117	N67°20'44"E	658.01'
117-118	N67°20'44"E	357.38'
118-100	N67°19'49"E	36.57'

NOTES:

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

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
STH 22: PREVIOUS PROJECT F 039-2(15)
RESORT RD: CSM 846, CSM 553, PREVIOUS PROJECT F 039-2(15)
SHADY LN: CSM 3609, CSM 3630, CSM 553
LABUTZKE DR: LABUTZKE'S CHANNEL ACRES
W CHANNEL DR: LABUTZKE'S CHANNEL ACRES
E CHANNEL DR: LABUTZKE'S CHANNEL ACRES
FRONTAGE RD: SECOND ADDITION TO KAM-BERG ACRES

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

FOUND MONUMENT INFORMATION SHOWN REPRESENTS TYPE AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER.

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

(100) WE ENERGIES - ELECTRIC DOC. NO. 767553- PARCEL 1

(101) WE ENERGIES - GAS DOC. NO. 328256- PARCEL 1

UTILITY INTERESTS REQUIRED

UTILITY NO.	OWNER(S)	INTEREST REQUIRED
100	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
101	WE ENERGIES - GAS	RELEASE OF RIGHTS

CALCULATED POSITION FROM SECTION SUMMARY
M.J. NORDIN
10/29/2007
Y = 274413.760
X = 889097.354

SCALE, FEET

LOCATION SKETCH NOT TO SCALE

I, TRAVIS M. GARDEBRECHT, 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 WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Travis Gardebrecht DATE: 10/15/2024

PRINT NAME: TRAVIS M. GARDEBRECHT

REGISTRATION NUMBER: S-4004

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION - NORTH CENTRAL REGION.

SIGNATURE: Brent L Stella DATE: 10/16/2024

PRINT NAME: BRENT STELLA

FILE NAME : I:\45\450624 STH 22\C3D\RW\91801721_0401.DWG
APPRAISAL PLAT DATE : OCTOBER 15, 2024
PLOT DATE : 10/15/2024 10:53 AM PLOT BY : GARDEBRECHT, TRAVIS PLOT NAME :

9180-17-21-4.01

TRANSPORTATION PROJECT PLAT NO: 9180-17-21-4.02

THAT PART OF GOVERNMENT LOT 3 OF SECTION 6, TOWNSHIP 27 NORTH, RANGE 18 EAST, TOWN OF GREEN VALLEY, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER SHAWANO - GILLETT, CTH BE TO OCONTO COUNTY LINE, STH 22, SHAWANO 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.

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTERESTS REQUIRED	FEE R/W (SF) REQUIRED			TLE (SF)
			NEW	EXISTING	TOTAL	
3	STEVEN R. ZENK AND PEGGY L ZENK IRREVOCABLE TRUST	FEE & TLE	5020	------	5020	649

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

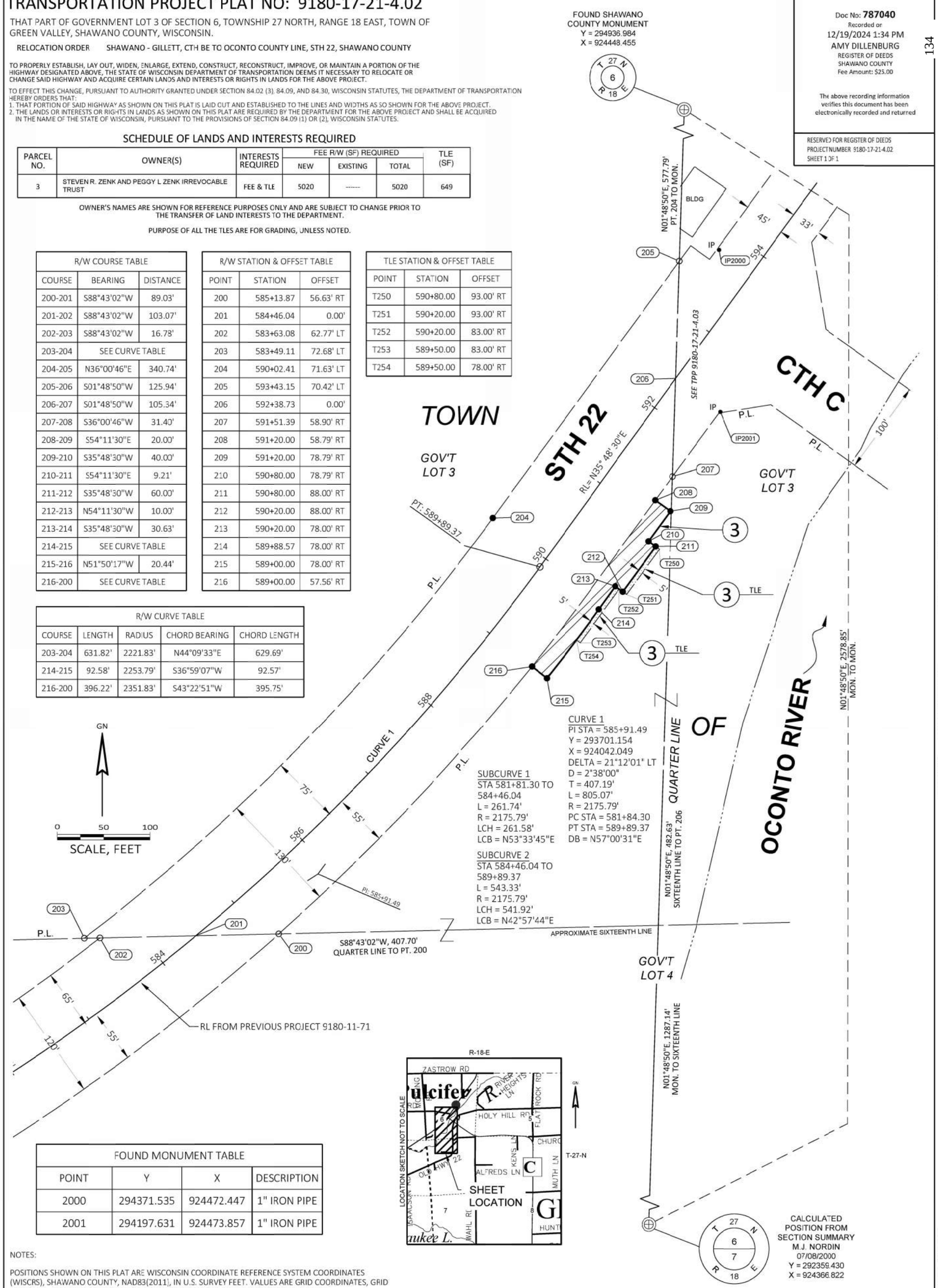
PURPOSE OF ALL THE TLES ARE FOR GRADING, UNLESS NOTED.

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
200-201	S88°43'02"W	89.03'
201-202	S88°43'02"W	103.07'
202-203	S88°43'02"W	16.78'
203-204	SEE CURVE TABLE	
204-205	N36°00'46"E	340.74'
205-206	S01°48'50"W	125.94'
206-207	S01°48'50"W	105.34'
207-208	S36°00'46"W	31.40'
208-209	S54°11'30"E	20.00'
209-210	S35°48'30"W	40.00'
210-211	S54°11'30"E	9.21'
211-212	S35°48'30"W	60.00'
212-213	N54°11'30"W	10.00'
213-214	S35°48'30"W	30.63'
214-215	SEE CURVE TABLE	
215-216	N51°50'17"W	20.44'
216-200	SEE CURVE TABLE	

R/W STATION & OFFSET TABLE		
POINT	STATION	OFFSET
200	585+13.87	56.63' RT
201	584+46.04	0.00'
202	583+63.08	62.77' LT
203	583+49.11	72.68' LT
204	590+02.41	71.63' LT
205	593+43.15	70.42' LT
206	592+38.73	0.00'
207	591+51.39	58.90' RT
208	591+20.00	58.79' RT
209	591+20.00	78.79' RT
210	590+80.00	78.79' RT
211	590+80.00	88.00' RT
212	590+20.00	88.00' RT
213	590+20.00	78.00' RT
214	589+88.57	78.00' RT
215	589+00.00	78.00' RT
216	589+00.00	57.56' RT

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T250	590+80.00	93.00' RT
T251	590+20.00	93.00' RT
T252	590+20.00	83.00' RT
T253	589+50.00	83.00' RT
T254	589+50.00	78.00' RT

R/W CURVE TABLE				
COURSE	LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
203-204	631.82'	2221.83'	N44°09'33"E	629.69'
214-215	92.58'	2253.79'	S36°59'07"W	92.57'
216-200	396.22'	2351.83'	S43°22'51"W	395.75'



FOUND MONUMENT TABLE			
POINT	Y	X	DESCRIPTION
2000	294371.535	924472.447	1" IRON PIPE
2001	294197.631	924473.857	1" IRON PIPE

NOTES:

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

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
STH 22: PREVIOUS PROJECT 9180-11-71
CTH C: PREVIOUS PROJECT 9180-11-71

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

FOUND MONUMENT INFORMATION SHOWN REPRESENTS TYPE AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 785724.

GREEN VALLEY

AYRES

I, TRAVIS M. GARDEBRECHT, 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 WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TRAVIS M. GARDEBRECHT S-4004 ASHWAUBENON, WI LAND SURVEYOR

SIGNATURE: Travis Gardebrecht DATE: 12/16/2024

PRINT NAME: TRAVIS M. GARDEBRECHT

REGISTRATION NUMBER: S-4004

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION - NORTH CENTRAL REGION.

SIGNATURE: Craig D. Smits DATE: 12/19/2024

PRINT NAME: CRAIG D. SMITS

Doc No: **787040**
Recorded on
12/19/2024 1:34 PM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO COUNTY
Fee Amount: $25.00

The above recording information verifies this document has been electronically recorded and returned

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-17-21-4.02
SHEET 1 OF 1

134

9180-17-21-4.02

PLOT SCALE : 1:50
PLOT NAME :
PLOT BY : AYRES ASSOCIATES
PLOT DATE : 12/18/2024 12:05 PM
FILE NAME : I:\45\450624 STH 22\C3D\RW\918017 21_0402.DWG
APPRAISAL PLAT DATE : 12/16/2024

TRANSPORTATION PROJECT PLAT NO: 9180-17-21-4.03

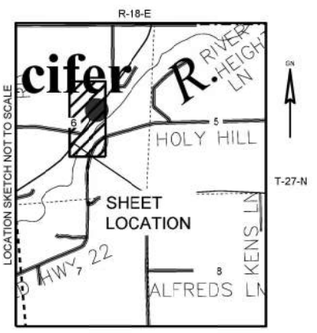
THAT PART OF LOT 5 BLOCK 1 OF THE ORIGINAL PLAT VILLAGE OF PULCIFER BEING LOCATED IN GOVERNMENT LOT 2, AND THAT PART OF GOVERNMENT LOT 3, ALL IN SECTION 6, TOWNSHIP 27 NORTH, RANGE 18 EAST, TOWN OF GREEN VALLEY, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER SHAWANO - GILLETT, CTH BE TO OCONTO COUNTY LINE, STH 22, SHAWANO 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.



Doc No: **787041**
Recorded on
12/19/2024 1:36 PM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO COUNTY
Fee Amount: $25.00

The above recording information verifies this document has been electronically recorded and returned

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-17-21-4.03
SHEET 1 OF 1

135

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NO.	OWNER(S)	INTERESTS REQUIRED	FEE R/W (SF) REQUIRED			TLE (SF)
			NEW	EXISTING	TOTAL	
4	STEVE BAHR	TLE	------	------	------	76
6	JERRY A. AND JAYNE M. PETERSON	FEE & TLE	93	------	93	232

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PURPOSE OF ALL THE TLES ARE FOR GRADING, UNLESS NOTED.

NW - FRAC NE

APPROXIMATE SIXTEENTH LNE

SIXTEENTH LINE

GOV'T LOT 2

R/L = N36° 52' 23"E

82'

PI STA= 616+80.95
Y= 296209.634
X= 925861.345
DELTA=00°50'00" RT

RIVER LN

CSM 1410

PLAT OF SURVEY 9001132

GOV'T LOT 2

TOWN OF

GOV'T LOT 2

STH 22

R/L = N36° 10' 23"E

ORIGINAL PLAT VILLAGE OF PULCIFER

BLOCK 1

FOUND SHAWANO COUNTY MONUMENT
Y = 294936.984
X = 924448.455

QUARTER LINE

S89°24'29"W, 39.98' RL TO PT. 307.

PLAT OF SURVEY 8828

S89°24'29"W, 450.64' PT. 307 TO MON.

PLAT OF SURVEY 13133

S89°24'29"W, 42.23' PT. 317 TO RL.

S89°24'29"W, 2274.66' QTR CORNER TO PT. 317

S89°24'29"W, 2807.51' MON. TO MON.

FOUND MAG NAIL
Y = 294965.995
X = 927255.813

FEE

TLE

PLAT OF SURVEY 9005596

LINQUEST ROAD

N01°48'50"E, 577.79' PT. 302 TO SEC. CORNER

N01°48'50"E, 2578.85' MON. TO MON.

GOV'T LOT 3

ORIGINAL PLAT VILLAGE OF PULCIFER BLOCK 2

OCONTO RIVER

FD IP 1.77' E 2.40' N

PI STA= 597+60.20
Y= 294656.505
X= 924731.284
DELTA=00°13'53" RT

RL FROM PREVIOUS PROJECT 9180-11-71

CTH C

FD IP 1.20' E 1.49' N

SEE TPP 9180-17-21-4.02

N01°48'50"E, 1769.77' QTR. COR. TO PT. 300

CALCULATED POSITION FROM SECTION SUMMARY
M.J. NORDIN
07/08/2000
Y = 292359.430
X = 924366.822

GREEN VALLEY

GN

0 100 200
SCALE, FEET

R/W STATION & OFFSET TABLE		
POINT	STATION	OFFSET
300	591+51.39	58.90' RT
301	592+38.73	0.00'
302	593+43.15	70.42' LT
303	593+63.62	70.35' LT
304	593+63.53	45.35' LT
305	596+86.89	44.19' LT
306	597+66.04	31.93' LT
307	600+89.48	32.09' LT
308	602+93.70	32.18' LT
309	602+93.70	34.18' LT
310	603+40.00	34.20' LT
311	603+40.00	32.20' LT
312	617+06.66	33.23' LT
313	617+20.34	43.33' LT
314	617+53.63	0.00'
315	617+77.99	31.71' RT
316	617+28.01	32.46' RT
317	601+38.54	33.89' RT
318	597+80.69	34.06' RT
319	597+14.41	33.91' RT
320	594+42.61	32.94' RT
321	592+35.61	59.20' RT

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
300-301	N01°48'50"E	105.34'
301-302	N01°48'50"E	125.94'
302-303	N36°00'46"E	20.47'
303-304	S53°59'14"E	25.00'
304-305	N36°00'46"E	323.36'
305-306	N44°36'55"E	80.23'
306-307	N36°00'46"E	297.75'
307-308	N36°00'46"E	229.91'
308-309	N53°59'14"W	2.00'
309-310	N36°00'46"E	46.30'
310-311	S53°57'37"E	2.00'
311-312	N36°00'46"E	1367.14'
312-313	N00°24'26"E	17.01'
313-314	N89°20'20"E	54.65'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
314-315	N89°20'20"E	39.99'
315-316	S36°00'46"W	1437.49'
316-317	S36°00'46"W	226.29'
317-318	S36°00'46"W	333.05'
318-319	S36°00'46"W	66.14'
319-320	S36°00'46"W	271.80'
320-321	S28°34'41"W	208.66'
321-300	S36°00'46"W	84.23'

EXISTING IRON PIPES POINT TABLE			
POINT NUMBER	Y COORDS	X COORDS	DESCRIPTION
3000	294371.535	924472.447	1" IRON PIPE
3001	294197.631	924473.857	1" IRON PIPE
3002	294856.626	924837.343	1" IRON PIPE
3003	294915.727	924880.088	1" IRON PIPE
3004	295045.518	924974.431	1" IRON PIPE
3005	295161.218	925058.261	1" IRON PIPE
3006	295220.825	925182.860	2" IRON PIPE
3007	295112.221	925103.896	1" IRON PIPE
3008	295036.622	925048.558	1" IRON PIPE
3009	294654.804	924773.282	1" IRON PIPE

TLE STATION & OFFSET TABLE		
POINT	STATION	OFFSET
T350	597+63.60	36.93' LT
T351	597+80.00	36.94' LT
T352	597+80.00	31.94' LT
T353	602+93.69	39.18' LT
T354	603+40.00	39.20' LT

NOTES:

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

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
STH 22: PREVIOUS PROJECT 9180-11-71 AND PLAT OF SURVEYS 9005596, 13133, AND 9001132
CTH C: PREVIOUS PROJECT 9180-11-71
LINQUEST RD: PLAT OF SURVEY 9005596
RIVER LN: CSM 1410

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

FOUND MONUMENT INFORMATION SHOWN REPRESENTS TYPE AND LOCATION OF EXISTING MONUMENTS WITHOUT OPINION AS TO THEIR VALIDITY AND USE AS A PROPERTY CORNER.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 785724.

AYRES

I, TRAVIS M. GARDEBRECHT, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE W SCONSIN STATUTES AND UNDER THE DIRECTION OF WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TRAVIS M. GARDEBRECHT S-4004 ASHWAUBENON, WI LAND SURVEYOR

SIGNATURE: Travis Gardebrecht DATE: 12/16/2024

PRINT NAME: TRAVIS M. GARDEBRECHT

REGISTRATION NUMBER: S-4004

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION - NORTH CENTRAL REGION.

SIGNATURE: Craig D. Smits DATE: 12/19/2024

PRINT NAME: CRAIG D. SMITS

9180-17-21-4.03

PLOT SCALE : 1:100

PLOT NAME :

PLOT BY : AYRES ASSOCIATES

PLOT DATE : 12/18/2024 12:05 PM

FILE NAME : I:\45\450624 STH 22\C3D\RW\918017 21_0403.DWG

APPRAISAL PLAT DATE : 12/16/2024

LEGEND

XXXXXX SAW CUTS

EXISTING R/W

CP #900
IRON PIPE W/CAP
STA 157+23.74, 21.29' LT
Y = 276072.270
X = 888200.744

BURIED FIBER OPTIC CABLE
(APPROXIMATE LOCATION)

BM #201

SLOPE
INTERCEPTS

STH 22

N67°19'28"E

120'

12'

BURIED GAS LINE
(APPROXIMATE LOCATION)

CAUTION

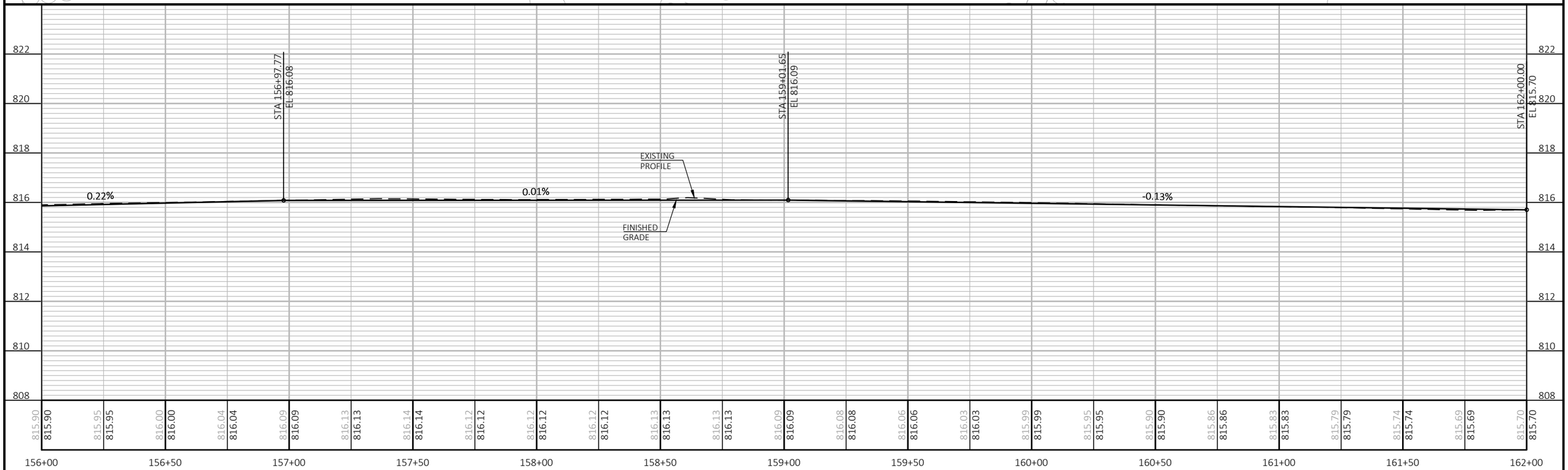
WELL

SEPTIC

GUY

POST

BENCH MARKS			
NO.	STATION	ELEV.	DESCRIPTION
201	159+43	810.06	NAIL - 58' LT

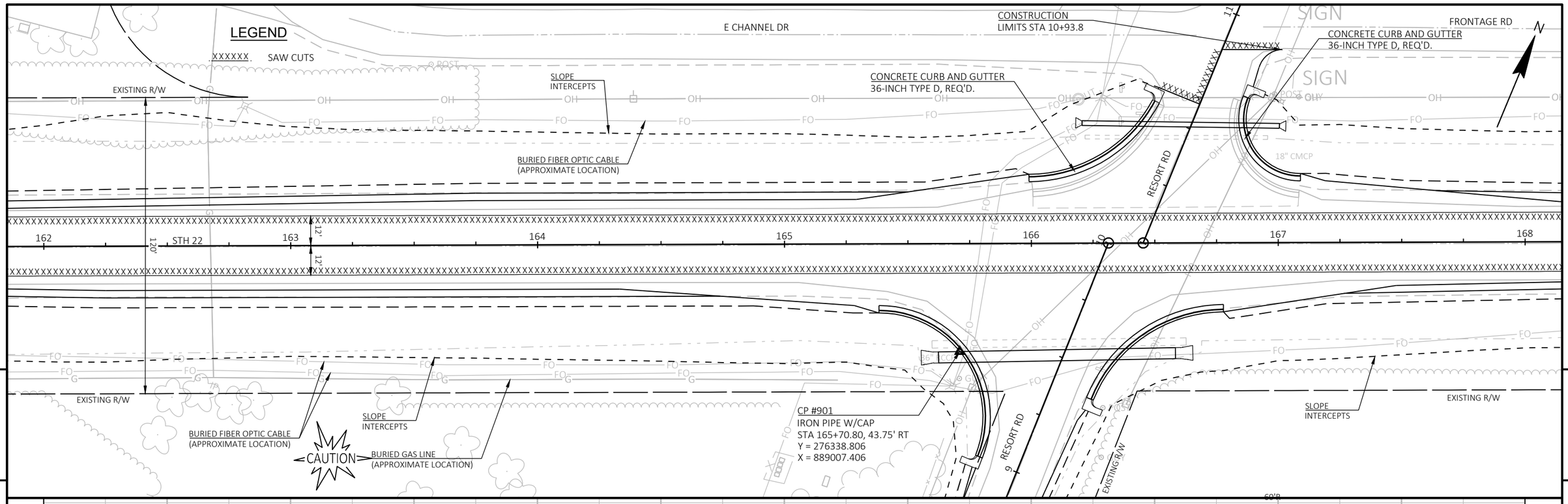


PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN AND PROFILE: STH 22	SHEET 136	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050101-pp

PLOT DATE : 5/16/2025 11:22 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

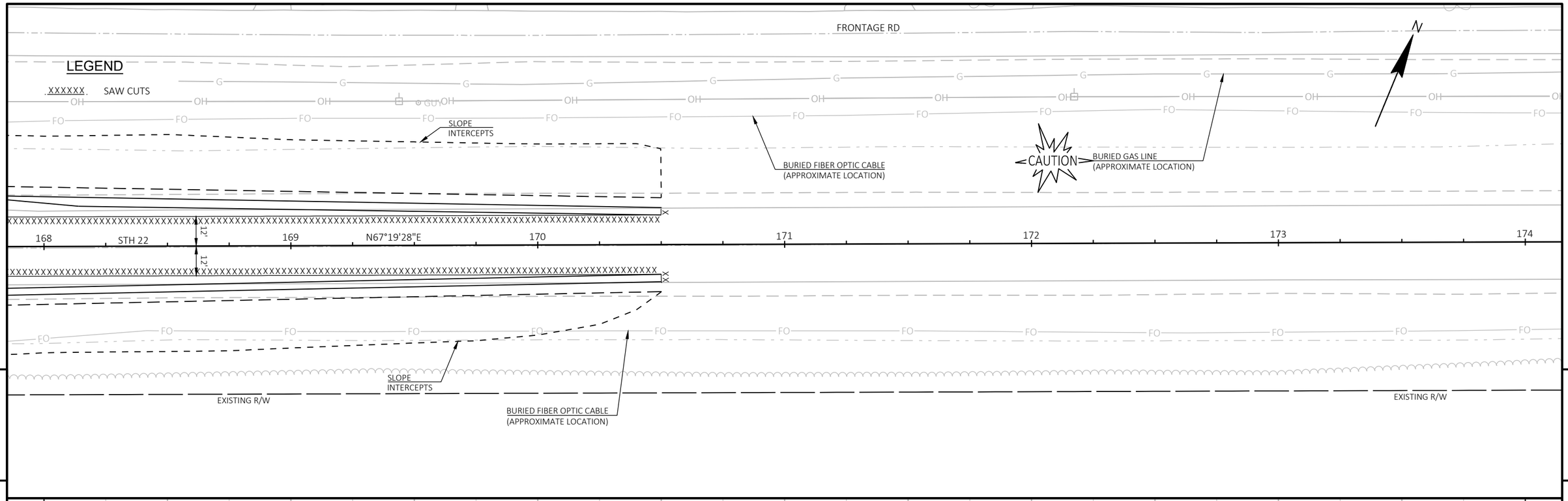


PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN AND PROFILE: STH 22	SHEET 137	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050102-pp

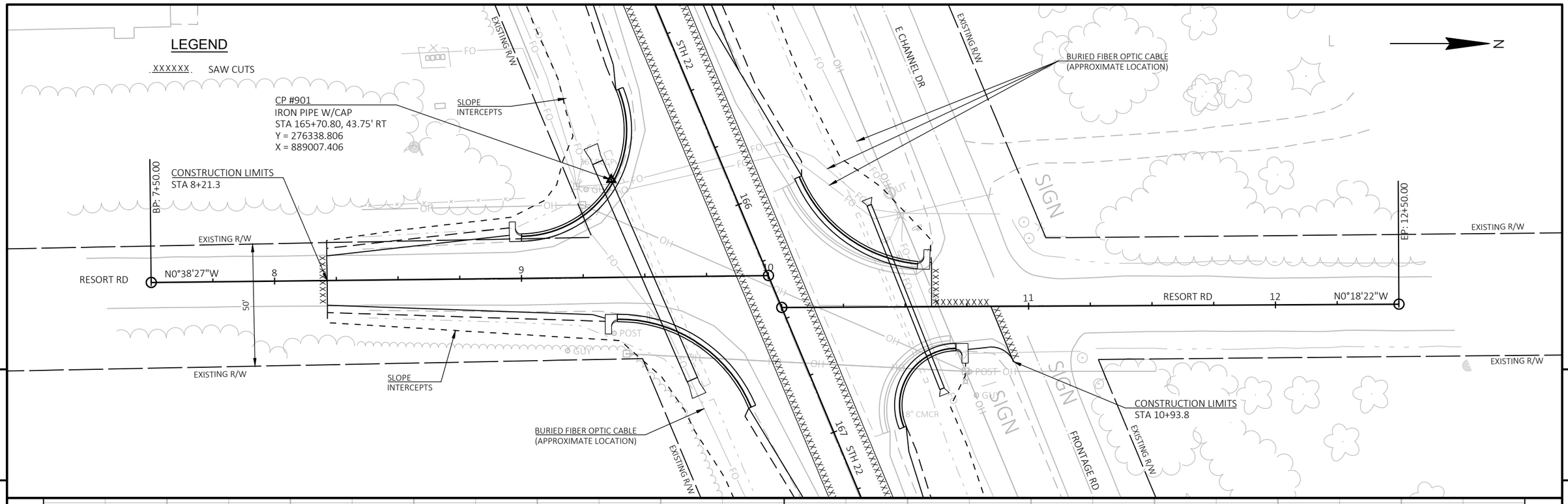
PLOT DATE : 5/16/2025 11:23 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

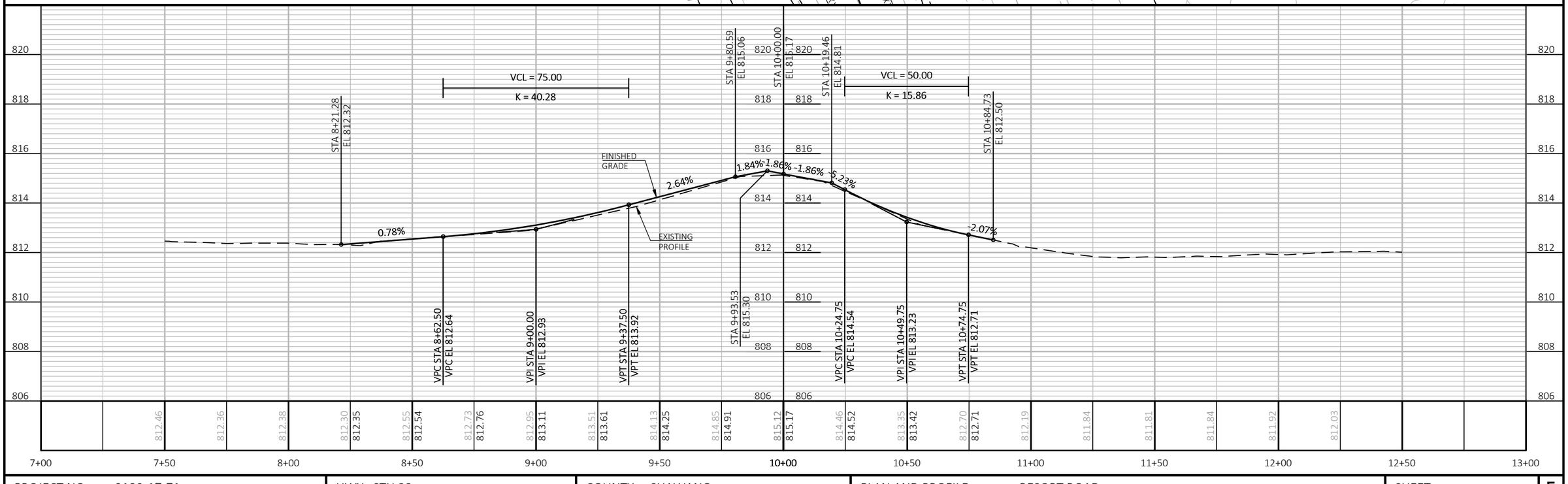
WISDOT/CADDS SHEET 44



PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN AND PROFILE: STH 22	SHEET 138	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050103-pp
PLOT DATE : 5/16/2025 11:23 AM
PLOT BY : GARNICA, BRANDON
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN AND PROFILE: RESORT ROAD	SHEET 139	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050104-pp

PLOT DATE : 5/16/2025 11:24 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

XXXXXX SAW CUTS

CAUTION BURIED GAS LINE (APPROXIMATE LOCATION)

BURIED FIBER OPTIC CABLE (APPROXIMATE LOCATION)

SLOPE INTERCEPTS

CONSTRUCTION LIMITS STA 9+45.8

CONSTRUCTION LIMITS STA 10+68.1

PT: 9+55.74

PC: 10+09.60

N27°14'47"E

12'

12'

N MEYER ST

W BAEHR ST

N WARRINGTON AVE

GOLF VIEW RD

STH 22

SLAB

30" CMCP

18" CMCP

EXISTING PROFILE

FINISHED GRADE

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN AND PROFILE: STH 22	SHEET 140	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050105-pp

PLOT DATE : 5/16/2025 11:24 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

N MEYER ST

CAUTION

BURIED GAS LINE
(APPROXIMATE LOCATION)

BURIED FIBER OPTIC CABLE
(APPROXIMATE LOCATION)

SLOPE
INTERCEPTS

BURIED TELEPHONE LINE
(APPROXIMATE LOCATION)

24" CMCP

317 | N27°14'47"E | 318 | STH 22 | 319 | 320 | 321 | 322 | 323

12'

12'

SLOPE
INTERCEPTS

30" RCCP

BURIED FIBER OPTIC CABLE
(APPROXIMATE LOCATION)

GOLF VIEW RD

SIGN

EXISTING R/W

BURIED GAS LINE
(APPROXIMATE LOCATION)

CAUTION

SLAB

POST

EXISTING R/W

LEGEND

XXXXXX SAW CUTS

822
820
818
816
814
812
810
808

FINISHED
GRADE

EXISTING
PROFILE

0.53%

| | | |

CONSTRUCTION LIMITS
STA 10+73.9
PC: 10+73.56

CTH R

EXISTING R/W

BURIED FIBER OPTIC CABLE
(APPROXIMATE LOCATION)

SLOPE
INTERCEPTS

LEGEND

XXXXXX SAW CUTS

N

EXISTING R/W

℄ BACK = 325+00.00
℄ AHEAD = 330+70.50

PI: 332+21.82

120'

12'
12'

STH 22

323 324 331 332 333 334

SLOPE
INTERCEPTS

EXISTING R/W

EXISTING R/W

BURIED FIBER OPTIC CABLE
(APPROXIMATE LOCATION)

BURIED GAS LINE
(APPROXIMATE LOCATION)

CAUTION

5

5

STA 330+83.93
EL 817.99

STA 334+03.04
EL 819.35

EXISTING
PROFILE

FINISHED
GRADE

0.43%

824 822 820 818 816 814 812 810

816.71 816.86 816.85 816.99 817.00 817.13 817.15 817.26 817.30 817.39 817.48 817.52 817.67 817.65 817.83 817.79 330+70.50 817.92 817.95 817.94 818.06 818.06 818.17 818.17 818.28 818.27 818.40 818.38 818.51 818.49 818.63 818.59 818.74 818.70 818.85 818.80 818.95 818.91 819.06 819.02 819.16 819.12 819.25 819.23 819.34 819.34 819.27 819.40 819.45

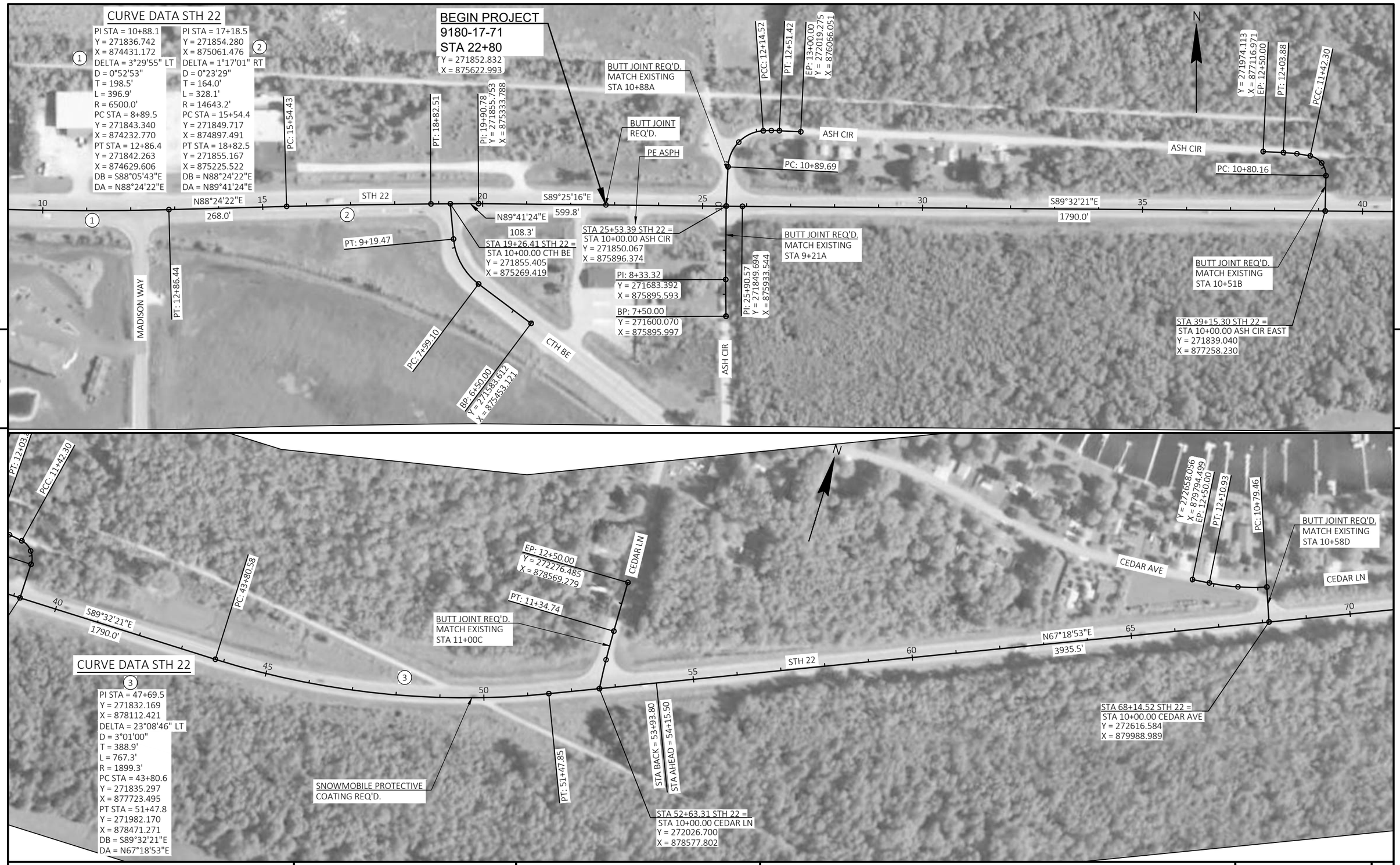
323+00 323+50 324+00 324+50 331+00 331+50 332+00 332+50 333+00 333+50 334+00 334+50 334+70

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	PLAN AND PROFILE: STH 22	SHEET 142	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050107-pp

PLOT DATE : 5/16/2025 11:25 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN SHEETS	SHEET 143	E

5

5

Y = 273121.252
X = 881000.579
EP: 12+50.00

PT: 12+01.01

PCC: 10+83.52

BUTT JOINT REQ'D.
MATCH EXISTING
STA 10+60E

PE ASPH

PE AGG

PE ASPH

PI: 91+05.06
Y = 273499.968
X = 882102.323

PE ASPH

PE ASPH

CEDAR LN

PC: 10+41.51

70

N67°18'53"E
3935.5'

75

80

85

STH 22

90

95

N67°17'24"E
1897.6'

100

PE AGG

PE AGG

STA 81+33.05 STH 22 =
STA 10+00.00 CEDAR LN
Y = 273125.095
X = 881205.509

N

PE ASPH

PE CONC

PE ASPH

PI: 110+02.62
Y = 274232.555
X = 883852.772

100

N67°17'24"E
1897.6'

105

STH 22

110

PC: 10+08.92

Y = 274569.974
X = 884375.541
PI: 11+13.51

PT: 10+64.34

BISCHOFF BAY LN

EP: 12+49.99
Y = 274705.751
X = 884366.580

BUTT JOINT REQ'D.
MATCH EXISTING
STA 10+42F

PC: 10+13.03

115

N67°18'00"E
1638.9'

120

125

PI: 126+41.49
Y = 274865.000
X = 885364.690

N67°21'27"E
1166.2'

130

PE AGG

N

PE ASPH

CP #902
IRON PIPE W/CAP
STA 104+11.65, 22.85' RT
Y = 273983.322
X = 883316.434

CP #903
IRON PIPE W/CAP
STA 111+99.90, 22.83' RT
Y = 274287.620
X = 884043.581

STA 115+89.53 STH 22 =
STA 10+00.00 BISCHOFF BAY LN
Y = 274459.043
X = 884394.213

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN SHEETS	SHEET 144	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050202-pn

PLOT DATE : 5/16/2025 11:26 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : ##########

5

5

EP: 12+50.00
Y = 275351.873
X = 885883.110

PE AGG

PI: 11+58.02
Y = 275268.292
X = 885921.510

DUSTY RD

BUTT JOINT REQ'D.
MATCH EXISTING
STA 11+00G

STA 133+18.12 STH 22 =
STA 10+00.00 DUSTY RD
Y = 275125.492
X = 885989.172

PI: 138+07.69
Y = 275313.967
X = 886441.006

SANDY DR

Y = 275565.816
X = 886436.454
EP: 12+50.00

PI: 12+03.92
Y = 275519.754
X = 886437.798

130

N67°21'27"E
1166.2'

135

STA 138+09.44 STH 22 =
STA 10+00.00 HILLCREST DR
Y = 275314.637
X = 886442.621

BP: 7+50.00
Y = 275064.674
X = 886446.942

HILLCREST DR

STA 138+12.96 STH 22 =
STA 10+00.00 SANDY DR
Y = 275315.996
X = 886445.863

BUTT JOINT REQ'D.
MATCH EXISTING
STA 8+96G

140

STH 22

145

N67°19'28"E
5686.1'

150

EP: 12+50.00
Y = 276124.220
X = 887778.565

LABUTZKE DR

BUTT JOINT REQ'D.
MATCH EXISTING
STA 10+81J

PI: 11+38.84
Y = 276013.084
X = 887780.494

STA 152+30.36 STH 22 =
STA 10+00.00 SHADY LN
Y = 275862.419
X = 887753.703

PT: 9+42.35

BUTT JOINT REQ'D.
MATCH EXISTING
STA 9+23I

PCC: 8+96.10

SHADY LN

PC: 8+18.98

BP: 7+50.00
Y = 275752.329
X = 887947.460

CP #900
IRON PIPE W/CAP
STA 157+23.74, 21.29' LT
Y = 276072.270
X = 888200.744

BM #200

STA 152+61.04 STH 22 =
STA 10+00.00 LABUTZKE DR
Y = 275874.249
X = 887782.016

155

BM #201

166

GUARDRAIL REPLACEMENT
(SEE PLAN DETAILS)

N

BENCH MARKS			
NO.	STATION	ELEV.	DESCRIPTION
200	156+18	814.48	TAG BOLT - 141' LT
201	159+43	810.06	NAIL - 58' LT

EP: 12+50.00
Y = 276657.854
X = 889057.862

RESORT RD

STA 166+31.21 STH 22 =
STA 10+00.00 RESORT RD SOUTH
Y = 276402.463
X = 889046.275

SAWCUT
REQ'D.

INTERSECTION IMPROVEMENTS
(SEE PLAN DETAILS)

BM #201

160

165

N67°19'28"E
5686.1'

170

STH 22

175

180

185

190

CP #901
IRON PIPE W/CAP
STA 165+70.80, 43.75' RT
Y = 276338.806
X = 889007.406

BP: 7+50.00
Y = 276152.475
X = 889049.071

STA 166+45.21 STH 22 =
STA 10+00.00 RESORT RD NORTH
Y = 276407.863
X = 889059.198

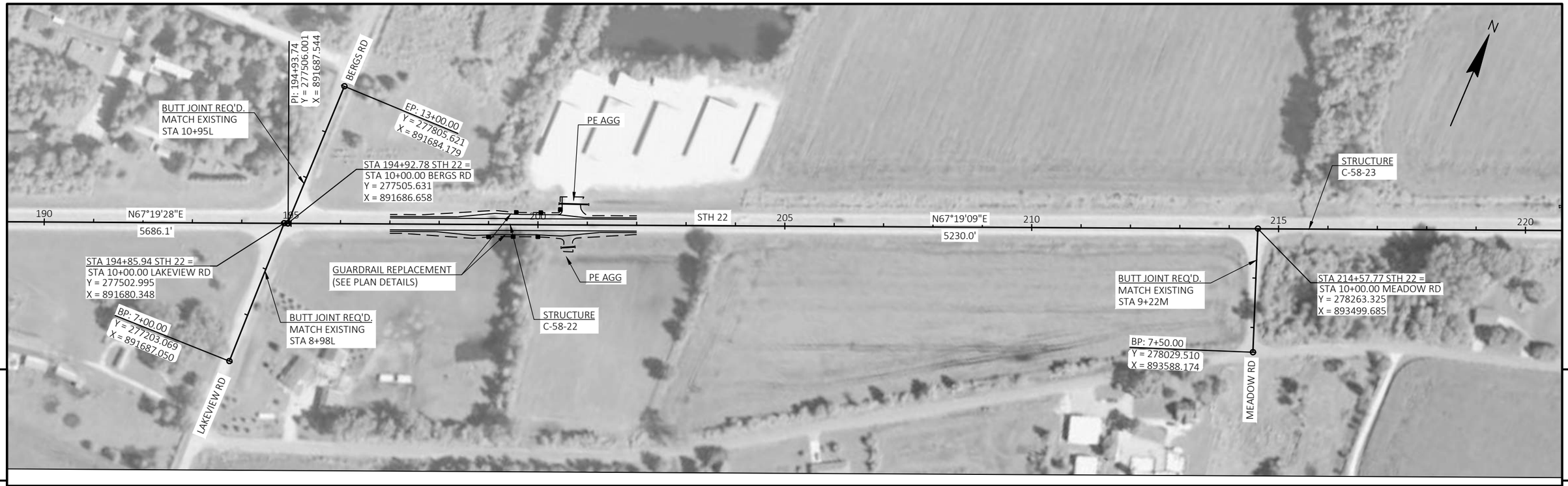
GUARDRAIL REPLACEMENT
(SEE PLAN DETAILS)

RESORT RD

SAWCUT
REQ'D.

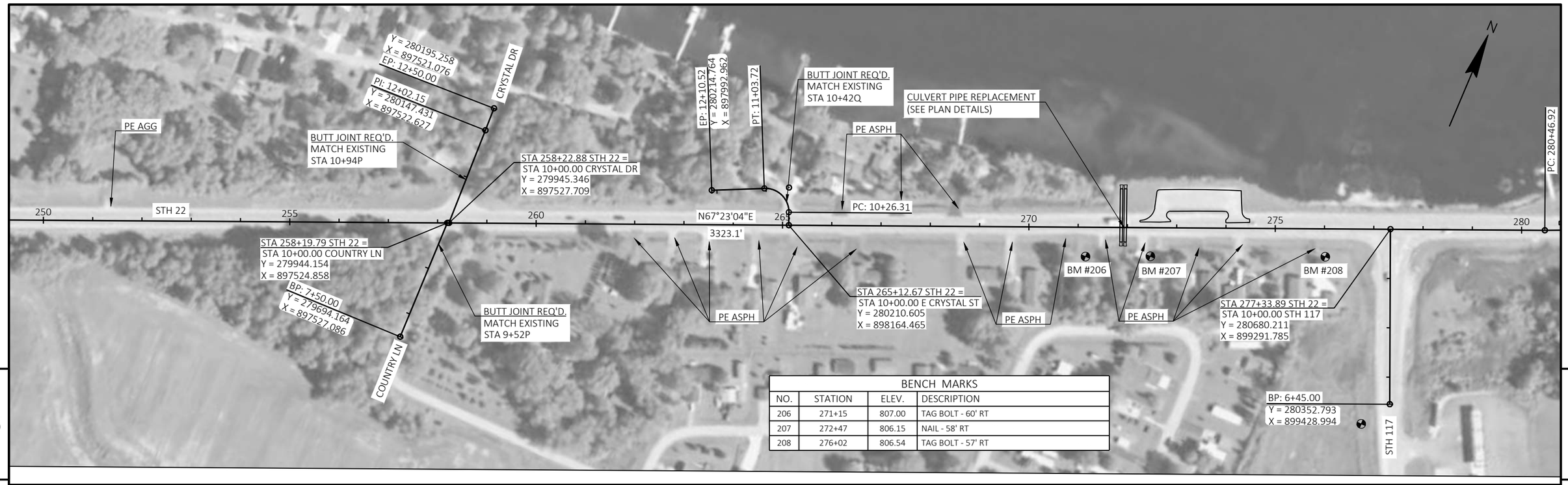
N

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN SHEETS	SHEET 145	E

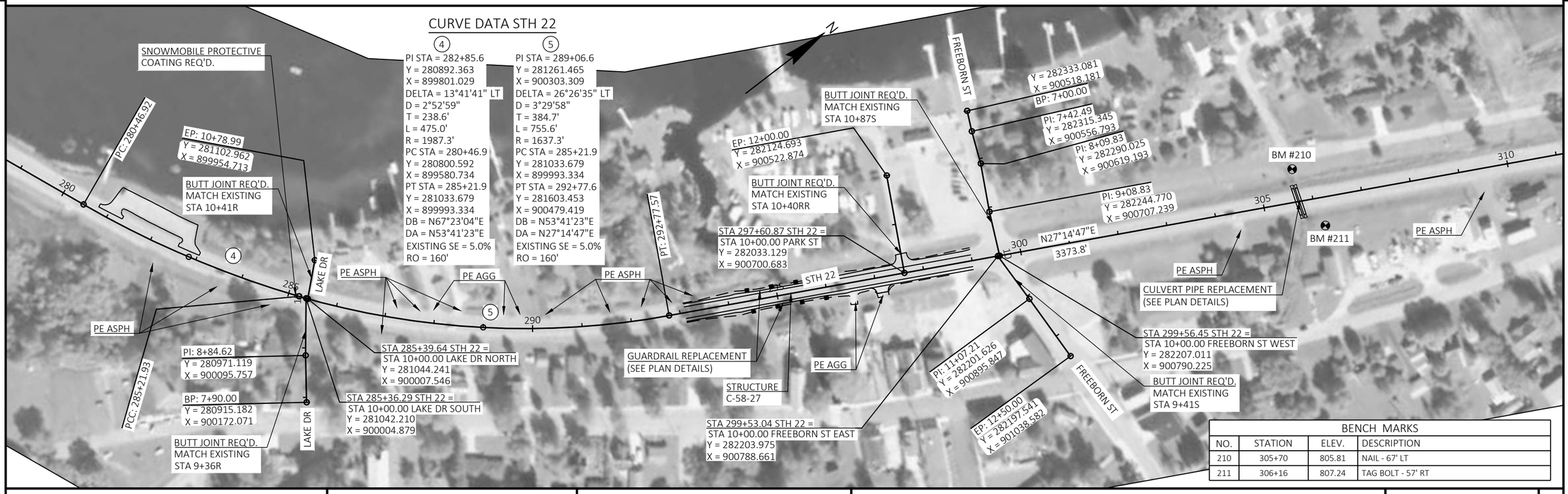


BENCH MARKS			
NO.	STATION	ELEV.	DESCRIPTION
202	221+61	814.28	NAIL - 58' LT
203	225+74	817.32	RD BOLT - 70' LT
204	237+98	813.99	NAIL - 57' LT
205	235+80	812.82	NAIL - 57' LT

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN SHEETS	SHEET 146	E



BENCH MARKS			
NO.	STATION	ELEV.	DESCRIPTION
206	271+15	807.00	TAG BOLT - 60' RT
207	272+47	806.15	NAIL - 58' RT
208	276+02	806.54	TAG BOLT - 57' RT



BENCH MARKS			
NO.	STATION	ELEV.	DESCRIPTION
210	305+70	805.81	NAIL - 67' LT
211	306+16	807.24	TAG BOLT - 57' RT

PROJECT NO: 9180-17-71	HWY: STH 22	COUNTY: SHAWANO	PLAN SHEETS	SHEET 147	E

BAEHR ST

BP: 7+00.00
Y = 283749.561
X = 901252.890

PC: 7+93.41

STA 315+89.17 STH 22 =
STA 10+00.00 BAEHR ST
Y = 283658.571
X = 901537.716

BUTT JOINT REQ'D.
MATCH EXISTING
STA 9+35T

BUTT JOINT REQ'D.
MATCH EXISTING
STA 10+84U

PCC: 12+82.18

NABOR RD

15

EP: 16+00.00
Y = 284864.583
X = 901677.079

PT: 14+77.21

LAKE DR

PC: 10+73.56

BEGIN PROJECT
9180-17-72
STA 333+39
Y = 284707.165
X = 902077.410

PE ASPH

PE AGG

MEYER ST

PT: 9+55.74

310

N27°14'47"E

3373.8'

315

320

STH 22

335

N27°07'19"E

2044.9'

340

345

PC: 10+09.60

WARRINGTON AVE

9T

INTERSECTION IMPROVEMENTS
(SEE PLAN DETAILS)

STA BACK = 325+00.00

STA AHEAD = 330+70.50

PI: 332+21.82
Y = 284602.874
X = 902023.992

PE ASPH

END PROJECT
9180-17-71
STA 333+39

EP: 15+00.00
Y = 283192.614
X = 901500.668

PT: 11+72.95

BUTT JOINT REQ'D.
MATCH EXISTING
STA 10+24T

STA 323+44.79 STH 22 =
STA 10+00.00 CTH R
Y = 284330.348
X = 901883.652

5

5

KORTH RD

PT: 12+18.85

EP: 13+00.00
Y = 287315.709
X = 903560.260

BUTT JOINT REQ'D.
MATCH EXISTING
STA 10+97V

PC: 352+66.76

360

6

STH 22

365

PE AGG

PT: 371+03.58

355

N27°07'19"E

2044.9'

350

345

370

S88°36'01"E

1721.0'

375

CURVE DATA STH 22

6

PI STA = 362+95.4
Y = 287338.465
X = 903425.183
DELTA = 64°16'40" RT
D = 3°29'58"
T = 1028.6'
L = 1836.8'
R = 1637.3'
PC STA = 352+66.8
Y = 286422.947
X = 902956.247
PT STA = 371+03.6
Y = 287313.338
X = 904453.503
DB = N27°07'19"E
DA = S88°36'01"E
EXISTING SE = 5.25%
RO = 160'

STA 364+53.39 STH 22 =
STA 10+00.00 KORTH RD
Y = 287201.431
X = 903817.337

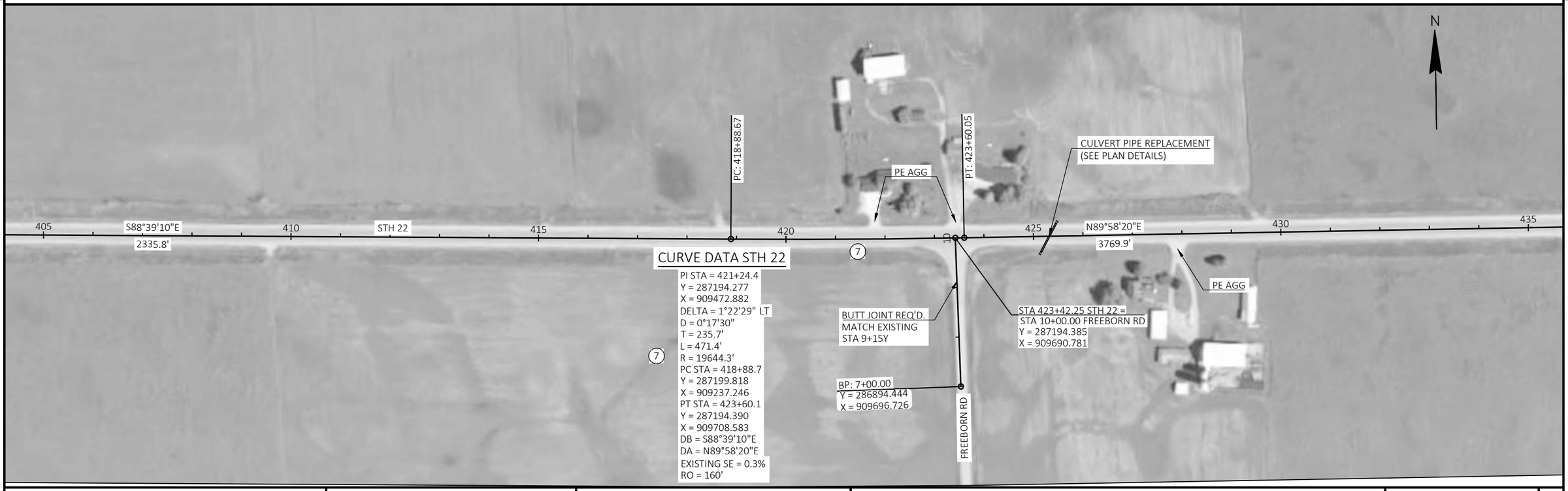
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	PLAN SHEETS	SHEET 148	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050206-pn

PLOT DATE : 5/16/2025 11:26 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : ##########

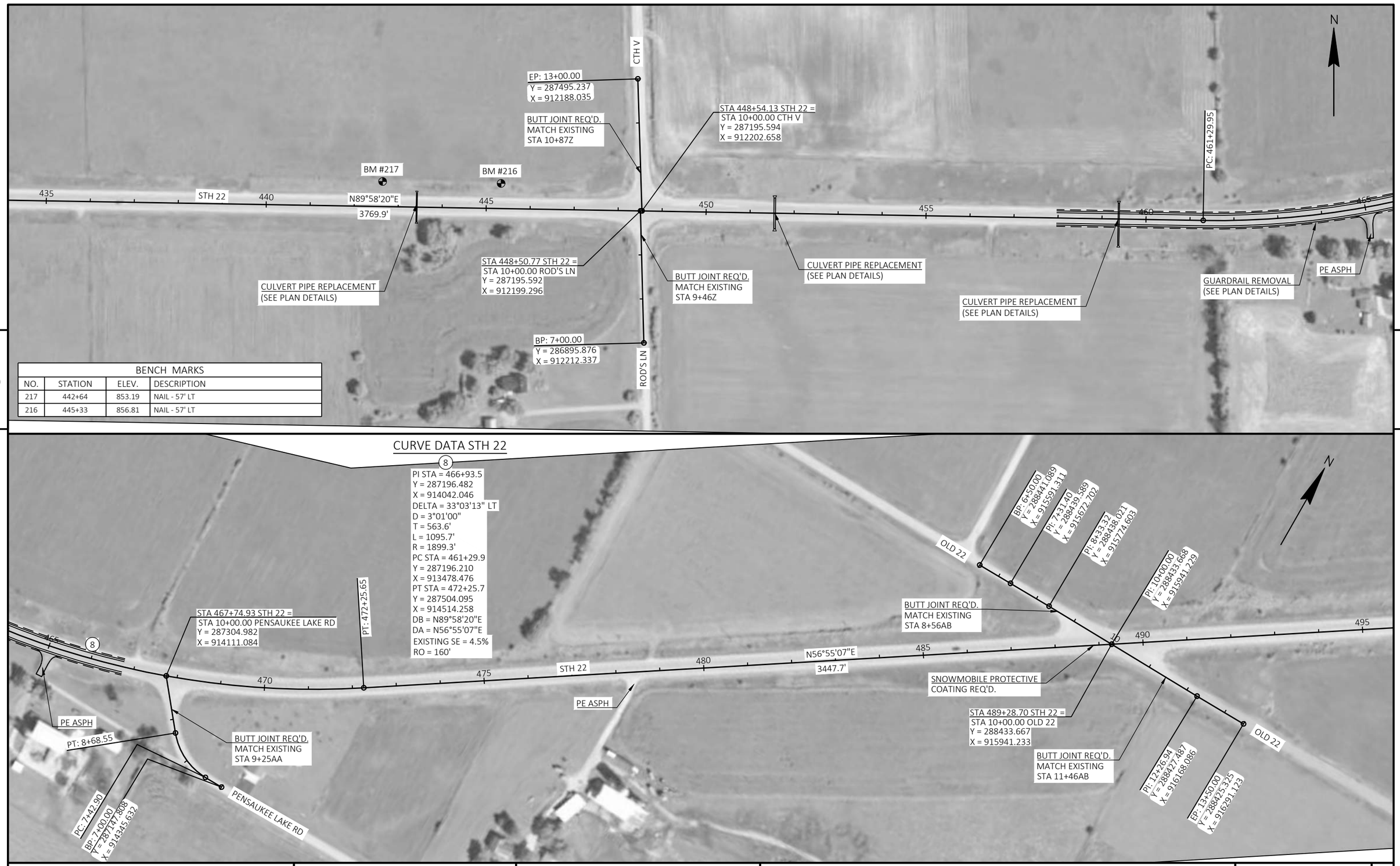


BENCH MARKS			
NO.	STATION	ELEV.	DESCRIPTION
212	378+57	828.27	NAIL - 91' LT
213	383+92	837.53	NAIL - 68' LT

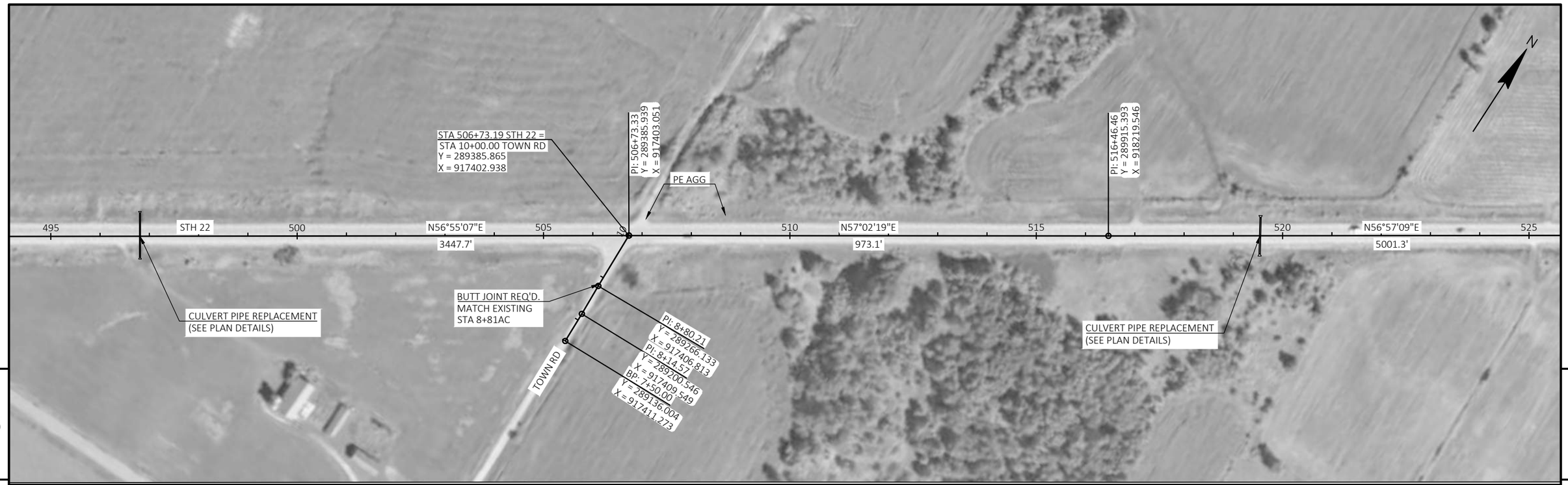


5 5

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN SHEETS	SHEET 149	E



PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN SHEETS	SHEET 150	E



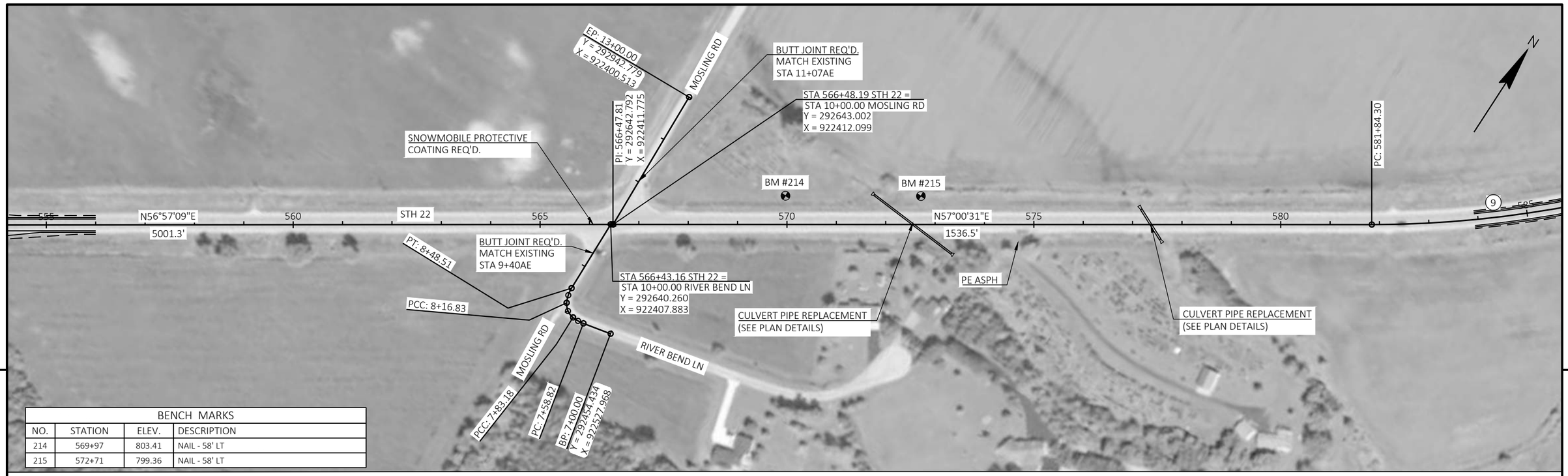
5

5

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN SHEETS	SHEET 151	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050209-pn

PLOT DATE : 5/16/2025 11:26 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : ##########



PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN SHEETS	SHEET 152	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050210-pn

PLOT DATE : 5/16/2025 11:26 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

ADJUSTING INLET COVERS WITHIN PULCIFER
(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)

BUTT JOINT REQ'D.
MATCH EXISTING
STA 11+10AH

PT: 10+73.41

EP: 13+00.00
Y = 296573.536
X = 925883.505

PI: 616+80.95
Y = 296209.634
X = 925861.345

PULCIFER RD

PI: 619+77.57
Y = 296446.924
X = 926039.333

SNOWMOBILE PROTECTIVE
COATING REQ'D.

PC: 10+02.60

615

N36°02'23"E
1920.7'

N36°52'23"E
296.6'

620

625

N36°04'26"E
1602.5'

630

STH 22

635

640

645

PT: 9+84.26

STA 617+73.47 STH 22 =
STA 10+00.00 PULCIFER RD
Y = 296283.653
X = 925916.866

BUTT JOINT REQ'D.
MATCH EXISTING
STA 9+15AH

PC: 9+12.99

BP: 7+50.00
Y = 296250.483
X = 926158.025

STA 617+73.47 STH 22 =
STA 10+00.00 RIVER LN
Y = 296283.653
X = 925916.866

RIVER LN

PE AGG

CURVE DATA STH 22
(10)
PI STA = 640+77.7
Y = 298144.411
X = 927275.975
DELTA = 34°27'55" LT
D = 3°34'15"
T = 497.7'
L = 965.2'
R = 1604.5'
PC STA = 635+80.1
Y = 297742.147
X = 926982.921
PT STA = 645+45.2
Y = 298641.906
X = 927289.947
DB = N36°04'26"E
DA = N01°36'31"E
EXISTING SE = 5.25%
RO = 160'

PC: 635+80.06

BUTT JOINT
REQ'D.

END PROJECT
9180-17-72
STA 633+50

N

ZASTROW RD

BP: 7+00.00
Y = 298391.993
X = 926962.527

PT: 645+45.24

STA 642+89.68 STH 22 =
STA 10+00.68 ZASTROW RD
Y = 298388.096
X = 927262.502

STA 642+85.68 STH 22 =
STA 10+00.00 ZASTROW RD
Y = 298384.163
X = 927261.751

EP: 13+00.00
Y = 298378.706
X = 927561.702

ZASTROW RD

5

5

PROJECT NO: 9180-17-72	HWY: STH 22	COUNTY: SHAWANO	PLAN SHEETS	SHEET 153	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050211-pn

PLOT DATE : 5/16/2025 11:27 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : ##########

Standard Detail Drawing List

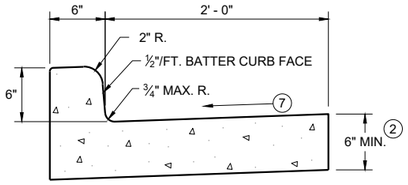
08D01-24A	CONCRETE CURB & GUTTER
08D01-24B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-08A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-08B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-08C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D05-22A	CURB RAMPS TYPES 1 AND 1-A
08D05-22B	CURB RAMPS TYPES 2 AND 3
08D05-22C	CURB RAMPS TYPES 4A AND 4A1
08D05-22D	CURB RAMPS TYPE 4B AND 4B1
08D05-22E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-22F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-22G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-14A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-14B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
13A11-04A	CENTERLINE RUMBLE STRIPS - ASPHALT
13C19-03	HMA LONGITUDINAL JOINTS
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-04A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-04B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-04C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B53-03A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03I	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-09H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-16B	PAVEMENT MARKING WORDS

6

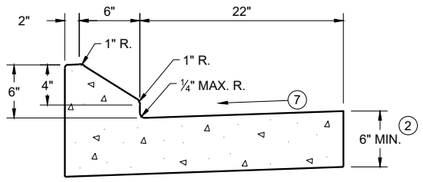
Standard Detail Drawing List

15C07-16C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-09B	TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL
15D48-01	TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

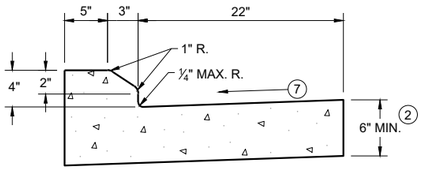
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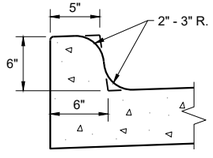
TYPES A (1) & D



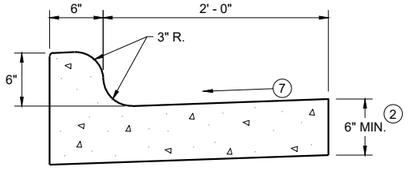
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

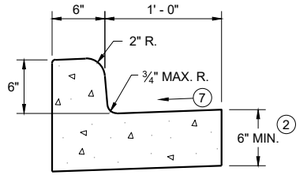


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



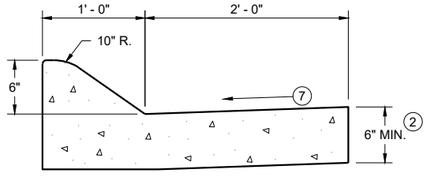
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

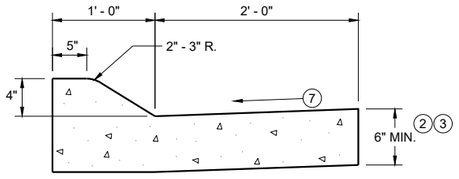


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

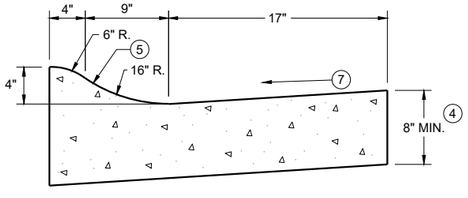


6" SLOPED CURB TYPES A (1) & D



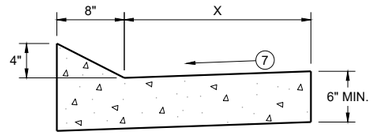
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T
CONCRETE CURB AND GUTTER 30"

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

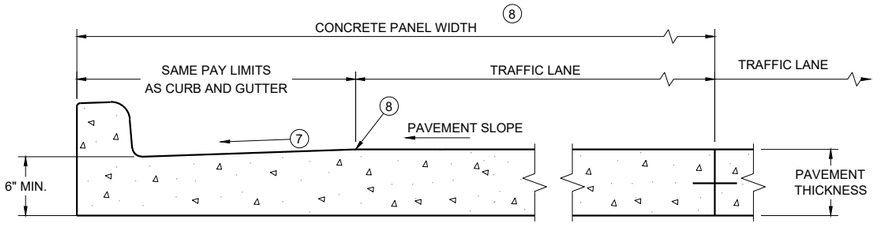


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

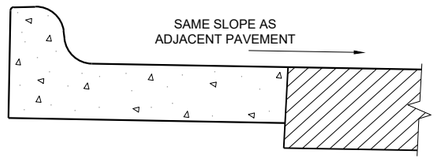
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

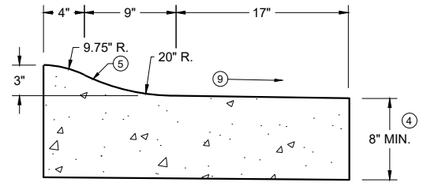
(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(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.

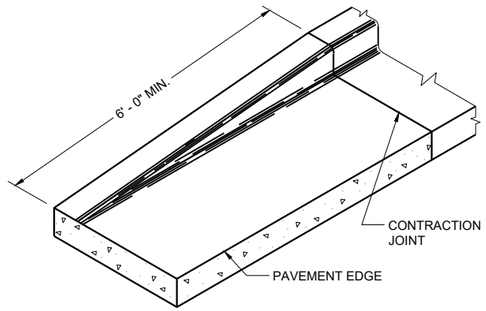
(9) SLOPE TO BE REVERSE SLOPE MATCHING THE SLOPE OF THE PAVEMENT AND THE CIRCULATORY ROADWAY



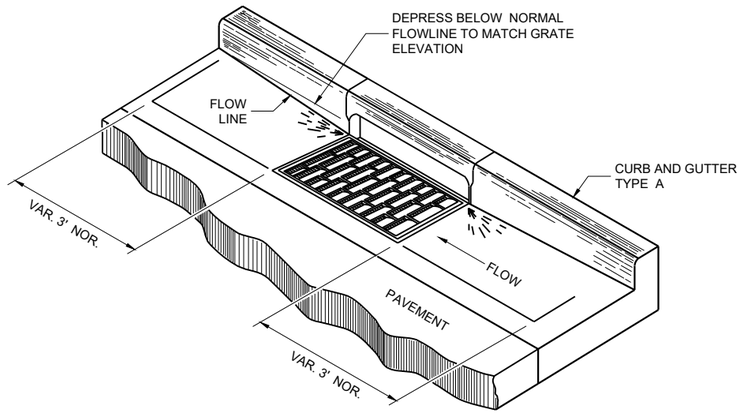
3" SLOPED CURB TYPES R (1) & T

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

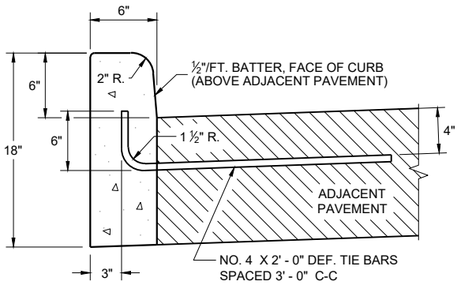
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

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

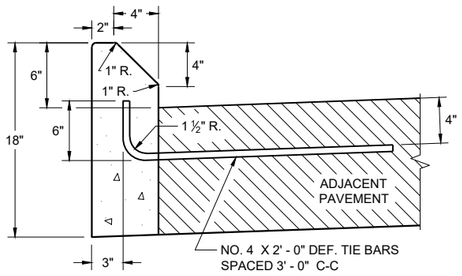
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

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

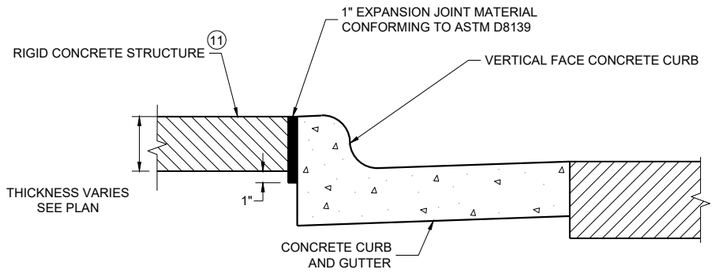


TYPES A (1) & D

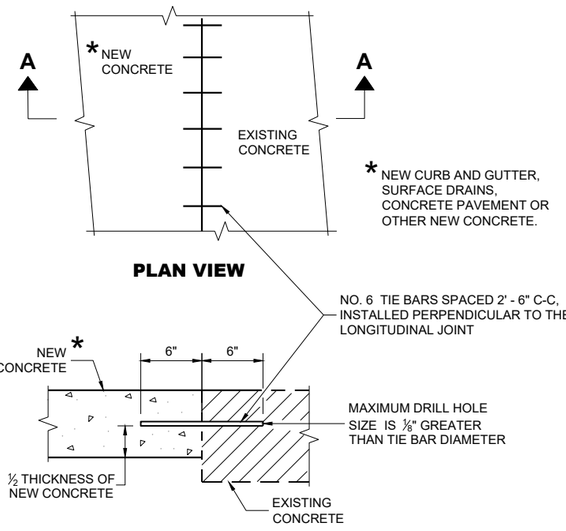


TYPES G (1) & J

CONCRETE CURB



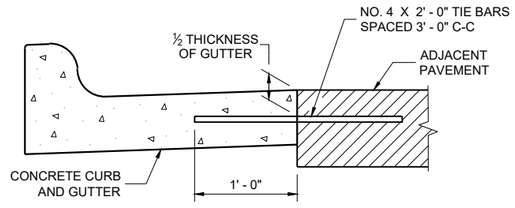
EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)



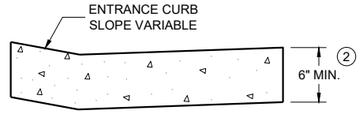
PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6
SDD 08D01-24b

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.

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

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

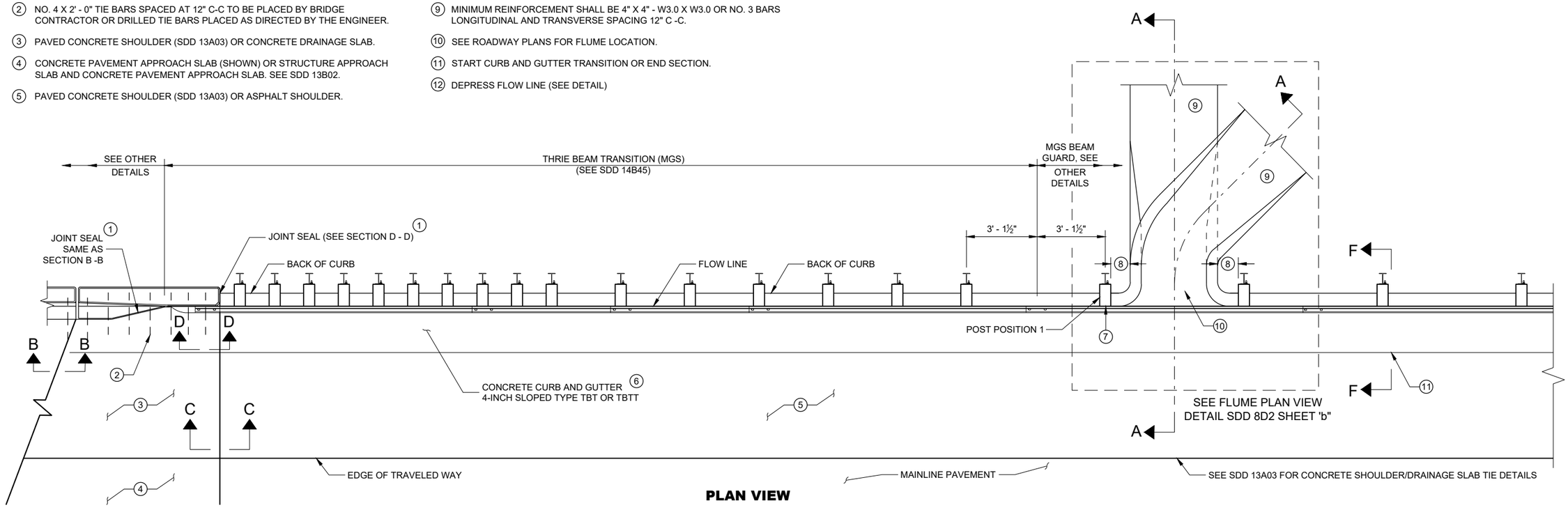
(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

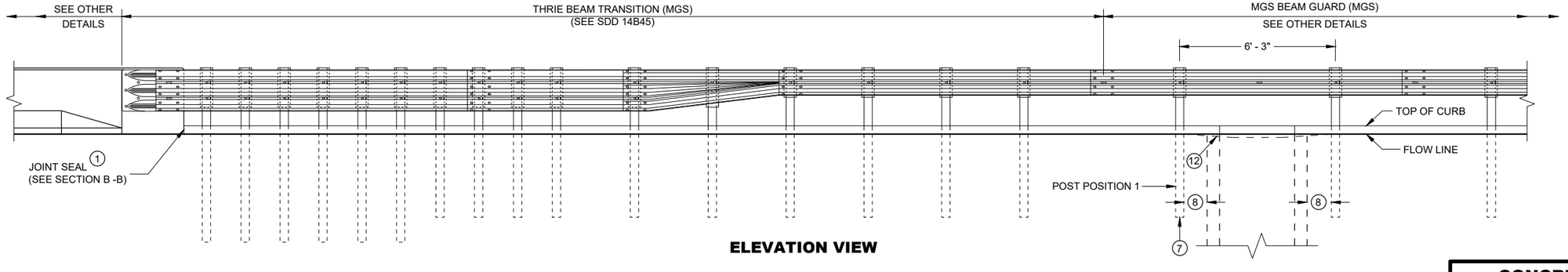
(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)



PLAN VIEW



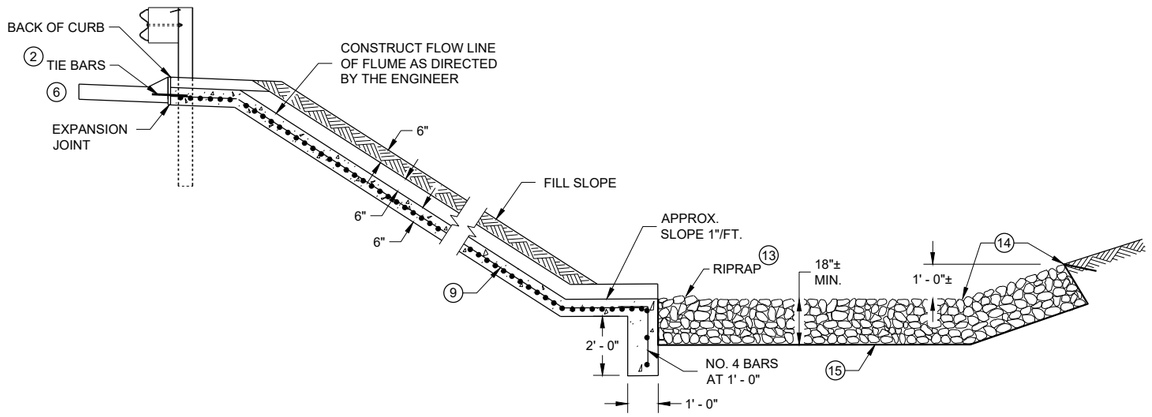
ELEVATION VIEW

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

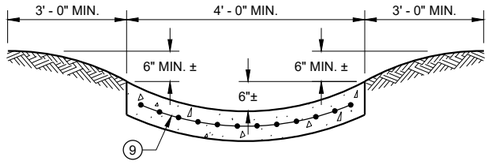
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D02 - 08a

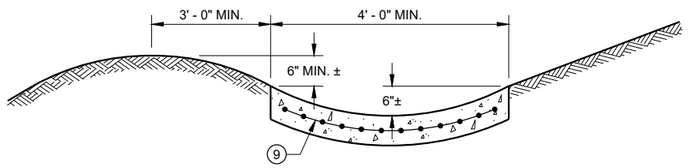
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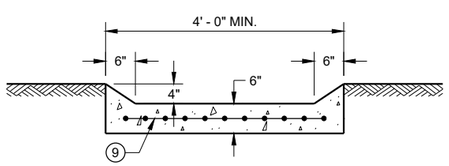
SECTION A - A



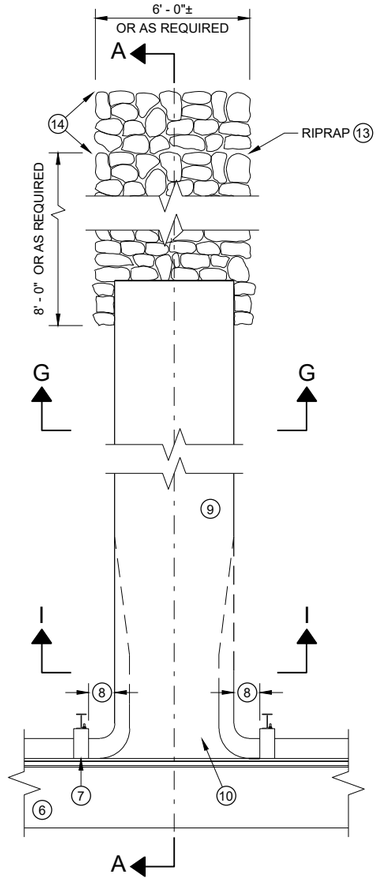
SECTION G - G



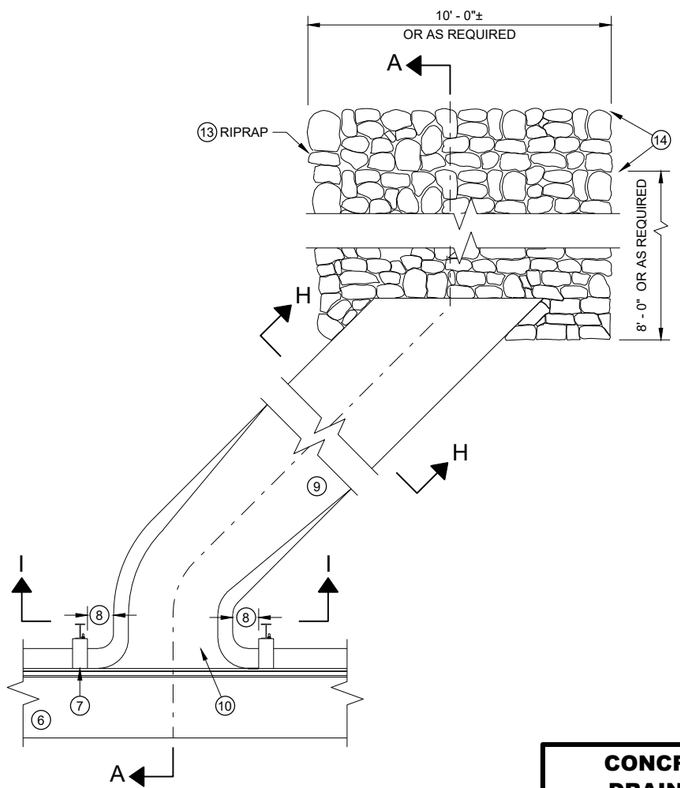
SECTION H - H



SECTION I - I



PLAN VIEW PERPENDICULAR FLUME



PLAN VIEW SKEWED FLUME

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.

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

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)

(13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH AS REQUIRED.

(15) GEOTEXTILE TYPE HR.

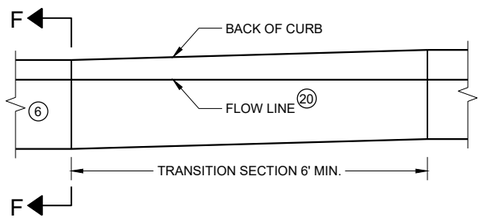
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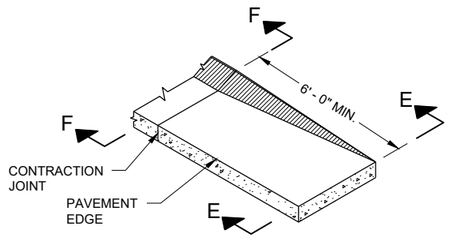
SDD 08D02 - 08b

SDD 08D02 - 08b

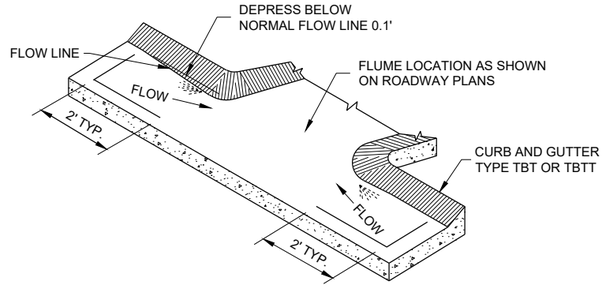
CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES



**CURB AND GUTTER TRANSITION SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT**



**CURB AND GUTTER END SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT**



**CURB AND GUTTER FLOW LINE DEPRESSION
AT FLUMES CONCRETE CURB AND GUTTER
4-INCH SLOPED 36 INCH TYPE TBT OR TBTT**

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.

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

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)

(13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(15) GEOTEXTILE TYPE HR.

(16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.

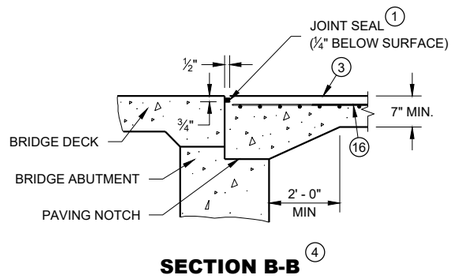
(17) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.

(18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.

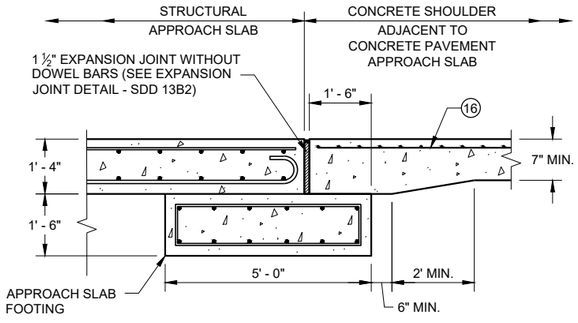
(19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.

(20) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

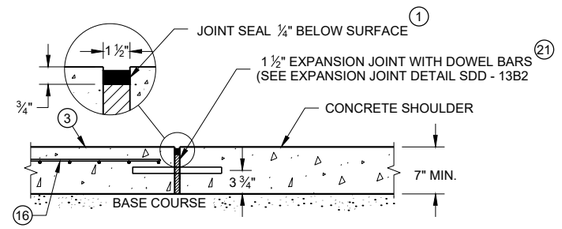
(21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



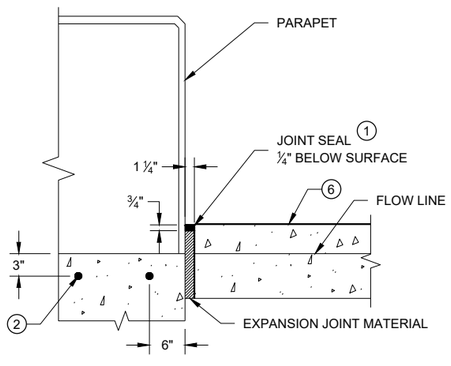
SECTION B-B (4)



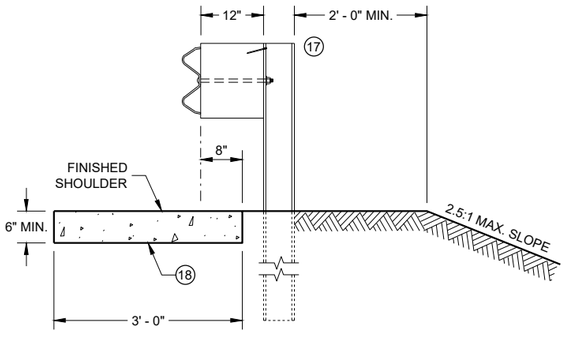
SECTION C - C
JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



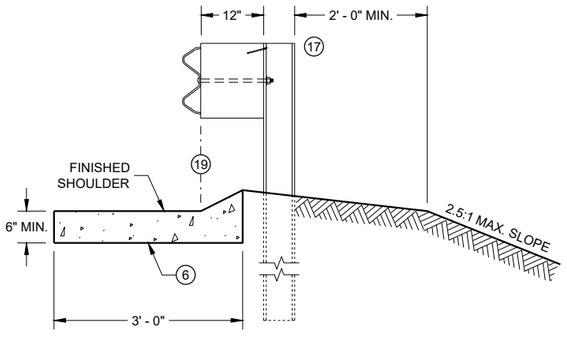
SECTION C - C
JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS



SECTION D - D



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

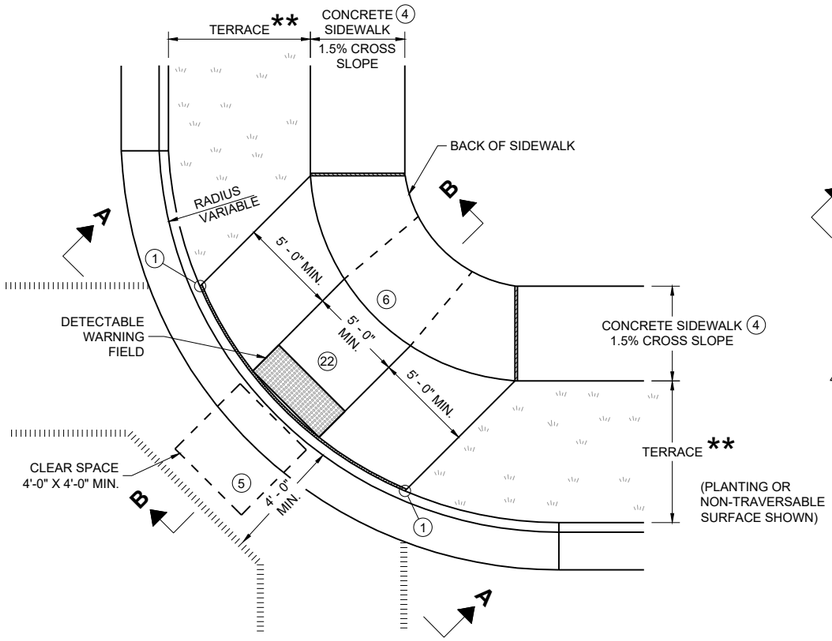
FHWA

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SDD 08D02 - 08c

6

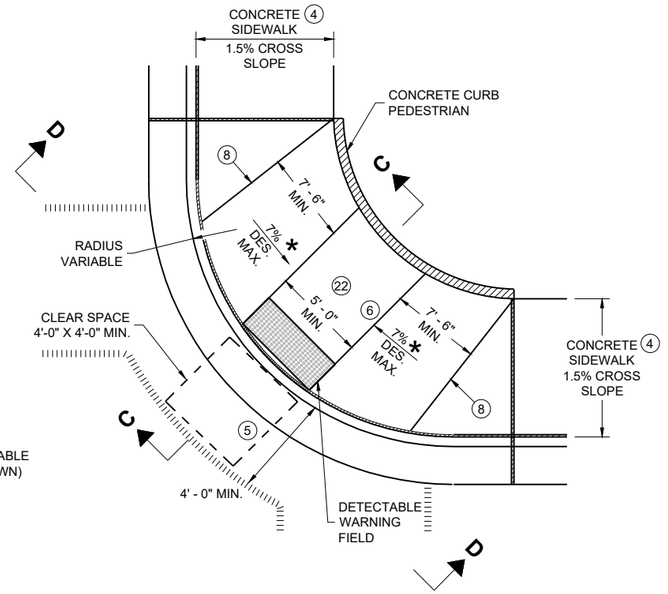
SDD 08D02 - 08c



PLAN VIEW

CURB RAMP TYPE 1

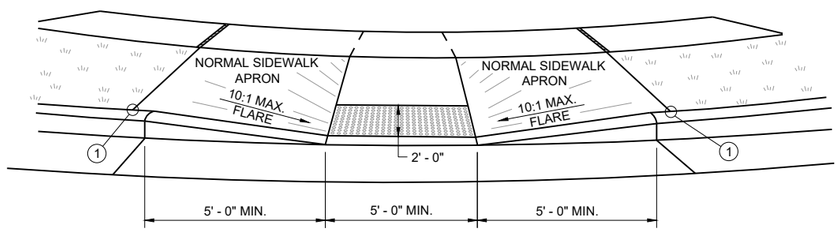
(CENTER OF CORNER RADIUS)



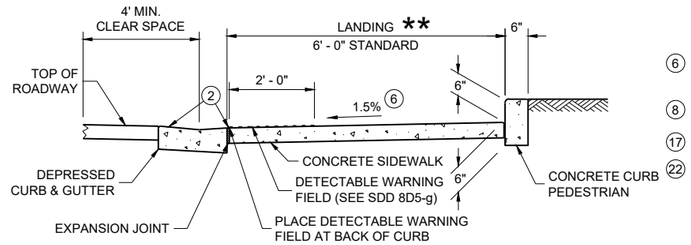
PLAN VIEW

CURB RAMP TYPE 1 - A

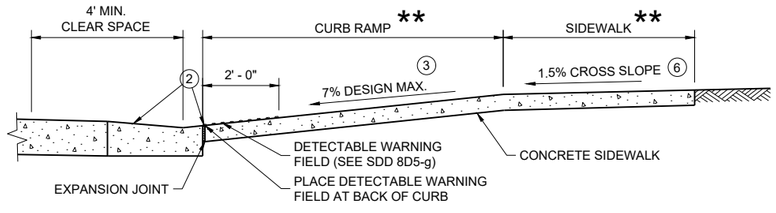
(NO TERRACE)



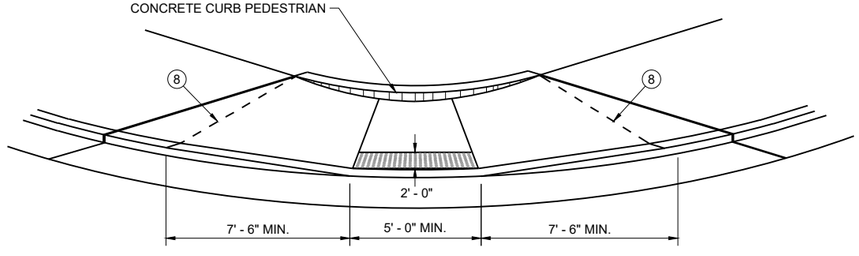
VIEW A - A FOR TYPE 1



SECTION C - C FOR TYPE 1 - A



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 CURB 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 CURB RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF CURB 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 CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A CLEAR SPACE IN THE STREET AND GUTTER AREA. WHEN THE GUTTER CROSS SLOPE EXCEEDS 2.1%, CONSTRUCT THE CLEAR SPACE IN THE STREET AREA AND THE 4 FOOT WIDTH IS MEASURED FROM THE FLANGE LINE. FOR RECONSTRUCTION AND MODERNIZATION PROJECTS THE CLEAR SPACE SLOPE PARALLEL TO THE CURBLINE SHOULD BE 2.1% MAX FOR CROSSINGS THAT ARE STOP AND YIELD CONTROLLED, AND 5% MAX FOR THOSE THAT ARE SIGNAL CONTROLLED. FOR PERPETUATION AND REHABILITATION PROJECTS THE SLOPE OF THE CLEAR SPACE PARALLEL TO THE CURBLINE WILL MATCH THE ROADWAY LONGITUDINAL SLOPE. THE SLOPE OF THE CLEAR SPACE PERPENDICULAR TO THE CURBLINE WILL MATCH THE ROADWAY CROSS SLOPE BUT SHOULD NOT EXCEED 5% UNLESS THE ROADWAY IS SUPERELEVATED (WHEN SUPERELEVATED THE ROADWAY CROSS SLOPE SHOULD MATCH THE SUPERELEVATION).

(6) PROVIDE A 5 FOOT BY 5 FOOT LANDING. SLOPE PERPENDICULAR TO CURB SHALL BE 2.1% MAXIMUM. SLOPE PARALLEL TO CURB SHALL MATCH THE CURB AND GUTTER LONGITUDINAL SLOPE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

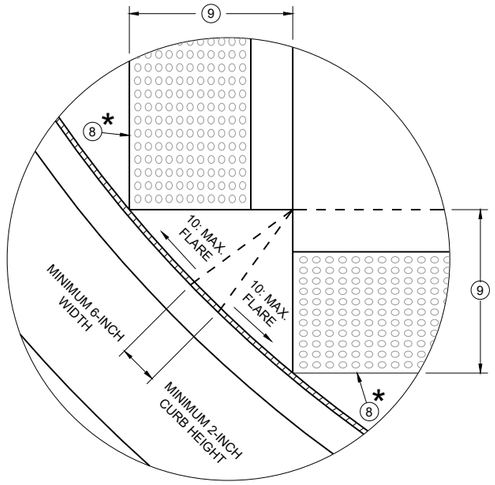
(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

LEGEND

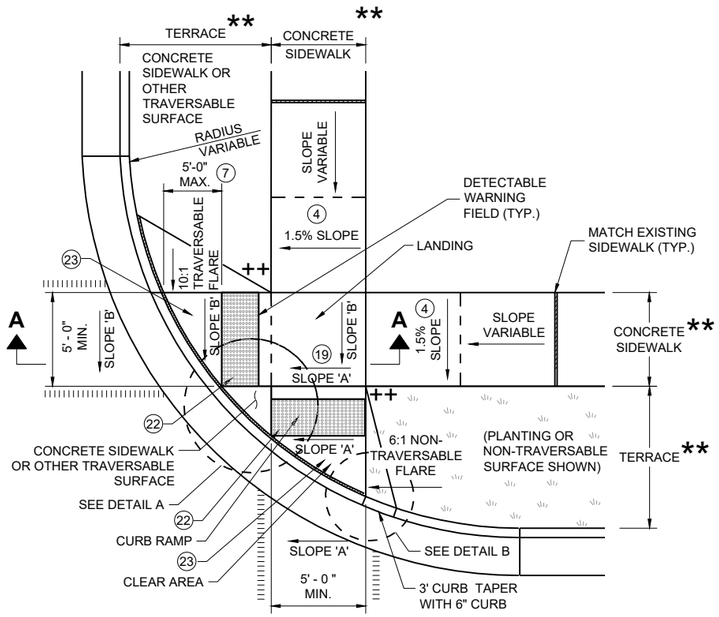
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- * MAXIMUM 8.3%
- ** WIDTH SHOWN ELSEWHERE IN THE PLANS

CURB RAMPS TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



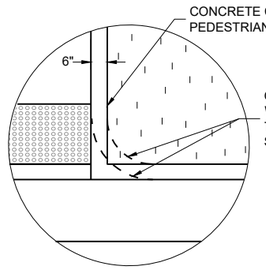
DETAIL A



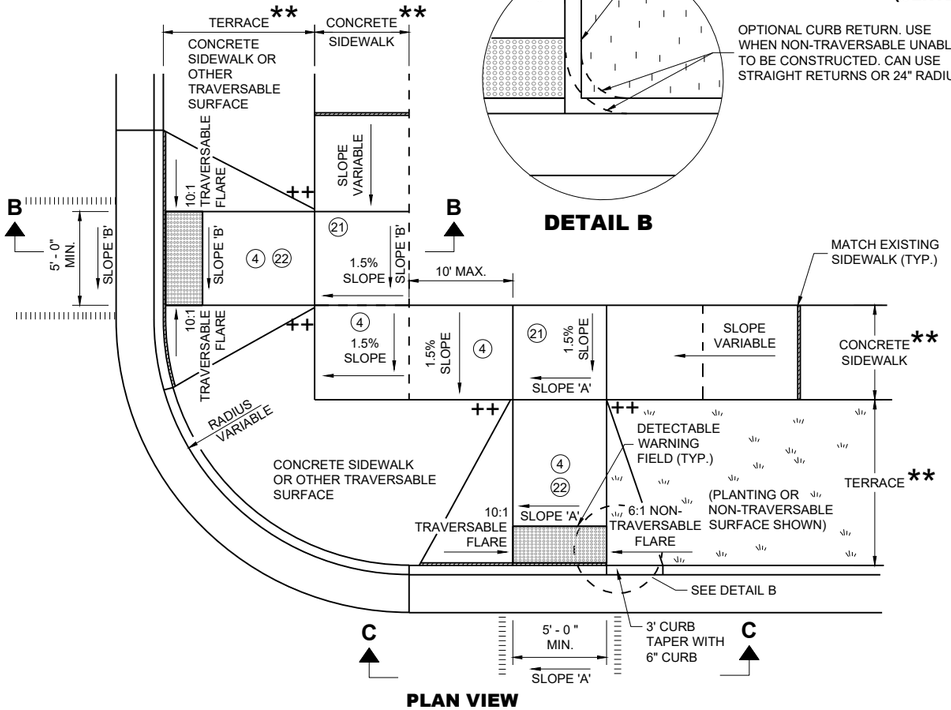
PLAN VIEW

CURB RAMP TYPE 2

(CENTER OF CORNER RADIUS)



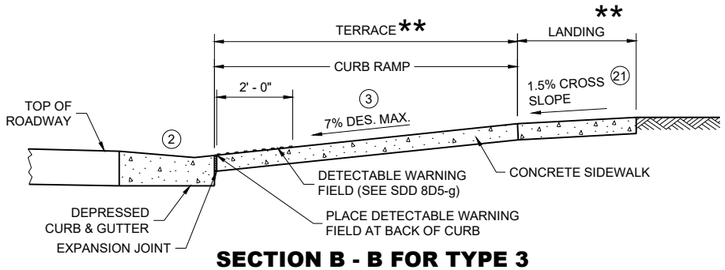
DETAIL B



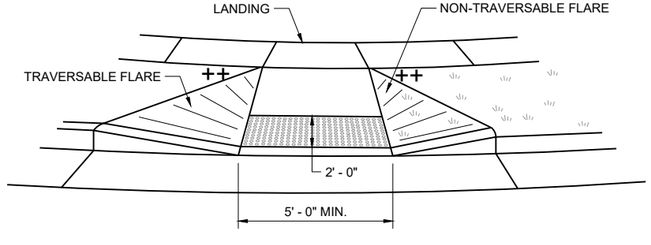
PLAN VIEW

CURB RAMP TYPE 3

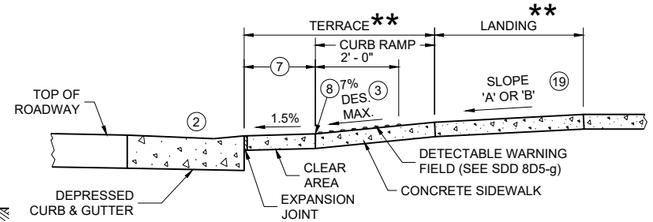
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3



SECTION A - A FOR TYPE 2

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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% DESIGN MAXIMUM SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% DESIGN MAXIMUM SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

(19) WHERE A LANDING SERVES TWO CURB RAMPS, THE LANDING SLOPE SHALL NOT EXCEED THE CROSS SLOPE AT THE BOTTOM OF THE RAMP OR WITHIN THE CROSSWALK PARALLEL TO THE DIRECTION OF TRAVEL.

(21) PROVIDE A LANDING WITH A SLOPE PARALLEL TO ROADWAY THAT MATCHES SLOPE AT THE BOTTOM OF THE ADJACENT RAMP. SLOPE PERPENDICULAR TO ROADWAY SHALL BE 2.1% MAXIMUM. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.

LEGEND

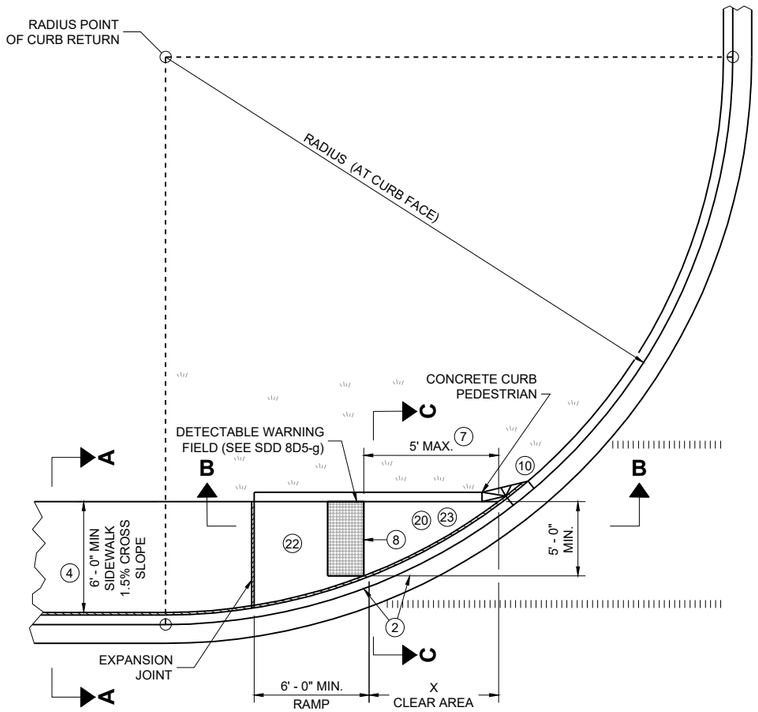
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)
- * MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK
- ** WIDTH SHOWN ELSEWHERE IN THE PLANS
- ++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

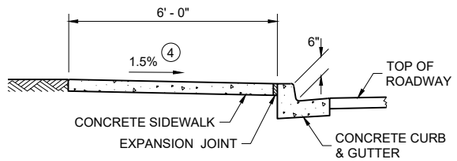
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SDD 08D05-22b

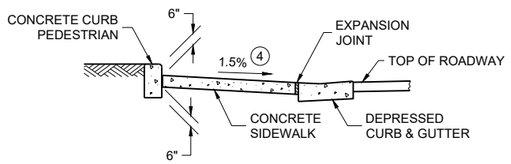


PLAN VIEW

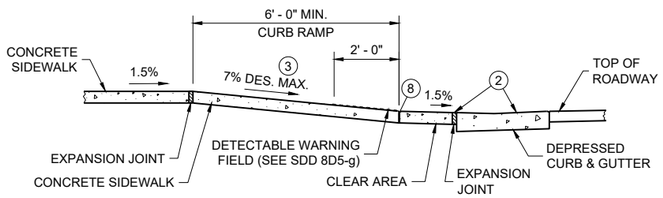
CURB RAMP TYPE 4A



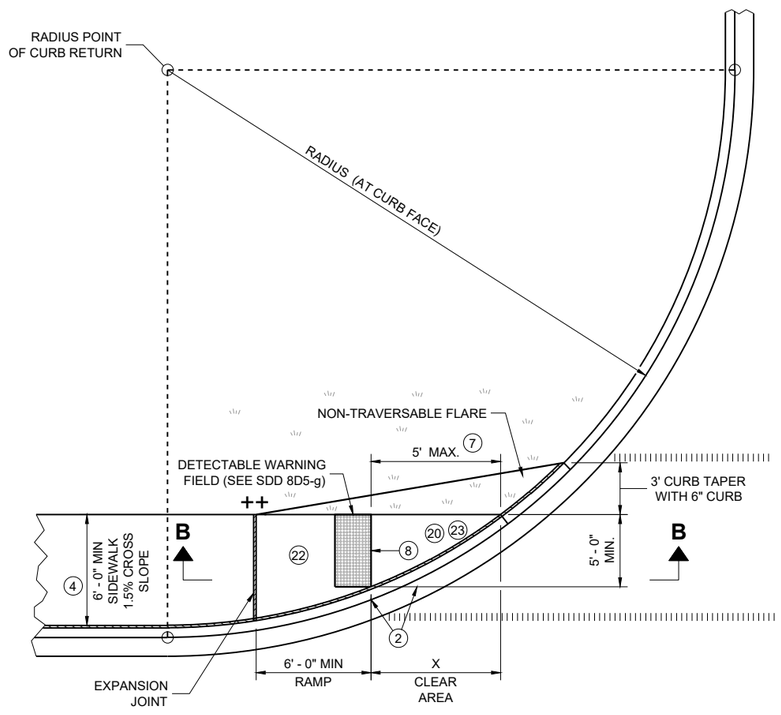
SECTION A - A FOR TYPE 4A



SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1



PLAN VIEW

CURB RAMP TYPE 4A1

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)
- ++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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.

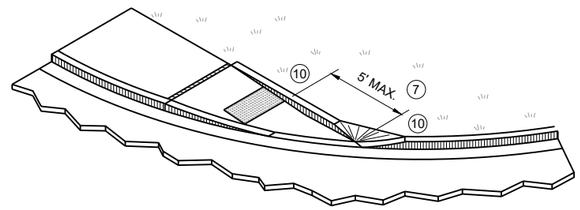
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

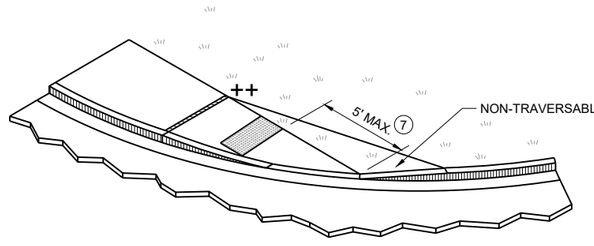
(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



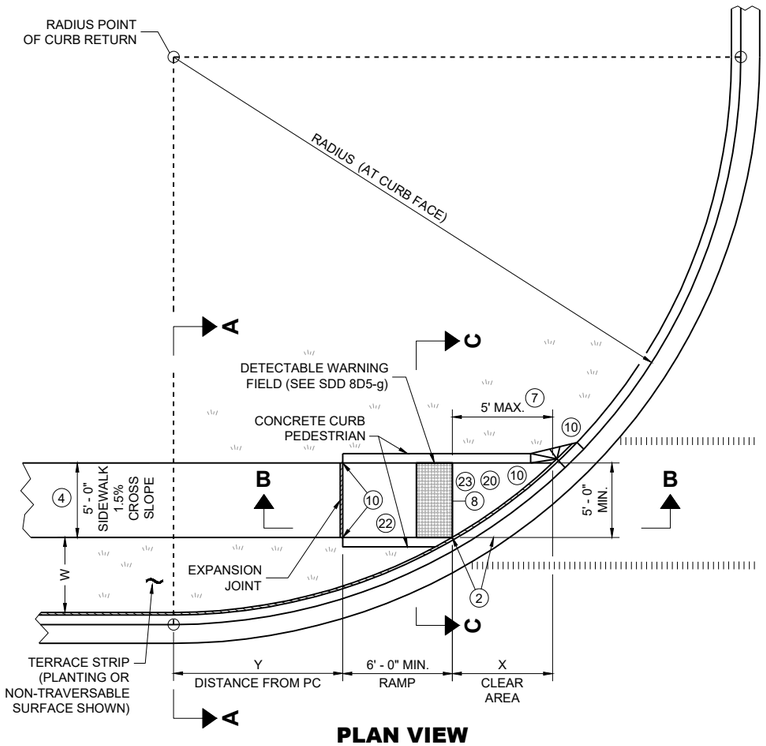
ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

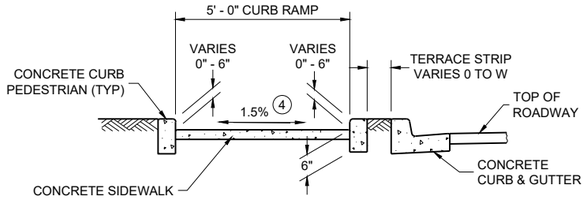
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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			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									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															4' - 10 ¾"	19' - 8 ¼"

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)
- * MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK
- ++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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.

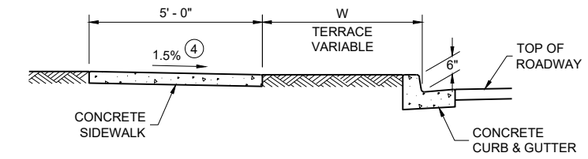
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

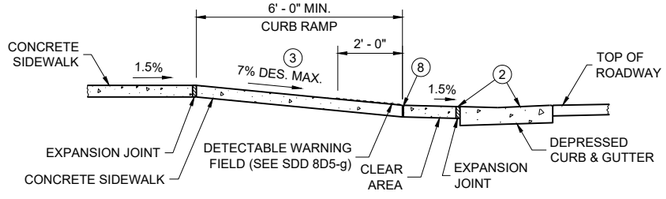
(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

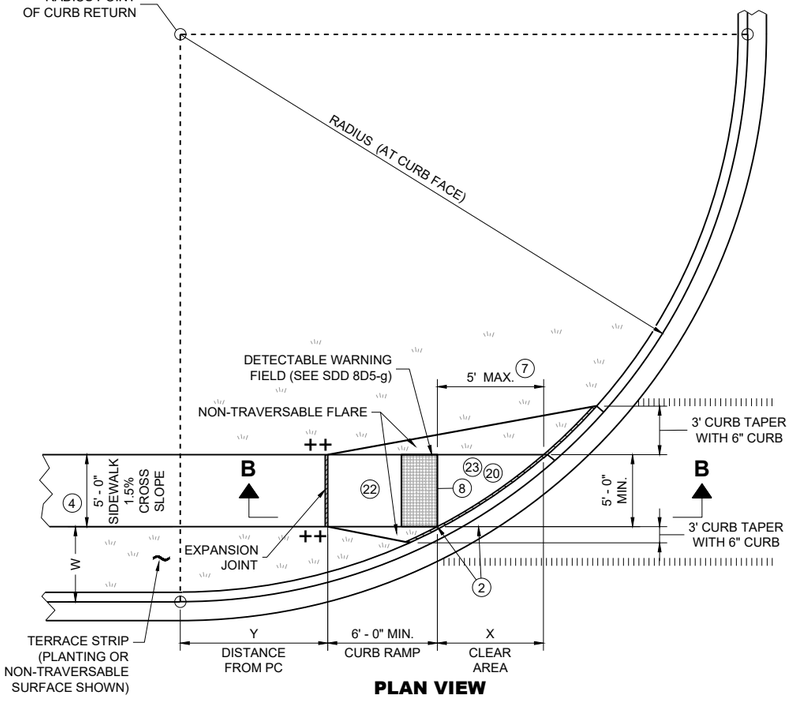
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



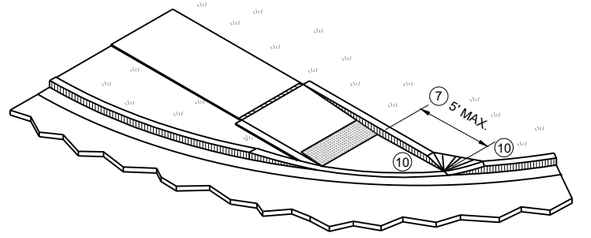
SECTION A - A FOR TYPE 4B



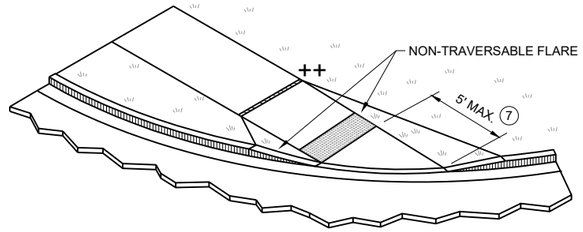
SECTION B - B FOR TYPE 4B AND TYPE 4B1



PLAN VIEW
CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



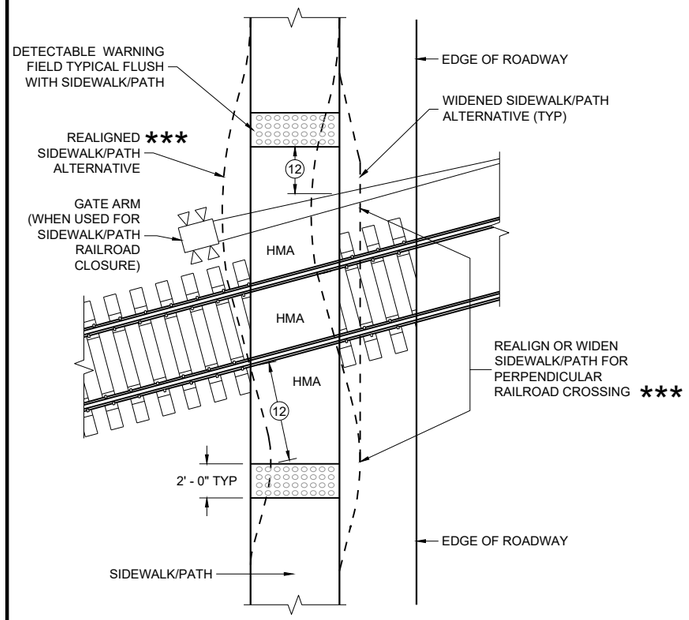
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

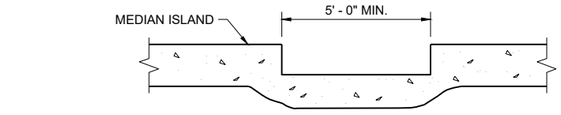
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SDD 08D05-22d

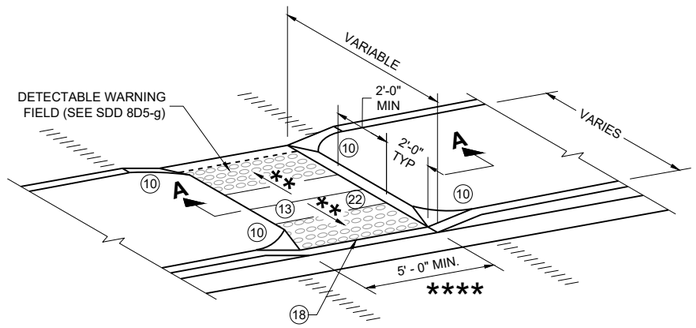


CURB RAMP TYPE 8

DETECTABLE WARNINGS FOR SIDEWALKS OR SHARED USE PATHS AT RAILROAD CROSSINGS



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 CURB 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 2.1%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A 5 FOOT BY 5 FOOT LANDING. SLOPE PERPENDICULAR TO CURB SHALL BE 2.1% MAXIMUM. SLOPE PARALLEL TO CURB SHALL MATCH THE CURB AND GUTTER LONGITUDINAL SLOPE.

