EAU

Jan 12, 2021

PROJECT ID: 7130-00-73

WITH: 7130-00-83

COUNTY: TREMPEALEAU

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 = 302

DESIGN DESIGNATION

A.A.D.T.	2022	=	6,200
A.A.D.T.	2042	=	7,700
D.H.V.		=	N/A
D.D.		=	60/40
T.		=	19.3%
DESIGN SPEED		=	55 MPH
ESALS		=	1,950,000

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7130-00-73	WISC 2021106	1
7130-00-83	WISC 2021107	1

CENTERVILLE - INDEPENDENCE

STH 35 TO SWENSON LANE

STH 93

TREMPEALEAU

STATE PROJECT NUMBER

7130-00-73

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STH 35 TO SWENSON LANE

STH 93

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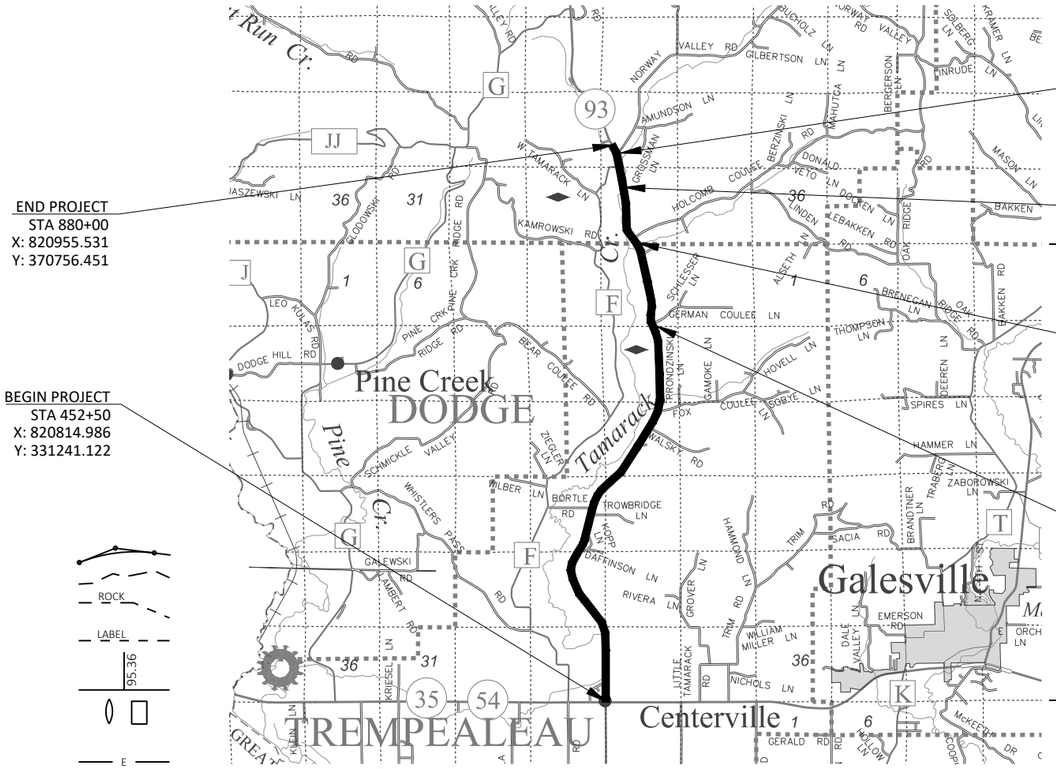

NET EXCEPTION TO CL LENGTH
STA 866+28 - STA 866+69
STRUCTURE B-61-111

END PROJECT
STA 880+00
X: 820955.531
Y: 370756.451

NET EXCEPTION TO CL LENGTH
STA 842+39 - STA 843+39
STRUCTURE B-61-110

NET EXCEPTION TO CL LENGTH
STA 798+41 - STA 799+01
STRUCTURE B-61-109

BEGIN PROJECT
STA 452+50
X: 820814.986
Y: 331241.122

NET EXCEPTION TO CL LENGTH
STA 741+15 - STA 741+46
STRUCTURE B-61-113

LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 8.2 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), TREMPEALEAU COUNTY NAD83 (1991), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (1991). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	ANDREW UEHLING
Project Manager	ADAM HETRICK
Regional Examiner	TOU YANG
Regional Supervisor	DAVID KOEPP

APPROVED FOR THE DEPARTMENT

DATE: 09/08/2020 Adam Hetrick (Signature)

E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\010101-TI.DWG

PLOT DATE : 9/4/2020 10:53 AM

PLOT BY : UEHLING, ANDREW E

PLOT NAME :

GENERAL NOTES

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO UTILITIES THAT HAVE FACILITIES IN THE AREA.

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

DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER

R/W APPROXIMATED ON PLAN SHEETS BASED ON AS-BUILTS

WHEN THE QUANTITY OF BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAVEMENT BY THE TON, THE DEPTH OR THICKNESS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL DEPTH WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL BY THE ENGINEER IN THE FIELD.

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 = 60 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 4.4 ACRES

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

CONTACTS

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES
AMY LESIK
1300 W CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PHONE: (715) 839-6571
EMAIL: amy.lesik@wisconsin.gov

STATE PATROL

WISCONSIN STATE PATROL
SGT. MICHAEL HEFFERNAN
5005 USH 53
EAU CLAIRE, WI 54701
PHONE: (715) 839-3800 EXT 6007
EMAIL: michael.heffernan@dot.wi.gov

ELECTRICITY

DAIRYLAND POWER COOPERATIVE
ROB MALY
3200 EAST AVE S
P.O. BOX 817
LA CROSSE, WI 54602-0817
PHONE: (608) 787-1427
EMAIL: Rob.Maly@DairylandPower.com

RIVERLAND ENERGY COOPERATIVE
TIM HOLTAN
N28988 STATE ROAD 93
P.O. BOX 277
ARCADIA, WI 54612-0277
PHONE: (608) 323-3381
EMAIL: tholtan@riverlandenergy.com

XCEL ENERGY
JASON MCROBERTS
3215 COMMERCE ST
LA CROSSE, WI 54603
PHONE: (608) 789-3689 [OFFICE]
PHONE: (715) 577-1132 [MOBILE]
EMAIL: jason.l.mcroberts@xcelenergy.com

DESIGN

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ANDREW UEHLING
718 W CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PHONE: (715) 833-5563
EMAIL: andrew.uehling@dot.wi.gov

COMMUNICATION LINE

CENTURYLINK
TOM MURRAY
333 N FRONT ST
LA CROSSE, WI 54601
PHONE: (608) 615-4169
EMAIL: tom.l.murray@centurylink.com

TRI-COUNTY COMMUNICATIONS COOPERATIVE
BUCK WEBB
417 5TH AVE N
P.O. BOX 578
STRUM, WI 54770
PHONE: (715) 695-2691
EMAIL: bwebb@tccpro.net

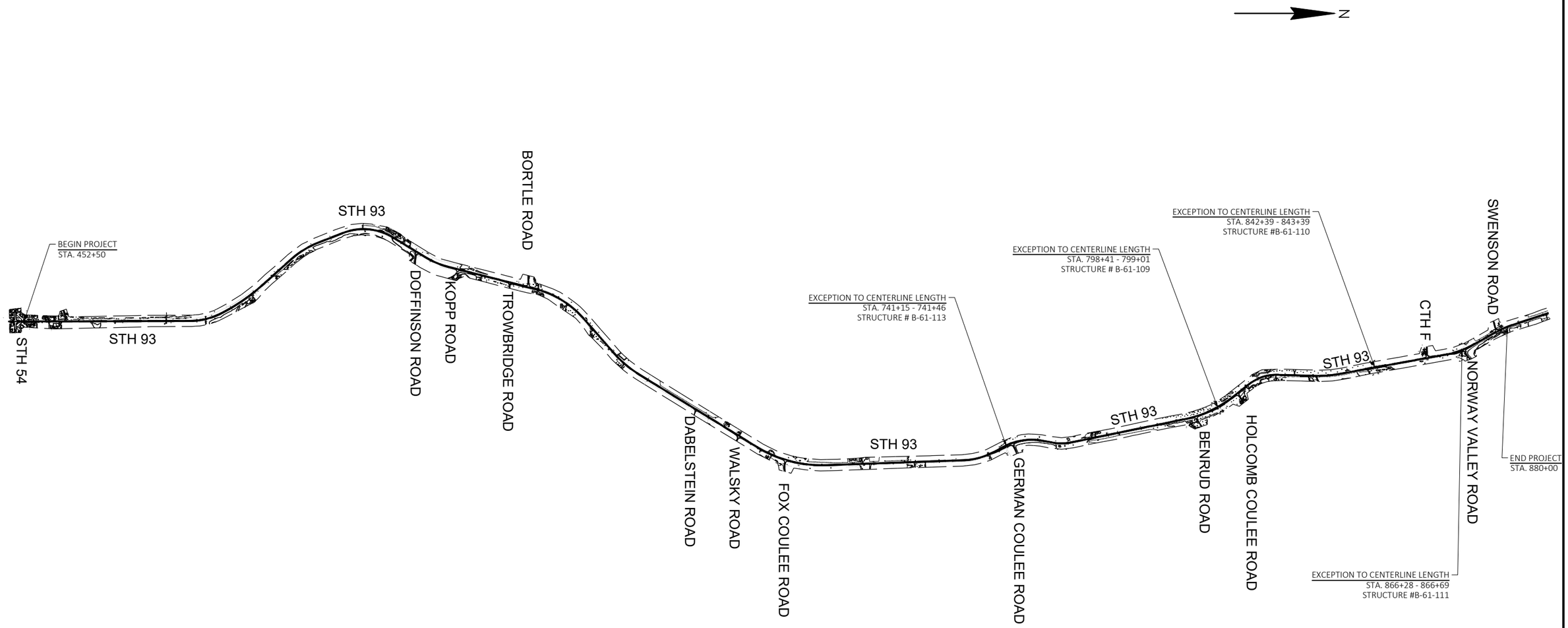
GAS / PETROLEUM

MIDWEST NATURAL GAS, INC
RICK SCHERMERHORN
3600 STATE HIGHWAY 157
P.O. BOX 429
LA CROSSE, WI 54602-0429
PHONE: (608) 781-1011
EMAIL: ricks@midwestnaturalgas.com

Order of Section 2 Sheets

Project Overview
Typical Sections
Construction Details
Intersection Detail
Storm Sewer
Erosion Control
Pavement Marking
Traffic Control
Alignment

2



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PROJECT OVERVIEW	SHEET 3	E

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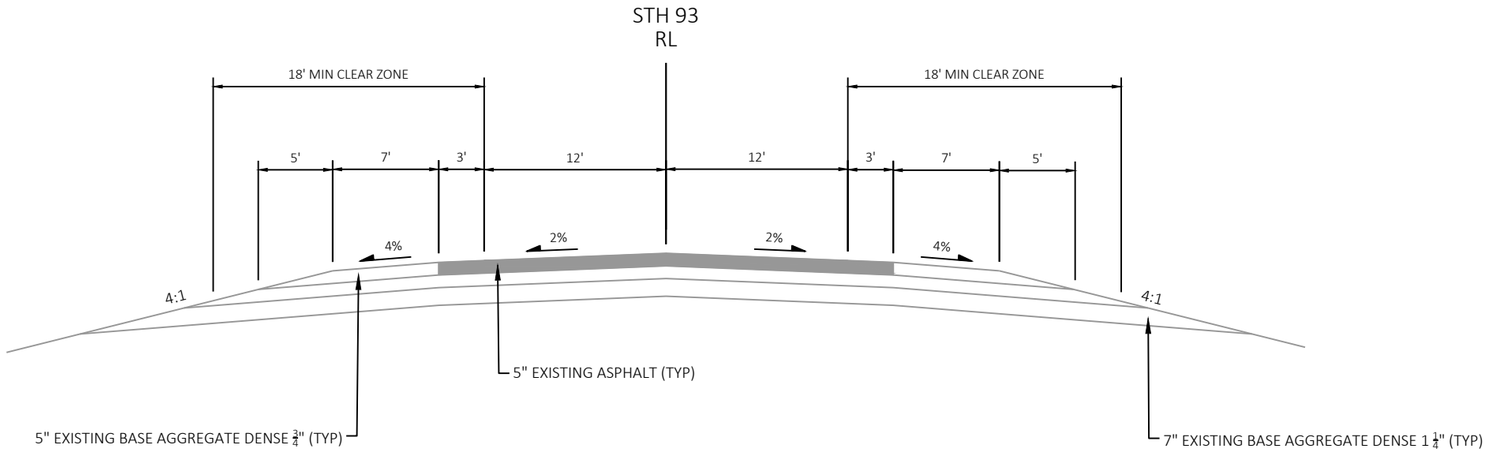
LAYOUT NAME - Plan 1 IN 100 FT
PLOT DATE : 9/8/2020 1:58 PM
PLOT BY : CHRIST, AARON D
PLOT NAME :
PLOT SCALE : 1 IN:0.5 MI
WISDOT/CADDS SHEET 42

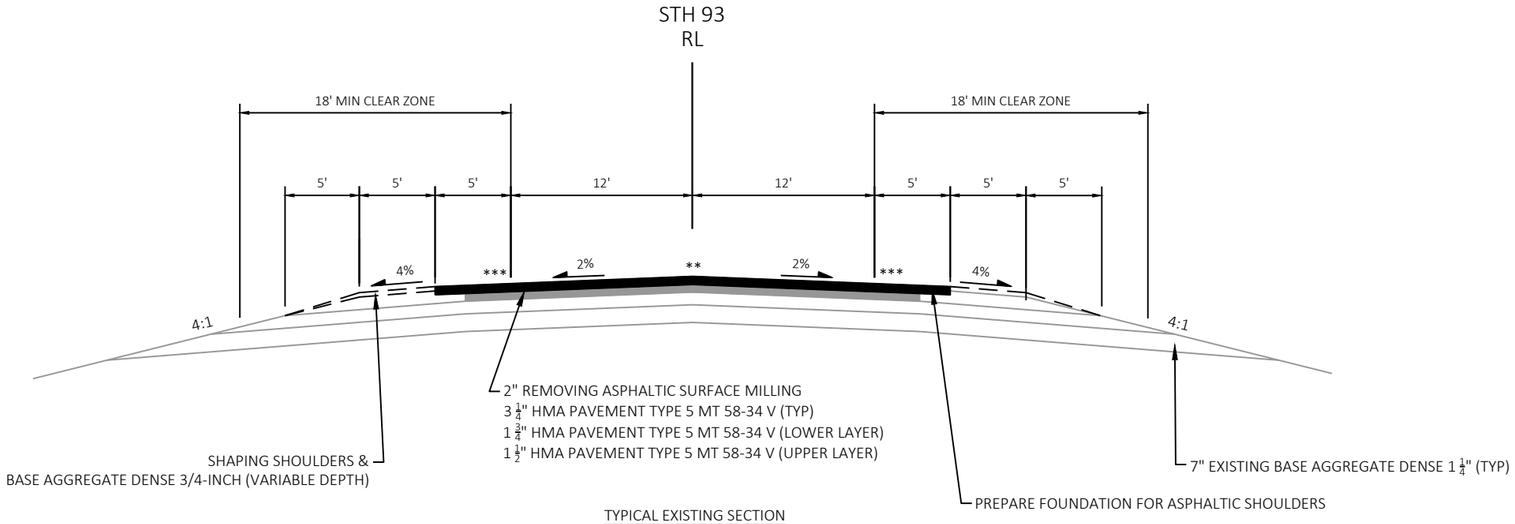
2



TYPICAL EXISTING SECTION

STA 465+29 - 876+25*

*EXCEPT IN NOTED AREAS WITH HALF CURB



TYPICAL EXISTING SECTION

STA 465+29 - 876+25*

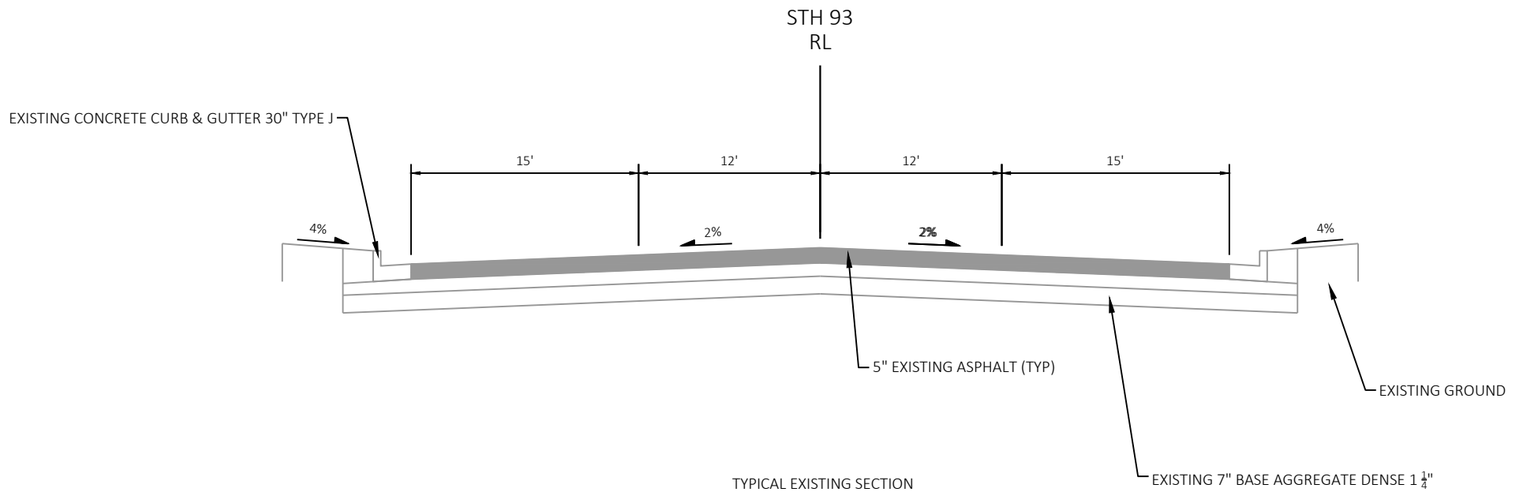
*EXCEPT IN NOTED AREAS WITH HALF CURB

** ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

*** ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL

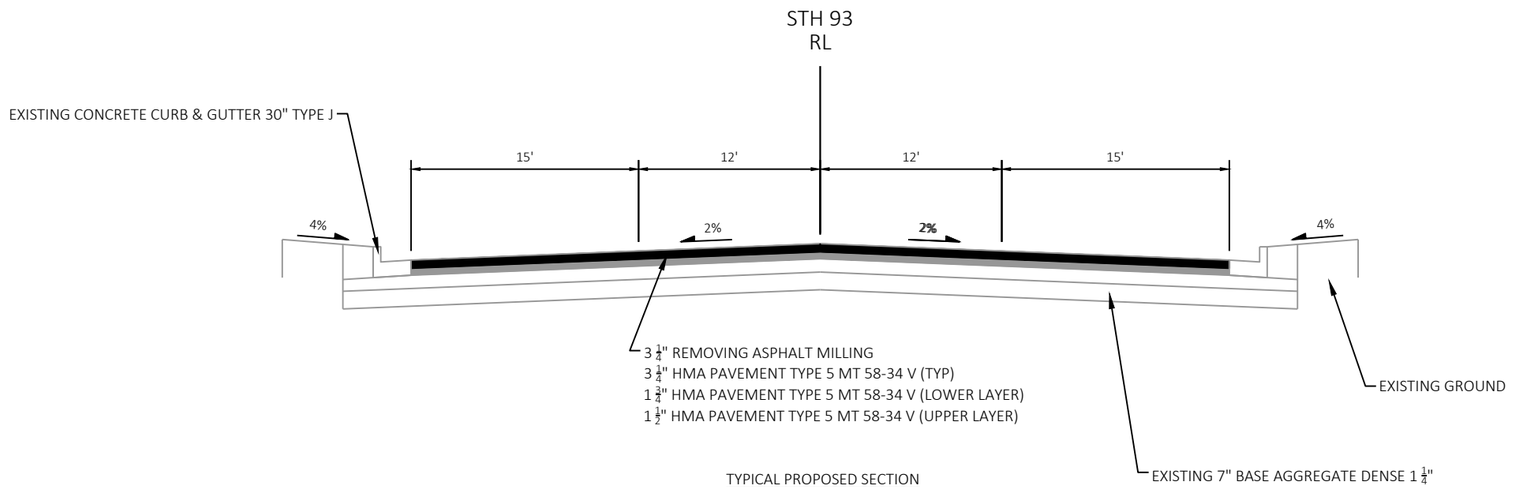
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	TYPICAL SECTION	SHEET 4	E

2



TYPICAL EXISTING SECTION

STA 453+68 - 465+29

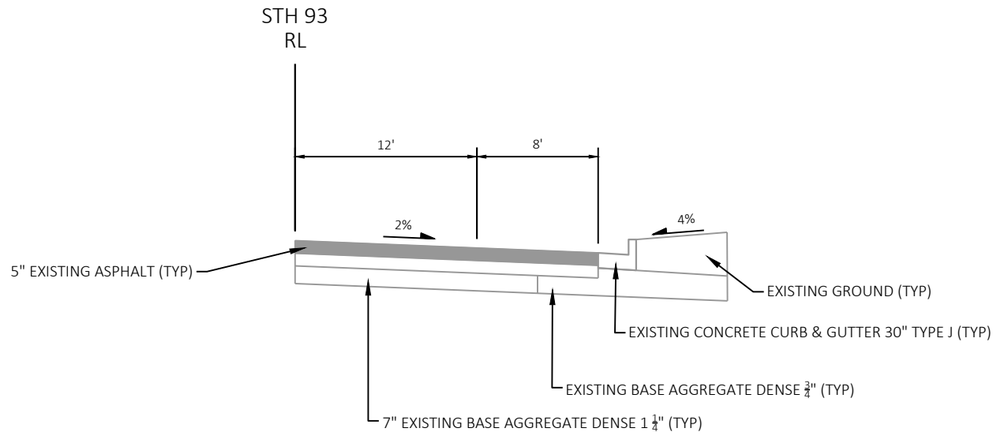


TYPICAL PROPOSED SECTION

STA 453+68 - 465+29

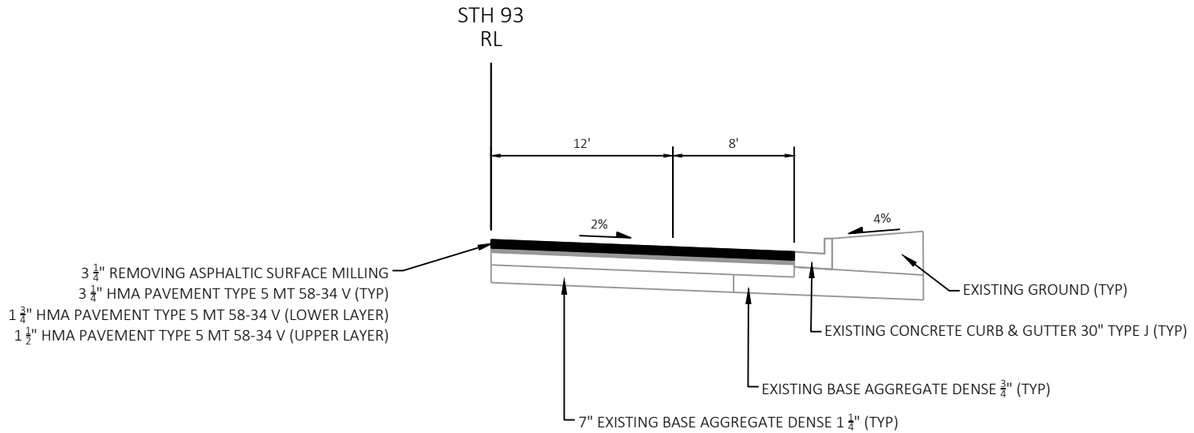
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	TYPICAL SECTION	SHEET 5	E

2



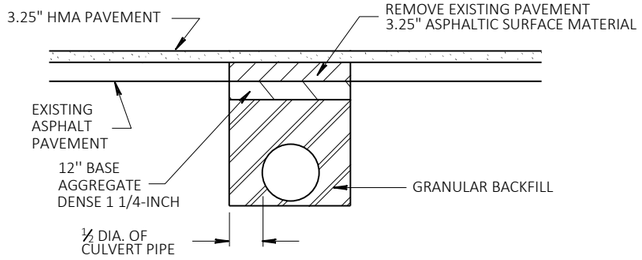
TYPICAL EXISTING HALF SECTION

STA 580+69 - 581+96 LT
STA 580+80 - 584+91 RT
STA 782+49 - 786+77 RT

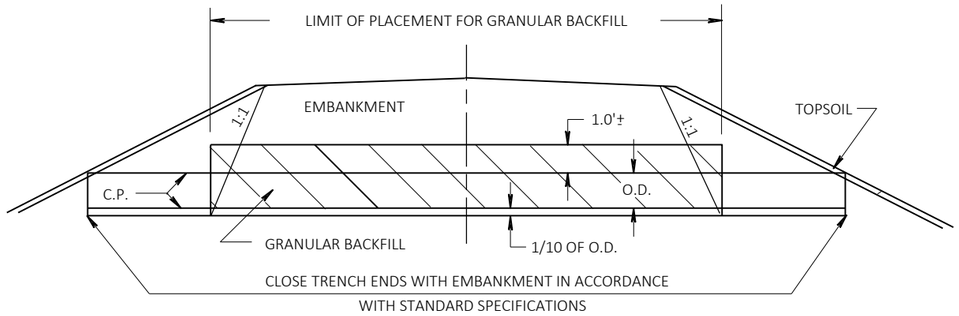


TYPICAL EXISTING HALF SECTION

STA 580+69 - 581+96 LT
STA 580+80 - 584+91 RT
STA 782+49 - 786+77 RT



DETAIL FOR CULVERT PIPE INSTALLATION
IN AREAS OF EXISTING PAVEMENT



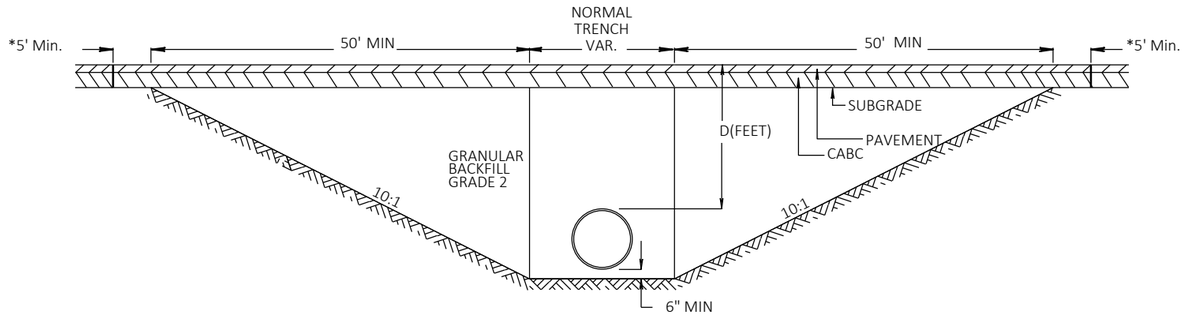
CULVERT BACKFILL DETAIL

CULVERT PIPE LOCATIONS

STATION	DEPTH TO BOTTOM OF PIPE	WORK PERFORMED
475+98	9'	SALVAGED 36-INCH RCCP
494+73	8'	NEW 24-INCH CLASS III-B NON-METAL PIPE
511+12	5'	SALVAGED 24-INCH RCCP
543+45	8'	NEW 30-INCH CLASS III-B NON-METAL PIPE
552+76	5'	SALVAGED 30-INCH RCCP
750+20	7'	SALVAGED 30-INCH RCCP
754+55	6'	SALVAGED 24-INCH RCCP
757+89	6'	SALVAGED 24-INCH RCCP
777+51	6'	SALVAGED 24-INCH RCCP
787+10	4'	SALVAGED 24-INCH RCCP
822+00	5'	NEW 18-INCH RCCP
826+40	9'	NEW 24-INCH RCCP
826+44	9'	NEW 24-INCH RCCP
830+41	8'	NEW 24-INCH CLASS III-B NON-METAL PIPE
857+10	6'	NEW 36-INCH CLASS III-B NON-METAL PIPE
870+50	4'	NEW 18-INCH RCCP
873+80	6'	NEW 24-INCH RCCP
876+75	6'	NEW 18-INCH RCCP
879+50	5'	NEW 18-INCH RCCP
19+24	5'	NEW 24-INCH CMCP - SWENSON LANE, RT.

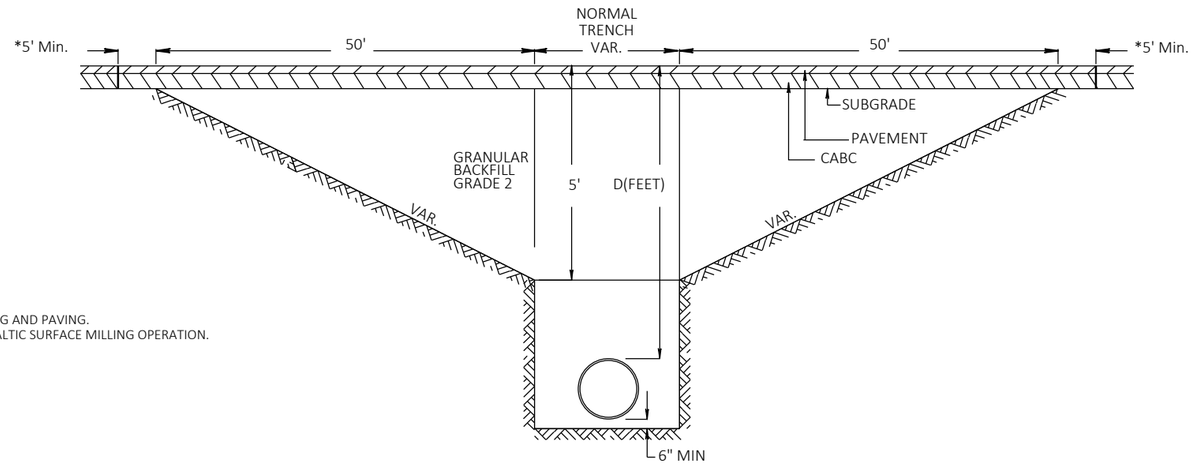
NOTES

PERFORM CULVERT PIPE INSTALLATION BEFORE MILLING AND PAVING.
COMPLETE CULVERT PIPE TRANSITION PRIOR TO ASPHALTIC SURFACE MILLING OPERATION.



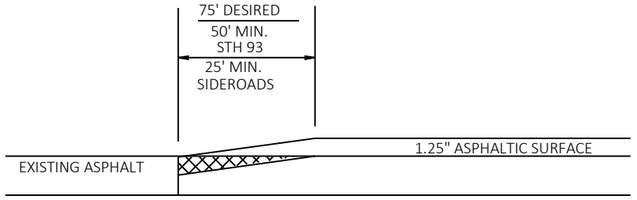
CROSS DRAIN INSTALLATION DETAIL
FOR D ≤ 5'

* Pavement Removal Limits (Typical)



CROSS DRAIN INSTALLATION DETAIL
FOR D ≥ 5'

2



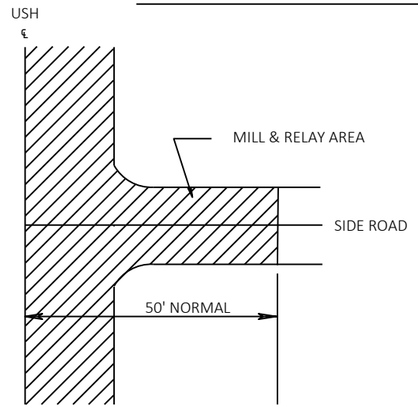
BUTT JOINT

PAID FOR AS REMOVING ASPHALTIC SURFACE BUTT JOINTS

REQUIRED AT BEGIN AND END PAVING LOCATIONS

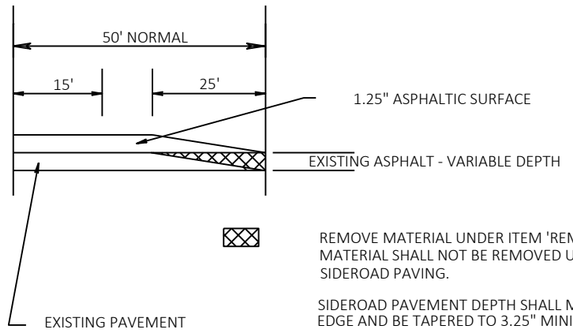
NOTE: ANY SAWCUT USED IN THIS OPERATION CONSIDERED INCIDENTAL TO THIS ITEM

SIDE ROAD DETAIL - NO CURB & GUTTER



NOTE: IF THE EXISTING SIDEROAD CONSISTS OF A BASE COURSE SURFACE, THE NEW ASPHALT SHALL BE PLACED TO THE ENDS OF THE EXISTING SIDEROAD RADIUS'.

NOT TO SCALE



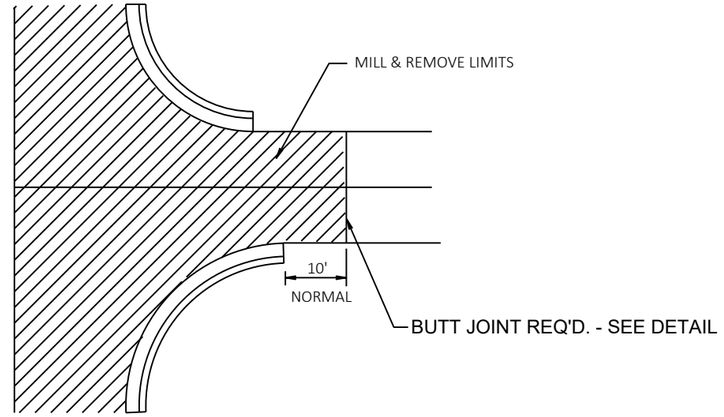
REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALT SURFACE , BUTT JOINTS' MATERIAL SHALL NOT BE REMOVED UNDER THIS ITEM UNTIL 24 HOURS BEFORE SIDEROAD PAVING.

SIDEROAD PAVEMENT DEPTH SHALL MATCH AT MAINLINE PAVEMENT EDGE AND BE TAPERED TO 3.25" MINIMUM AT JOINT

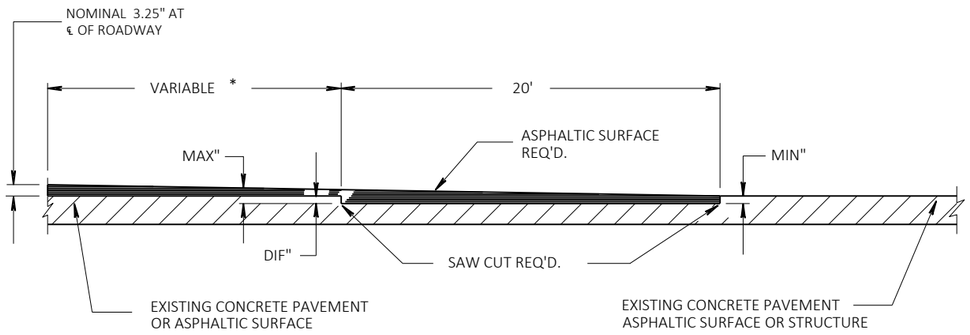
NOTE: ANY SAWCUT USED WILL BE CONSIDERED INCIDENTAL TO THE ITEM "REMOVING ASPHALTIC SURFACE, BUTT JOINTS."

SIDEROAD DETAIL - CURB & GUTTER TO REMAIN

NOT TO SCALE

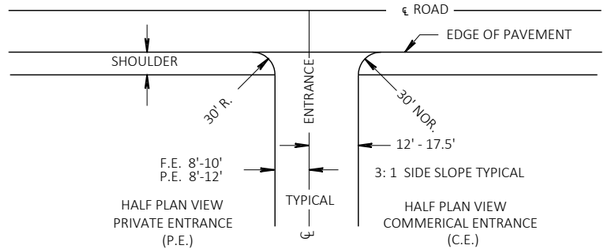


PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CONSTRUCTION DETAILS	SHEET 8	E

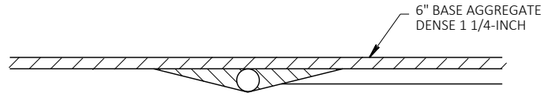


DETAIL OF BUTTED JOINT

* EXACT DIMENSIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

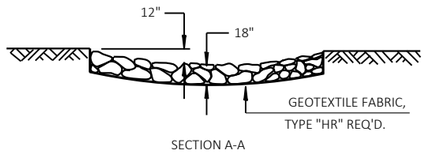


PLAN VIEW

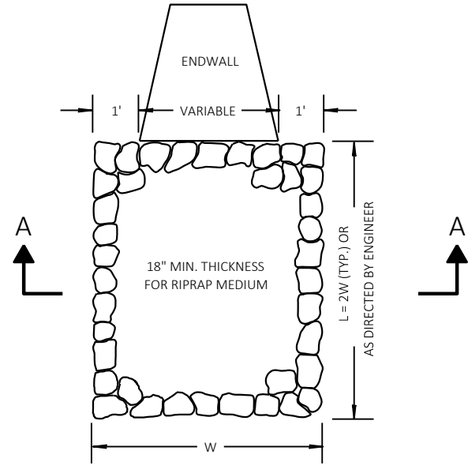


PROFILE VIEW

RURAL DRIVEWAY DETAIL

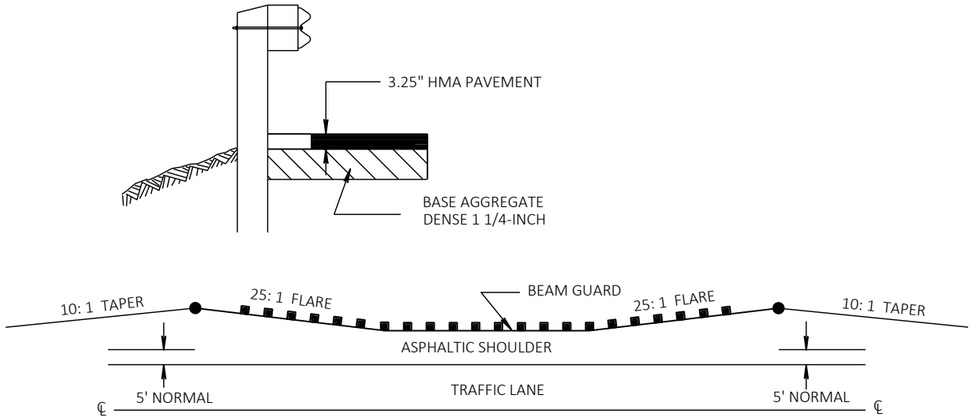


SECTION A-A

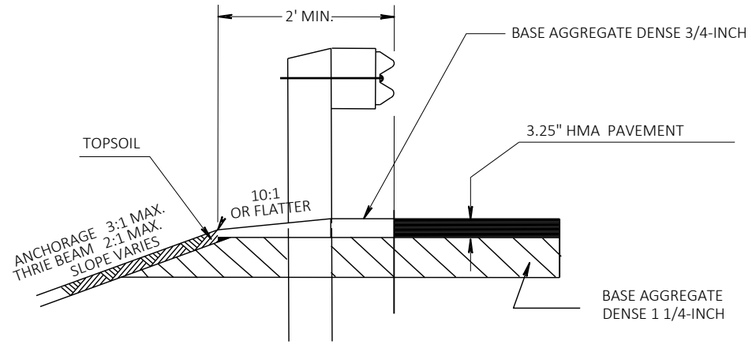


RIPRAP MEDIUM TREATMENT AT CULVERTS

2

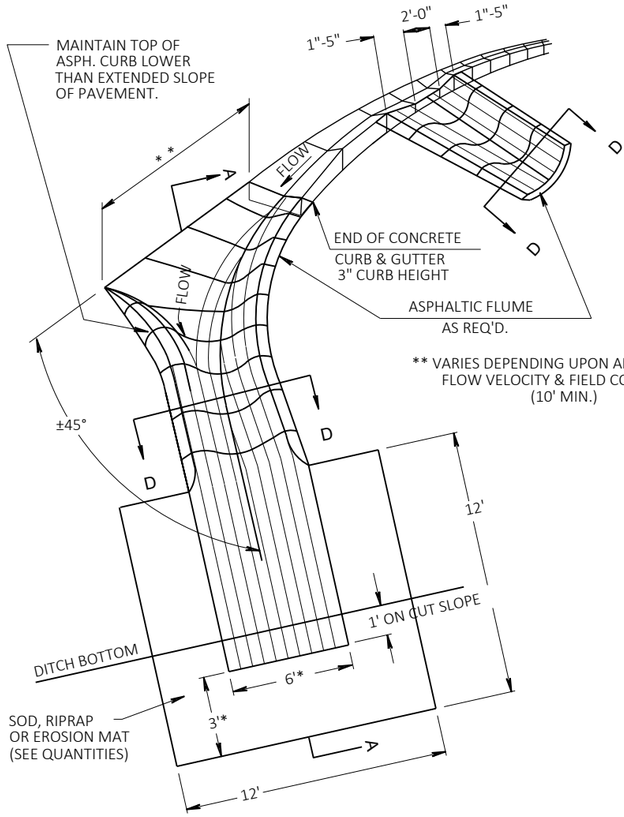


DETAIL FOR ASPHALTIC SHOULDER AT BEAM GUARD

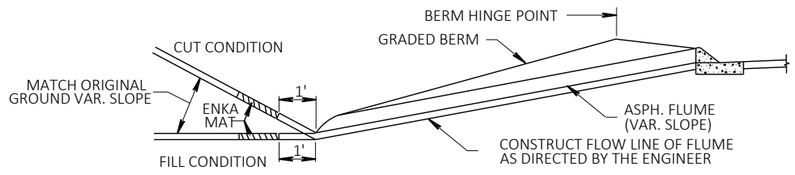


ASPHALTIC SHOULDER AT GUARD RAIL

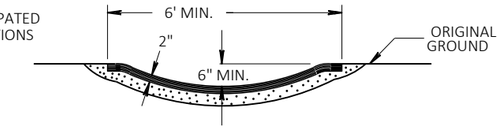
2



** VARIES DEPENDING UPON ANTICIPATED FLOW VELOCITY & FIELD CONDITIONS (10' MIN.)

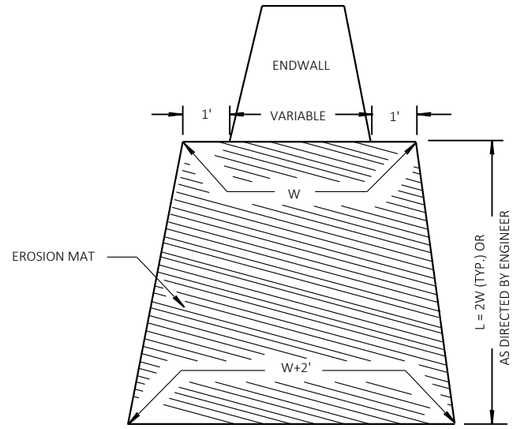


SECTION A-A

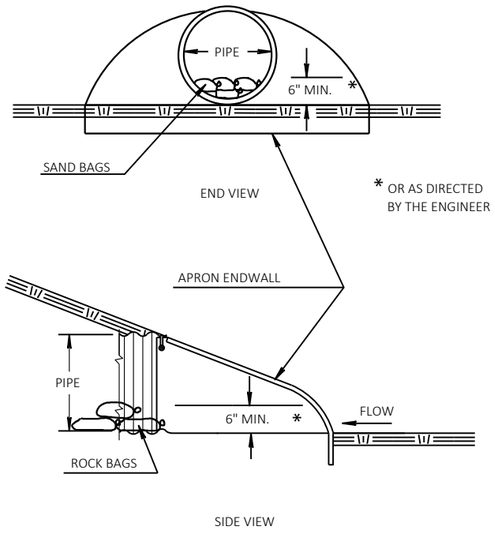


SECTION D-D

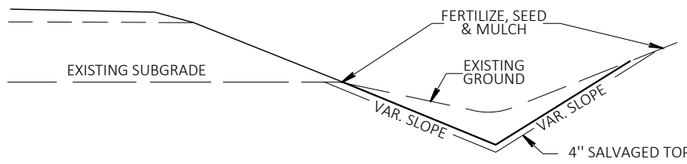
ASPHALTIC FLUME DETAIL AT RURAL INTERSECTIONS



EROSION MAT TREATMENT AT CULVERTS

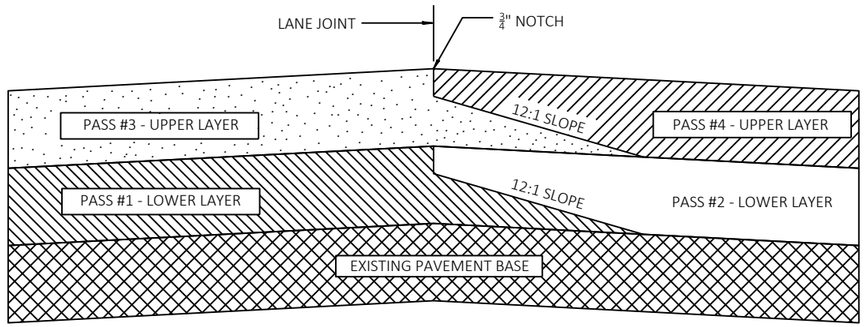


CULVERT PIPE CHECK



DITCH SHAPING DETAIL

2

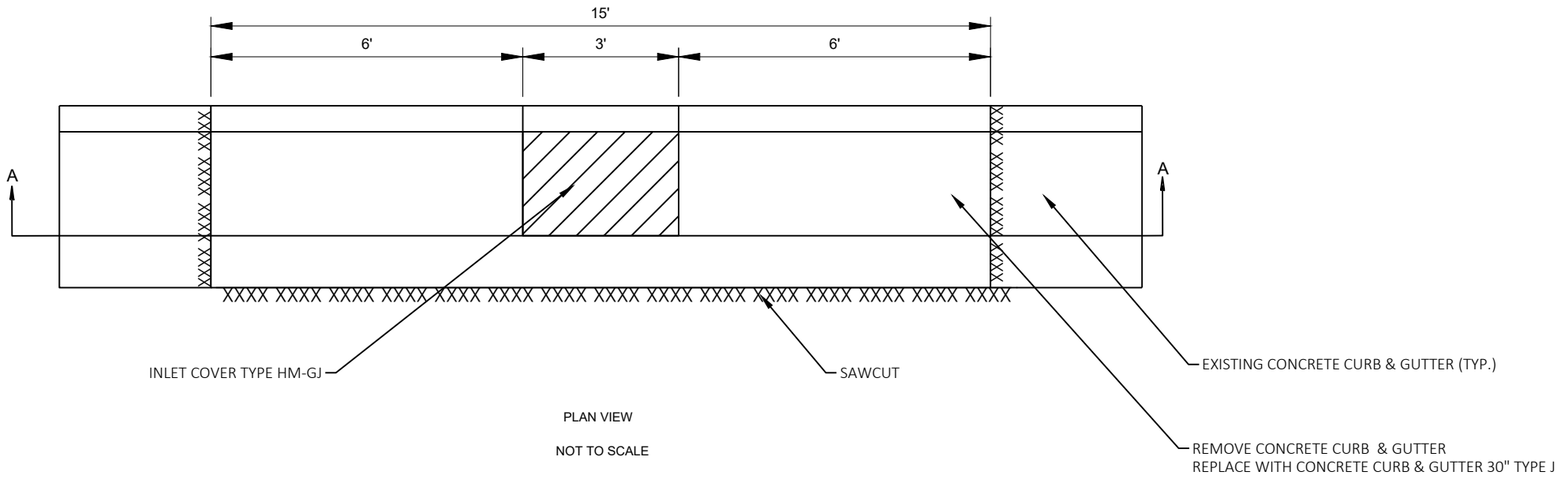


(LOWER AND UPPER LAYERS)

TYPICAL PAVEMENT CROSS SECTIONS OF

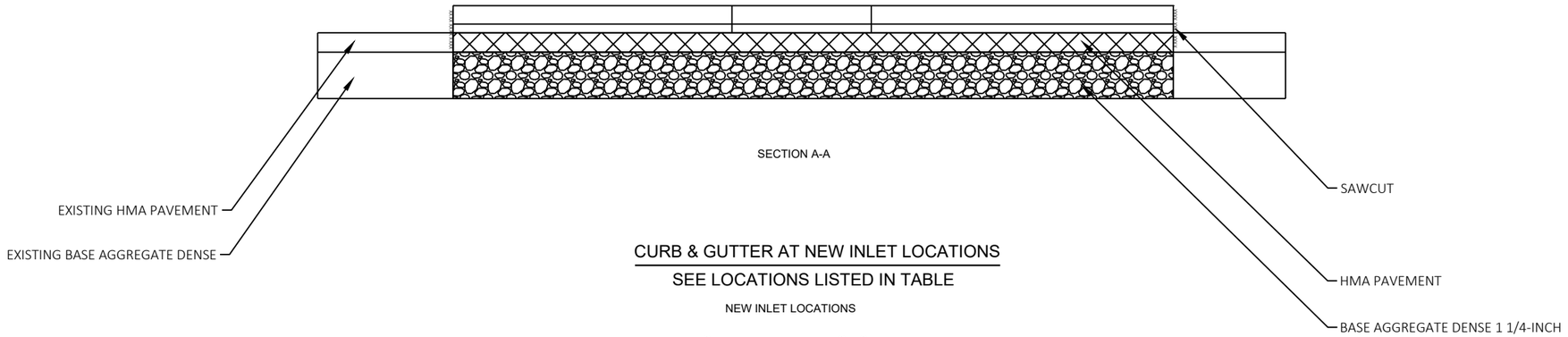
TAPERED AND NOTCHED LONGITUDINAL JOINTS

2



PLAN VIEW

NOT TO SCALE



SECTION A-A

CURB & GUTTER AT NEW INLET LOCATIONS

SEE LOCATIONS LISTED IN TABLE

NEW INLET LOCATIONS

STA.	OFFSET
822+00	21.7' RT.
876+75	28' RT.
879+50	20' RT.
873+80	21' RT.

2

N

BUTT JOINT REQ'D
STA. 23+83.79

BUTT JOINT REQ'D
STA. 452+50

SIGN

A/C

24+00 STH 35

SIGN

INL

SIGN

MH

SEPC

N16047

A/C

N16099

PE ASPH

452+00 453+00 EP: 25+00.00 454+00 455+00 456+00 457+00 458+00

BP: 35+00.00

STH 35

STH 93

SIGN

STH 54/93

INL

PI 35+80.44

SIGN

36+00

BUTT JOINT REQ'D
STA. 36+50.34

PI: 36+78.78

W

W

W

PE ASPH

PE CABC

N16068

A/C

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	INTERSECTION DETAIL	SHEET 14	E

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

0+00.00

BP: 451+50.00

452 454 456 458 460 462 464 466

BEGIN CONSTRUCTION
STA. 452+50

FLAG

SEPC

A/C

SIGN

INL

W

MH

DMH

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 15 E

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

0+00.00

TAMARACK CR

SIGN

TAMARACK CR

466 468 470 472 474 476 478 480

STA.473+84
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

STA. 475+98
1 - CULVERT PIPE SALVAGED 36" REQ'D
2 - MARKERS CULVERT END REQ'D

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 16	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (2)

PLOT DATE : 11/17/2020 9:46 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

0+00.00

N

LEGEND

######	EROSION MAT CLASS I, TYPE B
	SILT FENCE
	RIP RAP
	INTERCEPTING EMBANKMENT
	SLOPE INTERCEPT
	TEMPORARY DITCH CHECK
	CULVERT PIPE CHECK
	SURFACE WATER FLOW

STA.856+10
SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

SIGN

TAMARACK CR

TAMAR

482 484 486 488 490 492 494 496

STA.494+73
REMOVE 1- 24" RCCP REQ'D
1 - 24" CP CLASS III-B NON-METAL (112') REQ'D
2 - APRON ENDWALLS REQ'D
2 - MARKERS CULVERT END REQ'D

STA.494+73
SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 17	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (3)

PLOT DATE : 11/17/2020 9:49 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

0+00.00

N

TAMARACK CR

PC: 496+51.90

PC: 508+05.62

WETLAND

WETLAND

WETLAND

496

498

500

502

504

506

508

510

STA.501+40
1 - CLEANING CONCRETE BOX CULVERT REQ'D
2 - MARKERS CULVERT END REQ'D

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 18	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (4)

PLOT DATE : 11/17/2020 9:50 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

0+00

WETLAND

STA. 511+12
1 - CULVERT PIPE SALVAGED 24" REQ'D
1 - GEOTEXTILE FABRIC HR (7 SY) REQ'D
1 - PLACE RIP RAP (LT.) (12' x 6') REQ'D
2 - MARKERS CULVERT END REQ'D

STA. 518+46
1 - CLEANING CONCRETE BOX CULVERT REQ'D
1 - GEOTEXTILE FABRIC HR (13 SY) REQ'D
1 - PLACE RIP RAP, (LT.) (11' x 12 ') REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

PT: 521+23.61

10

512

514

516

518

520

522

524

WETLAND

A/C

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 19	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (5)

PLOT DATE : 11/17/2020 9:52 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

STA.527+12
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

PC: 531+58.69

WETLAND

STA.538+07
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

PT: 539+92.32

526 528 530 532 534 536 538 540

00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 20	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (6)

PLOT DATE : 11/17/2020 9:54 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

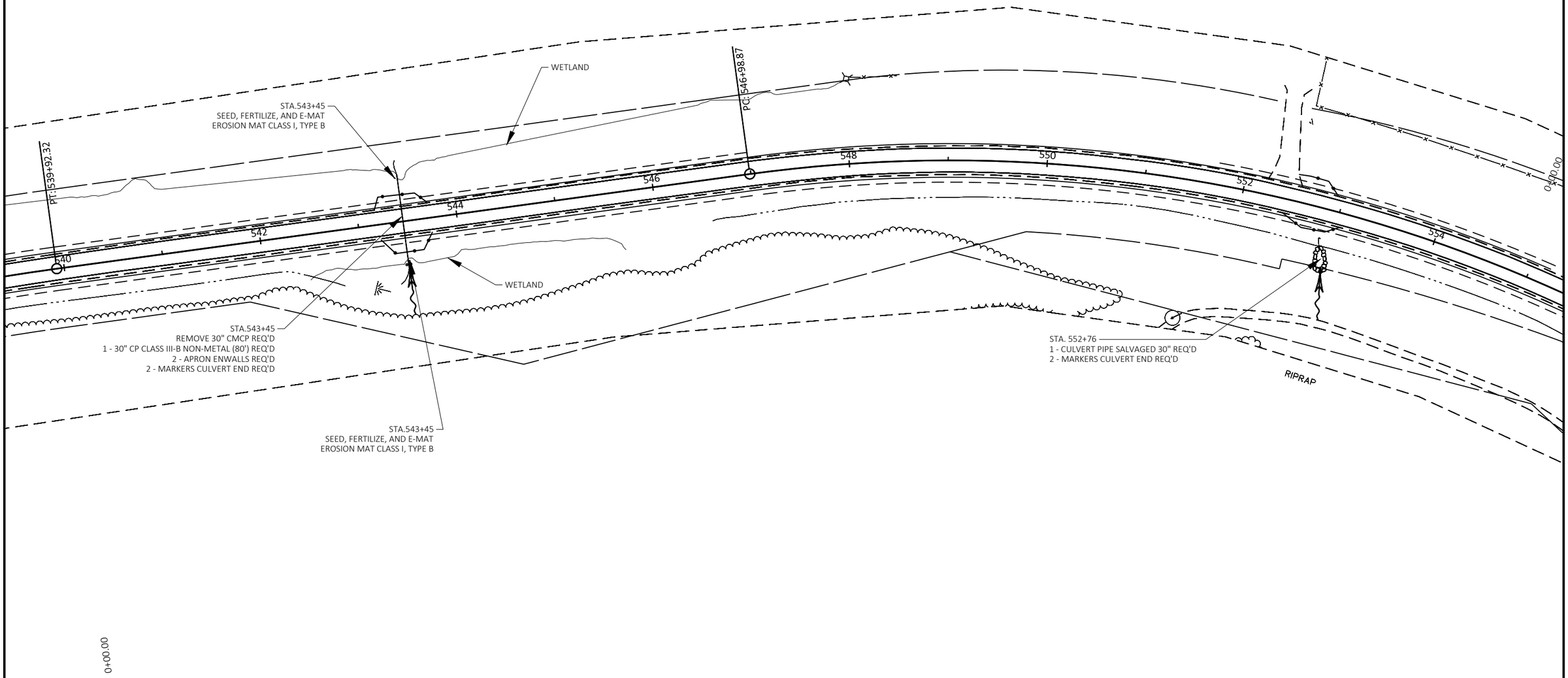
2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 21	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (7)

PLOT DATE : 11/17/2020 9:56 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

0+00.00

SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

FEEDER
FEEDER
FEEDER
CONVEYOR
FEEDER
CORN CRIB
PIT 10+55

556 558 560 562 564 566 568

STA. 569+39
1 - GEOTEXTILE FABRIC HR (7 SY) REQ'D
1 - PLACE RIP RAP, (LT.) (8' x 8') REQ'D
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

STA.563+33
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 22	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (8)

PLOT DATE : 11/17/2020 9:57 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

00+00

N

PC: 570+90.80

PT: 577+37.92

WETLAND

570 572 574 576 578 580 582 584

WETLAND

STA.572+46
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 23	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (9)

PLOT DATE : 11/17/2020 9:59 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

0+00.00

N

STA. 597+74
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

STA. 596+54
1 - GEOTEXTILE FABRIC HR (32 SY) REQ'D
1 - PLACE RIP RAP, (LT.) (24' x 12') REQ'D
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

584 586 588 590 592 594 596 598

SIGN

WETLAND

STA.587+48
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

STA. 596+54
1 - GEOTEXTILE FABRIC HR (32 SY) REQ'D
1 - PLACE RIP RAP, (RT.) 24(' x 12') REQ'D

0+00.00

2

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 24	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (10)

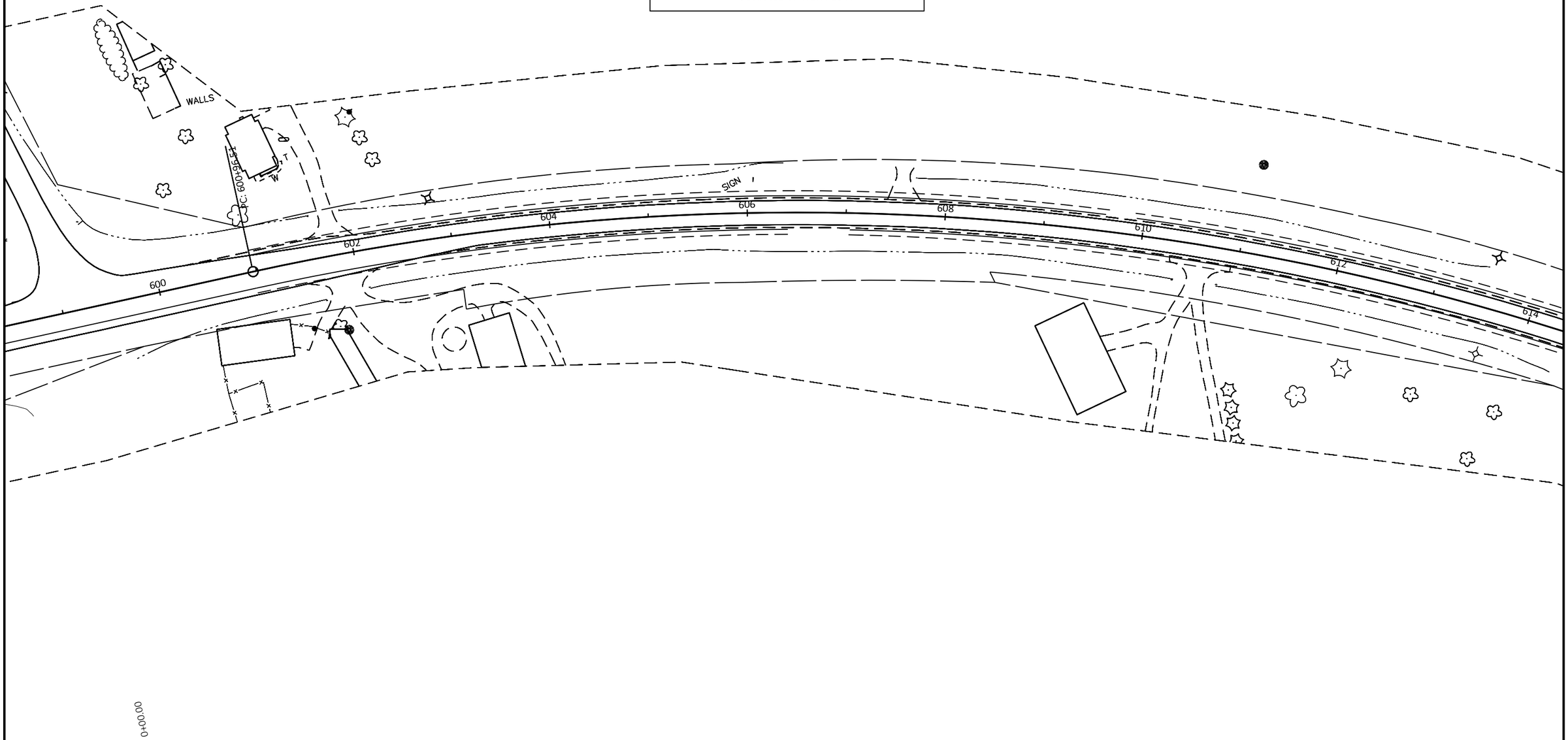
PLOT DATE : 11/17/2020 10:01 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N



0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 25	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (11)

PLOT DATE : 11/17/2020 10:02 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

0+00.00

STA. 619+22
1 - CLEANING CULVERT PIPE REQ'D
1- GEOTEXTILE FABRIC HR, (LT.) (.5 SY) REQ'D
1 - PLACE RIP RAP (LT.) (2 FT X 8 FT) REQ'D
2 - MARKERS CULVERT END REQ'D

PT: 616+37.74

PC: 628+63.72

614 616 618 620 622 624 626 628

STA. 627+96
1 - CLEANING CULVERT PIPE REQ'D
1- GEOTEXTILE FABRIC HR, (LT.) (7 SY) REQ'D
1 - PLACE RIP RAP (10 FT X 6 FT) REQ'D
2 - MARKERS CULVERT END REQ'D

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 26	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (12)

PLOT DATE : 11/17/2020 10:04 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

0+000

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

PC: 628+63.72

PT: 637+11.81

628 630 632 634 636 638 640 642

WETLAND

WETLAND

WETLAND

STA.639+82
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 27	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (13)

PLOT DATE : 11/17/2020 10:05 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

0+00.00

644 646 648 650 652 654 656 658

WETLAND

WETLAND

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 28	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (14)

PLOT DATE : 11/17/2020 10:06 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

0+00.00

2

WETLAND

WETLAND

658 660 662 664 666 668 670 672

WETLAND

WETLAND

I SIGN

STA. 658+68
1 - CLEANING CONCRETE BOX CULVERT REQ'D
2 - MARKERS CULVERT END REQ'D

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 29	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (15)

PLOT DATE : 11/17/2020 10:08 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

0+00.00

P.C. 673+63.96

674 676 678 680 682 684 686 688

SIGN

WETLAND

WETLAND

SIGN

STA.685+30
1 - CLEANING CONCRETE BOX CULVERT REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 30	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (16)

PLOT DATE : 11/17/2020 10:09 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

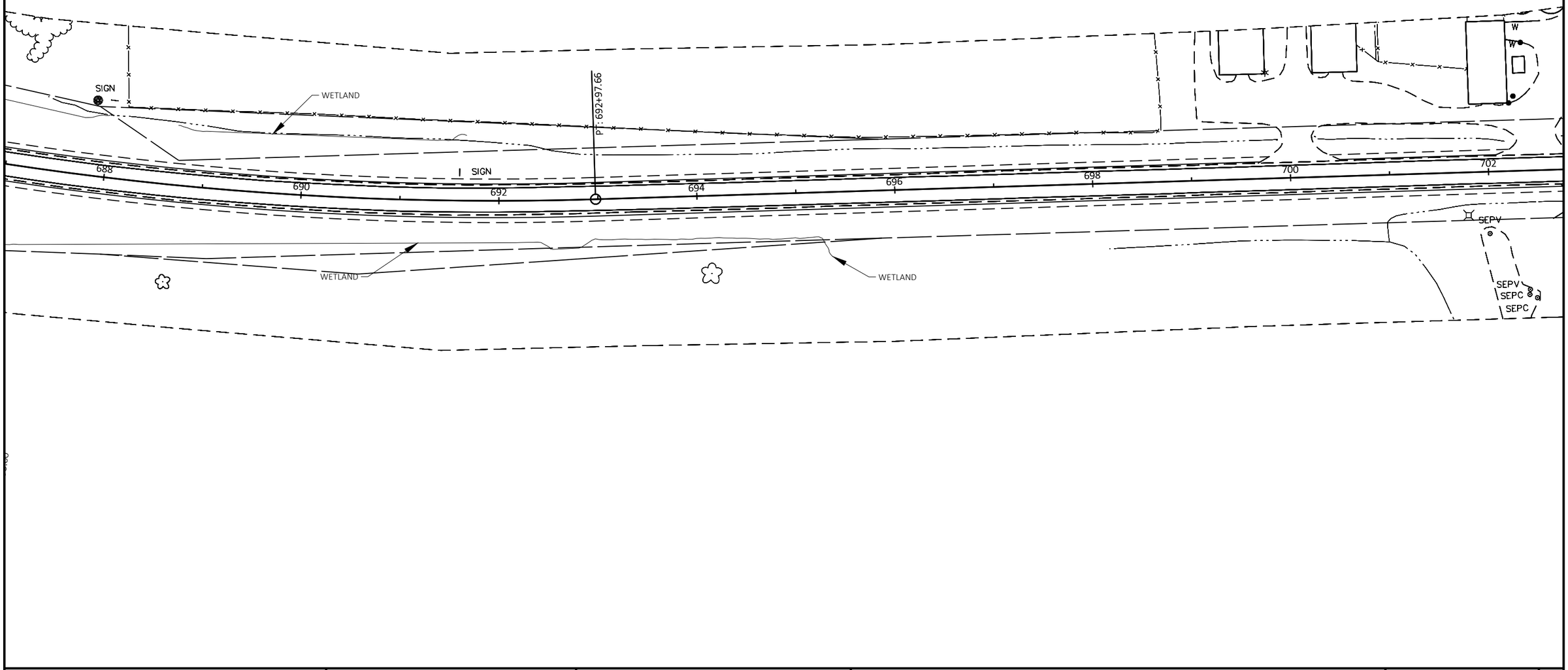
2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

0+00.00



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 31	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (17)

PLOT DATE : 11/17/2020 10:10 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

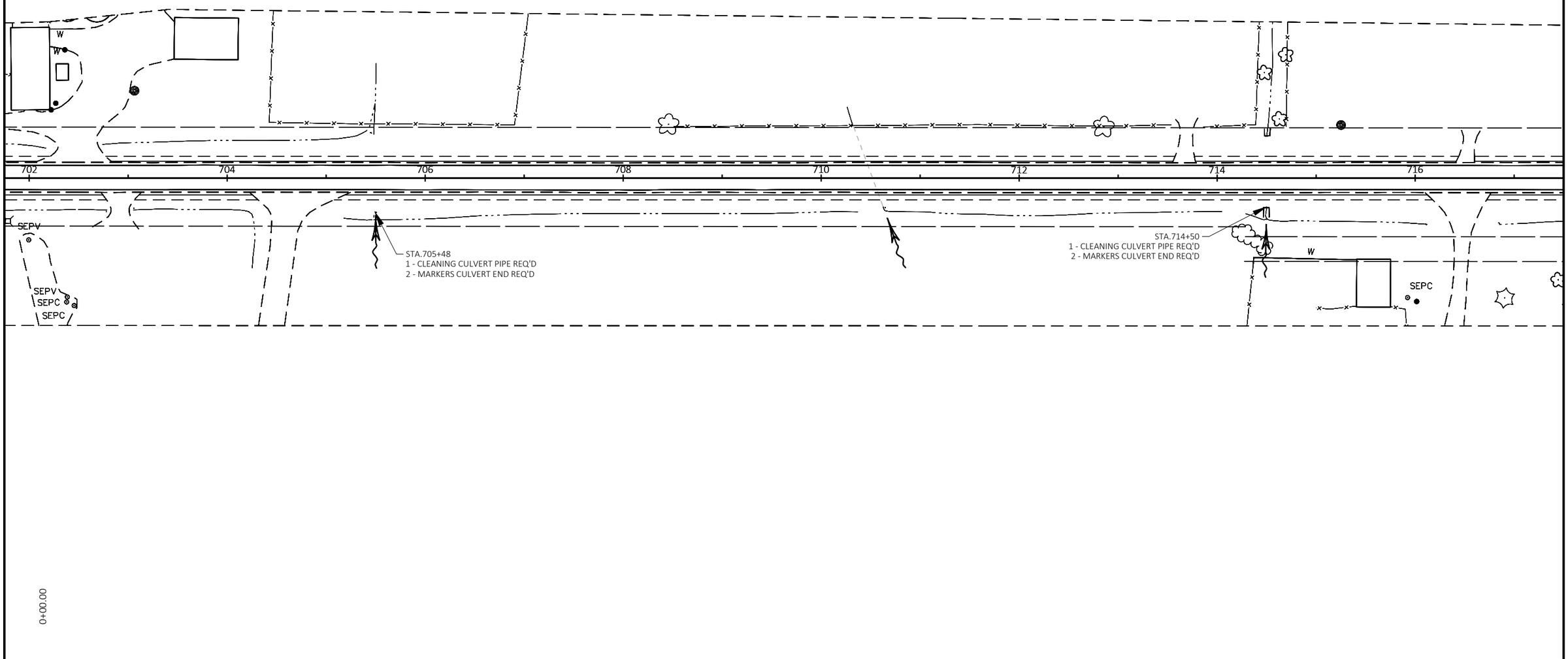
2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

0+00.00



0+00.00

2

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 32	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (18)

PLOT DATE : 11/17/2020 10:11 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

0+00.00

N

STA. 722+78
1 - GEOTEXTILE FABRIC HR (12 SY) REQ'D
1 - PLACE RIP RAP, (LT.) (11' x 10') REQ'D
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

PC: 729+32.86

718 720 722 724 726 728 730 732

STA. 722+78
1 - GEOTEXTILE FABRIC HR (21 SY) REQ'D
1 - PLACE RIP RAP, (RT.) (19' x 10') REQ'D

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 33	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (19)

PLOT DATE : 11/17/2020 10:12 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

RIPRAP

SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

WETLAND

PT: 736+60.90

RC 741+86.79

SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

732 734 736 738 740 742 744 746

SIGN

SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

WETLAND

SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

RIPRAP

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 34	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (20)

PLOT DATE : 11/17/2020 10:13 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

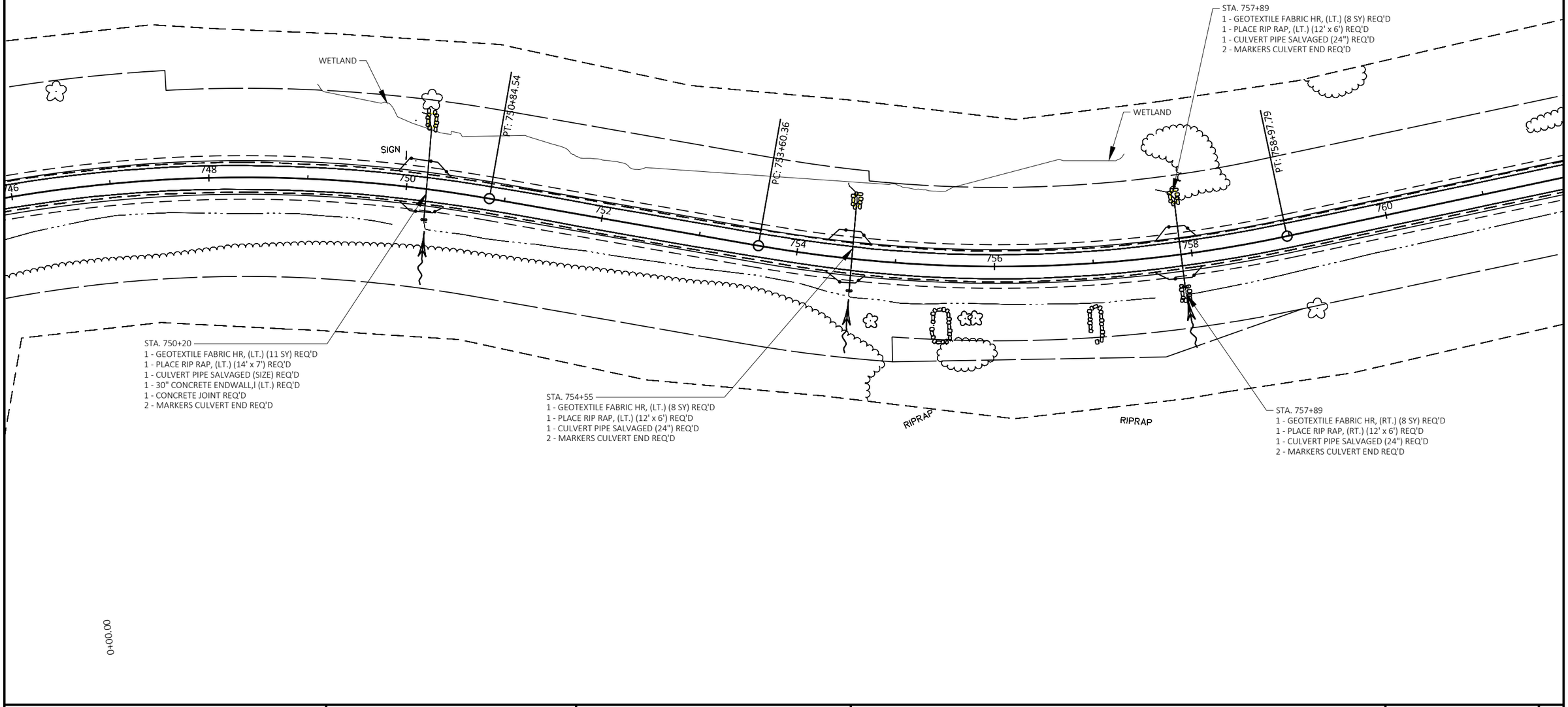
2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

0+00.00

N



0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 35	E

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

0+00.00

N

762 764 766 768 770 772 774 776

WETLAND

STA.763+67
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

STA.768+65
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

STA.771+28
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 36	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (22)

PLOT DATE : 11/17/2020 10:16 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

0+00.00

N

WETLAND

WETLAND

STA. 787+10
1 - CULVERT PIPE SALVAGED (24") REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

PC: 789+86.06

776 778 780 782 784 786 788 790

STA. 777+51
1 - CULVERT PIPE SALVAGED (24") REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

STA.781+95
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

SEPV
SEPV
SEPV
SEPC
SEPC

SEPV

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 37	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (23)

PLOT DATE : 11/17/2020 10:17 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

0+00.00

N

SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

RIPRAP

RIPRAP

TAMARACK CR

SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

PT 803+37.10

792 794 796 798 800 802 804 806

SIGN

SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

SIGN

SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

RIPRAP

RIPRAP

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 38	E

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

TAMARACK CR

TAMARACK CR

WETLAND

SIGN

PC: 808+98.85

STA.806+46
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

806

808

810

812

814

816

818

820

STA.811+52
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

WETLAND

WETLAND

WETLAND

WETLAND

WETLAND

PT: 816+99.26

WETLAND

WETLAND

SIGN

STA.814+53
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

STA.818+98
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

SEPTIC

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 39	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (25)

PLOT DATE : 11/17/2020 10:19 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

0+00.00

N

STA. 822+00
1 - 18" CPRC CLASS III (58') REQ'D
1 - APRON ENWALLS REQ'D
2 - MARKERS CULVERT END REQ'D

STA.826+44
SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

STA. 826+44
REMOVE 30" CMCP REQ'D
1 - 30" CPRC CLASS III (69') REQ'D
2 - APRON ENWALLS REQ'D
2 - MARKERS CULVERT END REQ'D

STA. 830+41
REMOVE 24" CMCP REQ'D
1 - 30" CP CLASS III-B NON-METAL (68') REQ'D
2 - APRON ENWALLS REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

PC: 826+74.00

PT: 833+70.52

820 822 824 826 828 830 832 834

WETLAND

WETLAND

WETLAND

WETLAND

STA. 822+00
1 - INLETS 2 x 3 - FT REQ'D
1 - INLET COVERS TYPE HM-GJ REQ'D
1 - INLET PROTECTION TYPE C REQ'D

STA. 826+40
REMOVE 30" CMCP REQ'D
1 - 30" CPRC CLASS III (69') - REQ'D
2 - APRON ENWALLS REQ'D
2 - MARKERS CULVERT END REQ'D

STA.826+40
SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 40	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (26)

PLOT DATE : 11/17/2020 10:20 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

0+00.00

N

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

RIPRAP
RIPRAP
SEED, FERTILIZE, AND E-MAT EROSION MAT CLASS I, TYPE B
WETLAND
WETLAND
WETLAND
SEED, FERTILIZE, AND E-MAT EROSION MAT CLASS I, TYPE B
WETLAND
836
838
840
842
844
846
848
850
WETLAND
STA.836+39
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D
WETLAND
TAMARACK CR
WETLAND
SEED, FERTILIZE, AND E-MAT EROSION MAT CLASS I, TYPE B
SEED, FERTILIZE, AND E-MAT EROSION MAT CLASS I, TYPE B
RIPRAP
RIPRAP

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 41	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (27)

PLOT DATE : 11/17/2020 10:22 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

0+00.00

N

RUINS

RUINS

STA.857+55
SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

STA.857+10
REMOVE 2- 36" RCCP REQ'D
2 - 36" CP CLASS III-B NON-METAL (93') REQ'D
2 - APRON ENDWALLS REQ'D
2 - MARKERS CULVERT END REQ'D

PC: 862+89.21

WETLAND

WETLAND

WETLAND

WETLAND

WETLAND

SIGN

SIGN

850 852 854 856 858 860 862 864

STA.856+74
SEED, FERTILIZE, AND E-MAT
EROSION MAT CLASS I, TYPE B

0+00.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 42	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (28)

PLOT DATE : 11/17/2020 10:23 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

0+00.00

STA. 19+24, RT
1 - 24" CPCM (18') REQ'D
2 - APRON ENWALL REQ'D

STA. 876+75
1 - 18" CPRC CLASS III (74') REQ'D
1 - APRON ENWALL REQ'D
1 - GEOTEXTILE FABRIC HR, (LT.), (9 SY) REQ'D
1 - PLACE RIPRAP, (LT.) (12' x 6') REQ'D
2 - MARKERS CULVERT END REQ'D

STA. 870+50
1 - 18" CPRC CLASS III (56') - REQ'D
2 - APRON ENWALLS REQ'D
1 - GEOTEXTILE FABRIC HR, (LT.), (9 SY) REQ'D
1 - PLACE RIPRAP, (LT.) (12' x 6') REQ'D
2 - MARKERS CULVERT END REQ'D

SEED, FERTILIZE, AND E-MAT EROSION MAT CLASS I, TYPE B

RIPRAP RIPRAP

SEED, FERTILIZE, AND E-MAT EROSION MAT CLASS I, TYPE B

WETLAND

WETLAND

PT: 869+26.63

STA. 873+80
REMOVE 24" LENGTH RCCP REQ'D
1 - 24" CPRC CLASS III (56') REQ'D
2 - APRON ENWALLS REQ'D
1 - GEOTEXTILE FABRIC HR, (LT.), (9 SY) REQ'D
1 - PLACE RIPRAP, (LT.) (12' x 6') REQ'D
2 - MARKERS CULVERT END REQ'D

PC 876+00.83

SIGN

SIGN

864 866 868 870 872 874 876 878

STA. 873+80
1 - INLETS MEDIAN 2 GRATE REQ'D

WETLAND

WETLAND

STA. 870+20
1 - ASPHALTIC FLUME - REQ'D
1 - GEOTEXTILE FABRIC HR, (RT.), (9 SY) REQ'D
1 - PLACE RIPRAP, (RT.) (12' x 6') REQ'D

STA. 870+50
1 - INLETS MEDIAN 1 GRATE REQ'D

STA. 870+50
1 - INLETS 2 x 3 - FT - REQ'D
1 - INLET COVERS TYPE HM-GJ REQ'D
1 - INLET PROTECTION TYPE C REQ'D

STA. 873+80
1 - INLETS 2 x 3 - FT - REQ'D
1 - INLET COVERS TYPE HM-GJ REQ'D

STA. 876+75
1 - INLETS MEDIAN 1 GRATE REQ'D

STA. 876+75
1 - INLETS 2 x 3 - FT - REQ'D
1 - INLET COVERS TYPE HM-GJ REQ'D
1 - INLET PROTECTION TYPE C REQ'D

SEED, FERTILIZE, AND E-MAT EROSION MAT CLASS I, TYPE B

RIPRAP RIPRAP

RIPRAP

RUINS

2

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 43	E

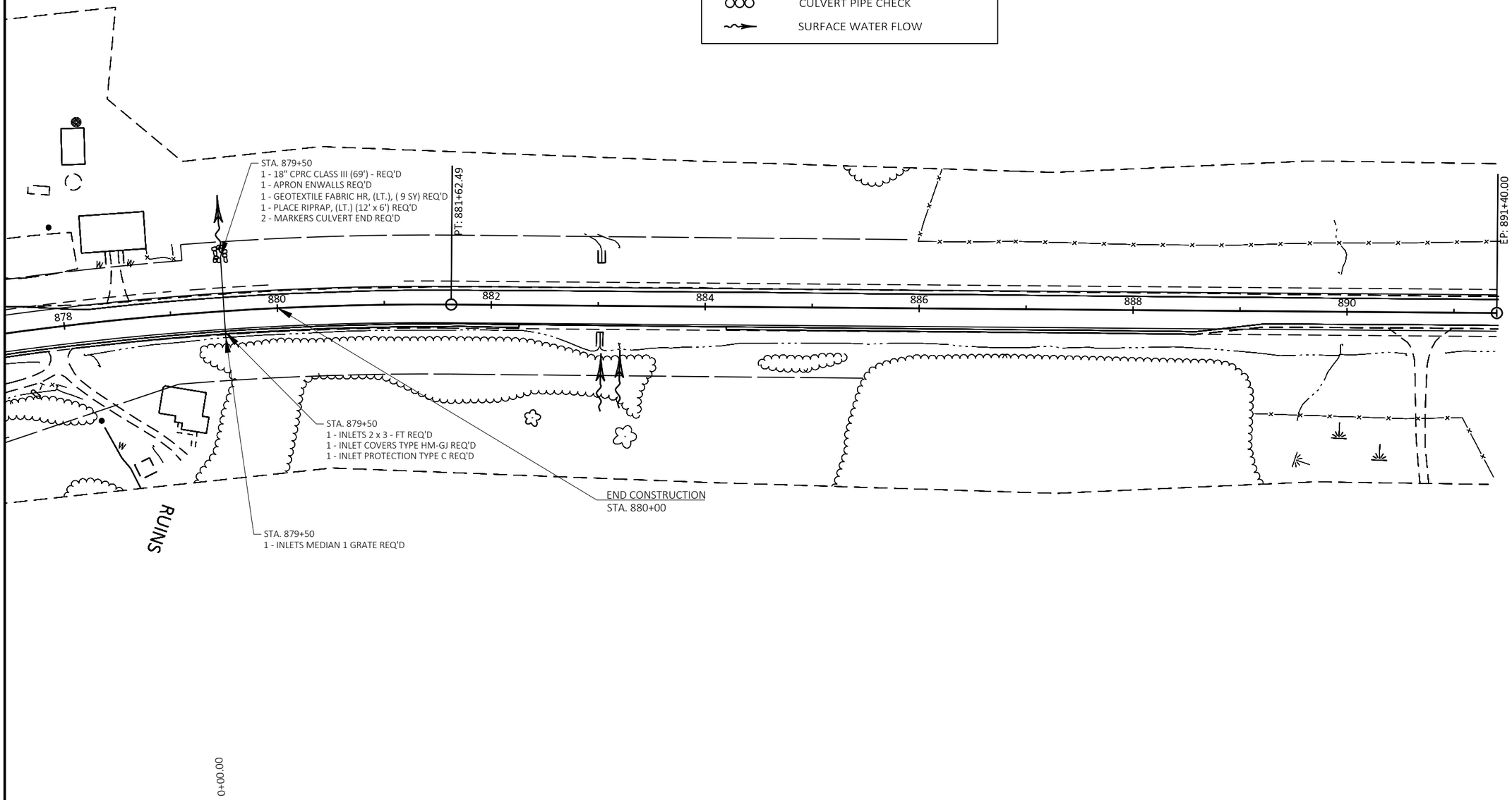
FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (29)
PLOT DATE : 11/17/2020 10:24 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIP RAP
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	EROSION CONTROL	SHEET 44	E

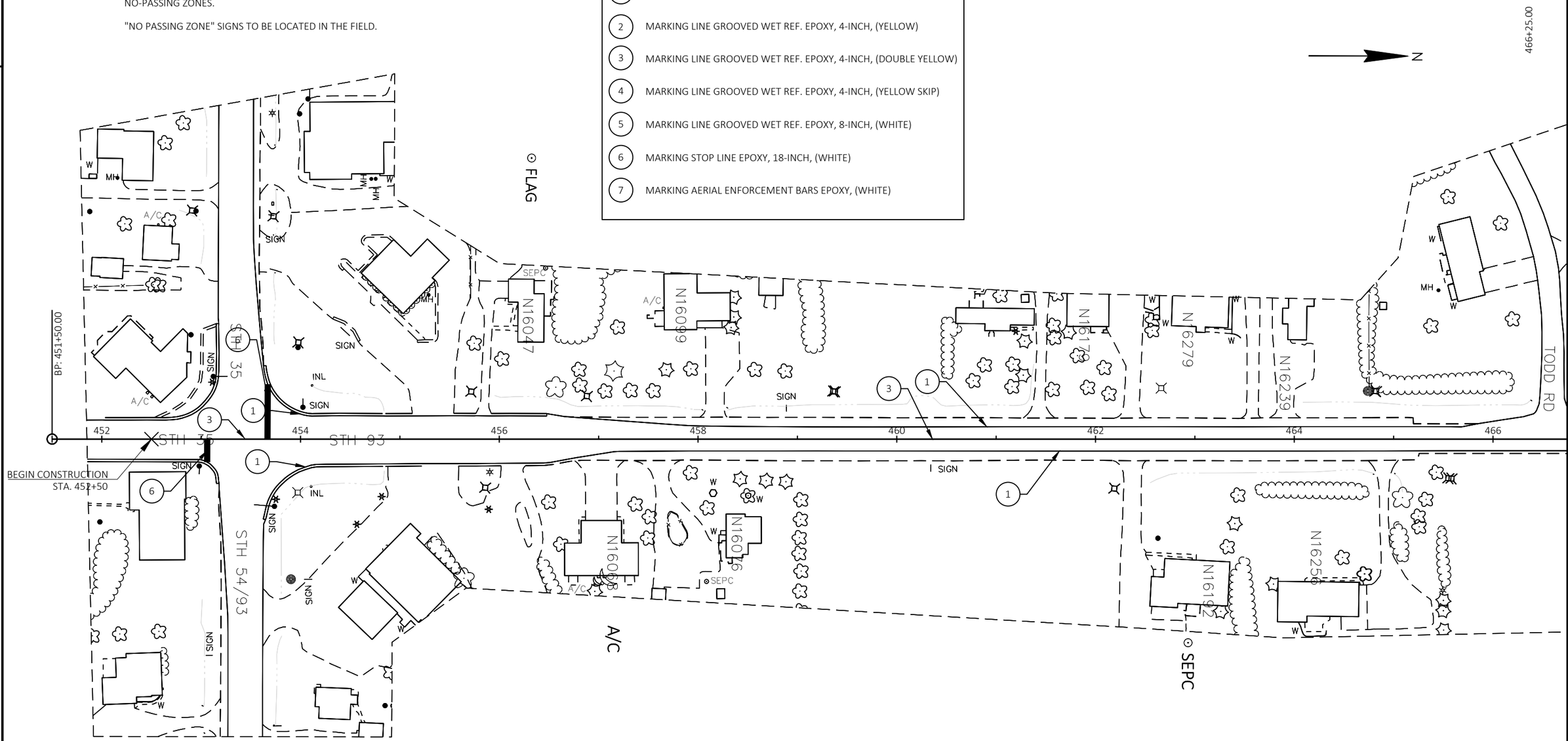
FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - ECt - (30)

PLOT DATE : 11/17/2020 10:25 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 45 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (1)

PLOT DATE : 9/12/2020 4:41 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

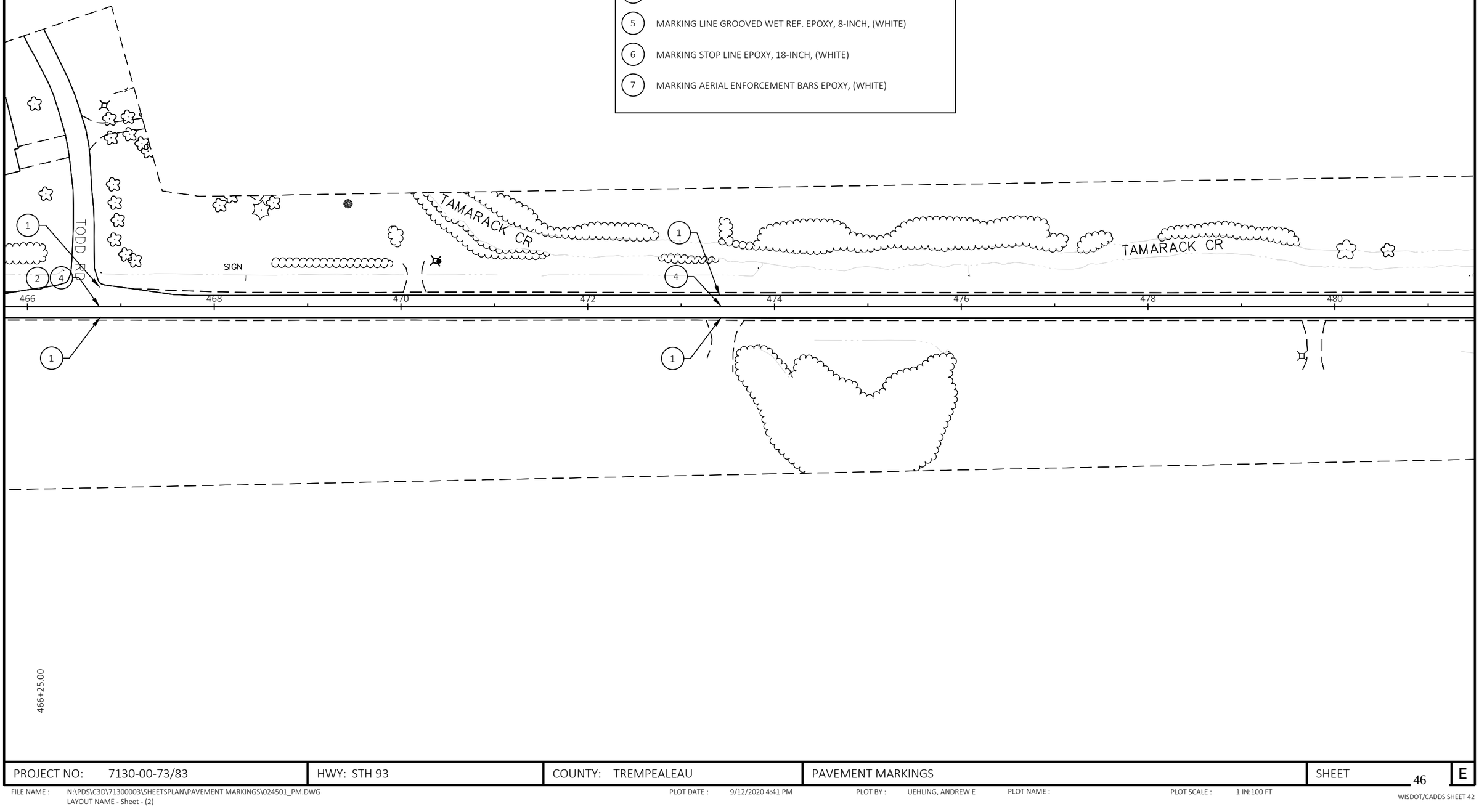
NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)

481+00.00

N



466+25.00

2

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 46	E

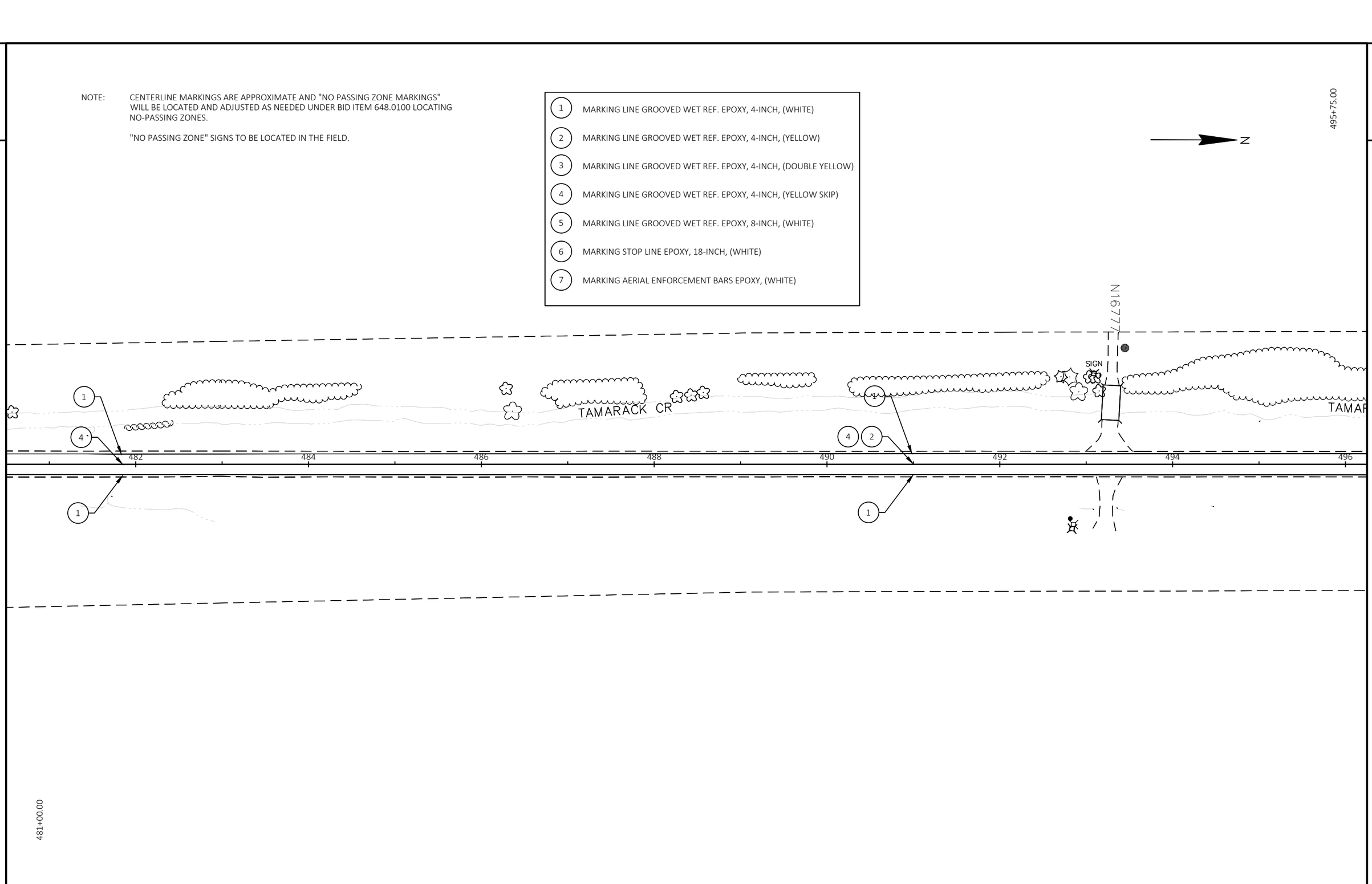
FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (2)

PLOT DATE : 9/12/2020 4:41 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 47	E

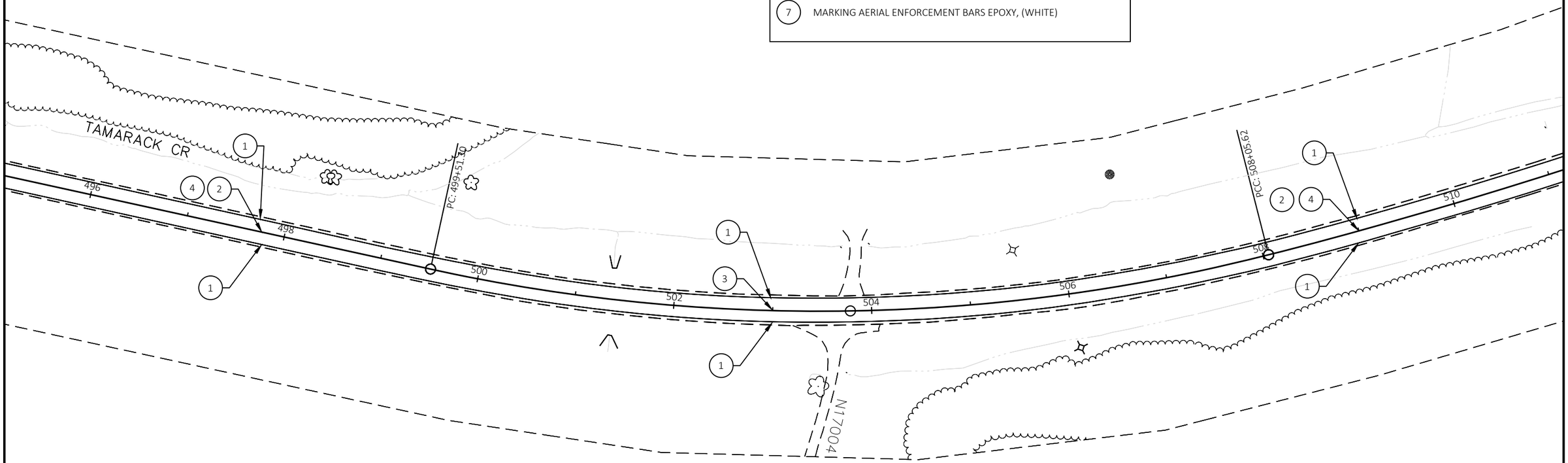
FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (3)

PLOT DATE : 9/12/2020 4:41 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

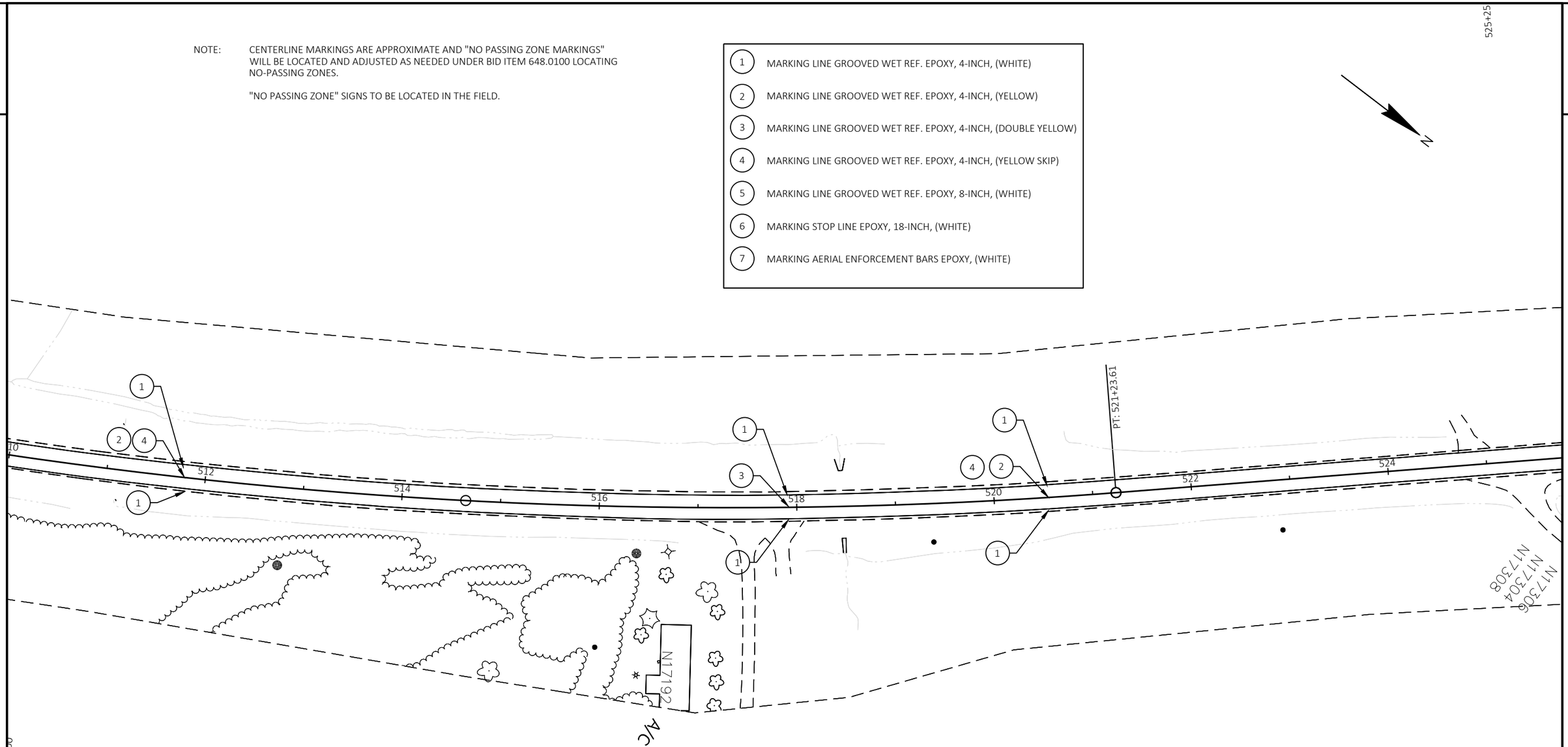
1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



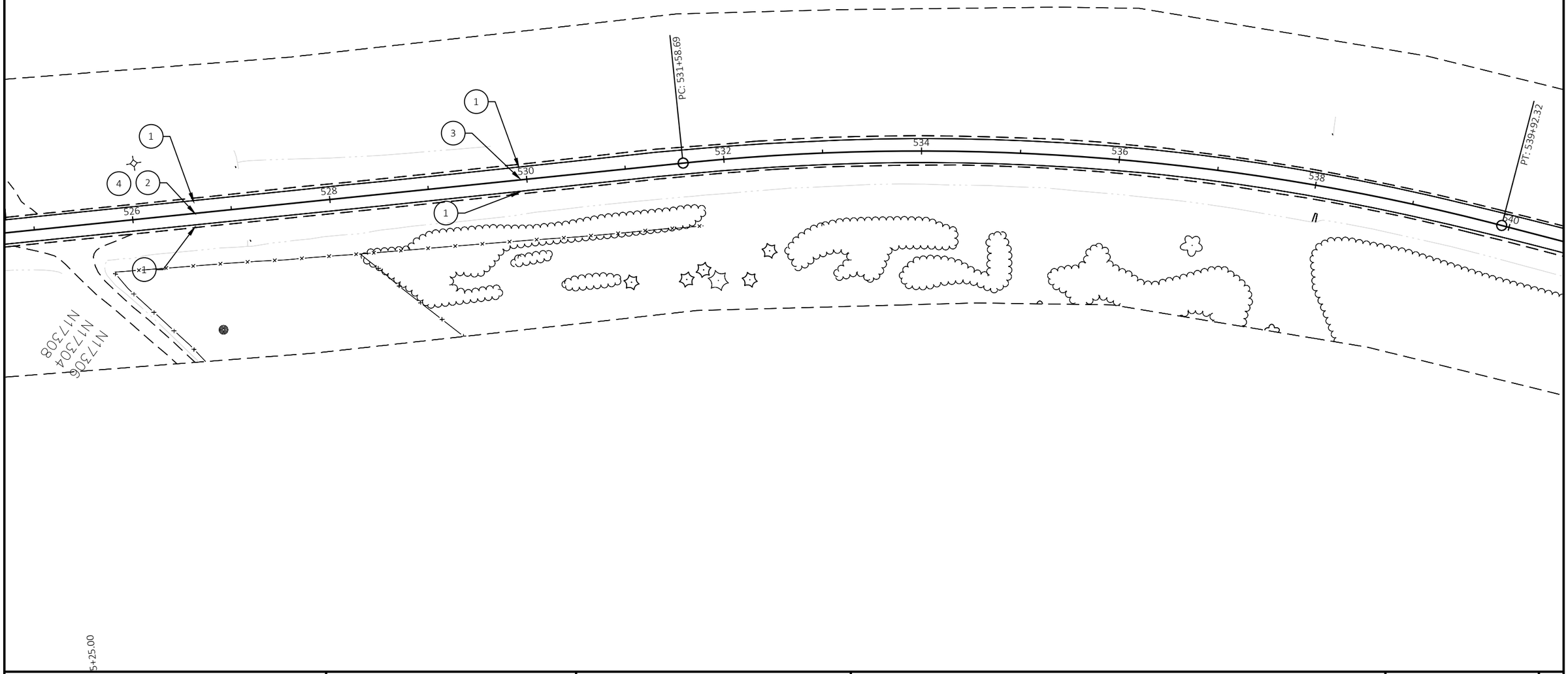
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 49 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (5)
PLOT DATE : 9/12/2020 4:42 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



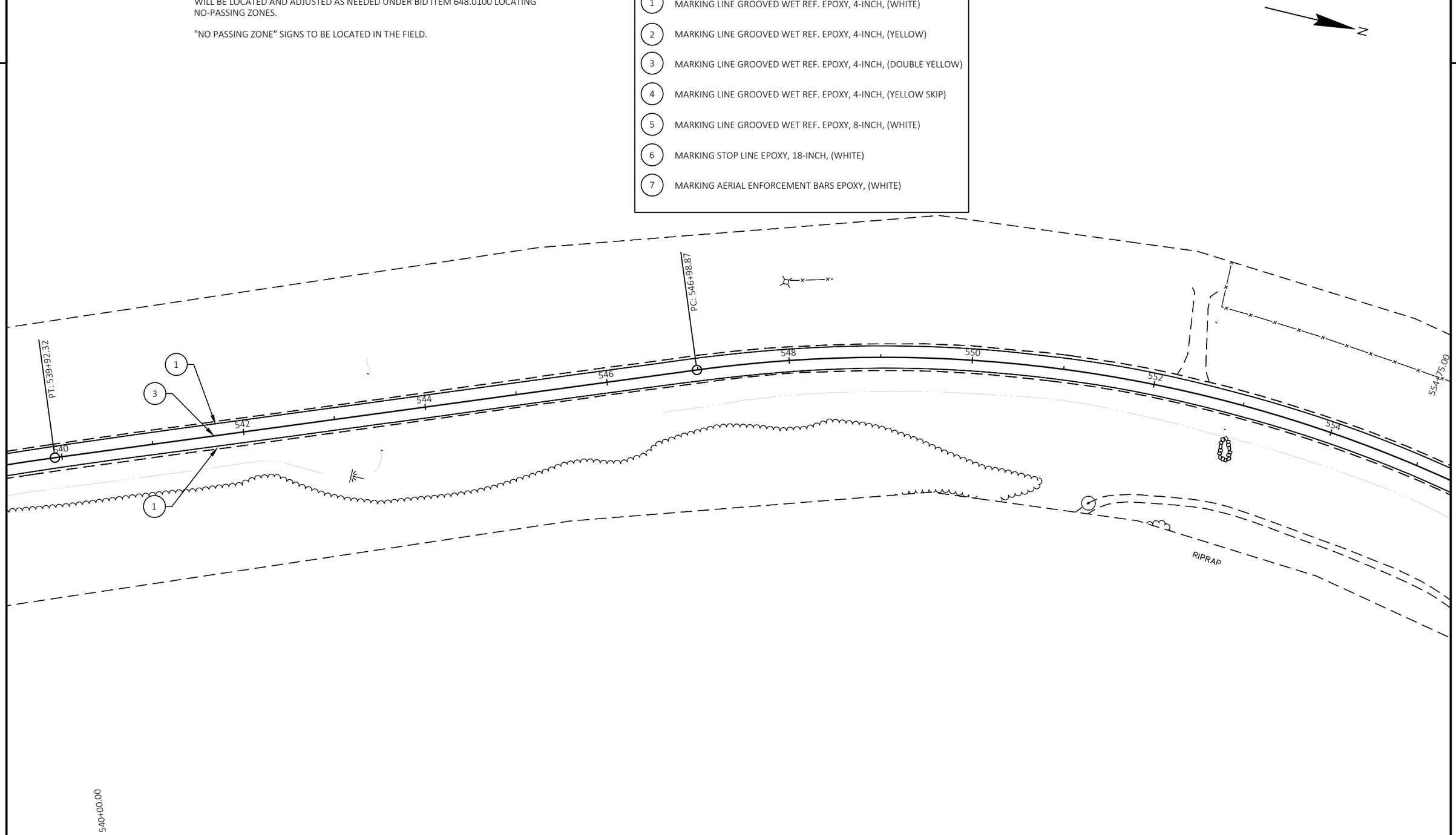
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 50 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (6)
PLOT DATE : 9/12/2020 4:42 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

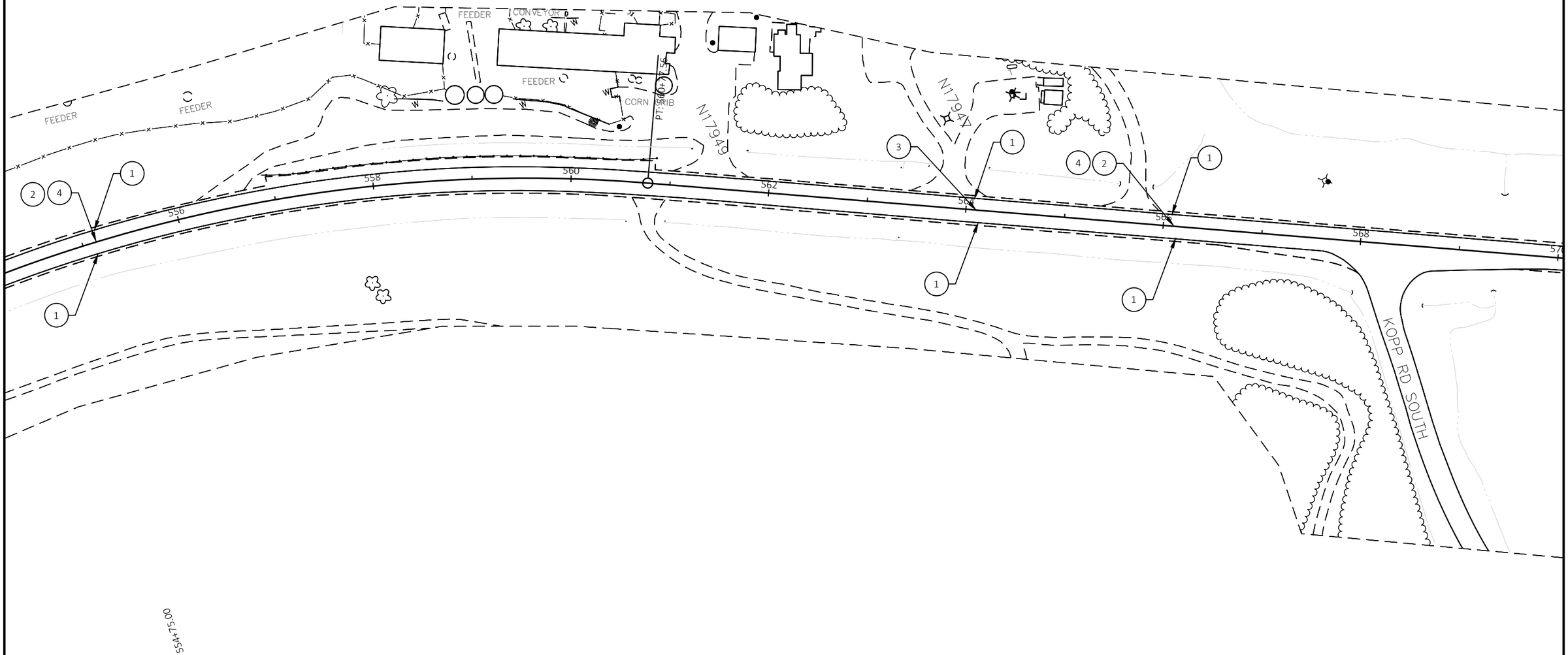
1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



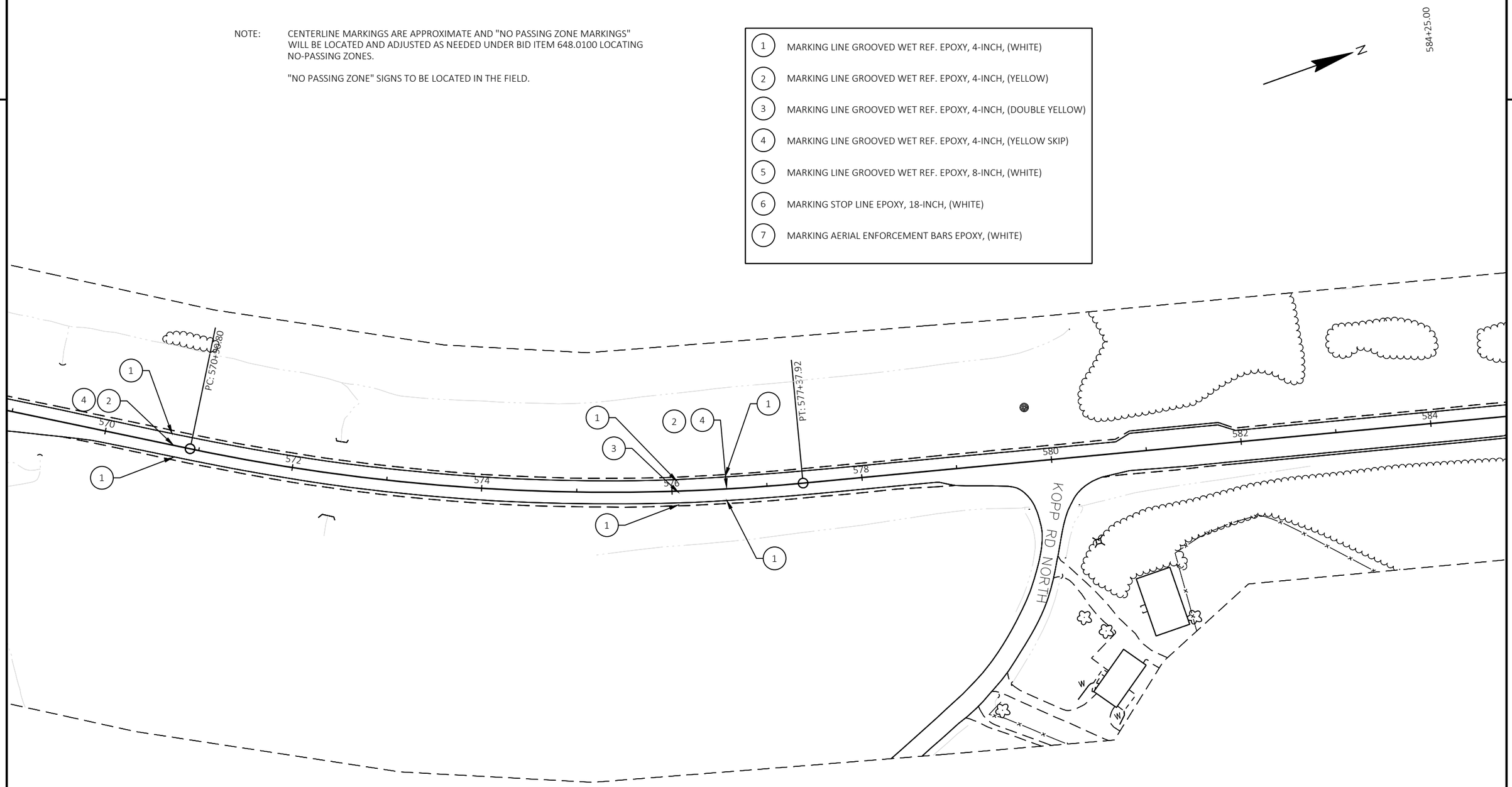
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 52 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (8)
PLOT DATE : 9/12/2020 4:43 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

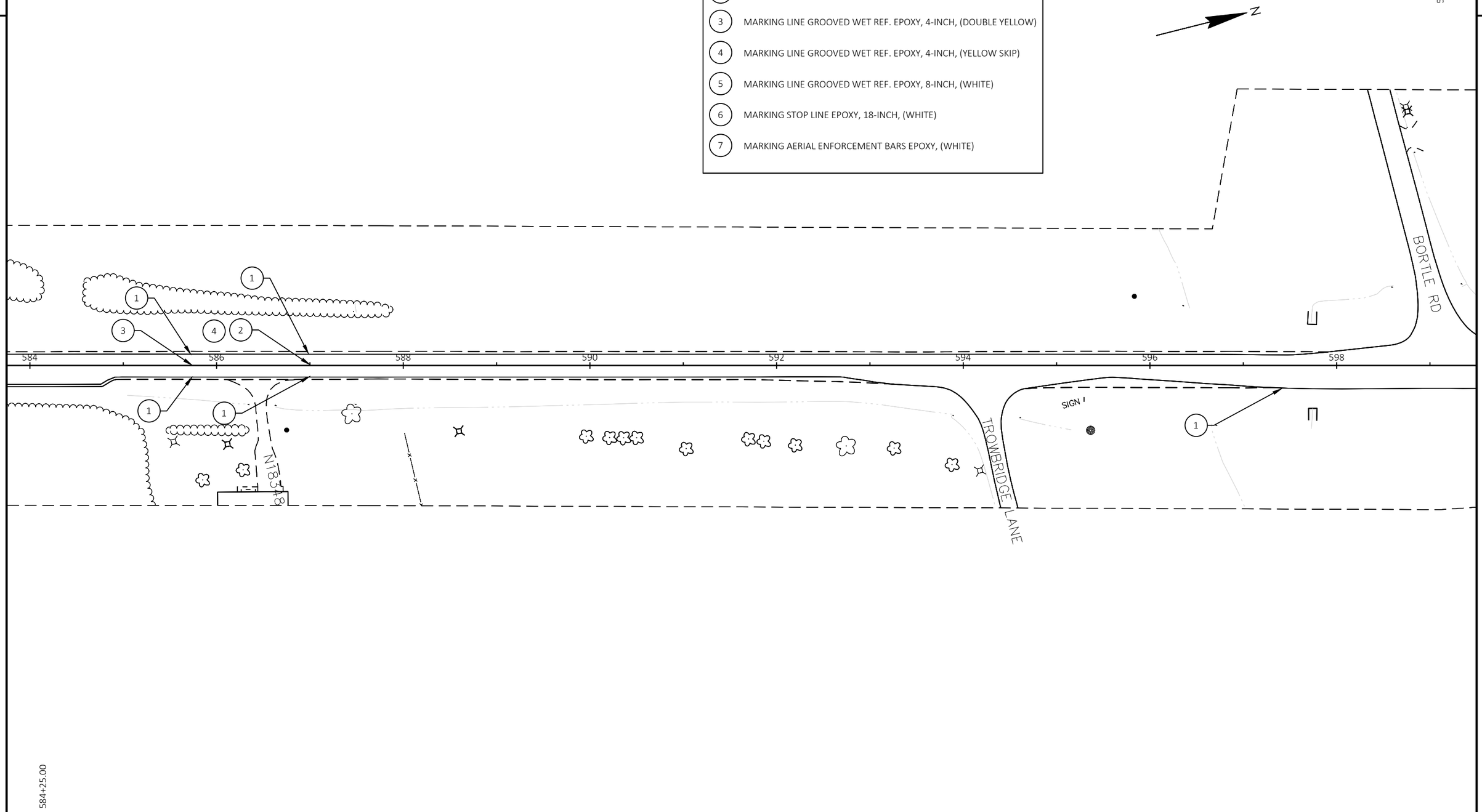
1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)

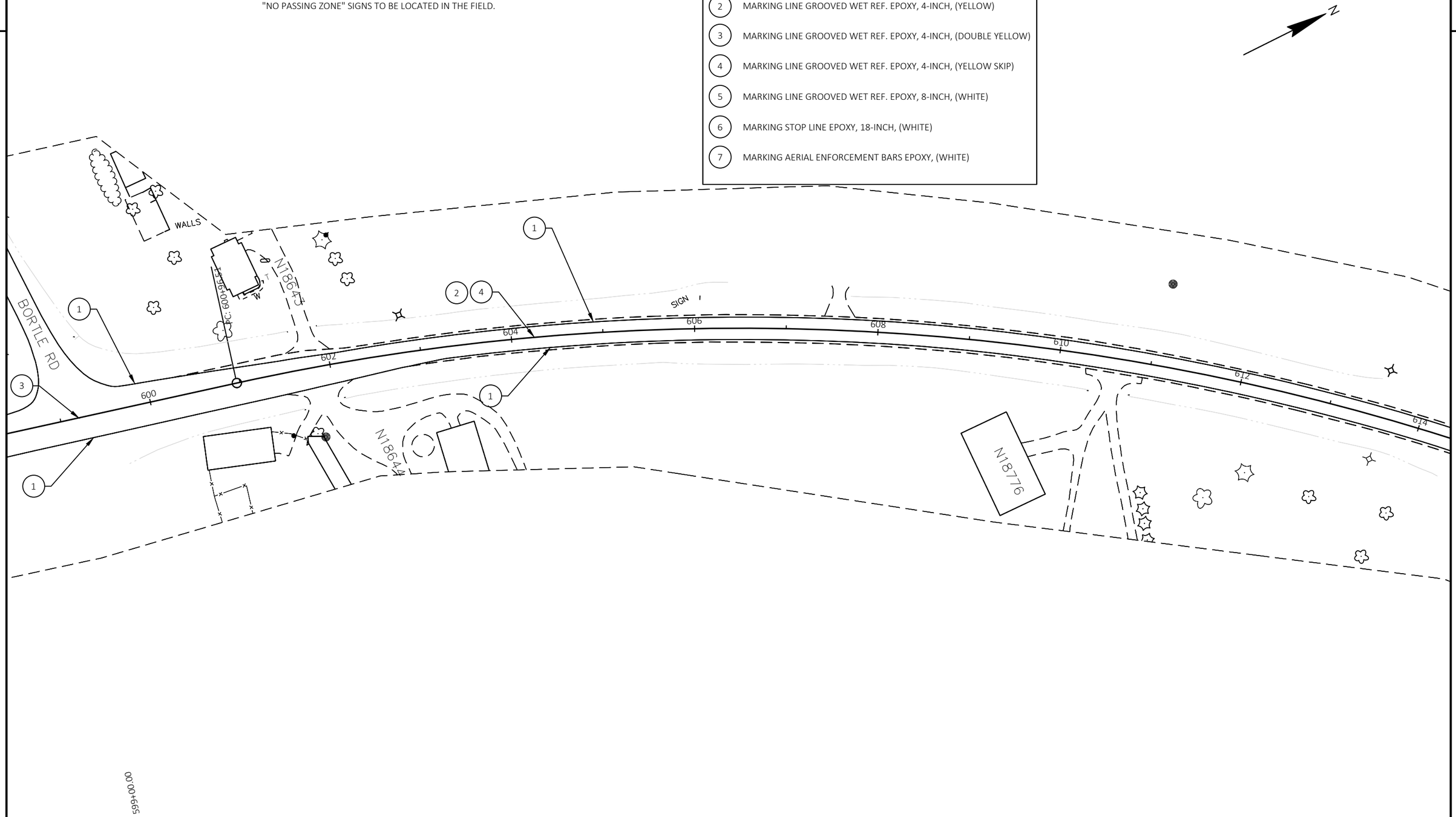


PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 54 E

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



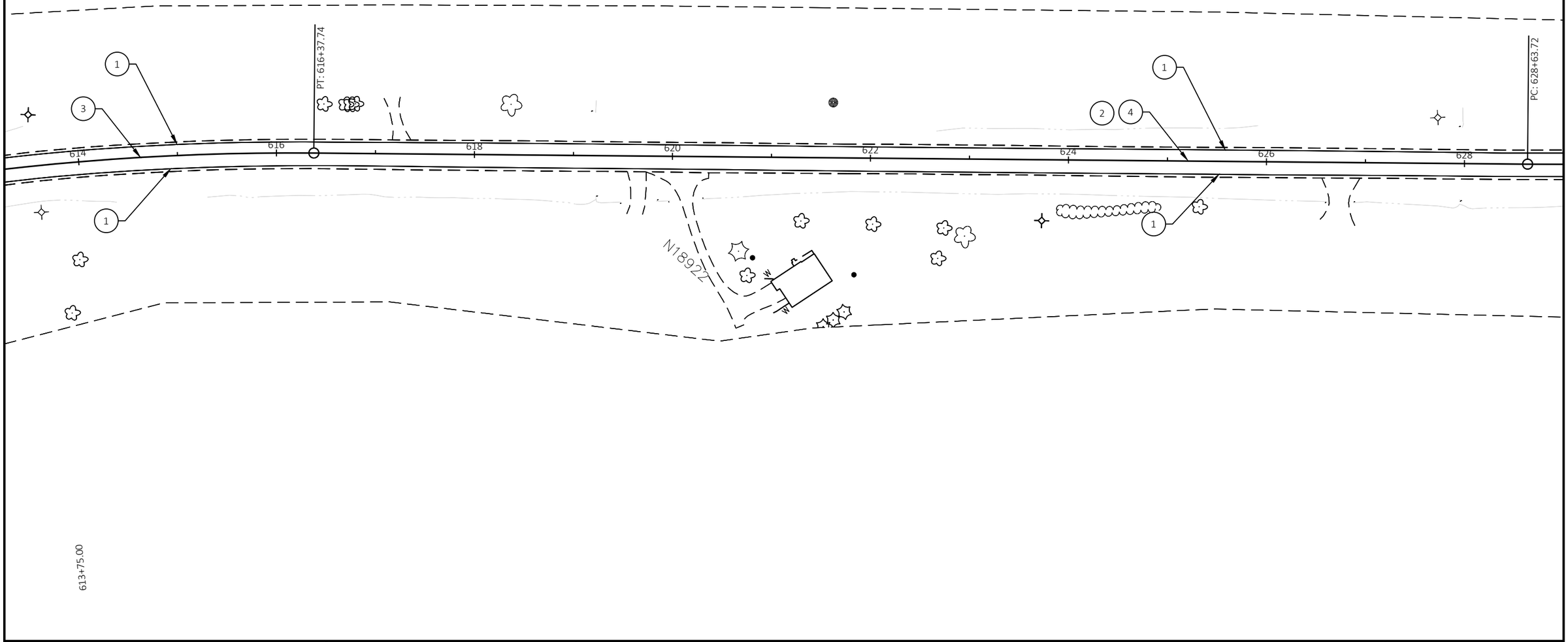
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 55 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (11)
PLOT DATE : 9/12/2020 4:44 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



2

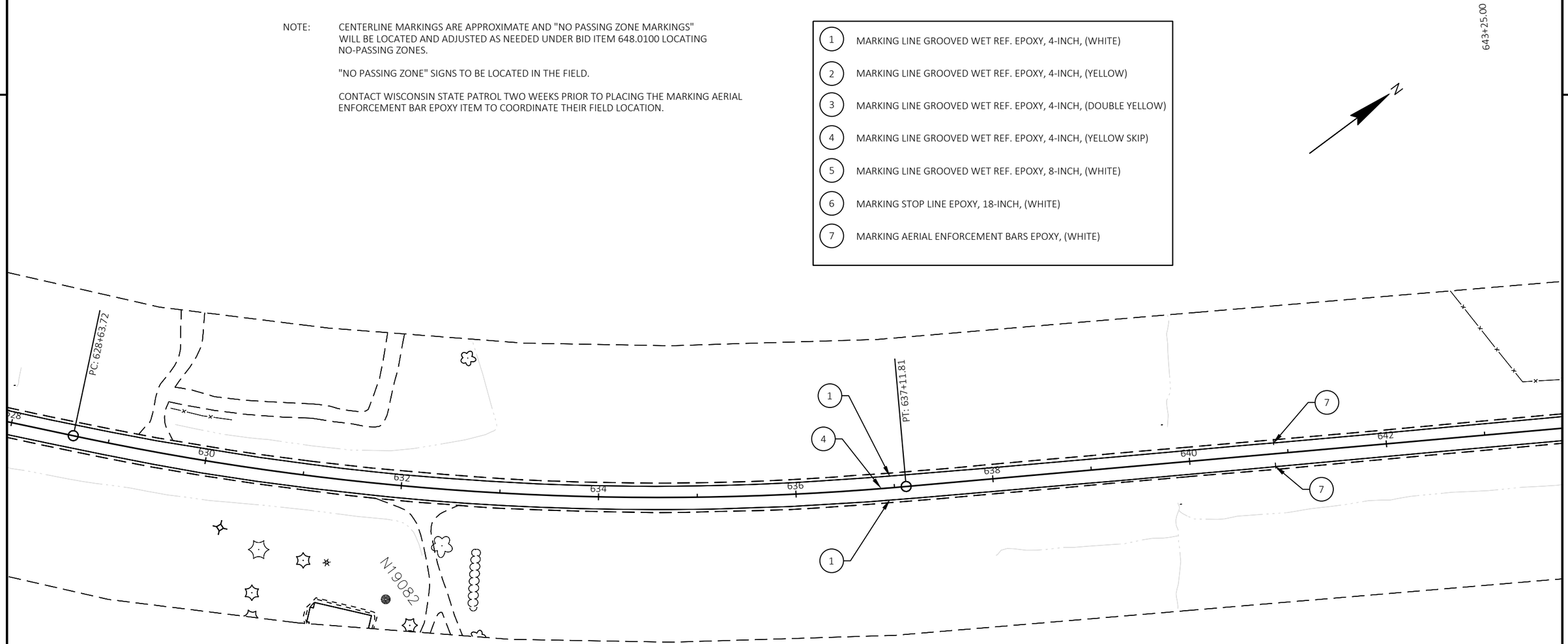
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 56	E

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

CONTACT WISCONSIN STATE PATROL TWO WEEKS PRIOR TO PLACING THE MARKING AERIAL ENFORCEMENT BAR EPOXY ITEM TO COORDINATE THEIR FIELD LOCATION.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 57 E

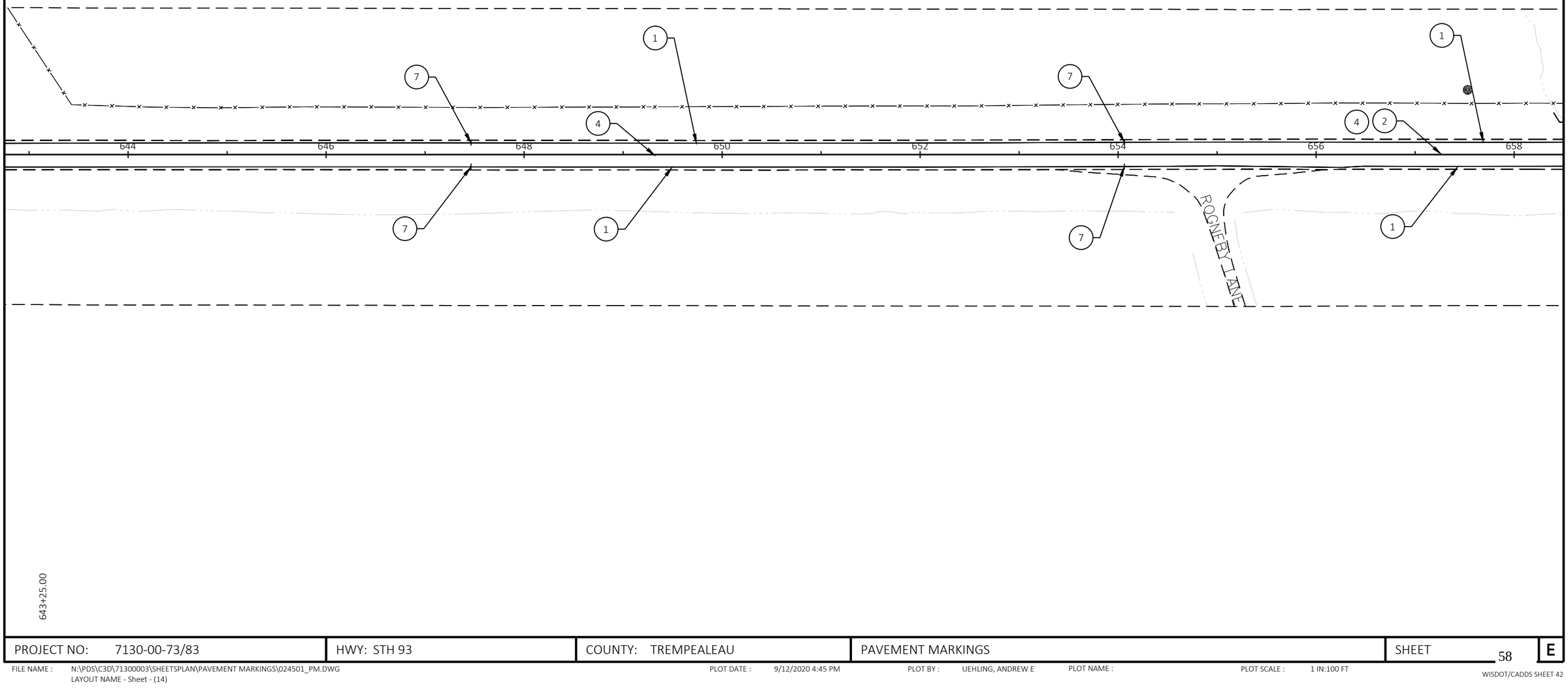
FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (13)
PLOT DATE : 9/12/2020 4:45 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

CONTACT WISCONSIN STATE PATROL TWO WEEKS PRIOR TO PLACING THE MARKING AERIAL ENFORCEMENT BAR EPOXY ITEM TO COORDINATE THEIR FIELD LOCATION.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 58 E

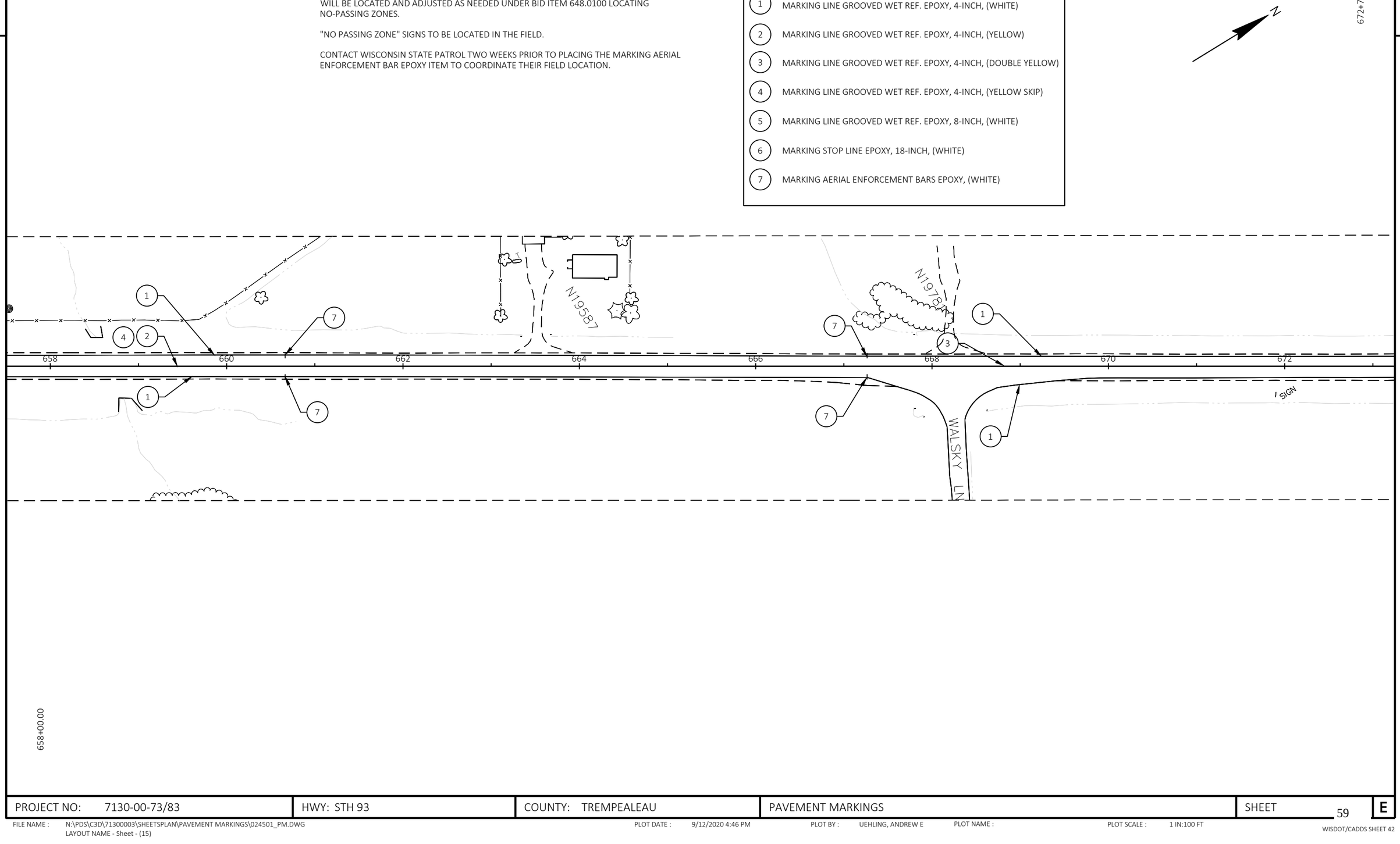
FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (14)
PLOT DATE : 9/12/2020 4:45 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

CONTACT WISCONSIN STATE PATROL TWO WEEKS PRIOR TO PLACING THE MARKING AERIAL ENFORCEMENT BAR EPOXY ITEM TO COORDINATE THEIR FIELD LOCATION.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



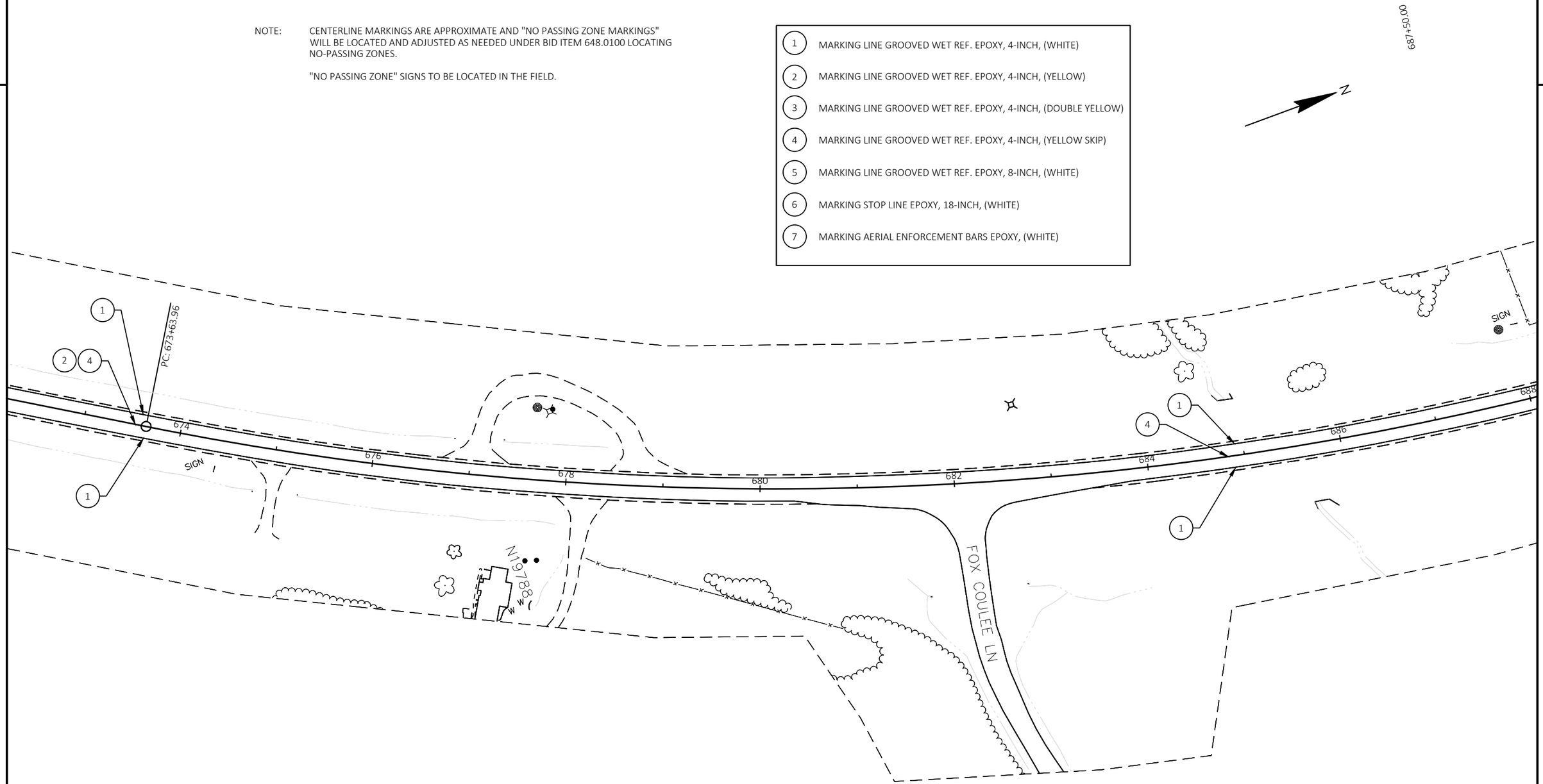
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 59 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (15)
PLOT DATE : 9/12/2020 4:46 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

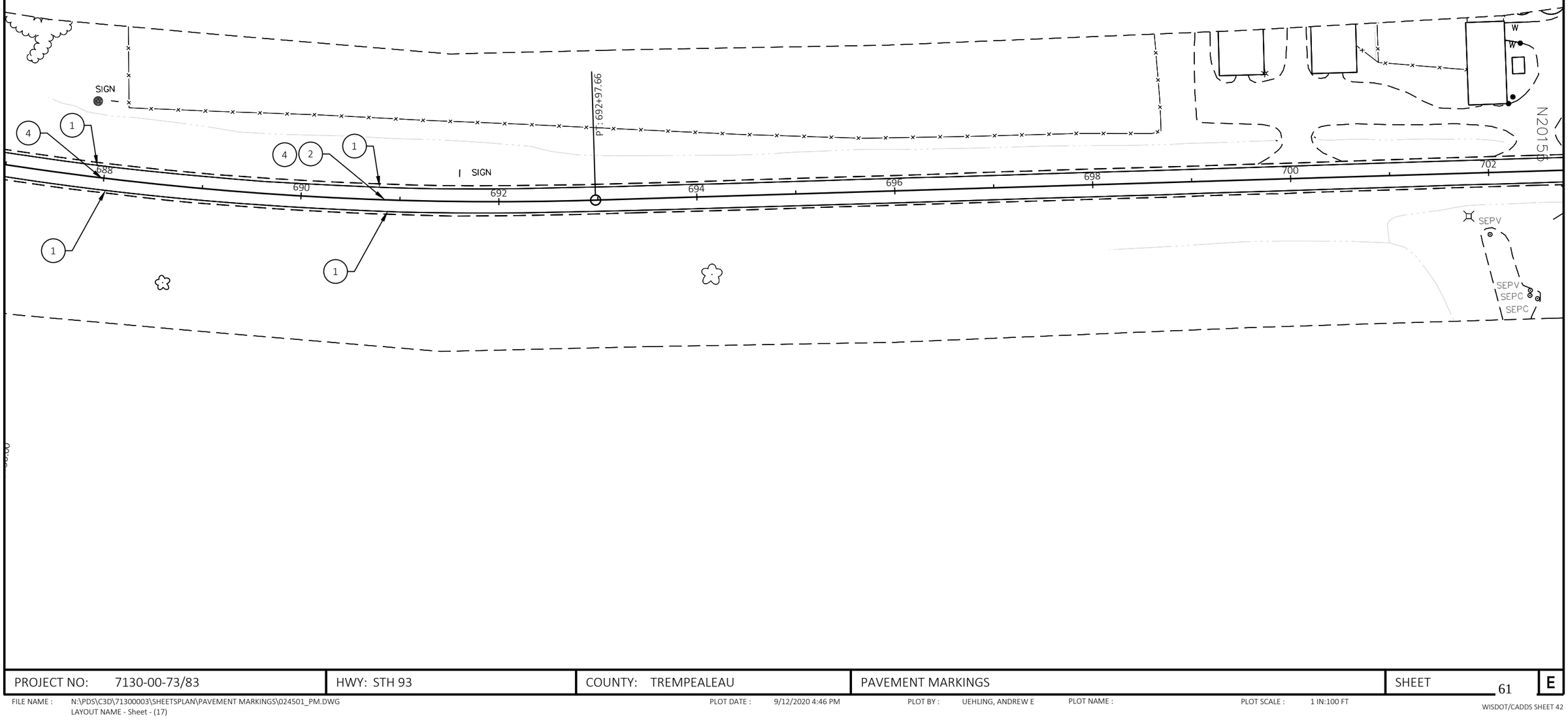
1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

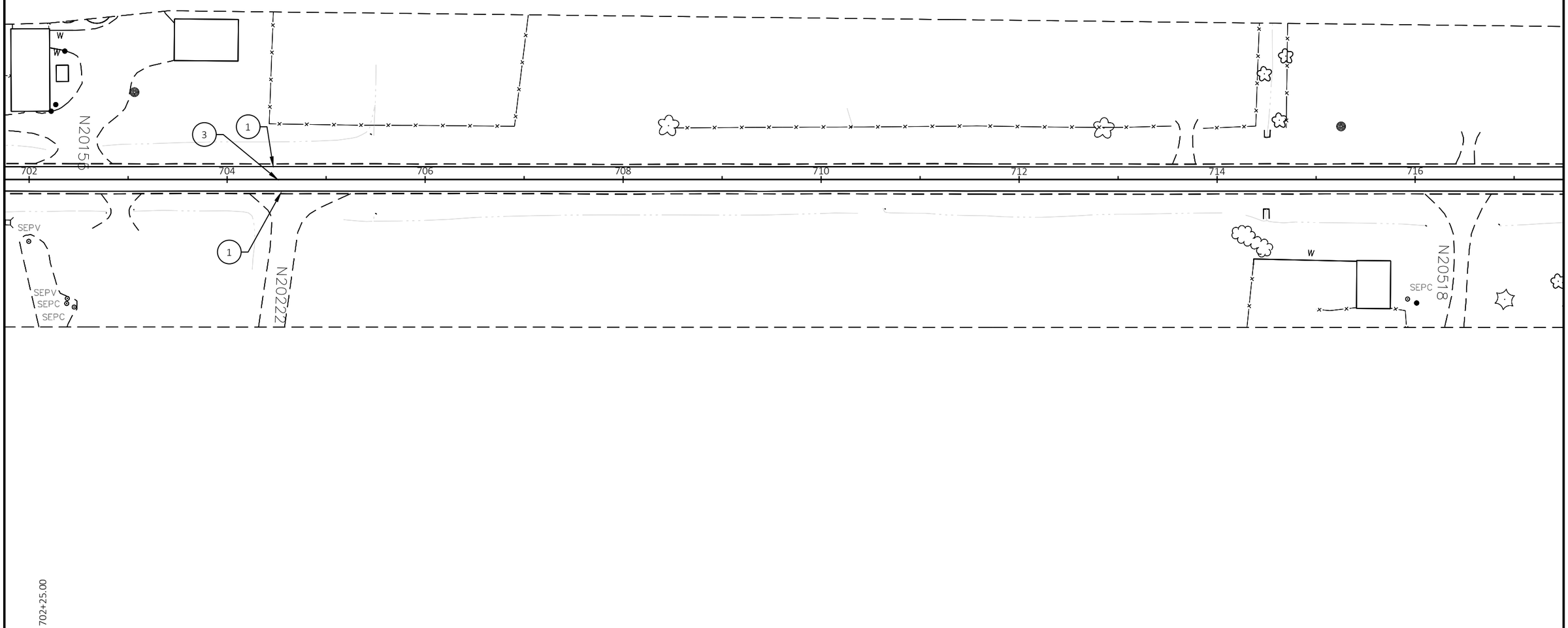
1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)

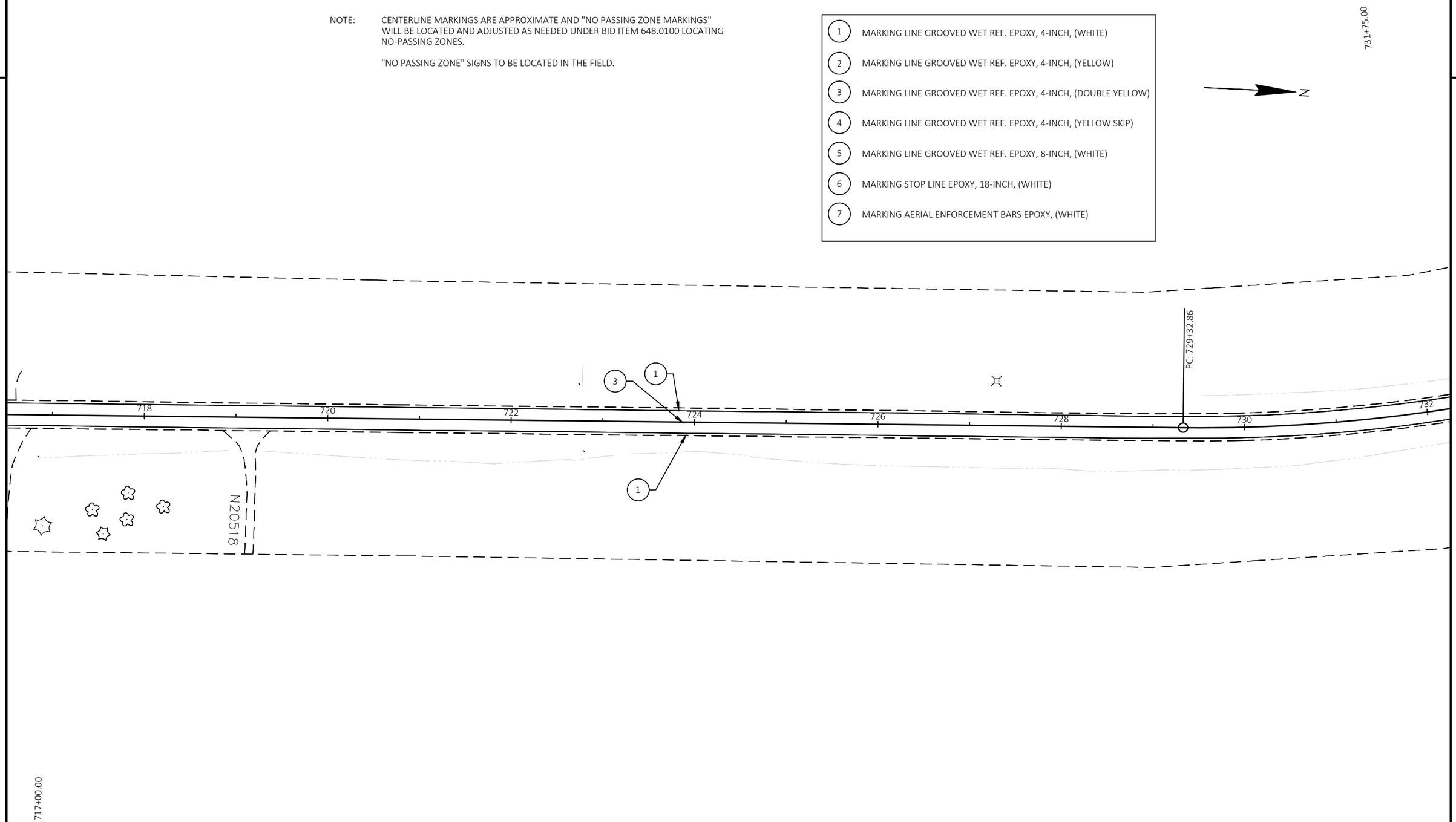


PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 62	E

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



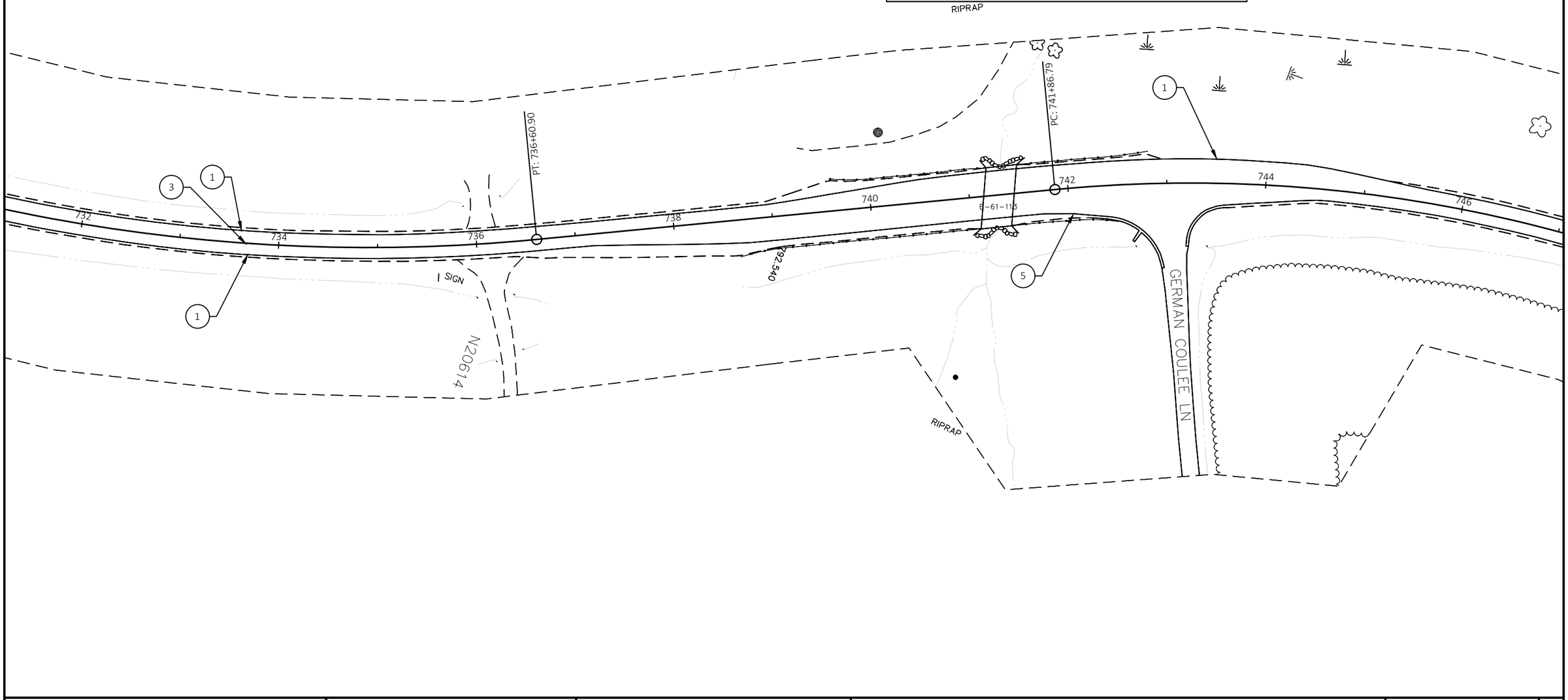
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 63	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (19)
PLOT DATE : 9/12/2020 4:47 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

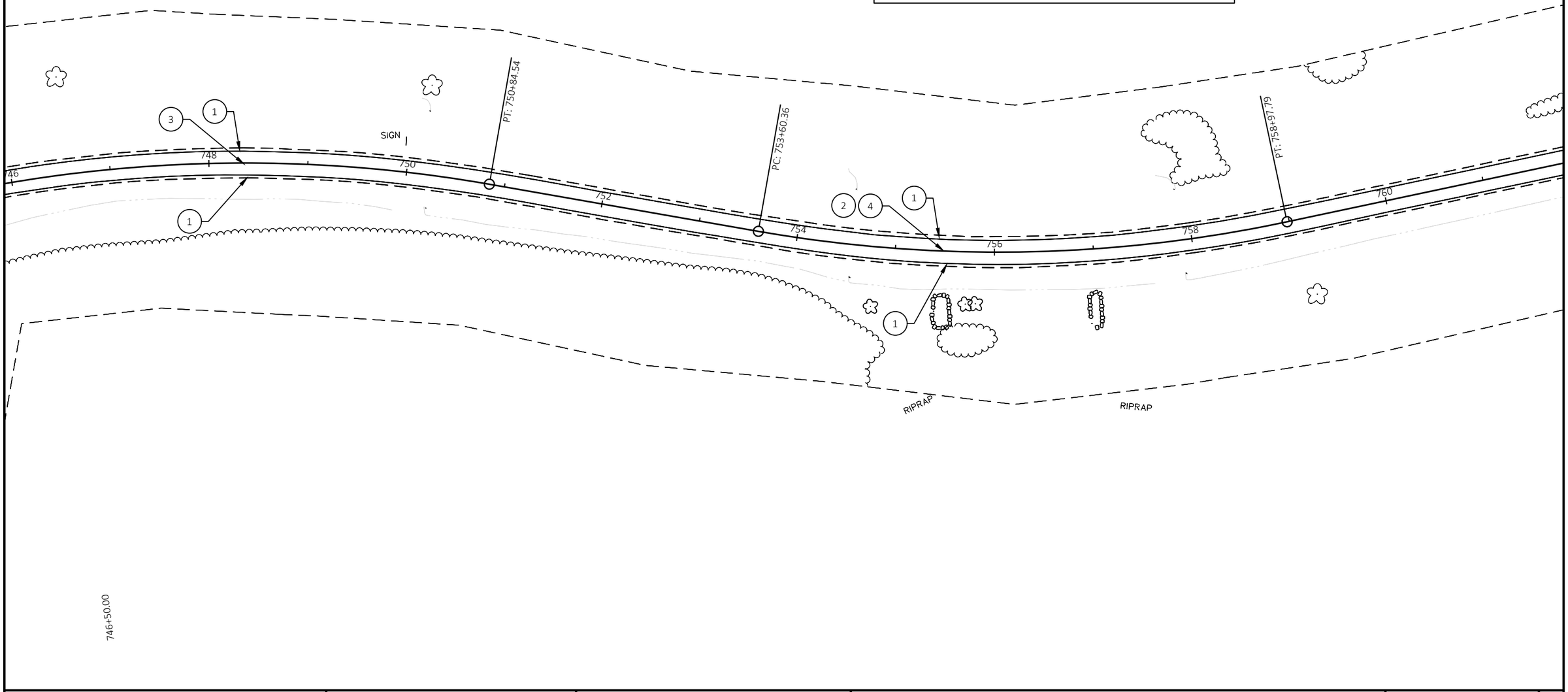
1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



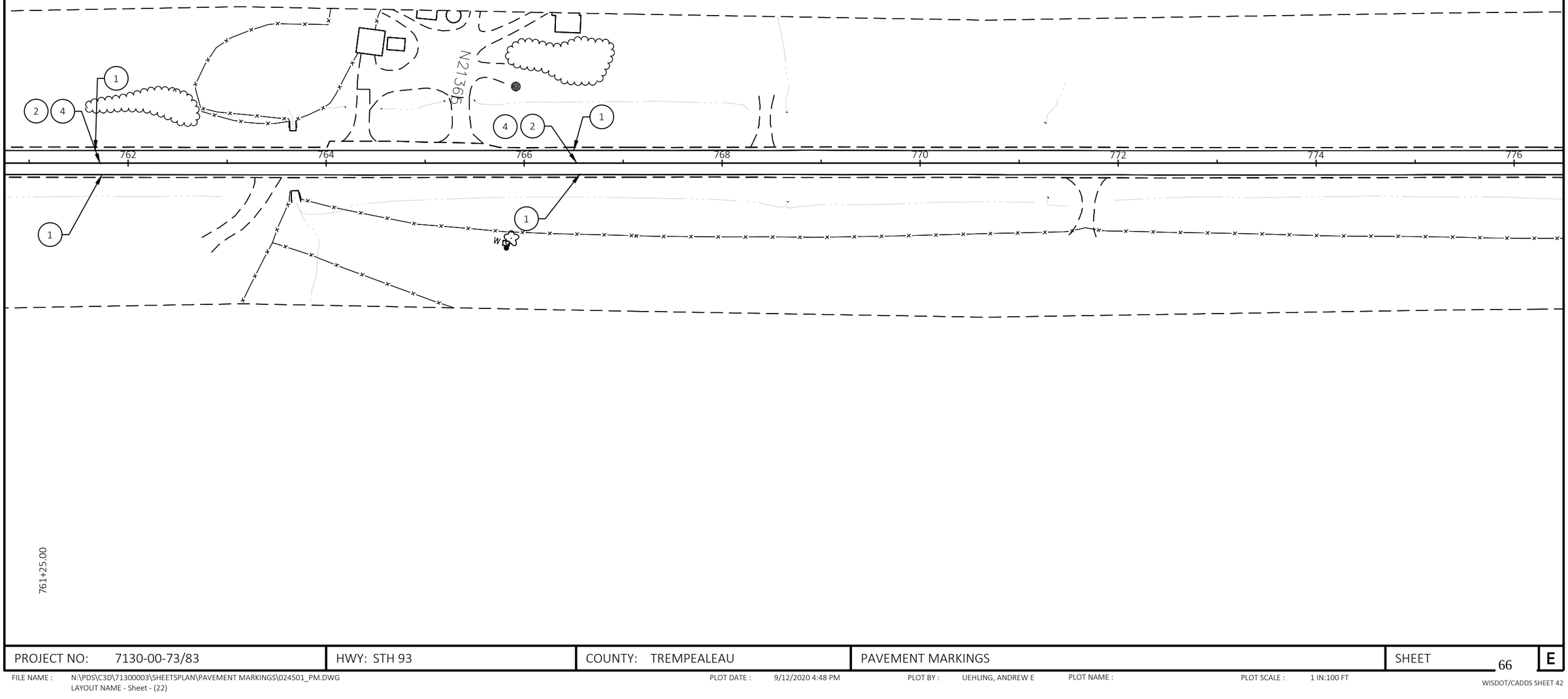
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 65 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (21)
PLOT DATE : 9/12/2020 4:48 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 66 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (22)

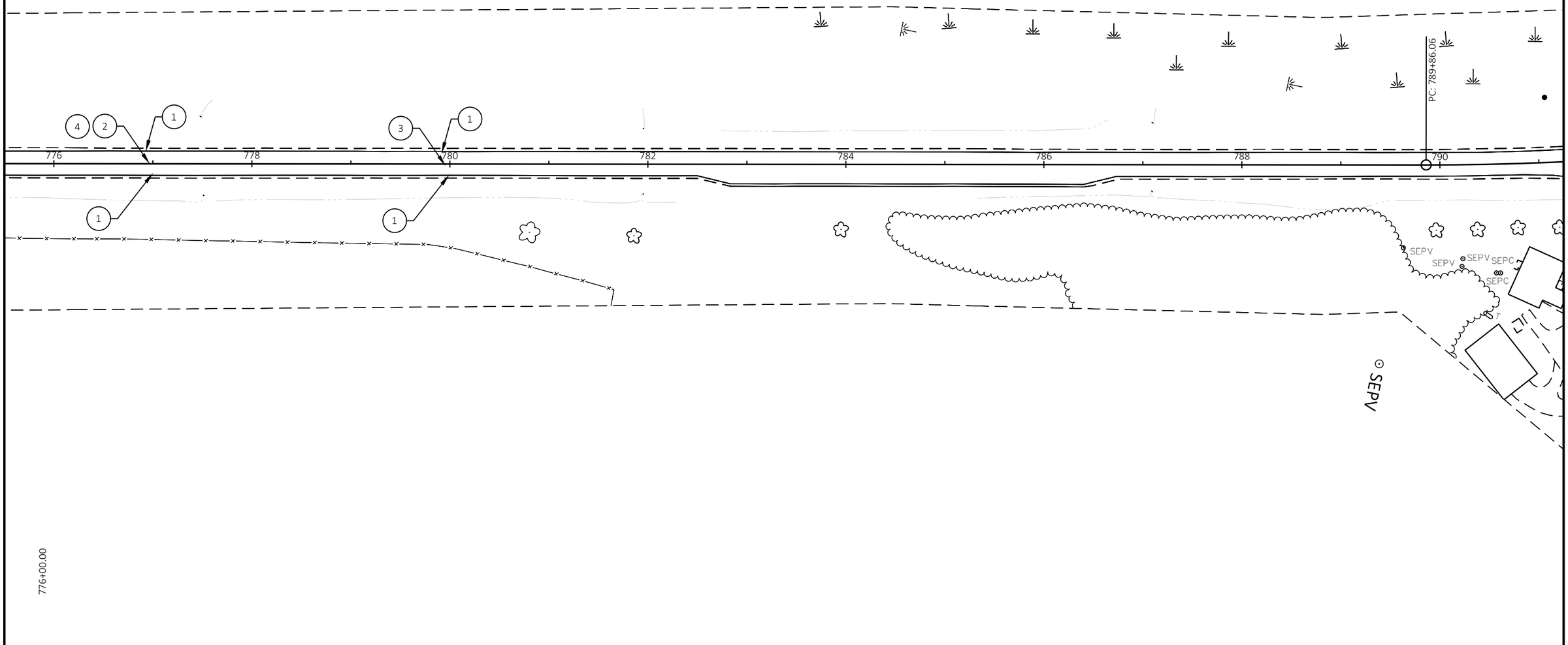
PLOT DATE : 9/12/2020 4:48 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



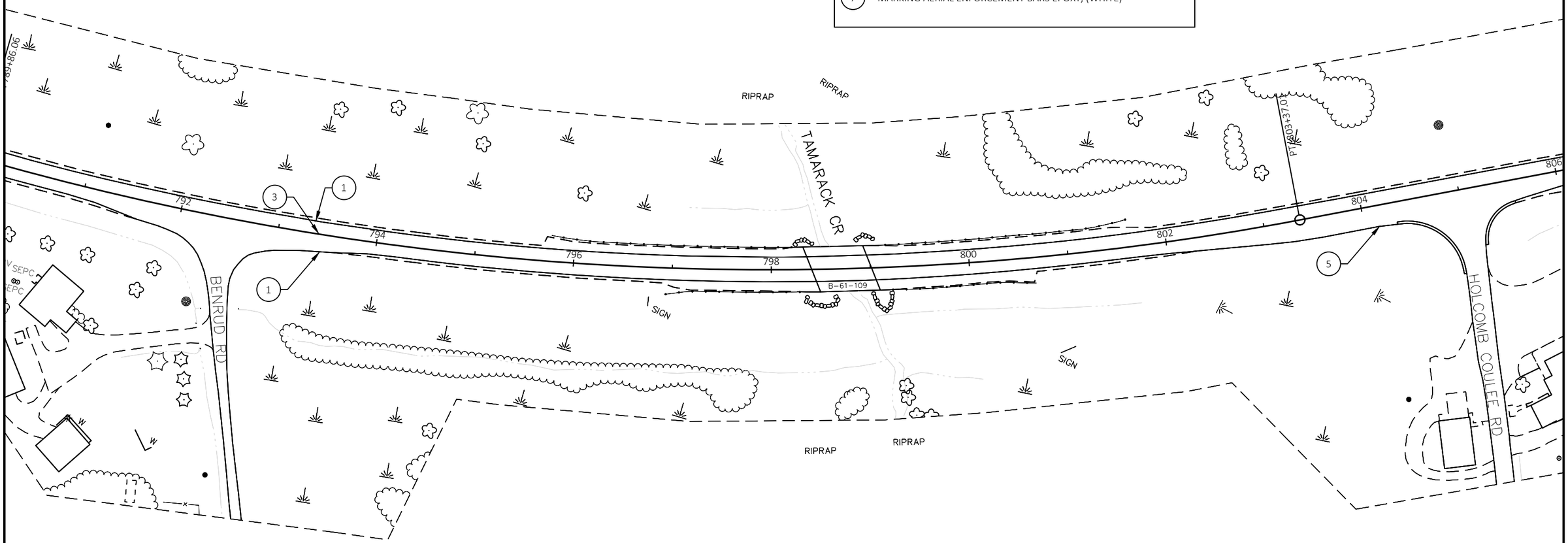
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 67 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (23)
PLOT DATE : 9/12/2020 4:49 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



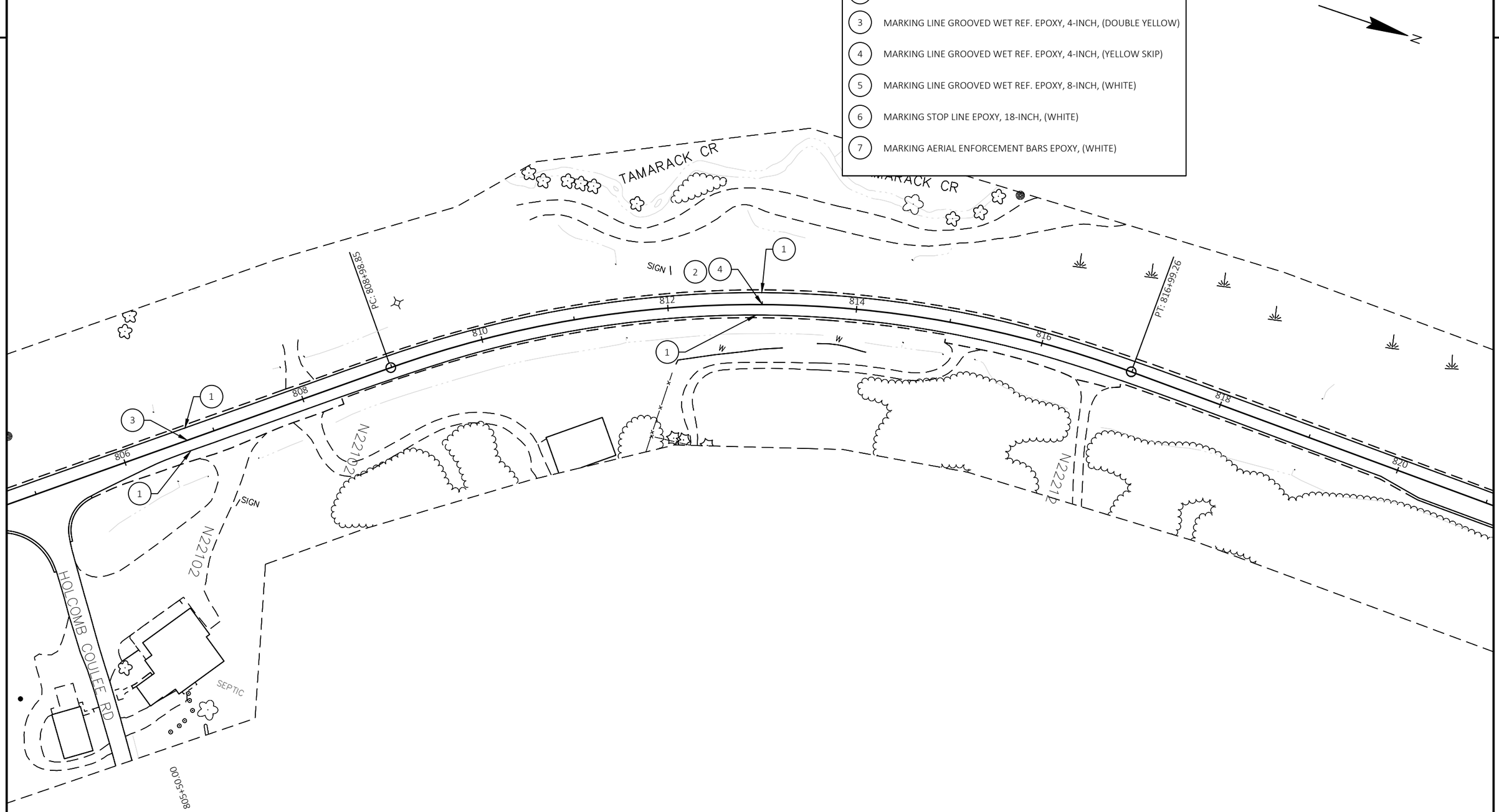
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 68 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (24)
PLOT DATE : 9/12/2020 4:49 PM
PLOT BY : UEHLING, ANDREW E
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1. MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2. MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3. MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4. MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5. MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6. MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7. MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 69	E

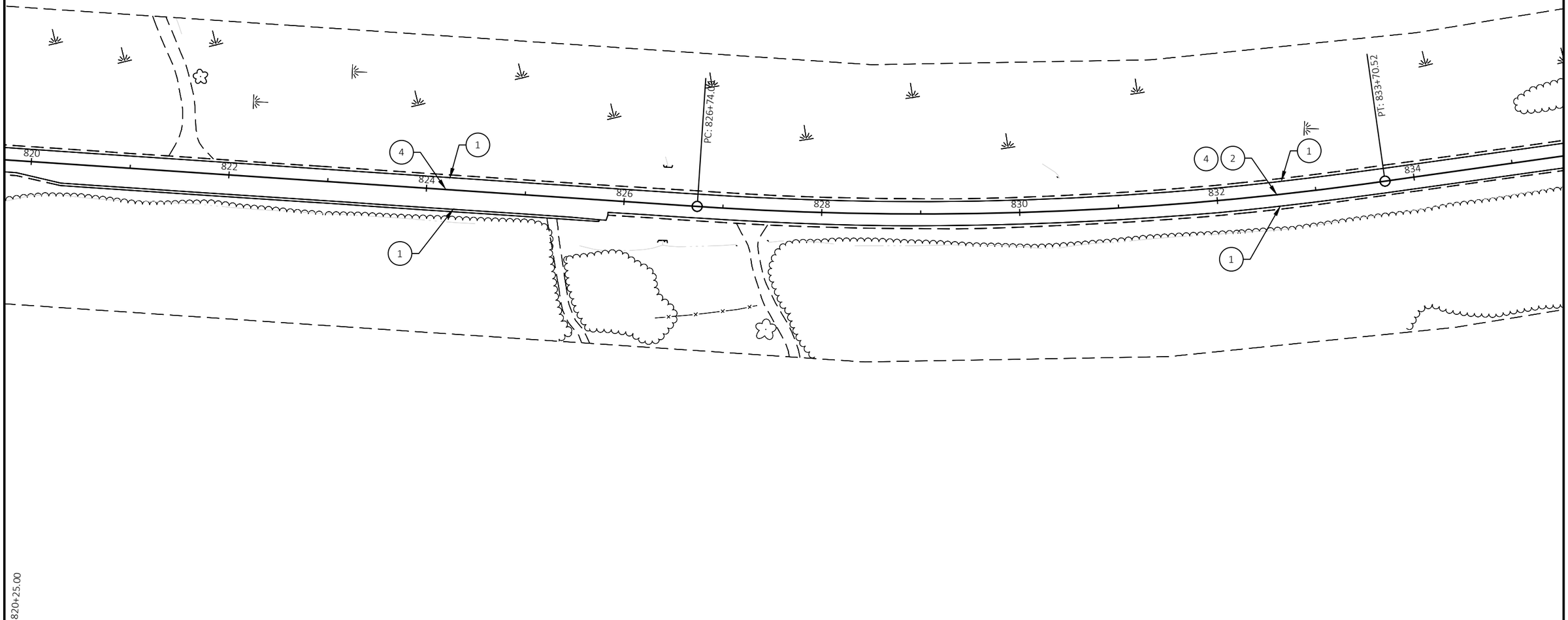
NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)

N

835+00.00



820+25.00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 70 E

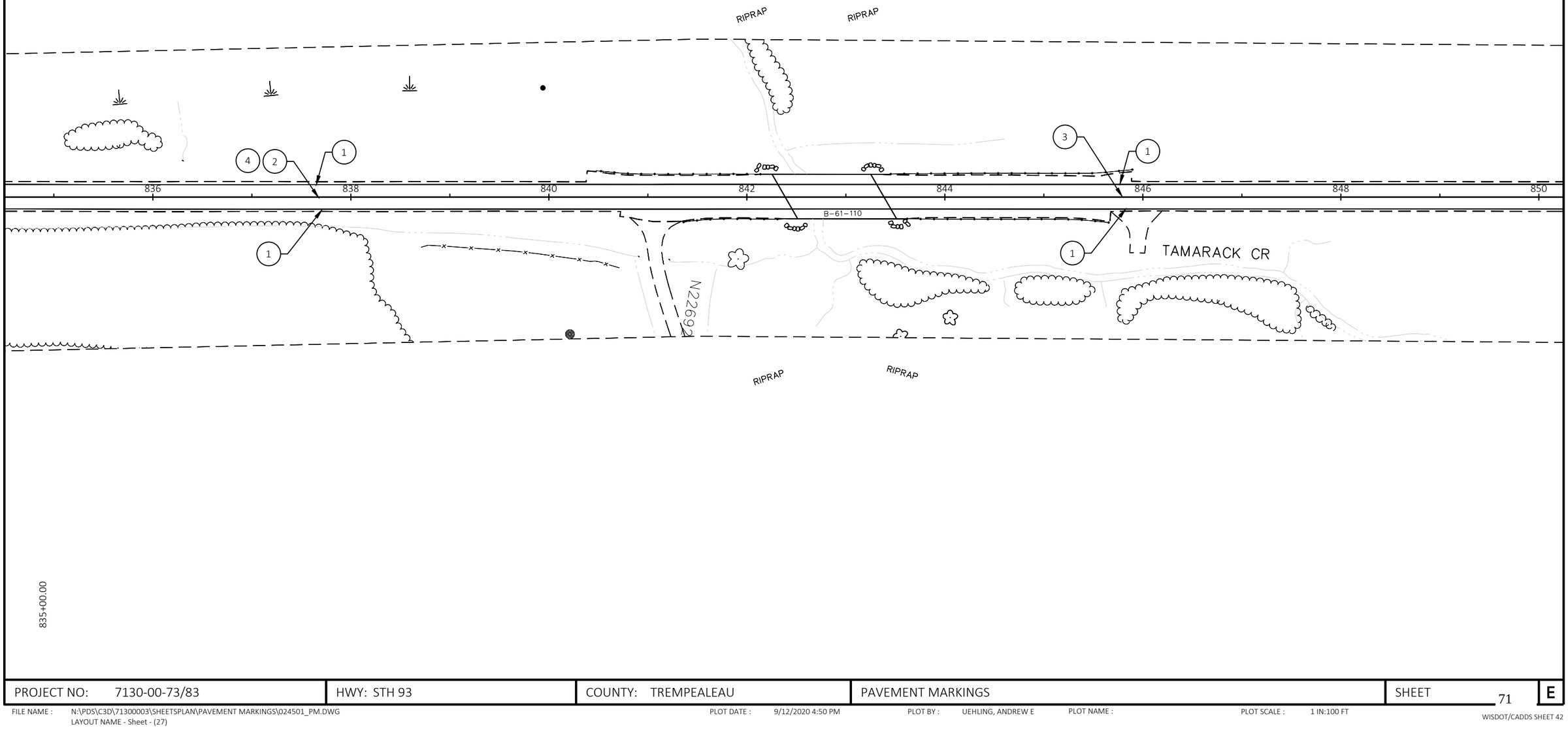
FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (26)

PLOT DATE : 9/12/2020 4:50 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)

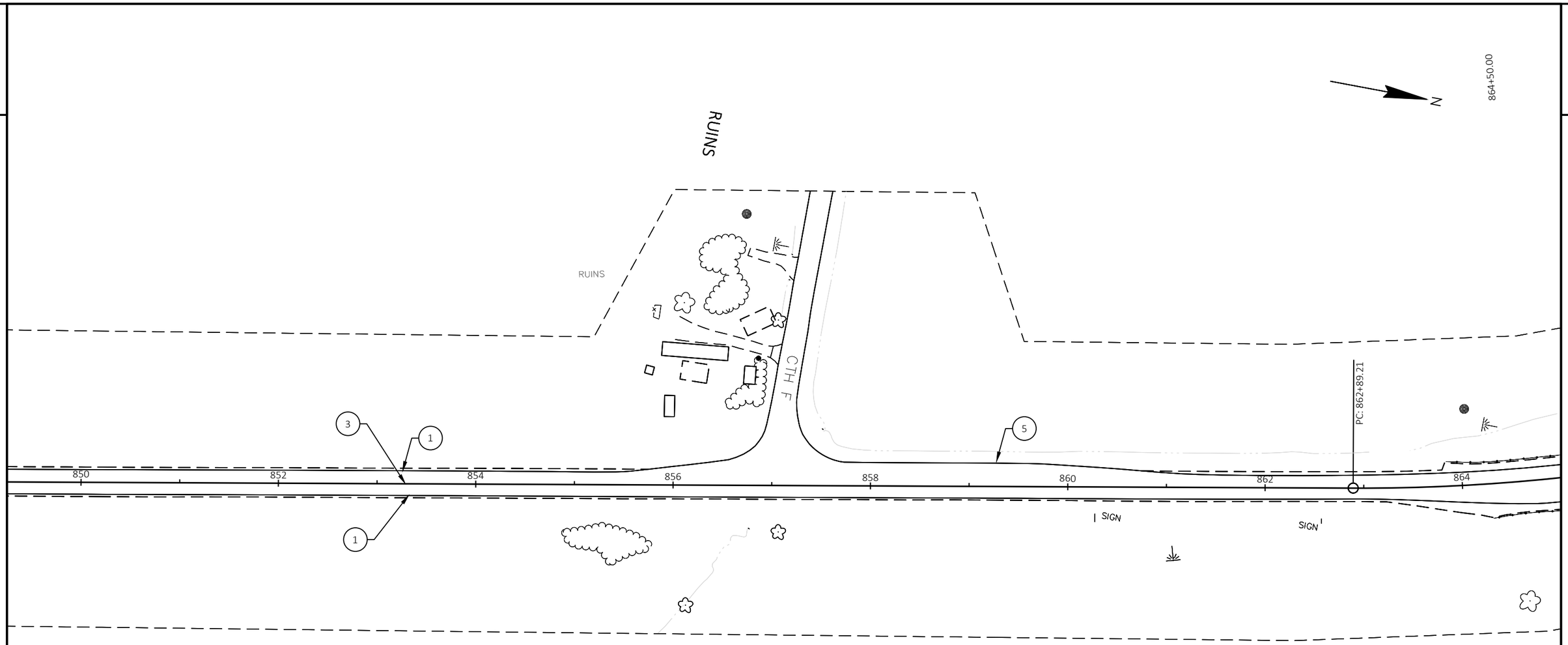


PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 71 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (27)

PLOT DATE : 9/12/2020 4:50 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)

849+75.00

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

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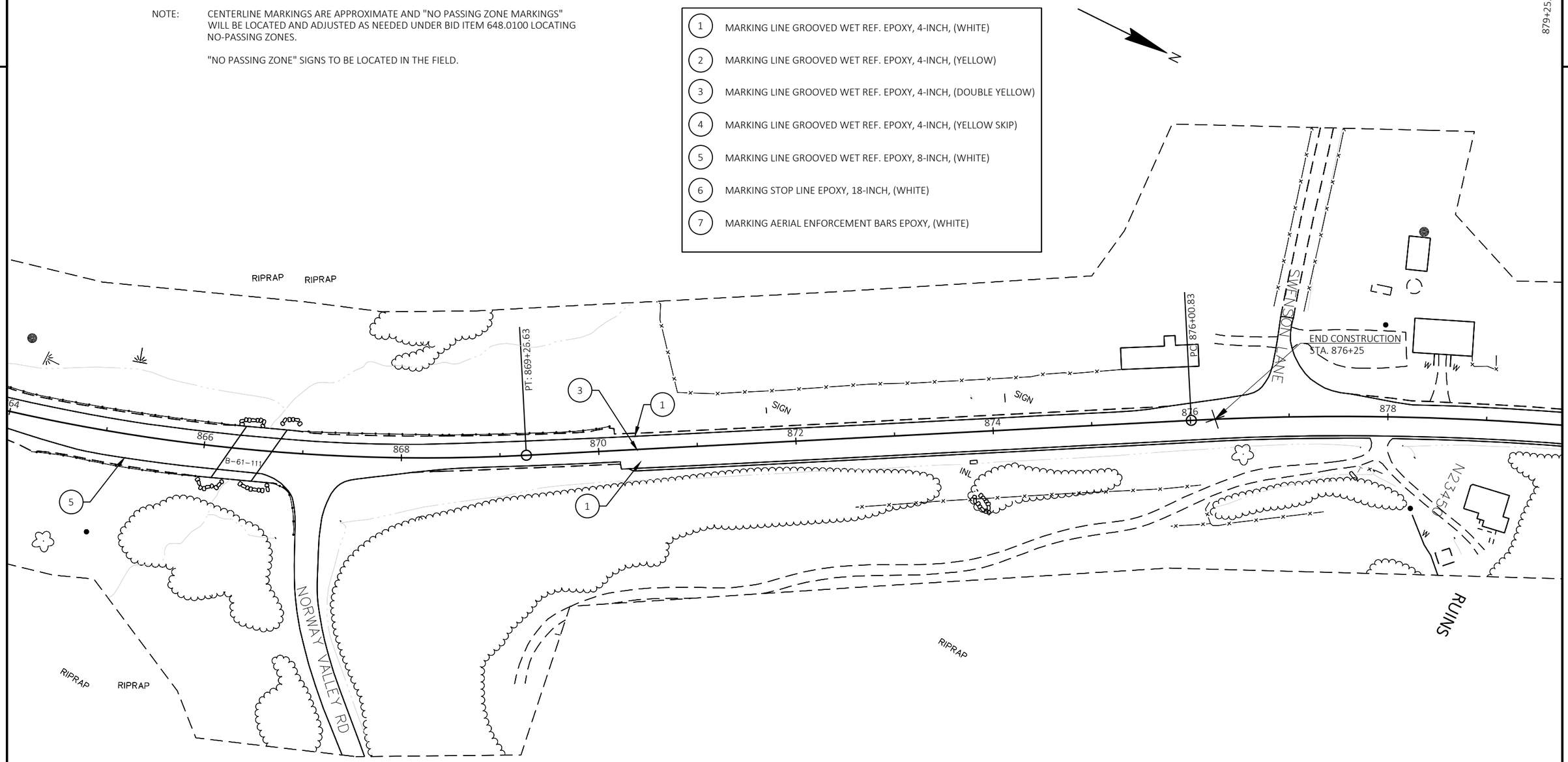
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 73	E

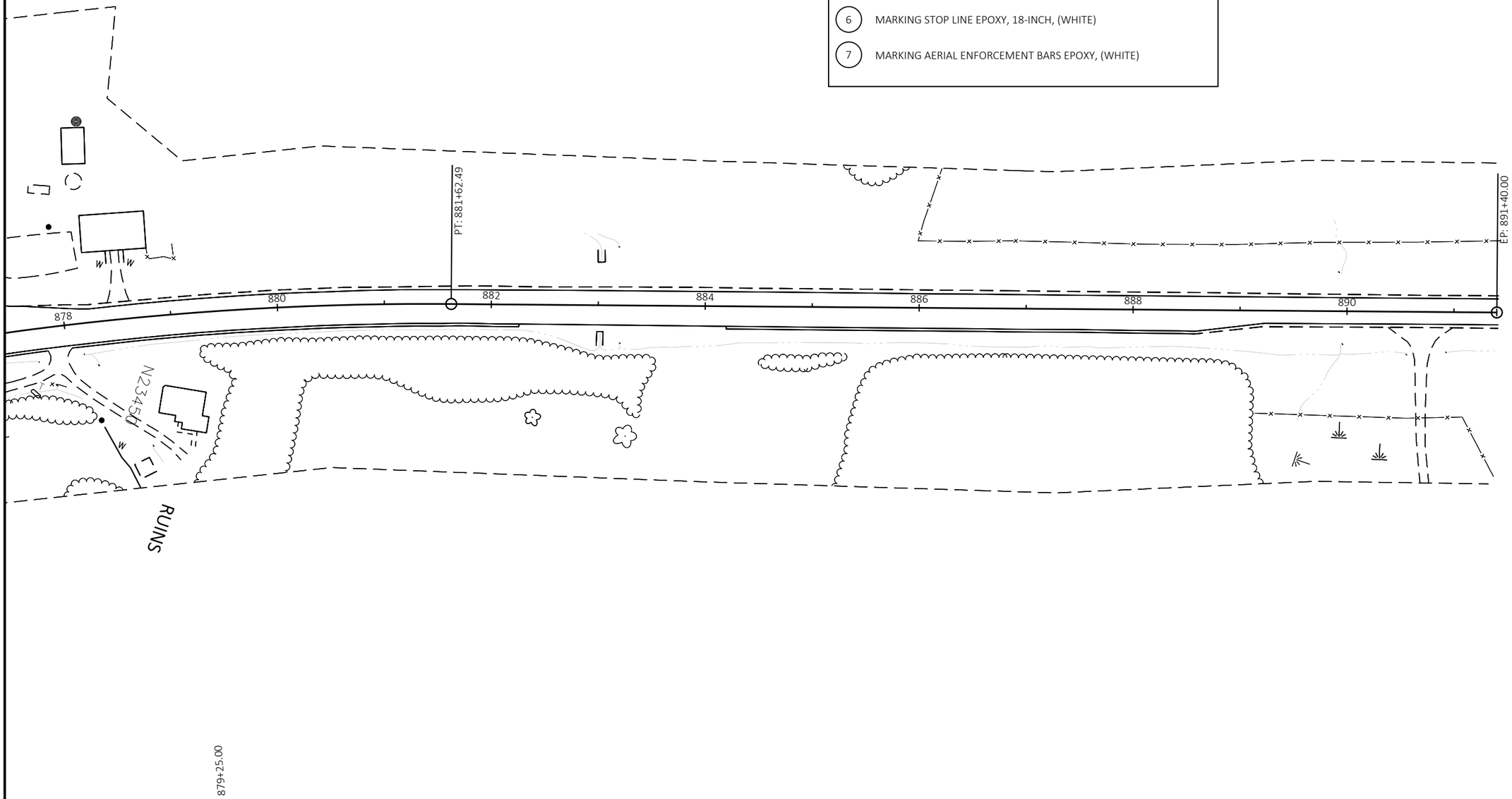
FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (29)

PLOT DATE : 9/12/2020 4:51 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE: CENTERLINE MARKINGS ARE APPROXIMATE AND "NO PASSING ZONE MARKINGS" WILL BE LOCATED AND ADJUSTED AS NEEDED UNDER BID ITEM 648.0100 LOCATING NO-PASSING ZONES.