(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/PATH, WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD TRACK IS 15 FEET MAXIMUM AND 12 FEET MINIMUM, 15 FEET TYPICAL 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.

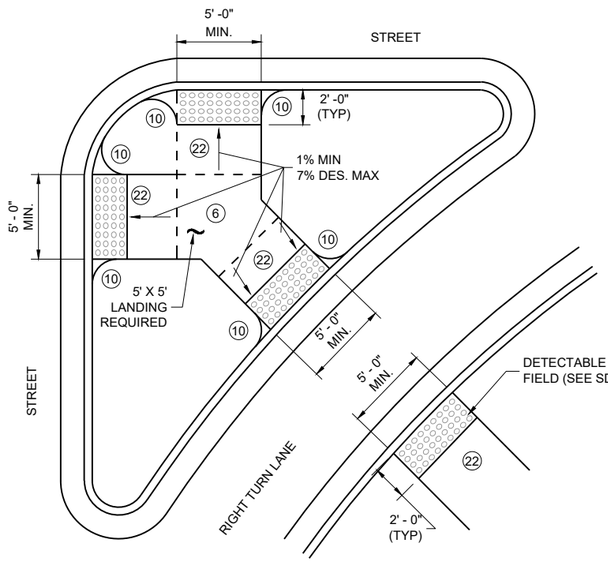
(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

(18) WHEN THE DISTANCE BETWEEN THE BACK OF CURBS IS LESS THAN 6 FEET BUT THE FACE OF CURB TO FACE OF CURB DISTANCE IS 6 FEET OR GREATER THEN THE DETECTABLE WARNING FIELDS MAY BE MOVED SO THAT THE EDGE OF THE WARNING FIELD IS PLACED AT THE GUTTER FLOWLINE. MAINTAIN A MINIMUM OF TWO FEET BETWEEN DETECTABLE WARNING FIELD PANELS.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

CURB RAMP TYPE 7A

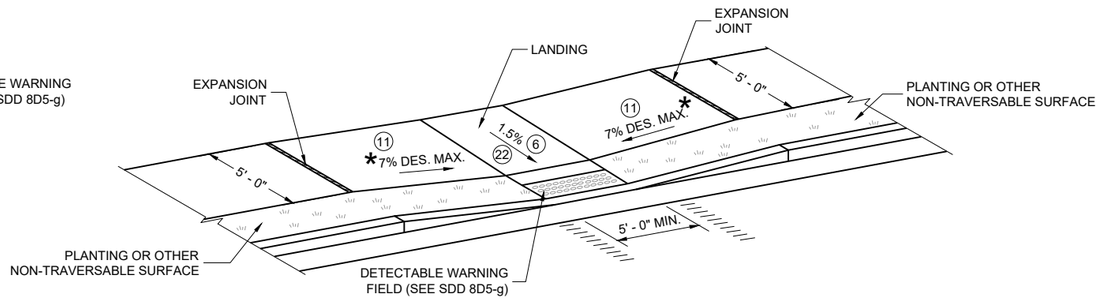
FOR INTERSECTIONS AND MID BLOCK CROSSINGS



CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS

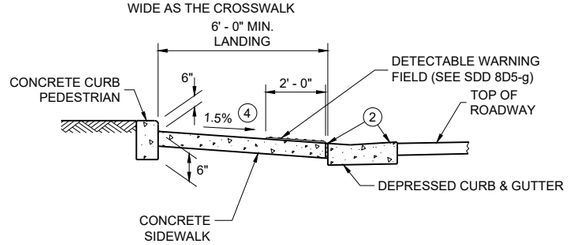


CURB RAMP TYPE 7B

FOR INTERSECTIONS AND MID BLOCK CROSSINGS

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- * MAXIMUM 8.3%
- ** 1% MINIMUM (PROVIDE DRAINAGE)
- *** DETAILS TO BE DETERMINED BY ENGINEER
- **** FOR SHARED USE PATHS, WIDTH MUST BE AS WIDE AS THE CROSSWALK

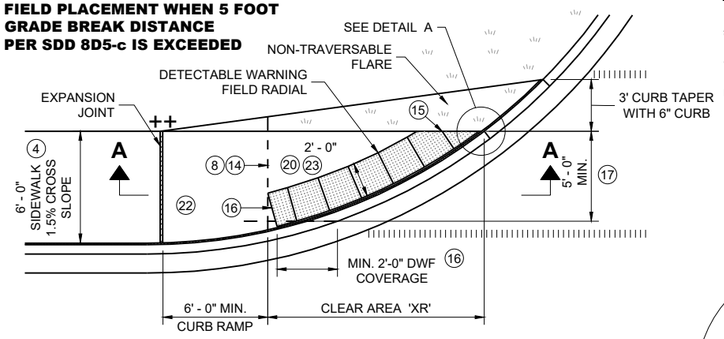


SECTION B - B FOR TYPE 7A

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

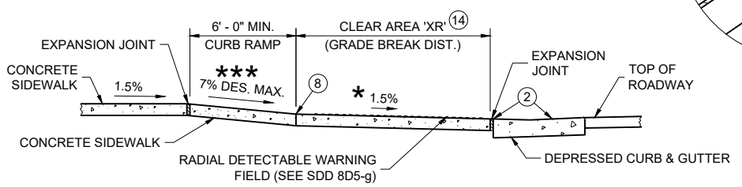
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

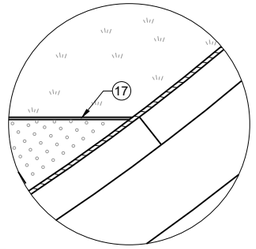
CURB RAMP TYPE 4A1
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



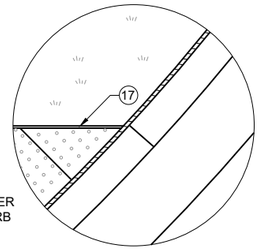
SECTION A - A FOR TYPE 4A1

LEGEND

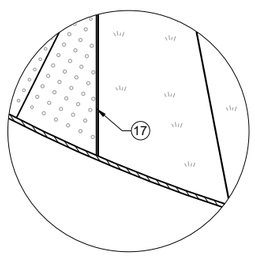
═══	½" EXPANSION JOINT SIDEWALK
– – – –	CONTRACTION JOINT SIDEWALK
ıı ıı ıı ıı	PAVEMENT MARKING CROSSWALK (WHITE)
**	WIDTH SHOWN ELSEWHERE IN THE PLANS
***	MAXIMUM 8.3%
++	CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



DETAIL A



DETAIL B



DETAIL C

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB 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 COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A 5 FOOT BY 5 FOOT LANDING. SLOPE PERPENDICULAR TO CURB SHALL BE 2.1% MAXIMUM. SLOPE PARALLEL TO CURB SHALL MATCH THE CURB AND GUTTER LONGITUDINAL SLOPE.

(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 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

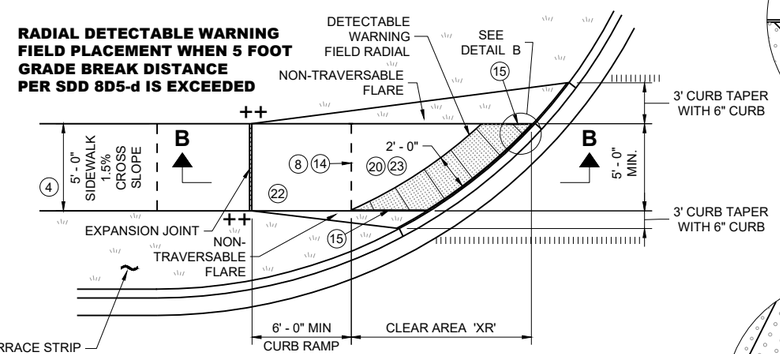
(19) WHERE A LANDING SERVES TWO CURB RAMPS, THE LANDING SLOPE SHALL NOT EXCEED THE CROSS SLOPE AT THE BOTTOM OF THE RAMP OR WITHIN THE CROSSWALK PARALLEL TO THE DIRECTION OF TRAVEL.

(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

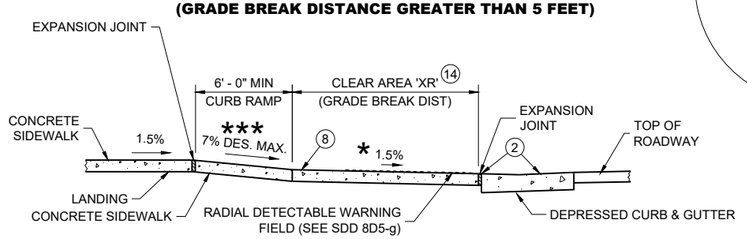
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



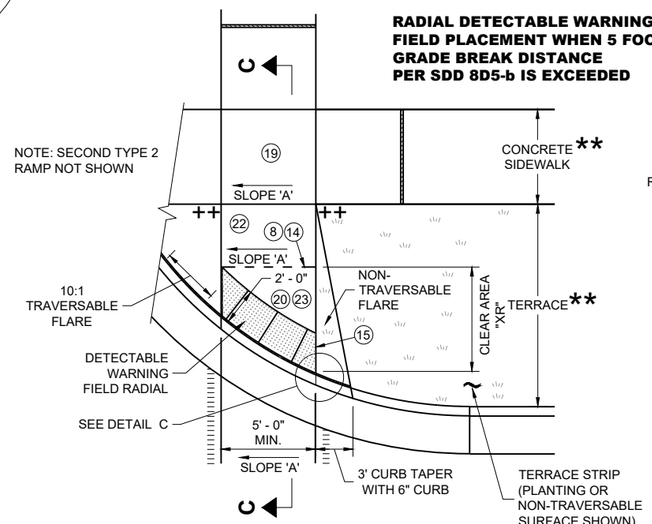
PLAN VIEW

CURB RAMP TYPE 4B1
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



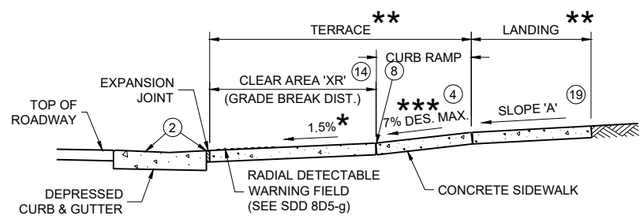
SECTION B - B FOR TYPE 4B1

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)



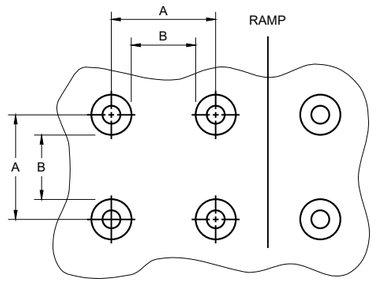
SECTION C - C FOR TYPE 2

CURB RAMPS
RADIAL DETECTABLE WARNING

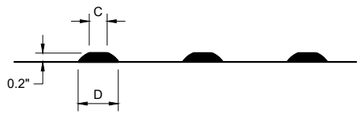
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

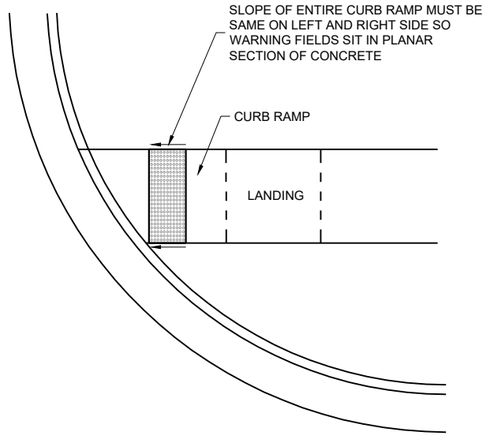
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW



DETECTABLE WARNING FIELD
PLANAR INSTALLATION

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.

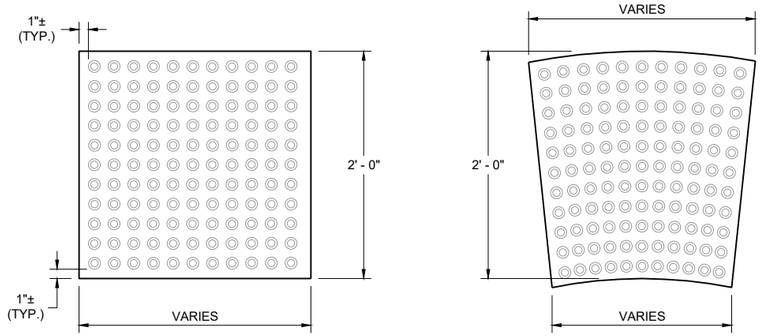
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. 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.

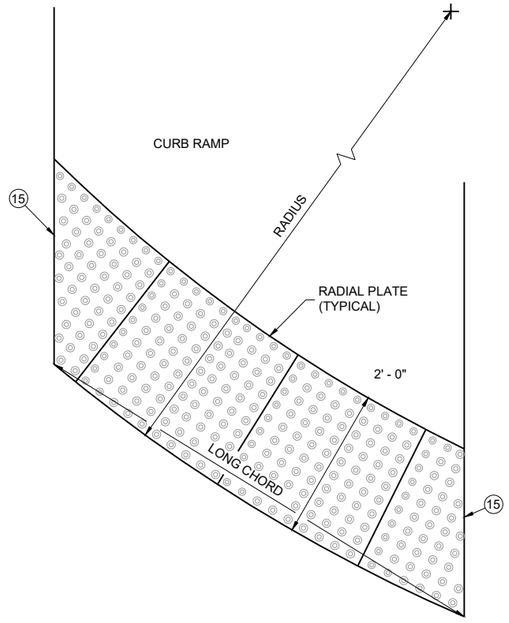
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



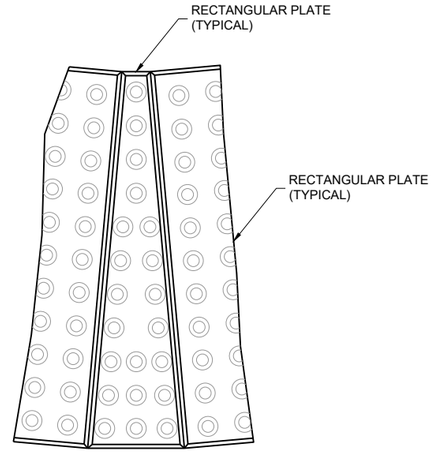
RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

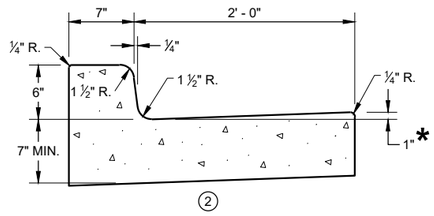
CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — <position>

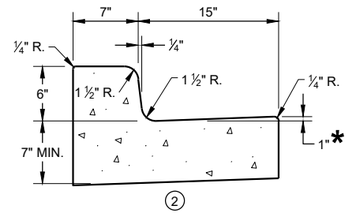
FHWA

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SDD 08D05-22g

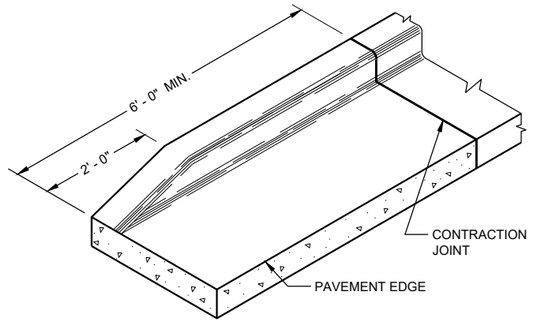


CONCRETE CURB AND GUTTER 31" ①

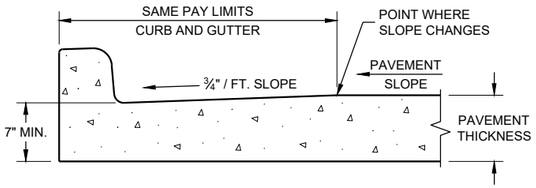
*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



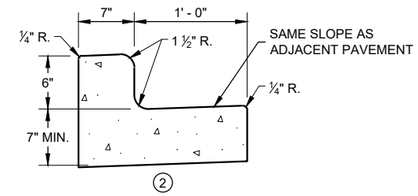
CONCRETE CURB AND GUTTER 22" ①



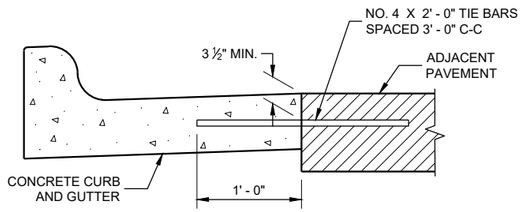
END SECTIONCURB AND GUTTER



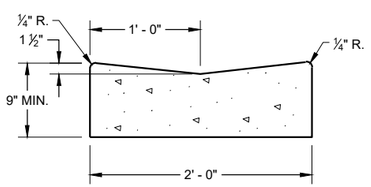
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER



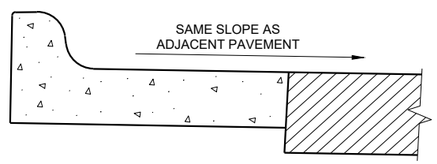
CONCRETE CURB AND GUTTER 19" ①



TYPICAL TIE BAR LOCATION ①



CONCRETE GUTTER 24" ①



HIGH SIDE SECTION ③

(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.

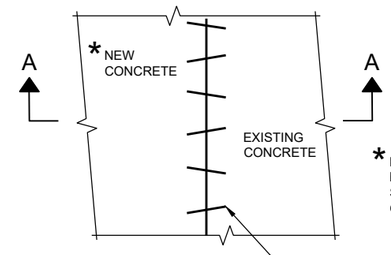
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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

① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUITED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

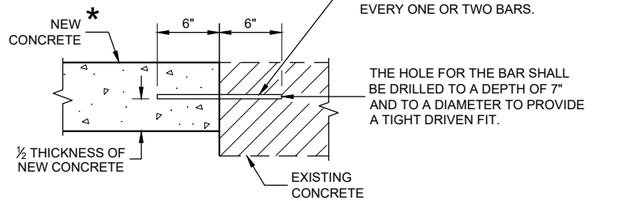
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLANS



PLAN VIEW

* EXISTING AND NEW CONCRETE MAY BE CURB AND GUTTER, SURFACE DRAINS, PAVEMENT OR OTHER CONCRETE STRUCTURE.



SECTION A - A

PAVEMENT TIES

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

(For Optional use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

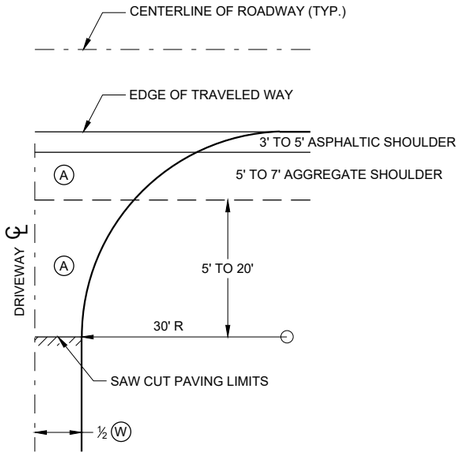
APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

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SDD 08D16 - 11
SDD 08D16 - 11

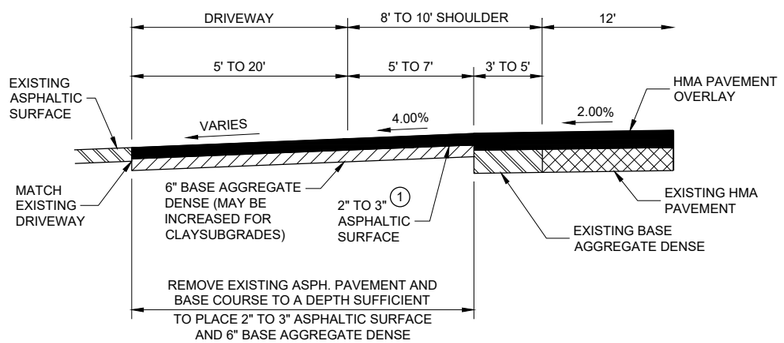
GENERAL NOTES

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



PLAN VIEW

HALF SECTION



PROFILE VIEW

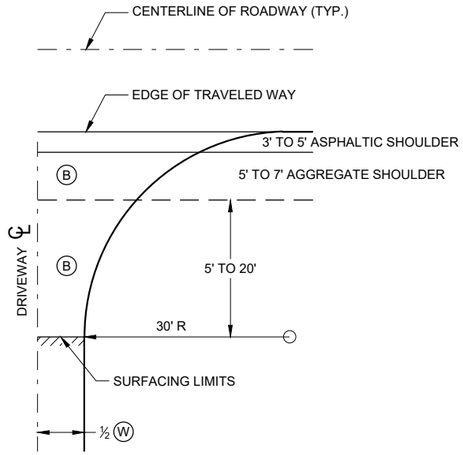
RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS

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

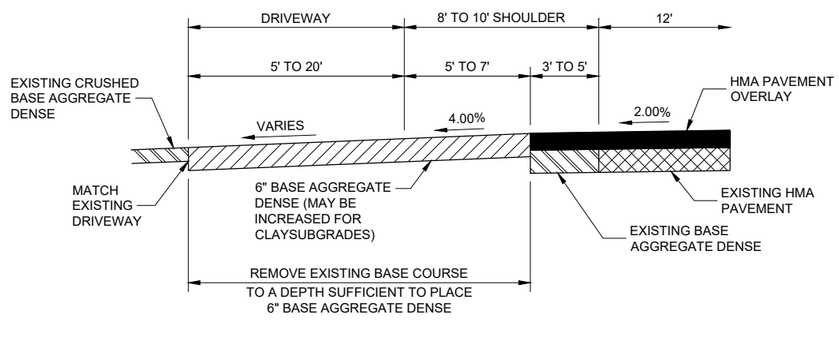
(B) : PAID FOR AS BASE AGGREGATE DENSE 1 ¼" (TON)

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



PLAN VIEW

HALF SECTION



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE

RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

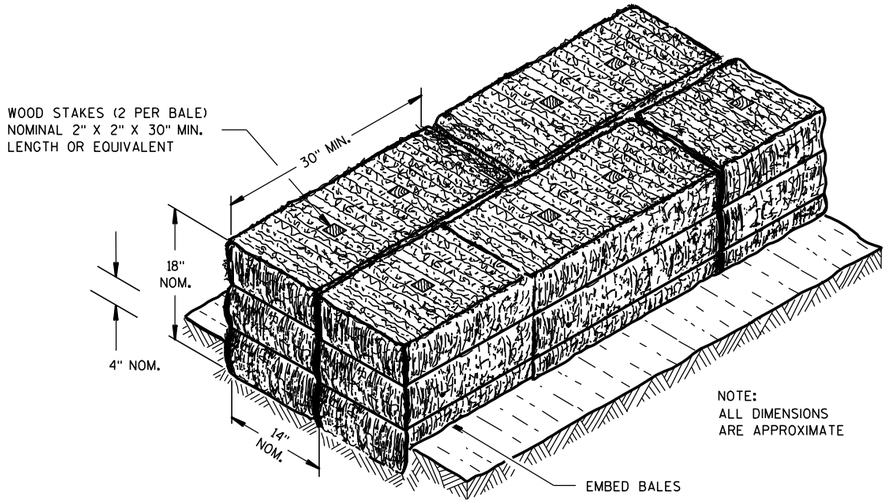
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

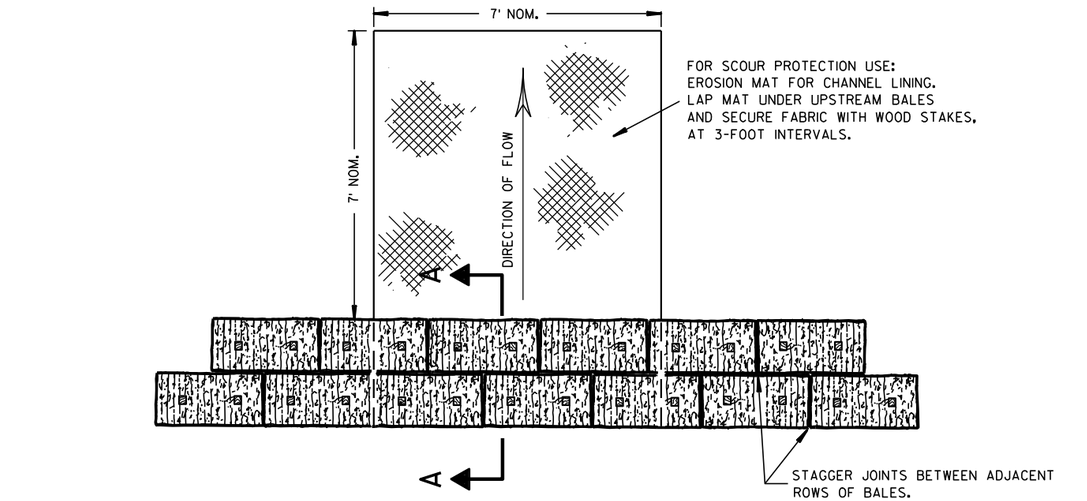
FHWA

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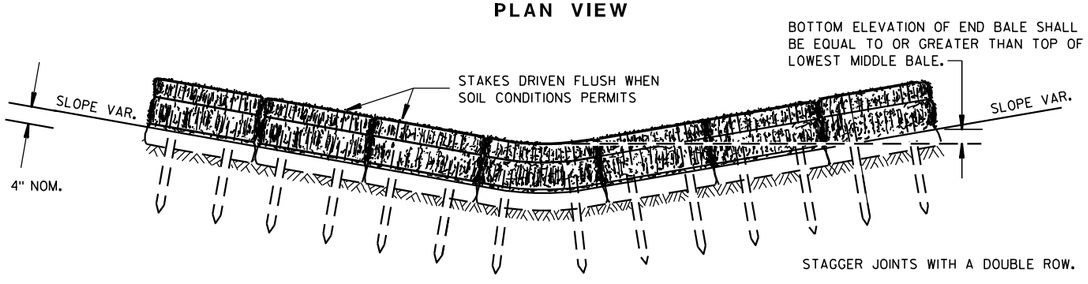
SDD 08D22 - 01



SECTION A-A



PLAN VIEW



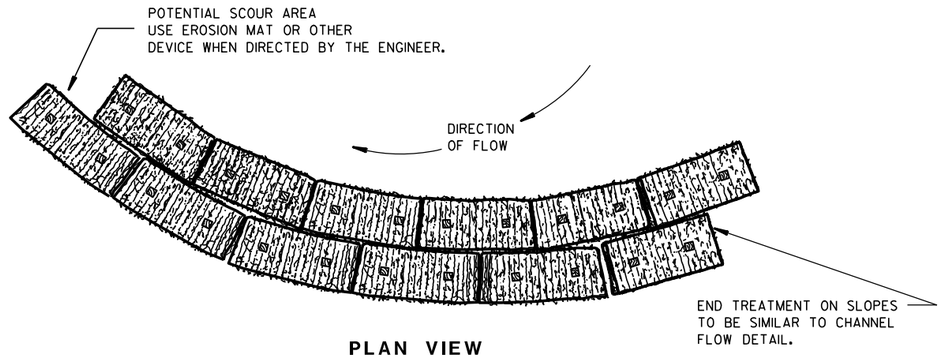
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

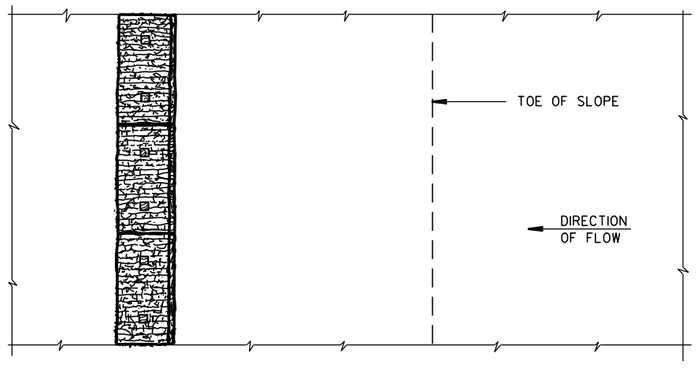
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

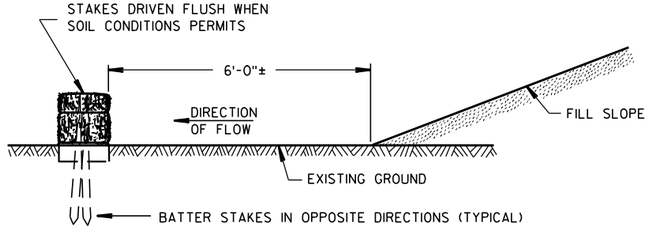


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

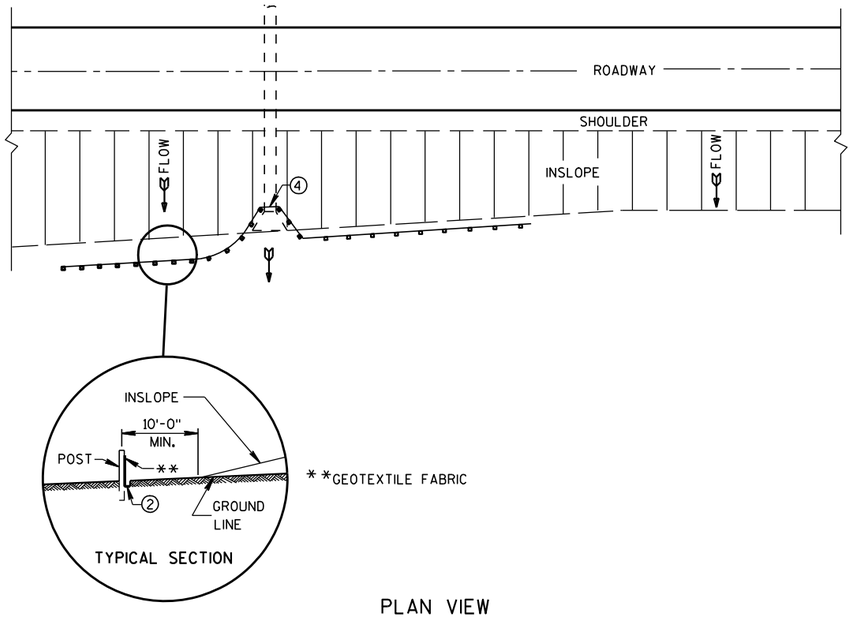
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 E 8-3

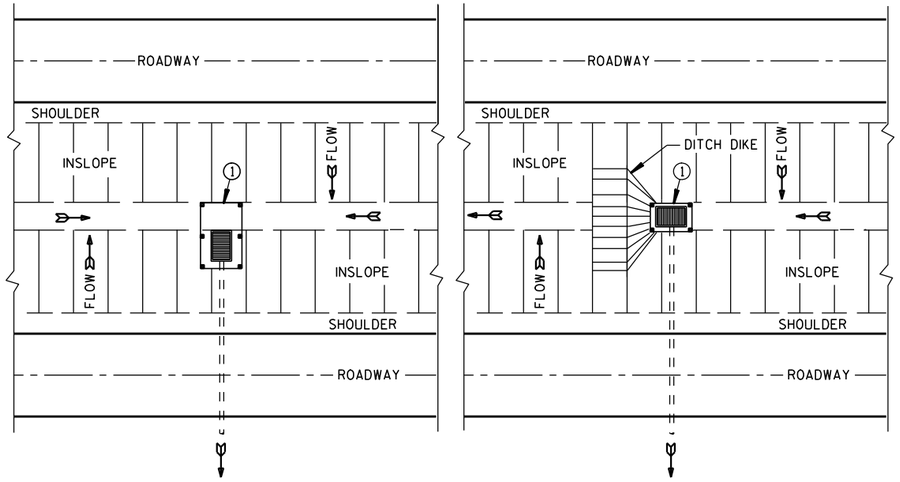
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



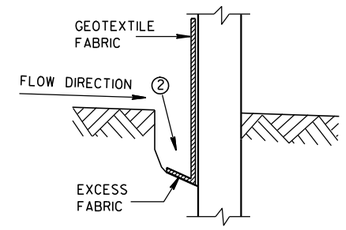
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

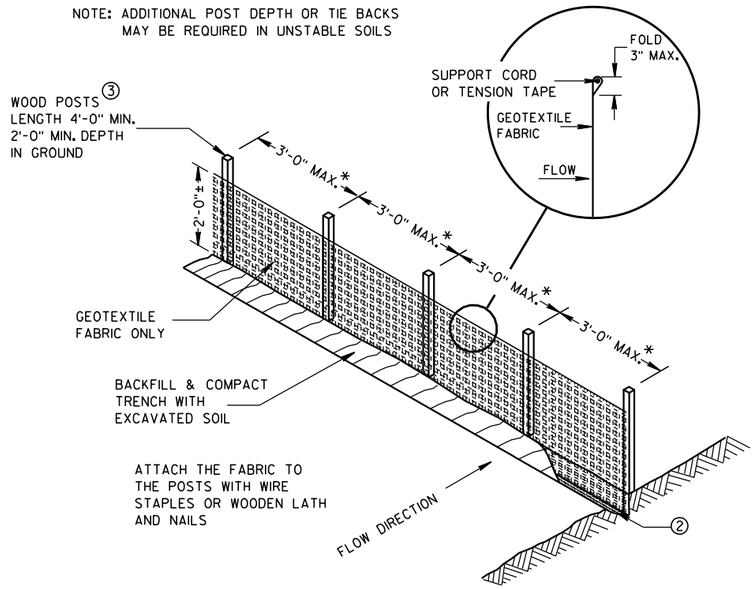
GENERAL NOTES

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

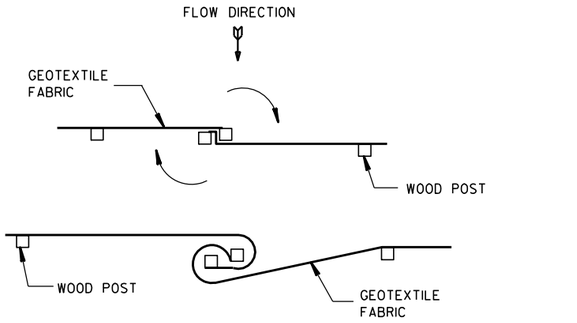
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



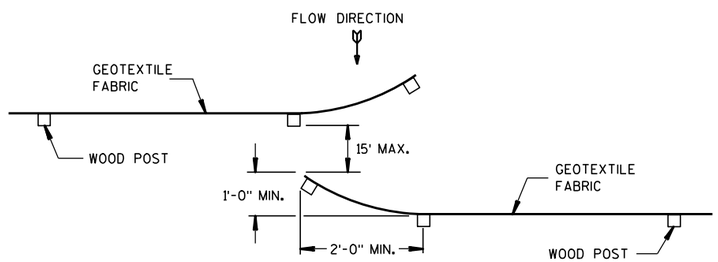
TRENCH DETAIL



SILT FENCE

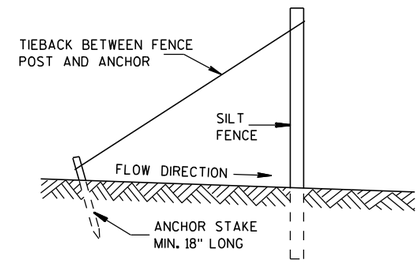


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

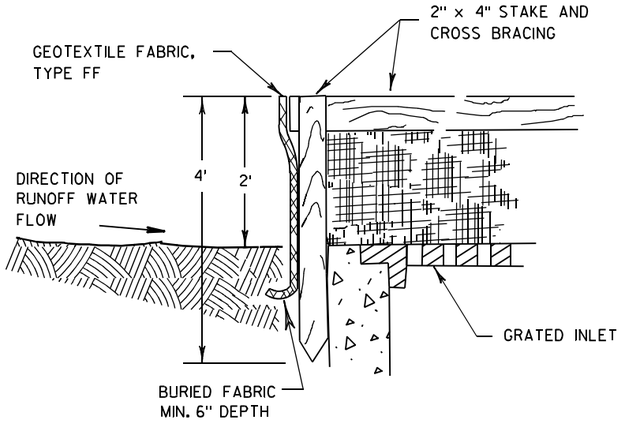
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

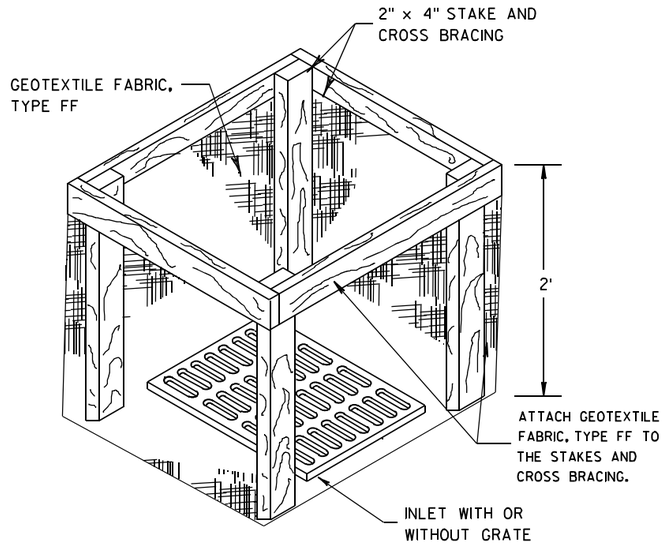
6

S.D.D. 8 E 9-6

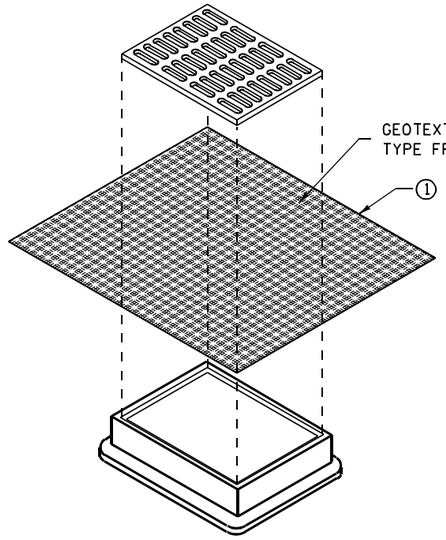
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S.D.D. 8 E 9-6



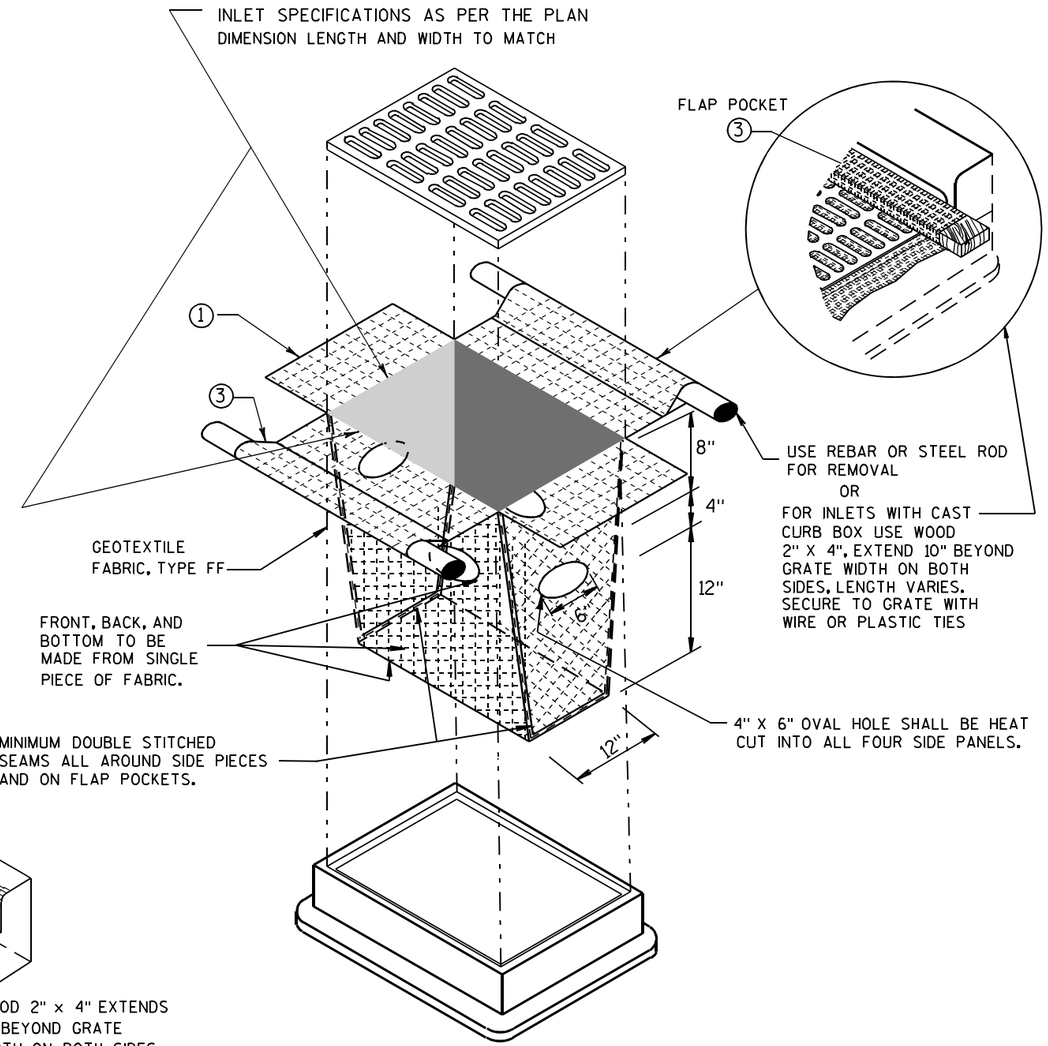


INLET PROTECTION, TYPE A



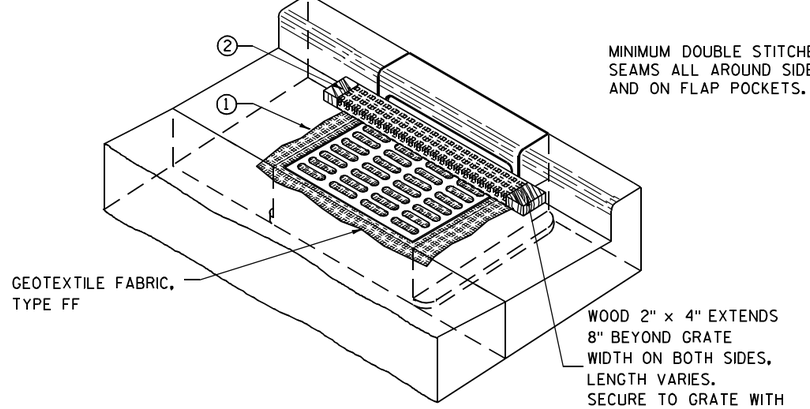
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

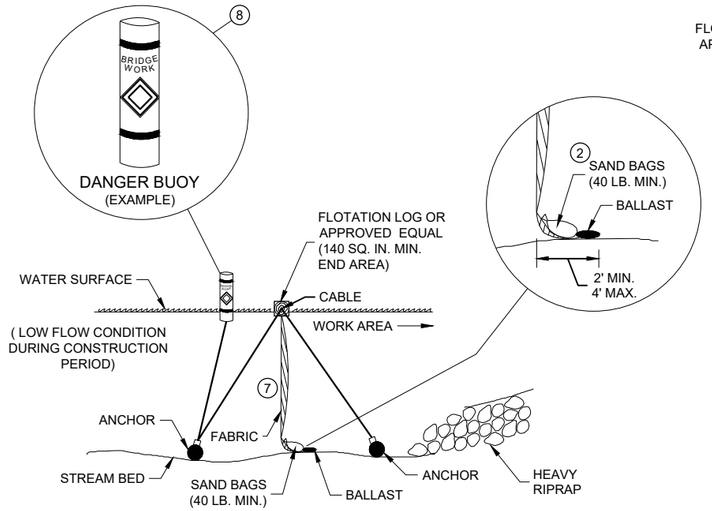
APPROVED

10/16/02
DATE

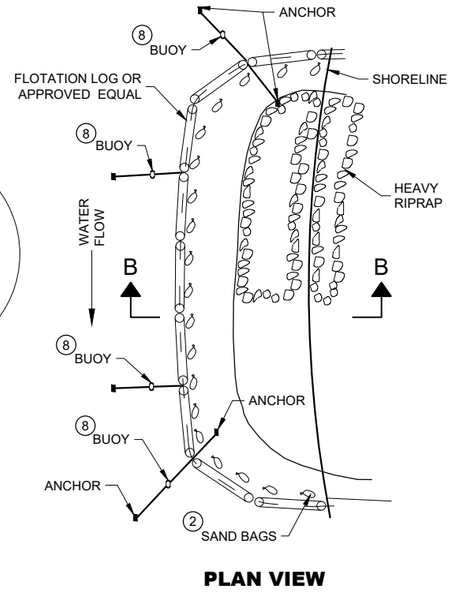
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2

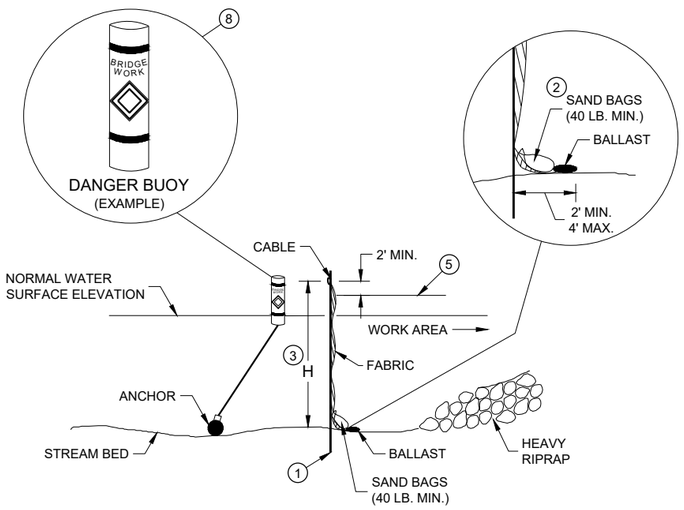


SECTION B - B

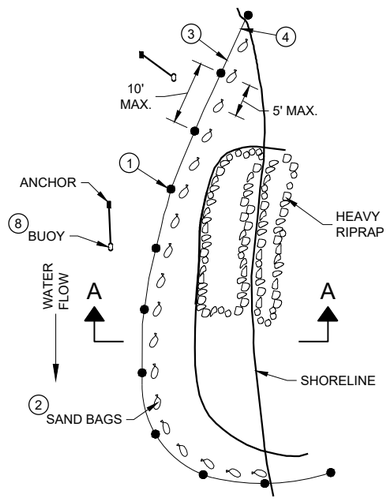


PLAN VIEW

TURBIDITY BARRIER - FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A - A



PLAN VIEW

TURBIDITY BARRIER - STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

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

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

(1) DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

(2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

(3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.

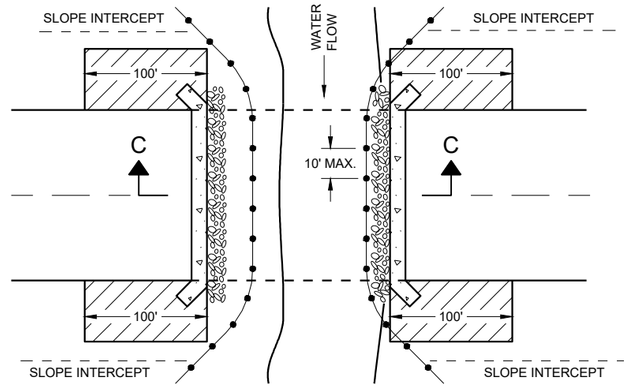
(4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

(5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.

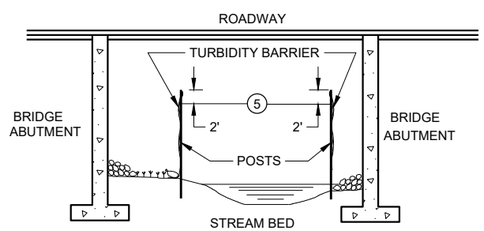
(6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.

(7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

(8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

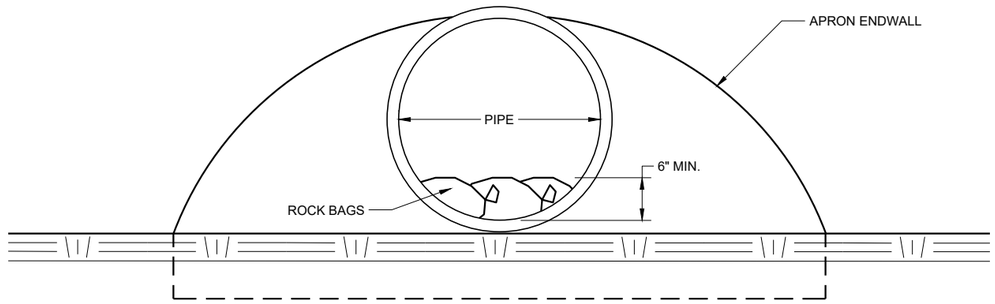
TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

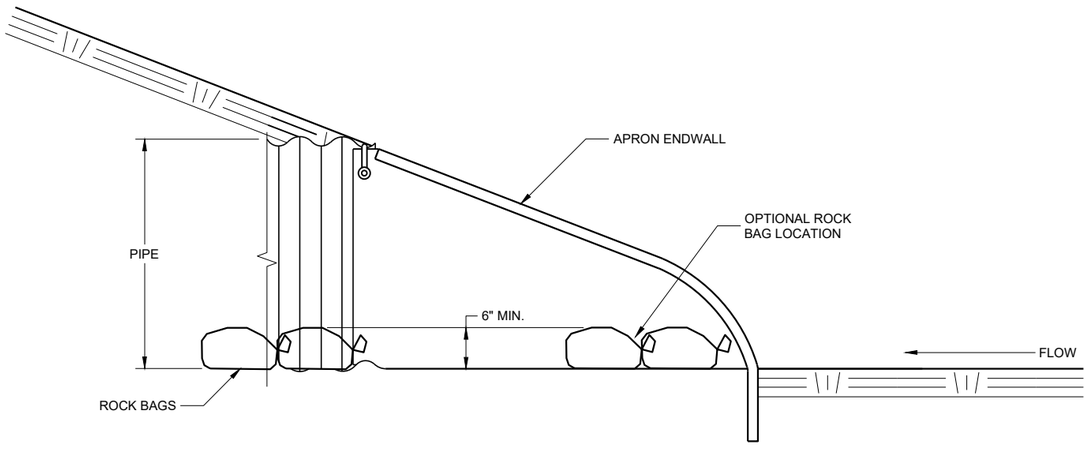
APPROVED
6/4/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOI
ENGINEER

FHWA

6
SDD 08E11 - 02



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

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SDD 08E15 - 01

METAL APRON ENDWALLS

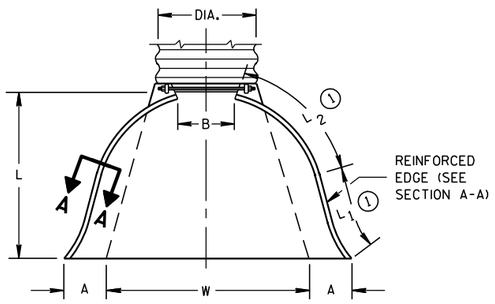
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

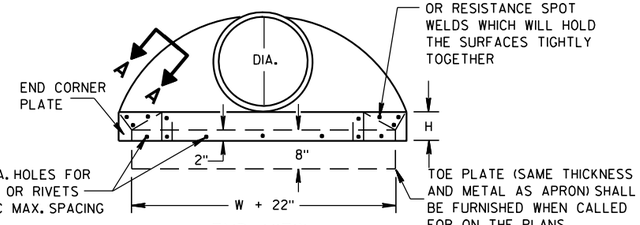
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

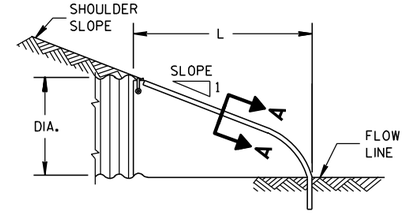
*MINIMUM
**MAXIMUM



PLAN VIEW

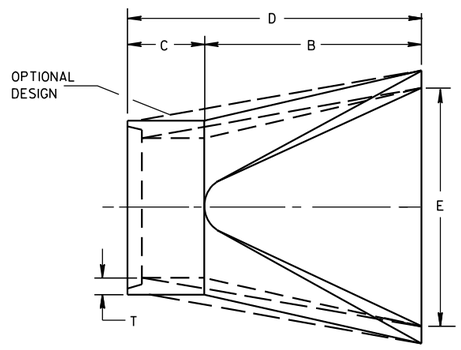


END VIEW

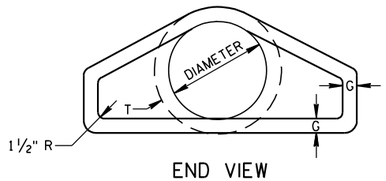


SIDE ELEVATION

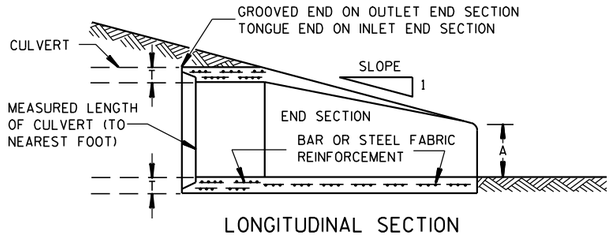
METAL ENDWALLS



PLAN

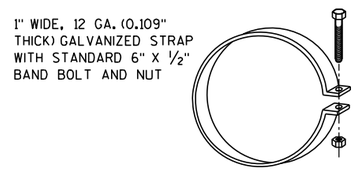


END VIEW



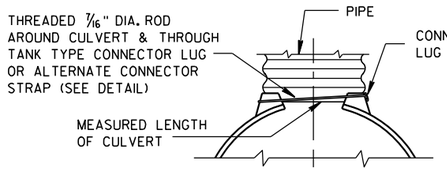
LONGITUDINAL SECTION

CONCRETE ENDWALLS

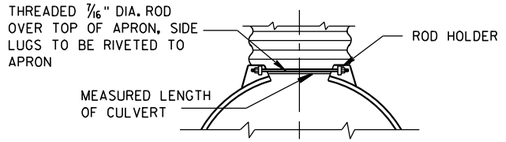


ALTERNATE FOR TYPE 1 CONNECTION

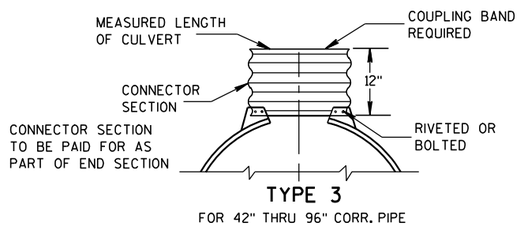
END SECTION CONNECTOR STRAP



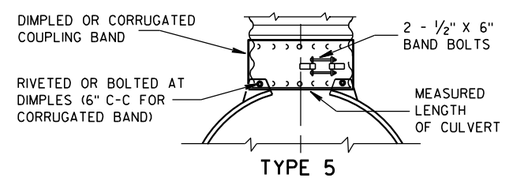
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

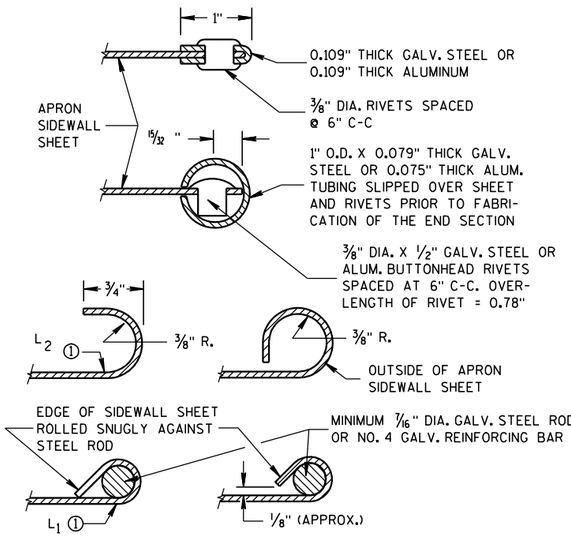
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

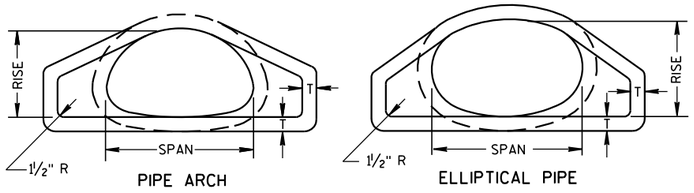
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

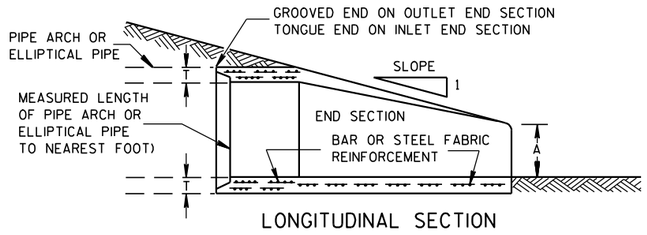
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

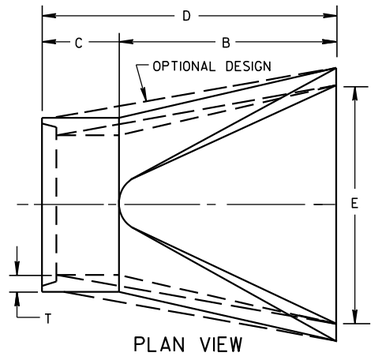
S.D.D. 8 F 1-11



END VIEW

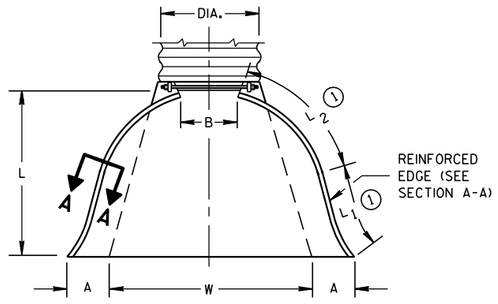


LONGITUDINAL SECTION

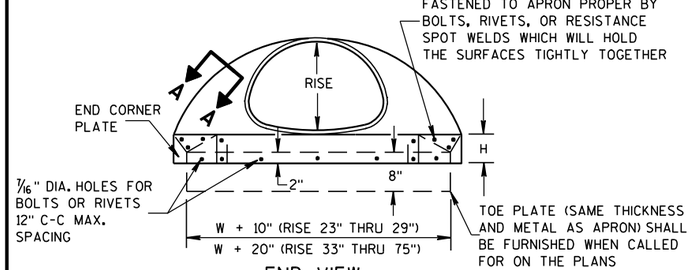


PLAN VIEW

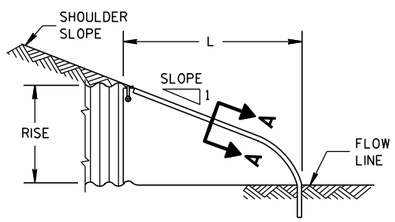
CONCRETE ENDWALLS



PLAN VIEW

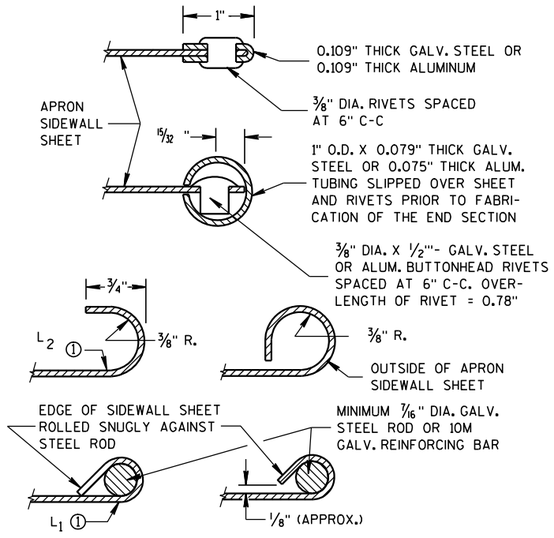


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

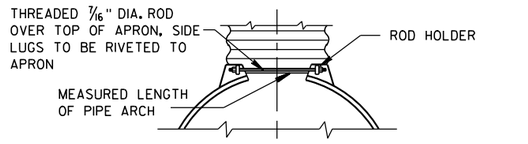
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

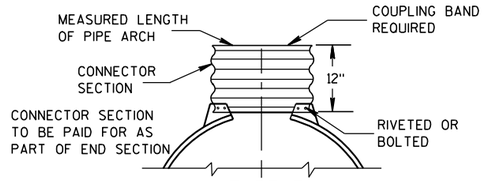
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48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

**NOMINAL SIZE



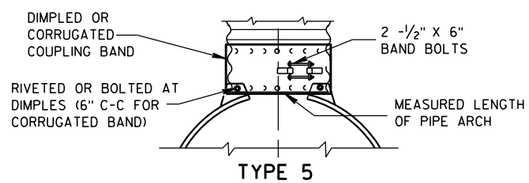
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

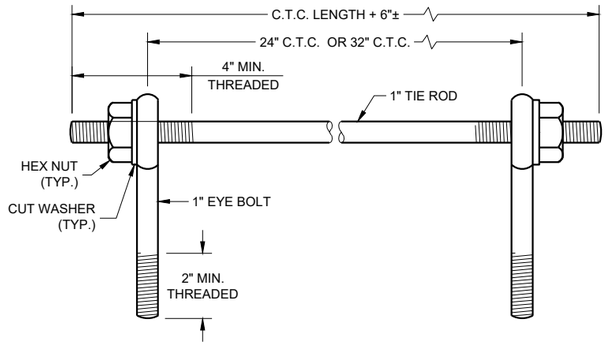
FHWA

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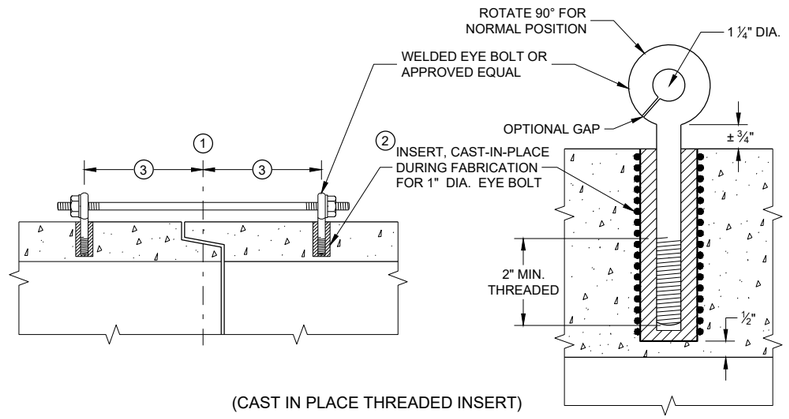
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

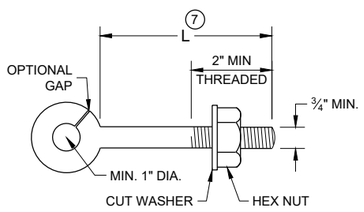
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

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

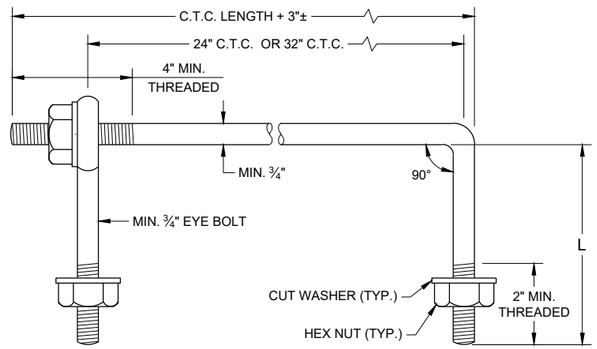
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

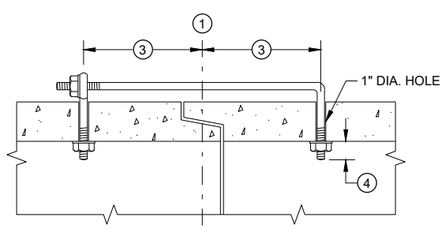


EYE BOLT (7)

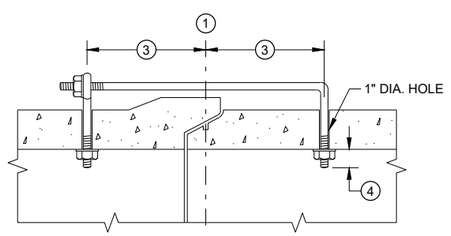
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

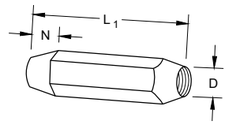
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

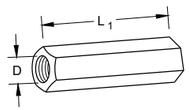
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



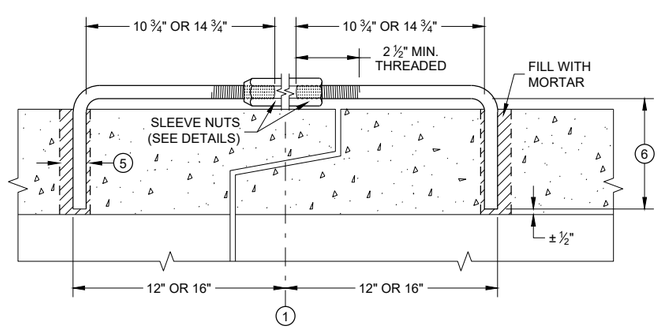
TAPERED



PLAIN

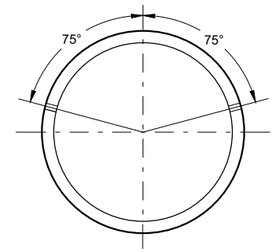
RIGHT AND LEFT THREADS

SLEEVE NUTS



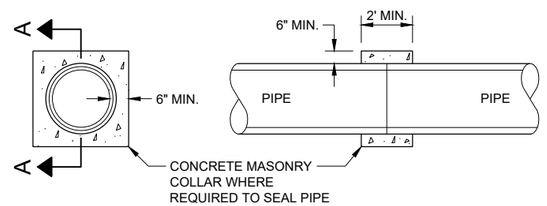
LONGITUDINAL SECTION

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

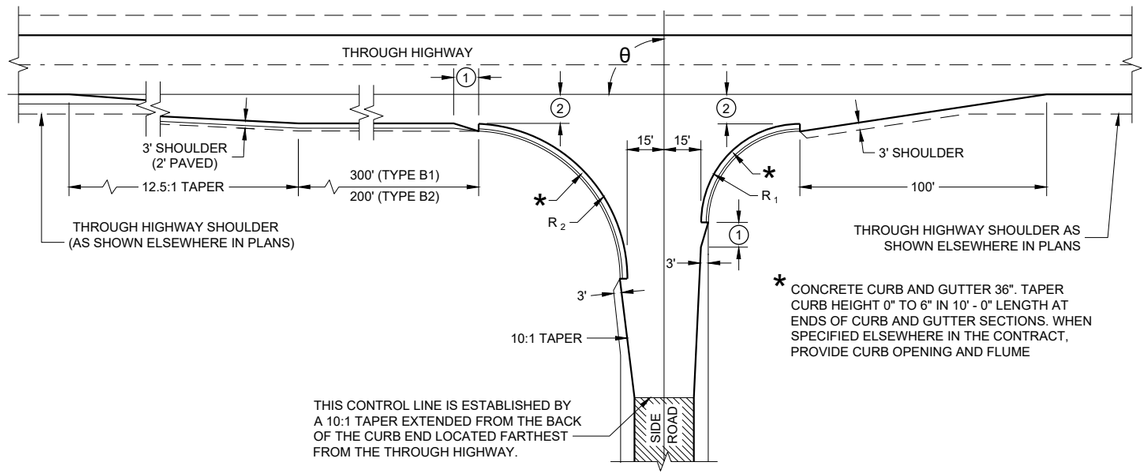
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

SDD 08F04 - 08

SDD 08F04 - 08



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

TYPE "B1" AND "B2"

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

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

GENERAL NOTES

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

SIDE ROAD SURFACING NOTE

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

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

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

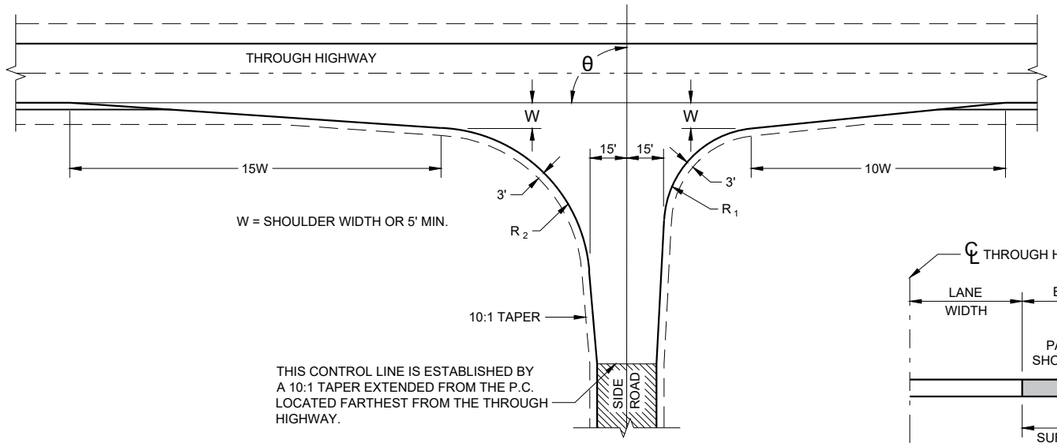
(1) 10-FT TYPICAL.

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

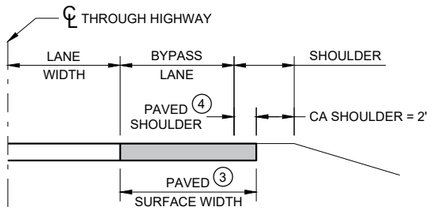
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

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

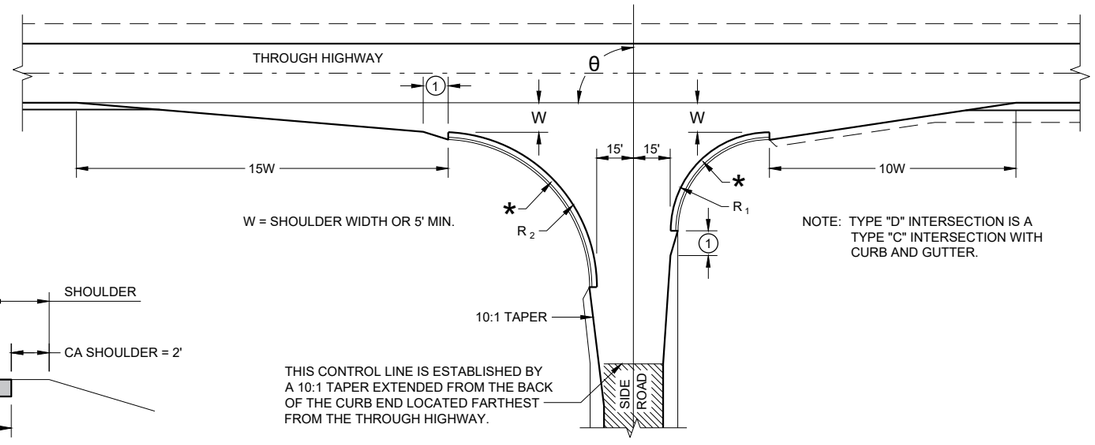
(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



TYPE "C"

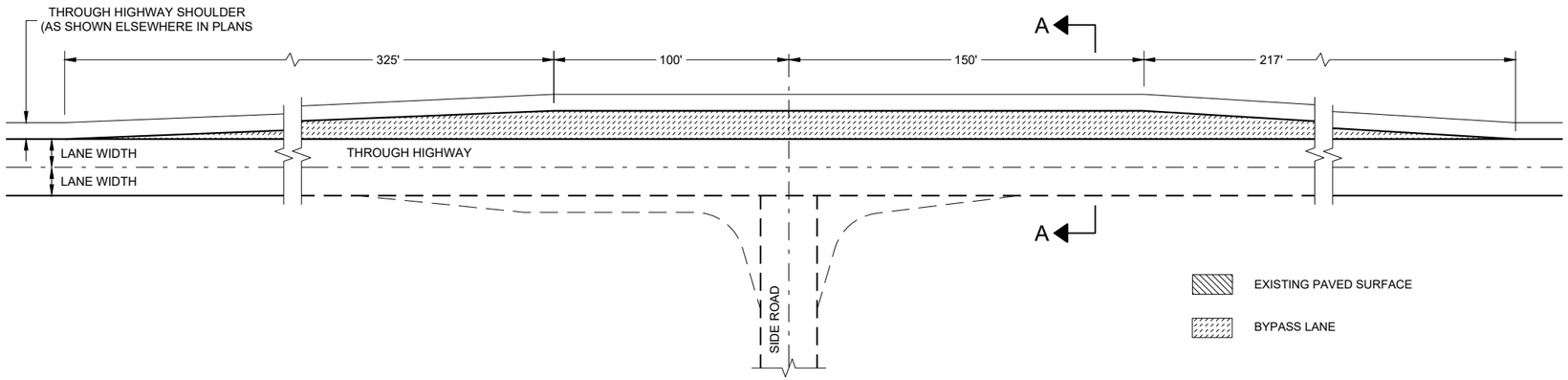


SECTION A - A
(SHOWING BYPASS LANE AND SHOULDER)



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

TYPE "D"



TEE INTERSECTION BYPASS LANE DETAIL

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

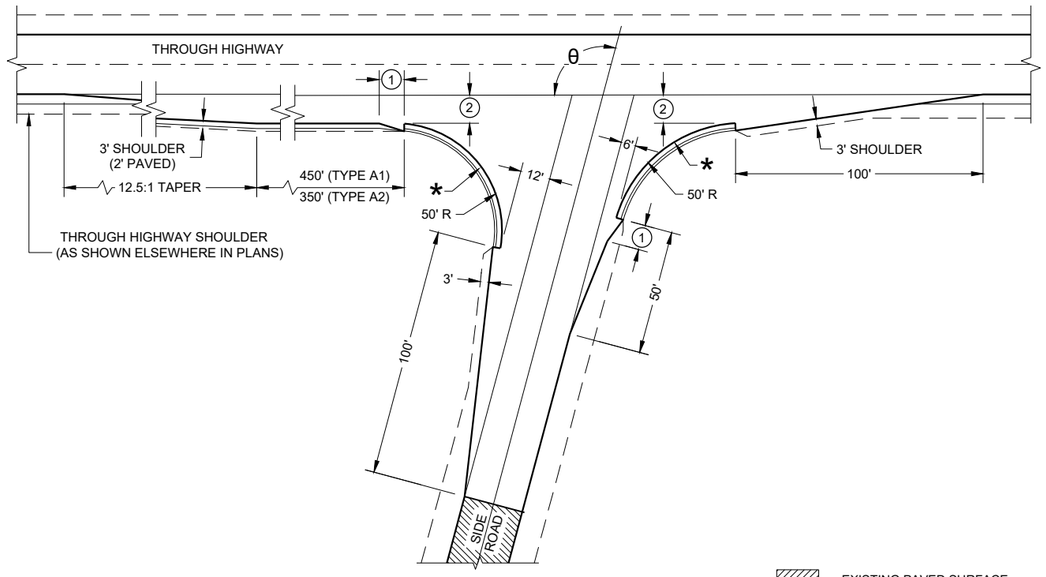
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

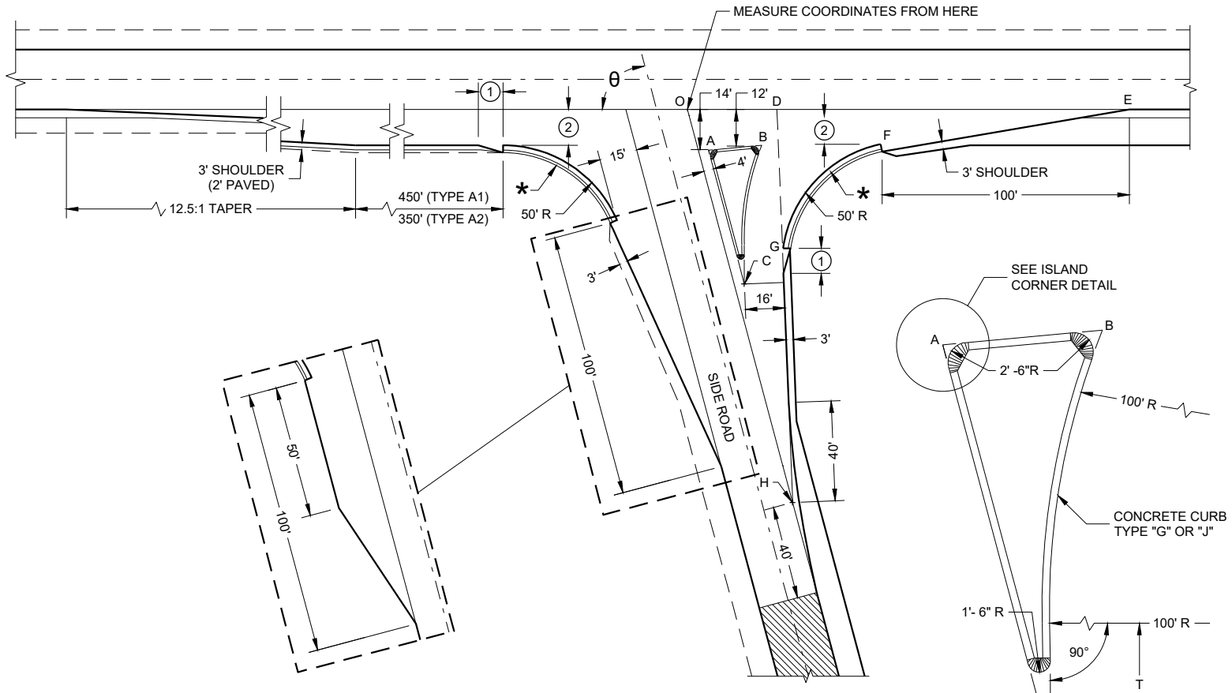
SDD 09A01 - 14a

6

SDD 09A01 - 14a

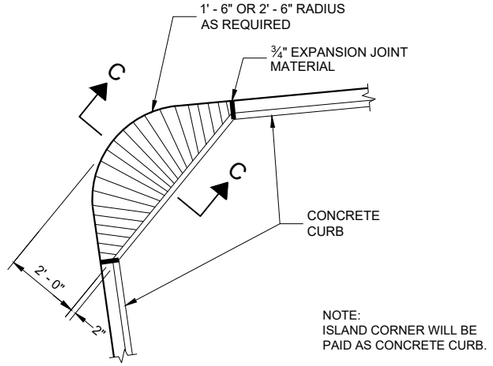


θ = MORE THAN 80°

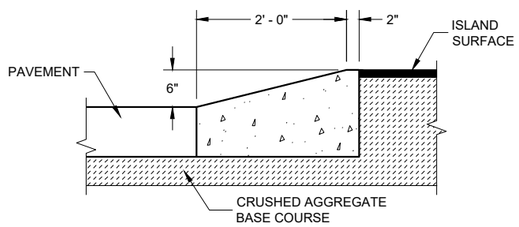


SIDE ROAD WIDENING AND TAPER REQUIRED WHERE THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS

θ = ACUTE ANGLES 80° OR LESS



PLAN VIEW



SECTION C - C

ISLAND CORNER DETAIL

(TO BE CONSTUCTED AT ALL ISLAND CORNERS)

TABLE OF DIMENSIONS FOR VARIABLE SIDE ROAD INTERSECTION ANGLES

(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

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

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022 — DATE
/S/ John Jenkins — ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 09A01 - 14b

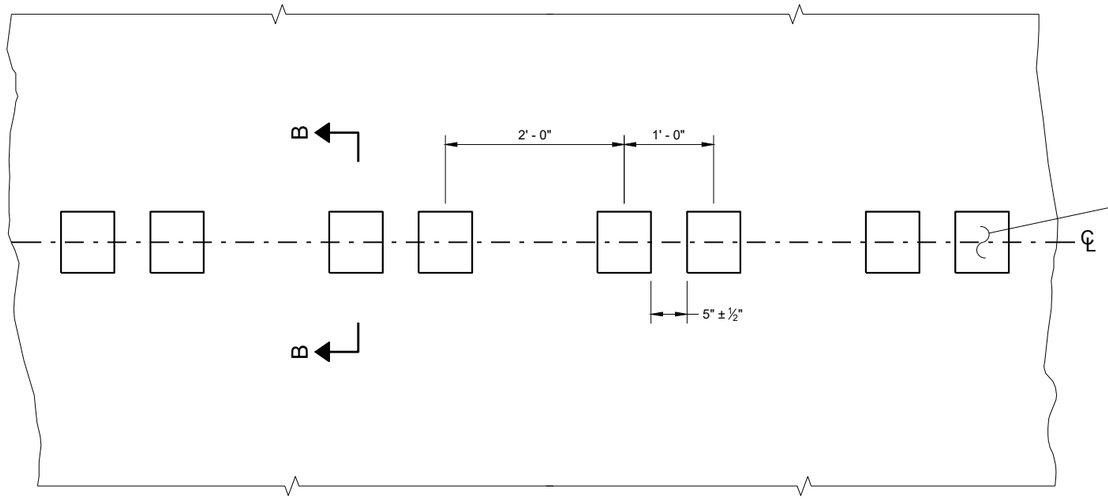
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SDD 09A01 - 14b

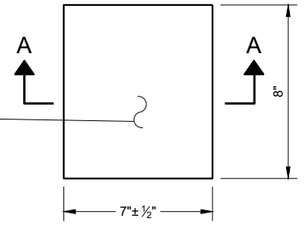
GENERAL NOTES

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

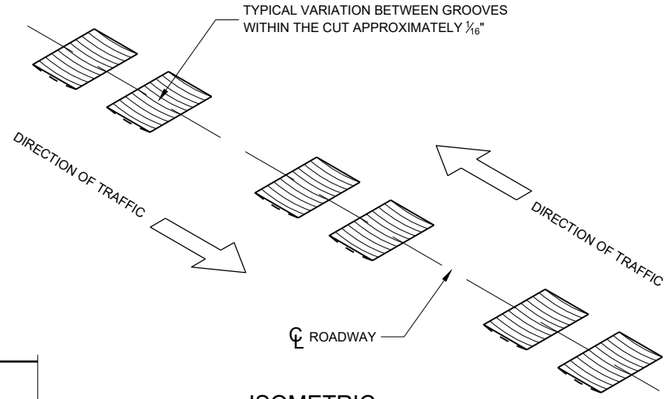
CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



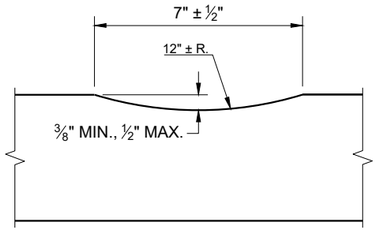
PLAN DETAIL VIEW



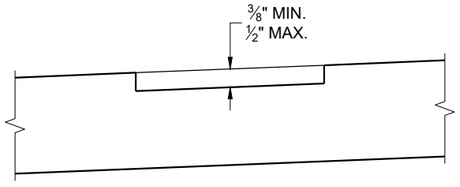
PLAN VIEW
(SINGLE GROOVE)



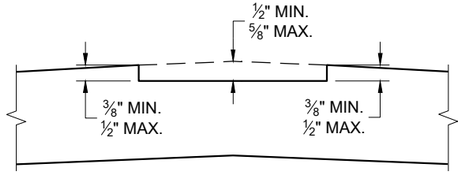
ISOMETRIC



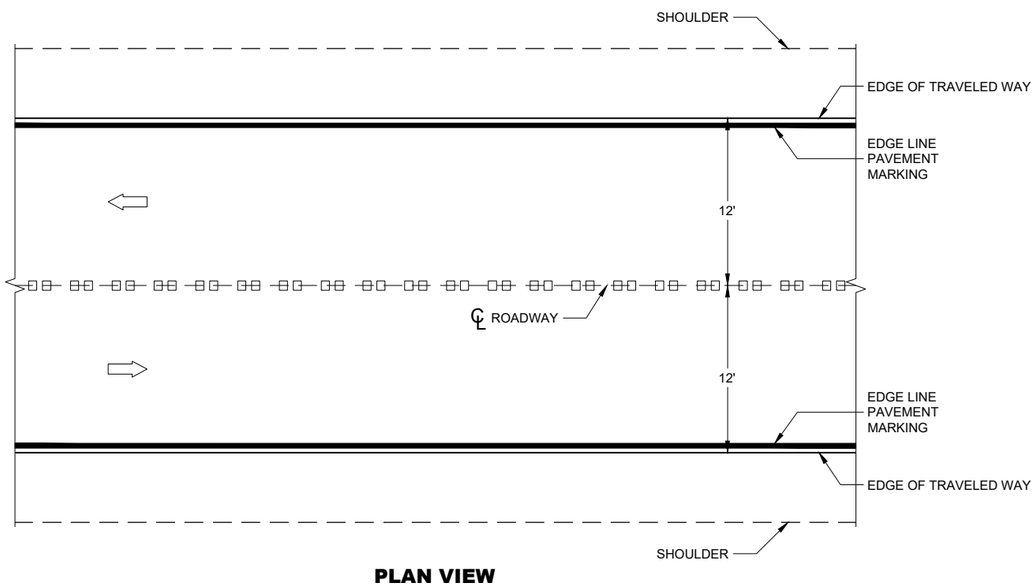
SECTION A - A



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



PLAN VIEW

CENTERLINE RUMBLE STRIPS - ASPHALT

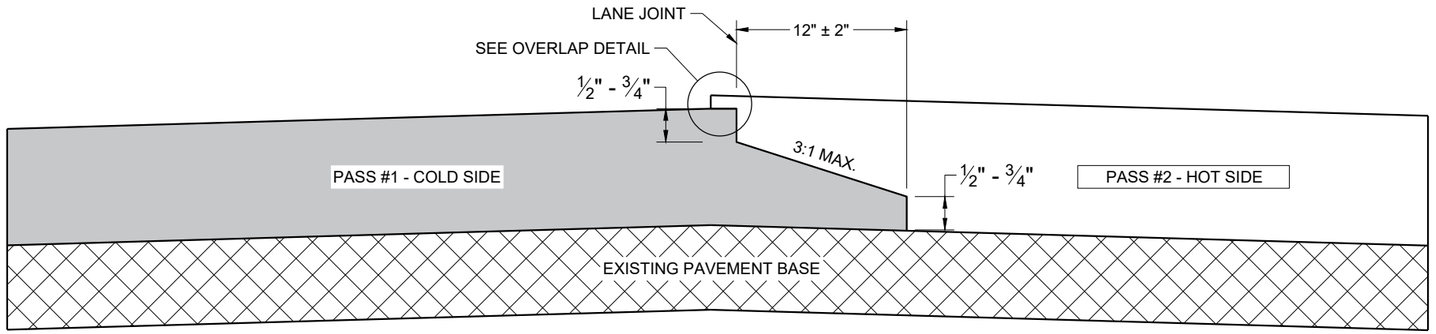
CENTERLINE RUMBLE STRIPS - ASPHALT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTA	180

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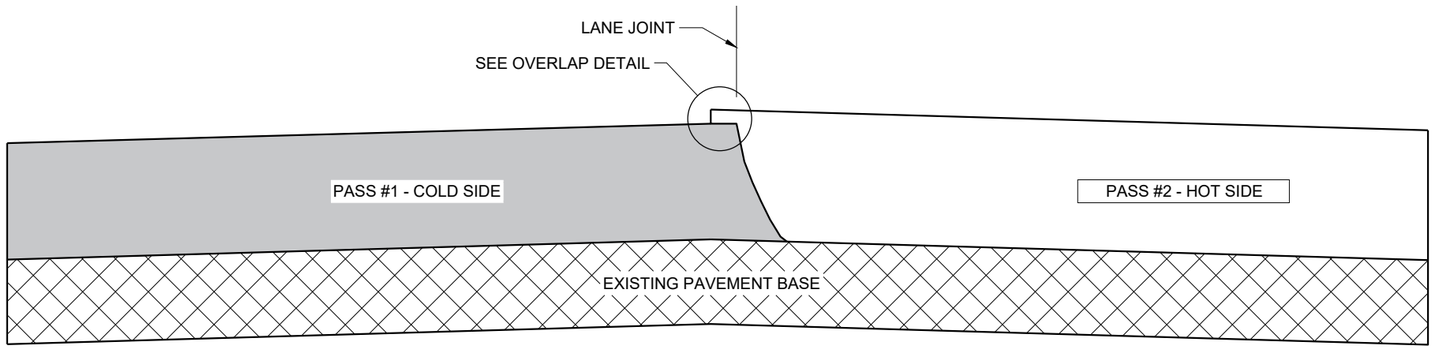
SDD 13A11 - 04a

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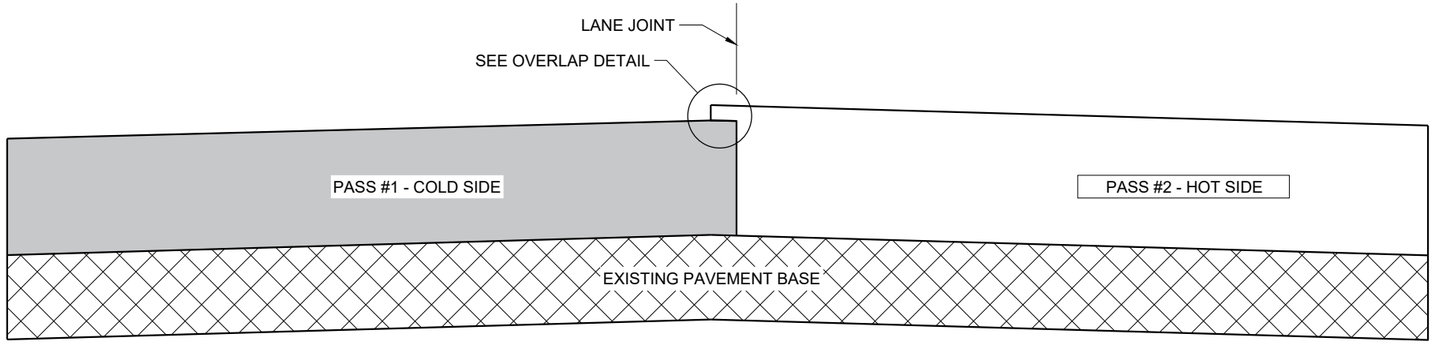
SDD 13A11 - 04a



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

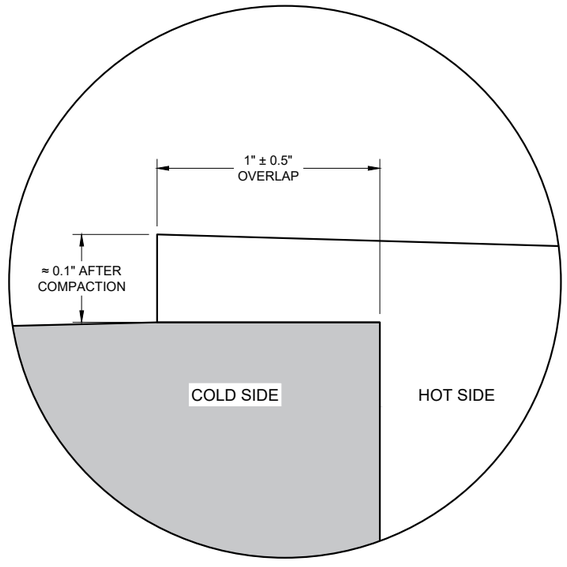
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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)

HMA LONGITUDINAL JOINTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2020 DATE	/S/ Steven Hefel HMA PAVEMENT ENGIN

FHWA

6

SDD 13C19 - 03

6

SDD 13C19 - 03

BILL OF MATERIALS

NOTE NO.	DESCRIPTION
①	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
②	STEEL TUBE TS 8" X 6" X 0.188", 6'-0"
④	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
⑤	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
⑥	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
⑦	BEARING PLATE
⑧	BCT CABLE ASSEMBLY
⑨	CABLE ANCHOR BOX
⑩	STRUT & YOKE
⑪	STEEL PLATE BEAM, END PANEL 12 GA.
⑫	STEEL PLATE BEAM: 12 GA. 13'-6½"
⑬	IMPACT HEAD
⑭	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS.

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 AND 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

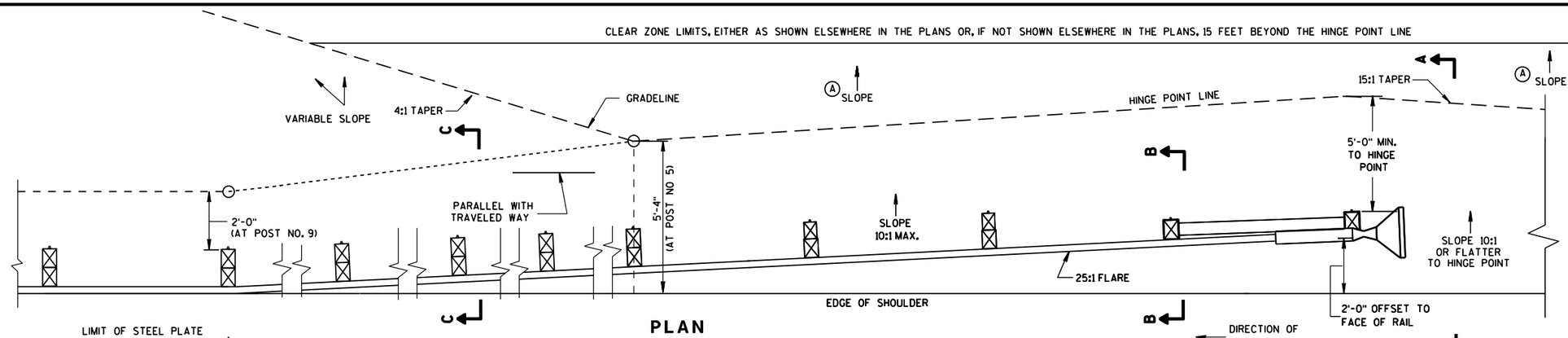
(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 3 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

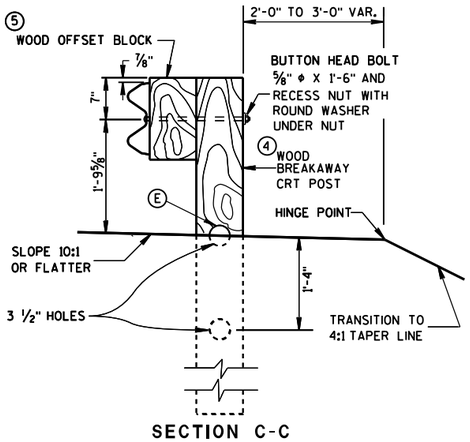
(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

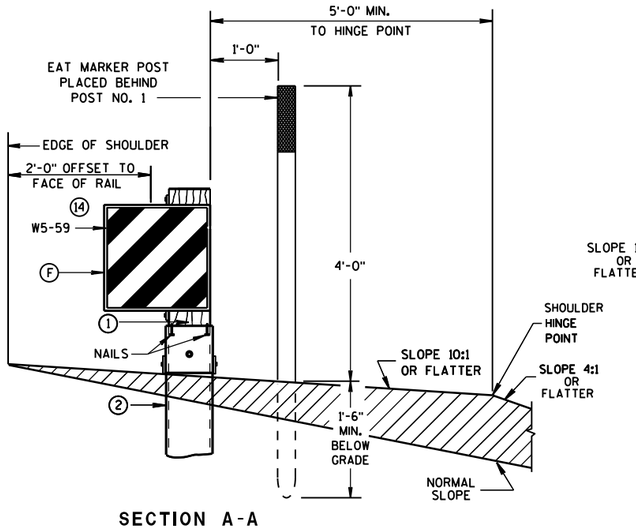
STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

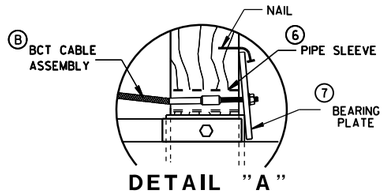
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

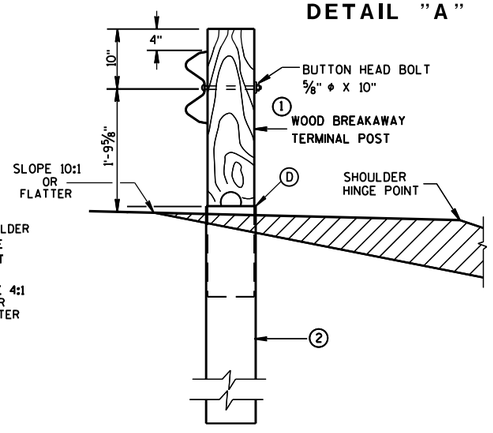
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

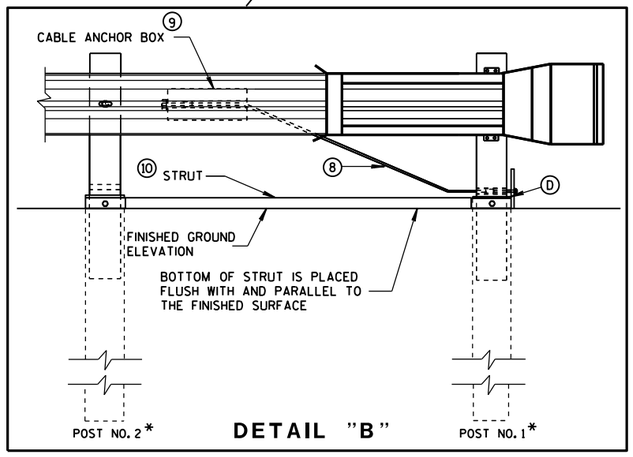










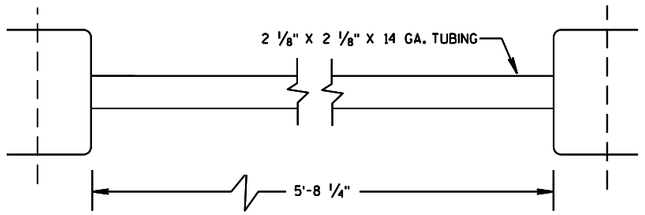


STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

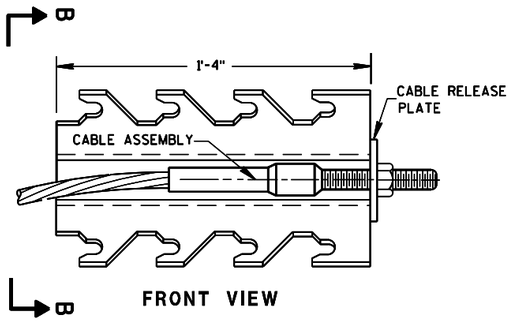
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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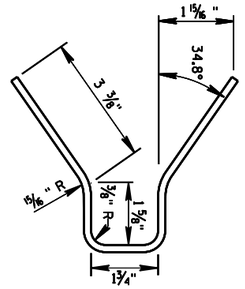
S.D.D. 14 B 24-9a



⑩ STRUT DETAIL

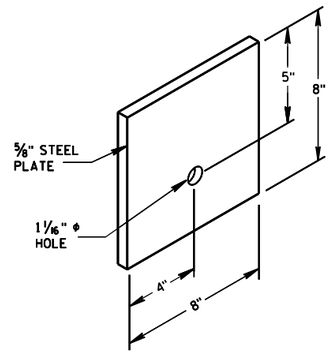


FRONT VIEW



SECTION B-B

⑨ CABLE ANCHOR BOX



⑦ STEEL BEARING PLATE

6

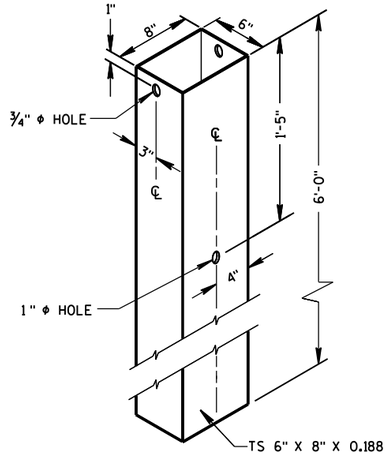
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S.D.D. 14 B 24-9b

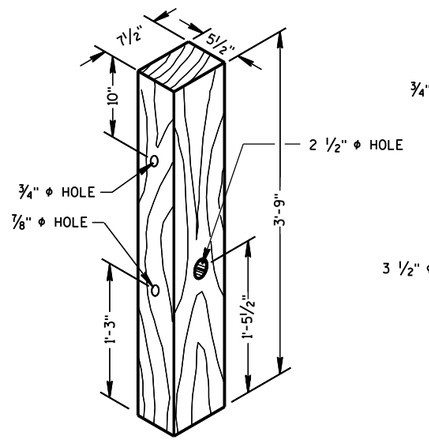
S.D.D. 14 B 24-9b

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

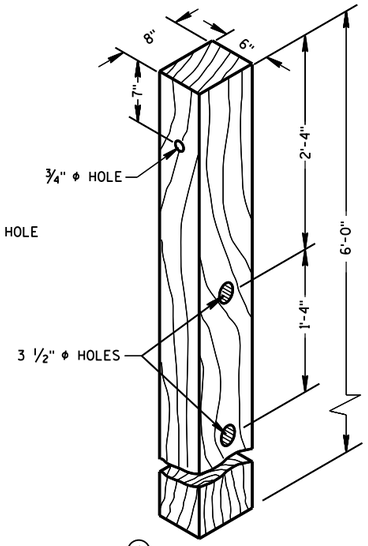
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



② 72" STEEL TUBE
(POSTS NO. 1-2



① TERMINAL POST

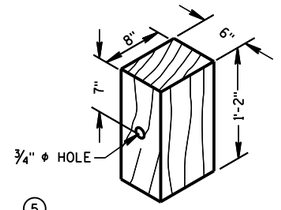


④ CRT POST
(POSTS NO'S 5-8

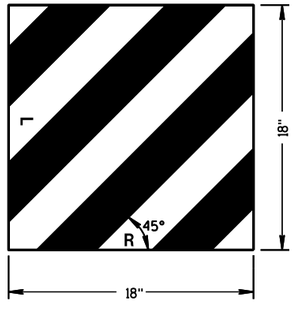
WOOD BREAKAWAY POSTS

GENERAL NOTES

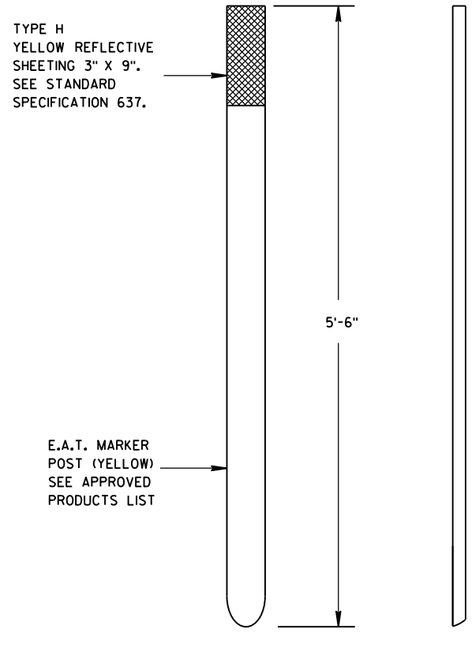
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 1/2" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



⑭ REFLECTIVE SHEETING DETAILS



E.A.T. MARKER POST

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS
UNIT SUPERV...