"NO PASSING ZONE" SIGNS TO BE LOCATED IN THE FIELD.

1	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (WHITE)
2	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW)
3	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (DOUBLE YELLOW)
4	MARKING LINE GROOVED WET REF. EPOXY, 4-INCH, (YELLOW SKIP)
5	MARKING LINE GROOVED WET REF. EPOXY, 8-INCH, (WHITE)
6	MARKING STOP LINE EPOXY, 18-INCH, (WHITE)
7	MARKING AERIAL ENFORCEMENT BARS EPOXY, (WHITE)



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PAVEMENT MARKINGS	SHEET 74 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\PAVEMENT MARKINGS\024501_PM.DWG
LAYOUT NAME - Sheet - (30)
PLOT DATE : 9/12/2020 4:51 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:100 FT

DESCRIBE ALIGNMENT
WISCONSIN DOT REPORT
CREATED ON: 8/12/2020 6:47:03 AM

ALIGNMENT: STH_93
DESCRIPTION:
LENGTH: 43990.004

TANGENT N 331141.123 E 820815.283 STATION 451+50.000
DISTANCE 4801.300 BEARING N 00° 10' 13.1929" W

ARC

PC N 335942.402 E 820801.010 STATION 499+51.300
CC N 335936.940 E 818964.018
PI N 336377.430 E 820799.716 STATION 503+86.330
TAN 435.030
DB N 00° 10' 13.2019" W
DA N 26° 48' 59.4740" W
LCHORD DISTANCE 846.644 BEARING N 13° 29' 36.3380" W
EXTERNAL DISTANCE 50.808
MIDDLE ORDINATE 49.441
RADIUS 1837.000
DEG 03° 07' 08.3510"
DELTA 26° 38' 46.2721"
LENGTH 854.322
PCC N 336765.675 E 820603.459 STATION 508+05.622
TANGENCY VIOLATION

ARC

PCC N 336765.675 E 820603.459 STATION 508+05.622
CC N 334499.625 E 816120.654
PI N 337357.196 E 820304.446 STATION 514+68.423
TAN 662.801
DB N 26° 48' 59.4740" W
DA N 41° 51' 01.4141" W
LCHORD DISTANCE 1314.210 BEARING N 34° 20' 00.4441" W
EXTERNAL DISTANCE 43.541
MIDDLE ORDINATE 43.166
RADIUS 5023.000
DEG 01° 08' 26.4067"
DELTA 15° 02' 01.9401"
LENGTH 1317.988
PT N 337850.909 E 819862.233 STATION 521+23.610

TANGENT N 337850.909 E 819862.233 STATION 521+23.610
DISTANCE 1035.081 BEARING N 41° 51' 01.4141" W

ARC

PC N 338621.931 E 819171.640 STATION 531+58.691
CC N 340179.814 E 820910.957
PI N 338935.750 E 818890.556 STATION 535+79.988
TAN 421.296
DB N 41° 51' 01.4141" W
DA N 21° 23' 42.3523" W
LCHORD DISTANCE 829.204 BEARING N 31° 37' 21.8832" W
EXTERNAL DISTANCE 37.702
MIDDLE ORDINATE 37.103
RADIUS 2335.000
DEG 02° 27' 13.6106"
DELTA 20° 27' 19.0618"
LENGTH 833.624
PT N 339328.013 E 818736.868 STATION 539+92.315

TANGENT N 339328.013 E 818736.868 STATION 539+92.315
DISTANCE 706.551 BEARING N 21° 23' 42.3523" W

ARC

PC N 339985.873 E 818479.121 STATION 546+98.866
CC N 340531.610 E 819872.027
PI N 340677.365 E 818208.196 STATION 554+41.537
TAN 742.671
DB N 21° 23' 42.3523" W
DA N 31° 24' 28.7951" E
LCHORD DISTANCE 1330.421 BEARING N 05° 00' 23.2214" E
EXTERNAL DISTANCE 174.203
MIDDLE ORDINATE 156.033
RADIUS 1496.000
DEG 03° 49' 47.7545"
DELTA 52° 48' 11.1475"
LENGTH 1378.695
PT N 341311.218 E 818595.224 STATION 560+77.561

TANGENT N 341311.218 E 818595.224 STATION 560+77.561
DISTANCE 1013.242 BEARING N 31° 24' 28.7951" E

ARC

PC N 342175.998 E 819123.253 STATION 570+90.803
CC N 343296.425 E 817288.276
PI N 342454.250 E 819293.152 STATION 574+16.824
TAN 326.021
DB N 31° 24' 28.7951" E
DA N 14° 09' 46.7321" E
LCHORD DISTANCE 644.672 BEARING N 22° 47' 07.7636" E
EXTERNAL DISTANCE 24.578
MIDDLE ORDINATE 24.300
RADIUS 2150.000
DEG 02° 39' 53.7120"
DELTA 17° 14' 42.0631"
LENGTH 647.112
PT N 342770.361 E 819372.923 STATION 577+37.916

TANGENT N 342770.361 E 819372.923 STATION 577+37.916
DISTANCE 2358.595 BEARING N 14° 09' 46.7321" E

ARC

PC N 345057.263 E 819950.027 STATION 600+96.510
CC N 344432.103 E 822427.364
PI N 345827.968 E 820144.515 STATION 608+91.376
TAN 794.866
DB N 14° 09' 46.7321" E
DA N 48° 43' 30.0757" E
LCHORD DISTANCE 1517.969 BEARING N 31° 26' 38.4039" E
EXTERNAL DISTANCE 120.787
MIDDLE ORDINATE 115.335
RADIUS 2555.000
DEG 02° 14' 32.9866"
DELTA 34° 33' 43.3436"
LENGTH 1541.231
PT N 346352.319 E 820741.898 STATION 616+37.741

TANGENT N 346352.319 E 820741.898 STATION 616+37.741
DISTANCE 1225.976 BEARING N 48° 43' 30.0757" E

2

ARC

PC N 347161.063 E 821663.283 STATION 628+63.717
CC N 349295.472 E 819789.810
PI N 347442.894 E 821984.367 STATION 632+90.945
TAN 427.228
DB N 48° 43' 30.0757" E
DA N 31° 36' 54.1196" E
LCHORD DISTANCE 844.949 BEARING N 40° 10' 12.0976" E
EXTERNAL DISTANCE 31.955
MIDDLE ORDINATE 31.599
RADIUS 2840.000
DEG 02° 01' 02.8454"
DELTA 17° 06' 35.9561"
LENGTH 848.097
PT N 347806.717 E 822208.324 STATION 637+11.814

TANGENT N 347806.717 E 822208.324 STATION 637+11.814
DISTANCE 3652.146 BEARING N 31° 36' 54.1196" E

ARC

PC N 350916.846 E 824122.814 STATION 673+63.960
CC N 352641.495 E 821321.084
PI N 351764.758 E 824644.759 STATION 683+59.642
TAN 995.682
DB N 31° 36' 54.1196" E
DA N 02° 03' 38.4422" W
LCHORD DISTANCE 1905.991 BEARING N 14° 46' 37.8387" E
EXTERNAL DISTANCE 147.366
MIDDLE ORDINATE 141.048
RADIUS 3290.000
DEG 01° 44' 29.4471"
DELTA 33° 40' 32.5618"
LENGTH 1933.704
PT N 352759.796 E 824608.957 STATION 692+97.664

TANGENT N 352759.796 E 824608.957 STATION 692+97.664
DISTANCE 3635.199 BEARING N 02° 03' 38.4422" W

ARC

PC N 356392.645 E 824478.243 STATION 729+32.863
CC N 356328.956 E 822708.188
PI N 356761.637 E 824464.966 STATION 733+02.094
TAN 369.231
DB N 02° 03' 38.4422" W
DA N 25° 36' 41.7229" W
LCHORD DISTANCE 722.921 BEARING N 13° 50' 10.0825" W
EXTERNAL DISTANCE 38.076
MIDDLE ORDINATE 37.275
RADIUS 1771.200
DEG 03° 14' 05.4837"
DELTA 23° 33' 03.2807"
LENGTH 728.036
PT N 357094.589 E 824305.359 STATION 736+60.899

TANGENT N 357094.589 E 824305.359 STATION 736+60.899
DISTANCE 525.895 BEARING N 25° 36' 41.7229" W

ARC

PC N 357568.813 E 824078.031 STATION 741+86.794
CC N 358186.956 E 825367.527
PI N 357987.424 E 823877.362 STATION 746+51.017
TAN 464.224
DB N 25° 36' 41.7229" W
DA N 10° 21' 30.8769" E
LCHORD DISTANCE 883.080 BEARING N 07° 37' 35.4230" W
EXTERNAL DISTANCE 73.464
MIDDLE ORDINATE 69.874
RADIUS 1430.000
DEG 04° 00' 24.1124"
DELTA 35° 58' 12.5998"
LENGTH 897.751
PT N 358444.082 E 823960.833 STATION 750+84.545

TANGENT N 358444.082 E 823960.833 STATION 750+84.545
DISTANCE 275.810 BEARING N 10° 21' 30.8769" E

ARC

PC N 358715.397 E 824010.426 STATION 753+60.355
CC N 358968.027 E 822628.325
PI N 358983.004 E 824059.341 STATION 756+32.396
TAN 272.041
DB N 10° 21' 30.8769" E
DA N 11° 33' 28.1291" W
LCHORD DISTANCE 534.161 BEARING N 00° 35' 58.6261" W
EXTERNAL DISTANCE 26.094
MIDDLE ORDINATE 25.619
RADIUS 1405.000
DEG 04° 04' 40.7693"
DELTA 21° 54' 59.0060"
LENGTH 537.431
PT N 359249.528 E 824004.836 STATION 758+97.786

TANGENT N 359249.528 E 824004.836 STATION 758+97.786
DISTANCE 3088.272 BEARING N 11° 33' 28.1291" W

ARC

PC N 362275.180 E 823386.080 STATION 789+86.059
CC N 361697.151 E 820559.579
PI N 362949.320 E 823248.216 STATION 796+74.152
TAN 688.093
DB N 11° 33' 28.1291" W
DA N 38° 23' 14.8907" W
LCHORD DISTANCE 1338.638 BEARING N 24° 58' 21.5099" W
EXTERNAL DISTANCE 80.923
MIDDLE ORDINATE 78.715
RADIUS 2885.000
DEG 01° 59' 09.5601"
DELTA 26° 49' 46.7616"
LENGTH 1350.947
PT N 363488.668 E 822820.927 STATION 803+37.006

TANGENT N 363488.668 E 822820.927 STATION 803+37.006
DISTANCE 561.842 BEARING N 38° 23' 14.8907" W

ARC

PC N 363929.056 E 822472.036 STATION 808+98.848
CC N 364641.937 E 823371.872
PI N 364256.105 E 822212.937 STATION 813+16.093
TAN 417.245
DB N 38° 23' 14.8907" W
DA N 01° 33' 36.8827" E
LCHORD DISTANCE 784.294 BEARING N 18° 24' 49.0040" W
EXTERNAL DISTANCE 73.473
MIDDLE ORDINATE 69.054
RADIUS 1148.000
DEG 04° 59' 27.3178"
DELTA 39° 56' 51.7734"
LENGTH 800.408
PT N 364673.195 E 822224.298 STATION 816+99.255

TANGENT N 364673.195 E 822224.298 STATION 816+99.255
DISTANCE 974.773 BEARING N 01° 33' 36.8827" E

ARC

PC N 365647.607 E 822250.839 STATION 826+74.029
CC N 365738.821 E 818902.081
PI N 365996.981 E 822260.355 STATION 830+23.533
TAN 349.504
DB N 01° 33' 36.8827" E
DA N 10° 21' 06.9904" W
LCHORD DISTANCE 695.234 BEARING N 04° 23' 45.0539" W
EXTERNAL DISTANCE 18.182
MIDDLE ORDINATE 18.084
RADIUS 3350.000
DEG 01° 42' 37.1584"
DELTA 11° 54' 43.8730"
LENGTH 696.488
PT N 366340.796 E 822197.552 STATION 833+70.517

TANGENT N 366340.796 E 822197.552 STATION 833+70.517
DISTANCE 2918.689 BEARING N 10° 21' 06.9904" W

ARC

PC N 369211.976 E 821673.080 STATION 862+89.206
CC N 368867.179 E 819785.514
PI N 369528.414 E 821615.277 STATION 866+10.880
TAN 321.674
DB N 10° 21' 06.9904" W
DA N 29° 23' 07.5885" W
LCHORD DISTANCE 634.493 BEARING N 19° 52' 07.2894" W
EXTERNAL DISTANCE 26.776
MIDDLE ORDINATE 26.408
RADIUS 1918.800
DEG 02° 59' 09.6773"
DELTA 19° 02' 00.5981"
LENGTH 637.420
PT N 369808.701 E 821457.438 STATION 869+26.626

TANGENT N 369808.701 E 821457.438 STATION 869+26.626
DISTANCE 674.208 BEARING N 29° 23' 07.5885" W

ARC

PC N 370396.165 E 821126.616 STATION 876+00.835
CC N 371804.423 E 823627.357
PI N 370641.644 E 820988.377 STATION 878+82.561
TAN 281.727
DB N 29° 23' 07.5885" W
DA N 18° 10' 21.9013" W
LCHORD DISTANCE 560.759 BEARING N 23° 46' 44.7449" W
EXTERNAL DISTANCE 13.794
MIDDLE ORDINATE 13.728
RADIUS 2870.000
DEG 01° 59' 46.9271"
DELTA 11° 12' 45.6872"
LENGTH 561.654
PT N 370909.318 E 820900.511 STATION 881+62.489

TANGENT N 370909.318 E 820900.511 STATION 881+62.489
DISTANCE 977.515 BEARING N 18° 10' 21.9013" W
END N 371838.076 E 820595.641 STATION 891+40.004

					7130-00-73	7130-00-83
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0002	202.0105	Roadside Clearing	STA	1.000	1.000	
0004	203.0100	Removing Small Pipe Culverts	EACH	7.000	7.000	
0006	204.0110	Removing Asphaltic Surface	SY	597.000	597.000	
0008	204.0115	Removing Asphaltic Surface Butt Joints	SY	6,238.000	6,238.000	
0010	204.0120	Removing Asphaltic Surface Milling	SY	140,589.000	140,589.000	
0012	204.0150	Removing Curb & Gutter	LF	60.000	60.000	
0014	209.1500	Backfill Granular Grade 1	TON	1,094.000	1,094.000	
0016	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 7130-00-73	LS	1.000	1.000	
0018	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	860.000		860.000
0020	213.0100	Finishing Roadway (project) 01. 7130-00-73	EACH	1.000	1.000	
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,489.000	3,489.000	
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	590.000	590.000	
0026	305.0500	Shaping Shoulders	STA	860.000	860.000	
0028	455.0605	Tack Coat	GAL	8,164.000	7,200.000	964.000
0030	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000	
0032	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000	
0034	460.2005	Incentive Density PWL HMA Pavement	DOL	20,000.000	20,000.000	
0036	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	20,000.000	20,000.000	
0038	460.2010	Incentive Air Voids HMA Pavement	DOL	25,000.000	25,000.000	
0040	460.6645	HMA Pavement 5 MT 58-34 V	TON	30,450.000	26,887.000	3,563.000
0042	465.0105	Asphaltic Surface	TON	91.000	91.000	
0044	465.0110	Asphaltic Surface Patching	TON	50.000	50.000	
0046	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	710.000	710.000	
0048	465.0315	Asphaltic Flumes	SY	2.000	2.000	
0050	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	72,768.000		72,768.000
0052	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	35,731.000	35,731.000	
0054	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	4.000	4.000	
0056	520.1030	Apron Endwalls for Culvert Pipe 30-Inch	EACH	5.000	5.000	
0058	520.1036	Apron Endwalls for Culvert Pipe 36-Inch	EACH	2.000	2.000	
0060	520.3624	Culvert Pipe Class III-B Non-metal 24-Inch	LF	180.000	180.000	
0062	520.3630	Culvert Pipe Class III-B Non-metal 30-Inch	LF	80.000	80.000	
0064	520.3636	Culvert Pipe Class III-B Non-metal 36-Inch	LF	93.000	93.000	
0066	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000	
0068	520.8700	Cleaning Culvert Pipes	EACH	25.000	25.000	
0070	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	2.000	2.000	
0072	521.3124	Culvert Pipe Corrugated Steel 24-Inch	LF	19.000	19.000	
0074	522.0118	Culvert Pipe Reinforced Concrete Class III 18-Inch	LF	257.000	257.000	
0076	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	56.000	56.000	
0078	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	138.000	138.000	

				7130-00-73	7130-00-83
Line	**Item**	**Item Description**	**Unit**	**Total Qty**	**Qty**
0080	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	4.000	4.000
0082	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	1.000	1.000
0084	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	5.000	5.000
0086	524.0124	Culvert Pipe Salvaged 24-Inch	LF	401.000	401.000
0088	524.0130	Culvert Pipe Salvaged 30-Inch	LF	156.000	156.000
0090	524.0136	Culvert Pipe Salvaged 36-Inch	LF	72.000	72.000
0092	524.0624	Apron Endwalls for Culvert Pipe Salvaged 24-Inch	EACH	10.000	10.000
0094	524.0630	Apron Endwalls for Culvert Pipe Salvaged 30-Inch	EACH	3.000	3.000
0096	524.0636	Apron Endwalls for Culvert Pipe Salvaged 36-Inch	EACH	2.000	2.000
0098	601.0576	Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type J	LF	60.000	60.000
0100	606.0200	Riprap Medium	CY	100.000	100.000
0102	611.0630	Inlet Covers Type HM-GJ	EACH	4.000	4.000
0104	611.0642	Inlet Covers Type MS	EACH	4.000	4.000
0106	611.3230	Inlets 2x3-FT	EACH	4.000	4.000
0108	611.3901	Inlets Median 1 Grate	EACH	2.000	2.000
0110	611.3902	Inlets Median 2 Grate	EACH	1.000	1.000
0112	614.0010	Barrier System Grading Shaping Finishing	EACH	18.000	18.000
0114	614.0920	Salvaged Rail	LF	3,521.000	3,521.000
0116	614.0925	Salvaged Guardrail End Treatments	EACH	18.000	18.000
0118	614.2300	MGS Guardrail 3	LF	1,948.000	1,948.000
0120	614.2350	MGS Guardrail Short Radius	LF	24.000	24.000
0122	614.2500	MGS Thrie Beam Transition	LF	608.000	608.000
0124	614.2610	MGS Guardrail Terminal EAT	EACH	17.000	17.000
0126	614.2630	MGS Guardrail Short Radius Terminal	EACH	1.000	1.000
0128	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7130-00-73	EACH	1.000	1.000
0130	619.1000	Mobilization	EACH	1.000	0.800	0.200
0132	624.0100	Water	MGAL	25.000	25.000
0134	625.0500	Salvaged Topsoil	SY	346.000	346.000
0136	627.0200	Mulching	SY	346.000	346.000
0138	628.1504	Silt Fence	LF	4,785.000	4,785.000
0140	628.1520	Silt Fence Maintenance	LF	4,785.000	4,785.000
0142	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0144	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0146	628.2004	Erosion Mat Class I Type B	SY	500.000	500.000
0148	628.7015	Inlet Protection Type C	EACH	5.000	5.000
0150	628.7504	Temporary Ditch Checks	LF	1,500.000	1,500.000
0152	628.7555	Culvert Pipe Checks	EACH	55.000	55.000

					7130-00-73	7130-00-83
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0154	629.0210	Fertilizer Type B	CWT	0.700	0.700	
0156	630.0120	Seeding Mixture No. 20	LB	28.300	28.300	
0158	630.0200	Seeding Temporary	LB	28.300	28.300	
0160	633.5200	Markers Culvert End	EACH	94.000	94.000	
0162	638.2102	Moving Signs Type II	EACH	10.000	10.000	
0164	638.4000	Moving Small Sign Supports	EACH	10.000	10.000	
0166	642.5001	Field Office Type B	EACH	1.000	1.000	
0168	643.0300	Traffic Control Drums	DAY	11,664.000	11,664.000	
0170	643.0900	Traffic Control Signs	DAY	13,041.000	13,041.000	
0172	643.5000	Traffic Control	EACH	1.000	1.000	
0174	645.0120	Geotextile Type HR	SY	188.000	188.000	
0176	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	143,491.000	143,491.000	
0178	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	744.000	744.000	
0180	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	61,713.000	61,713.000	
0182	646.5420	Marking Aerial Enforcement Bar Epoxy	EACH	10.000	10.000	
0184	646.6120	Marking Stop Line Epoxy 18-Inch	LF	80.000	80.000	
0186	648.0100	Locating No-Passing Zones	MI	8.200	8.200	
0188	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	114,516.000	114,516.000	
0190	650.4000	Construction Staking Storm Sewer	EACH	9.000	9.000	
0192	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	60.000	60.000	
0194	650.6000	Construction Staking Pipe Culverts	EACH	20.000	20.000	
0196	650.8000	Construction Staking Resurfacing Reference	LF	42,518.000	42,518.000	
0198	650.9910	Construction Staking Supplemental Control (project) 01. 7130-00-73	LS	1.000	1.000	
0200	690.0150	Sawing Asphalt	LF	1,118.000	1,118.000	
0202	690.0250	Sawing Concrete	LF	25.000	25.000	
0204	740.0440	Incentive IRI Ride	DOL	16,000.000	16,000.000	
0206	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,000.000	1,000.000	
0208	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	630.000	630.000	
0210	SPV.0060	Special 01. Cleaning Box Culvert, 3.5' x 5', STA. 501+40	EACH	1.000	1.000	
0212	SPV.0060	Special 02. Cleaning Box Culvert, 3.5' x 5', STA. 518+46	EACH	1.000	1.000	
0214	SPV.0060	Special 03. Cleaning Box Culvert, 7' x 12', STA. 658+68	EACH	1.000	1.000	
0216	SPV.0060	Special 04. Cleaning Box Culvert, 8' x 12', STA. 685+30	EACH	1.000	1.000	
0218	SPV.0090	Special 01. Concrete Curb and Gutter Cure and Seal Treatment	LF	60.000	60.000	
0220	SPV.0090	Special 02. HMA Lane Repair	LF	5,925.000	5,925.000	
0222	SPV.0105	Special 01. Material Transfer Vehicle	LS	1.000	1.000	

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202.0105
ROADSIDE
CLEARING

CATEGORY	STATION	LOCATION	STA	REMARKS
0010	19+24	RT	1	SWENSON ROAD
		TOTAL 0010	1	

203.0100
REMOVING SMALL
PIPE CULVERTS

CATEGORY	STATION	EACH	REMARKS
0010	494+73	1	18-INCH CMCP
0010	543+45	1	30-INCH CMCP
0010	826+40	1	30-INCH CMCP
0010	826+44	1	30-INCH CMCP
0010	830+41	1	24-INCH CMCP
0010	857+10	1	36-INCH CMCP
0010	873+80	1	24-INCH RCCP
	TOTAL 0010	7	

204.0110
REMOVING
ASPHALTIC SURFACE

CATEGORY	STATION	TO	STATION	SY	REMARKS
0010	475+92	-	476+04	40	Pipe @ 475+98
0010	494+68	-	494+78	33	Pipe @ 494+73
0010	511+08	-	511+16	23	Pipe @ 511+12
0010	543+40	-	543+50	33	Pipe @ 543+45
0010	552+72	-	552+80	23	Pipe @ 552+76
0010	750+15	-	750+25	32	Pipe @ 750+20
0010	754+51	-	754+59	27	Pipe @ 754+55
0010	757+85	-	757+93	27	Pipe @757+89
0010	777+47	-	777+55	26	Pipe @ 777+51
0010	787+07		787+14	23	Pipe @ 787+10
0010	821+97		822+03	23	Pipe @ 822+00
0010	826+34	-	826+46	38	Pipe @ 826+40
0010	826+38	-	826+50	38	Pipe @ 826+44
0010	830+36	-	830+46	33	Pipe @ 830+41
0010	857+06	-	857+15	68	Pipe @ 857+10
0010	870+47	-	870+53	20	Pipe @ 870+50
0010	873+76	-	873+84	26	Pipe @ 873+80
0010	876+71	-	876+79	43	Pipe @ 876+75
0010	879+47	-	879+53	21	Pipe @ 879+50
			TOTAL 0010	597	

204.0115
REMOVING ASPHALTIC
SURFACE BUTT JOINTS

CATEGORY	STATION	LOCATION	SY	REMARKS
0010	452+50		45	BEGINNING OF PROJECT (INTERSECTION SOUTH)
0010		LT	46	STH 54/35 (INTERSECTION WEST)
0010		RT	43	STH 54/93 (INTERSECTION EAST)
0010	466+60	LT	60	TODD ROAD
0010	568+04	RT	257	KOPP ROAD (SOUTH)
0010	580+04	RT	329	KOPP ROAD (NORTH)
0010	594+25	RT	56	TROWBRIDGE LANE
0010	599+23	LT	460	BORTLE ROAD
0010	654+90	RT	350	ROGNEBY LANE
0010	668+25	RT	384	WALSKY LANE
0010	682+07	RT	459	FOX COULEE LANE
0010	743+01	RT	372	GERMAN COULEE LANE
0010	792+40	RT	539	BENRUD ROAD
0010	805+08	RT	317	HOLCOMB COULEE ROAD
0010	856+98	LT	398	CTH F
0010	867+12	RT	456	NORWAY VALLEY ROAD
0010	876+90	LT	423	SWENSON LANE
0010	880+00			END OF PROJECT
0010	457+00	RT	57	PE
0010	458+15	LT	12	PE
0010	462+35	LT	18	PE
0010	462+35	RT	27	PE
0010	463+60	LT	10	PE
0010	463+90	LT	24	PE
0010	503+65	RT	119	PE
0010	561+40	LT	98	PE
0010	601+85	LT	55	PE
0010	610+65	RT	89	PE
0010	620+10	RT	76	PE
0010	632+25	RT	92	PE
0010	704+65	RT	158	PE
0010	716+40	RT	120	PE
0010	764+35	LT	37	PE
0010	765+35	LT	30	PE
0010	807+15	RT	95	PE
0010	808+00	RT	44	PE
0010	816+60	RT	33	PE
0010	841+10	RT	50	PE
		TOTAL 0010	6,238	

204.0120
REMOVING ASPHALTIC
SURFACE MILLING

CATEGORY	STATION	TO	STATION	LOCATION	SY	REMARKS
0010	452+50	-	741+15		96217	
0010				LT	5300	STH 54/35 (INTERSECTION WEST)
0010				RT	6264	STH 54/93 (INTERSECTION EAST)
0010	798+41	-	842+39		14660	
0010	843+39	-	866+10		7570	
0010	866+41	-	880+00		4530	
0010			466+60	LT	60	TODD ROAD
0010			568+04	RT	257	KOPP ROAD (SOUTH)
0010			580+04	RT	329	KOPP ROAD (NORTH)
0010			599+23	LT	460	BORTLE ROAD
0010			654+90	RT	350	ROGNEBY LANE
0010			668+25	RT	384	WALSKY LANE
0010			682+07	RT	459	FOX COULEE LANE
0010			743+01	RT	372	GERMAN COULEE LANE
0010			792+40	RT	539	BENRUD ROAD
0010			805+08	RT	317	HOLCOMB COULEE ROAD
0010			856+98	LT	398	CTH F
0010			867+12	RT	456	NORWAY VALLEY ROAD
0010			876+90	LT	423	SWENSON LANE
0010			880+00			END OF PROJECT
0010	457+00			RT	57	PE
0010	458+15			LT	12	PE
0010	462+35			LT	18	PE
0010	462+35			RT	27	PE
0010	463+60			LT	10	PE
0010	463+90			LT	24	PE
0010	503+65			RT	119	PE
0010	561+40			LT	98	PE
0010	601+85			LT	55	PE
0010	610+65			RT	89	PE
0010	620+10			RT	76	PE
0010	632+25			RT	92	PE
0010	704+65			RT	158	PE
0010	716+40			RT	120	PE
0010	764+35			LT	37	PE
0010	765+35			LT	30	PE
0010	807+15			RT	95	PE
0010	808+00			RT	44	PE
0010	816+60			RT	33	PE
0010	841+10			RT	50	PE
				TOTAL 0010	140,589	

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CATEGORY	STATION	TO	STATION	LOCATION	204.0150 REMOVING CURB & GUTTER LF
0010	821+93	-	821+99	RT	6
0010	822+02	-	822+08	RT	6
0010	870+43	-	870+49	RT	6
0010	870+52	-	870+58	RT	6
0010	873+73	-	873+79	RT	6
0010	873+82	-	873+88	RT	6
0010	876+68	-	876+74	RT	6
0010	876+77	-	876+83	RT	6
0010	879+43	-	879+49	RT	6
0010	879+52	-	879+58	RT	6
				TOTAL 0010	60

CATEGORY	STATION	TO	STATION	209.1500 BACKFILL GRANULAR GRADE 1 TON	REMARKS
0010	475+92	-	476+04	107	Pipe @ 475+98
0010	494+68	-	494+78	89	Pipe @ 494+73
0010	511+08	-	511+16	25	Pipe @ 511+12
0010	543+40	-	543+50	69	Pipe @ 543+45
0010	552+72	-	552+80	13	Pipe @ 552+76
0010	750+15	-	750+25	65	Pipe @ 750+20
0010	754+51	-	754+59	42	Pipe @ 754+55
0010	757+85	-	757+93	43	Pipe @757+89
0010	777+47	-	777+55	41	Pipe @ 777+51
0010	787+07	-	787+14	25	Pipe @ 787+10
0010	821+97	-	822+03	31	Pipe @ 822+00
0010	826+34	-	826+46	112	Pipe @826+40
0010	826+38	-	826+50	112	Pipe @ 826+44
0010	830+36	-	830+46	89	Pipe @ 830+41
0010	857+06	-	857+15	73	Pipe @ 857+10
0010	870+47	-	870+53	17	Pipe@870+50
0010	873+76	-	873+84	41	Pipe @ 873+80
0010	876+71	-	876+79	75	Pipe @ 876+75
0010	879+47	-	879+53	25	Pipe @ 879+50
			TOTAL 0010	1,094	

CATEGORY	STATION	TO	STATION	211.0100.01 PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) (01. TBD) LS	REMARKS
0010	453+00	-	880+00	1	ENTIRE PROJECT LENGTH
			TOTAL 0010	1	

CATEGORY	STATION	TO	STATION	LOCATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA
0010	452+50	-	741+15	LT	289
0010	452+50	-	741+46	RT	289
0010	741+46	-	798+41	LT	57
0010	741+46	-	799+01	RT	58
0010	799+01	-	842+39	LT	44
0010	799+91	-	843+39	RT	44
0010	843+39	-	866+83	LT	24
0010	843+39	-	866+51	RT	24
0010	866+41	-	876+25	LT	10
0010	866+10	-	866+51	RT	1
0010	866+83	-	876+25	LT	10
0010	866+51	-	876+25	RT	10
			TOTAL 0010 [PROJECT 7130-00-83]		860

CATEGORY	STATION	TO	STATION	213.0100.01 FINISHING ROADWAY (PROJECT) (01. TBD) EACH	REMARKS
0010	452+50	-	880+00	1	ENTIRE PROJECT LENGTH
			TOTAL 0010	1	

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	REMARKS
0010		-				
0010	465+20	-	465+85	LT	3	Shoulder
0010	465+26	-	503+21	RT	176	Shoulder
0010	467+15		556+22	LT	412	Shoulder
0010	504+08	-	568+00	RT	296	Shoulder
0010	561+79	-	580+69	LT	88	Shoulder
0010	569+57	-	578+97	RT	44	Shoulder
0010	581+95	-	597+91	LT	74	Shoulder
0010	580+41	-	581+75	RT	6	Shoulder
0010	584+77	-	593+26	RT	39	Shoulder
0010	600+30	-	602+03	LT	8	Shoulder
0010	594+65	-	610+32	RT	73	Shoulder
0010	602+03	-	738+95	LT	634	Shoulder
0010	610+93	-	619+74	RT	41	Shoulder
0010	620+38	-	631+76	RT	53	Shoulder
0010	632+59	-	653+38	RT	96	Shoulder
0010	656+08	-	667+60	RT	53	Shoulder
0010	669+42	-	680+59	RT	52	Shoulder
0010	683+41	-	704+22	RT	96	Shoulder
0010	705+25	-	716+10	RT	50	Shoulder
0010	716+77	-	736+46	RT	91	Shoulder
0010	743+63	-	782+83	RT	181	Shoulder
0010	765+75	-	795+68	LT	139	Shoulder
0010	786+40	-	791+58	RT	24	Shoulder
0010	793+58	-	796+90	RT	15	Shoulder
0010	801+86	-	840+38	LT	178	Shoulder
0010	800+68	-	804+34	RT	17	Shoulder
0010	805+54	-	806+75	RT	6	Shoulder
0010	808+39	-	814+98	RT	31	Shoulder
0010	816+93	-	820+31	RT	16	Shoulder
0010	825+85	-	840+72	RT	69	Shoulder
0010	845+89	-	855+76	LT	46	Shoulder
0010	846+19	-	863+23	RT	79	Shoulder
0010	860+74	-	863+80	LT	14	Shoulder
0010	868+11	-	870+22	RT	10	Shoulder
0010	870+17	-	875+79	LT	26	Shoulder
0010	877+64	-	880+00	LT	11	Shoulder
0010			453+30			
0010			457+62	RT		PE
0010			461+43	LT		PE
0010			464+89	RT		PE
0010			470+14	LT	3	FE
				SUBTOTAL 0010	3248	

CATEGORY	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	REMARKS
0010	473+45	RT	7	FE
0010	479+77	RT	4	FE
0010	493+25	RT	6	FE
0010	493+28	LT	8	PE
0010	503+81	LT	3	FE
0010	517+49	RT	17	PE
0010	517+84	RT	0	FE
0010	524+87	LT	3	FE
0010	525+37	RT	14	PE
0010	543+00	RT		FE
0010	552+38	LT	9	FE
0010	556+50	LT	5	FE
0010	560+80	RT	4	FE
0010	563+82	LT	8	PE
0010	565+70	LT	5	PE
0010	586+44	RT	6	PE
0010	601+87	RT	6	PE
0010	607+56	LT	5	FE
0010	610+63	RT		FE
0010		LT	2	FE
0010	619+65	RT	3	FE
0010	626+75	RT	5	FE
0010	629+47	LT	3	FE
0010	663+52	LT	5	PE
0010	668+25	LT	5	PE
0010	675+02	RT	5	FE
0010	677+06	LT	7	?
0010	678+18	RT	8	PE
0010	678+76	LT	10	?
0010	700+08	LT	9	PE
0010	702+47	LT	6	PE
0010	702+92	RT	4	FE
0010	716+47	LT	3	FE
0010	719+13	RT	2	PE
0010	736+05	LT	4	FE
0010	736+16	RT	9	PE
0010	763+40	RT	3	FE
0010	768+42	LT	3	FE
0010	771+70	RT	3	FE
0010	786+75	RT	3	FE
0010	808+01	LT	4	FE
0010	815+17	RT	2	FE
0010	821+58	LT	6	FE
0010	825+29	RT		FE
0010	827+30	RT	3	FE
0010	845+95	RT	6	FE
0010	877+91	RT	2	FE
0010	877+91	RT	2	PE
0010	878+50	LT	2	PE
		SUBTOTAL 0010	241	
		TOTAL 0010	3489	

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CATEGORY	STATION	TO	STATION	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	REMARKS
0010	475+88	-	476+09	39	Pipe @ 475+98
0010	494+64	-	494+82	34	Pipe @ 494+73
0010	511+06	-	511+18	23	Pipe @ 511+12
0010	543+36	-	543+54	33	Pipe @ 543+45
0010	552+70	-	552+82	22	Pipe @ 552+76
0010	750+12	-	750+28	32	Pipe @ 750+20
0010	754+48	-	754+62	26	Pipe @ 754+55
0010	757+82	-	757+96	26	Pipe @ 757+89
0010	777+44	-	777+58	26	Pipe @ 777+51
0010	787+04		787+16	23	Pipe @ 787+10
0010	821+94		822+06	23	Pipe @ 822+00
0010	826+30	-	826+50	38	Pipe @ 826+40
0010	826+34	-	826+54	38	Pipe @ 826+44
0010	830+32	-	830+50	34	Pipe @ 830+41
0010	857+03	-	857+18	63	Pipe @ 857+10
0010	870+45	-	870+55	20	Pipe @ 870+50
0010	873+73	-	873+87	26	Pipe @ 873+80
0010	876+68	-	876+82	43	Pipe @ 876+75
0010	879+44	-	879+56	21	Pipe @ 879+50
			TOTAL 0010	590	

CATEGORY	STATION	TO	STATION	LOCATION	305.0500 SHAPING SHOULDERS STA
0010	452+50	-	741+15	LT	289
0010	452+50	-	741+46	RT	289
0010	741+46	-	798+41	LT	57
0010	741+46	-	799+01	RT	58
0010	799+01	-	842+39	LT	44
0010	799+91	-	843+39	RT	44
0010	843+39	-	866+83	LT	24
0010	843+39	-	866+51	RT	24
0010	866+41	-	876+25	LT	10
0010	866+10	-	866+51	RT	1
0010	866+83	-	876+25	LT	10
0010	866+51	-	876+25	RT	10
				TOTAL 0010	860

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	REMARKS
0010				LT	15	STH 54/35 MILLED SURFACE
0010				RT	18	STH 54/93 MILLED SURFACE
0010	452+50	-	741+15	LT	1203	MILLED SURFACE
0010	452+50	-	741+46	RT	1204	MILLED SURFACE
0010	741+46	-	798+41	LT	238	MILLED SURFACE
0010	741+46	-	799+01	RT	240	MILLED SURFACE
0010	799+01	-	842+39	LT	181	MILLED SURFACE
0010	799+91	-	843+39	RT	182	MILLED SURFACE
0010	843+39	-	866+83	LT	98	MILLED SURFACE
0010	843+39	-	866+51	RT	97	MILLED SURFACE
0010	866+41	-	876+25	LT	41	MILLED SURFACE
0010	866+10	-	866+51	RT	2	MILLED SURFACE
0010	866+83	-	876+25	LT	40	MILLED SURFACE
0010	866+51	-	876+25	RT	41	MILLED SURFACE
0010				LT	15	STH 54/35 1ST LIFT
0010				RT	18	STH 54/93 1ST LIFT
0010	452+50	-	741+15	LT	1203	1ST LIFT
0010	452+50	-	741+46	RT	1204	1ST LIFT
0010	741+46	-	798+41	LT	238	1ST LIFT
0010	741+46	-	799+01	RT	240	1ST LIFT
0010	799+01	-	842+39	LT	181	1ST LIFT
0010	799+91	-	843+39	RT	182	1ST LIFT
0010	843+39	-	866+83	LT	98	1ST LIFT
0010	843+39	-	866+51	RT	97	1ST LIFT
0010	866+41	-	876+25	LT	41	1ST LIFT
0010	866+10	-	866+51	RT	2	1ST LIFT
0010	866+83	-	876+25	LT	40	1ST LIFT
0010	866+51	-	876+25	RT	41	1ST LIFT
				7130-00-73 SUBTOTAL	7,200	

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	REMARKS
0010	452+50	-	741+15	LT	161	MILLED SURFACE
0010	452+50	-	741+46	RT	161	MILLED SURFACE
0010	741+46	-	798+41	LT	32	MILLED SURFACE
0010	741+46	-	799+01	RT	32	MILLED SURFACE
0010	799+01	-	842+39	LT	25	MILLED SURFACE
0010	799+91	-	843+39	RT	25	MILLED SURFACE
0010	843+39	-	866+83	LT	14	MILLED SURFACE
0010	843+39	-	866+51	RT	13	MILLED SURFACE
0010	866+41	-	876+25	LT	6	MILLED SURFACE
0010	866+10	-	866+51	RT	1	MILLED SURFACE
0010	866+83	-	876+25	LT	6	MILLED SURFACE
0010	866+51	-	876+25	RT	6	MILLED SURFACE
0010	452+50	-	741+15	LT	161	1ST LIFT
0010	452+50	-	741+46	RT	161	1ST LIFT
0010	741+46	-	798+41	LT	32	1ST LIFT
0010	741+46	-	799+01	RT	32	1ST LIFT
0010	799+01	-	842+39	LT	25	1ST LIFT
0010	799+91	-	843+39	RT	25	1ST LIFT
0010	843+39	-	866+83	LT	14	1ST LIFT
0010	843+39	-	866+51	RT	13	1ST LIFT
0010	866+41	-	876+25	LT	6	1ST LIFT
0010	866+10	-	866+51	RT	1	1ST LIFT
0010	866+83	-	876+25	LT	6	1ST LIFT
0010	866+51	-	876+25	RT	6	1ST LIFT
				7130-00-83 SUBTOTAL	964	
				PROJECT TOTAL	8,164	

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CATEGORY	STATION	TO	STATION	LOCATION	460.2005 INCENTIVE DENSITY PWL HMA PAVEMENT DOL
0010	452+50	-	880+00	PROJECT	20,000
				TOTAL 0010	20,000

CATEGORY	STATION	TO	STATION	LOCATION	460.2010 INCENTIVE AIR VOIDS HMA PAVEMENT DOL
0010	452+50	-	880+00	PROJECT	25,000
				TOTAL 0010	25,000

							QUALITY MANAGEMENT PROGRAM TO BE USED	
LOCATION	STA - STA	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
12 FOOT DRIVING LANE	452+50 - 880+00	LOWER LAYER	MILLED EXISTING SURFACE	5 MT 58-34 V	12,410	1 3/4"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
12 FOOT DRIVING LANE	452+50 - 880+00	UPPER LAYER	5 MT 58-34 V	5 MT 58-34 V	14,477	1 1/2"	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005

CATEGORY	STATION	TO	STATION	LOCATION	460.6645 HMA PAVEMENT 5 MT 58-34 V TON	REMARKS
0010				LT	52	STH 54/35 1ST LAYER
0010				RT	61	STH 54/93 1ST LAYER
0010	452+50	-	741+15	LT	4,150	1ST LAYER
0010	452+50	-	741+46	RT	4,154	1ST LAYER
0010	741+46	-	798+41	LT	819	1ST LAYER
0010	741+46	-	799+01	RT	828	1ST LAYER
0010	799+01	-	842+39	LT	624	1ST LAYER
0010	799+91	-	843+39	RT	626	1ST LAYER
0010	843+39	-	866+83	LT	338	1ST LAYER
0010	843+39	-	866+51	RT	333	1ST LAYER
0010	866+41	-	876+25	LT	142	1ST LAYER
0010	866+10	-	866+51	RT	6	1ST LAYER
0010	866+83	-	876+25	LT	136	1ST LAYER
0010	866+51	-	876+25	RT	141	1ST LAYER
0010				LT	61	STH 54/35 2ND LAYER
0010				RT	71	STH 54/93 2ND LAYER
0010	452+50	-	741+15	LT	4,841	2ND LAYER
0010	452+50	-	741+46	RT	4,847	2ND LAYER
0010	741+46	-	798+41	LT	956	2ND LAYER
0010	741+46	-	799+01	RT	966	2ND LAYER
0010	799+01	-	842+39	LT	728	2ND LAYER
0010	799+91	-	843+39	RT	730	2ND LAYER
0010	843+39	-	866+83	LT	394	2ND LAYER
0010	843+39	-	866+51	RT	388	2ND LAYER
0010	866+41	-	876+25	LT	166	2ND LAYER
0010	866+10	-	866+51	RT	7	2ND LAYER
0010	866+83	-	876+25	LT	158	2ND LAYER
0010	866+51	-	876+25	RT	164	2ND LAYER
				7130-00-73 SUBTOTAL	26,887	

CATEGORY	STATION	TO	STATION	LOCATION	460.6645 HMA PAVEMENT 5 MT 58-34 V TON	REMARKS
0010	452+50	-	741+15	LT	554	1ST LAYER SHOULDER WIDENING
0010	452+50	-	741+46	RT	554	1ST LAYER SHOULDER WIDENING
0010	741+46	-	798+41	LT	110	1ST LAYER SHOULDER WIDENING
0010	741+46	-	799+01	RT	111	1ST LAYER SHOULDER WIDENING
0010	799+01	-	842+39	LT	84	1ST LAYER SHOULDER WIDENING
0010	799+91	-	843+39	RT	84	1ST LAYER SHOULDER WIDENING
0010	843+39	-	866+83	LT	45	1ST LAYER SHOULDER WIDENING
0010	843+39	-	866+51	RT	45	1ST LAYER SHOULDER WIDENING
0010	866+41	-	876+25	LT	19	1ST LAYER SHOULDER WIDENING
0010	866+10	-	866+51	RT	1	1ST LAYER SHOULDER WIDENING
0010	866+83	-	876+25	LT	19	1ST LAYER SHOULDER WIDENING
0010	866+51	-	876+25	RT	19	1ST LAYER SHOULDER WIDENING
0010	452+50	-	741+15	LT	646	2ND LAYER SHOULDER WIDENING
0010	452+50	-	741+46	RT	647	2ND LAYER SHOULDER WIDENING
0010	741+46	-	798+41	LT	128	2ND LAYER SHOULDER WIDENING
0010	741+46	-	799+01	RT	129	2ND LAYER SHOULDER WIDENING
0010	799+01	-	842+39	LT	97	2ND LAYER SHOULDER WIDENING
0010	799+91	-	843+39	RT	98	2ND LAYER SHOULDER WIDENING
0010	843+39	-	866+83	LT	53	2ND LAYER SHOULDER WIDENING
0010	843+39	-	866+51	RT	52	2ND LAYER SHOULDER WIDENING
0010	866+41	-	876+25	LT	23	2ND LAYER SHOULDER WIDENING
0010	866+10	-	866+51	RT	1	2ND LAYER SHOULDER WIDENING
0010	866+83	-	876+25	LT	22	2ND LAYER SHOULDER WIDENING
0010	866+51	-	876+25	RT	22	2ND LAYER SHOULDER WIDENING
				7130-00-83 SUBTOTAL	3,563	
				PROJECT TOTAL	30,450	

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465.0105 ASPHALTIC SURFACE

CATEGORY	STATION	TO	STATION	TON	REMARKS
0010	475+92	-	476+04	11	Pipe @ 475+98
0010	494+68	-	494+78	9	Pipe @ 494+73
0010	511+08	-	511+16	7	Pipe @ 511+12
0010	543+40	-	543+50	9	Pipe @ 543+45
0010	552+72	-	552+80	7	Pipe @ 552+76
0010	750+15	-	750+25	9	Pipe @ 750+20
0010	754+51	-	754+59	7	Pipe @ 754+55
0010	757+85	-	757+93	7	Pipe @757+89
0010	777+47	-	777+55	7	Pipe @ 777+51
0010	787+07	-	787+14	7	Pipe @ 787+10
0010	821+97		822+03	6	Pipe @ 822+00
0010	826+34	-	826+46	10	Pipe @ 826+40
0010	826+38	-	826+50	10	Pipe @ 826+44
0010	830+36	-	830+46	9	Pipe @ 830+41
0010	857+06	-	857+15	18	Pipe @ 857+10
0010	870+47	-	870+53	6	Pipe @ 870+50
0010	873+76	-	873+84	7	Pipe @ 873+80
0010	876+71	-	876+79	12	Pipe @ 876+75
0010	879+47	-	879+53	6	Pipe @ 879+50
			TOTAL 0010	91	

465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

CATEGORY	STATION	LOCATION	TON	REMARKS
0010	466+60	LT	7	TODD ROAD
0010	568+04	RT	30	KOPP ROAD (SOUTH)
0010	580+04	RT	38	KOPP ROAD (NORTH)
0010	599+23	LT	53	BORTLE ROAD
0010	654+90	RT	41	ROGNEBY LANE
0010	668+25	RT	45	WALSKY LANE
0010	682+07	RT	53	FOX COULEE LANE
0010	743+01	RT	43	GERMAN COULEE LANE
0010	792+40	RT	62	BENRUD ROAD
0010	805+08	RT	37	HOLCOMB COULEE ROAD
0010	856+98	LT	46	CTH F
0010	867+12	RT	53	NORWAY VALLEY ROAD
0010	876+90	LT	49	SWENSON LANE
0010	457+00	RT	7	PE
0010	458+15	LT	2	PE
0010	462+35	LT	2	PE
0010	462+35	RT	4	PE
0010	463+60	LT	2	PE
0010	463+90	LT	3	PE
0010	503+65	RT	14	PE
0010	561+40	LT	12	PE
0010	601+85	LT	7	PE
0010	610+65	RT	11	PE
0010	620+10	RT	9	PE
0010	632+25	RT	11	PE
0010	704+65	RT	19	PE
0010	716+40	RT	14	PE
0010	764+35	LT	5	PE
0010	765+35	LT	4	PE
0010	807+15	RT	11	PE
0010	808+00	RT	6	PE
0010	816+60	RT	4	PE
0010	841+10	RT	6	PE
		TOTAL 0010	710	

465.0110 ASPHALTIC SURFACE PATCHING

CATEGORY	STATION	TO	STATION	LOCATION	TON	REMARKS
0010	452+50	-	880+00	PROJECT	50	UNDISTRIBUTED
				TOTAL 0010	50	

465.0315 ASPHALTIC FLUMES

CATEGORY	STATION	LOCATION	SY
0010	870+20	RT	2
		TOTAL 0010	2

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465.0425
ASPHALTIC SHOULDER RUMBLE STRIPS
2-LANE RURAL

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	468+06	-	492+75	LT	2,469	
0010	493+78	-	555+97	LT	6,219	
0010	556+95	-	560+77	LT	382	
0010	562+04	-	563+18	LT	114	
0010	564+45	-	597+07	LT	3,262	BORTLE ROAD
0010	602+27	-	663+01	LT	6,074	
0010	664+18	-	667+68	LT	350	
0010	668+85	-	699+43	LT	3,058	
0010	703+09	-	740+89	LT	3780	B-61-113
0010	741+71	-	763+92	LT	2221	
0010	765+84	-	797+79	LT	3195	B-61-109
0010	799+47	-	841+97	LT	4250	B-61-110
0010	843+54	-	855+07	LT	1153	CTH F
0010	858+23	-	866+11	LT	788	B-61-111
0010	868+34	-	875+29	LT	695	SWENSON LANE
0010	878+75		880+00	LT	125	END OF PROJECT
0010	458+07	-	503+21	RT	4,514	
0010	504+33	-	516+76	RT	1,243	
0010	518+32	-	524+53	RT	621	
0010	526+23	-	567+12	RT	4,089	KOPP ROAD SOUTH
0010	570+38	-	578+81	RT	843	KOPP ROAD NORTH
0010	581+31	-	585+86	RT	455	
0010	587+13	-	592+68	RT	555	
0010	596+10	-	601+22	RT	512	
0010	602+48	-	610+05	RT	757	
0010	611+19	-	619+30	RT	811	
0010	620+62	-	631+50	RT	1,088	
0010	632+84	-	653+38	RT	2,054	ROGNEBY LANE
0010	656+58	-	666+77	RT	1,019	WALSKY LANE
0010	670+09	-	677+65	RT	756	
0010	678+69	-	680+35	RT	166	FOX COULEE ROAD
0010	683+90	-	703+97	RT	2,007	
0010	705+50	-	715+85	RT	1,035	
0010	717+02	-	718+61	RT	159	
0010	719+62	-	735+55	RT	1,593	
0010	744+78	-	790+35	RT	4,557	BENRUD ROAD
0010	794+42	-	797+93	RT	351	B-61-109
0010	799+62	-	801+50	RT	188	HOLCOMB COULEE ROAD
0010	808+41	-	816+20	RT	779	
0010	817+08	-	840+56	RT	2,348	B-61-110
0010	843+80	-	863+25	RT	1,945	NORWAY VALLEY ROAD
0010	868+34	-	870+22	RT	188	C & G
TOTAL 0010 [PROJECT 7130-00-83]					72,768	

465.0475
ASPHALT CENTERLINE RUMBLE STRIPS
2-LANE RURAL

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	468+59	-	566+27		9768	TODD ROAD
0010	570+27	-	578+02		775	KOPP ROAD
0010	582+06	-	592+14		1008	TROWBRIDGE LANE
0010	596+22	-	597+07		85	BORTLE ROAD
0010	601+29	-	666+26		6497	WALSKY LANE
0010	670+26	-	680+06		980	FOX COULEE LANE
0010	684+08	-	740+89		5681	BRIDGE B- 61-113 / GERMAN COULEE LANE
0010	745+03	-	790+35		4532	BENRUD ROAD
0010	794+44	-	797+87		343	BRIDGE B-61-109
0010	799+54	-	803+08		354	HOLCOMBE COULEE ROAD
0010	808+25	-	842+10		3385	BRIDGE B-61-110
0010	843+67	-	854+95		1128	CTH F
0010	859+01	-	865+12		611	BRIDGE B-61-111
0010	869+12	-	874+96		584	SWENSON LANE
TOTAL 0010 [PROJECT 7130-00-73]					35,731	

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CATEGORY	STATION	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	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	* JOINT TIES IF CONCRETE USED EACH	REMARKS
0010	494+73	2			112			12	FLOWS EAST TO WEST; REPLACES 18-INCH CMCP
0010	543+45		2			80		12	FLOWS EAST TO WEST; REPLACES 30-INCH CMCP
0010	830+41	2			68			12	FLOWS EAST TO WEST; REPLACES 24-INCH RCCP
0010	857+10			2			93	12	FLOWS WEST TO EAST; REPLACES 36-INCH CMCP
	TOTAL 0010	4	2	2	180	80	93	48	

* ITEMS AND QUANTITIES FOR INFORMATION ONLY.

CATEGORY	STATION	LOCATION	520.8000 CONCRETE COLLARS FOR PIPE EACH
0010	750+20	LT	1
		TOTAL 0010	1

CATEGORY	STATION	520.8700 CLEANING CULVERT PIPES EACH
0010	473+83	1
0010	481+56	1
0010	527+12	1
0010	538+06	1
0010	563+33	1
0010	569+39	1
0010	572+46	1
0010	587+48	1
0010	597+74	1
0010	619+22	1
0010	627+96	1
0010	639+82	1
0010	705+48	1
0010	714+50	1
0010	722+78	1
0010	763+67	1
0010	768+65	1
0010	771+28	1
0010	781+95	1
0010	787+10	1
0010	806+46	1
0010	811+52	1
0010	814+53	1
0010	818+98	1
0010	836+39	1
	TOTAL 0010	25

CATEGORY	STATION	LOCATION	521.1024 APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH EACH	REMARKS
0010	19+24	SWENSON LANE, RT	2	FE
		TOTAL 0010	2	

CATEGORY	STATION	LOCATION	521.3124 CULVERT PIPE CORRUGATED STEEL 24-INCH LF	THICKNESS INCHES
0010	19+24	SWENSON LANE, RT, FE	19	0.064
		TOTAL 0010	19	

CATEGORY	STATION	LOCATION	522.0118 CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.0130 CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	* JOINT TIES EACH	REMARKS
0010	750+20	AEW LT						1		
0010	822+00	AEW LT	58			1			6	TO INLET; NEW CULVERT LOCATION
0010	826+40				69			2	12	FLOWS EAST TO WEST; TWIN 30-INCH RCCP
0010	826+44				69			2	12	FLOWS EAST TO WEST; TWIN 30-INCH RCCP
0010	870+50	AEW LT	56			1				TO INLET; NEW CULVERT LOCATION
0010	873+80	AEW LT		56			1		12	TO INLET; REPLACES 24-INCH RCCP
0010	876+75	AEW LT	74			1			6	TO INLET; NEW CULVERT LOCATION
0010	879+50	AEW LT	69			1			6	TO INLET; NEW CULVERT LOCATION
		TOTAL 0010	257	56	138	4	1	5	54	

* ITEMS AND QUANTITIES FOR INFORMATION ONLY.

CATEGORY	STATION	524.0124 CULVERT PIPE SALVAGED 24-INCH LF	524.0130 CULVERT PIPE SALVAGED 30-INCH LF	524.0136 CULVERT PIPE SALVAGED 36-INCH LF	524.0624 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 24-INCH EACH	524.0630 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 30-INCH EACH	524.0636 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 36-INCH EACH	* JOINT TIES EACH	REMARKS
0010	475+98			72			2	12	FLOWS EAST TO WEST; 36-INCH RCCP
0010	511+12	77			2			12	FLOWS EAST TO WEST; 24-INCH RCCP
0010	552+76		58			2		12	FLOWS EAST TO WEST; 30-INCH RCCP
0010	750+20		98			1		12	FLOWS EAST TO WEST; 30-INCH RCCP
0010	754+55	89			2			12	FLOWS EAST TO WEST; 24-INCH RCCP
0010	757+89	86			2			12	FLOWS EAST TO WEST; 24-INCH RCCP
0010	777+51	80			2			12	FLOWS EAST TO WEST; 24-INCH RCCP
0010	787+10	69			2			12	FLOWS EAST TO WEST; 24-INCH RCCP
	TOTAL 0010	401	156	72	10	3	2	96	

* ITEMS AND QUANTITIES FOR INFORMATION ONLY.

CATEGORY	STATION	TO	STATION	LOCATION	601.0576 CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE J LF
0010	821+93		821+99	RT	6
0010	822+02		822+08	RT	6
0010	870+43		870+49	RT	6
0010	870+52		870+58	RT	6
0010	873+73	-	873+79	RT	6
0010	873+82	-	873+88	RT	6
0010	876+68	-	876+74	RT	6
0010	876+77	-	876+83	RT	6
0010	879+43	-	879+49	RT	6
0010	879+52	-	879+58	RT	6
				TOTAL 0010	60

CATEGORY	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY
0010	473+83	LT	8
0010	511+12	LT	4
0010	518+46	LT	7
0010	569+39	LT	4
0010	596+54	LT	16
0010	596+54	RT	16
0010	619+22	LT	1
0010	627+96	LT	4
0010	722+78	LT	7
0010	722+78	RT	11
0010	750+20	LT	6
0010	754+55	LT	4
0010	757+89	LT	4
0010	757+89	RT	4
0010	873+80	LT	4
		TOTAL 0010	100

CATEGORY	STATION	LOCATION	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0642 INLET COVERS TYPE MS EACH
0010	873+80	RT	1	2
0010	876+75	RT	1	1
0010	879+50	RT	1	1
0010	822+00	RT	1	
		TOTAL 0010	4	4

CATEGORY	STATION	LOCATION	611.3230 INLETS 2X3-FT EACH	GRATE ELEV.	DISCHARGE ELEV.	DISCHARGE TO	DEPTH FEET
0010	873+80	21.9' RT	1	822.25	816.43	DAYLIGHT	4.05
0010	876+75	21.8' RT	1	826.95	821.89	DAYLIGHT	4.52
0010	879+50	20.9' RT	1	831.18	827.30	DAYLIGHT	3.63
0010	822+00	21.7' RT	1	802.21	796.92	DAYLIGHT	3.41
		TOTAL 0010	4				

CATEGORY	STATION	LOCATION	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	GRATE ELEV.	DISCHARGE ELEV.	DISCHARGE TO	DEPTH FEET	INLET ELEV.	INLET FROM	REMARKS
0010	873+80	32.3' RT		1	821.99	818.20	INLET	3.25	818.20	INLET	2 GRATE INLET TO 2 X 3 INLET
0010	876+75	28.4' RT	1		825.60	822.65	INLET	3.10	822.50	INLET	1 GRATE INLET TO 2 X 3 INLET
0010	879+50	24.7' RT	1		830.66	827.55	INLET	3.08	827.58	INLET	1 GRATE INLET TO 2 X 3 INLET
		TOTAL 0010	2	1							

CATEGORY	STATION	TO	STATION	LOCATION	614.0920 SALVAGED RAIL LF	614.0925 SALVAGED GUARDRAIL END TREATMENTS EACH	REMARKS
0010	556+89	-	560+87	LT	398		
0010	556+89			LT		1	
0010			560+87	LT		1	
0010	739+62	-	741+15	LT	153		B-61-113 SW
0010	739+62			LT		1	B-61-113 SW
0010	738+64	-	741+15	RT	251		B-61-113 SE
0010	738+64			RT		1	B-61-113 SE
0010	741+46	-	742+82	LT	136		B-61-113 NW
0010			742+82	LT		1	B-61-113 NW
0010	741+46	-	742+50	RT	104		B-61-113 NE
0010			742+50	RT		1	B-61-113 NE
0010	795+75	-	798+41	LT	266		B-61-109 SW
0010	795+75			LT		1	B-61-109 SW
0010	796+92	-	798+41	RT	149		B-61-109 SE
0010	796+92			RT		1	B-61-109 SE
0010	799+01	-	801+63	LT	262		B-61-109 NW
0010			801+63	RT		1	B-61-109 NW
0010	799+01	-	800+66	RT	165		B-61-109 NE
0010			800+66	RT		1	B-61-109 NE
0010	840+45	-	842+39	LT	194		B-61-110 SW
0010	840+45			LT		1	B-61-110 SW
0010	841+33	-	842+39	RT	106		B-61-110 SE
0010	841+33			RT		1	B-61-110 SE
0010	843+39	-	845+93	LT	254		B-61-110 NW
0010			845+93	LT		1	B-61-110 NW
0010	843+39	-	845+68	RT	229		B-61-110 NE
0010			845+68	RT		1	B-61-110 NE
0010	863+82	-	866+83	LT	301		B-61-111 SW
0010	863+82			LT		1	B-61-111 SW
0010	864+28	-	866+10	RT	182		B-61-111 SE
0010	864+28			RT		1	B-61-111 SE
0010	866+83	-	870+14	LT	331		B-61-111 NW
0010			870+14	LT		1	B-61-111 NW
0010	866+51	-	866+91	RT	40		B-61-111 NE
			866+91	RT		1	B-61-111 NE
				TOTAL 0010	3,521	18	

CATEGORY	STATION	TO	STATION	LOCATION	614.2300 MGS GUARDRAIL 3 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
0010	556+89	-	560+89	LT	294					
0010	556+89			LT				1		
0010			560+89	LT				1		
0010	739+54	-	741+19	LT	75		38			B-61-113 SW
0010	739+54			LT				1		B-61-113 SW
0010	738+56	-	741+09	RT	163		38			B-61-113 SE
0010	738+56			RT				1		B-61-113 SE
0010	741+50	-	742+91	LT	50		38			B-61-113 NW
0010			742+91	LT				1		B-61-113 NW
0010	741+40	-	742+56	RT	25		38			B-61-113 NE
0010			742+56	RT				1		B-61-113 NE
0010	795+69	-	798+22	LT	163		38			B-61-109 SW
0010	795+69			LT				1		B-61-109 SW
0010	796+82	-	798+35	RT	63		38			B-61-109 SE
0010	796+82			RT				1		B-61-109 SE
0010	799+04	-	801+69	LT	175		38			B-61-109 NW
0010			801+69	LT				1		B-61-109 NW
0010	799+23	-	800+76	RT	63		38			B-61-109 NE
0010			800+76	RT				1		B-61-109 NE
0010	840+37	-	842+15	LT	88		38			B-61-110 SW
0010	840+37			LT				1		B-61-110 SW
0010	841+24	-	842+40	RT	25		38			B-61-110 SE
0010	841+24			RT				1		B-61-110 SE
0010	843+37	-	846+03	LT	175		38			B-61-110 NW
0010			846+03	LT				1		B-61-110 NW
0010	843+62	-	845+78	RT	125		38			B-61-110 NE
0010			845+78	RT				1		B-61-110 NE
0010	863+76	-	866+29	LT	163		38			B-61-111 SW
0010	863+76			LT				1		B-61-111 SW
0010	864+28	-	865+81	RT	63		38			B-61-111 SE
0010	864+28			RT				1		B-61-111 SE
0010	866+94	-	870+22	LT	238		38			B-61-111 NW
0010			870+22	LT				1		B-61-111 NW
0010	866+70	-	866+97	RT		24	38			B-61-111 NE
0010			866+97	RT					1	B-61-111 NE
				TOTAL 0010	1,948	24	608	17	1	

CATEGORY	STATION	LOCATION		614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING EACH	* FILL CY	* COMMON CY	* SALVAVAGED TOPSOIL SY	* FERTILIZER TYPE B CWT	* SEEDING MIX NO. 20 LB	** EROSION MAT CLASS I, TYPE B SY
0010	556+89	LT		1						
0010	560+89	LT		1						
0010	739+54	LT	B-61-113	1	379	153	1650	1.04	44.55	1650
0010	738+56	RT	B-61-113	1	95	249	1304	0.82	35.22	1304
0010	742+91	LT	B-61-113	1	722	217	698	0.44	18.84	698
0010	742+56	RT	B-61-113	1	56	289	227	0.14	6.12	227
0010	795+69	LT	B-61-109	1	216	996	536	0.34	14.48	536
0010	796+82	RT	B-61-109	1	601	1886	667	0.42	18.00	667
0010	801+69	LT	B-61-109	1	1292	3515	833	0.53	22.50	833
0010	800+76	RT	B-61-109	1	2902	6802	833	0.53	22.50	833
0010	840+37	LT	B-61-110	1	18	116	155	0.10	4.18	155
0010	841+24	RT	B-61-110	1	39	112	97	0.06	2.61	97
0010	846+03	LT	B-61-110	1	14	157	111	0.07	3.00	111
0010	845+78	RT	B-61-110	1	14	157	278	0.18	7.50	278
0010	863+76	LT	B-61-111	1	-	115	198	0.12	5.34	198
0010	864+28	RT	B-61-111	1	414	65	415	0.26	11.21	415
0010	870+22	LT	B-61-111	1	50	402	767	0.48	20.70	767
0010	866+97	RT	B-61-111	1	266	402	233	0.15	6.30	233
		TOTAL 0010		18	7076	15632	9002	5.7	243.0	9002

* INFORMATION ONLY
** EROSION MAT IS ALSO INCLUDED IN EROSION MAT TABLE

CATEGORY	STATION	TO	STATION	LOCATION	618.0100.01 MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) (01. TBD) EACH
0010	452+50	-	880+00	PROJECT	1
				TOTAL 0010	1

CATEGORY	STATION	TO	STATION	619.1000 MOBILIZATION EACH	REMARKS
0010	452+50	-	880+00	0.80	PROJECT 7130-00-73
0010	452+50	-	880+00	0.20	PROJECT 7130-00-83
			TOTAL 0010	1.0	

CATEGORY	STATION	TO	STATION	LOCATION	624.0100 WATER MGAL
0010	452+50	-	880+00	PROJECT	25
				TOTAL 0010	25

CATEGORY	LOCATION	625.0500 SALVAGED TOPSOIL SY
0010	UNDISTRIBUTED	346
	TOTAL 0010	346

CATEGORY	LOCATION	627.0200 MULCHING SY
0010	UNDISTRIBUTED	346
	TOTAL 0010	346

CATEGORY	STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	REMARKS
0010	475+98			LT	55	55	PIPE
0010	475+98			RT	78	78	PIPE
0010	494+73			LT	56	56	PIPE
0010	494+73			RT	85	85	PIPE
0010	511+12			LT	50	50	PIPE
0010	511+12			RT	53	53	PIPE
0010	543+45			LT	67	67	PIPE
0010	543+45			RT	69	69	PIPE
0010	552+76			LT	49	49	PIPE
0010	552+76			RT	64	64	PIPE
0010	739+54	-	741+19	LT	306	306	B-61-113 SW
0010	738+56	-	741+09	RT	290	290	B-61-113 SE
0010	741+50	-	742+91	LT	129	129	B-61-113 NW
0010	741+40	-	742+56	RT	111	111	B-61-113 NE
0010	750+20			LT	66	66	PIPE
0010	750+20			RT	50	50	PIPE
0010	754+55			LT	55	55	PIPE
0010	754+55			RT	47	47	PIPE
0010	757+89			LT	53	53	PIPE
0010	757+89			RT	55	55	PIPE
0010	777+51			LT	78	78	PIPE
0010	777+51			RT	72	72	PIPE
0010	795+69	-	798+22	LT	418	418	B-61-109 SW
0010	796+82	-	798+35	RT	268	268	B-61-109 SE
0010	799+04	-	801+69	LT	258	258	B-61-109 NW
0010	799+23	-	800+76	RT	28	28	B-61-109 NE
0010	822+00			LT	57	57	PIPE/INLET
0010	826+40			LT	60	60	PIPE
0010	826+44			RT	61	61	PIPE
0010	830+41			LT	61	61	PIPE
0010	830+41			RT	59	59	PIPE
0010	840+37	-	842+15	LT	182	182	B-61-110 SW
0010	841+24	-	842+40	RT	121	121	B-61-110 SE
0010	843+37	-	846+03	LT	283	283	B-61-110 NW
0010	843+62	-	845+78	RT	204	204	B-61-110 NE
0010	857+10			LT	78	78	PIPE
0010	857+10			RT	74	74	PIPE
0010	863+76	-	866+29	LT	163	163	B-61-111 SW
0010	864+28	-	865+81	RT	63	63	B-61-111 SE
0010	866+94	-	870+22	LT	238	238	B-61-111 NW
0010	866+70	-	866+97	RT	38	38	B-61-111 NE
0010	870+50			LT	66	66	PIPE/INLET
0010	873+80			LT	67	67	PIPE/INLET
0010	876+75			LT			PIPE/INLET
0010	879+50			LT			PIPE/INLET
				TOTAL 0010	4,785	4,785	

CATEGORY	STATION	TO	STATION	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	452+50	-	880+00	PROJECT	4	2
				TOTAL 0010	4	2

CATEGORY	STATION	TO	STATION	LOCATION	628.2004 EROSION MAT CLASS I TYPE B SY	REMARKS
0010	452+50	-	880+00	UNDISTRIBUTED	500	PIPE LOCATIONS, IF NEEDED
				TOTAL 0010	500	

CATEGORY	STATION	LOCATION	628.7015 INLET PROTECTION TYPE C EACH
0010	870+50	RT	1
0010	873+80	RT	1
0010	876+75	RT	1
0010	879+50	RT	1
0010	822+00	RT	1
		TOTAL 0010	5

CATEGORY	LOCATION	628.7504 TEMPORARY DITCH CHECKS LF
0010	UNDISTRIBUTED	1,500
	TOTAL 0010	1,500

CATEGORY	STATION	628.7555 CULVERT PIPE CHECKS EACH	REMARKS
0010	475+98	4	36-INCH PIPE
0010	494+73	3	24-INCH PIPE
0010	511+12	3	24-INCH PIPE
0010	543+45	4	30-INCH PIPE
0010	552+76	4	30-INCH PIPE
0010	750+20	4	30-INCH PIPE
0010	754+55	3	24-INCH PIPE
0010	757+89	3	24-INCH PIPE
0010	777+51	3	24-INCH PIPE
0010	822+00	2	18-INCH PIPE
0010	826+40	4	30-INCH PIPE
0010	826+44	4	30-INCH PIPE
0010	830+41	3	24-INCH PIPE
0010	857+10	4	36-INCH PIPE
0010	873+80	3	24-INCH PIPE
0010	876+75	2	18-INCH PIPE
0010	879+50	2	18-INCH PIPE
	TOTAL 0010	55	

CATEGORY	STATION	LOCATION	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	REMARKS
0010	475+98	LT	0.01	0.36	0.36	PIPE
0010	475+98	RT	0.03	1.26	1.26	PIPE
0010	494+73	LT	0.02	0.90	0.90	PIPE
0010	494+73	RT	0.02	0.75	0.75	PIPE
0010	511+12	LT	0.01	0.42	0.42	PIPE
0010	511+12	RT	0.02	1.05	1.05	PIPE
0010	543+45	LT	0.02	1.04	1.04	PIPE
0010	543+45	RT	0.02	1.04	1.04	PIPE
0010	750+20	LT	0.03	1.46	1.46	PIPE
0010	750+20	RT	0.02	0.76	0.76	PIPE
0010	754+55	LT	0.03	1.19	1.19	PIPE
0010	754+55	RT	0.01	0.60	0.60	PIPE
0010	757+89	LT	0.03	1.20	1.20	PIPE
0010	757+89	RT	0.01	0.62	0.62	PIPE
0010	777+51	LT	0.02	1.07	1.07	PIPE
0010	777+51	RT	0.01	0.64	0.64	PIPE
0010	787+10	LT	0.01	0.45	0.45	PIPE
0010	787+10	RT	0.01	0.54	0.54	PIPE
0010	822+00	LT	0.00	0.20	0.20	PIPE
0010	822+00	RT	0.02	0.68	0.68	Inlet
0010	826+40	LT	0.03	1.21	1.21	PIPE
0010	826+40	RT	0.03	1.21	1.21	PIPE
0010	826+44	LT	0.03	1.21	1.21	PIPE
0010	826+44	RT	0.03	1.21	1.21	PIPE
0010	830+41	LT	0.02	0.90	0.90	PIPE
0010	830+41	RT	0.02	0.75	0.75	PIPE
0010	857+10	LT	0.03	1.35	1.35	PIPE
0010	857+10	RT	0.02	0.86	0.86	PIPE
0010	870+50	LT	0.01	0.42	0.42	PIPE
0010	870+50	RT	0.00	0.17	0.17	INLET
0010	873+80	LT	0.02	0.71	0.71	PIPE
0010	873+80	RT	0.01	0.24	0.24	INLET
0010	876+75	LT	0.02	0.70	0.70	PIPE
0010	876+75	RT	0.01	0.22	0.22	INLET
0010	879+50	LT	0.00	0.19	0.19	INLET
0010	879+50	RT	0.02	0.75	0.75	PIPE
		TOTAL 0010	0.7	28.3	28.3	

CATEGORY	STATION	LOCATION	633.5200 MARKERS CULVERT END EACH
0010	473+83	LT, RT	2
0010	475+98	LT, RT	2
0010	481+56	LT, RT	2
0010	494+73	LT, RT	2
0010	501+36	LT, RT	2
0010	511+12	LT, RT	2
0010	518+46	LT, RT	2
0010	527+12	LT, RT	2
0010	538+06	LT, RT	2
0010	543+45	LT, RT	2
0010	552+76	LT, RT	2
0010	563+33	LT, RT	2
0010	569+39	LT, RT	2
0010	572+46	LT, RT	2
0010	587+48	LT, RT	2
0010	596+54	LT, RT	2
0010	597+74	LT, RT	2
0010	619+22	LT, RT	2
0010	627+96	LT, RT	2
0010	639+82	LT, RT	2
0010	658+68	LT, RT	2
0010	685+30	LT, RT	2
0010	705+48	LT, RT	2
0010	714+50	LT, RT	2
0010	722+78	LT, RT	2
0010	750+20	LT, RT	2
0010	754+55	LT, RT	2
0010	757+89	LT, RT	2
0010	763+67	LT, RT	2
0010	768+85	LT, RT	2
0010	771+28	LT, RT	2
0010	777+51	LT, RT	2
0010	781+95	LT, RT	2
0010	787+10	LT, RT	2
0010	806+46	LT, RT	2
0010	811+52	LT, RT	2
0010	814+53	LT, RT	2
0010	818+98	LT, RT	2
0010	822+00	LT, RT	2
0010	826+40	LT, RT	2
0010	826+44	LT, RT	2
0010	830+41	LT, RT	2
0010	836+39	LT, RT	2
0010	857+10	LT, RT	2
0010	873+80	LT, RT	2
0010	876+75	LT, RT	2
0010	879+50	LT, RT	2
	TOTAL 0010		94

CATEGORY	STATION	LOCATION	* 638.2102 MOVING SIGNS TYPE II EACH	* 638.4000 MOVING SMALL SIGN SUPPORTS EACH
0010	491+00	LT	1	1
0010	567+50	LT	1	1
0010	589+00	LT	1	1
0010	620+00	LT	1	1
0010	621+00	RT	1	1
0010	642+00	RT	1	1
0010	666+00	LT	1	1
0010	696+00	RT	1	1
0010	701+00	LT	1	1
0010	854+00	LT	1	1
		TOTAL 0010	10	10

* QUANTITIES INCLUDED IN CASE NO PASSING ZONE LOCATIONS ARE ALTERED

CATEGORY	STATION	TO	STATION	LOCATION	642.5001 FIELD OFFICE TYPE B EACH
0010	452+50	-	880+00	PROJECT	1
				TOTAL 0010	1

CATEGORY	STATION	TO	STATION	LOCATION	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.5000 TRAFFIC CONTROL EACH
0010	452+50	-	880+00	PROJECT	11,664	13,041	1
				TOTAL 0010	11,664	13,041	1

CATEGORY	STATION	LOCATION	645.0120 GEOTEXTILE TYPE HR SY
0010	473+83		15
0010	511+12		8
0010	518+46		14
0010	569+39		8
0010	596+54	LT	32
0010	596+54	RT	32
0010	619+22		2
0010	627+96		7
0010	722+78	LT	13
0010	722+78	RT	22
0010	750+20		11
0010	754+55		8
0010	757+89	?	8
0010	873+80		8
		TOTAL 0010	188

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646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH

CATEGORY	STATION	TO	STATION	LF	REMARKS
0010	453+30	-	467+35	1405	DOUBLE YELLOW
0010	453+30	-	467+35	1405	DOUBLE YELLOW
0010	467+35	-	473+36	601	SOLID
0010	467+35	-	473+36	150	DASH
0010	473+36	-	490+90	438	DASH
0010	490+90	-	502+42	288	DASH
0010	490+90	-	502+42	1,152	SOLID
0010	502+42	-	508+93	651	SOLID
0010	502+42	-	508+93	651	SOLID
0010	508+93	-	517+95	902	SOLID
0010	508+93	-	517+95	225	DASH
0010	517+95	-	520+46	251	Solid
0010	517+95	-	520+46	251	Solid
0010	520+46	-	529+98	238	DASH
0010	520+46	-	529+98	952	SOLID
0010	529+98	-	555+03	2,505	SOLID
0010	529+98	-	555+03	2,505	SOLID
0010	555+03	-	564+05	902	SOLID
0010	555+03	-	564+05	225	DASH
0010	564+05	-	566+05	200	SOLID
0010	564+05	-	566+05	200	SOLID
0010	566+05	-	576+07	251	DASH
0010	566+05	-	576+07	1,002	SOLID
0010	576+07	-	576+57	50	SOLID
0010	576+07	-	576+57	50	SOLID
0010	576+57	-	585+59	902	SOLID
0010	576+57	-	585+59	225	DASH
0010	585+59	-	587+09	150	SOLID
0010	585+59	-	587+09	150	SOLID
0010	587+09	-	599+11	301	DASH
0010	587+09	-	599+11	1,202	SOLID
0010	599+11	-	604+12	501	SOLID
0010	599+11	-	604+12	501	SOLID
0010	604+12	-	613+64	952	SOLID
0010	604+12	-	613+64	238	DASH
0010	613+64	-	614+64	100	SOLID
0010	613+64	-	614+64	100	SOLID
0010	614+64	-	625+16	263	DASH
0010	614+64	-	625+16	1,052	SOLID
			SUBTOTAL 0010	24,089	

646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	625+16	-	636+68		1,052	SOLID
0010	625+16	-	636+68		288	DASH
0010	636+68	-	657+22		514	DASH
0010	657+22	-	668+74		288	DASH
0010	657+22	-	668+74		1,152	SOLID
0010	668+74	-	673+75		501	SOLID
0010	668+74	-	673+75		501	SOLID
0010	673+75	-	684+77		1,102	SOLID
0010	673+75	-	684+77		276	DASH
0010	684+77	-	690+78		150	DASH
0010	690+78	-	704+31		338	DASH
0010	690+78	-	704+31		1,353	SOLID
0010	704+31	-	755+41		5,110	SOLID
0010	704+31	-	755+41		5,110	SOLID
0010	755+41	-	766+43		1,102	SOLID
0010	755+41	-	766+43		276	DASH
0010	766+43	-	779+96		338	DASH
0010	766+43	-	779+96		1,353	SOLID
0010	779+96	-	813+03		3,307	SOLID
0010	779+96	-	813+03		3,307	SOLID
0010	813+03	-	824+05		1,102	SOLID
0010	813+03	-	824+05		276	DASH
0010	824+05	-	832+57		213	DASH
0010	832+57	-	846+60		351	DASH
0010	832+57	-	846+60		1,403	SOLID
0010	846+60	-	876+25		2,965	SOLID
0010	846+60	-	876+25		2,965	SOLID
0010	454+07	-	466+41	LT	1,234	WHITE
0010	465+24	-	567+65	RT	10,241	WHITE
0010	466+79	-	598+58	LT	13,179	WHITE
0010	568+70	-	579+54	RT	1,084	WHITE
0010	599+69	-	856+60	LT	25,691	WHITE
0010	580+53	-	593+78	RT	1,325	WHITE
0010	594+65	-	654+46	RT	5,981	WHITE
0010	655+37	-	667+27	RT	1,190	WHITE
0010	668+74	-	681+60	RT	1,286	WHITE
0010	682+62	-	742+50	RT	5,988	WHITE
0010	743+55	-	791+95	RT	4,840	WHITE
0010	792+78	-	804+33	RT	1,155	WHITE
0010	805+54	-	866+60	RT	6,106	WHITE
0010	857+73	-	876+70	LT	1,897	WHITE
0010	867+42	-	880+00	RT	1,258	WHITE
0010	877+44	-	880+00	LT	256	WHITE
				SUBTOTAL 0010	119,402	
				TOTAL 0010	143,491	

646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	454+07	-	456+48	LT	241	Solid
0010	803+28	-	804+33	RT	105	Solid
0010	857+73	-	859+75	LT	202	Solid
0010	864+64	-	866+60	RT	196	Solid
				TOTAL 0010	744	

646.5420 MARKING AERIAL ENFORCEMENT BAR EPOXY

CATEGORY	STATION	LOCATION	EACH
0010	667+26	LT	1
0010	667+26	RT	1
0010	660+66	LT	1
0010	660+66	RT	1
0010	654+06	LT	1
0010	654+06	RT	1
0010	647+46	LT	1
0010	647+46	RT	1
0010	640+86	LT	1
0010	640+86	RT	1
		TOTAL 0010	10

646.4520 MARKING LINE SAME DAY EPOXY 4-INCH

CATEGORY	LOCATION	LF
0010	PROJECT CENTERLINE	61,713
	TOTAL 0010	61,713

646.6120 MARKING STOP LINE EPOXY 18-INCH

CATEGORY	STATION	LF
0010	453+06	24
0010	453+67	56
	TOTAL 0010	80

648.0100 LOCATING NO-PASSING ZONES

CATEGORY	STATION	TO	STATION	LOCATION	MI
0010	452+50	-	880+00	PROJECT	8.2
				TOTAL 0010	8.2

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649.0120
TEMPORARY MARKING
LINE EPOXY 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	453+30	-	467+35	MILLED SURFACE	1405	DOUBLE YELLOW
0010	453+30	-	467+35	MILLED SURFACE	1405	DOUBLE YELLOW
0010	467+35	-	473+36	MILLED SURFACE	602	SOLID
0010	467+35	-	473+36	MILLED SURFACE	49	DASH
0010	473+36	-	490+90	MILLED SURFACE	141	DASH
0010	490+90	-	502+42	MILLED SURFACE	93	DASH
0010	490+90	-	502+42	MILLED SURFACE	1,153	SOLID
0010	502+42	-	508+93	MILLED SURFACE	652	SOLID
0010	502+42	-	508+93	MILLED SURFACE	652	SOLID
0010	508+93	-	517+95	MILLED SURFACE	902	SOLID
0010	508+93	-	517+95	MILLED SURFACE	73	DASH
0010	517+95	-	520+46	MILLED SURFACE	251	SOLID
0010	517+95	-	520+46	MILLED SURFACE	251	SOLID
0010	520+46	-	529+98	MILLED SURFACE	77	DASH
0010	520+46	-	529+98	MILLED SURFACE	952	SOLID
0010	529+98	-	555+03	MILLED SURFACE	2,505	SOLID
0010	529+98	-	555+03	MILLED SURFACE	2,505	SOLID
0010	555+03	-	564+05	MILLED SURFACE	902	SOLID
0010	555+03	-	564+05	MILLED SURFACE	73	DASH
0010	564+05	-	566+05	MILLED SURFACE	201	SOLID
0010	564+05	-	566+05	MILLED SURFACE	201	SOLID
0010	566+05	-	576+07	MILLED SURFACE	81	DASH
0010	566+05	-	576+07	MILLED SURFACE	1,002	SOLID
0010	576+07	-	576+57	MILLED SURFACE	50	SOLID
0010	576+07	-	576+57	MILLED SURFACE	50	SOLID
0010	576+57	-	585+59	MILLED SURFACE	902	SOLID
0010	576+57	-	585+59	MILLED SURFACE	73	DASH
0010	585+59	-	587+09	MILLED SURFACE	150	SOLID
0010	585+59	-	587+09	MILLED SURFACE	150	SOLID
0010	587+09	-	599+11	MILLED SURFACE	97	DASH
0010	587+09	-	599+11	MILLED SURFACE	1,203	SOLID
0010	599+11	-	604+12	MILLED SURFACE	501	SOLID
0010	599+11	-	604+12	MILLED SURFACE	501	SOLID
0010	604+12	-	613+64	MILLED SURFACE	952	SOLID
0010	604+12	-	613+64	MILLED SURFACE	77	DASH
0010	613+64	-	614+64	MILLED SURFACE	100	SOLID
0010	613+64	-	614+64	MILLED SURFACE	100	SOLID
0010	614+64	-	625+16	MILLED SURFACE	85	DASH
0010	614+64	-	625+16	MILLED SURFACE	1,053	SOLID
0010	625+16	-	636+68	MILLED SURFACE	1,153	SOLID
0010	625+16	-	636+68	MILLED SURFACE	93	DASH
0010	636+68	-	657+22	MILLED SURFACE	165	DASH
0010	657+22	-	668+74	MILLED SURFACE	93	DASH
0010	657+22	-	668+74	MILLED SURFACE	1,153	SOLID
				SUBTOTAL 0010	24,829	

649.0120
TEMPORARY MARKING
LINE EPOXY 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	668+74	-	673+75	MILLED SURFACE	501	SOLID
0010	668+74	-	673+75	MILLED SURFACE	501	SOLID
0010	673+75	-	684+77	MILLED SURFACE	1,103	SOLID
0010	673+75	-	684+77	MILLED SURFACE	89	DASH
0010	684+77	-	690+78	MILLED SURFACE	49	DASH
0010	690+78	-	704+31	MILLED SURFACE	109	DASH
0010	690+78	-	704+31	MILLED SURFACE	1,353	SOLID
0010	704+31	-	755+41	MILLED SURFACE	5,111	SOLID
0010	704+31	-	755+41	MILLED SURFACE	5,111	SOLID
0010	755+41	-	766+43	MILLED SURFACE	1,103	SOLID
0010	755+41	-	766+43	MILLED SURFACE	89	DASH
0010	766+43	-	779+96	MILLED SURFACE	109	DASH
0010	766+43	-	779+96	MILLED SURFACE	1,353	SOLID
0010	779+96	-	813+03	MILLED SURFACE	3,307	SOLID
0010	779+96	-	813+03	MILLED SURFACE	3,307	SOLID
0010	813+03	-	824+05	MILLED SURFACE	1,103	SOLID
0010	813+03	-	824+05	MILLED SURFACE	89	DASH
0010	824+05	-	832+57	MILLED SURFACE	69	DASH
0010	832+57	-	846+60	MILLED SURFACE	113	DASH
0010	832+57	-	846+60	MILLED SURFACE	1,403	SOLID
0010	846+60	-	876+25	MILLED SURFACE	2,965	SOLID
0010	846+60	-	876+25	MILLED SURFACE	2,965	SOLID
				SUBTOTAL 0010	31,902	
				PAGE 1 TOTAL 0010	56,731	

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649.0120
TEMPORARY MARKING
LINE EPOXY 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	453+30	-	467+35	1ST LAYER	1405	DOULBE YELLOW
0010	453+30	-	467+35	1ST LAYER	1405	DOUBLE YELLOW
0010	467+35	-	473+36	1ST LAYER	602	SOLID
0010	467+35	-	473+36	1ST LAYER	1,103	DASH
0010	473+36	-	490+90	1ST LAYER	141	DASH
0010	490+90	-	502+42	1ST LAYER	93	DASH
0010	490+90	-	502+42	1ST LAYER	1,153	SOLID
0010	502+42	-	508+93	1ST LAYER	652	SOLID
0010	502+42	-	508+93	1ST LAYER	652	SOLID
0010	508+93	-	517+95	1ST LAYER	902	SOLID
0010	508+93	-	517+95	1ST LAYER	73	DASH
0010	517+95	-	520+46	1ST LAYER	251	SOLID
0010	517+95	-	520+46	1ST LAYER	251	SOLID
0010	520+46	-	529+98	1ST LAYER	77	DASH
0010	520+46	-	529+98	1ST LAYER	952	SOLID
0010	529+98	-	555+03	1ST LAYER	2,505	SOLID
0010	529+98	-	555+03	1ST LAYER	2,505	SOLID
0010	555+03	-	564+05	1ST LAYER	902	SOLID
0010	555+03	-	564+05	1ST LAYER	73	DASH
0010	564+05	-	566+05	1ST LAYER	201	SOLID
0010	564+05	-	566+05	1ST LAYER	201	SOLID
0010	566+05	-	576+07	1ST LAYER	81	DASH
0010	566+05	-	576+07	1ST LAYER	1,002	SOLID
0010	576+07	-	576+57	1ST LAYER	50	SOLID
0010	576+07	-	576+57	1ST LAYER	50	SOLID
0010	576+57	-	585+59	1ST LAYER	902	SOLID
0010	576+57	-	585+59	1ST LAYER	73	DASH
0010	585+59	-	587+09	1ST LAYER	150	SOLID
0010	585+59	-	587+09	1ST LAYER	150	SOLID
0010	587+09	-	599+11	1ST LAYER	97	DASH
0010	587+09	-	599+11	1ST LAYER	1,203	SOLID
0010	599+11	-	604+12	1ST LAYER	501	SOLID
0010	599+11	-	604+12	1ST LAYER	501	SOLID
0010	604+12	-	613+64	1ST LAYER	952	SOLID
0010	604+12	-	613+64	1ST LAYER	77	DASH
				SUBTOTAL 0010	21,888	

649.0120
TEMPORARY MARKING
LINE EPOXY 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	613+64	-	614+64	1st Layer	100	Solid
0010	613+64	-	614+64	1st Layer	100	Solid
0010	614+64	-	625+16	1st Layer	85	Dash
0010	614+64	-	625+16	1st Layer	1,053	Solid
0010	625+16	-	636+68	1st Layer	1,153	Solid
0010	625+16	-	636+68	1st Layer	93	Dash
0010	636+68	-	657+22	1st Layer	165	Dash
0010	657+22	-	668+74	1st Layer	93	Dash
0010	657+22	-	668+74	1st Layer	1,153	Solid
0010	668+74	-	673+75	1st Layer	501	Solid
0010	668+74	-	673+75	1st Layer	501	Solid
0010	673+75	-	684+77	1st Layer	1,103	Solid
0010	673+75	-	684+77	1st Layer	89	Dash
0010	684+77	-	690+78	1st Layer	49	Dash
0010	690+78	-	704+31	1st Layer	109	Dash
0010	690+78	-	704+31	1st Layer	1,353	Solid
0010	704+31	-	755+41	1st Layer	5,111	Solid
0010	704+31	-	755+41	1st Layer	5,111	Solid
0010	755+41	-	766+43	1st Layer	1,103	Solid
0010	755+41	-	766+43	1st Layer	89	Dash
0010	755+41	-	766+43	1st Layer	89	Dash
0010	766+43	-	779+96	1st Layer	109	Dash
0010	766+43	-	779+96	1st Layer	1,353	Solid
0010	779+96	-	813+03	1st Layer	3,307	Solid
0010	779+96	-	813+03	1st Layer	3,307	Solid
0010	813+03	-	824+05	1st Layer	1,103	Solid
0010	813+03	-	824+05	1st Layer	89	Dash
0010	824+05	-	832+57	1st Layer	69	Dash
0010	832+57	-	846+60	1st Layer	113	Dash
0010	832+57	-	846+60	1st Layer	1,403	Solid
0010	846+60	-	876+25	1st Layer	2,965	Solid
0010	846+60	-	876+25	1st Layer	2,965	Solid
				SUBTOTAL 0010	35,897	
				PAGE 2 TOTAL 0010	57,785	
				PAGE 1 TOTAL 0010	56,731	
				PROJECT TOTAL 0010	114,516	

650.4000
CONSTRUCTION STAKING
STORM SEWER

CATEGORY	STATION	LOCATION	EACH	REMARKS
0010	822+00	RT	1	2 x 3 INLET
0010	870+50	RT	1	2 x 3 INLET
0010	870+50	RT	1	1 GRATE INLET
0010	873+80	RT	1	2 x 3 INLET
0010	873+80	RT	1	2 GRATE INLET
0010	876+75	RT	1	2 x 3 INLET
0010	876+75	RT	1	1 GRATE INLET
0010	879+50	RT	1	2 x 3 INLET
0010	879+50	RT	1	1 GRATE INLET
		TOTAL 0010	9	

650.5500
CONSTRUCTION STAKING CURB
GUTTER AND CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	LF
0010	821+93	-	821+99	RT	6
0010	822+02	-	822+08	RT	6
0010	870+43	-	870+49	RT	6
0010	870+52	-	870+58	RT	6
0010	873+73	-	873+79	RT	6
0010	873+82	-	873+88	RT	6
0010	876+68	-	876+74	RT	6
0010	876+77	-	876+83	RT	6
0010	879+43	-	879+49	RT	6
0010	879+52	-	879+58	RT	6
				TOTAL 0010	60

650.6000
CONSTRUCTION STAKING
PIPE CULVERTS

CATEGORY	STATION	LOCATION	EACH
0010	475+98		1
0010	494+73		1
0010	511+12		1
0010	543+45		1
0010	552+76		1
0010	750+20		1
0010	754+55		1
0010	757+89		1
0010	777+51		1
0010	787+10		1
0010	822+00		1
0010	826+40		1
0010	826+44		1
0010	830+41		1
0010	857+10		1
0010	870+50		1
0010	873+80		1
0010	876+75		1
0010	879+50		1
0010	19+24	SWENSON LANE, RT	1
		TOTAL 0010	20

650.8000
CONSTRUCTION STAKING
RESURFACING REFERENCE

CATEGORY	STATION	TO	STATION	LF
0010	452+50	-	741+15	28,865
0010	741+46	-	798+41	5,695
0010	799+01	-	842+39	4,338
0010	843+39	-	866+28	2,289
0010	866+69	-	880+00	1,331
			TOTAL 0010	42,518

650.9910.01
CONSTRUCTION STAKING
SUPPLEMENTAL CONTROL
(PROJECT) (01. 7130-00-73)

CATEGORY	STATION	TO	STATION	LOCATION	LS
0010	452+50	-	880+00	PROJECT 7130-00-73	1
				TOTAL 0010	1

CATEGORY	STATION	690.0150 SAWING ASPHALT LF	REMARKS
0010	475+92	30	Pipe @ 475+98
0010	476+04	30	Pipe @ 475+98
0010	494+68	30	Pipe @ 494+73
0010	494+78	30	Pipe @ 494+73
0010	511+08	30	Pipe @ 511+12
0010	511+16	30	Pipe @ 511+12
0010	543+40	30	Pipe @ 543+45
0010	543+50	30	Pipe @ 543+45
0010	552+72	30	Pipe @ 552+76
0010	552+80	30	Pipe @ 552+76
0010	750+15	30	Pipe @ 750+20
0010	750+25	30	Pipe @ 750+20
0010	754+51	30	Pipe @ 754+55
0010	754+59	30	Pipe @754+55
0010	757+85	30	Pipe @757+89
0010	757+93	30	Pipe @ 757+89
0010	777+47	30	Pipe @ 777+51
0010	777+55	30	Pipe @ 777+51
0010	821+97	35	Pipe @ 822+00
0010	822+03	35	Pipe @ 822+00
0010	826+34	30	Pipe @826+40
0010	826+50	30	Pipe @ 826+44
0010	830+36	30	Pipe @ 830+41
0010	830+46	30	Pipe @ 830+41
0010	857+06	68	Pipe @ 857+10
0010	857+15	30	Pipe @ 857+10
0010	870+47	32	Pipe @ 870+50
0010	870+53	32	Pipe @ 870+50
0010	873+76	30	Pipe @ 873+80
0010	873+84	30	Pipe @ 873+80
0010	876+71	53	Pipe @ 876+75
0010	876+79	53	Pipe @ 876+75
0010	879+47	30	Pipe @ 879+50
0010	879+53	30	Pipe @ 879+50
TOTAL 0010		1,118	

CATEGORY	STATION	LOCATION	690.0250 SAWING CONCRETE LF
0010	821+93	RT	2.5
0010	822+08	RT	2.5
0010	870+43	RT	2.5
0010	870+58	RT	2.5
0010	873+73	RT	2.5
0010	873+88	RT	2.5
0010	876+68	RT	2.5
0010	876+83	RT	2.5
0010	879+43	RT	2.5
0010	879+58	RT	2.5
TOTAL 0010			25

3

SPV.0060.01
SPECIAL (01. CLEANING CONCRETE BOX CULVERT, 3.5' x 5', STA. 501+40)

CATEGORY	STATION	EACH
0010	501+40	1
	TOTAL 0010	1

SPV.0060.02
SPECIAL (.02 CLEANING CONCRETE BOX CULVERT 3.5' x 5', STA. 518+46)

CATEGORY	STATION	EACH
0010	518+46	1
	TOTAL 0010	1

SPV.0060.03
SPECIAL (.03 CLEANING CONCRETE BOX CULVERT, 7' X 12', STA. 658+68,)

CATEGORY	STATION	EACH
0010	658+68	1
	TOTAL 0010	1

SPV.0060.04
SPECIAL (.04 CLEANING CONCRETE BOX CULVERT, 8' X 12', STA. 685+30)

CATEGORY	STATION	EACH
0010	685+30	1
	TOTAL 0010	1

SPV.0105.01
SPECIAL (01. MATERIAL TRANSFER VEHICLE)

CATEGORY	STATION	TO	STATION	LOCATION	LS
0010	452+50	-	880+00	PROJECT	1
				TOTAL 0010	1

SPV.0090.01
SPECIAL (01. CONCRETE CURB AND GUTTER CURE AND SEAL TREATMENT)

CATEGORY	STATION	TO	STATION	LOCATION	LF
0010	821+93	-	821+99	RT	6
0010	822+02	-	822+08	RT	6
0010	870+43	-	870+49	RT	6
0010	870+52	-	870+58	RT	6
0010	873+73	-	873+79	RT	6
0010	873+82	-	873+88	RT	6
0010	876+68	-	876+74	RT	6
0010	876+77	-	876+83	RT	6
0010	879+43	-	879+49	RT	6
0010	879+52	-	879+58	RT	6
				TOTAL 0010	60

SPV.0090.02
SPECIAL (02. HMA LANE REPAIR)

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	589+65	-	591+23	OUTSIDE LANE	158	NORTHBOUND
0010	595+95	-	598+06	BYPASS LANE DASH	211	NORTHBOUND
0010	606+85	-	608+96	OUTSIDE LANE	211	NORTHBOUND
0010	608+43	-	611+07	INSIDE LANE	264	NORTHBOUND
0010	615+45	-	619+15	OUTSIDE LANE	370	NORTHBOUND
0010	639+85	-	640+38	OUTSIDE LANE	53	NORTHBOUND
0010	803+35	-	804+41	OUTSIDE LANE	106	NORTHBOUND
0010	835+60	-	838+77	OUTSIDE LANE	317	NORTHBOUND
0010	870+25	-	875+00	INSIDE LANE	475	NORTHBOUND
0010	871+30	-	875+00	OUTSIDE LANE	370	NORTHBOUND
0010	563+55	-	572+00	OUTSIDE LANE	845	SOUTHBOUND
0010	590+04	-	592+15	OUTSIDE LANE	211	SOUTHBOUND
0010	596+73	-	599+95	OUTSIDE LANE	322	SOUTHBOUND
0010	653+39	-	655+50	OUTSIDE LANE	211	SOUTHBOUND
0010	657+72	-	658+25	OUTSIDE LANE	53	SOUTHBOUND
0010	693+33	-	700+25	OUTSIDE LANE	692	SOUTHBOUND
0010	719+89	-	720+95	OUTSIDE LANE	106	SOUTHBOUND
0010	734+19	-	736+30	INSIDE LANE	211	SOUTHBOUND
0010	740+57	-	741+10	OUTSIDE LANE	53	SOUTHBOUND
0010	740+57	-	741+10	INSIDE LANE	53	SOUTHBOUND
0010	743+19	-	745+30	BYPASS LANE DASH	211	SOUTHBOUND
0010	799+14	-	801+25	OUTSIDE LANE	211	SOUTHBOUND
0010	867+19	-	869+30	INSIDE LANE	211	SOUTHBOUND
				TOTAL 0010	5,925	

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

SIGN
STH 35
INL
A/C
SIGN
ML -
452+00
453+00
454+00
455+00
456+00
457+00
STH 35
STH 93
SIGN
BEGIN CONSTRUCTION
STA 452+50
BUTT JOINT REQ'D
STH 54/93
SIGN
INL
PE ASPH
PE CABC
N
5
5
PE ASPH
PE CABC
SIGN
ML -
457+00
458+00
459+00
460+00
461+00
462+00
463
PE ASPH
PE CABC
SIGN
PE ASPH
N
W
W
W
N
N
LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 105	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 01
PLOT DATE : 11/17/2020 10:49 AM
PLOT BY : UEHLING, ANDREW E
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

N16239

TODD RD

ML -

SIGN

PE ASPH

PE CABC

463+00 464+00 465+00 466+00 467+00 468+00

5

5

N

(168)

TRACK CR

FE CABC

FO

468+00 469+00 470+00 471+00 472+00 473+00

100
737.896
CP 3/4 INCH X 2 FT CAPPED REBAR

(169)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 106	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 02

PLOT DATE : 11/17/2020 10:51 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

STA. 473+83
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D
1 - GEOTEXTILE FABRIC HR (14 SY)(REQ'D
1 - PLACE RIPRAP, LT. (16' X 8') REQ'D

STA. 475+98
1 - CULVERT PIPE SALVAGED 36" REQ'D
2 - MARKERS CULVERT END REQ'D

ML -

TAMARACK CR

473+00 474+00 475+00 N0° 10' 13.19"W 476+00 477+00 478+00

4801.300

FE
CABC

FO

N

5

5

(170)

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

ML -

STA. 481+56
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

478+00 479+00 480+00 481+00 482+00 483+00 484+00

FE
CABC

N

(171)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 107	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 03

PLOT DATE : 11/17/2020 10:52 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

TAMARACK CR

484+00 485+00 486+00 487+00 488+00 489+00

N

5

5

(172)

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

PE CABC

489+00 490+00 491+00 492+00 493+00 494+00

FE CABC

STA. 494+73
REMOVE 18" CMCP REQ'D
1 - 24" CP CLASS III-B NON-METAL (112') REQ'D
2 - APRON ENWALLS REQ'D
2 - MARKERS CULVERT END REQ'D

FO

FO

N

NGS

101
740.883
NGS TREMPEALEAU C GPS OBSERVED

212
740.950
NGS TREMPEALEAU C GPS

(173)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 108	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 04

PLOT DATE : 11/17/2020 10:54 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

STA. 494+73
REMOVE 18" LENGTH CMCP REQ'D
1 - 24" CP CLASS III-B NON-METAL (112') - REQ'D
2 - APRON ENWALLS REQ'D
2 - MARKERS CULVERT END REQ'D

TAMARACK CR

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

PC: 499+51.30

494+00 495+00 496+00 497+00 498+00 499+00 500+00

FO FO FO FO

5

5

(174)

PC: 499+51.30

WETLAND

FE CABC

500+00 501+00 502+00 503+00 504+00 505+00

PE ASPH

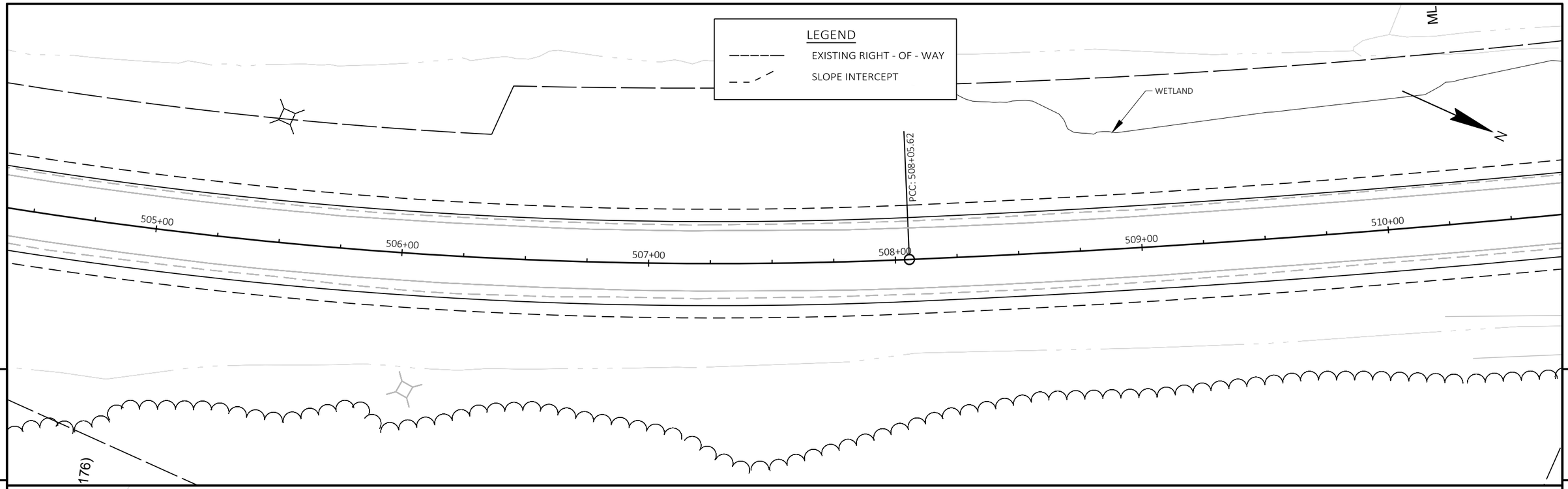
STA. 501+40
1 - CLEANING CONCRETE BOX CULVERT REQ'D
2 - MARKERS CULVERT END REQ'D

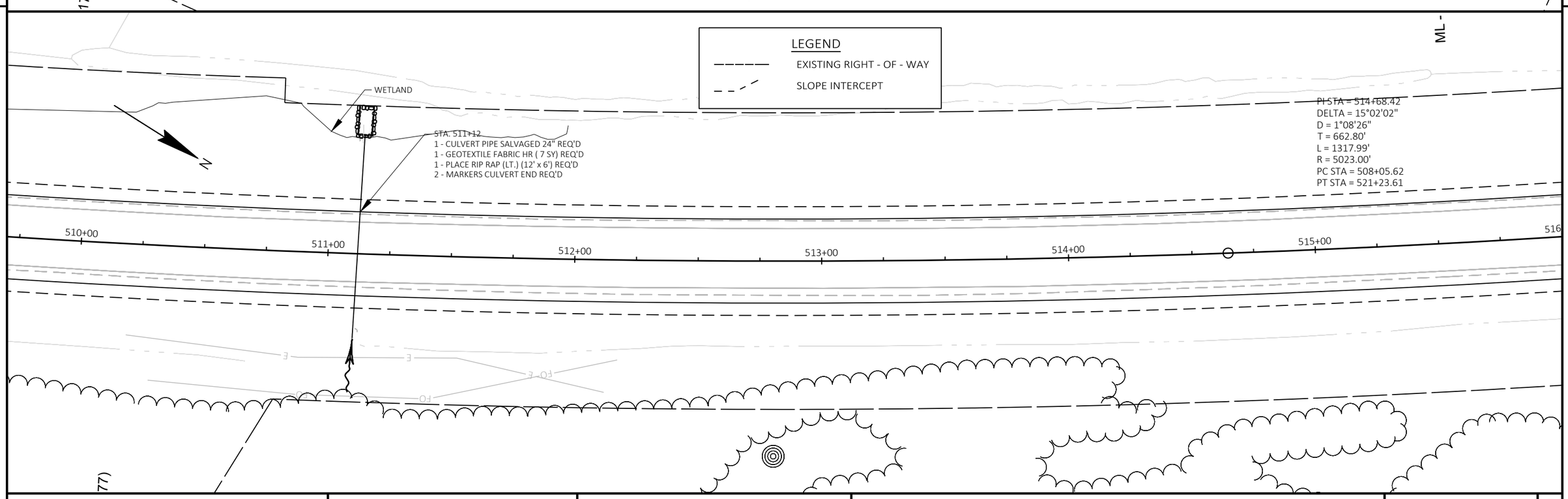
PI STA = 503+86.33
DELTA = 26°38'46"
D = 3°07'08"
T = 435.03'
L = 854.32'
R = 1837.00'
PC STA = 499+51.30
PT STA = 508+05.62

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 109	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 05

PLOT DATE : 11/17/2020 10:55 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT





PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 110	E

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

D = 1°08'26"
T = 662.80'
L = 1317.99'
R = 5023.00'
PC STA = 508+05.62
PT STA = 521+23.61

STA. 518+46
1 - CLEANING CONCRETE BOX CULVERT REQ'D
1 - GEOTEXTILE FABRIC HR (13 SY) REQ'D
1 - PLACE RIP RAP, (LT.) (11' x 12 ') REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

ML

PT: 521+23.61

516+00 517+00 518+00 519+00 520+00 521+00

PE CABC

FE CABC

WETLAND

5

5

(178)

N

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

ML -

PT: 521+23.61

FE CABC

521+00 522+00 523+00 524+00 525+00 526+00

N41° 51' 01.41"W

1035.081

PE CABC

WETLAND

79)

N

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 111	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 07

PLOT DATE : 11/17/2020 10:59 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

STA. 527+12
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

PC: 531+58.69

526+00 527+00 528+00 529+00 530+00 531+00

N41° 51' 01.41"W
1035.081

WETLAND

(180)

5

5

ML -

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

PC: 531+58.69

PI STA = 535+79.99
DELTA = 20°27'19"
D = 2°27'14"
T = 421.30'
L = 833.62'
R = 2335.00'
PC STA = 531+58.69
PT STA = 539+92.32

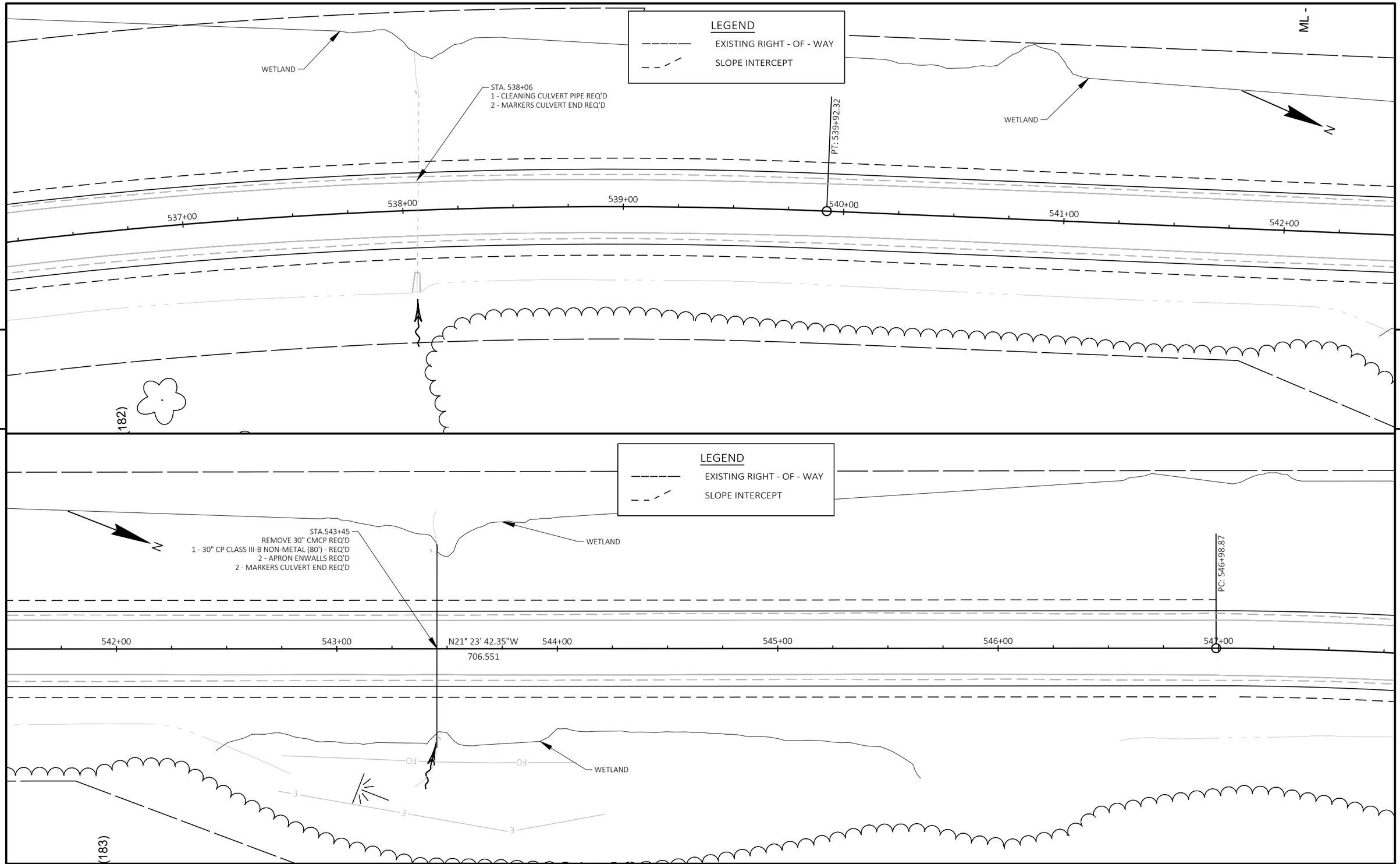
531+00 532+00 533+00 534+00 535+00 536+00 537+00

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 112	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 08

PLOT DATE : 11/17/2020 11:00 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 113	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 09
PLOT DATE : 11/17/2020 11:02 AM
PLOT BY : UEHLING, ANDREW E
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

WETLAND

PC: 546+98.87

547+00

548+00

549+00

550+00

551+00

552+00

553+00

FE
CABC

ML -

FO

N

5

5

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

PI STA = 554+41.54
DELTA = 52°48'11"
D = 3°49'48"
T = 742.67'
L = 1378.70'
R = 1496.00'
PC STA = 546+98.87
PT STA = 560+77.56

STA. 552+76
1 - CULVERT PIPE SALVAGED 30" REQ'D
2 - MARKERS CULVERT END REQ'D

STA. 556+89 - 560+87 , LT
REMOVE EXISTING GUARDRAIL

STA. 556+89 - 560+87, LT
MGS GUARDRAIL 3 REQ'D
1 - STEEL THRIE BEAM REQ'D
1 - ENERGY ABSORBING TERMINAL REQ'D

FE
CABC

553+00

554+00

555+00

556+00

557+00

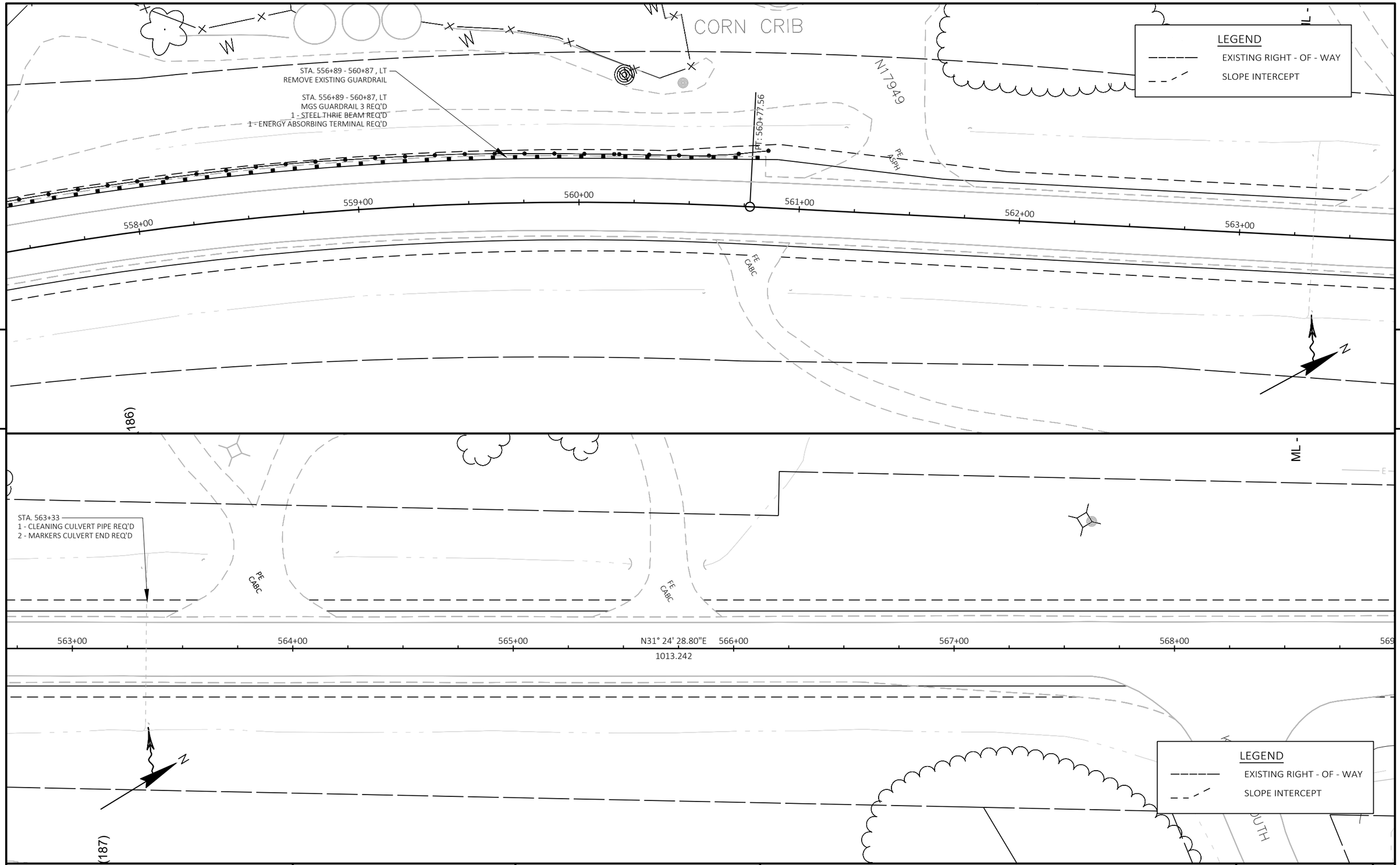
558+00

ML -

FO

N

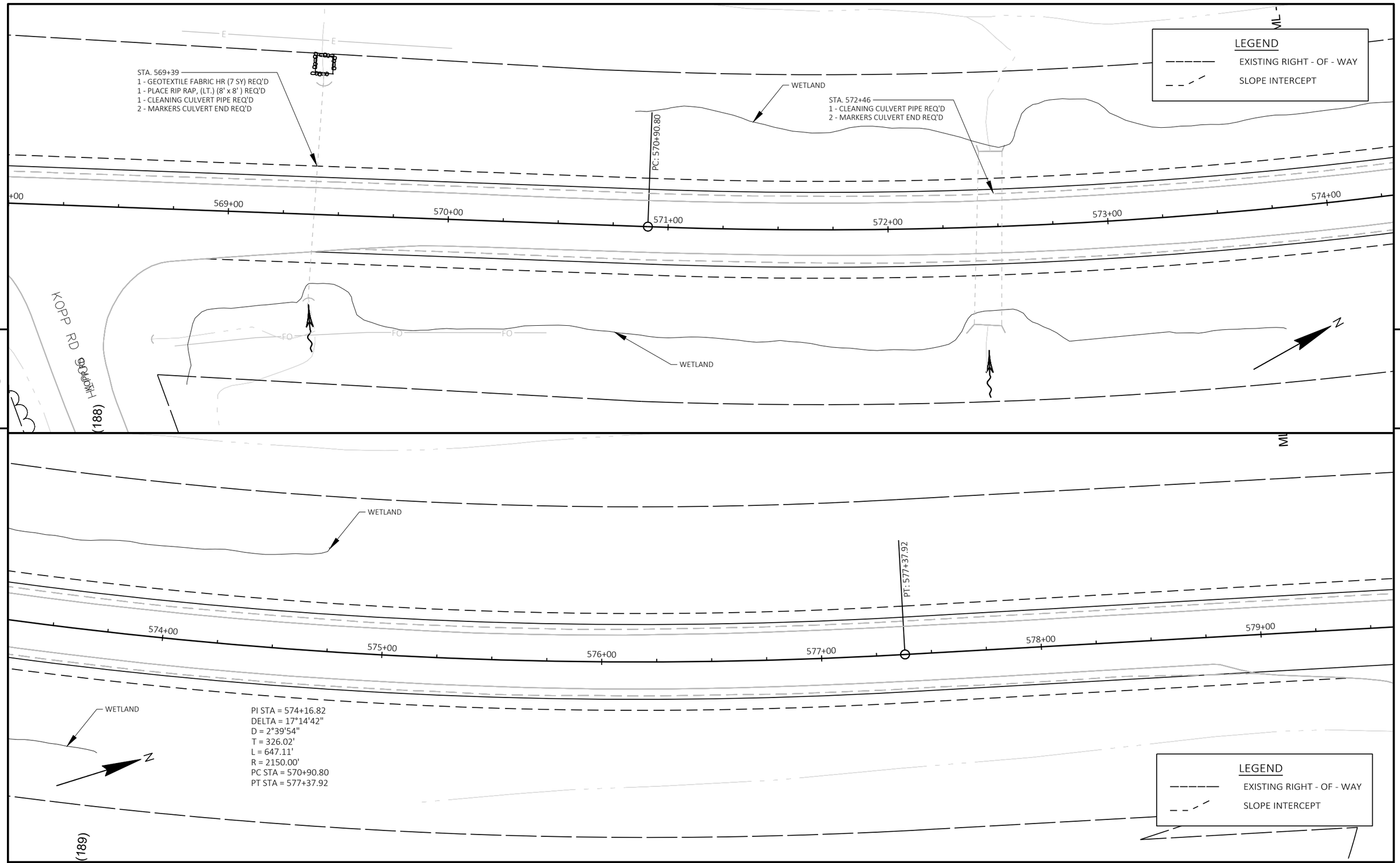
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 114	E



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 115	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 11

PLOT DATE : 11/17/2020 11:05 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 116	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 12

PLOT DATE : 11/17/2020 11:07 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

579+00 580+00 581+00 582+00 583+00 584+00

KOPP RD NORTH

5

5

WETLAND

STA. 587+48
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

584+00 585+00 586+00 587+00 588+00 589+00 590+00

N14° 09' 46.73"E
2358.595

PE
CABC

(191)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 117	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 13

PLOT DATE : 11/17/2020 11:08 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

09' 46.73"E
358.595

590+00 591+00 592+00 593+00 594+00 595+00

TROWBRIDGE LANE

SIGN

(192)

WETLAND

E E E

HO

BORTLE RD

STA. 596+54
1 - GEOTEXTILE FABRIC HR (32 SY) REQ'D
1 - PLACE RIP RAP, (LT.) (24' x 12') REQ'D
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

STA. 597+74
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

595+00 596+00 597+00 598+00 599+00 600+00

SIGN

STA. 596+54
1 - GEOTEXTILE FABRIC HR (32 SY) REQ'D
1 - PLACE RIP RAP, (RT.) 24(' x 12') REQ'D

WETLAND

NGS

209
769.790
NGS 4R06

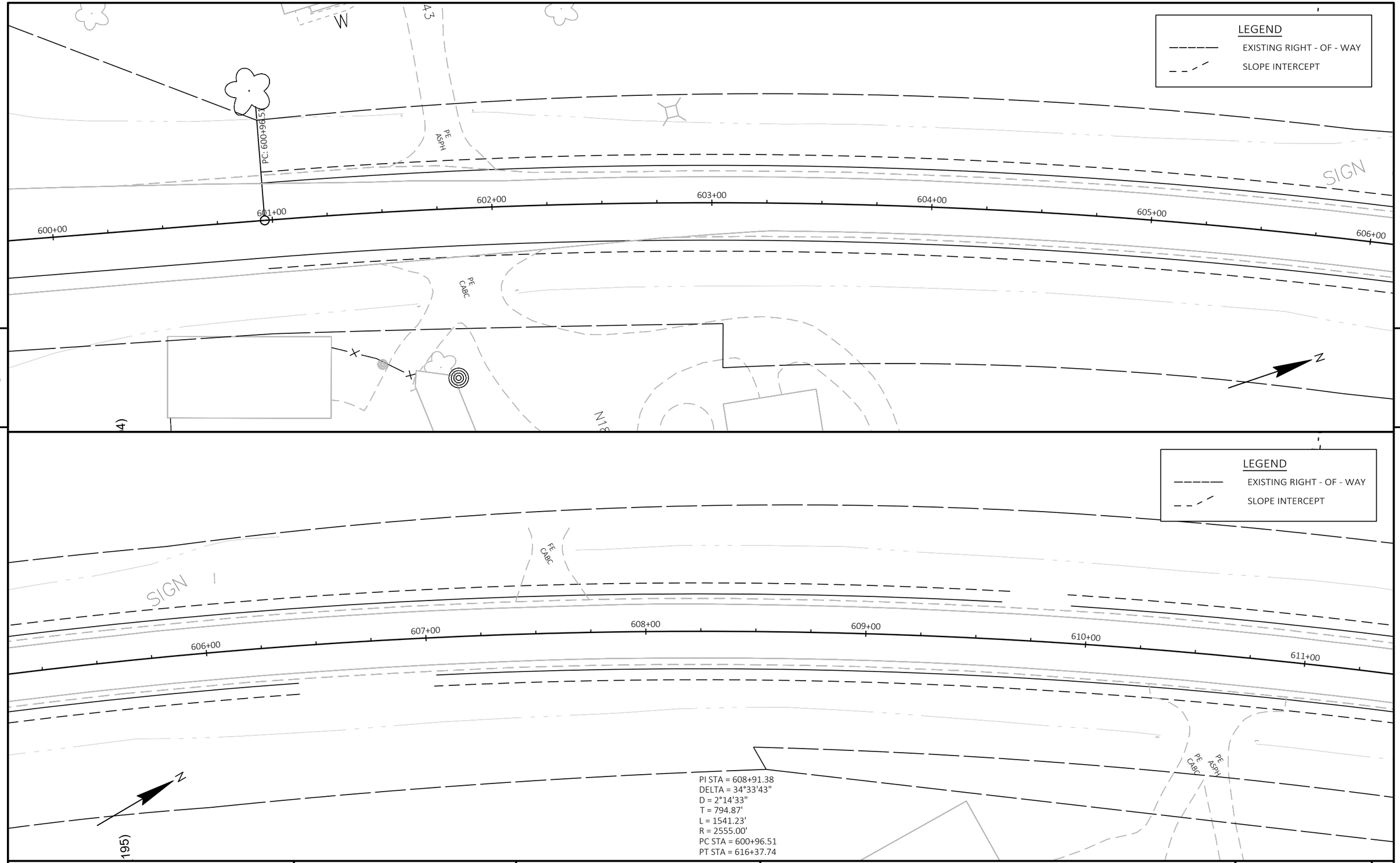
(193)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 118	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 14

PLOT DATE : 11/17/2020 11:10 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



5

5

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 119	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 15

PLOT DATE : 11/17/2020 11:12 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

ML -

N

PT: 616+37.74

611+00 612+00 613+00 614+00 615+00 616+00

PE CABC

PE ASPH

(196)

5

5

STA. 619+22
1 - CLEANING CULVERT PIPE REQ'D
1- GEOTEXTILE FABRIC HR, (LT.) (.5 SY) REQ'D
1 - PLACE RIP RAP (LT.) (2 FT X 8 FT) REQ'D
2 - MARKERS CULVERT END REQ'D

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

N

PT: 616+37.74

FE CABC

616+00 617+00 618+00 619+00 620+00 621+00 622

FE CABC

PE ASPH

(197)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 120	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 16

PLOT DATE : 11/17/2020 11:13 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

ML -

N

+00 622+00 623+00 624+00 625+00 626+00 627+00

N48° 43' 30.08"E
1225.976

FE
CABC

5

5

(198)

STA. 627+96
1 - CLEANING CULVERT PIPE REQ'D
1- GEOTEXTILE FABRIC HR, (LT.) (7 SY) REQ'D
1 - PLACE RIP RAP (10 FT X 6 FT) REQ'D
2 - MARKERS CULVERT END REQ'D

PC: 628+63.72

FE
CABC

627+00 628+00 629+00 630+00 631+00 632+00

FE
CABC

PE
ASPH

N19082

(199)

L -

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 121	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 17

PLOT DATE : 11/17/2020 11:15 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

632+00 633+00 634+00 635+00 636+00 637+00

PT: 637+11.81

PE ASPH

PI STA = 632+90.94
DELTA = 17°06'36"
D = 2°01'03"
T = 427.23'
L = 848.10'
R = 2840.00'
PC STA = 628+63.72
PT STA = 637+11.81

WETLAND

N

5

5

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

WETLAND

STA. 639+82
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

PT: 637+11.81

637+00 638+00 639+00 640+00 641+00 642+00 643+00

N

WETLAND

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 122	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 18

PLOT DATE : 11/17/2020 11:16 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WETLAND

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

643+00 644+00 645+00 646+00 647+00 648+00

5

5

(202)

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

648+00 649+00 650+00 651+00 652+00 653+00

(203)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 123	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 19

PLOT DATE : 11/17/2020 11:18 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

ML -

WETLAND

WETLAND

STA. 658+68
1 - CLEANING CONCRETE BOX CULVERT REQ'D
2 - MARKERS CULVERT END REQ'D

653+00 654+00 655+00 N31° 36' 54.12"E 3652.146 656+00 657+00 658+00 659+00

WETLAND

ROGNEBY LANE

WETLAND

N

5

5

(204)

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

WETLAND

ML -

N19587

PE
CABC

659+00 660+00 661+00 662+00 663+00 664+00

WETLAND

N

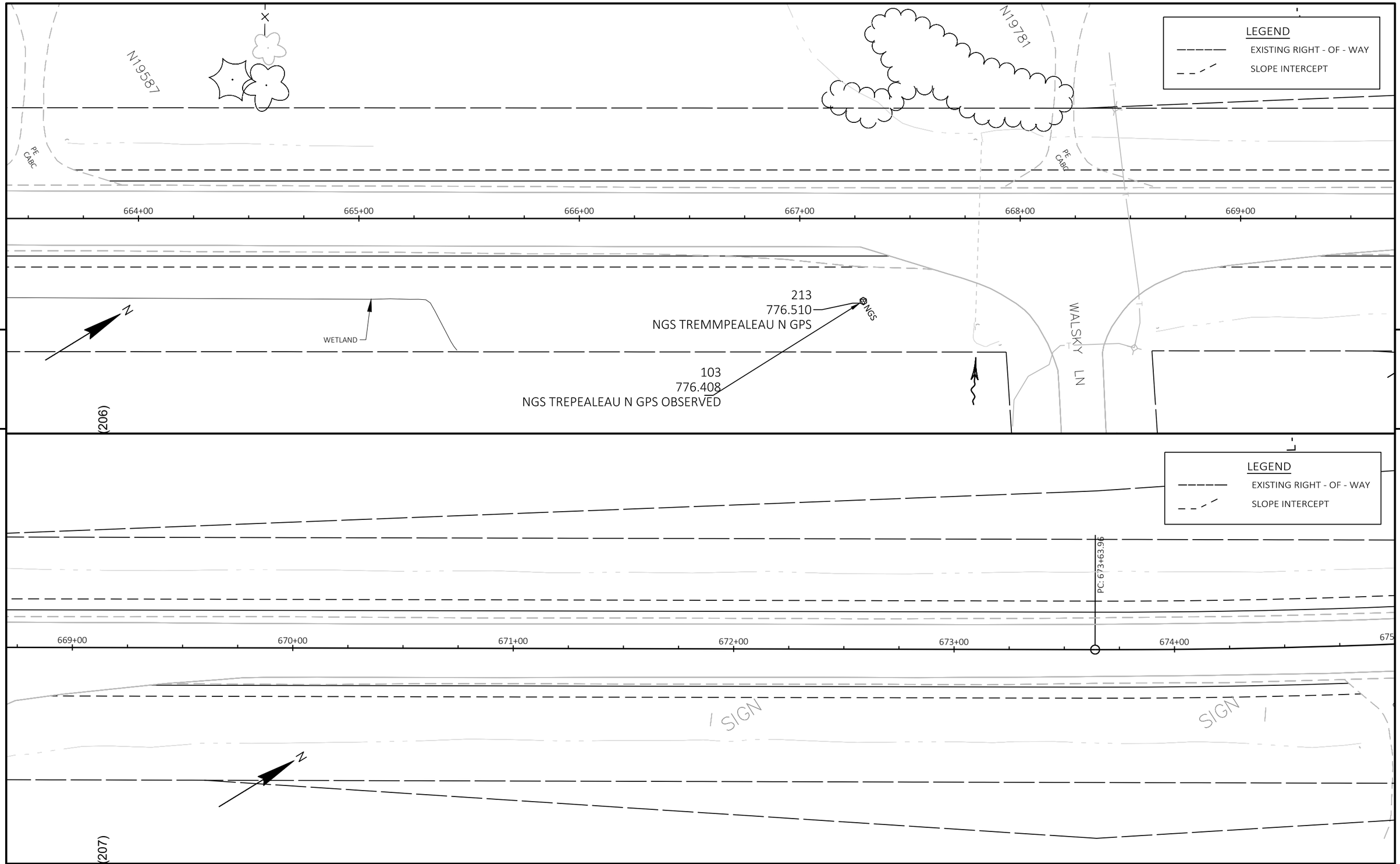
(205)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 124	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 20

PLOT DATE : 11/17/2020 11:20 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 125	E

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

ML -

675+00 676+00 677+00 678+00 679+00 680+00

PE CABC

PE CABC

PE CABC

SIGN

N

5

5

(208)

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

ML -

STA. 685+30
1 - CLEANING CONCRETE BOX CULVERT REQ'D
2 - MARKERS CULVERT END REQ'D

680+00 681+00 682+00 683+00 684+00 685+00

PI STA = 683+59.64
DELTA = 33°40'33"
D = 1°44'29"
T = 995.68'
L = 1933.70'
R = 3290.00'
PC STA = 673+63.96
PT STA = 692+97.66

N

FOX COULEE LN

(208)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 126	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 22

PLOT DATE : 11/17/2020 11:23 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

WETLAND

WETLAND

SIGN

WETLAND

STA. 685+30
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

685+00 686+00 687+00 688+00 689+00 690+00

5

WETLAND

(210)

N

5

WETLAND

SIGN

PT: 692+97.66

690+00 691+00 692+00 693+00 694+00 695+00 696+00

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

N

WETLAND

(211)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 127	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 23

PLOT DATE : 11/17/2020 11:24 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

ML -

PE
CABC

696+00 697+00 698+00 699+00 700+00 701+00

5

WETLAND

N

(212)

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

ML -

STA. 705+48
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

N20155

PE
CABC

701+00 702+00 703+00 704+00 705+00 706+00

FE
CABC

PE
ASPH

SEPV

N

(213)

5

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 128	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 24

PLOT DATE : 11/17/2020 11:26 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

706+00 707+00 708+00 709+00 710+00 711+00 N2° 03' 38.44"W 712+00

3635.199

5

N

(214)

STA. 714+50
RIP RAP
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

FE CABC

FE CABC

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

N2° 03' 38.44"W 712+00 713+00 714+00 715+00 716+00 717+00

3635.199

PE ASPH

N

W

N205

(215)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 129	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 25

PLOT DATE : 11/17/2020 11:28 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

ML -

N

FE
CABC

717+00 718+00 719+00 720+00 721+00 722+00

PE
ASPH

PE
CABC

5

5

(216)

STA. 722+78
1 - GEOTEXTILE FABRIC HR (12 SY) REQ'D
1 - PLACE RIP RAP, (LT.) (11' x 10') REQ'D
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

N

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

104
805.611
CP 3/4-INCH X 2 FT CAPPED REBAR

722+00 723+00 724+00 725+00 726+00 727+00 728

STA. 722+78
1 - GEOTEXTILE FABRIC HR (21 SY) REQ'D
1 - PLACE RIP RAP, (RT.) (19' x 10') REQ'D

(217)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 130	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 26

PLOT DATE : 11/17/2020 11:29 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

X 2 FT CAPPED REBAR

PC: 729+32.86

PI STA = 733+02.09
DELTA = 23°33'03"
D = 3°14'05"
T = 369.23'
L = 728.04'
R = 1771.20'
PC STA = 729+32.86
PT STA = 736+60.90

ML -

+00
728+00
729+00
730+00
731+00
732+00
733+00

5

N

(218)

D = 3°14'05"
T = 369.23'

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

PT: 736+60.90

FE CABC

733+00
734+00
735+00
736+00
737+00
738+00

I SIGN

FE CABC

N

(219)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 131 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 27

PLOT DATE : 11/17/2020 11:31 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

STA. 739+62 - 741+14.60, LT
REMOVE EXISTING GUARDRAIL

STA. 739+54 - 741+19, LT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

STA. 741+45.53 - 742+82 , LT
REMOVE EXISTING GUARDRAIL

STA. 741+50 - 742+91, LT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

WETLAND

PC: 741+86.79

738+00 739+00 740+00 741+00 742+00 743+00

N25° 36' 41.72"W
525.895

B-61-113

492.540

WETLAND

STA. 738+64 - 741+14.60 , RT
REMOVE EXISTING GUARDRAIL

STA. 738+56 - 741+09, RT.
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

STA. 741+46 - 742+50 , RT
REMOVE EXISTING GUARDRAIL

STA. 741+40 - 742+56, RT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

GERMAN CREEK LN

ML -

5

5

LEGEND

EXISTING RIGHT - OF - WAY

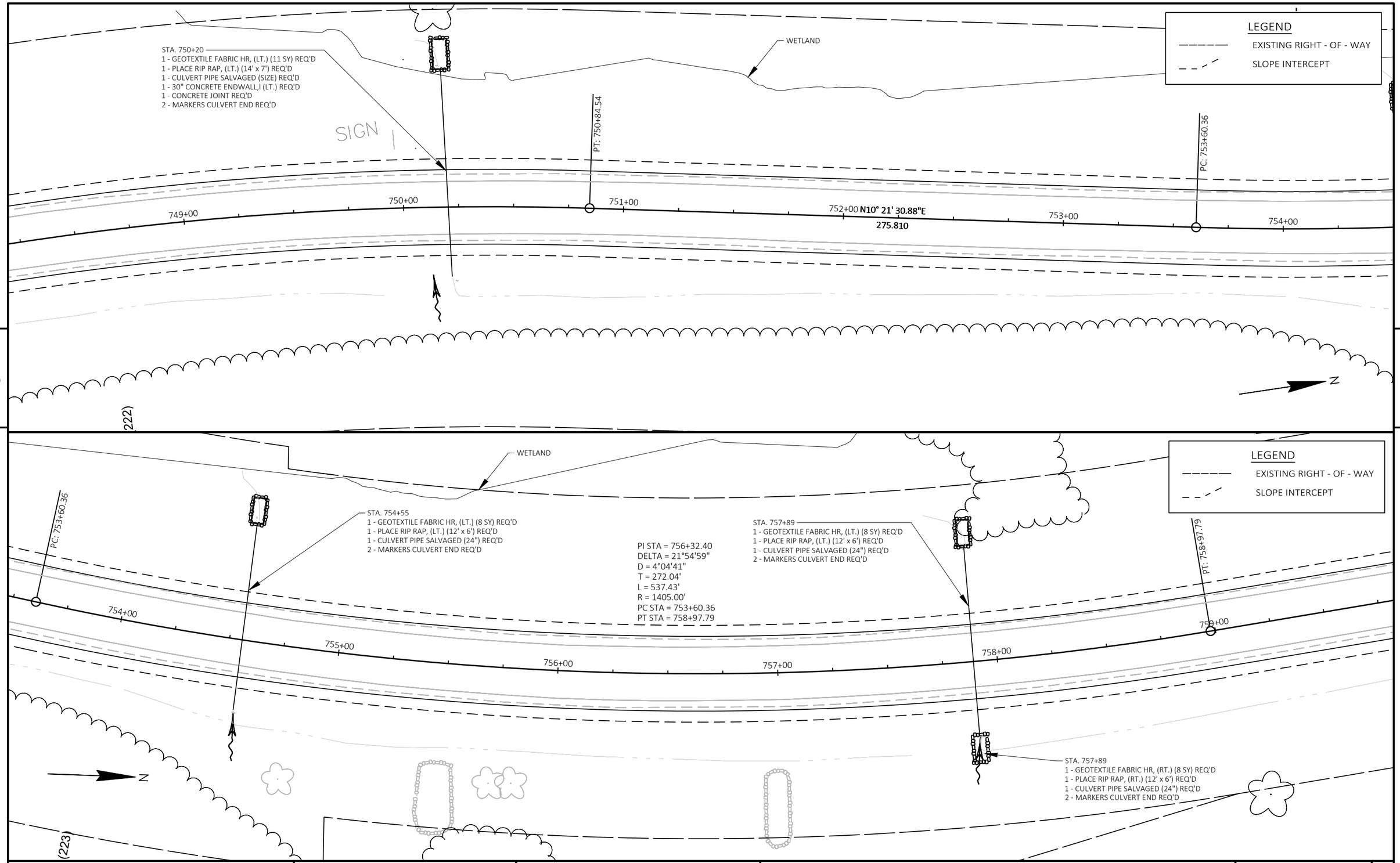
SLOPE INTERCEPT

PI STA = 746+51.02
DELTA = 35°58'13"
D = 4°00'24"
T = 464.22'
L = 897.75'
R = 1430.00'
PC STA = 741+86.79
PT STA = 750+84.54

743+00 744+00 745+00 746+00 747+00 748+00 749+00

GERMAN

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 132	E



PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 133 E

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

PT : 758+97.79

STA. 763+67
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

ML -

PE ASPH

FE CABC

758+00 760+00 761+00 762+00 763+00 764+00 765+00

5

N

5

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

V21365

PE ASPH

PE ASPH

ML -

STA. 768+65
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

FE CABC

765+00 766+00 767+00 768+00 769+00 770+00

N

W

(225)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 134	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 30

PLOT DATE : 11/17/2020 11:36 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

STA. 771+28
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

ML -

N

105
810.316
CP

770+00 771+00 772+00 773+00 774+00 775+00

N11° 33' 28.13"W
3088.272

FE
CABC

5

5

(226)

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

WETLAND

STA. 777+51
1 - CULVERT PIPE SALVAGED (24") REQ'D
2 - MARKERS CULVERT END REQ'D

N

105
810.316
CP 3/4-INCH X 2 FT CAPPED REBAR

775+00 776+00 777+00 778+00 779+00 780+00 781

(227)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 135	E

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

STA. 781+95
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

ML -

N

+00 781+00 782+00 783+00 784+00 785+00 786+00

WETLAND

5

5

(228)

STA. 787+10
1 - CULVERT PIPE SALVAGED (24") REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

PC: 789+86.06

786+00 787+00 788+00 789+00 790+00 791+00

WETLAND

(229)

SEPV

SEPV SEPC

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 136	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 32

PLOT DATE : 11/17/2020 11:39 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

WETLAND

WETLAND

STA. 795+75 - 798+41 , LT
REMOVE EXISTING GUARDRAIL

STA. 795+69 - 798+22, LT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

ML -

791+00

792+00

793+00

794+00

795+00

796+00

5

5

BENRUD RD

(230)

WETLAND

N

STA. 795+75 - 798+41, LT
REMOVE EXISTING GUARDRAIL

STA. 795+69 - 798+22, LT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

PI STA = 796+74.15
DELTA = 26°49'47"
D = 1°59'10"
T = 688.09'
L = 1350.95'
R = 2885.00'
PC STA = 789+86.06
PT STA = 803+37.01

WETLAND

796+00

797+00

798+00

799+00

800+00

801+00

802+00

B-61-109

T SIGN

STA. 796+92 - 798+41 , RT
REMOVE EXISTING GUARDRAIL

STA. 796+82 - 798+35, RT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

WETLAND

(231)

STA. 799+01 - 801+63 , LT
REMOVE EXISTING GUARDRAIL

STA. 799+04 - 801+69, LT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

STA. 799+01 - 800+66, RT
REMOVE EXISTING GUARDRAIL

STA. 799+23 - 800+76, RT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

WETLAND

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 137	E

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

WETLAND

STA. 799+01 - 801+63, LT
REMOVE EXISTING GUARDRAIL

STA. 799+04 - 801+69, LT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

PT: 803+37.01

STA. 806+46
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

802+00 803+00 804+00 805+00 806+00 807+00

N38° 23' 14.89"W
561.842

N

WETLAND

HOLCOMB COULEE R

WETLAND

CE ASPH

SIGN

5

5

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

PC: 808+98.85

STA. 811+52
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

SIGN

FE CABC

807+00 808+00 809+00 810+00 811+00 812+00

PE ASPH

CE ASPH

WETLAND

N22°02'

SIGN

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 138	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 34

PLOT DATE : 11/17/2020 11:42 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

PI STA = 813+16.09
DELTA = 39°56'52"
D = 4°59'27"
T = 417.24'
L = 800.41'
R = 1148.00'
PC STA = 808+98.85
PT STA = 816+99.26

WETLAND

STA. 814+53
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

ML -

N

PT: 816+99.26

812+00 813+00 814+00 815+00 816+00 817+00 818+00

FE CABC

PE ASPH

WETLAND

WETLAND

5

5

WETLAND

STA. 818+98
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

STA. 822+00
1 - 18" CPRC CLASS III (58') REQ'D
1 - APRON ENWALL REQ'D
1 - MARKERS CULVERT END REQ'D

ML -

WETLAND

N

FE CABC

818+00 819+00 820+00 821+00 N1° 33' 36.88"E 822+00 823+00

974.773

WETLAND

WETLAND

STA. 822+00
1 - INLETS 2 x 3 - FT - REQ'D
1 - INLET COVERS TYPE HM-GJ - REQ'D

(235)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 139	E

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

WETLAND

STA. 826+40
REMOVE 30" CMCP REQ'D
1 - 30" CPRC CLASS III (69') - REQ'D
2 - APRON ENWALLS REQ'D
2 - MARKERS CULVERT END REQ'D

PC: 826+74.03

823+00 824+00 825+00 826+00 827+00 828+00

ML -

FE CABC

FE CABC

WETLAND

STA. 826+44
REMOVE 30" CMCP REQ'D
1 - 30" CPRC CLASS III (69') - REQ'D
2 - APRON ENWALLS REQ'D
2 - MARKERS CULVERT END REQ'D

N

5

5

(236)

ML

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

WETLAND

STA. 830+41
REMOVE 24" CMCP REQ'D
1 - 30" CP CLASS III-B NON-METAL (68') - REQ'D
2 - APRON ENWALLS REQ'D
2 - MARKERS CULVERT END REQ'D

PT: 833+70.52

828+00 829+00 830+00 831+00 832+00 833+00 834

PI STA = 830+23.53
DELTA = 11°54'44"
D = 1°42'37"
T = 349.50'
L = 696.49'
R = 3350.00'
PC STA = 826+74.03
PT STA = 833+70.52

N

(237)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 140	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 36

PLOT DATE : 11/17/2020 11:46 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

WETLAND

PT: 833+70.52

STA. 836+39
1 - CLEANING CULVERT PIPE REQ'D
2 - MARKERS CULVERT END REQ'D

WETLAND

ML -

+00 834+00 835+00 836+00 837+00 838+00 839+00

5

5

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

WETLAND

STA. 840+45 - 842+39, LT
REMOVE EXISTING GUARDRAIL

STA. 840+37 - 842+15, LT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

ML -

STA. 843+39 - 845+93, LT
REMOVE EXISTING GUARDRAIL

STA. 843+37 - 846+03, LT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

839+00 840+00 841+00 842+00 843+00 844+00

B-61-110

ASPH

STA. 841+33 - 842+39, RT
REMOVE EXISTING GUARDRAIL

STA. 841+24 - 842+40, RT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

STA. 843+39 - 845+68, RT
REMOVE EXISTING GUARDRAIL

STA. 843+62 - 845+78, RT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

WETLAND

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 141	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 37

PLOT DATE : 11/17/2020 11:47 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

STA. 842+39 - 845+93, LT
REMOVE EXISTING GUARDRAIL

STA. 842+37 - 846+03, LT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

106
802.447
CP 3/4-INCH X 2 FT CAPPED REBAR

ML -

WETLAND

N

844+00 845+00 846+00 847+00 848+00 849+00

N10° 21' 06.99"W
2918.689

STA. 843+39 - 845+68, RT
REMOVE EXISTING GUARDRAIL

STA. 843+62 - 845+78, RT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

FE
CABC

TAMARACK CR

WETLAND

5

5

(240)

106
802.447
T CAPPED REBAR

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

ML -

N

WETLAND

849+00 850+00 851+00 852+00 853+00 854+00 855+00

WETLAND

(241)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 142	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 38

PLOT DATE : 11/17/2020 11:49 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

WETLAND

CTH F

STA. 857+10
REMOVE 36" CMCP REQ'D
1 - 36" CP CLASS III-B NON-METAL (93') - REQ'D
2 - APRON ENWALLS REQ'D
2 - MARKERS CULVERT END REQ'D

ML -

WETLAND

855+00 856+00 857+00 858+00 859+00 860+00

WETLAND

SIGN

N

5

5

(242)

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

WETLAND

STA. 863+76 - 866+29, LT
REMOVE EXISTING GUARDRAIL

STA. 863+82 - 866+83, LT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

ML -

PC: 862+89.21

860+00 861+00 862+00 863+00 864+00 865+00

SIGN

SIGN

WETLAND

OH

OH

N

STA. 864+28 - 866+10, RT
REMOVE EXISTING GUARDRAIL

STA. 864+28 - 865+81, RT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

(243)

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 143	E

STA. 863+76 - 866+29, LT
REMOVE EXISTING GUARDRAIL

STA. 863+82 - 866+83, LT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

WETLAND

PI STA = 866+10.88
DELTA = 19°02'01"
D = 2°59'10"
T = 321.67'
L = 637.42'
R = 1918.80'
PC STA = 862+89.21
PT STA = 869+26.63

STA. 866+83 - 870+14, LT
REMOVE EXISTING GUARDRAIL

STA. 866+83 - 870+22, LT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

WETLAND

PT: 869+26.63

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

865+00 866+00 867+00 868+00 869+00 870+00 871+00

B-61-111

STA. 864+28 - 866+10 , RT
REMOVE EXISTING GUARDRAIL

STA. 864+28 - 865+81, RT
MGS GUARDRAIL 3 REQ'D
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL TERMINAL EAT REQ'D

STA. 866+51 - 866+91, RT
REMOVE EXISTING GUARDRAIL

STA. 866+70 - 866+97, RT
1 - MGS THRIE BEAM TRANSITION REQ'D
1 - MGS GUARDRAIL SHORT RADIUS TERMINAL REQ'D

WETLAND

STA. 870+20
1 - ASPHALTIC FLUME REQ'D
1 - GEOTEXTILE FABRIC HR, (RT.), (9 SY) REQ'D
1 - PLACE RIPRAP, (RT.) (12' x 6') REQ"D

NORWAY VALLEY

(244)

5

5

STA. 870+50
1 - 18" CPRC CLASS III (56') - REQ'D
1 - APRON ENWALLS REQ'D
1 - GEOTEXTILE FABRIC HR, (LT.), (9 SY) REQ'D
1 - PLACE RIPRAP, (LT.) (12' x 6') REQ"D
2 - MARKERS CULVERT END REQ'D

STA. 873+80
REMOVE 24" LENGTH RCCP REQ'D
1 - 24" CPRC CLASS III (56') - REQ'D
1 - APRON ENWALLS REQ'D
1 - GEOTEXTILE FABRIC HR, (LT.), (9 SY) REQ'D
1 - PLACE RIPRAP, (LT.) (12' x 6') REQ"D
2 - MARKERS CULVERT END REQ'D

LEGEND
EXISTING RIGHT - OF - WAY
SLOPE INTERCEPT

PC: 876+00.83

SIGN

SIGN

871+00 872+00 873+00 874+00 875+00 876+00

N29° 23' 07.59"W
674.208

STA. 870+50
1 - INLETS 2 x 3 - FT - REQ'D
1 - INLET COVERS TYPE HM-GJ - REQ'D

STA. 870+50
1 - INLETS MEDIAN 1 GRATE REQ'D

STA. 870+20
1 - ASPHALTIC FLUME REQ'D
1 - GEOTEXTILE FABRIC HR, (RT.), (9 SY) REQ'D
1 - PLACE RIPRAP, (RT.) (12' x 6') REQ'D

STA. 873+80
1 - INLETS MEDIAN 2 GRATE - REQ'D

STA. 873+80
1 - INLETS 2 x 3 - FT - REQ'D
1 - INLET COVERS TYPE HM-GJ - REQ'D

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 144	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 40

PLOT DATE : 11/17/2020 11:52 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

STA. 876+75
1 - 18" CPRC CLASS III (74') - REQ'D
1 - APRON ENWALL REQ'D
1 - GEOTEXTILE FABRIC HR, (LT.), (9 SY) REQ'D
1 - PLACE RIPRAP, (LT.) (12' x 6') REQ"D
2 - MARKERS CULVERT END REQ'D

STA. 19+24, RT
1 - 24" CPCM (18') REQ'D
2 - APRON ENWALL REQ'D

STA. 879+50
1 - 18" CPRC CLASS III (69') - REQ'D
1 - APRON ENWALLS REQ'D
1 - GEOTEXTILE FABRIC HR, (LT.), (9 SY) REQ'D
1 - PLACE RIPRAP, (LT.) (12' x 6') REQ"D
2 - MARKERS CULVERT END REQ'D

SWENSON LANE

PT: 19+44.59

PC: 19+57.76

PC: 876+00.83

PT: 19+79.69

FP: 20+00.00

875+00 876+00 877+00 878+00 879+00 880+00

END CONSTRUCTION
STA 880+00
BUTT JOINT REQ'D

STA. 876+75
1 - INLETS 2 x 3 - FT - REQ'D
1 - INLET COVERS TYPE HM-GJ - REQ'D

STA. 876+75
1 - INLETS MEDIAN 1 GRATE - REQ'D

STA. 879+50
1 - INLETS MEDIAN 1 GRATE - REQ'D

STA. 879+50
1 - INLETS 2 x 3 - FT - REQ'D
1 - INLET COVERS TYPE HM-GJ - REQ'D

FE CABC

PE CABC

N23°45'50"

PI STA = 878+82.56
DELTA = 11°12'46"
D = 1°59'47"
T = 281.73'
L = 561.65'
R = 2870.00'
PC STA = 876+00.83
PT STA = 881+62.49

(246)

5

5

N

PT: 881+62.49

880+00 881+00

(247)

LEGEND

EXISTING RIGHT - OF - WAY

SLOPE INTERCEPT

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	PLAN	SHEET 145	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\023101-PL.DWG
LAYOUT NAME - 41

PLOT DATE : 11/17/2020 11:54 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

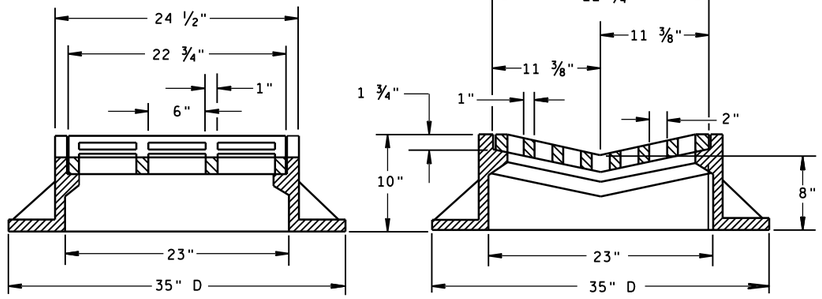
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-21A	CONCRETE CURB & GUTTER
08D01-21B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
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
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C19-02	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	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)
14B53-01A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01I	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C14-03	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-06B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-06C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING

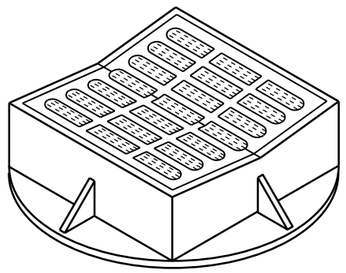
6

Standard Detail Drawing List

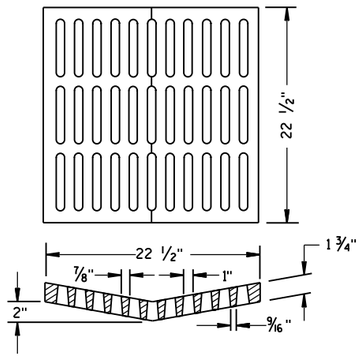
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15C35-04B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-04C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D12-07A	TRAFFIC CONTROL, LANE CLOSURE
15D12-08A	TRAFFIC CONTROL, LANE CLOSURE
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING

6



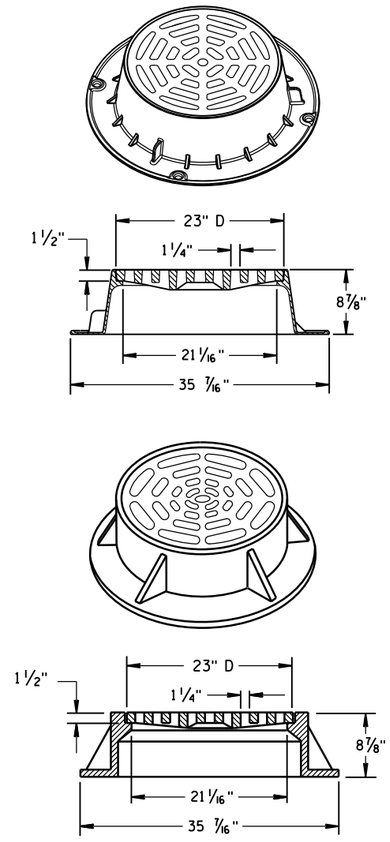


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

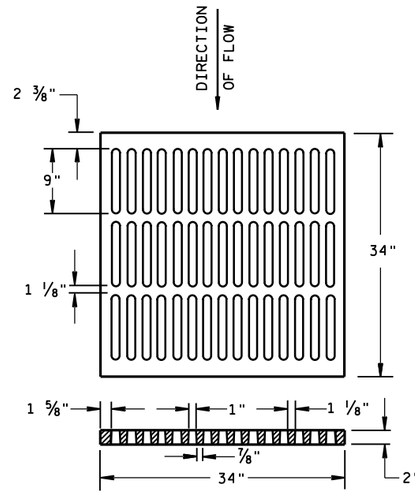
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

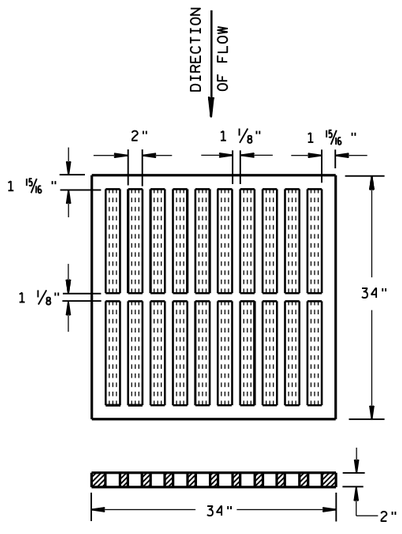
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



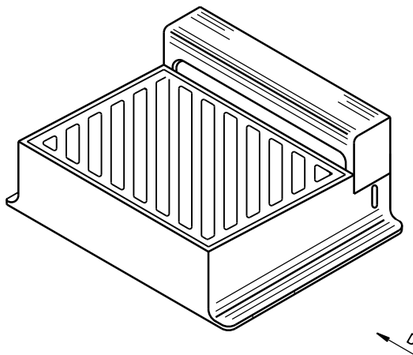
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

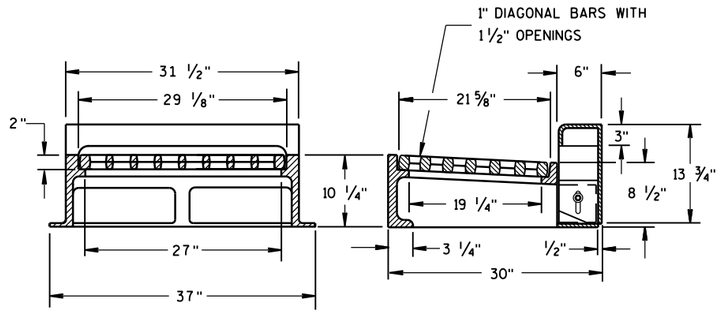


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

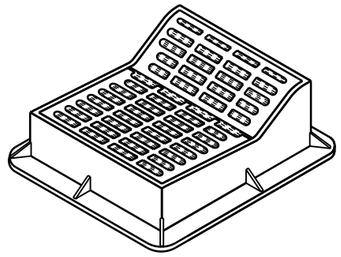
INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM

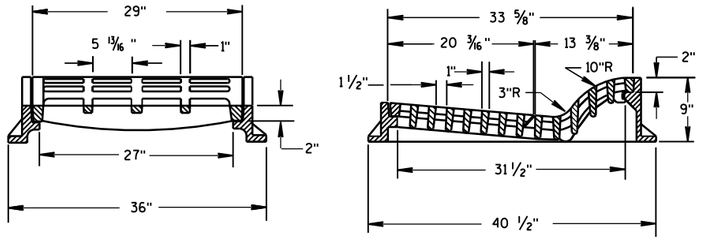
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

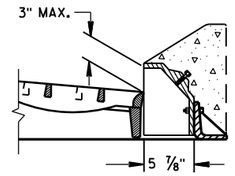
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

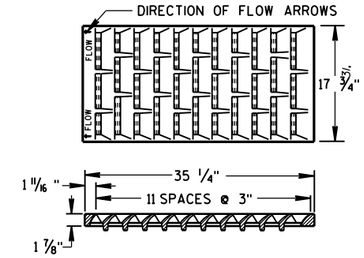
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

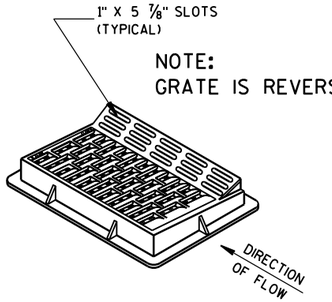
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

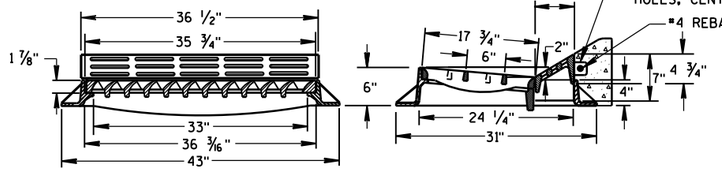
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



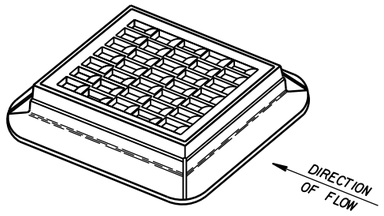


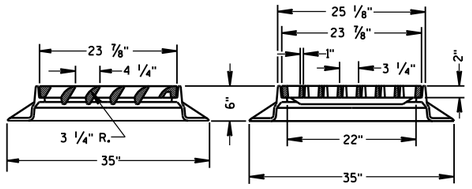


TYPE "HM"

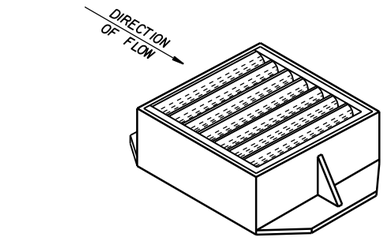
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

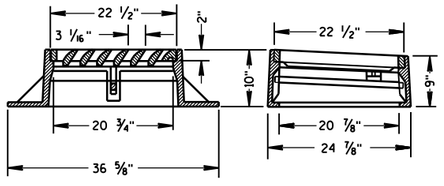
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



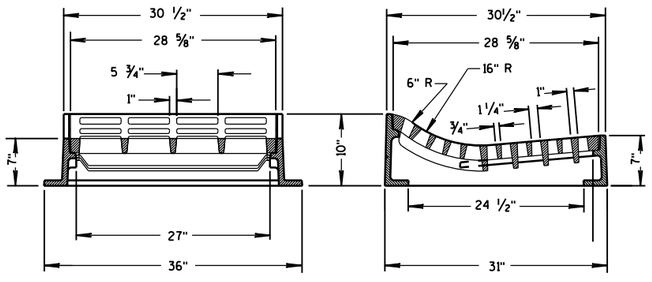


TYPE "S"



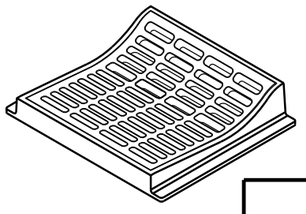


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

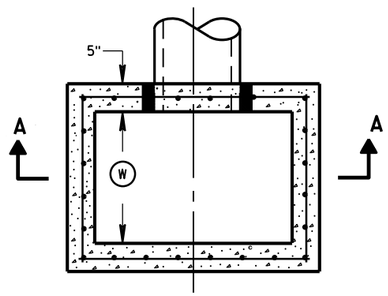
FHWA

6

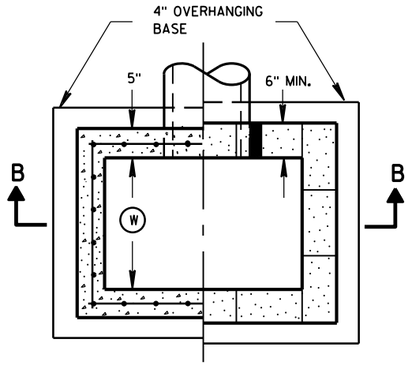
S.D.D. 8 A 5-19c

6

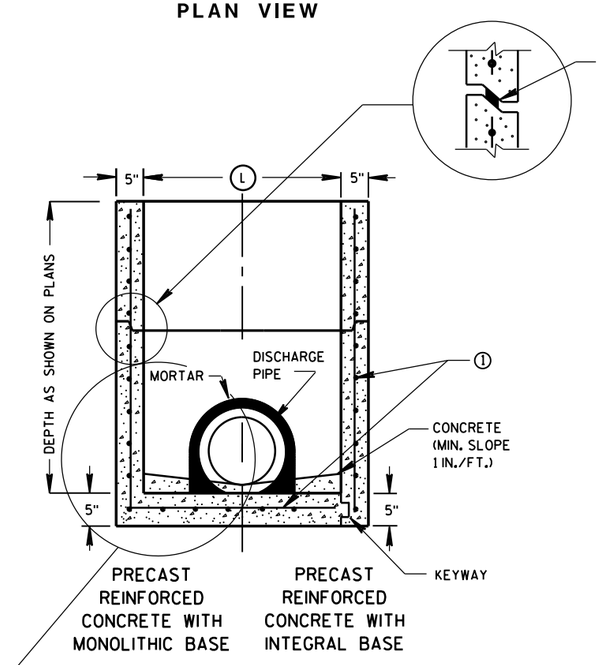
S.D.D. 8 A 5-19c



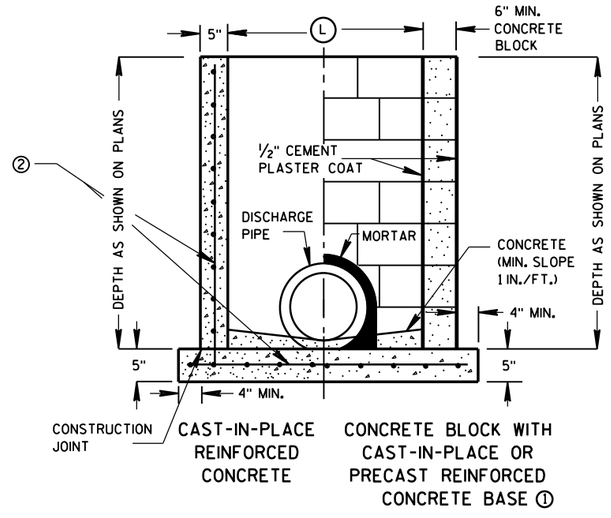
PLAN VIEW



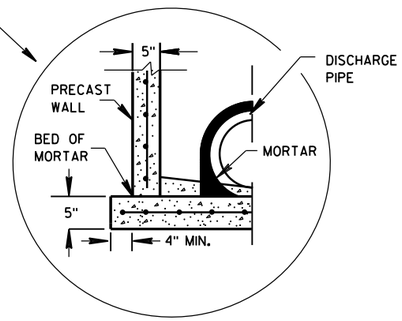
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

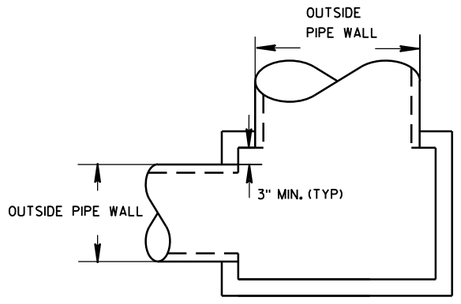
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

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S.D.D. 8 C 7-2

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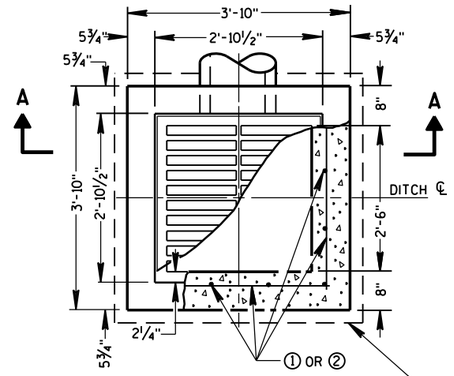
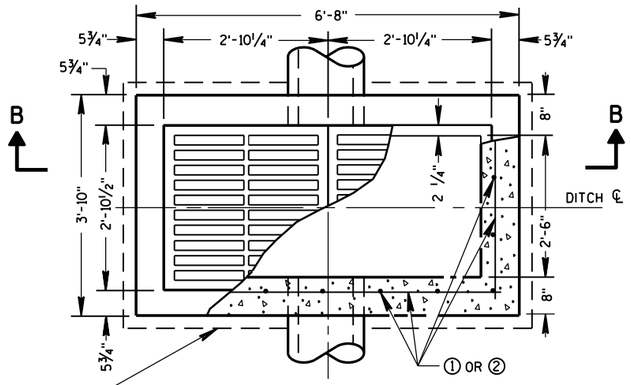
S.D.D. 8 C 7-2

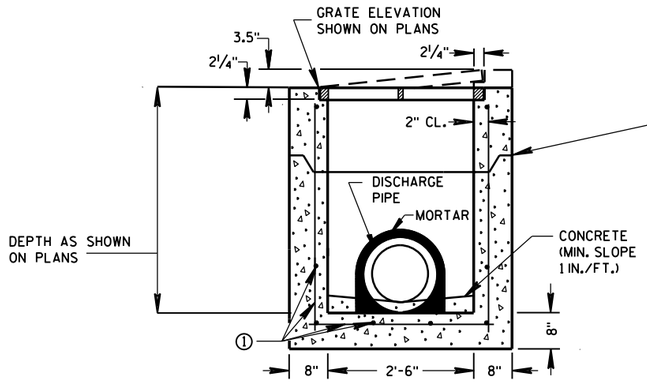


PLAN VIEW

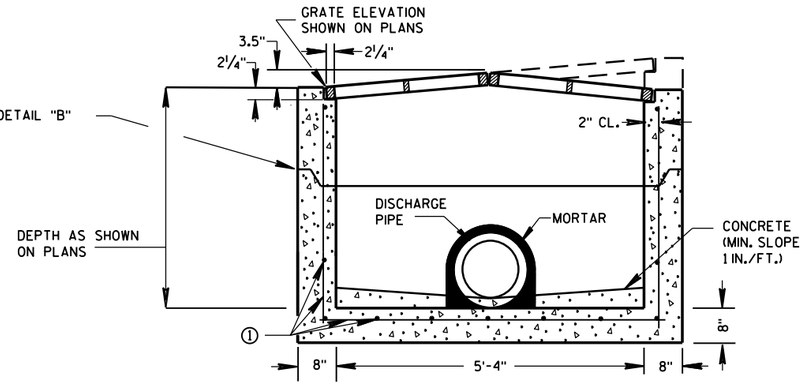


PLAN VIEW

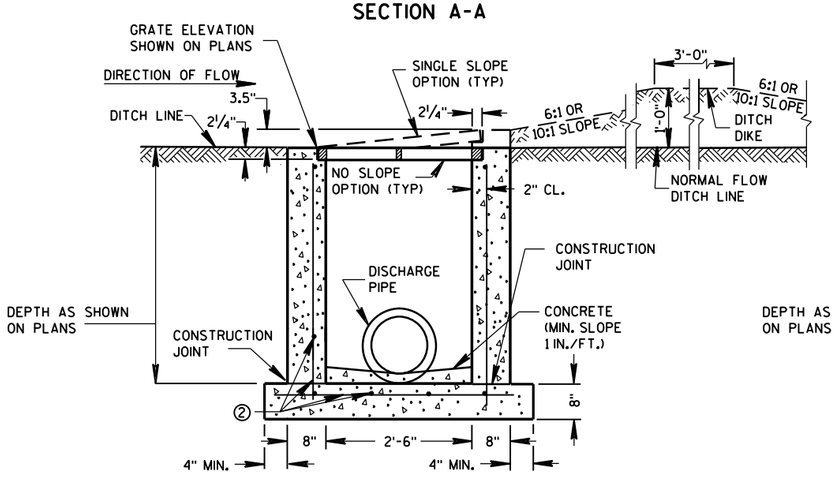
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



PRECAST REINFORCED CONCRETE SECTION A-A

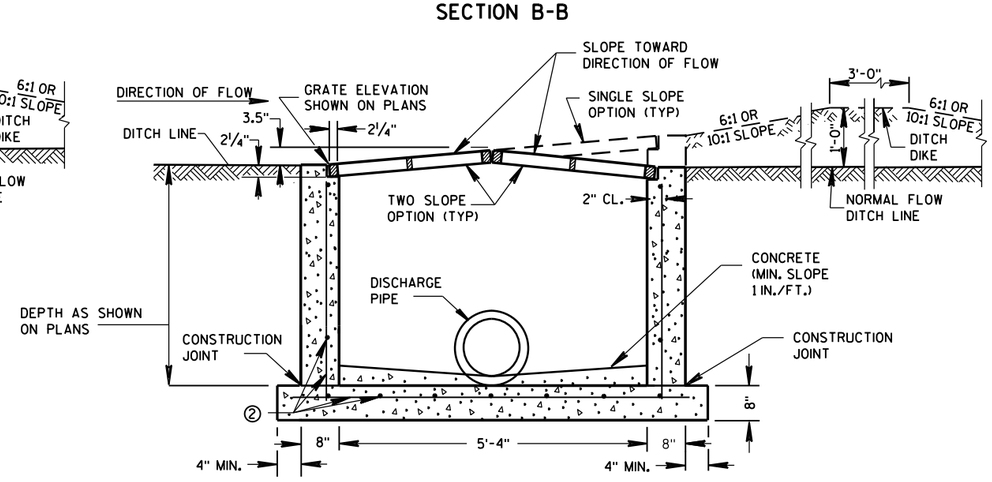


PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A

INLETS MEDIAN 1 GRATE



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

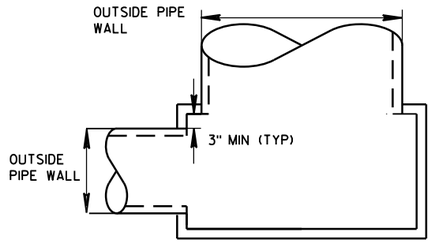
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

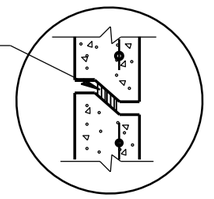
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

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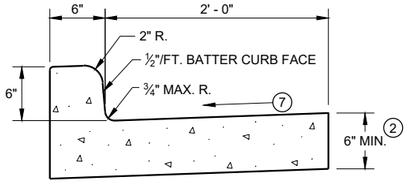
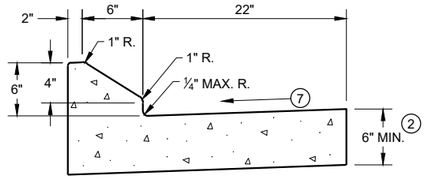
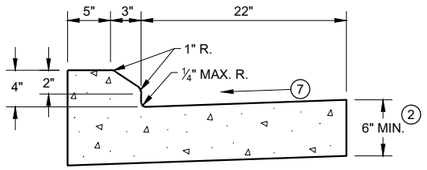
S.D.D. 8 C 8-2



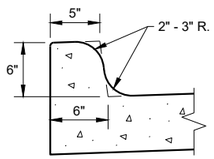
TYPES A[1] & D



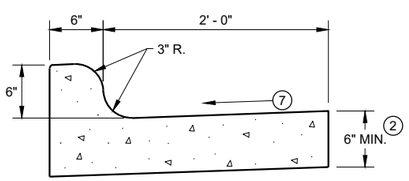
6" SLOPED CURB TYPES G[1] & J



4" SLOPED CURB TYPES G[1] & J

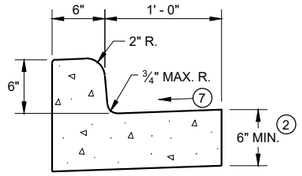


TYPES K[1] & L
(OPTIONAL CURB SHAPE)



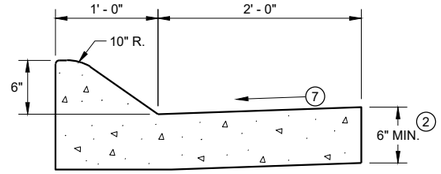
TYPES K[1] & L

CONCRETE CURB AND GUTTER 30"

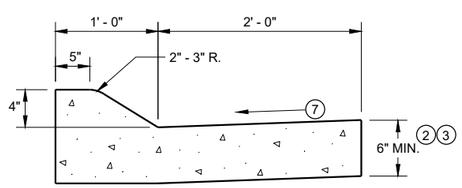


TYPES A[1] & D

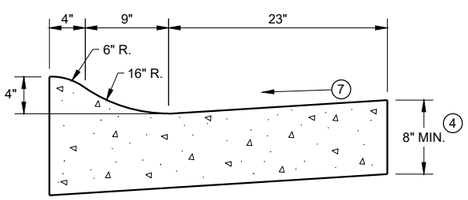
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A[1] & D



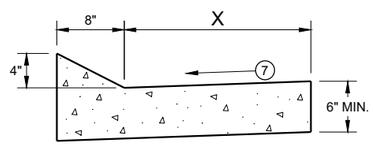
4" SLOPED CURB TYPES A[1] & D



4" SLOPED CURB TYPES R[1] & T[5]

CONCRETE CURB AND GUTTER 36"

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

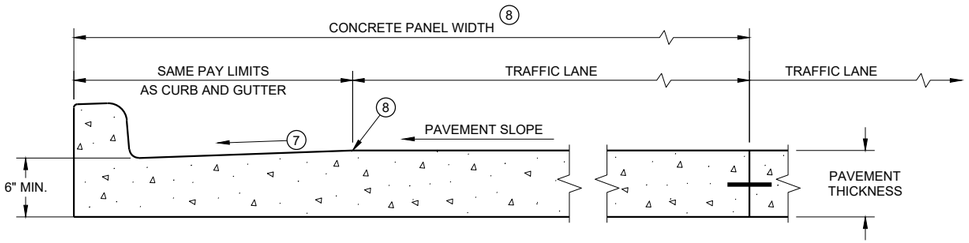


TYPES TBT & TBTT[1]

CONCRETE CURB AND GUTTER

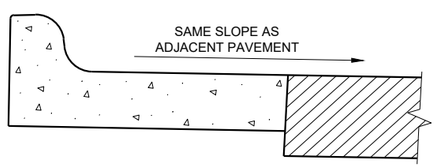
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

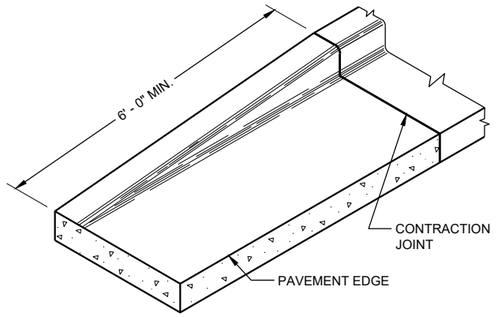
1. TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
3. USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH 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. 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.