ENT

6

S.D.D. 14 B 24-9c

6

S.D.D. 14 B 24-9c

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

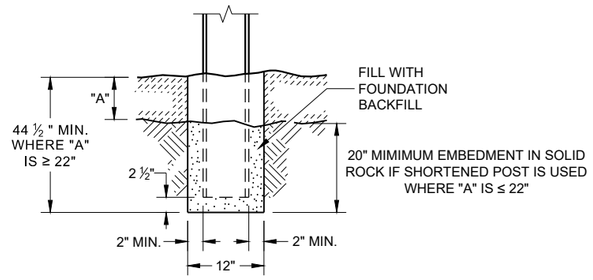
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL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

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

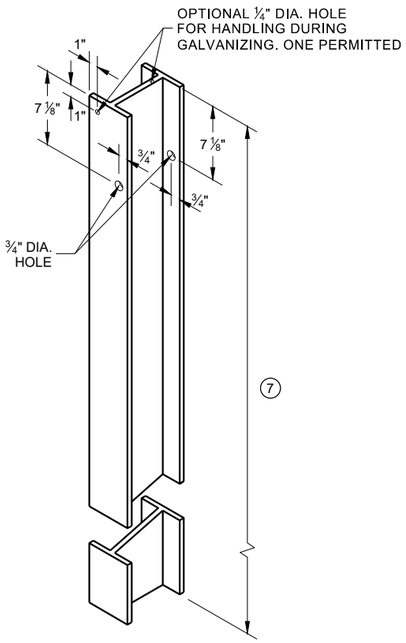
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

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

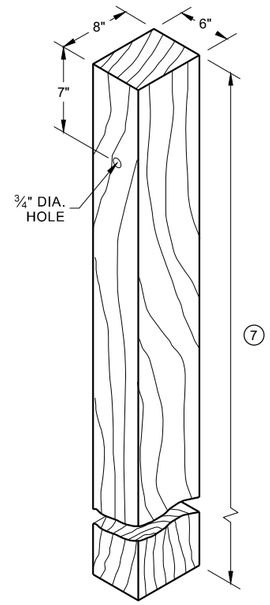
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



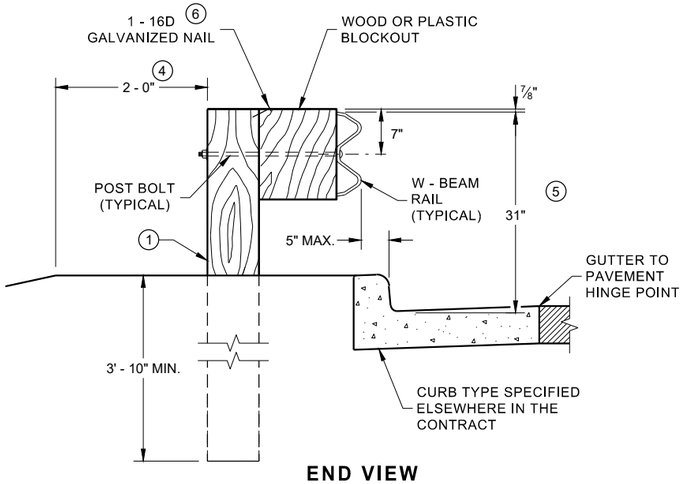
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



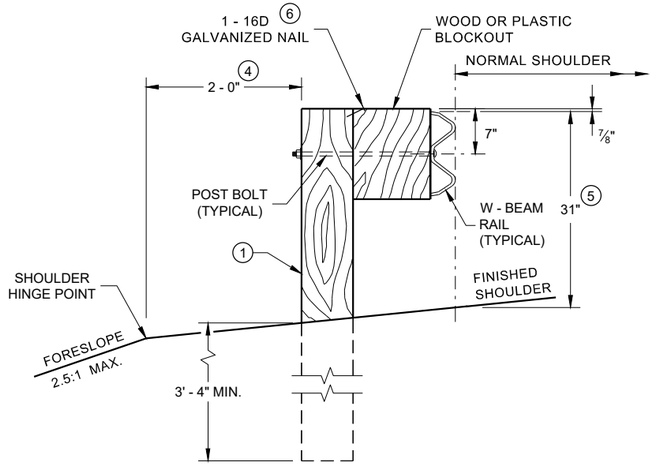
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



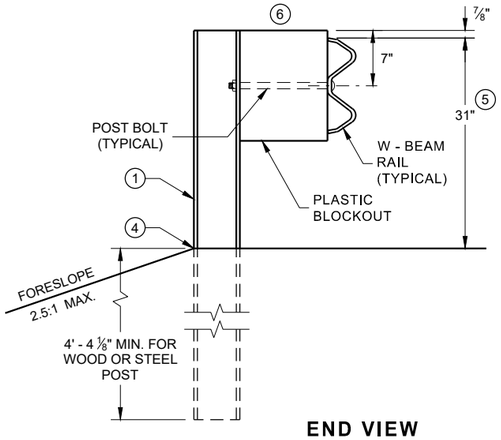
WOOD POST (6" X 8") NOMINAL (1)



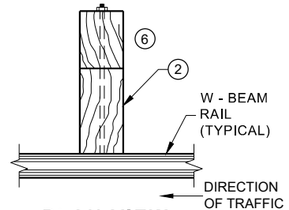
END VIEW
LOCATED ALONG A CURBED ROADWAY



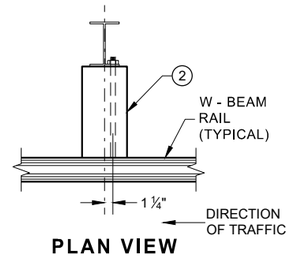
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



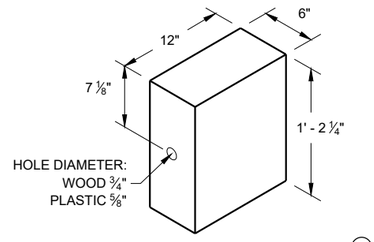
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



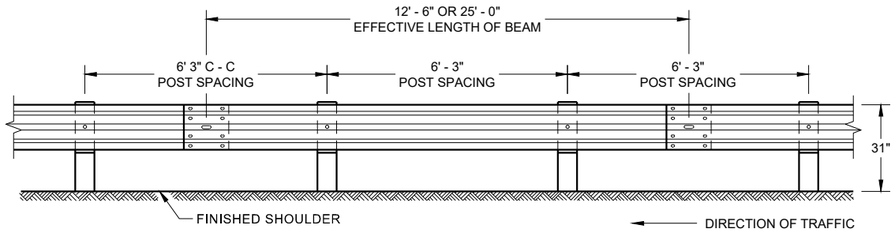
WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

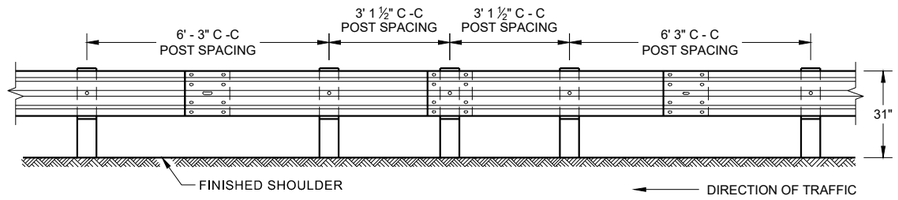
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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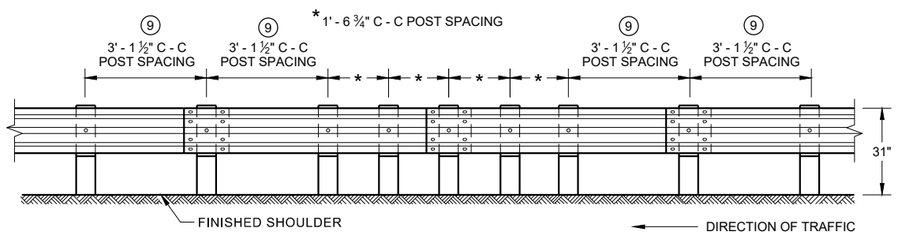
SDD 14B42 - 07a



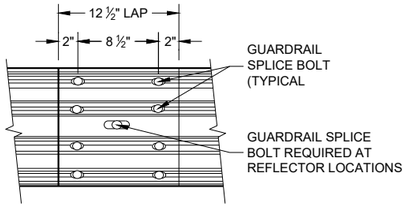
FRONT VIEW
POST SPACING STANDARD INSTALLATION



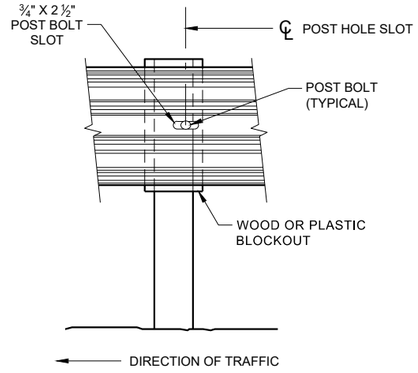
FRONT VIEW
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



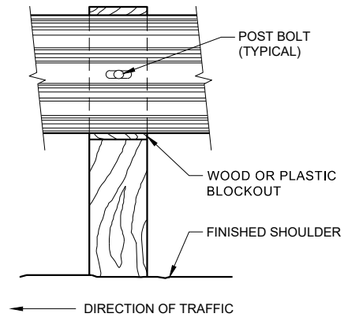
FRONT VIEW
QUARTER POST SPACING (QS)



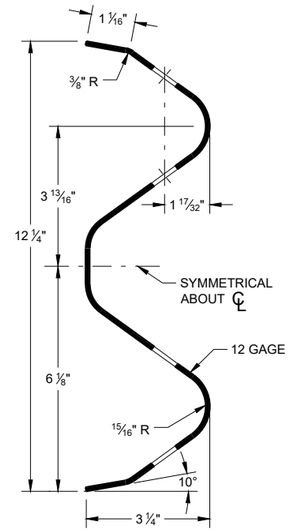
FRONT VIEW
MID-SPAN BEAM SPLICE



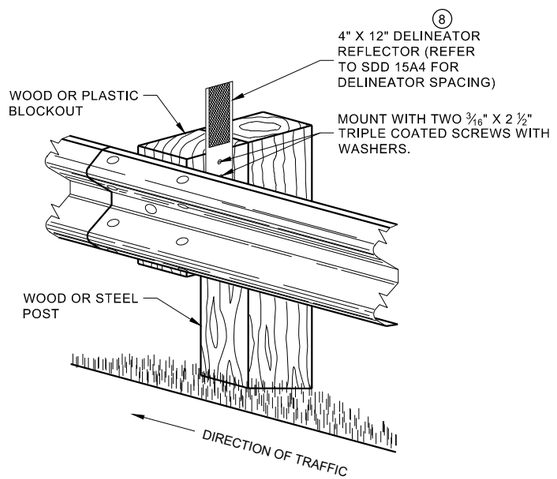
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

GENERAL NOTES

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

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

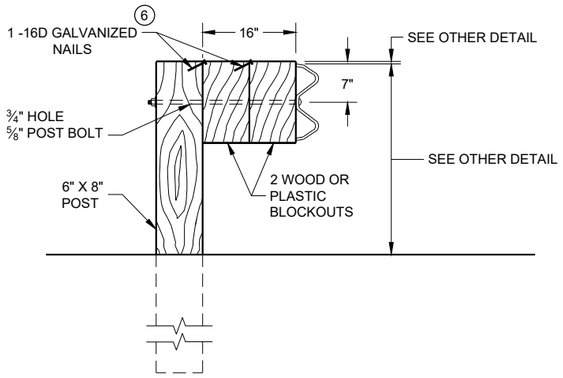
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B42 - 07b
SDD 14B42 - 07b

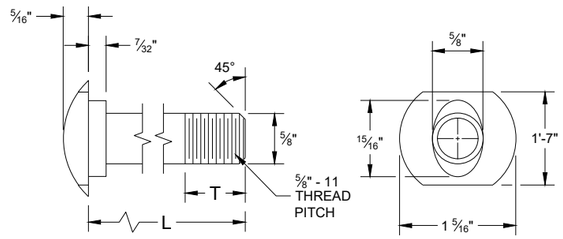


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

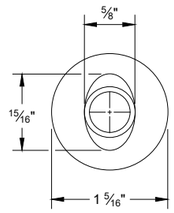
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

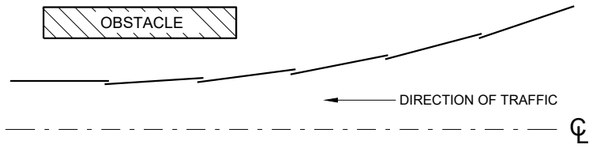


POST BOLT TABLE

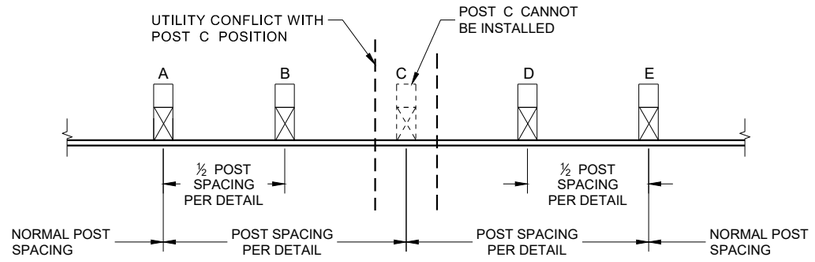
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



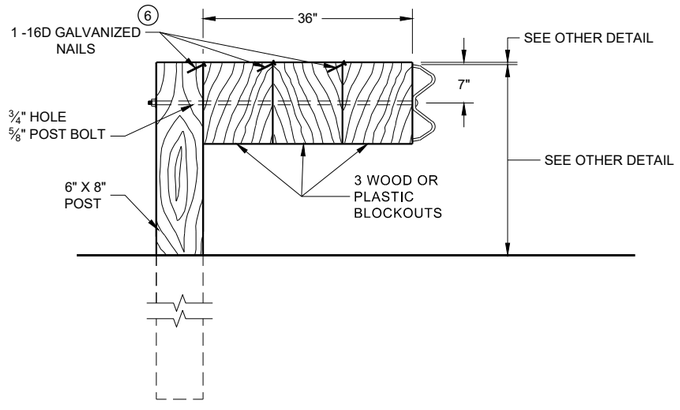
ALTERNATE BOLT HEAD



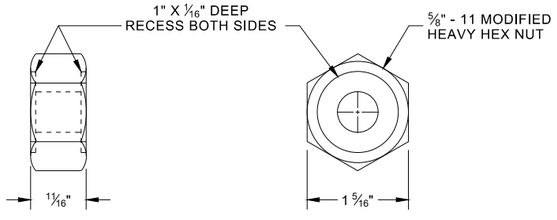
PLAN VIEW
BEAM LAPPING DETAIL



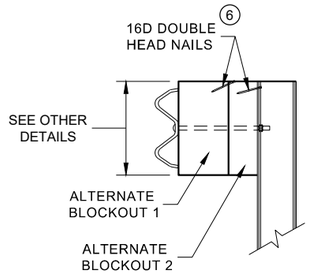
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



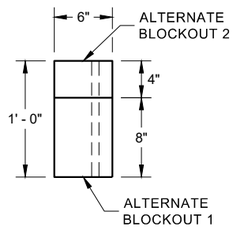
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

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

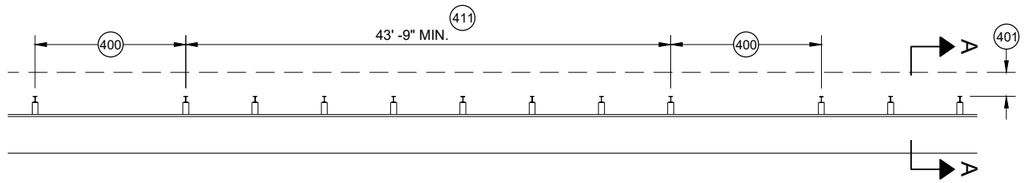
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

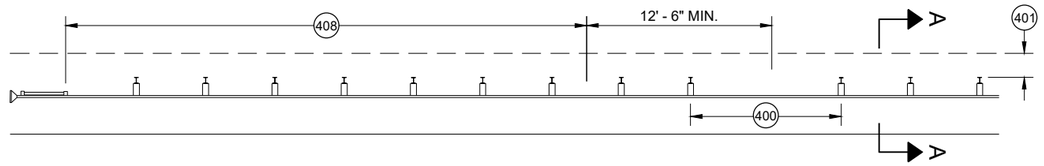
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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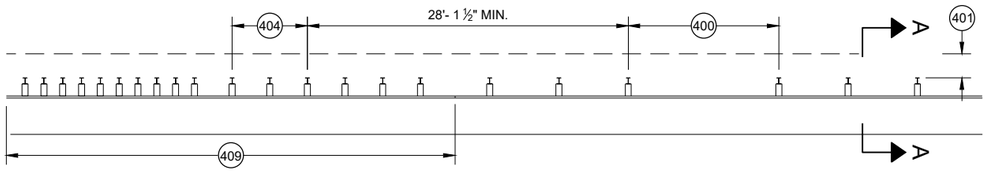
SDD 14B42 - 07c



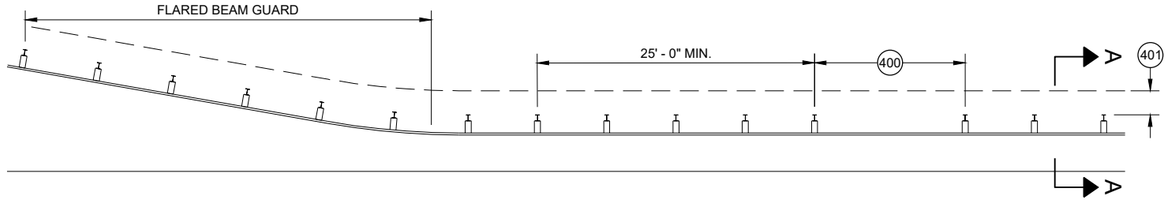
MISSING POST IN MGS GUARDRAIL



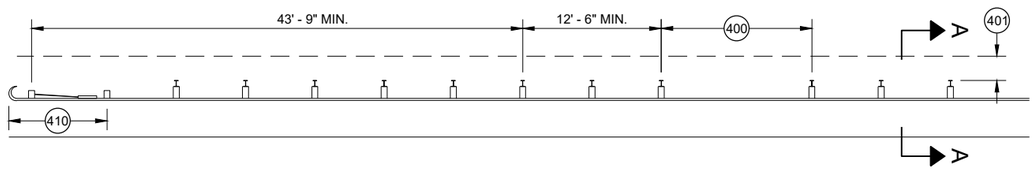
MISSING POST IN MGS GUARDRAIL NEAR EAT



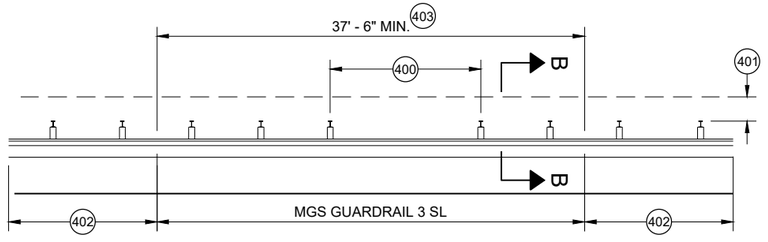
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

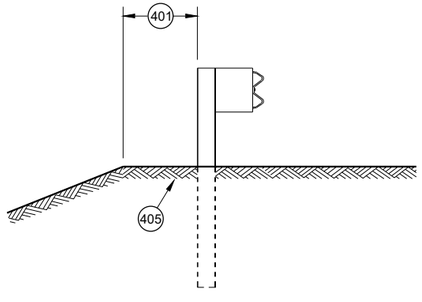


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

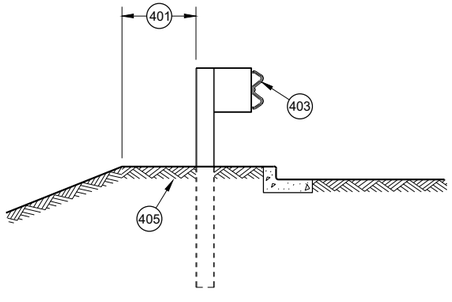


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

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SDD 14B42 - 07d

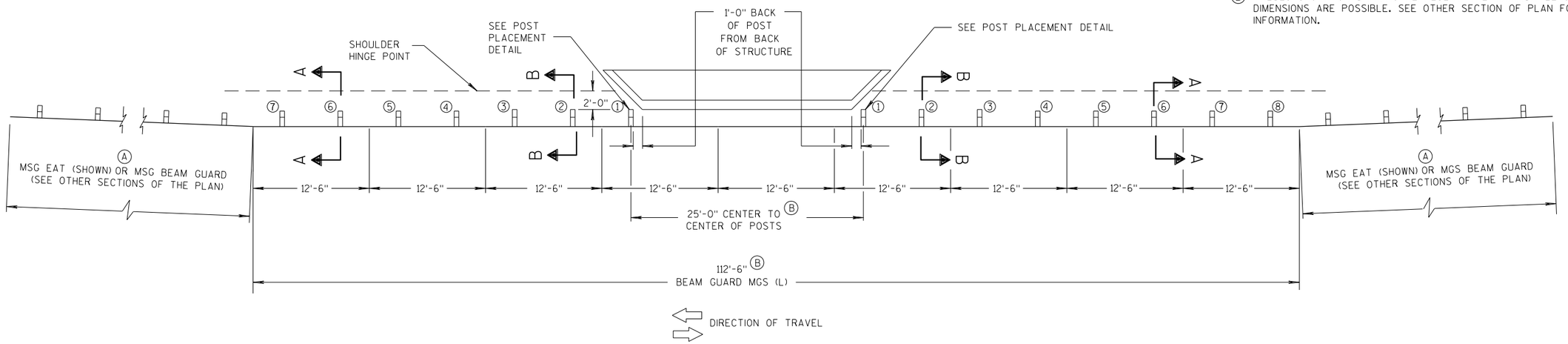
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

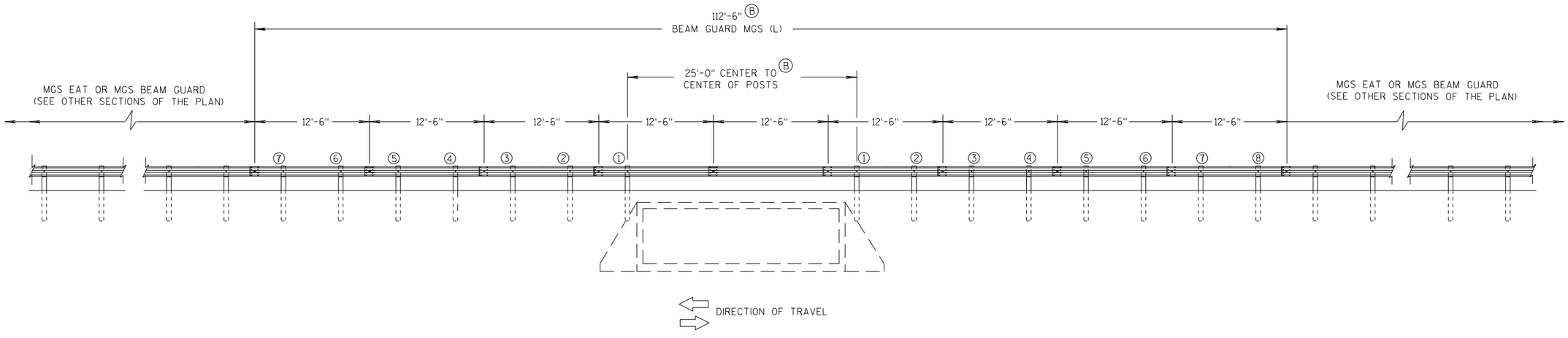
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 14 B 43-4a

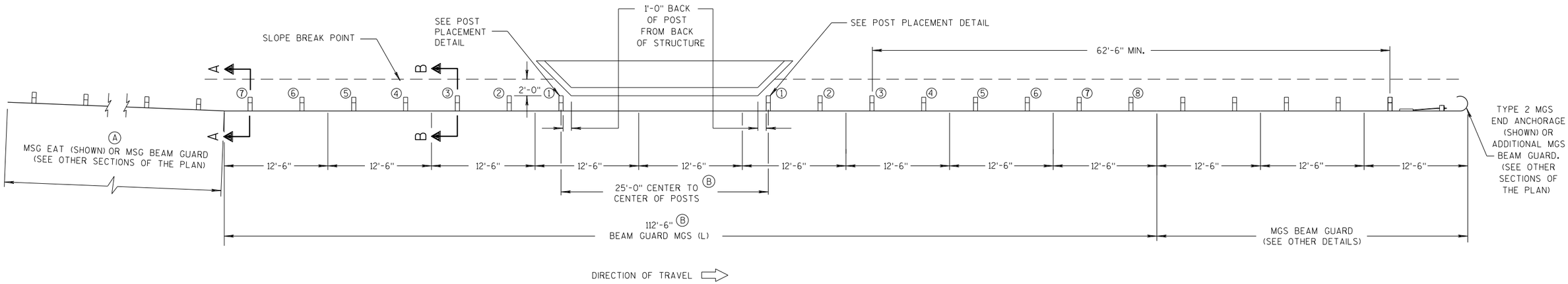
GENERAL NOTES

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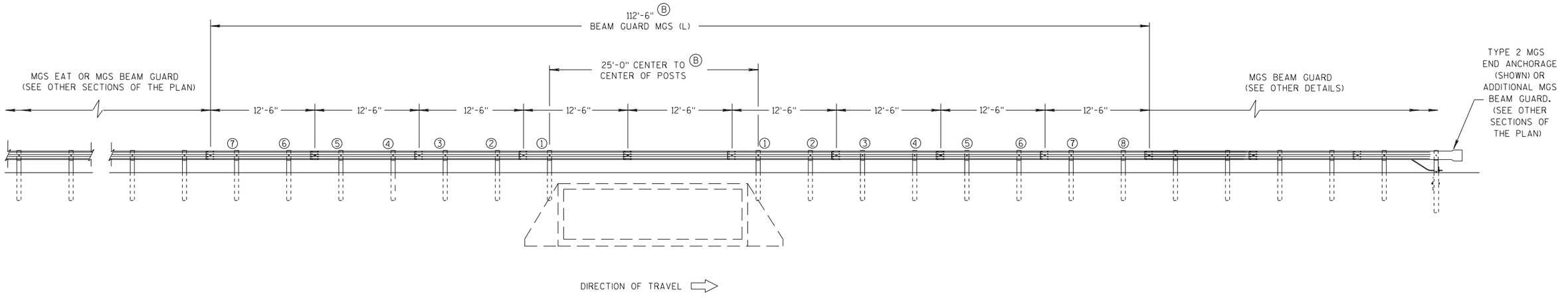
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

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PLAN VIEW



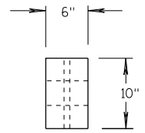
ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

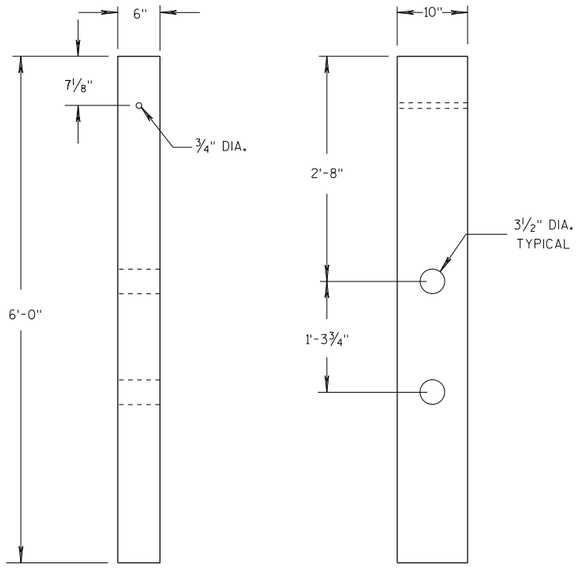
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	190

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S.D.D. 14 B 43-4b

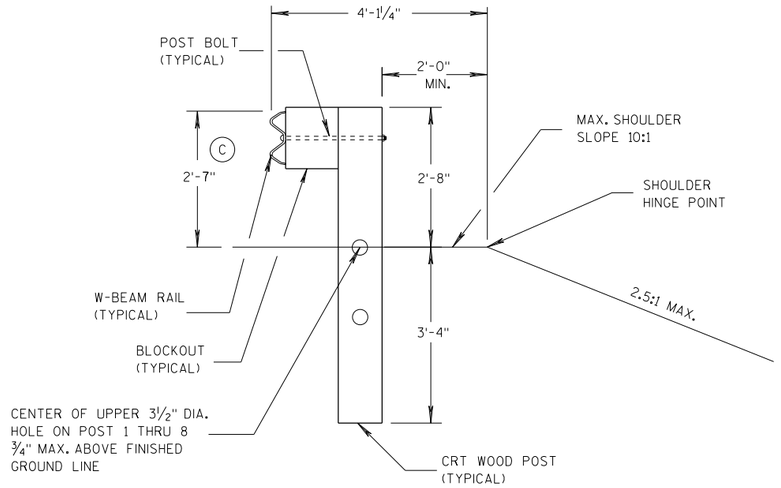


PLAN VIEW



FRONT VIEW SIDE VIEW

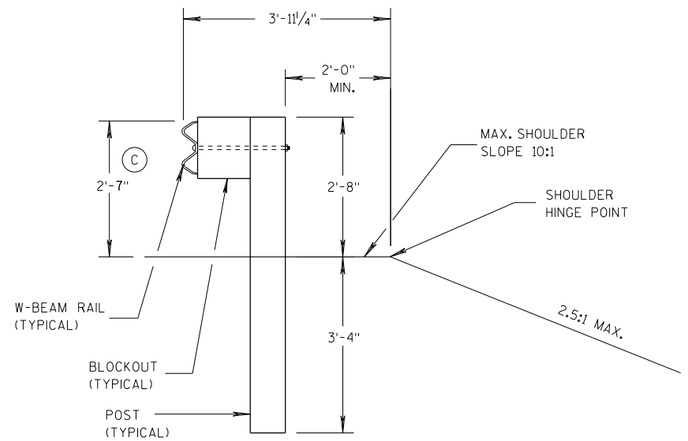
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



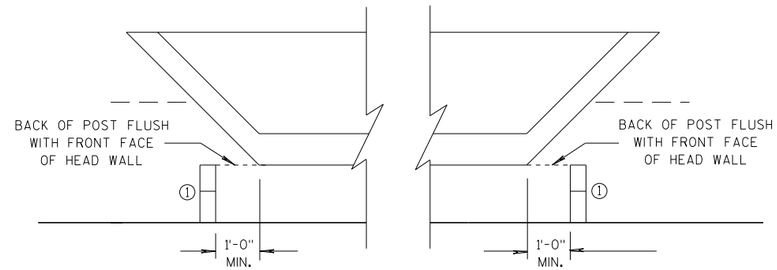
SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

GENERAL NOTES

(C) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



POST PLACEMENT DETAIL

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER

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S.D.D. 14 B 43-4c

6

S.D.D. 14 B 43-4c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

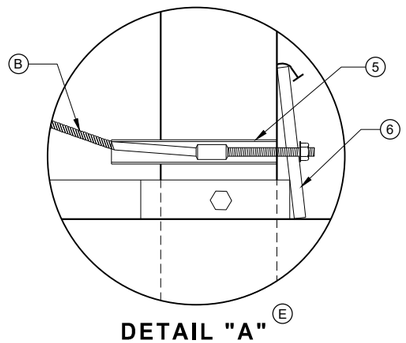
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

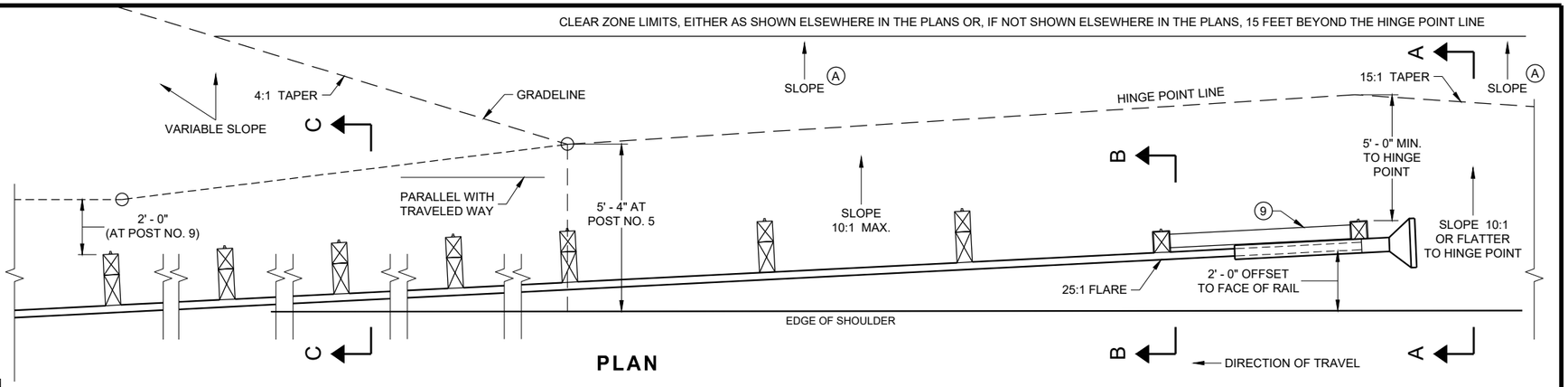
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

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

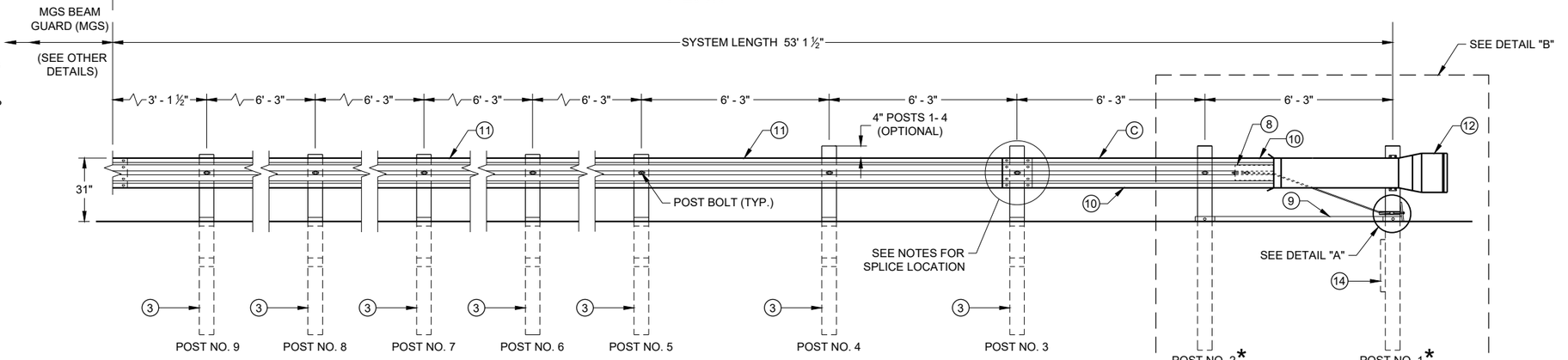
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



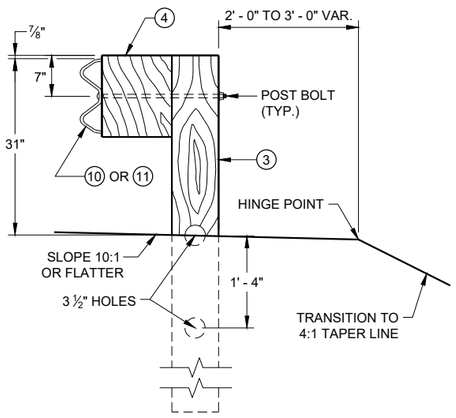
DETAIL "A" (E)



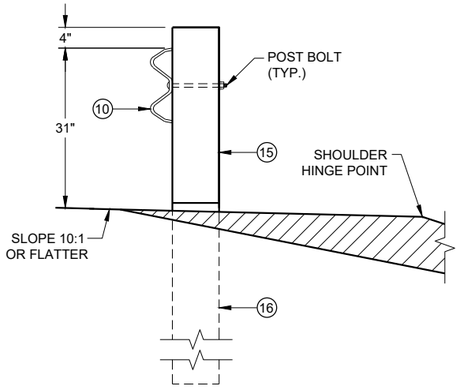
PLAN



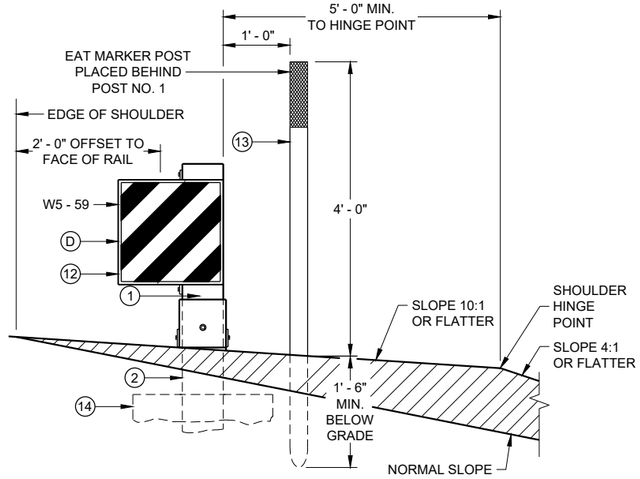
ELEVATION



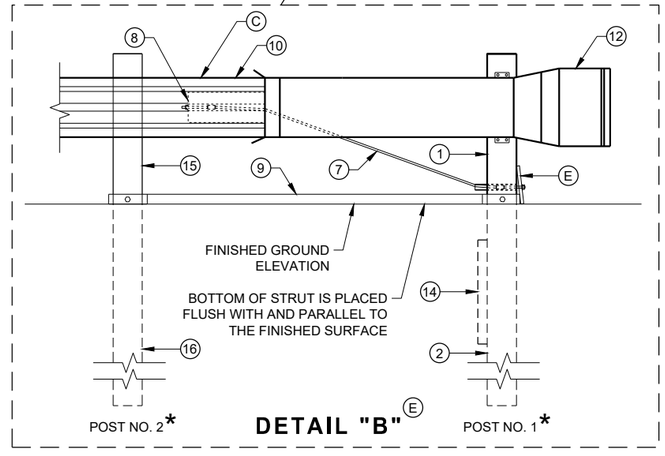
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



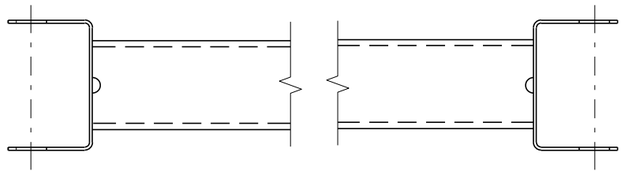
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

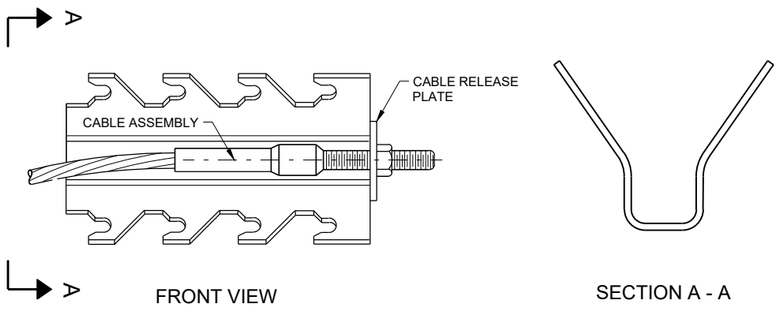
SDD 14B44 - 04a



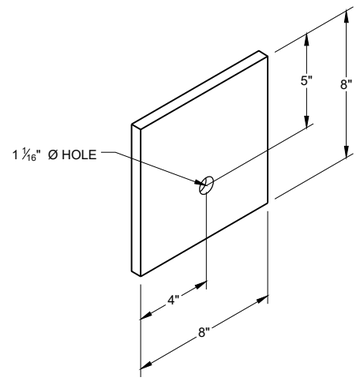
GENERIC GROUND STRUT (9) (E)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
(1)	UPPER POST NO. 1 6" X 6" TUBE
(2)	LOWER POST NO. 1
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	IMPACT HEAD
(13)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
(14)	SOIL PLATE
(15)	UPPER POST NO. 2
(16)	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX (9) (E)



BEARING PLATE (6) (E)

6

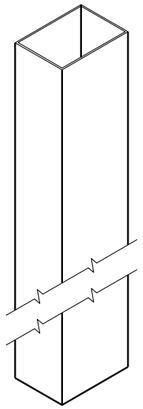
6

SDD 14B44 - 04b

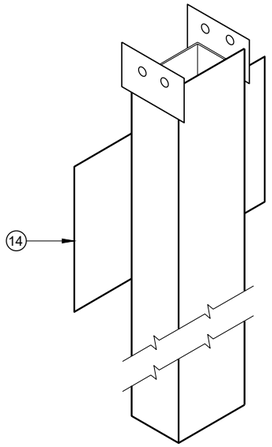
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

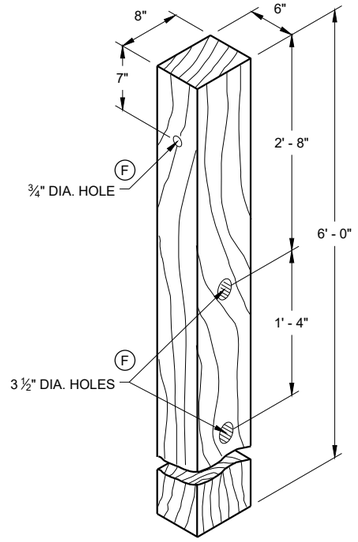
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



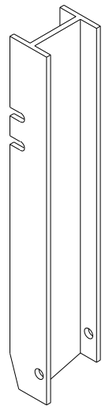
UPPER POST NO. 1 (1) (E)



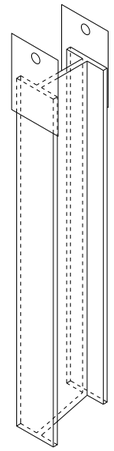
LOWER POST NO. 1 (2) (E)



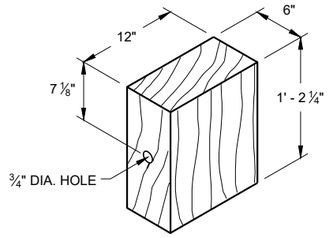
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



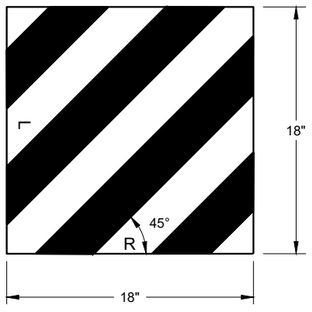
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

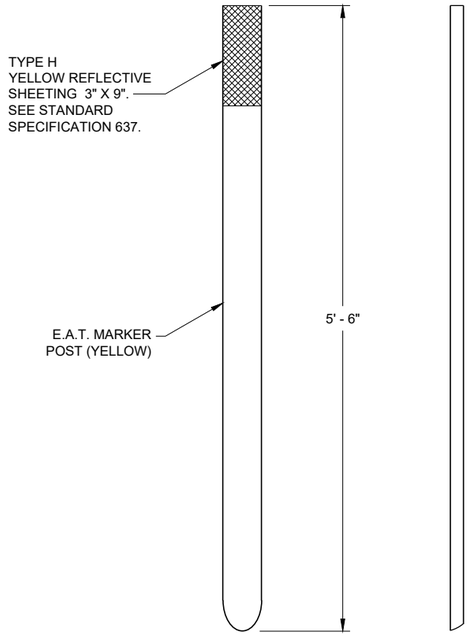


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



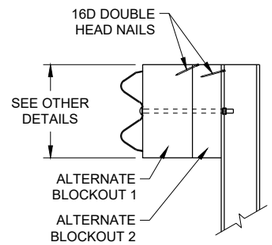
W5 - 59

REFLECTIVE SHEETING DETAIL (E)

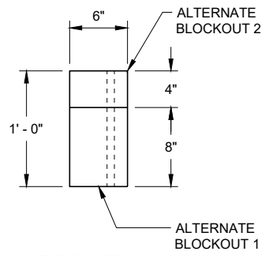


FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

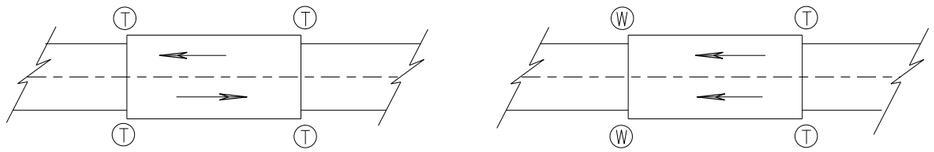
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

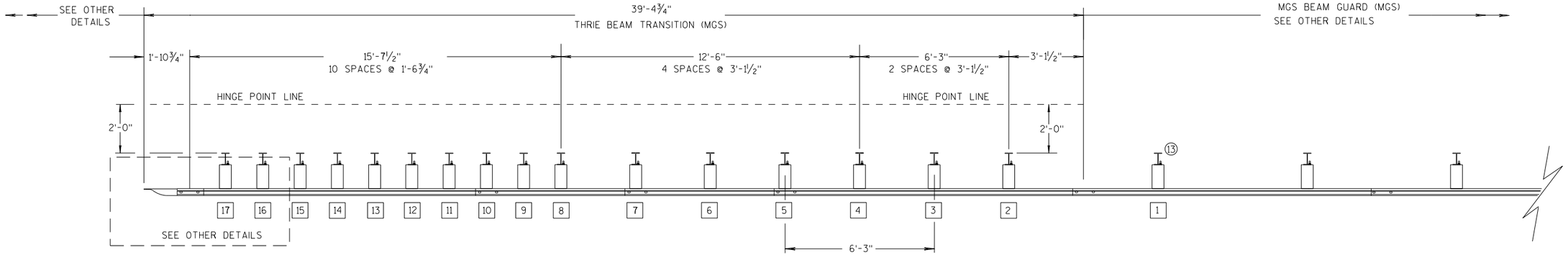
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

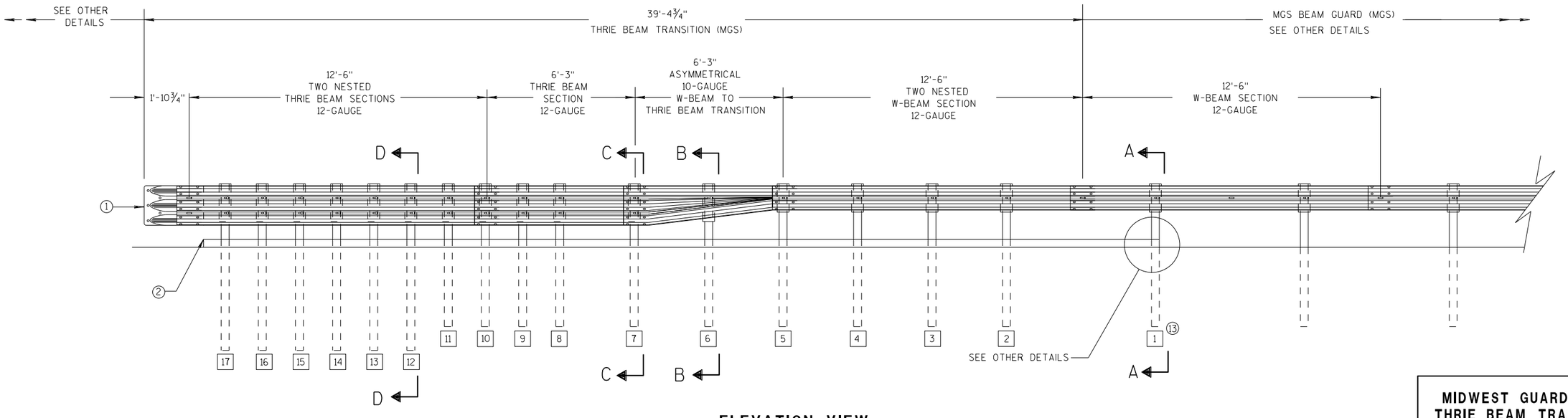
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 195

6

S.D.D. 14 B 45-5a

6

S.D.D. 14 B 45-5a

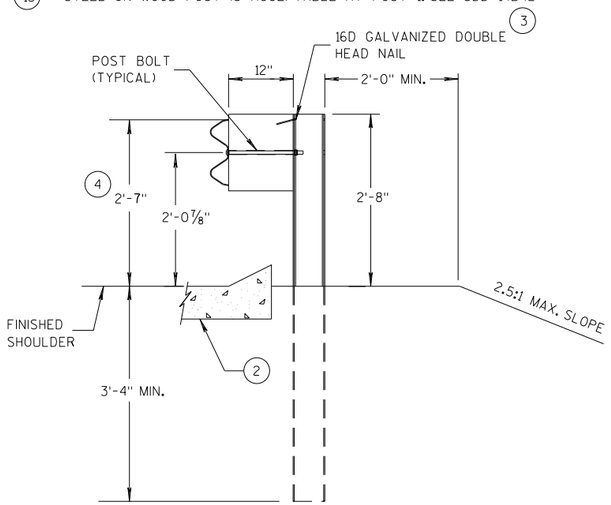
GENERAL NOTES

(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.

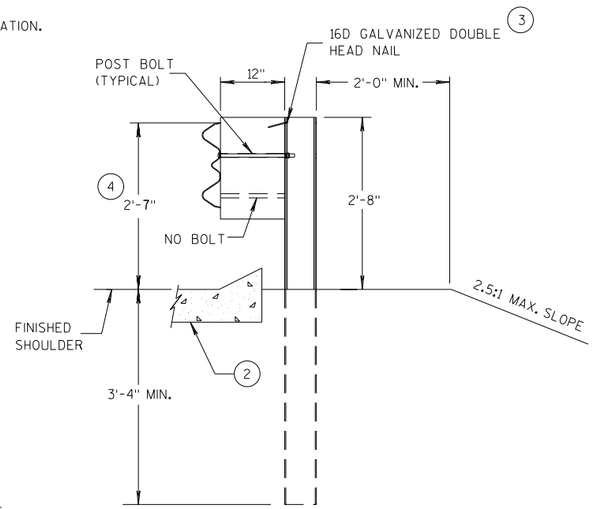
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



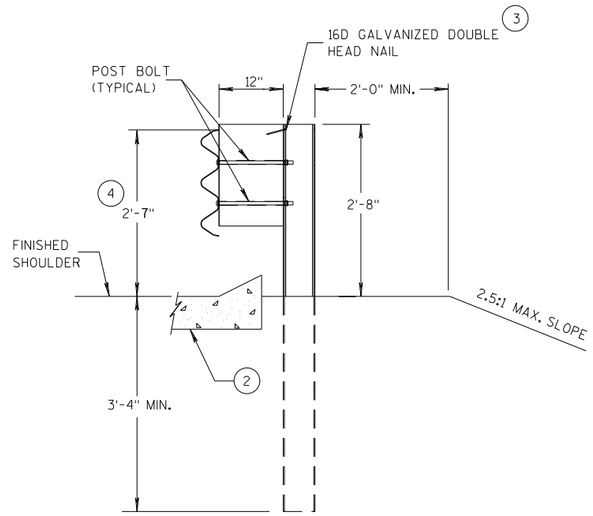
SECTION A-A (13)

POSTS 1-5



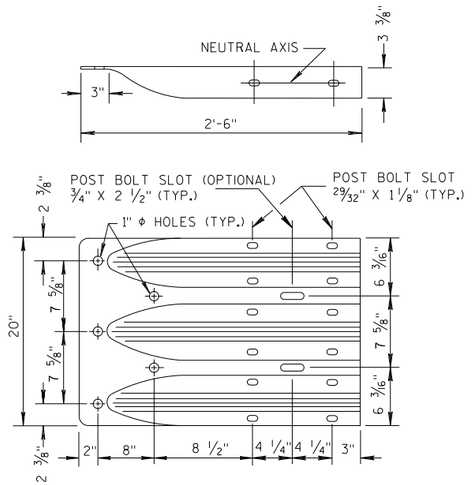
SECTION B-B

POST 6

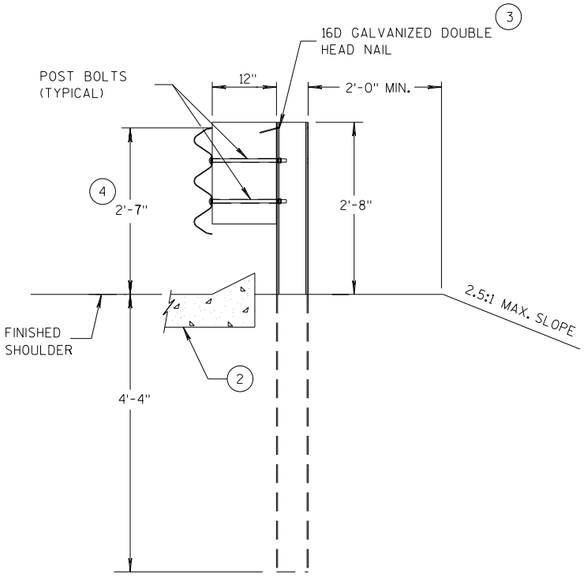


SECTION C-C

POSTS 7-11

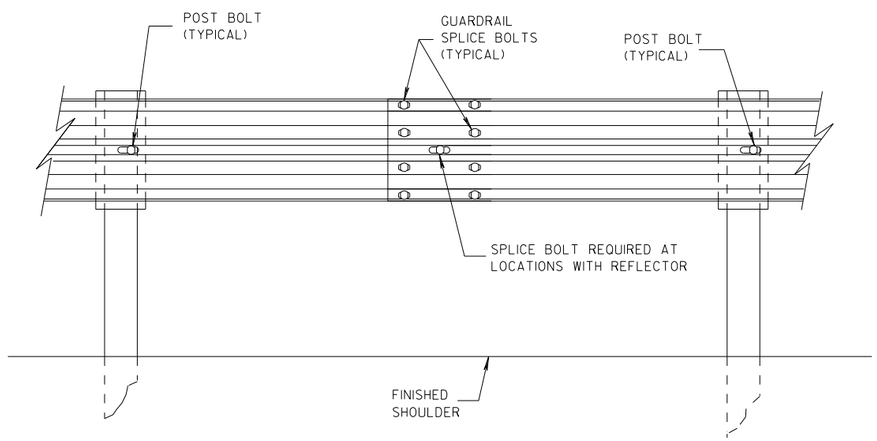


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

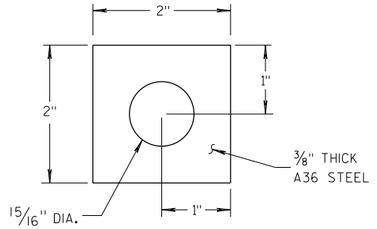
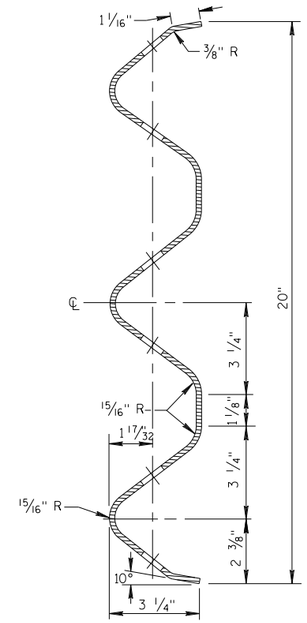


PLATE WASHER DETAIL



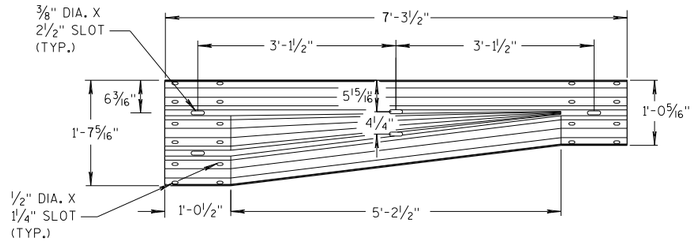
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

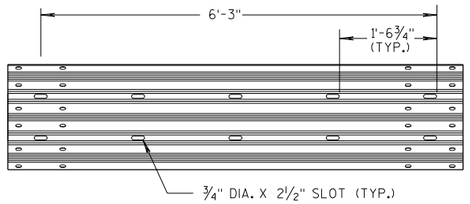
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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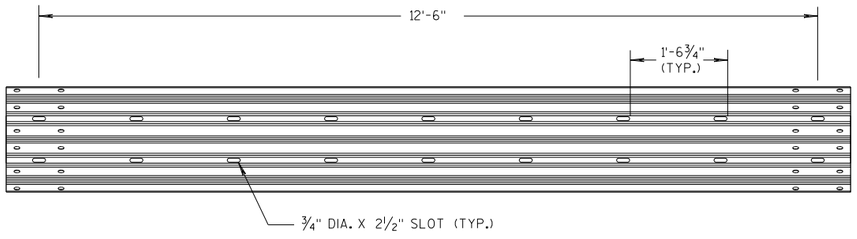
S.D.D. 14 B 45-5b



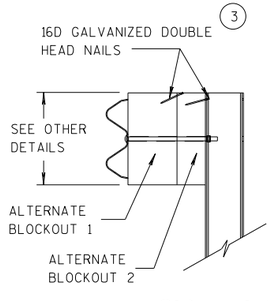
W-BEAM TO THRIE BEAM TRANSITION SECTION



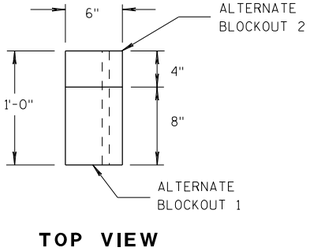
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

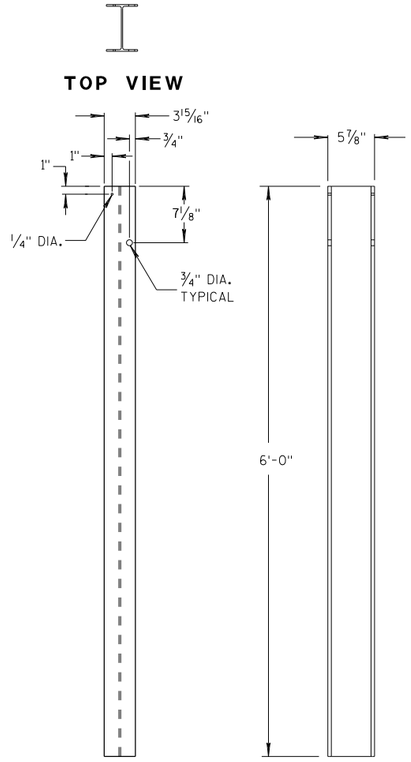


SIDE VIEW



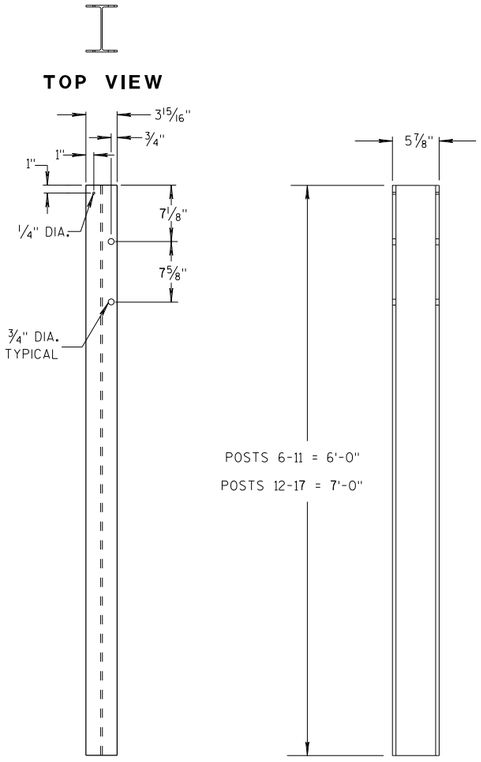
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



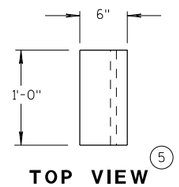
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

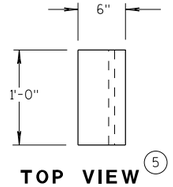


FRONT VIEW SIDE VIEW

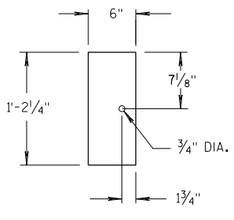
STEEL POSTS 6-17



TOP VIEW (5)

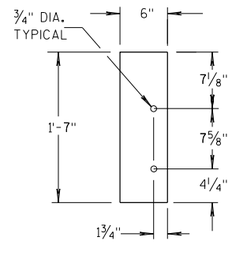


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

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

(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

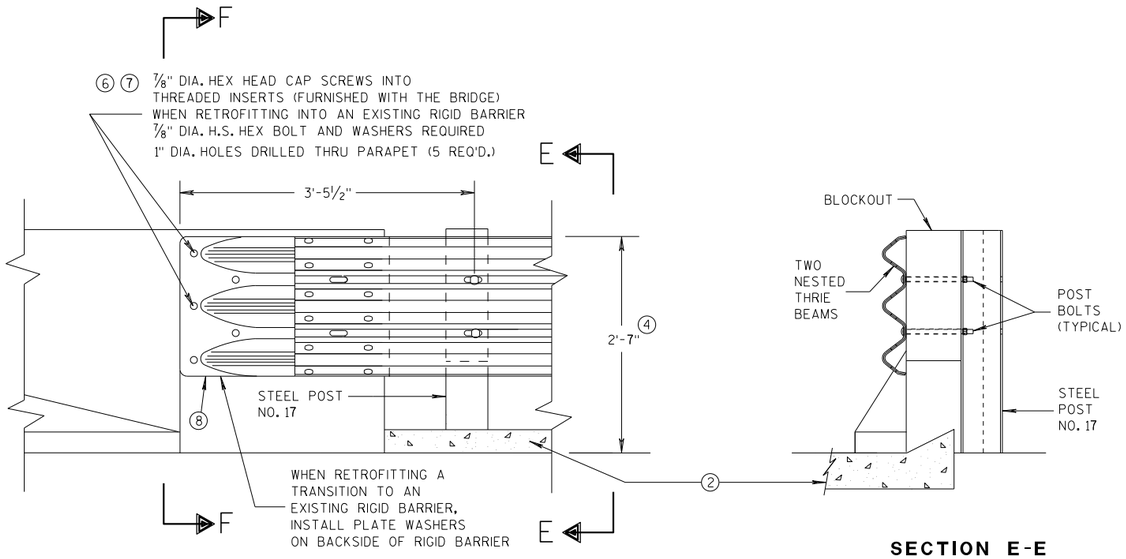
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

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.

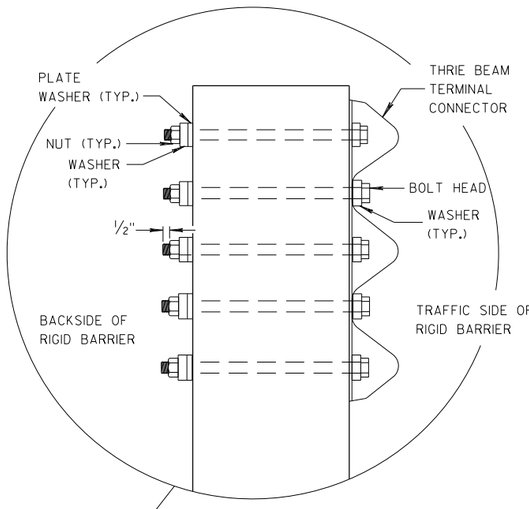
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

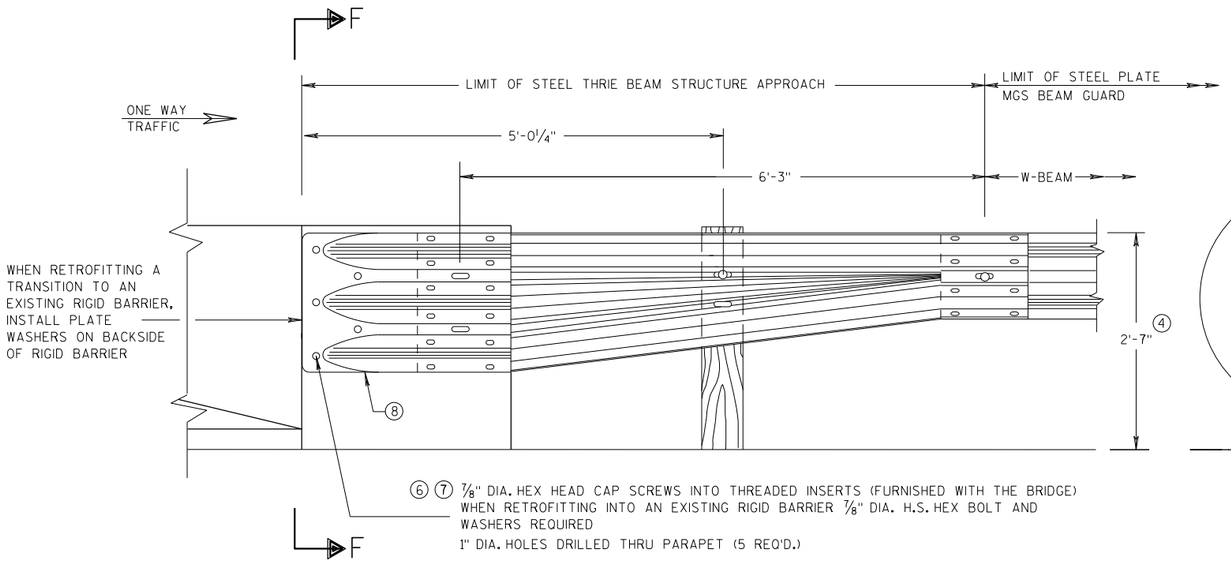
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

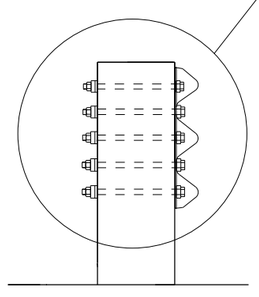
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⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

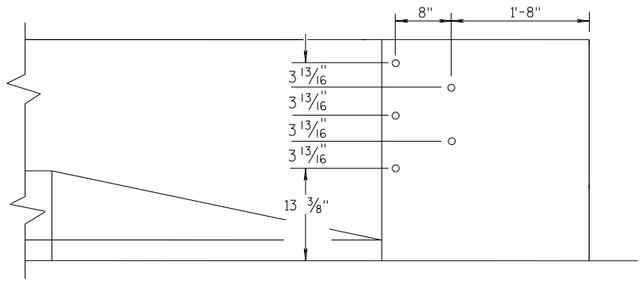




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D UNIT SUPERVIS NT
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GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

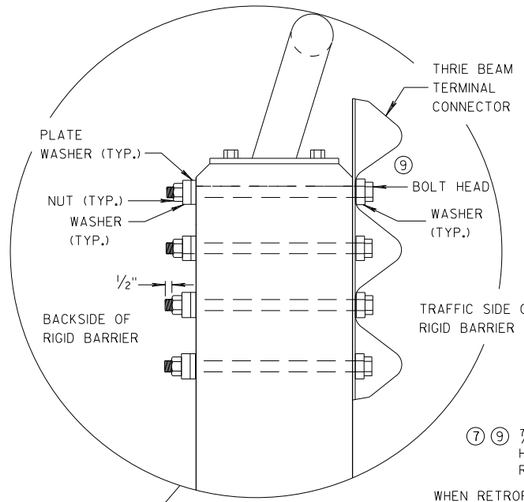
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

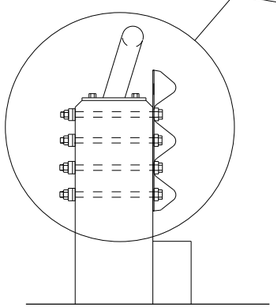
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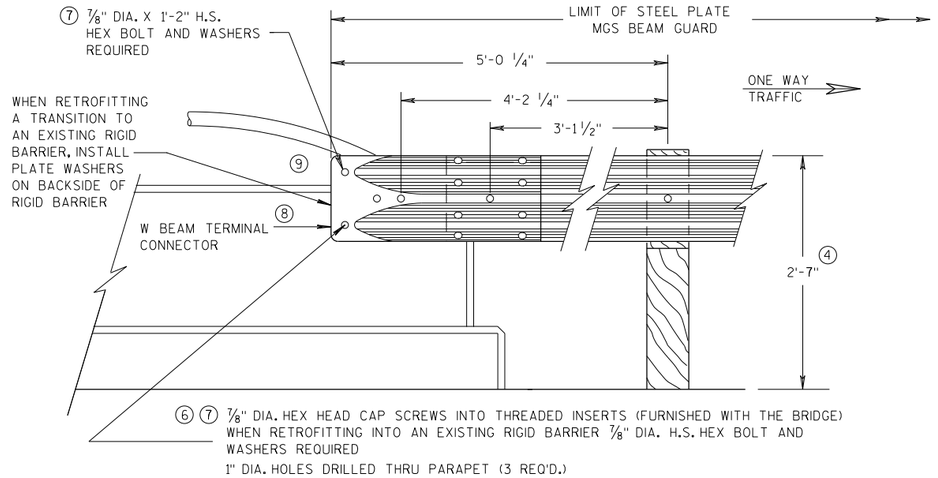
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(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.





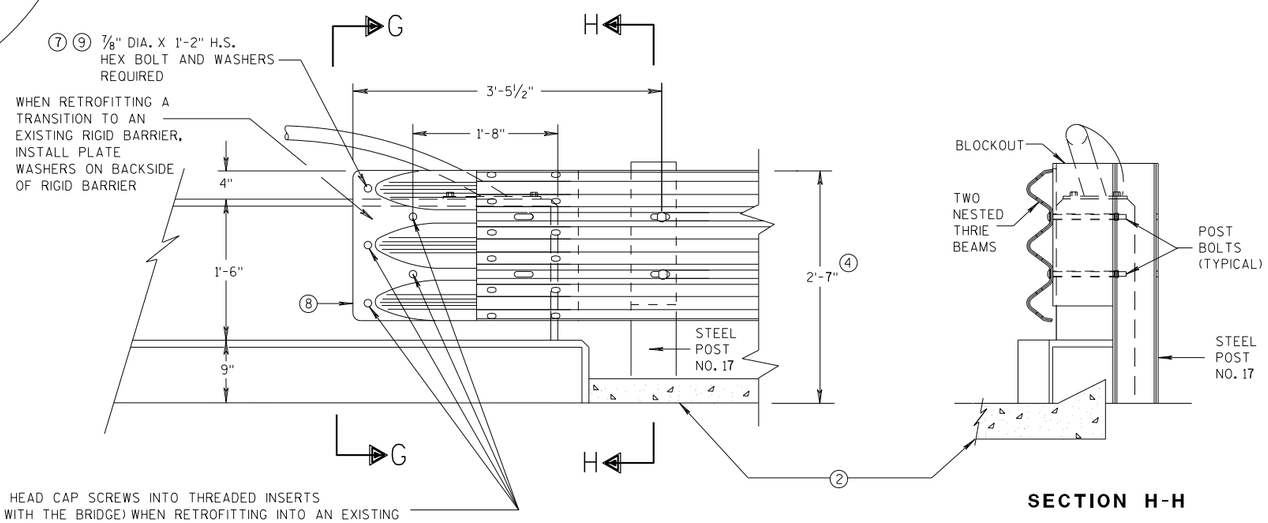
SECTION G-G



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

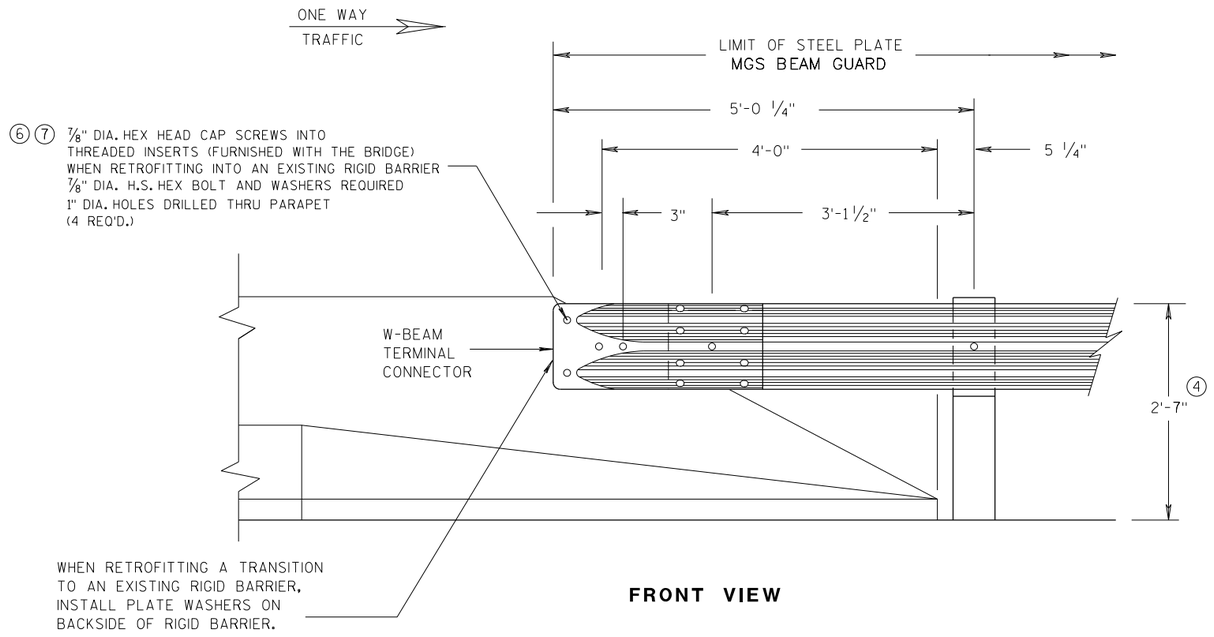
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FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

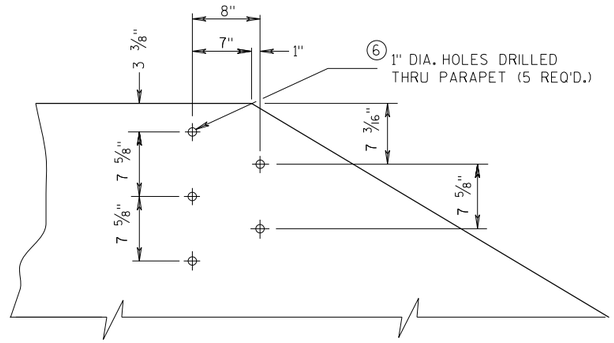
GENERAL NOTES

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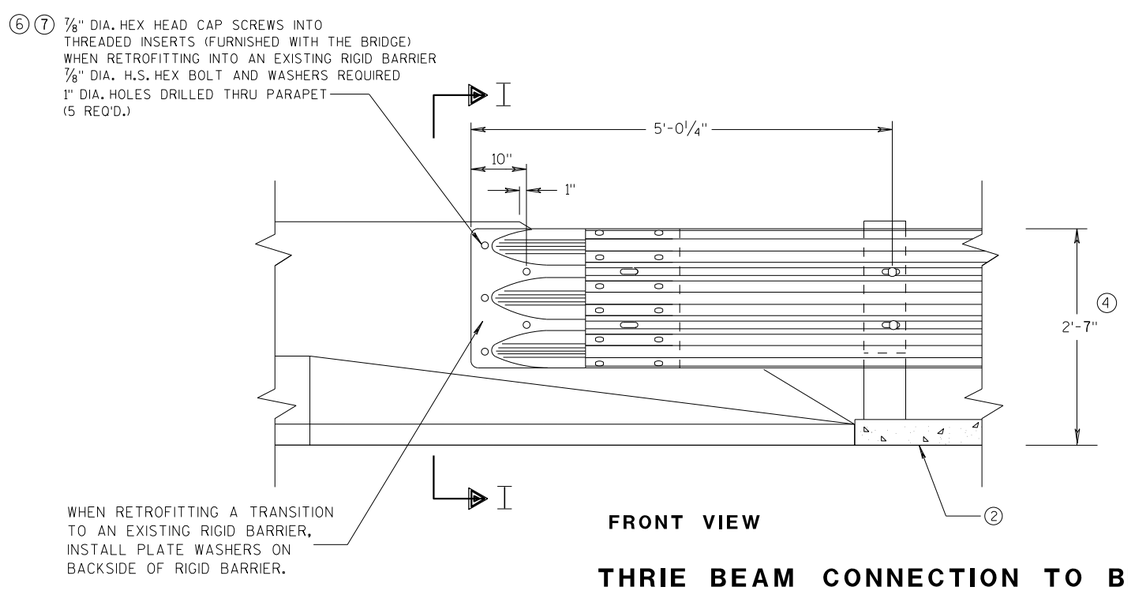
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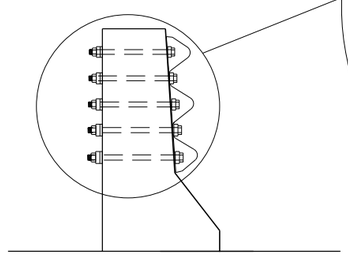
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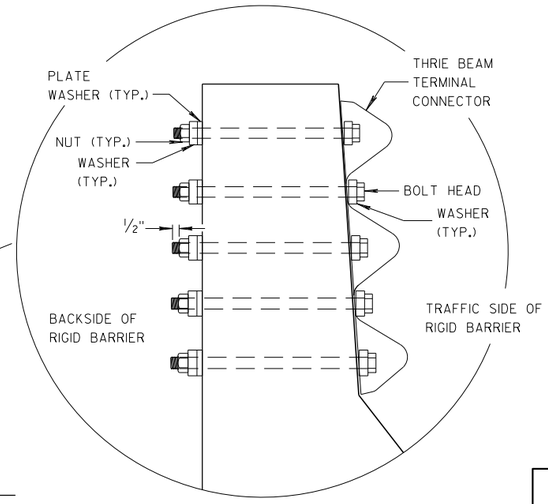
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

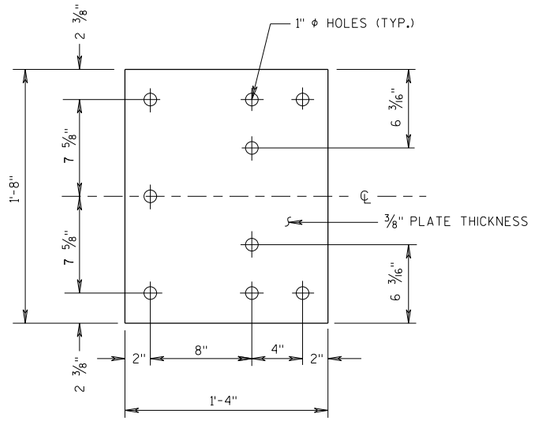
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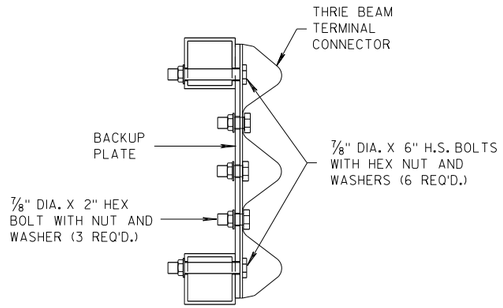
S.D.D. 14 B 45-5f

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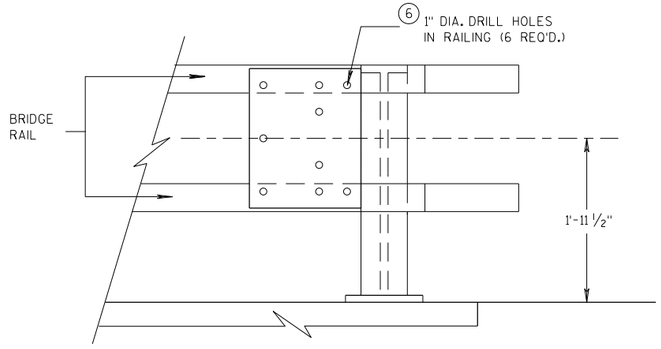
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BACK-UP PLATE DETAIL



SECTION J-J

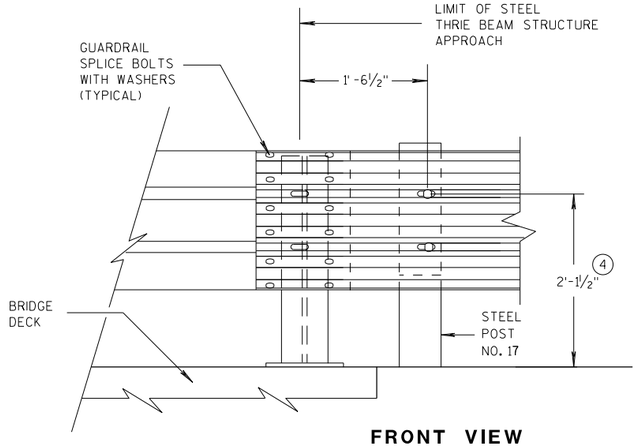


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

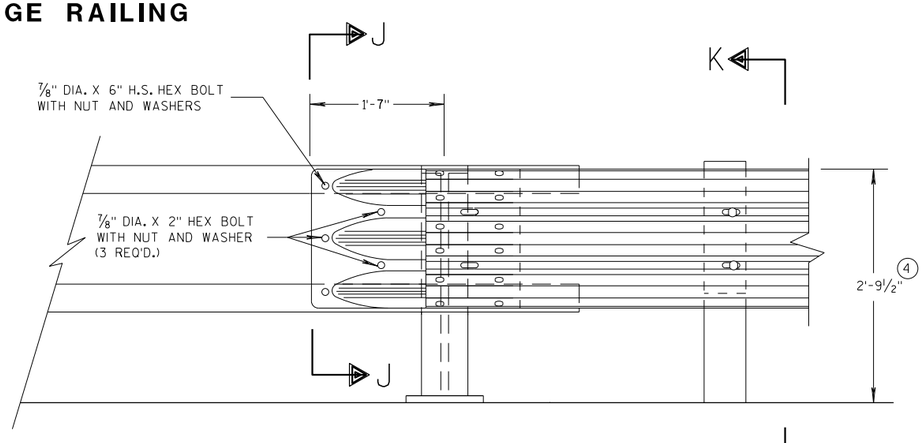
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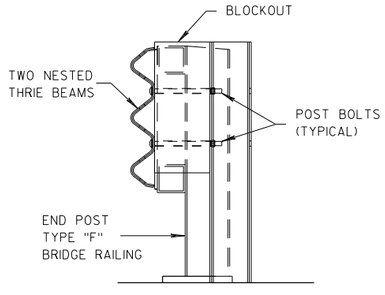


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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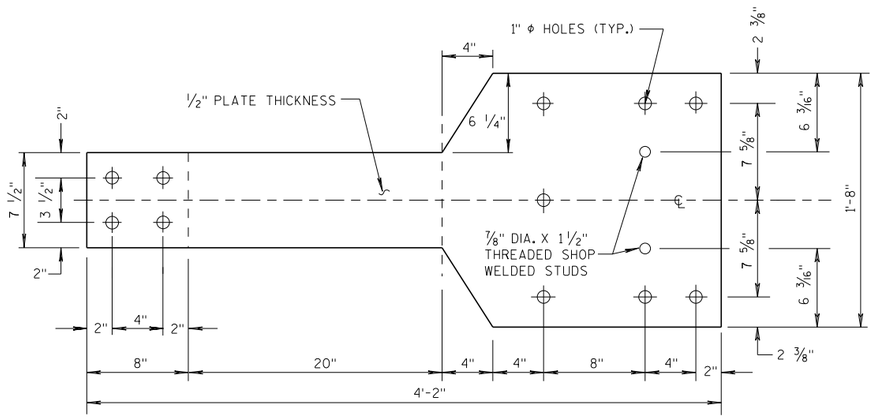
S.D.D. 14 B 45-5g

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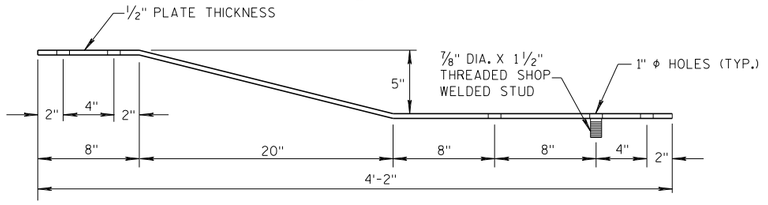
S.D.D. 14 B 45-5g

GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

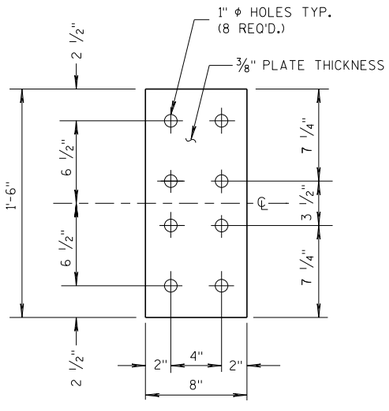


FRONT VIEW



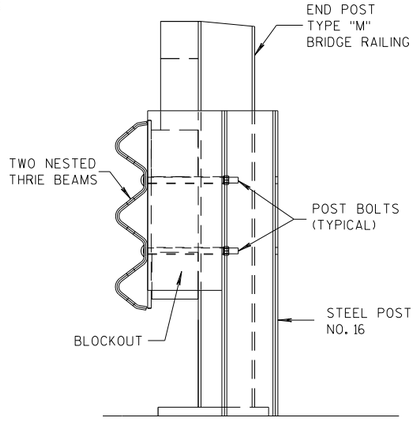
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

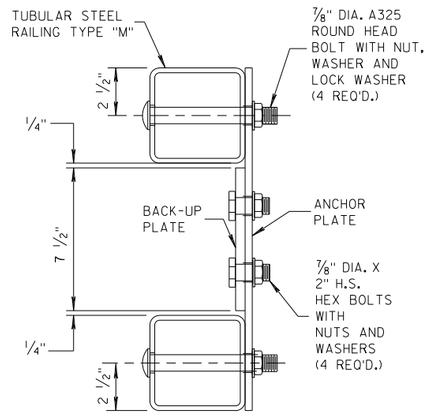


FRONT VIEW

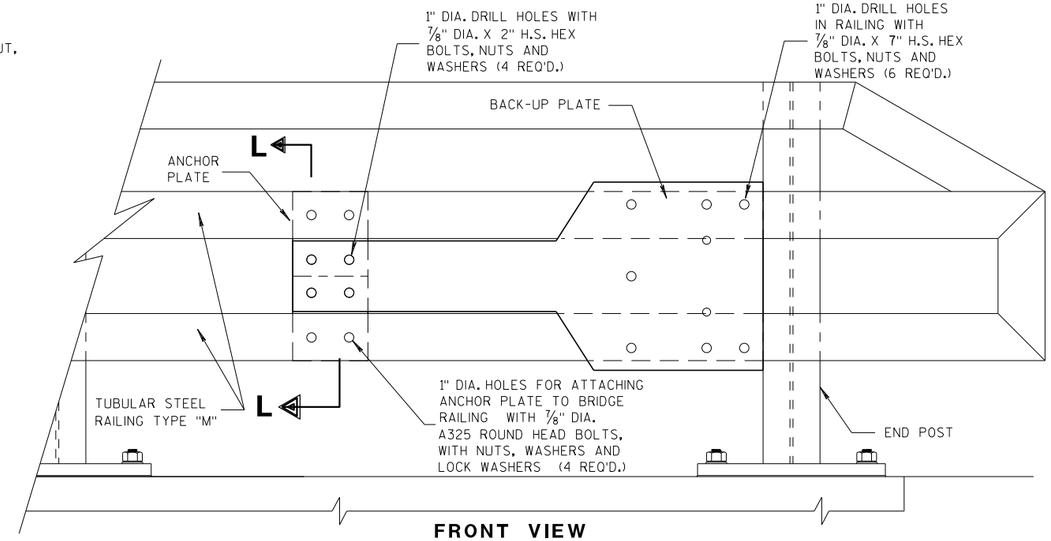
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

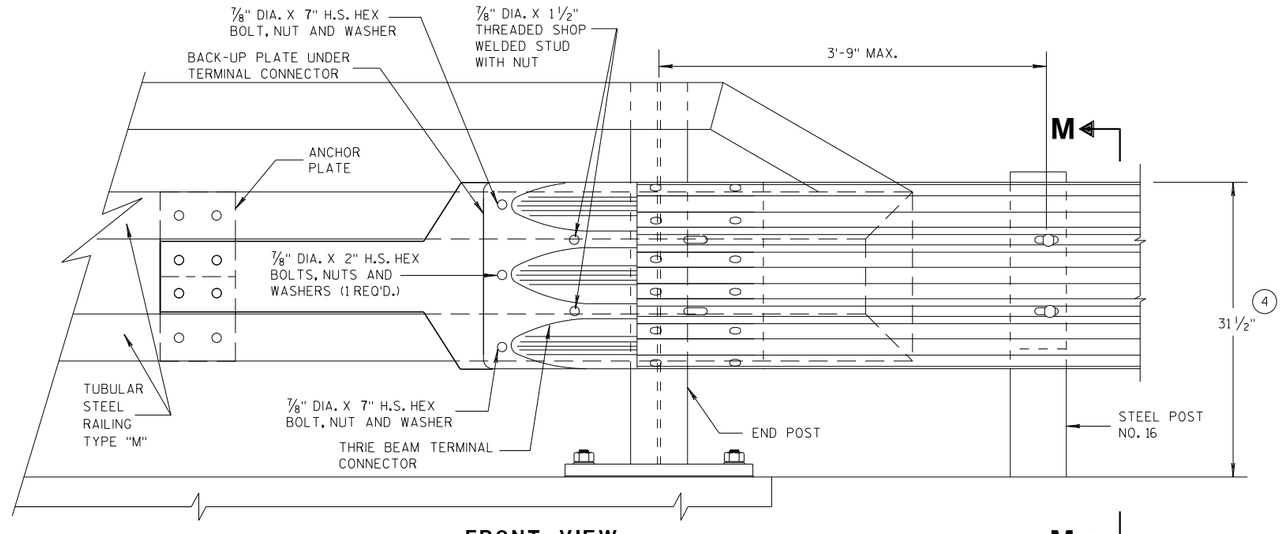


SECTION L-L

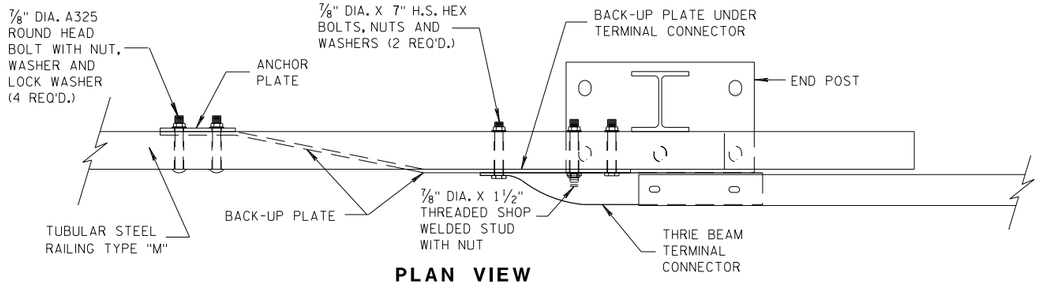


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

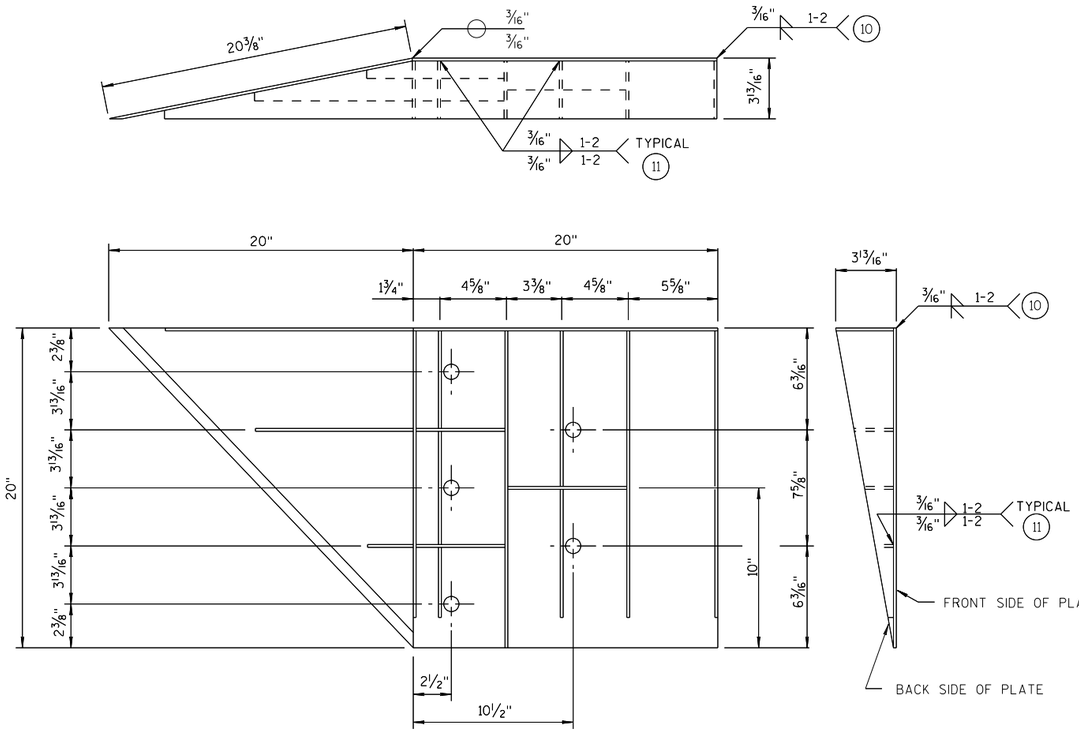
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

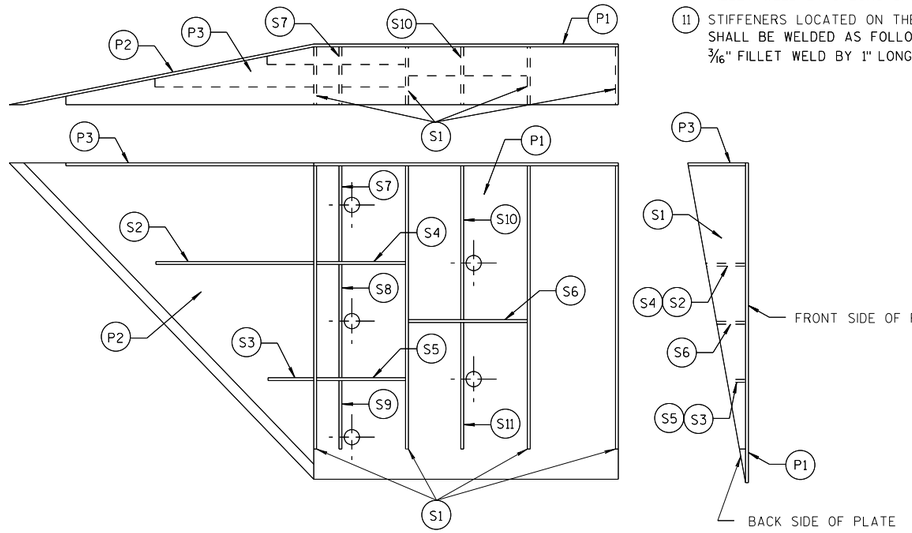


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

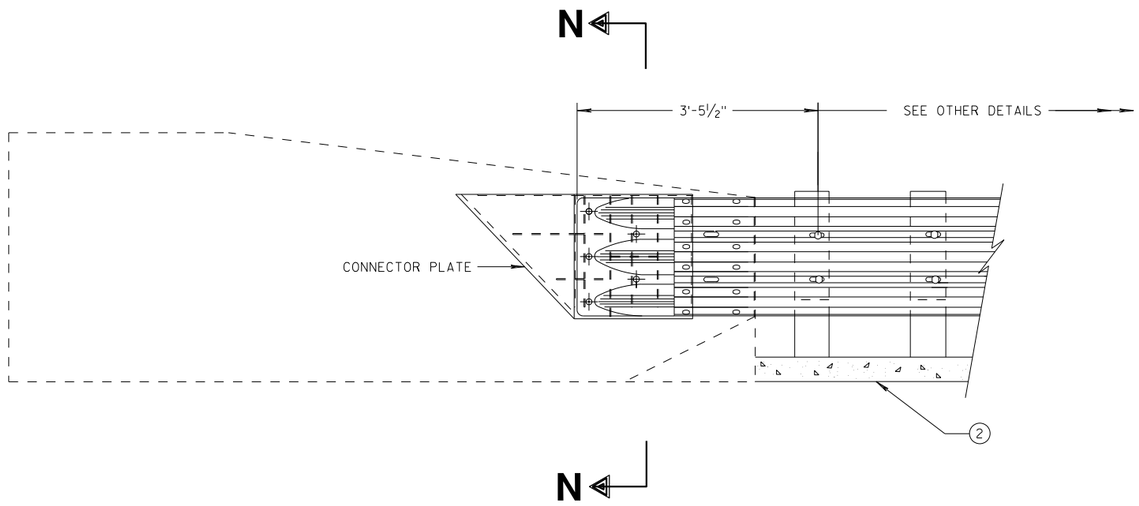
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UNIT SUPERVI

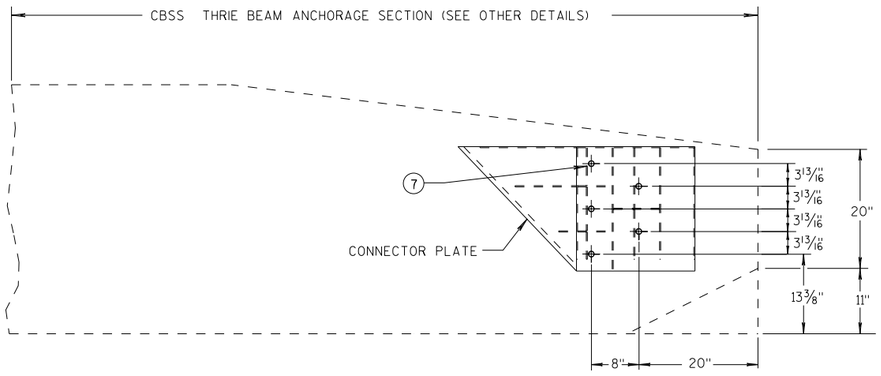
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THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



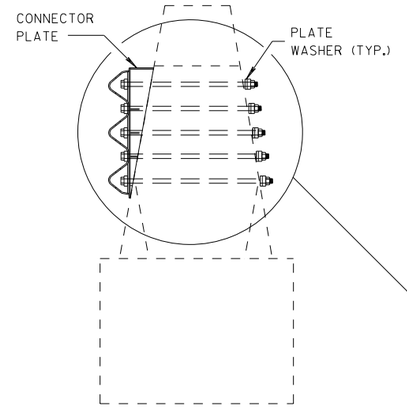
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

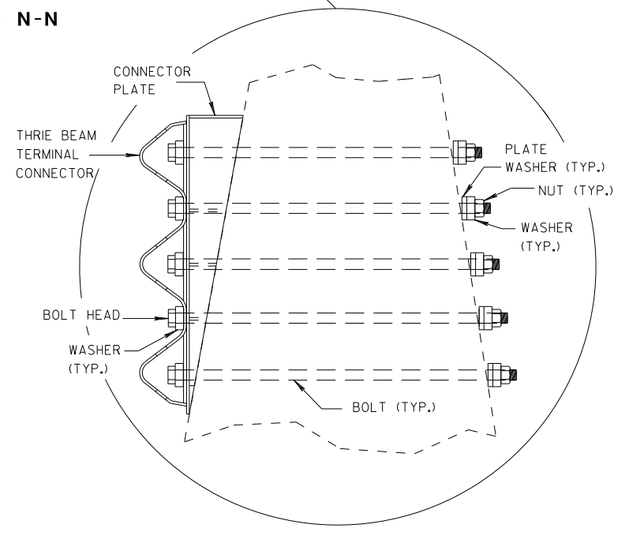
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SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

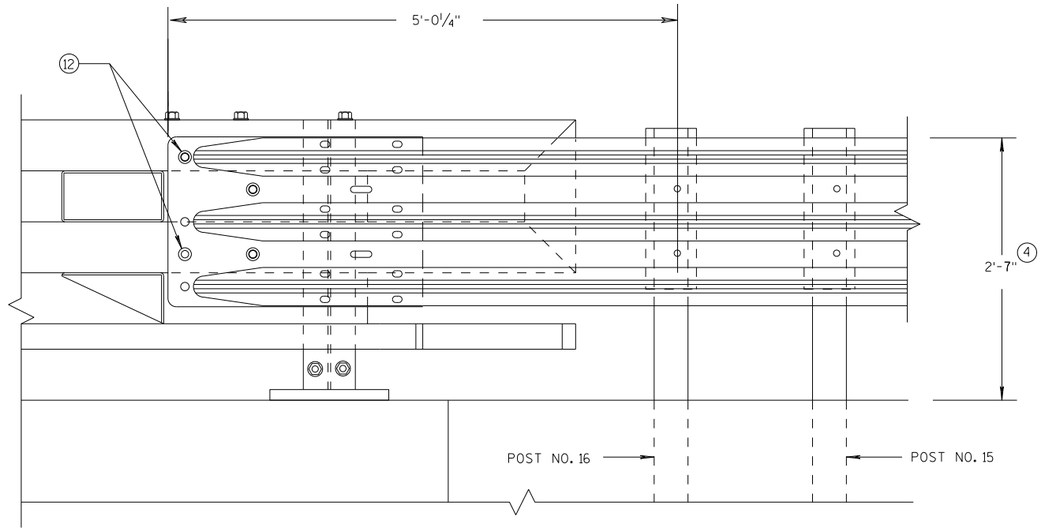
APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DI UNIT SUPERVIS NT
FHWA

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S.D.D. 14 B 45-5j

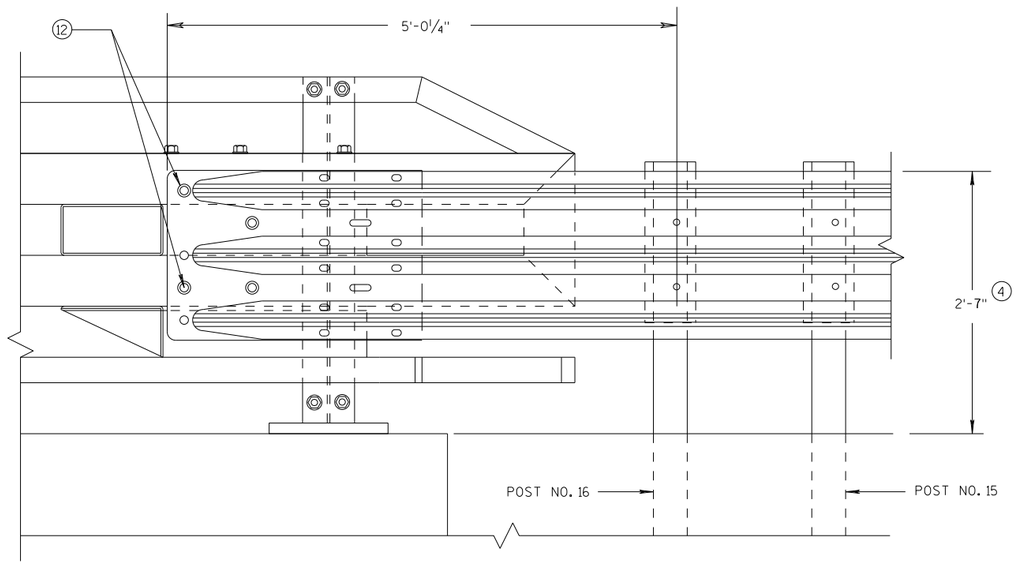
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S.D.D. 14 B 45-5j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
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/S/ Rodney Taylor
ROADWAY STANDARDS D
UNIT SUPERVIS

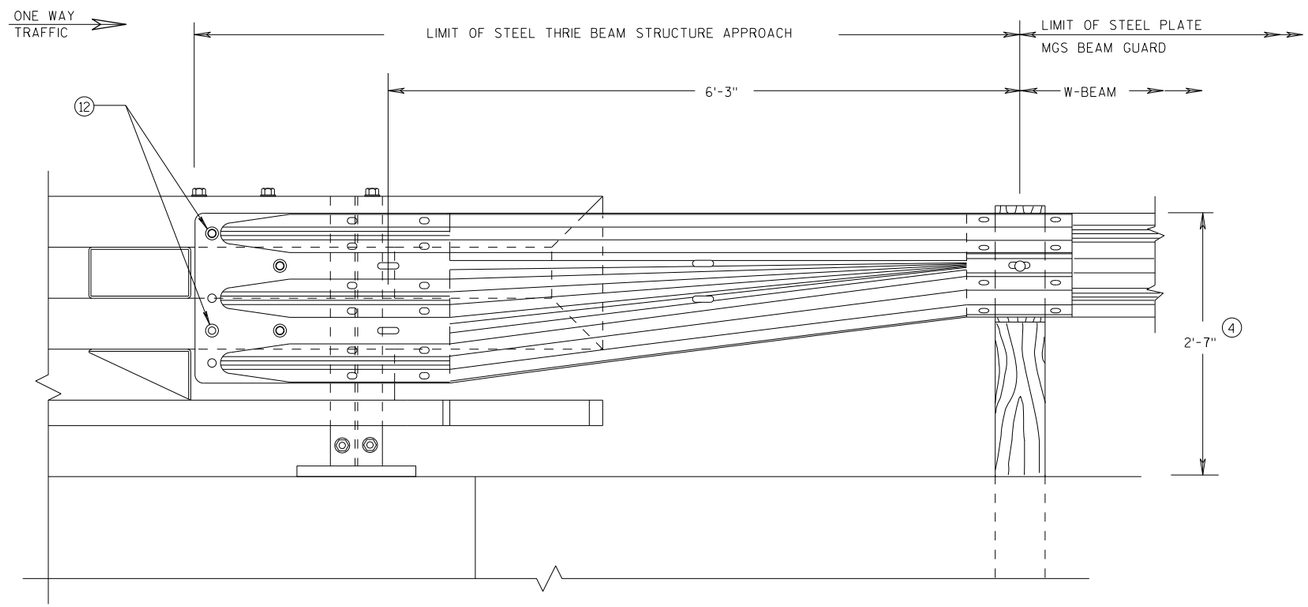
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S.D.D. 14 B 45-5k

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S.D.D. 14 B 45-5k



FRONT VIEW

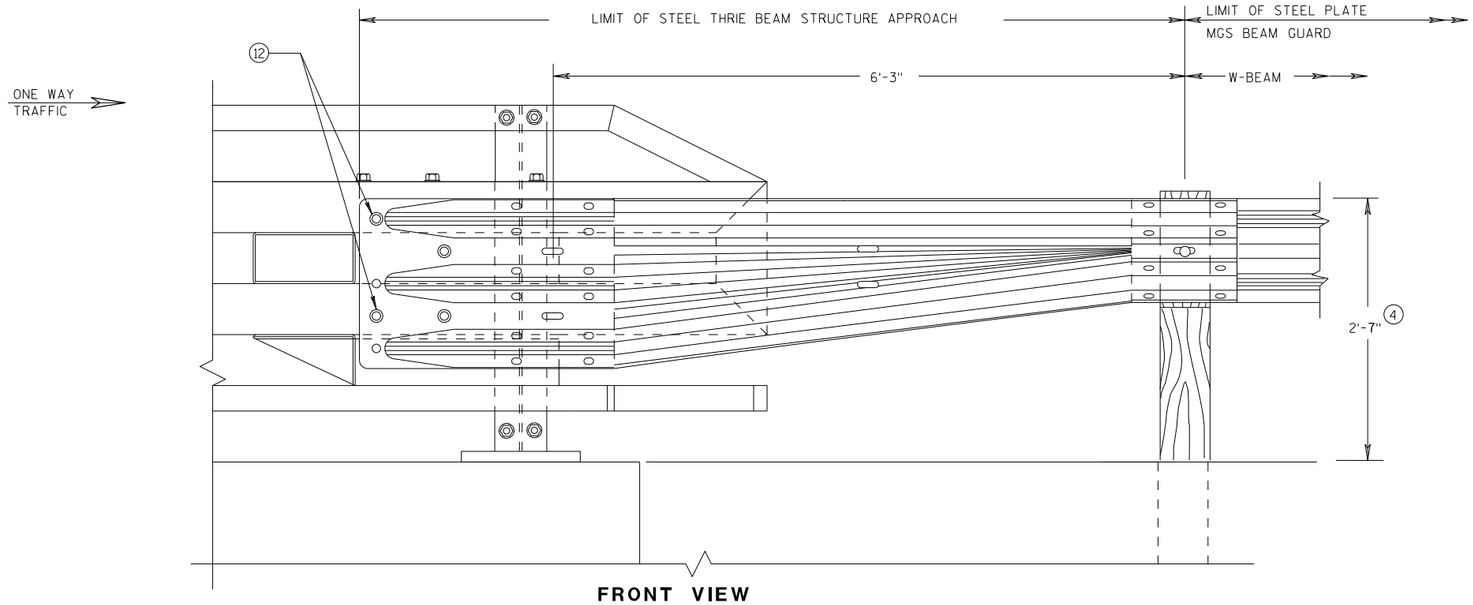
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(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

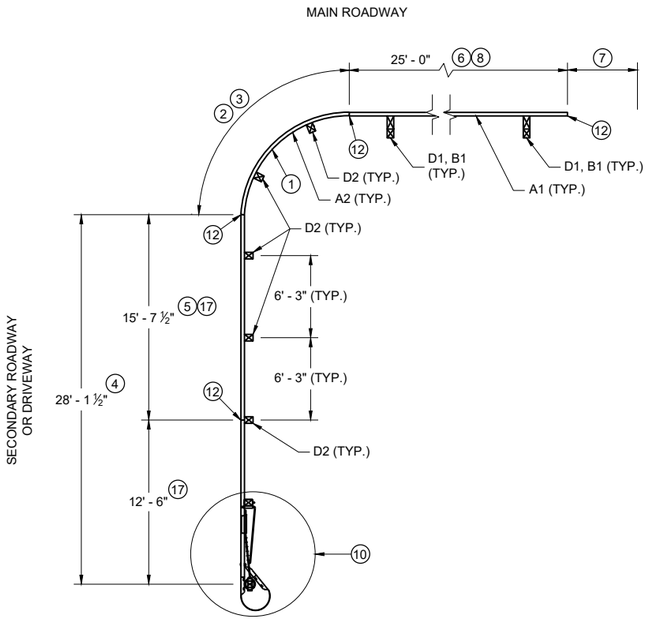
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/S/ Rodney Taylor
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S.D.D. 14 B 45-5L

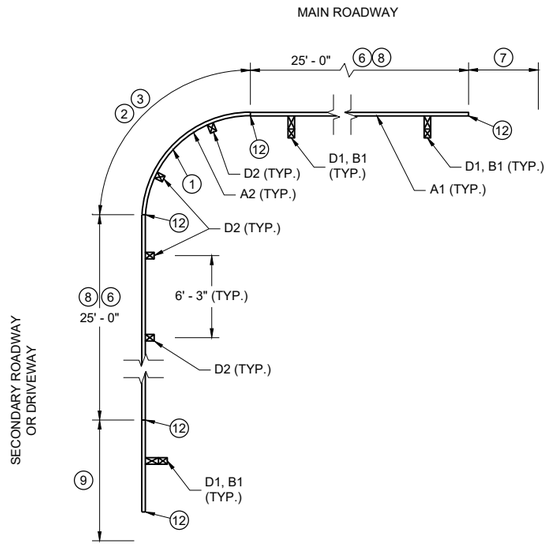
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S.D.D. 14 B 45-5L



PLAN VIEW

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

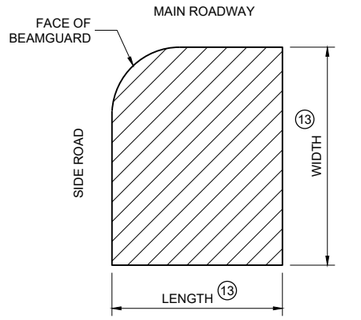


PLAN VIEW

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

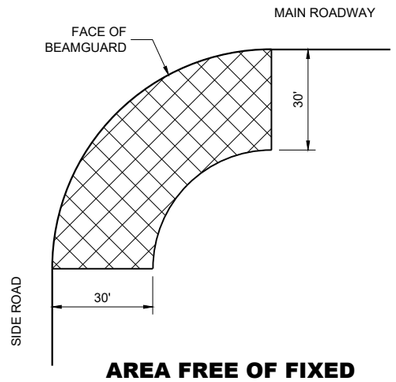
TABLE FOR RADIUS OF 32' AND LESS

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

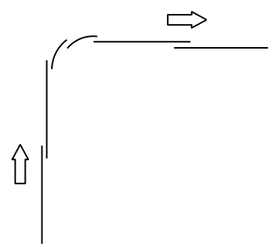


16

AREA FREE OF FIXED OBJECTS FOR RADIUS 32' AND LESS



AREA FREE OF FIXED OBJECTS FOR RADIUS GREATER THAN 32'



LAP SPLICE DETAIL

GENERAL NOTES

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

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

GALVANIZE PARTS AFTER FABRICATION.

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

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

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

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

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

DRAWINGS ARE NOT TO SCALE.

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

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

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

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

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

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

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

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

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

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

(11) HEIGHT VARIES. SEE NOTE (8) AND (17).

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

(13) SEE TABLE FOR VALUES.

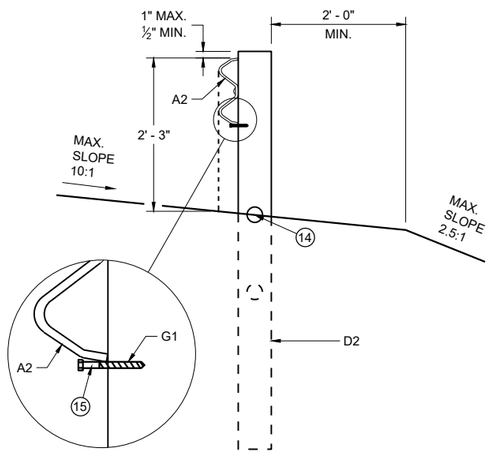
(14) MAXIMUM HEIGHT FOR CENTER OF HOLE IS ¾ " ABOVE FINISHED GROUND ±1".

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

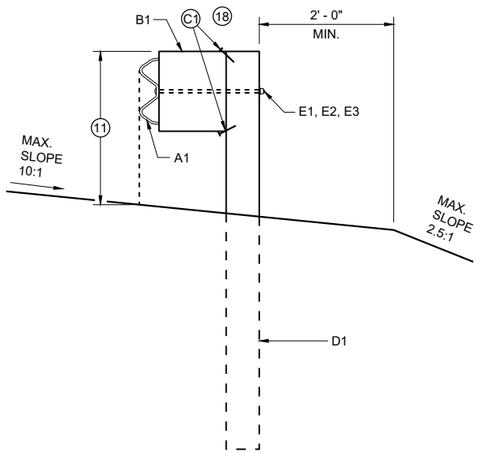
(16) SMALL SIGNS ON BREAKAWAY HARDWARE ARE ACCEPTABLE.

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

(18) INITIAL 1 NAIL AT EACH CORNER OF THE BLOCK TO CONNECT BLOCKS.



CONTROLLED RELEASE TERMINAL POST (CRT) IN RADIUS



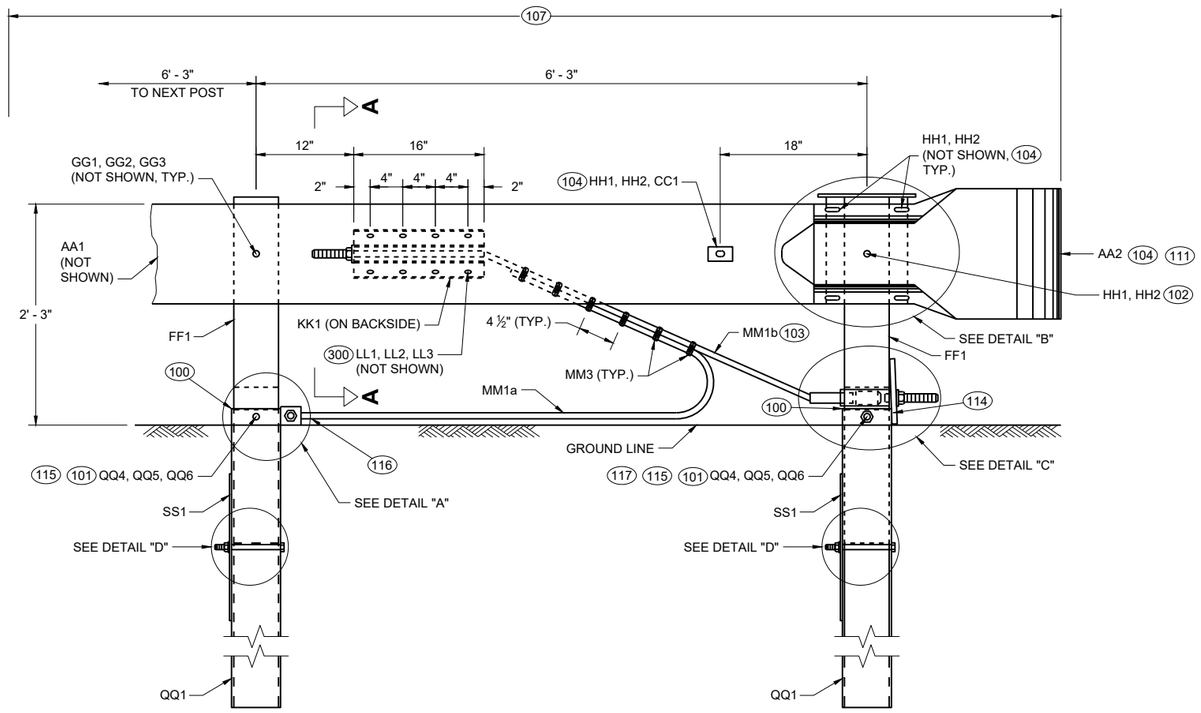
BEAM GUARD POSTS IN HEIGHT TRANSITION

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

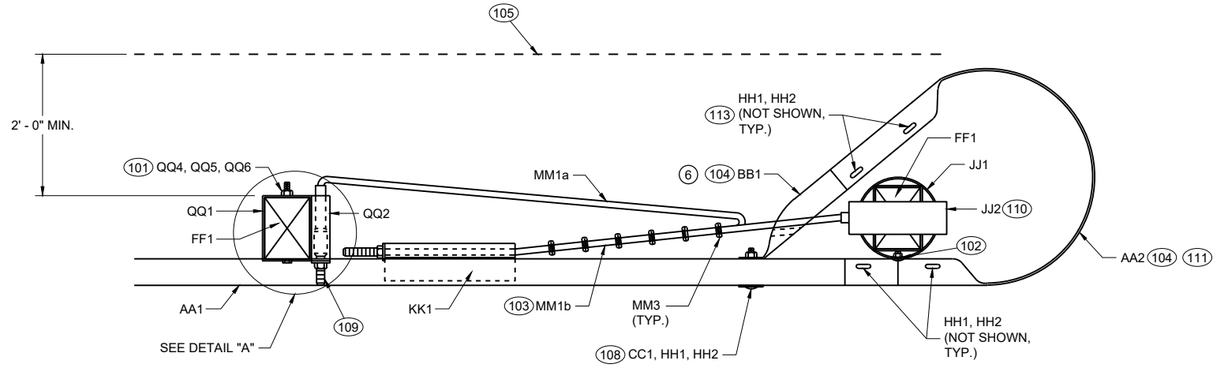
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SDD 14B53-04a



PROFILE VIEW

SHORT RADIUS TERMINAL



TOP VIEW

SHORT RADIUS TERMINAL

GENERAL NOTES

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

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

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

(103) CABLE IS TAUT.

(104) ADJUST AA2 AND BB1 TO FIT.

(105) BREAK POINT OF SHOULDER.

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

(107) PAY LIMIT FOR BEAM GUARD.

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

(109) CUT OR PROVIDE THREADED STUD THAT IS FLUSH WITH FACE OF BEAM GUARD RAIL KK1 (PLUS OR MINUS 1/2" TOLERANCE). DEBURR AFTER CUTTING.

(110) SEE STEEL PIPE ASSEMBLY DETAILS.

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

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

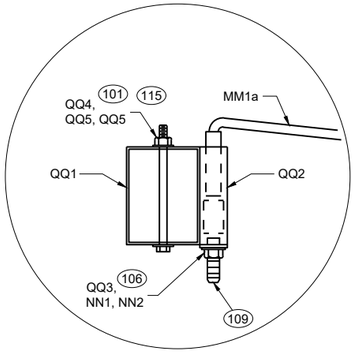
(113) FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA2 TO BB1.

(114) NO MATERIAL IS TO BE PLACED AGAINST THE VERTICAL FACES OF BEARING PLATE.

(115) PREVENT OR REMOVE MATERIALS THAT BLOCK ACCESS TO BOLTS FOR POST AND SOIL TUBE.

(116) PREVENT OR REMOVE MATERIALS THAT BLOCK ACCESS TO BOLT. PLACE CABLE ON TOP OF MATERIAL.

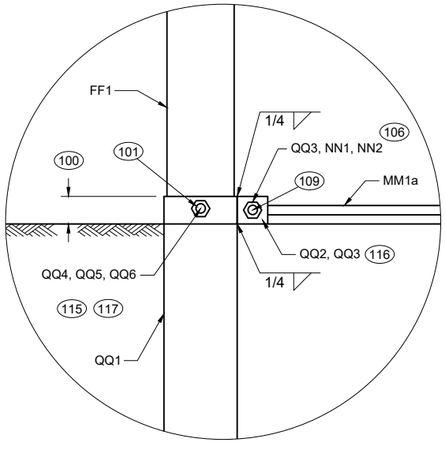
(117) ONE WASHER BETWEEN BOLD HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.



TOP VIEW

DETAIL "A"

(WOOD BREAKAWAY AND BEAM GUARD RAIL POSTS NOT SHOWN)



PROFILE VIEW

DETAIL "A"

6

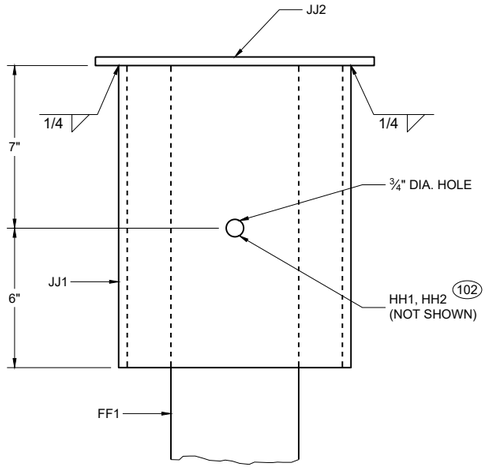
SDD 14B53-04b

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

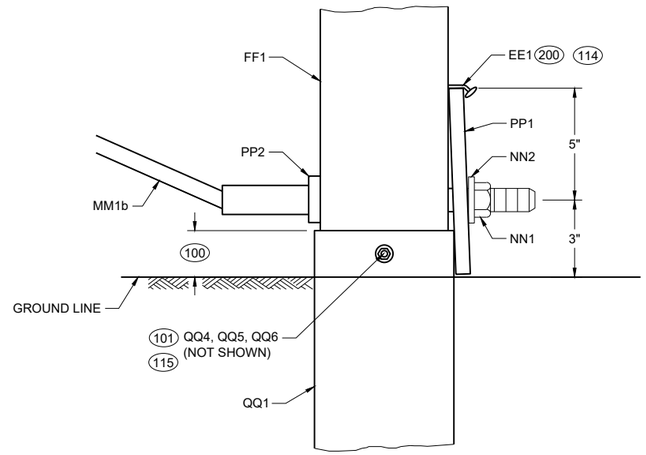
GENERAL NOTES

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



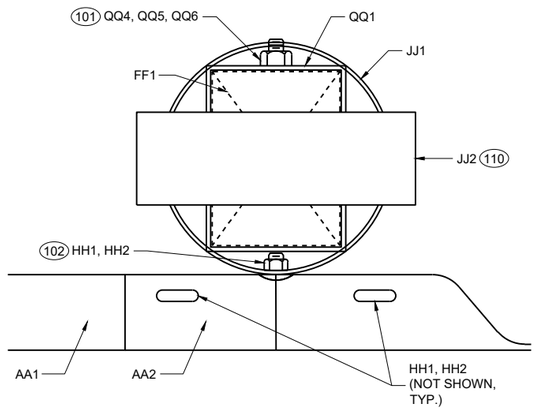
PROFILE VIEW

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



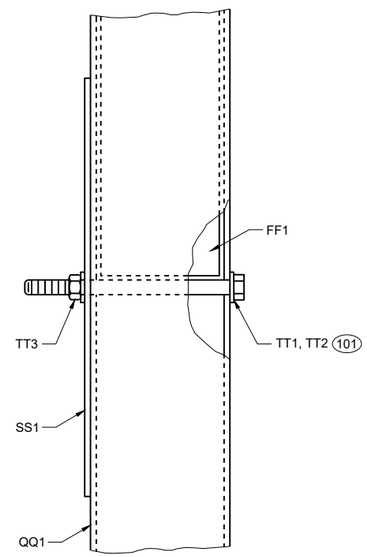
PROFILE VIEW

DETAIL "C"



PLAN VIEW

DETAIL "B"
STEEL PIPE ASSEMBLY



PROFILE VIEW

DETAIL "D"

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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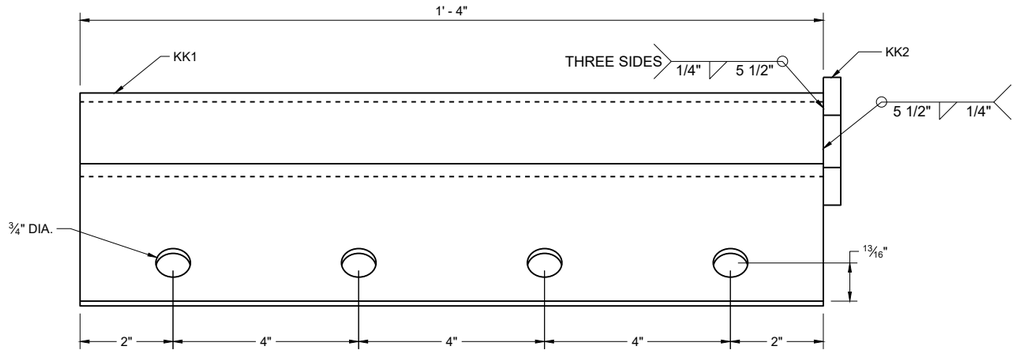
SDD 14B53-04c

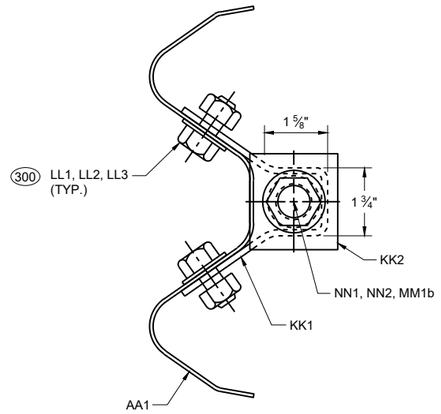
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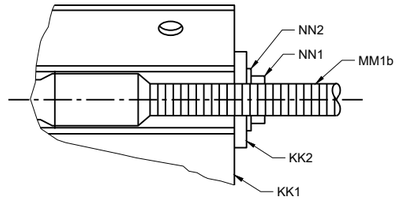
SDD 14B53-04c

GENERAL NOTES

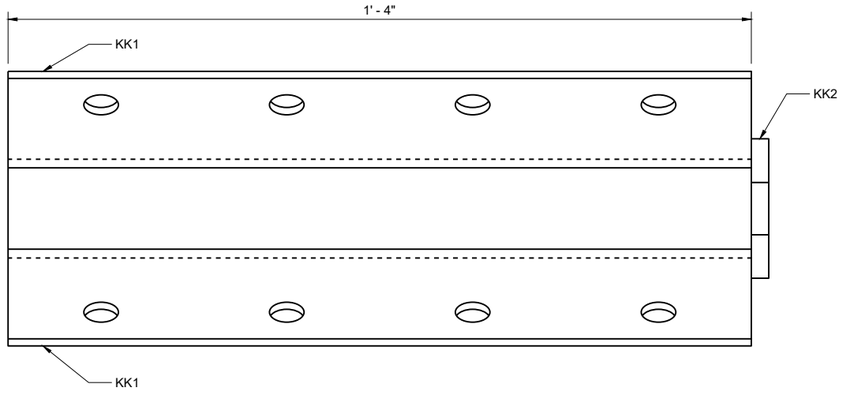
(300) WASHERS REQUIRED BETWEEN BOLT HEAD AND BEAM GUARD RAIL AND BETWEEN NUT AND ANCHOR BRACKET. EIGHT (8) LL1 AND LL3 REQUIRED. SIXTEEN (16) LL2 REQUIRED.

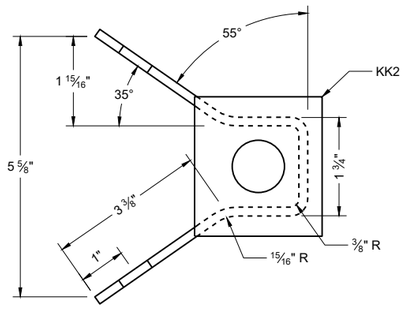




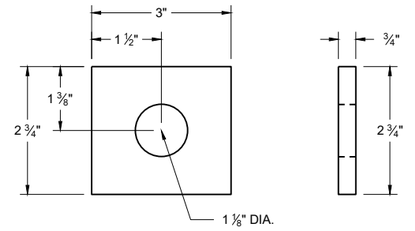


SECTION A - A





ANCHOR BRACKET (KK1, KK2)



ANCHOR BRACKET BEARING PLATE (KK2)

6

6

SDD 14B53-04d

SDD 14B53-04d

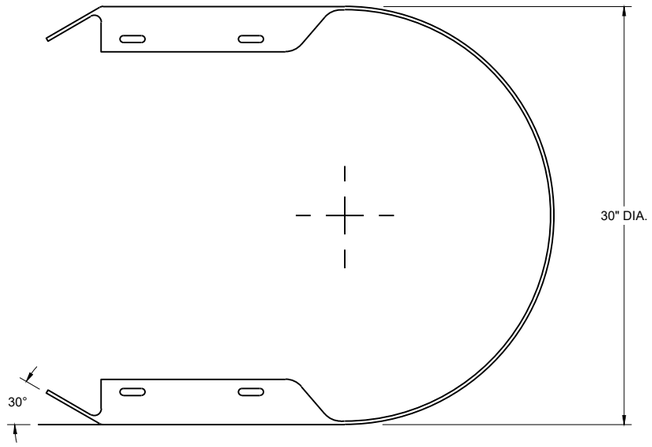
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

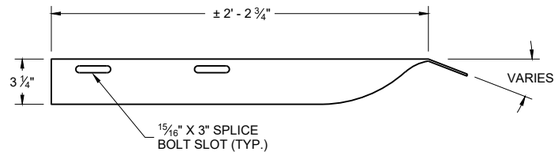
GENERAL NOTES

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

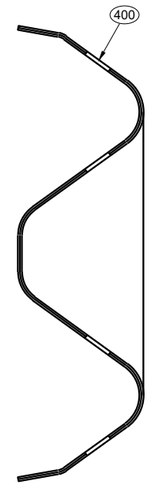
(401) CROSS SECTION OF PART IS TO FIT OVER OR UNDER AA1 .



TOP VIEW



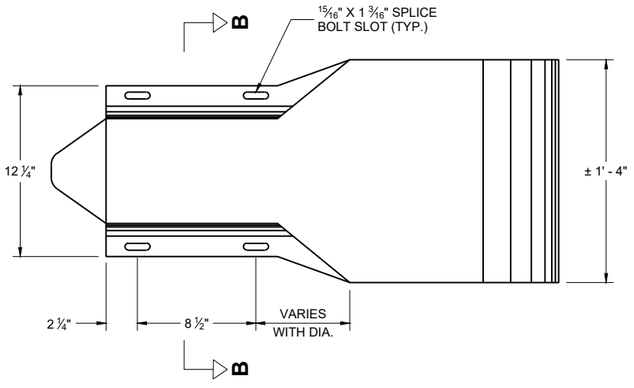
TOP VIEW



SECTION B -B

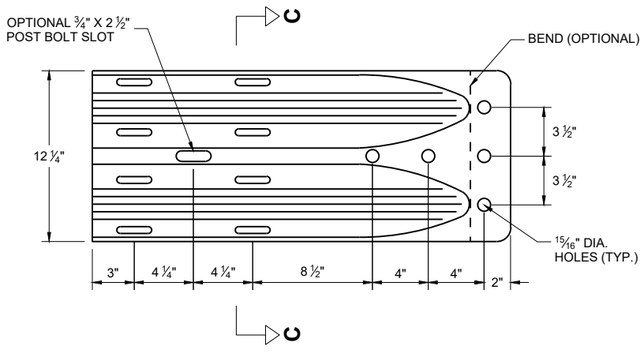


SECTION C -C



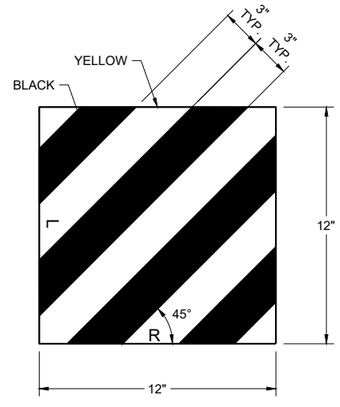
PROFILE VIEW

W BEAM
END SECTION BUFFER (AA2)



PROFILE VIEW

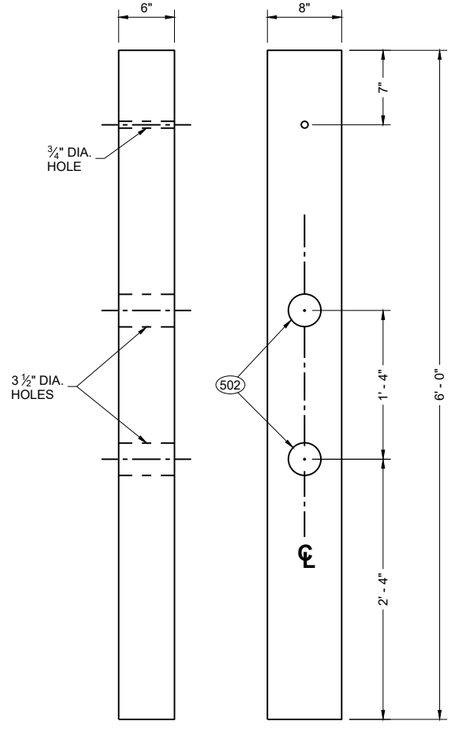
W BEAM
TERMINAL CONNECTOR (BB1)



REFLECTIVE SHEETING (UU1, UU2)

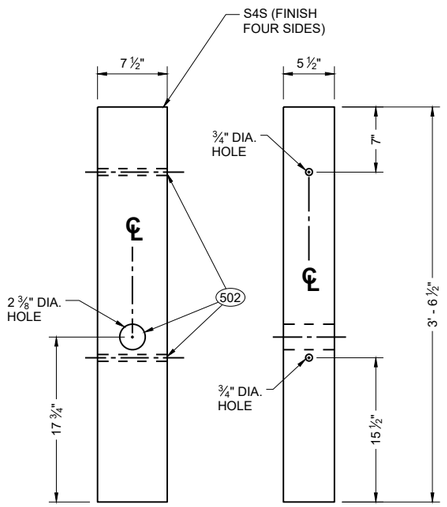
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



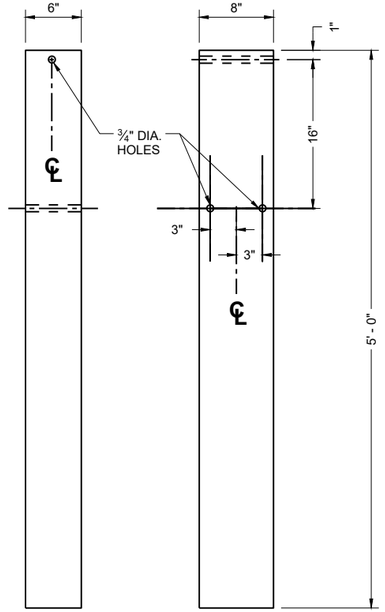
FRONT VIEW SIDE VIEW

CONTROLLED RELEASE POST (CRT) (DD2)



FRONT VIEW SIDE VIEW

WOOD BREAKAWAY POST (FF1)



FRONT VIEW SIDE VIEW

FOUNDATION TUBE (QQ1) (500)

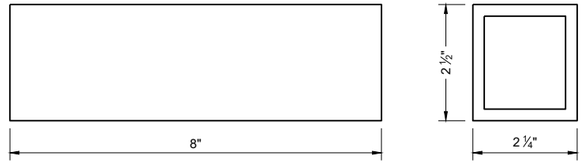
GENERAL NOTES

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

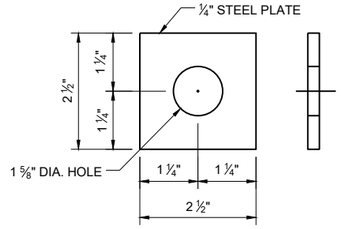
(501) FOR MM1a THREADED STUD ONLY REQUIRED ON ONE END. SWAGED FITTING REQUIRED.