CONCRETE CURB AND GUTTER

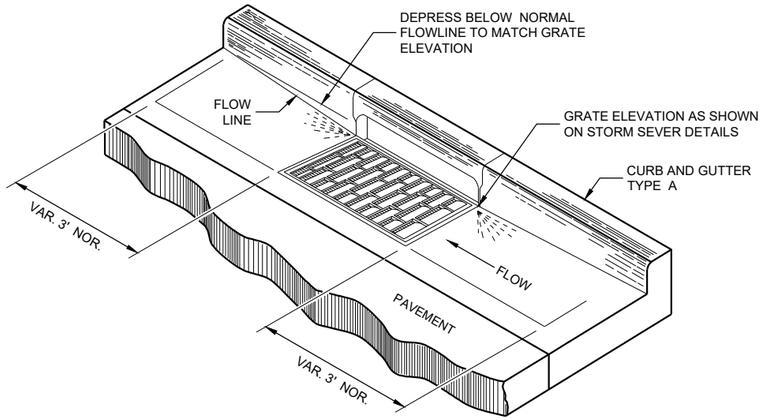
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D01 - 21a

SDD 08D01 - 21a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

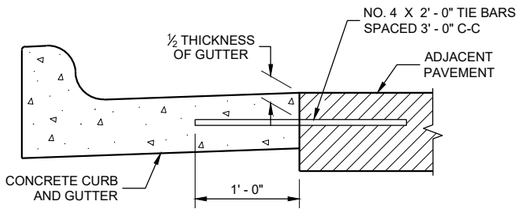
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

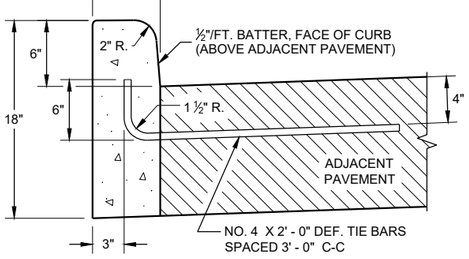
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

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

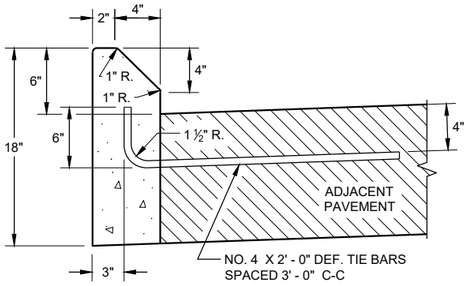
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

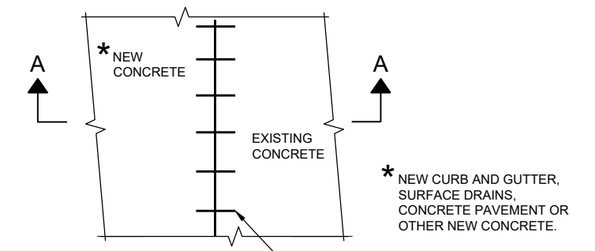


TYPES A (1) & D

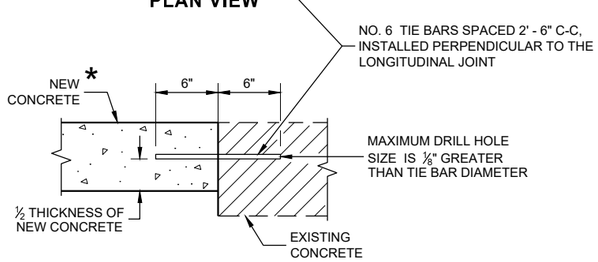


TYPES G (1) & J

CONCRETE CURB

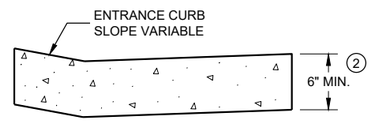


PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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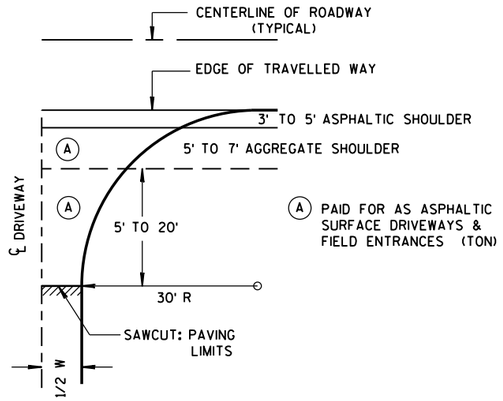
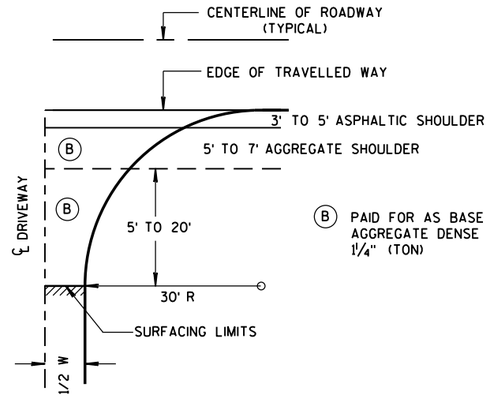
SDD08D01 - 21b

SDD08D01 - 21b



PLAN VIEW
HALF SECTION

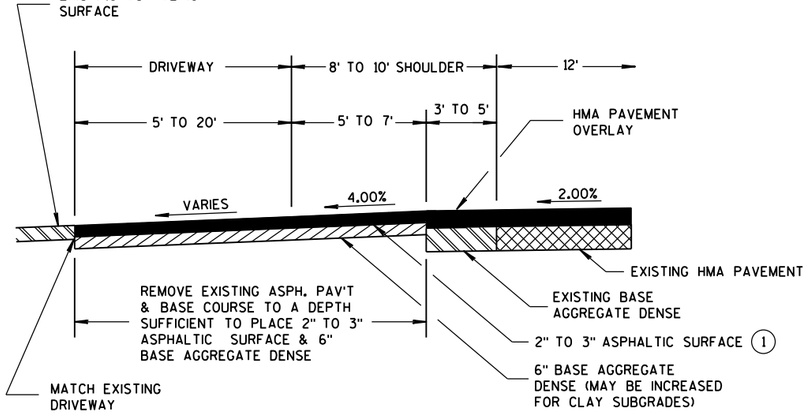
W MIN. = 16'
W MAX. = 24'



PLAN VIEW
HALF SECTION

GENERAL NOTES

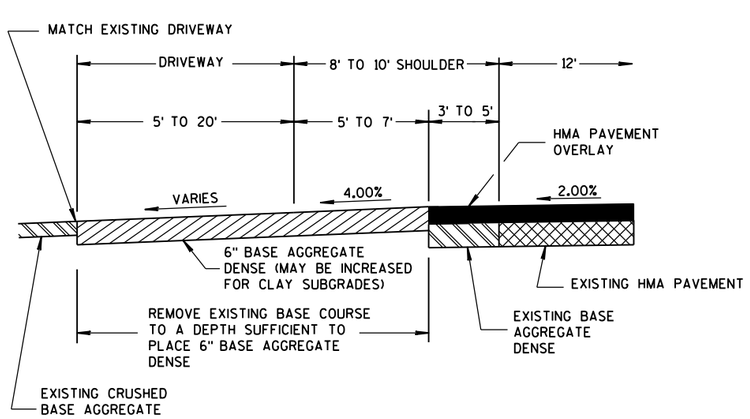
(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV
ENT
FHWA

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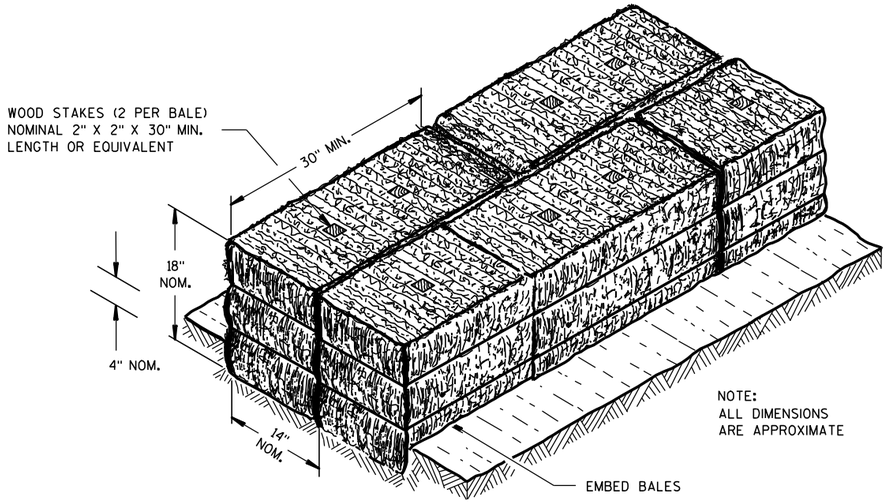
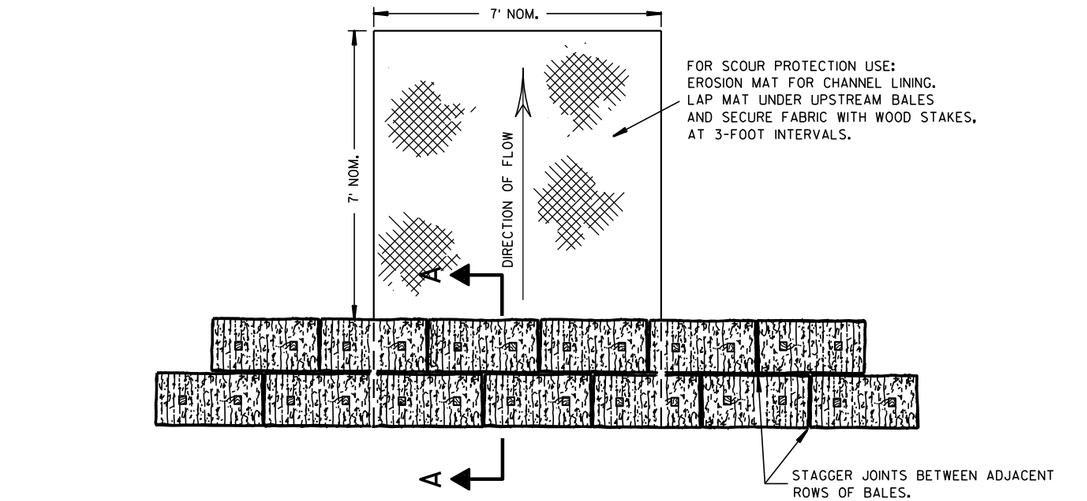
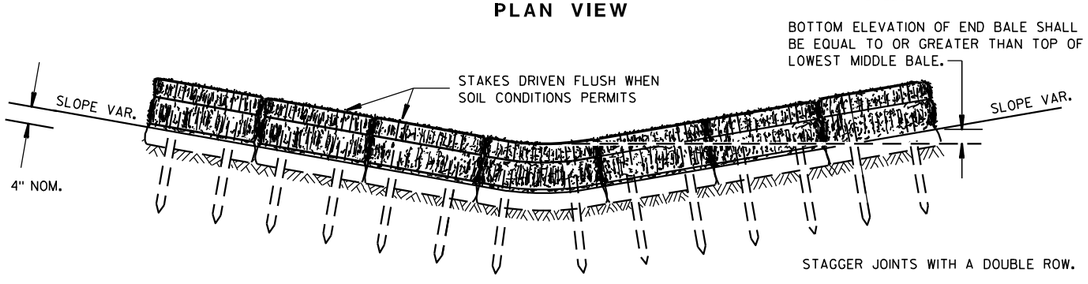


SECTION A-A



PLAN VIEW



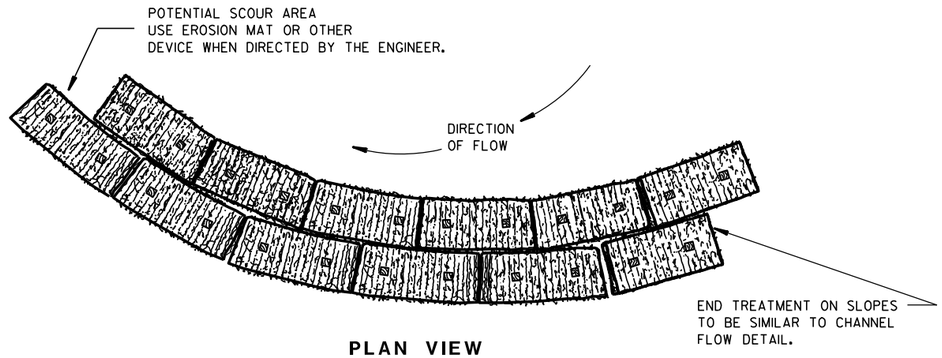
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

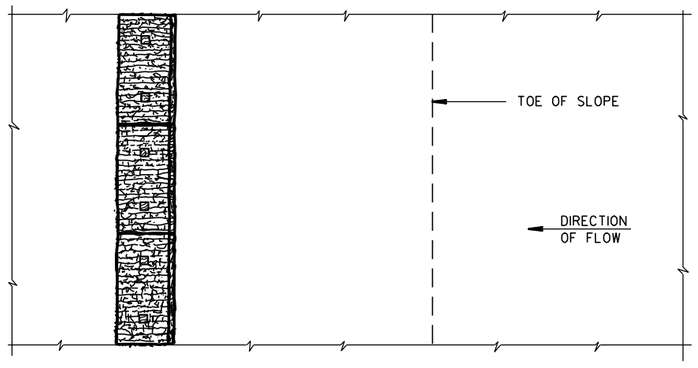
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

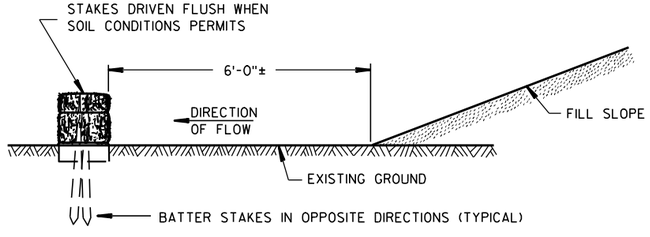


PLAN VIEW

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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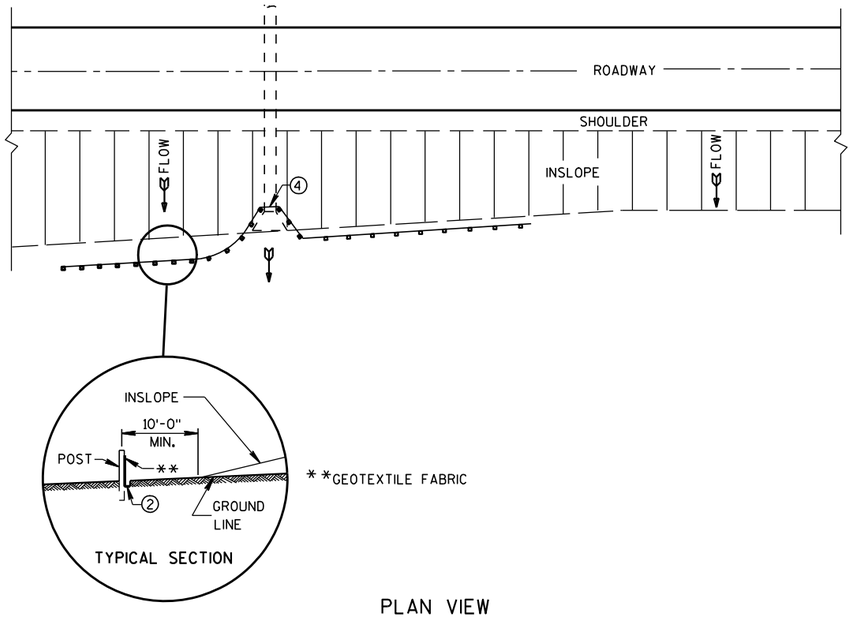
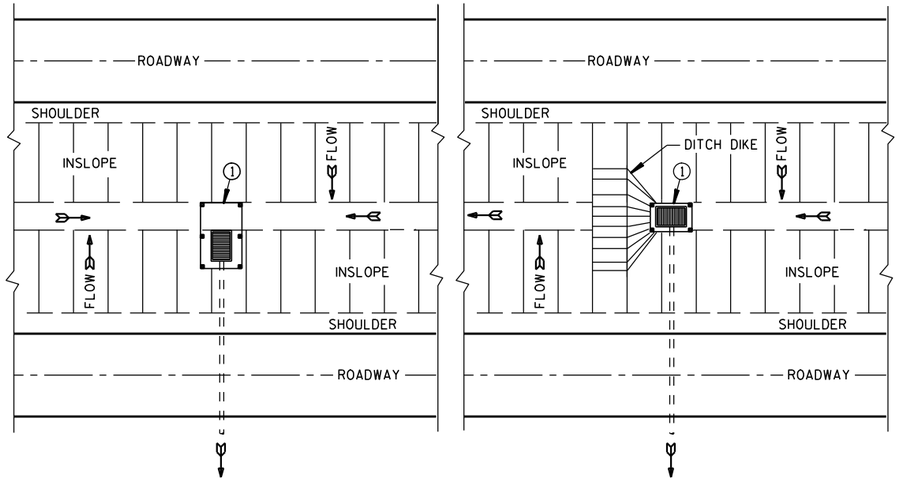
S.D.D. 8 E 8-3



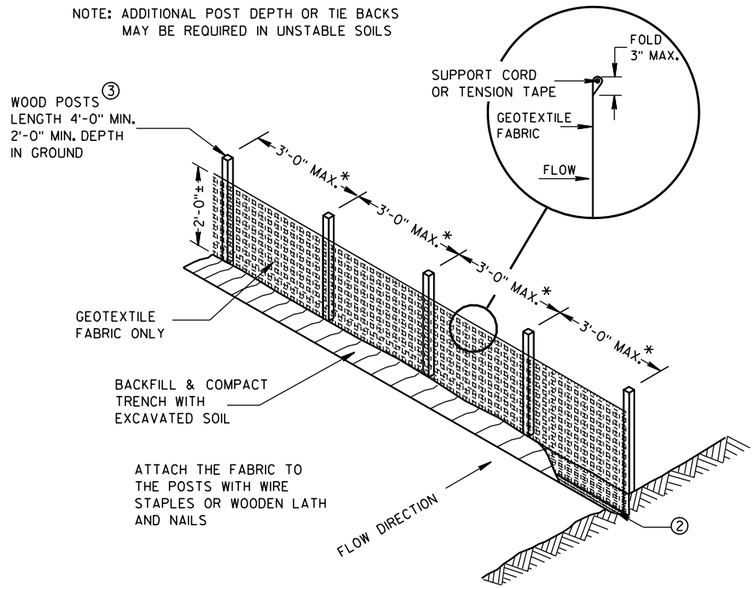
PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE

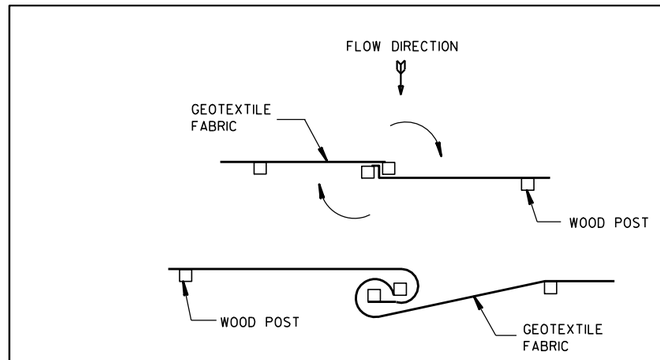


PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS



SILT FENCE

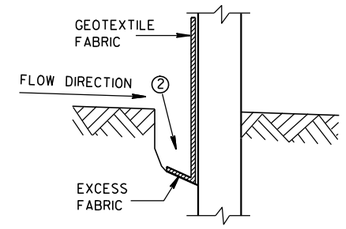


JOINING TWO LENGTHS OF SILT FENCE 5

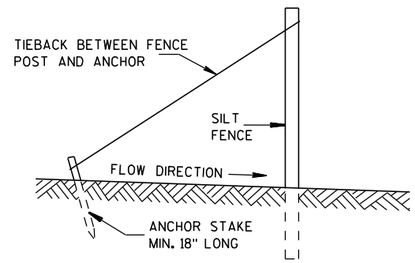
GENERAL NOTES

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 TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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S.D.D. 8 E 9-6

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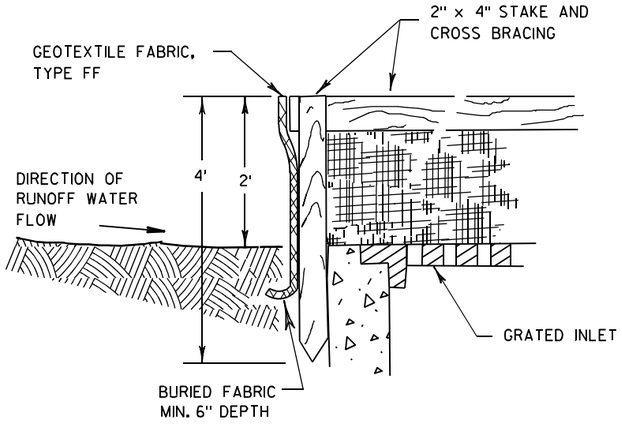
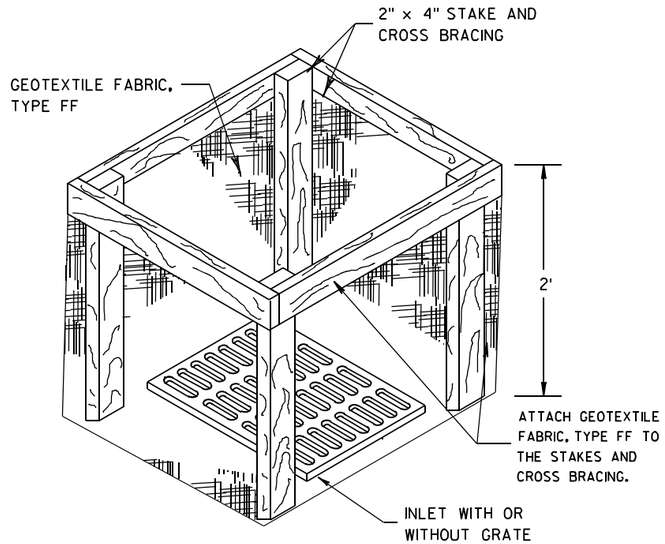
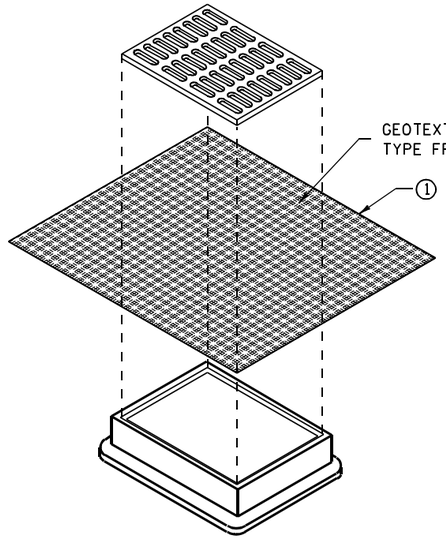
S.D.D. 8 E 9-6



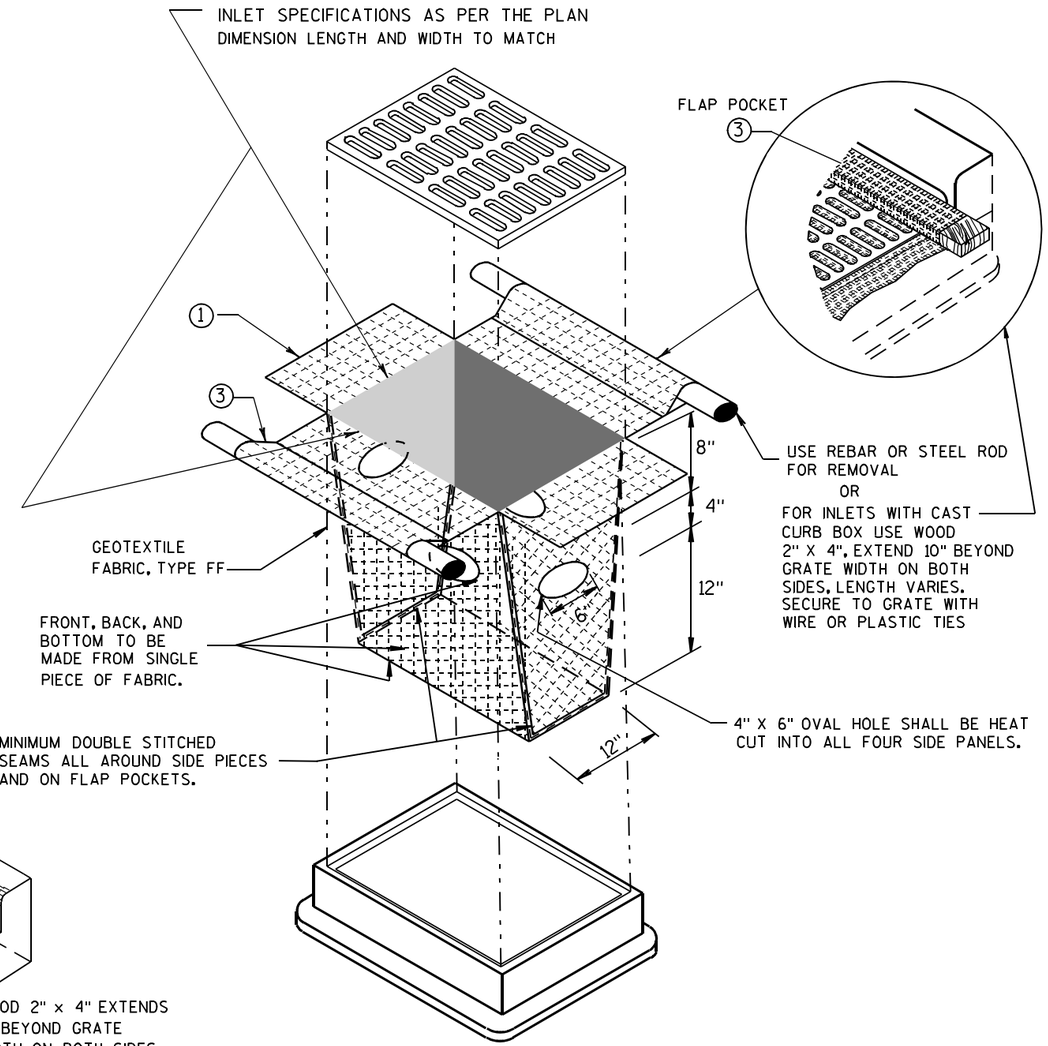


INLET PROTECTION, TYPE A



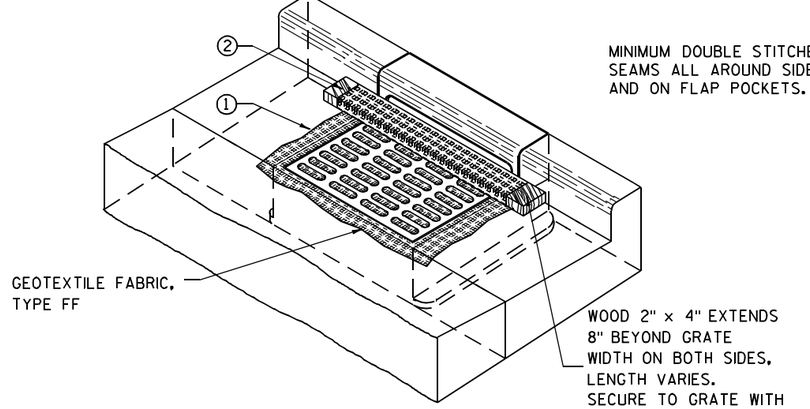
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

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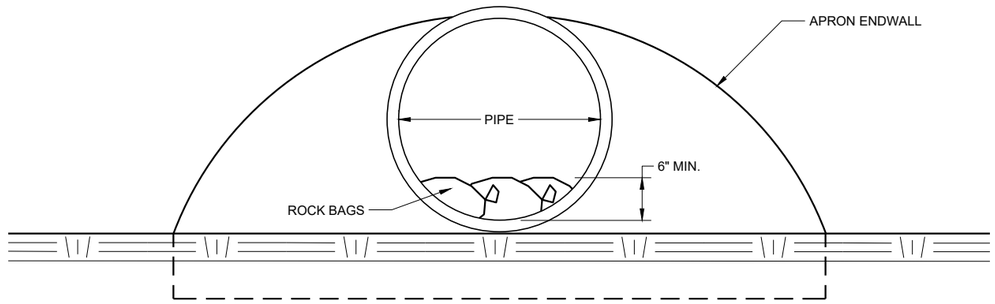
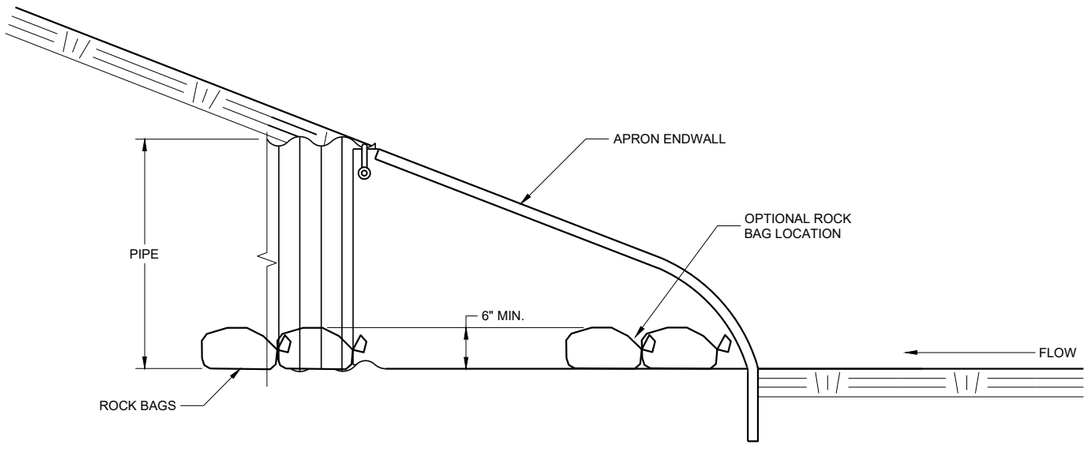
S.D.D. 8 E 10-2



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

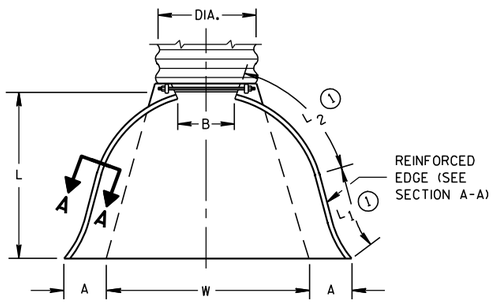
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

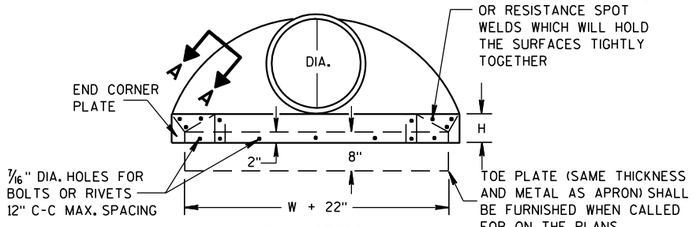
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

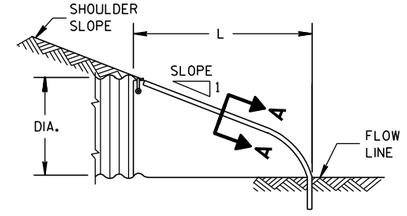
*MINIMUM
**MAXIMUM



PLAN VIEW

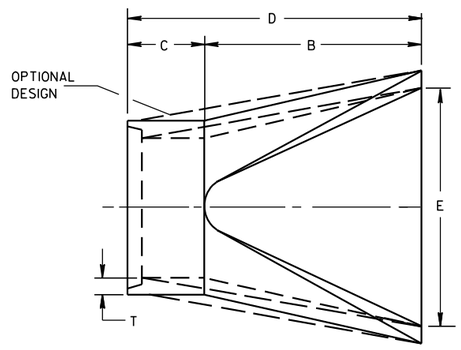


END VIEW

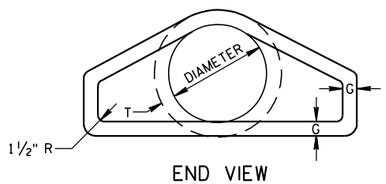


SIDE ELEVATION

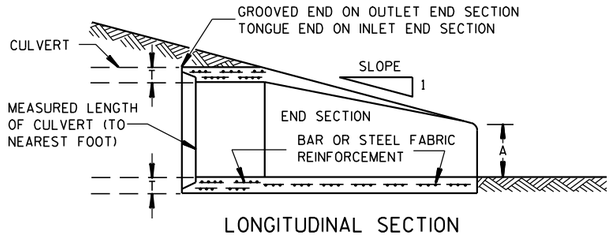
METAL ENDWALLS



PLAN

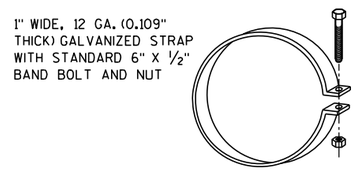


END VIEW



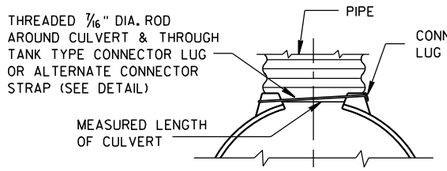
LONGITUDINAL SECTION

CONCRETE ENDWALLS

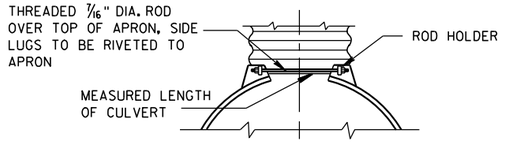


ALTERNATE FOR TYPE 1 CONNECTION

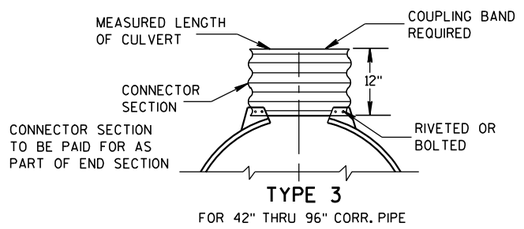
END SECTION CONNECTOR STRAP



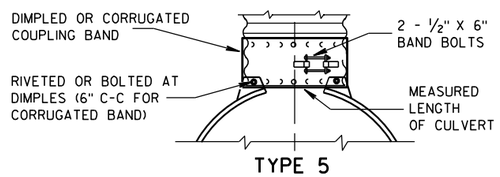
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

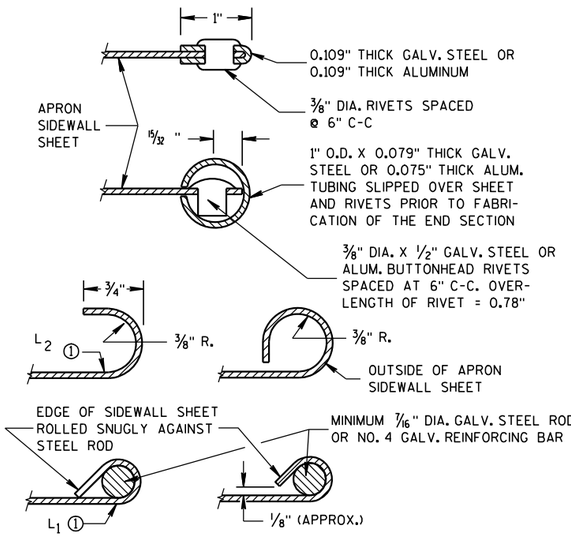
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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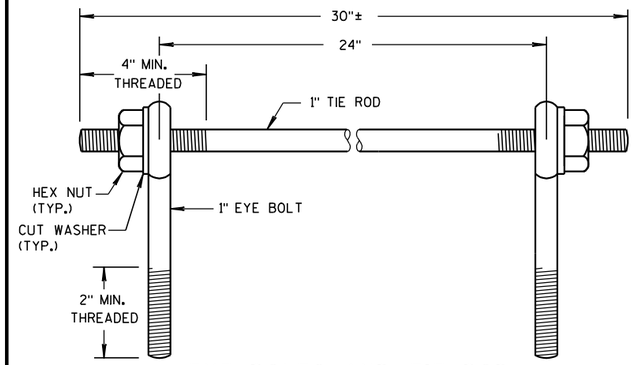
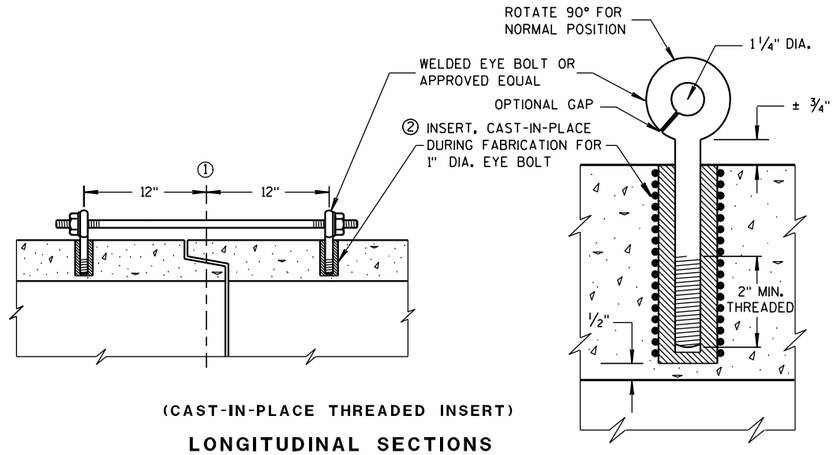
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

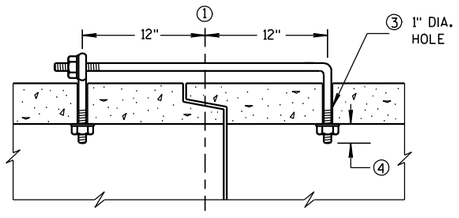
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

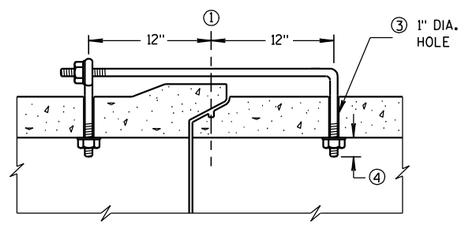
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

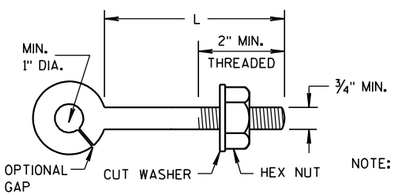


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

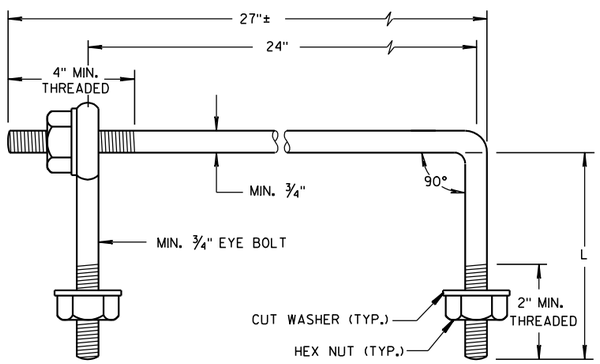
EYE BOLT DIMENSION TABLE

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



EYE BOLT

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



EYE BOLT AND TIE ROD

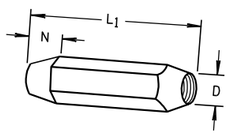
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



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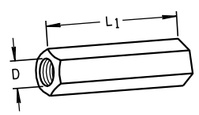
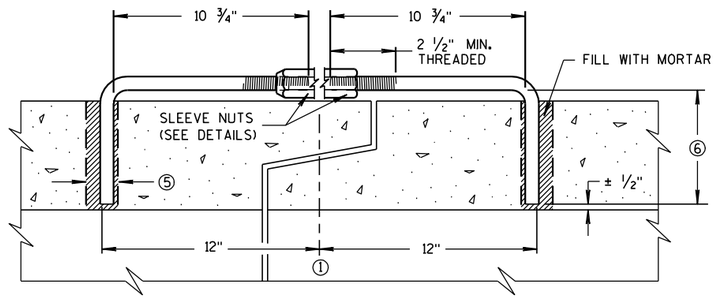


PLAIN

RIGHT AND LEFT THREADS

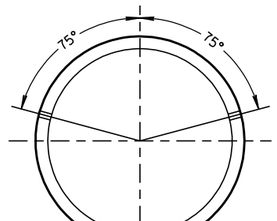
SLEEVE NUTS



LONGITUDINAL SECTION

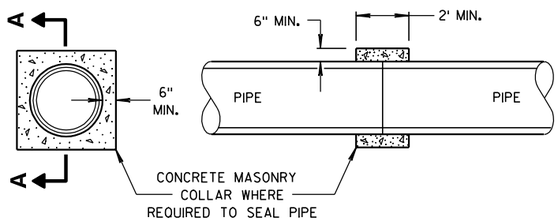
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
160
FHWA

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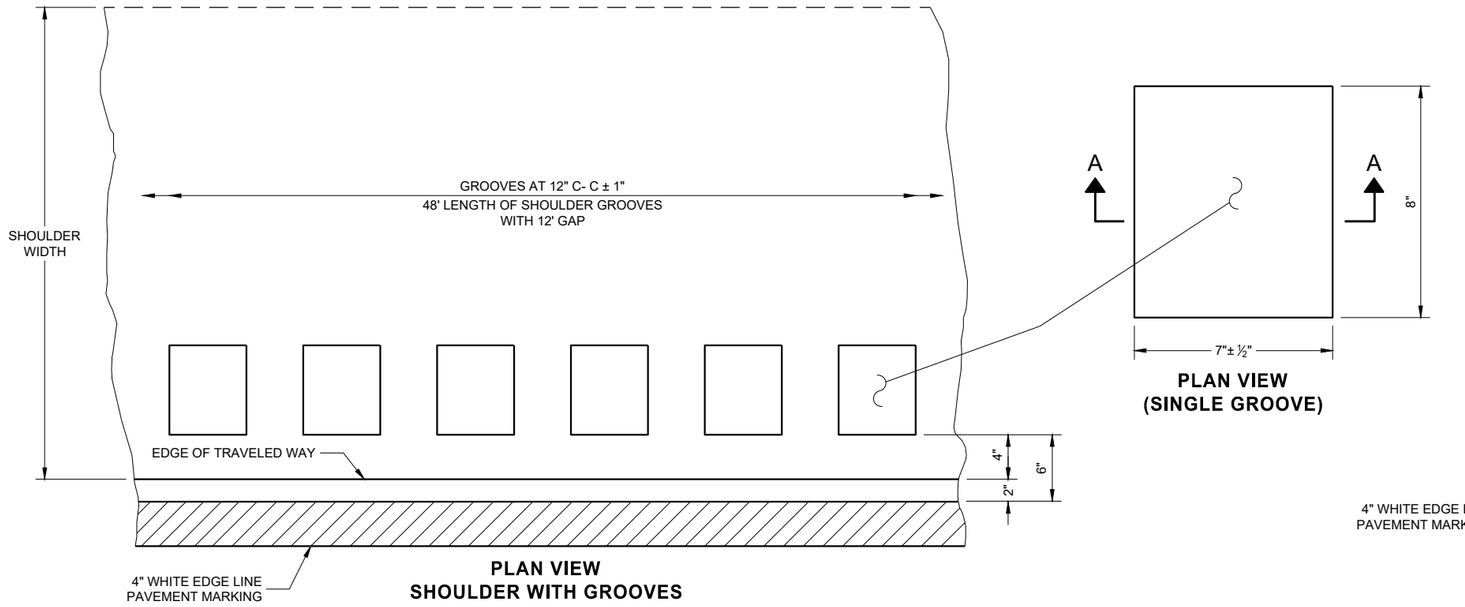


PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

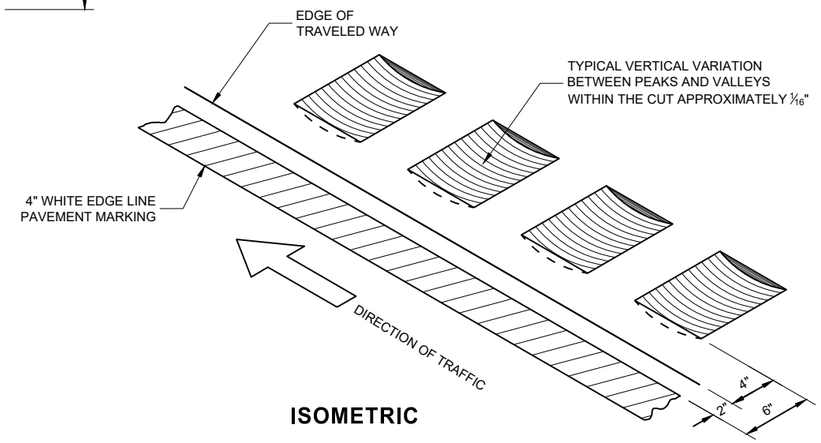
PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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



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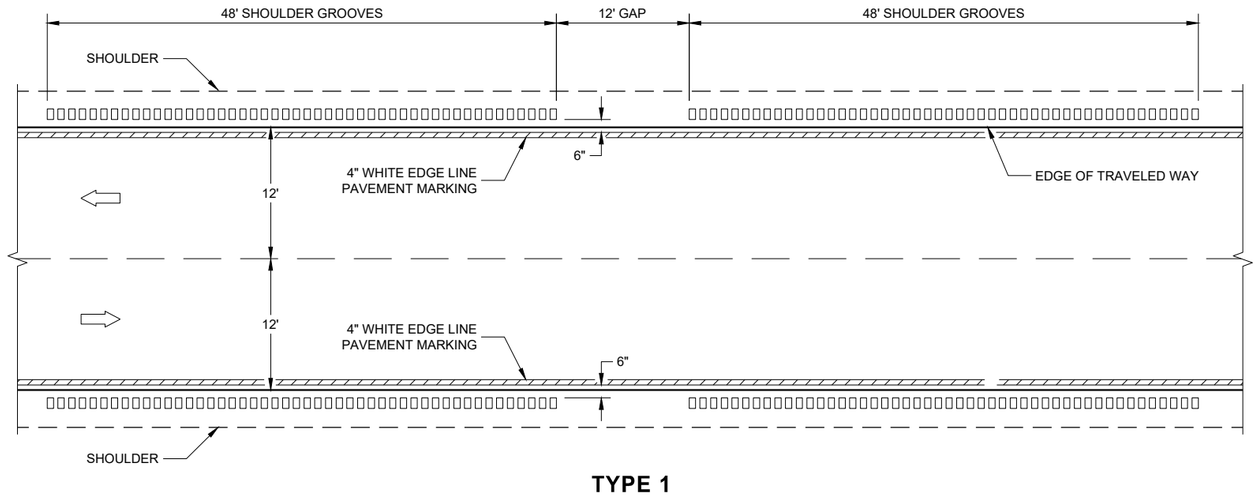
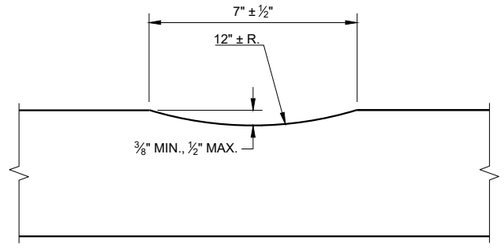
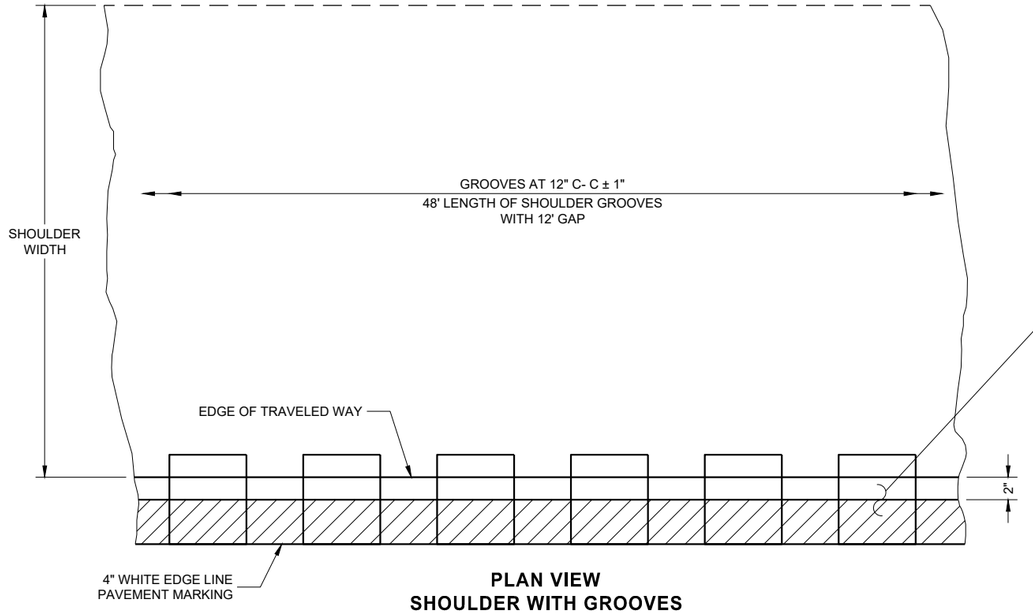


TYPE 1
2 - LANE SHOULDER RUMBLE STRIP

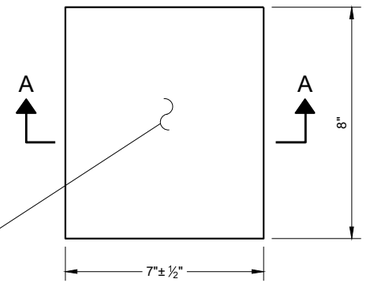


SECTION A - A

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING



PLAN VIEW
SHOULDER WITH GROOVES



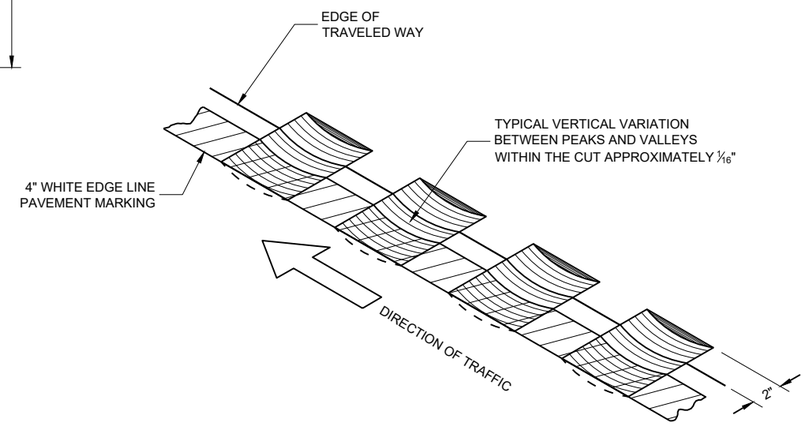
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

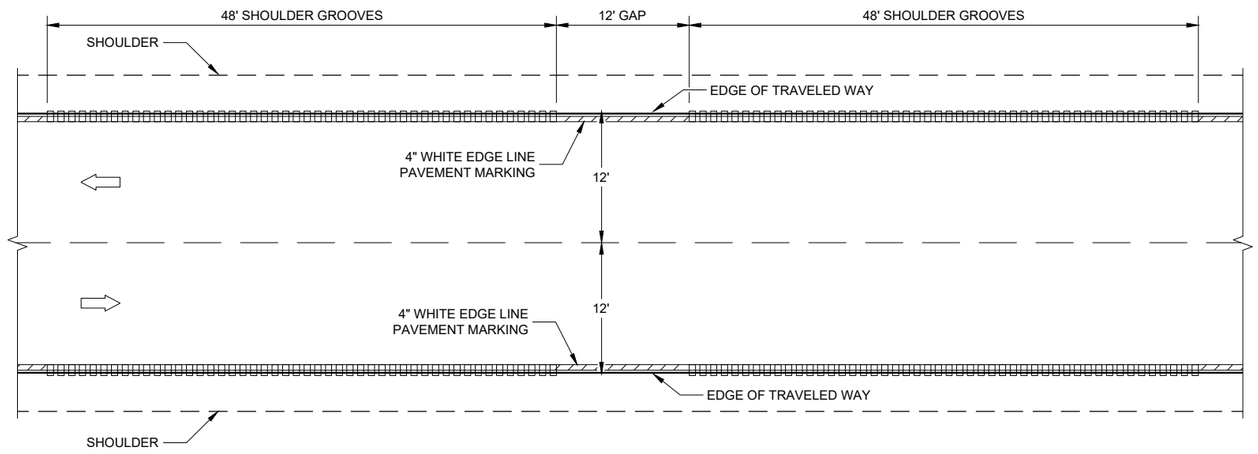
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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

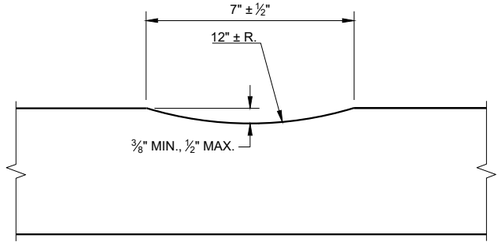


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



TYPE 2
2 - LANE SHOULDER RUMBLE STRIP



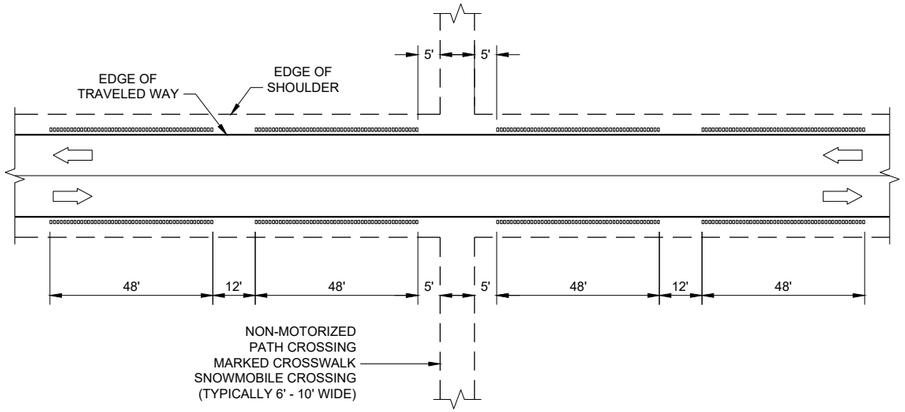
SECTION A - A

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

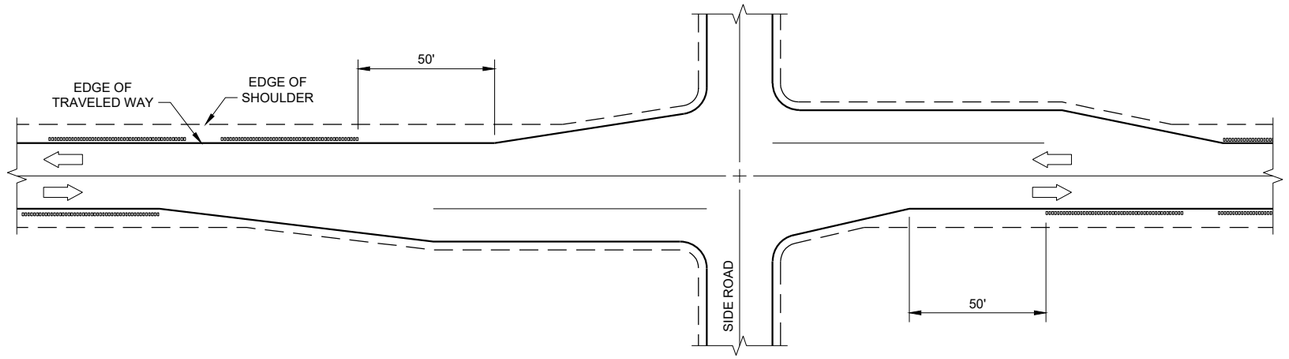
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 13A10 - 02b

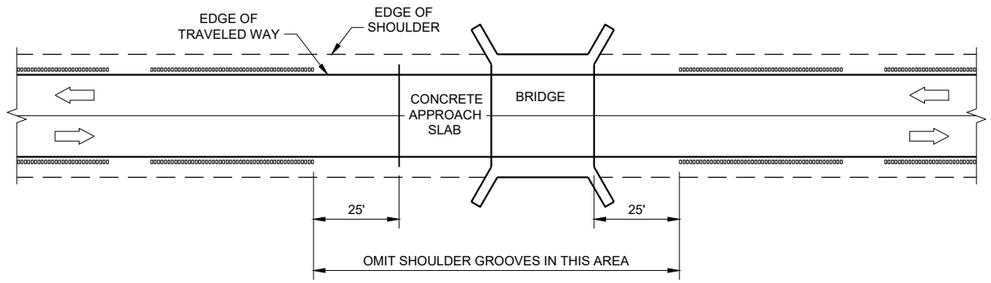
SDD 13A10 - 02b



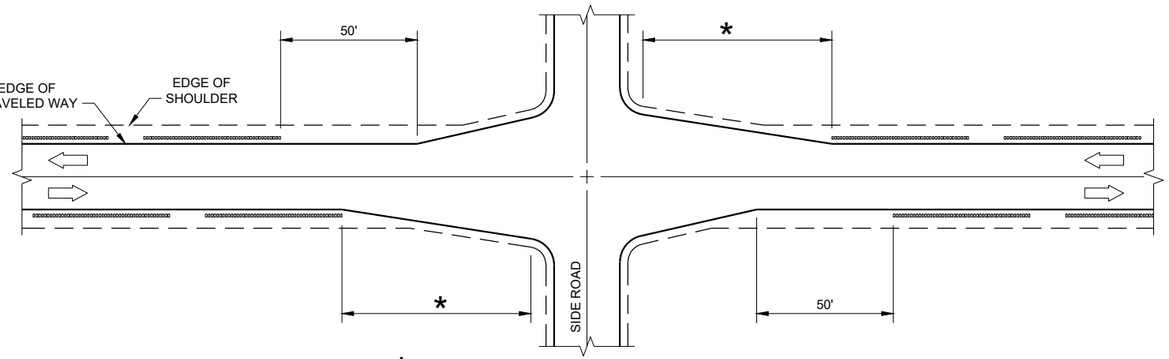
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



SHOULDER GROOVES AT RIGHT TURN LANE

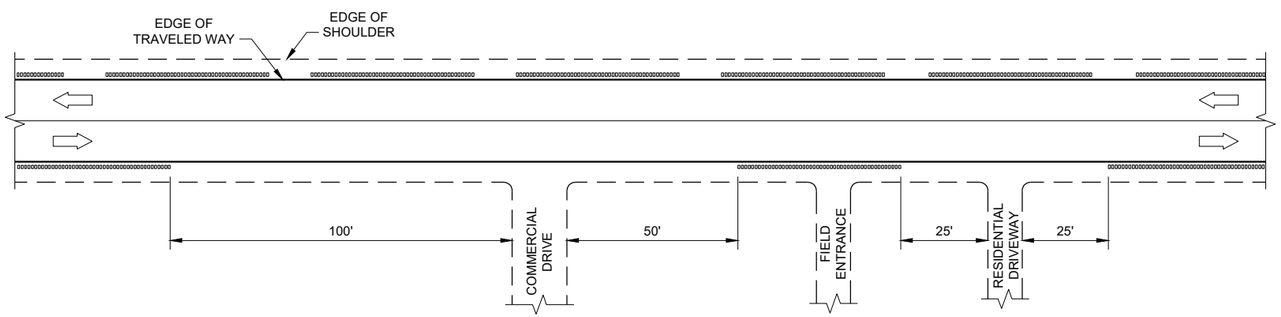


SHOULDER GROOVES AT BRIDGES



* GREATER OF 100' OR APPROACH TAPER LENGTH

SHOULDER GROOVES AT INTERSECTIONS WITH APPROACH TAPER



SHOULDER GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

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

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

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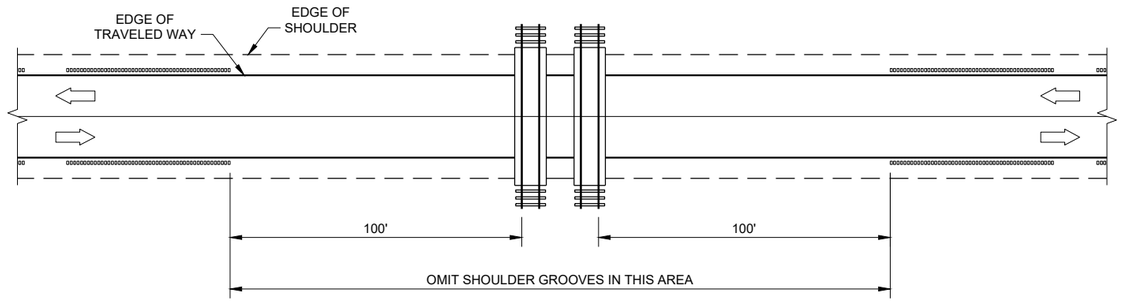
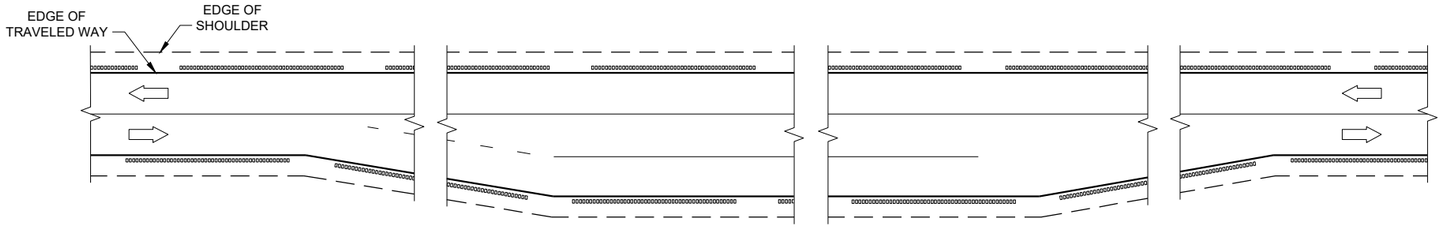
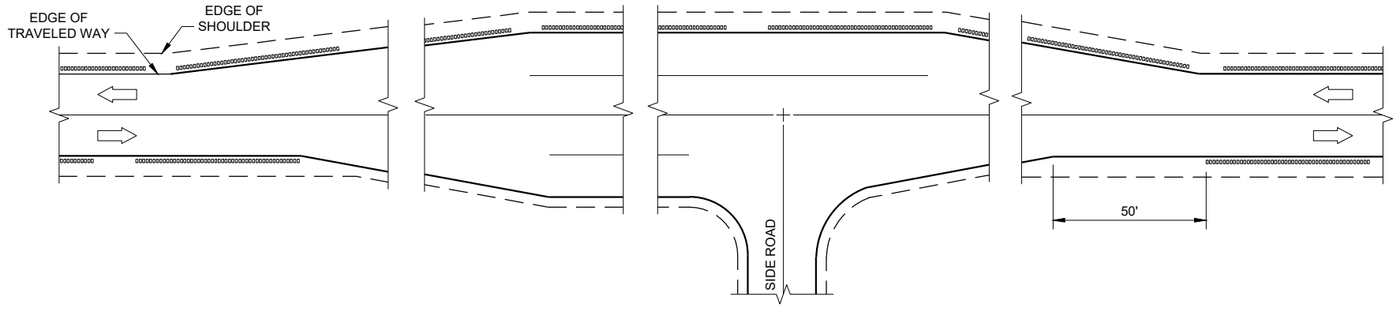
SDD 13A10 - 02c



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

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2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

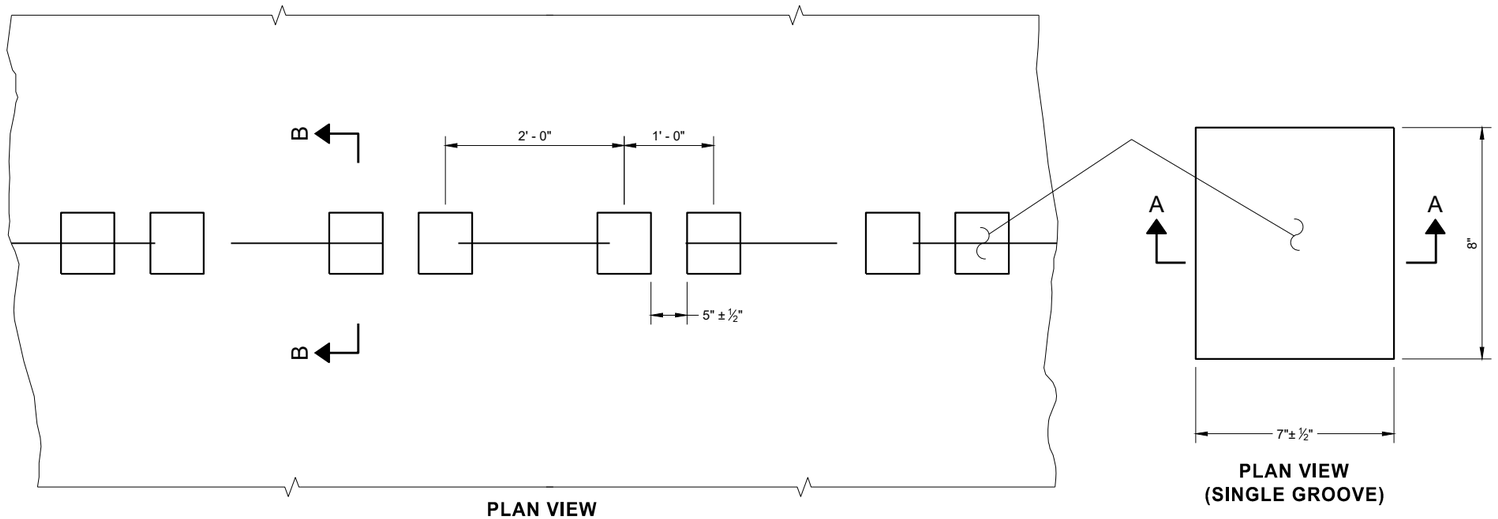
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

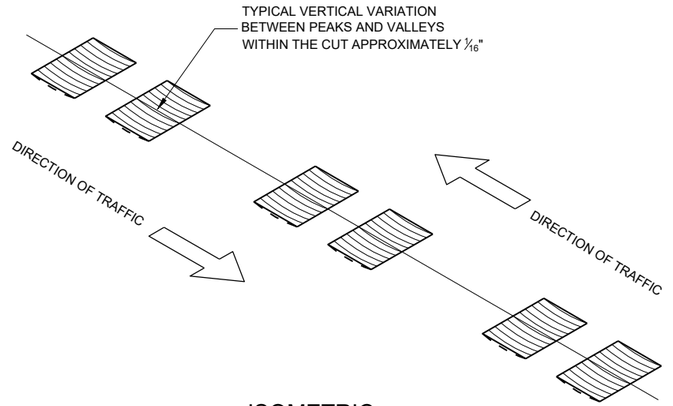
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTERLINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

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



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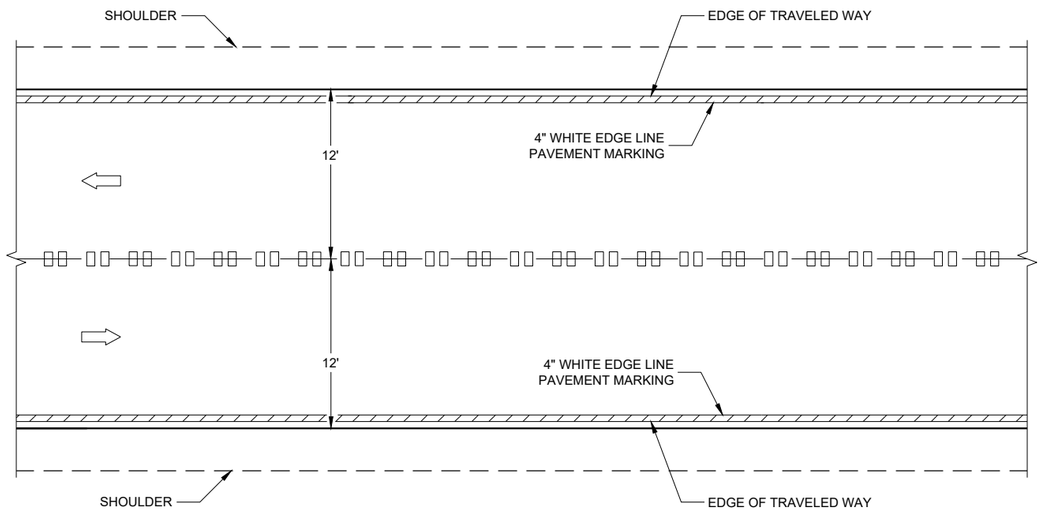
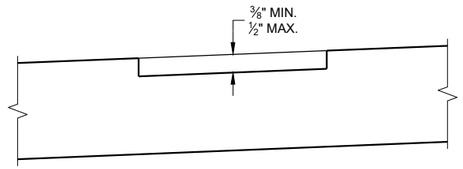
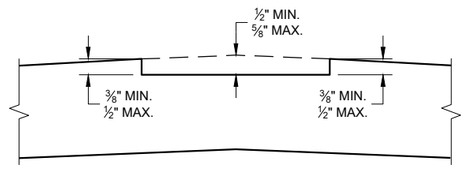


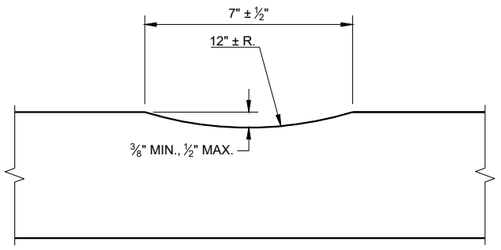
CENTERLINE GROOVES ON TWO-WAY ROADWAYS



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



SECTION A - A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13A11 - 03a

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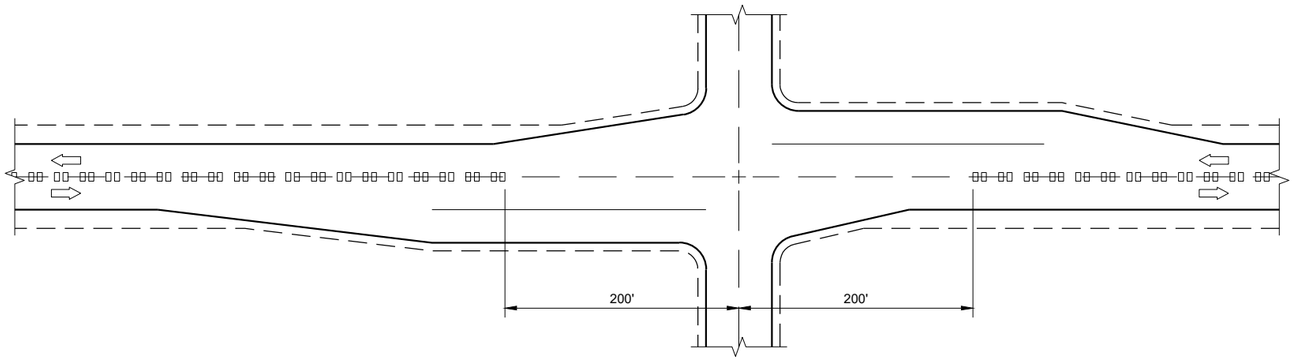
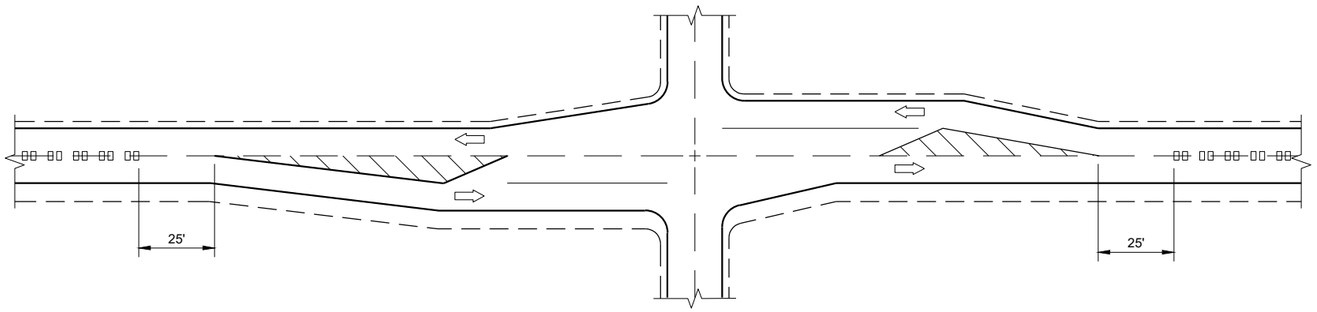
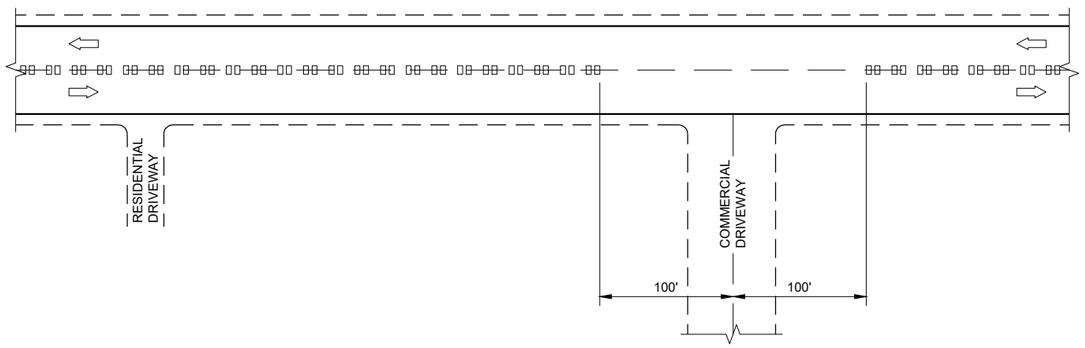
SDD 13A11 - 03a



CENTERLINE GROOVES AT INTERSECTIONS



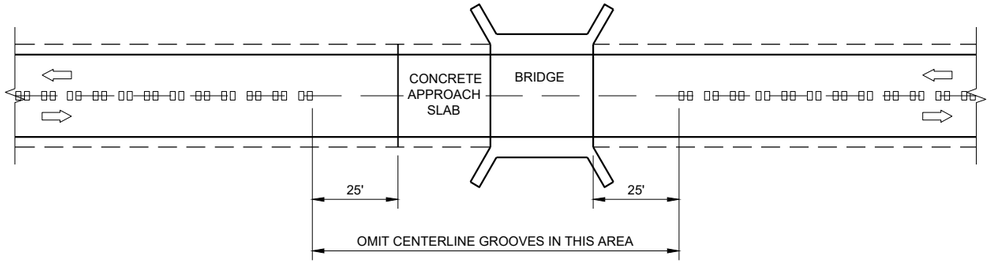
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



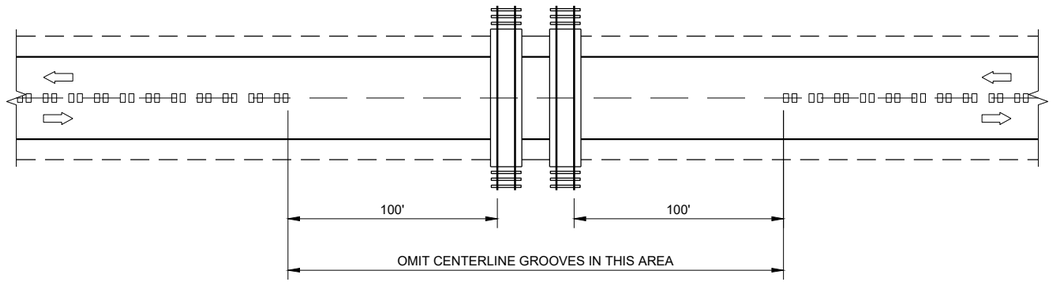
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

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



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

2-LANE RURAL CENTERLINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 13A11 - 03b

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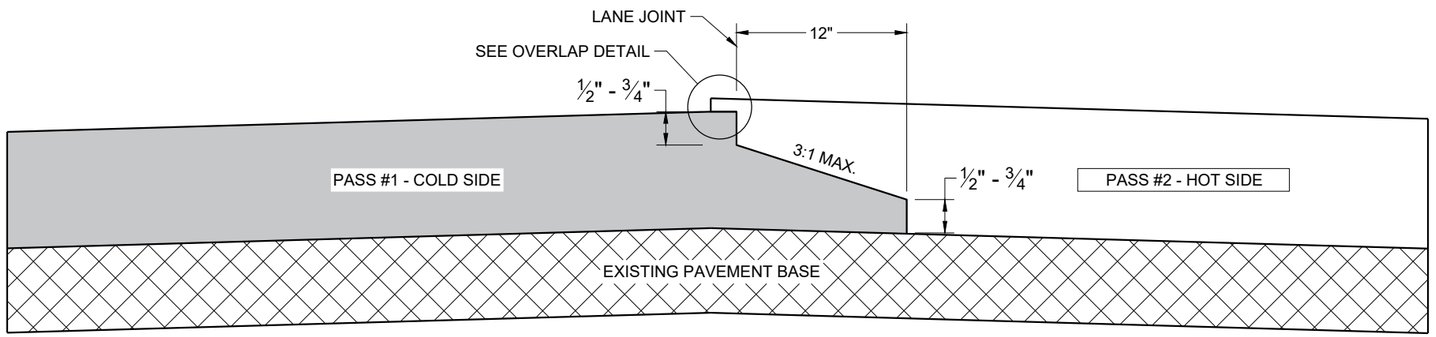
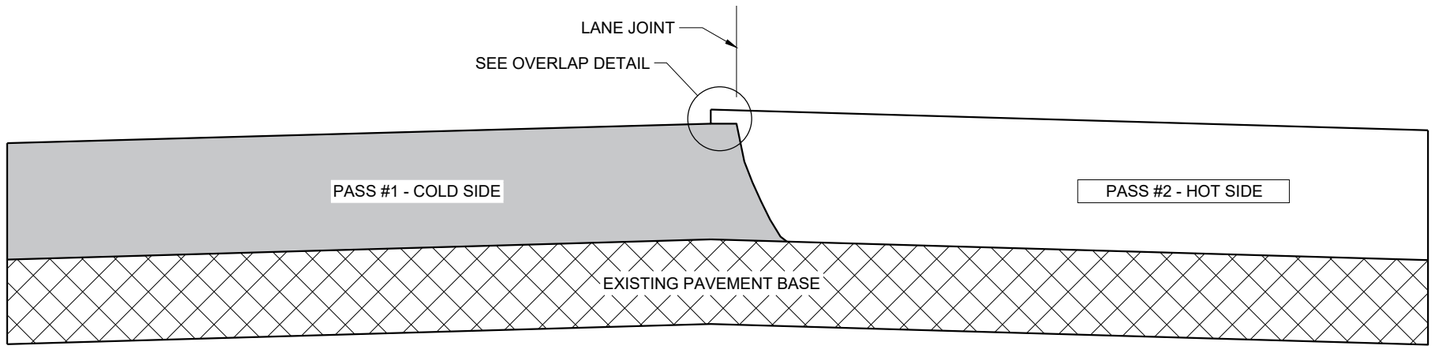
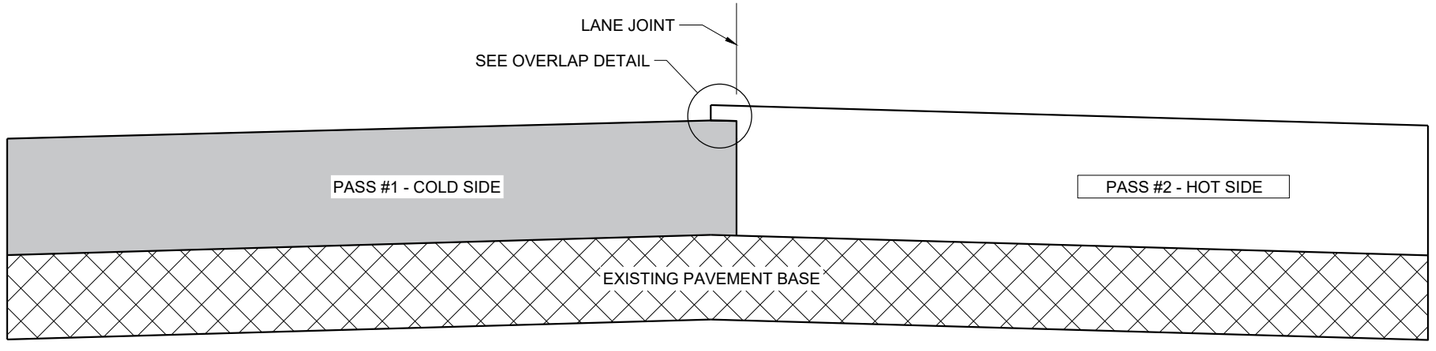
SDD 13A11 - 03b



TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL LONGITUDINAL JOINT



TYPICAL PAVEMENT CROSS SECTION
OF MILLED LONGITUDINAL JOINT

GENERAL NOTES

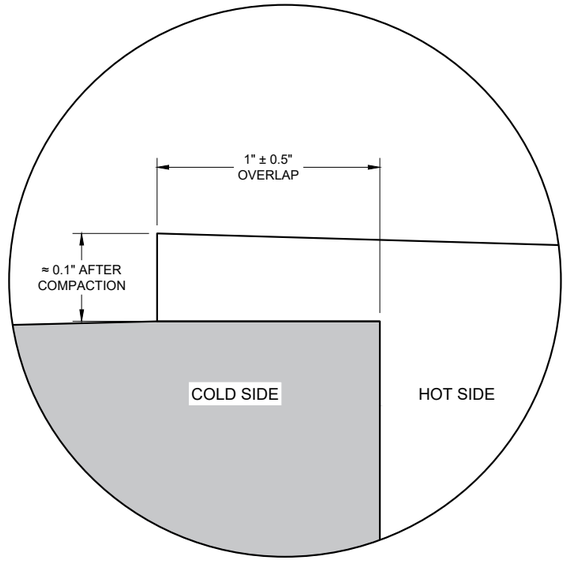
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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.

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

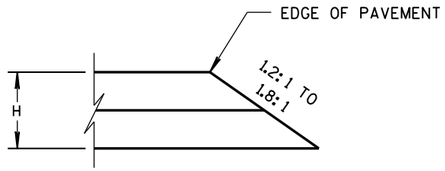
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA

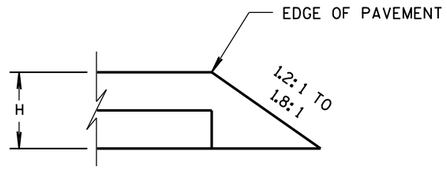
6

SDD 13C19 - 02



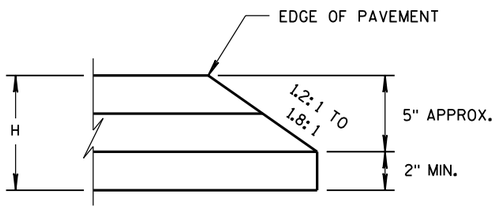
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



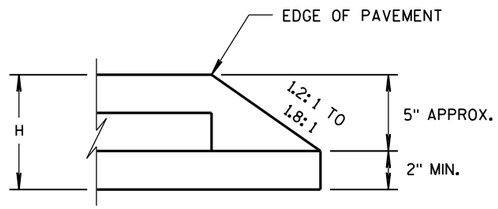
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

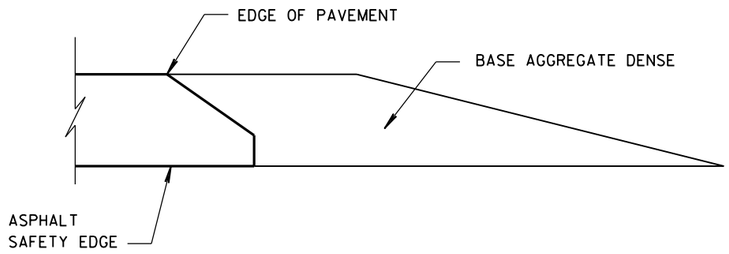
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

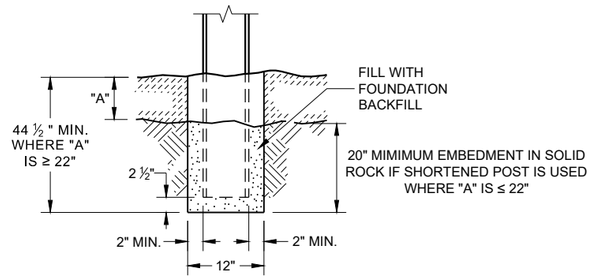
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL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

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

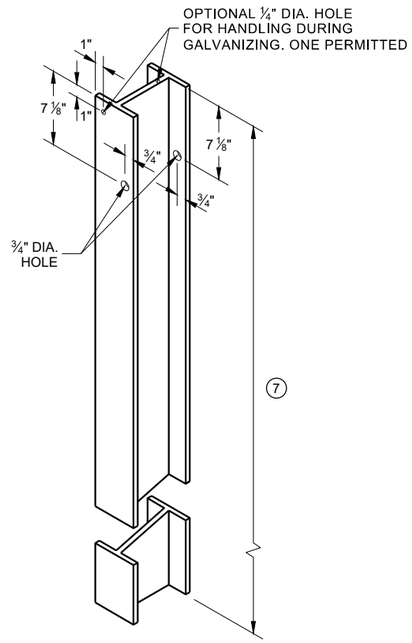
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

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

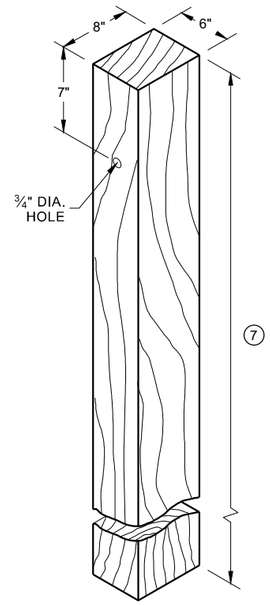
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



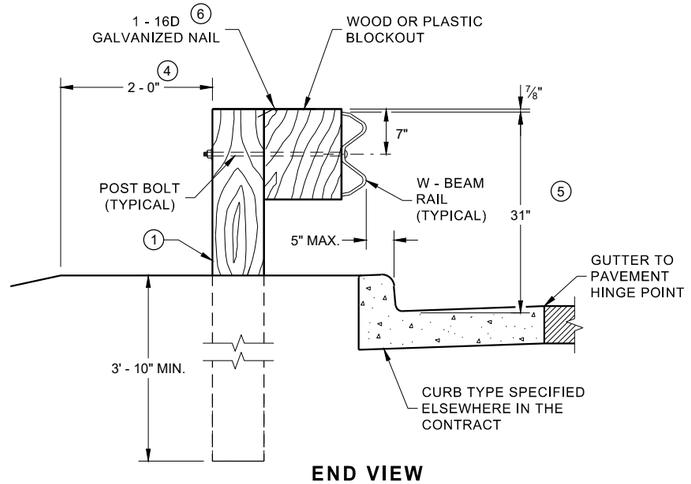
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



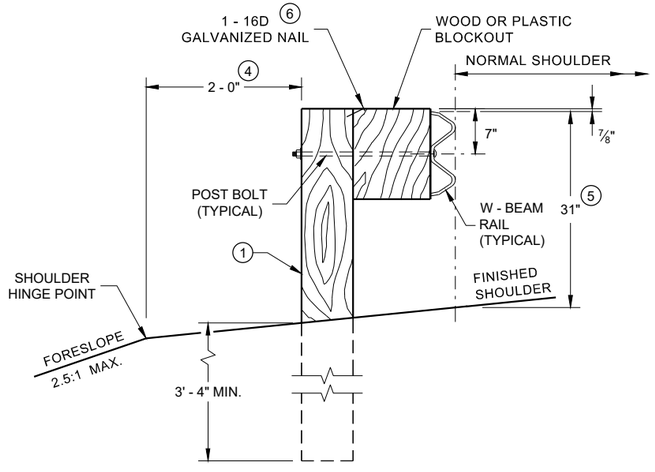
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



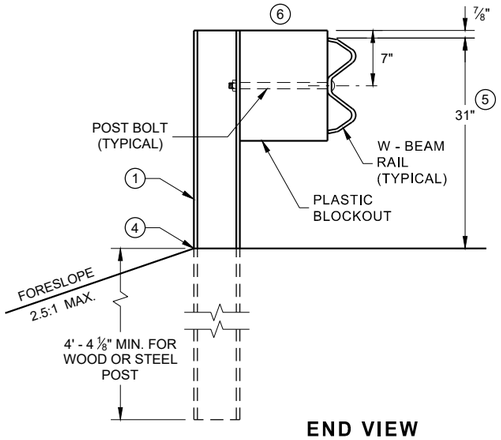
WOOD POST (6" X 8") NOMINAL (1)



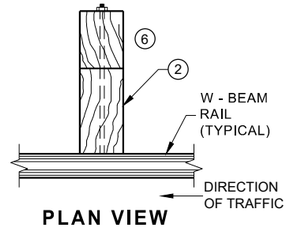
END VIEW
LOCATED ALONG A CURBED ROADWAY



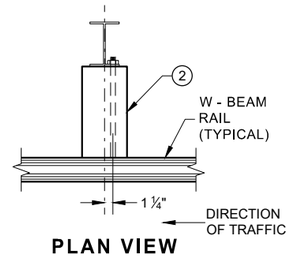
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



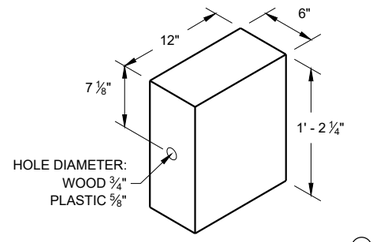
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

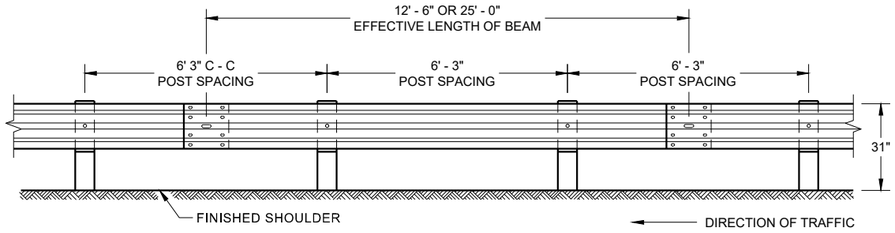
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

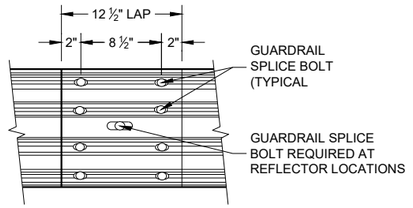
SDD 14B42 - 06a

6

SDD 14B42 - 06a



FRONT VIEW
POST SPACING STANDARD INSTALLATION



FRONT VIEW
MID-SPAN BEAM SPLICE

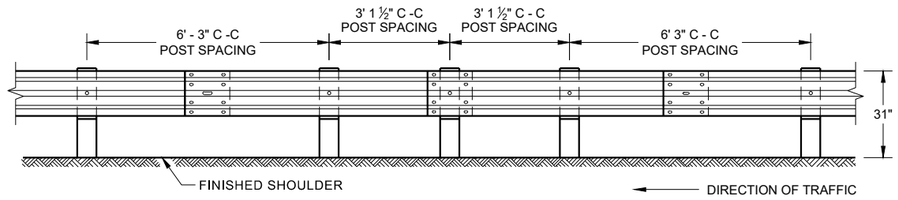
GENERAL NOTES

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

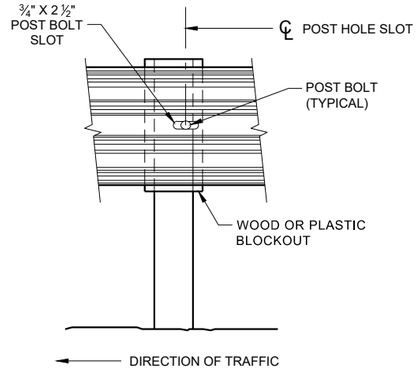
(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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.

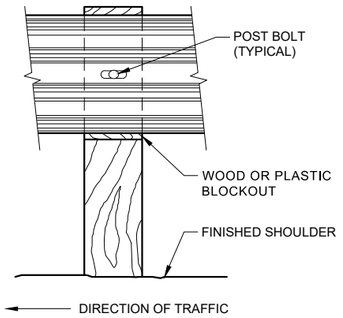
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



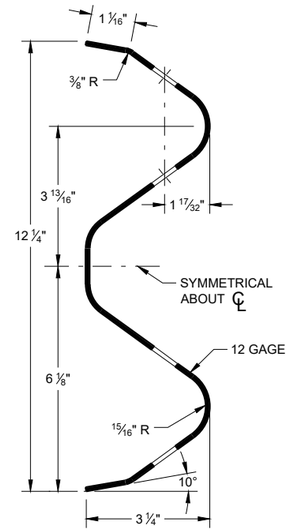
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



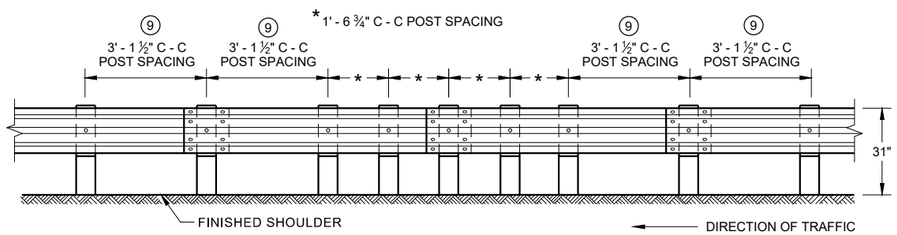
FRONT VIEW AT STEEL POST



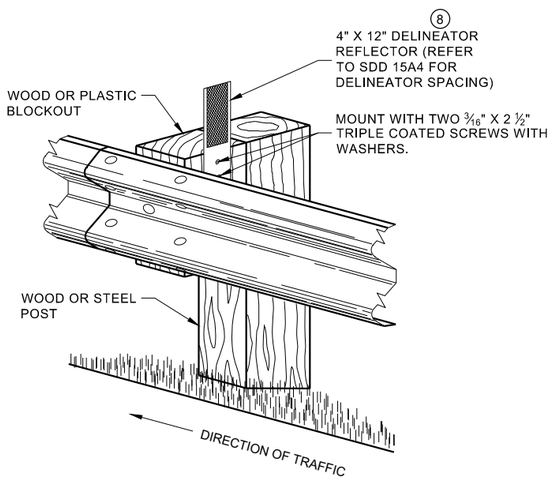
FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



FRONT VIEW
QUARTER POST SPACING (QS)



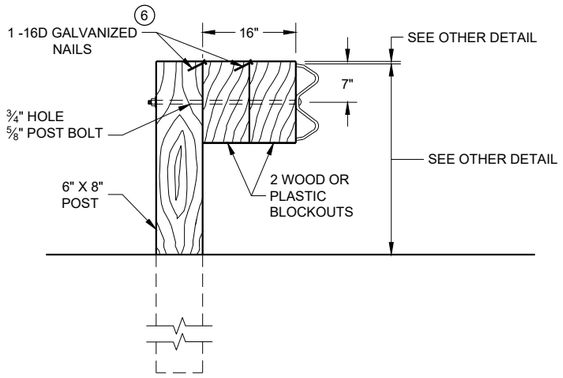
ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B42 - 06b
SDD 14B42 - 06b

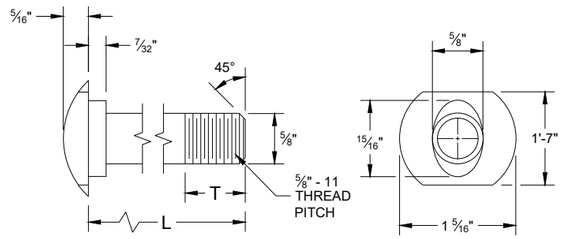


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

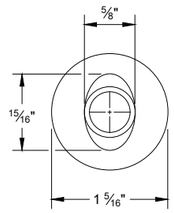
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

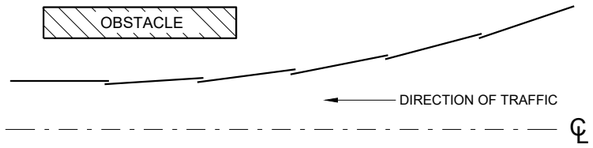


POST BOLT TABLE

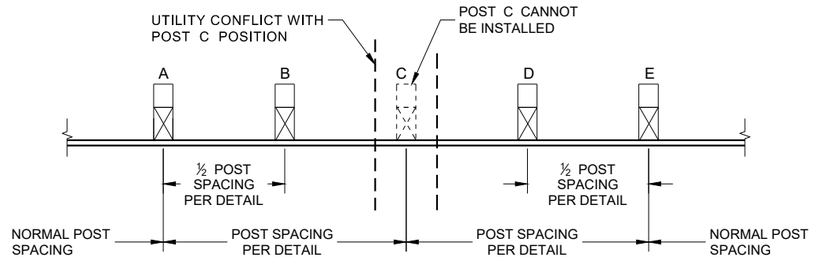
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



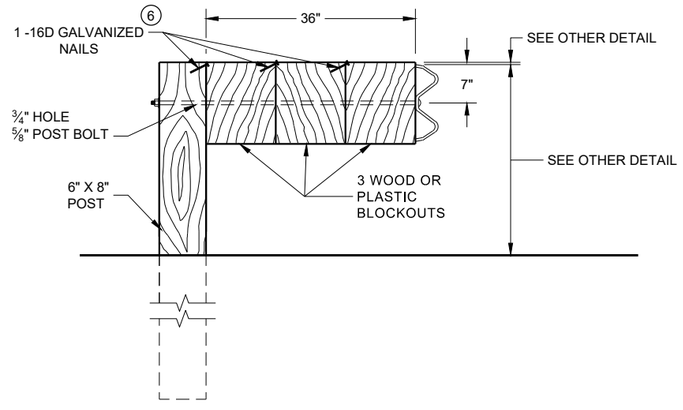
ALTERNATE BOLT HEAD



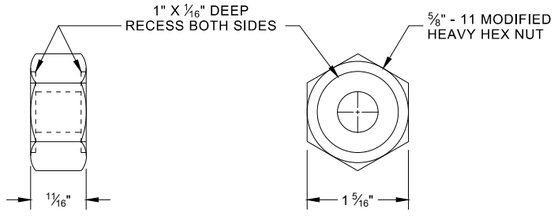
PLAN VIEW
BEAM LAPPING DETAIL



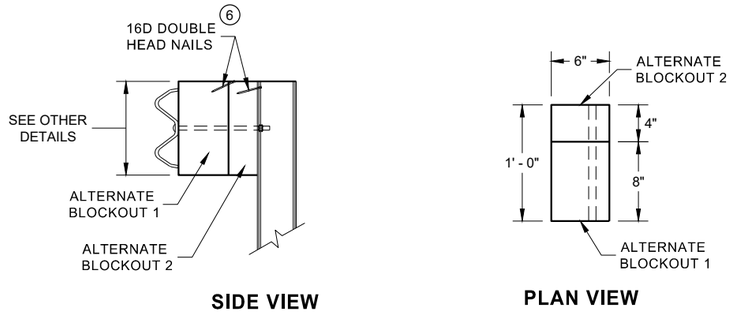
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW

PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

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

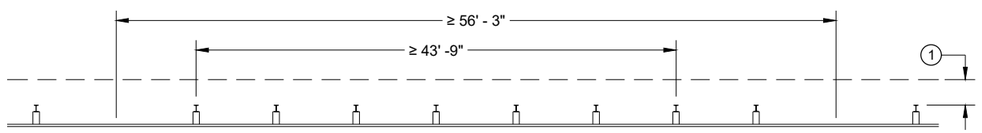
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

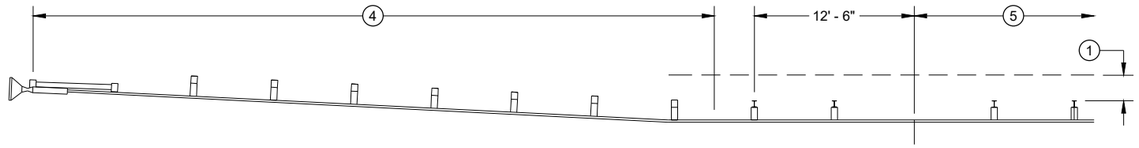
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

6

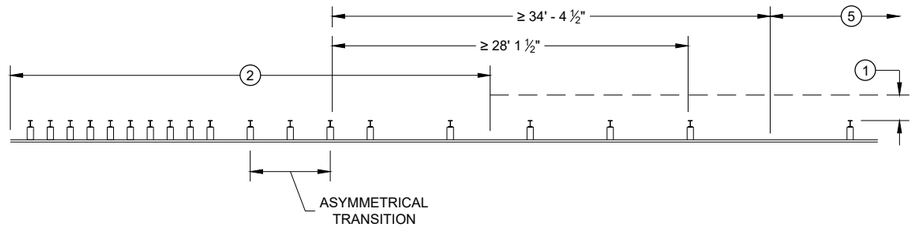
SDD 14B42 - 06c



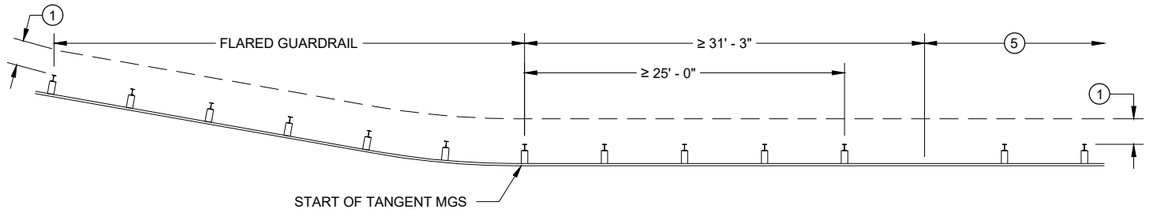
MISSING POST IN NORMAL BEAM GUARD RUN



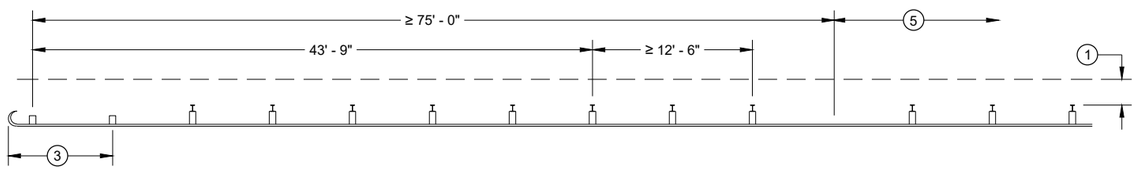
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



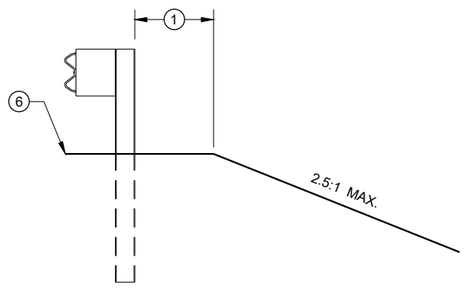
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

1. MINIMUM OF 2 FEET OF GRADING BEHIND POST.
2. SEE SDD 14B45 FOR MORE DETAILS.
3. SEE SDD 14B47 FOR MORE DETAILS.
4. SEE SDD 14B44 FOR MORE DETAILS.
5. SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
6. SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

SDD 14B42 - 06d

6

SDD 14B42 - 06d

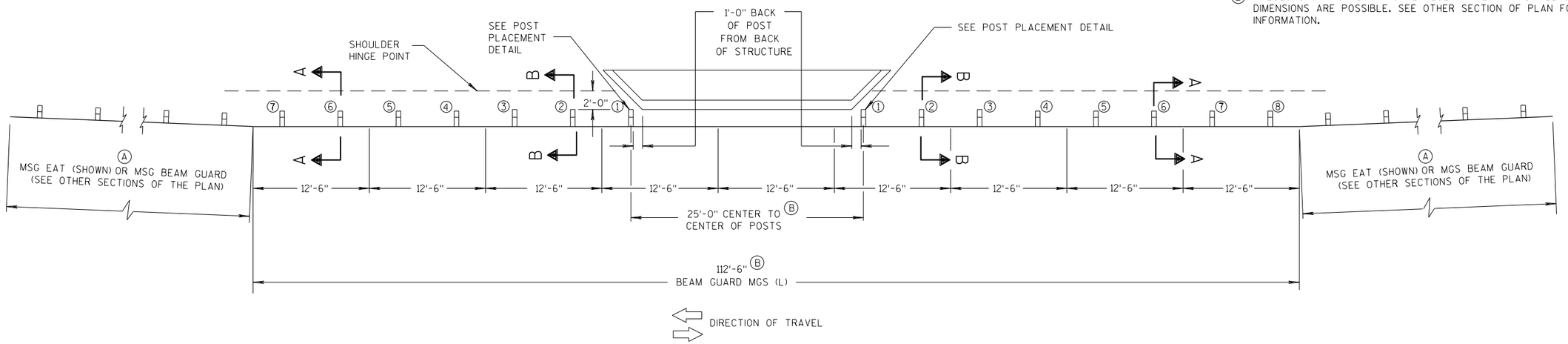
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

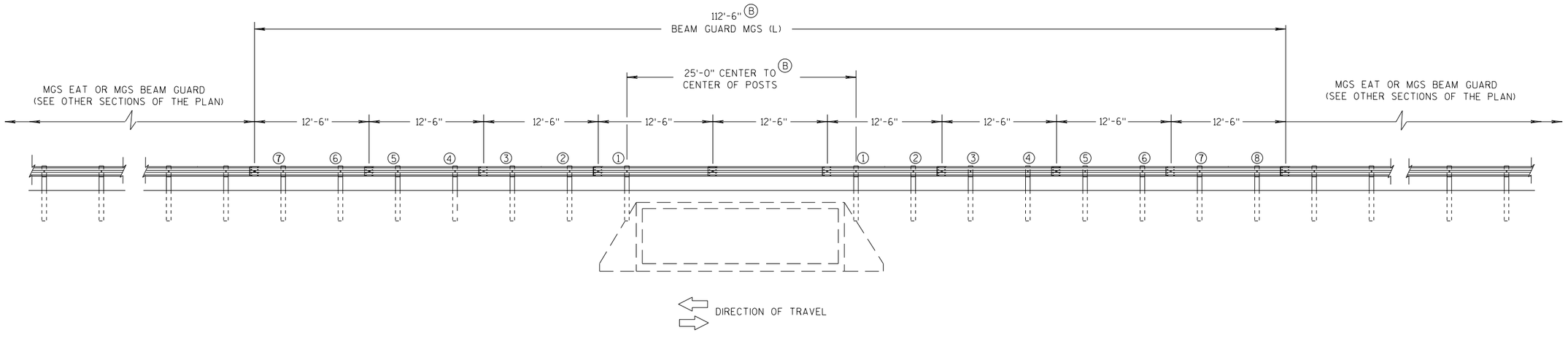
SEE SDD 14 B 42 FOR MORE DETAILS.