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

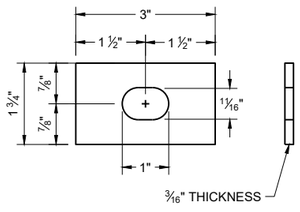
(503) MM1a MAY HAVE ONE THREADED STUD 4 INCHES LONG. SEE NOTE (109)



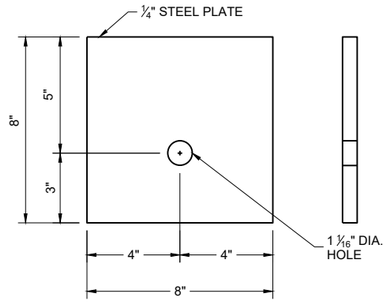
FOUNDATION TUBE - ANCHOR CABLE TUBE (QQ2)



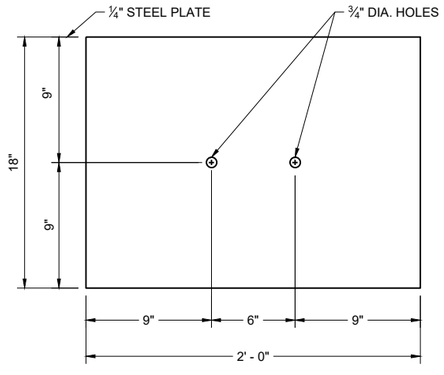
ANCHOR CABLE TUBE END PLATE (QQ3)



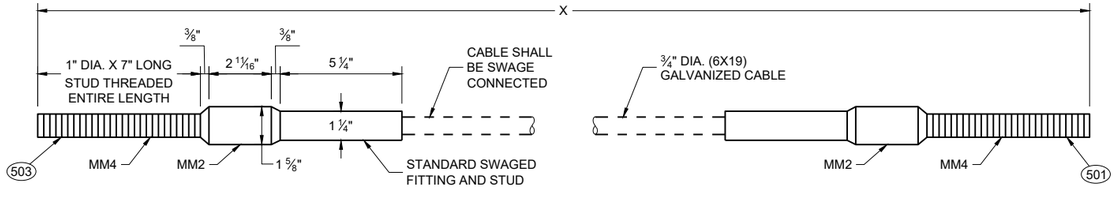
RECTANGULAR PLATE WASHER (CC1)



BEARING PLATE (PP1)



SOIL PLATE (SS1)



CABLE ASSEMBLY (MM1a, MM1b)

"X" LENGTH

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	BEAM GUARD RAIL	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
A2	BEAM GUARD RAIL - SHOP BENT	INDICATE ON BACK OF RAIL THE RADIUS THAT RAIL WAS BENT TO. SHOP BEND RADIUS IS TO THE NEAREST FOOT. FOLLOW AASHTO M180 ON HOW TO MARK RADIUS INFORMATION.	
		AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
B1	BLOCK - WOOD	WISDOT SPEC. 614	SEE SDD 14B42
C1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEAD)	
D1	POST-STRONG POST-WOOD	WISDOT SPEC. 614	SEE SDD 14B42
D2	POST-CRT-WOOD	WISDOT SPEC. 614	
E1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
E2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
E3	POST BOLT - NUT	AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
F1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
F2	SPLICE BOLT - NUT	ASTM A563 GRADE A	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
G1	LAG SCREW	ASTM A308 GRADE A ASTM A153 CLASS D	1/2" DIA. 6" LONG
H1	DELINEATOR - BEAM GUARD		SEE SDD 14B42 FOR MORE INFORMATION
H2	DELINEATION - SHEETING	YELLOW OR WHITE	
		WISDOT SPEC 637 TYPE SH	
		APPROVED PRODUCT LIST	
J1	FOUNDATION BACKFILL	STANDARD SPEC. 614	
AA1	BEAM GUARD RAIL - PUNCHED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
AA2	BEAM GUARD RAIL - END SECTION BUFFER	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
BB1	BEAM GUARD RAIL - TERMINAL CONNECTOR MODIFIED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
CC1	SHORT RADIUS - SQUARE WASHER	AASHTO M180	
		GALV. AASHTO M111 / ASTM A123	
EE1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)	
FF1	POST - BCT - WOOD	S4S FINISH ON 4 SIDES	
		WISDOT SPEC. 614	
GG1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
GG2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	3/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329	

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B53-04g

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
GG3	POST BOLT - NUT	ASTM A563 GRADE A	3/8" DIA. SEE 14B42 FOR GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
HH1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180 HEAD GEOMETRY	
HH2	SPLICE BOLT - NUT	ASTM A563 GRADE A	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
JJ1	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	10" O.D.
JJ2	TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 3/8" X 4" X 1' - 0"
		GALV. AASHTO M111 / ASTM A123	
KK1	ANCHOR BRACKET	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
KK2	ANCHOR BRACKET - BEARING PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
LL1	ANCHOR BRACKET - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	5/8" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
LL2	ANCHOR BRACKET - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
LL3	ANCHOR BRACKET - NUT	ASTM A563 GRADE A	5/8" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
MM1a	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM1b	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM2	ANCHOR CABLE - SWAGE FITTING	ASTM A576 GRADE 1035	
		SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. WITH A BREAKING STRENGTH 40,000 LBS.	
		GALV. AASHTO M111 / ASTM A123	
		ASME B30.26 FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING INTO CONNECTION: NAME OF MANUFACTURER OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE.	
MM3	WIRE ROPE CABLE CLAMPS	FF-C-450D TYPE 1 CLASS 1	3/4"
		ASTM A153 HOT DIP CLASS D	
MM4	ANCHOR CABLE - SWAGE FITTING - STUD	ASTM F3125 GRADE A325 TYPE 1 OR SAE GRADE 5 OR ASTM A449 TYPE 1 HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
NN1	ANCHOR CABLE - NUT	ASTM A563 GRADE A	1" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
NN2	ANCHOR CABLE - NUT - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	1" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B53-04h

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
PP1	BEARING PLATE AT POST	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
PP2	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	2" DIA. x 6" LONG
QQ1	FOUNDATION TUBE	ASTM A500 GRADE B	8" X 6" X 3/16"
		GALV. AASHTO M111 / ASTM A123	
QQ2	SHORT RADIUS - FOUNDATION TUBE - ANCHOR CABLE - TUBE	ASTM A500 GRADE B	DIMENSIONS 2 1/2" X 2 1/4" X 1/4" X 8"
		GALV. AASHTO M111 / ASTM A123	
QQ3	SHORT RADIUS - SOIL TUBE - ANCHOR CABLE - TUBE - END PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 2 1/2" X 2 1/2" X 1/4"
		GALV. AASHTO M111 / ASTM A123	
QQ4	GROUND STRUT AND YOKE - BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8 DIA.
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	
		UNC	
QQ5	GROUND PLATE AND YOKE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8 DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
QQ6	GROUND STRUT AND YOKE - NUT	HEAVY HEX	5/8 DIA.
		UNC	
		ASTM A563 GRADE A	
		OVER TAPPED NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
SS1	SOIL PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / A123	
TT1	SOIL PLATE - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	5/8 DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
TT2	SOIL PLATE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8 DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
TT3	SOIL PLATE - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8 DIA.
UU1	OBJECT MARKER - SHEETING	MUTCD / WISDOT OBJECT MARKER TYPE 3	PATTERN AND COLOR FOR SHEETING. SHEETING TYPE FOR MARKER.
		WISDOT SPEC 637 TYPE F	
		APPROVED PRODUCT LIST	
UU2	OBJECT MARKER - ALUMINUM PLATE	WISDOT SPEC 637 ALUMINUM PLATE	MATERIAL AND THICKNESS OF MATERIALS
UU3	OBJECT MARKER - SCREWS	STAINLESS SELF-TAPPING SCREWS	
VV1	FOUNDATION BACKFILL	WISDOT SPEC 614	

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SDD 14B53-04i

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

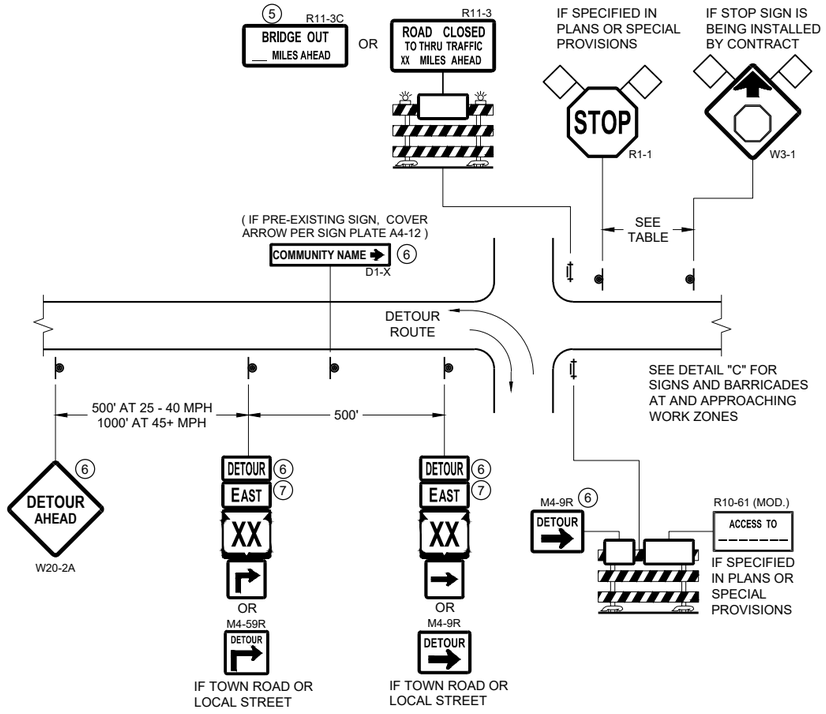
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

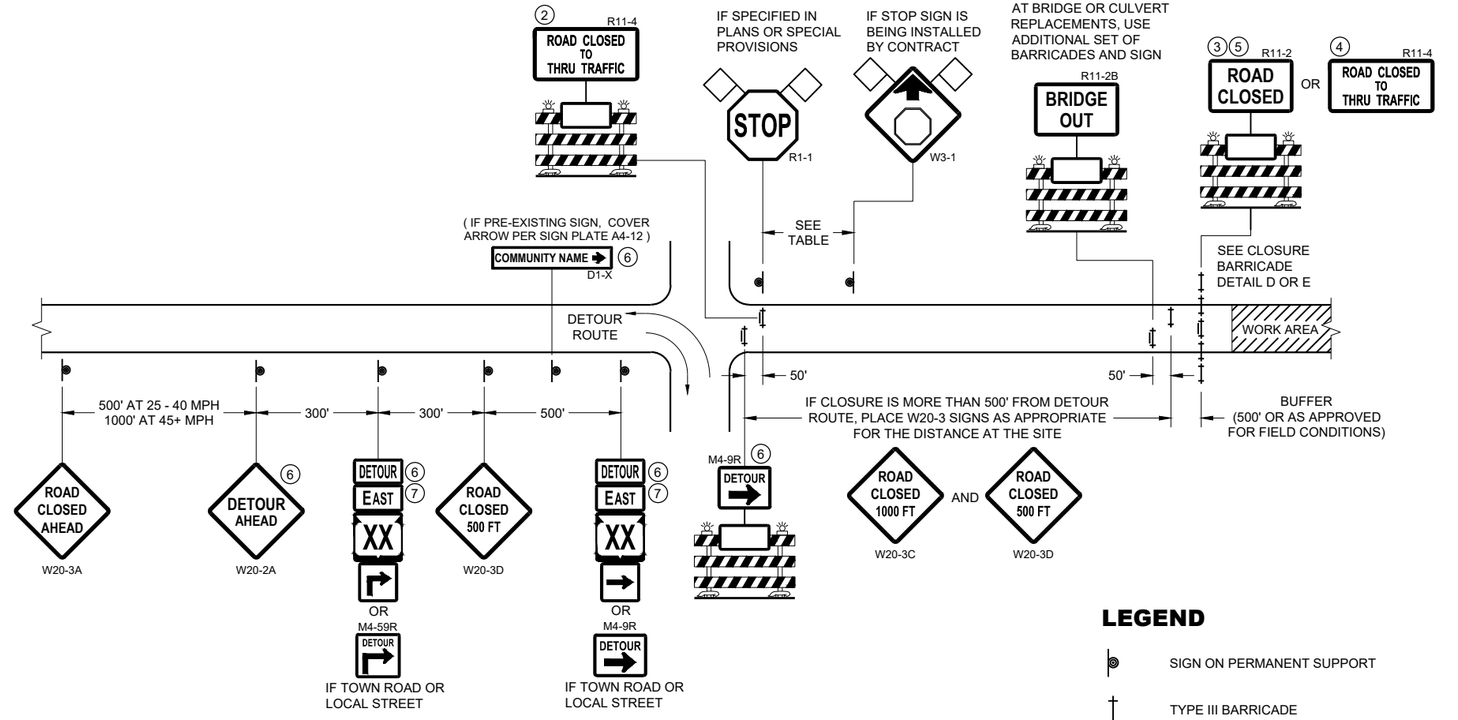
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SDD 14B53-04i



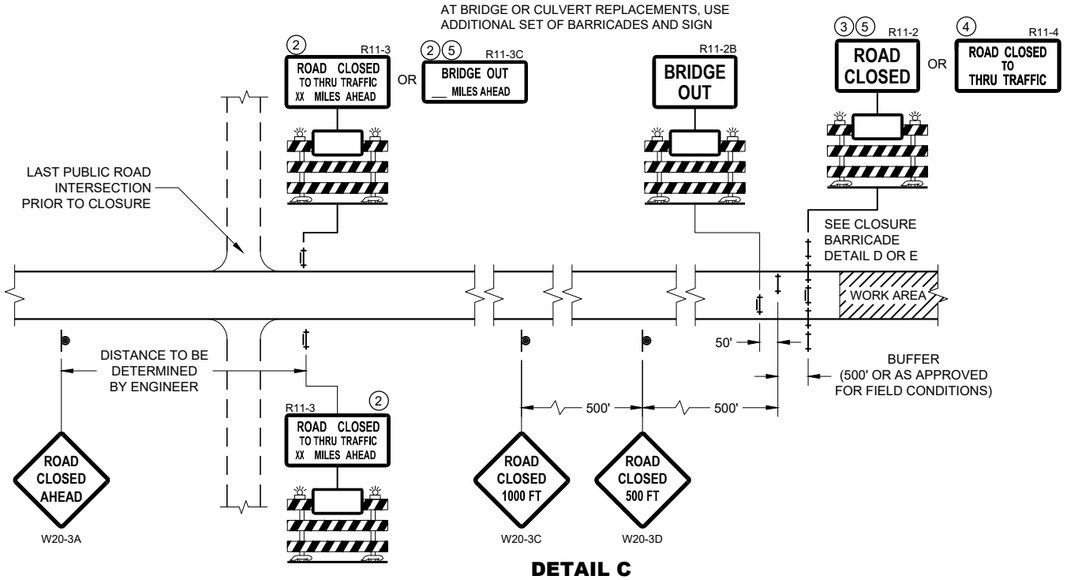
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

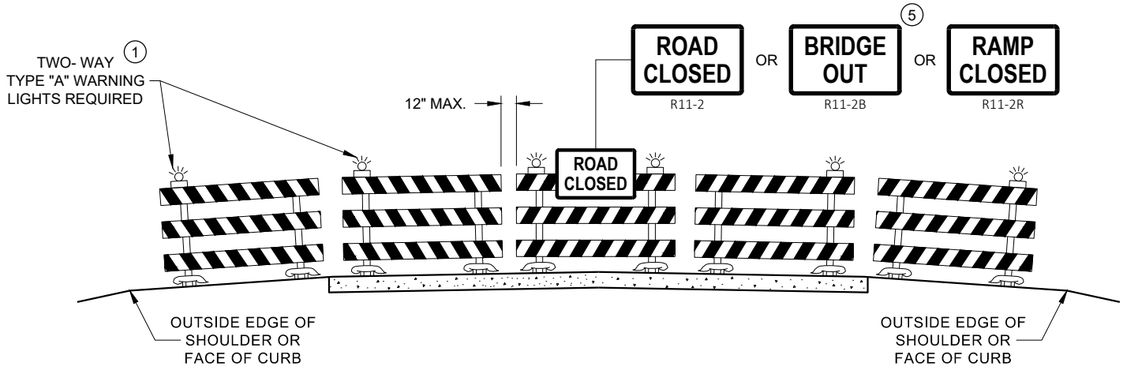
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

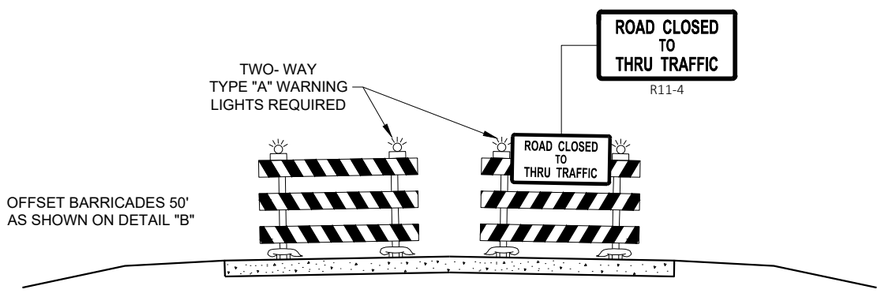
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SDD 15C02 - 09a

SDD 15C02 - 09a



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
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 09b

6

SDD 15C02 - 09b

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

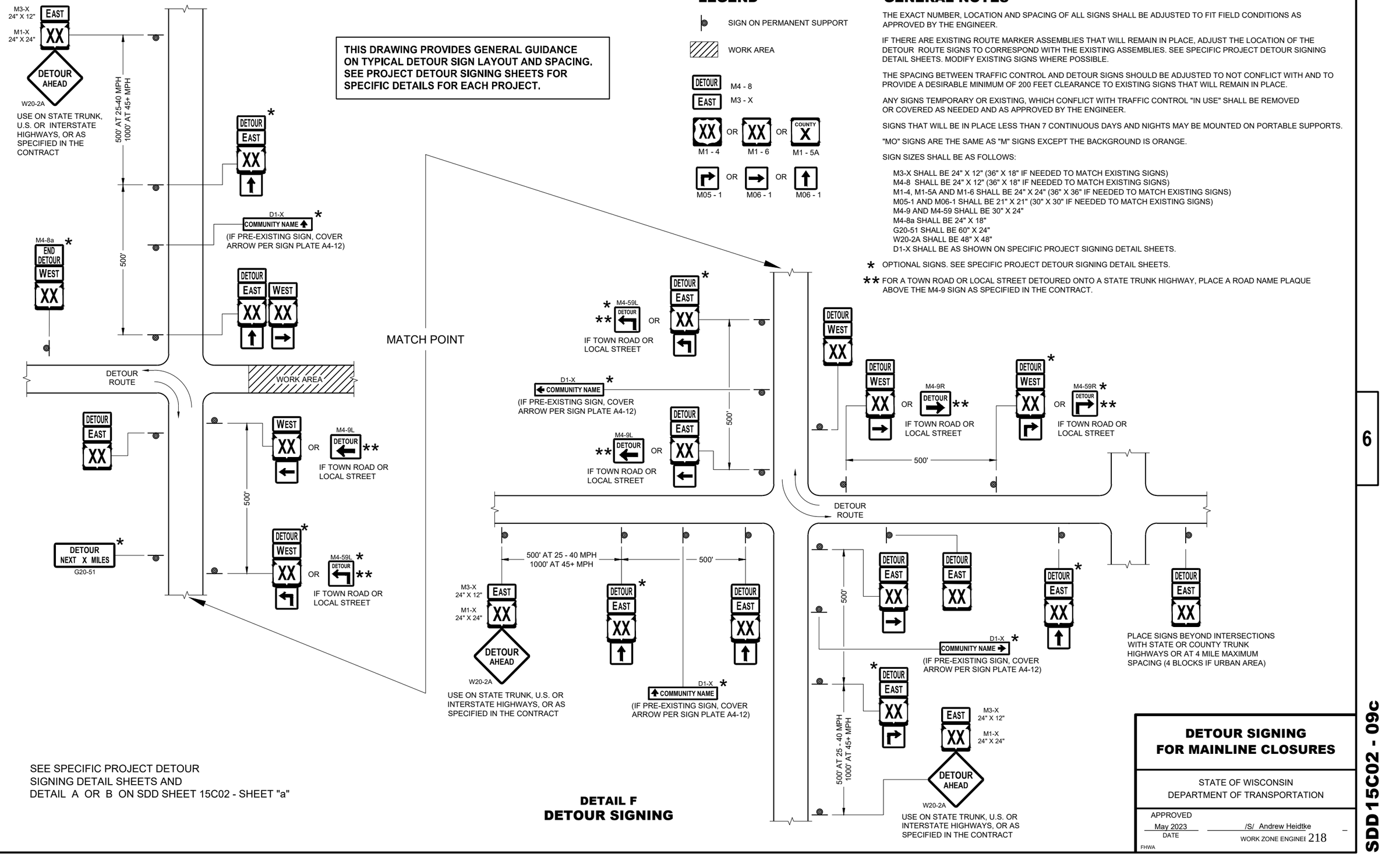
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

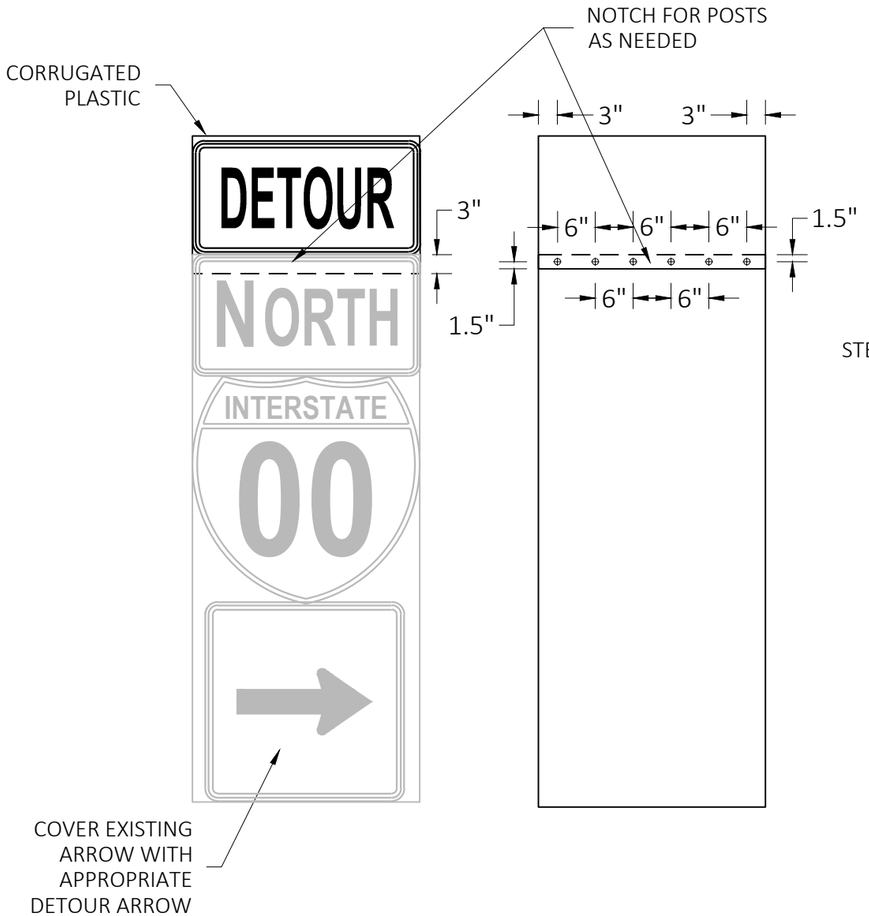
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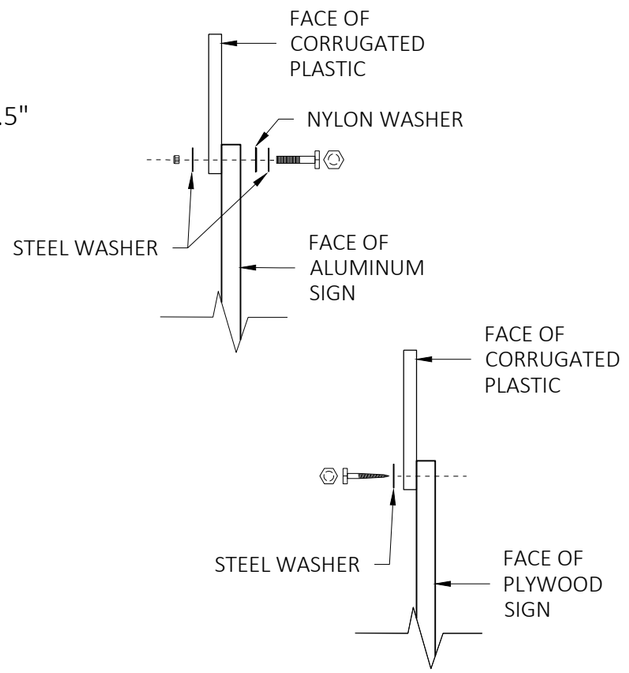
SDD 15C02 - 09c

FRONT SIDE

BACK SIDE

SIDE VIEW





GENERAL NOTES

CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED.

PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE.

FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN.

FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS.

METAL WASHERS, NUTS, BOLTS AND LAGS 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, SC3

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.

PLYWOOD SIGNS:
LAG SCREWS - 5/16" x 1"
ALUMINUM SIGNS:
MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS
WASHERS:
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

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVEL ENGINEER
FHWA

6
SDD 15C02-09h

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.

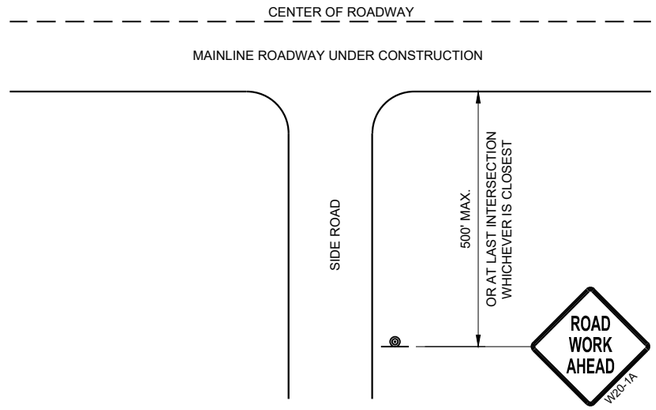
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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.



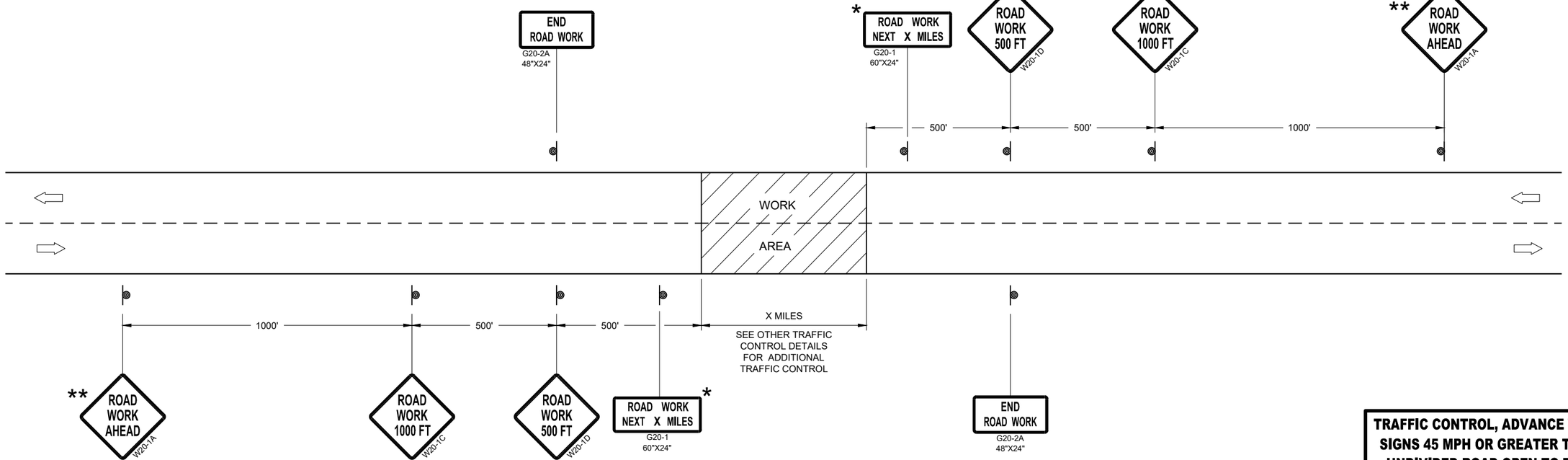
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

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

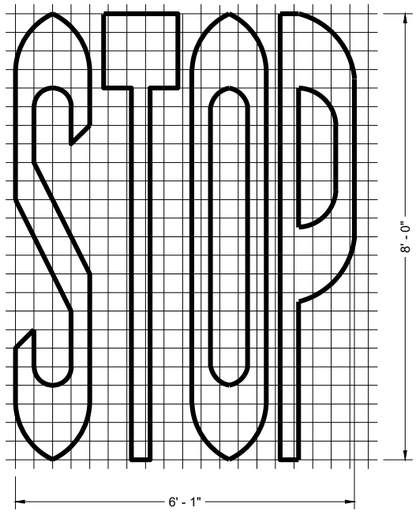
APPROVED
July 2018
DATE

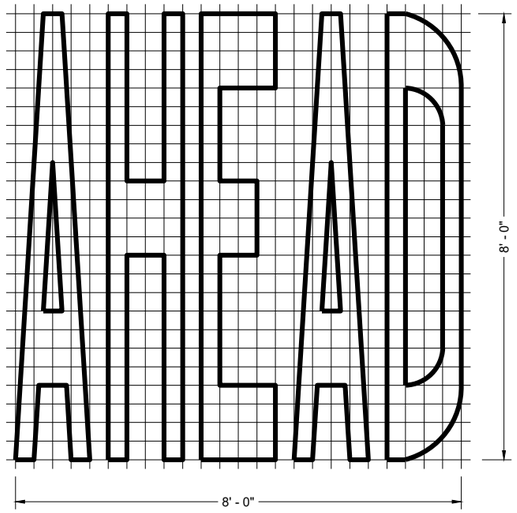
/S/ Andrew Heidtke
WORK ZONE ENGINEE

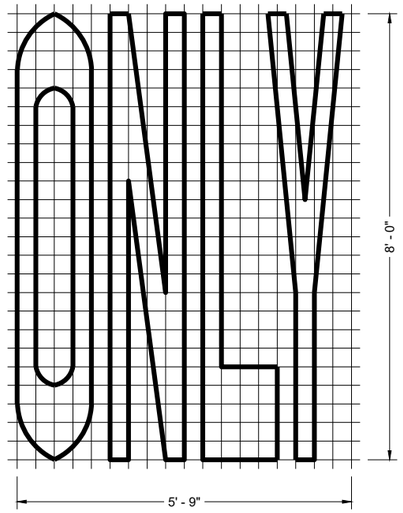
FHWA

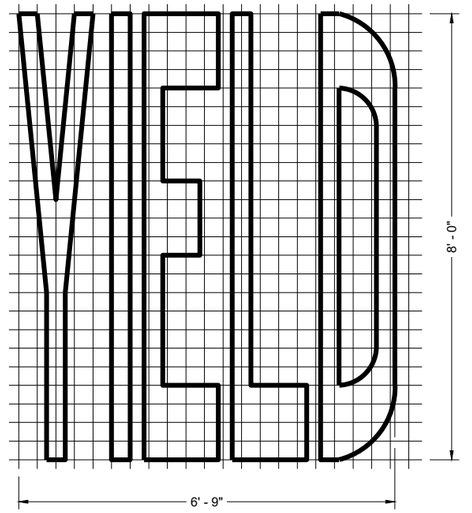
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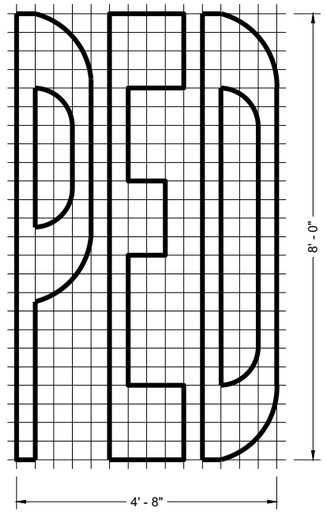
SDD 15C04 - 05

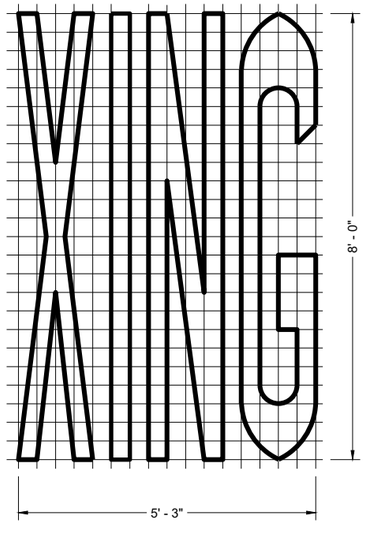


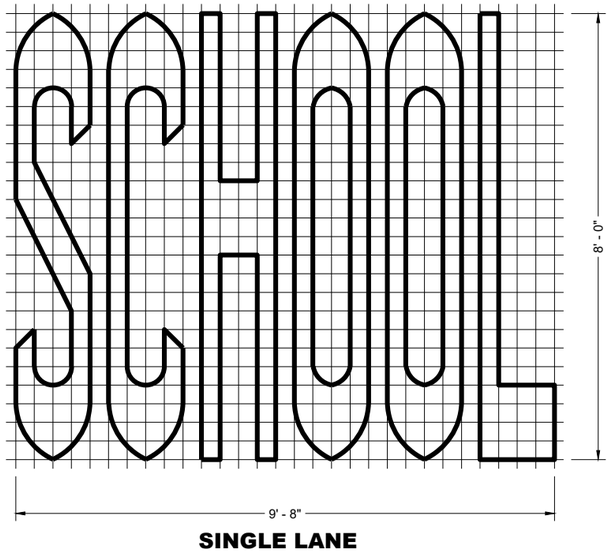




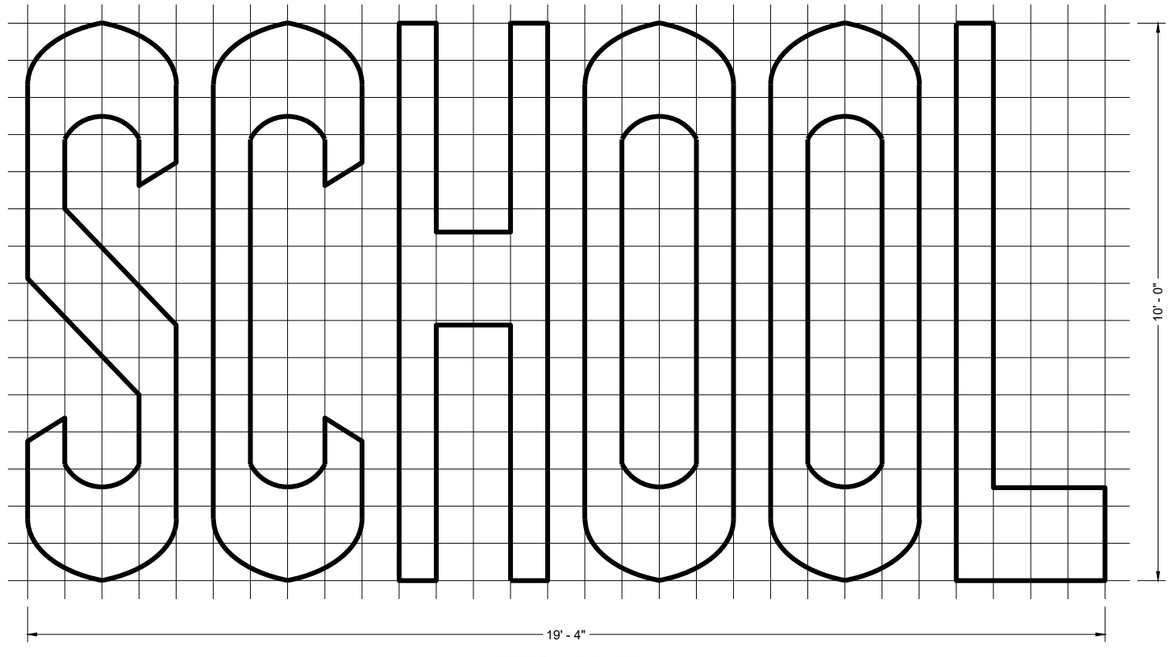








SINGLE LANE



TWO - LANE

GENERAL NOTES

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

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MARKING ENGINEER

FHWA

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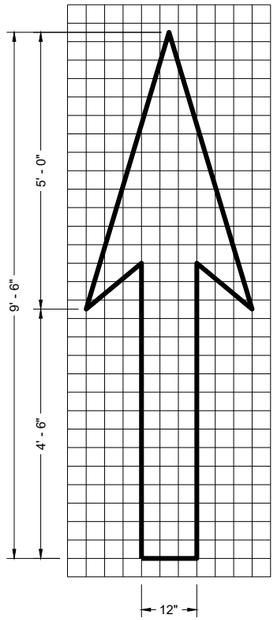
SDD 15C07-16b

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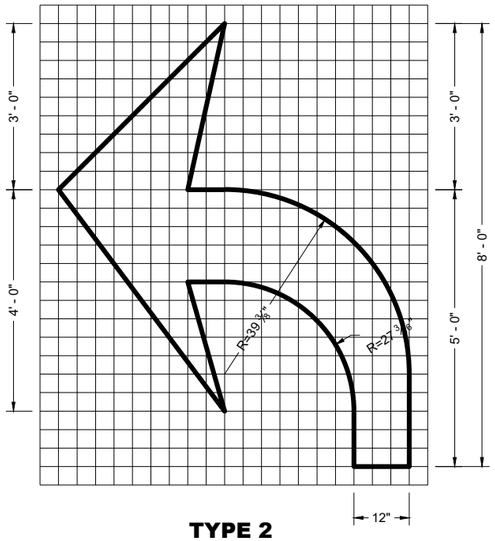
SDD 15C07-16b

GENERAL NOTES

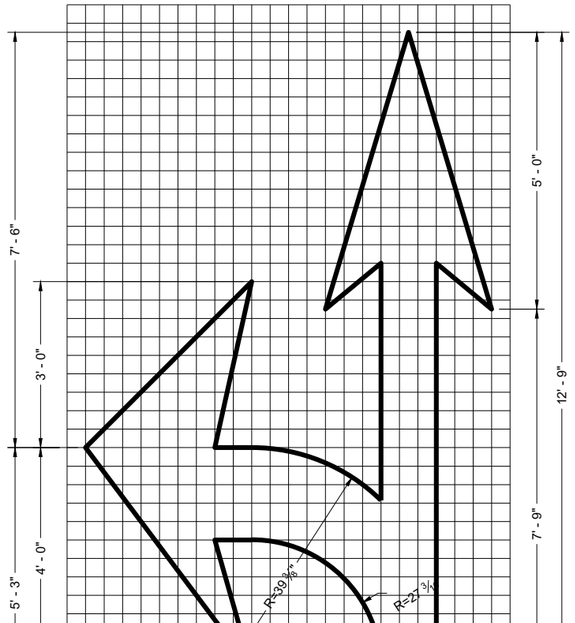
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



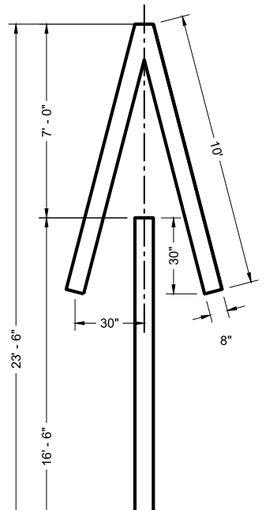
TYPE 1



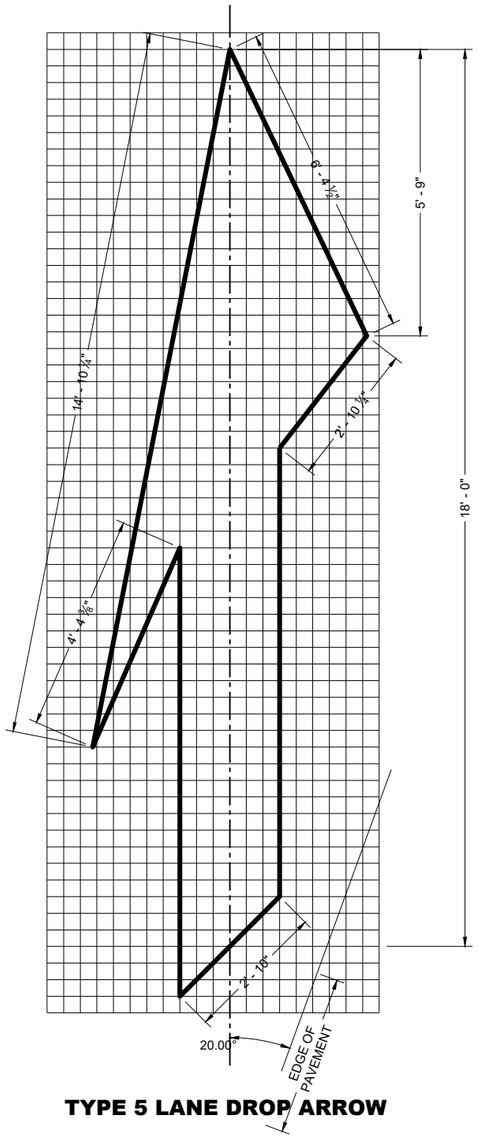
TYPE 2



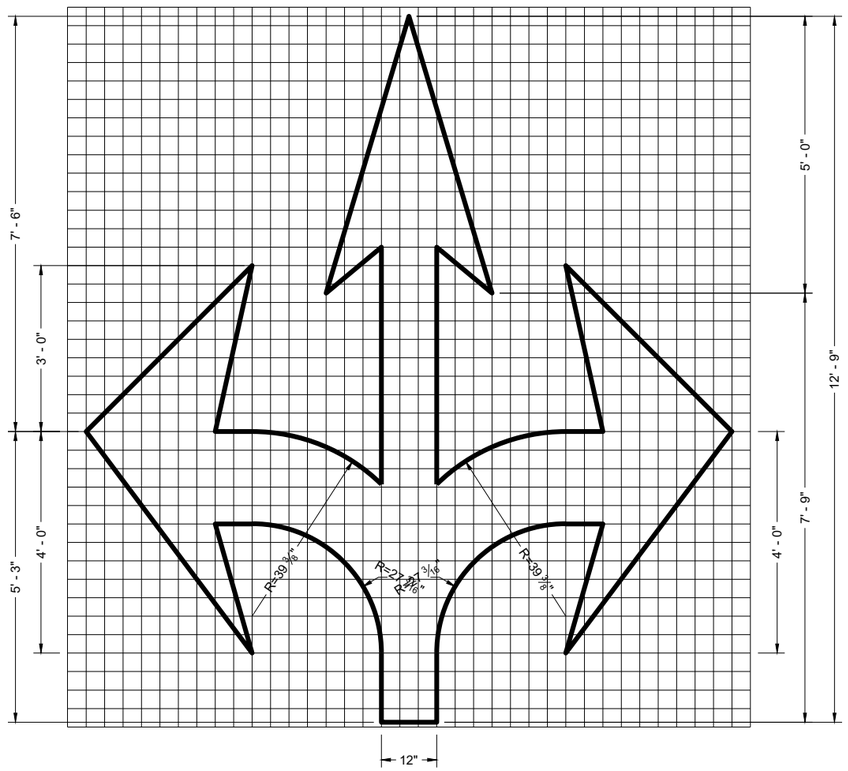
TYPE 3



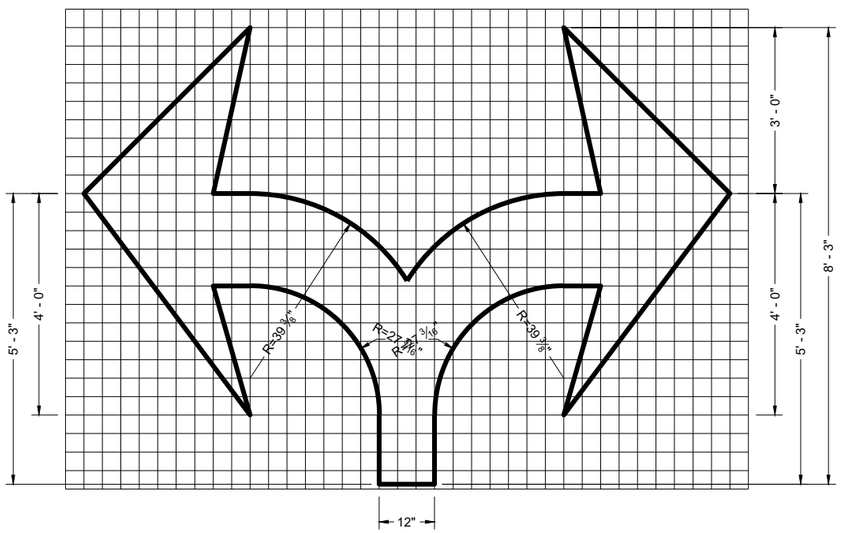
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MARKING ENGINEER

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SDD 15C07-16c

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.

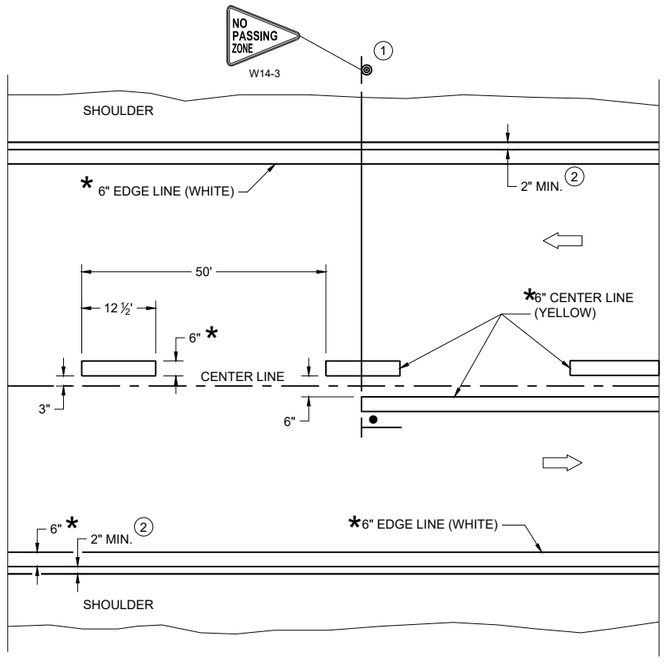
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

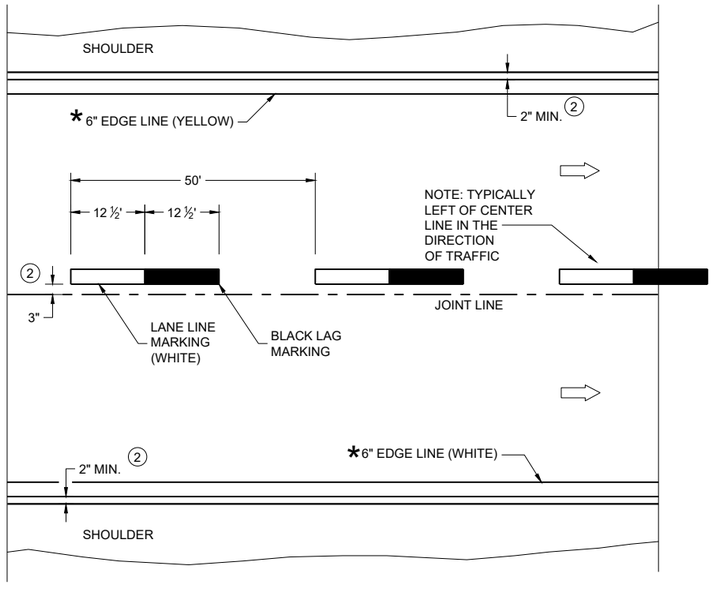
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC

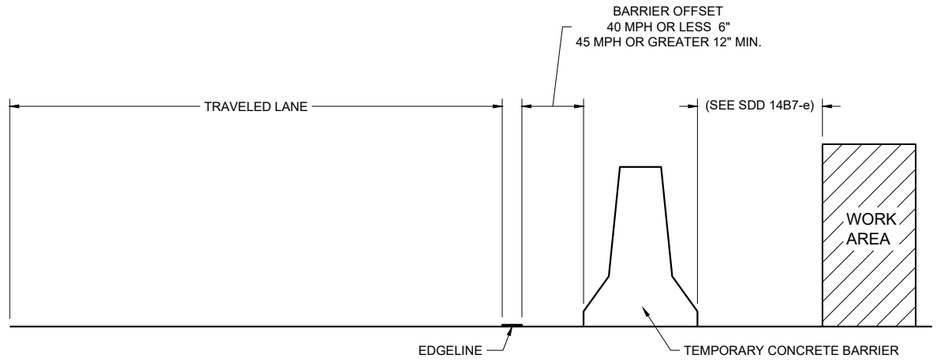


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2023 DATE	/S/ Jeannie Silver Statewide Pavement Marking Engineer
FHWA	

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SDD 15C08-23a



TEMPORARY BARRIER OFFSET FROM EDGELINE

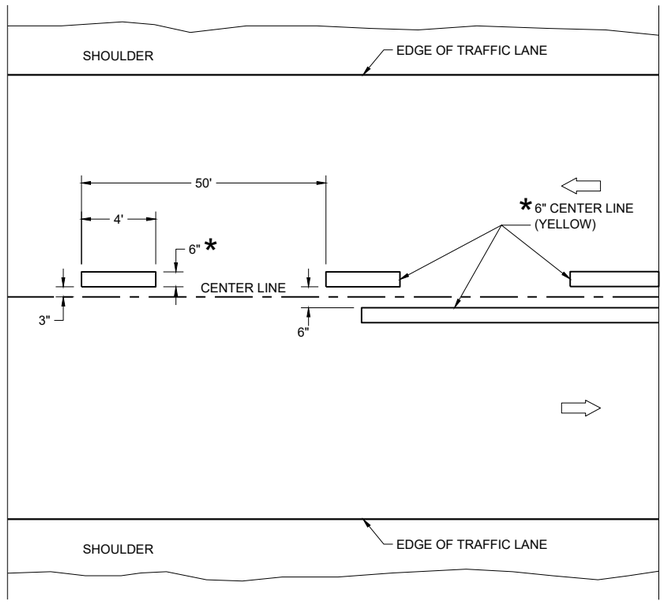
GENERAL NOTES

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

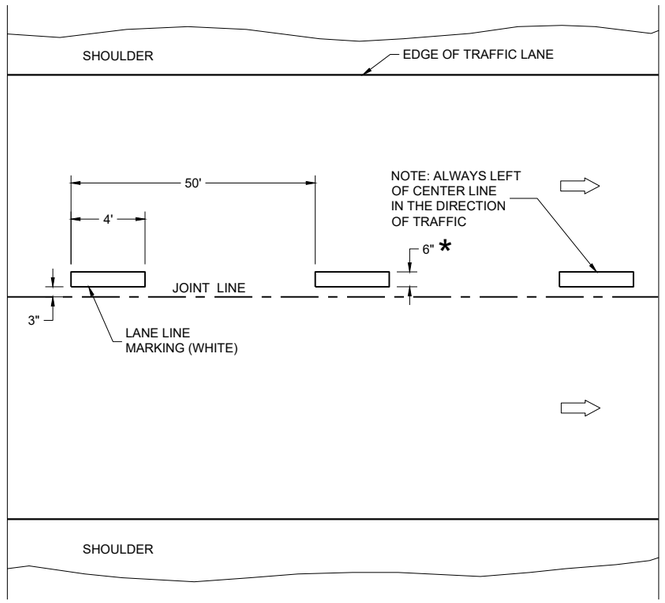
LEGEND

DIRECTION OF TRAFFIC

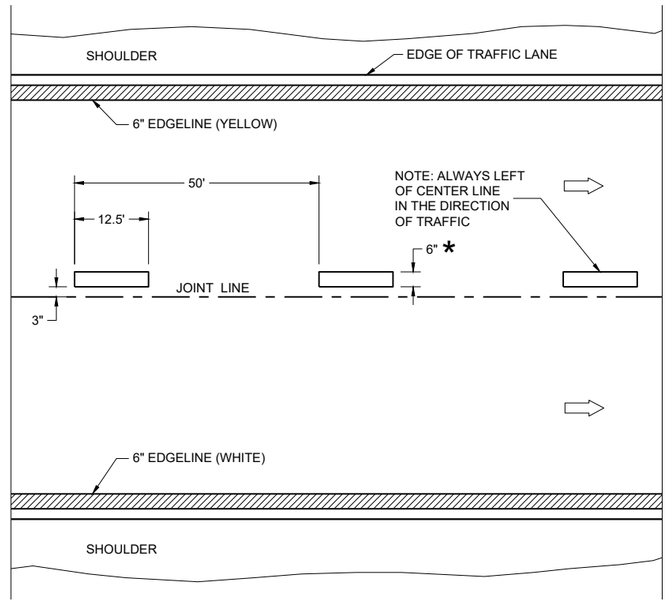
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer

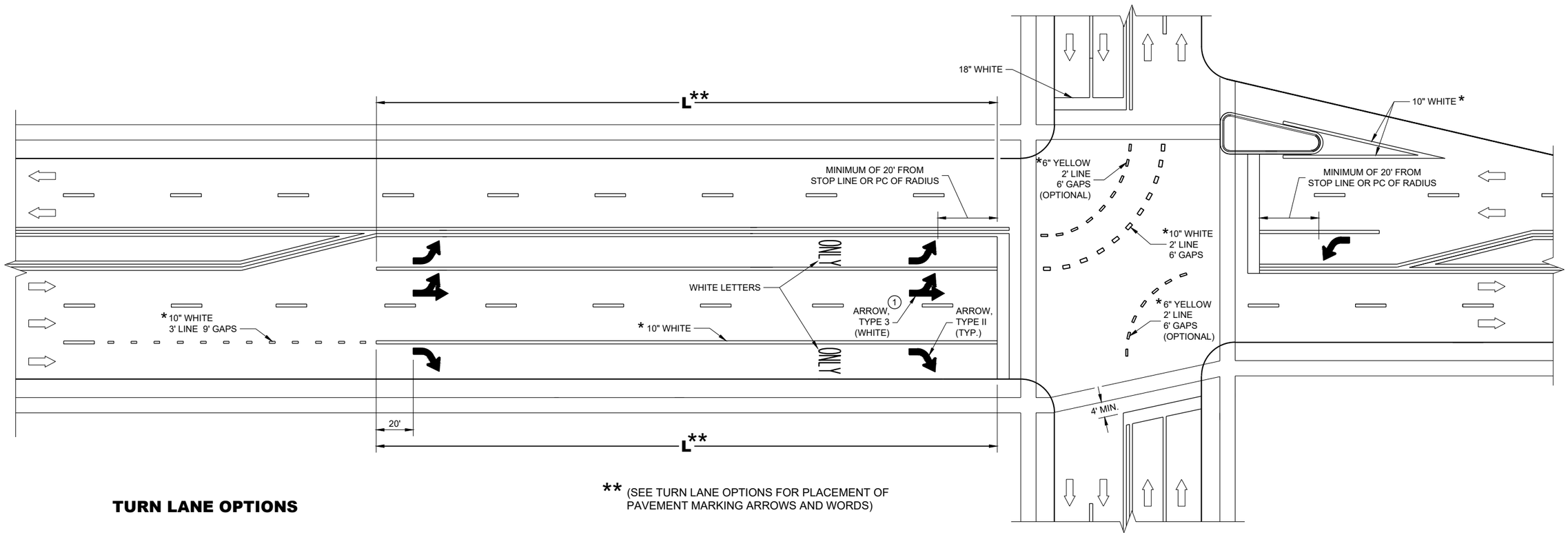
FHWA

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SDD 15C08-23b

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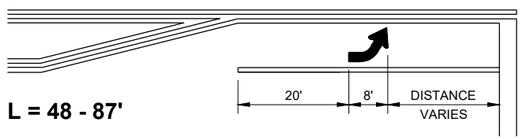
SDD 15C08-23b



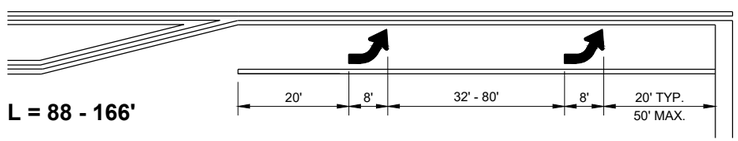
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

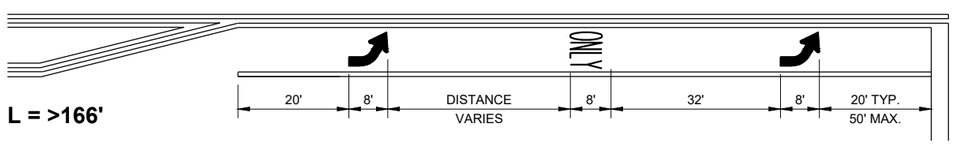
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

(1) QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

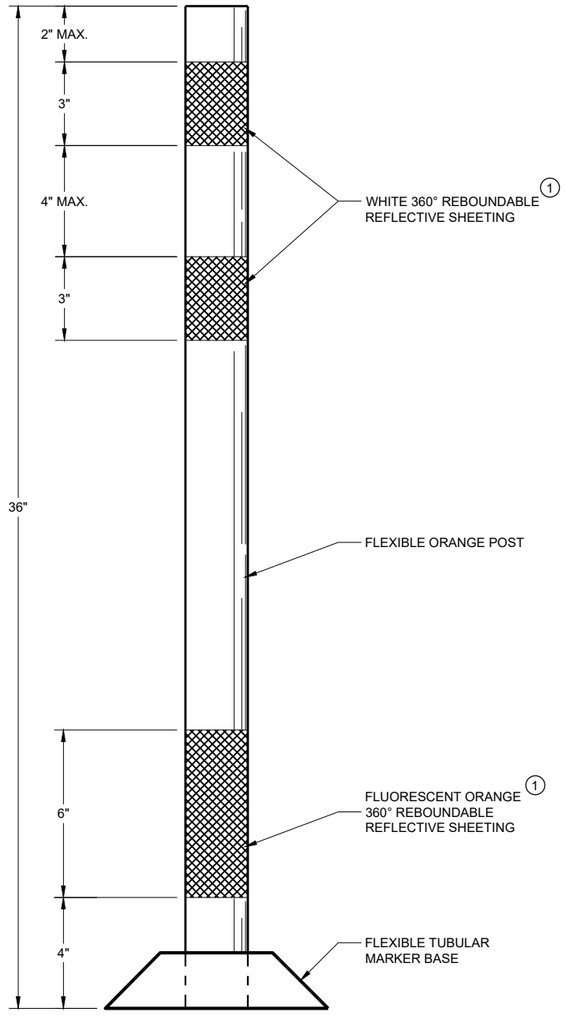
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C08-23d



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

6

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

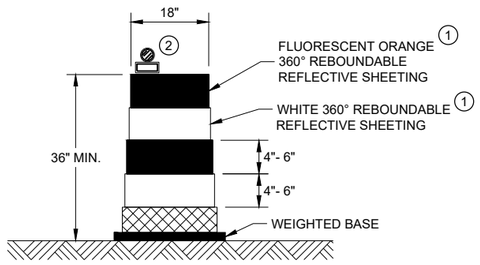
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

SDD 15C11 - 10a

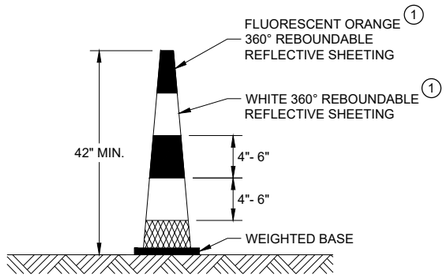
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

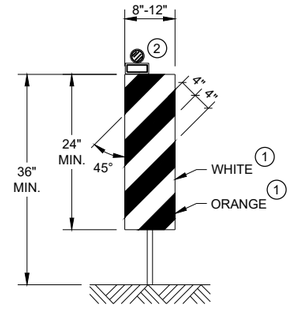
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

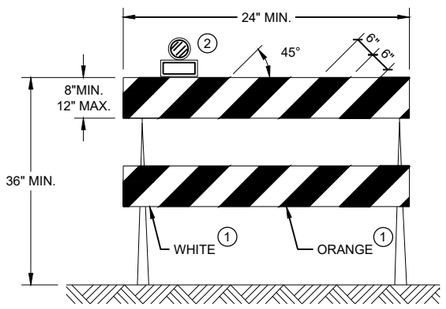
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



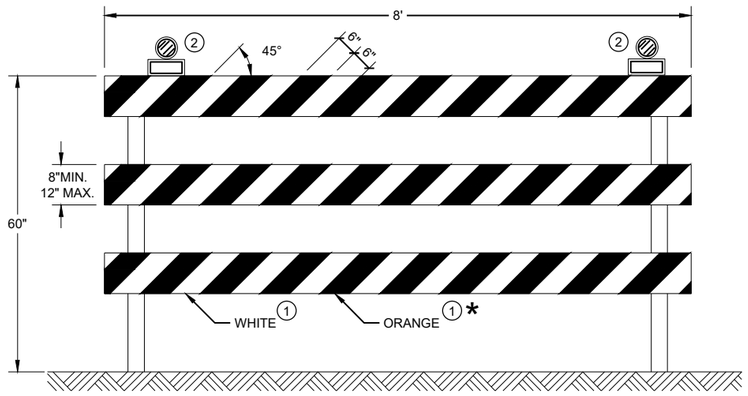
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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DATE

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SDD 15C11 - 10b
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LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

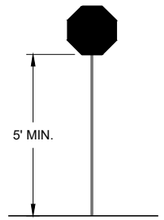
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF

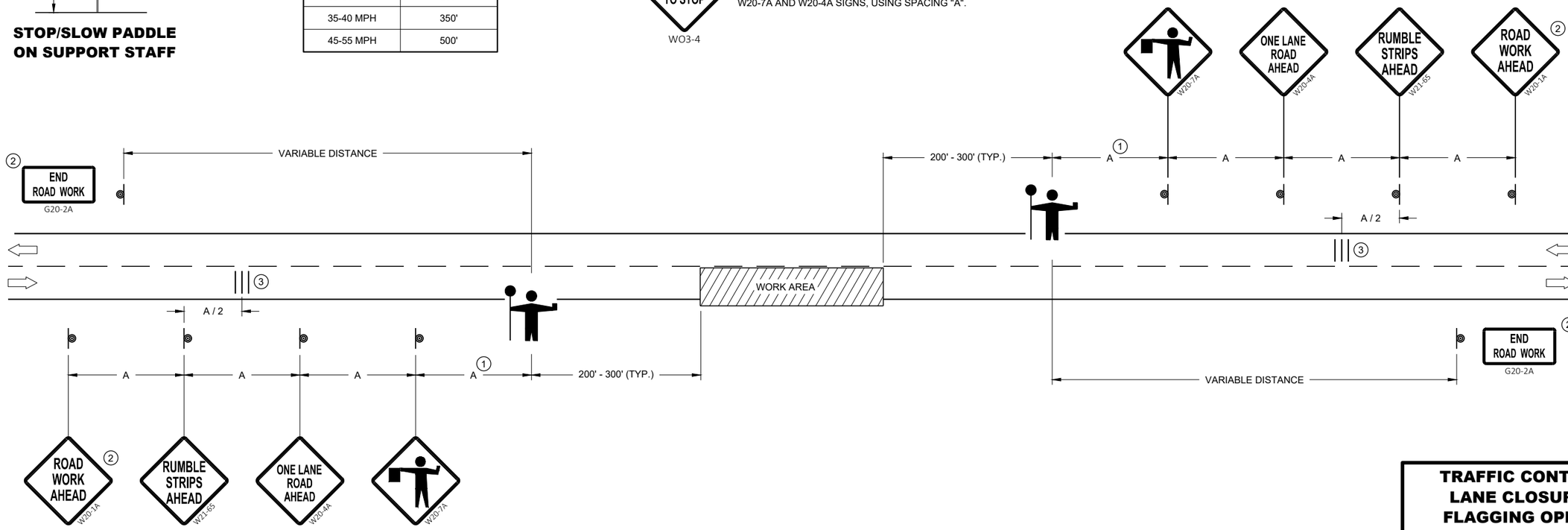
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C12 - 09a

6

SDD 15C12 - 09a

GENERAL NOTES

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL CONE 42-INCH

TRAFFIC CONTROL DRUM

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

AFAD — AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

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

IF THE AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) STOPS WORKING, 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.

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.

(1) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(2) IF FLAGGERS ARE PHYSICALLY NEEDED TO FLAG, REPLACE WO3-4 SIGNS WITH W20-7A SIGNS.

TEMPORARY PORTABLE RUMBLE STRIPS

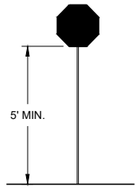
UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

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.

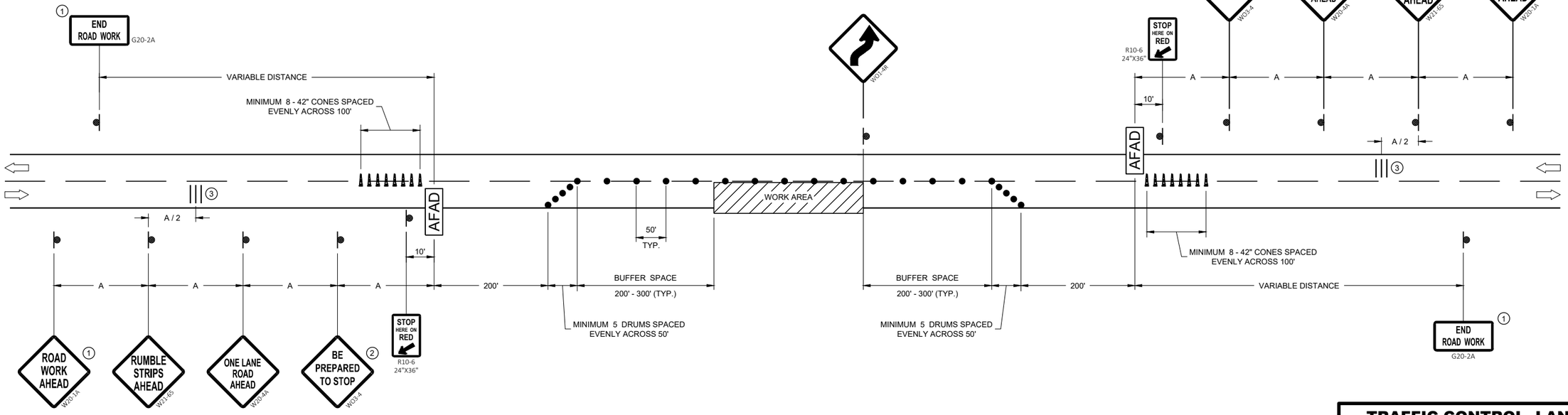
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



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'



TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

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SDD 15C12 - 09b

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SDD 15C12 - 09b

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.

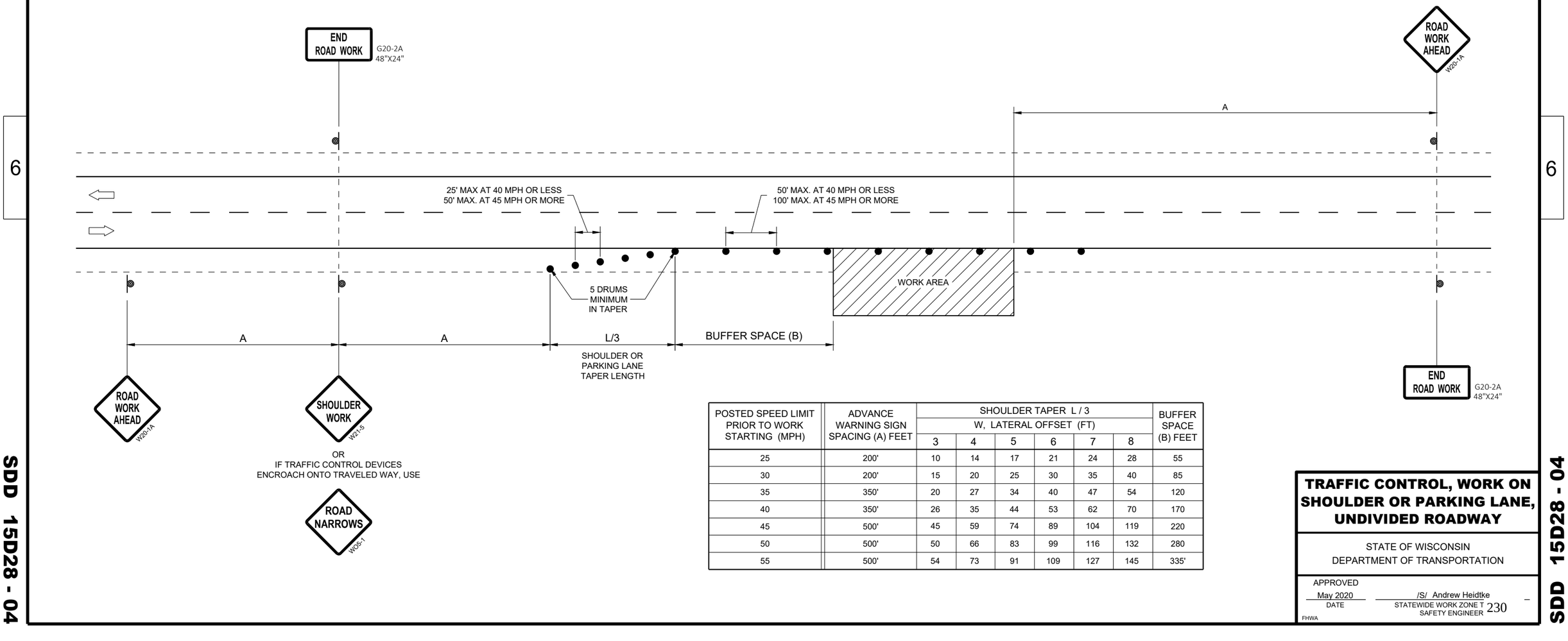
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

SDD 15D28 - 04

SDD 15D28 - 04

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

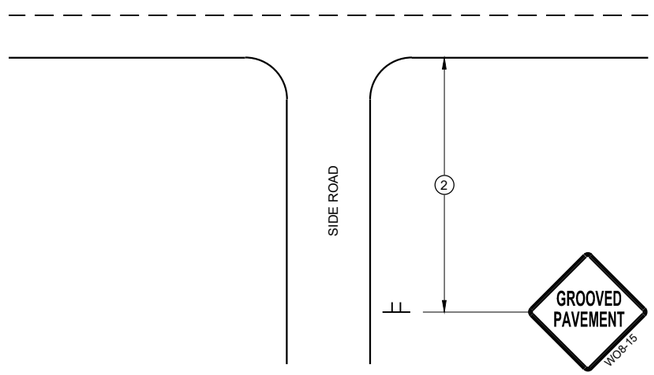
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

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

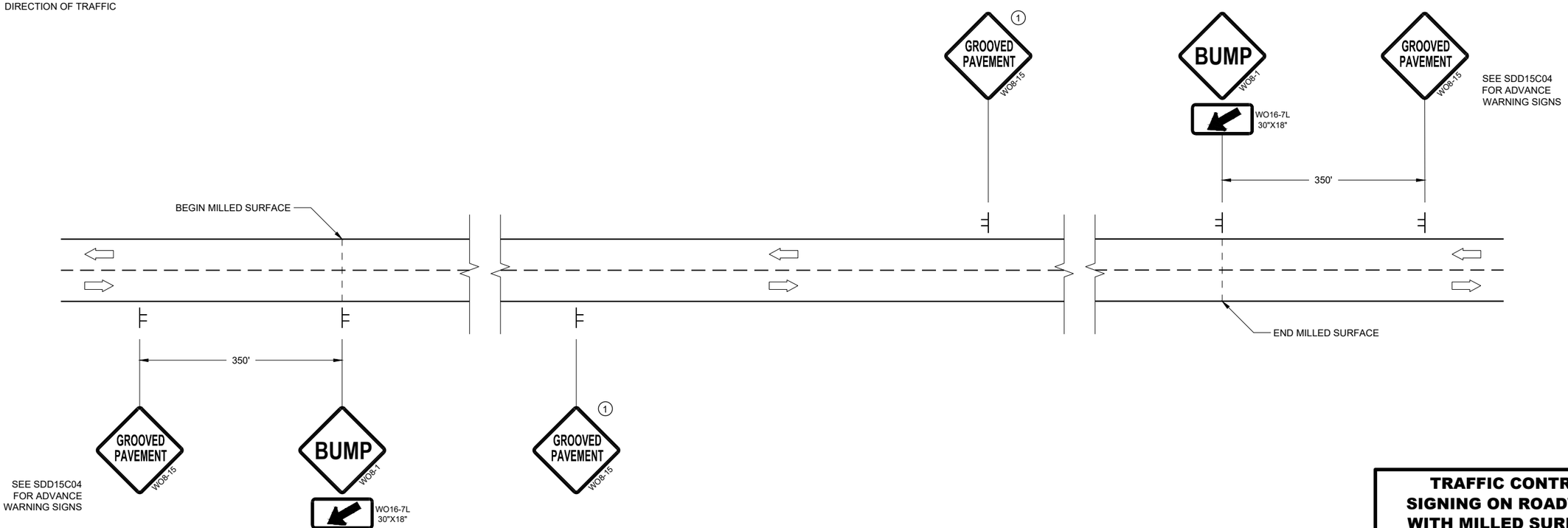
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6
SDD 15D44 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

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

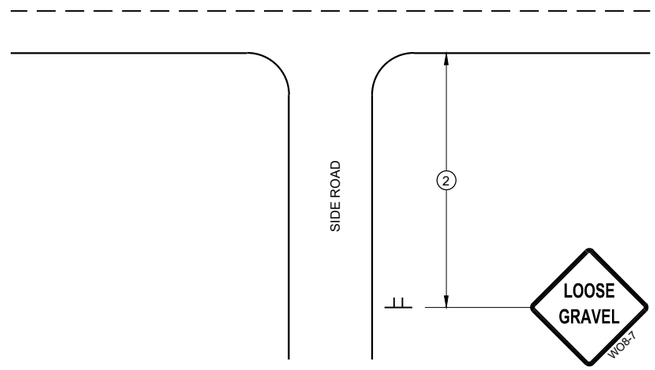
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

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

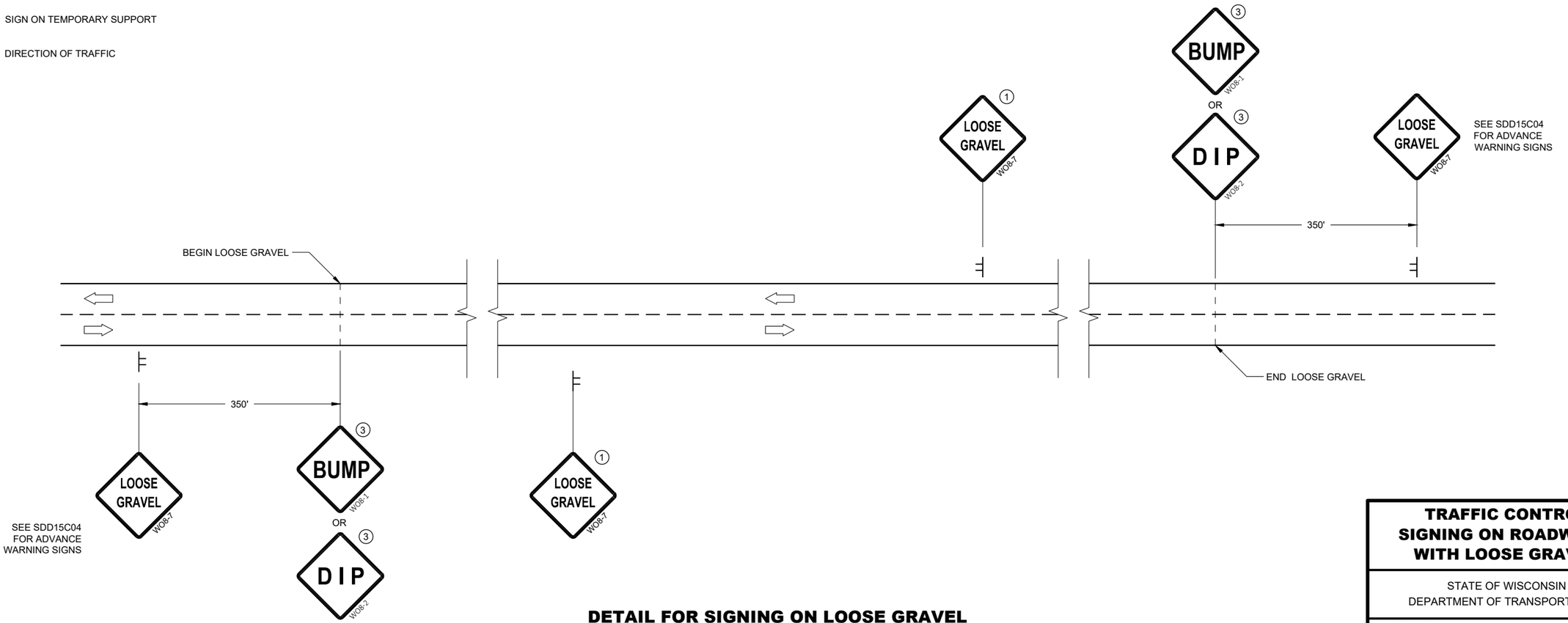
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

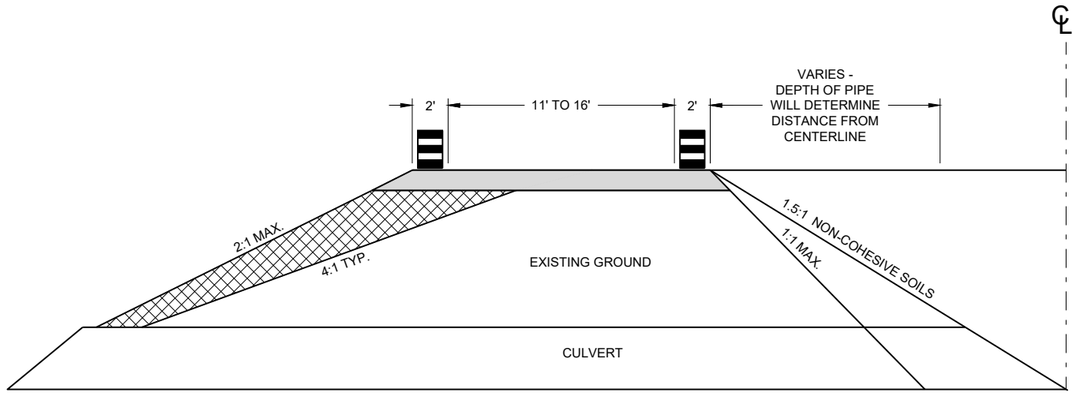
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February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15D45 - 03



CROSS SECTION

GENERAL NOTES

USE 1:1 FOR COHESIVE CLAYS AND SILTS, LOAMS, SANDY CLAYS AND ANGULAR GRAVEL SOILS.
USE 1.5:1 FOR NON-COHESIVE SOILS.

THE TAPER SHOULD EXTEND ACROSS THE SHOULDER UNLESS DOING SO WOULD GREATLY CONFLICT WITH THE WORK OPERATION.

ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL DEVICES REMOVED BEYOND THE SHOULDER WHEN WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.

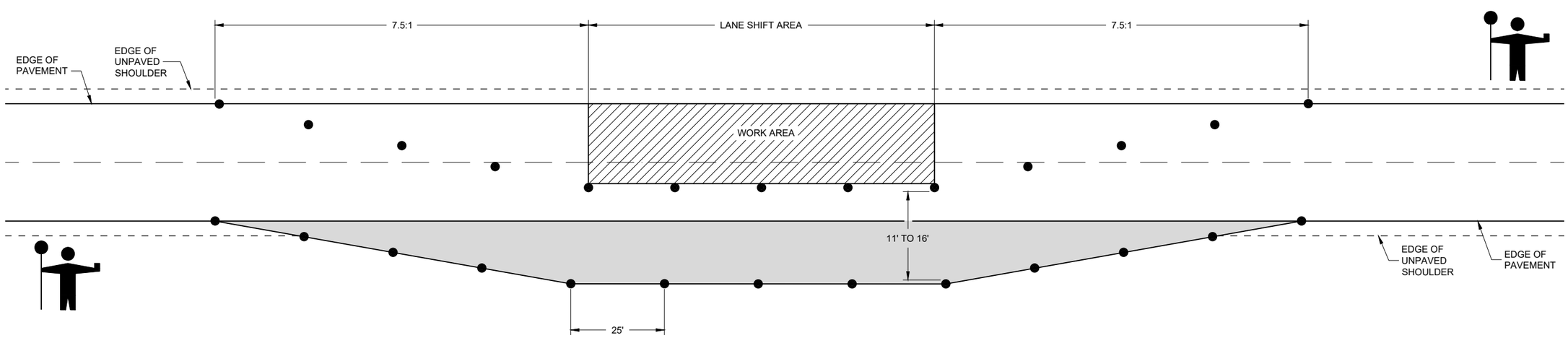
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

USE WITH SDD 15C12 "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"

USE WITH SDD 15D45 "SIGNING ON ROADWAYS WITH LOOSE GRAVEL"

LEGEND

- DRUM WITHOUT WARNING LIGHT
- 6" BASE AGGREGATE DENSE 1 ¼" -INCIDENTAL TO LANE SHIFT ITEM
- FILL - INCIDENTAL TO LANE SHIFT ITEM
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



LANE SHIFT IN FLAGGING OPERATION

TRAFFIC CONTROL, TEMPORARY LANE SHIFT DURING CULVERT WORK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15D48 - 01

6

SDD 15D48 - 01

LEGEND

V1 WORK VEHICLE

V2 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

WORK AREA

DIRECTION OF TRAFFIC

POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.

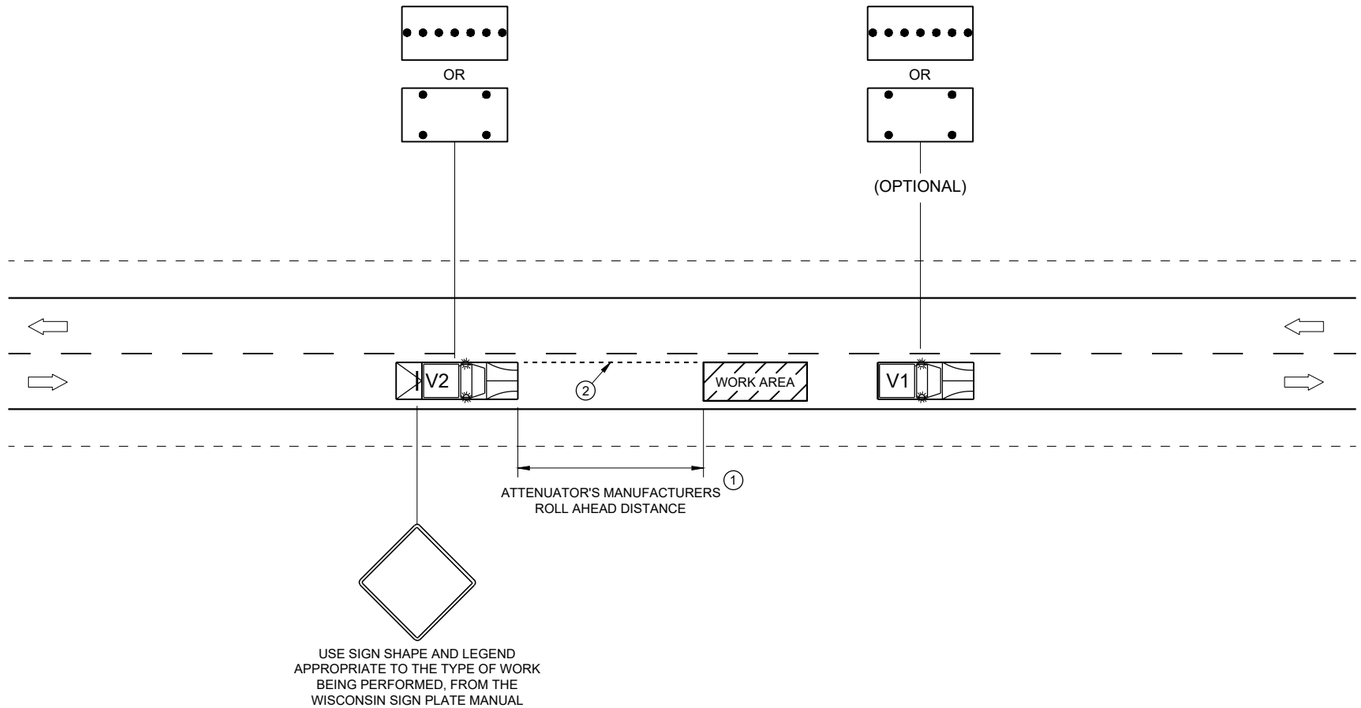
ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

(1) DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

(2) ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

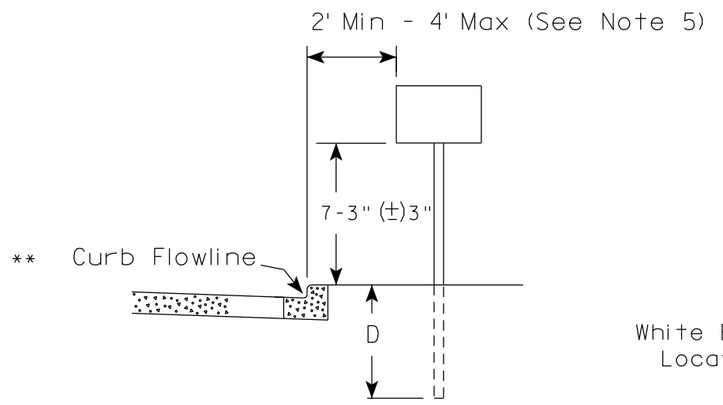
STATE OF WISCONSIN
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APPROVED
February 2021 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

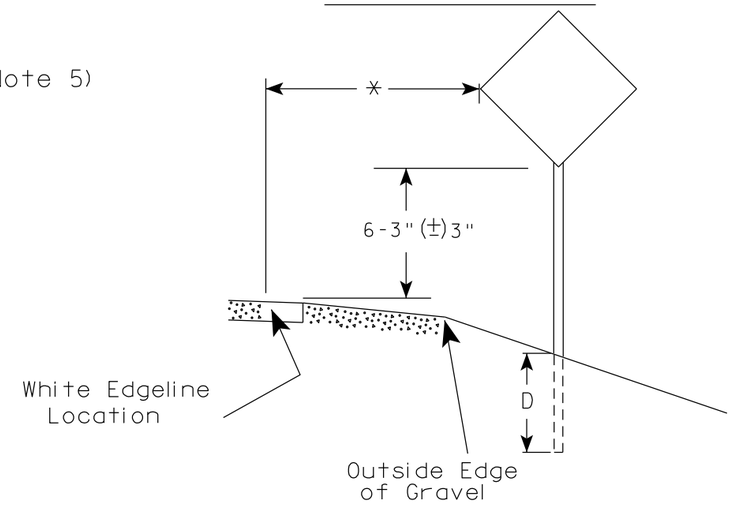
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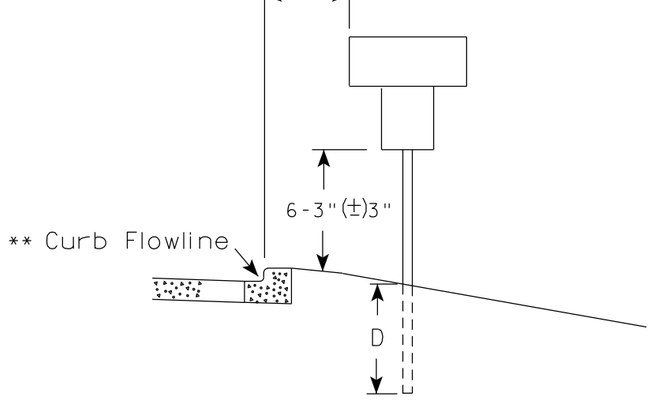
SDD 15D51 - 01

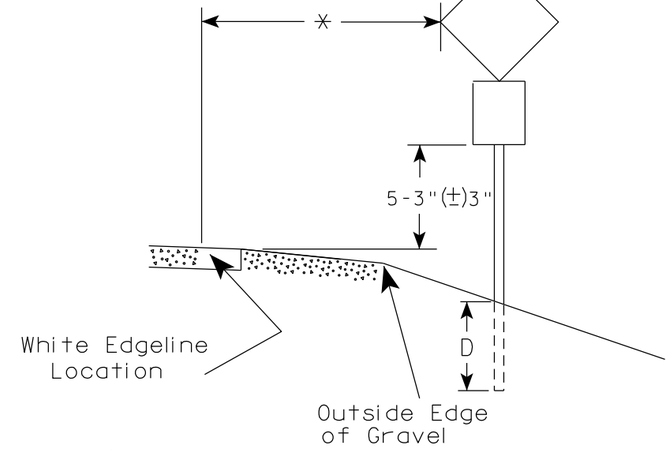
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 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".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

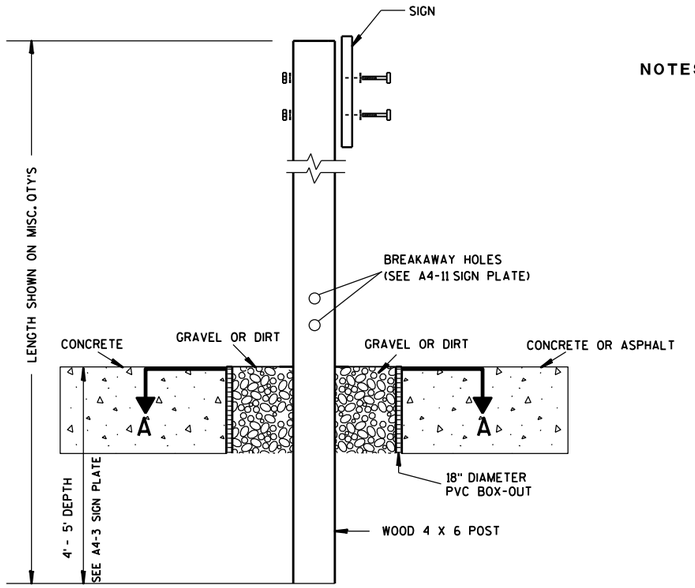
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

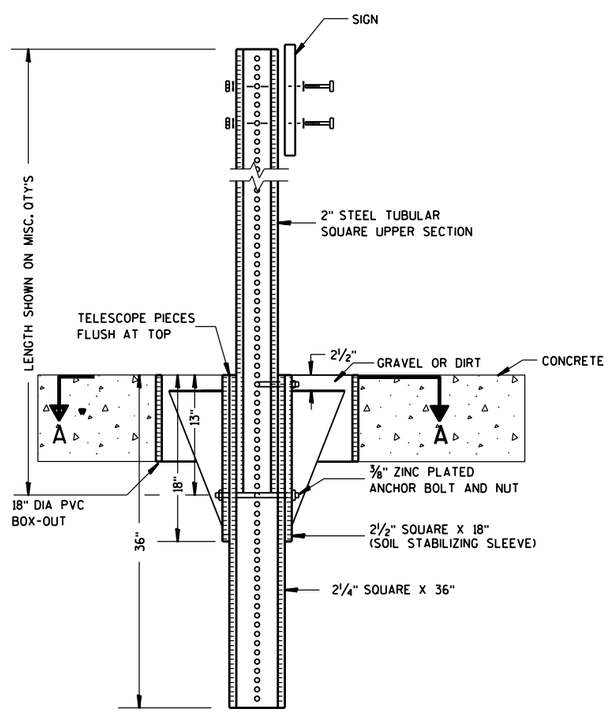
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 235	E



ELEVATION VIEW

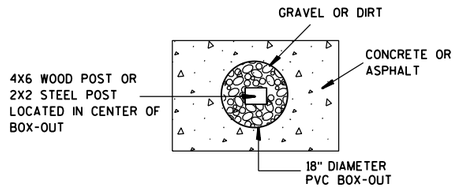
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

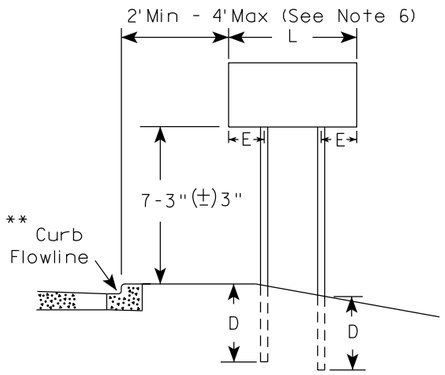
APPROVED Matthew R Rauch
for State Traffic Engineer

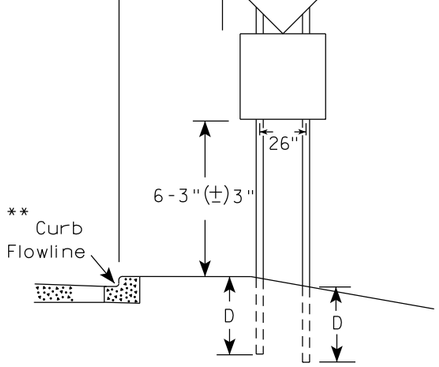
DATE 1/27/14 PLATE NO. A4-3B.1

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

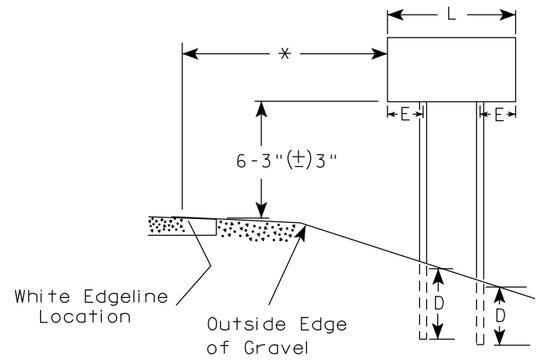
URBAN AREA

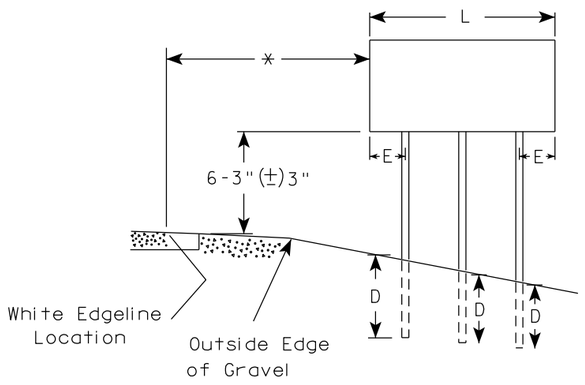


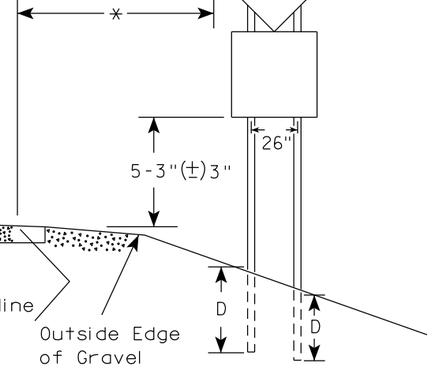


48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)







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" (±) 3" or 6'-3" (±) 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" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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'

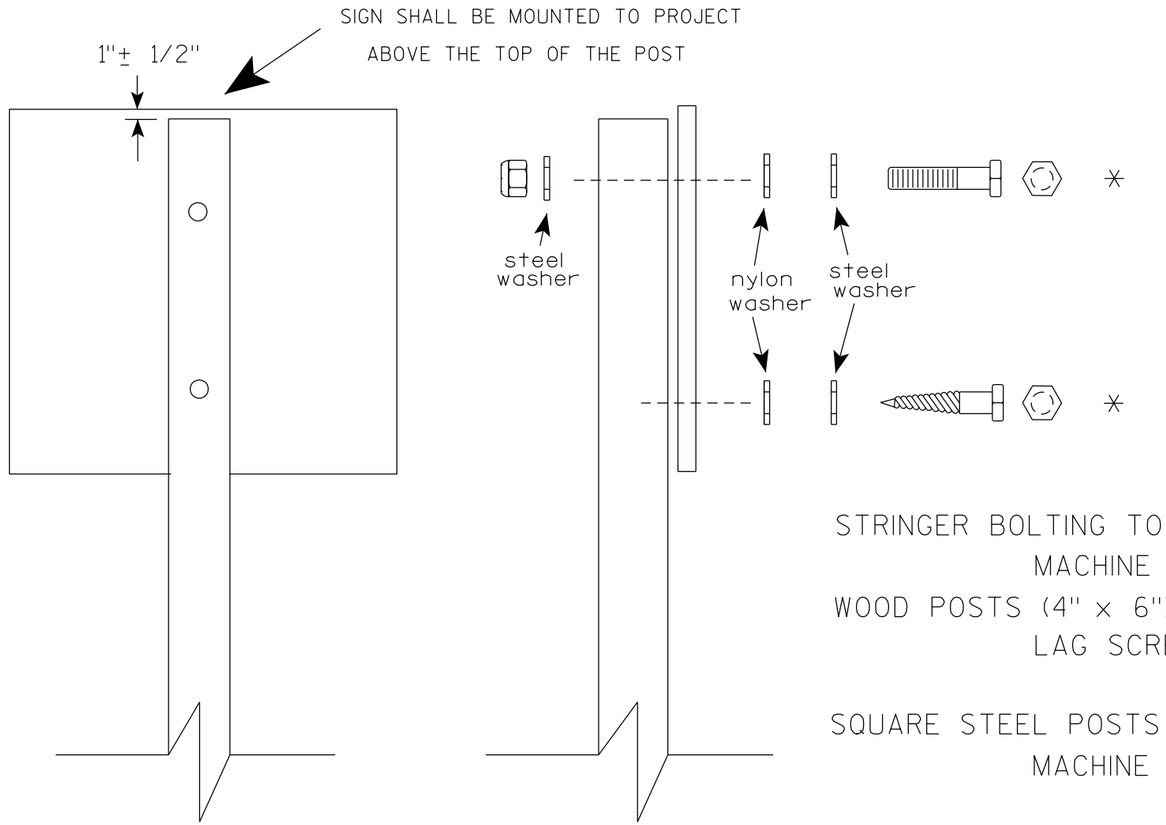
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 237	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

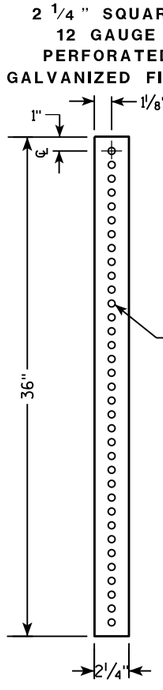
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

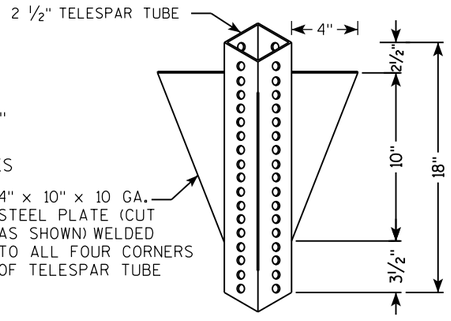
SHEET NO: 238 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

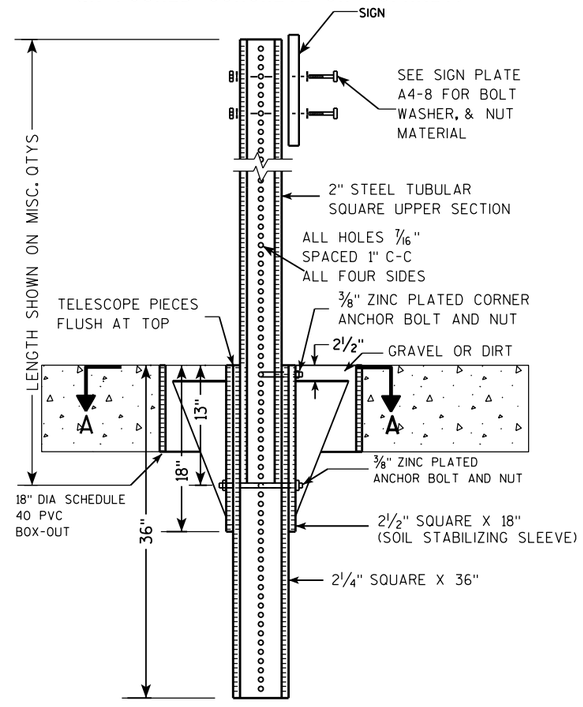
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



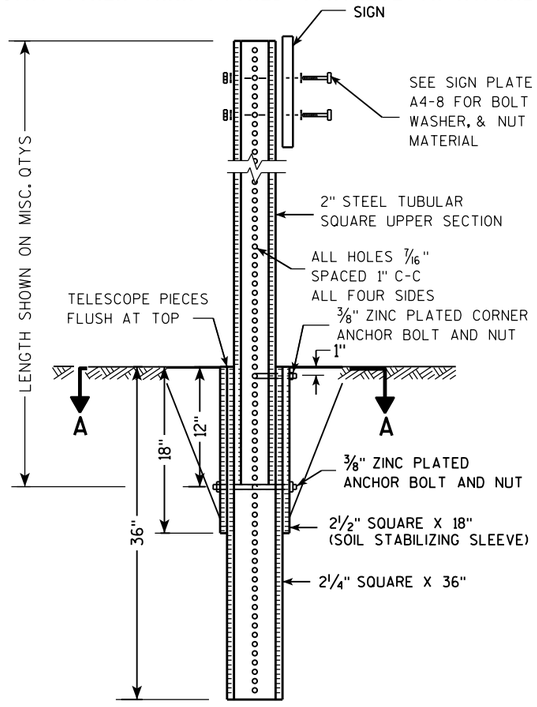
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

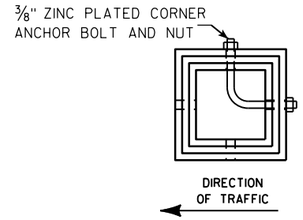


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

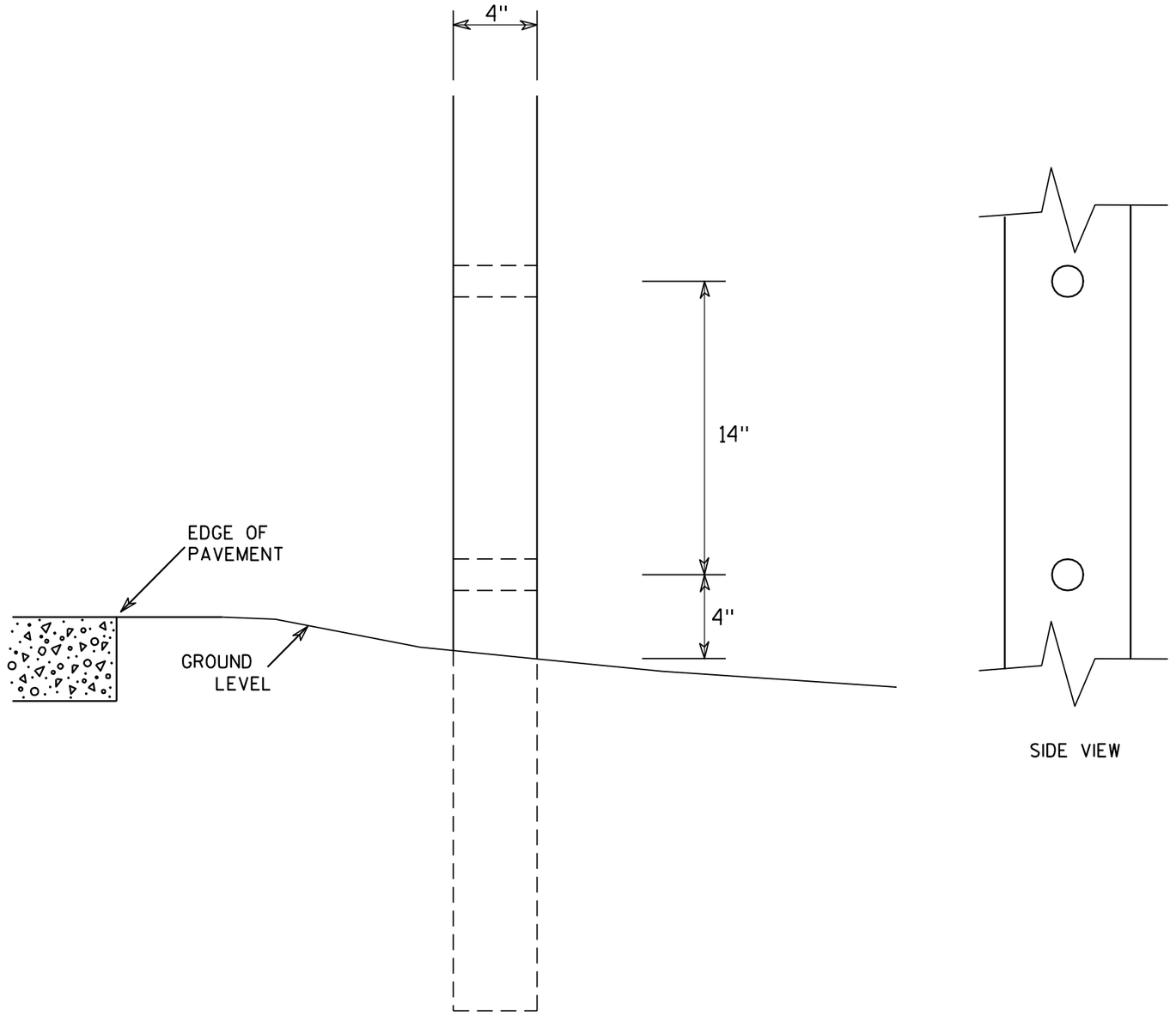
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

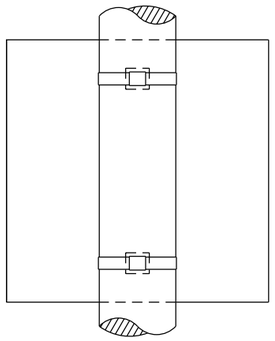
APPROVED Chester J Spang for State Traffic Engineer

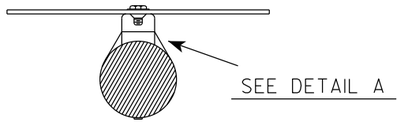
DATE 3/27/97 PLATE NO. A4-11.2

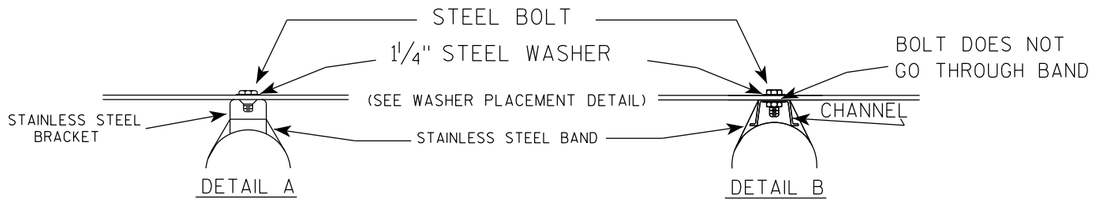
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 240	E

BANDING

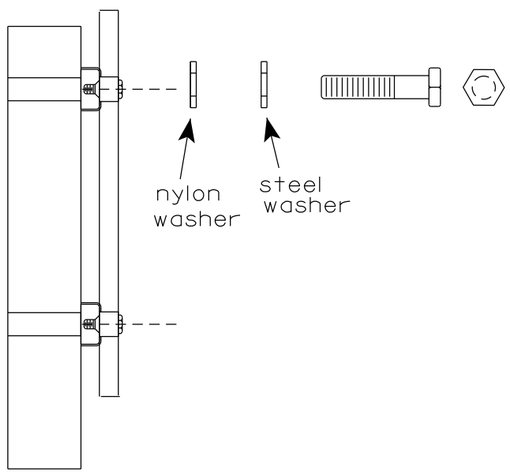
SINGLE SIGN







WASHER PLACEMENT

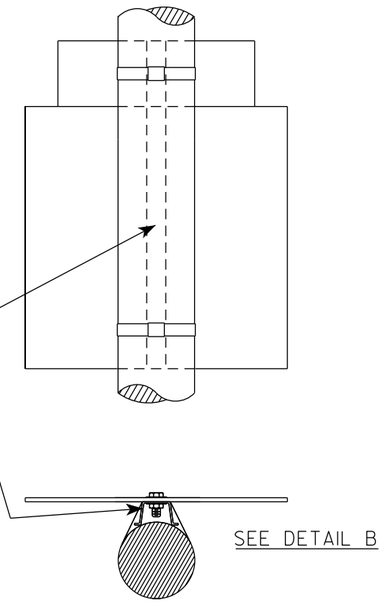


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

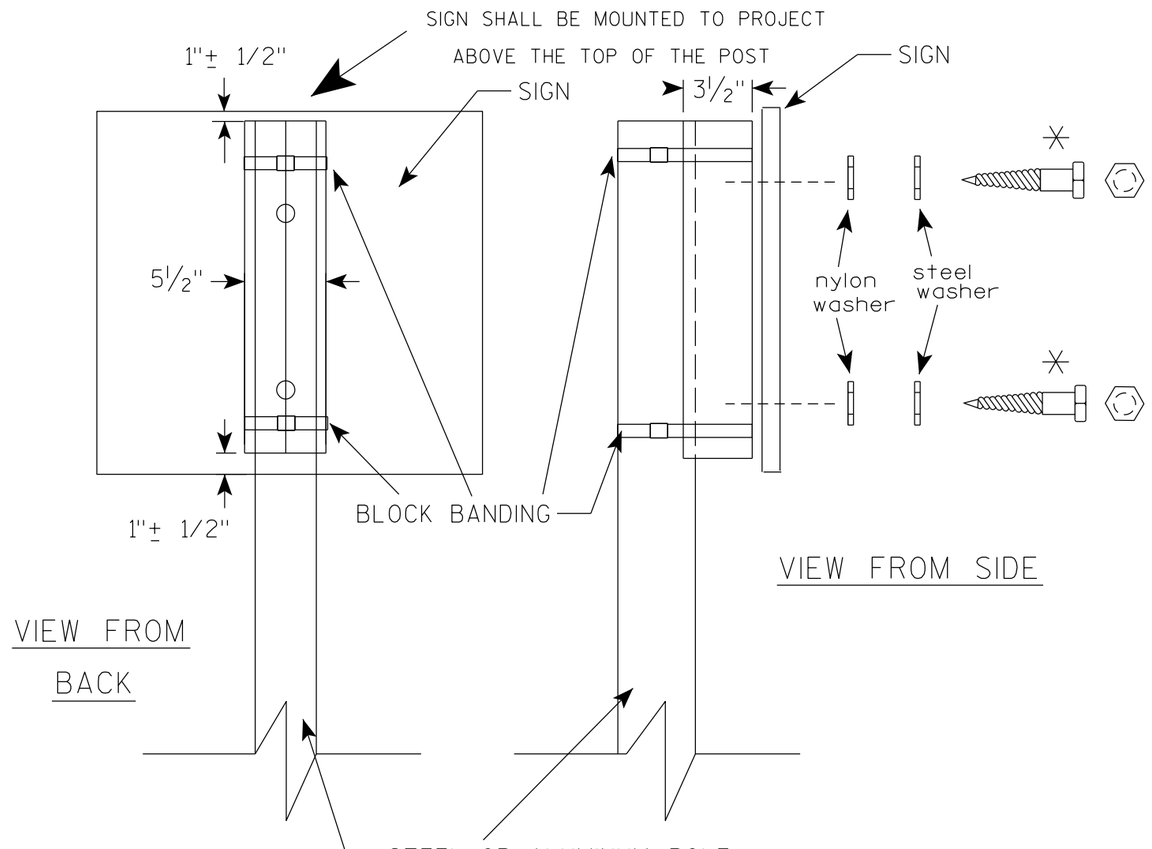
DATE 6/10/19 PLATE NO. A5-9.4

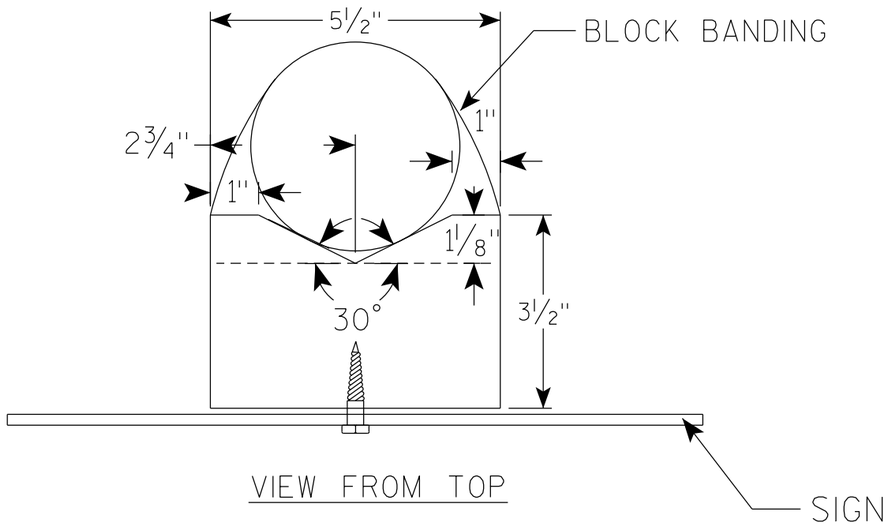
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 241	E

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

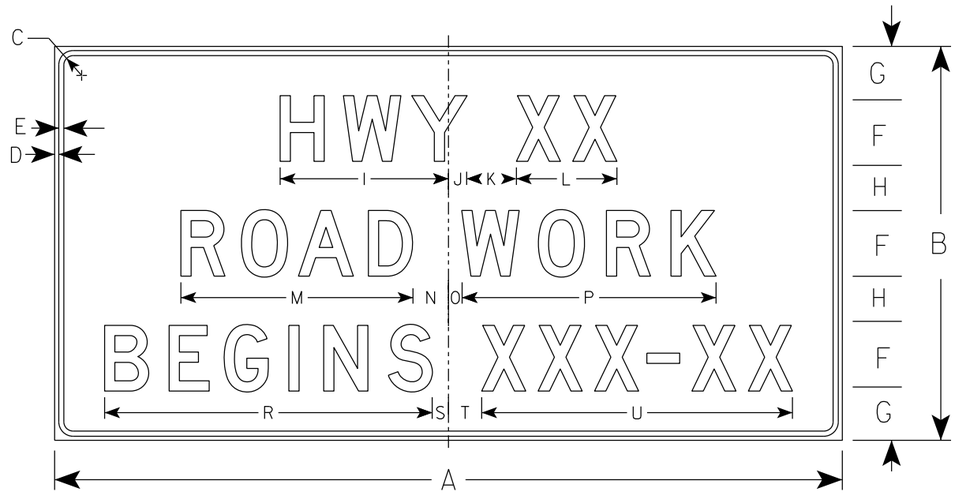
DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 242 E

NOTES

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



G20-57

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	21 1/4	3 1/2	1 1/2	23 1/4		29 7/8	1 3/4	3 1/4	28 1/2						18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	2 1/4	6	12 1/4	28 1/4	4 3/8	1 5/8	31		39 1/4	2	4	37 7/8						32.0
5																											

STANDARD SIGN
G20-57

WISCONSIN DEPT OF TRANSPORTATION

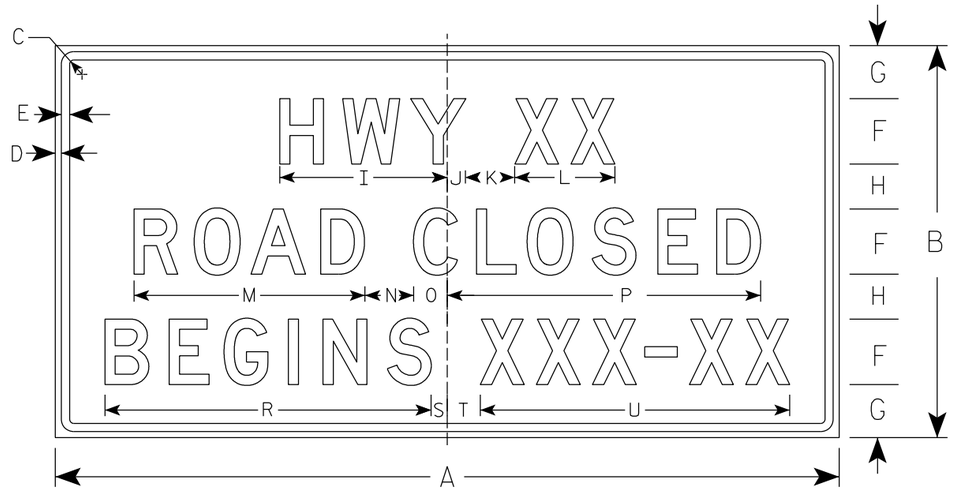
APPROVED Matthew R Rauch
For State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 243 | E

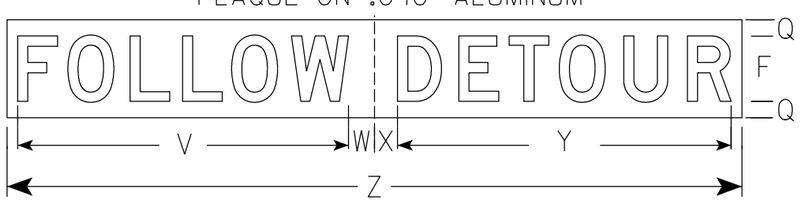
7

7



G20-57C

PLAQUE ON .040" ALUMINUM



USE ONLY ONCE WHEN ROAD IS CLOSED

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	21 1/8	5	2 7/8	29	2	30	1 3/4	3 1/4	28 3/8	40 1/2	2	2	29 3/4	66	18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	2 1/4	6	12 1/4	28 1/4	6	4 1/8	38 3/8	2	39 7/8	2	4	37 7/8	29 3/4	3 1/8	2 7/8	40 7/8	90	32.0
5																											

STANDARD SIGN

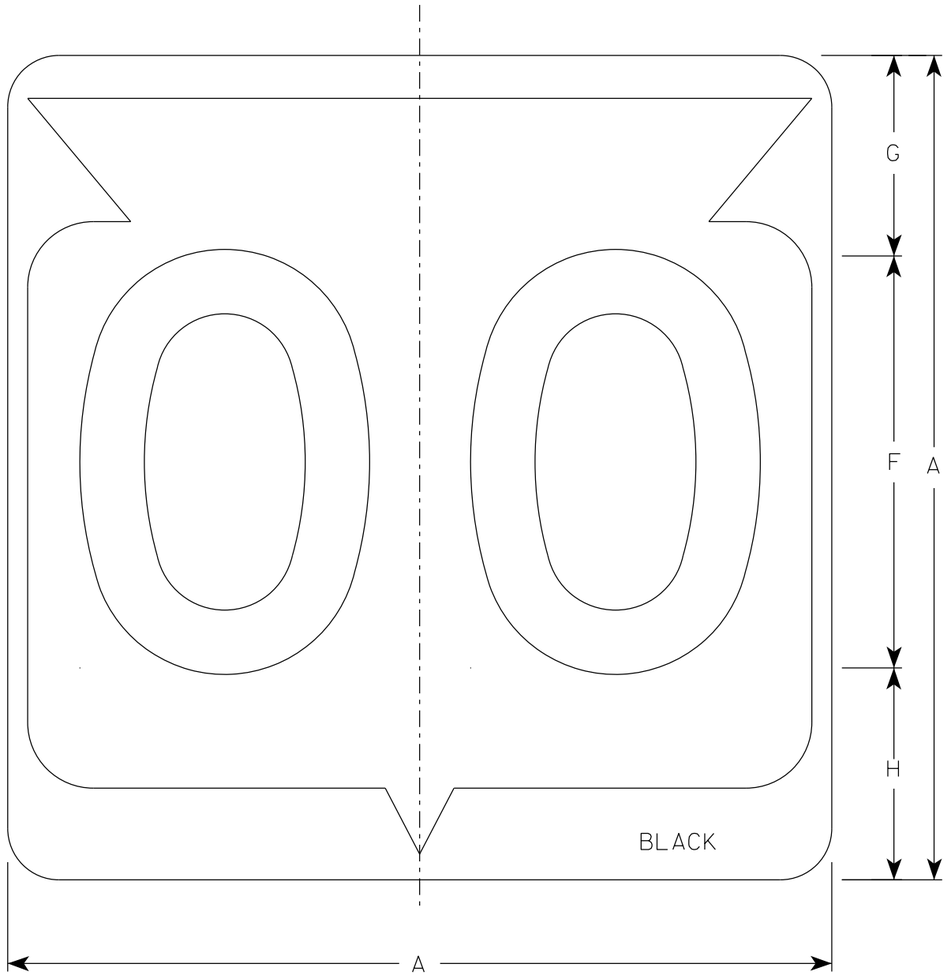
G20-57C

WISCONSIN DEPT OF TRANSPORTATION

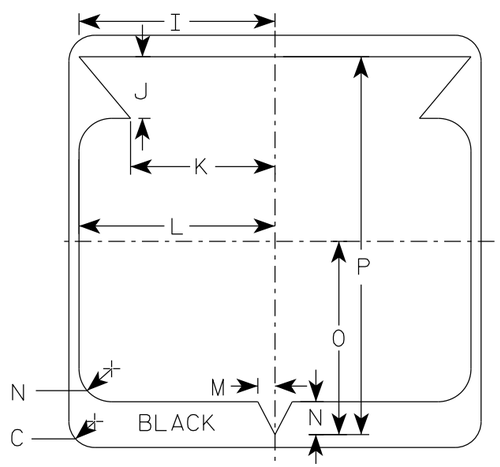
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/25/19 PLATE NO. G20-57C.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 244	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

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
2M	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

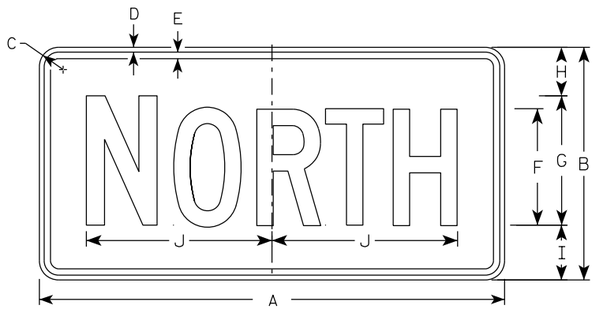
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

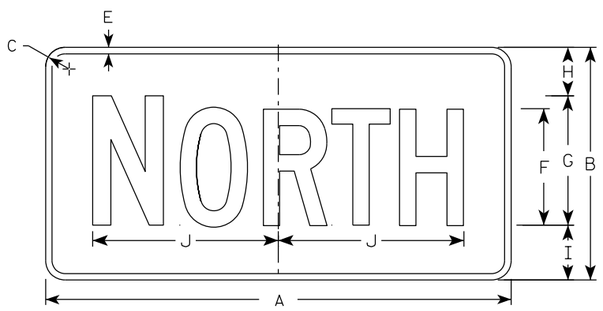
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

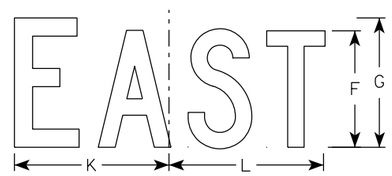
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 245	E



M3-1
MM3-1
MP3-1



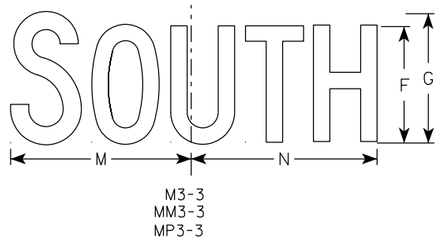
MB3-1
MK3-1
MN3-1



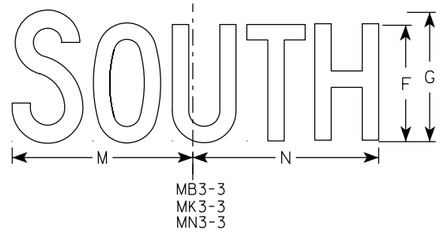
M3-2
MM3-2
MP3-2



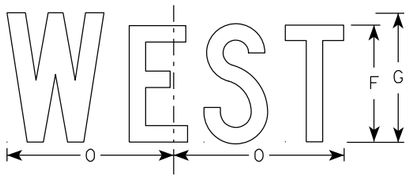
MB3-2
MK3-2
MN3-2



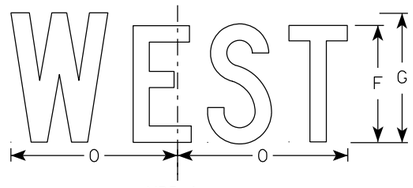
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H Reflective
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																											
2S	24	12	1 1/2	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												2.00
2M	24	12	1 1/2	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												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

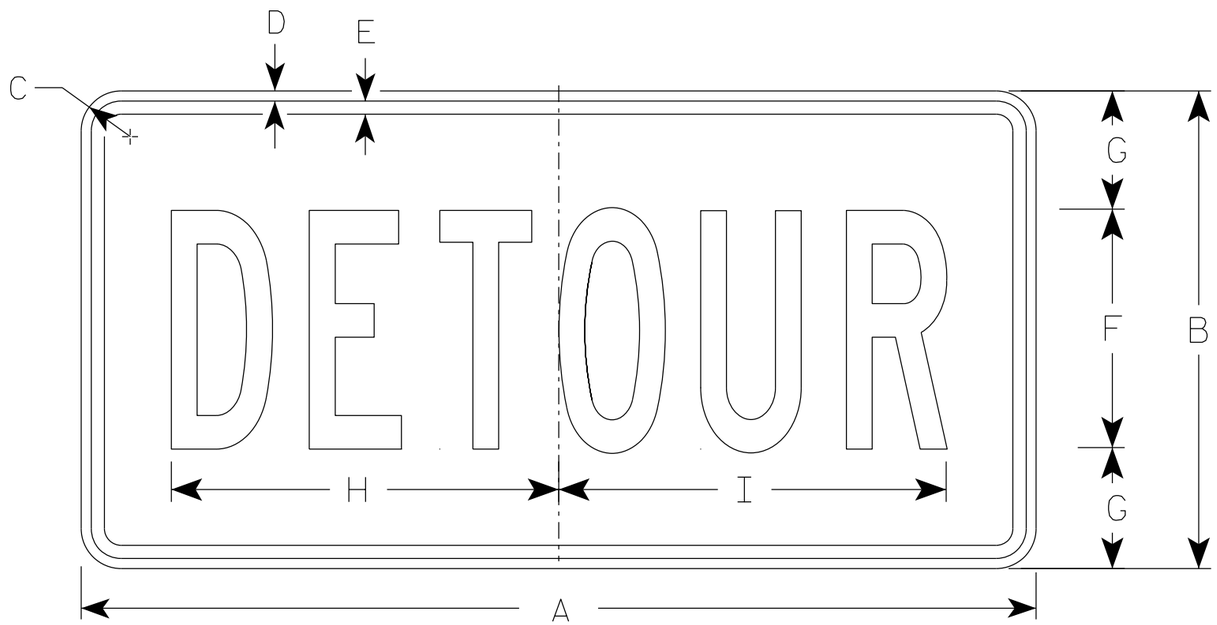
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 246 | E

NOTES

1. Sign is Type II - Type F Reflective
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.



M4-8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

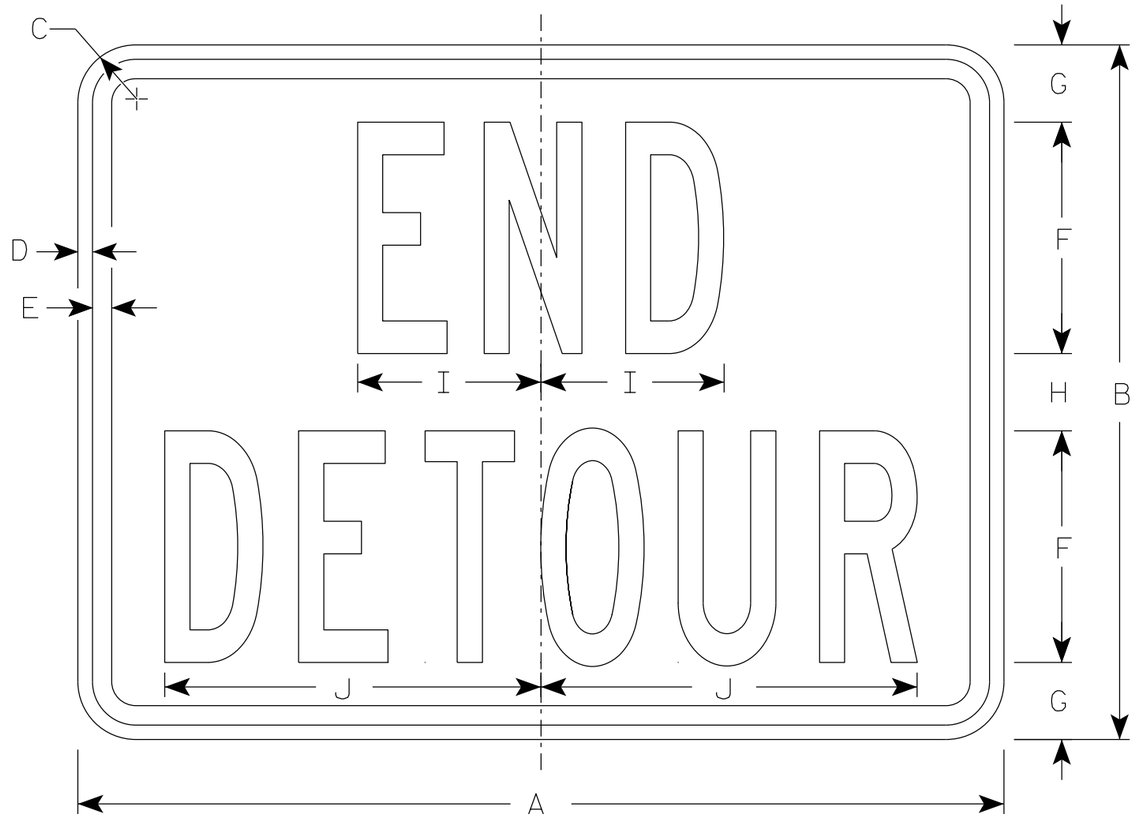
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 247	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective
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 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

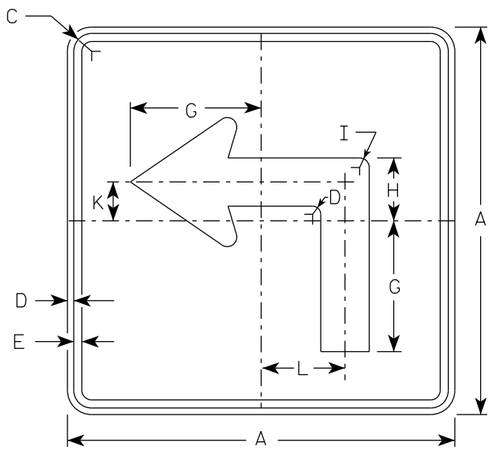
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

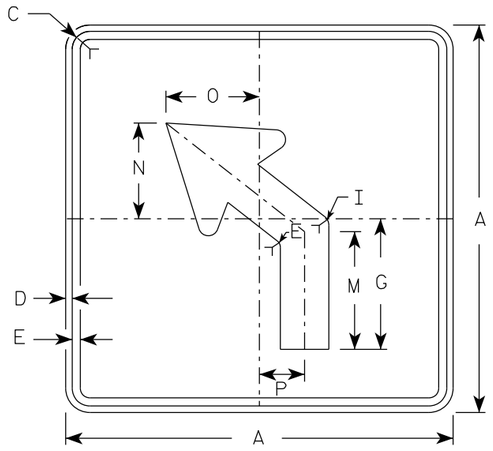
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

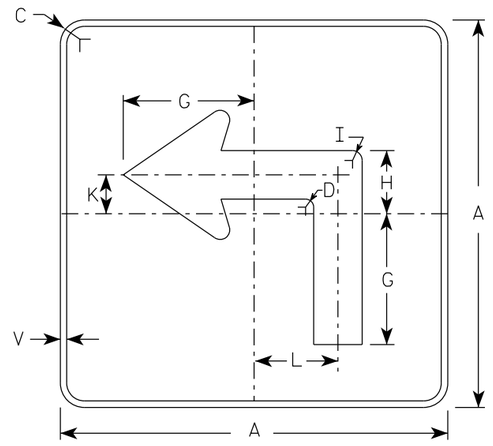
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 248 | E



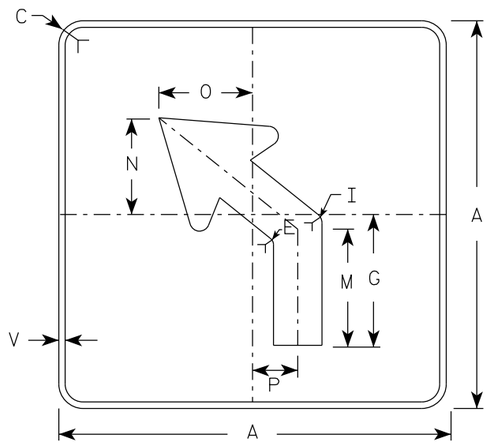
M5-1L
MM5-1L
MO5-1L
MP5-1L



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



MB5-1L
MK5-1L
MN5-1L
MR5-1L

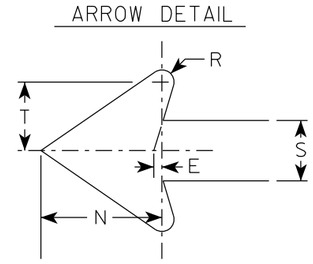


MB5-2L
MK5-2L
MN5-2L
MR5-2L

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
   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.