(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

6
S.D.D. 14 B 43-4a

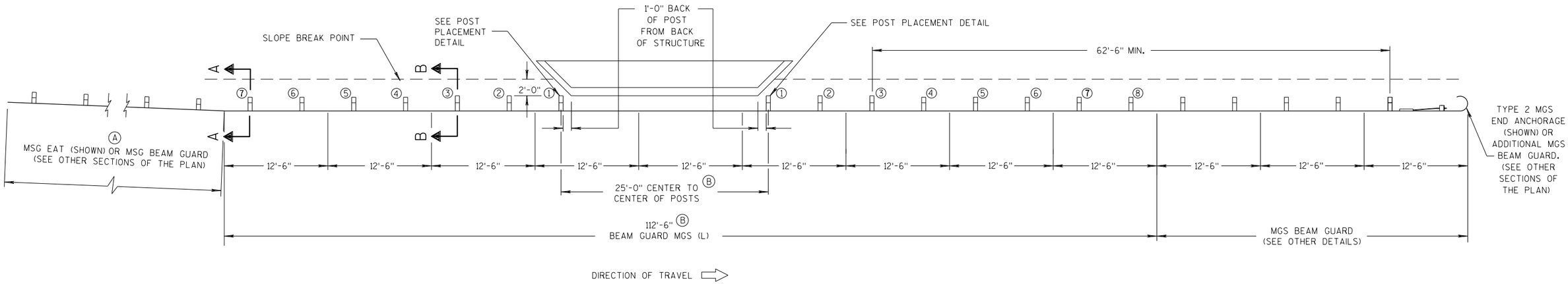
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

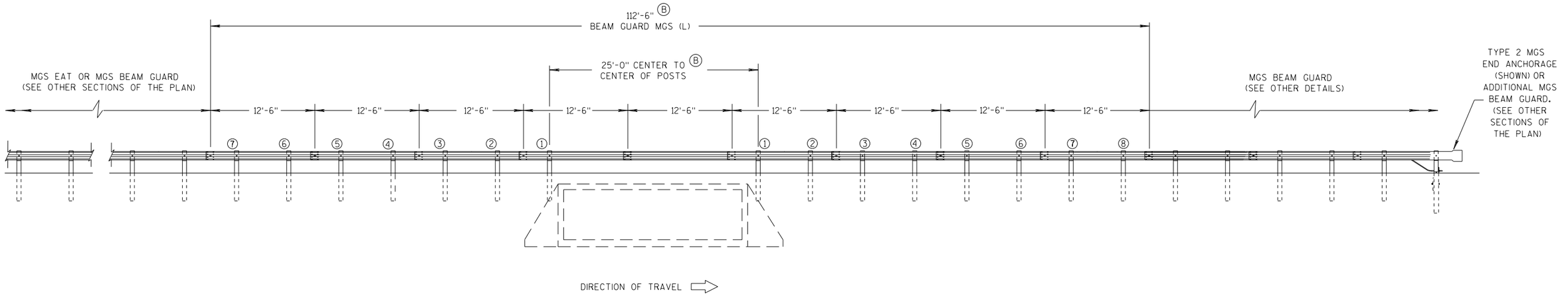
SEE SDD 14 B 42 FOR MORE DETAILS.

(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



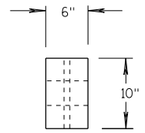
ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

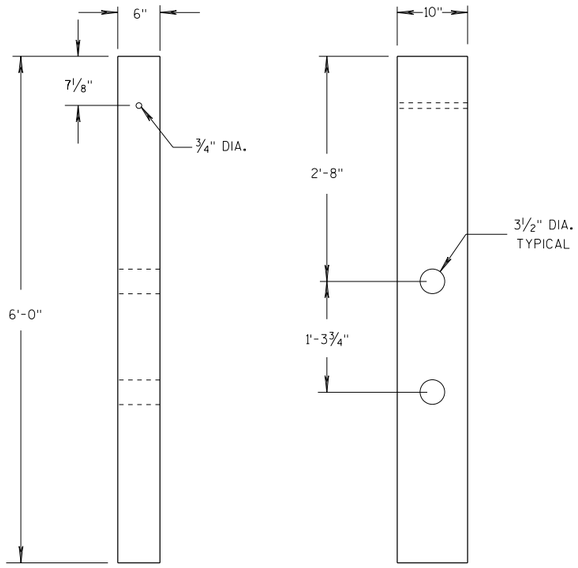
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	174

6

S.D.D. 14 B 43-4b

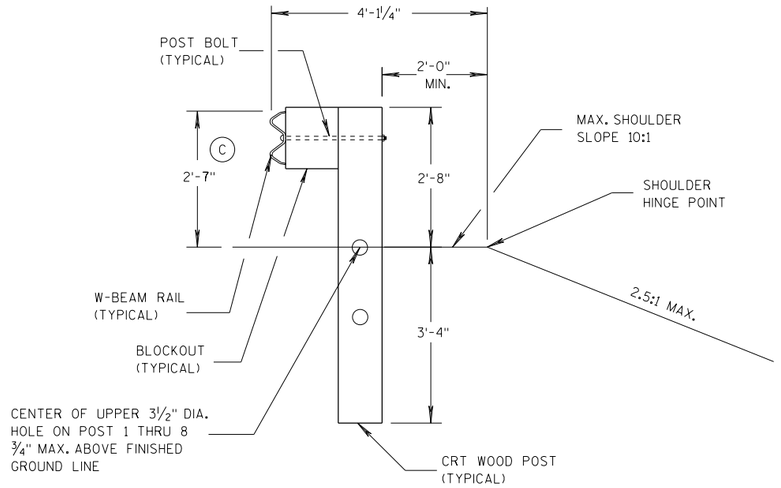


PLAN VIEW



FRONT VIEW SIDE VIEW

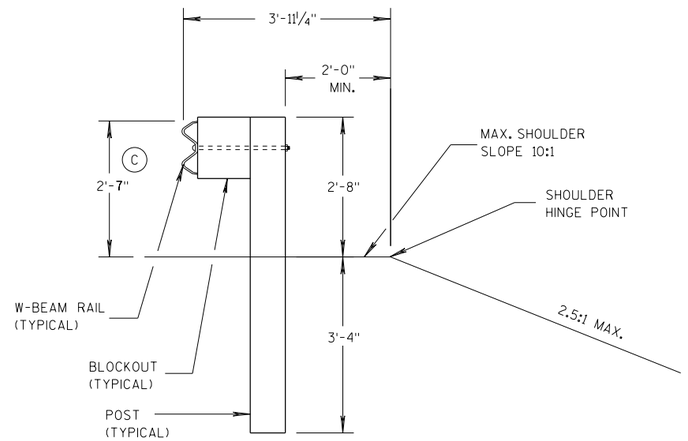
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



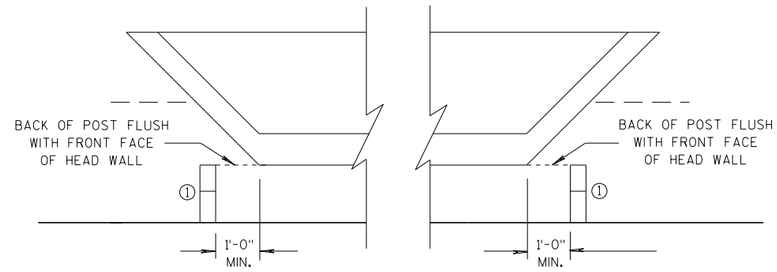
SECTION A-A

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 D 175 NT
ENGINEER

6

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.

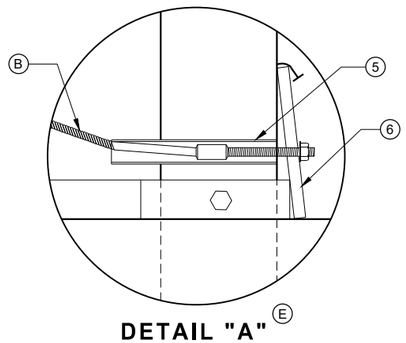
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

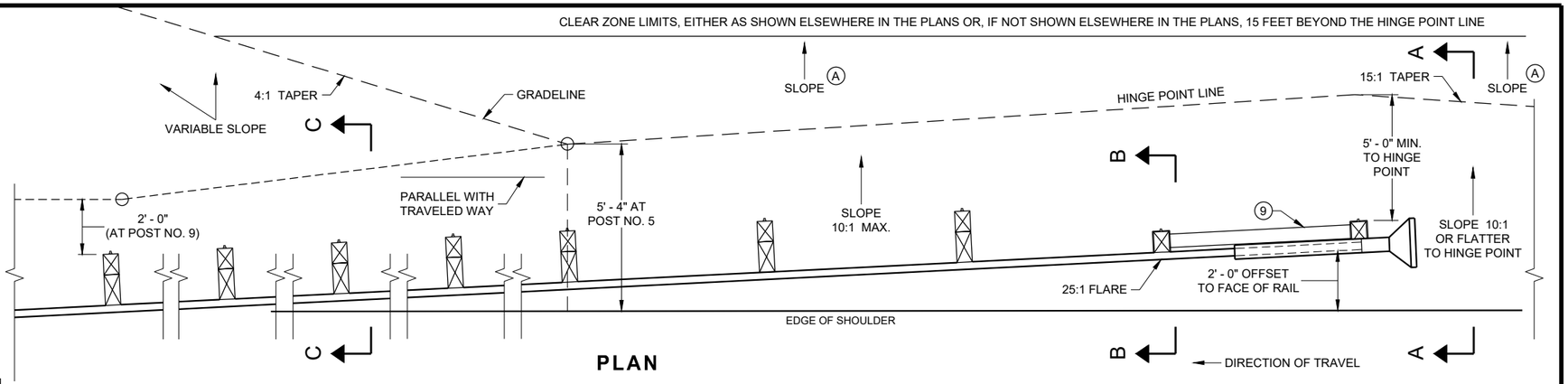
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

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

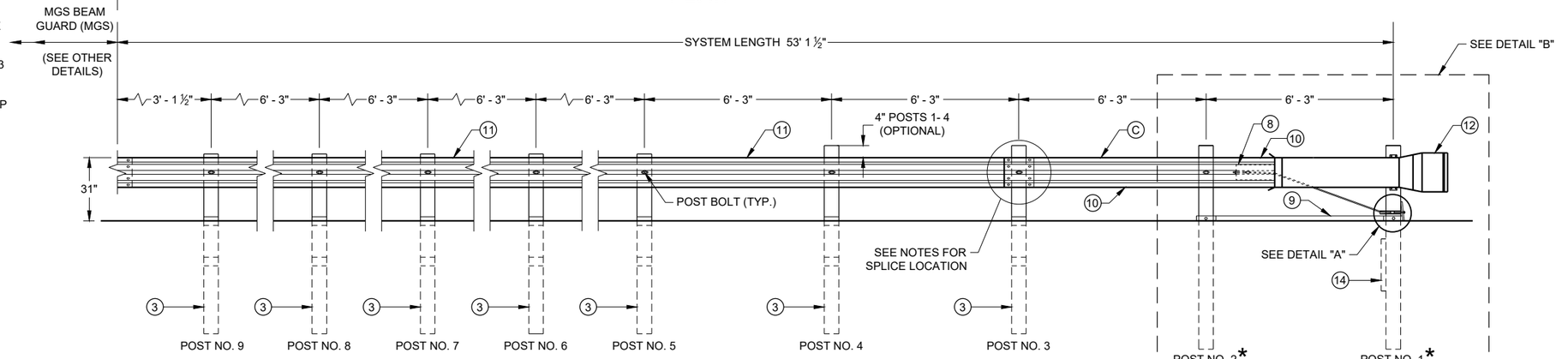
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



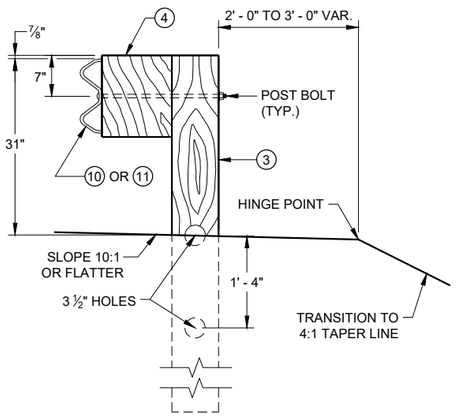
DETAIL "A" (E)



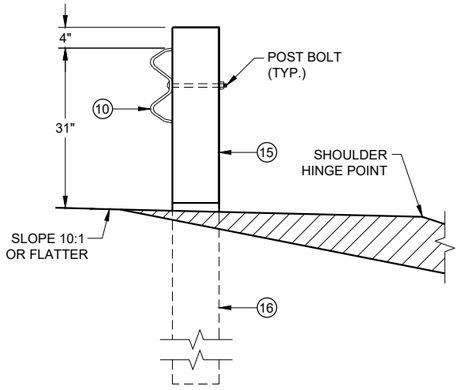
PLAN



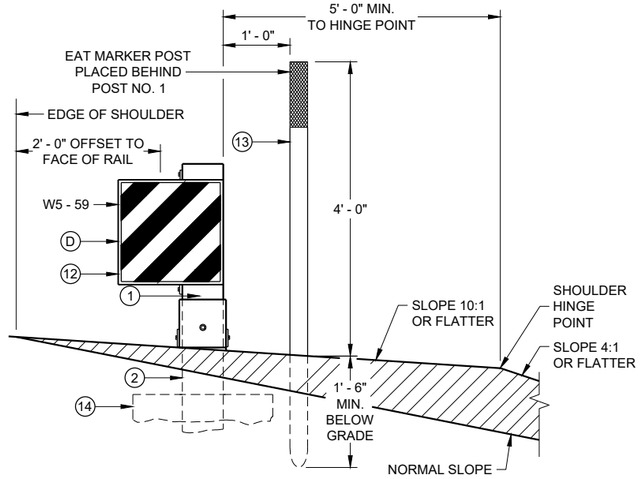
ELEVATION



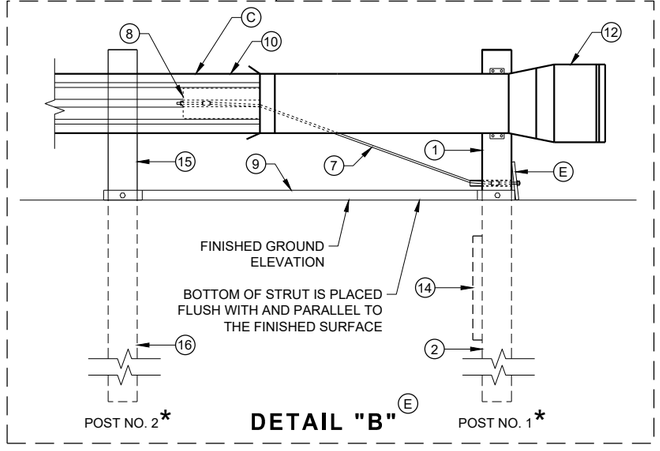
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



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)

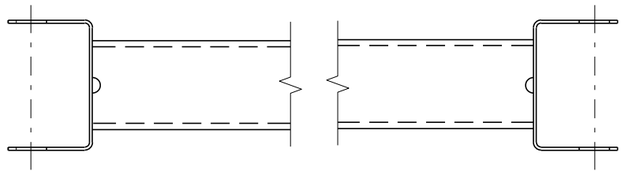
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

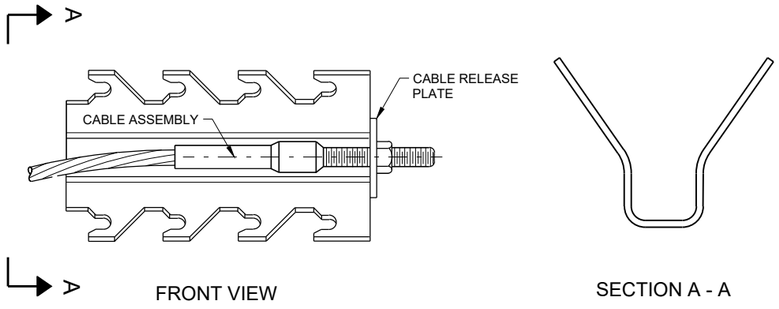
SDD 14B44 - 04a

BILL OF MATERIALS

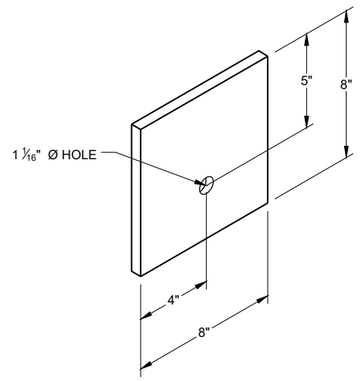
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL 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 GROUND STRUT ⑨ Ⓔ



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



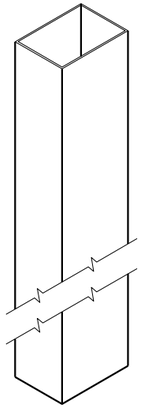
BEARING PLATE ⑥ Ⓔ

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

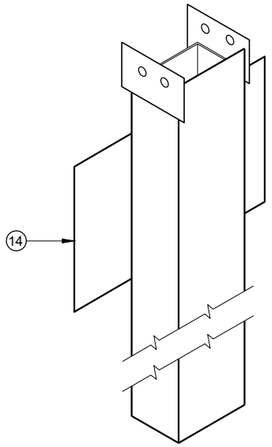
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

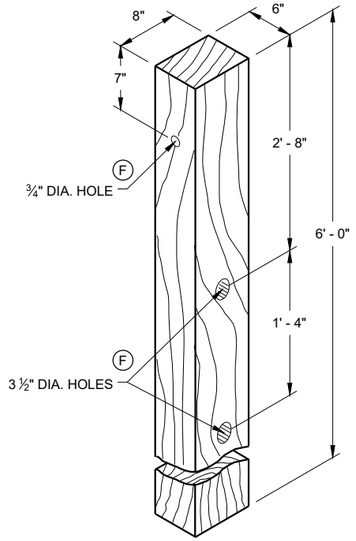
SDD 14B44 - 04b



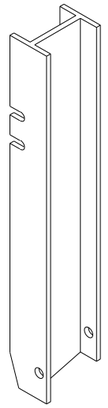
UPPER POST NO. 1 (1) (E)



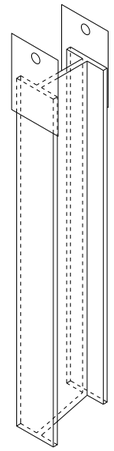
LOWER POST NO. 1 (2) (E)



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



UPPER POST NO. 2 (15) (E)



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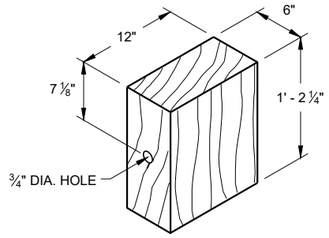
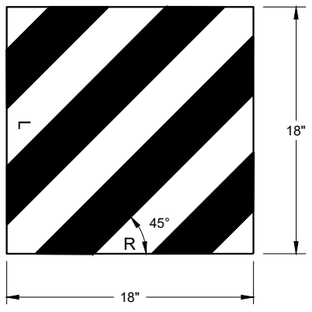
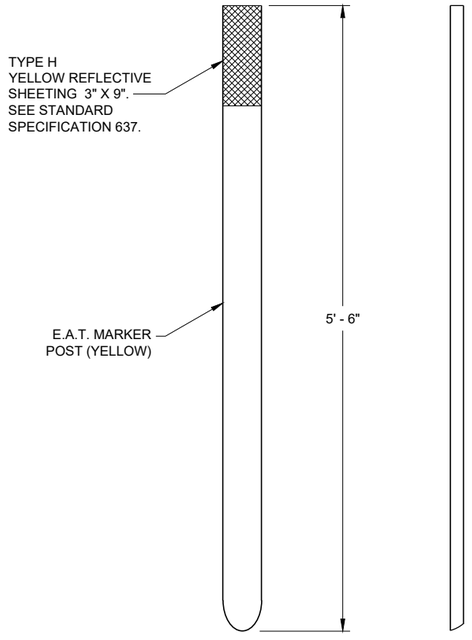


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



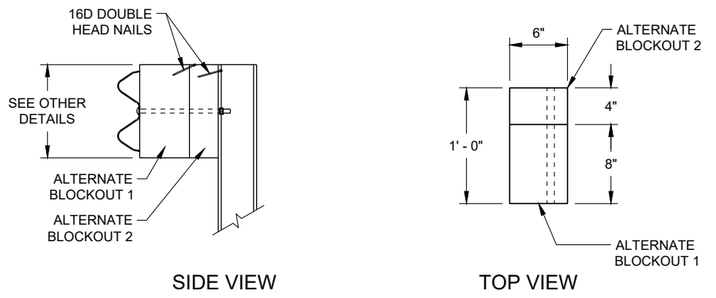
W5 - 59

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)

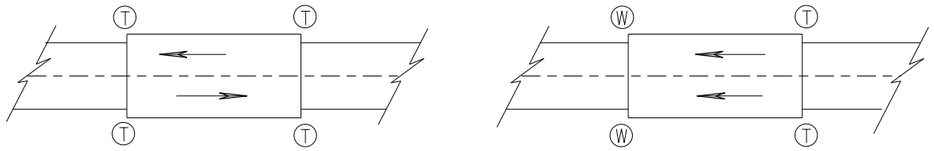
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

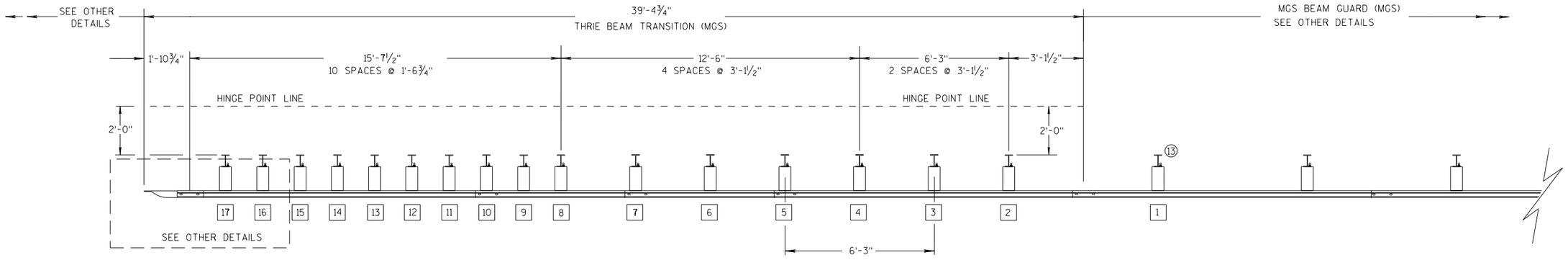
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

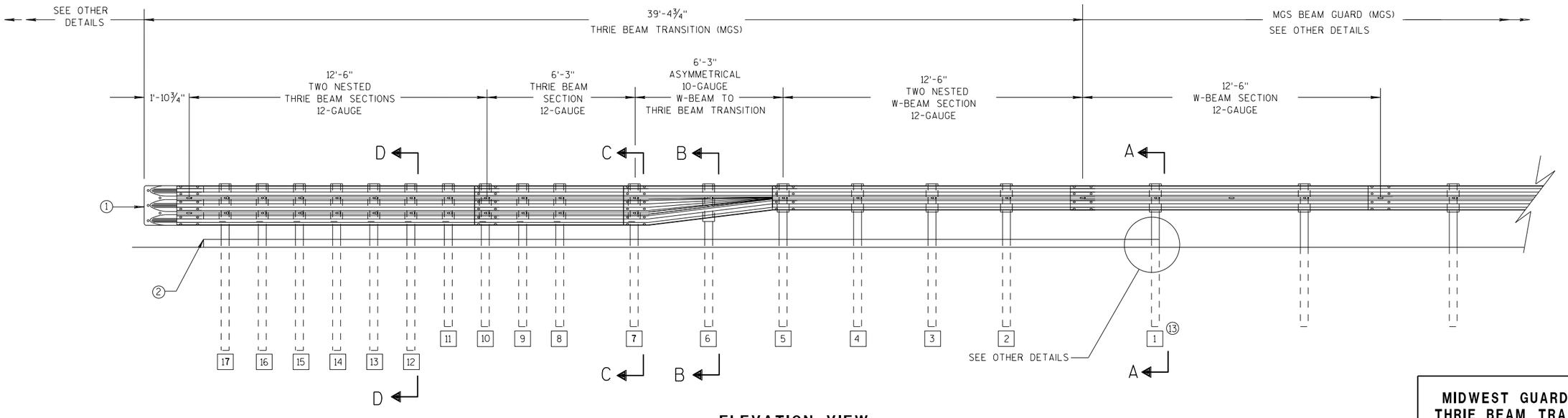
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(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

6

S.D.D. 14 B 45-5a

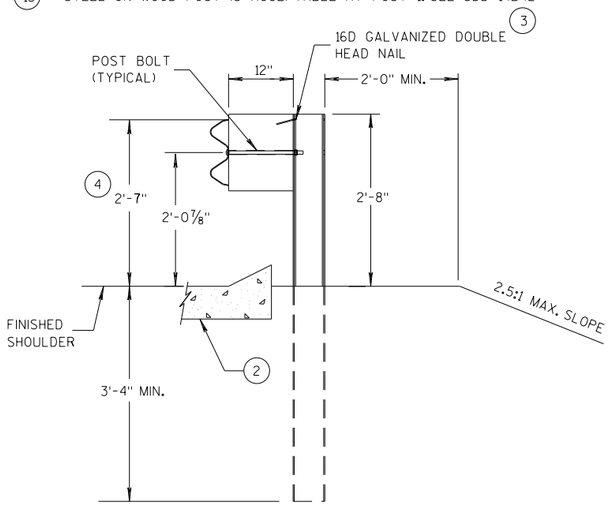
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

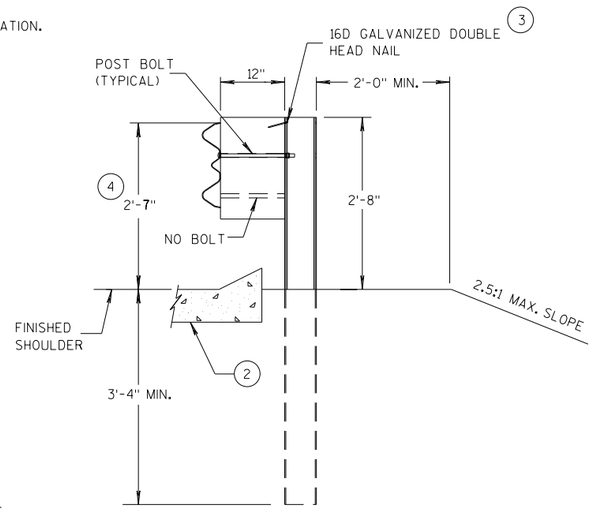
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



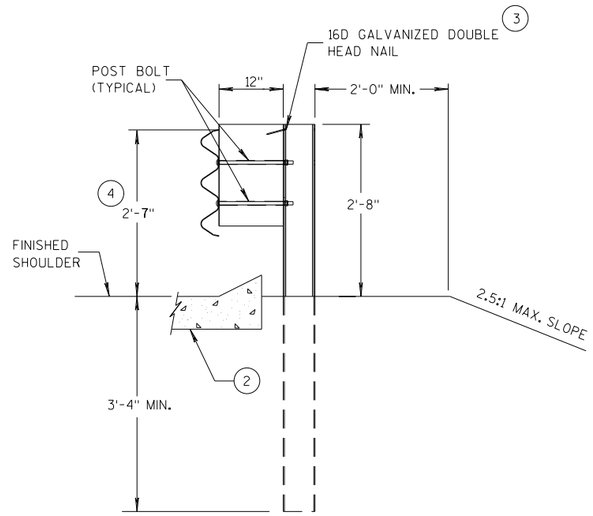
SECTION A-A (13)

POSTS 1-5



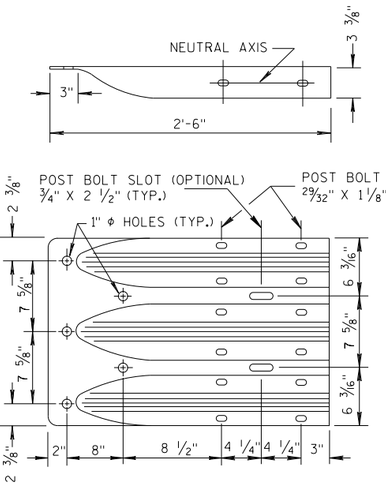
SECTION B-B

POST 6

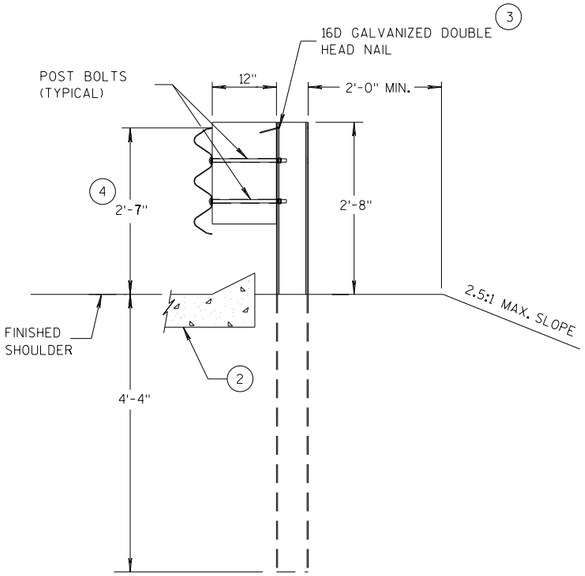


SECTION C-C

POSTS 7-11

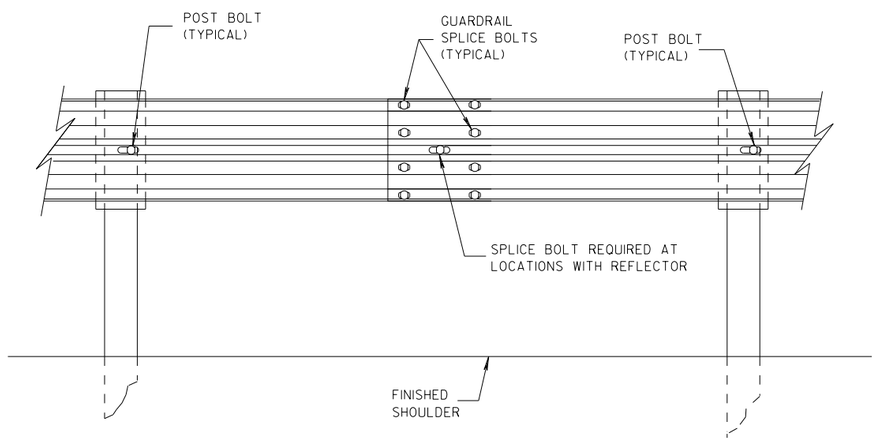


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

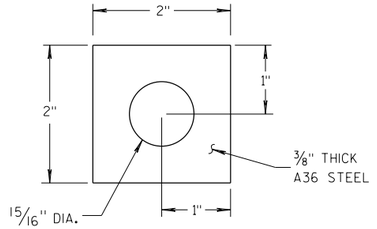
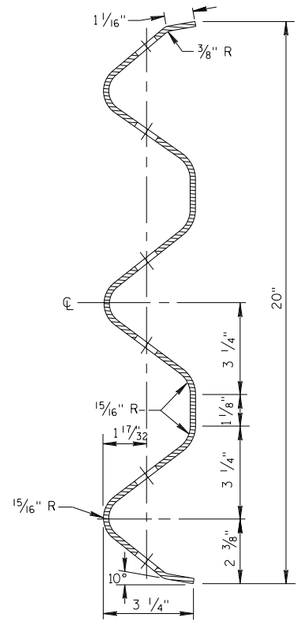


PLATE WASHER DETAIL



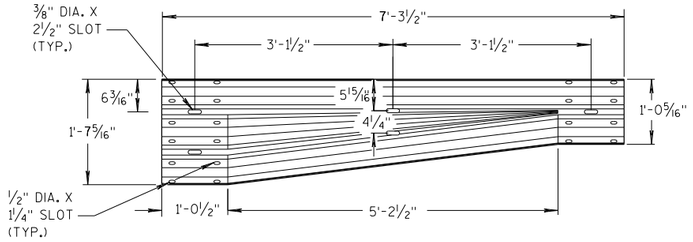
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

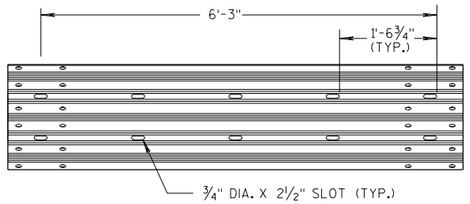
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

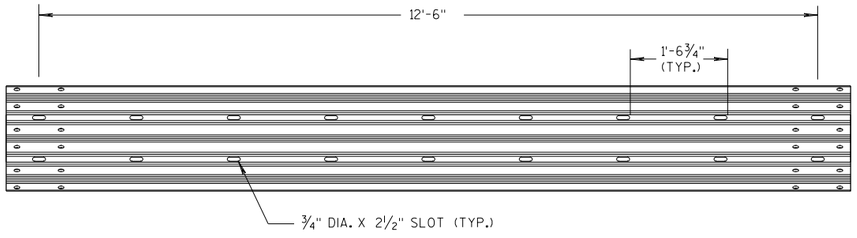
S.D.D. 14 B 45-5b



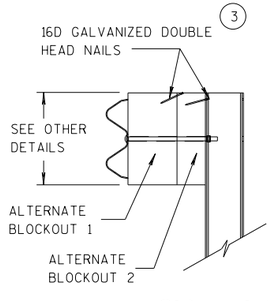
W-BEAM TO THRIE BEAM TRANSITION SECTION



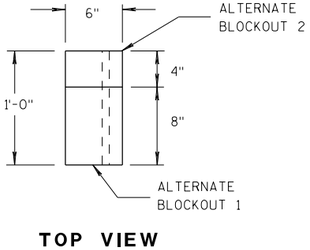
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

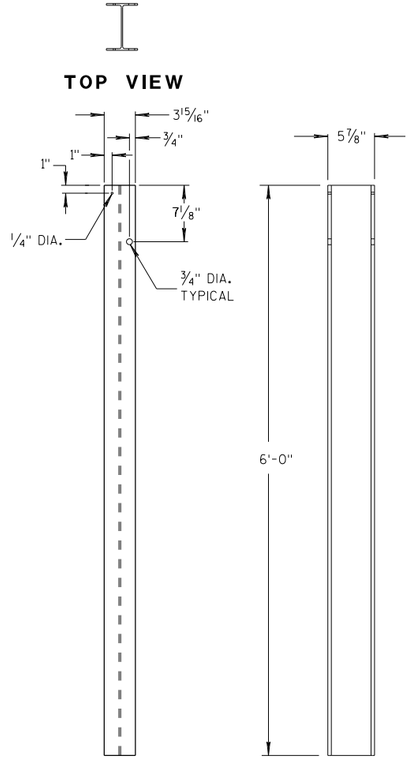


SIDE VIEW



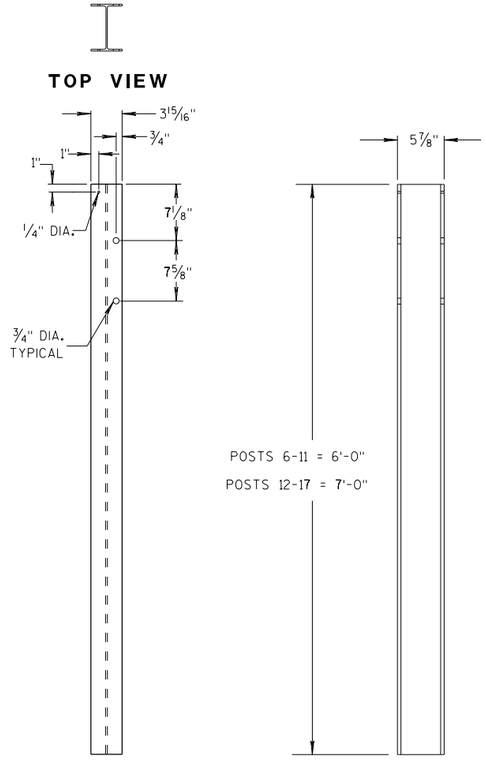
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



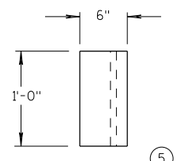
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

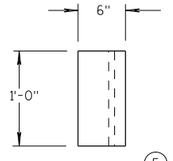


FRONT VIEW SIDE VIEW

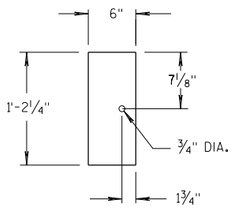
STEEL POSTS 6-17



TOP VIEW (5)

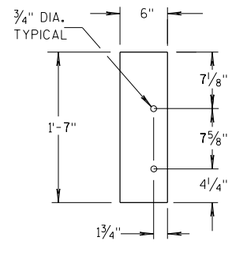


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

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

(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

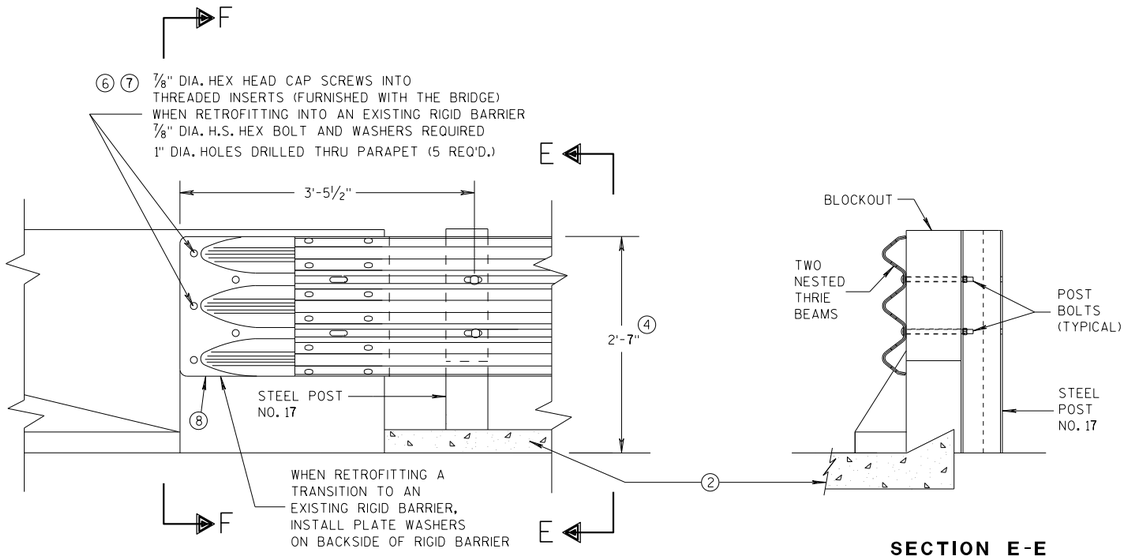
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

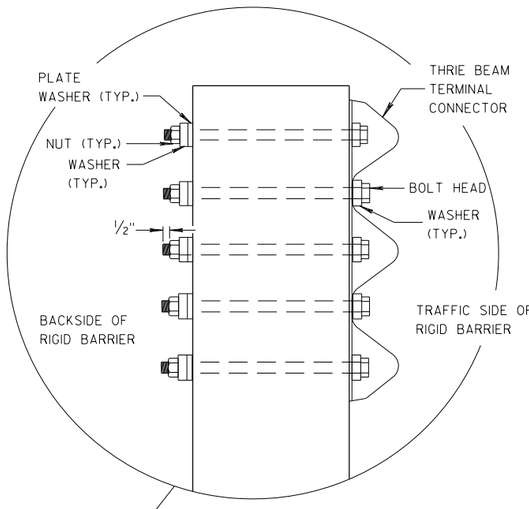
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

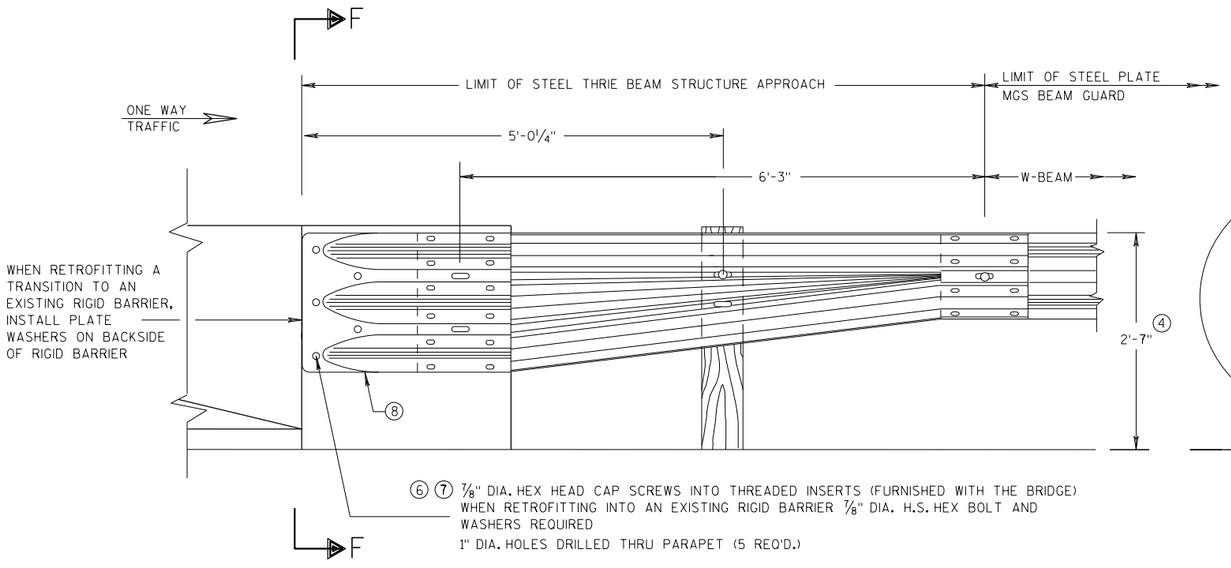
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

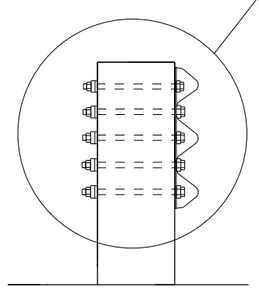
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

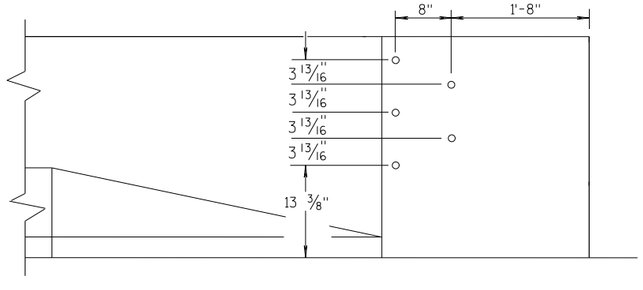




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[illegible] UNIT SUPERVIS[illegible]NT
FHWA

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S.D.D. 14 B 45-5d

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S.D.D. 14 B 45-5d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

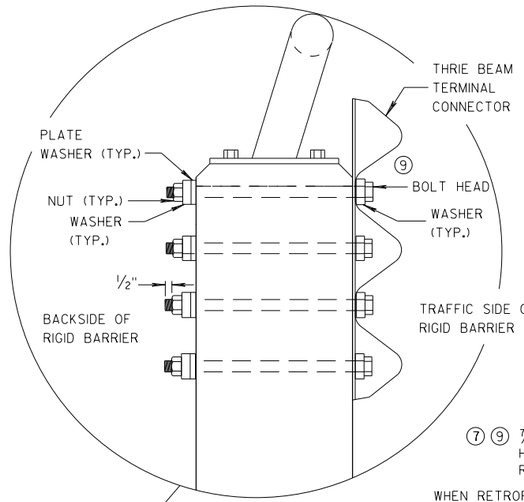
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

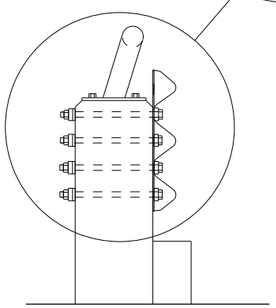
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

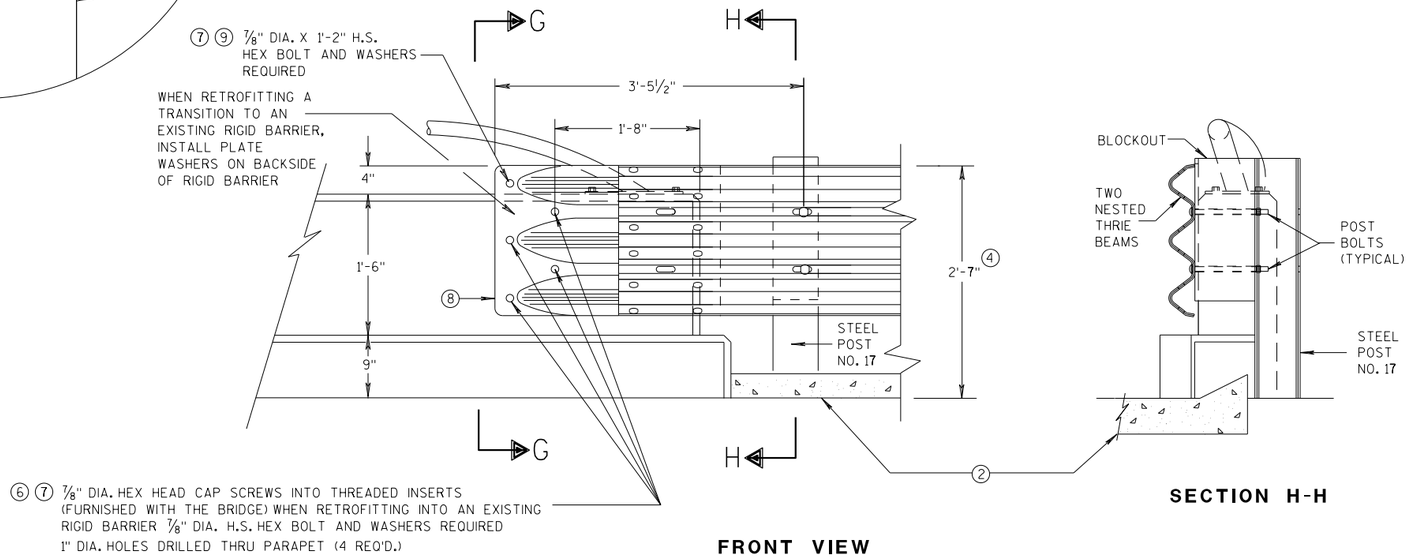
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





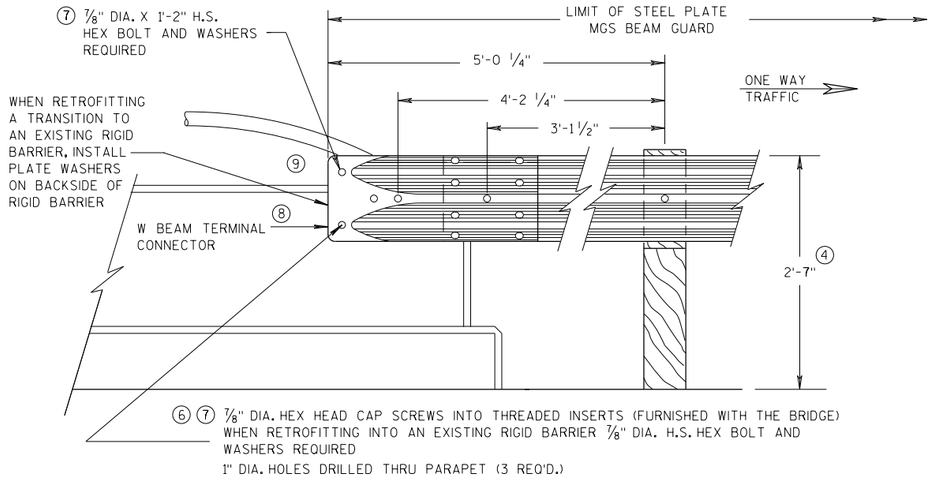
SECTION G-G



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor
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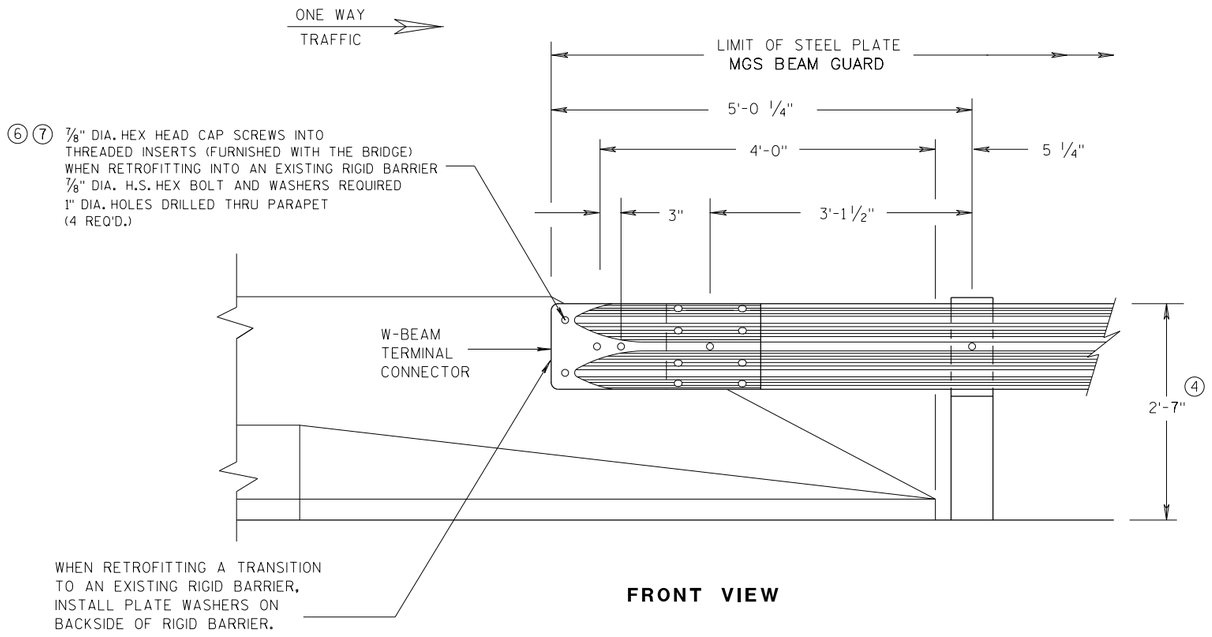


FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

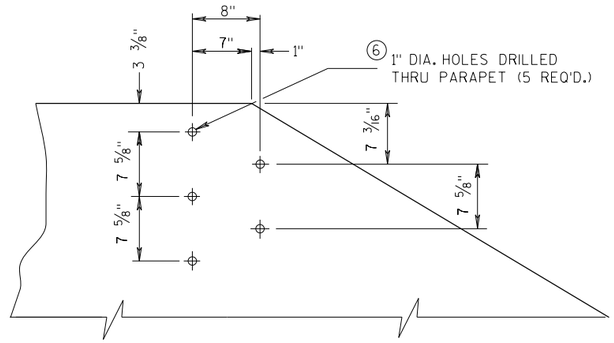
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

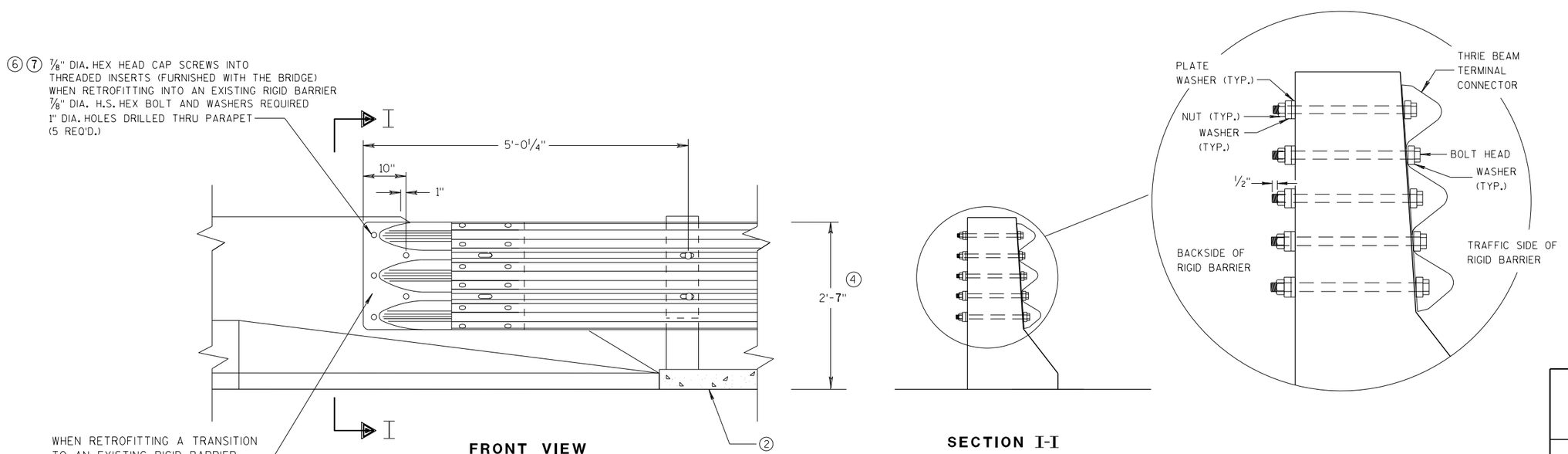
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW **SECTION I-I**

THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
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FHWA

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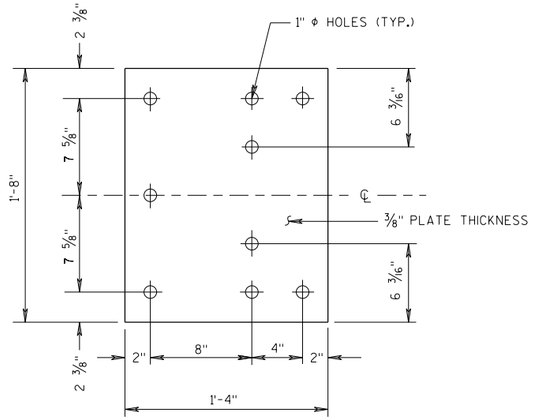
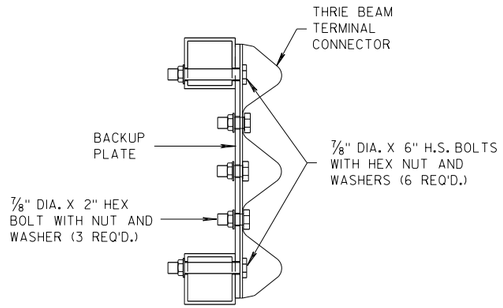
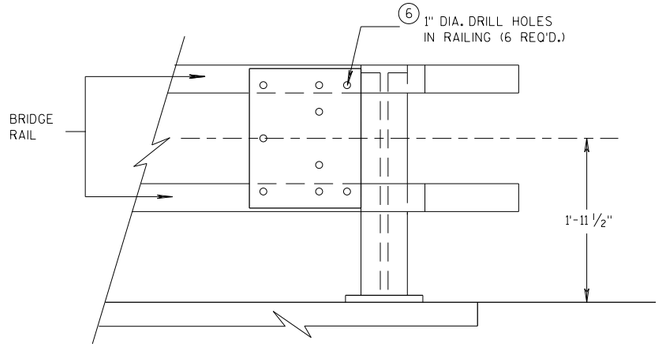
S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL



SECTION J-J

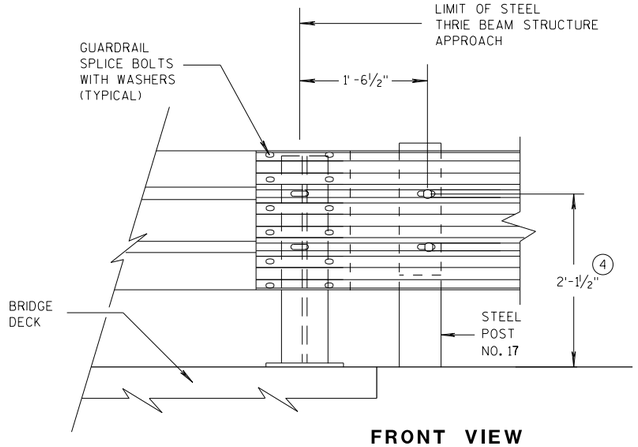


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

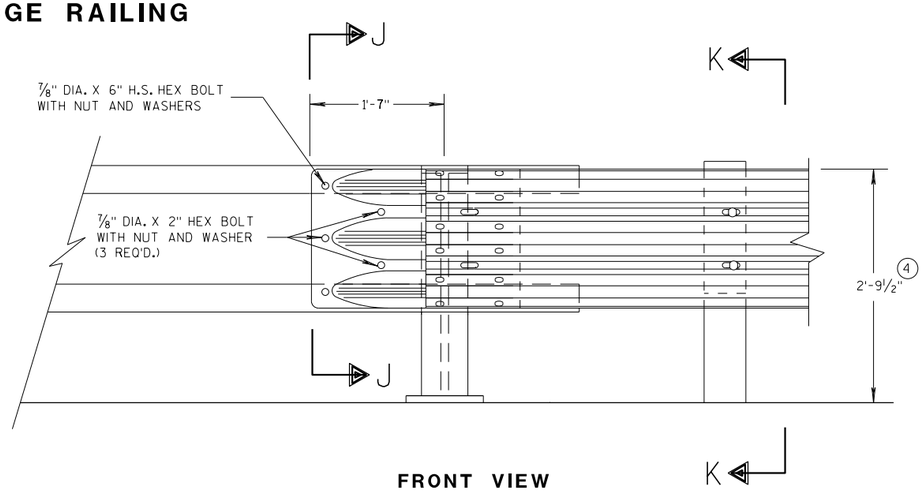
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

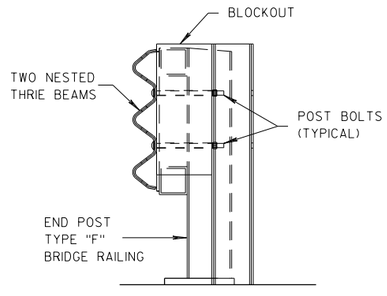


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018 — DATE
FHWA

/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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S.D.D. 14 B 45-5g

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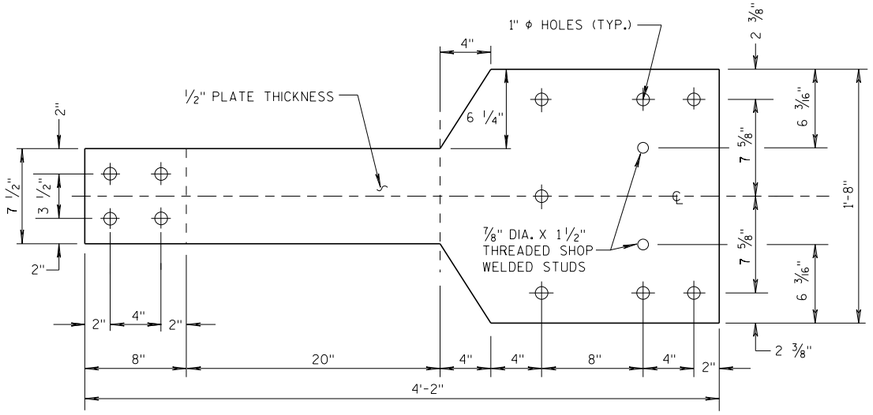
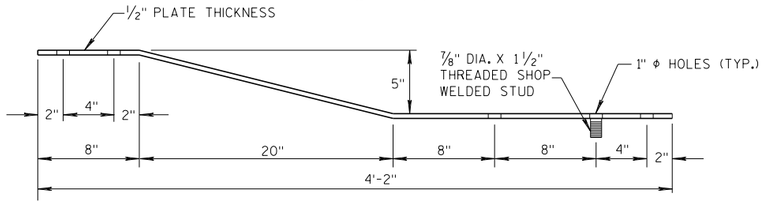
S.D.D. 14 B 45-5g

GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

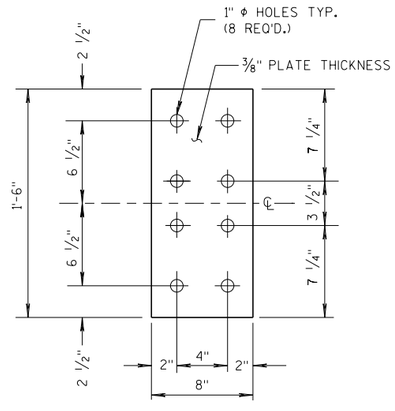


FRONT VIEW



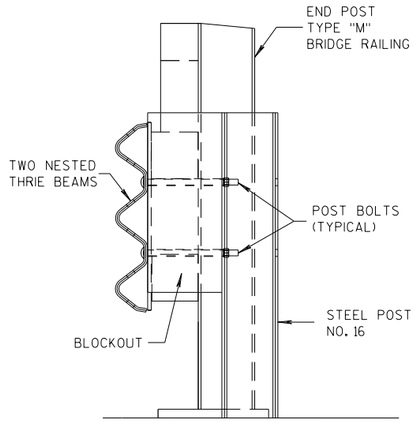
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

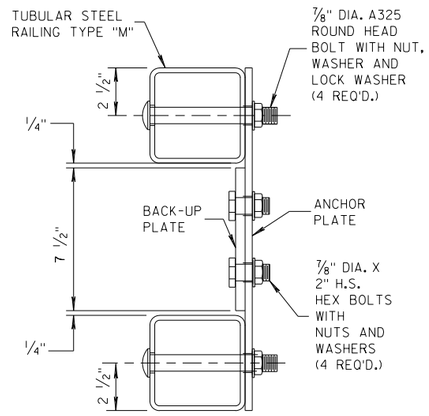


FRONT VIEW

ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M



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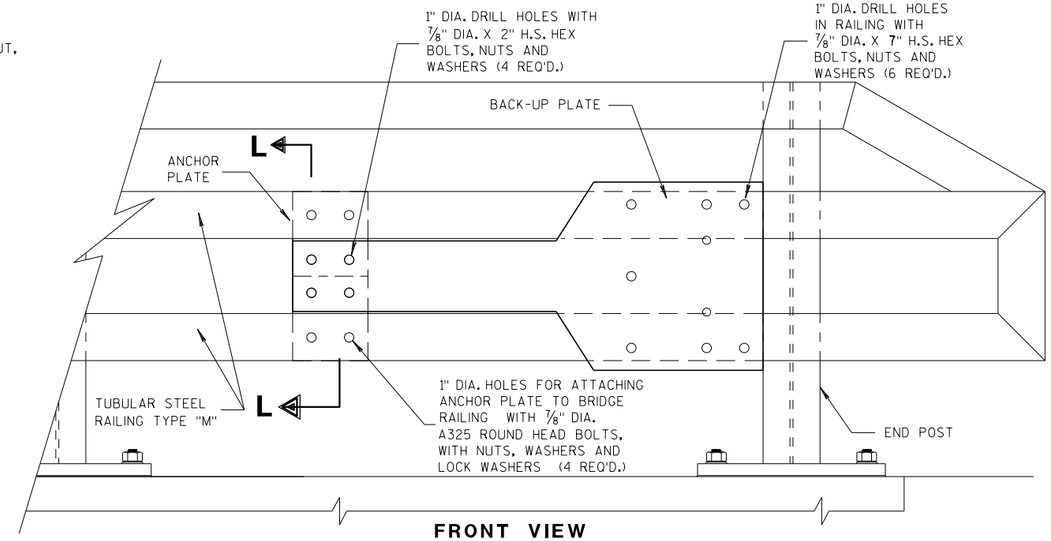
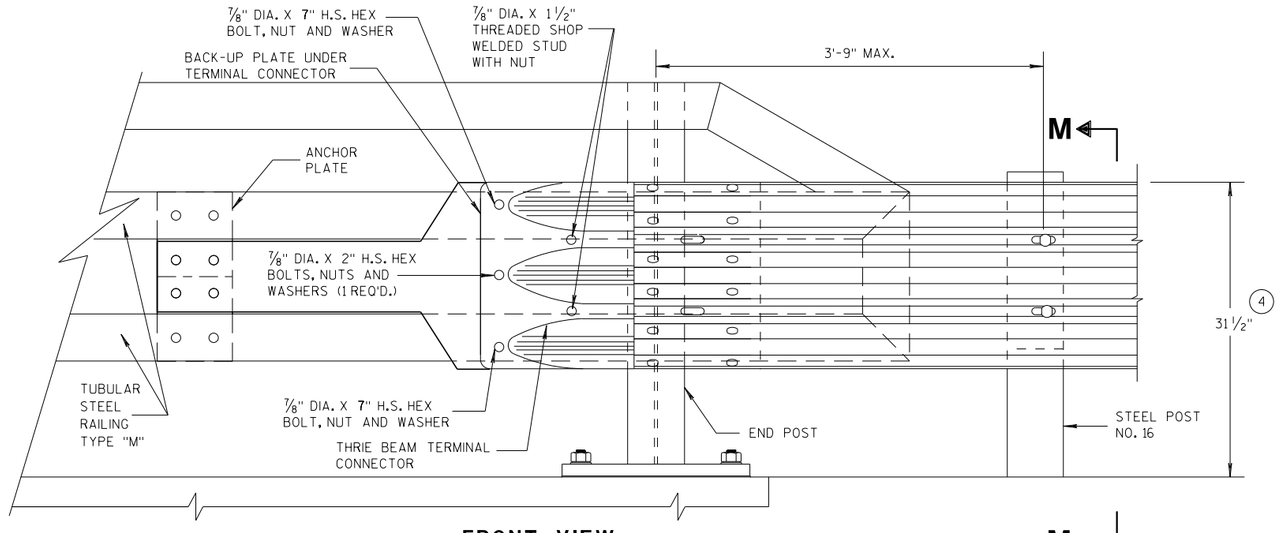
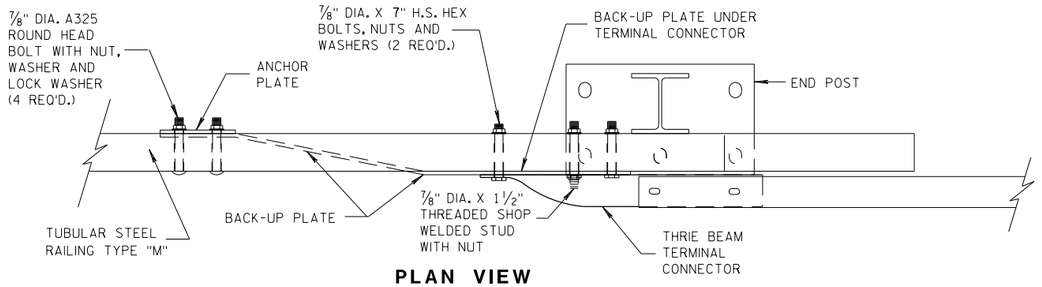


FRONT VIEW

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
FHWA

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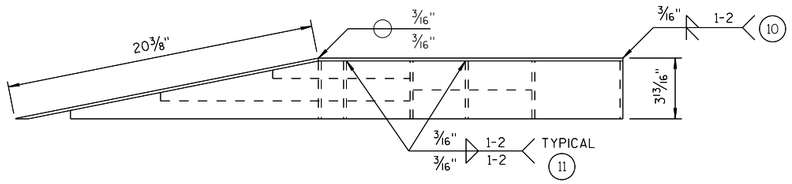
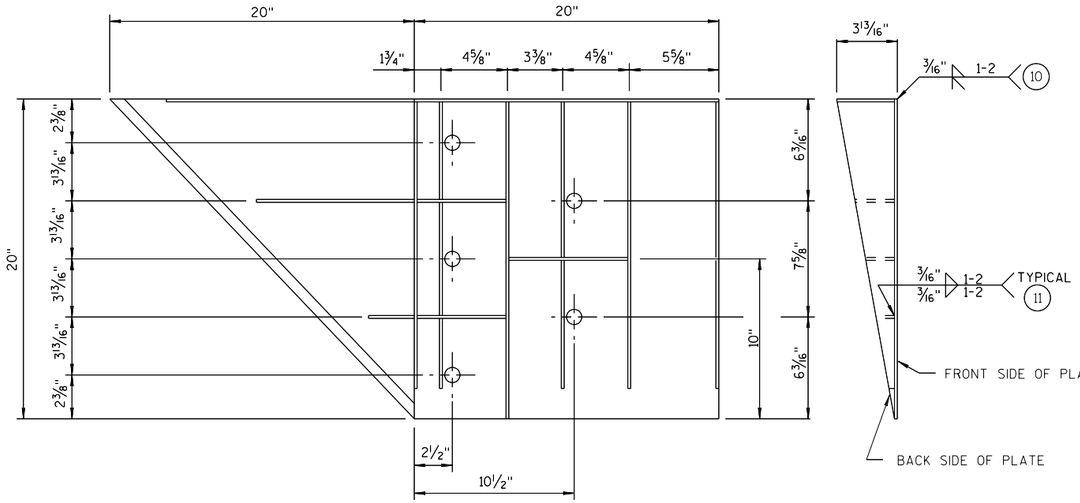
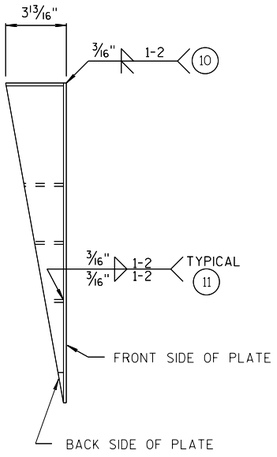
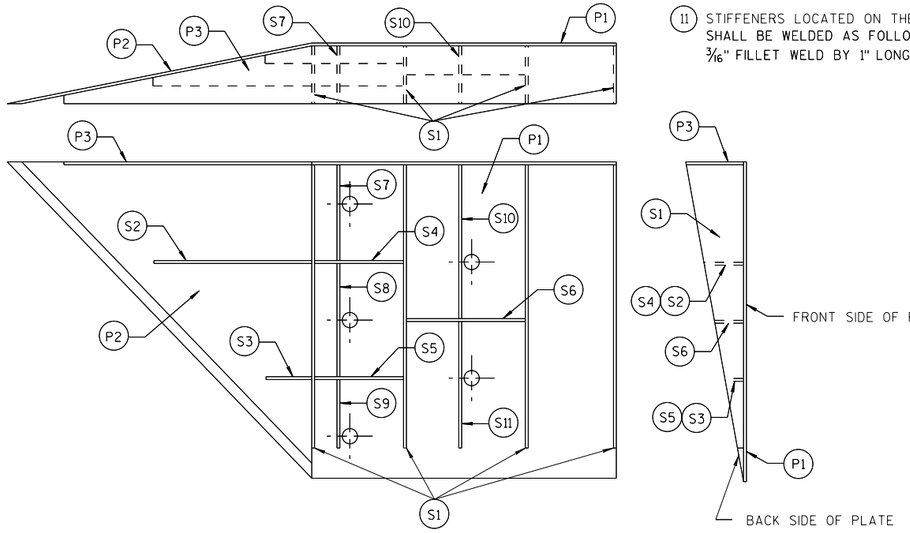




WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)





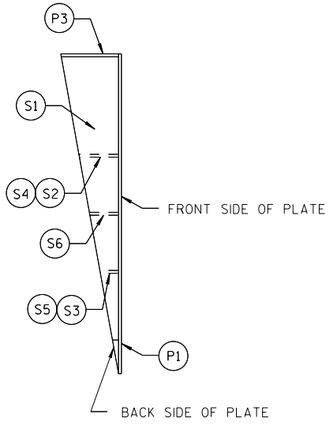


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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ROADWAY STANDARDS I
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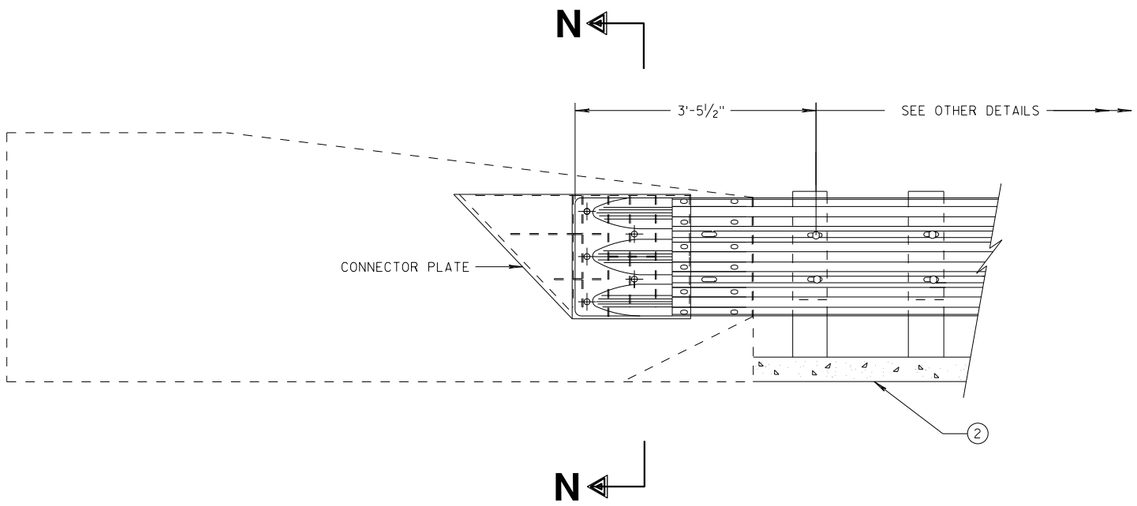
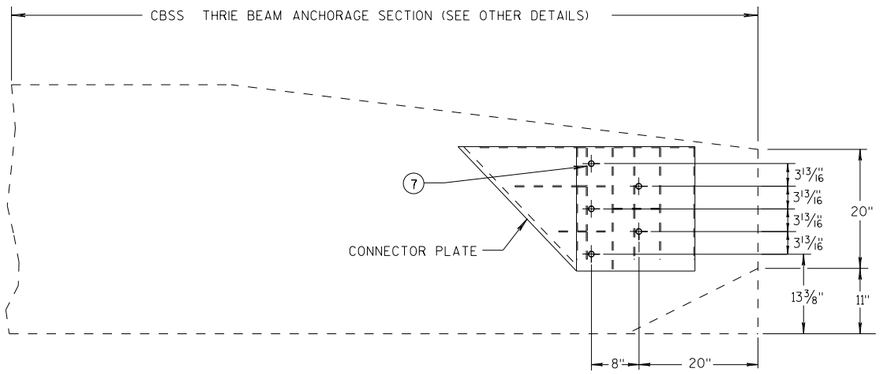


THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



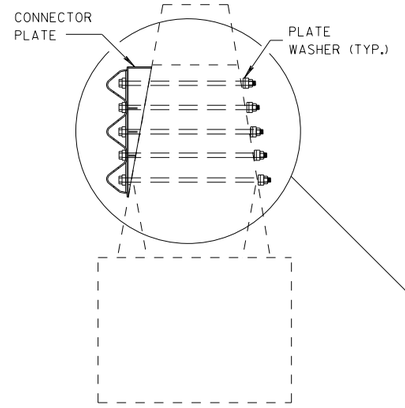
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

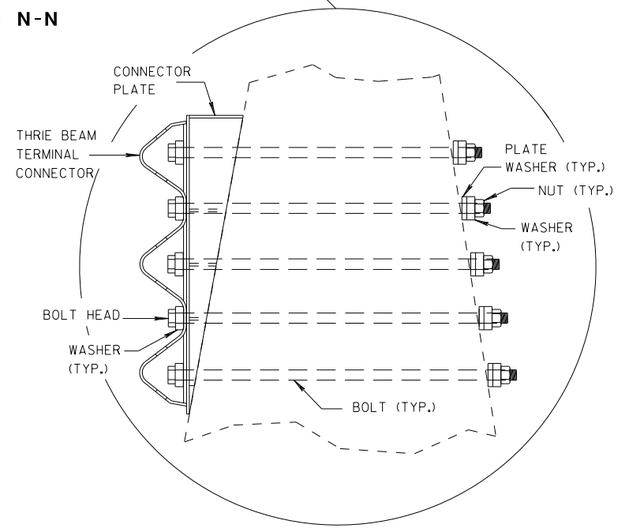
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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7/2018
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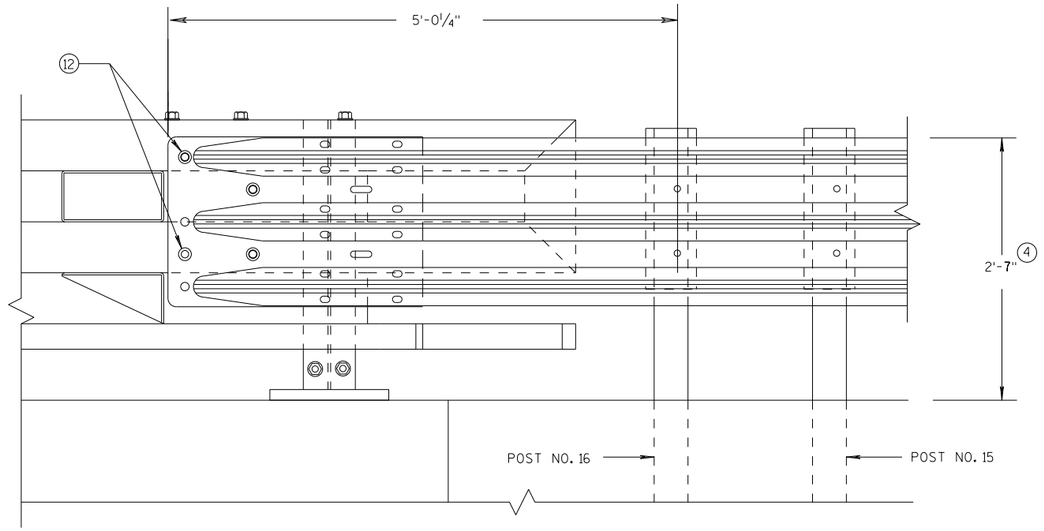
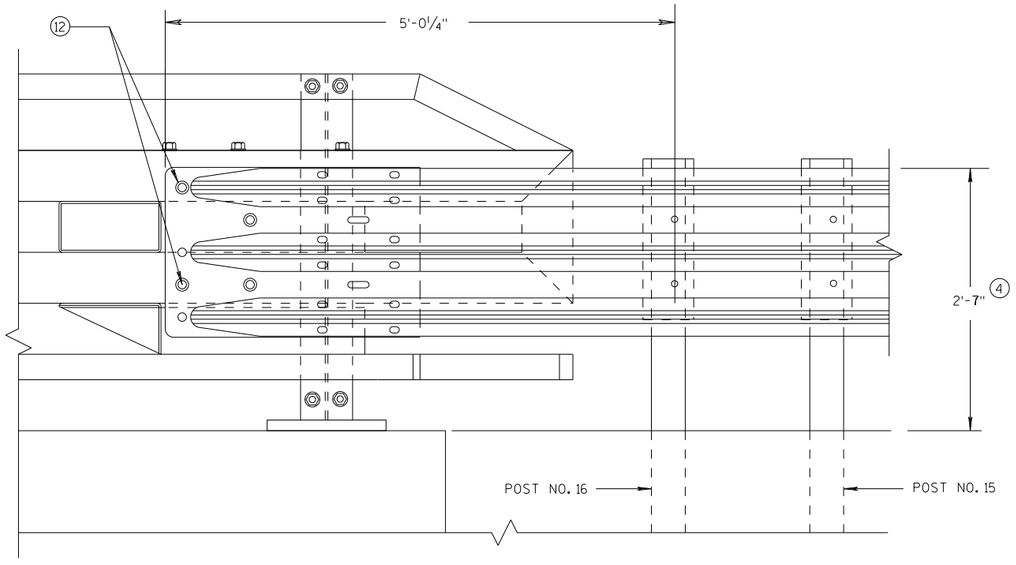


ELEVATION OF DETAIL AT NY3 END POST

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
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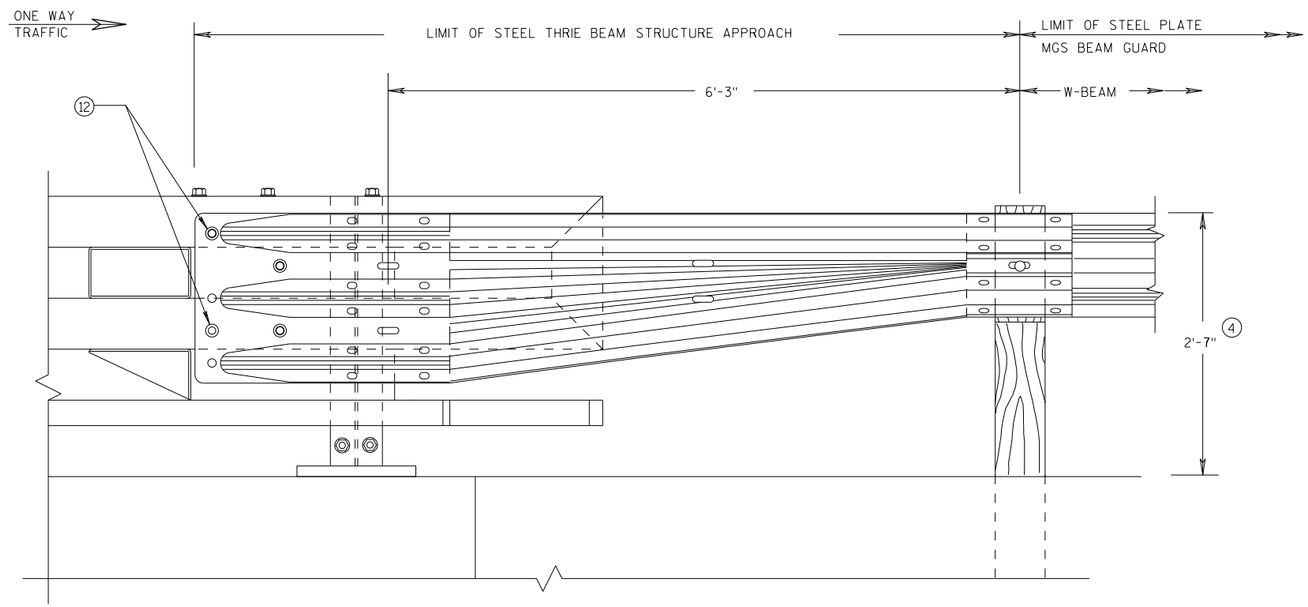


FRONT VIEW

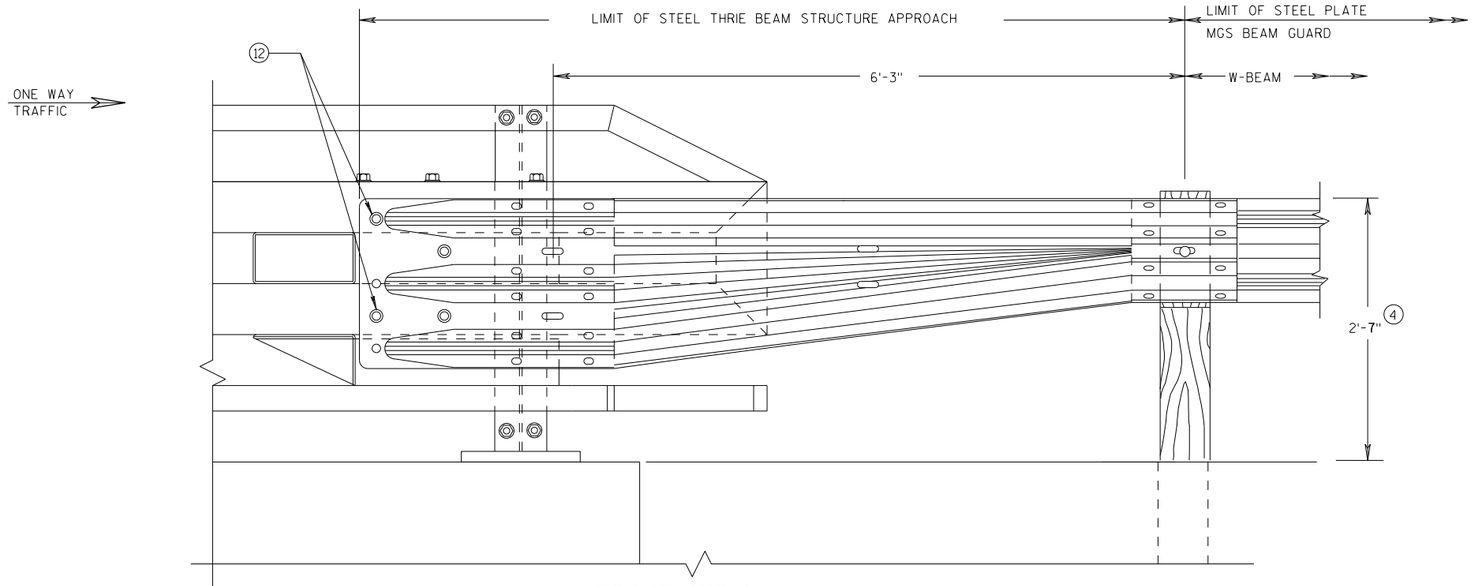
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(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)

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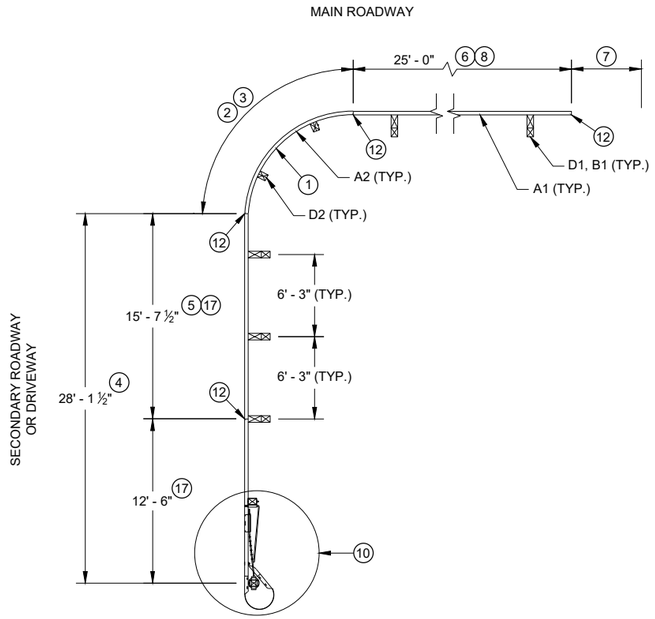
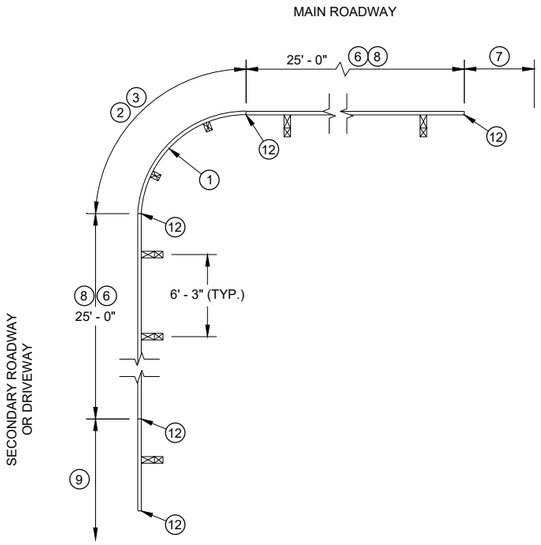


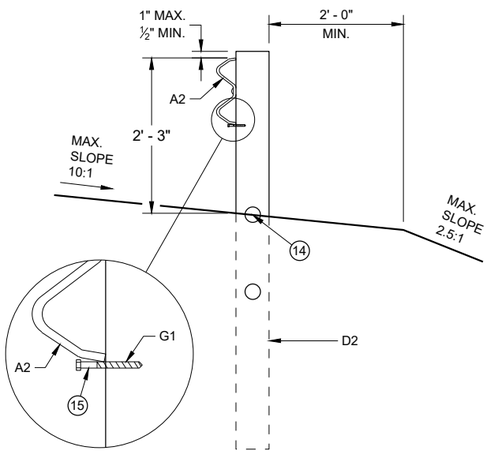
PLAN VIEW

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

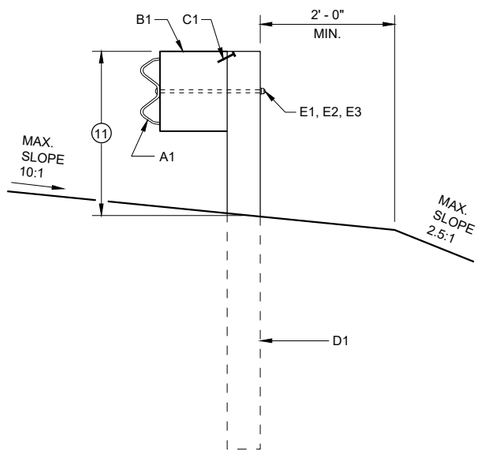


PLAN VIEW

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



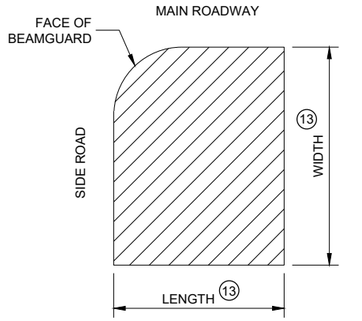
CONTROLLED RELEASE TERMINAL POST (CRT) IN RADIUS



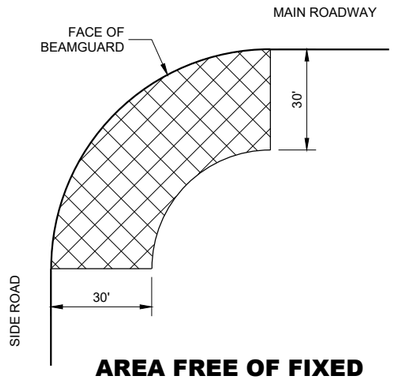
BEAM GUARD POSTS IN HEIGHT TRANSITION

TABLE FOR RADIUS OF 32' AND LESS

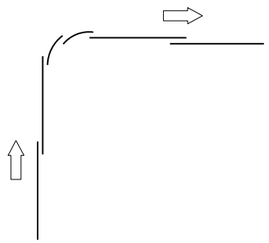
RADIUS (FT)	LENGTH (FT)	WIDTH (FT)
8	25	15
16	30	15
24	40	20
32	50	30



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



AREA FREE OF FIXED OBJECTS FOR RADIUS GREATER THAN 32'



LAP SPLICE DETAIL

GENERAL NOTES

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

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

GALVANIZE PARTS AFTER FABRICATION.