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	21		1 1/2	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		1/2					3.06
2M	21		1 1/2	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		1/2					3.06
3	30		1 7/8	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		1/2					6.25
4	30		1 7/8	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		1/2					6.25
5	30		1 7/8	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		1/2					6.25

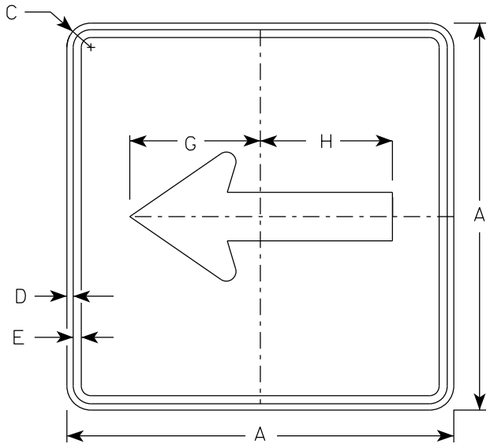
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

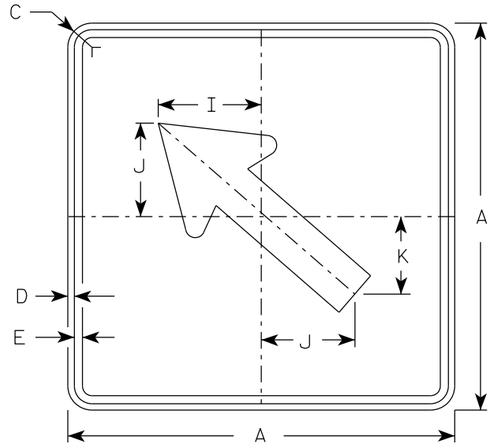
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

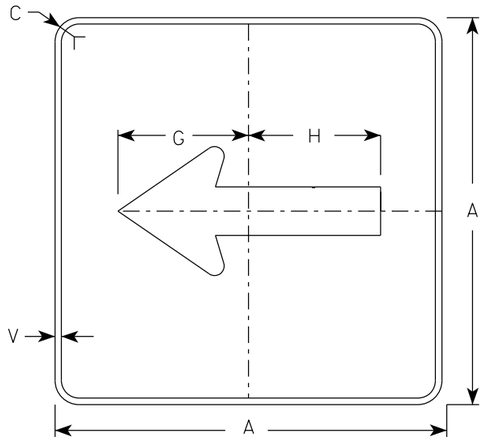
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 249 | E



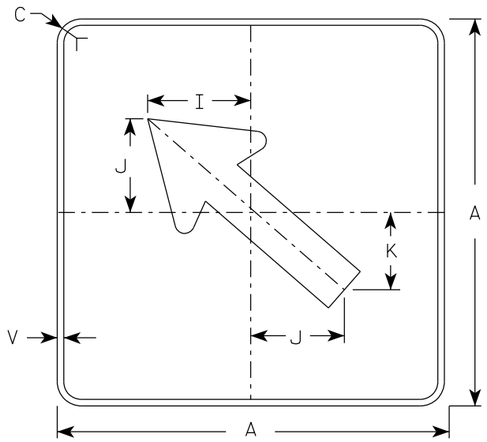
M6-1
MM6-1
MO6-1
MP6-1



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



MB6-1
MK6-1
MN6-1
MR6-1

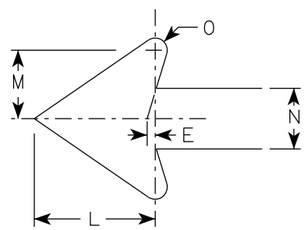


MB6-2
MK6-2
MN6-2
MR6-2

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. 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

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	21		1 1/2	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							1/2					3.06
2M	21		1 1/2	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							1/2					3.06
3	30		1 7/8	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							1/2					6.25
4	30		1 7/8	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							1/2					6.25
5	30		1 7/8	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							1/2					6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

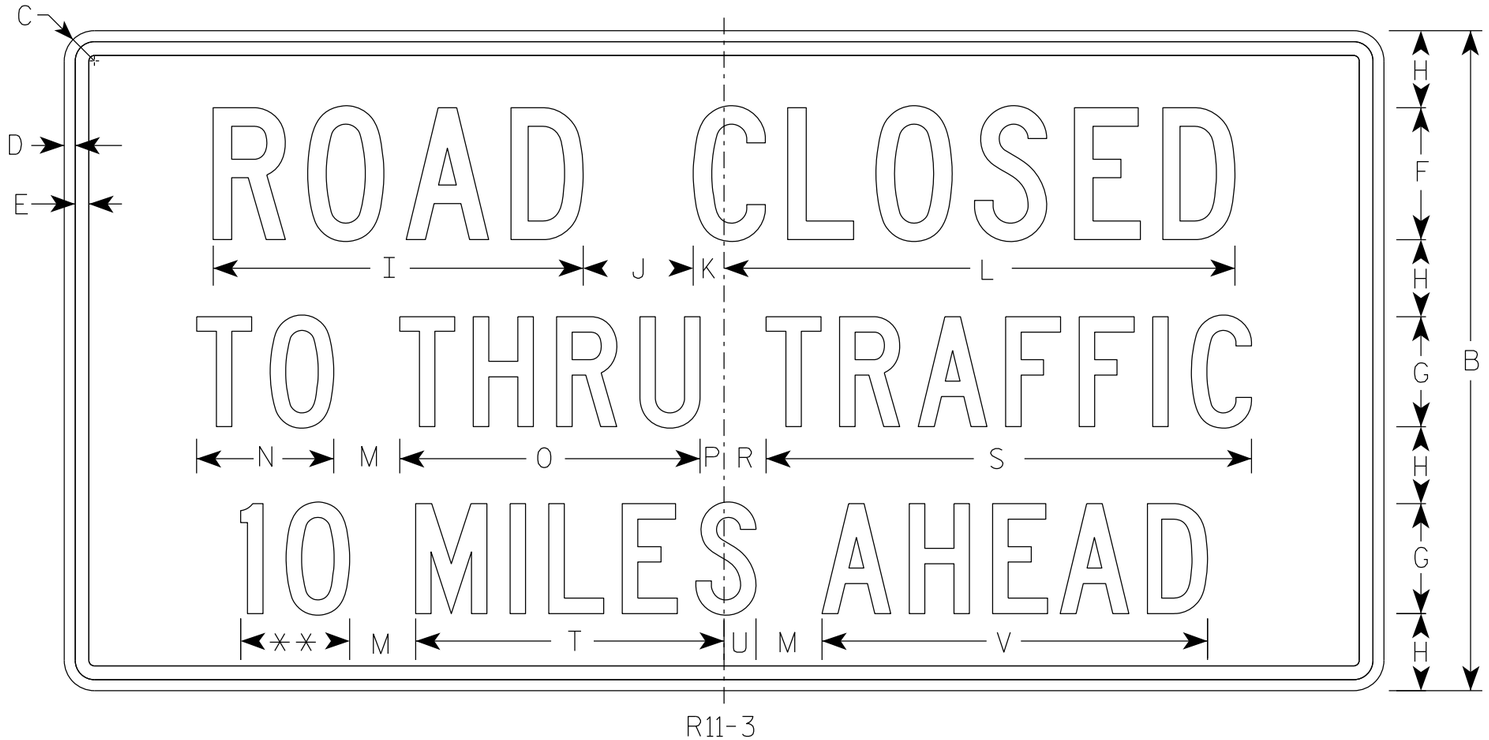
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 250 | E

7

7

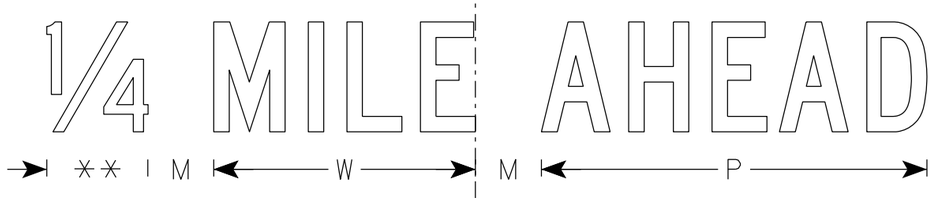
NOTES

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 1/2	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 7/8	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 7/8	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																											

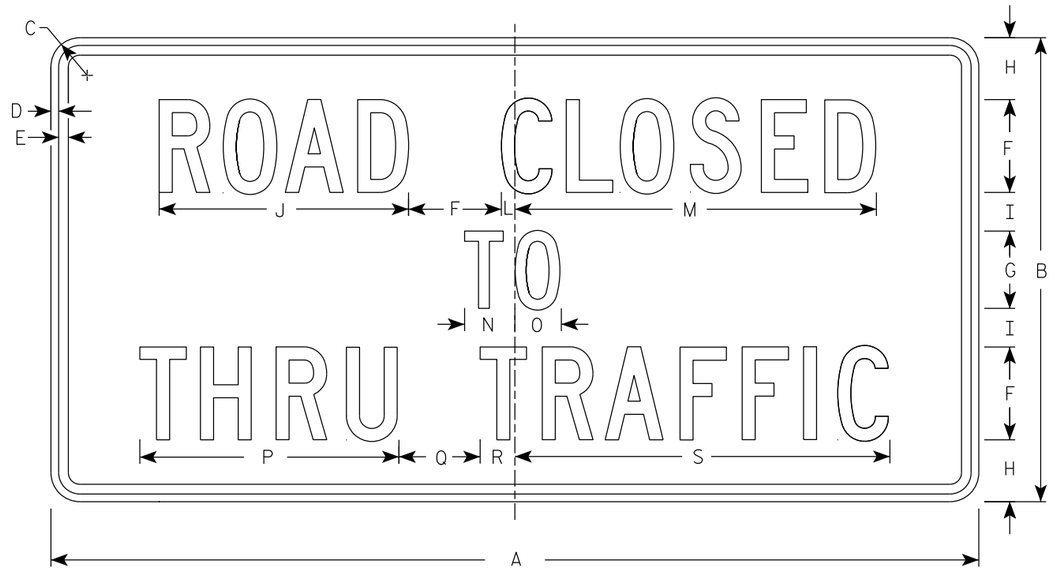
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 251 | E



R11-4

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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

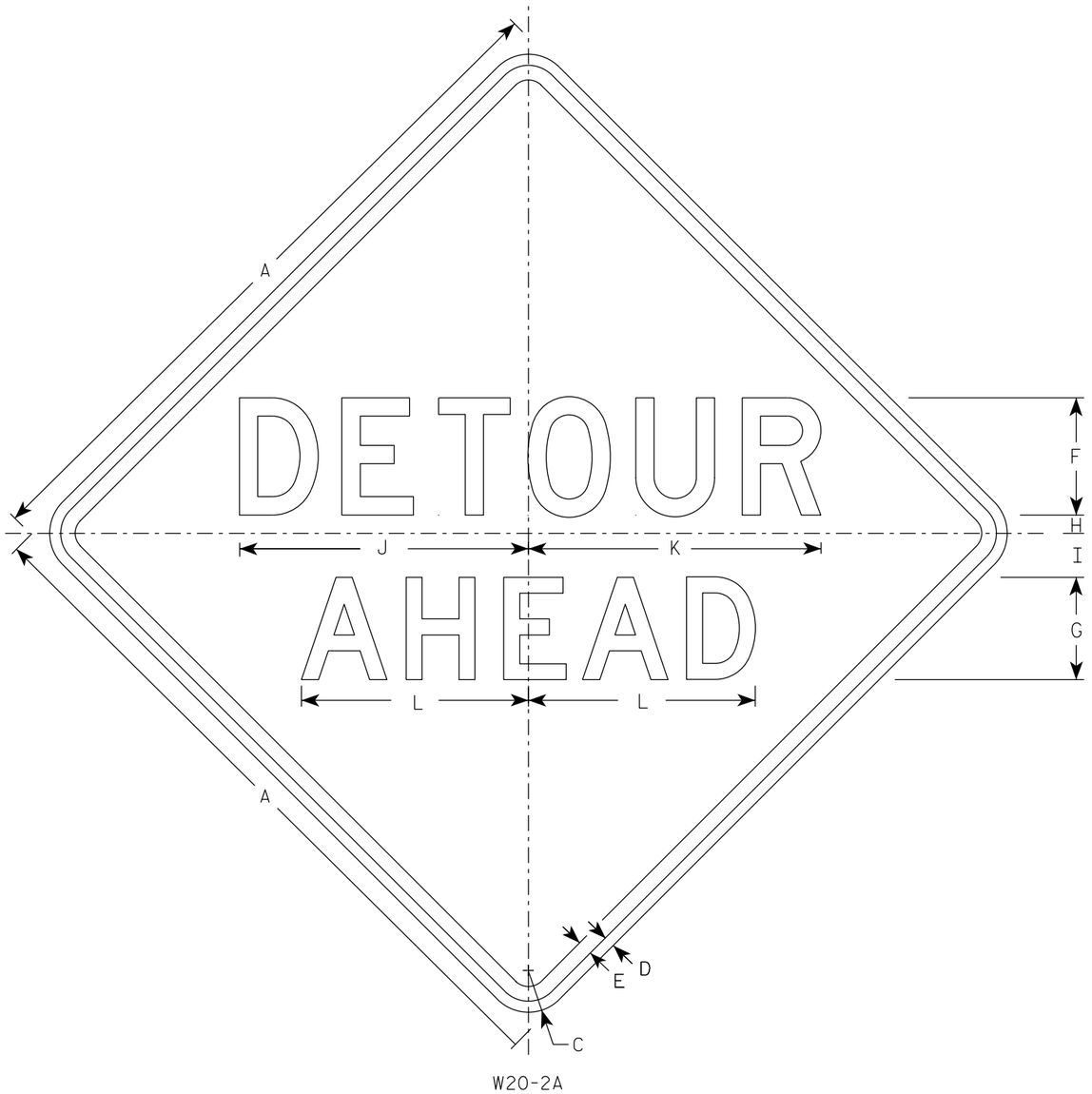
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

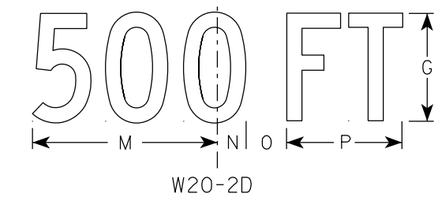
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

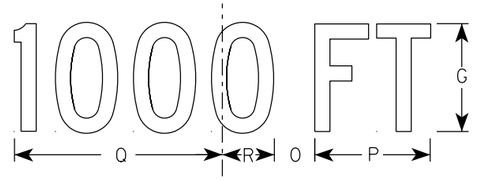
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 252 | E



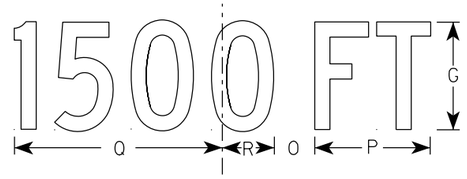
W20-2A



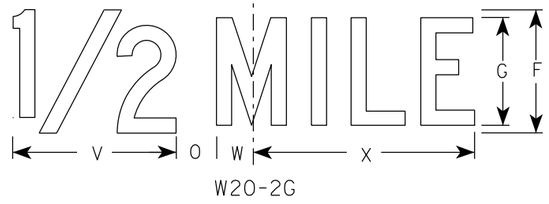
W20-2D



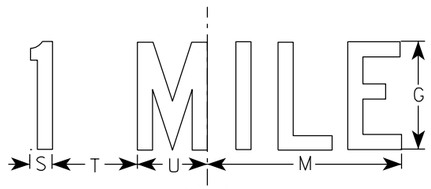
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	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		3	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		3	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		3	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		3	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		3	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

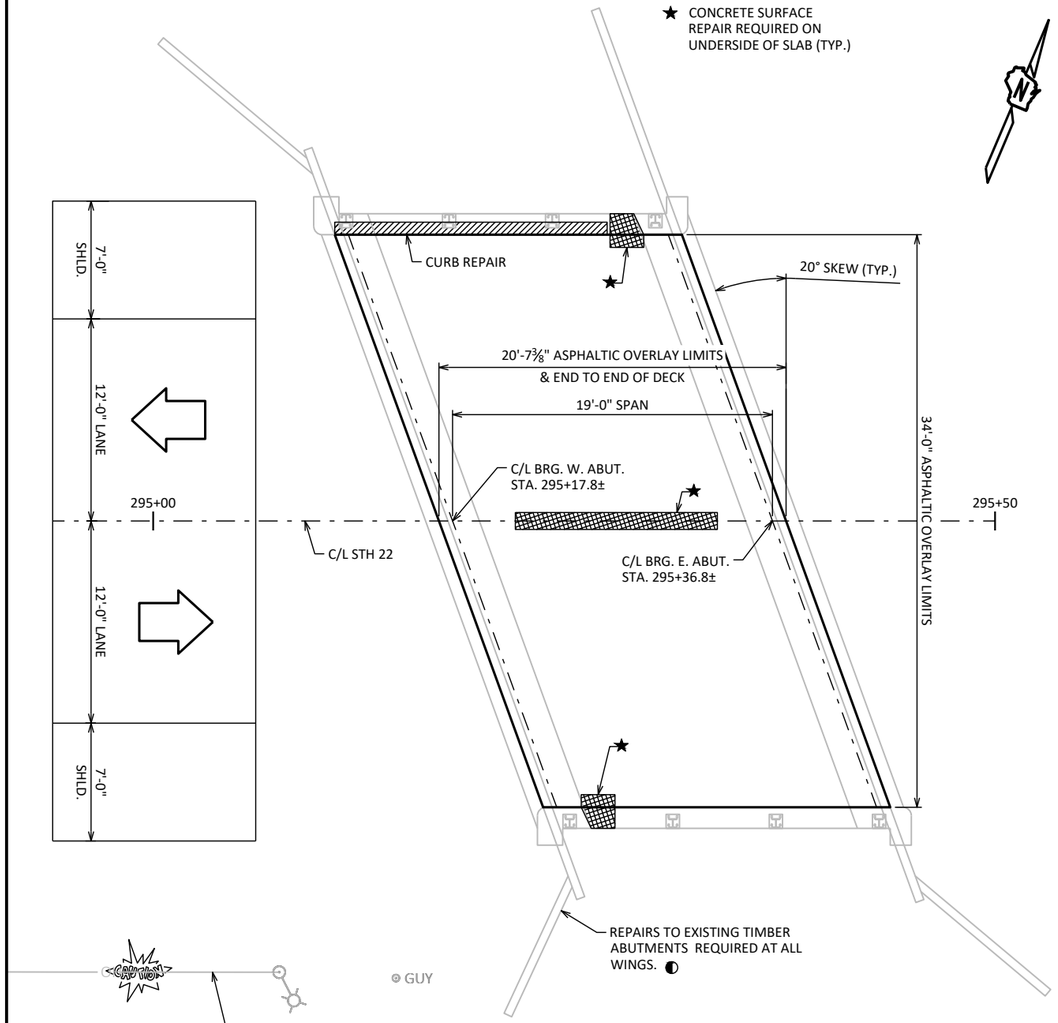
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



PLAN

ASPHALTIC OVERLAY - SINGLE SPAN FLAT CONCRETE SLAB

DESIGN DATA

LIVE LOAD:

INVENTORY RATING: HS-14
OPERATING RATING: HS-24
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 180 (KIPS)

MATERIAL PROPERTIES:

CONCRETE MASONRY:
DECK & CURB REPAIRS ——— f'_c = 4,000 PSI

TRAFFIC DATA

STH 22:
ADT = 8,070 (2045)
R.D.S. = 45 MPH

SCOPE OF WORK

REMOVE EXISTING ASPHALTIC OVERLAY AND EXISTING WATERPROOF MEMBRANE.

REMOVE EXISTING STEEL RAILING.

PLACE NEW ASPHALTIC OVERLAY WITH SPRAY APPLIED WATERPROOF MEMBRANE.

REPAIR DETERIORATED TIMBER ABUTMENTS AND PILES.

REPAIR DETERIORATED CURBS AND EDGES OF SLAB.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE HISTORIC INVENTORY CARD AND FIELD MEASUREMENTS.

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAW CUT.

PREPARATION DECKS TYPE 1 AND PREPARATION DECKS TYPE 2 AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION SHALL BE FILLED WITH "CONCRETE MASONRY DECK REPAIR".

AREAS OF CONCRETE SURFACE REPAIR SHOWN ARE APPROXIMATE. EXTENT AND LOCATION OF REPAIRS ARE TO BE DETERMINED BY THE ENGINEER.

◐ REPLACE BROKEN, MISSING, DECAYED, OR DISPLACED TIMBER BOARDS ON ABUTMENT WINGS. PRECISE LOCATIONS AND EXTENTS OF REPLACEMENT ARE TO BE DETERMINED BY THE ENGINEER AND ARE INCLUDED WITH BID ITEM "TREATED LUMBER AND TIMBER".

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY OR JOINT REPAIRS AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "ASPHALTIC SURFACE".

THE PLAN QUANTITY FOR THE BID ITEM "ASPHALTIC SURFACE" IS BASED ON THE AVERAGE OVERLAY THICKNESS.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 4" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 4½" (OR AS GIVEN ON PLANS). IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½" CONTACT THE STRUCTURES DESIGN SECTION.

◪ REMOVE ALL COMPONENTS OF RAILING DOWN TO SURFACE OF EXISTING CONCRETE CURB. BURN OFF ALL ANCHOR RODS FLUSH WITH CURB. COAT ANY EXPOSED TOPS OF BOLTS WITH EPOXY IN ACCORDANCE WITH SECTION 505.2.4.2 OF THE STANDARD SPECIFICATIONS. AFTER REMOVAL, THE RAILINGS AND COMPONENTS ARE TO BE SET ASIDE AND SHALL REMAIN THE PROPERTY OF THE STATE OF WISCONSIN. THE CONTRACTOR WILL COORDINATE WITH THE SHAWANO COUNTY HIGHWAY DEPARTMENT AS TO WHEN THE RAILINGS ARE READY TO BE RETRIEVED. COSTS OF THESE ACTIVITIES ARE INCLUDED WITH THE BID ITEM "REMOVING BRIDGE RAILING C-58-27".

◒ PROVIDE A POLYMER-MODIFIED TACK COAT. SEE "SPRAY APPLIED MEMBRANE WATERPROOFING FOR ASPHALT OVERLAYS" SPECIAL PROVISION FOR DETAILS.

ASBESTOS IS PRESENT IN THE GRAY TAR SEALANT ON THE WOOD ABUTMENTS AND WING WALLS. ANY DISTURBANCE TO THIS MATERIAL REQUIRES MITIGATION UNDER THE BID ITEM "ABATEMENT OF ASBESTOS CONTAINING MATERIAL C-58-27".

TOTAL ESTIMATED QUANTITIES

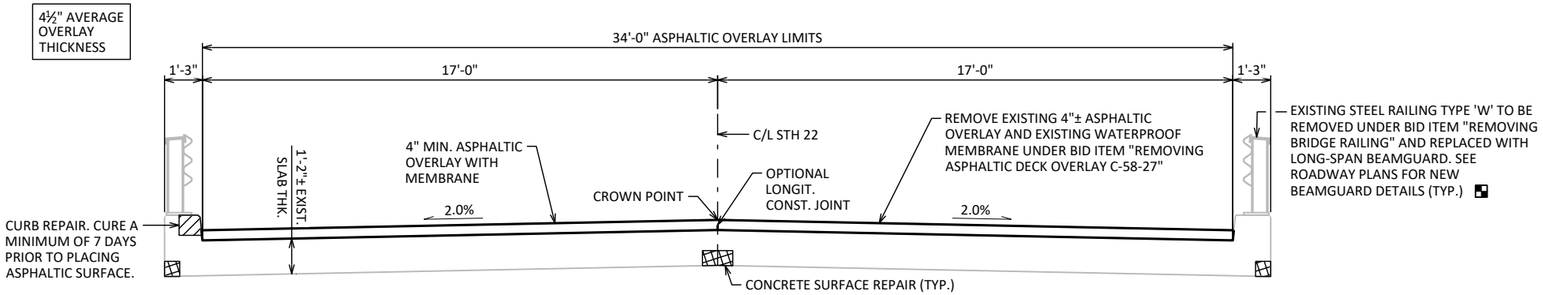
	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
	203.0211.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL C-58-27	EACH	1
◒	455.0605	TACK COAT	GAL	6
	465.0105	ASPHALTIC SURFACE	TON	20
◐	507.0200	TREATED LUMBER AND TIMBER	MBM	0.1
	509.0301	PREPARATION DECKS TYPE 1	SY	16
	509.0302	PREPARATION DECKS TYPE 2	SY	8
	509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	160
	509.1200	CURB REPAIR	LF	25
	509.1500	CONCRETE SURFACE REPAIR	SF	34
	509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	2
	509.9010.S	REMOVING ASPHALTIC CONCRETE DECK OVERLAY C-58-27	SY	78
◪	SPV.0090	REMOVING BRIDGE RAILING C-58-27	LF	44
	SPV.0180	SPRAY APPLIED MEMBRANE WATERPROOFING FOR ASPHALT OVERLAYS	SY	78

LIST OF DRAWINGS:

1. ASPHALTIC OVERLAY WITH MEMBRANE

STRUCTURE DESIGN CONTACTS:
MICAH BROOKS 608-266-5080
KYLE BUSCH 608-267-0465

4½" AVERAGE OVERLAY THICKNESS



CROSS SECTION THRU ROADWAY

LOOKING EAST

STATE PROJECT NUMBER

9180-17-71

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED KHB 7/28/25
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-58-27

STH 22 OVER PICKEREL CREEK

COUNTY: SHAWANO | TOWN: WASHINGTON

DESIGN SPEC.: REHABILITATION N/A

DESIGNED BY	DESIGN CK'D	DRAWN BY	PLANS CK'D
MWB	RRH	MWB	RRH

ASPHALTIC OVERLAY WITH MEMBRANE

SHEET 1 OF 1
254

I.D. 9180-17-01B DATE: APR. 2025

DIVISION - 1: RESORT RD

STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.33	
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
159+25.00	25	3	0	0	0	0	0	0	0
159+48.51	23	3	17	21	3	7	21	9	9
159+52.75	23	3	17	4	1	3	25	13	8
159+73.49	25	3	17	19	2	13	44	31	7
159+77.68	26	3	18	4	1	3	48	35	6
159+98.47	28	3	23	21	3	16	69	56	3
160+02.83	26	3	25	4	1	4	73	61	1
160+50.00	29	3	19	49	6	38	122	112	-7
161+00.00	27	3	13	52	6	29	174	150	1
161+50.00	24	3	21	47	6	31	221	192	0
162+00.00	9	3	28	31	6	45	252	251	-34
162+50.00	16	3	29	23	6	53	275	322	-88
163+00.00	14	3	30	27	6	54	302	394	-139
163+50.00	11	3	31	23	6	56	325	468	-196
164+00.00	10	3	33	19	6	59	344	547	-262
164+50.00	9	3	34	17	6	61	361	628	-332
165+00.00	7	3	34	15	6	62	376	710	-405
165+50.00	7	3	50	13	6	77	389	813	-501
166+15.00	37	3	28	53	8	94	442	938	-581
166+65.00	37	3	22	69	6	46	511	999	-579
167+00.00	15	3	43	34	4	42	545	1,055	-605
167+50.00	11	3	21	24	6	60	569	1,134	-666
168+00.00	12	3	19	22	6	37	591	1,184	-700
168+50.00	12	3	20	22	6	36	613	1,232	-732
169+00.00	16	3	14	25	6	31	638	1,273	-754
169+50.00	18	3	8	31	6	21	669	1,301	-757
170+00.00	16	3	5	32	6	12	701	1,317	-747
170+50.00	25	3	1	38	6	5	739	1,323	-721
				739	137	995			

DIVISION - LCL-RESORTRD

STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.33	
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
8+21.28	29	0	0	0	0	0	0	0	0
8+25.00	28	0	0	4	0	0	4	0	4
8+50.00	30	0	0	27	0	0	31	0	31
8+75.00	28	0	0	27	0	0	58	0	58
9+00.00	23	0	2	24	0	1	82	1	81
9+25.00	31	0	16	25	0	8	107	12	95
9+51.10	50	0	24	39	0	20	146	39	107
10+51.00	36	0	16	40	0	19	186	64	122
				146	0	29			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

DIVISION - 2: C-58-22

STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
				NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
197+50.00	3	3	2	0	0	0	0	0	0
197+75.00	16	3	8	9	3	5	9	7	-1
198+00.00	17	3	16	15	3	11	24	21	-3
198+25.00	15	3	28	14	3	20	38	48	-19
198+50.00	13	3	41	13	3	32	51	90	-51
198+68.01	15	3	43	9	2	28	60	128	-82
198+75.00	15	3	41	4	1	11	64	142	-93
198+93.00	17	3	32	11	2	25	75	176	-118
199+00.00	19	3	29	5	1	8	80	186	-124
199+12.62	21	3	27	9	2	13	89	203	-134
199+18.00	21	3	26	4	1	5	93	210	-138
199+25.00	18	3	29	5	1	7	98	219	-143
199+37.60	14	3	35	7	2	15	105	239	-158
199+50.00	10	3	43	6	1	18	111	263	-177
199+62.00	9	3	47	4	1	20	115	290	-201
199+75.00	5	3	68	3	2	28	118	327	-237
199+99.20	6	3	54	5	3	55	123	400	-308
200+24.20	11	3	29	8	3	38	131	451	-354
200+49.18	52	3	7	29	3	16	160	472	-349
200+75.00	7	3	10	28	3	8	188	483	-335
201+00.00	13	3	12	9	3	10	197	496	-342
201+25.00	16	3	8	14	3	10	211	509	-344
201+50.00	16	3	7	15	3	7	226	519	-342
201+75.00	15	3	6	14	3	6	240	527	-339
				240	52	396			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

DIVISION - 3: C-58-27

STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
293+25.00	11	3	4	0	0	0	0	0	0
293+50.00	12	3	10	11	3	7	11	9	-1
293+75.00	14	3	15	12	3	12	23	25	-8
294+00.00	37	3	17	23	3	15	46	45	-8
294+15.74	21	3	19	17	2	10	63	59	-7
294+21.39	14	3	18	4	1	4	67	64	-9
294+25.00	13	3	18	2	0	2	69	67	-10
294+40.74	11	3	13	7	2	9	76	78	-16
294+46.39	23	3	12	4	1	3	80	82	-17
294+50.00	39	3	11	4	0	2	84	85	-16
294+65.74	43	3	9	24	2	6	108	93	-2
294+71.39	11	3	4	6	1	1	114	94	2
294+75.00	10	3	2	1	0	0	115	94	3
295+00.00	8	3	3	8	3	2	123	97	5
295+25.00	5	3	0	6	3	1	129	98	7
295+50.00	7	3	7	6	3	3	135	102	6
295+75.00	11	3	3	8	3	5	143	109	4
295+84.49	11	3	6	4	1	2	147	112	4
295+90.14	12	3	12	2	1	2	149	114	3
296+00.00	11	3	13	4	1	5	153	121	-1
296+09.49	10	3	12	4	1	4	157	126	-3
296+15.14	10	3	12	2	1	2	159	129	-5
296+25.00	10	3	13	4	1	5	163	136	-9
296+34.49	11	3	15	4	1	5	167	142	-12
296+40.14	18	3	13	3	1	3	170	146	-14
296+50.00	25	3	12	8	1	4	178	152	-13
296+75.00	10	3	8	16	3	9	194	164	-12
297+00.00	6	3	7	7	3	7	201	173	-17
297+11.25	5	3	9	2	1	3	203	177	-20
297+25.00	6	3	3	3	2	3	206	181	-23
				206	48	136			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

DIVISION - 4: CTH R

STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
312+50.00	10	6	7	0	0	0	0	0	0
313+00.00	5	6	24	13	10	28	13	37	-34
313+50.00	9	6	27	13	10	47	26	100	-94
314+00.00	4	6	28	13	10	51	39	168	-159
314+50.00	16	6	11	18	10	36	57	215	-198
315+00.00	22	28	0	35	31	10	92	229	-208
315+50.00	10	35	0	30	58	0	122	229	-236
316+00.00	14	18	0	22	49	0	144	229	-263
316+50.00	16	18	0	28	33	0	172	229	-268
317+00.00	24	18	0	37	33	0	209	229	-264
317+50.00	27	18	0	47	33	0	256	229	-250
318+00.00	25	18	0	49	33	0	305	229	-234
318+50.00	17	18	0	39	33	0	344	229	-228
319+00.00	12	18	0	27	33	0	371	229	-234
319+50.00	12	18	0	22	33	0	393	229	-245
320+00.00	17	18	0	26	33	0	419	229	-252
320+50.00	20	18	0	34	33	0	453	229	-251
321+00.00	22	18	0	39	33	0	492	229	-245
321+50.00	19	18	0	38	33	0	530	229	-240
322+00.00	15	18	0	32	33	0	562	229	-241
322+50.00	11	18	0	24	33	0	586	229	-250
323+00.00	6	16	0	15	31	0	601	229	-266
323+50.00	11	40	0	16	51	0	617	229	-301
324+00.00	9	17	0	18	52	0	635	229	-335
324+50.00	20	13	14	26	28	13	661	246	-354
331+00.00	15	8	24	50	31	56	711	321	-410
331+50.00	15	6	23	27	13	43	738	378	-453
332+00.00	9	5	20	22	9	39	760	430	-492
332+50.00	7	5	20	15	8	37	775	479	-534
333+00.00	5	3	25	11	7	41	786	533	-584
				786	837	401			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

DIVISION - 1: C-5783

STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
377+25.00	10	2	0	0	0	0	0	0	0
377+50.00	9	2	3	9	1	1	9	1	7
377+75.00	9	2	6	9	1	4	18	7	9
378+00.00	7	2	15	7	1	10	25	20	2
378+25.00	5	2	27	6	1	20	31	47	-20
378+33.43	6	2	31	2	0	9	33	59	-30
378+50.00	6	2	33	3	1	20	36	85	-54
378+58.40	5	2	37	2	0	11	38	100	-67
378+75.00	5	2	47	3	1	26	41	134	-99
378+83.40	5	2	53	1	0	15	42	154	-118
379+00.00	5	2	65	3	1	36	45	202	-164
379+25.00	5	2	64	4	1	59	49	281	-240
379+50.00	45	3	74	23	2	64	72	366	-304
379+75.00	30	3	74	34	3	68	106	456	-363
379+83.00	30	3	98	9	1	25	115	489	-388
380+00.00	30	3	74	19	2	54	134	561	-443
380+25.00	32	3	57	28	3	60	162	641	-498
380+50.00	5	2	54	17	2	51	179	709	-551
380+75.00	5	2	49	4	1	48	183	773	-612
381+00.00	5	2	50	5	1	46	188	834	-669
381+25.00	5	2	48	5	1	46	193	895	-726
381+50.00	5	2	25	5	1	34	198	940	-767
381+75.00	5	2	9	5	1	16	203	962	-785
382+00.00	5	2	9	5	1	9	208	974	-793
382+25.00	5	2	19	5	1	13	213	991	-806
382+50.00	5	2	25	5	1	20	218	1,017	-828
382+75.00	6	2	15	5	1	18	223	1,041	-848
382+83.40	6	2	17	2	0	5	225	1,048	-853
383+00.00	6	2	16	4	1	10	229	1,061	-863
383+08.40	5	2	14	2	0	5	231	1,068	-868
383+25.00	4	2	13	3	1	8	234	1,079	-877
383+33.35	6	2	11	2	0	4	236	1,084	-880
383+50.00	10	2	6	5	1	5	241	1,091	-883
383+75.00	30	2	0	18	1	3	259	1,095	-870
384+00.00	13	2	0	20	1	0	279	1,095	-851
384+25.00	12	2	0	11	1	0	290	1,095	-841
384+50.00	12	2	0	11	1	0	301	1,095	-831
				301	37	823			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

DIVISION - 3: PENSAUKEE GRADING

STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
				NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
460+00.00	3	0	1	0	0	0	0	0	0
460+25.00	3	0	2	2	0	1	2	1	1
460+50.00	3	0	2	2	0	2	4	4	0
460+75.00	2	0	4	2	0	3	6	8	-2
461+00.00	3	0	6	2	0	5	8	15	-7
461+25.00	3	0	7	3	0	6	11	23	-12
461+50.00	4	0	8	3	0	7	14	32	-18
461+75.00	2	0	12	3	0	9	17	44	-27
462+00.00	2	0	15	2	0	13	19	61	-42
462+25.00	2	0	14	2	0	13	21	78	-57
462+50.00	2	0	16	2	0	13	23	96	-73
462+75.00	2	0	12	2	0	13	25	113	-88
463+00.00	2	0	13	2	0	12	27	129	-102
463+25.00	2	0	12	2	0	12	29	145	-116
463+50.00	3	0	11	2	0	10	31	158	-127
463+75.00	3	0	8	3	0	9	34	170	-136
464+00.00	3	0	9	3	0	8	37	181	-144
464+25.00	3	0	9	3	0	8	40	192	-152
464+50.00	3	0	11	2	0	9	42	203	-161
464+75.00	3	0	9	3	0	9	45	215	-170
465+00.00	3	0	0	3	0	4	48	221	-173
				48	0	166			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

DIVISION - 3: B-58-116

STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.33	MASS ORDINATE
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
539+50.00	5	2	2	0	0	0	0	0	0
539+75.00	4	2	2	4	1	2	4	3	0
540+00.00	3	2	3	3	1	2	7	5	0
540+25.00	3	2	5	3	1	4	10	11	-4
540+50.00	2	2	6	2	1	5	12	17	-9
540+75.00	2	2	5	2	1	5	14	24	-15
540+89.31	5	2	7	2	1	3	16	28	-18
541+00.00	3	2	5	2	1	2	18	31	-20
541+14.30	3	2	3	2	1	2	20	33	-21
541+25.00	3	2	2	1	1	1	21	35	-23
541+39.30	2	2	1	1	1	1	22	36	-24
541+50.00	3	2	0	1	1	0	23	36	-24
541+75.00	7	3	0	4	2	0	27	36	-22
542+00.00	9	3	0	7	3	0	34	36	-18
542+25.00	9	3	0	8	3	0	42	36	-13
542+50.00	9	3	1	9	3	0	51	36	-7
542+75.00	13	3	0	10	3	0	61	36	0
543+00.00	17	3	0	14	3	0	75	36	11
543+25.00	14	3	0	14	3	0	89	36	22
543+50.00	5	3	0	9	3	0	98	36	28
543+75.00	4	3	0	4	3	0	102	36	29
546+75.00	4	3	0	0	0	0	102	36	29
547+00.00	12	3	0	7	3	0	109	36	33
547+25.00	10	3	0	10	3	0	119	36	40
547+50.00	9	3	0	9	3	0	128	36	46
547+75.00	12	3	0	10	3	0	138	36	53
548+00.00	12	3	0	11	3	0	149	36	61
548+25.00	11	3	0	11	3	0	160	36	69
548+50.00	10	3	0	10	3	0	170	36	76
548+75.00	9	3	0	9	3	0	179	36	82
549+00.00	9	3	0	8	3	0	187	36	87
549+25.00	10	3	0	9	3	0	196	36	93
549+50.00	10	3	0	9	3	0	205	36	99
549+75.00	11	3	0	10	3	0	215	36	106
550+00.00	10	3	0	10	3	0	225	36	113
550+25.00	10	3	0	10	3	0	235	36	120
550+50.00	10	3	0	10	3	0	245	36	127
550+75.00	10	3	0	9	3	0	254	36	133
551+00.00	10	3	0	9	3	0	263	36	139
551+25.00	10	3	0	9	3	0	272	36	145
551+50.00	10	3	0	9	3	0	281	36	151
551+75.00	11	3	0	10	3	0	291	36	158
552+00.00	11	3	0	10	3	0	301	36	165
552+25.00	10	3	0	10	3	0	311	36	172
552+29.30	10	3	5	2	0	0	313	36	174

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

DIVISION - 3: B-58-116 (CONTINUED)

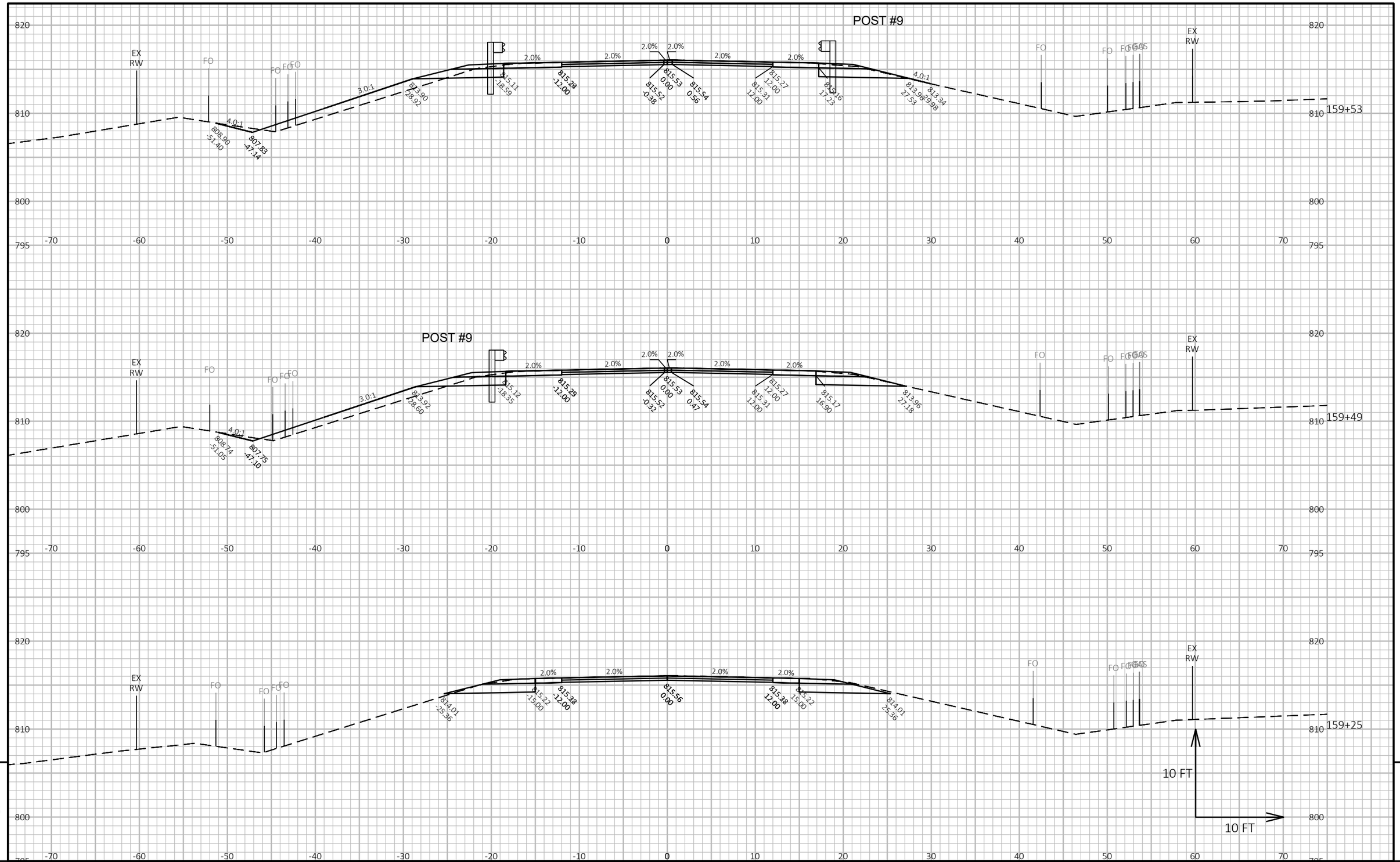
STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
				NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
552+50.00	9	3	8	7	2	5	320	43	172
552+54.30	10	3	9	2	0	1	322	44	173
552+75.00	13	3	16	9	2	9	331	56	168
552+79.19	14	3	17	2	0	3	333	60	166
553+00.00	14	3	13	11	2	12	344	76	159
553+25.00	10	3	10	11	3	11	355	90	153
553+48.10	7	3	9	7	3	8	362	101	146
553+50.00	6	3	9	0	0	1	362	102	145
553+73.10	10	3	11	7	3	9	369	114	137
553+75.00	11	3	11	1	0	1	370	116	136
553+98.09	13	3	27	10	3	16	380	137	122
554+00.00	12	3	28	1	0	2	381	140	120
554+25.00	7	3	26	9	3	25	390	173	93
554+50.00	4	3	23	5	3	23	395	203	65
554+75.00	4	3	19	4	3	20	399	230	39
555+00.00	3	3	15	3	3	16	402	251	18
555+25.00	3	3	11	3	3	12	405	267	2
555+50.00	2	3	6	2	3	8	407	278	-10
555+75.00	2	3	1	2	3	3	409	282	-15
556+00.00	2	3	4	2	3	2	411	285	-19
				411	145	214			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

DIVISION - 4: C-7482

STATION	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
				NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.33	NOTE 8
584+50.00	5	2	10	0	0	0	0	0	0
584+75.00	5	2	9	5	1	9	5	12	-8
585+00.00	5	2	10	5	1	9	10	24	-16
585+25.00	7	2	9	6	1	9	16	36	-23
585+50.00	8	2	10	7	1	9	23	48	-29
585+75.00	13	2	11	10	1	10	33	61	-33
586+00.00	14	2	11	12	1	10	45	74	-35
586+25.00	11	2	11	12	1	10	57	88	-38
586+50.00	12	2	13	11	1	11	68	102	-42
586+75.00	12	2	14	11	1	12	79	118	-48
587+00.00	14	2	14	12	1	13	91	136	-55
587+25.00	16	2	12	13	1	12	104	152	-59
587+50.00	17	2	9	15	1	10	119	165	-58
587+75.00	13	2	5	14	1	7	133	174	-54
588+00.00	10	2	3	11	1	4	144	180	-50
588+25.00	4	2	5	7	1	4	151	185	-49
588+50.00	1	3	28	3	2	15	154	205	-68
588+75.00	4	3	38	2	3	31	156	246	-110
589+00.00	6	3	59	5	3	45	161	306	-168
589+25.00	8	3	104	7	3	75	168	406	-264
589+50.00	10	3	136	9	3	111	177	553	-405
589+75.00	7	3	139	8	3	127	185	722	-569
590+00.00	7	3	189	7	3	152	192	924	-767
590+25.00	9	3	227	7	3	192	199	1,180	-1,019
590+47.26	8	3	410	7	2	262	206	1,528	-1,362
590+75.00	12	3	154	10	3	289	216	1,913	-1,740
591+00.00	13	3	65	12	3	101	228	2,047	-1,865
591+25.00	15	3	23	13	3	41	241	2,101	-1,909
591+50.00	24	3	0	18	3	11	259	2,116	-1,909
				259	52	1,591			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)



9

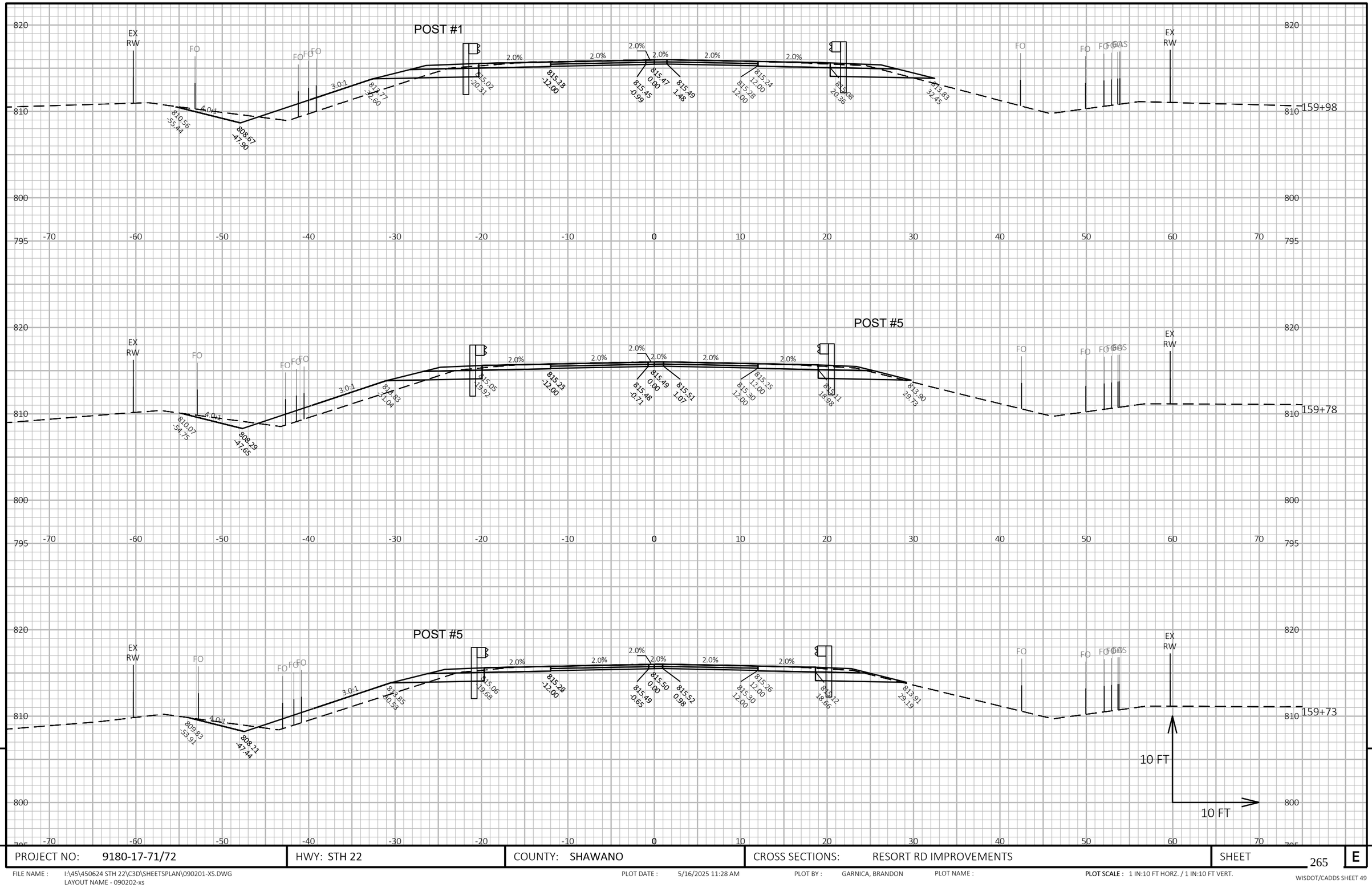
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD IMPROVEMENTS	SHEET 264	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 5/16/2025 11:27 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

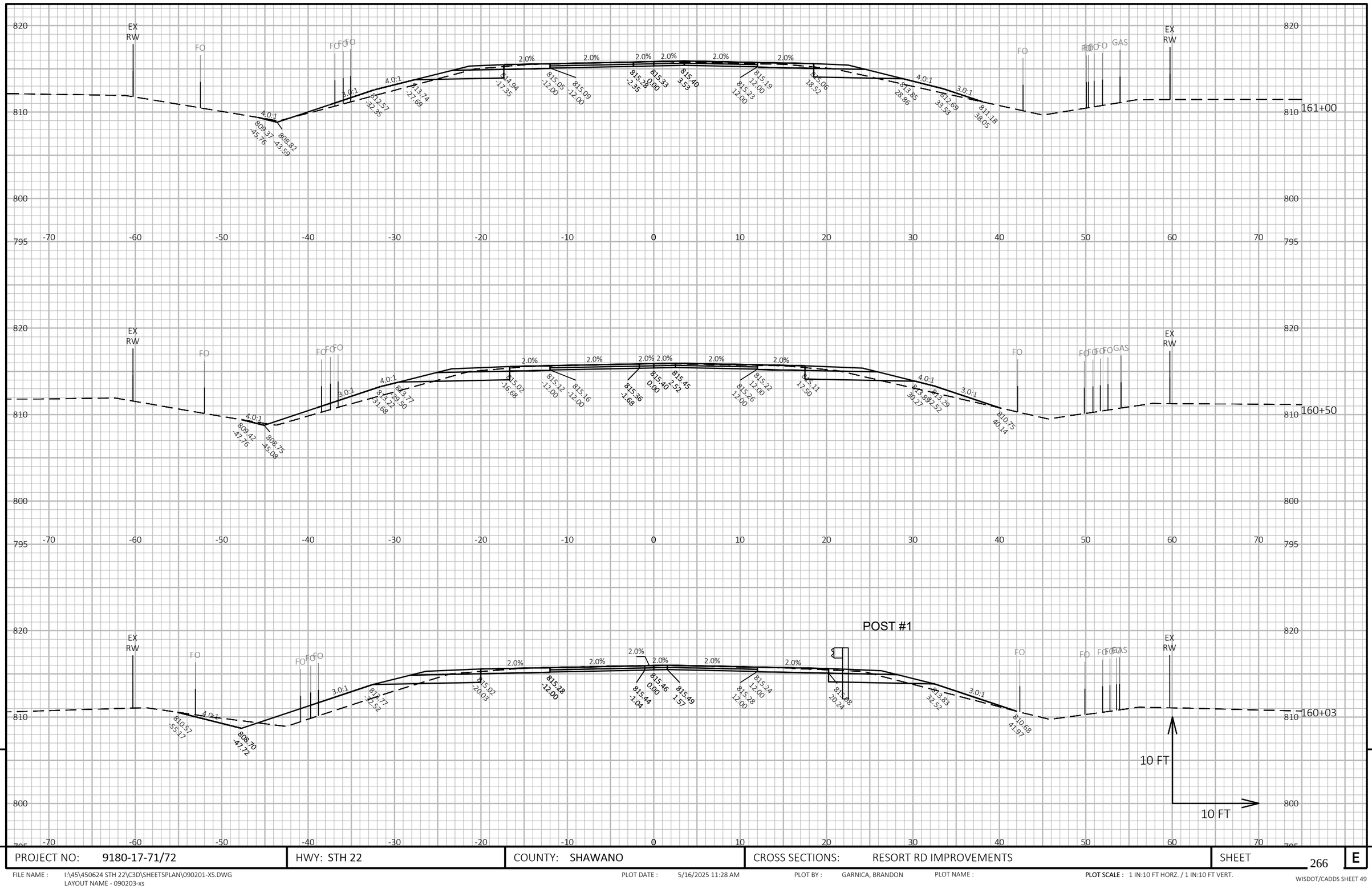
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD IMPROVEMENTS	SHEET 265	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 5/16/2025 11:28 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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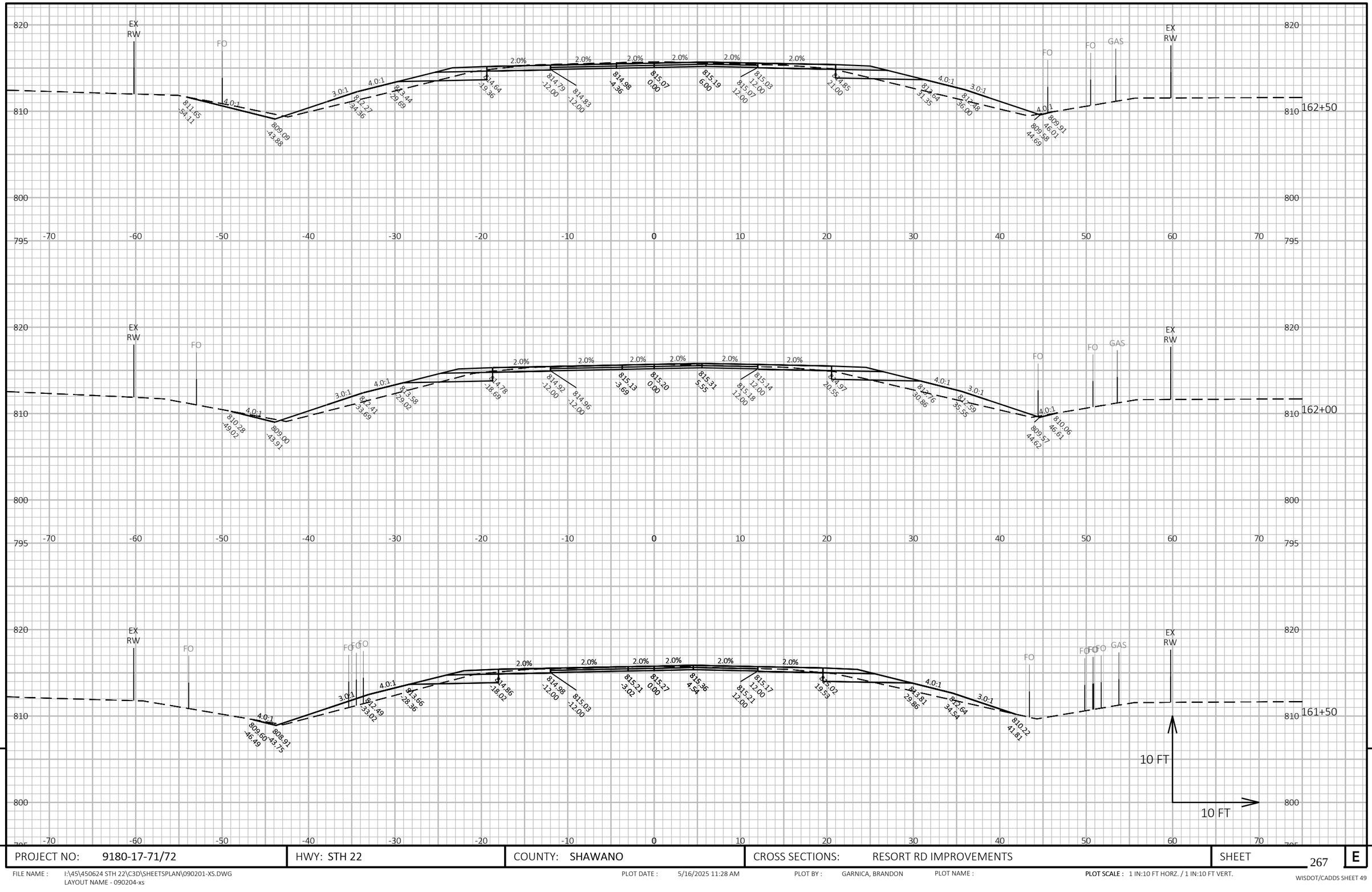
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD IMPROVEMENTS	SHEET 266	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090203-xs

PLOT DATE : 5/16/2025 11:28 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



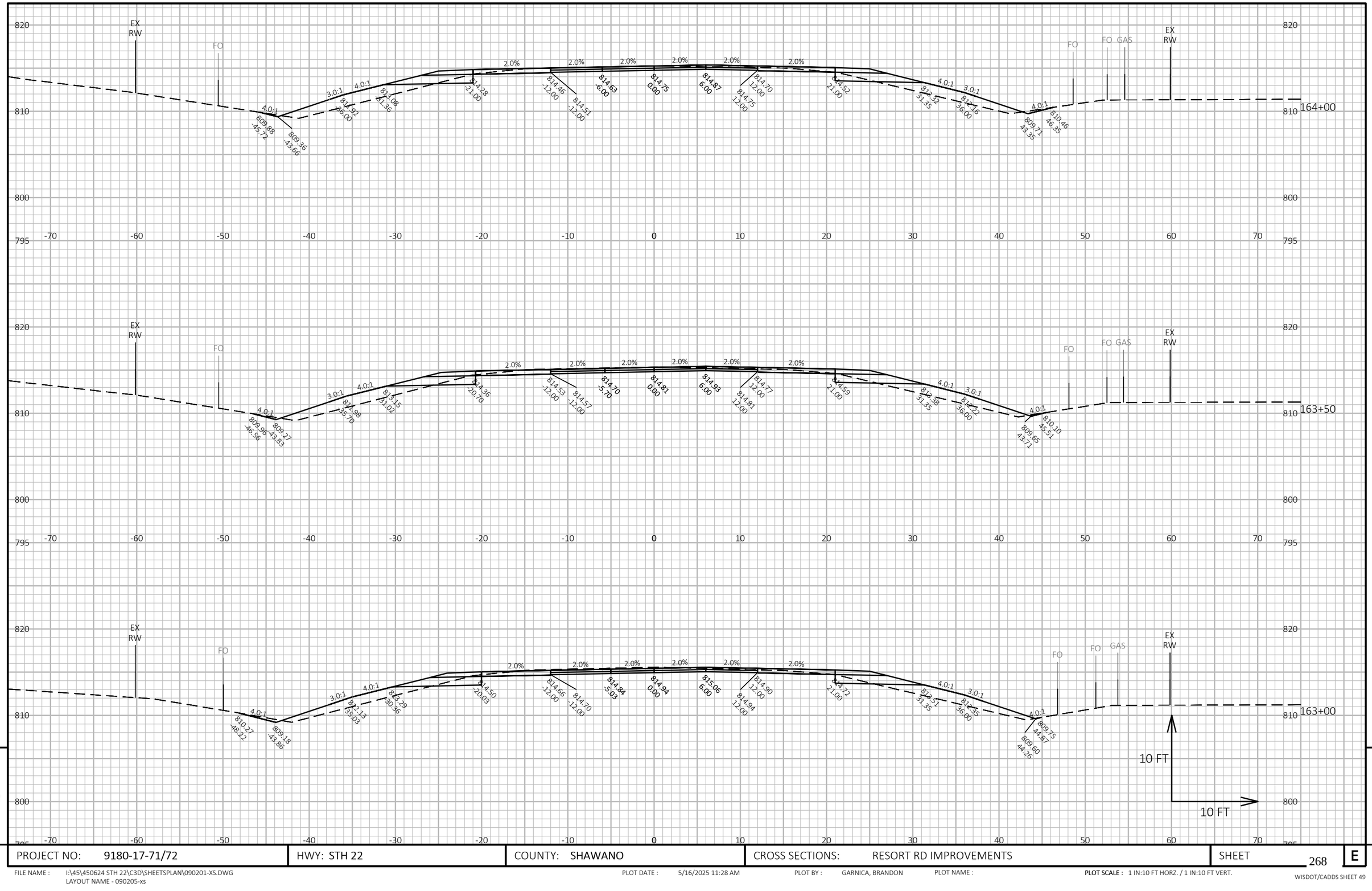
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD IMPROVEMENTS	SHEET 267	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 5/16/2025 11:28 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

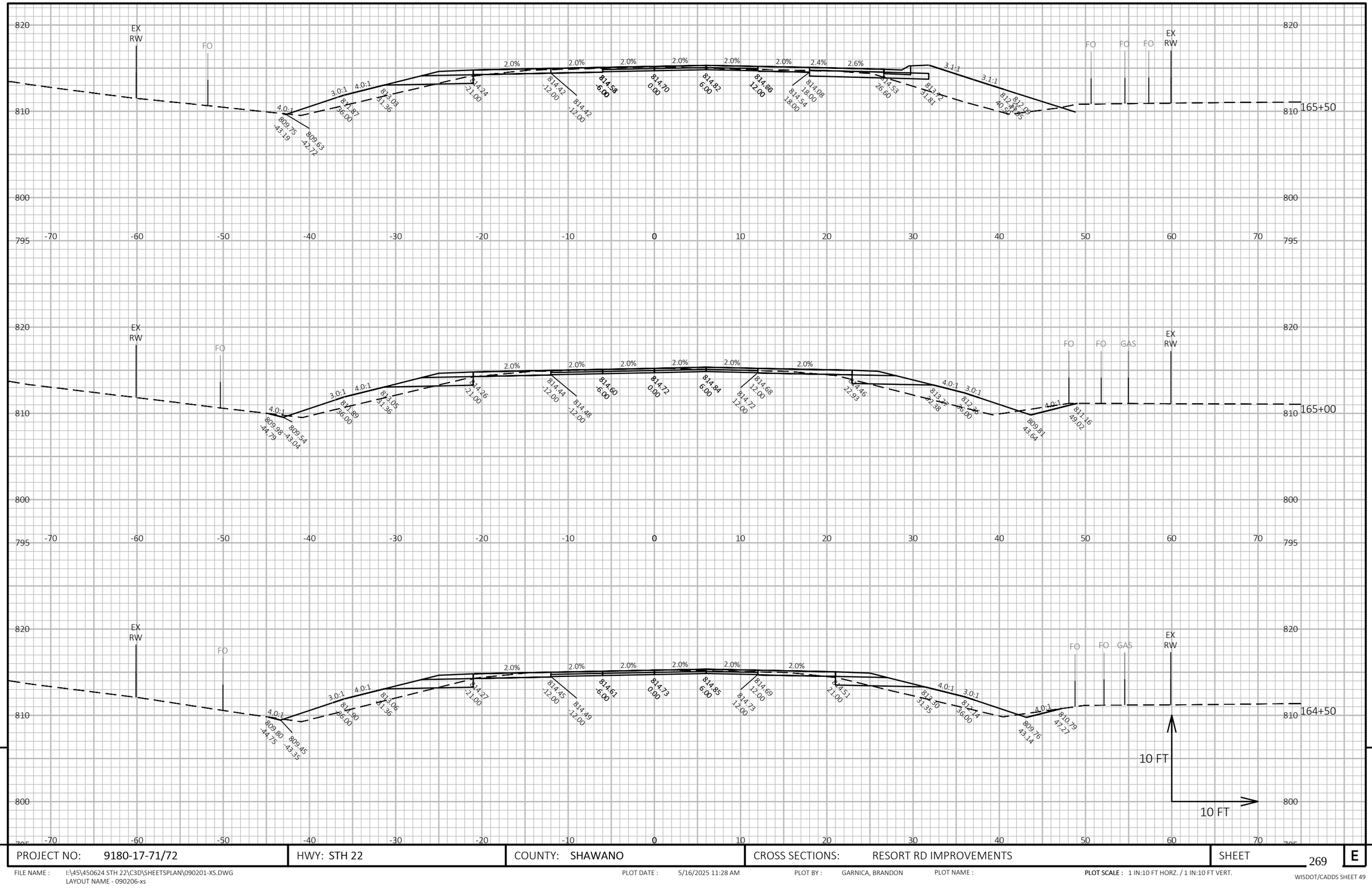
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD IMPROVEMENTS	SHEET 268	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090205-xs

PLOT DATE : 5/16/2025 11:28 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



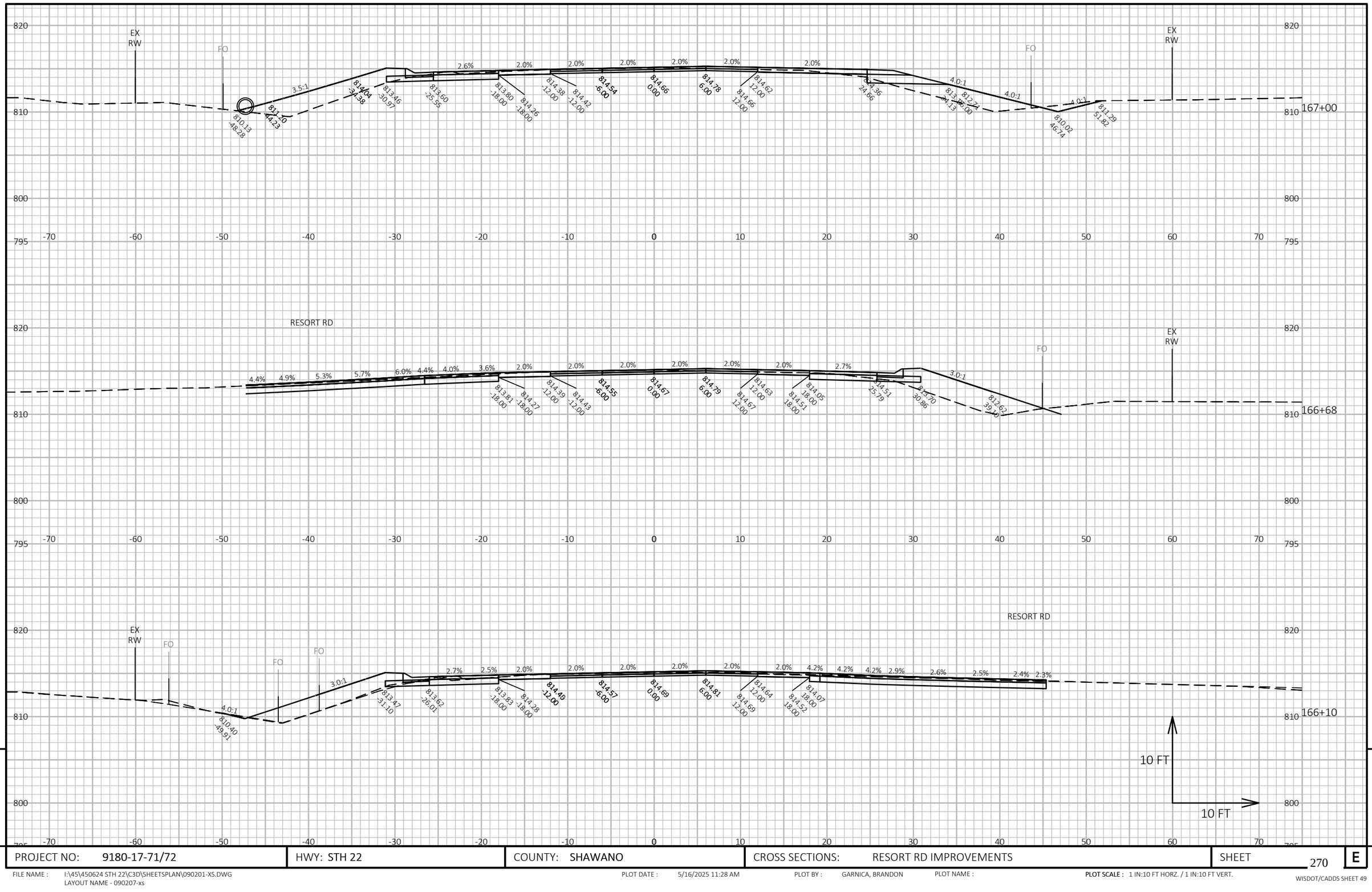
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD IMPROVEMENTS	SHEET 269	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090206-xs

PLOT DATE : 5/16/2025 11:28 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

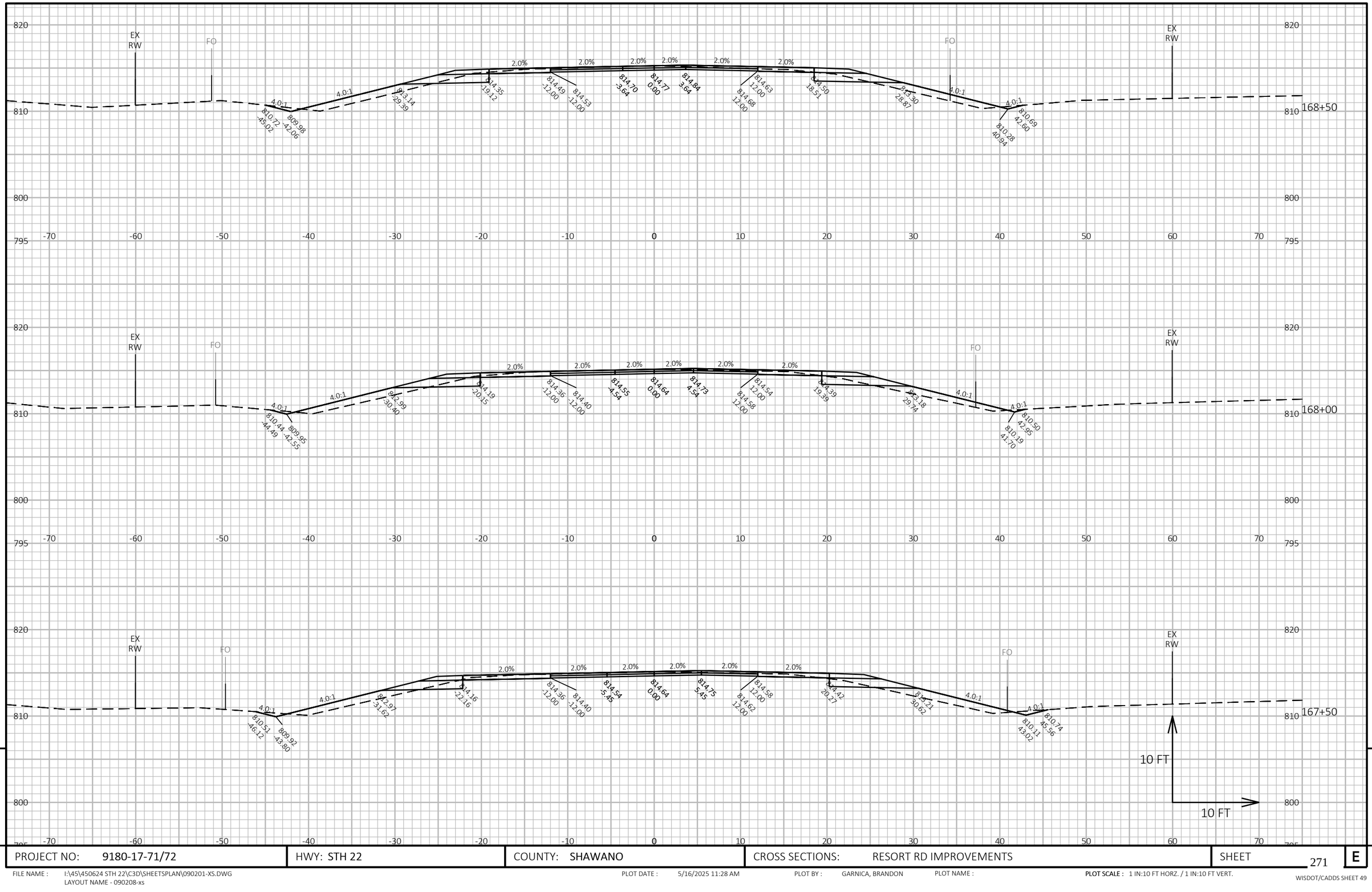


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD IMPROVEMENTS	SHEET 270 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090207-xs

PLOT DATE : 5/16/2025 11:28 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

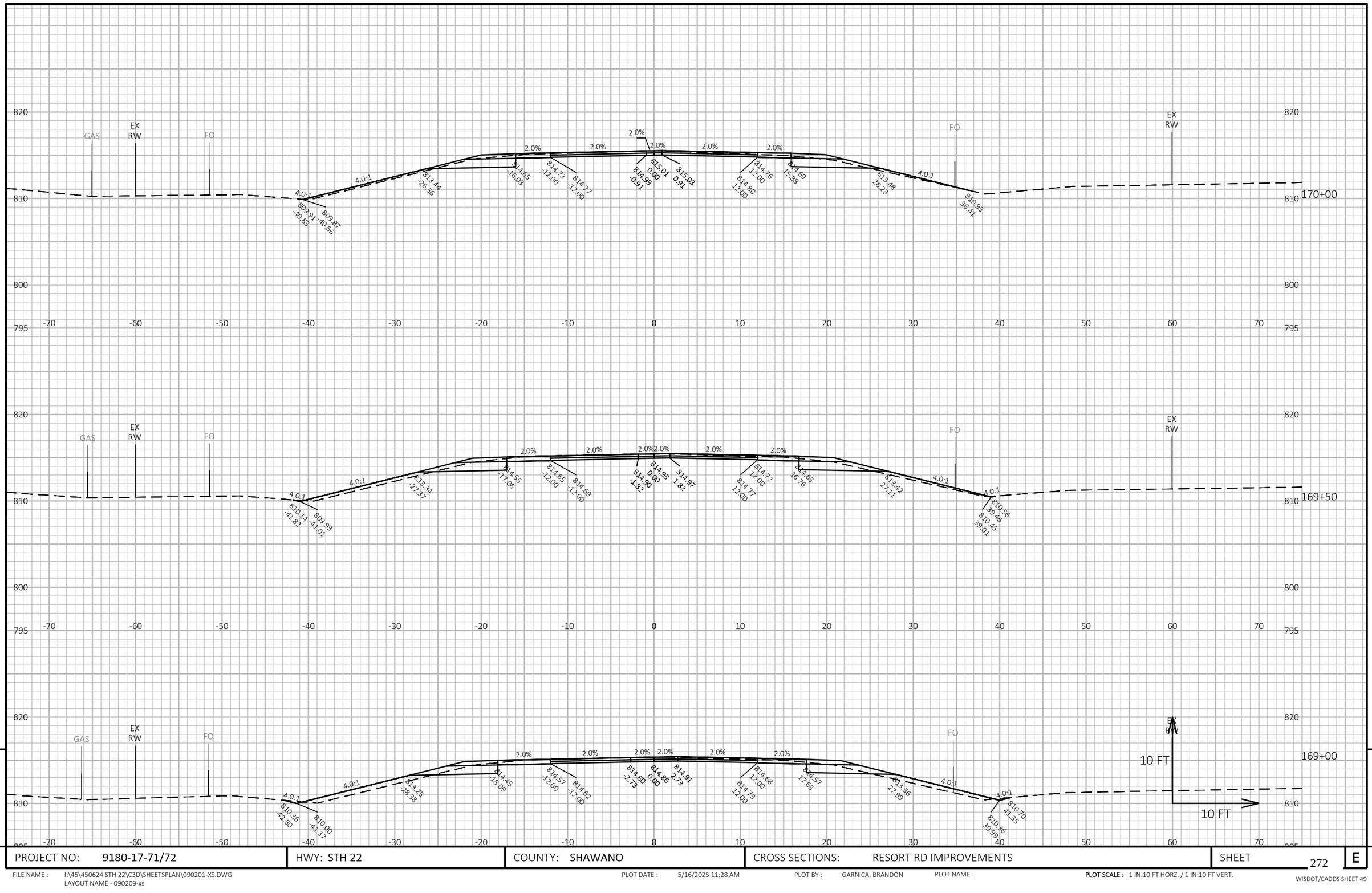
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD IMPROVEMENTS	SHEET 271	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090208-xs

PLOT DATE : 5/16/2025 11:28 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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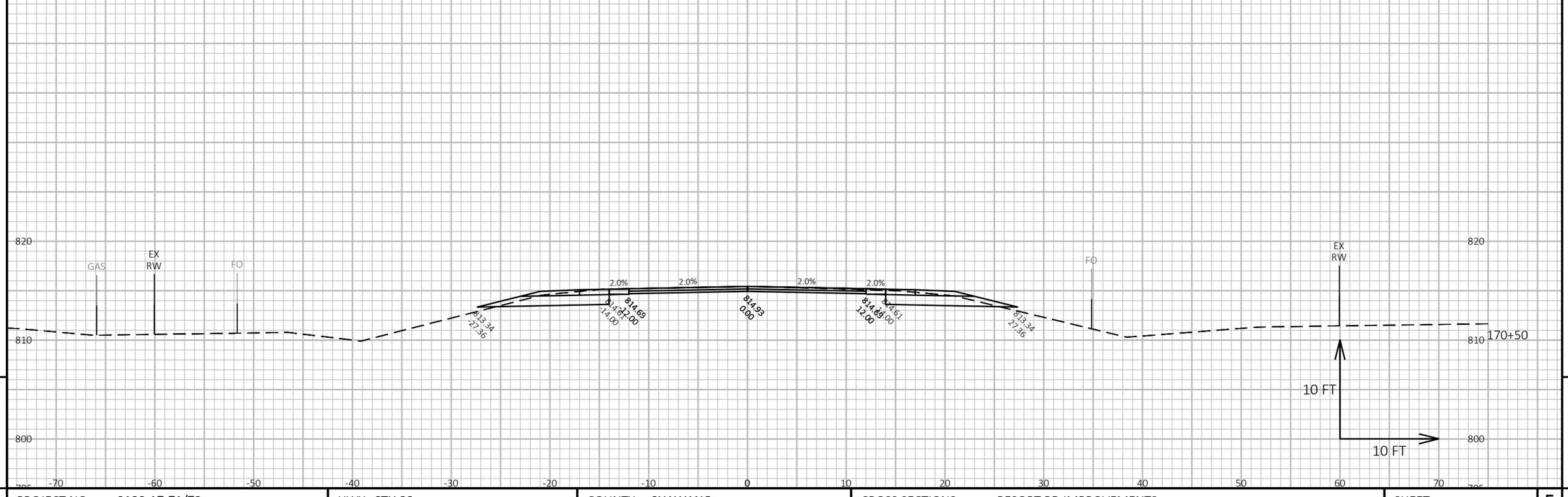
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD IMPROVEMENTS	SHEET 272	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090209-xs

PLOT DATE : 5/16/2025 11:28 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



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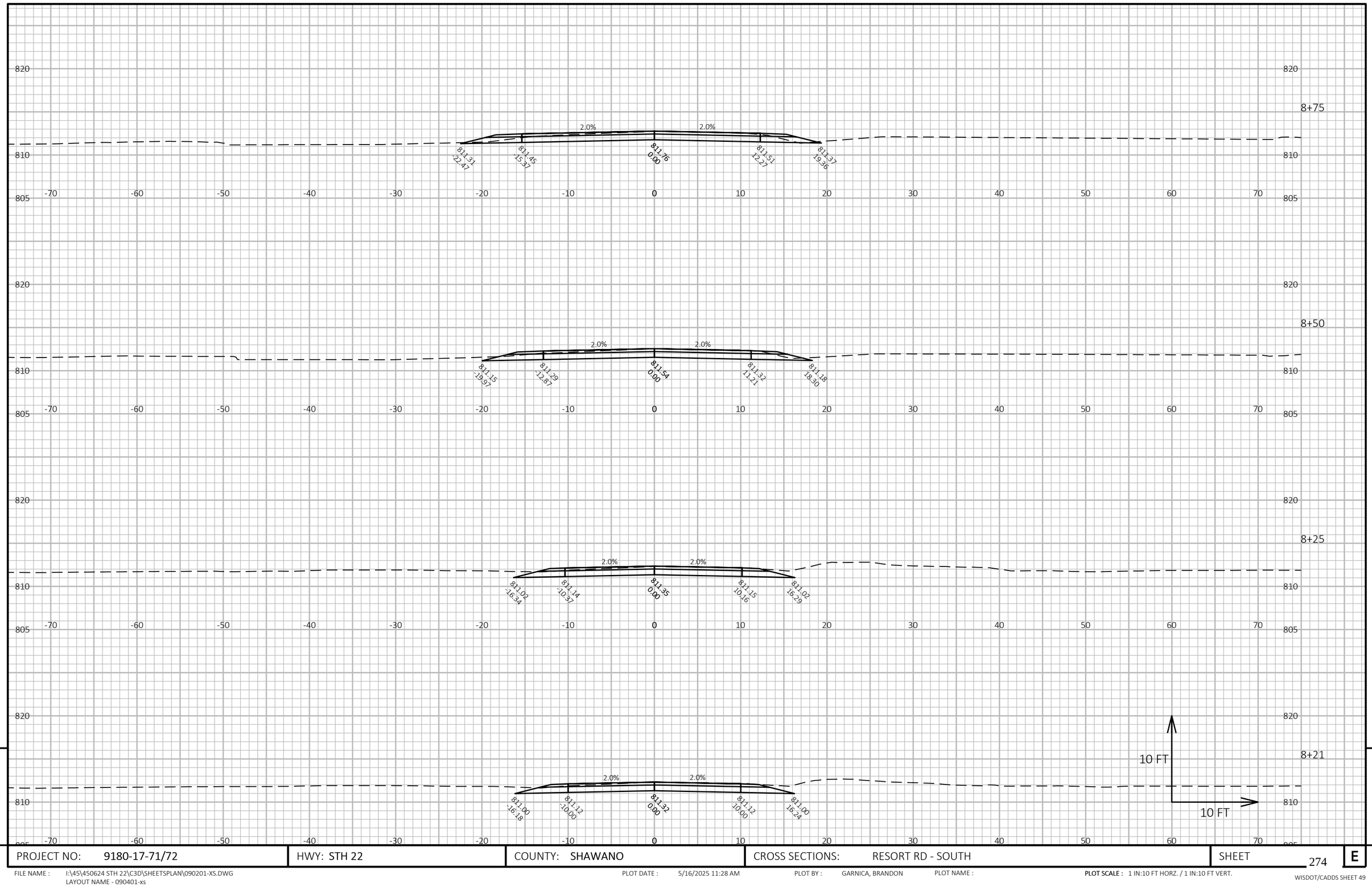
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD IMPROVEMENTS	SHEET 273	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090210-xs

PLOT DATE : 5/16/2025 11:28 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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



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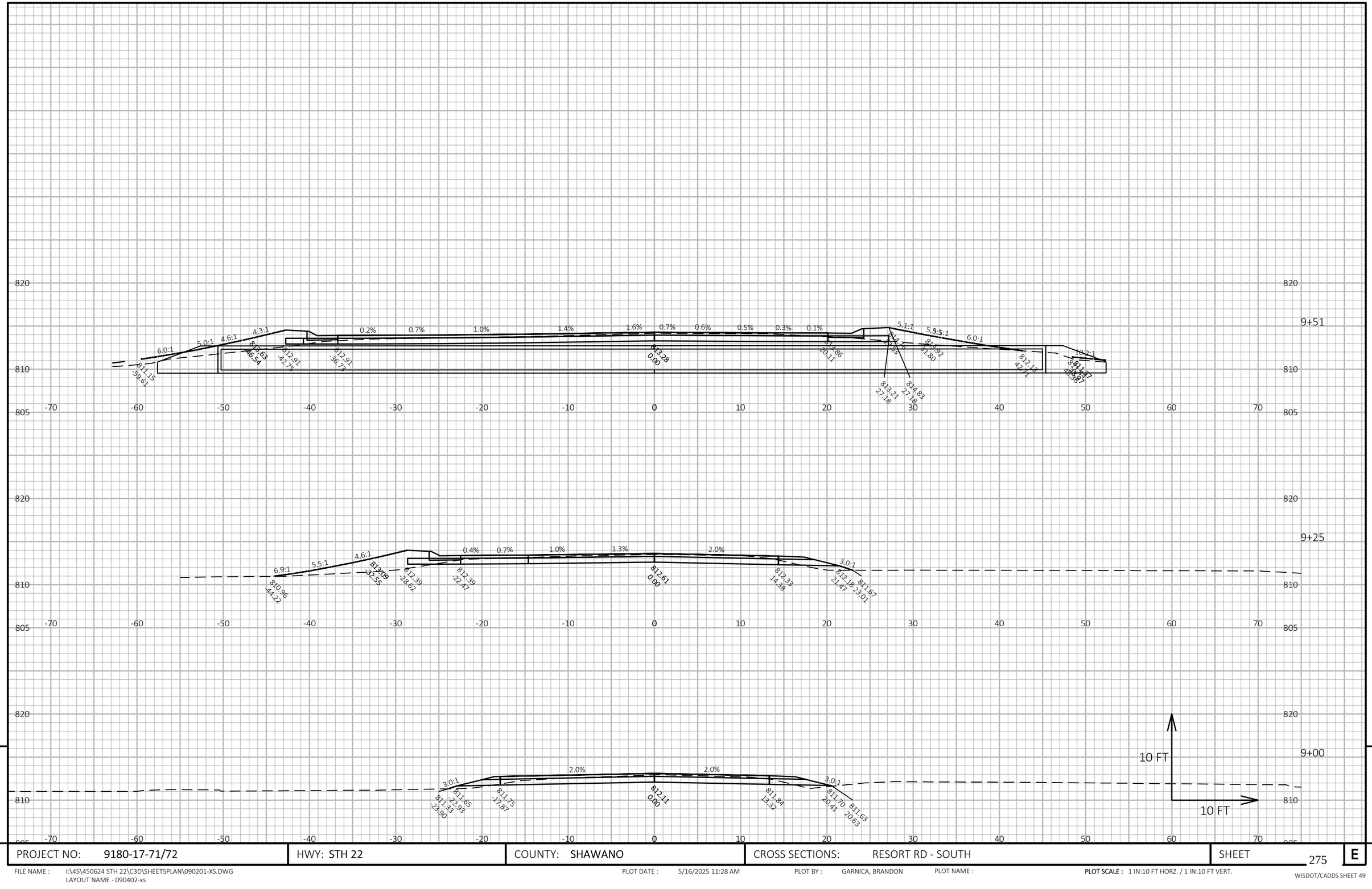
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD - SOUTH	SHEET 274	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090401-xs

PLOT DATE : 5/16/2025 11:28 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



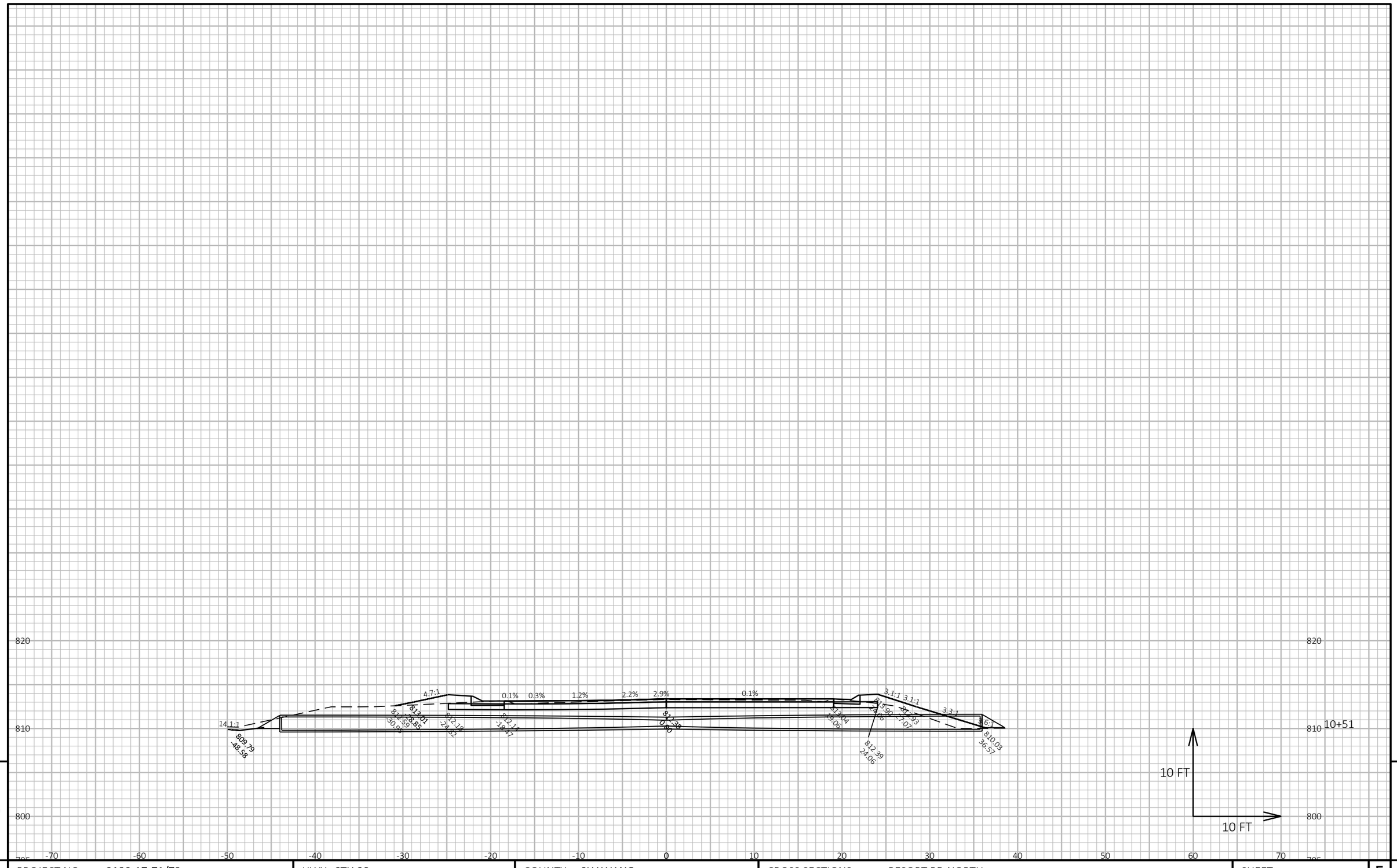
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD - SOUTH	SHEET 275	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090402-xs

PLOT DATE : 5/16/2025 11:28 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

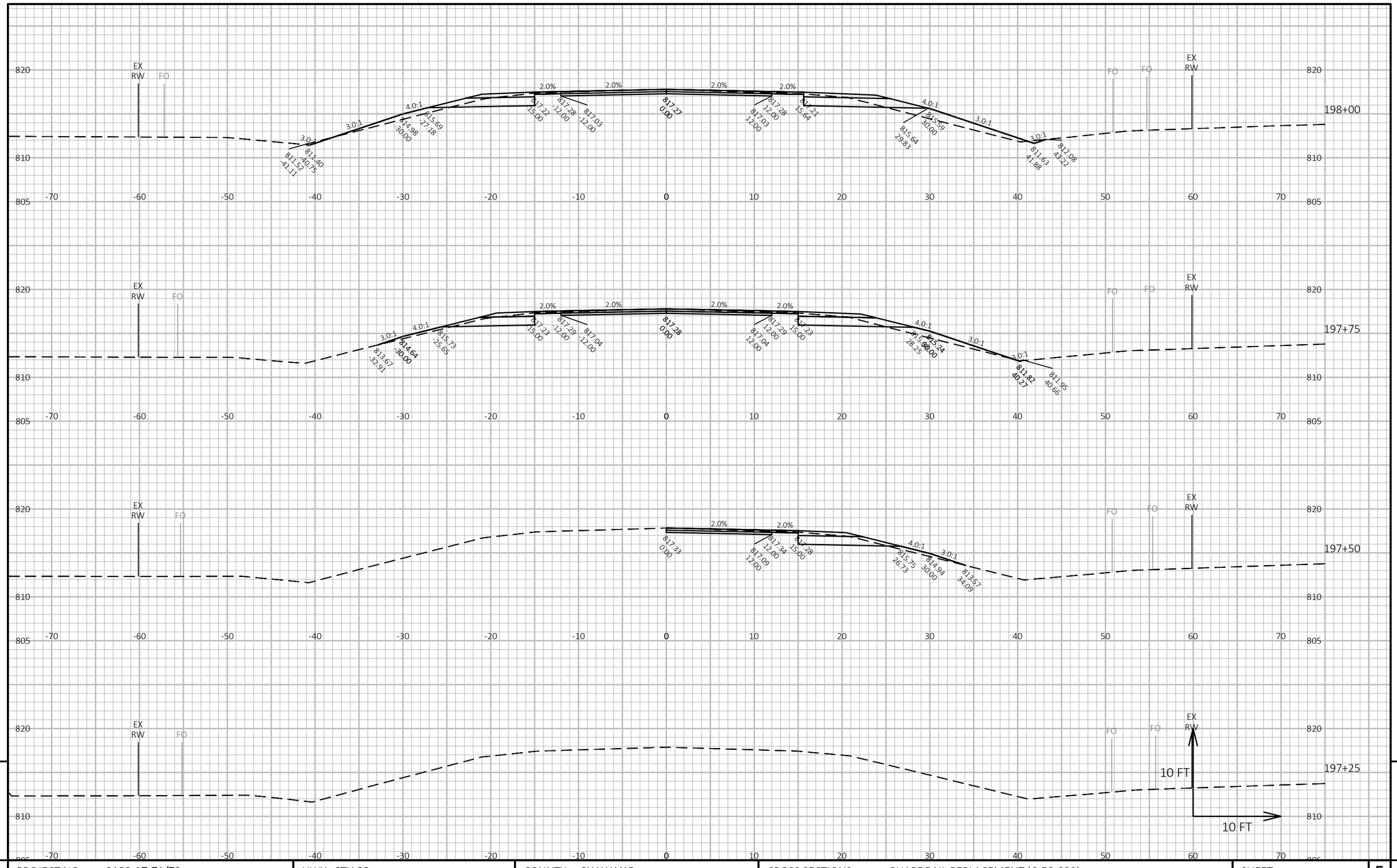
WISDOT/CADDS SHEET 49



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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RESORT RD NORTH	SHEET 276	E

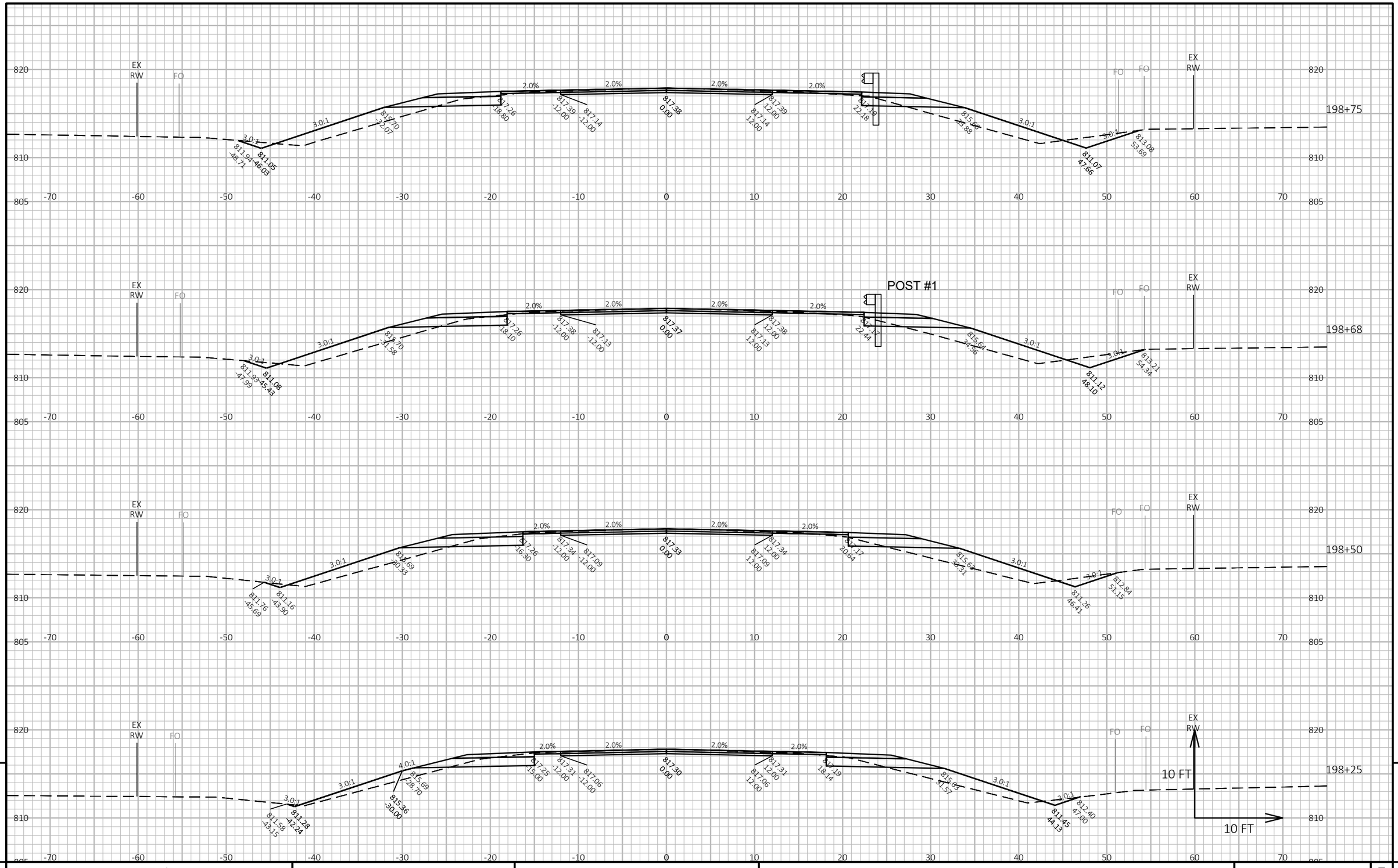


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-022)	SHEET 277 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090211-xs

PLOT DATE : 5/16/2025 11:29 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



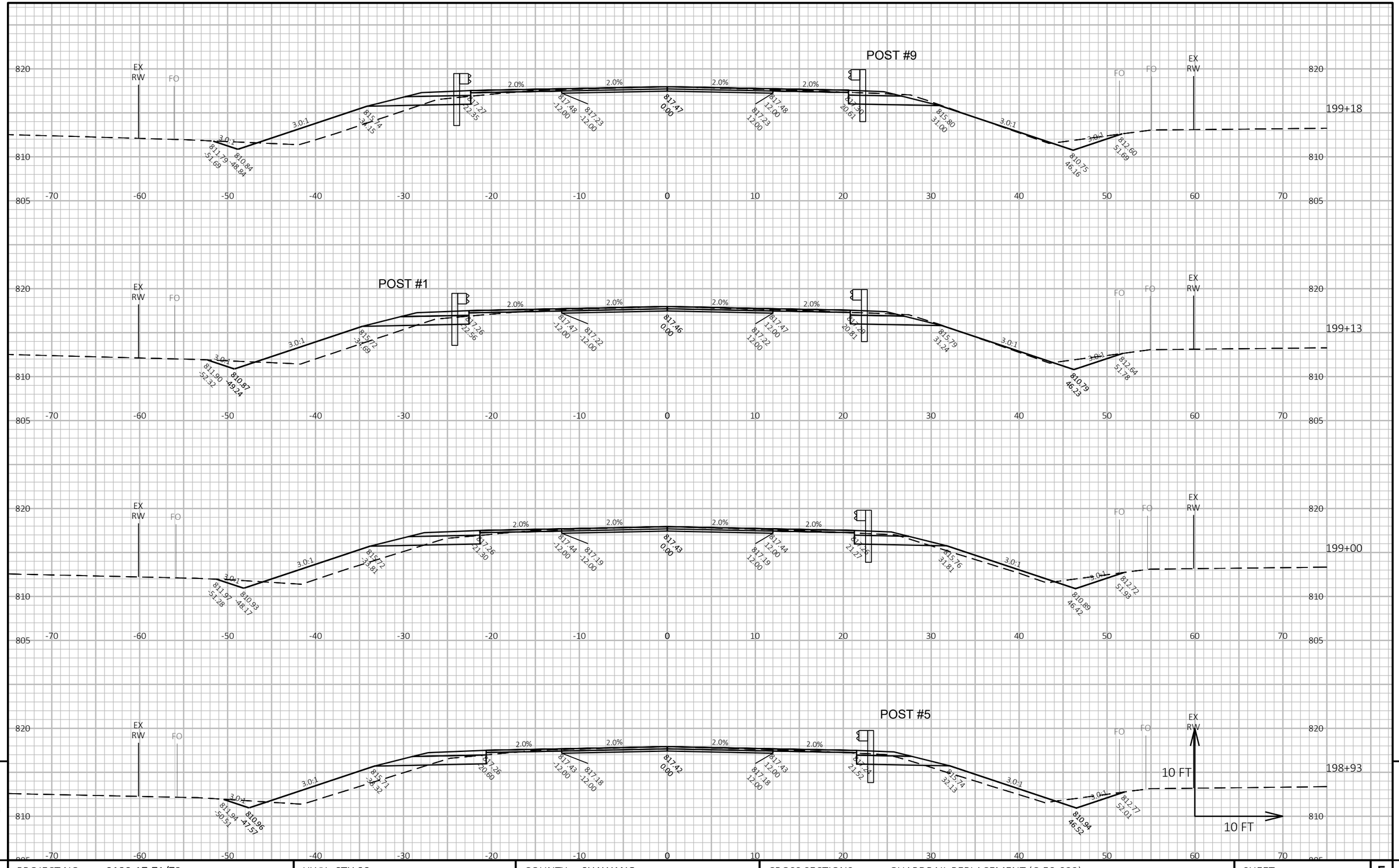
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-022)	SHEET 278	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090212-xs

PLOT DATE : 5/16/2025 11:29 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



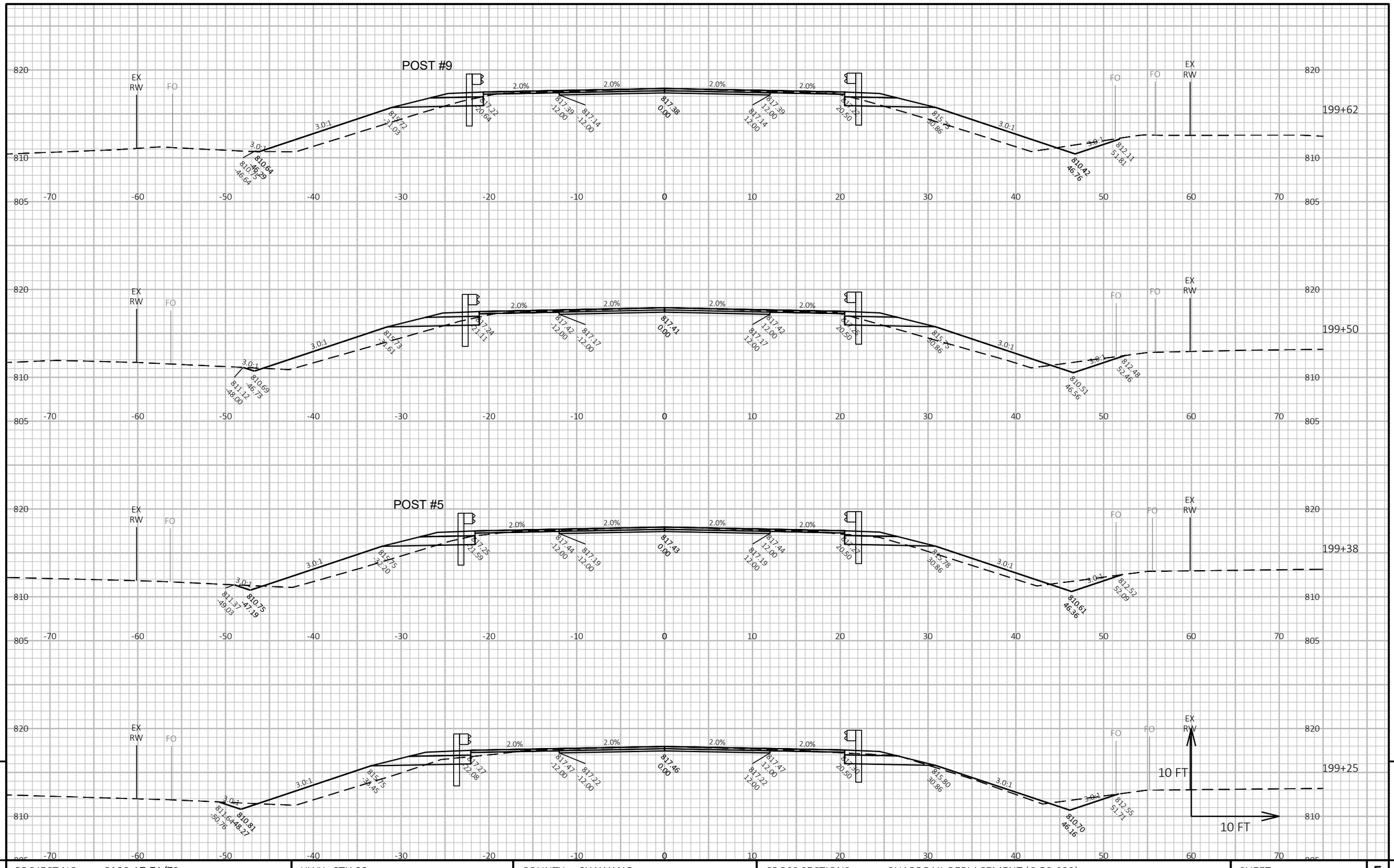
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-022)	SHEET 279	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090213-xs

PLOT DATE : 5/16/2025 11:29 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



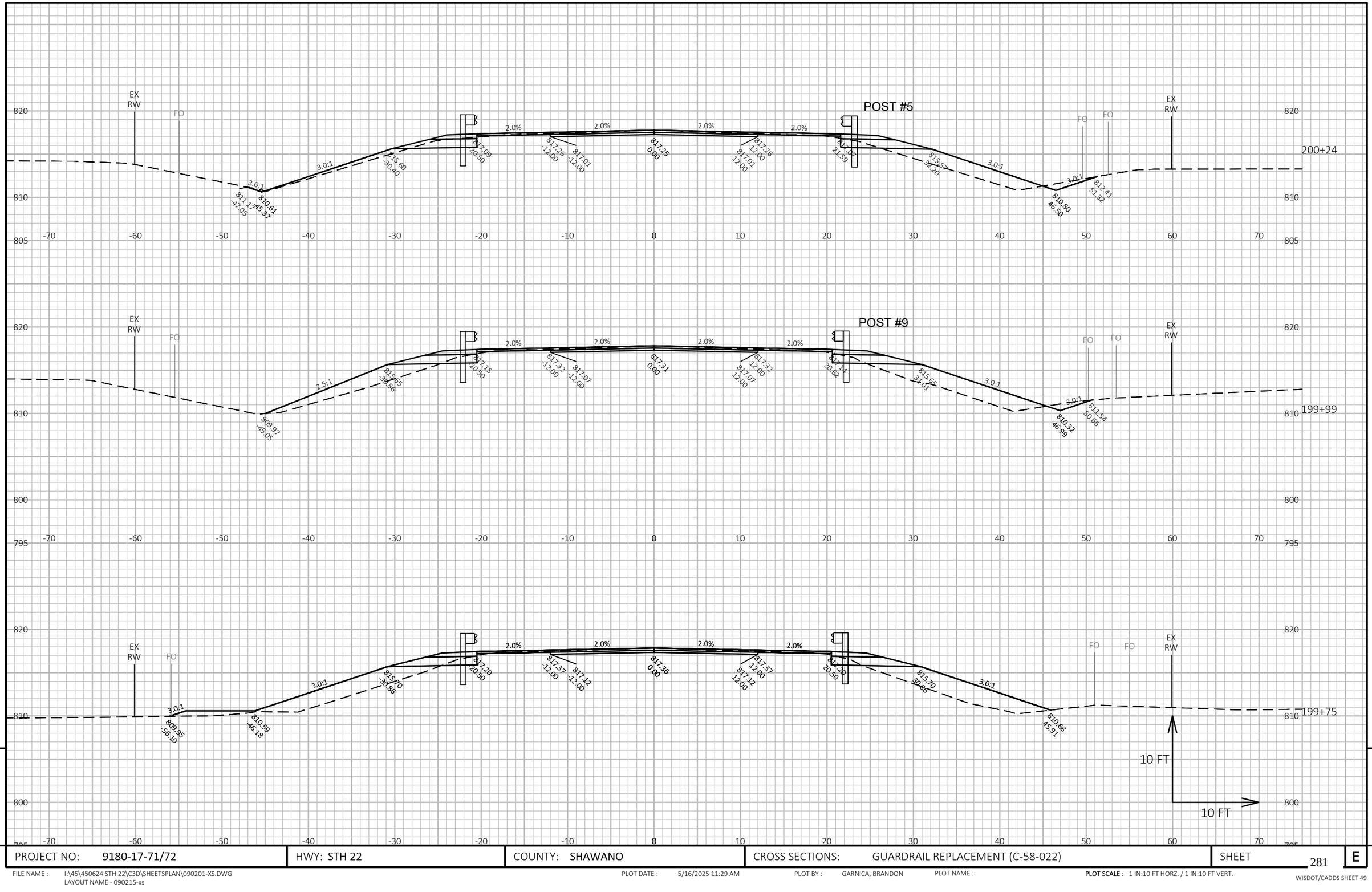
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-022)	SHEET 280	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090214-xs

PLOT DATE : 5/16/2025 11:29 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

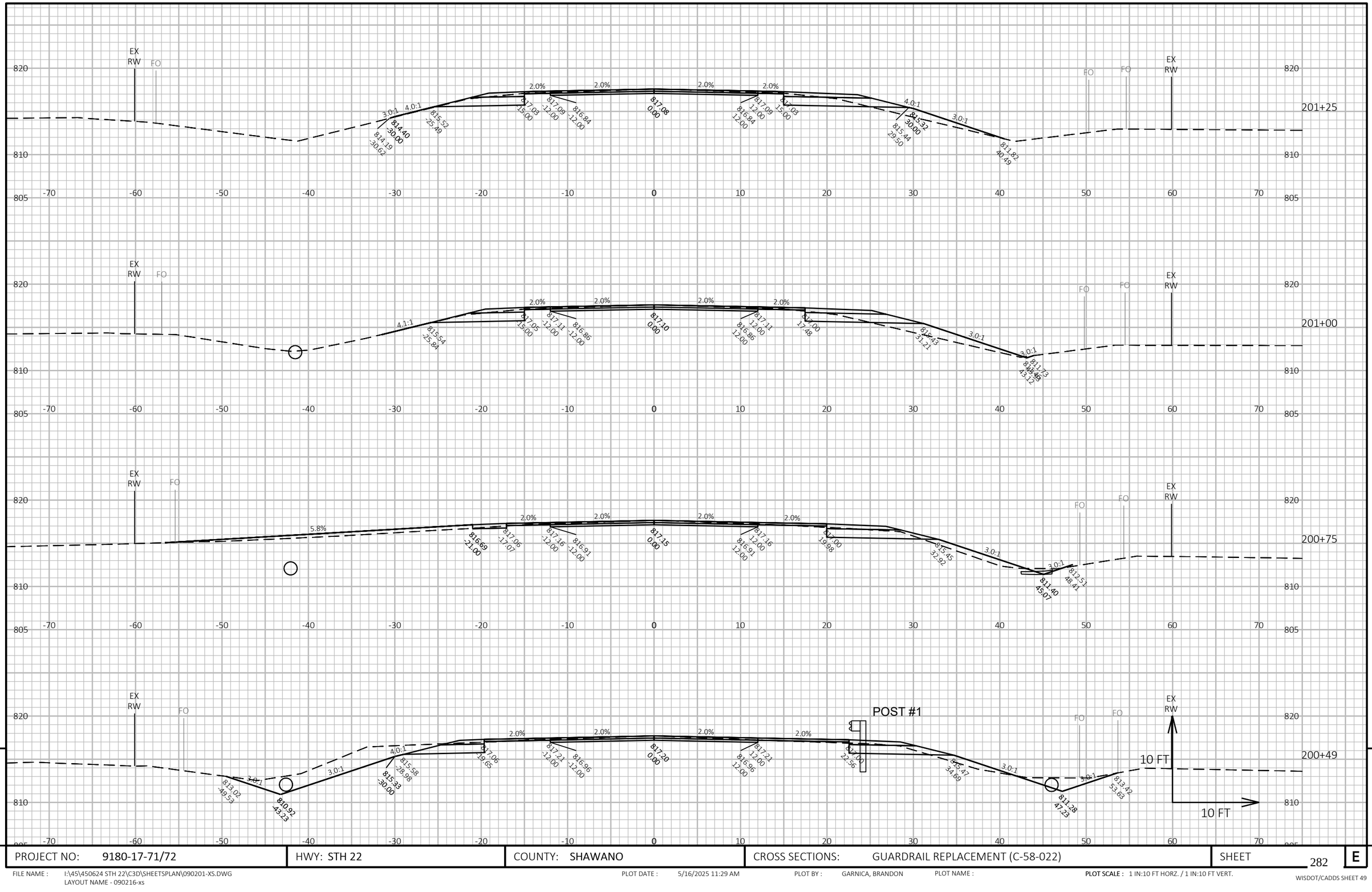


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-022)	SHEET 281	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090215-xs

PLOT DATE : 5/16/2025 11:29 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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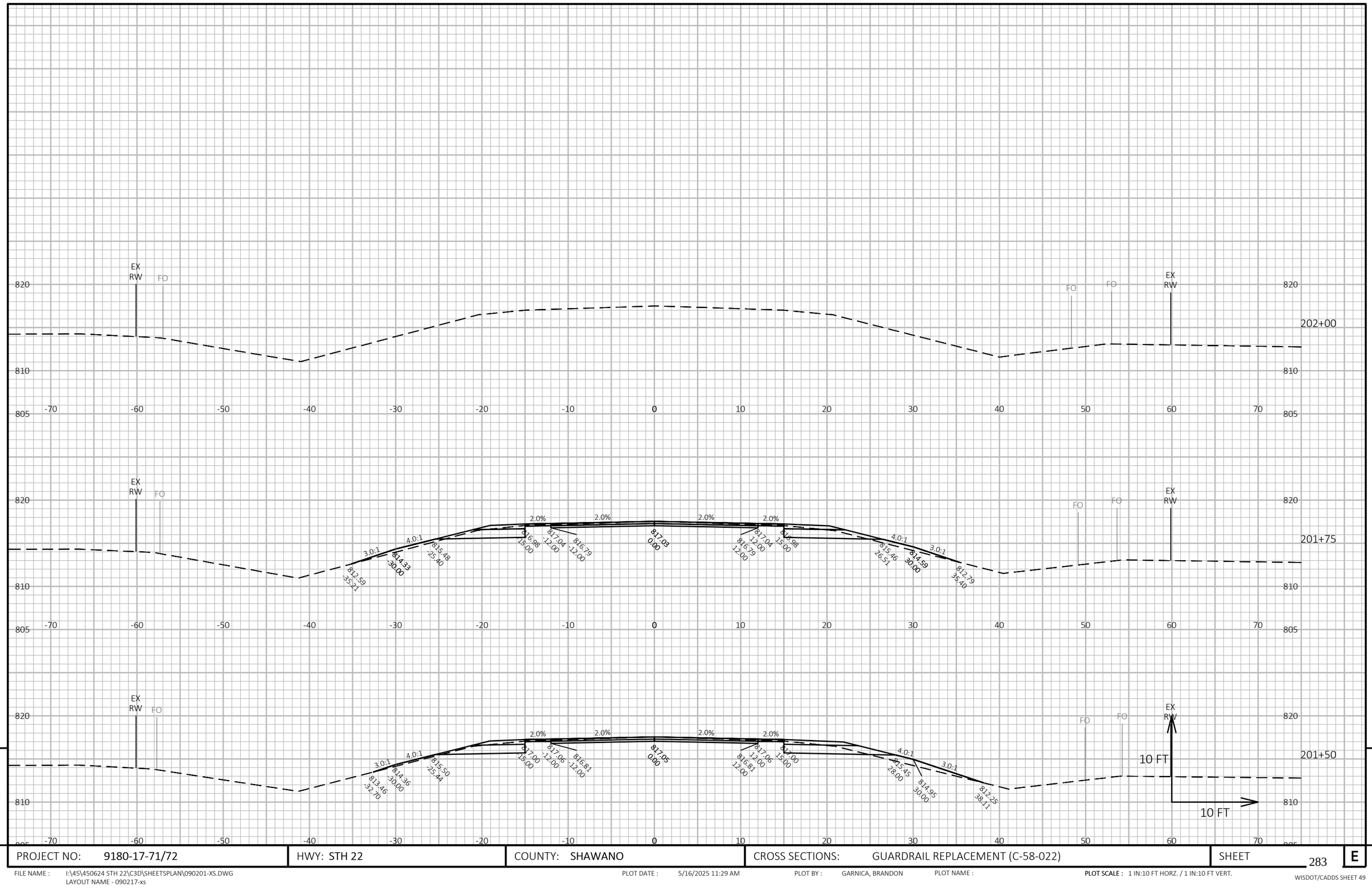
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-022)	SHEET 282	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090216-xs

PLOT DATE : 5/16/2025 11:29 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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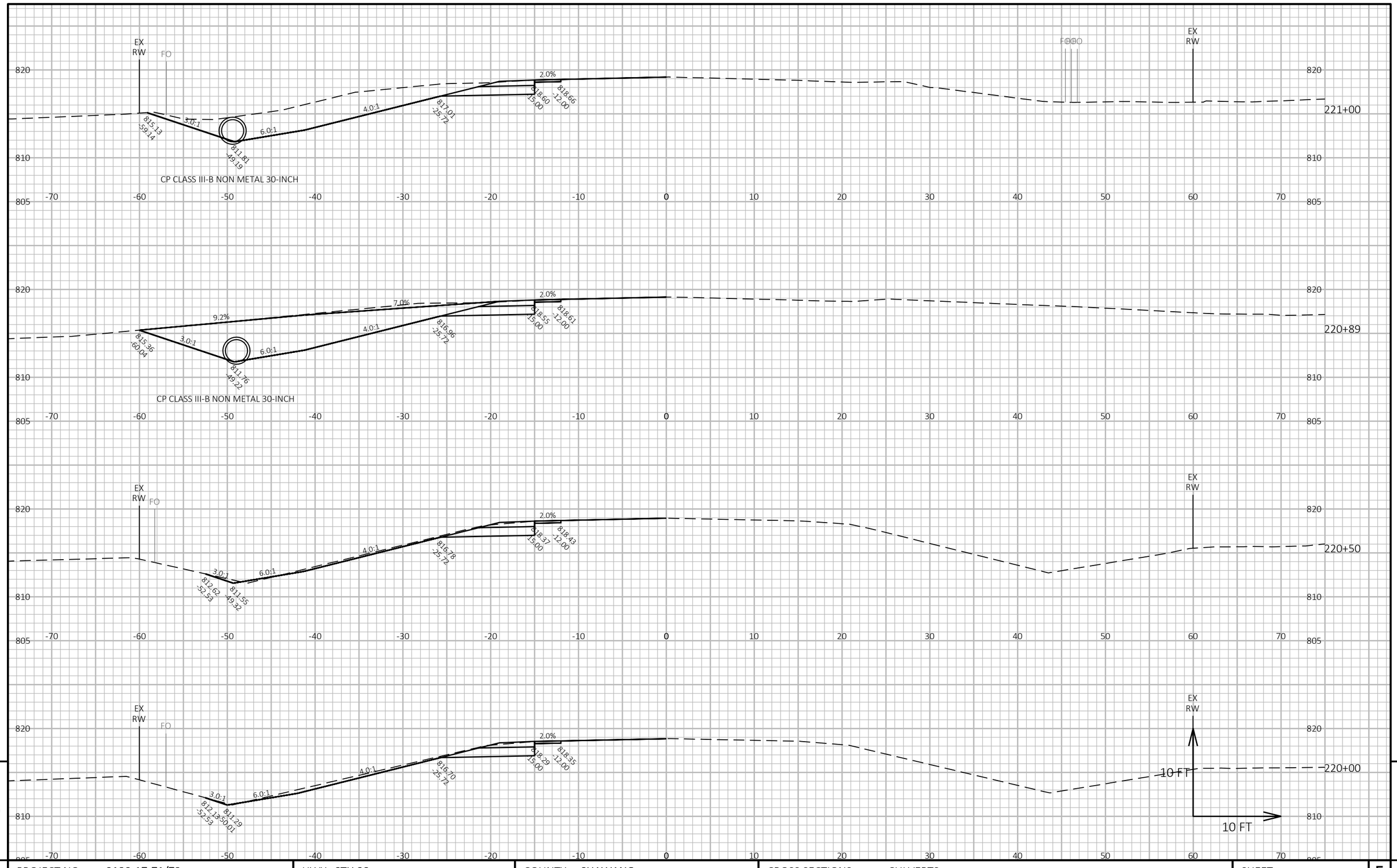
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-022)	SHEET 283	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090217-xs

PLOT DATE : 5/16/2025 11:29 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

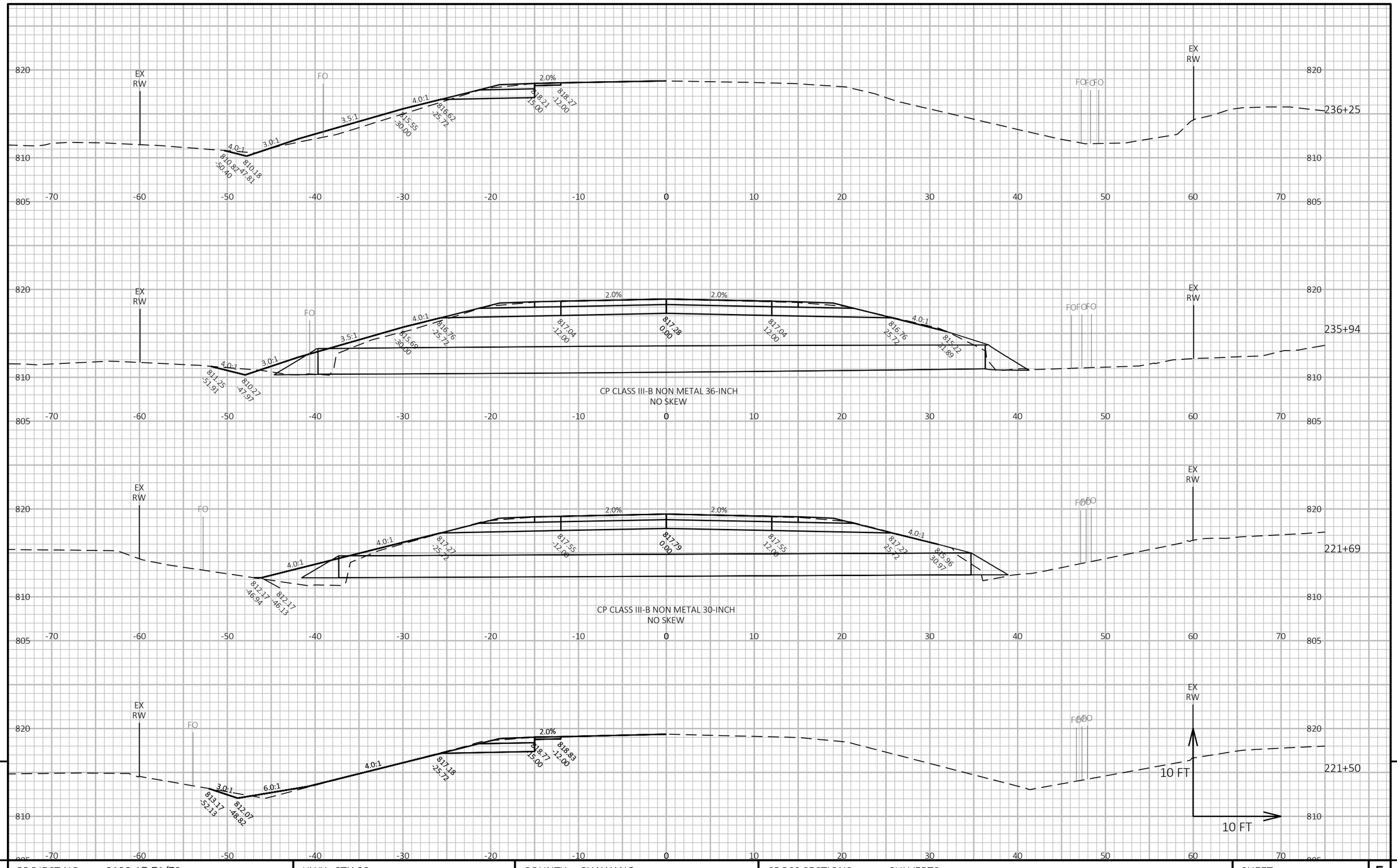
WISDOT/CADDS SHEET 49



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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 284	E



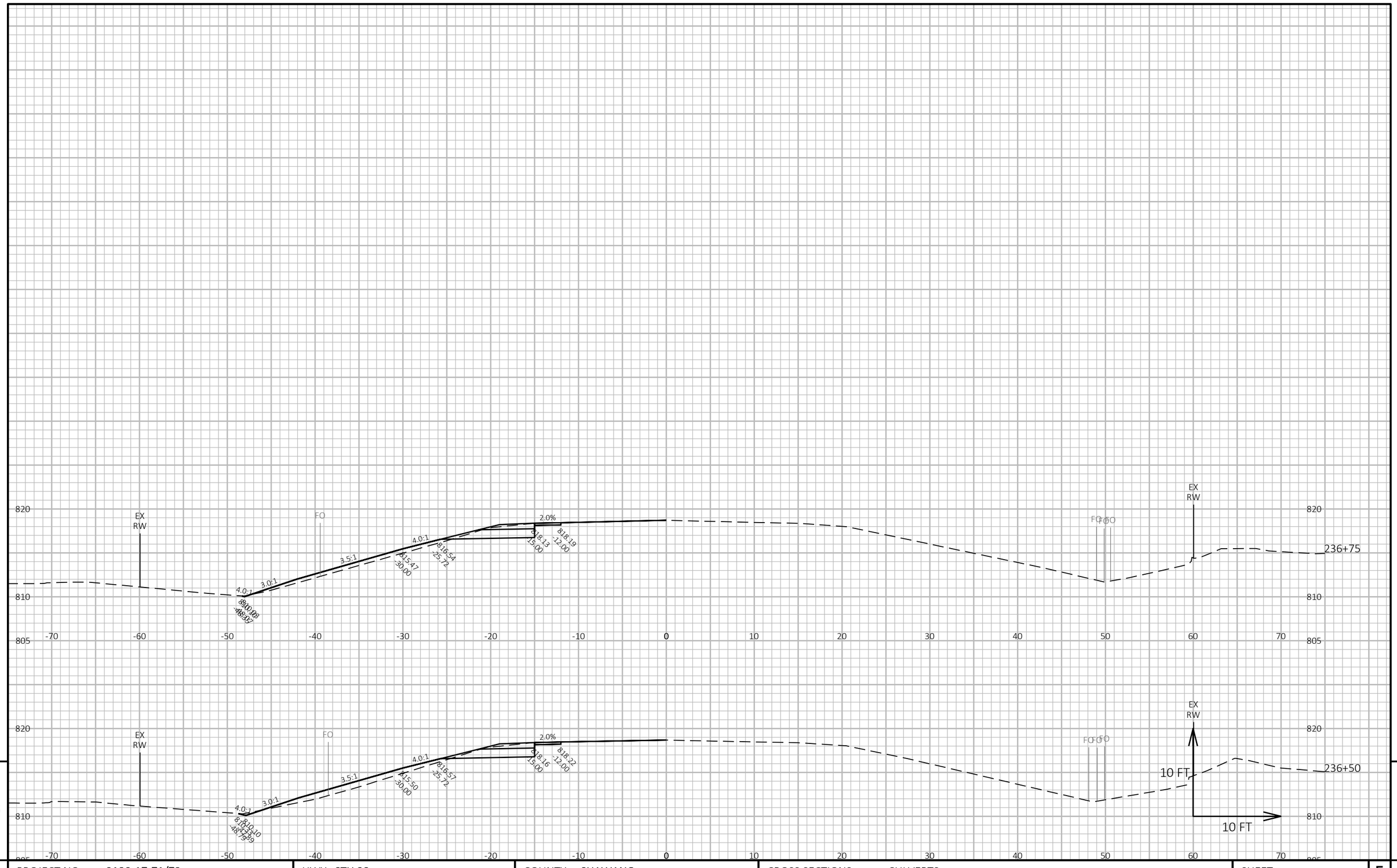
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 285	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090219-xs

PLOT DATE : 5/16/2025 11:29 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



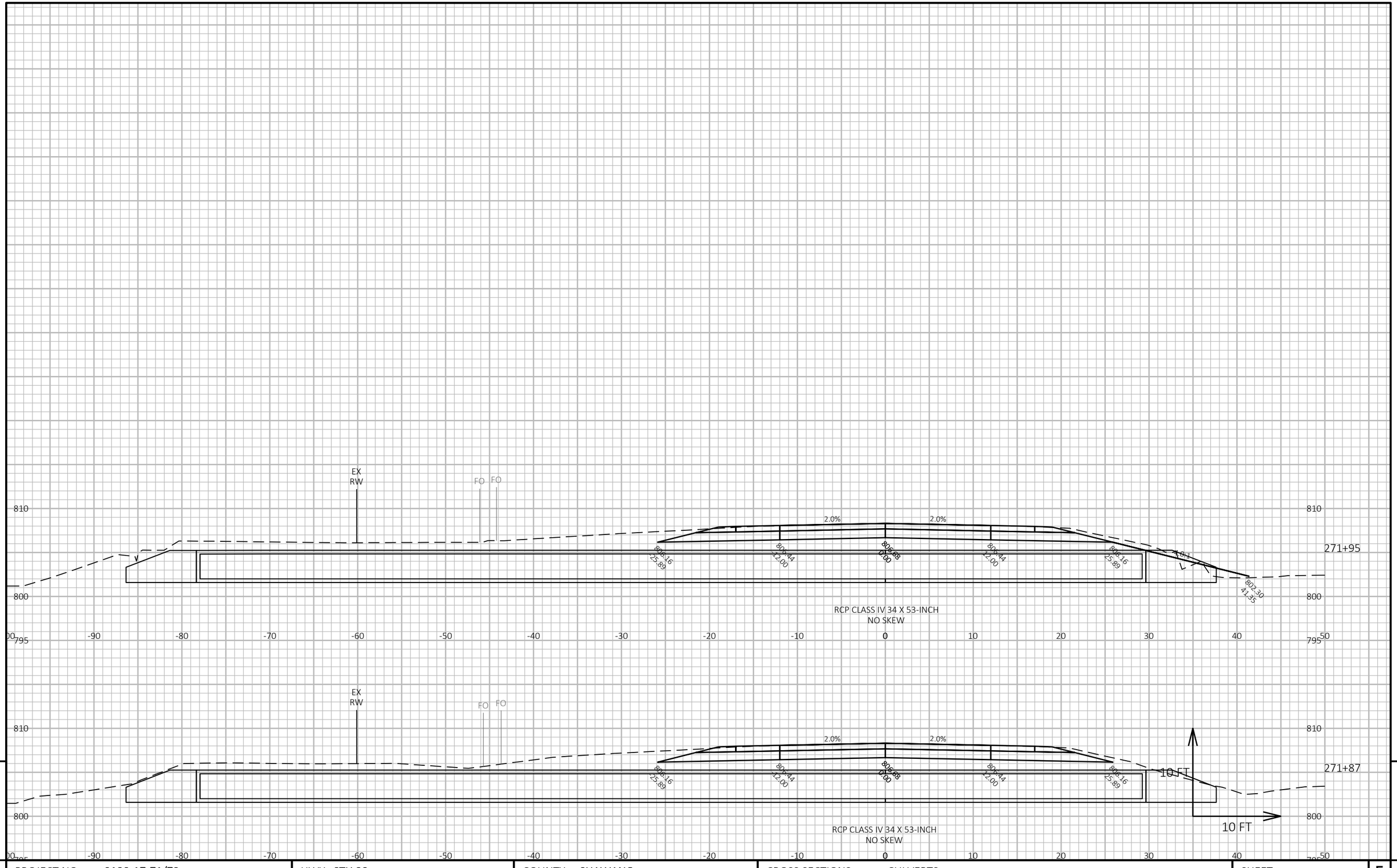
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 286	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090220-xs

PLOT DATE : 5/16/2025 11:29 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



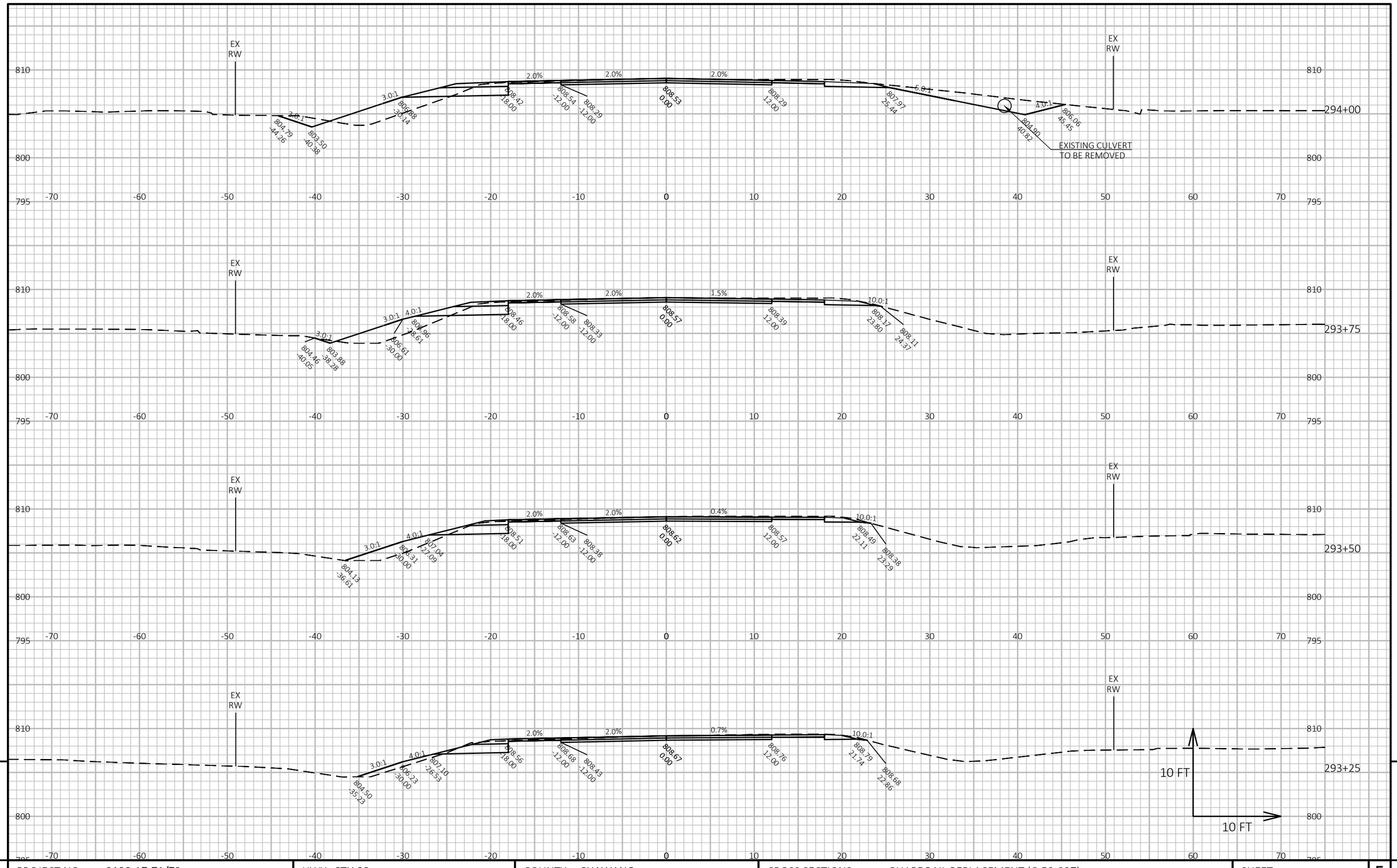
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 287	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090221-xs

PLOT DATE : 5/16/2025 11:29 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

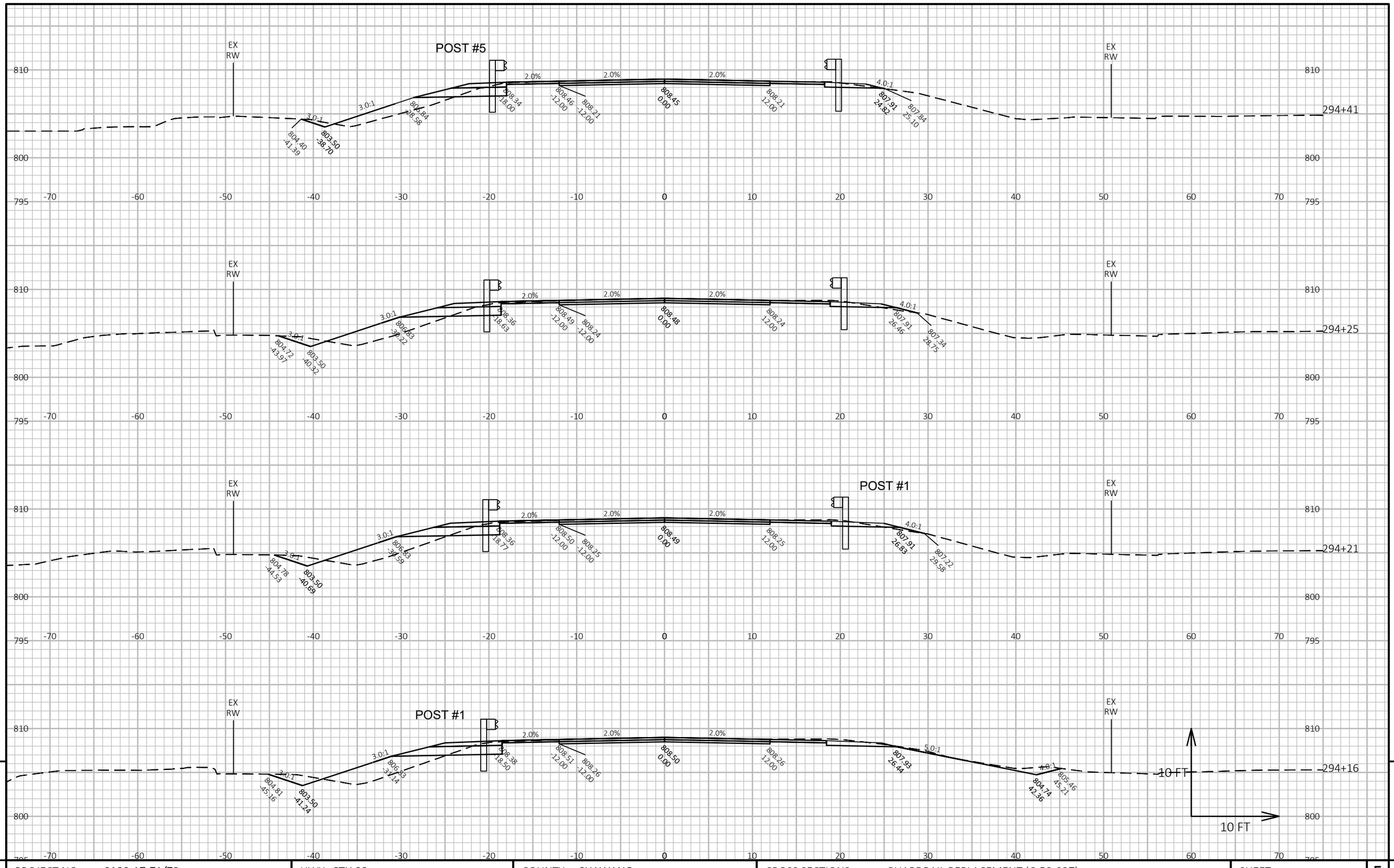


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-027)	SHEET 288 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090222-xs

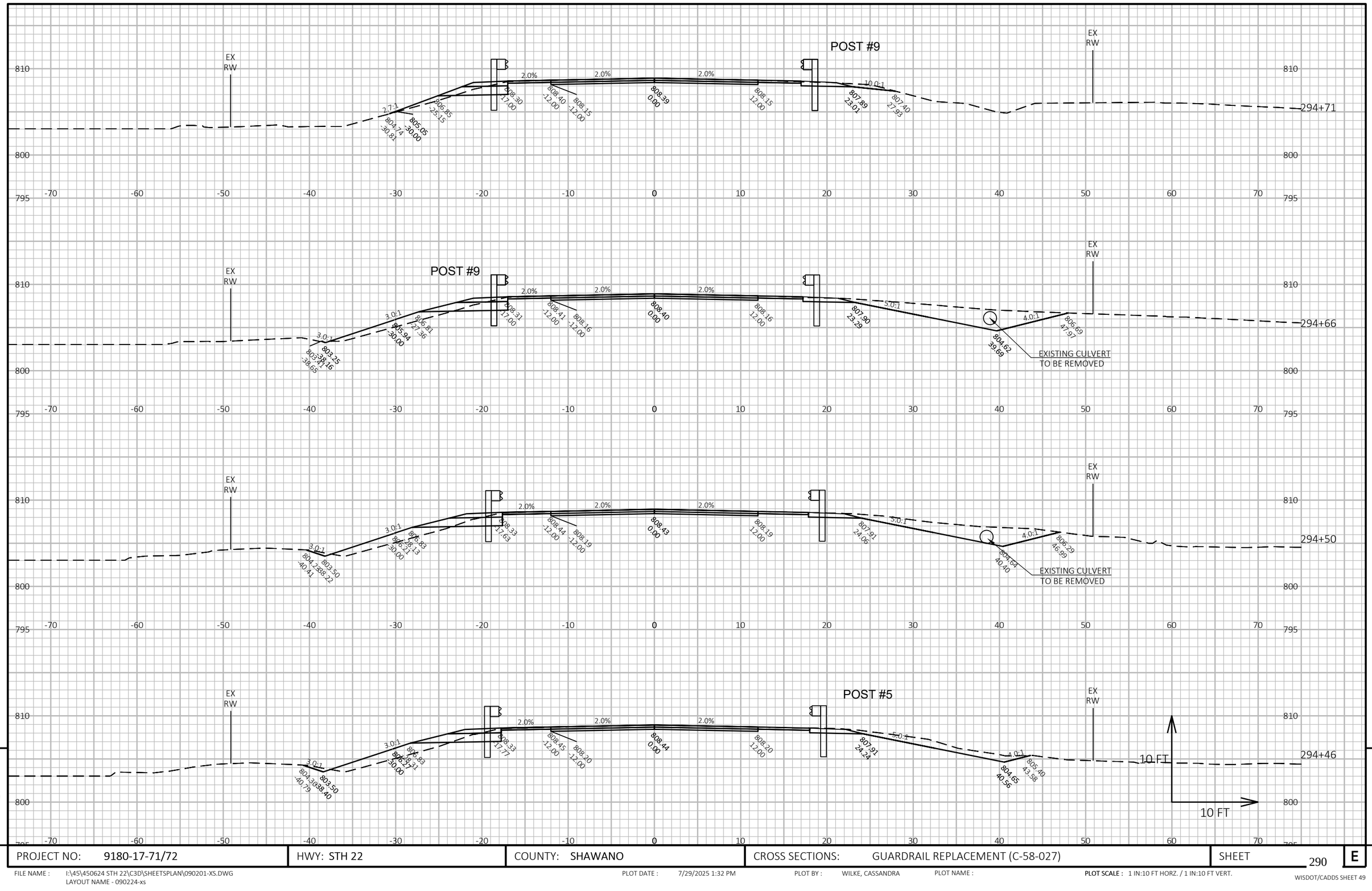
PLOT DATE : 7/29/2025 1:32 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-027)	SHEET 289 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090223-xs
PLOT DATE : 7/29/2025 1:32 PM
PLOT BY : WILKE, CASSANDRA
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



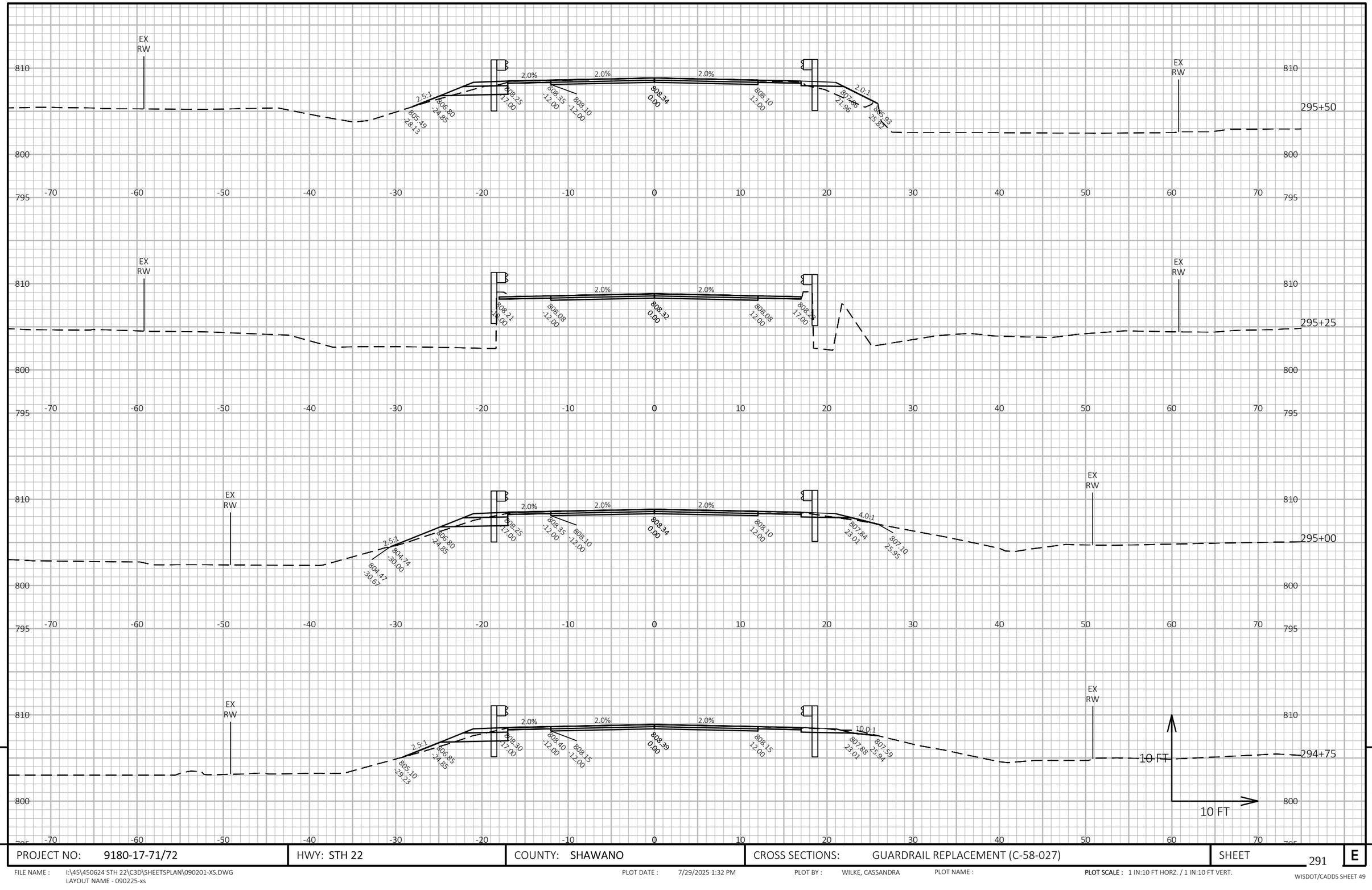
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-027)	SHEET 290	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090224-xs

PLOT DATE : 7/29/2025 1:32 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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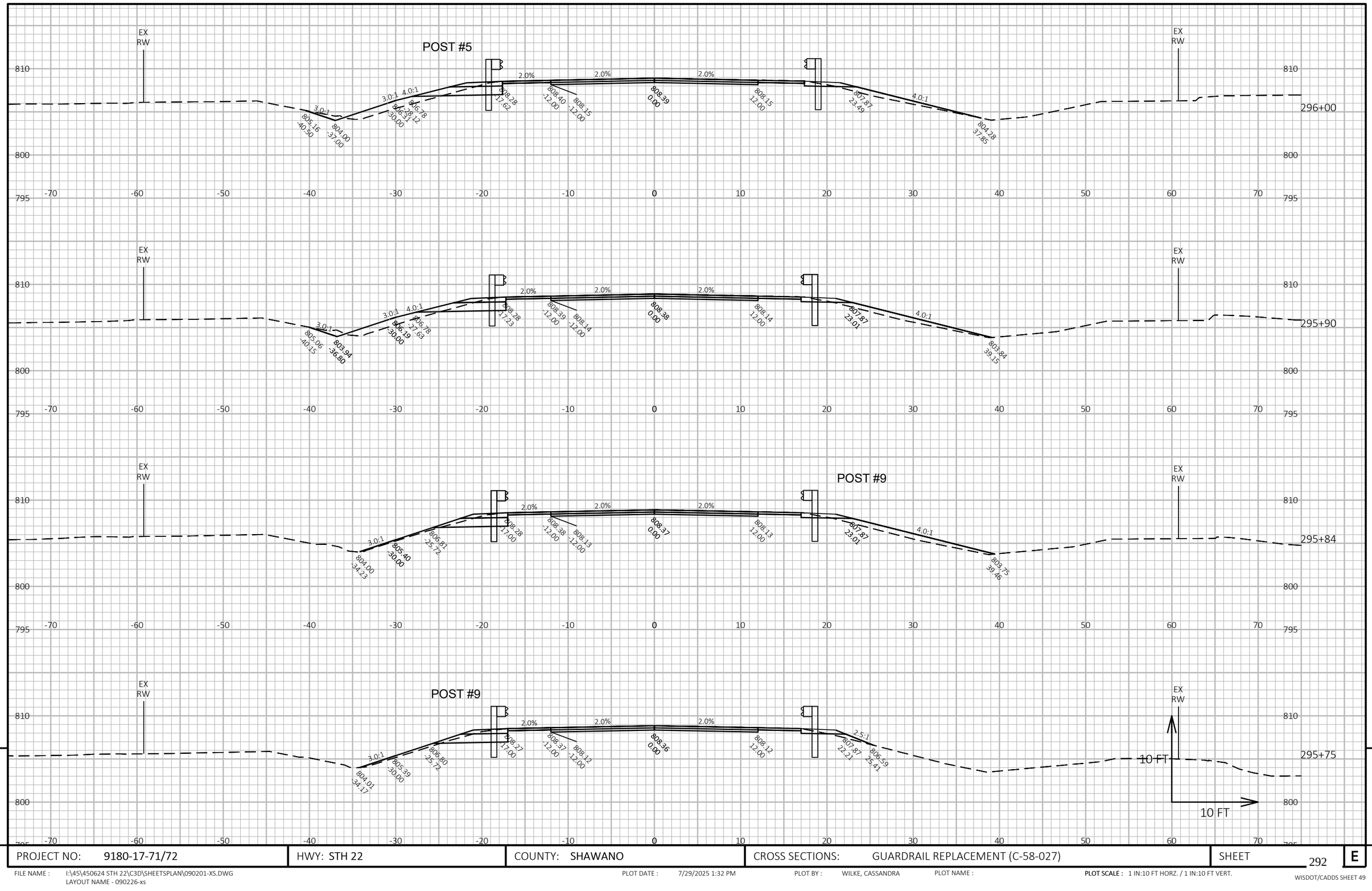
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-027)	SHEET 291	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090225-xs

PLOT DATE : 7/29/2025 1:32 PM PLOT BY : WILKE, CASSANDRA PLOT NAME :

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

WISDOT/CADDS SHEET 49



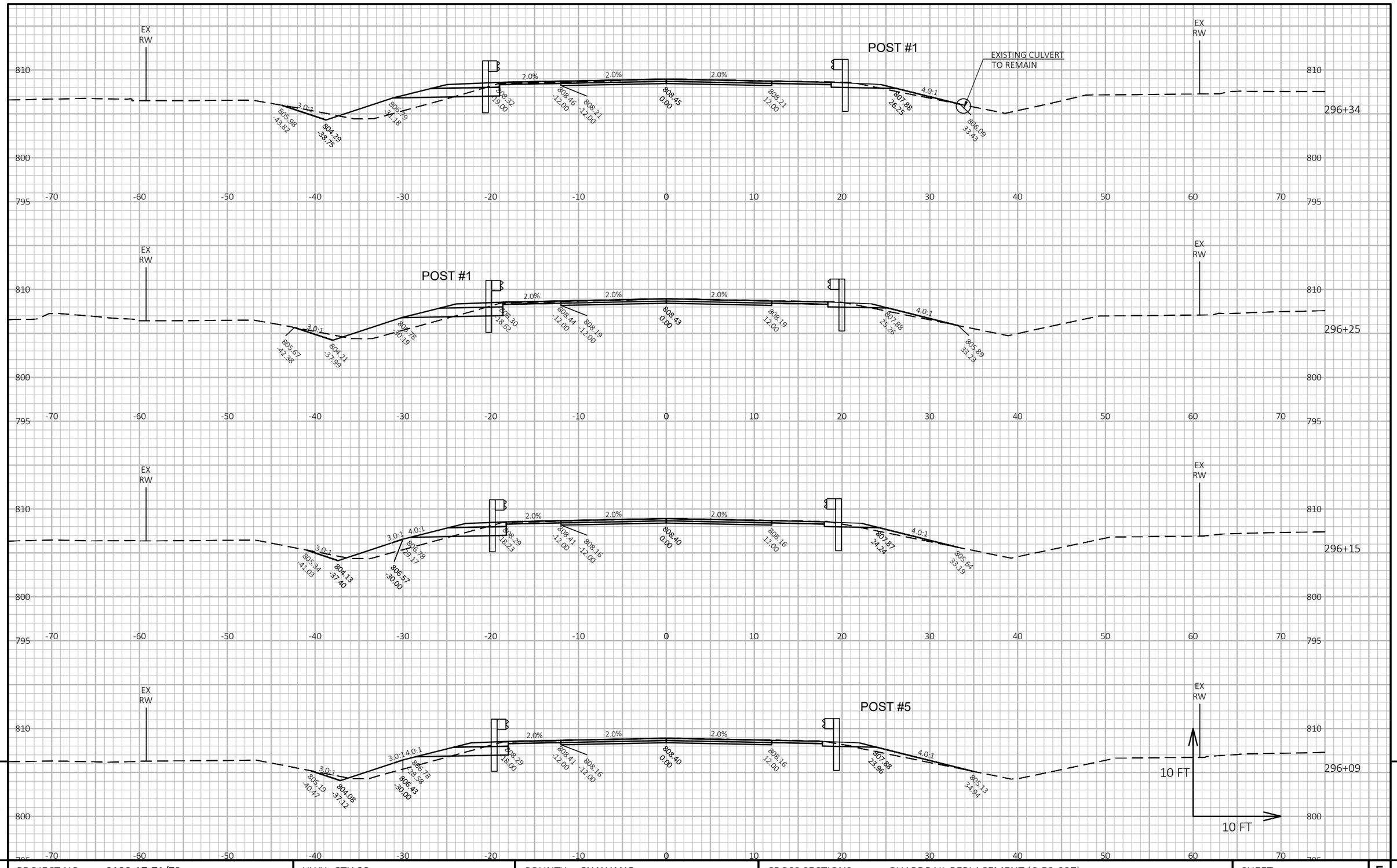
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-027)	SHEET 292	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090226-xs

PLOT DATE : 7/29/2025 1:32 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



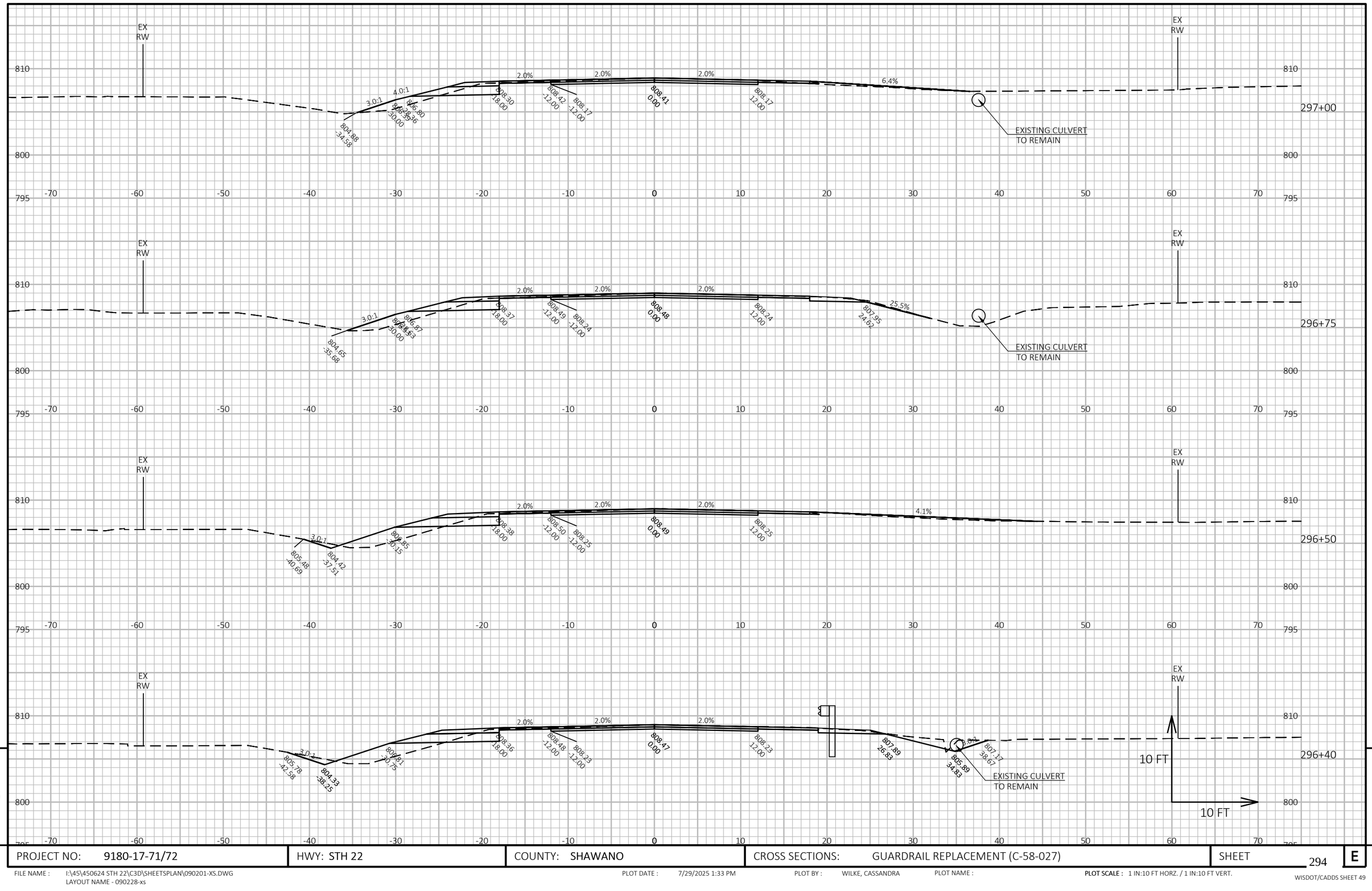
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-027)	SHEET 293	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090227-xs

PLOT DATE : 7/29/2025 1:32 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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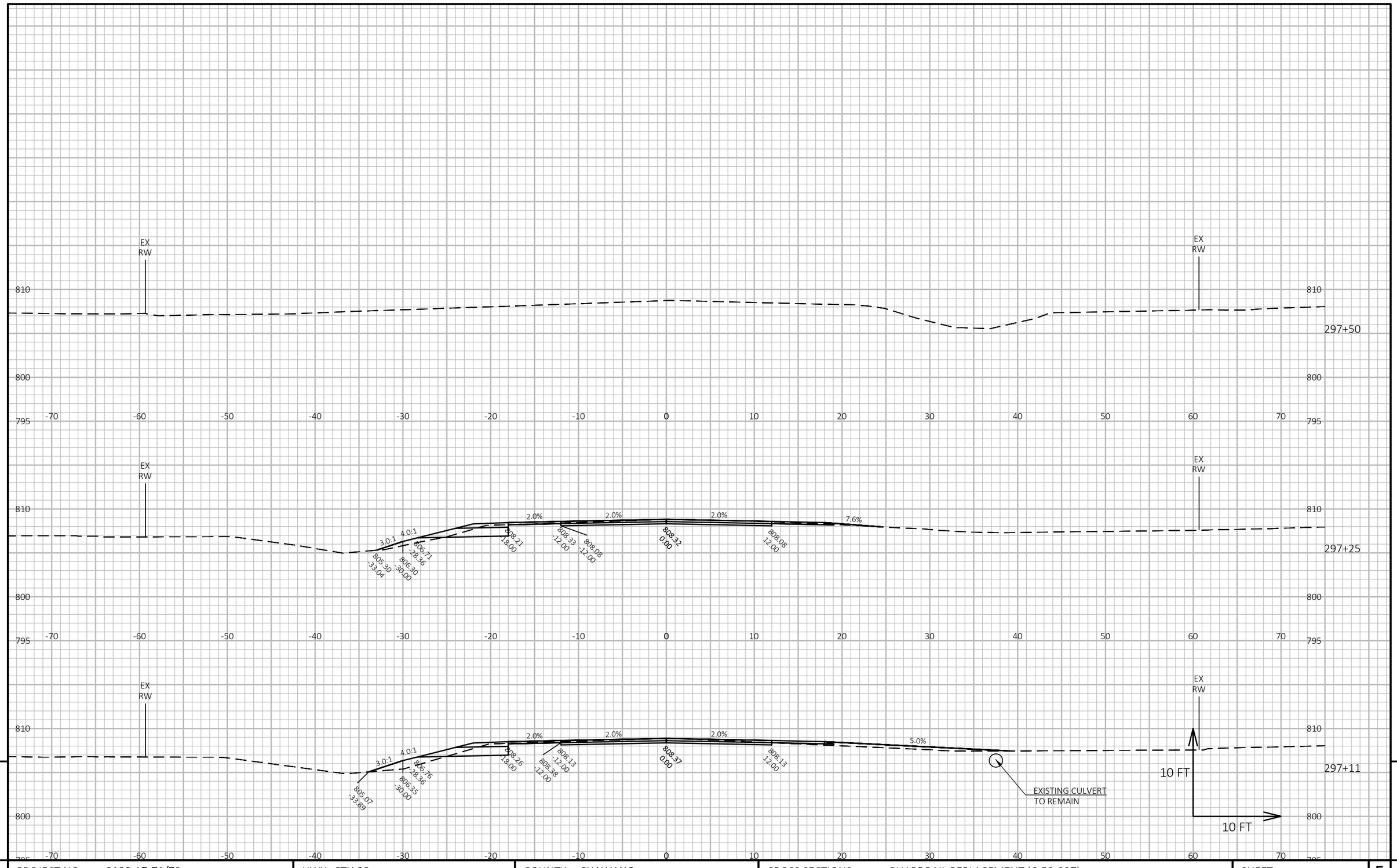
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-027)	SHEET 294	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090228-xs

PLOT DATE : 7/29/2025 1:33 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-58-027)	SHEET 295	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090229-xs

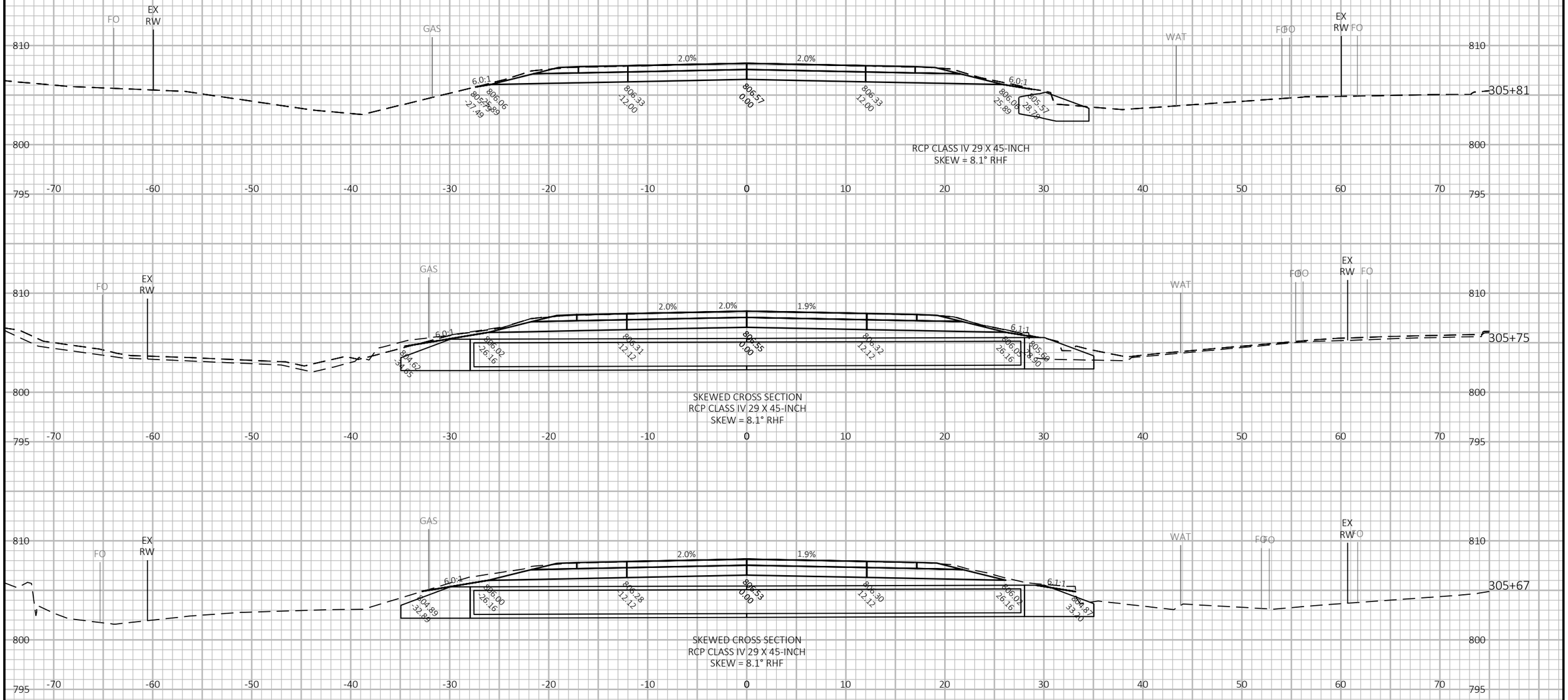
PLOT DATE : 7/29/2025 1:33 PM

PLOT BY : WILKE, CASSANDRA

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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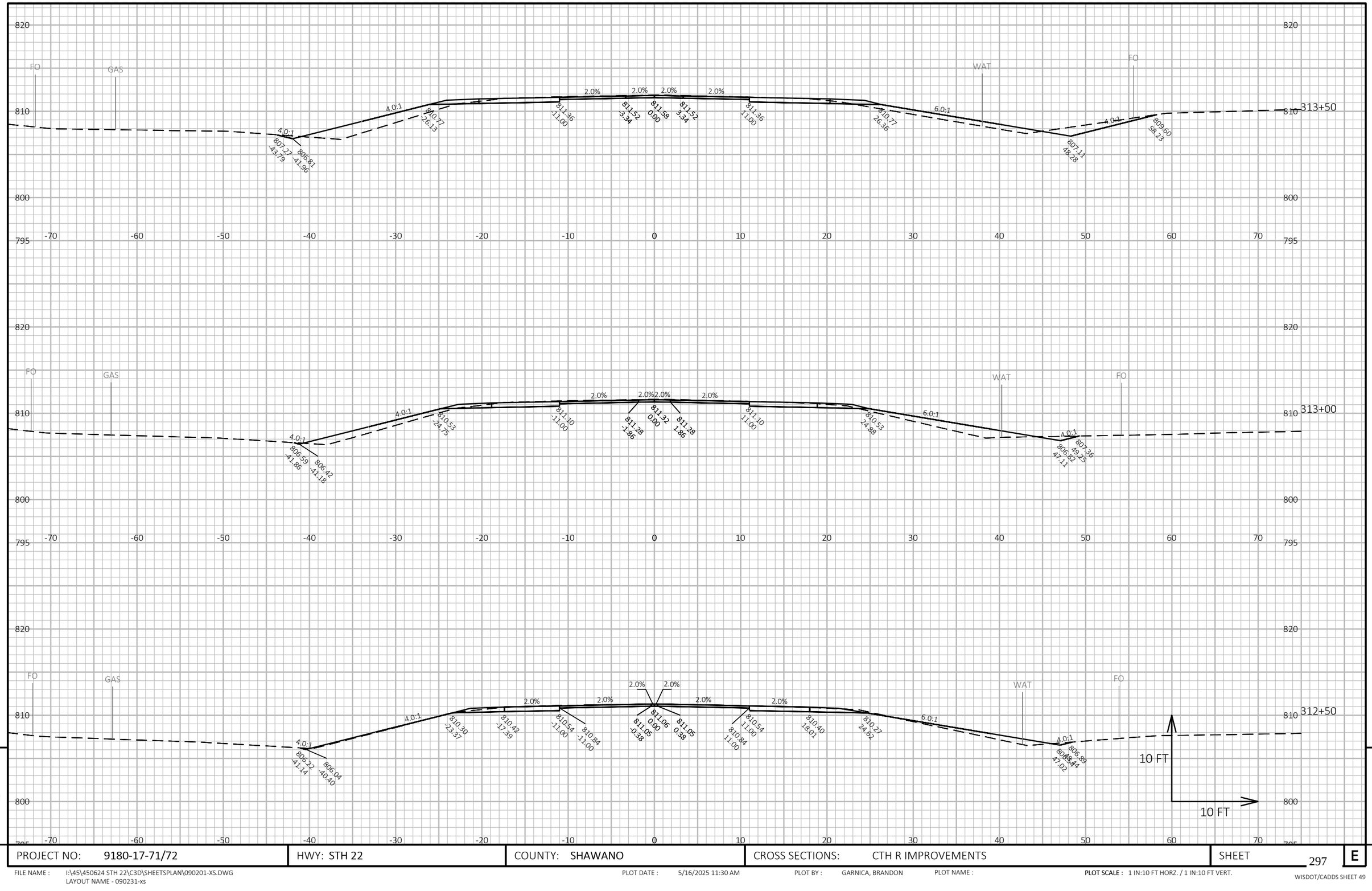
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 296	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090230-xs

PLOT DATE : 5/16/2025 11:30 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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



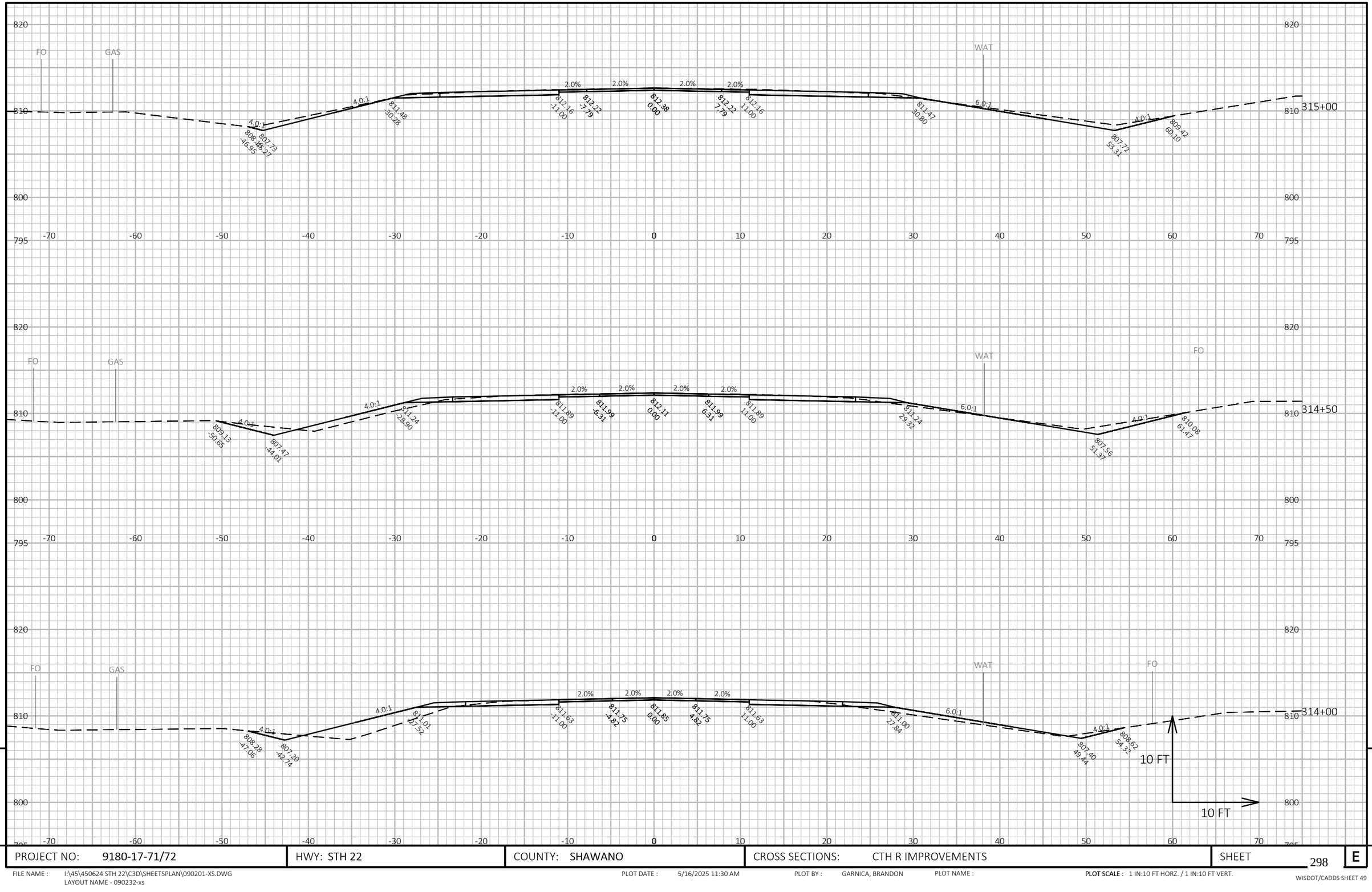
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CTH R IMPROVEMENTS	SHEET 297 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090231-xs

PLOT DATE : 5/16/2025 11:30 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

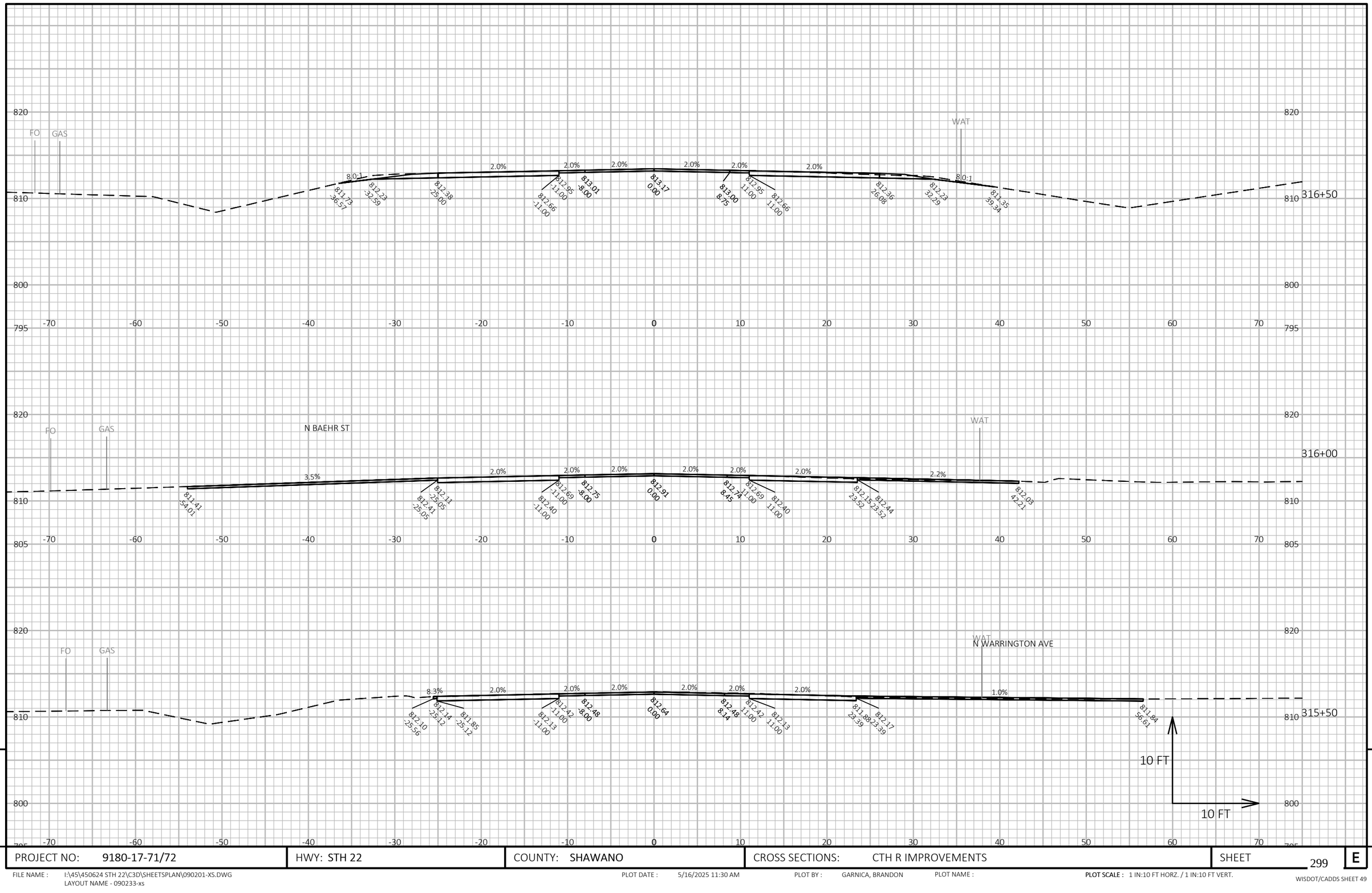
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CTH R IMPROVEMENTS	SHEET 298	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090232-xs

PLOT DATE : 5/16/2025 11:30 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

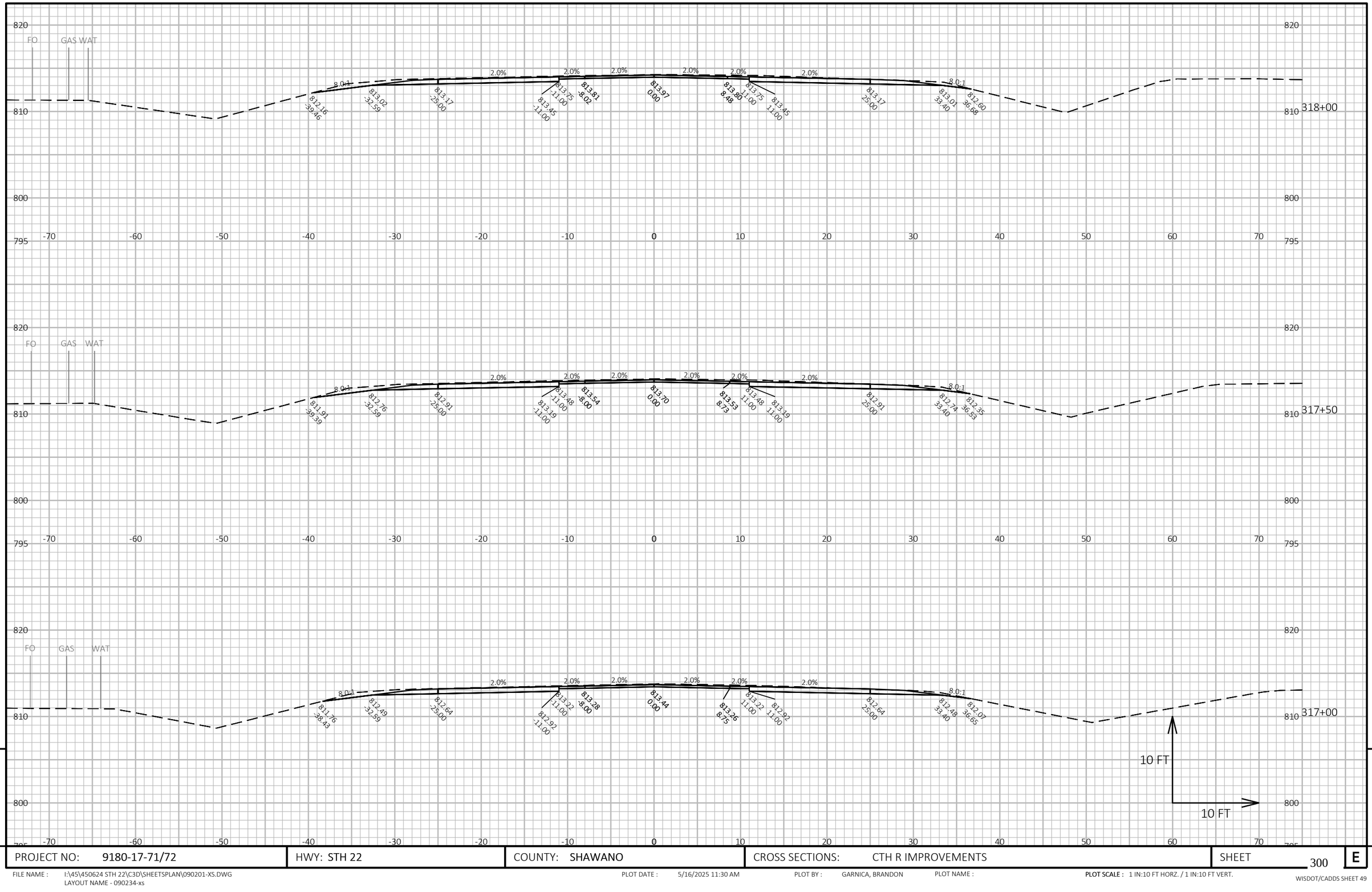
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CTH R IMPROVEMENTS	SHEET 299	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090233-xs

PLOT DATE : 5/16/2025 11:30 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



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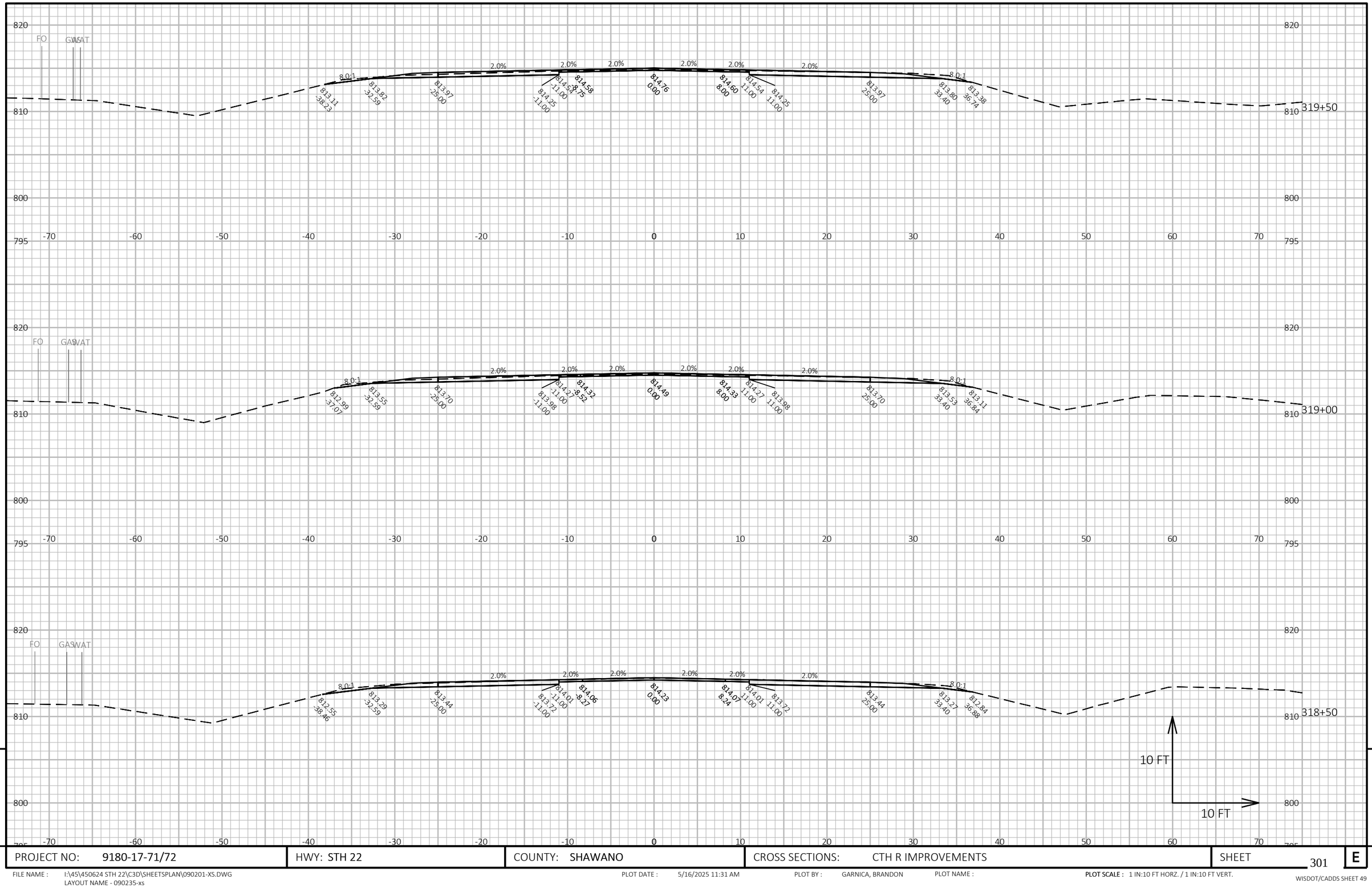
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CTH R IMPROVEMENTS	SHEET 300	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090234-xs

PLOT DATE : 5/16/2025 11:30 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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



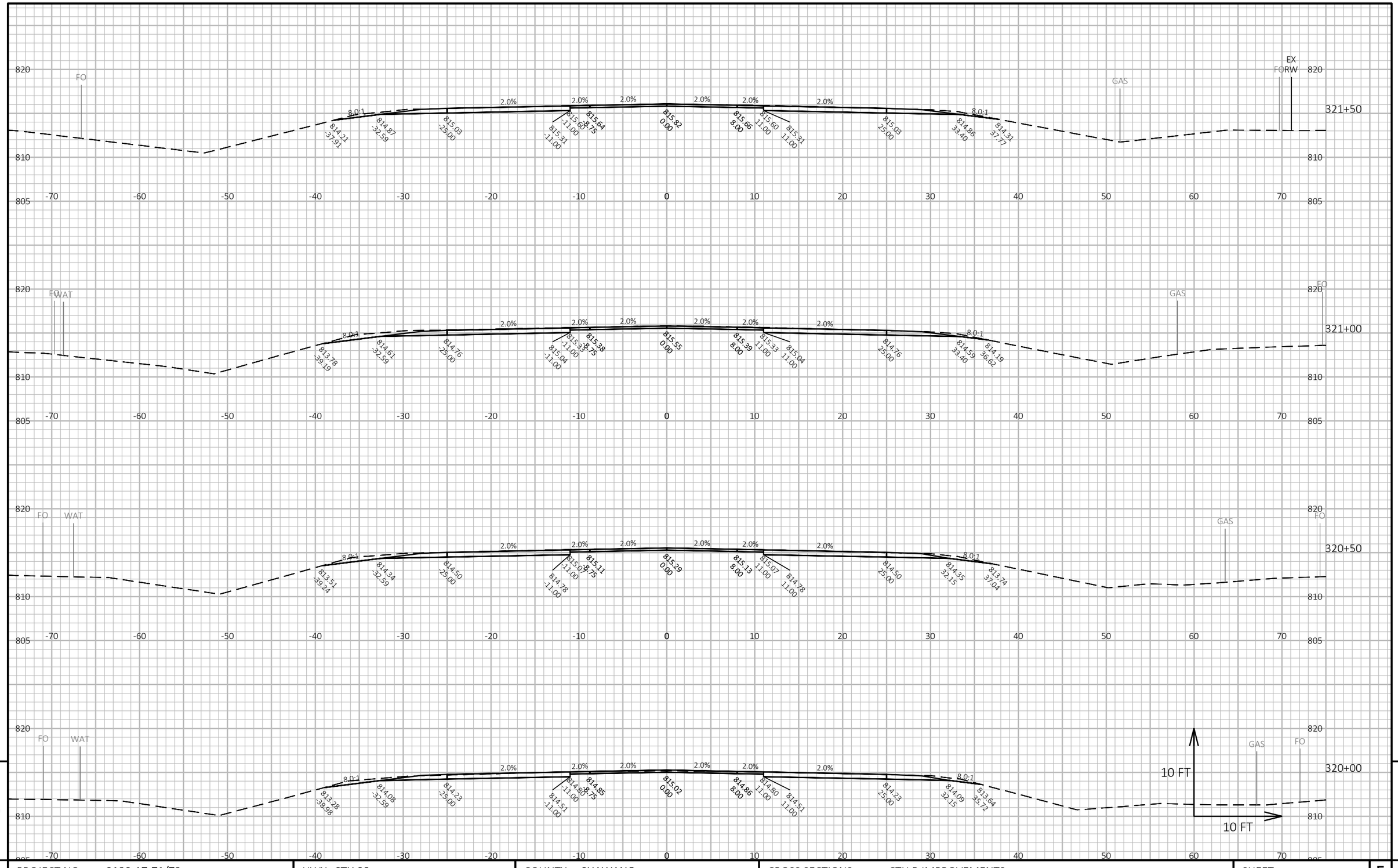
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CTH R IMPROVEMENTS	SHEET 301	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090235-xs

PLOT DATE : 5/16/2025 11:31 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



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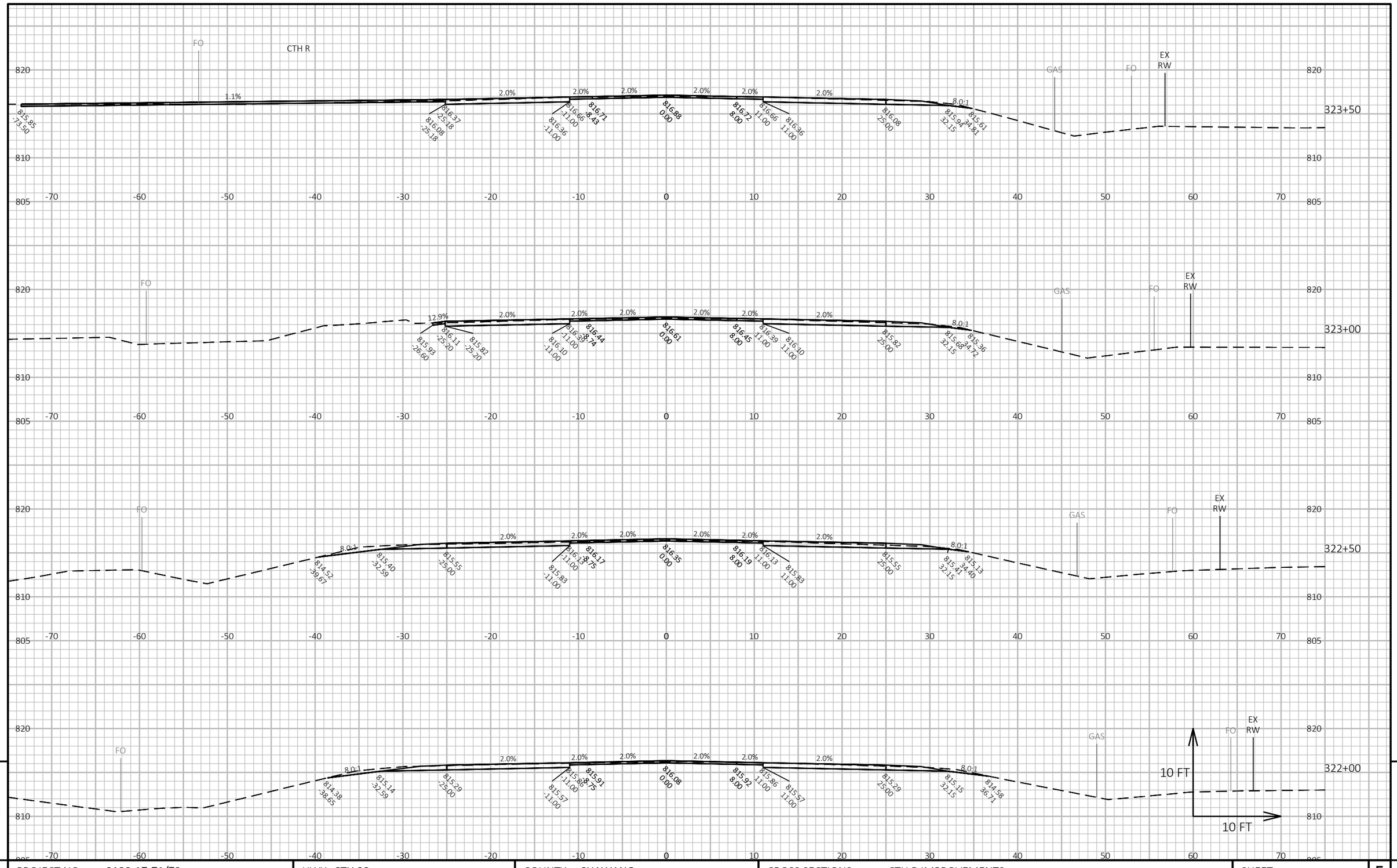
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CTH R IMPROVEMENTS	SHEET 302	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090236-xs

PLOT DATE : 5/16/2025 11:31 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49

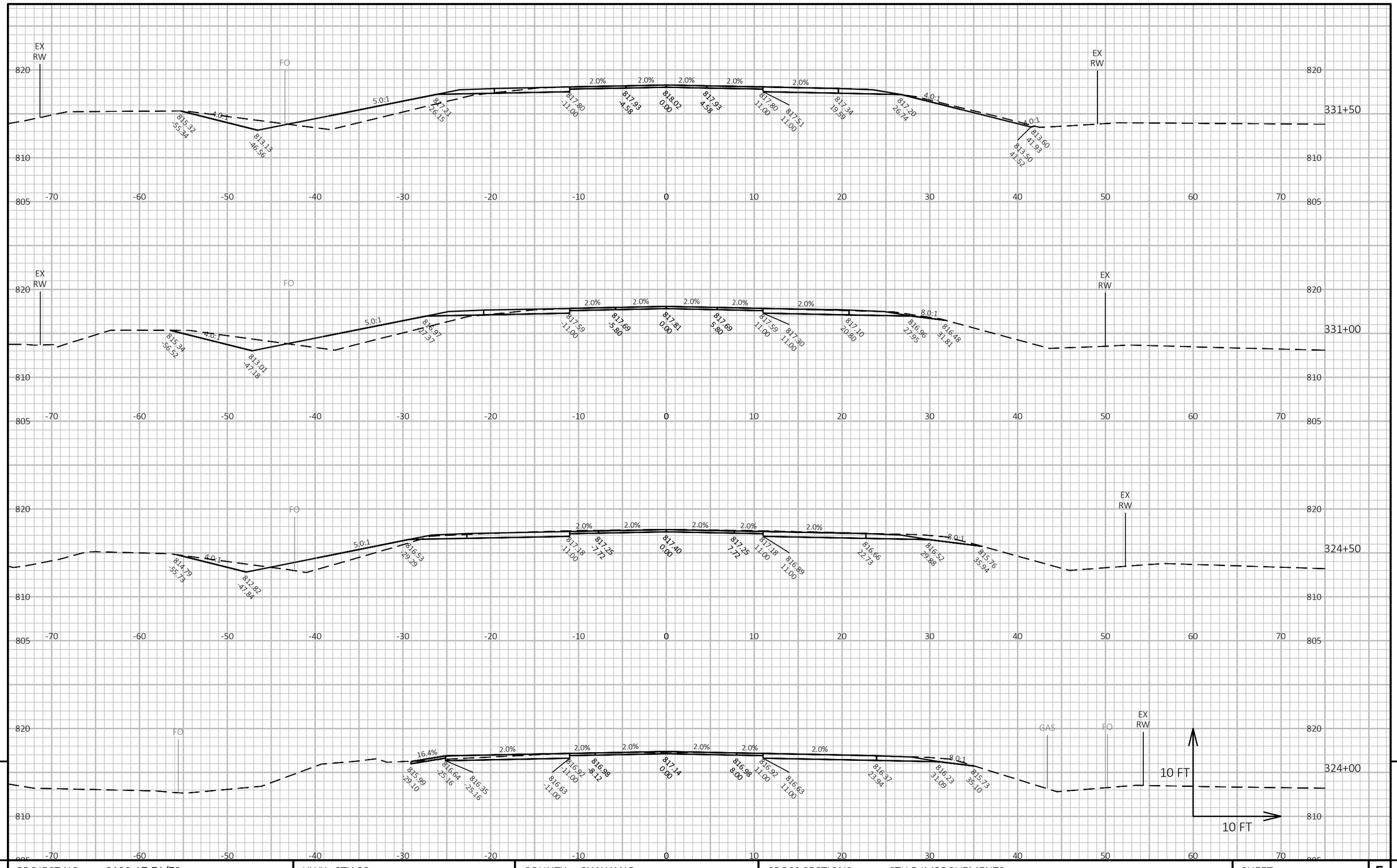


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CTH R IMPROVEMENTS	SHEET 303	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090237-xs

PLOT DATE : 5/16/2025 11:31 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

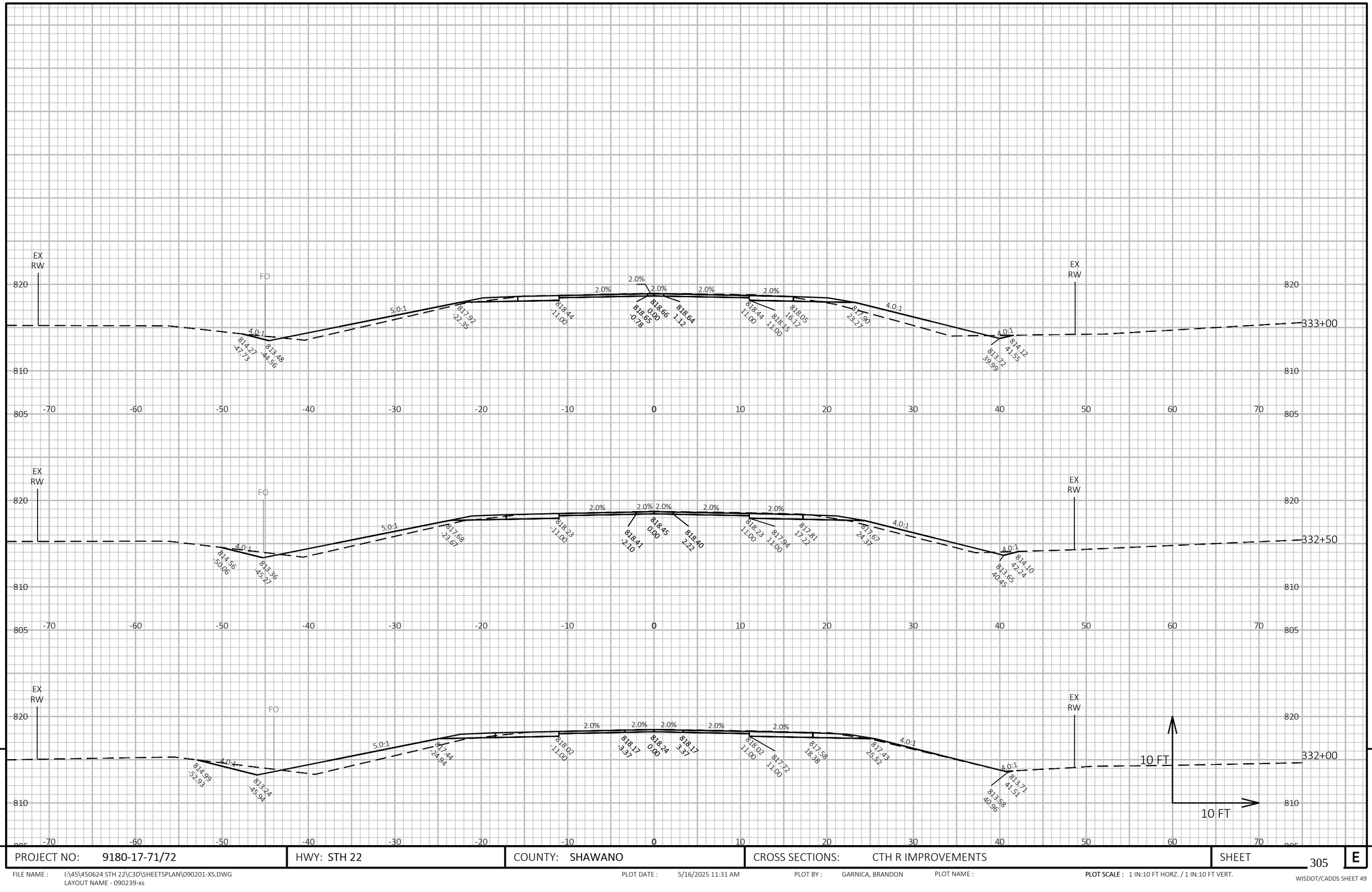
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CTH R IMPROVEMENTS	SHEET 304	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090238-xs

PLOT DATE : 5/16/2025 11:31 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CTH R IMPROVEMENTS	SHEET 305	E

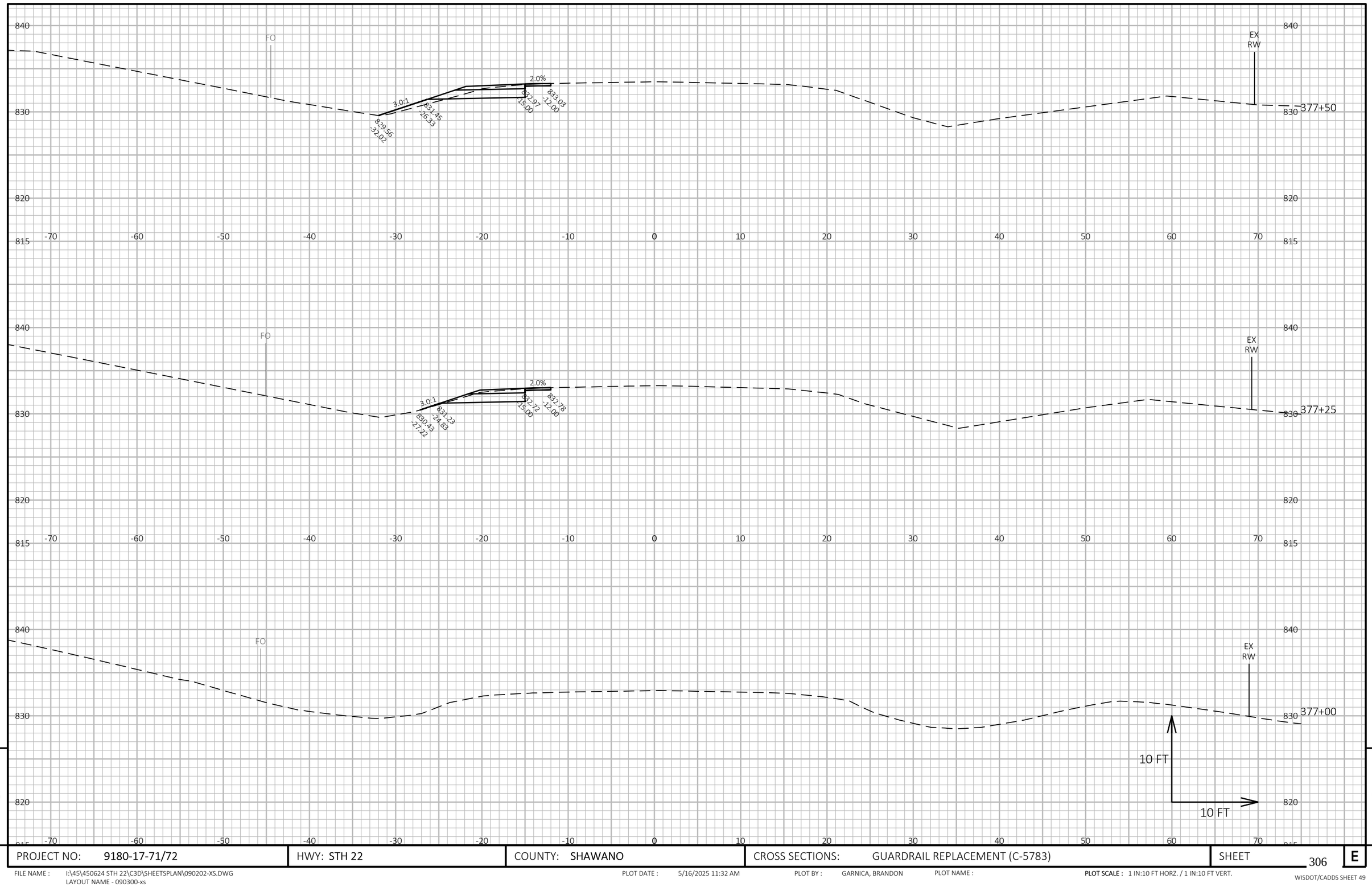
FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090239-xs

PLOT DATE : 5/16/2025 11:31 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49

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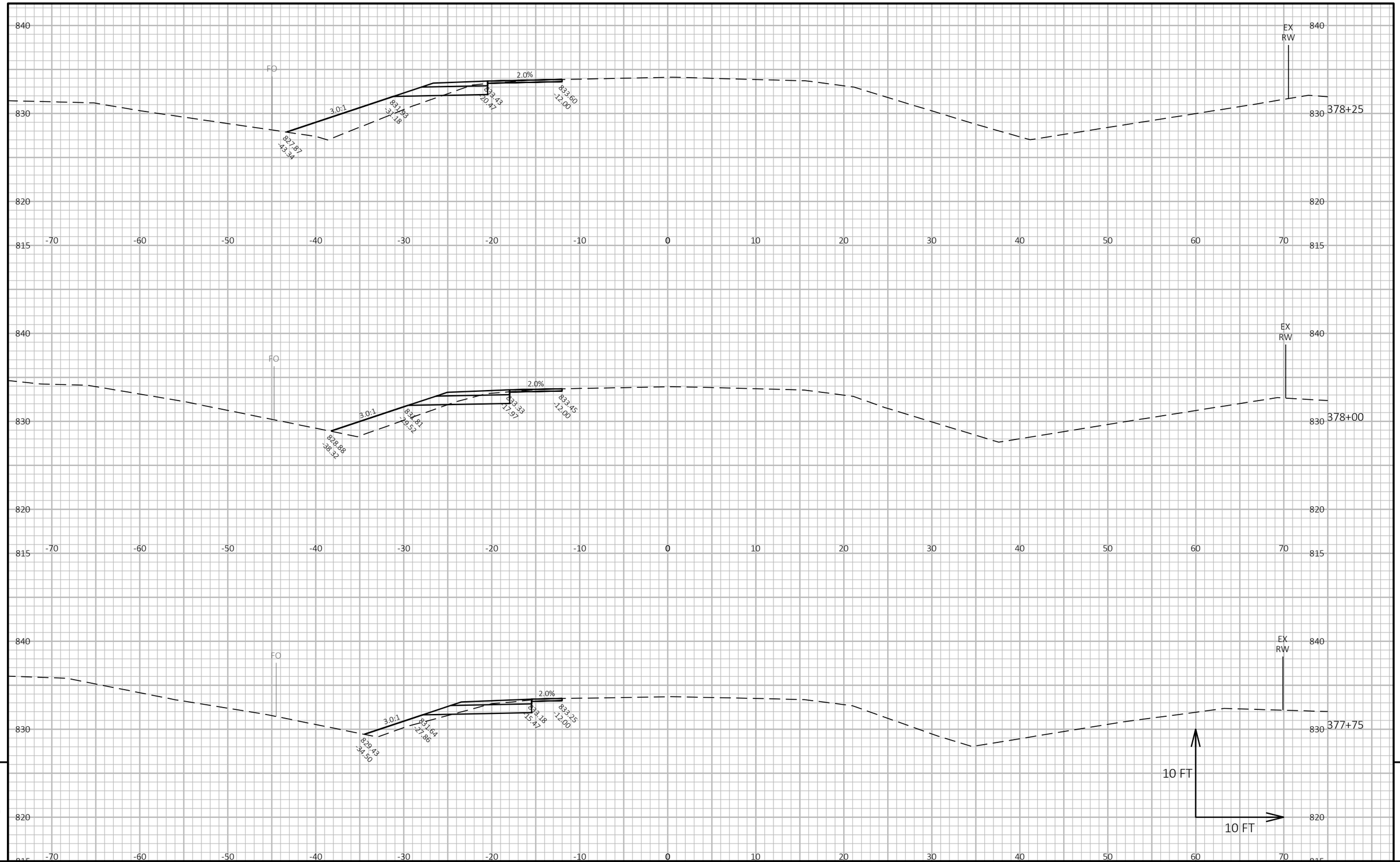
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 306	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090300-xs

PLOT DATE : 5/16/2025 11:32 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



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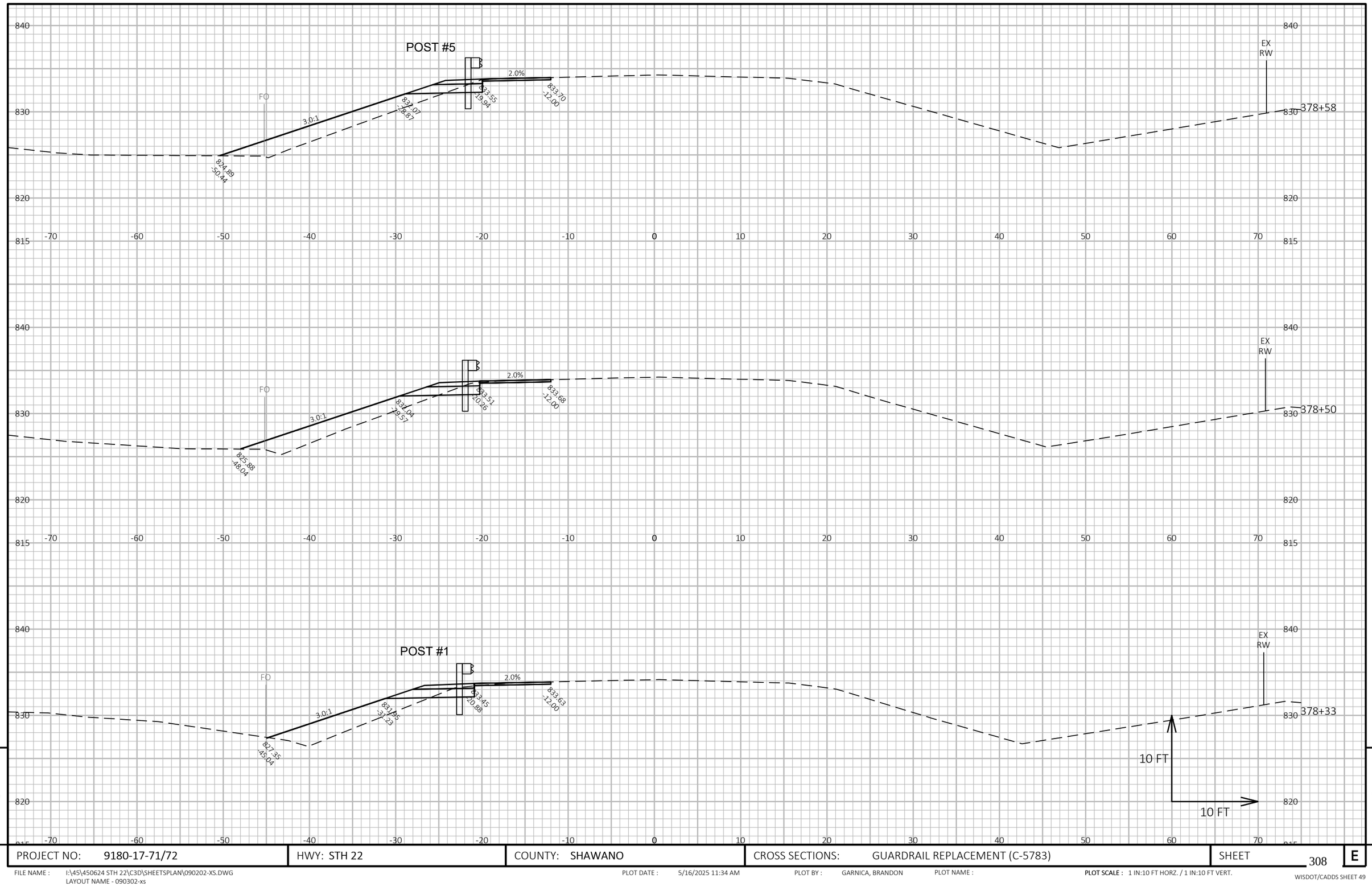
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 307	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090301-xs

PLOT DATE : 5/16/2025 11:33 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



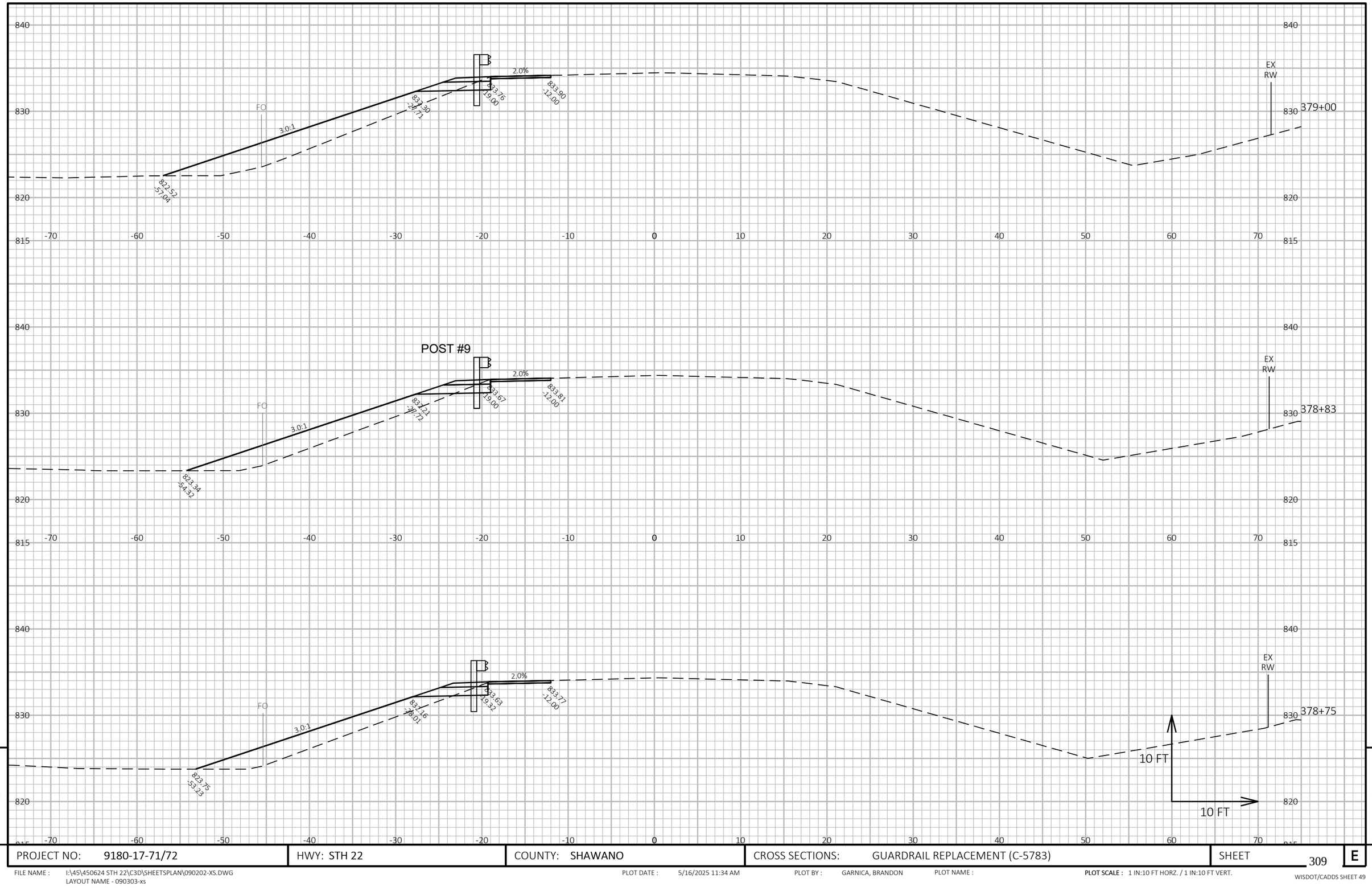
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 308 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090302-xs

PLOT DATE : 5/16/2025 11:34 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



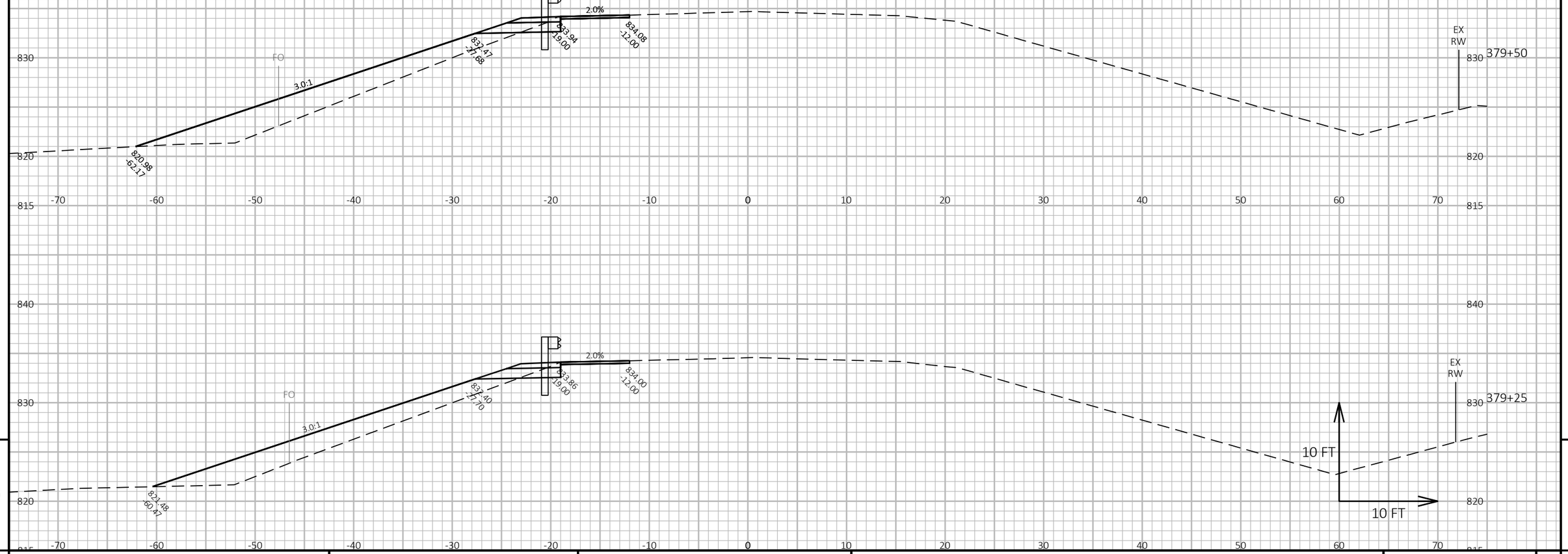
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 309	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090303-xs