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

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

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

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

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

DRAWINGS ARE NOT TO SCALE.

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

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

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

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

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

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

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

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

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

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

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

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

(13) SEE TABLE FOR VALUES.

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

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

(16) SMALL SIGNS ON BREAKAWAY HARDWARE ARE ACCEPTABLE.

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

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

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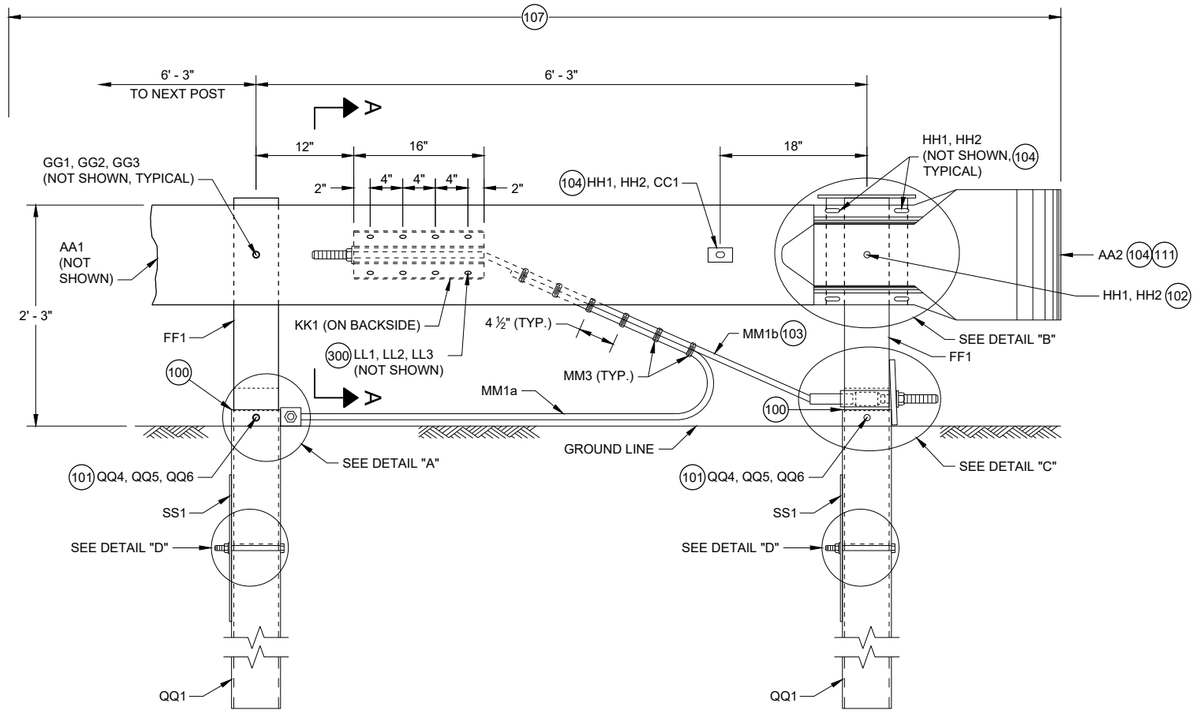
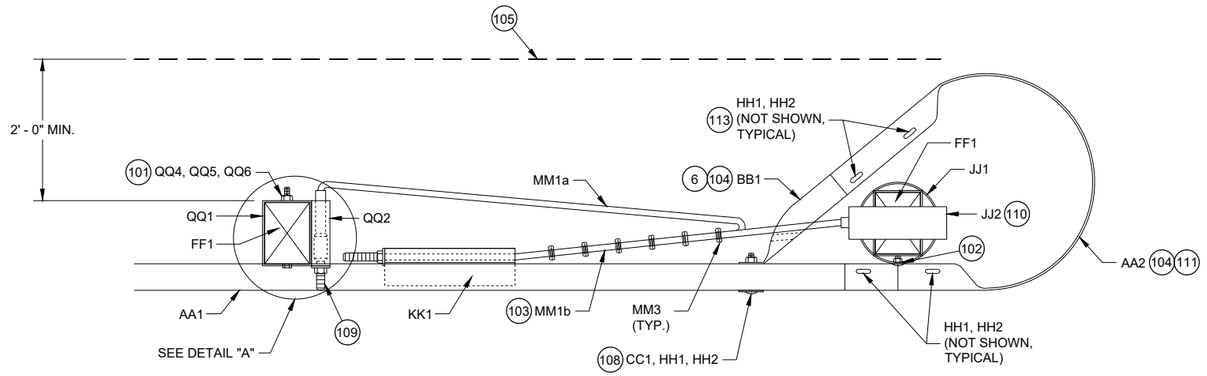
SDD 14B53 - 01a



PROFILE VIEW

SHORT RADIUS TERMINAL



TOP VIEW

SHORT RADIUS TERMINAL

GENERAL NOTES

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

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

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

103 CABLE IS TAUT.

104 ADJUST AA2 AND BB1 TO FIT.

105 BREAK POINT OF SHOULDER.

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

107 PAY LIMIT FOR BEAM GUARD.

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

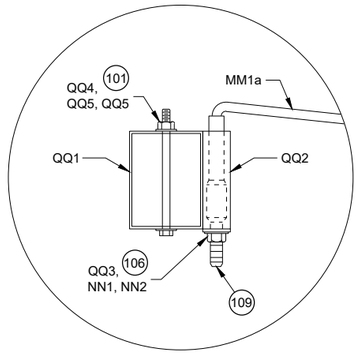
109 CUT OR PROVIDE THREADED STUD THAT IS FLUSH WITH FACE OF BEAM GUARD RAIL KK1 (PLUS OR MINUS ½" TOLERANCE). DEBURR AFTER CUTTING.

110 SEE STEEL PIPE ASSEMBLY DETAILS.

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

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

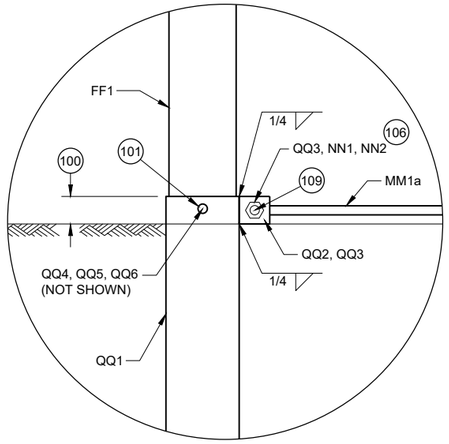
113 FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA2 TO BB1.



TOP VIEW

DETAIL "A"

(WOOD BREAKAWAY AND BEAM GUARD RAIL POSTS NOT SHOWN)



PROFILE VIEW

DETAIL "A"

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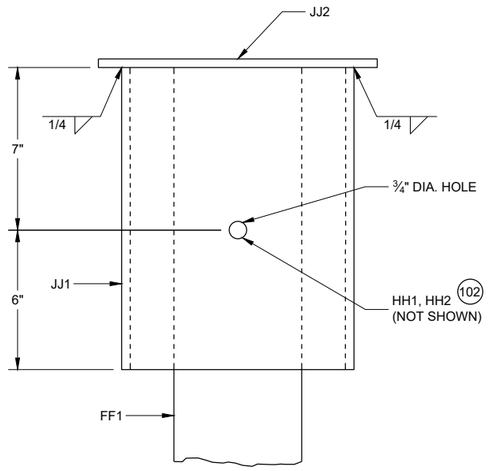
SDD 14B53 - 01b

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

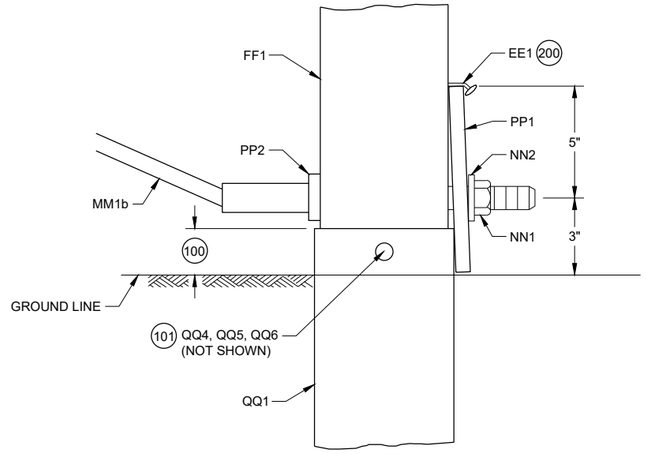
GENERAL NOTES

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



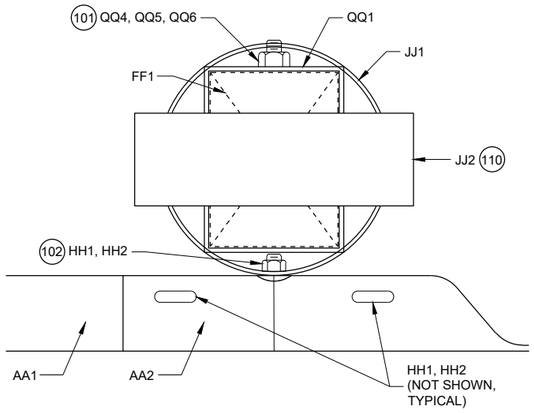
PROFILE VIEW

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



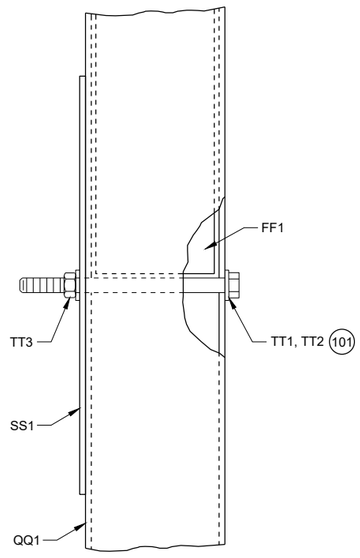
PROFILE VIEW

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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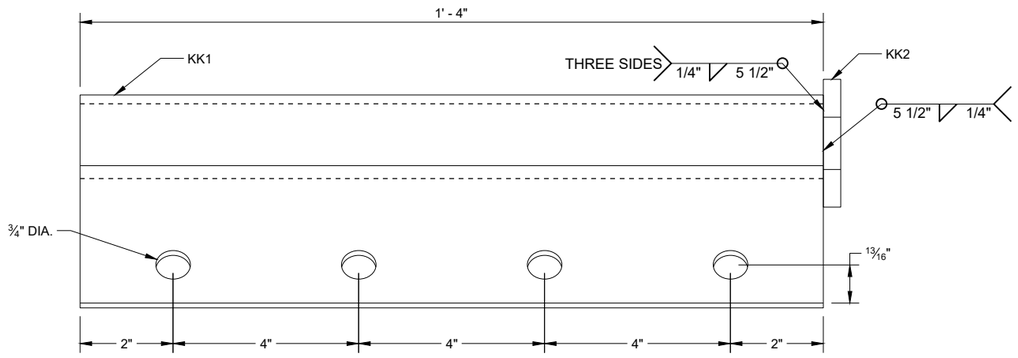
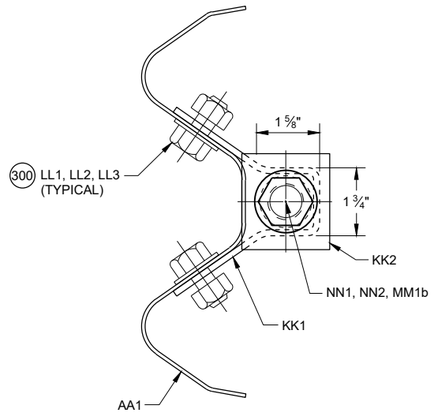
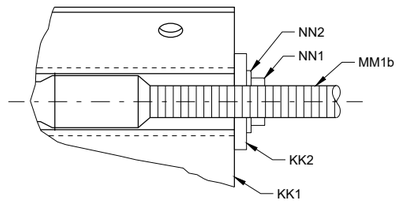
GENERAL NOTES

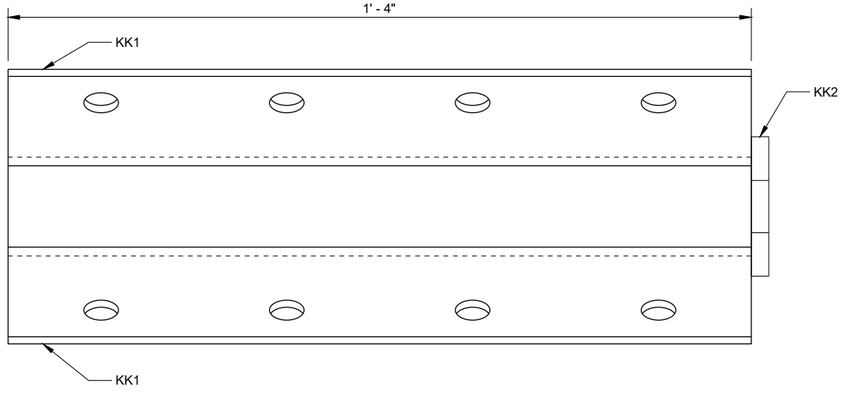
(300) WASHERS REQUIRED BETWEEN BOLT HEAD AND BEAM GUARD RAIL AND BETWEEN NUT AND ANCHOR BRACKET. EIGHT (8) LL1 AND LL3 REQUIRED. SIXTEEN (16) LL2 REQUIRED.

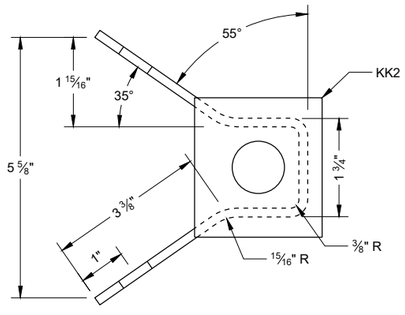




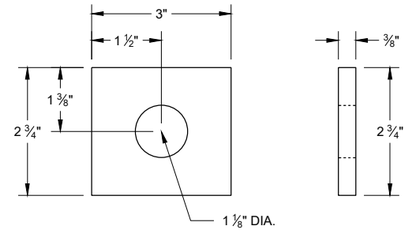


SECTION A - A





ANCHOR BRACKET (KK1, KK2)



ANCHOR BRACKET BEARING PLATE (KK2)

6

SDD 14B53 - 01d

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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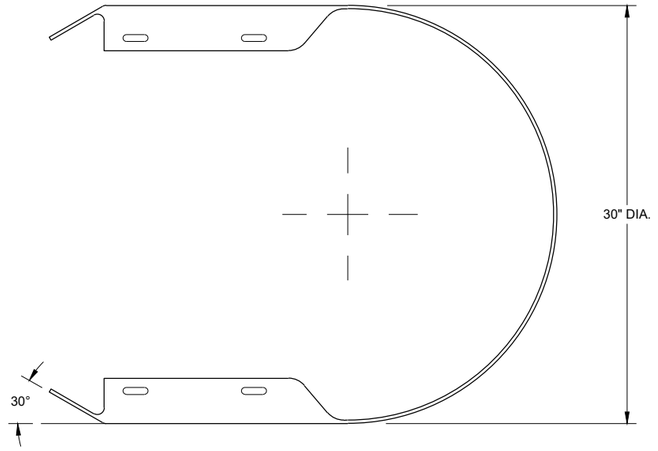
SDD 14B53 - 01d

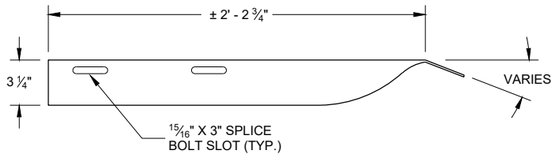
GENERAL NOTES

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

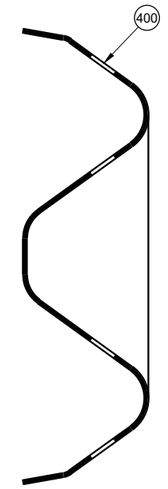
(401) CROSS SECTION OF PART IS TO FIT OVER OR UNDER AA1 .



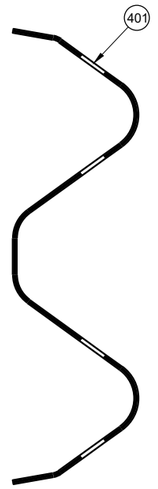
TOP VIEW



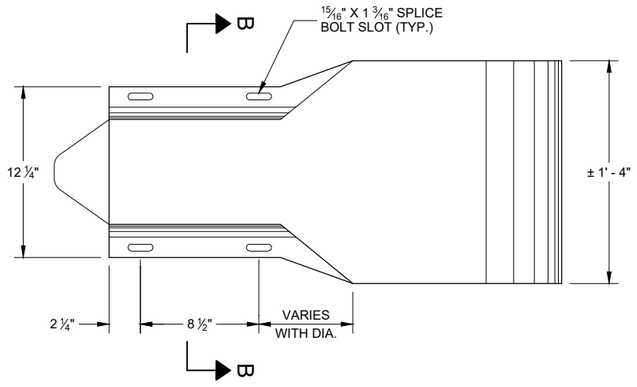
TOP VIEW



SECTION B -B

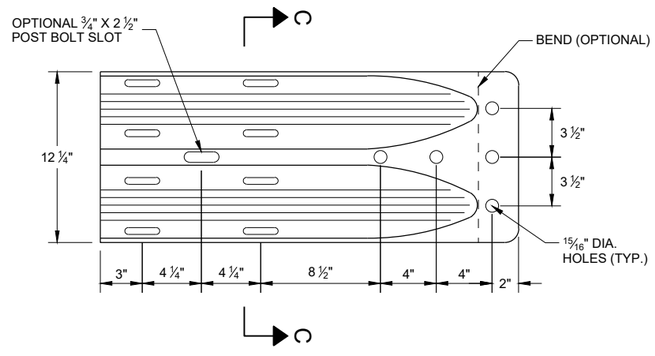


SECTION C -C



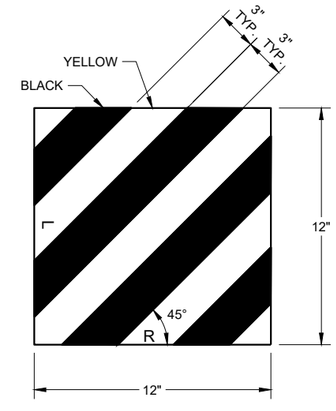
PROFILE VIEW

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 TRANSPORTA

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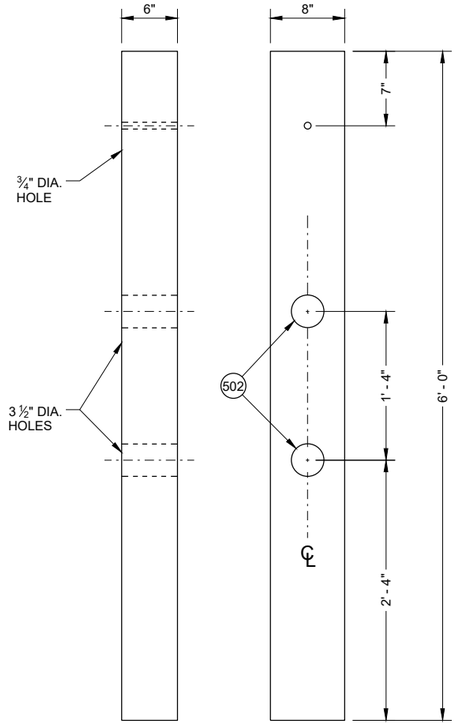
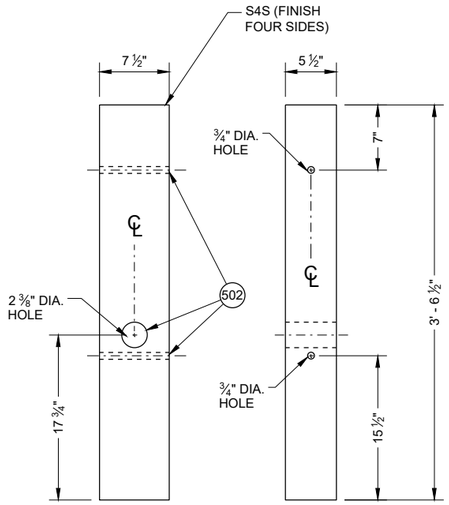
SDD 14B53 - 01e



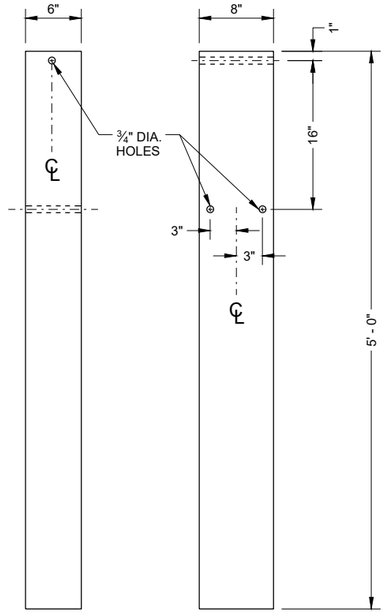
FRONT VIEW SIDE VIEW

CONTROLLED RELEASE POST (CRT) (DD2)



FRONT VIEW SIDE VIEW

WOOD BREAKAWAY POST (FF1)



FRONT VIEW SIDE VIEW

FOUNDATION TUBE (QQ1) (500)

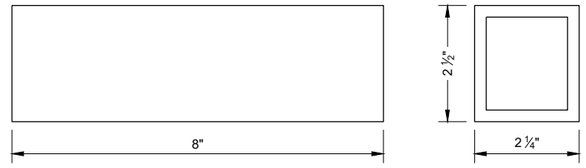
GENERAL NOTES

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

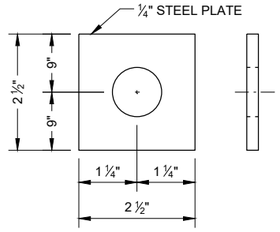
(501) FOR MM1a THREADED STUD ONLY REQUIRED ON ONE END. SWAGED FITTING REQUIRED.

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

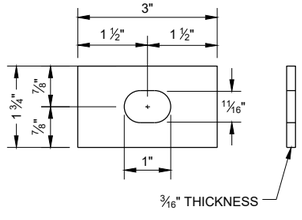
(503) MM1a MAY HAVE ONE THREADED STUD 4 INCHES LONG. SEE NOTE (109).



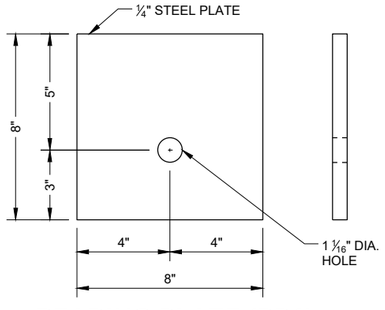
FOUNDATION TUBE - ANCHOR CABLE TUBE (QQ2)



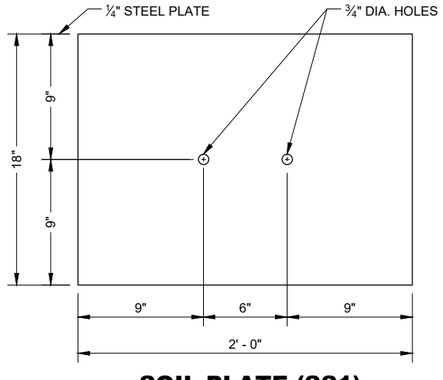
ANCHOR CABLE TUBE END PLATE (QQ3)



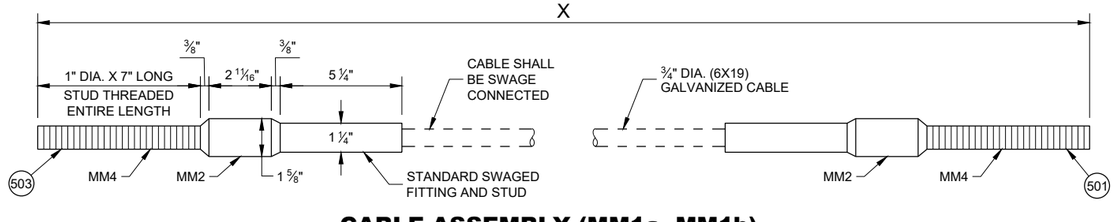
RECTANGULAR PLATE WASHER (CC1)



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 TRANSPORTAT 196

SDD 14B53 - 01f

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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)

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SDD 14B53 - 01g

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
GG3	POST BOLT - NUT	ASTM A563 GRADE A	⅜" 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	⅜" 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	⅜" 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 ⅜" 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	⅝" 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	
LL2	ANCHOR BRACKET - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	⅝" 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	⅝" 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	¾"
		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)

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	

6

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SDD 14B53 - 01i

SDD 14B53 - 01i

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

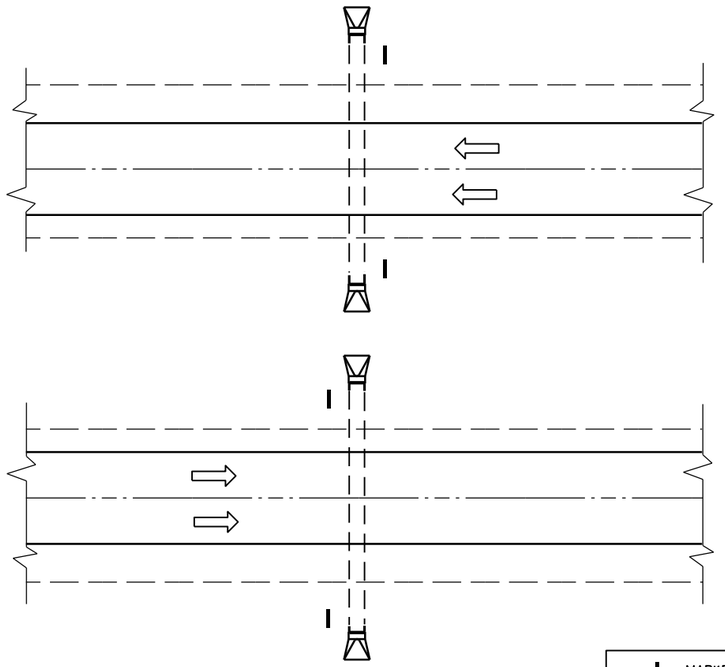
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

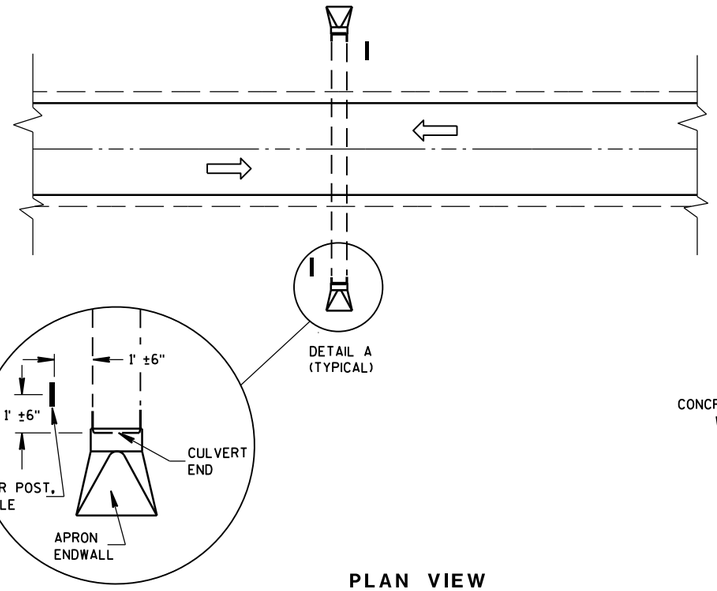
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

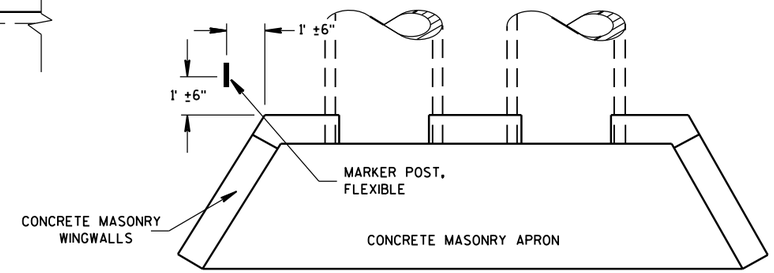
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

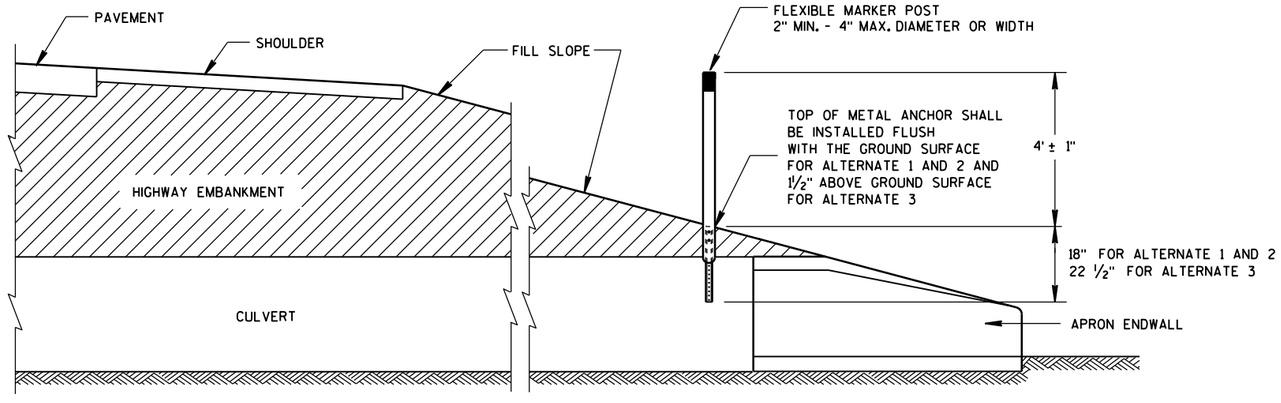
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

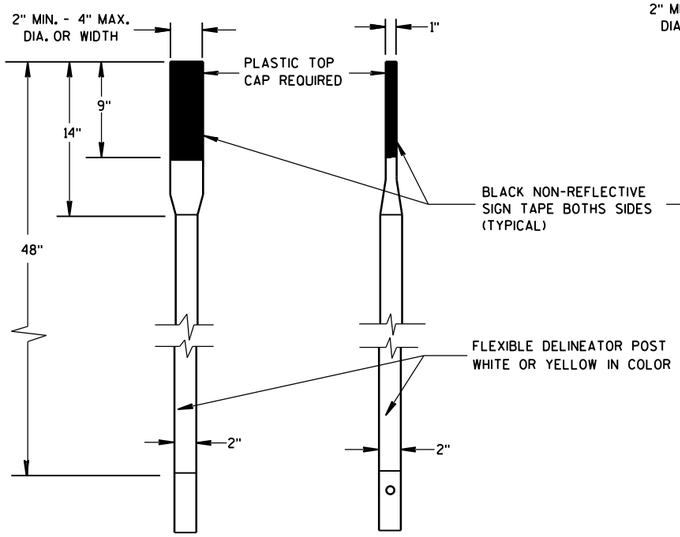
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

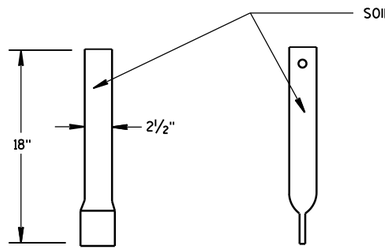
6

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

6

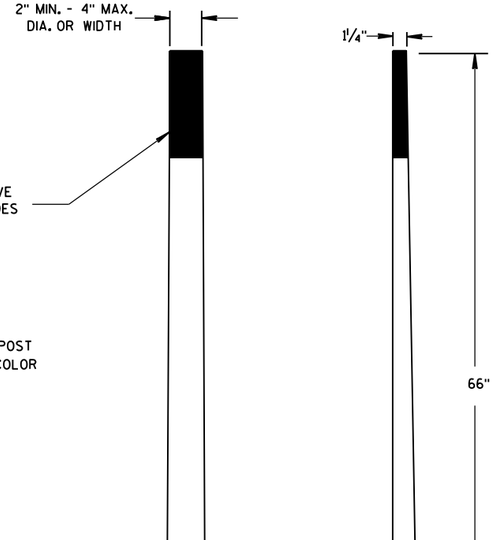
S.D.D. 15 A 3-2a





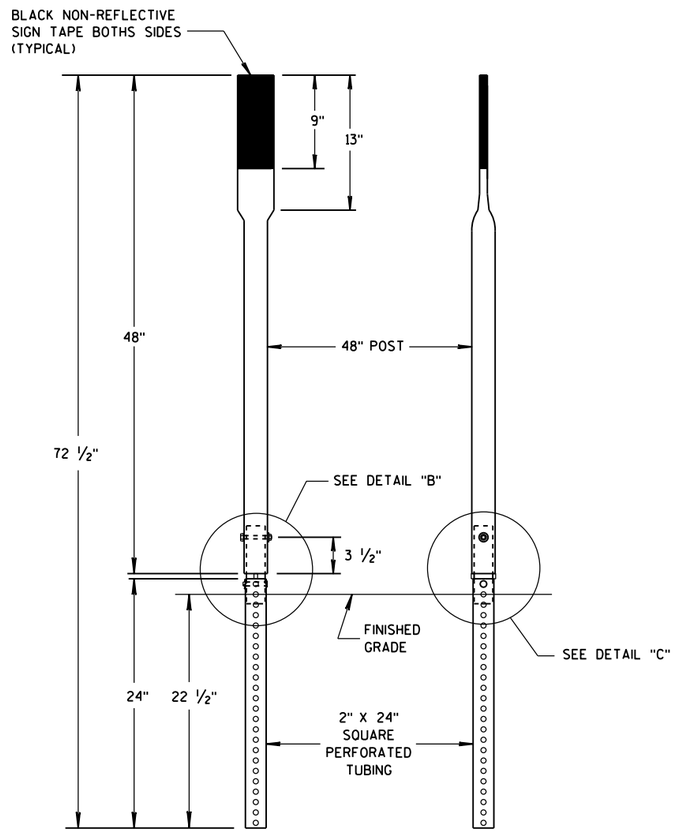
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

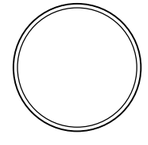
ALTERNATE 2



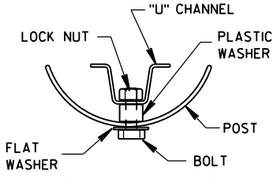
FRONT VIEW SIDE VIEW

ALTERNATE 3

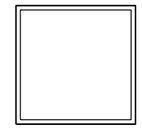
FLEXIBLE MARKER POSTS



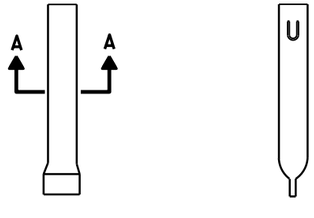
SECTION A-A



SECTION B-B

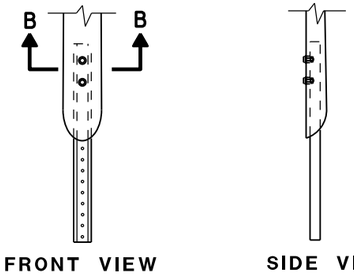


SECTION C-C



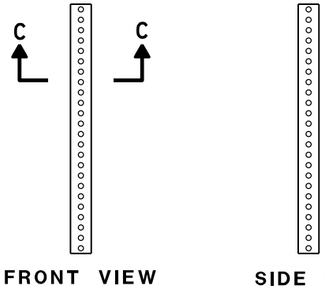
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

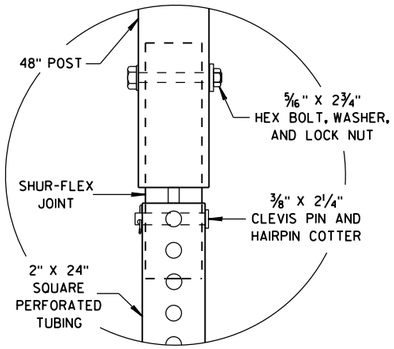
ALTERNATE 2



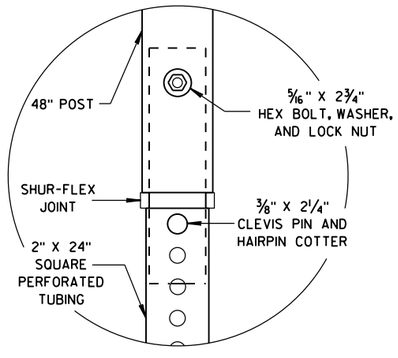
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

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

6

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

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.

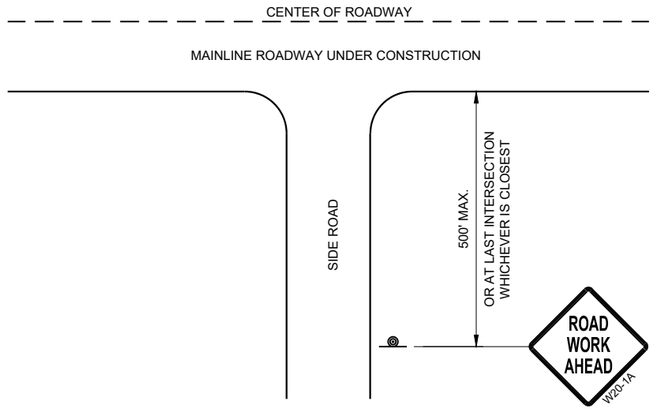
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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.



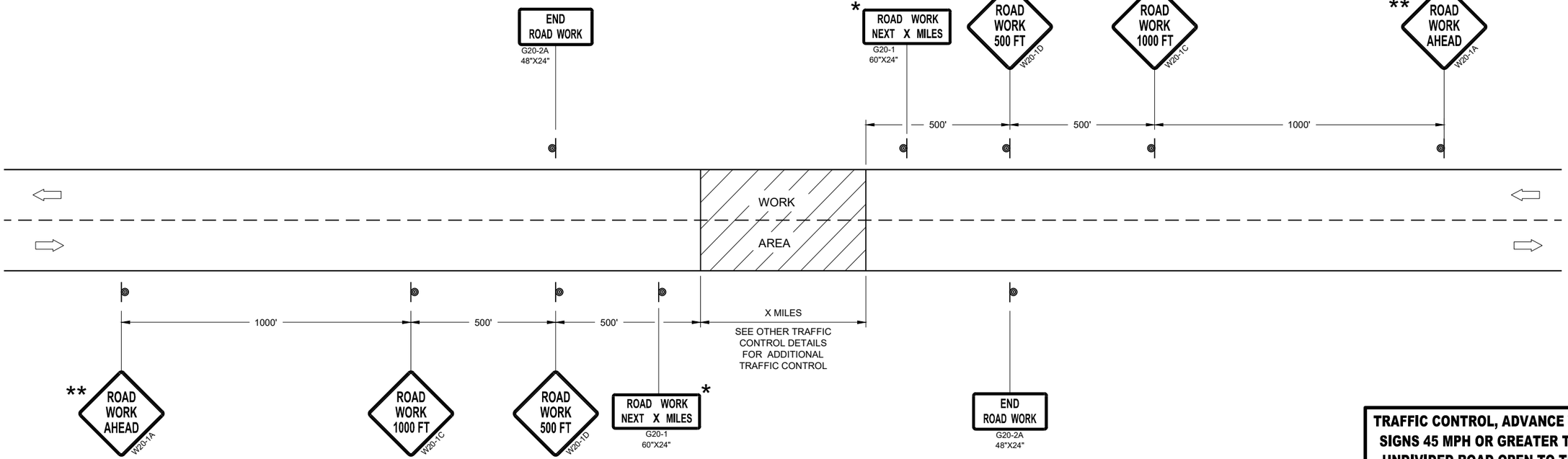
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

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 TRAFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C04 - 05

GENERAL NOTES

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

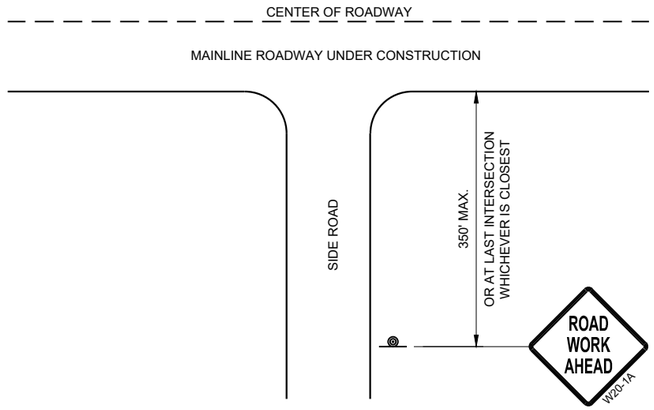
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



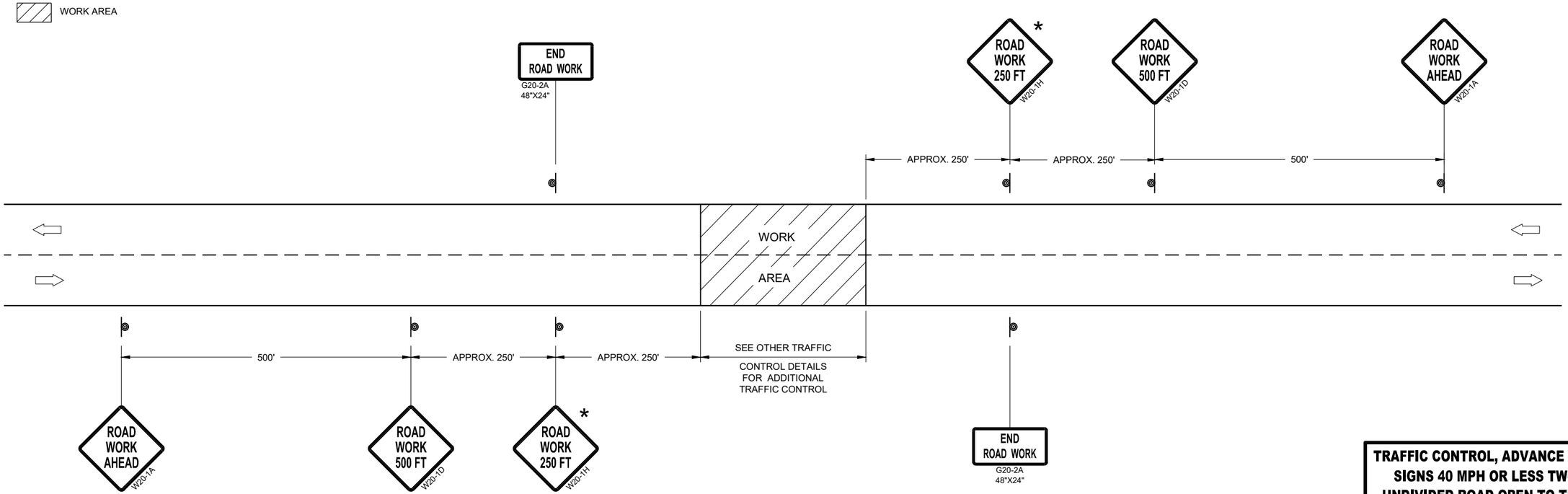
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

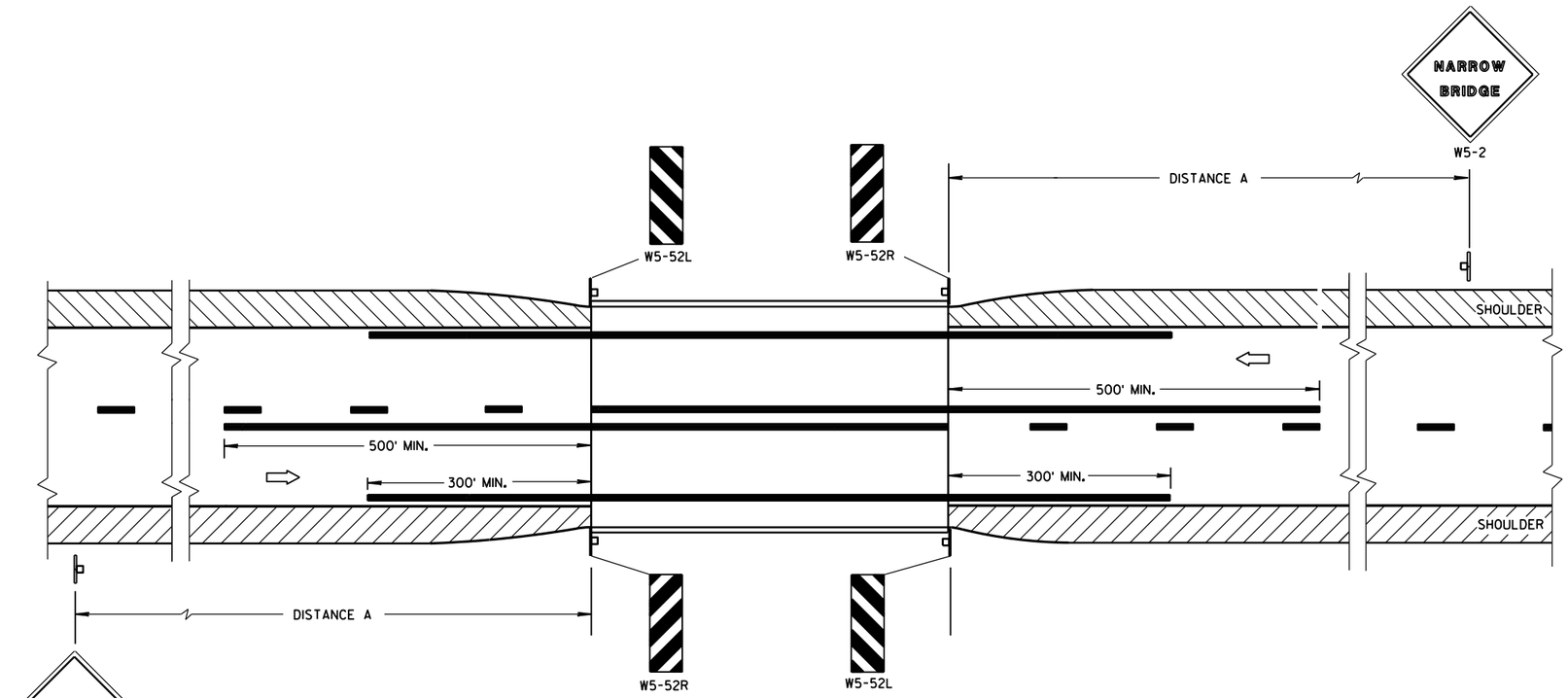
APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C05 - 05



NARROW BRIDGE
W5-2

SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

GENERAL NOTES

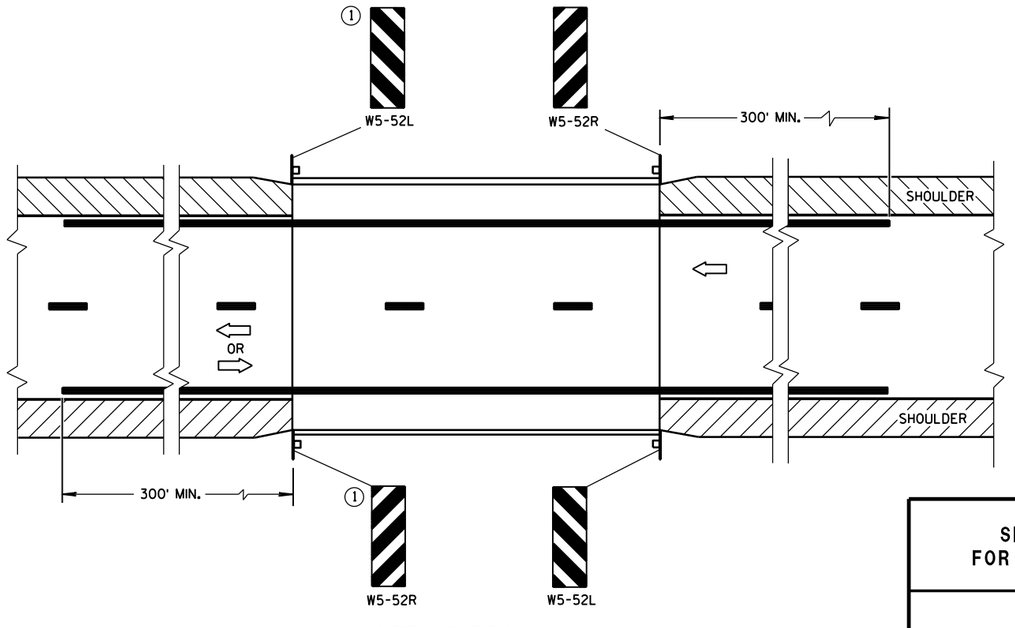
DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

(1) OMIT ON ONE-WAY TRAVELLED WAYS.

⇨ DIRECTION OF TRAFFIC



SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

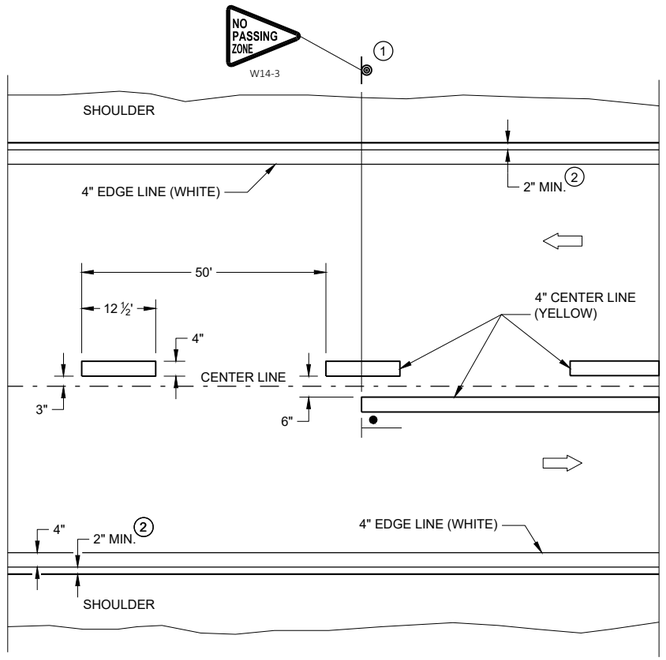
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6

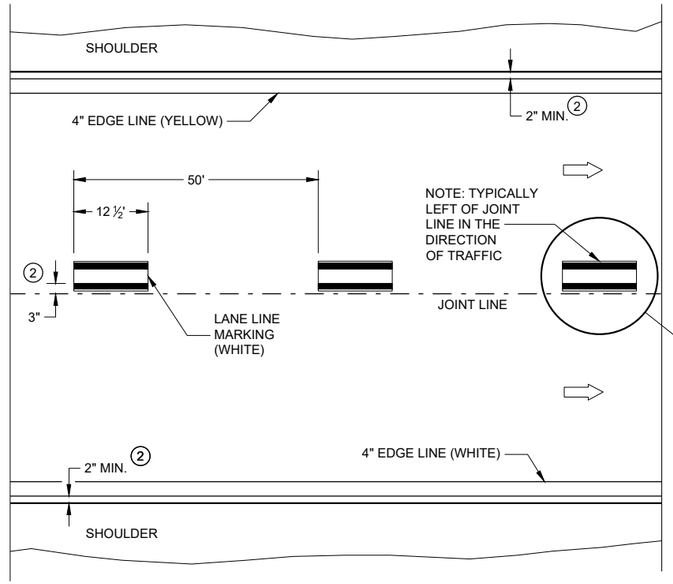
S.D.D. 15 C 6-9

6

S.D.D. 15 C 6-9

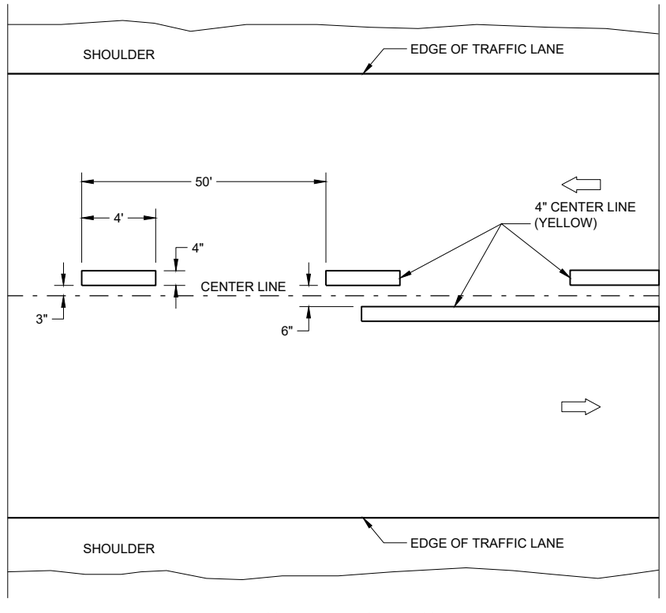


TWO WAY TRAFFIC

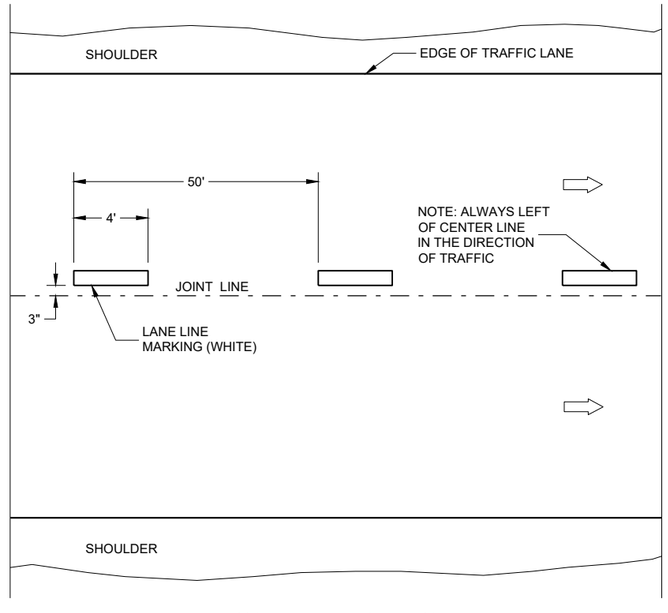


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

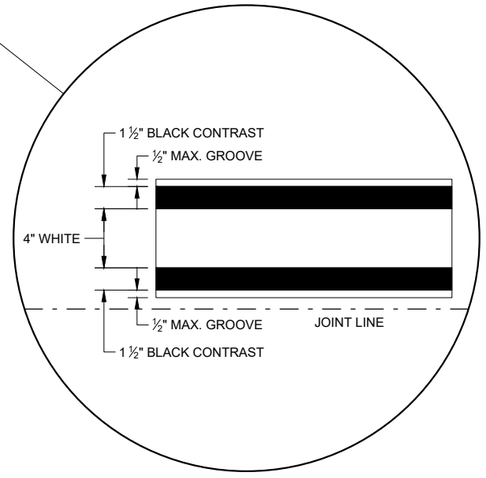
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Matthew Rauch
STATEWIDE SIGNING AND M ENGINEER

FHWA

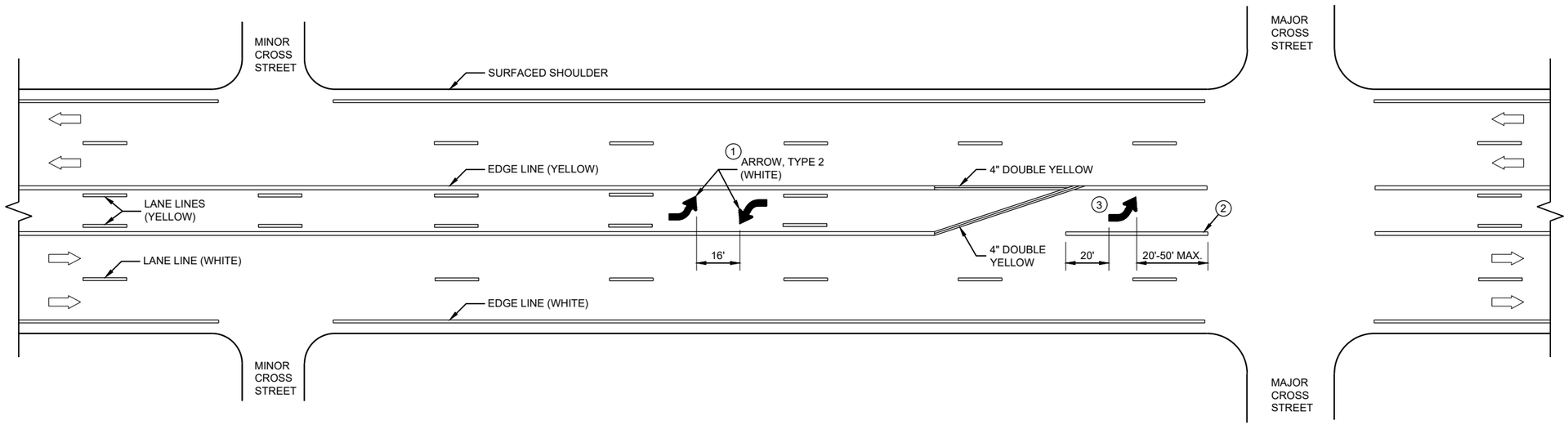
SDD 15C08 - 20a

SDD 15C08 - 20a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

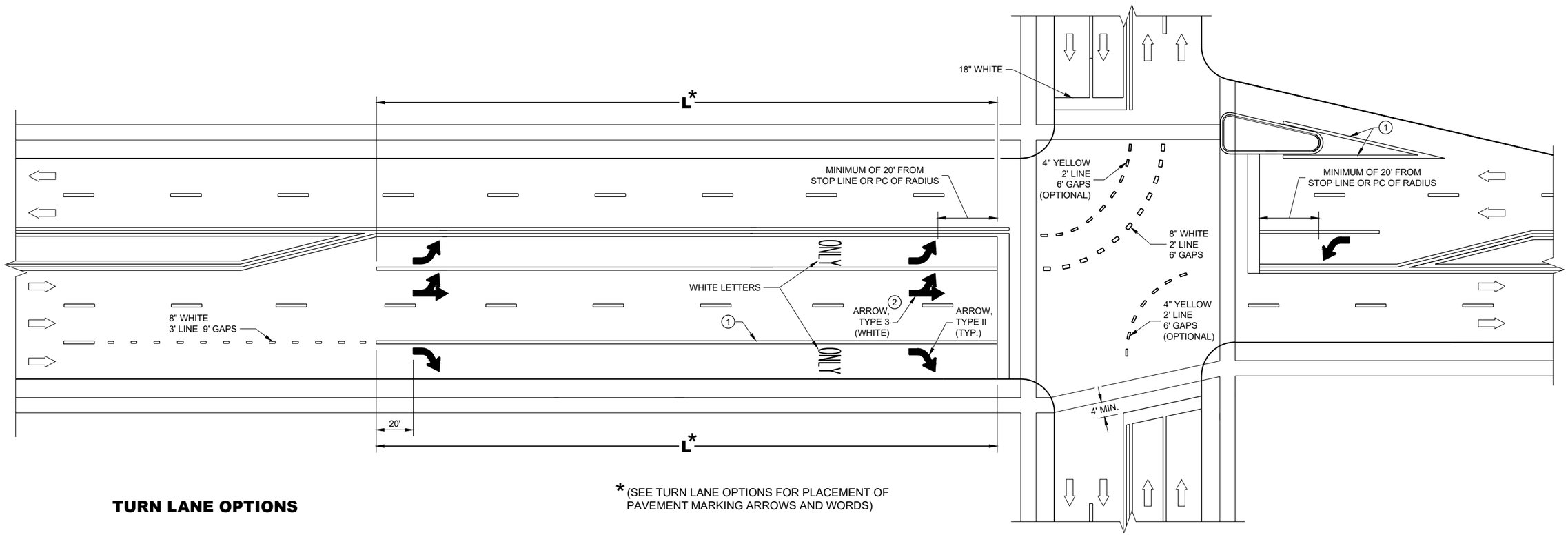
6

SDD 15C08 - 20b

SDD 15C08 - 20b

PAVEMENT MARKING (TURN LANES)

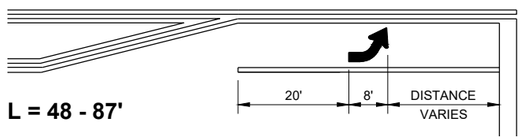
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



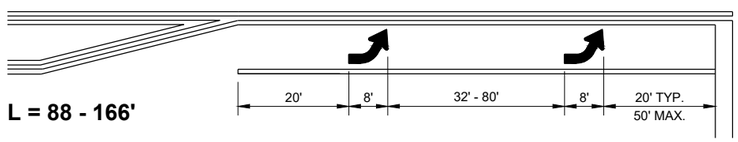
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

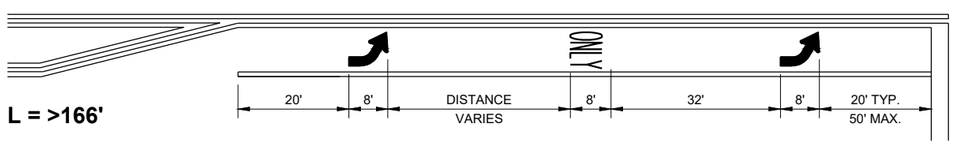
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

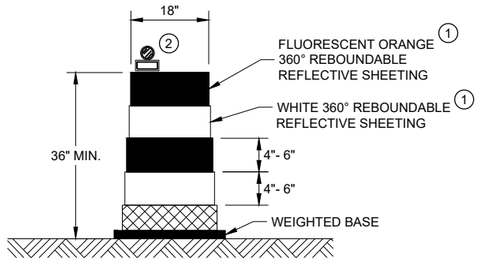
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

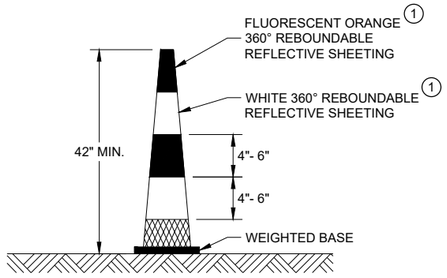
SDD 15C08 - 20c

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

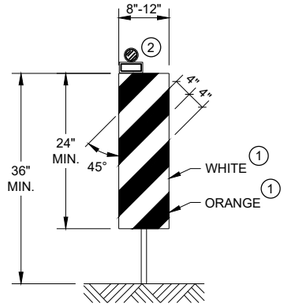


DRUM



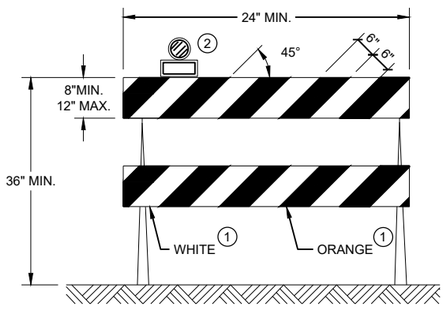
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



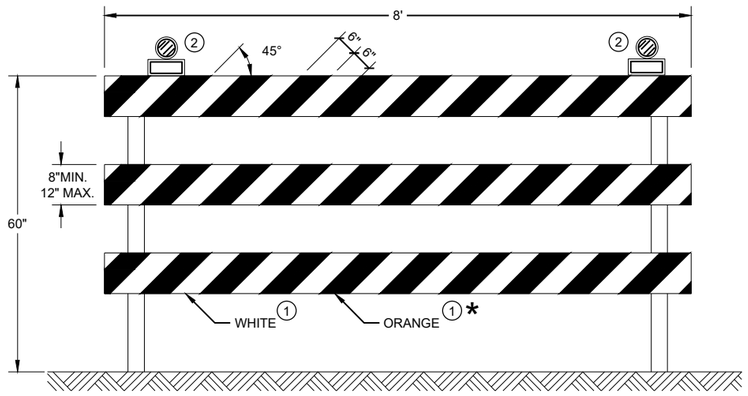
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C11 - 07b

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SDD 15C11 - 07b

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.

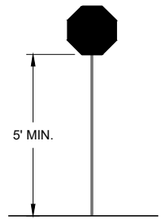
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR 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.



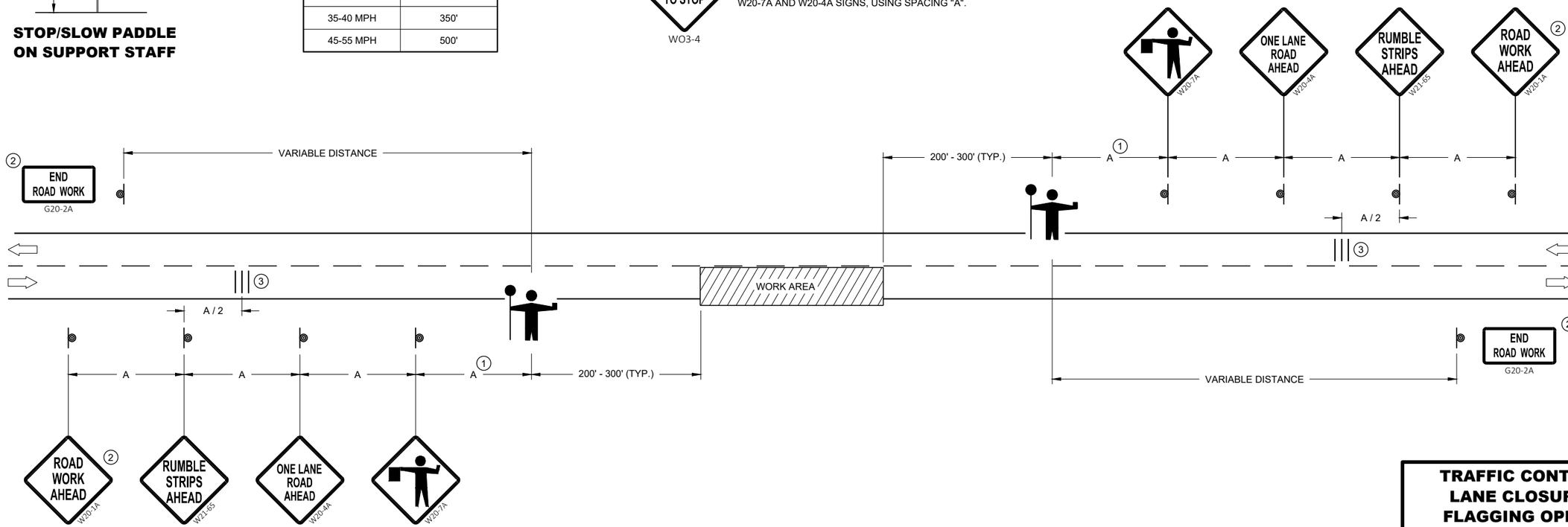
STOP/SLOW PADDLE ON SUPPORT STAFF

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

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE FHWA	/S/ Andrew Heidtke WORK ZONE ENGINEER

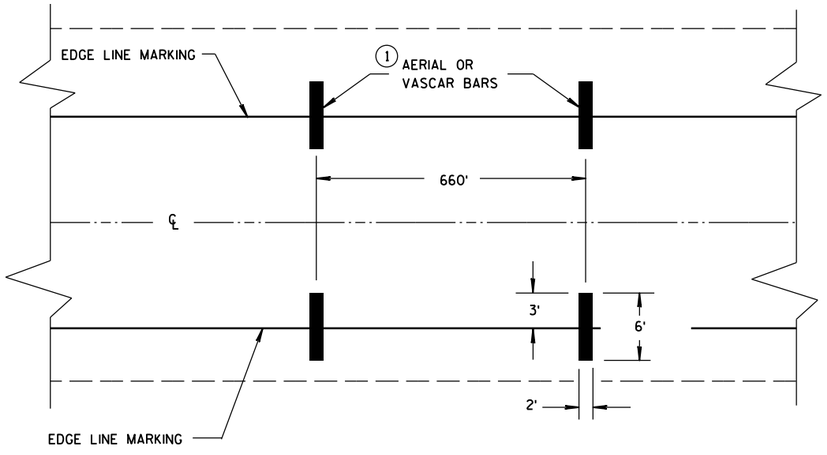
SDD 15C12 - 07

SDD 15C12 - 07

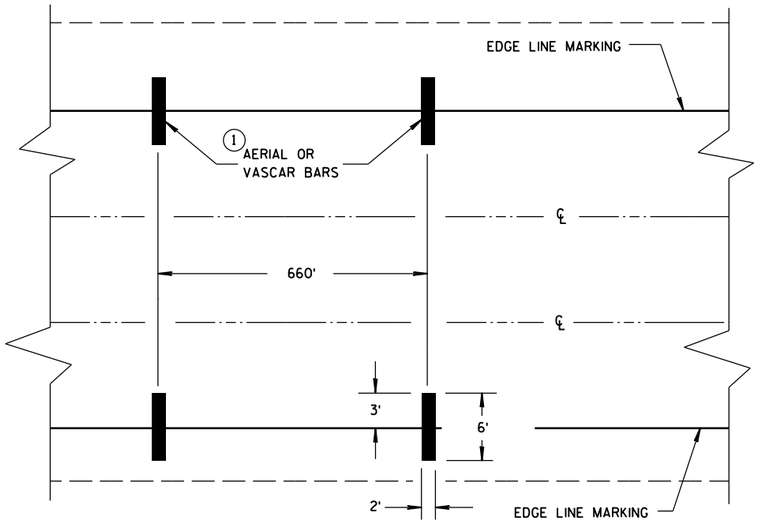
GENERAL NOTES

(1) PLACE TWO TO FIVE AERIAL OR VASCAR BARS AT 660 FOOT SPACING.

A CAR CAN BE PROVIDED BY THE WISCONSIN STATE PATROL FOR TRAFFIC CONTROL.



TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC



TYPICAL FOR MULTILANE TRAFFIC

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

6

S.D.D. 15 C 14-3

AERIAL ENFORCEMENT BARS
PAVEMENT MARKING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MAR ENGINEER
FHWA

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S.D.D. 15 C 14-3

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

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

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

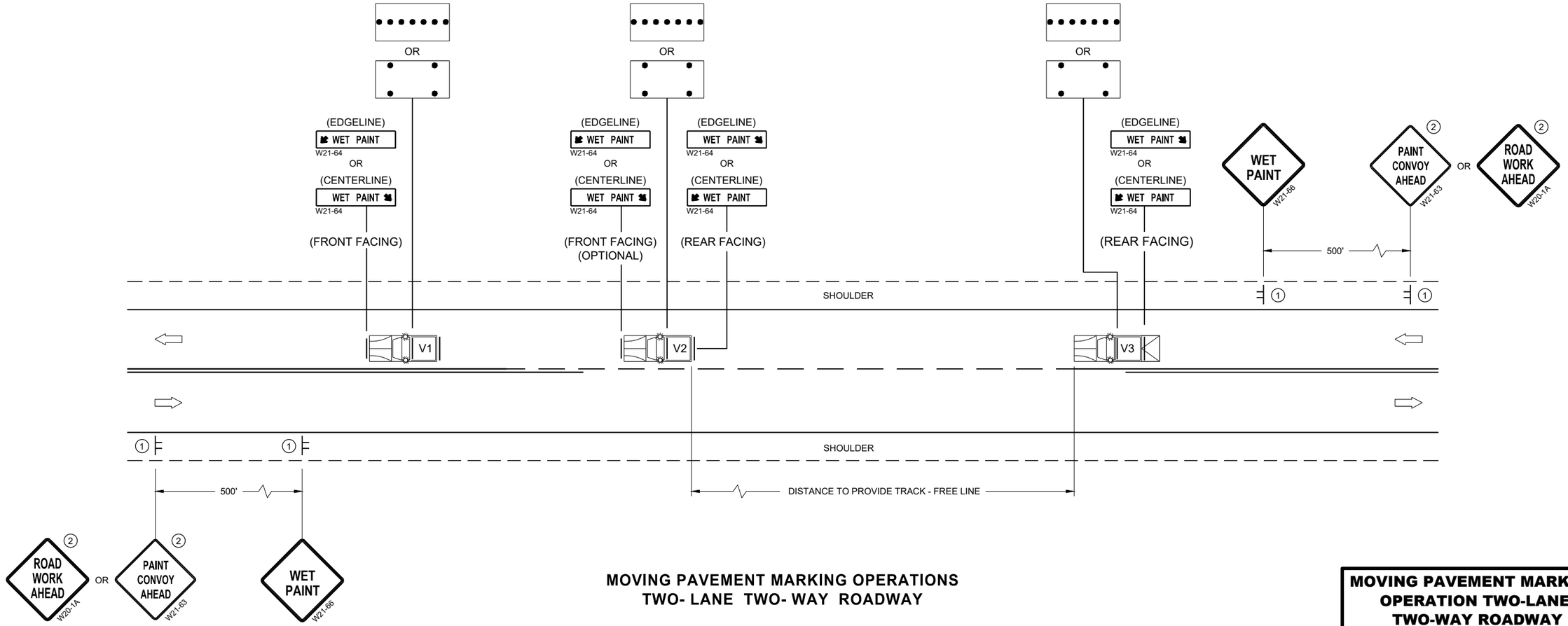
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 18" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C19 - 06a

SDD 15C19 - 06a

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (MERGE)

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

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

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

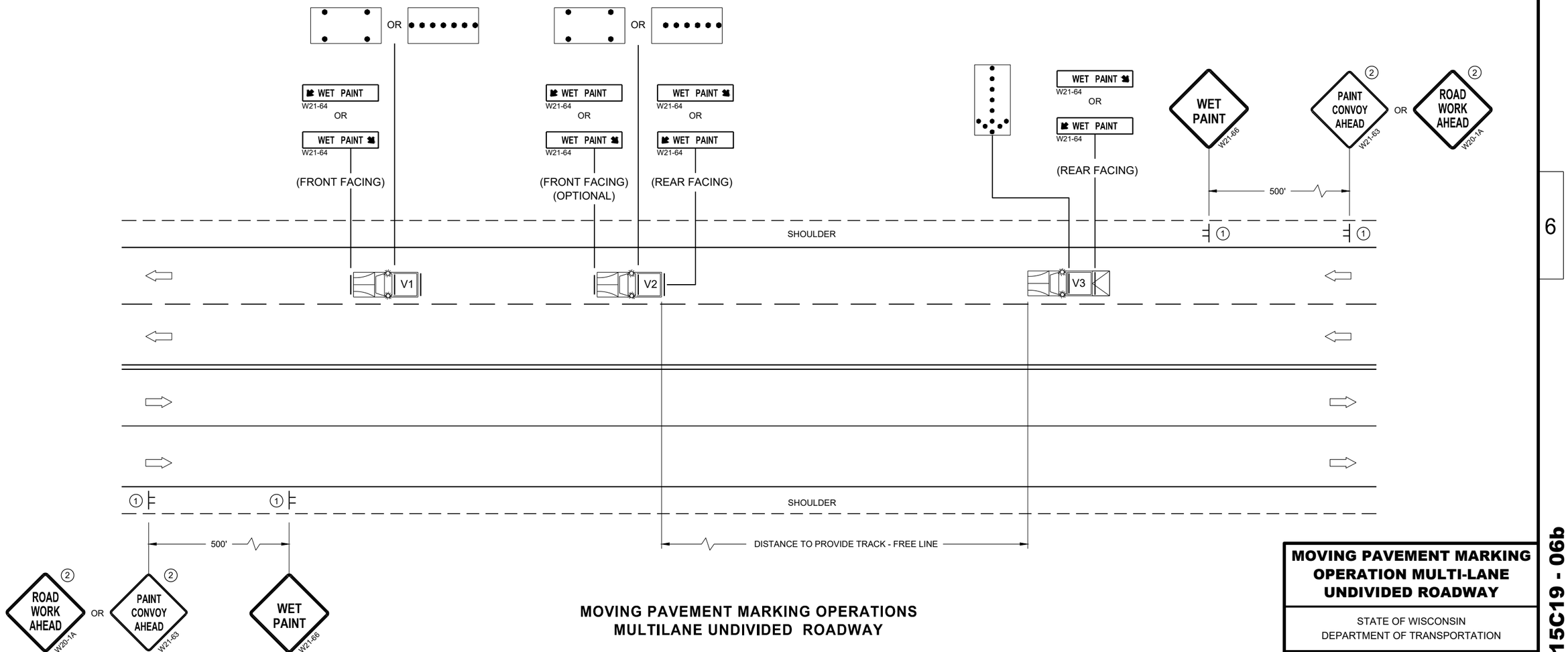
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL HAVE A MINIMUM HEIGHT OF 18" FOR WET PAVEMENT MARKINGS.

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS MULTILANE UNDIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

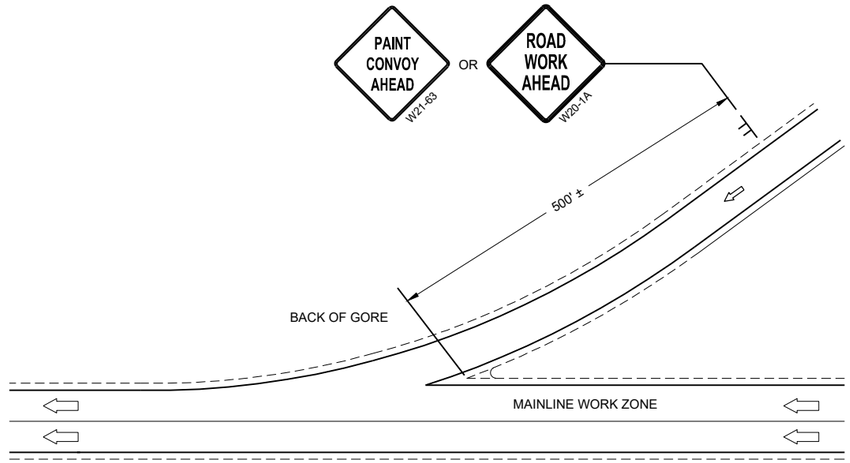
APPROVED
November 2019 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD 15C19 - 06b

LEGEND

- V1 MARKING VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE
- TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW PANEL (MERGE)
- FLASHING ARROW PANEL (CAUTION)



GENERAL NOTES

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

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

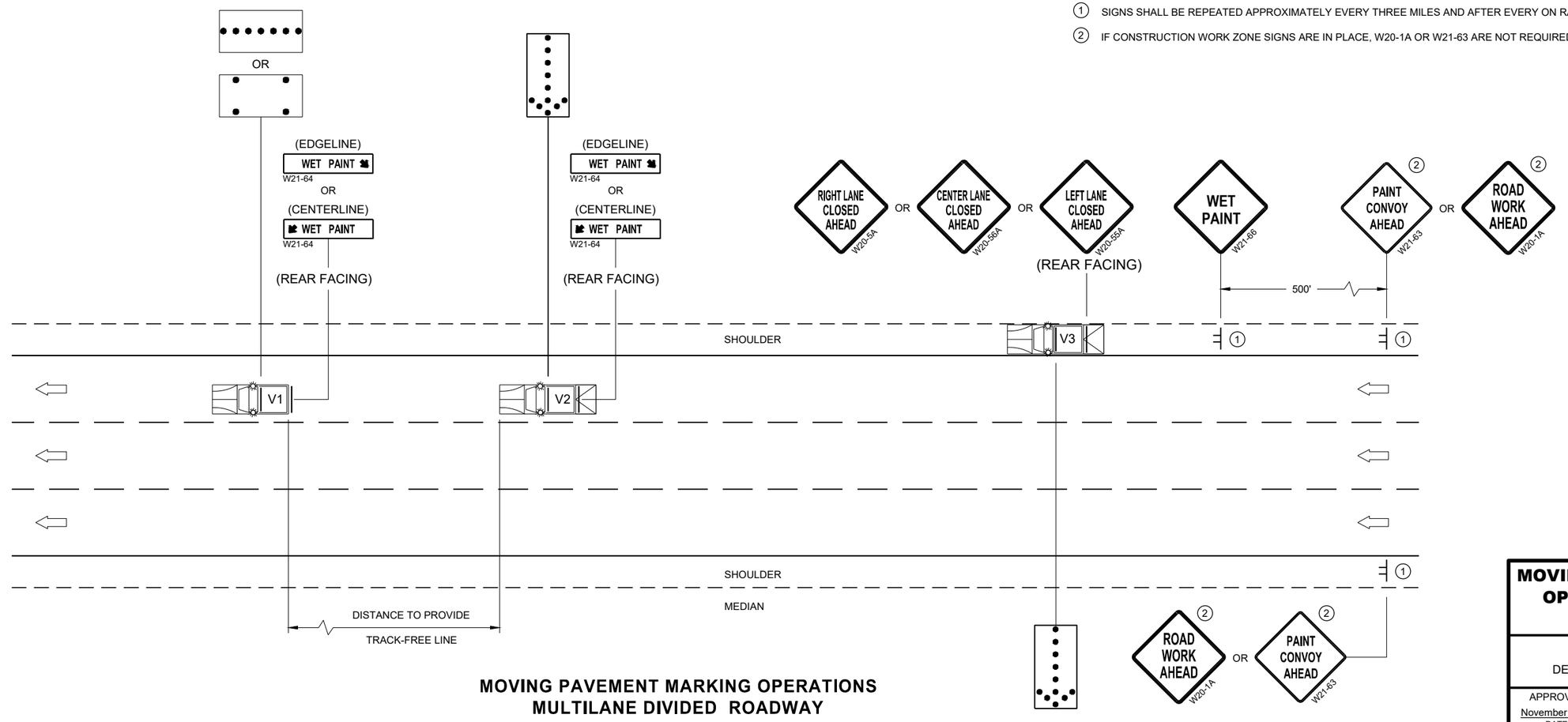
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM HEIGHT OF 18" FOR WET PAVEMENT MARKINGS

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C19 - 06c

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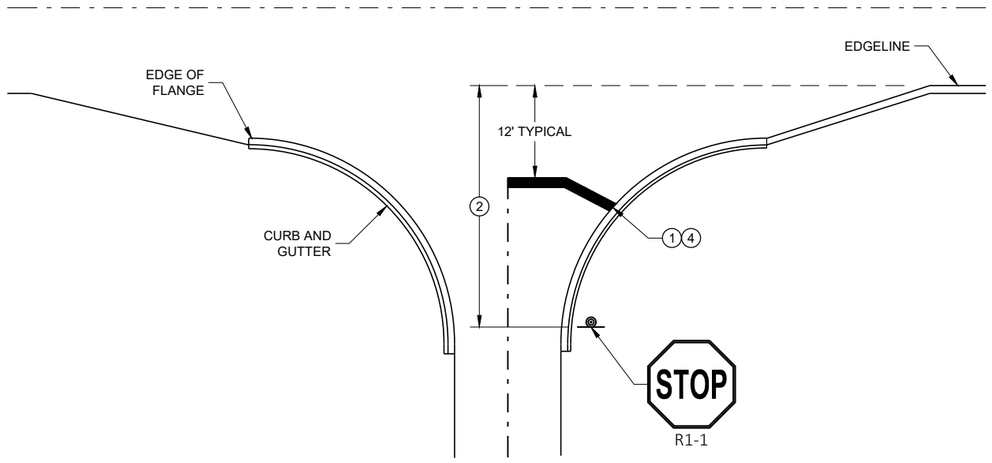
SDD 15C19 - 06c

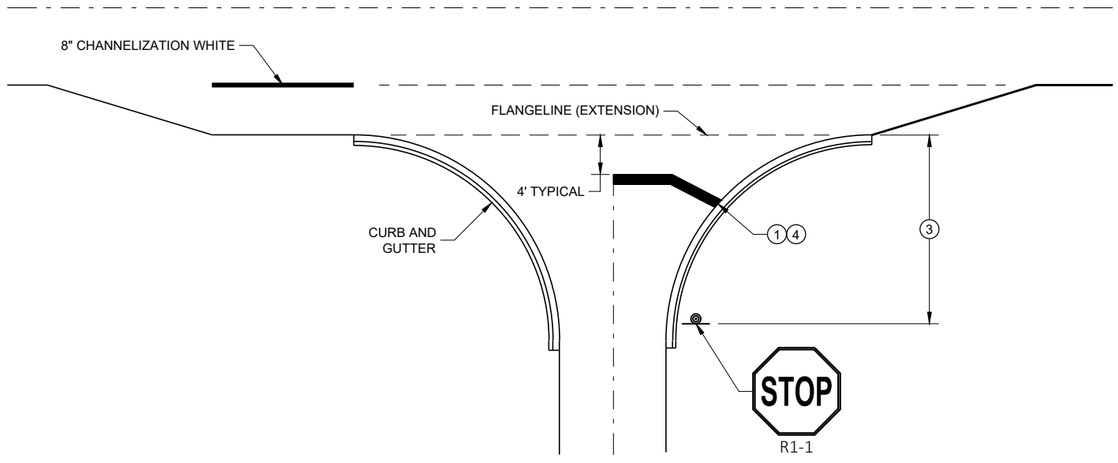
GENERAL NOTES

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

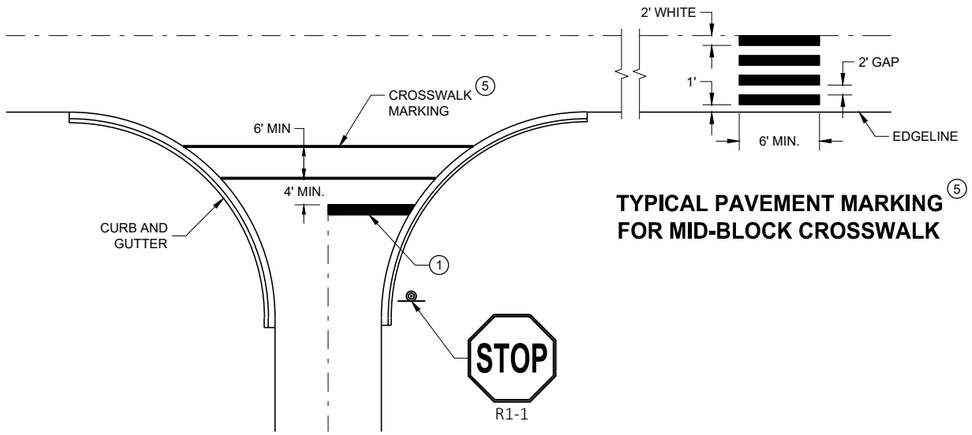
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

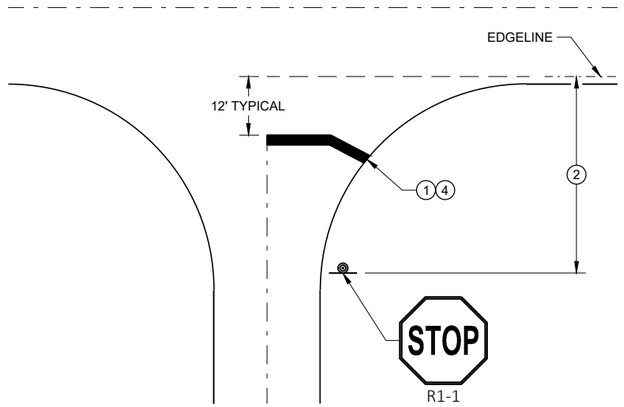


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

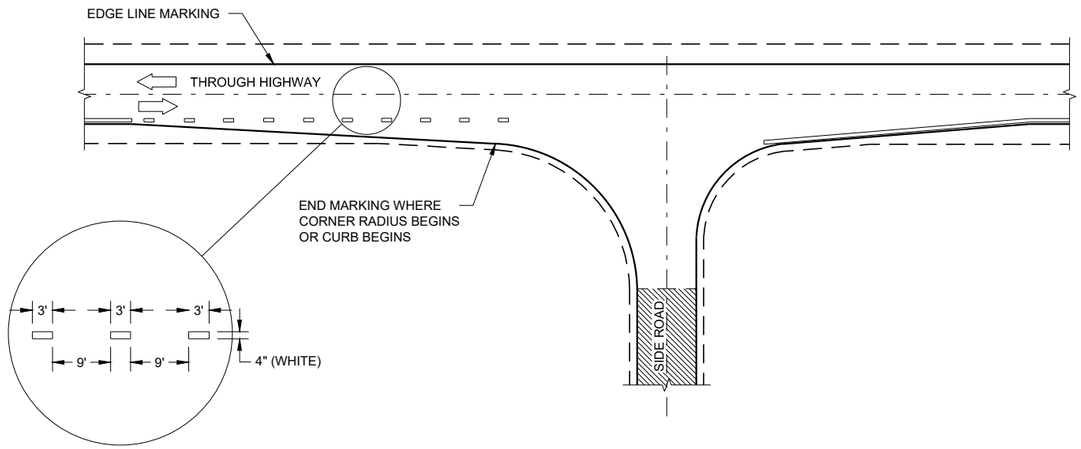
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

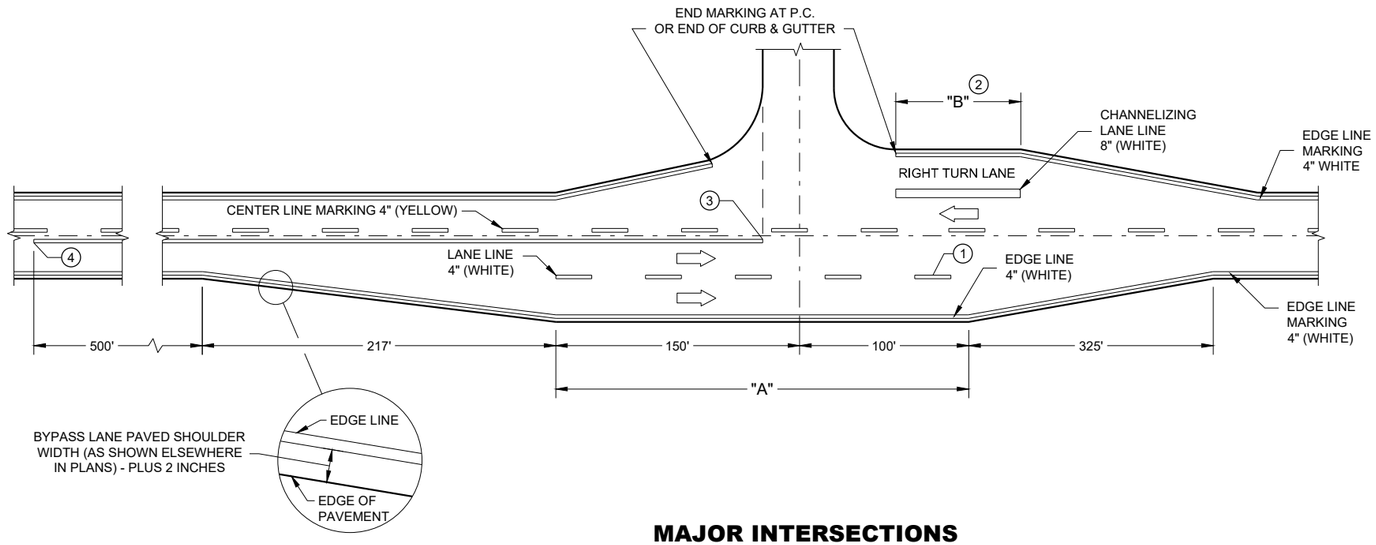
/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6
SDD 15C33 - 04



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

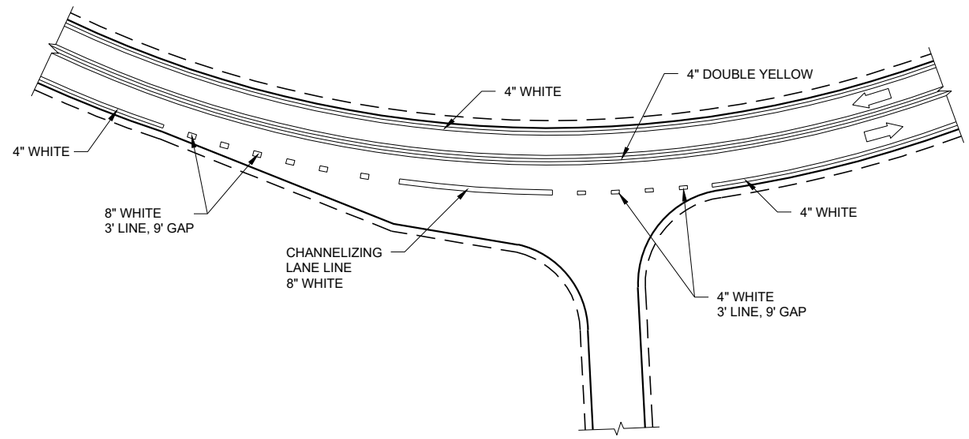
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