PLOT DATE : 5/16/2025 11:34 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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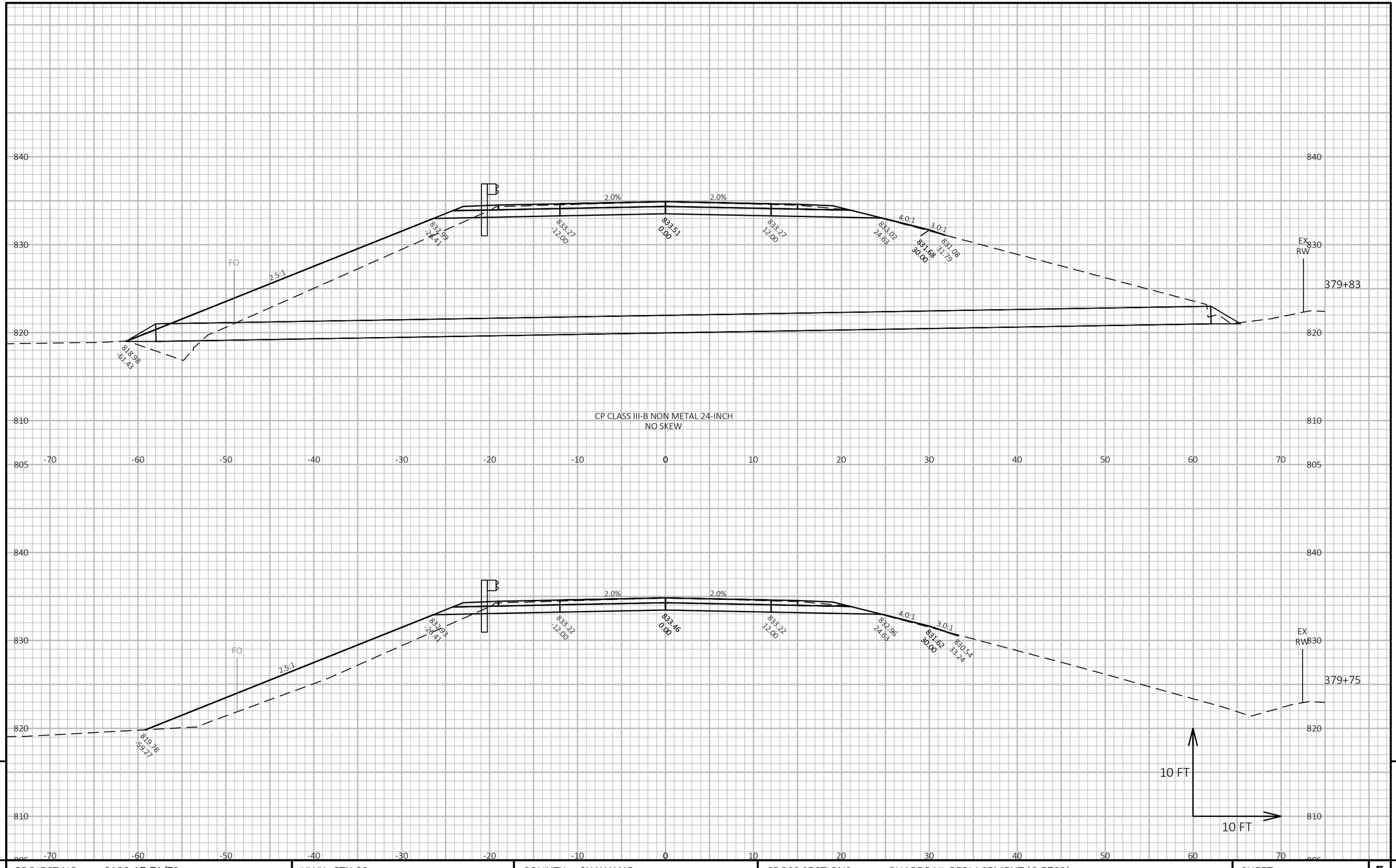
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 310	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090304xs

PLOT DATE : 5/16/2025 11:35 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

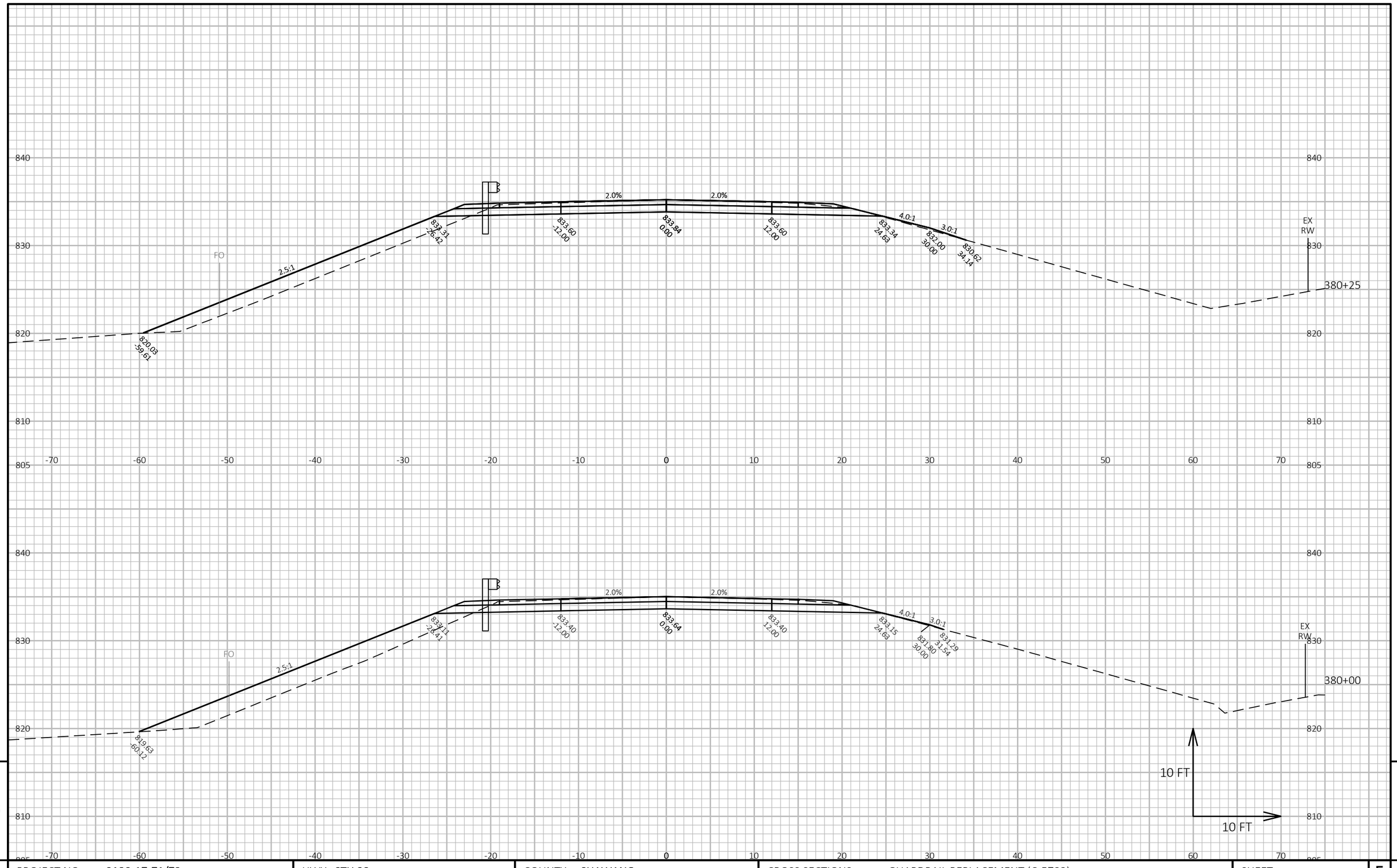
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 311	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090305-xs

PLOT DATE : 5/16/2025 11:35 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

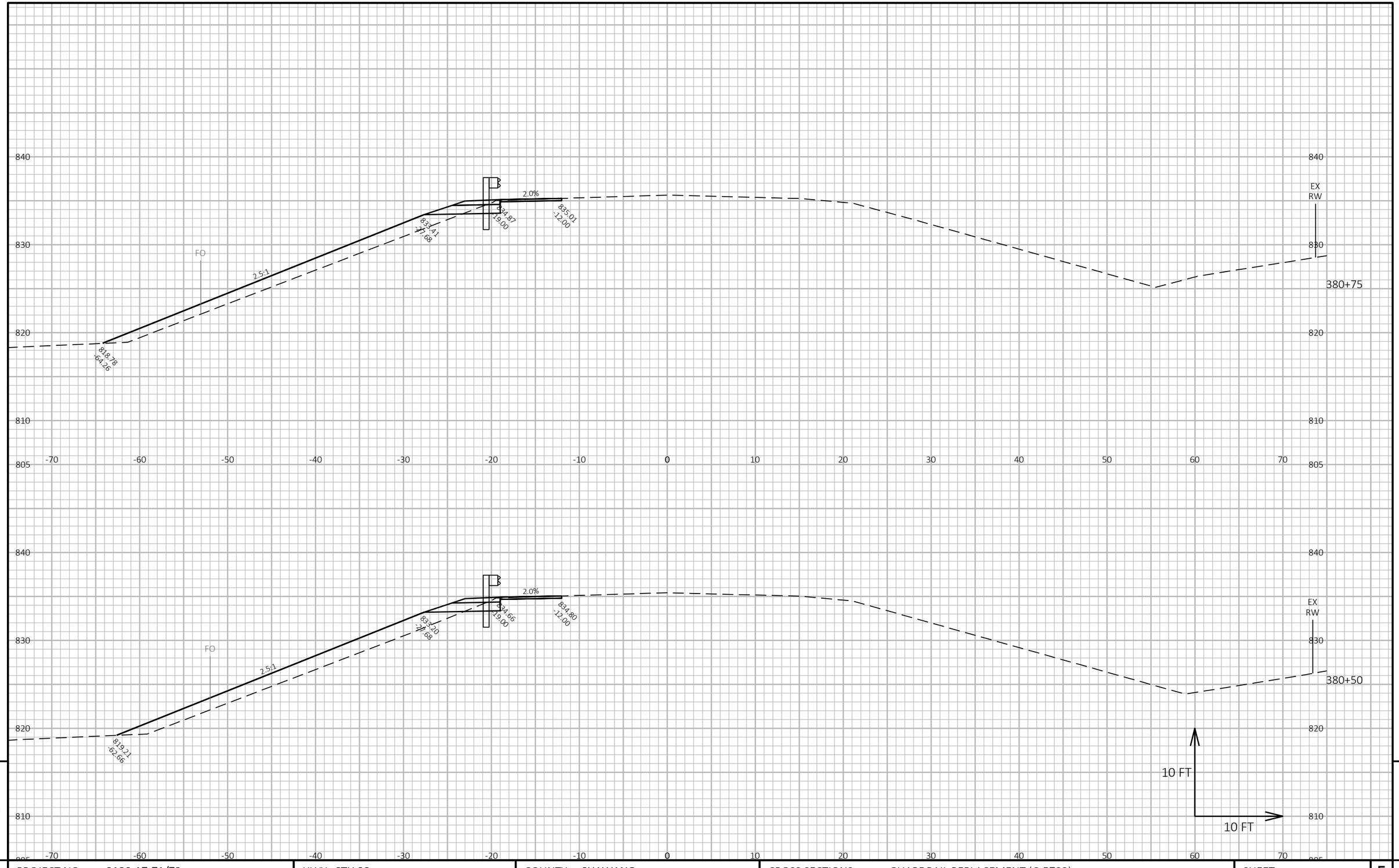
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 312	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090306-xs

PLOT DATE : 5/16/2025 11:36 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

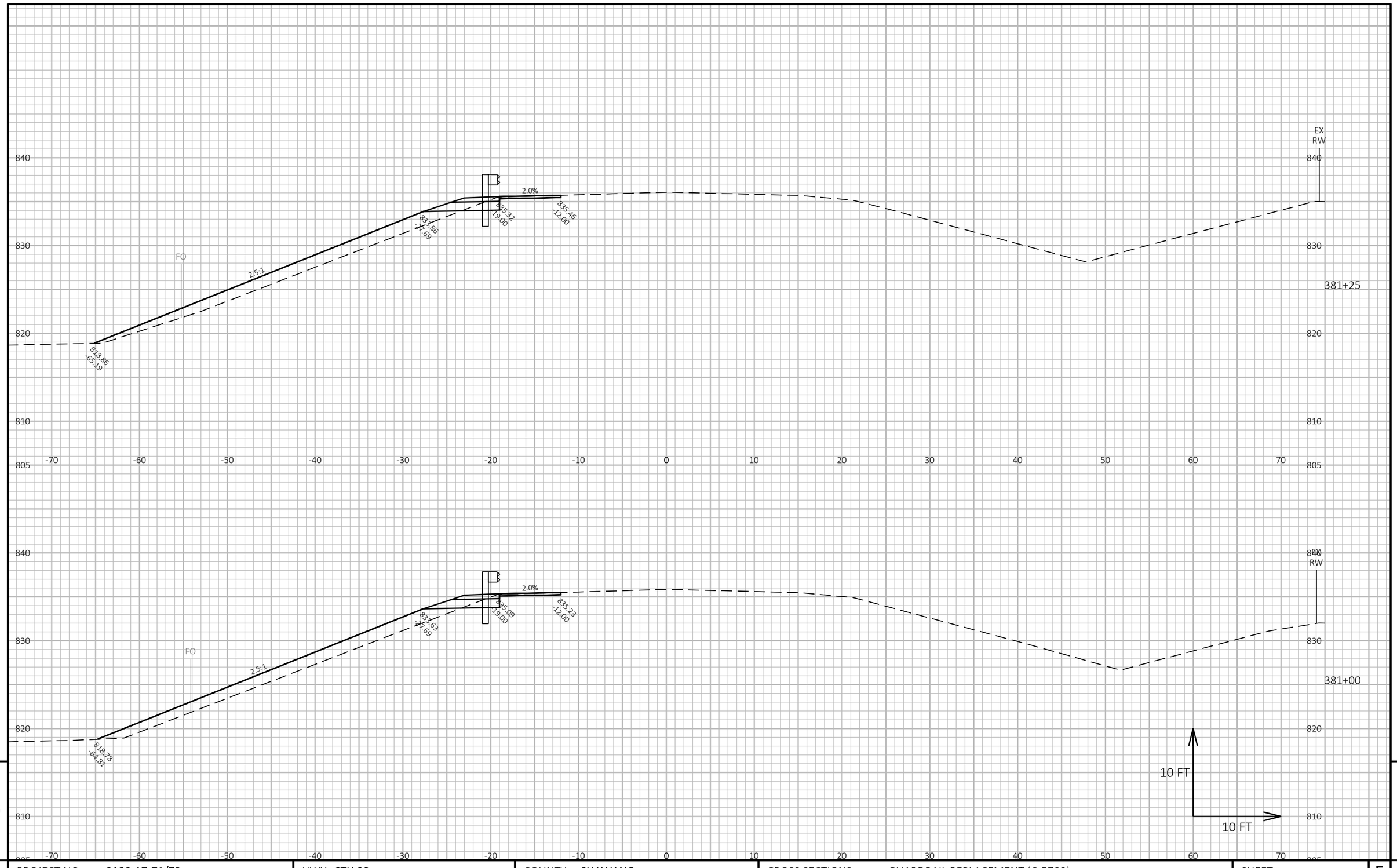


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 313	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090307-xs

PLOT DATE : 5/16/2025 11:36 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

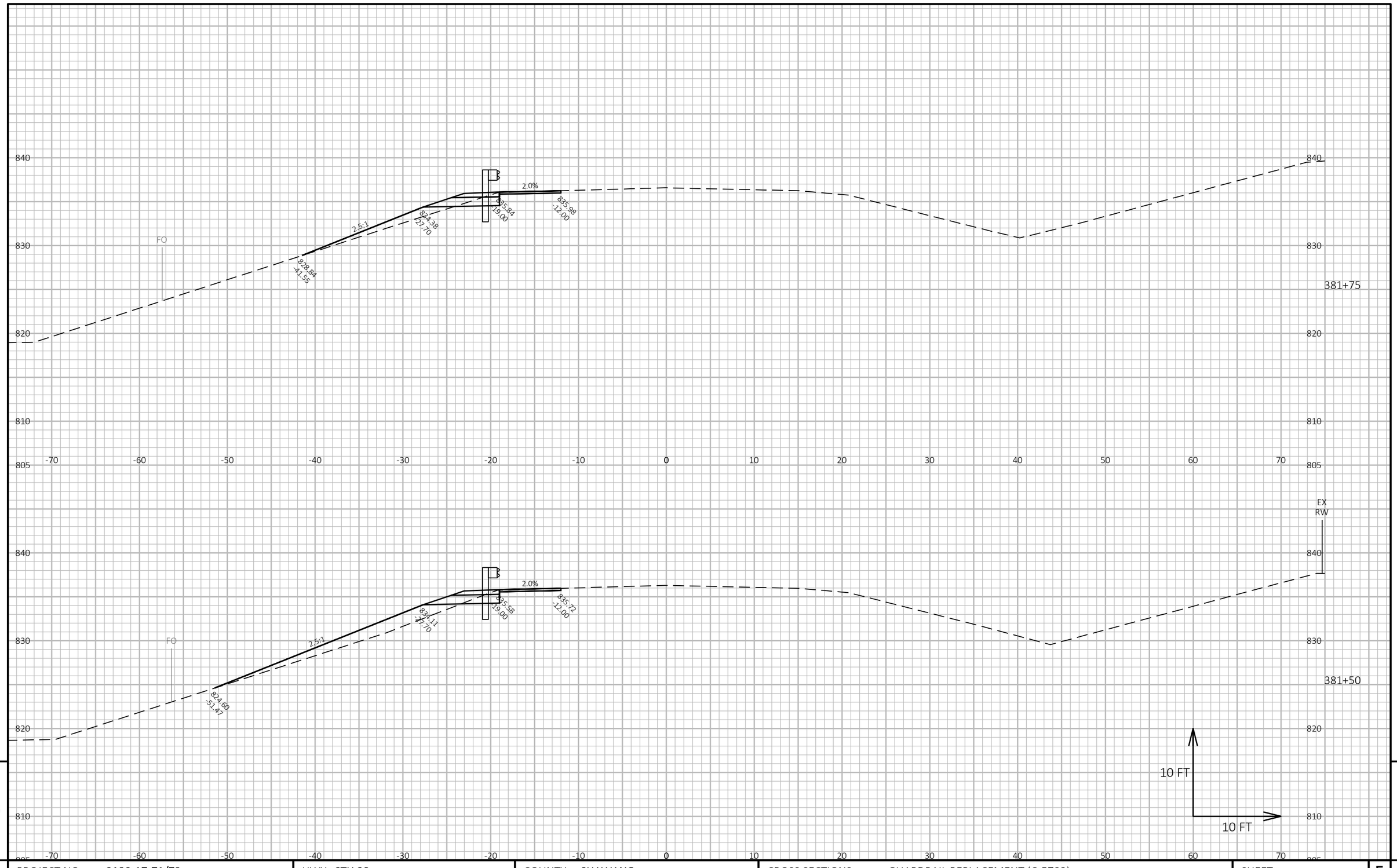


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 314	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090308-xs

PLOT DATE : 5/16/2025 11:37 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

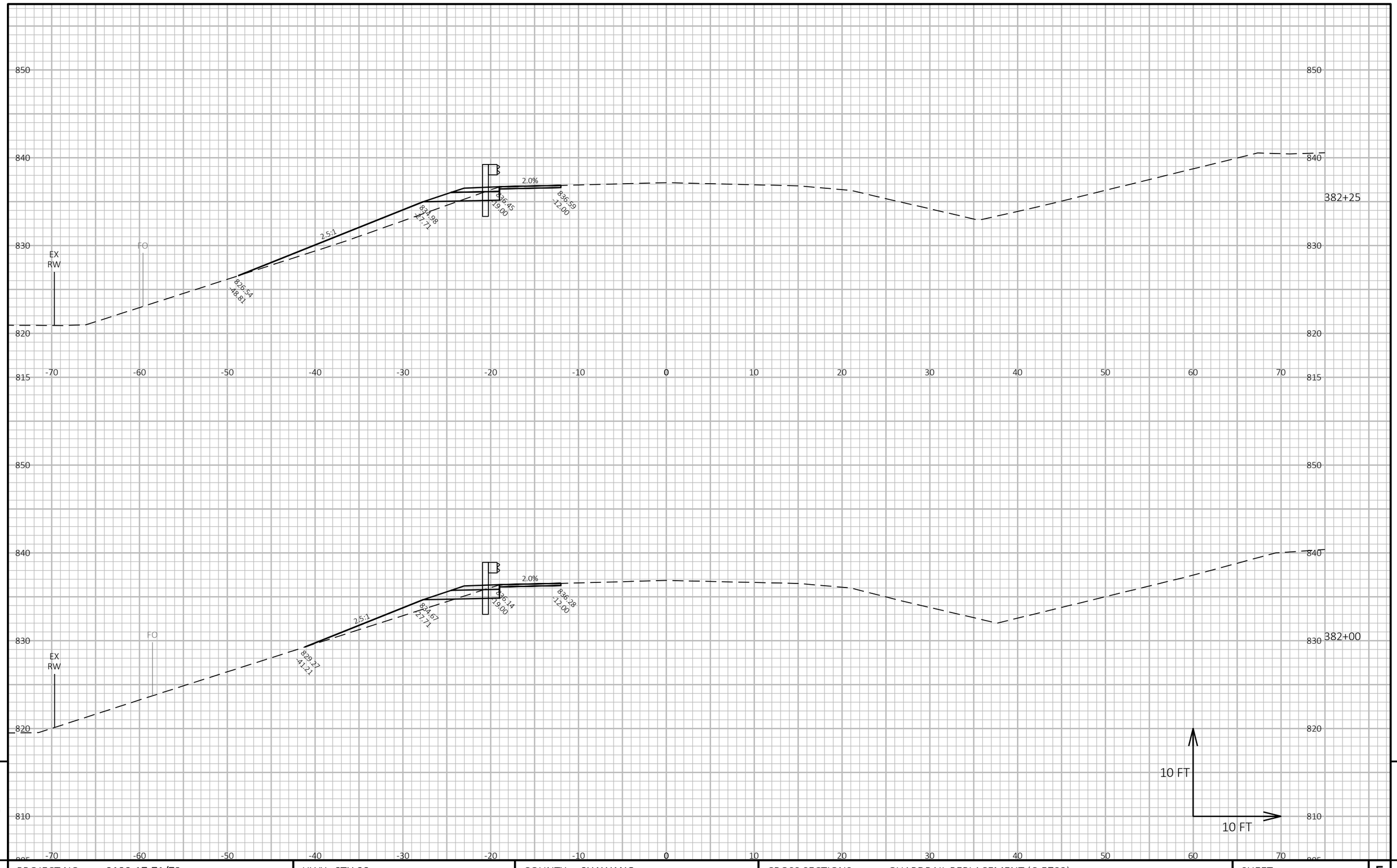
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 315	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090309-xs

PLOT DATE : 5/16/2025 11:38 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



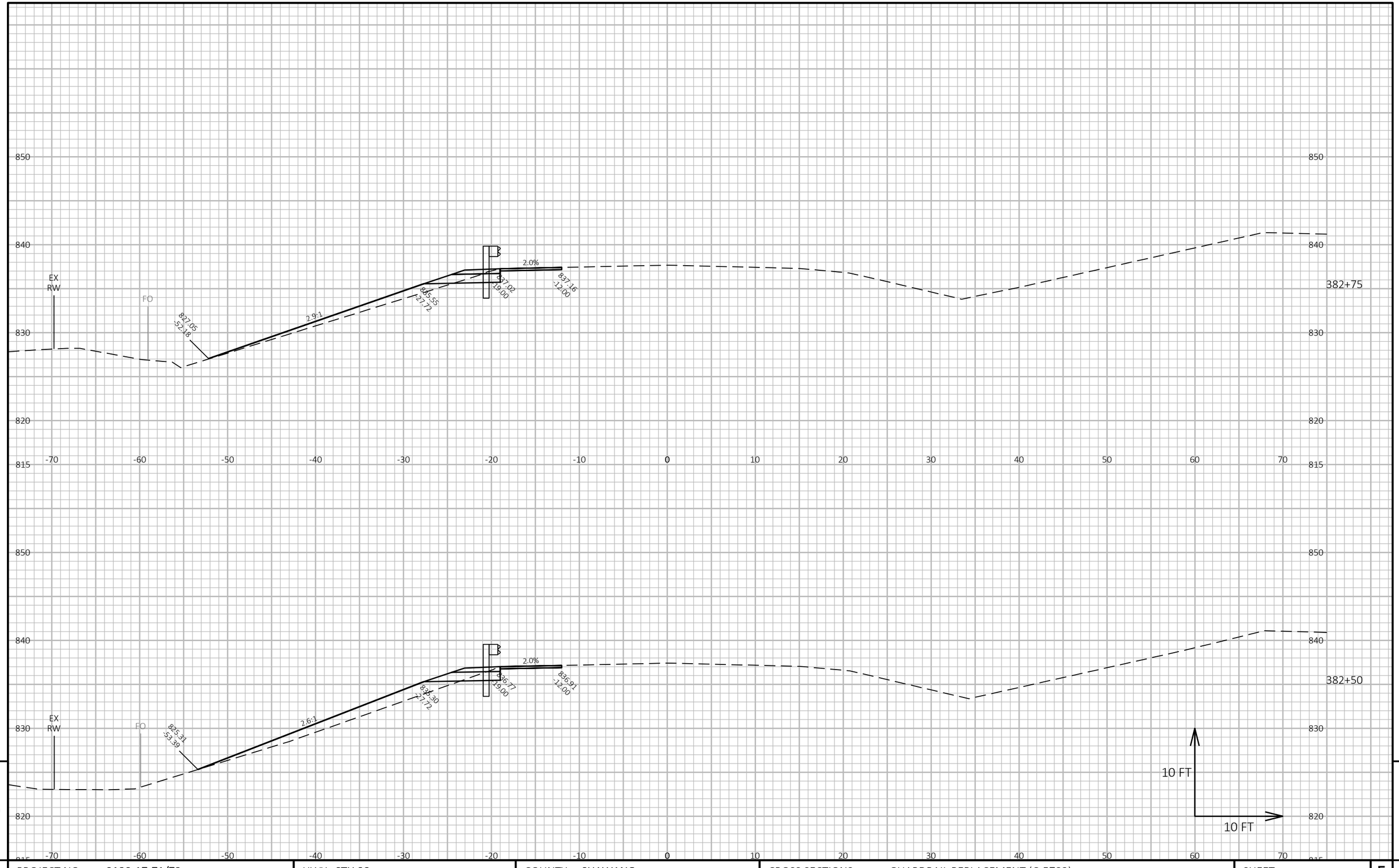
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 316	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090310-xs

PLOT DATE : 5/16/2025 11:38 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



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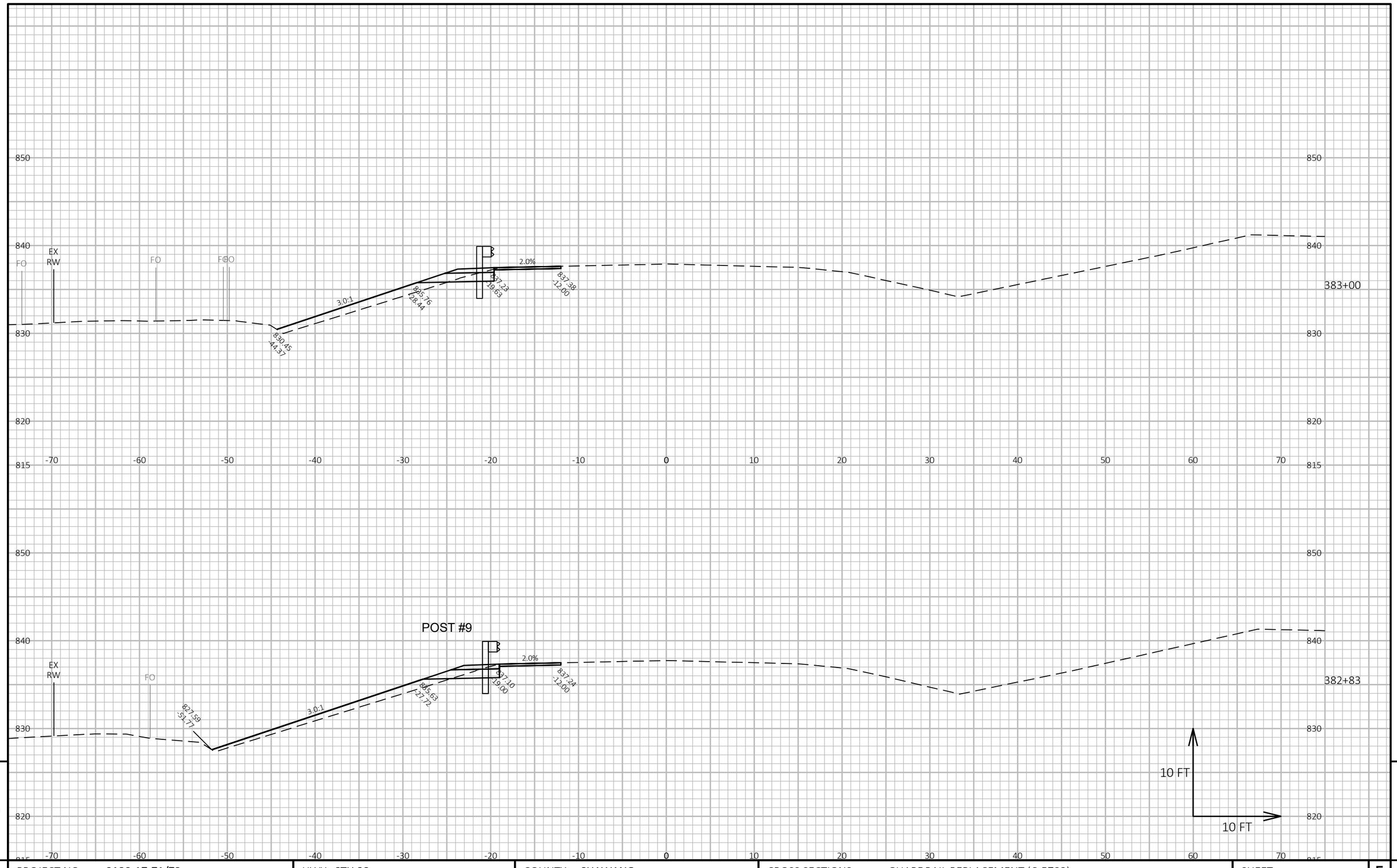
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 317	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090311-xs

PLOT DATE : 5/16/2025 11:39 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

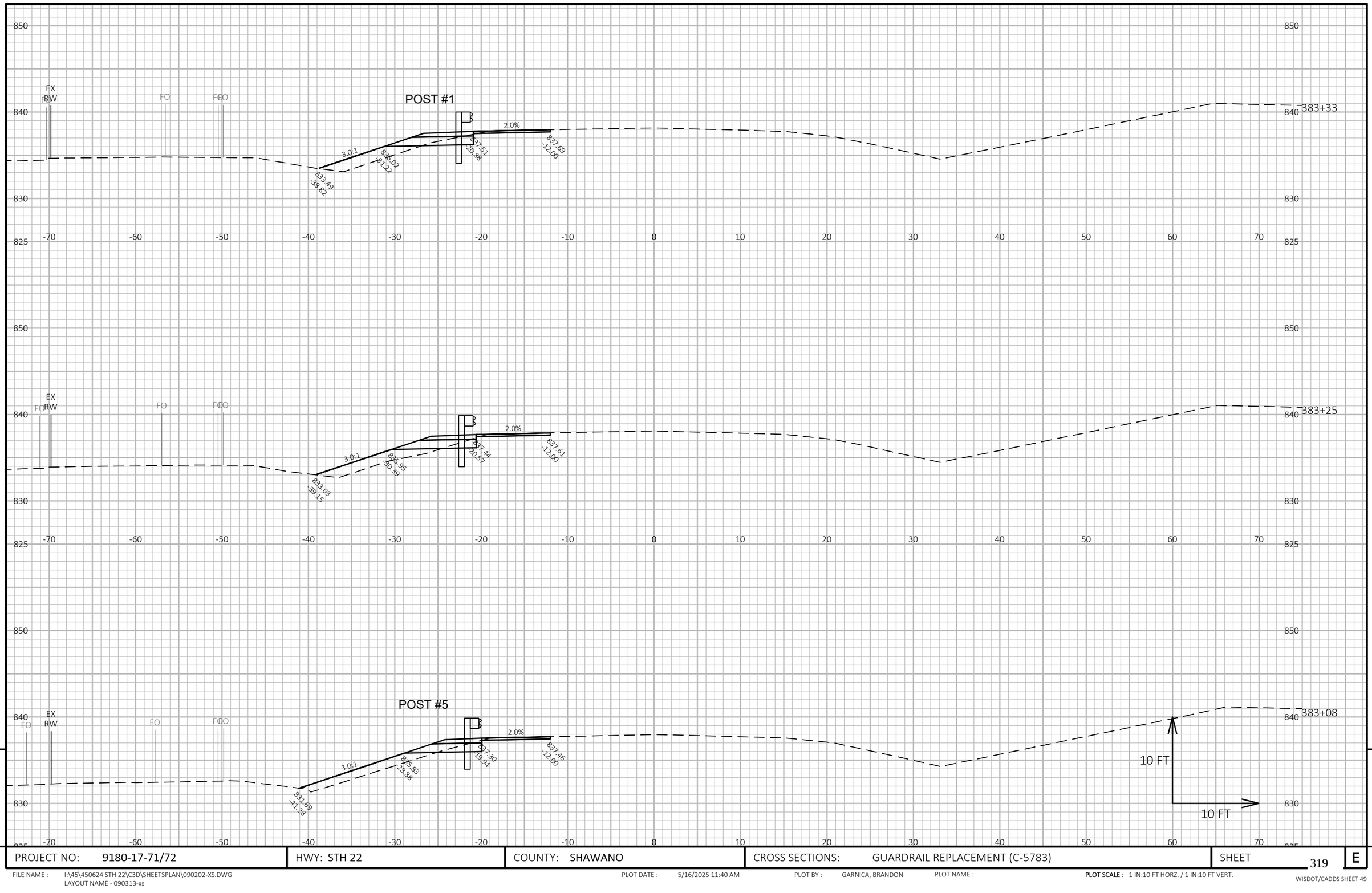
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 318	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090312-xs

PLOT DATE : 5/16/2025 11:39 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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



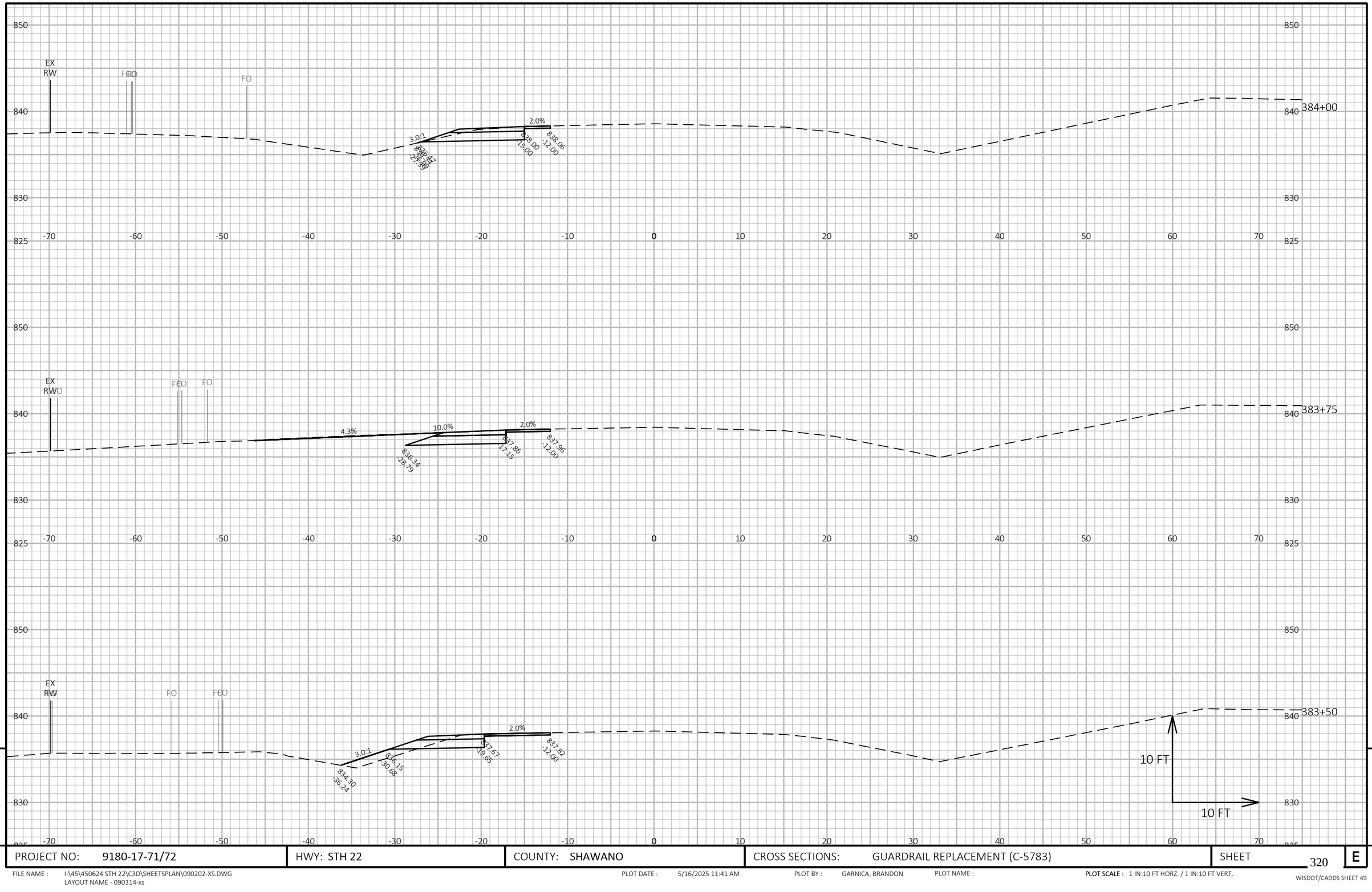
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 319	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090313-xs

PLOT DATE : 5/16/2025 11:40 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



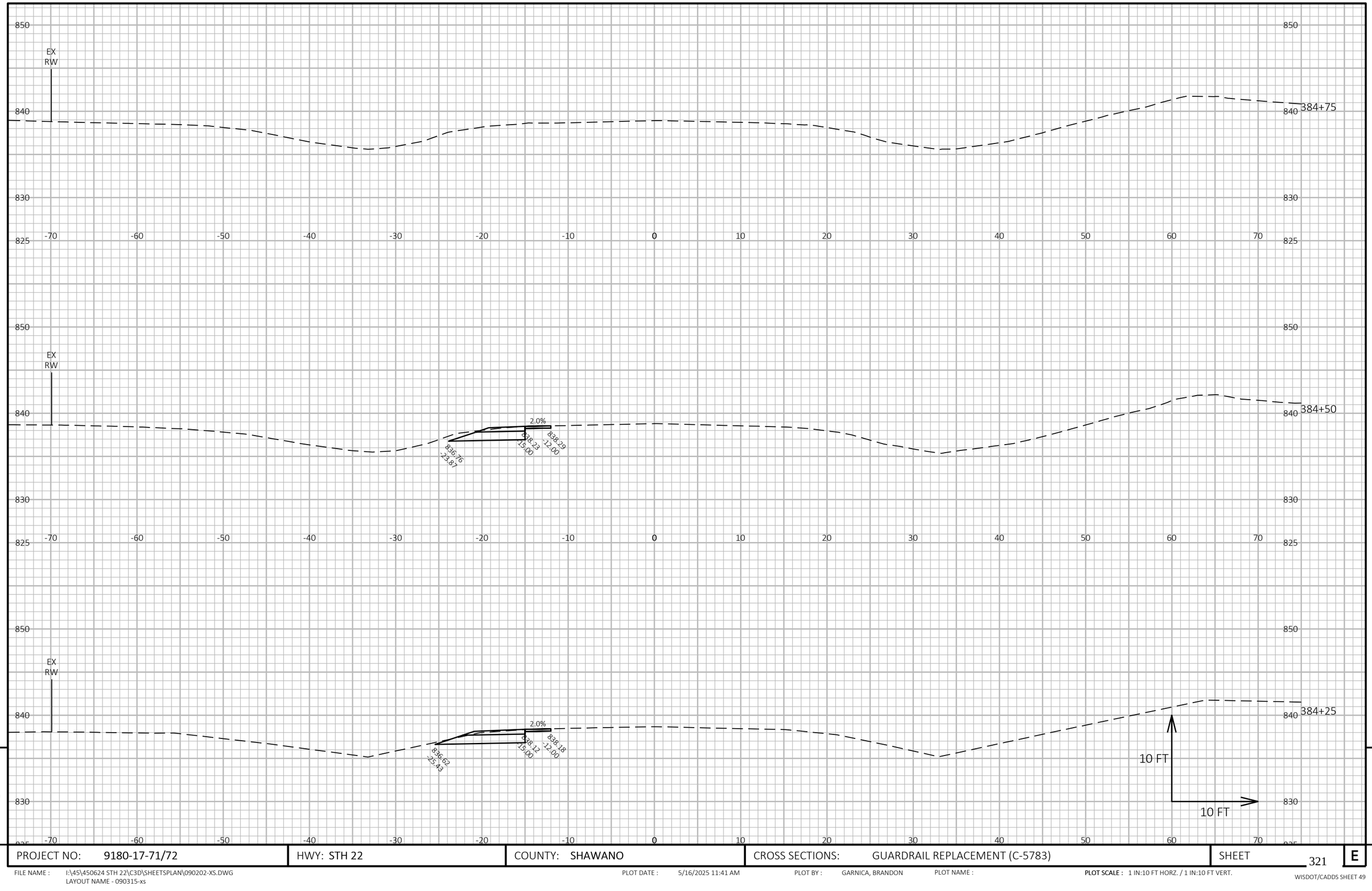
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 320	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090314-xs

PLOT DATE : 5/16/2025 11:41 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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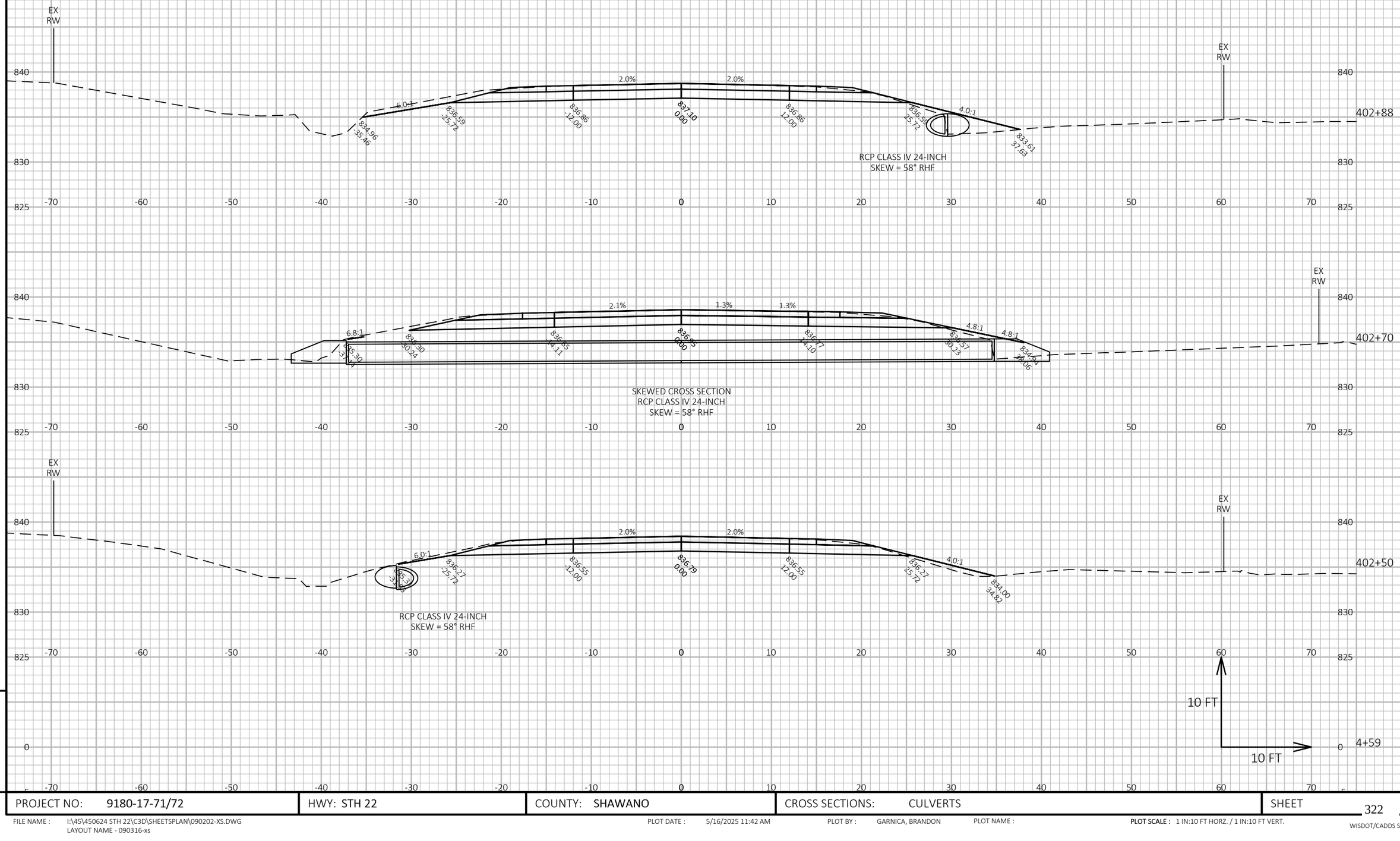
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (C-5783)	SHEET 321	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090315-xs

PLOT DATE : 5/16/2025 11:41 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

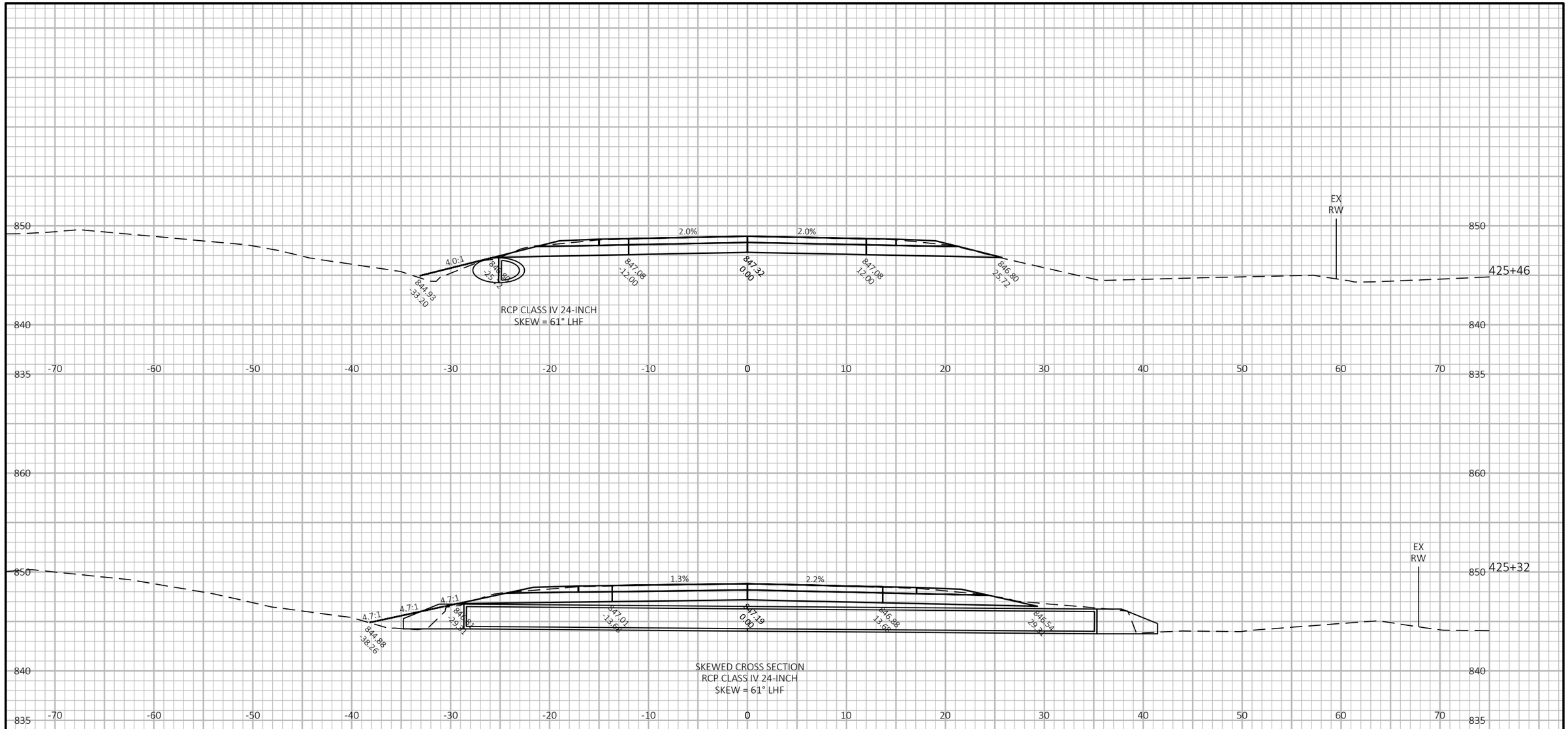


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 322	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090316-xs

PLOT DATE : 5/16/2025 11:42 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

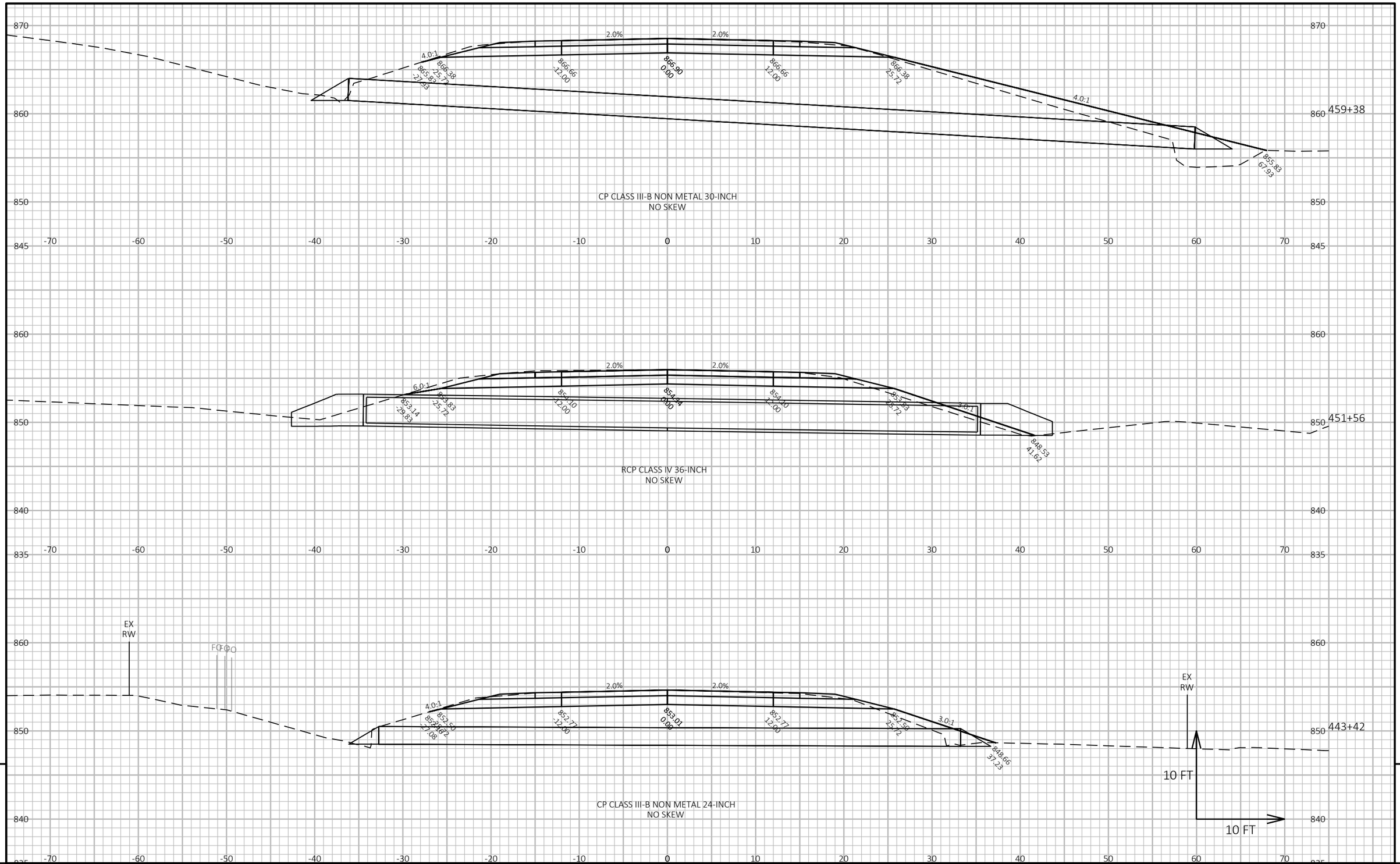
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 323	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090317-xs

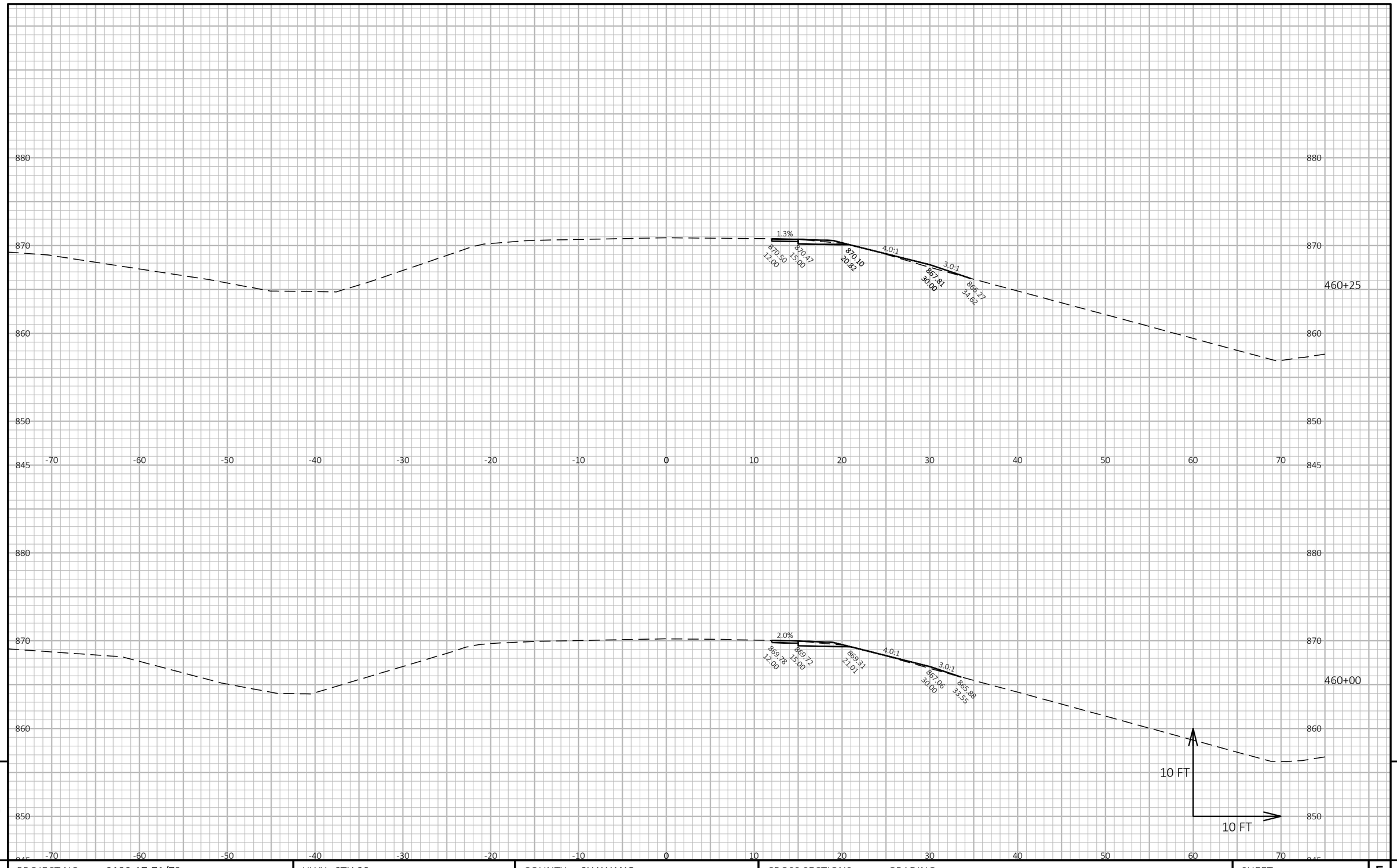
PLOT DATE : 5/16/2025 11:42 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 324	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090318-xs

PLOT DATE : 5/16/2025 11:43 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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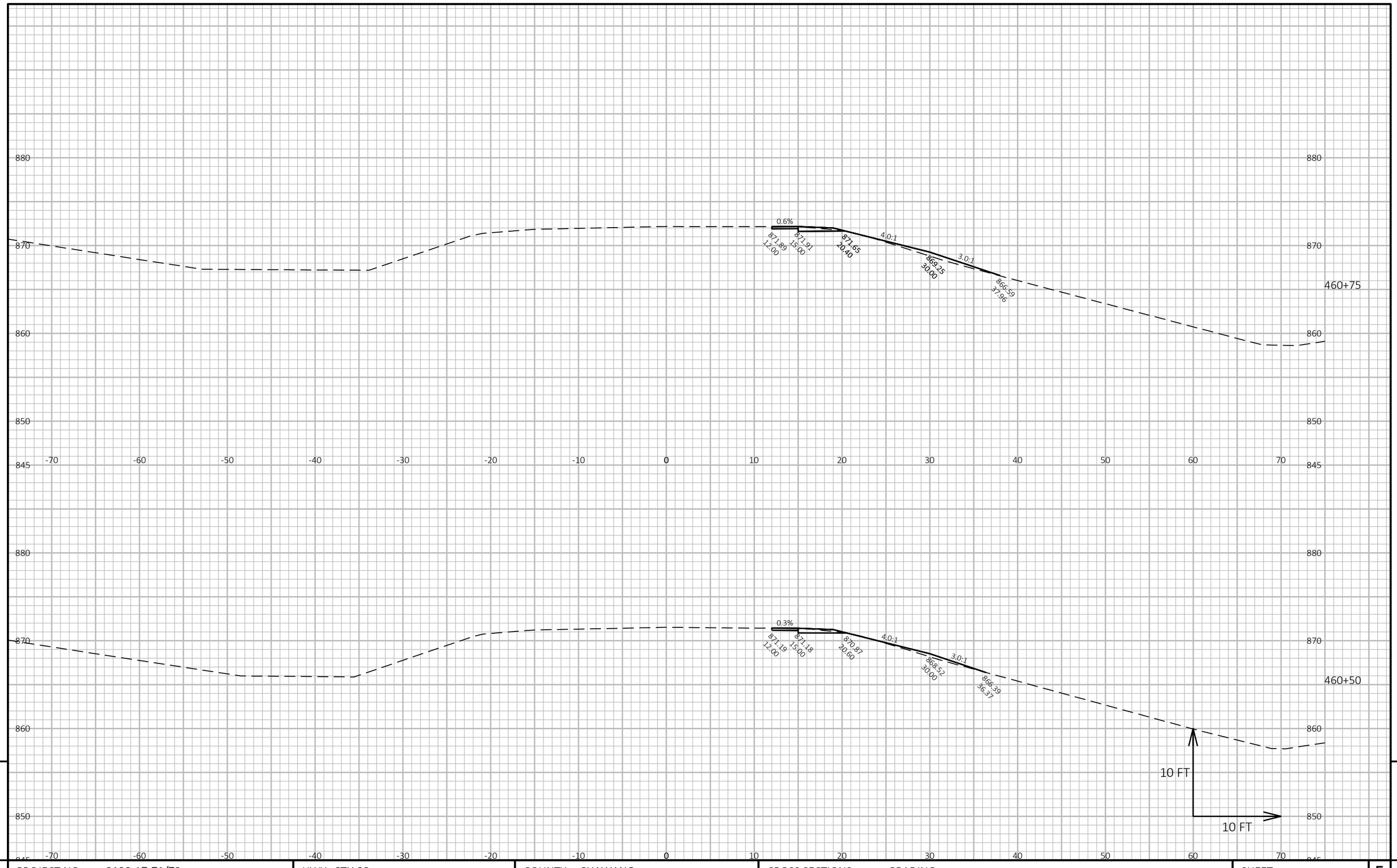
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GRADING	SHEET 325	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090319-xs

PLOT DATE : 5/16/2025 11:43 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



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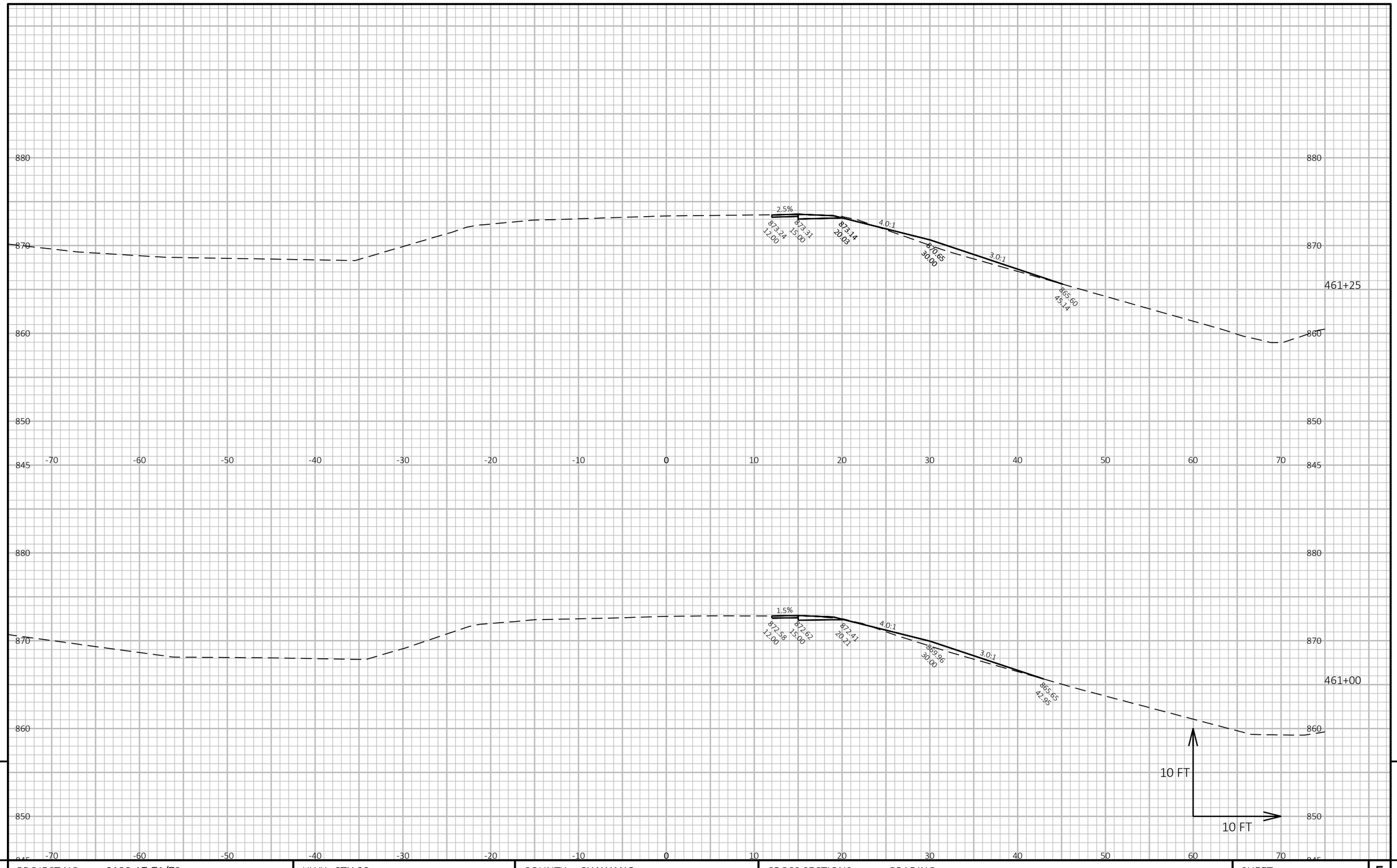
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GRADING	SHEET 326	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090320-xs

PLOT DATE : 5/16/2025 11:44 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



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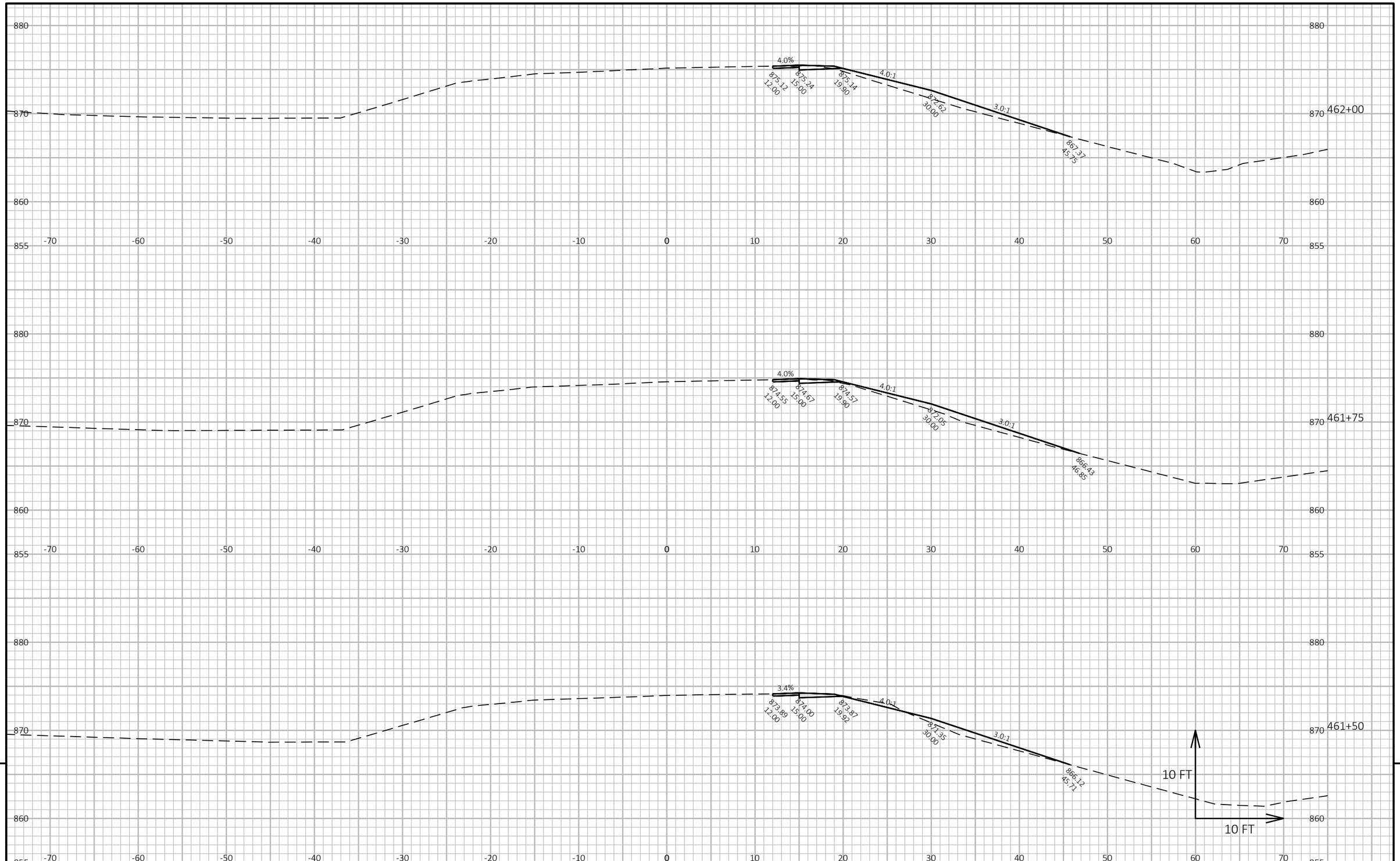
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GRADING	SHEET 327	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090321-xs

PLOT DATE : 5/16/2025 11:45 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



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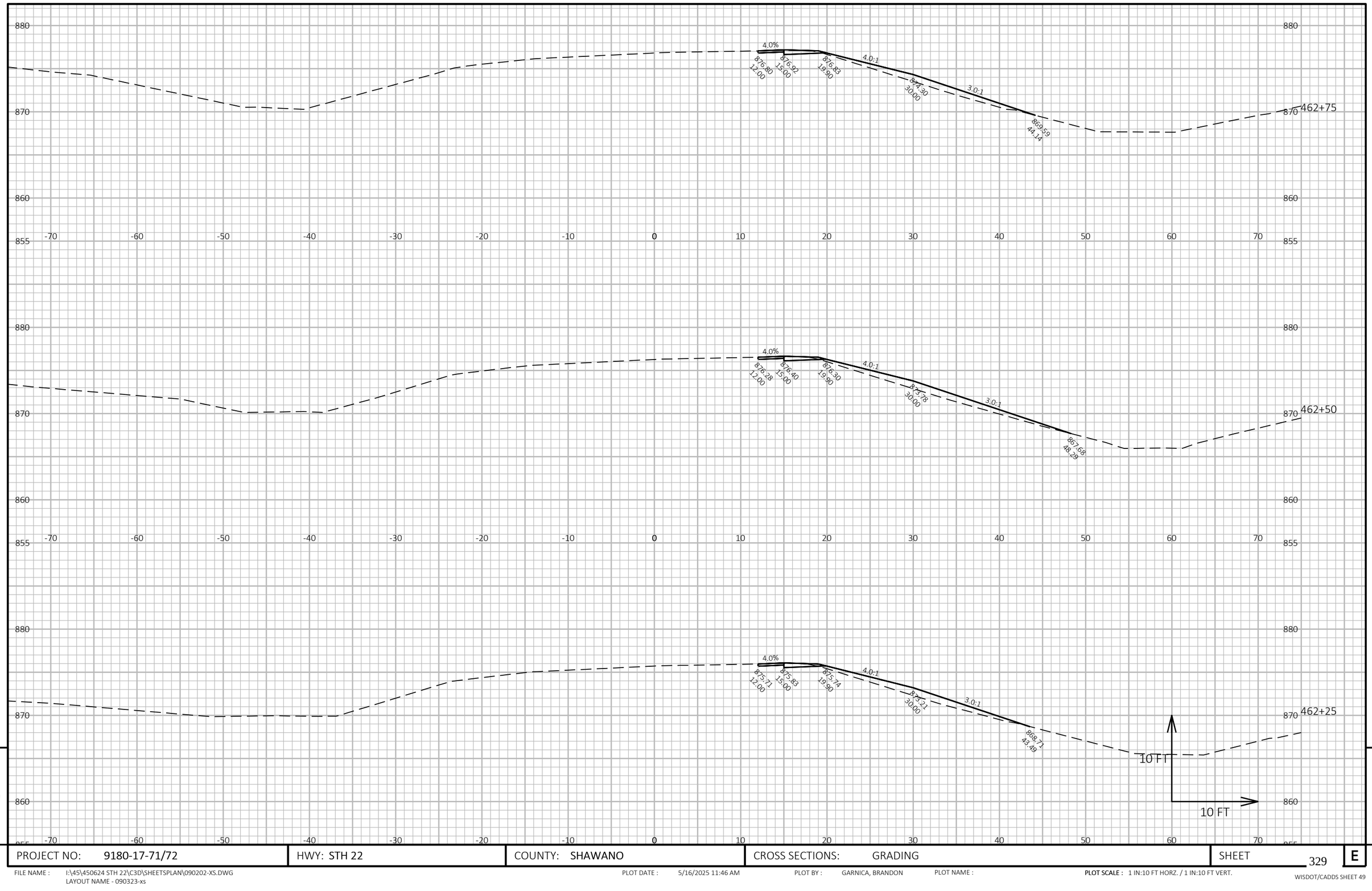
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GRADING	SHEET 328	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090322-xs

PLOT DATE : 5/16/2025 11:45 AM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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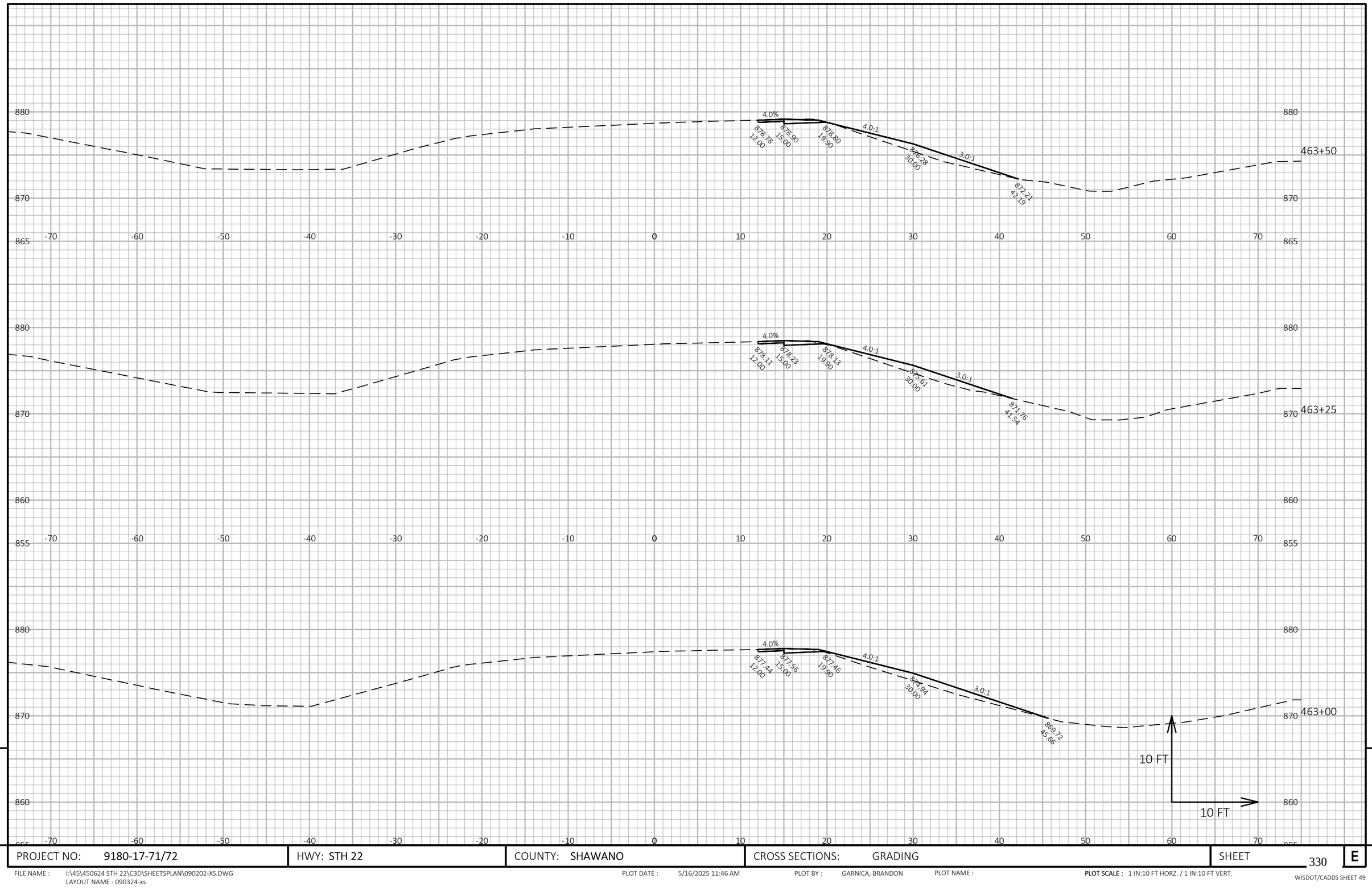
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GRADING	SHEET 329	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090323-xs

PLOT DATE : 5/16/2025 11:46 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



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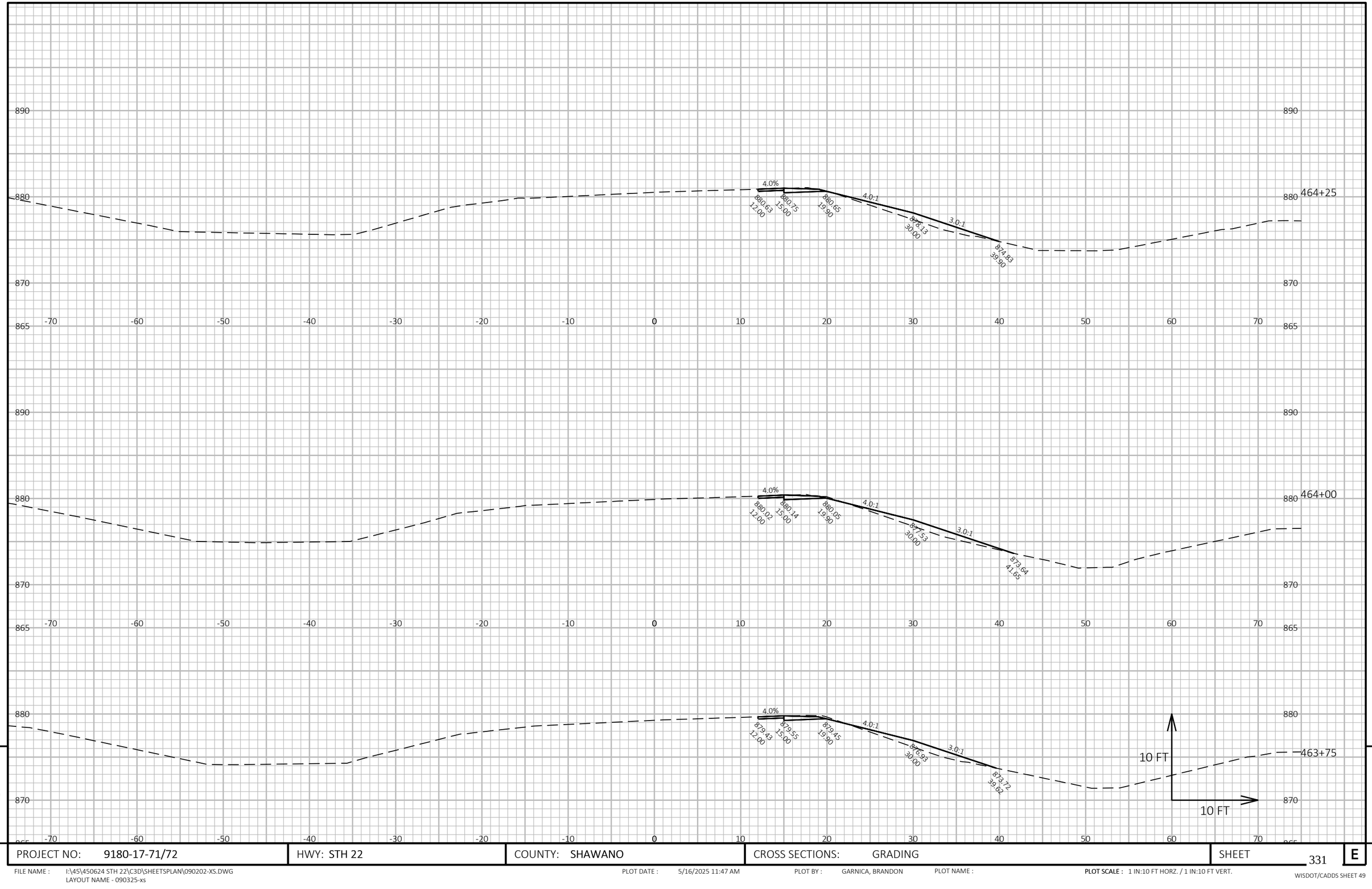
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GRADING	SHEET 330	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090324-xs

PLOT DATE : 5/16/2025 11:46 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



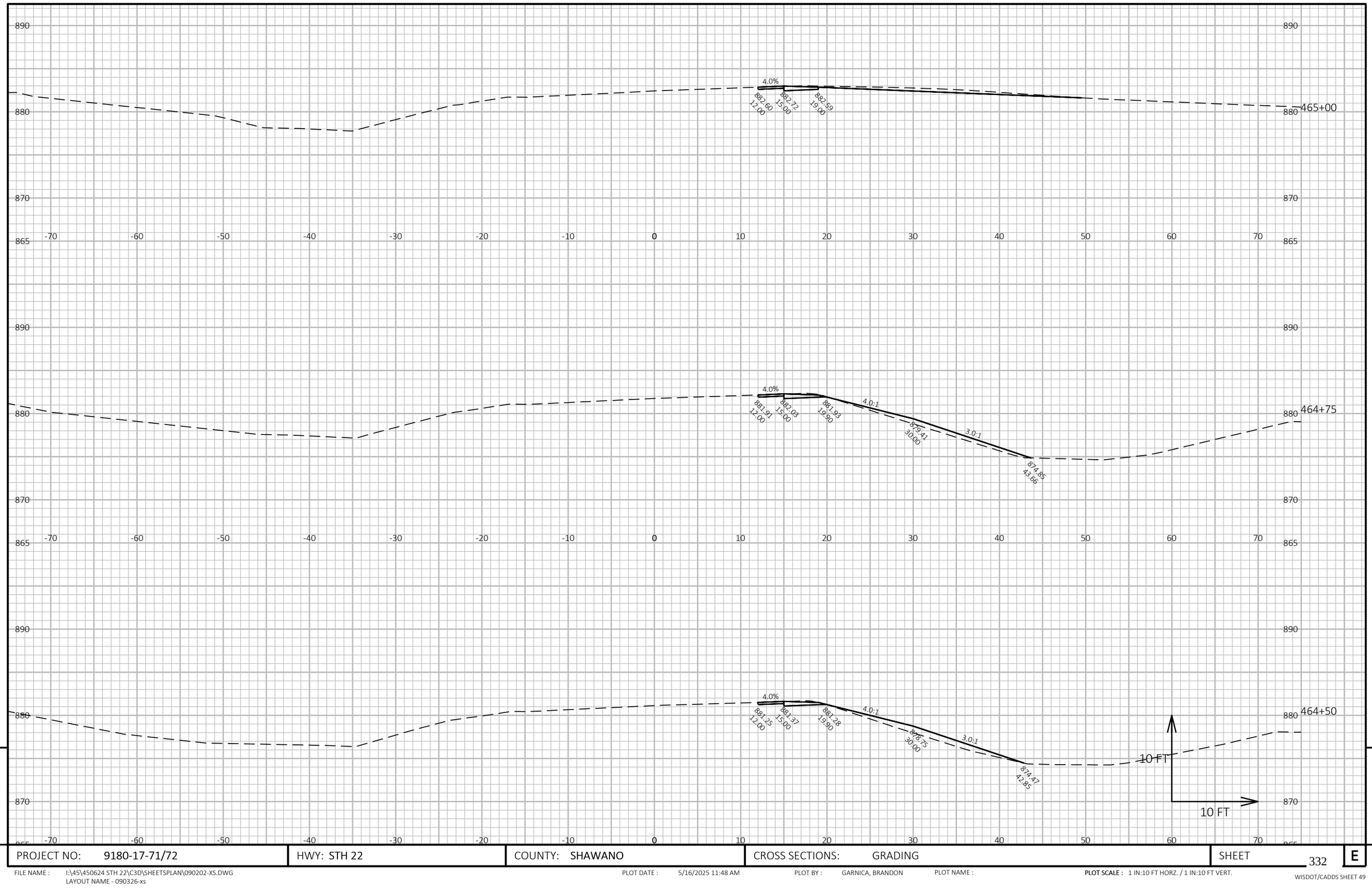
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GRADING	SHEET 331	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090325-xs

PLOT DATE : 5/16/2025 11:47 AM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49

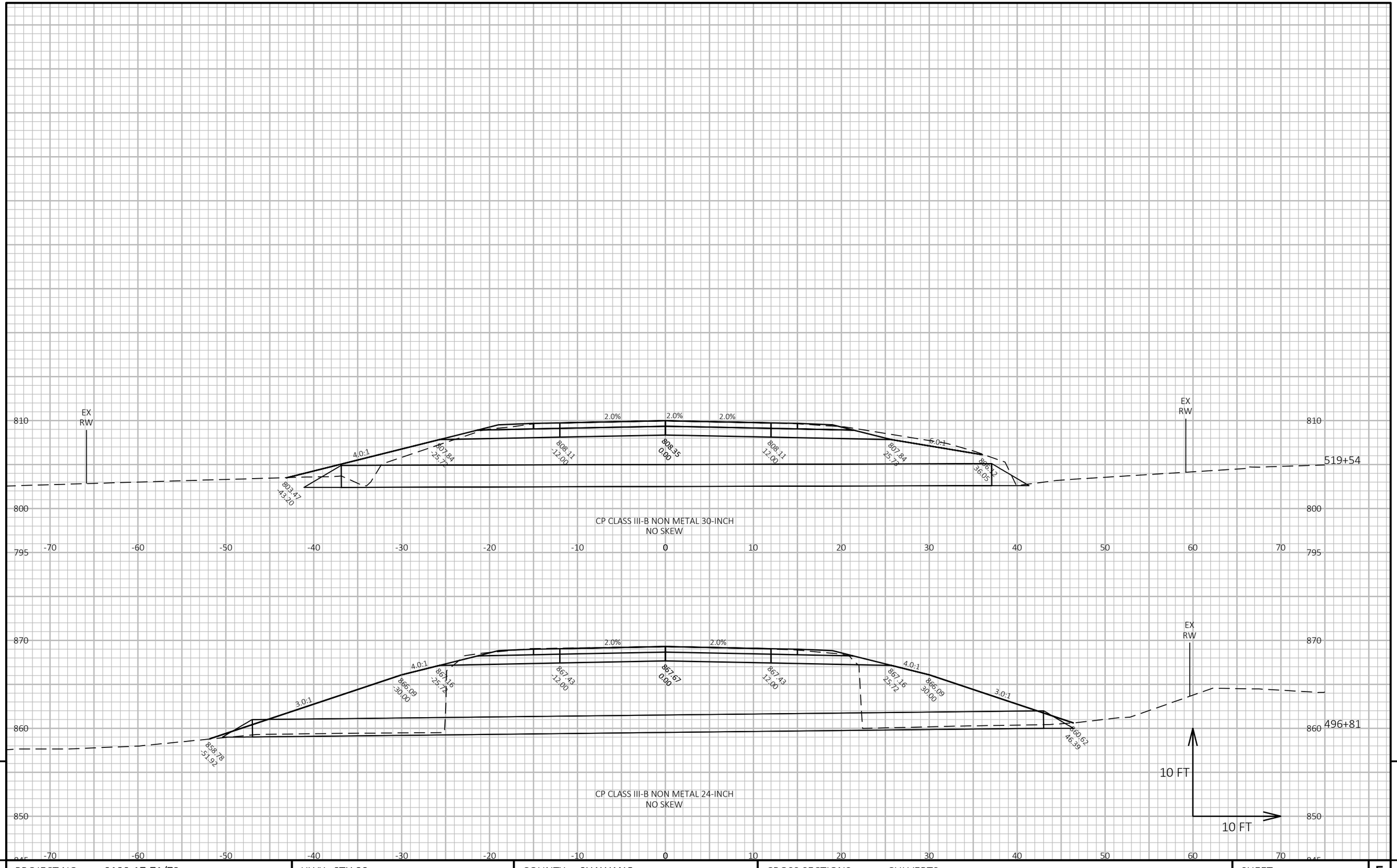


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GRADING	SHEET 332	E

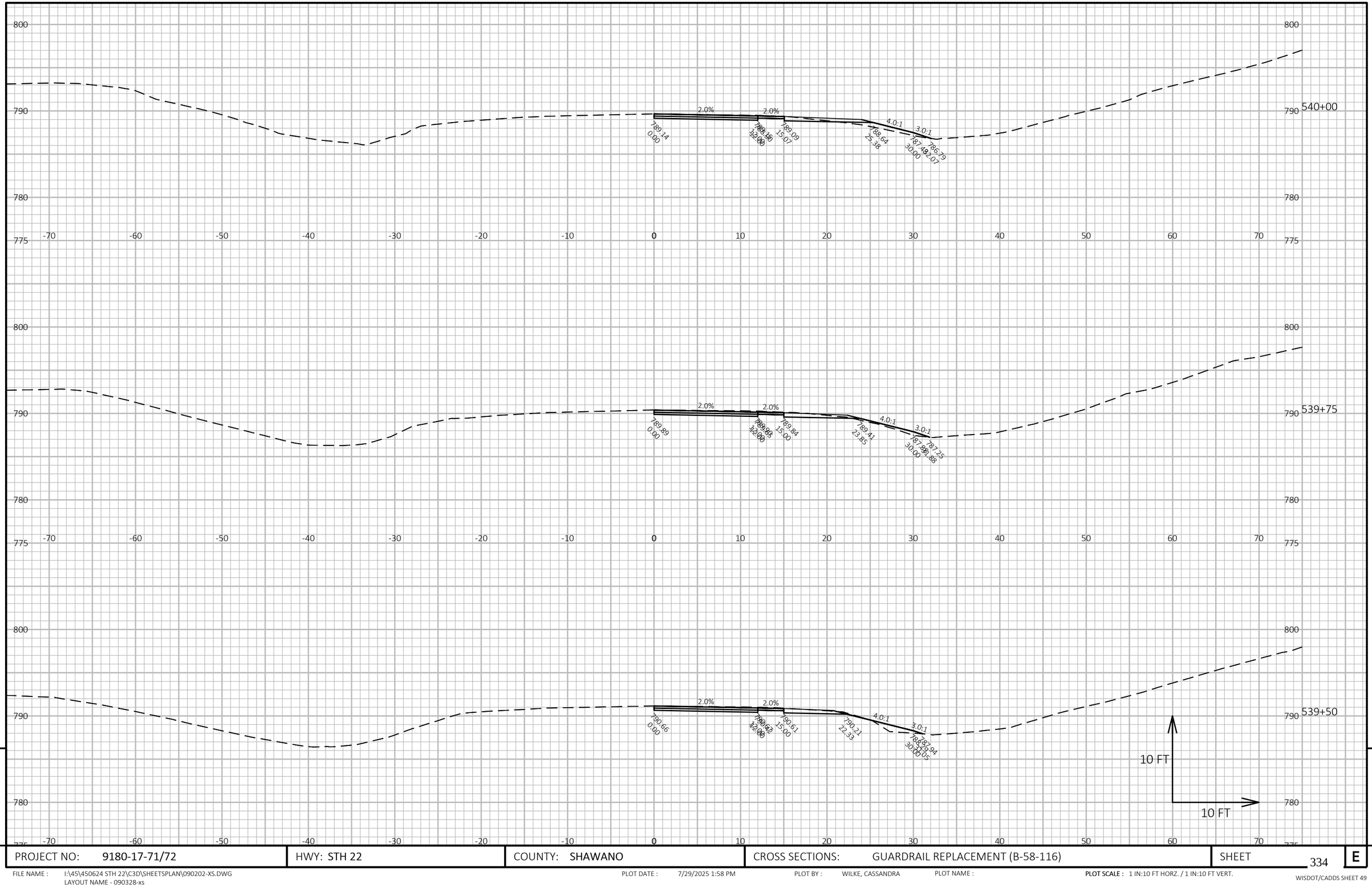
FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090326-xs

PLOT DATE : 5/16/2025 11:48 AM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 333	E



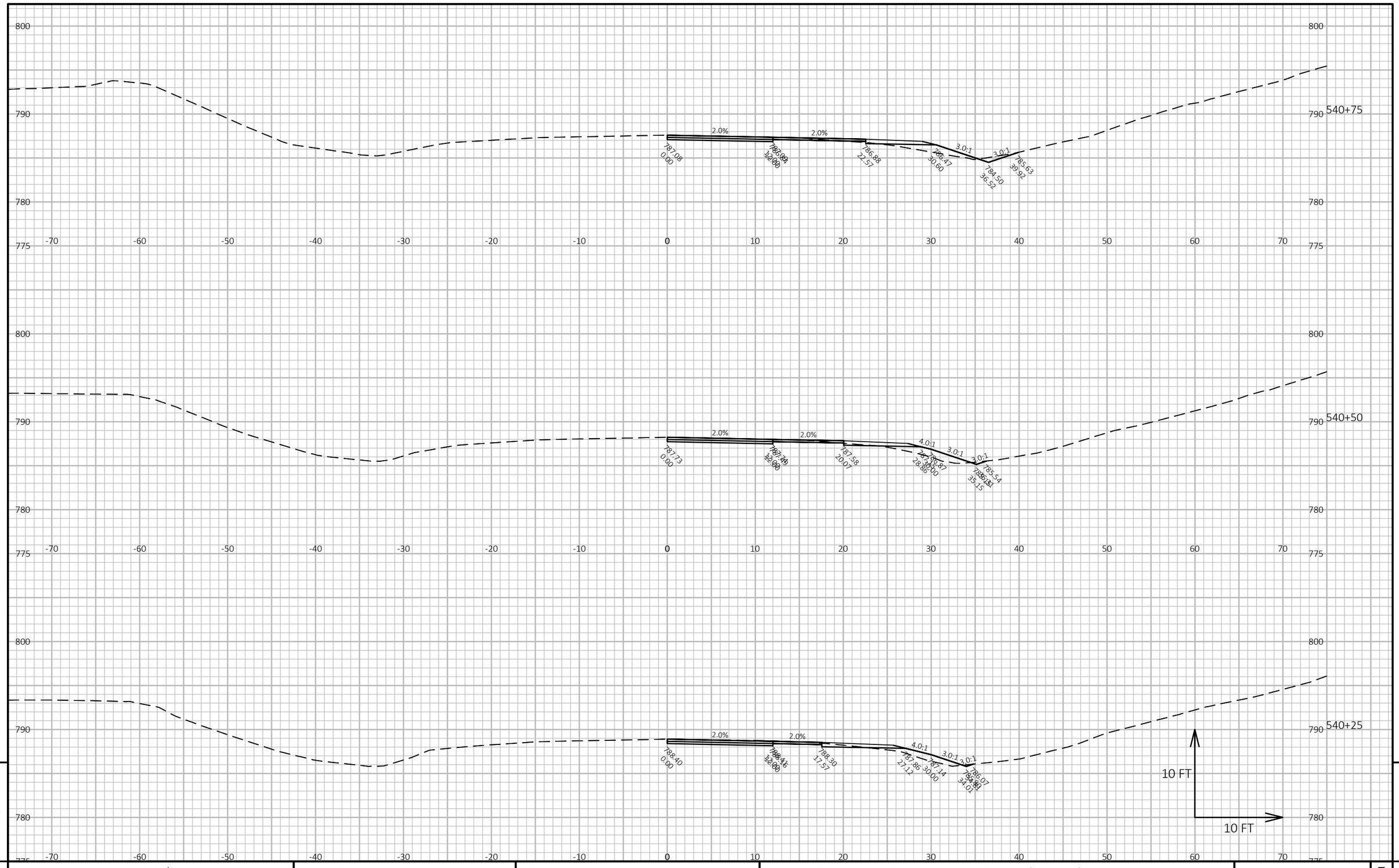
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 334	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090328-xs

PLOT DATE : 7/29/2025 1:58 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 335	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090329-xs

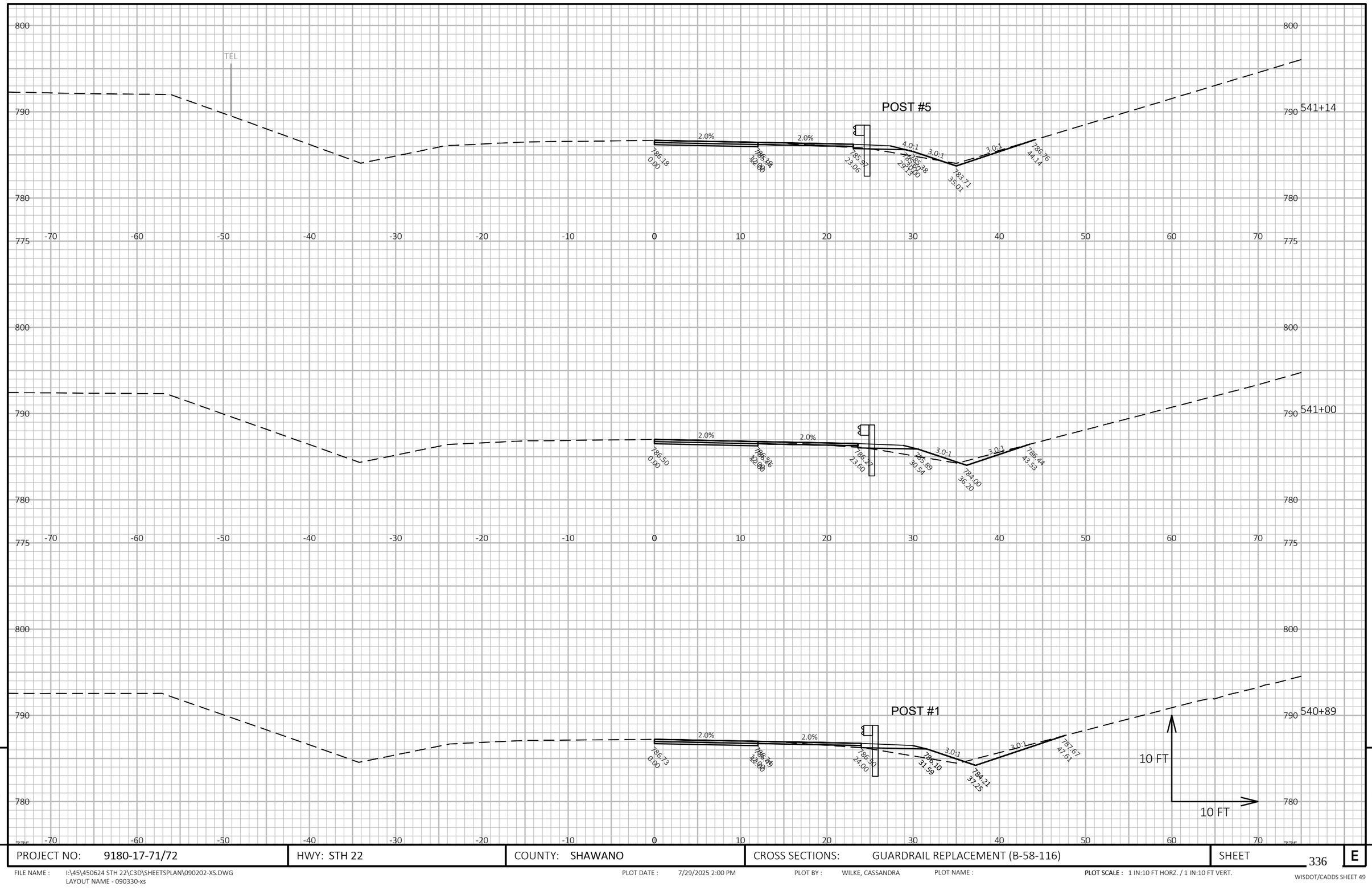
PLOT DATE : 7/29/2025 1:59 PM

PLOT BY : WILKE, CASSANDRA

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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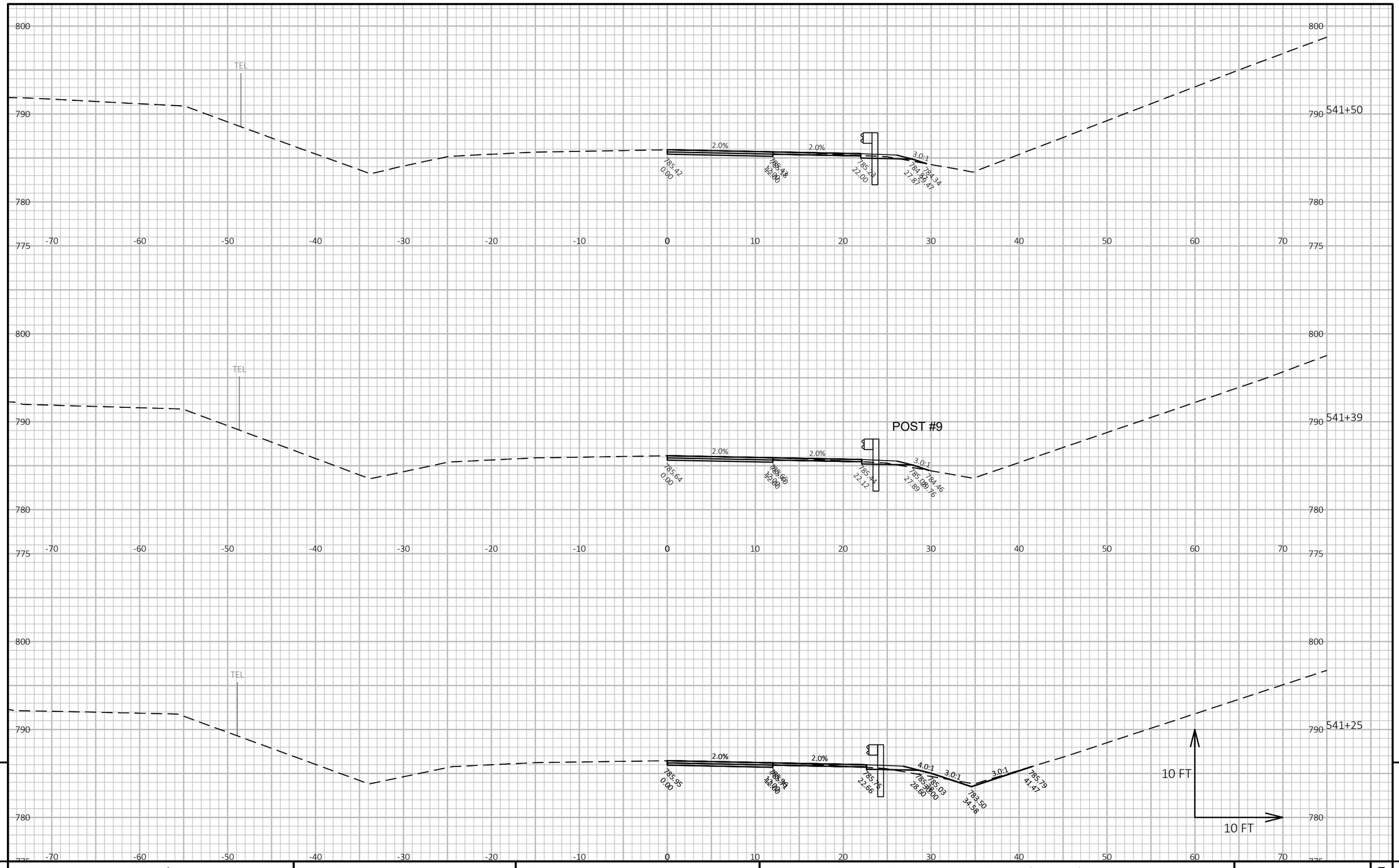
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 336	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090330-xs

PLOT DATE : 7/29/2025 2:00 PM PLOT BY : WILKE, CASSANDRA PLOT NAME :

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

WISDOT/CADDS SHEET 49



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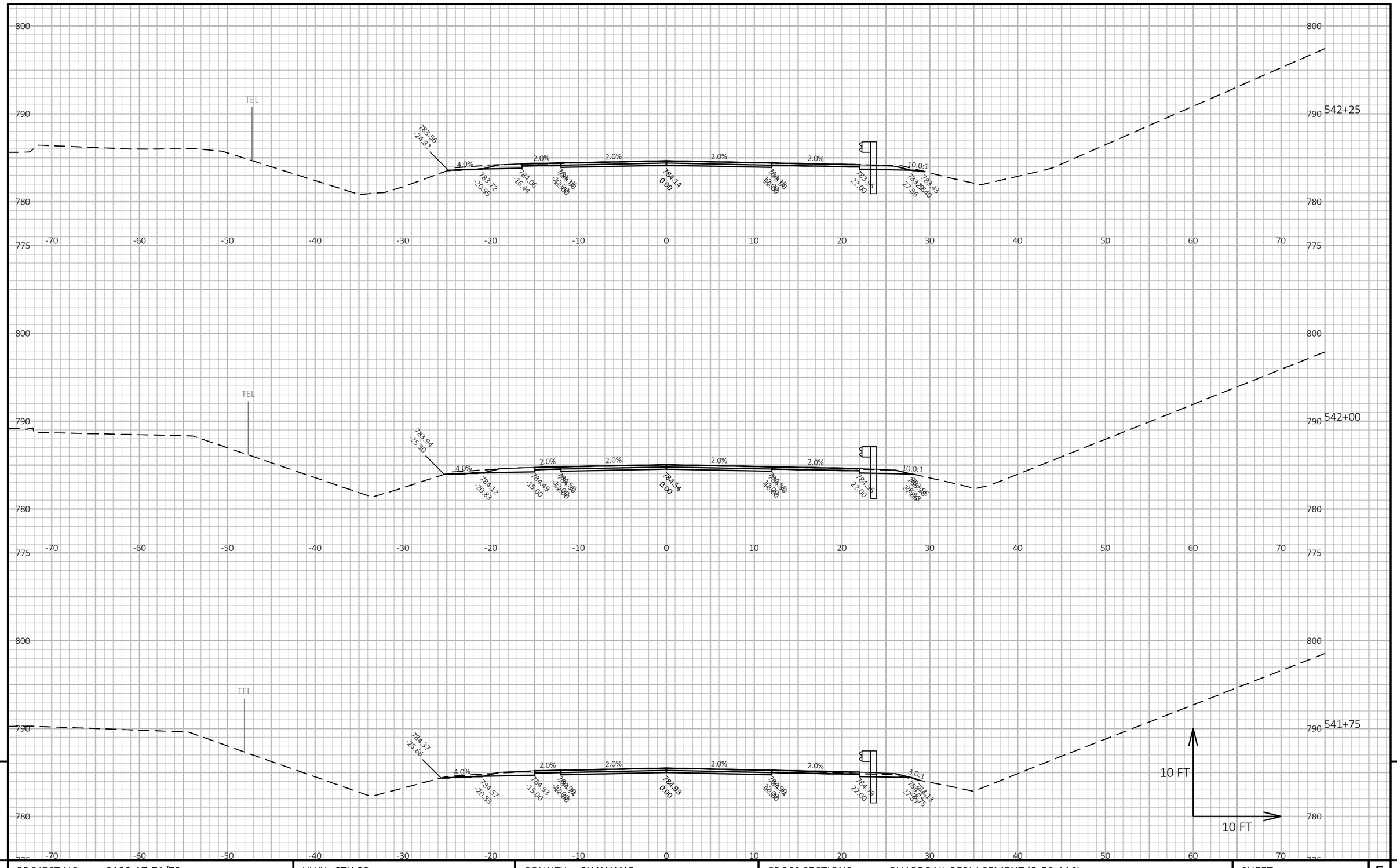
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 337	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090331-xs

PLOT DATE : 7/29/2025 2:00 PM PLOT BY : WILKE, CASSANDRA PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 338	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090332-xs

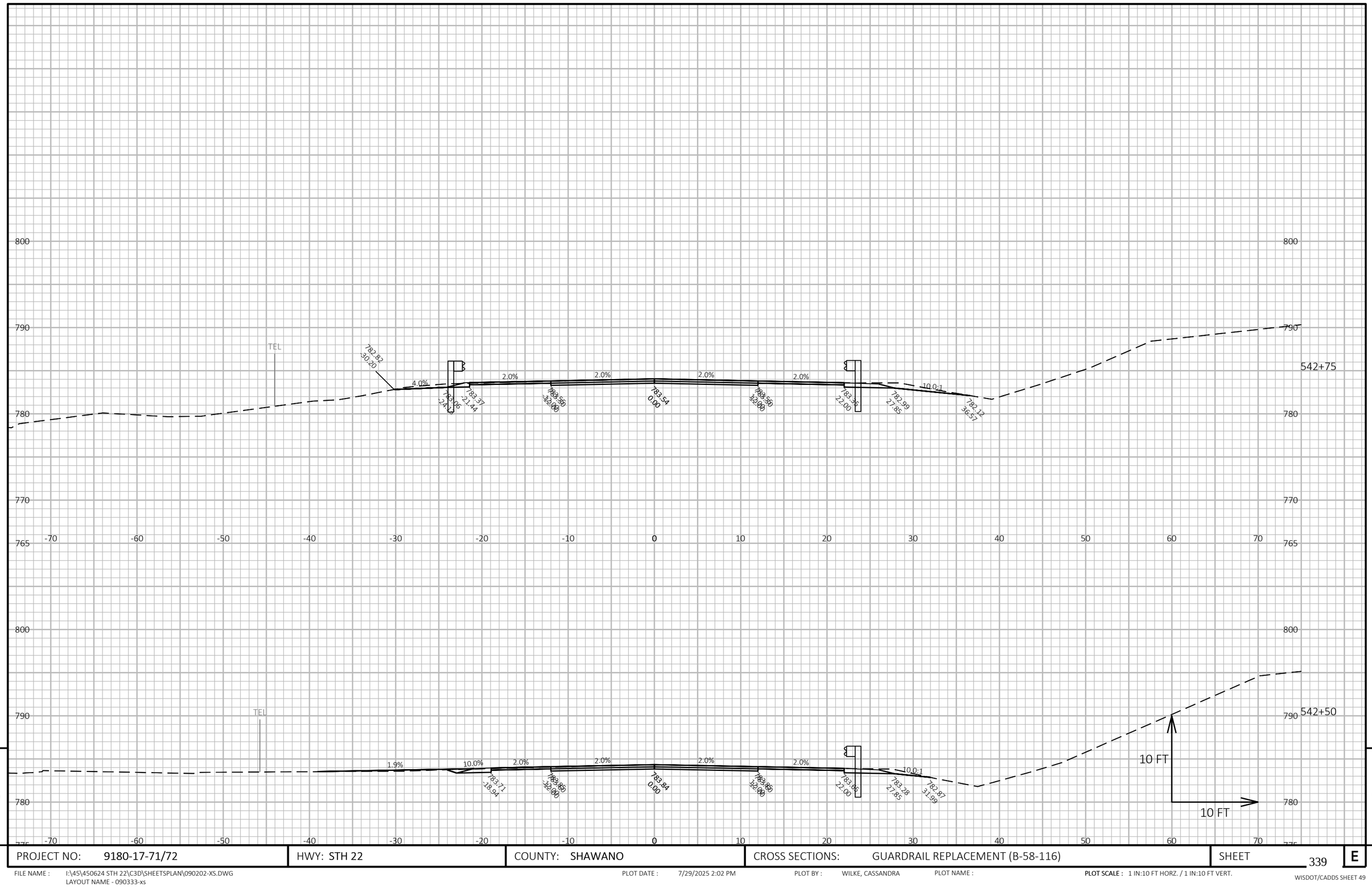
PLOT DATE : 7/29/2025 2:01 PM

PLOT BY : WILKE, CASSANDRA

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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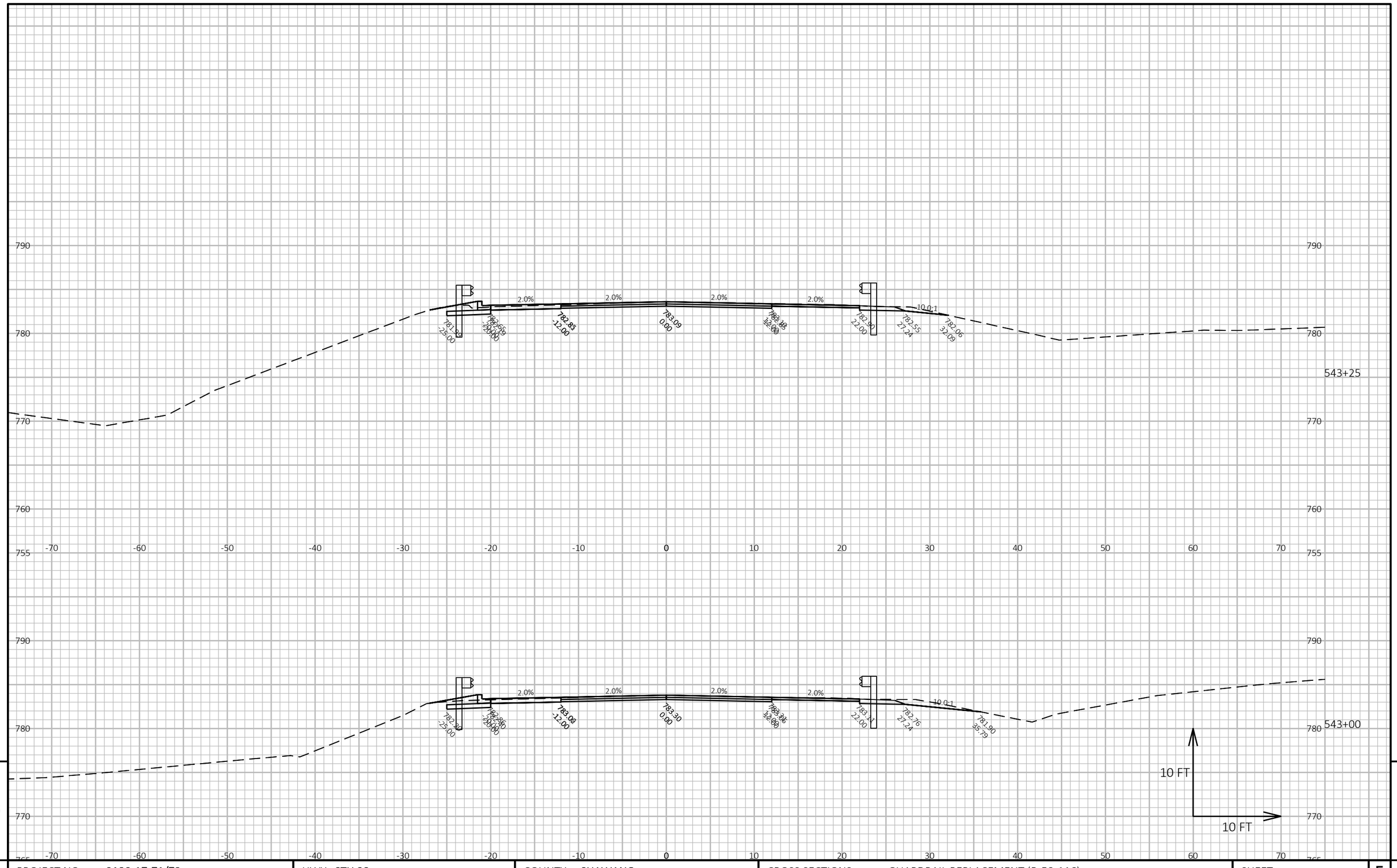
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 339	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090333-xs

PLOT DATE : 7/29/2025 2:02 PM PLOT BY : WILKE, CASSANDRA PLOT NAME :

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

WISDOT/CADDS SHEET 49

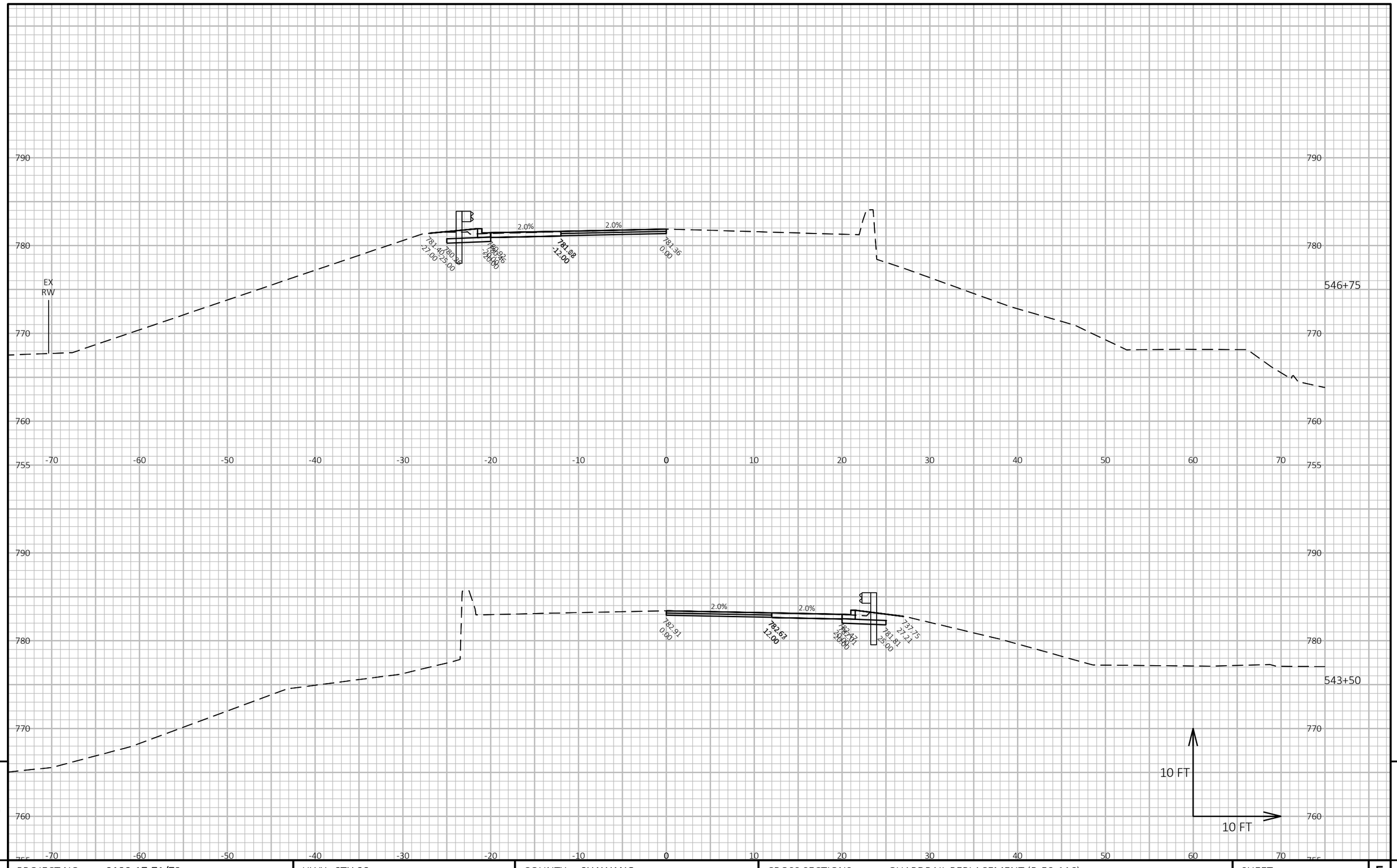


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 340 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090334-xs

PLOT DATE : 7/29/2025 2:03 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

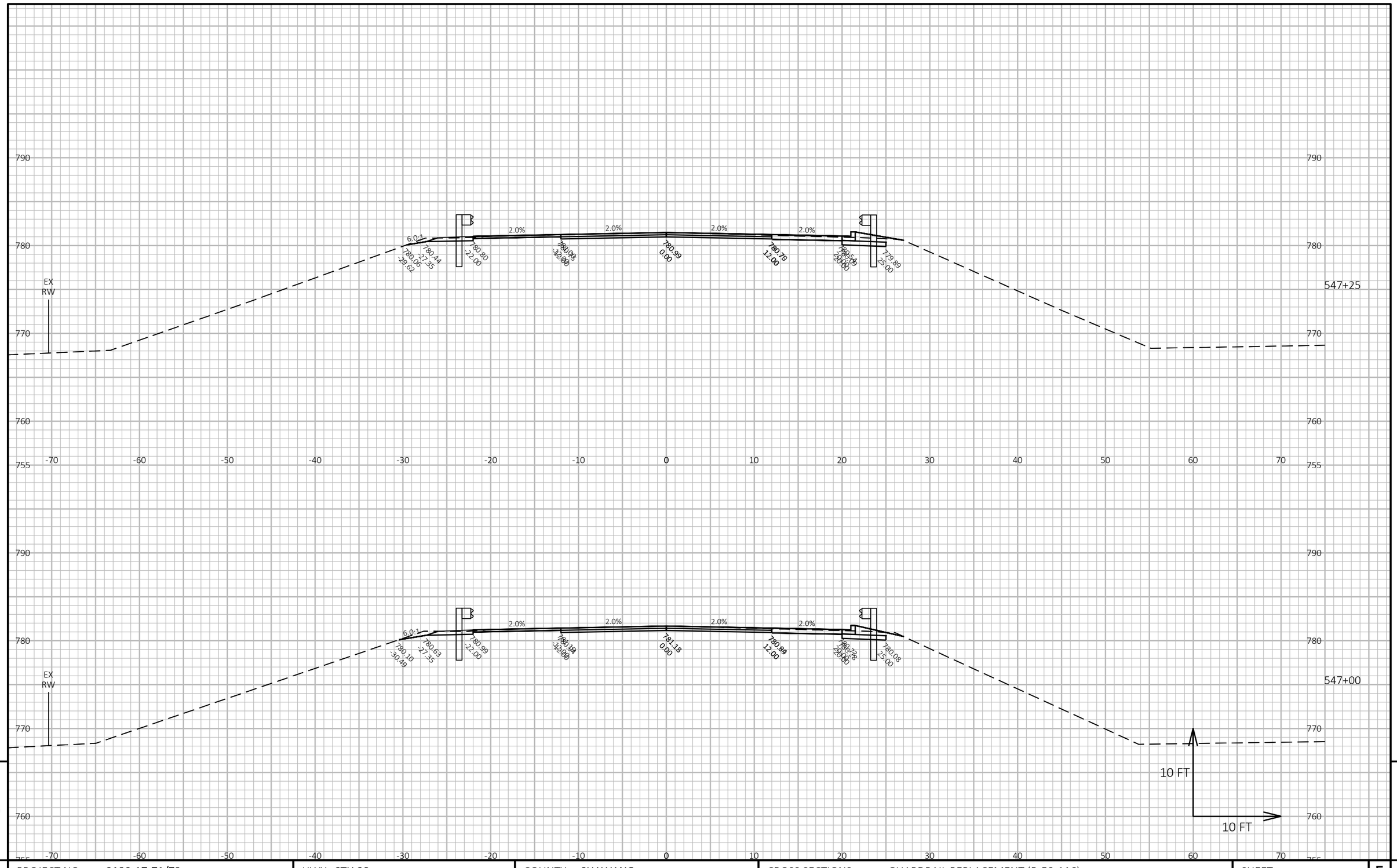


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 341 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090335-xs

PLOT DATE : 7/29/2025 2:03 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



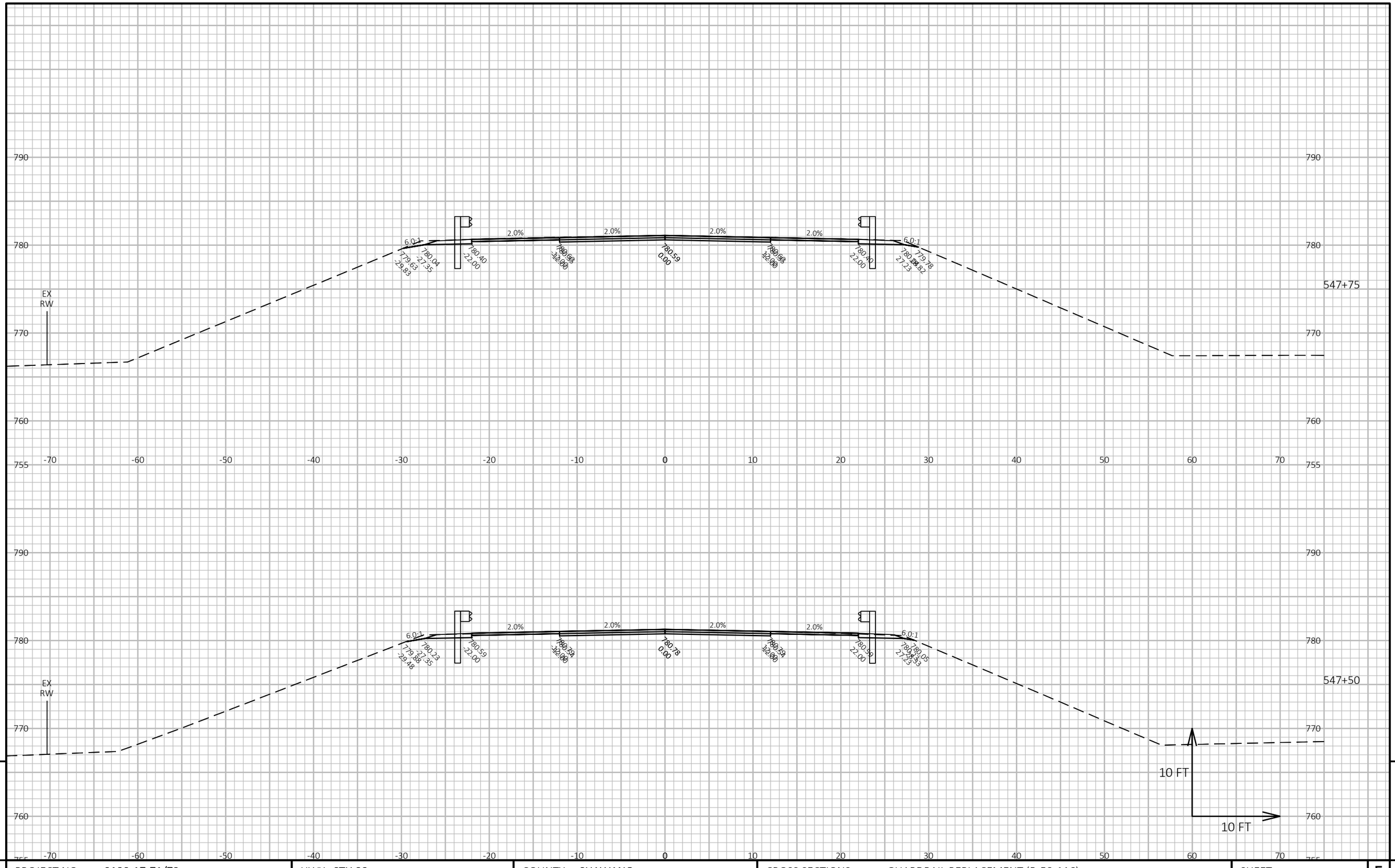
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 342	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090336-xs

PLOT DATE : 7/29/2025 2:04 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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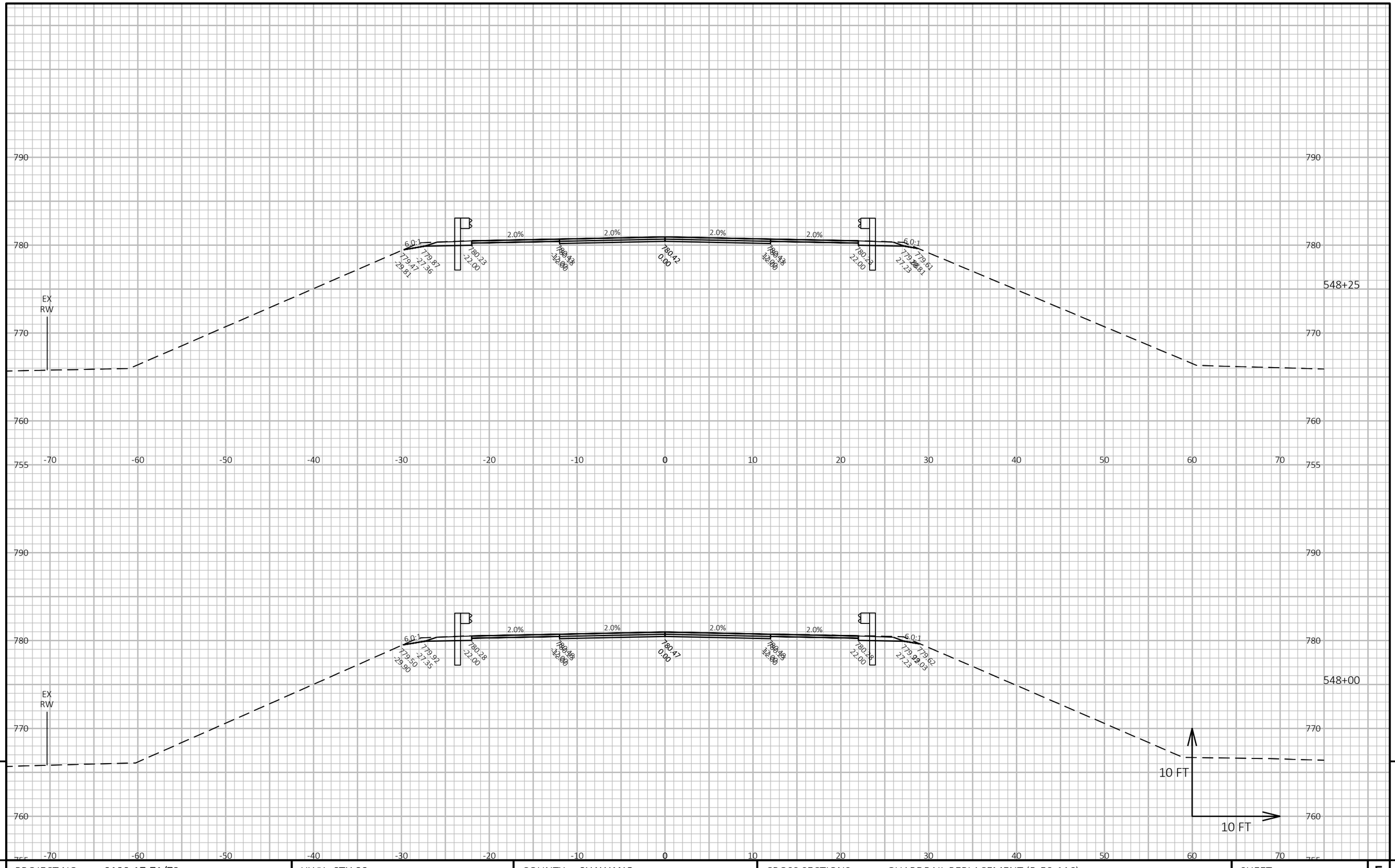
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 343	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090337-xs

PLOT DATE : 7/29/2025 2:05 PM PLOT BY : WILKE, CASSANDRA PLOT NAME :

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

WISDOT/CADDS SHEET 49



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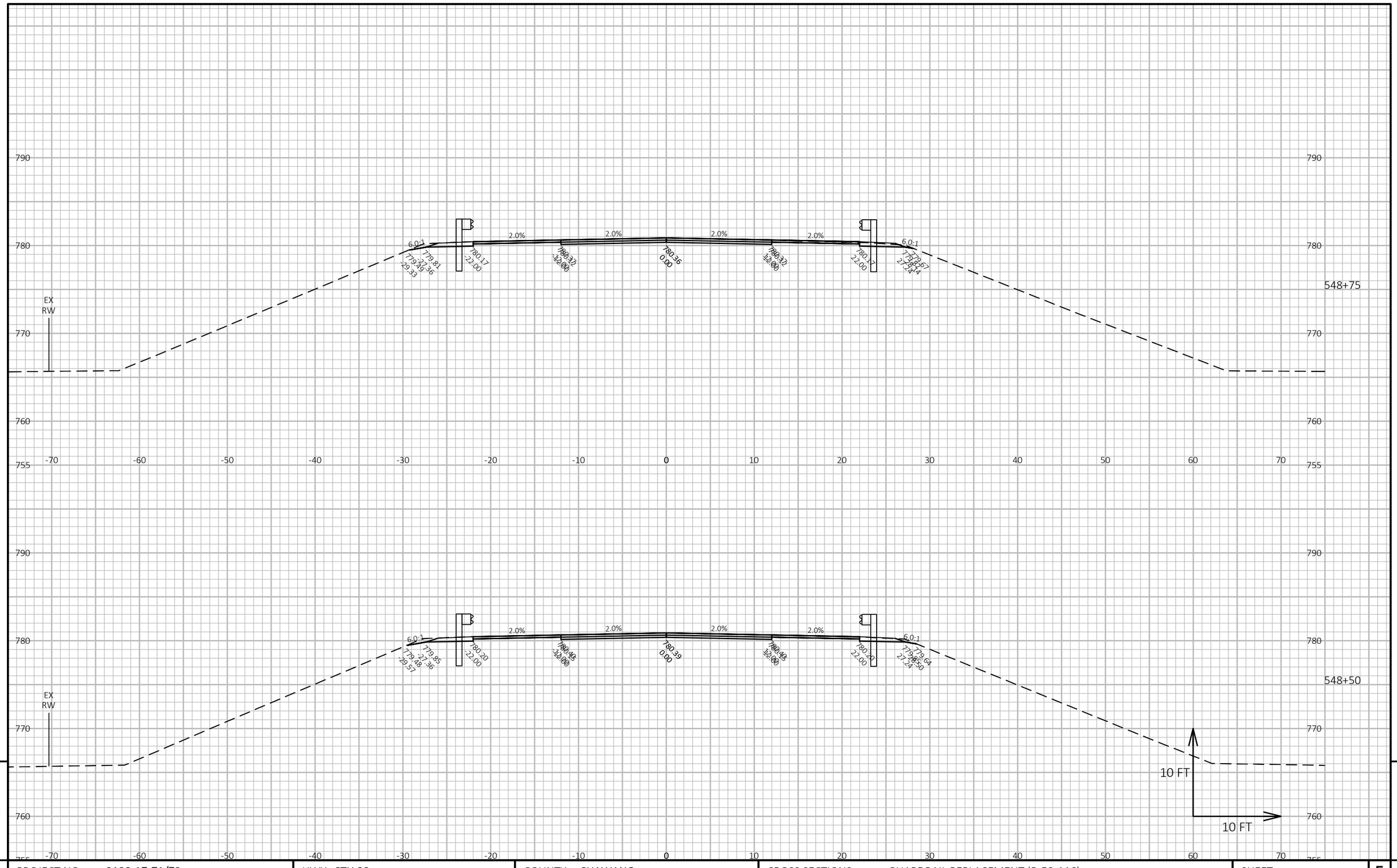
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 344	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090338-xs

PLOT DATE : 7/29/2025 2:06 PM PLOT BY : WILKE, CASSANDRA PLOT NAME :

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

WISDOT/CADDS SHEET 49



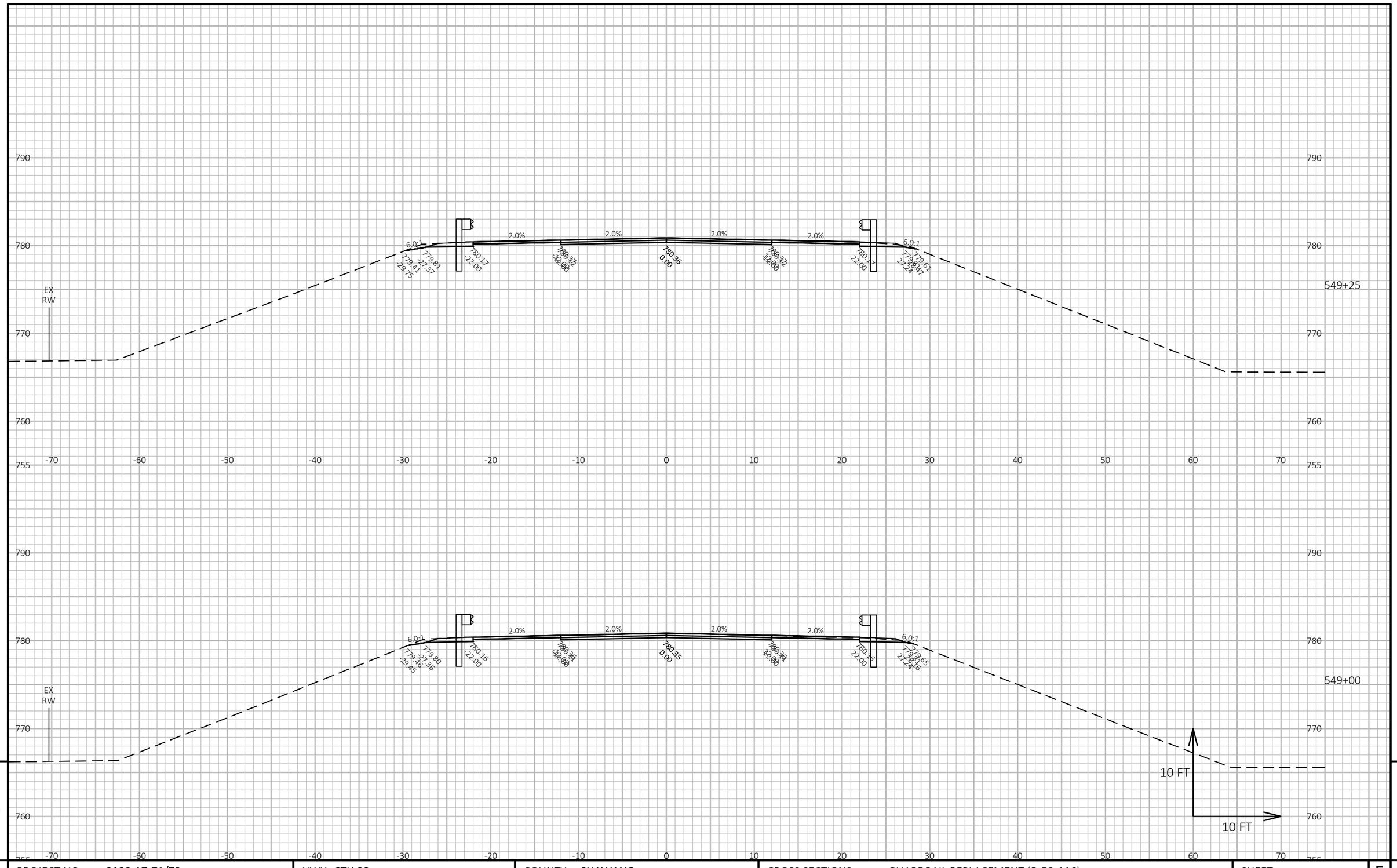
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 345	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090339-xs

PLOT DATE : 7/29/2025 2:06 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



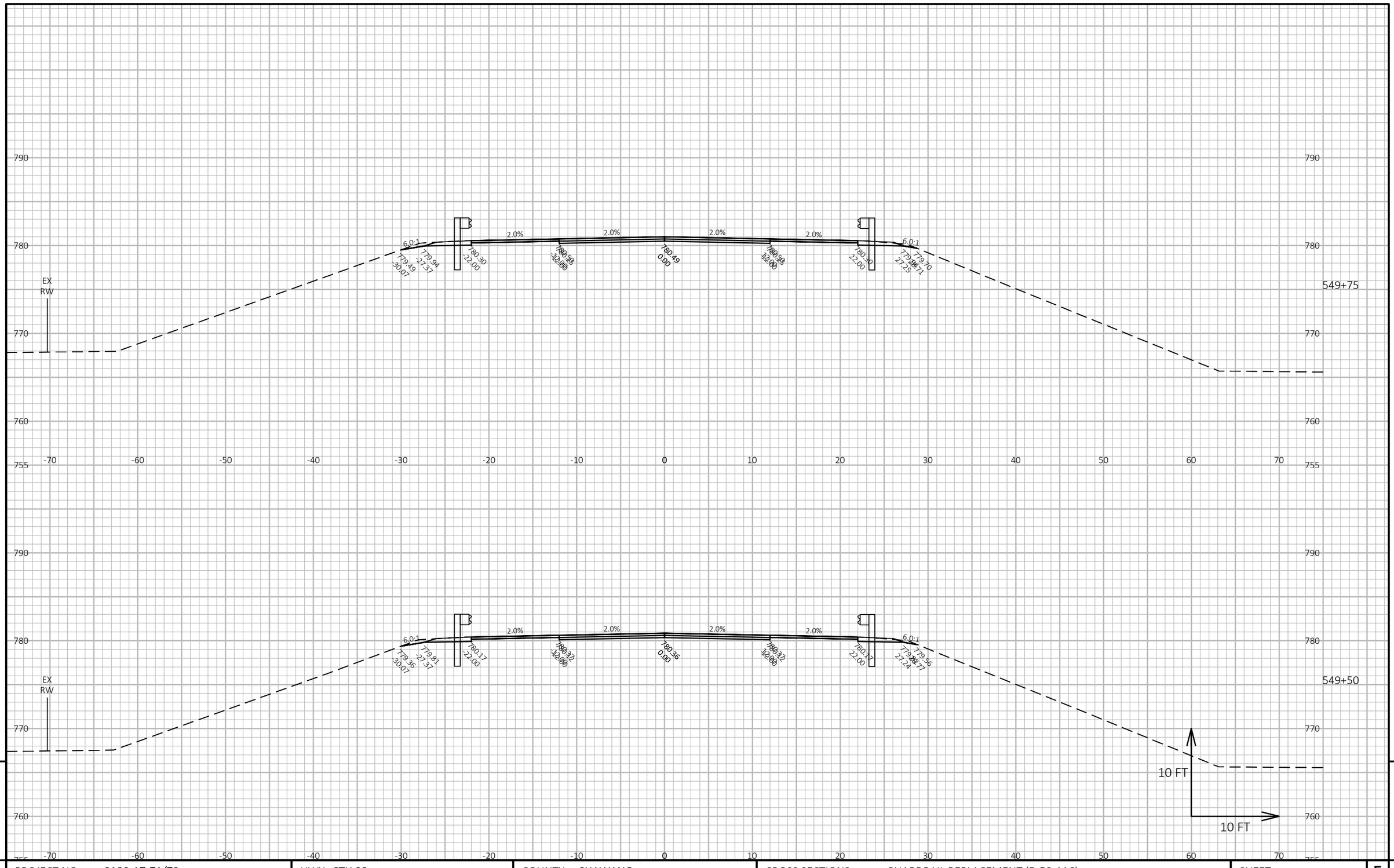
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 346	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090340-xs

PLOT DATE : 7/29/2025 2:07 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



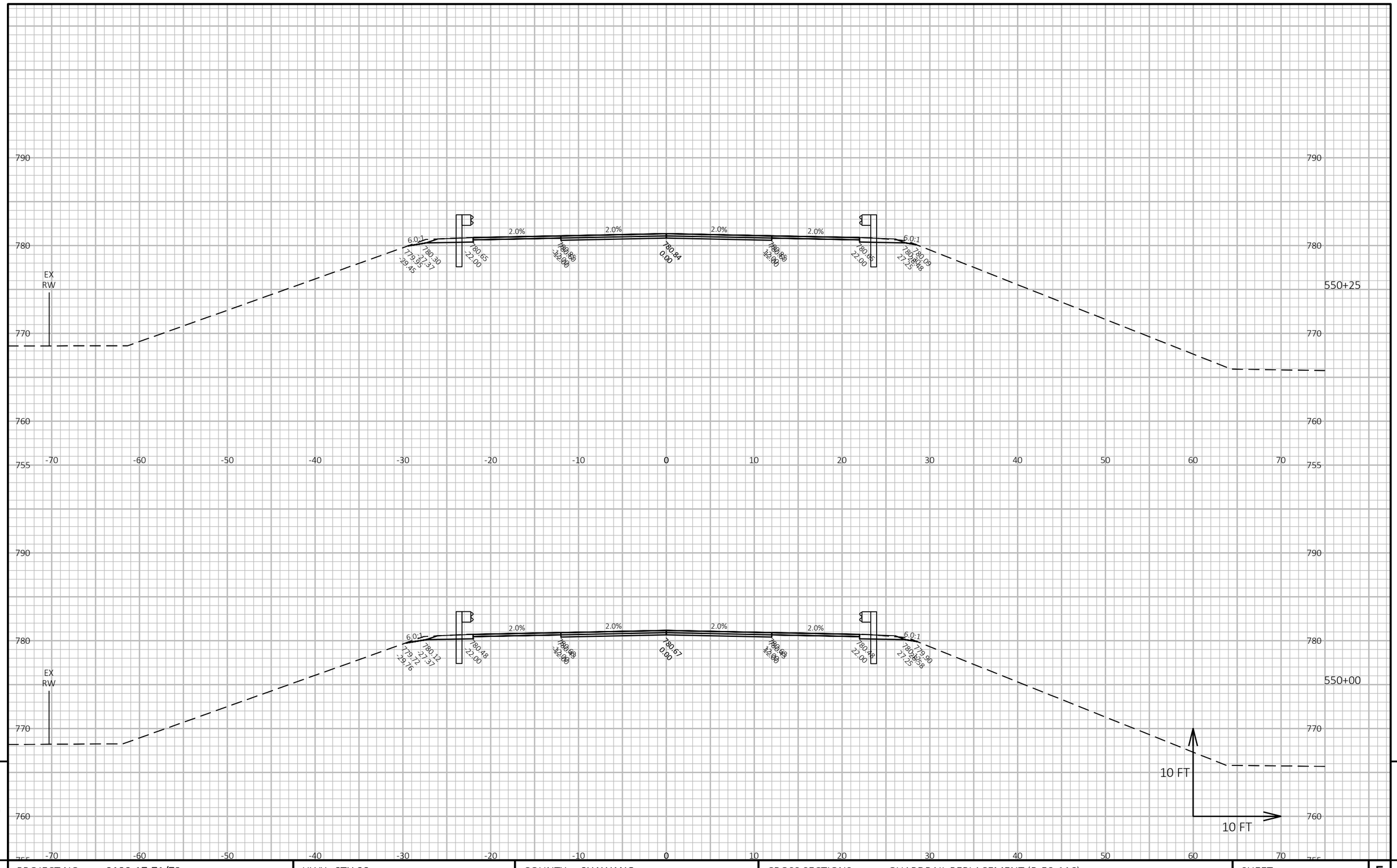
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 347	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090341-xs

PLOT DATE : 7/29/2025 2:08 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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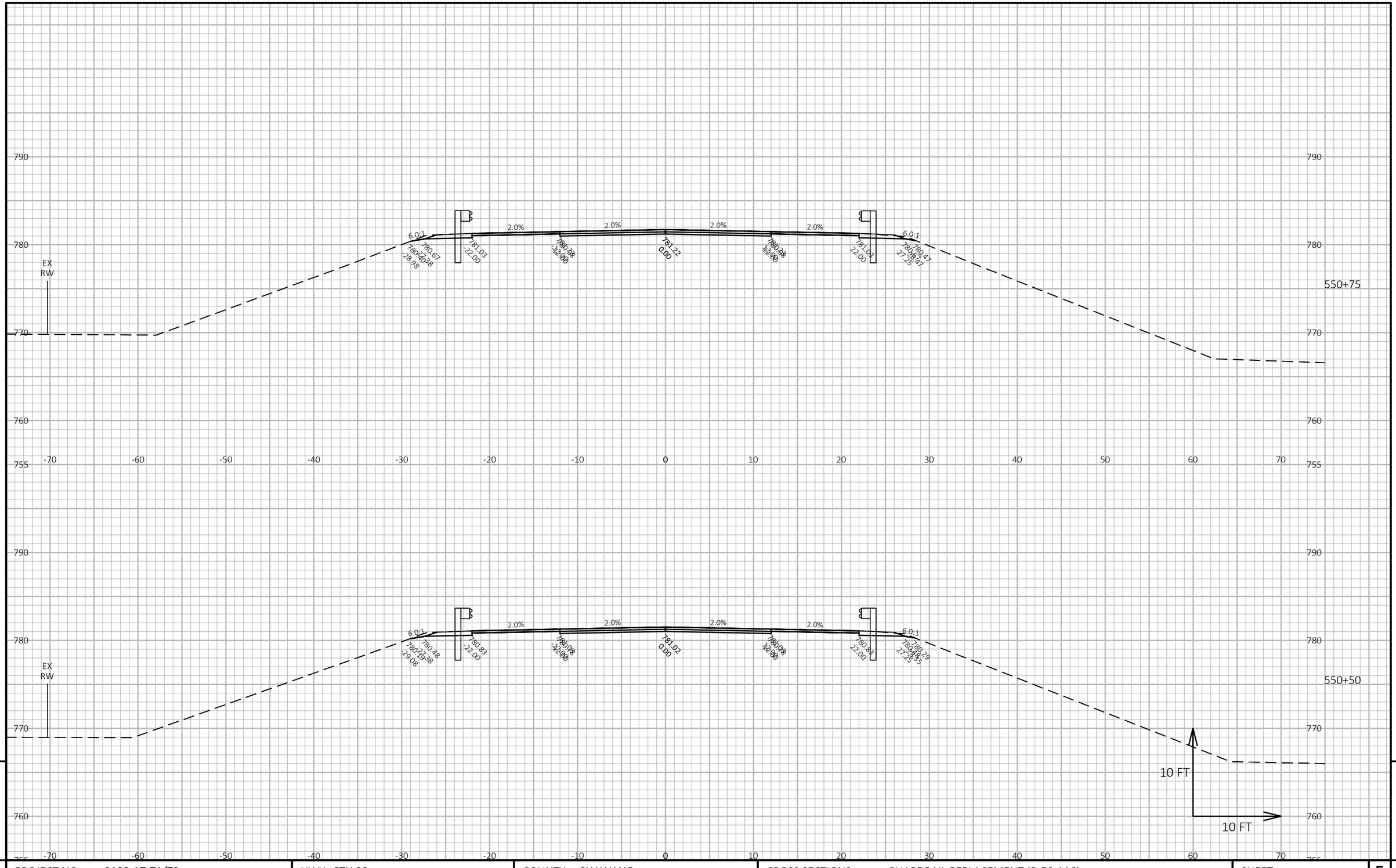
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 348	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090342-xs

PLOT DATE : 7/29/2025 2:09 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



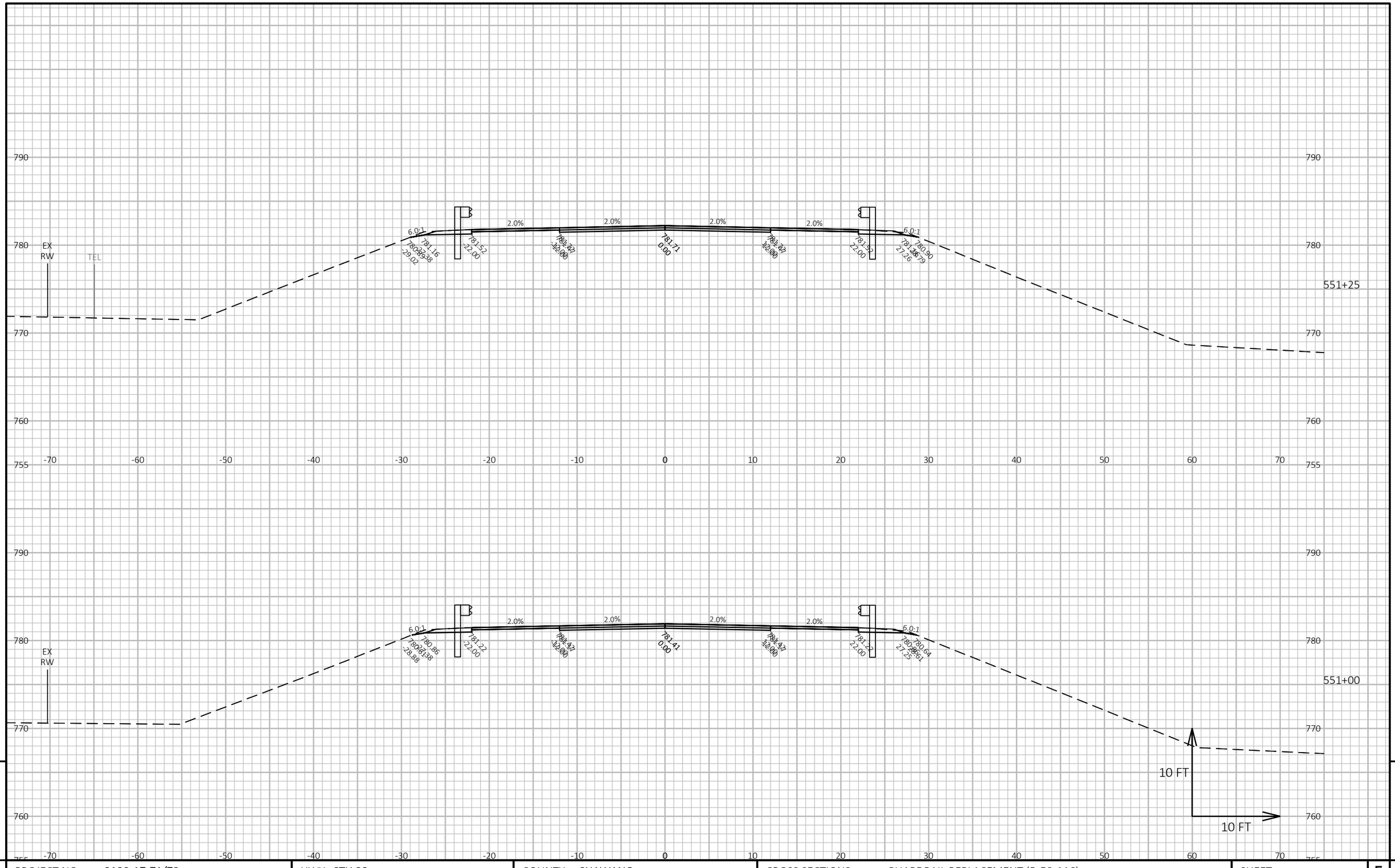
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 349	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090343-xs

PLOT DATE : 7/29/2025 2:10 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



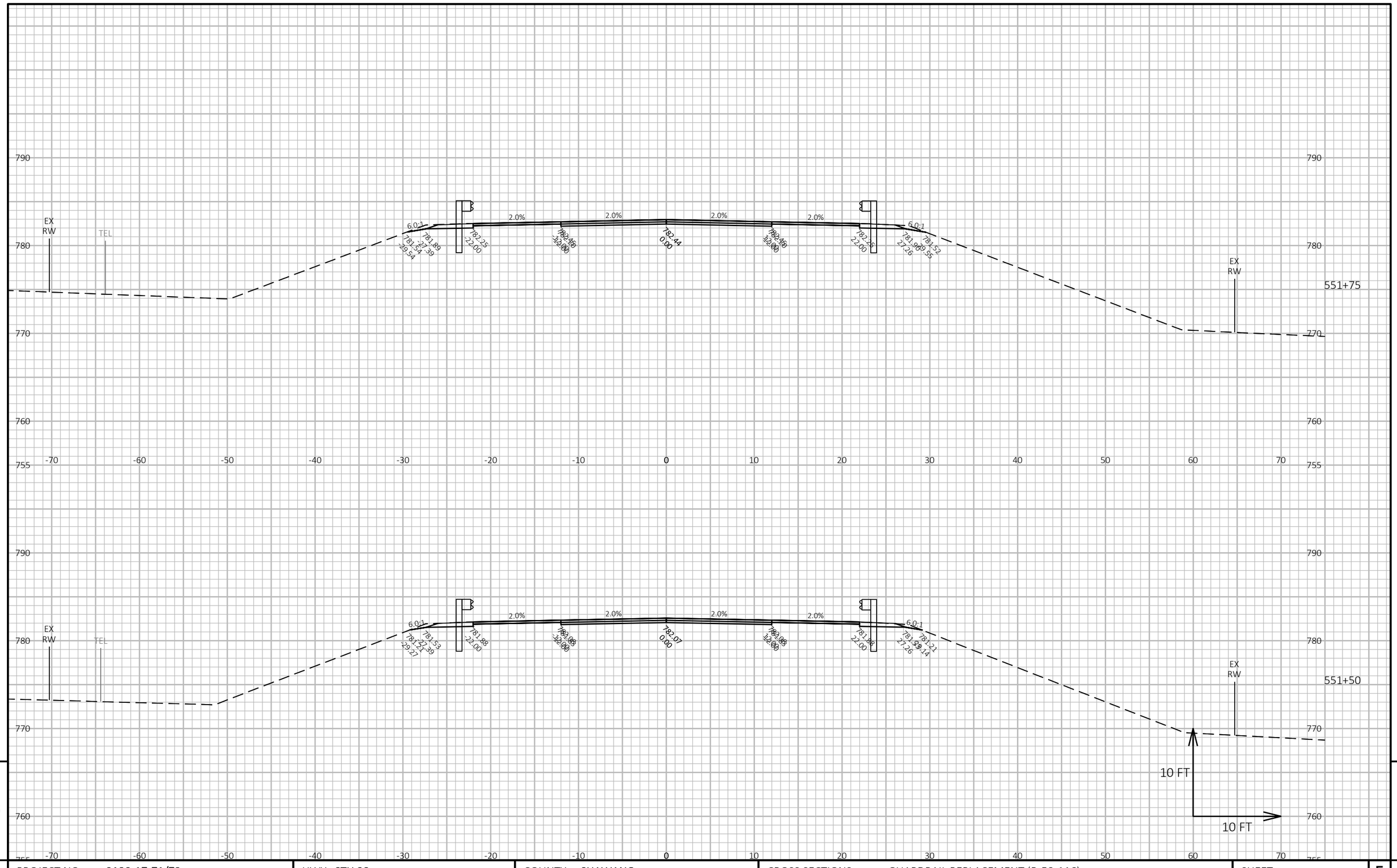
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 350	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090344-xs

PLOT DATE : 7/29/2025 2:11 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 351	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090345-xs

PLOT DATE : 7/29/2025 2:11 PM

PLOT BY : WILKE, CASSANDRA

PLOT NAME :

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

WISDOT/CADDS SHEET 49

POST #9

EX RW

TEL

552+29

782.29
30.26

782.87
21.97

783.24
22.00

783.43
0.00

783.15
-22.00

782.80
-21.39
-29.52

552+25

782.38
-29.78
21.26

783.45
22.00

783.34
0.00

783.15
-22.00

782.64
-22.00

782.28
-27.39
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782.83
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10 FT

10 FT

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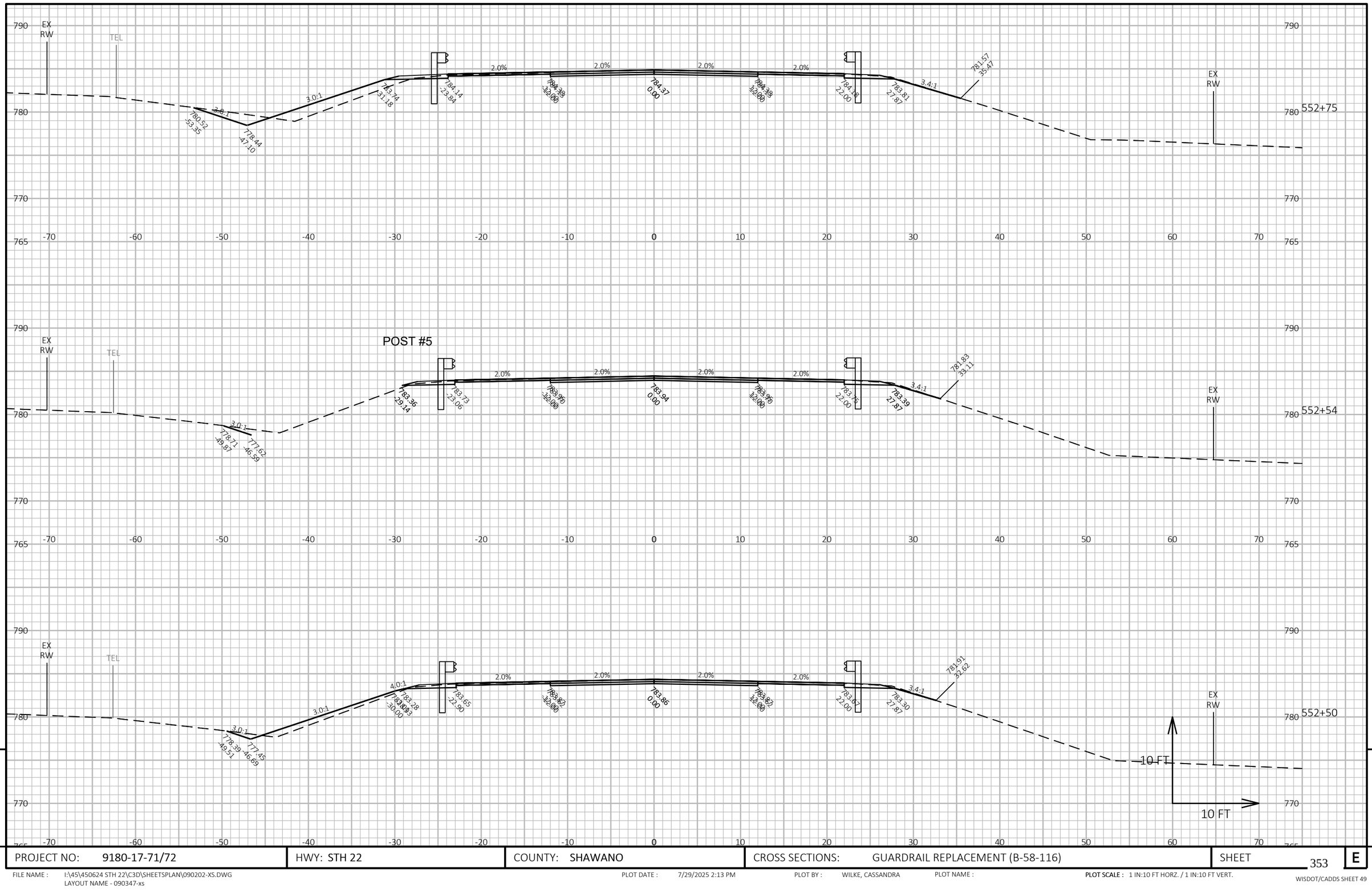
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 352	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090346-xs

PLOT DATE : 7/29/2025 2:12 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

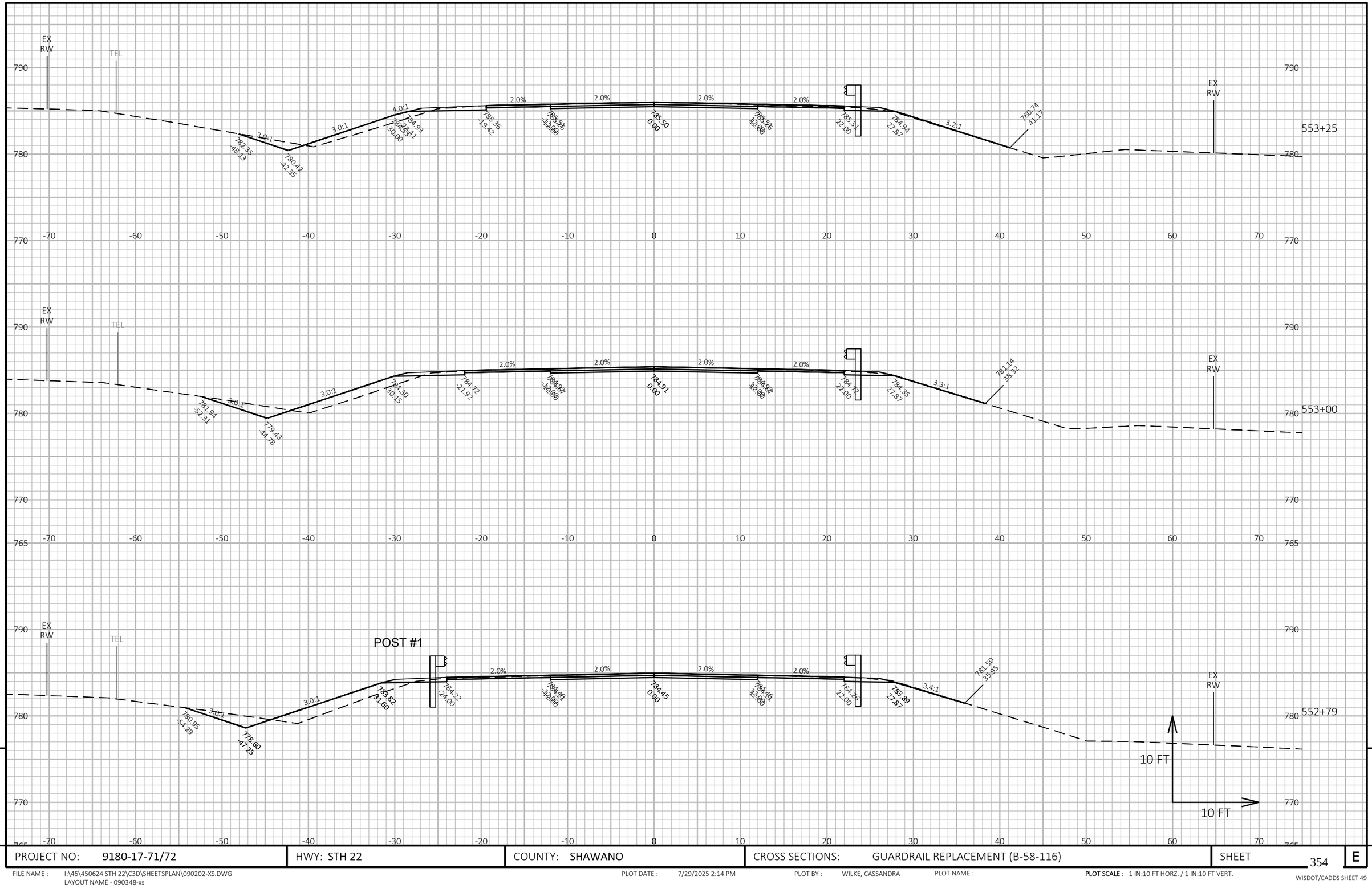


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 353	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090347-xs

PLOT DATE : 7/29/2025 2:13 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

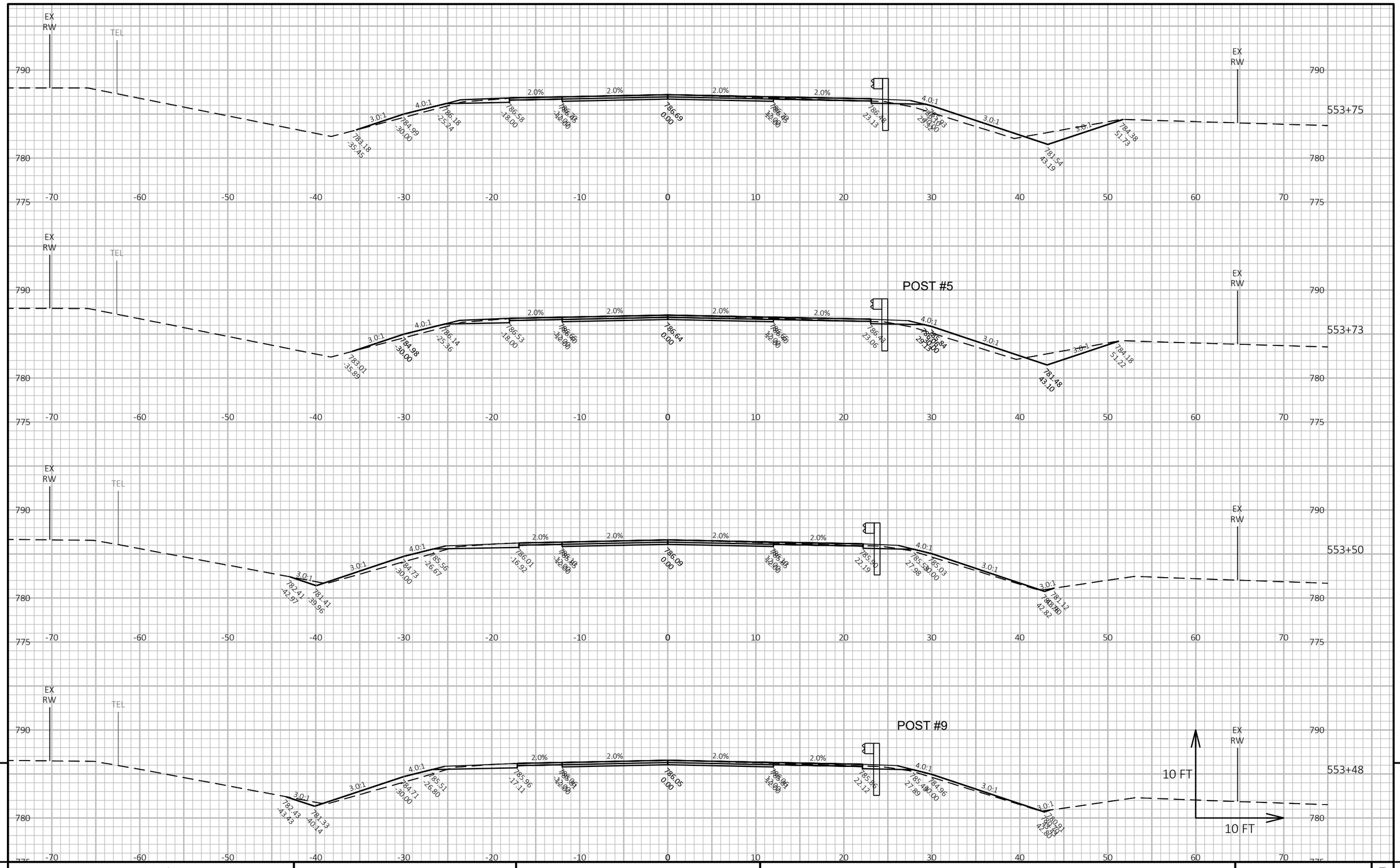


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 354 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090348-xs

PLOT DATE : 7/29/2025 2:14 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 355	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090349-xs

PLOT DATE : 7/29/2025 2:14 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

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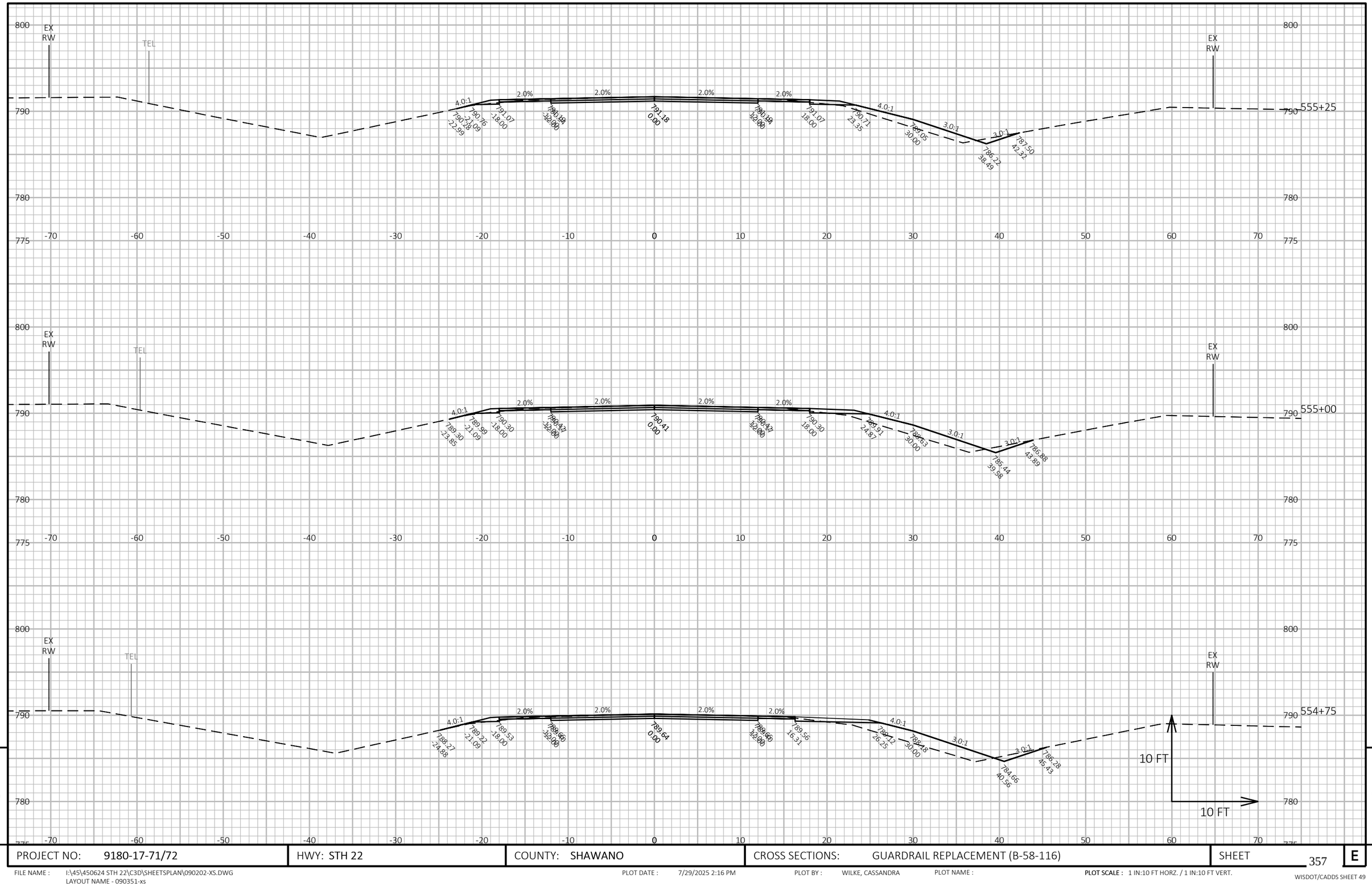
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 356	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090350-xs

PLOT DATE : 7/29/2025 2:15 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 357	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090351-xs

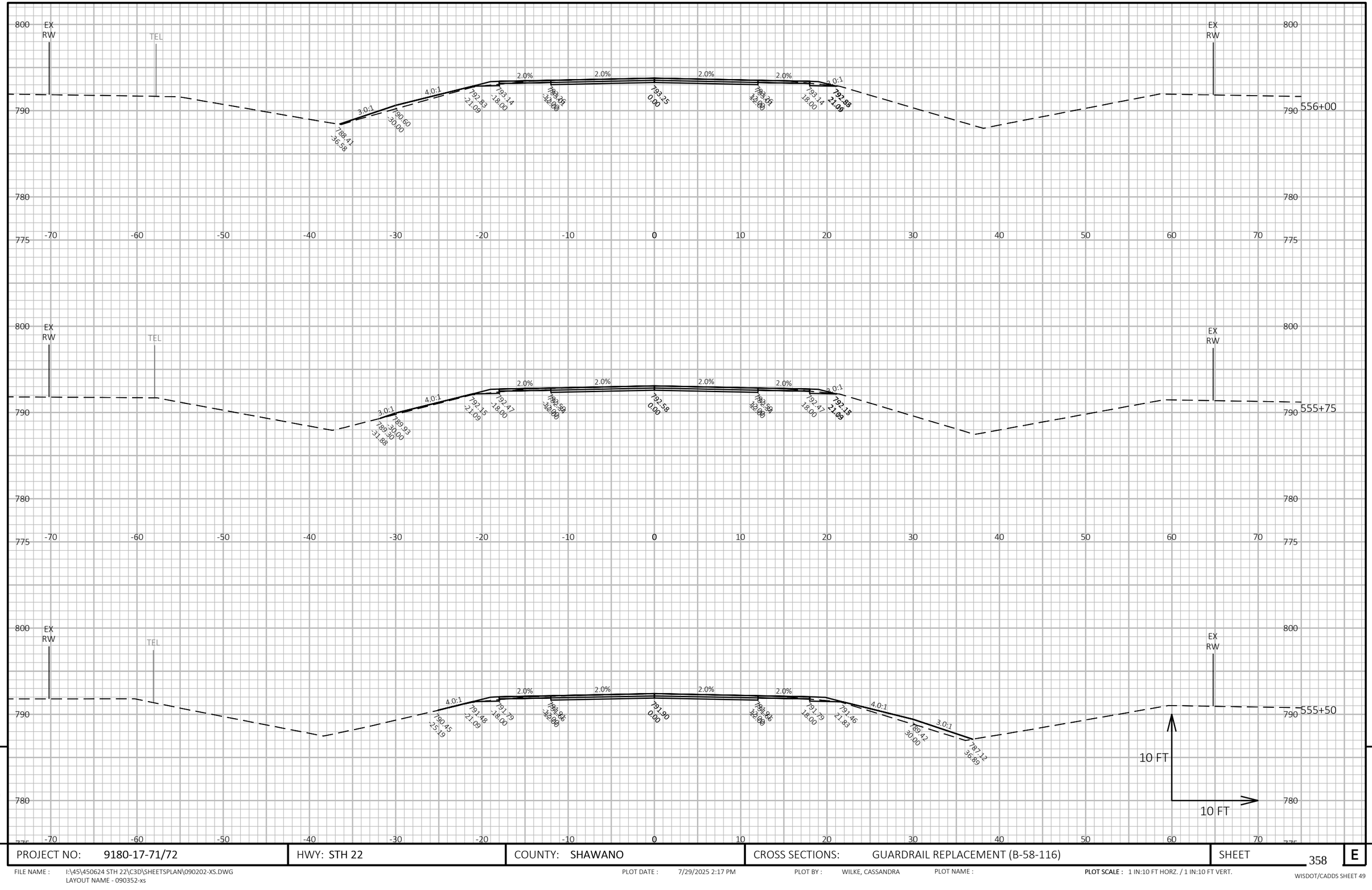
PLOT DATE : 7/29/2025 2:16 PM

PLOT BY : WILKE, CASSANDRA

PLOT NAME :

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

WISDOT/CADDS SHEET 49

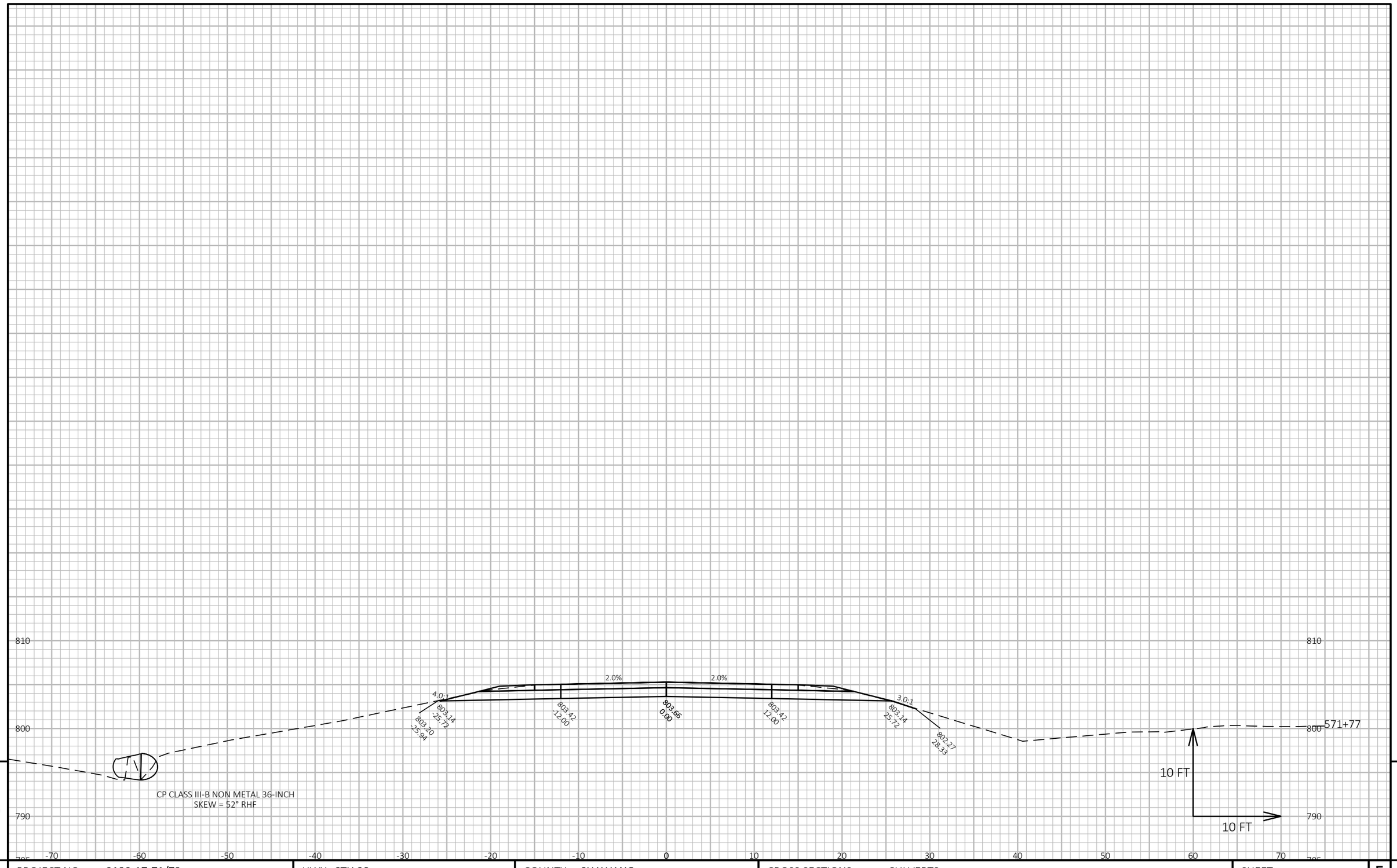


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: GUARDRAIL REPLACEMENT (B-58-116)	SHEET 358 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090352-xs

PLOT DATE : 7/29/2025 2:17 PM PLOT BY : WILKE, CASSANDRA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

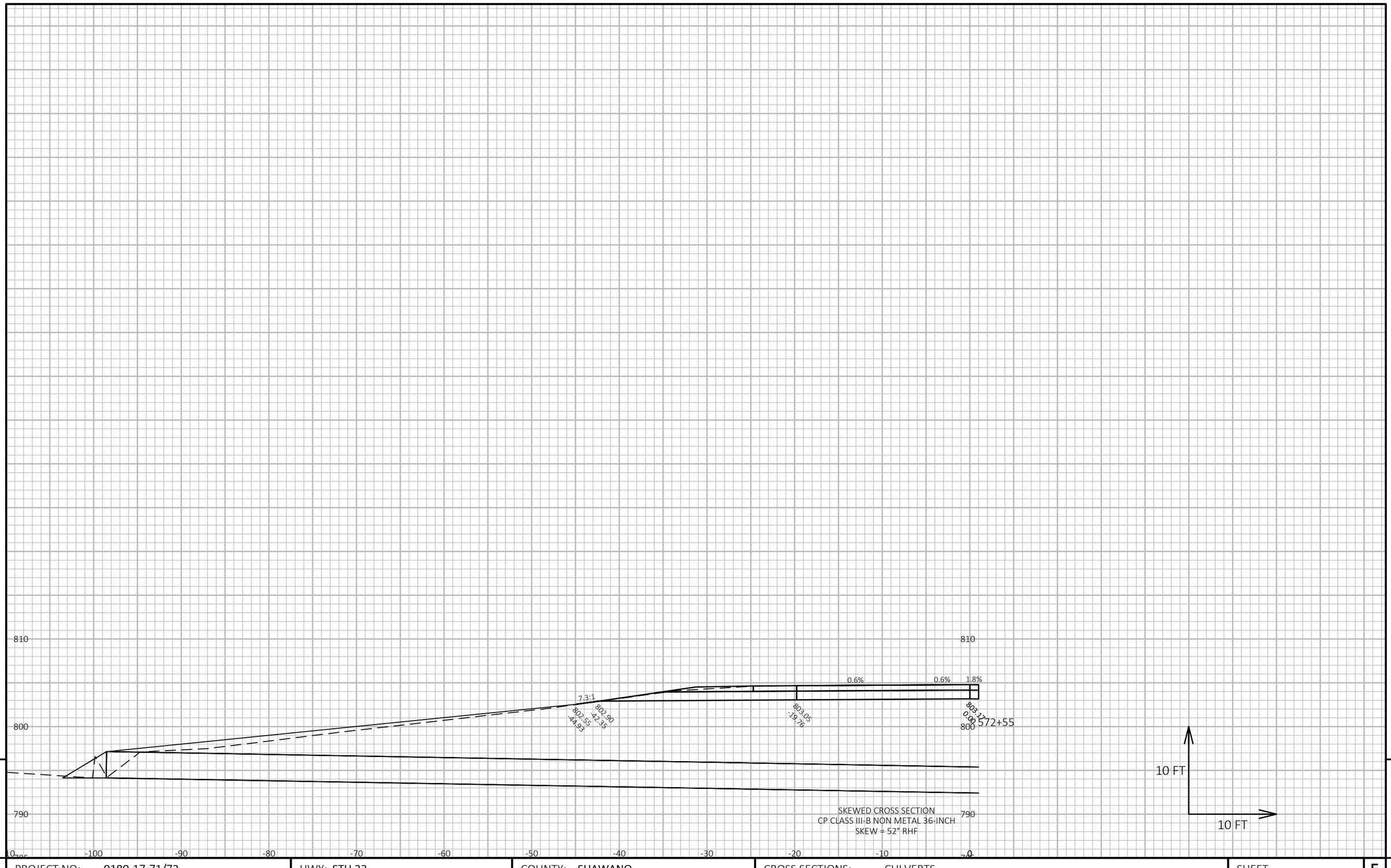


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 359	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090354-xs

PLOT DATE : 5/16/2025 12:03 PM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

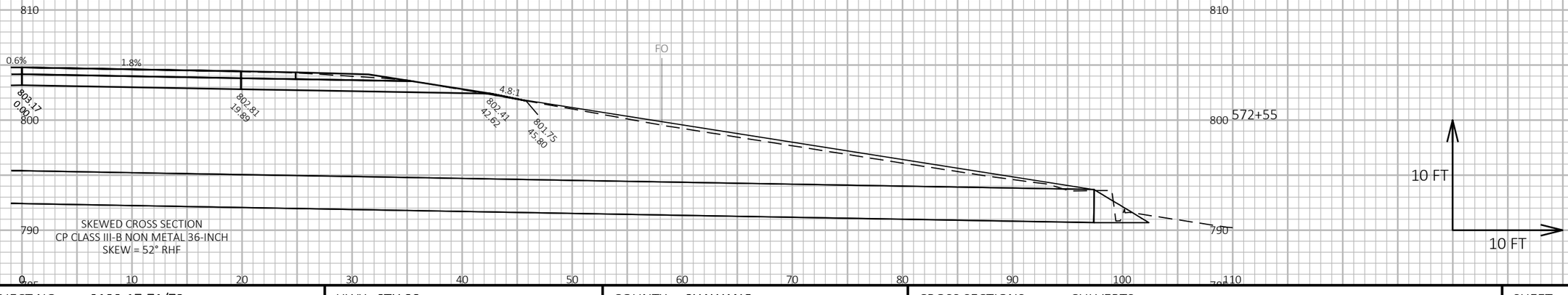


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 360	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090355-xs

PLOT DATE : 5/16/2025 12:04 PM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



SKEWED CROSS SECTION
CP CLASS III-B NON METAL 36-INCH
SKEW = 52° RHF

9

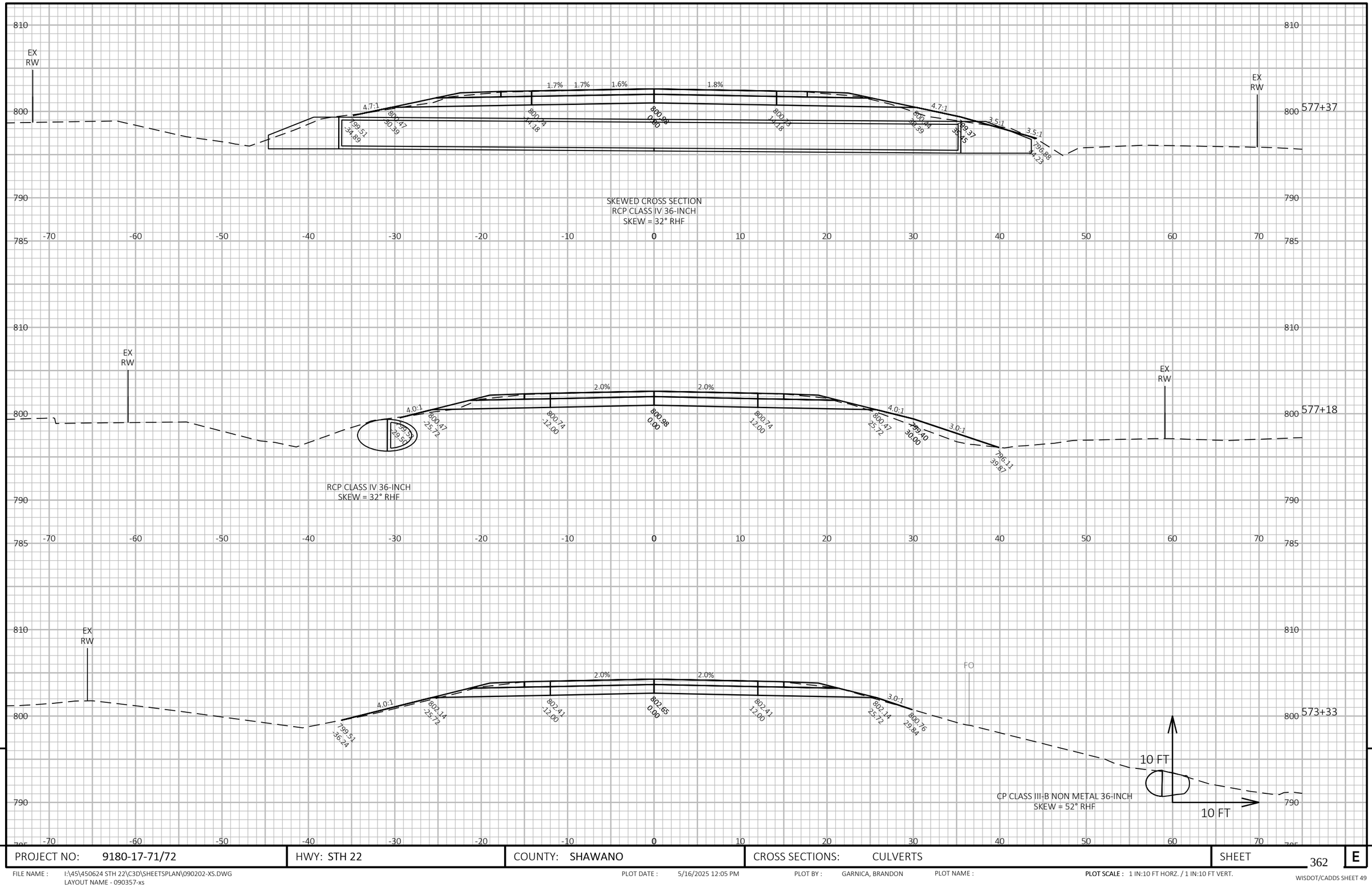
9

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 361	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090356-xs

PLOT DATE : 5/16/2025 12:05 PM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 362	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090357-xs

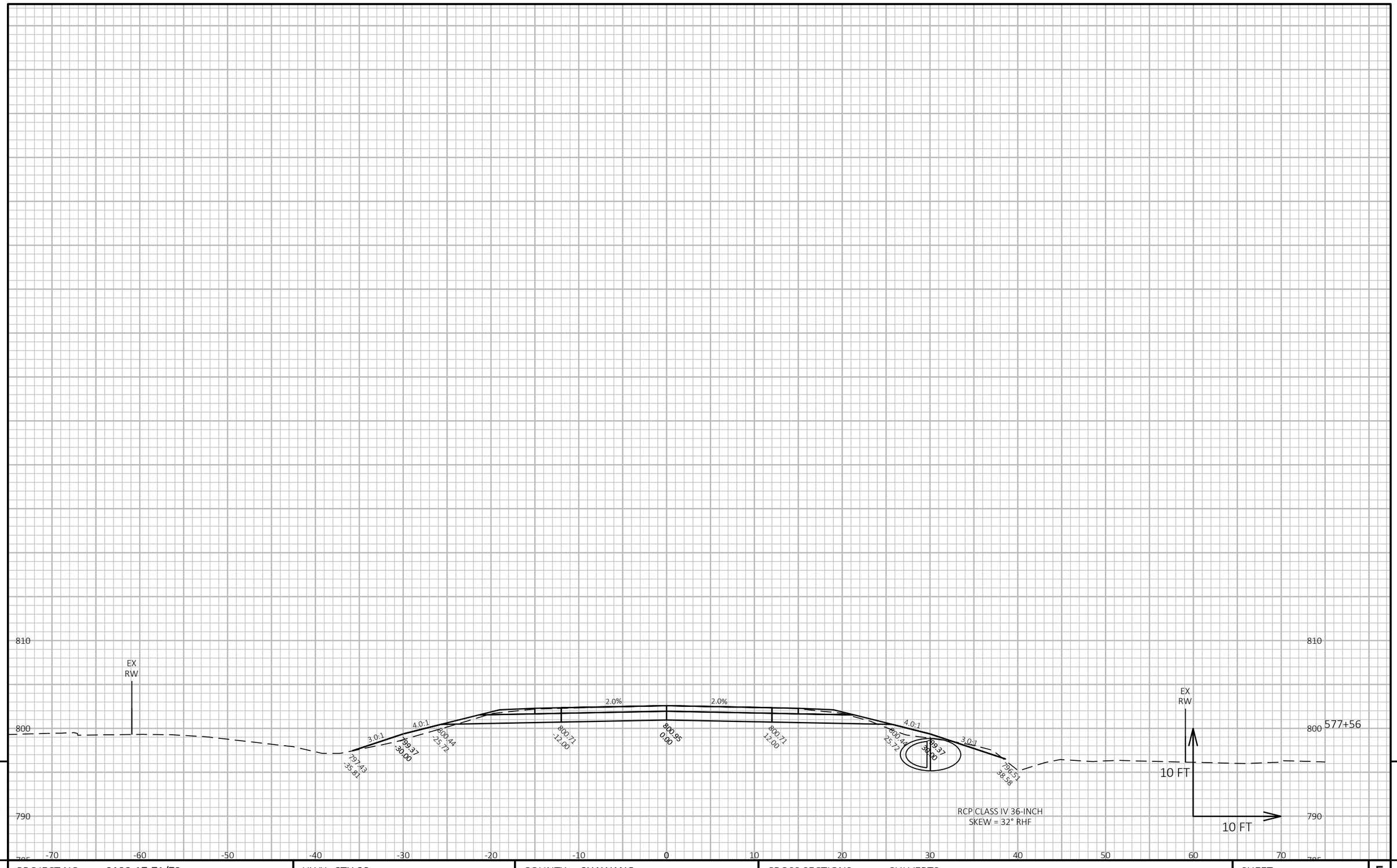
PLOT DATE : 5/16/2025 12:05 PM

PLOT BY : GARNICA, BRANDON

PLOT NAME :

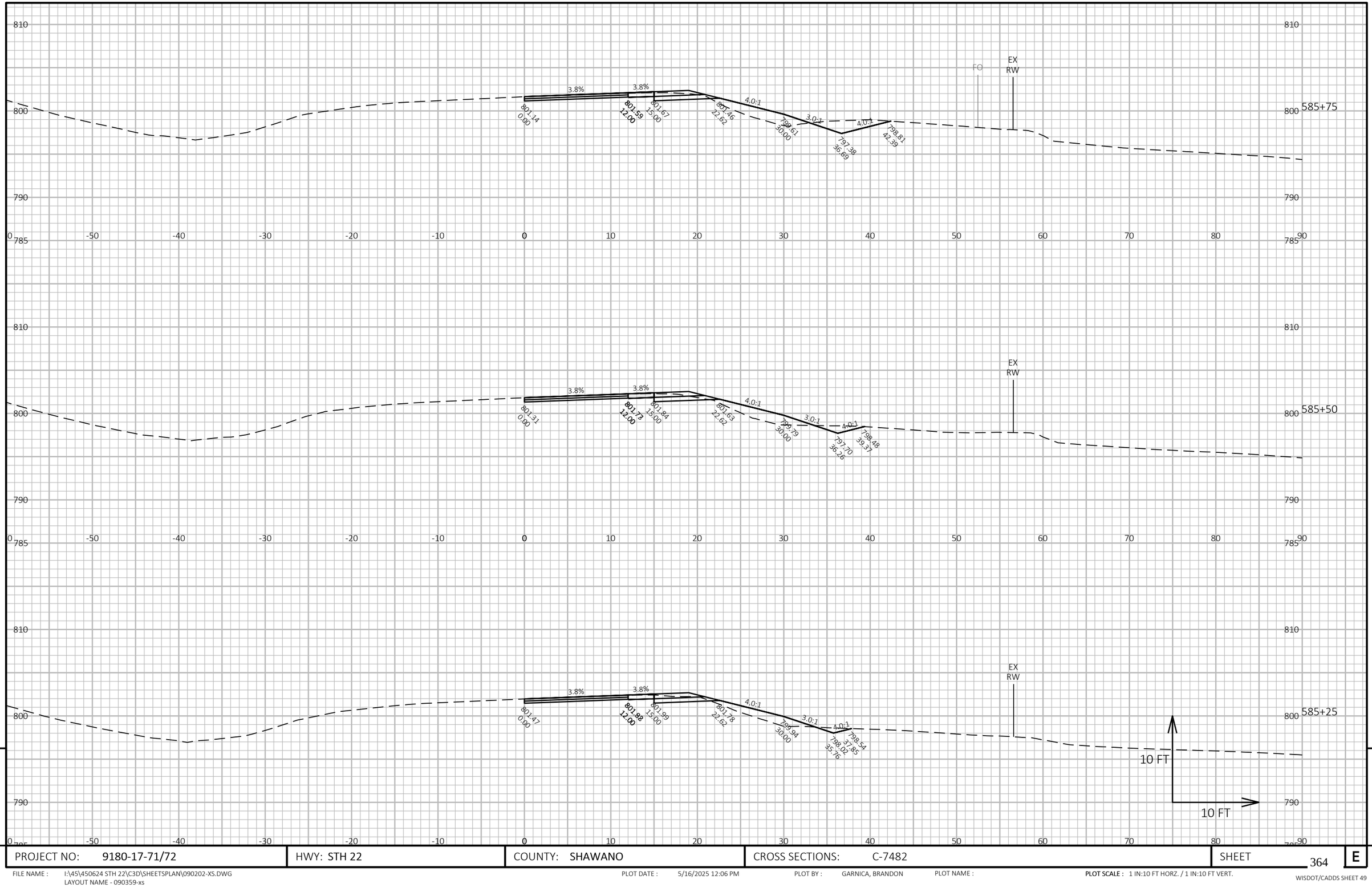
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: CULVERTS	SHEET 363	E

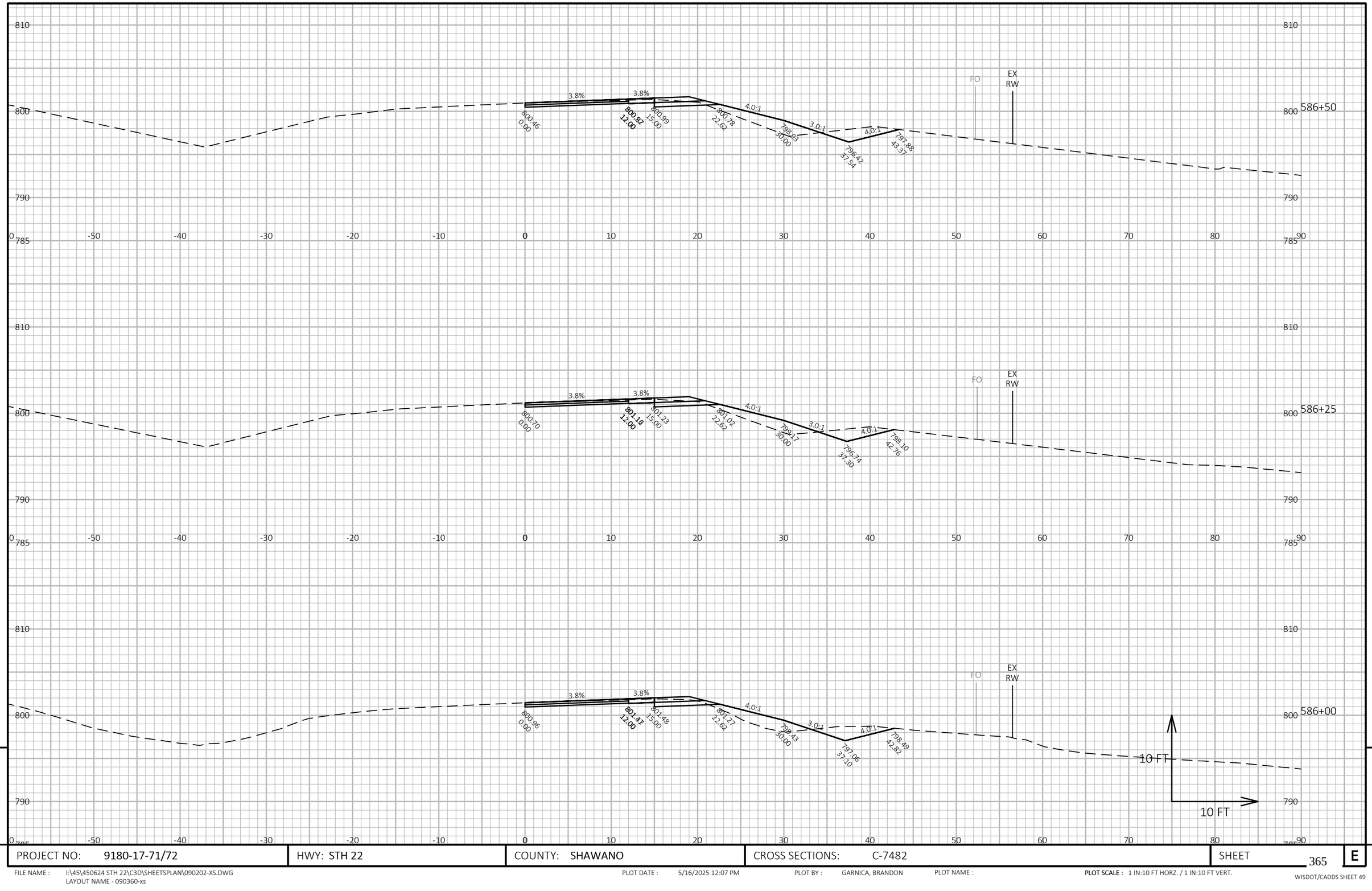


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: C-7482	SHEET 364	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090359-xs

PLOT DATE : 5/16/2025 12:06 PM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

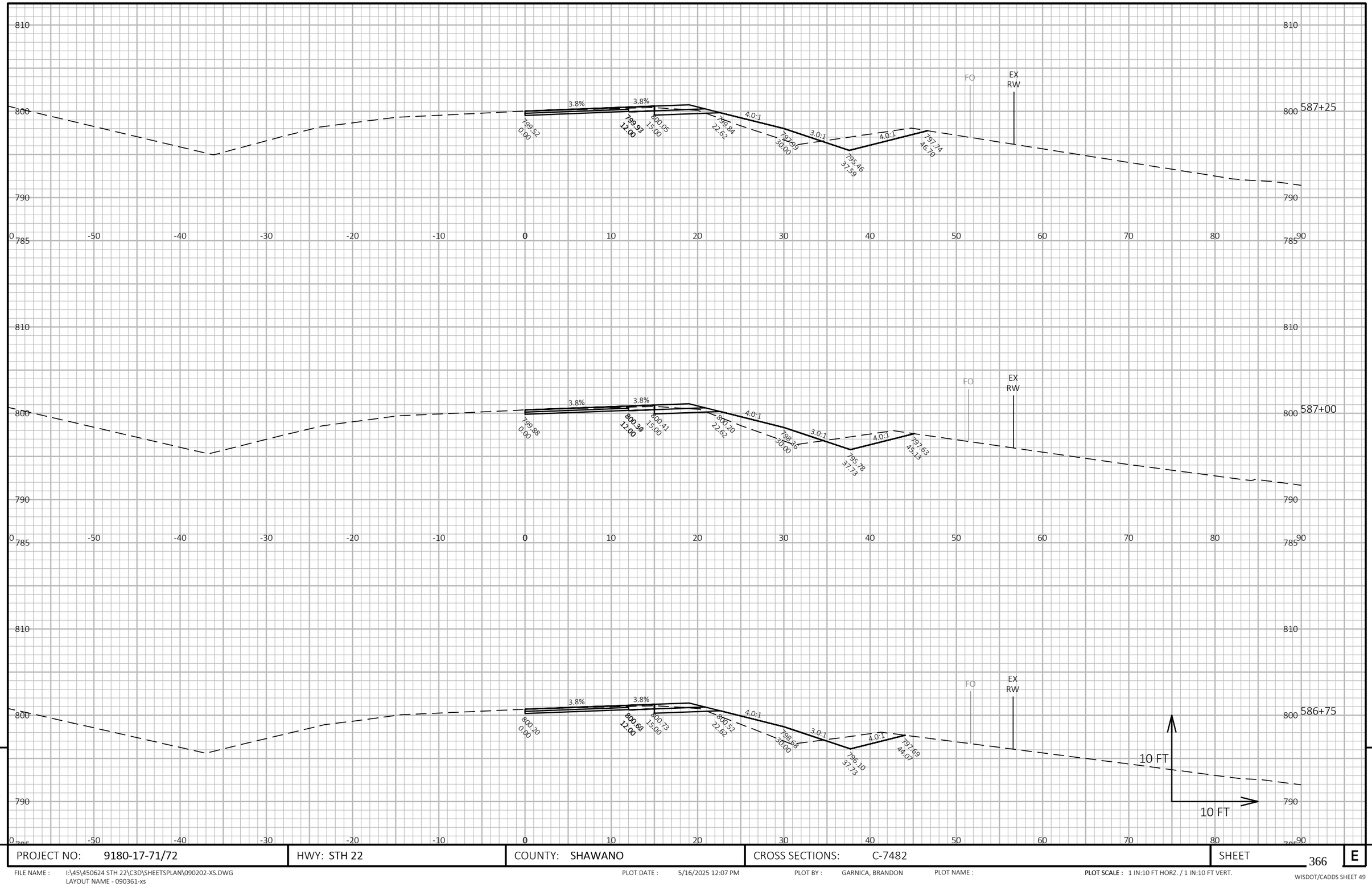
WISDOT/CADDS SHEET 49



PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: C-7482	SHEET 365	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090360-xs

PLOT DATE : 5/16/2025 12:07 PM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

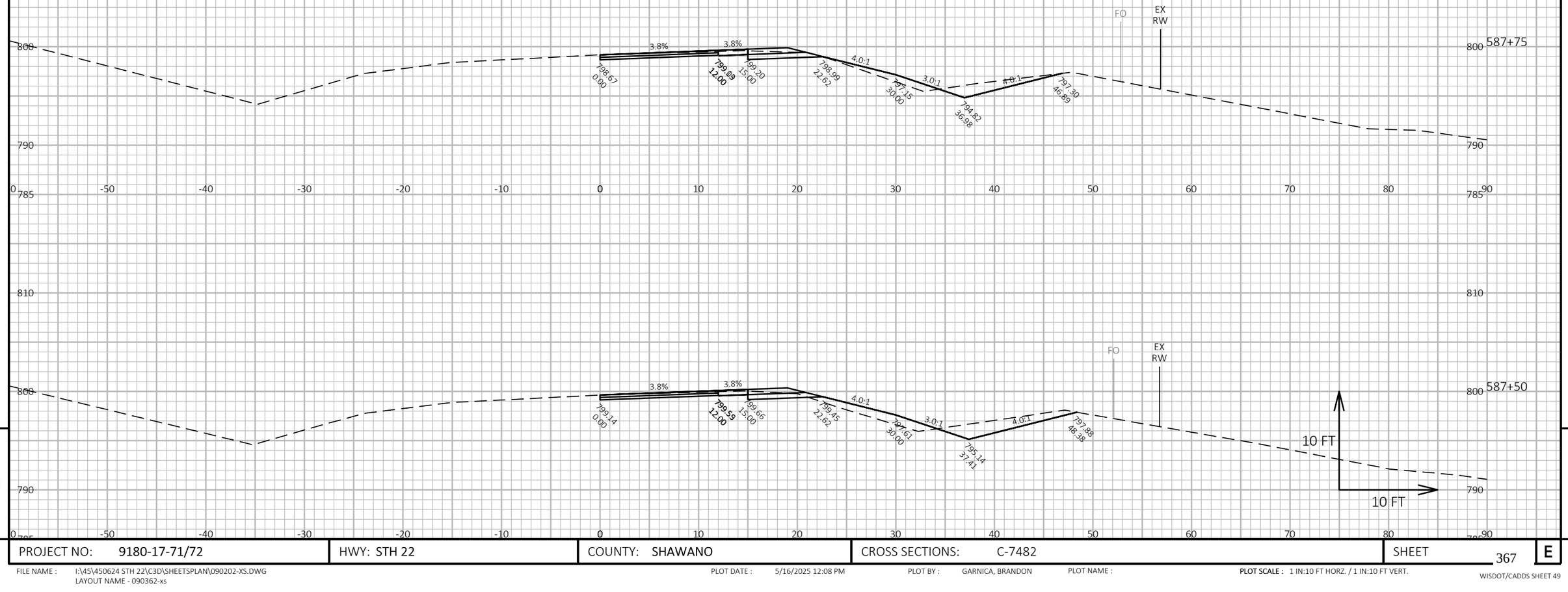


PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: C-7482	SHEET 366	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090361-xs

PLOT DATE : 5/16/2025 12:07 PM PLOT BY : GARNICA, BRANDON PLOT NAME :

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



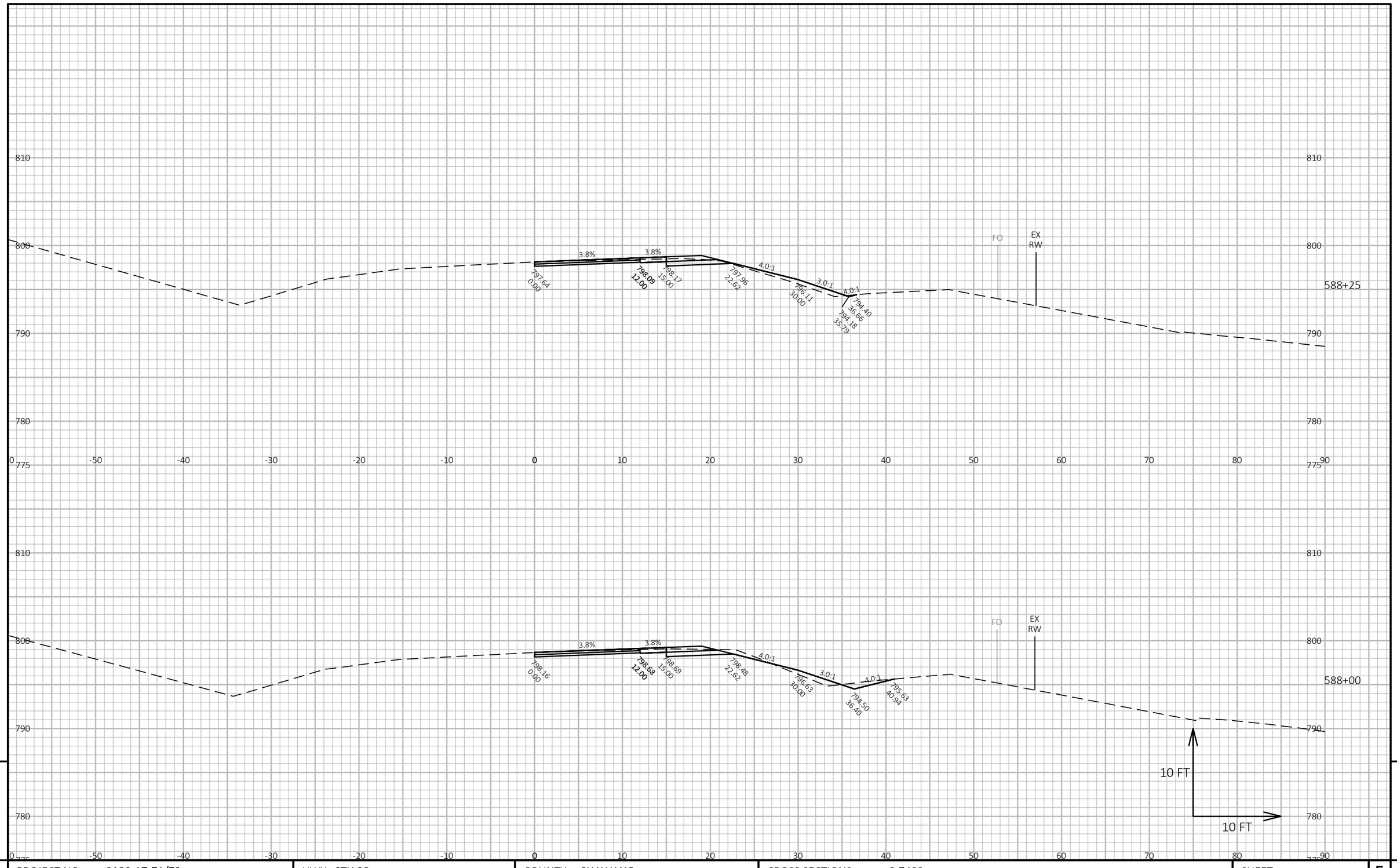
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: C-7482	SHEET 367	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090362-xs

PLOT DATE : 5/16/2025 12:08 PM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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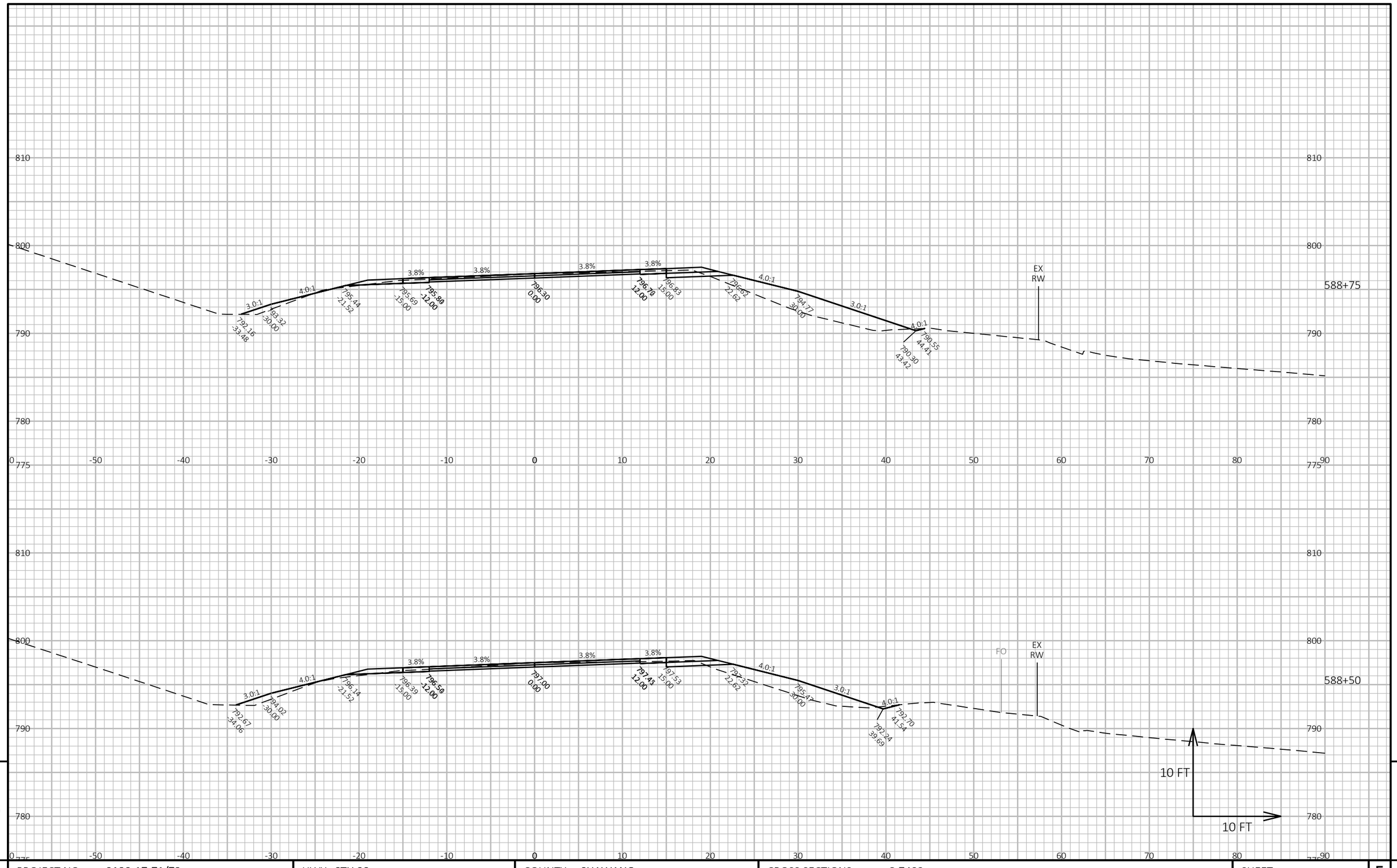
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: C-7482	SHEET 368	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090363-xs

PLOT DATE : 5/16/2025 12:09 PM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: C-7482	SHEET 369	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090364-xs

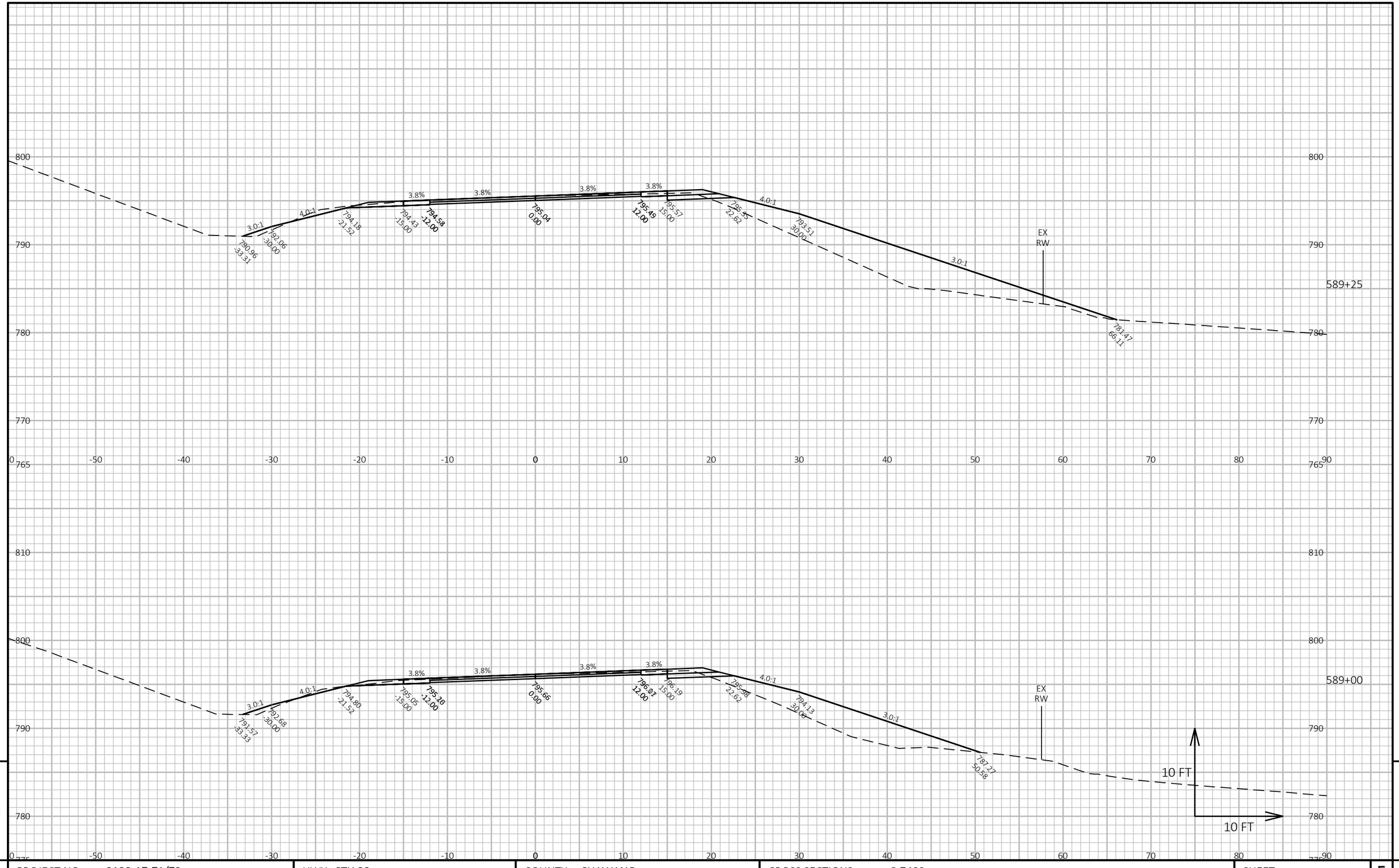
PLOT DATE : 5/16/2025 12:09 PM

PLOT BY : GARNICA, BRANDON

PLOT NAME :

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

WISDOT/CADDS SHEET 49



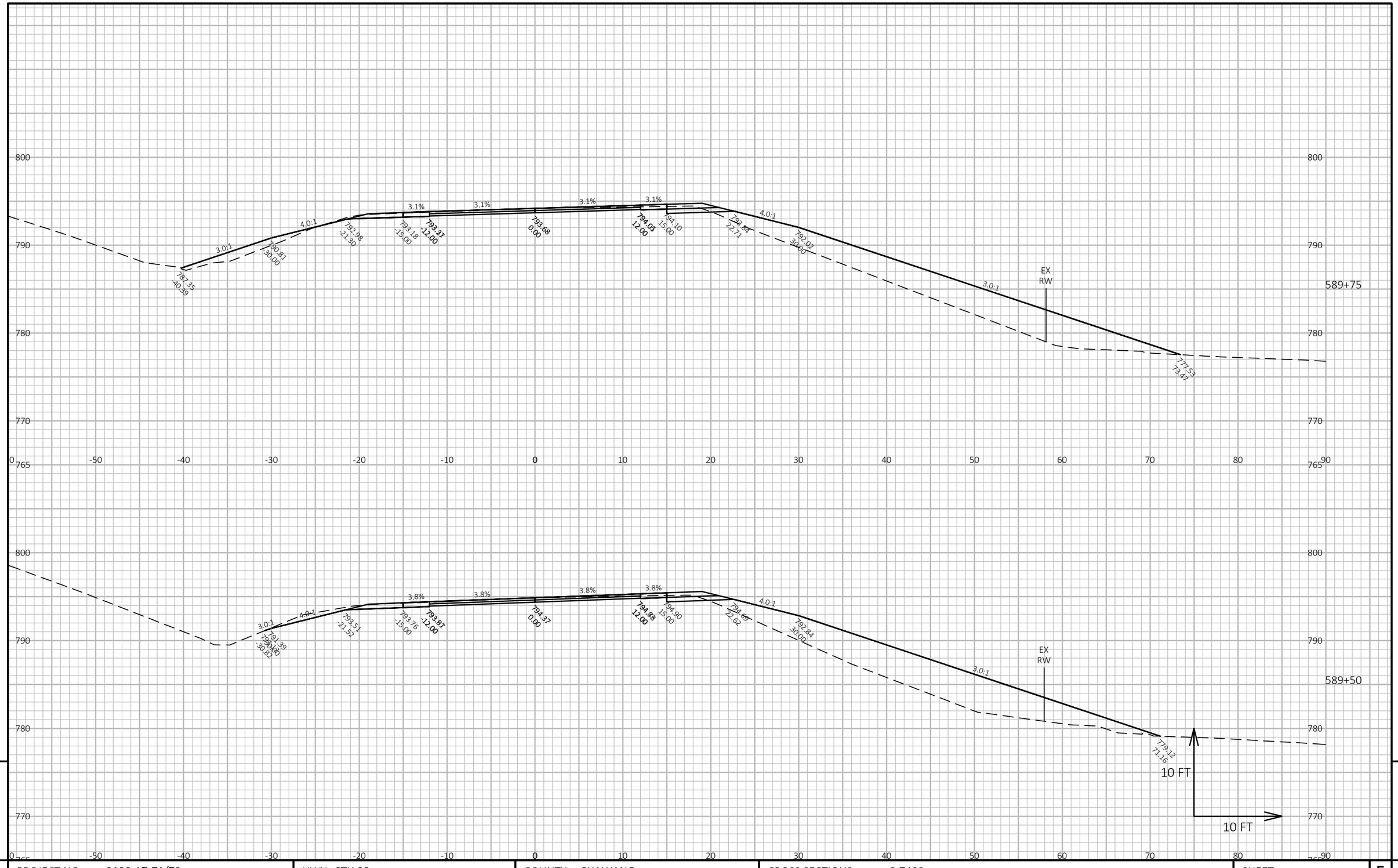
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: C-7482	SHEET 370	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090365-xs

PLOT DATE : 5/16/2025 12:10 PM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



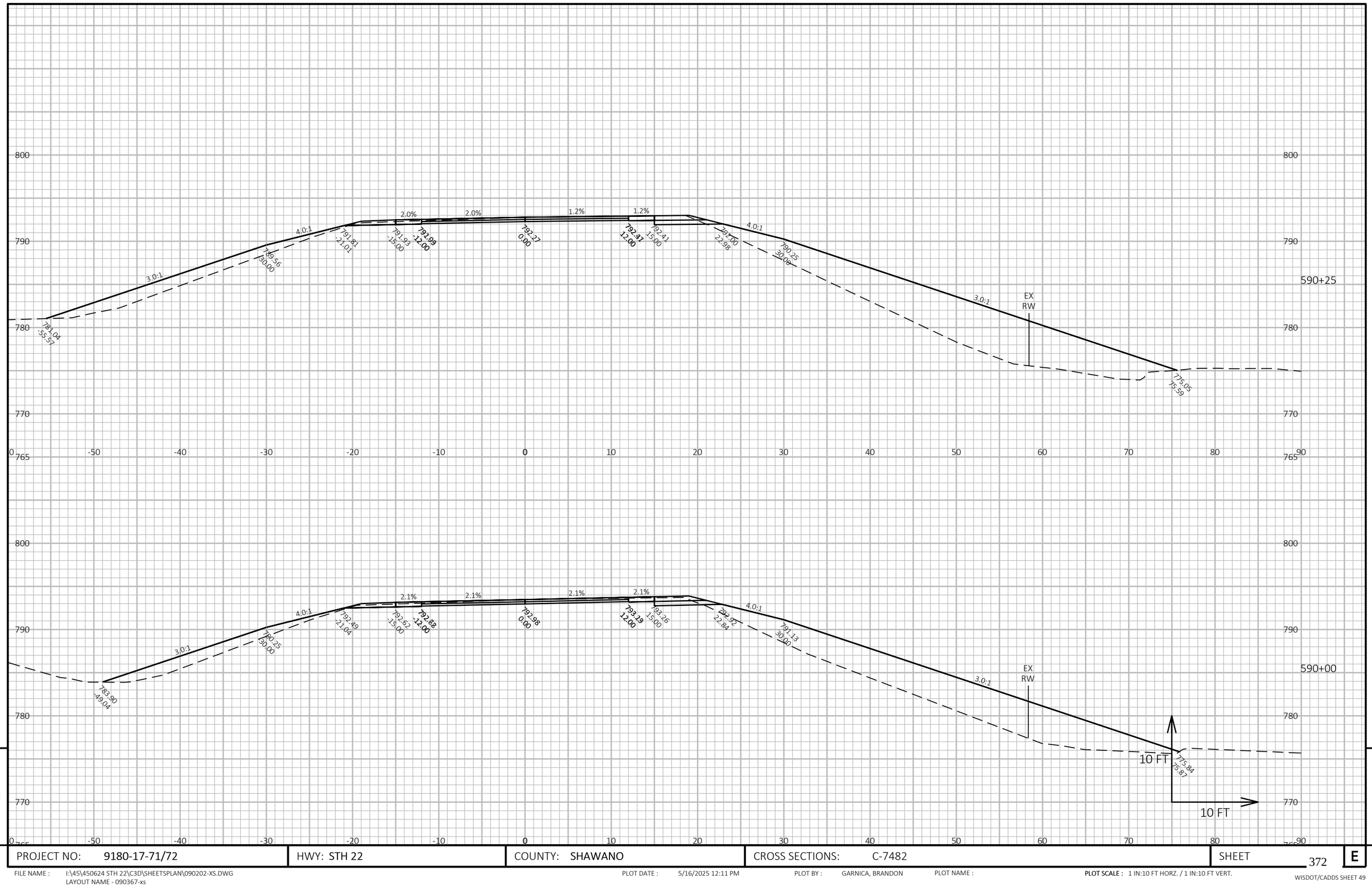
9 9

PROJECT NO: 9180-17-71/72 | HWY: STH 22 | COUNTY: SHAWANO | CROSS SECTIONS: C-7482 | SHEET 371 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090366-xs

PLOT DATE : 5/16/2025 12:10 PM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



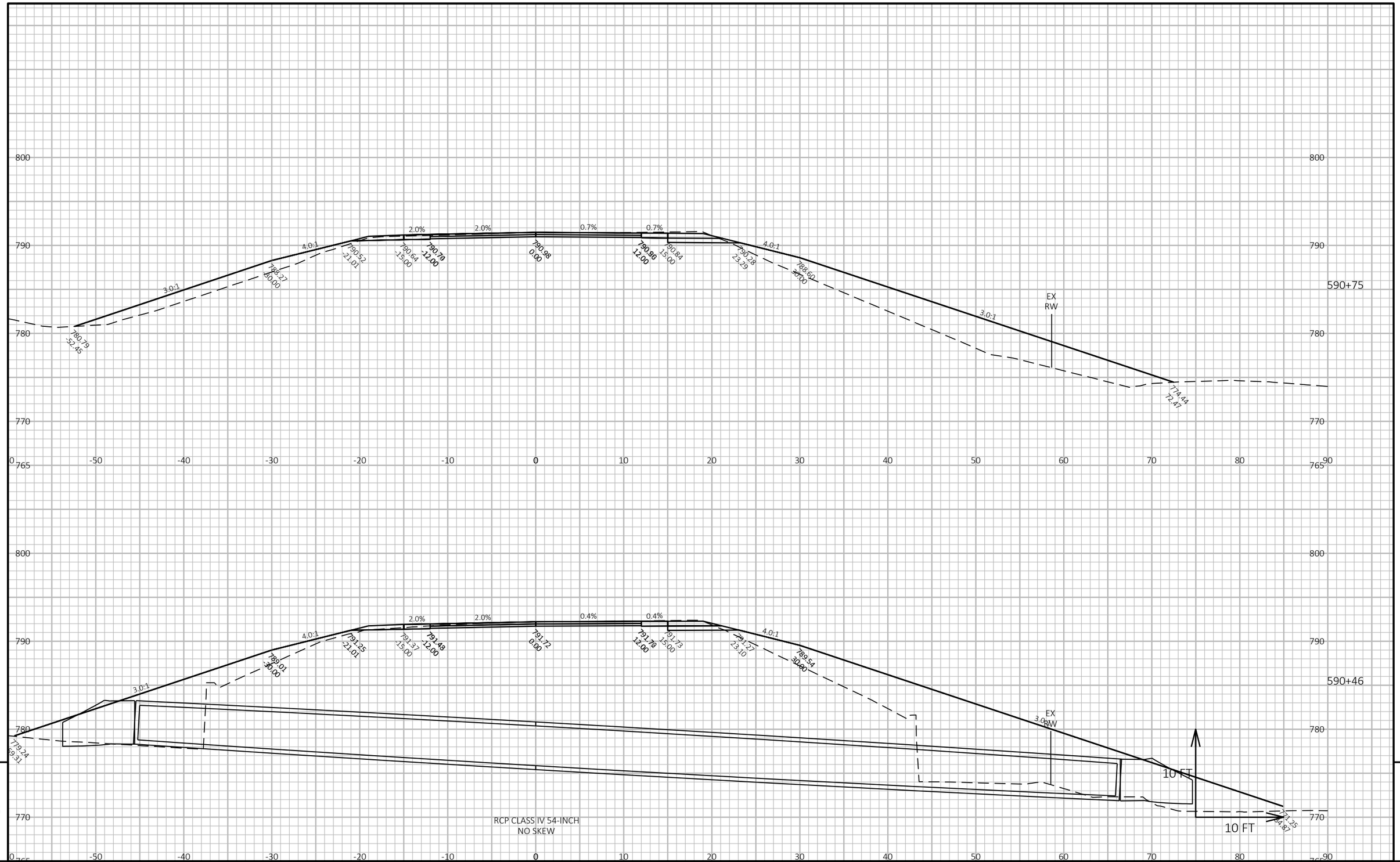
PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: C-7482	SHEET 372 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090367-xs

PLOT DATE : 5/16/2025 12:11 PM PLOT BY : GARNICA, BRANDON PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

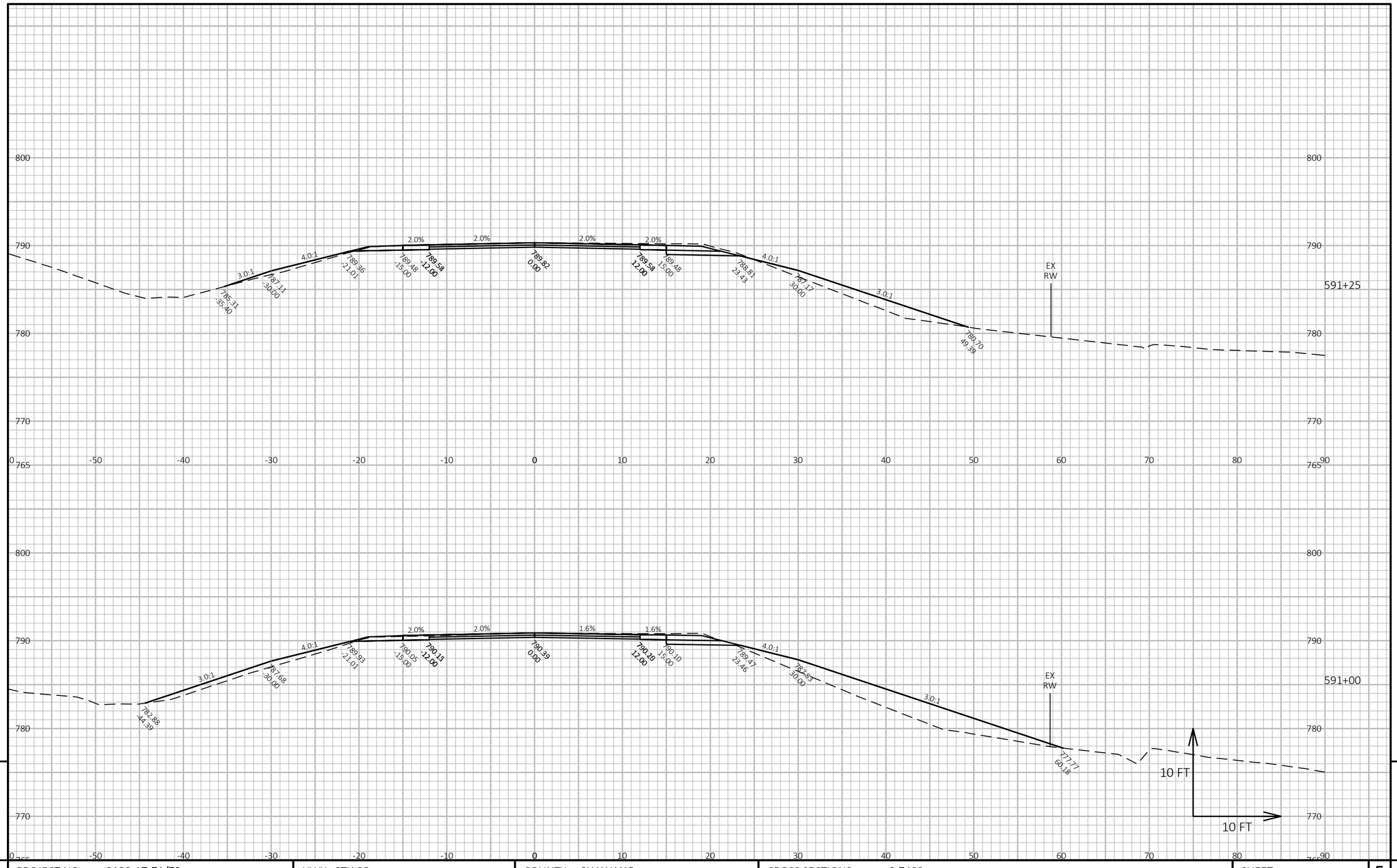
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PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: C-7482	SHEET 373	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090368-xs

PLOT DATE : 5/16/2025 12:12 PM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

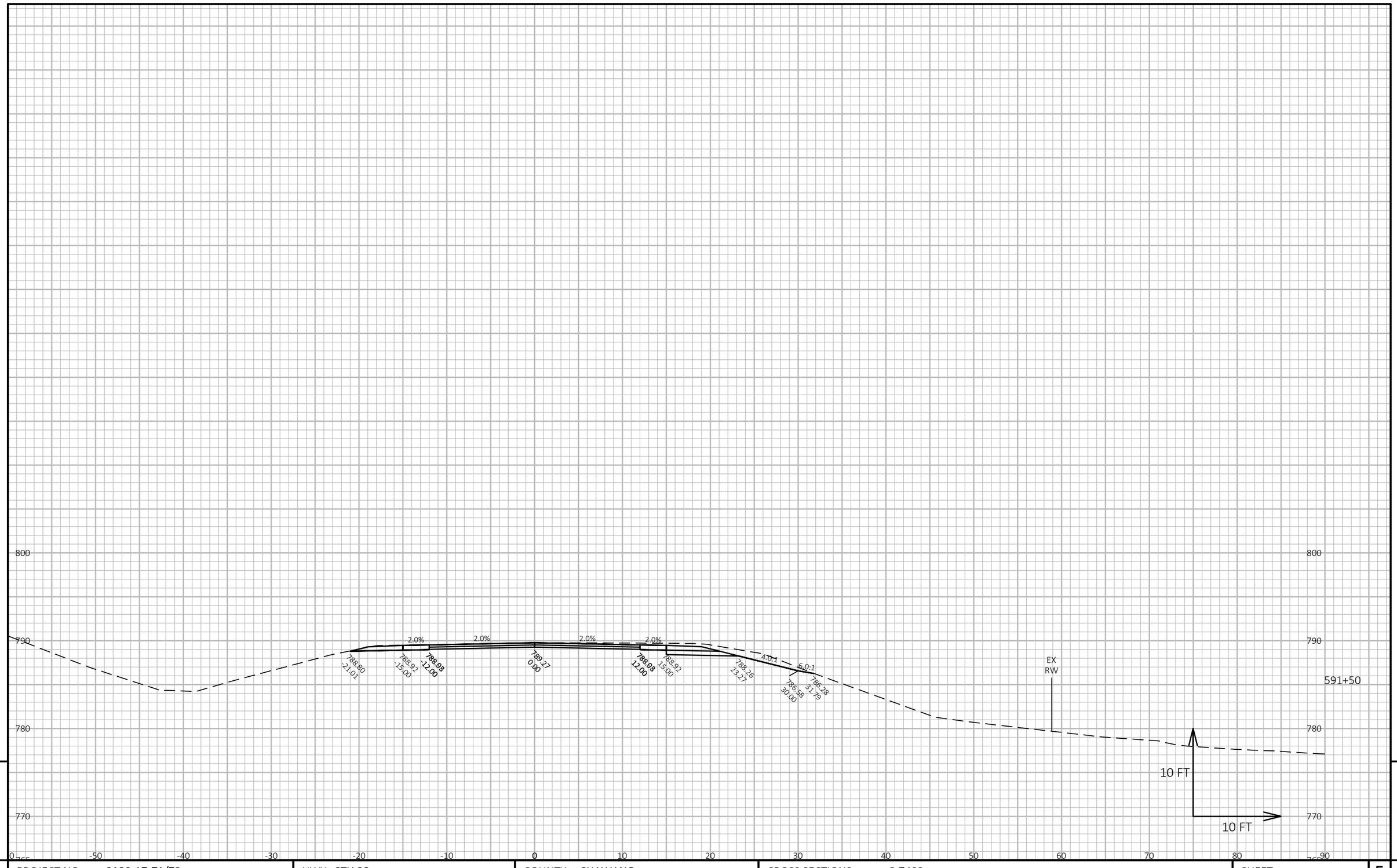


9	PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: C-7482	SHEET 374 E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090369-xs

PLOT DATE : 5/16/2025 12:12 PM PLOT BY : GARNICA, BRANDON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 9180-17-71/72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: C-7482	SHEET 375	E

FILE NAME : I:\45\450624 STH 22\C3D\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 090370-xs

PLOT DATE : 5/16/2025 12:13 PM PLOT BY : GARNICA, BRANDON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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