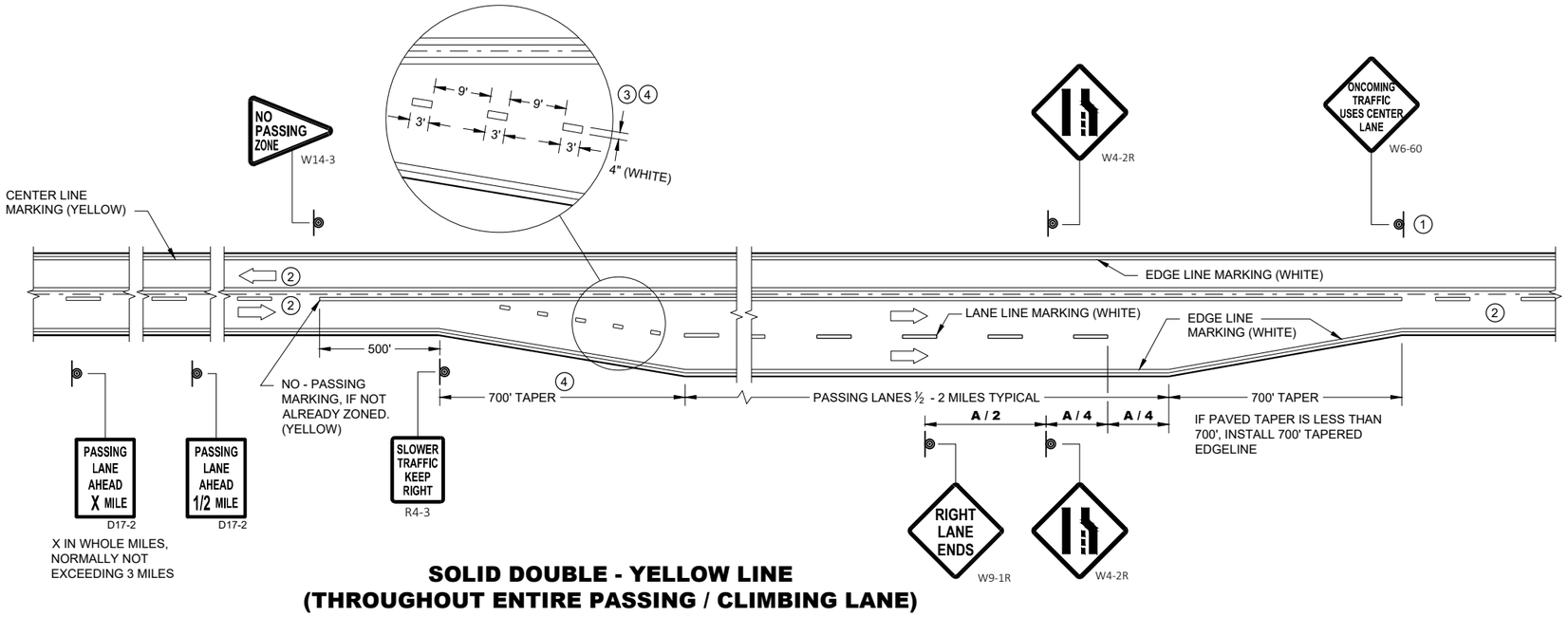
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 04a

6

SDD 15C35 - 04a



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

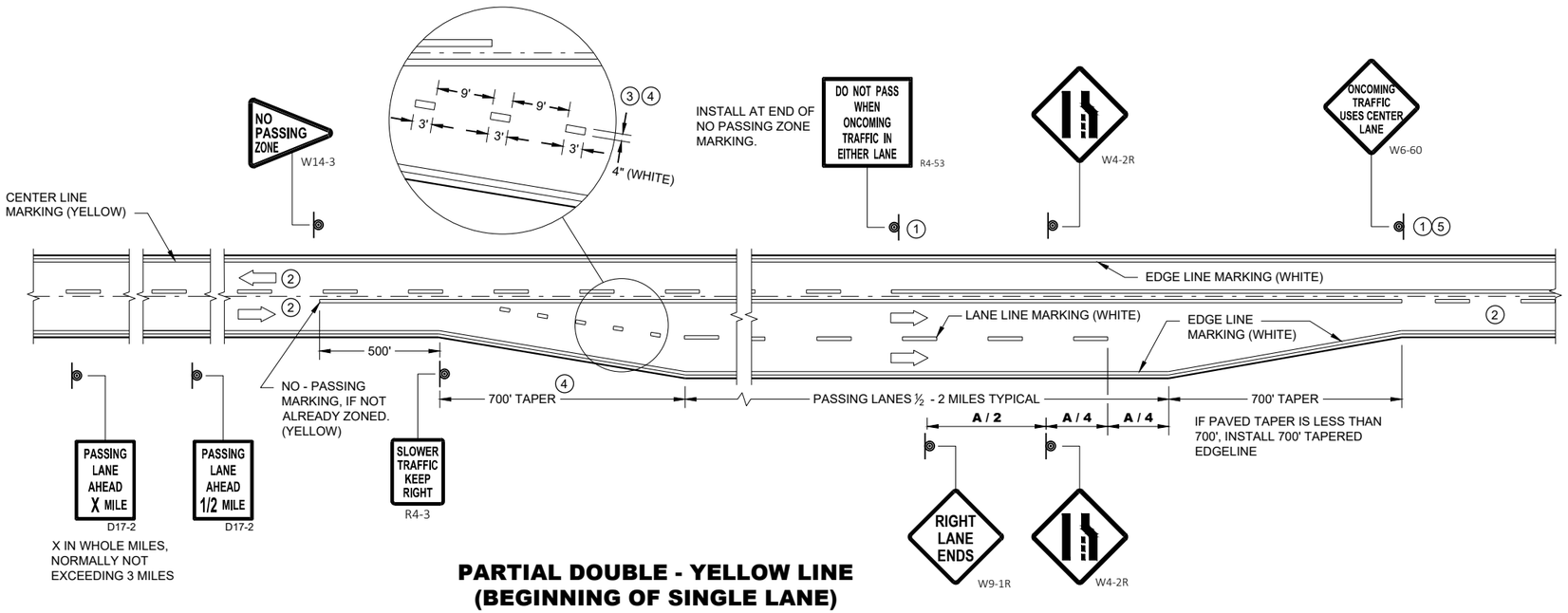
GENERAL NOTES

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

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

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



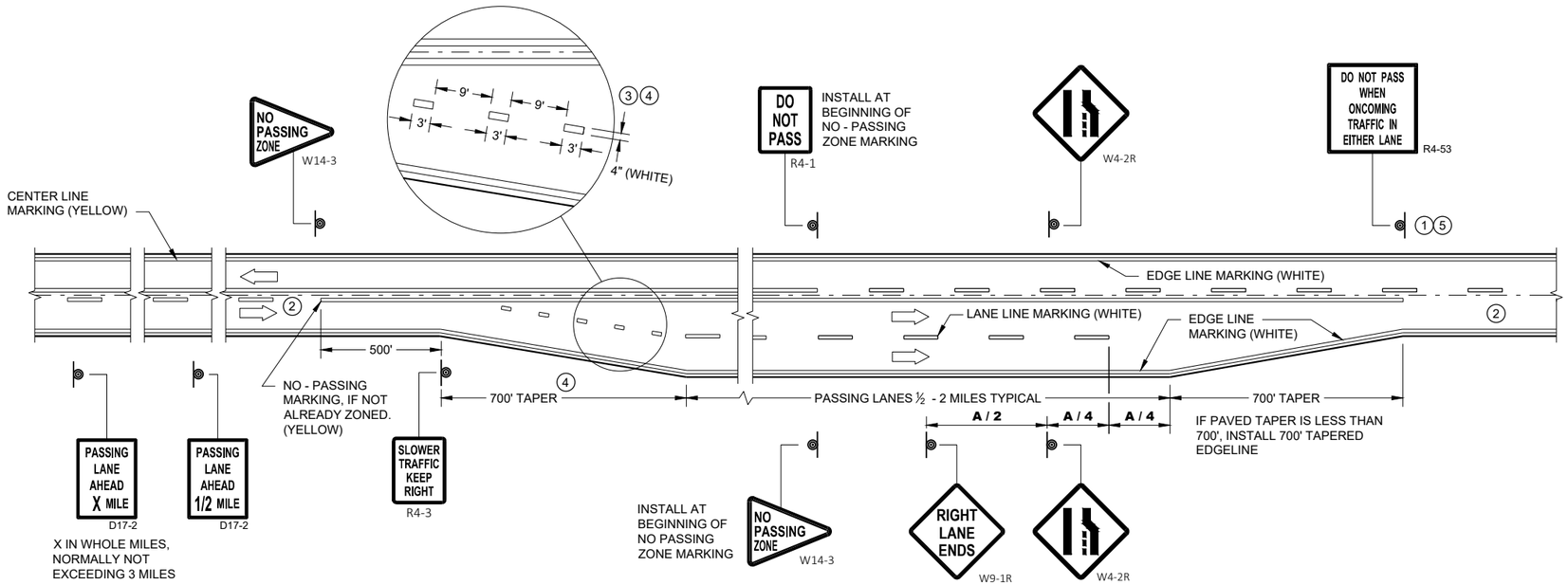
PARTIAL DOUBLE - YELLOW LINE
(BEGINNING OF SINGLE LANE)

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

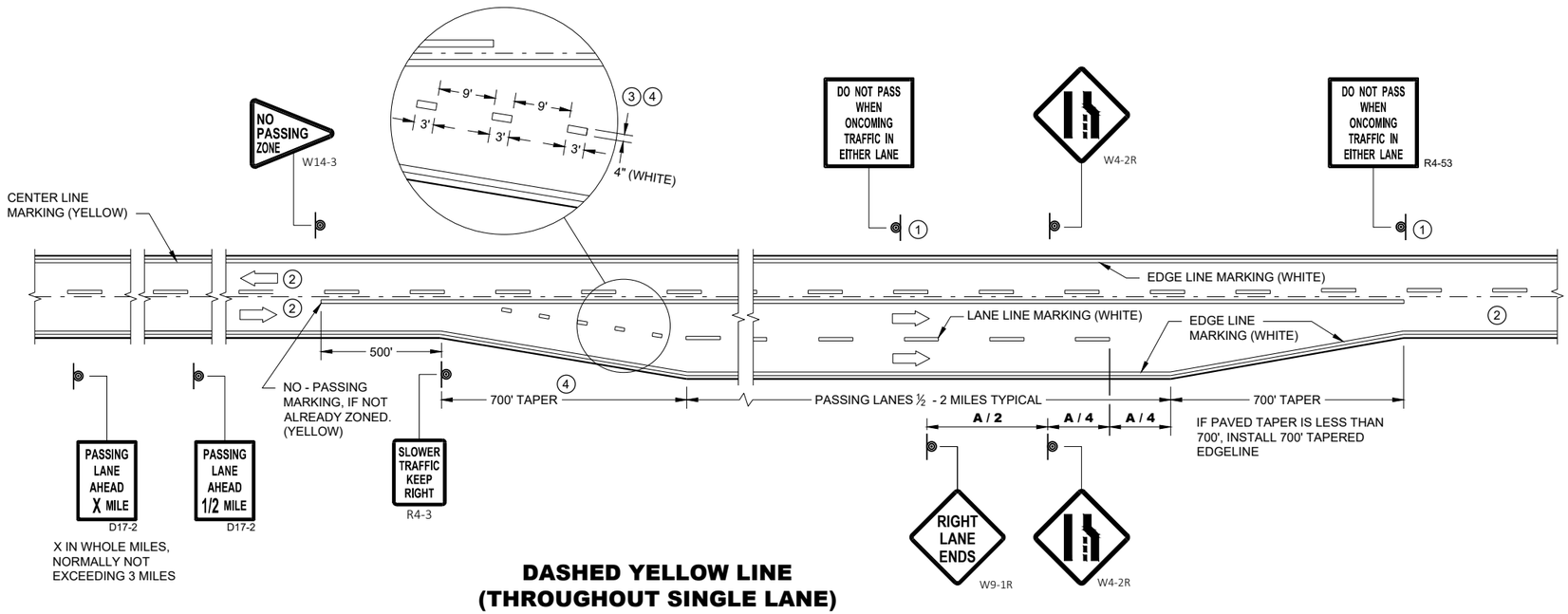
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 04b
SDD 15C35 - 04b



SOLID DOUBLE - YELLOW LINE
(END OF SINGLE LANE)



DASHED YELLOW LINE
(THROUGHOUT SINGLE LANE)

GENERAL NOTES

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

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

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

PAVEMNET MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER
FHWA

SDD 15C35 - 04c

SDD 15C35 - 04c

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

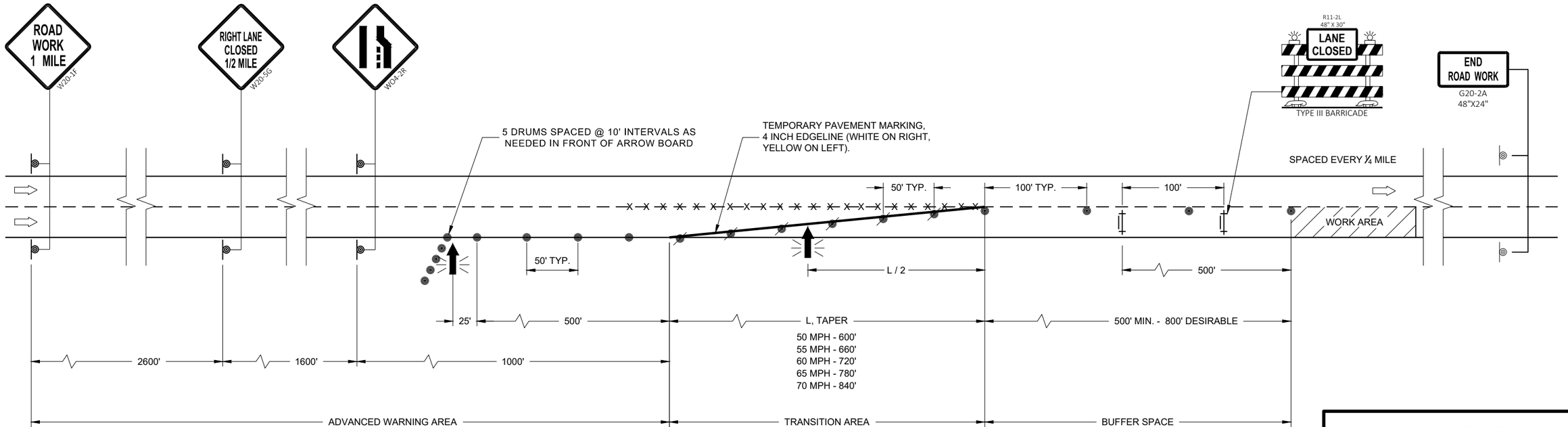
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D12 - 07a

6

SDD 15D12 - 07a

GENERAL NOTES

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

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THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

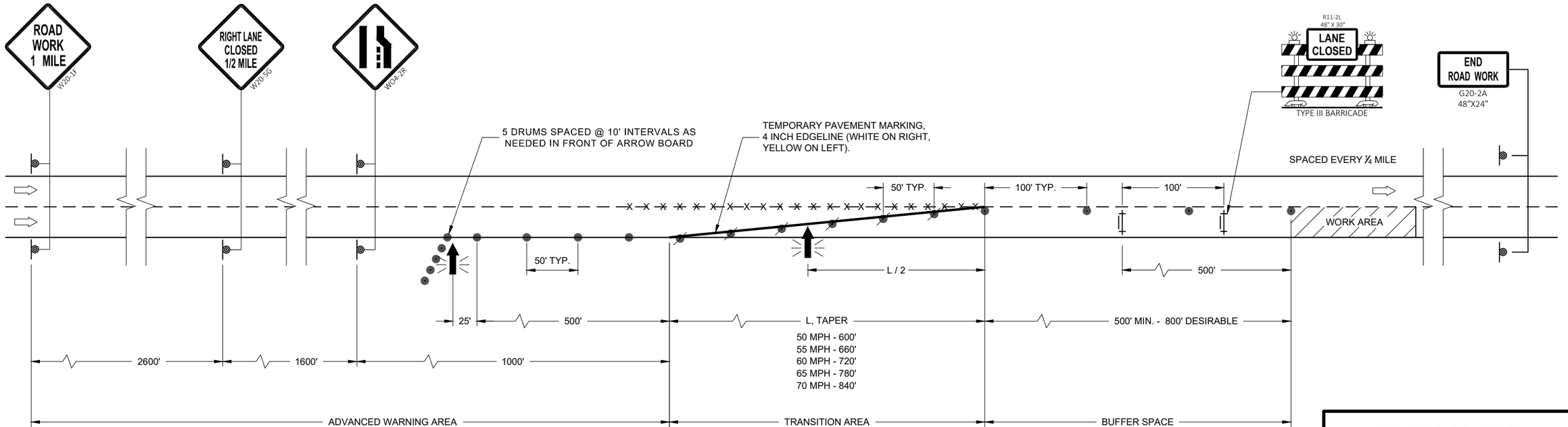
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL
LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D12 - 08a

6

SDD 15D12 - 08a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
W / S	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

W = SHOULDER WIDTH (FEET
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L= WS AT 45 MPH OR GREATER
L = WS² / 60 AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = 1/3L

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" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

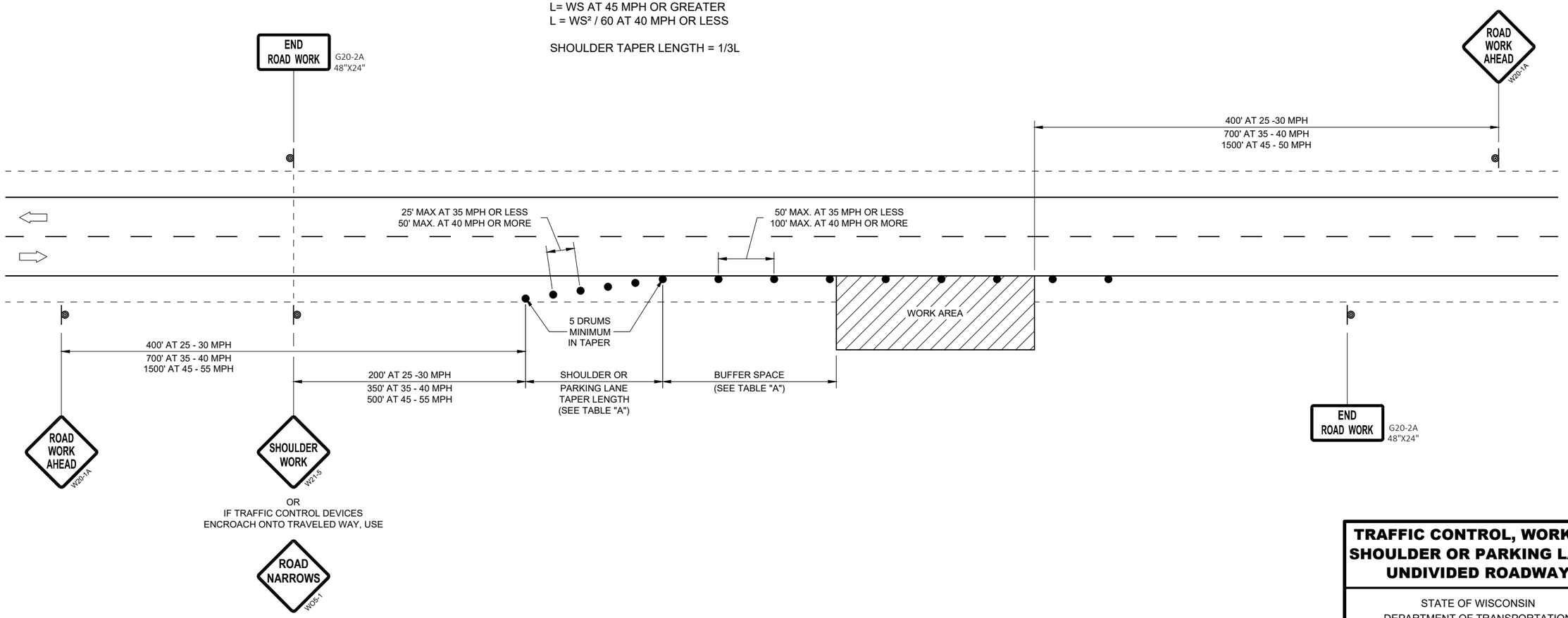
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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 WITHN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY RESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

6
SDD 15D28 - 03

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.

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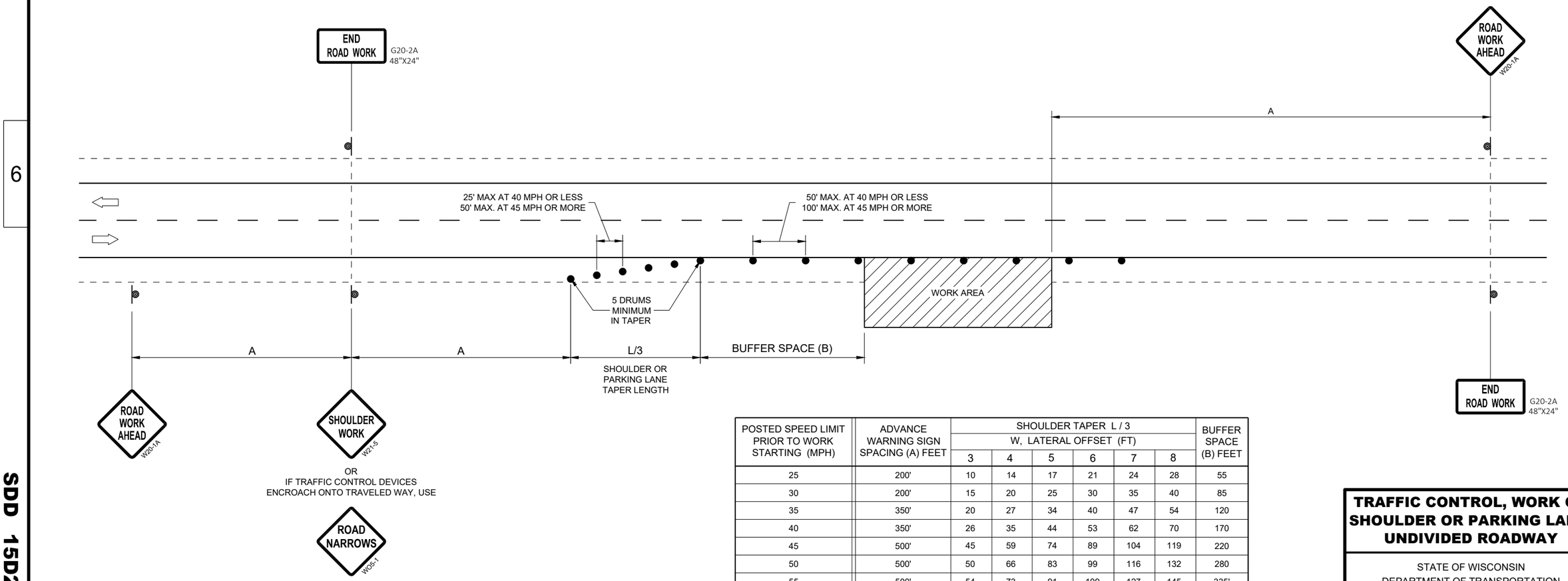
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

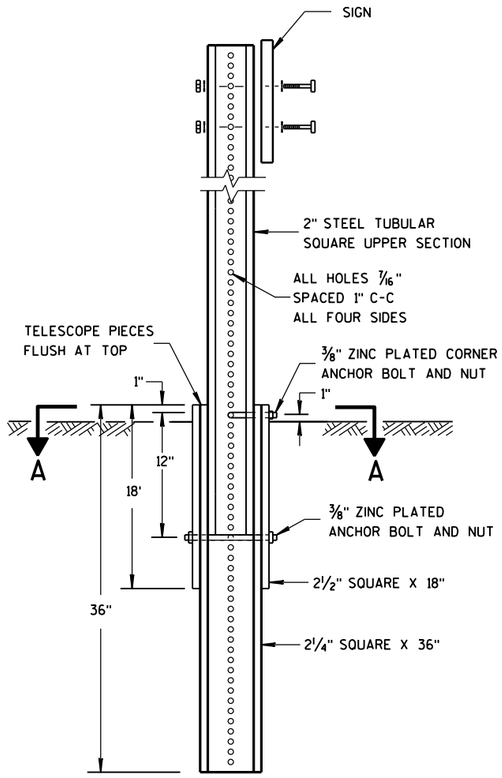
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

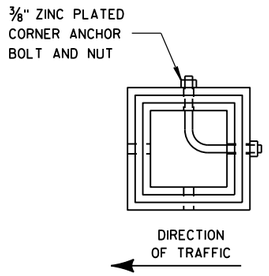
FHWA

6

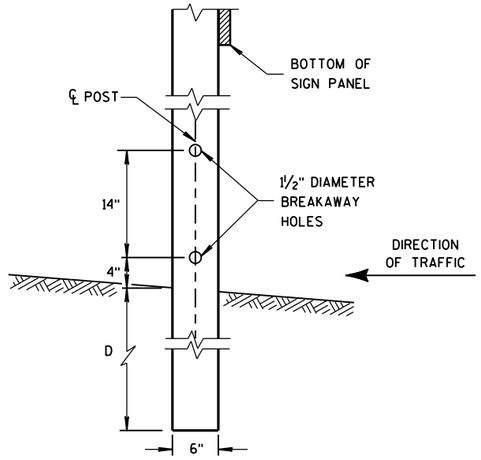
SDD 15D28 - 04



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



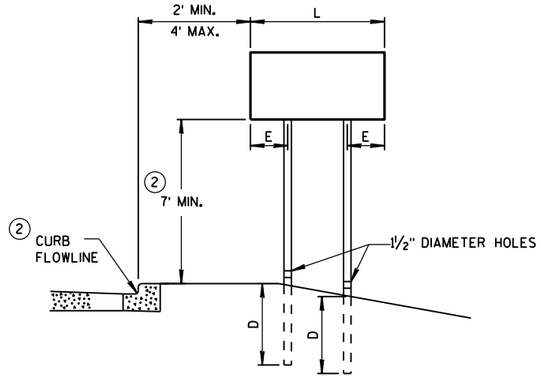
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

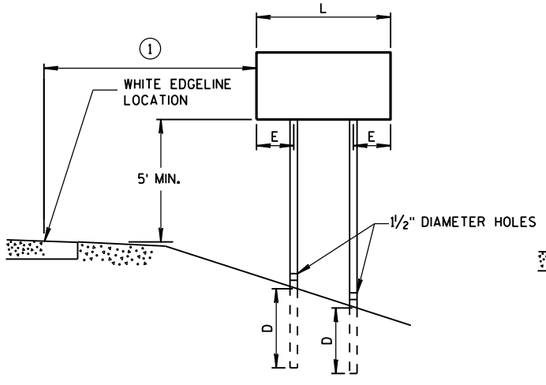
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

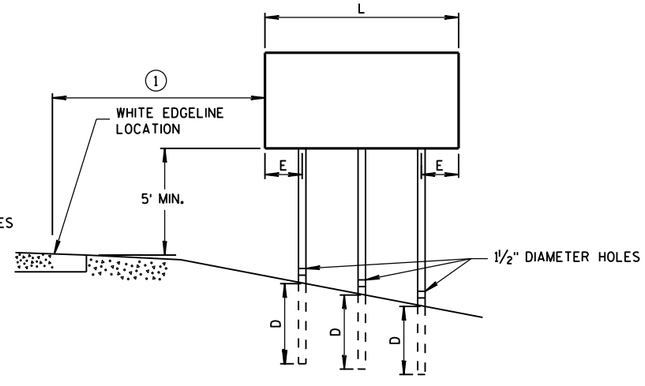
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL 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).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

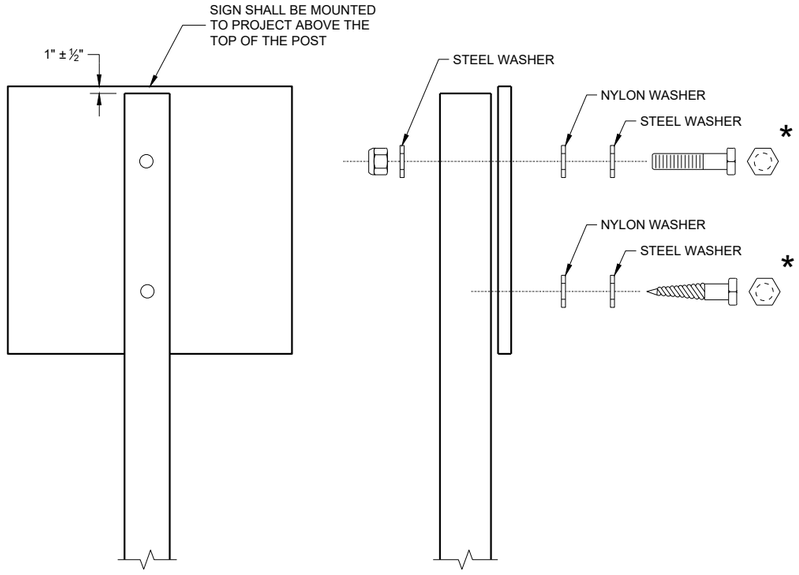
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a

6

S.D.D. 15 D 38-2a



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.

WOOD POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

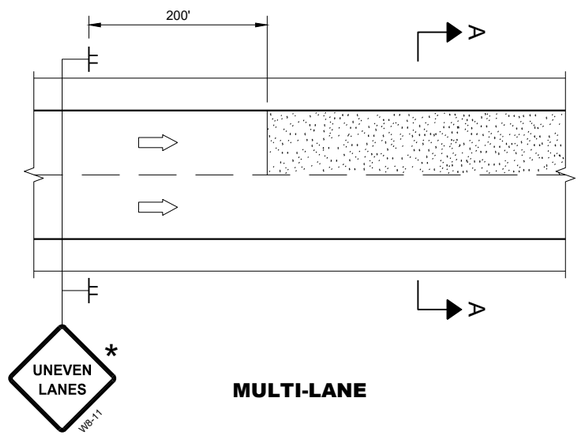
SDD 15D38 - 02b

SDD15D38 - 02b

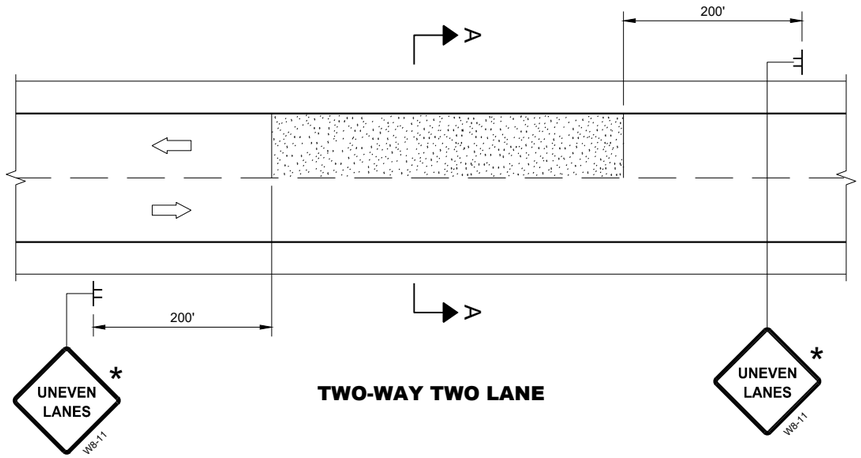
ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

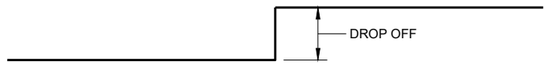
APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA



MULTI-LANE

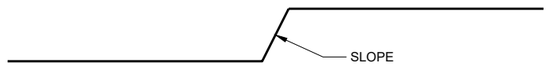


TWO-WAY TWO LANE

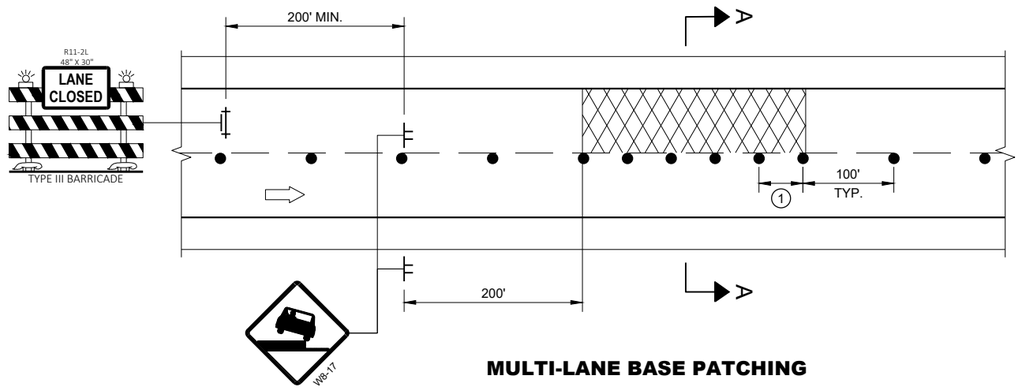


SECTION A - A

OR

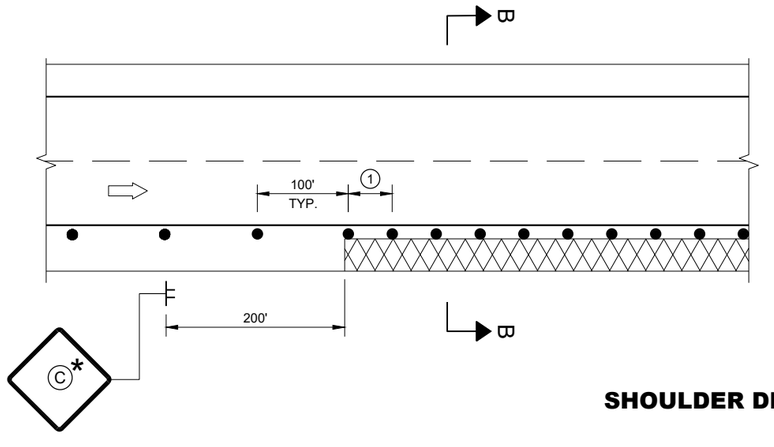


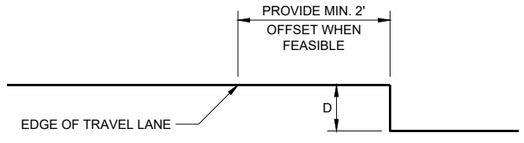
SECTION A - A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS





SECTION B - B

SHOULDER DROP-OFFS

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

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

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

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

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

LEGEND

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

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

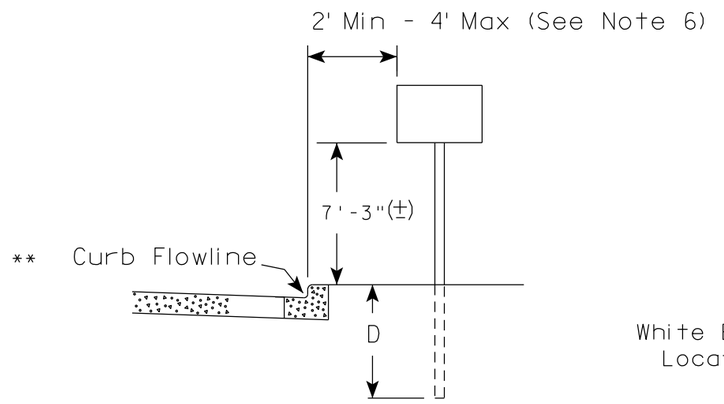
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

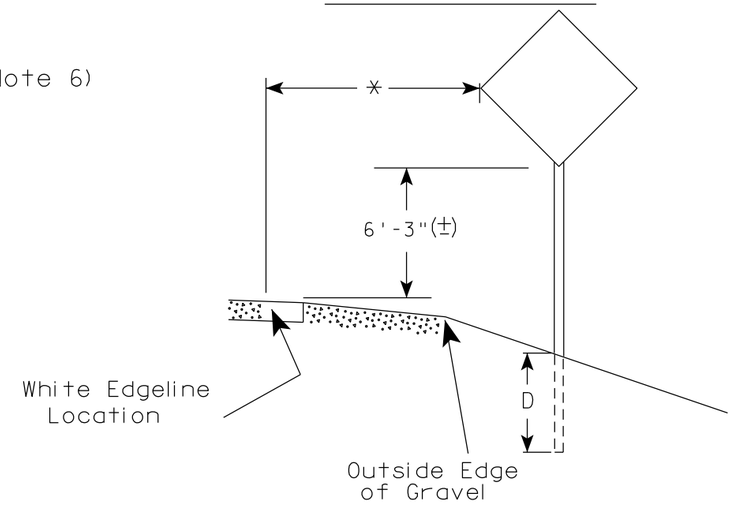
6

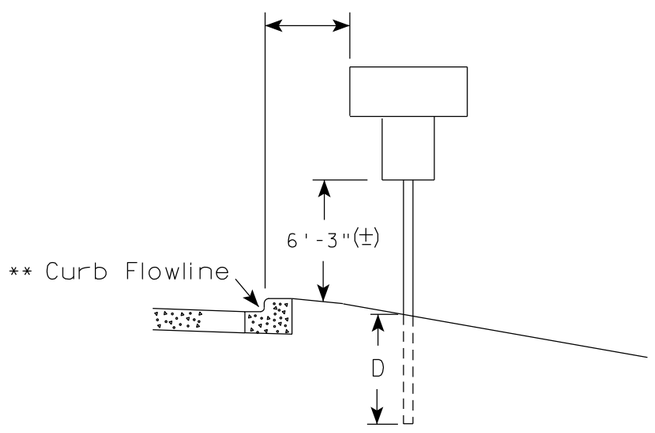
SDD 15D39 - 02

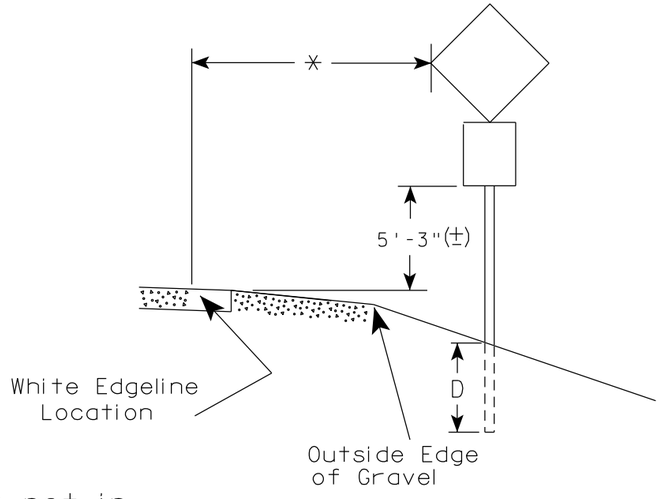
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

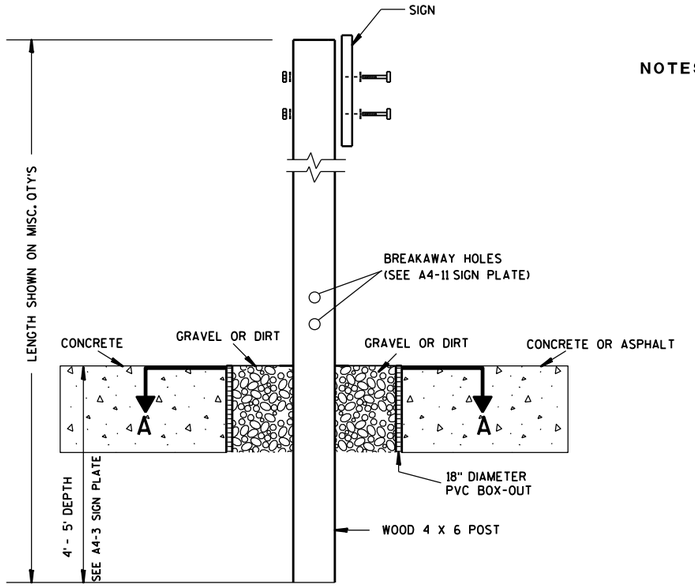
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

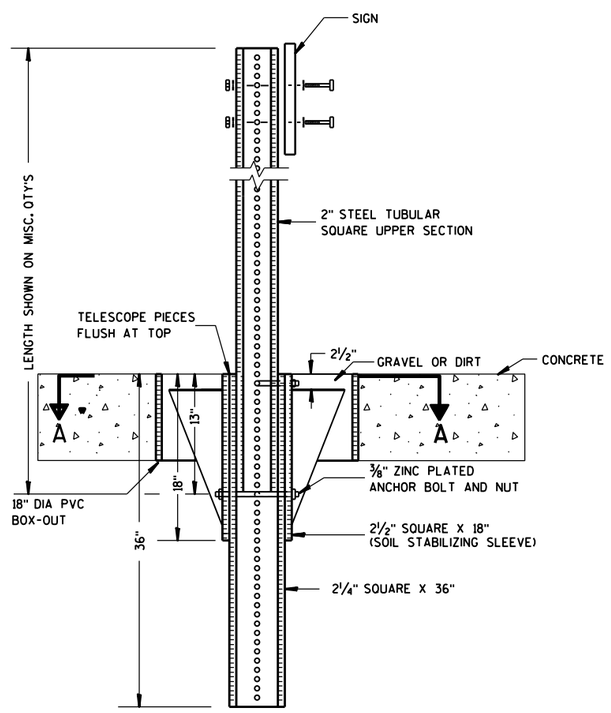
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 225	E



ELEVATION VIEW

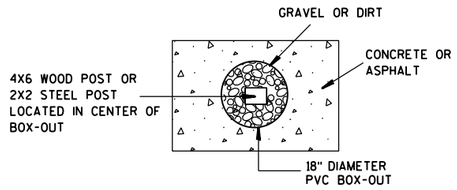
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

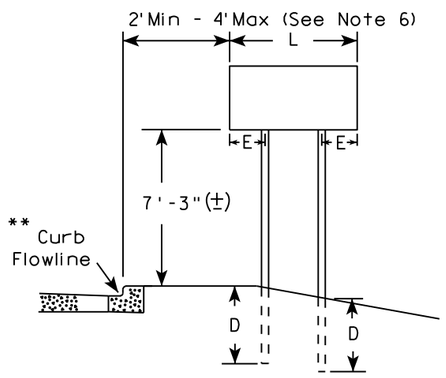
APPROVED Matthew R Rauch
for State Traffic Engineer

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

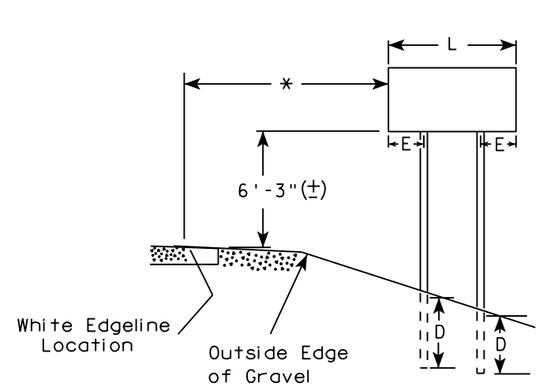
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

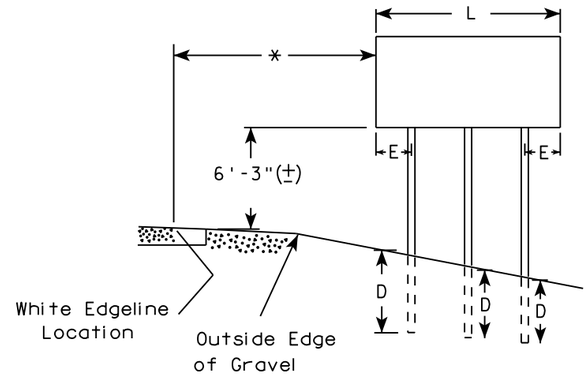
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

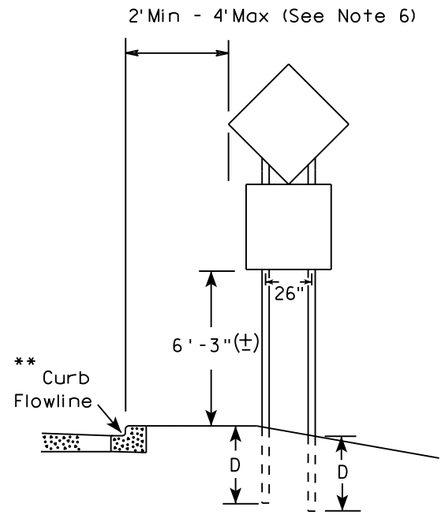
URBAN AREA



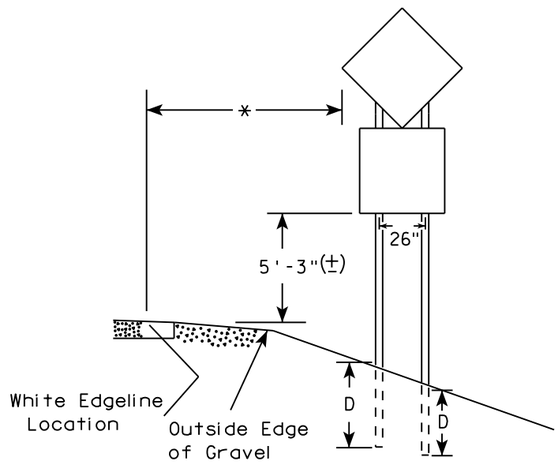
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

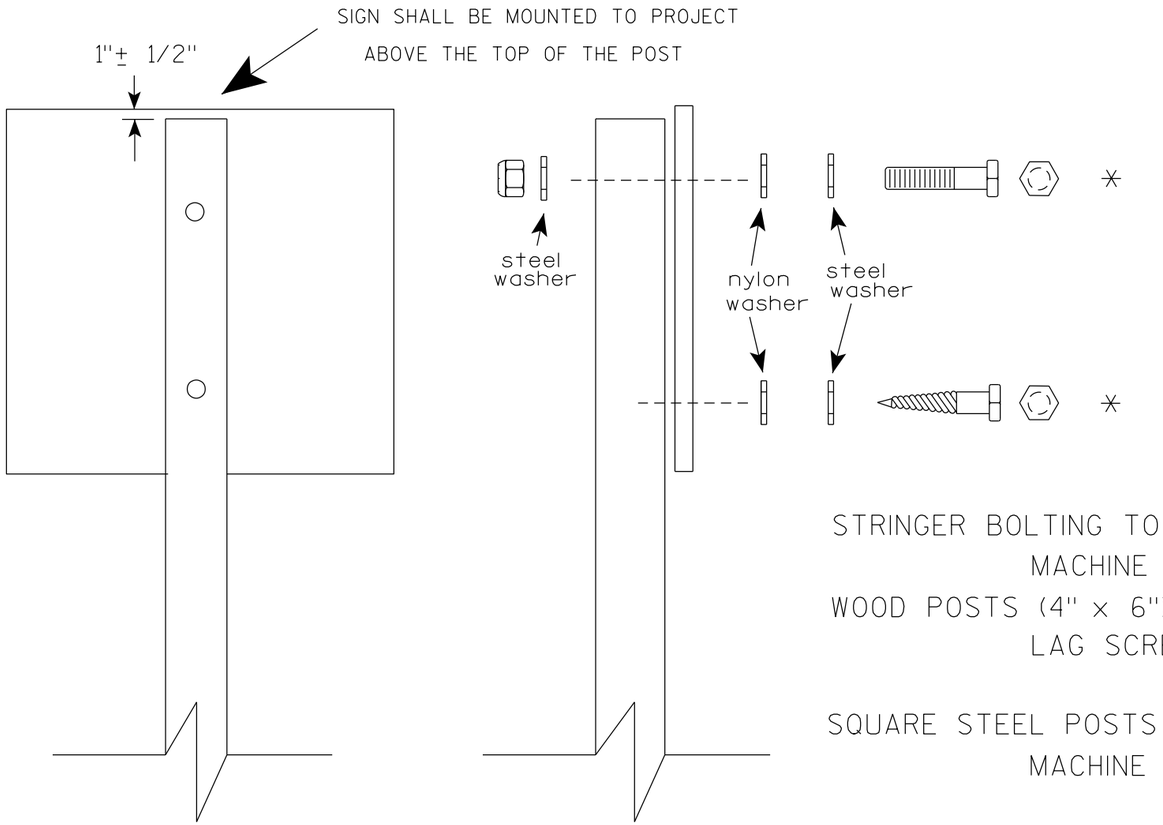
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 227	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

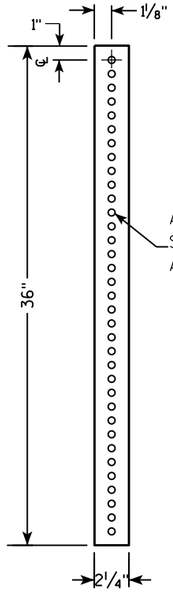
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

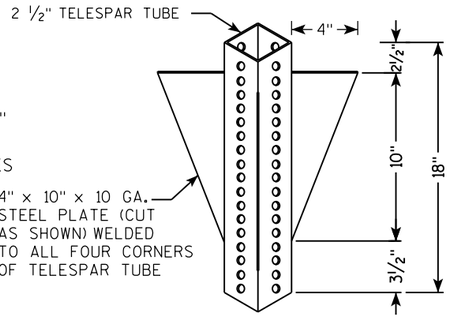
SHEET NO: 228 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

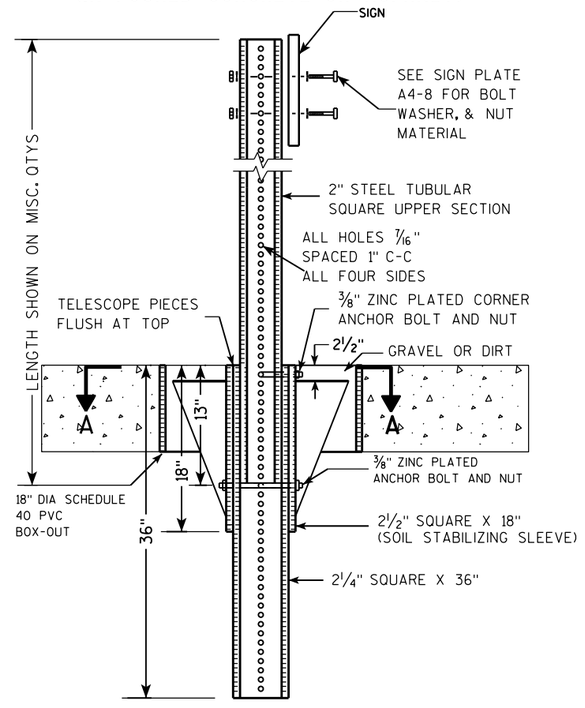
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



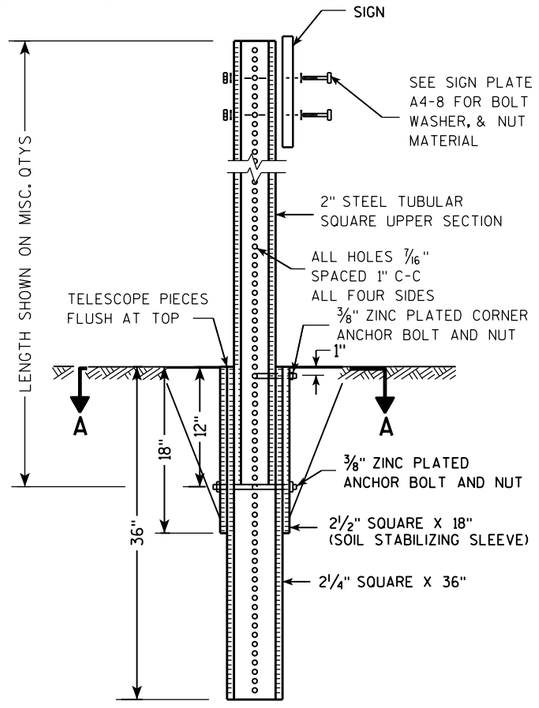
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

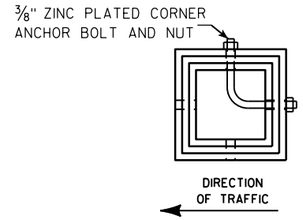


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

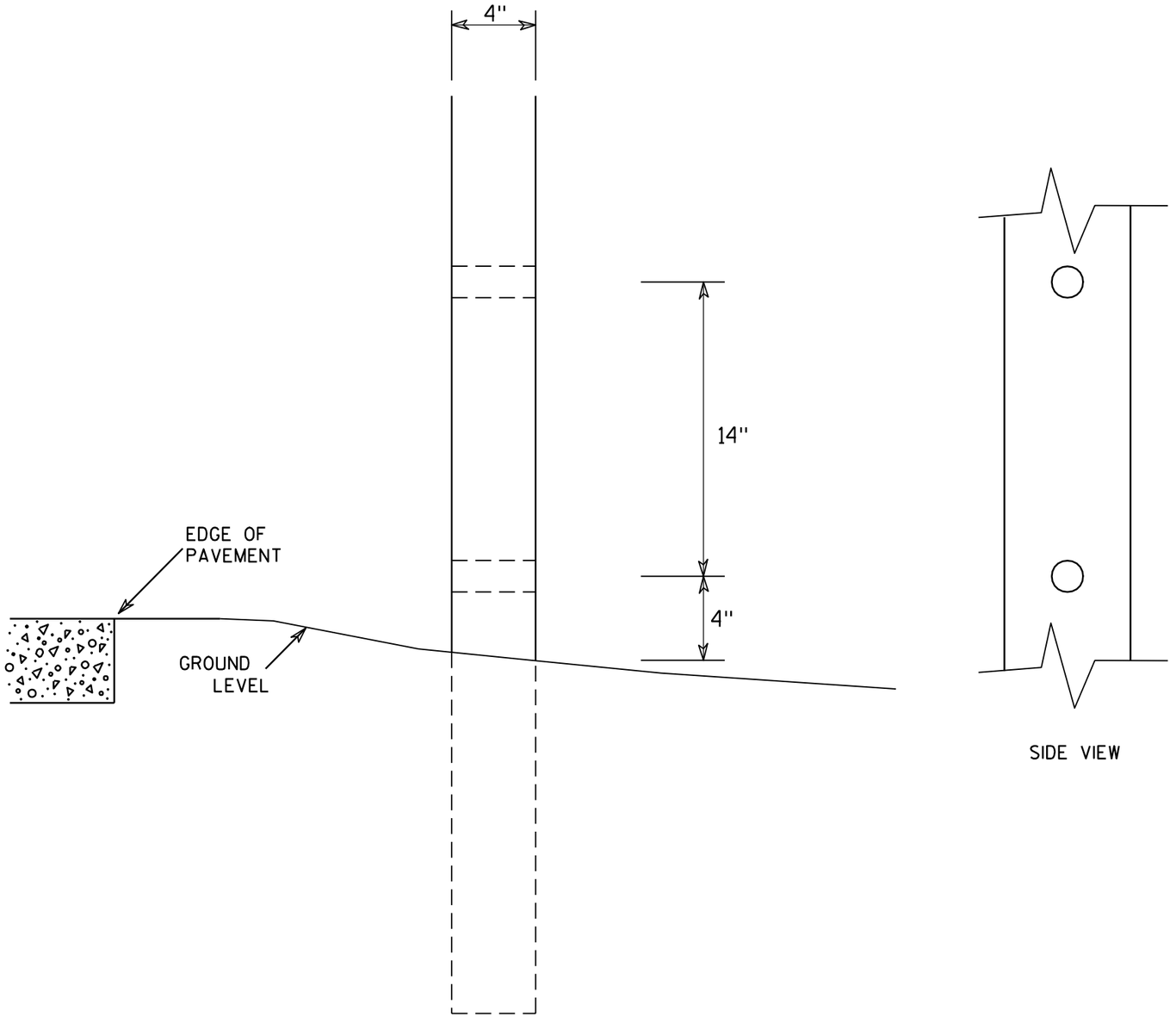
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 229 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

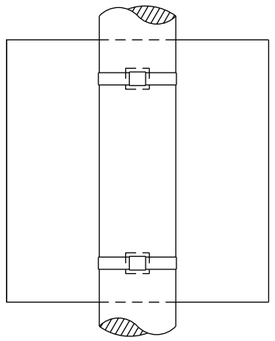
APPROVED Chester J Spang for State Traffic Engineer

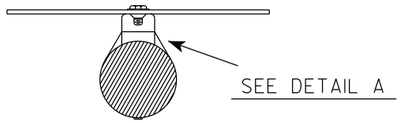
DATE 3/27/97 PLATE NO. A4-11.2

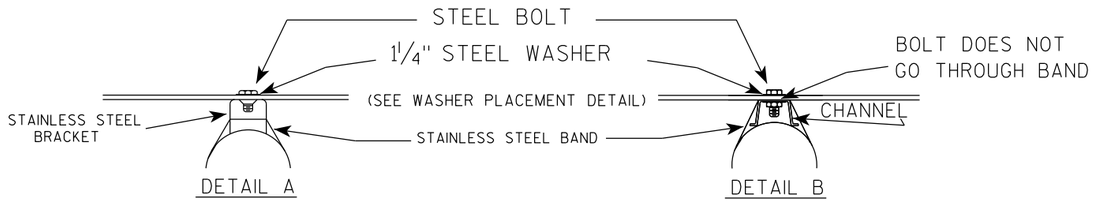
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 230	E

BANDING

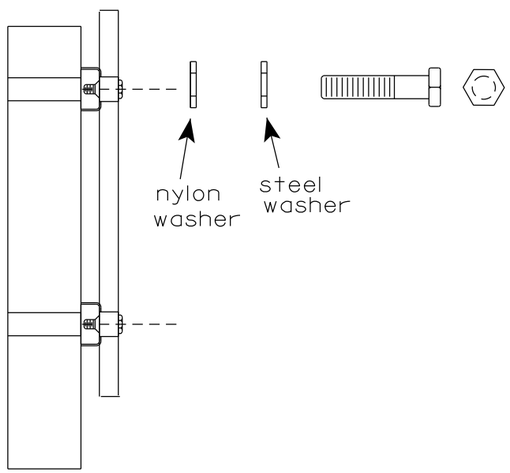
SINGLE SIGN







WASHER PLACEMENT

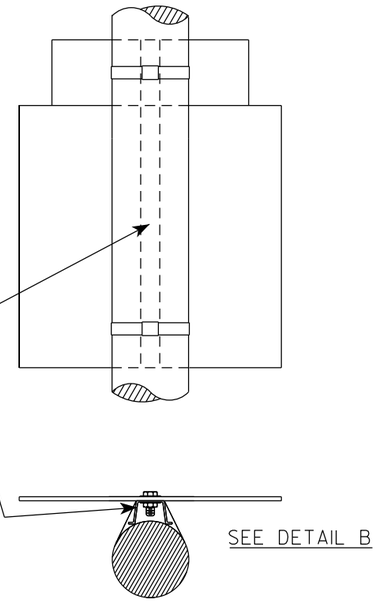


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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

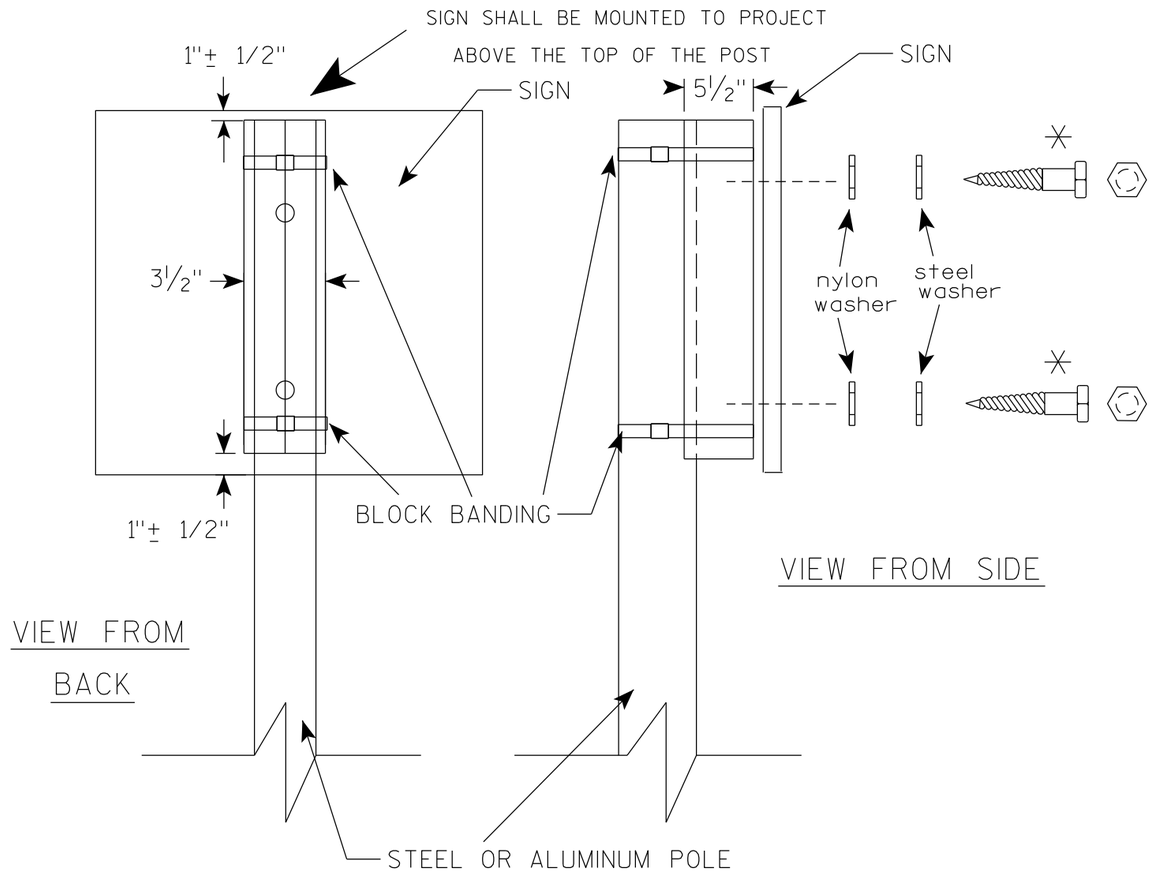
DATE 6/10/19 PLATE NO. A5-9.4

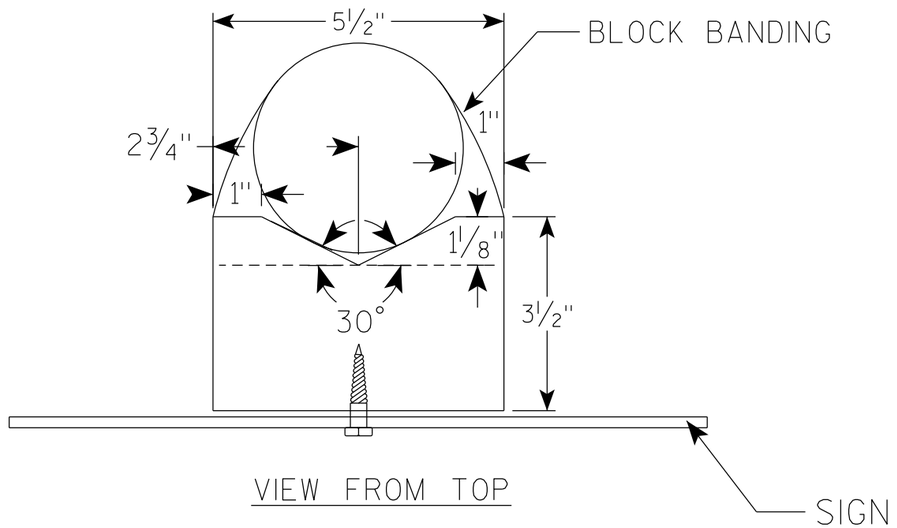
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 231	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

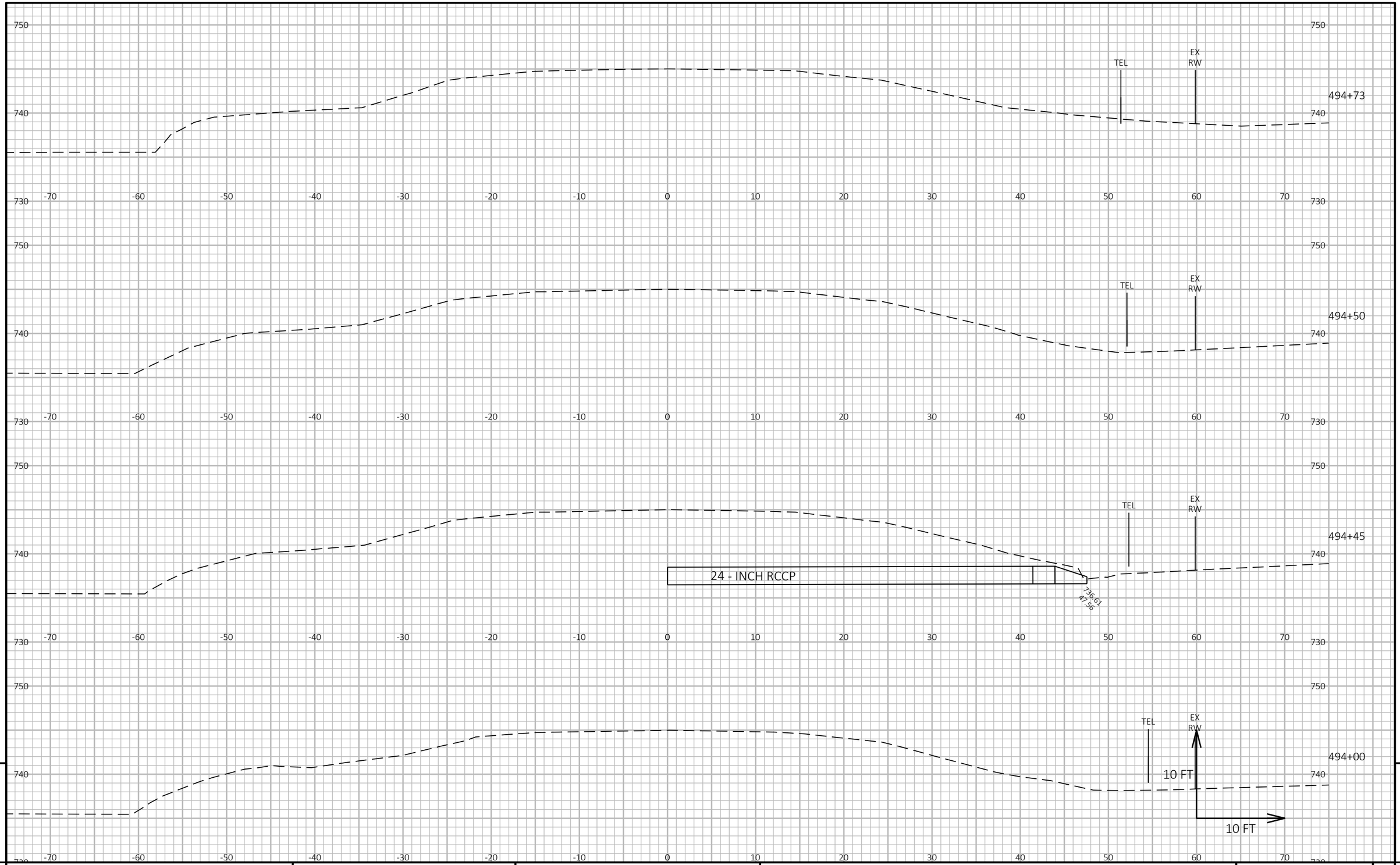
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO: | SHEET NO: 232 | E



9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 494+73	SHEET 233	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 494+731

PLOT DATE : 9/16/2020 10:39 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

750
740
730
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

TEL
EX RW
495+50

750
740
730
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

RIPRAP
24 - INCH RCCP
736.36
48.81
TEL
EX RW
495+00
10 FT
10 FT

9 9

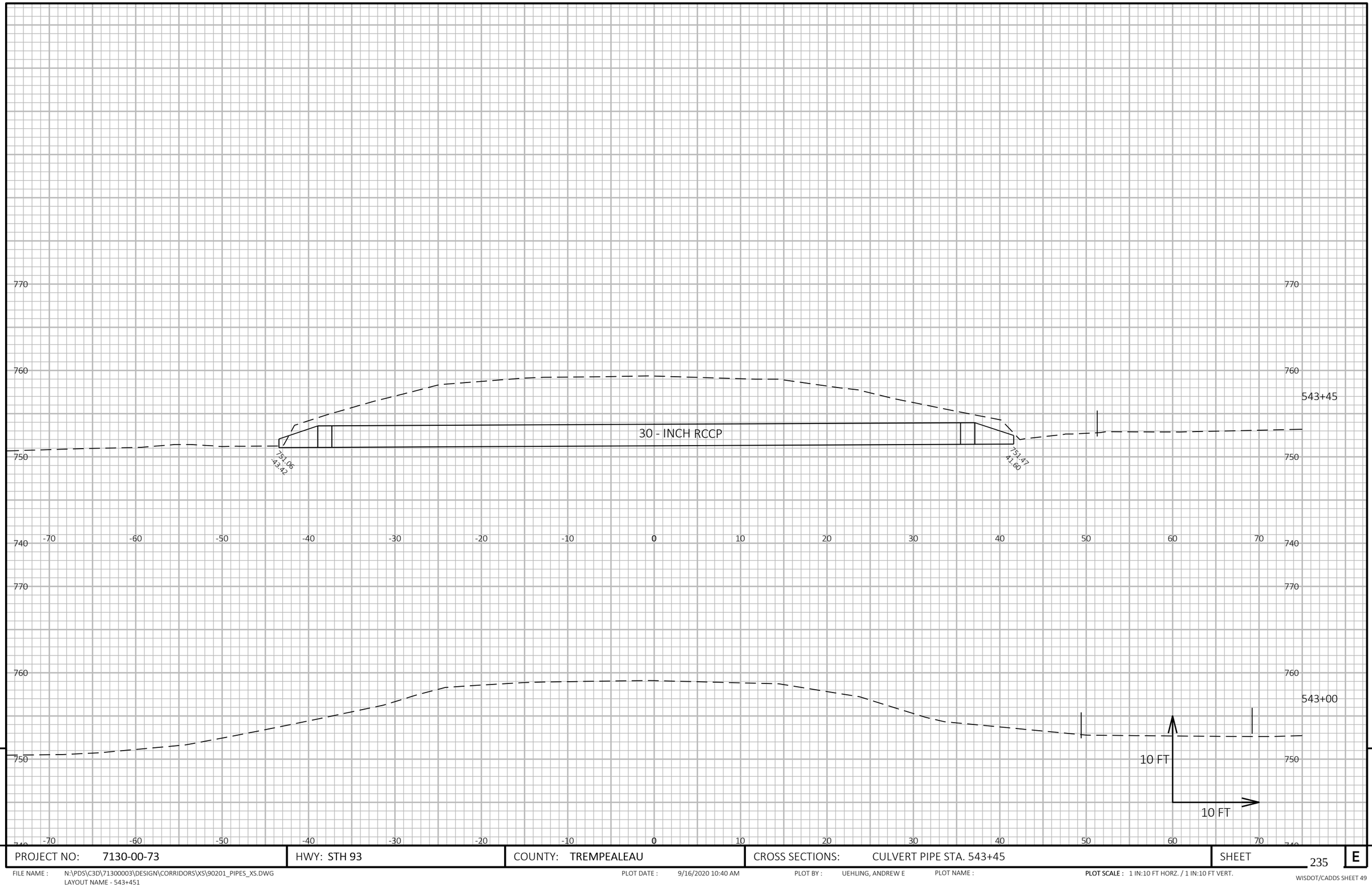
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 494+73	SHEET 234	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 494+732

PLOT DATE : 9/16/2020 10:40 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 543+45	SHEET 235	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 543+451

PLOT DATE : 9/16/2020 10:40 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

760
750
740
770
760
750
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70
EX
RW
544+00
543+50
10 FT
10 FT
9
9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 543+45	SHEET 236	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 543+452

PLOT DATE : 9/16/2020 10:40 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

826+40

EX RW

30 - INCH RCCP

796.16
37.93

797.15
36.94

826+00

EX RW

10 FT

10 FT

820 810 800 790

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 826+42	SHEET 237	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 826+421

PLOT DATE : 9/16/2020 10:40 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

826+50

EX RW

826+44

EX RW

30 - INCH RCCP

796.18
37.67

797.07
36.81

826+42

EX RW

10 FT

10 FT

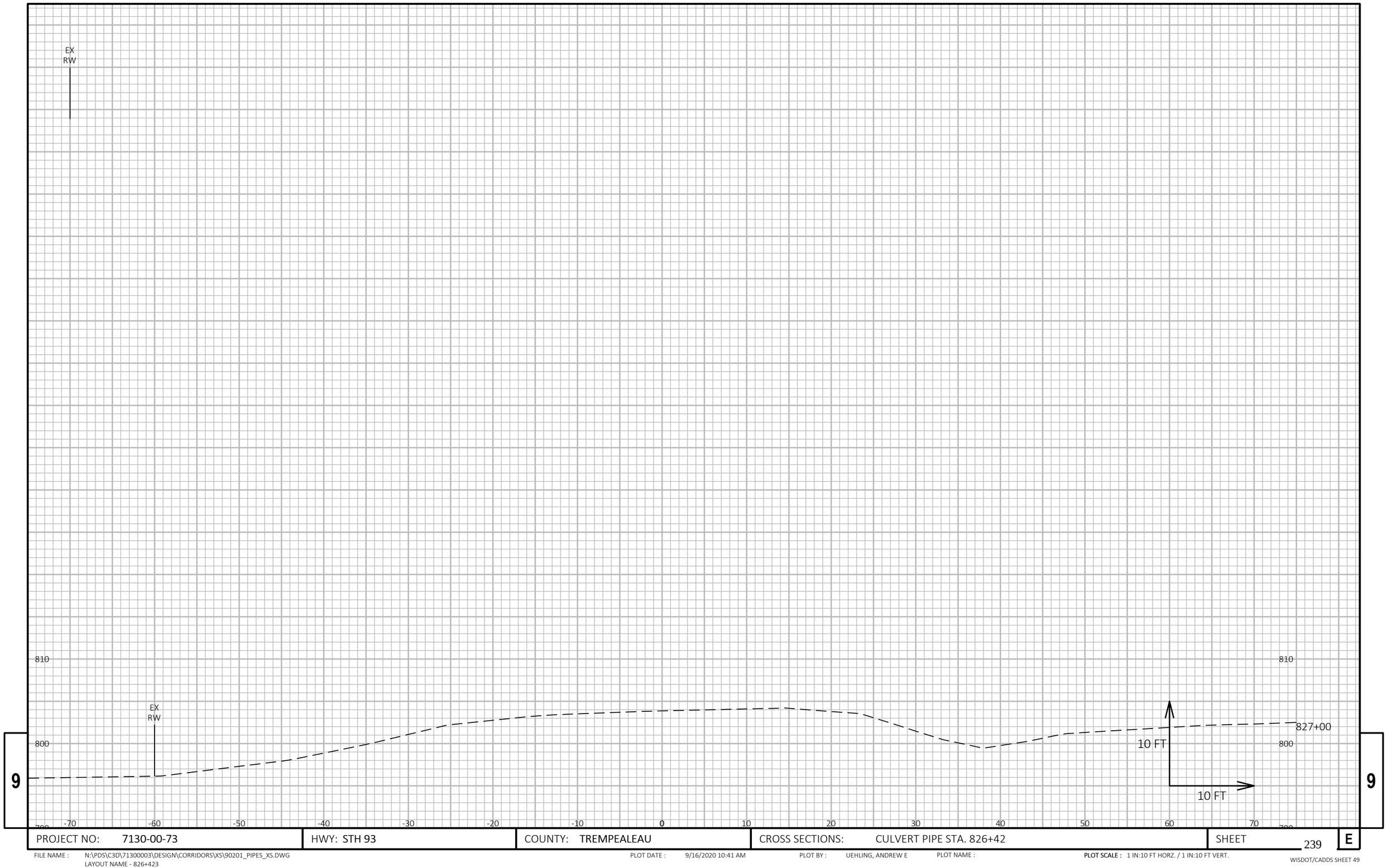
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 826+42	SHEET 238	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 826+422

PLOT DATE : 9/16/2020 10:41 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

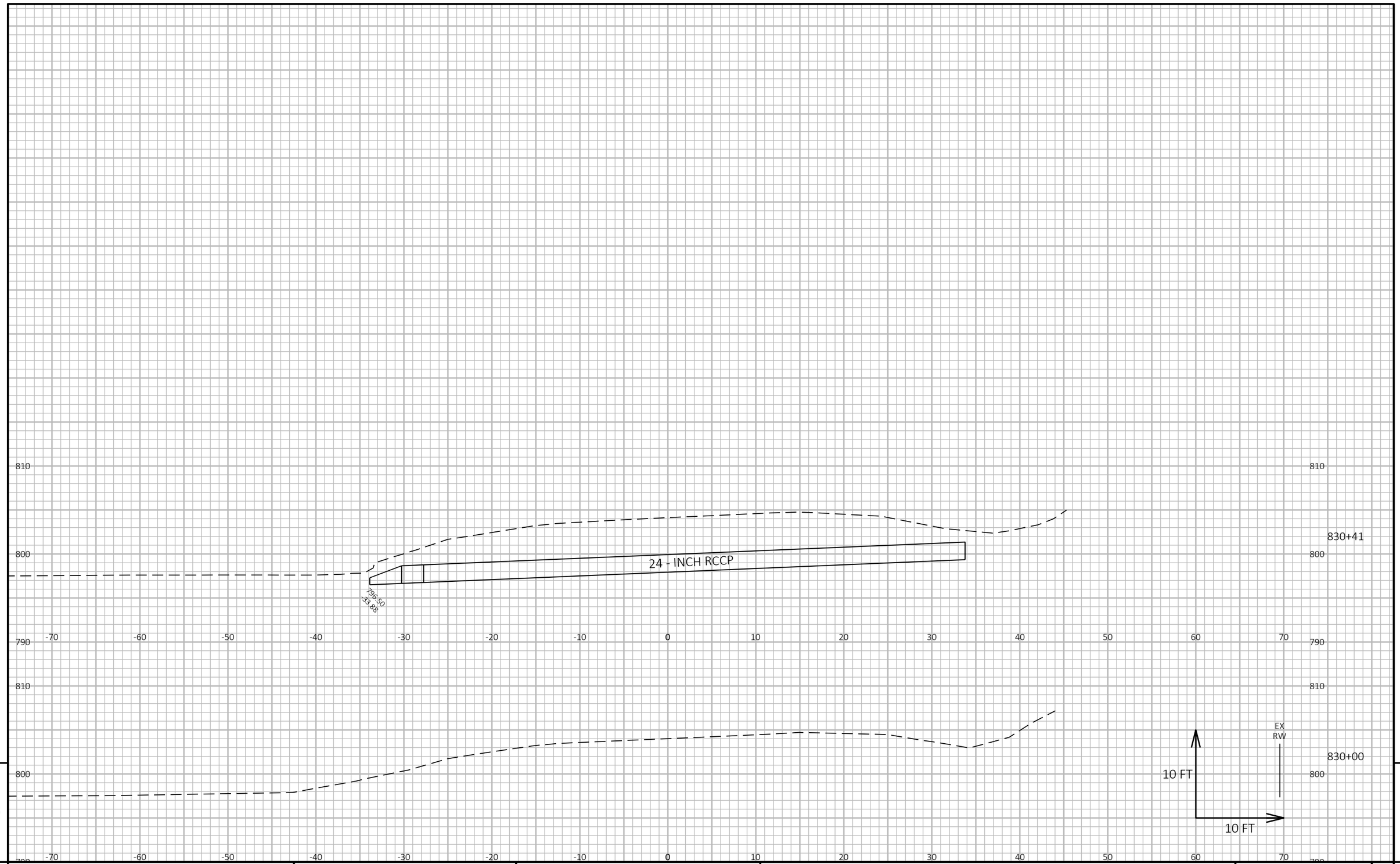
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 826+42	SHEET 239	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 826+423

PLOT DATE : 9/16/2020 10:41 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 830+41	SHEET 240	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 830+411

PLOT DATE : 9/16/2020 10:41 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

850
840
830
820
810
800
790

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

830+50

EX RW

10 FT

10 FT

9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 830+41	SHEET 241	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 830+412

PLOT DATE : 9/16/2020 10:41 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

860
850
840
830
820
810
800
790

831+00

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

10 FT
10 FT

9 9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 830+41	SHEET 242	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 830+413

PLOT DATE : 9/16/2020 10:42 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

857+53

EX RW

36-INCH RCCP

800.61
-55.80

857+50

EX RW

EX RW

857+10

857+00

EX RW

36-INCH RCCP

856+76

EX RW

799.28
43.36

10 FT

EX RW

10 FT

9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 857+10	SHEET 243	E

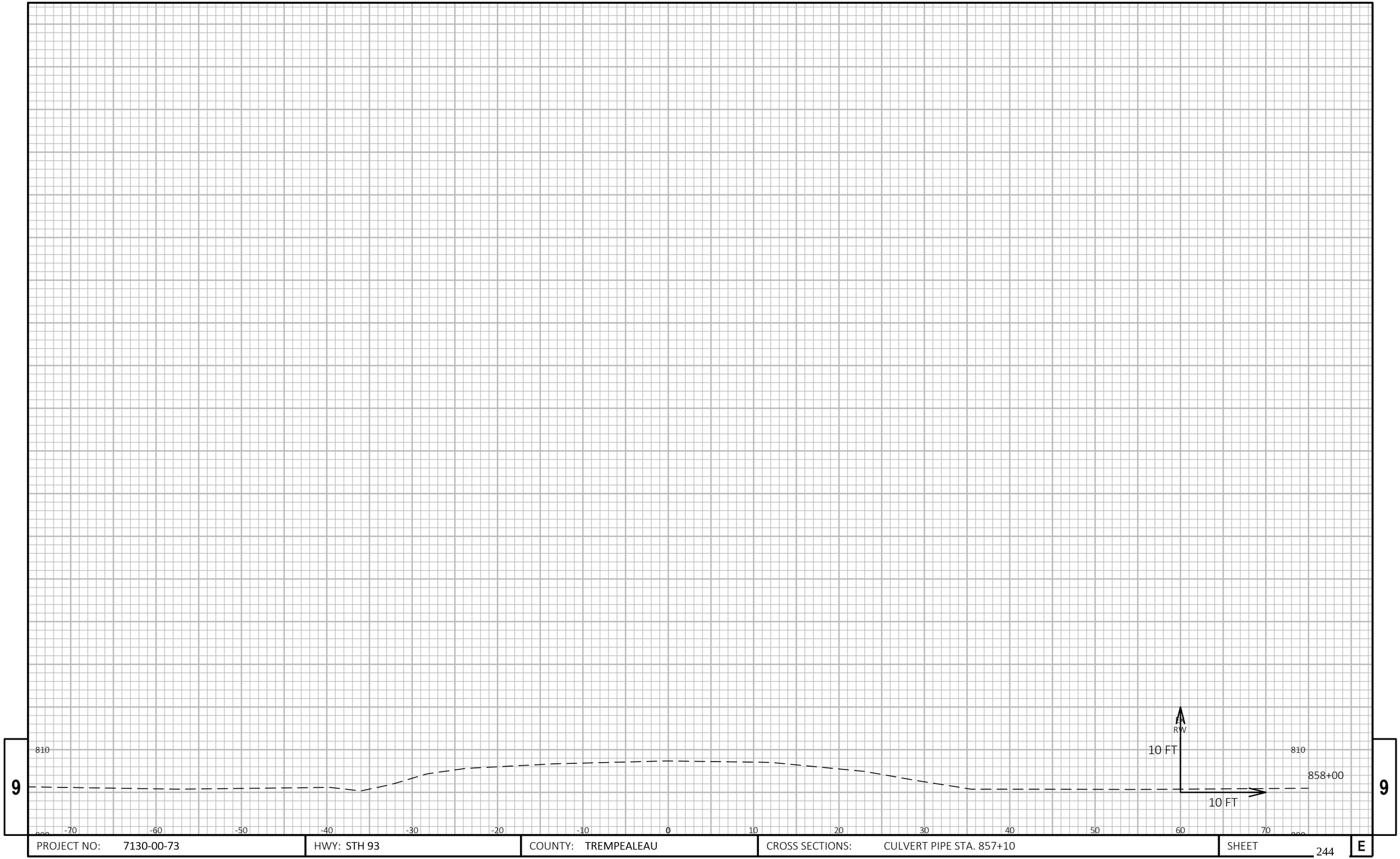
FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 857+101

PLOT DATE : 9/16/2020 10:42 AM

PLOT BY : UEHLING, ANDREW E

PLOT NAME :

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



9

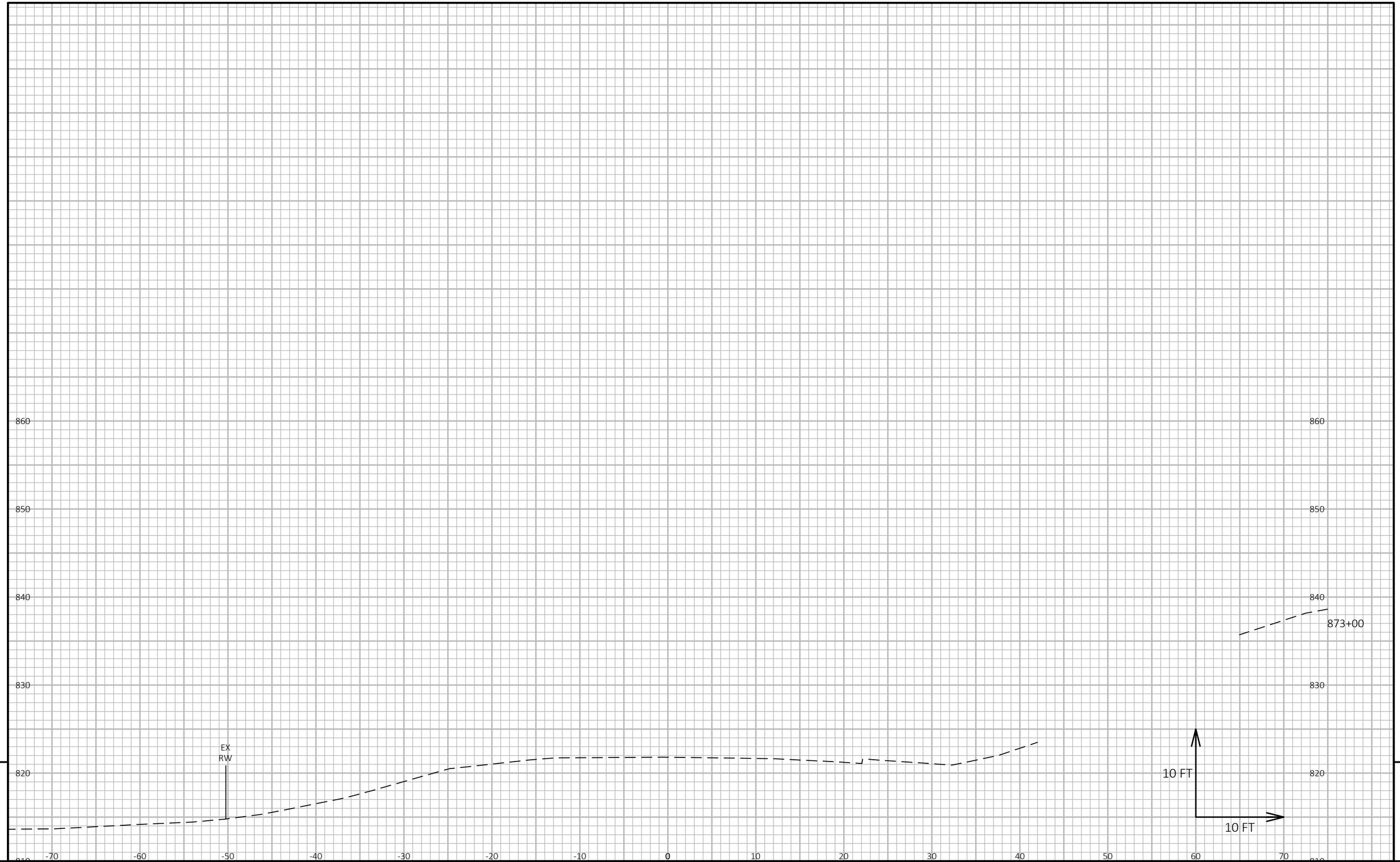
9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 857+10	SHEET 244	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 857+102

PLOT DATE : 9/16/2020 10:42 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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



9

9

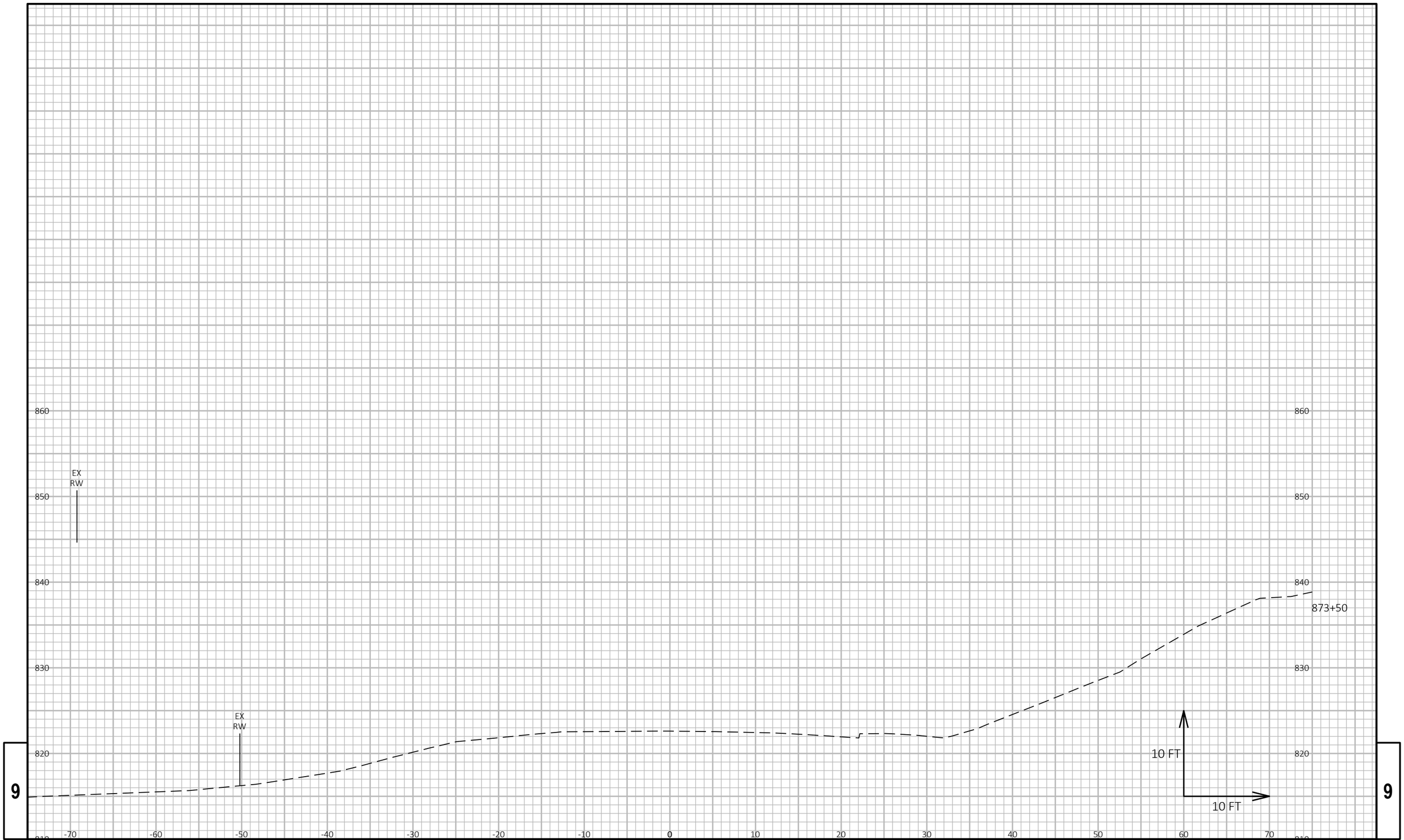
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 873+80	SHEET 245	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 873+801

PLOT DATE : 9/16/2020 10:42 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 873+80	SHEET 246	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 873+802

PLOT DATE : 9/16/2020 10:43 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

860

850

840

830

820

EX RW

EX RW

2 x 3 - FT INLET PRECAST

24 INCH RCCP

2 GRATE PRECAST

873+80

10 FT

10 FT

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

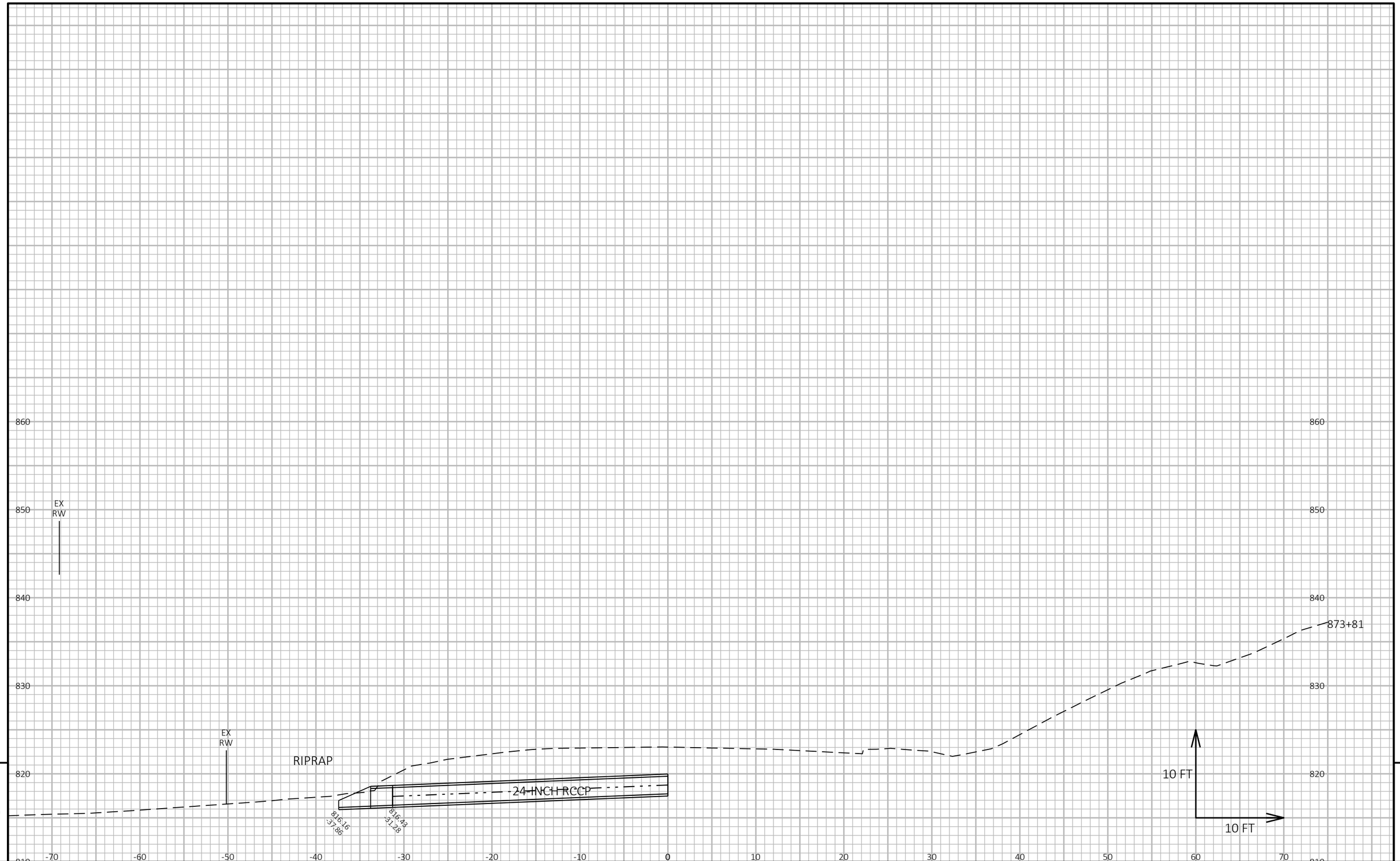
9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 873+80	SHEET 247	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 873+803

PLOT DATE : 9/16/2020 10:43 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

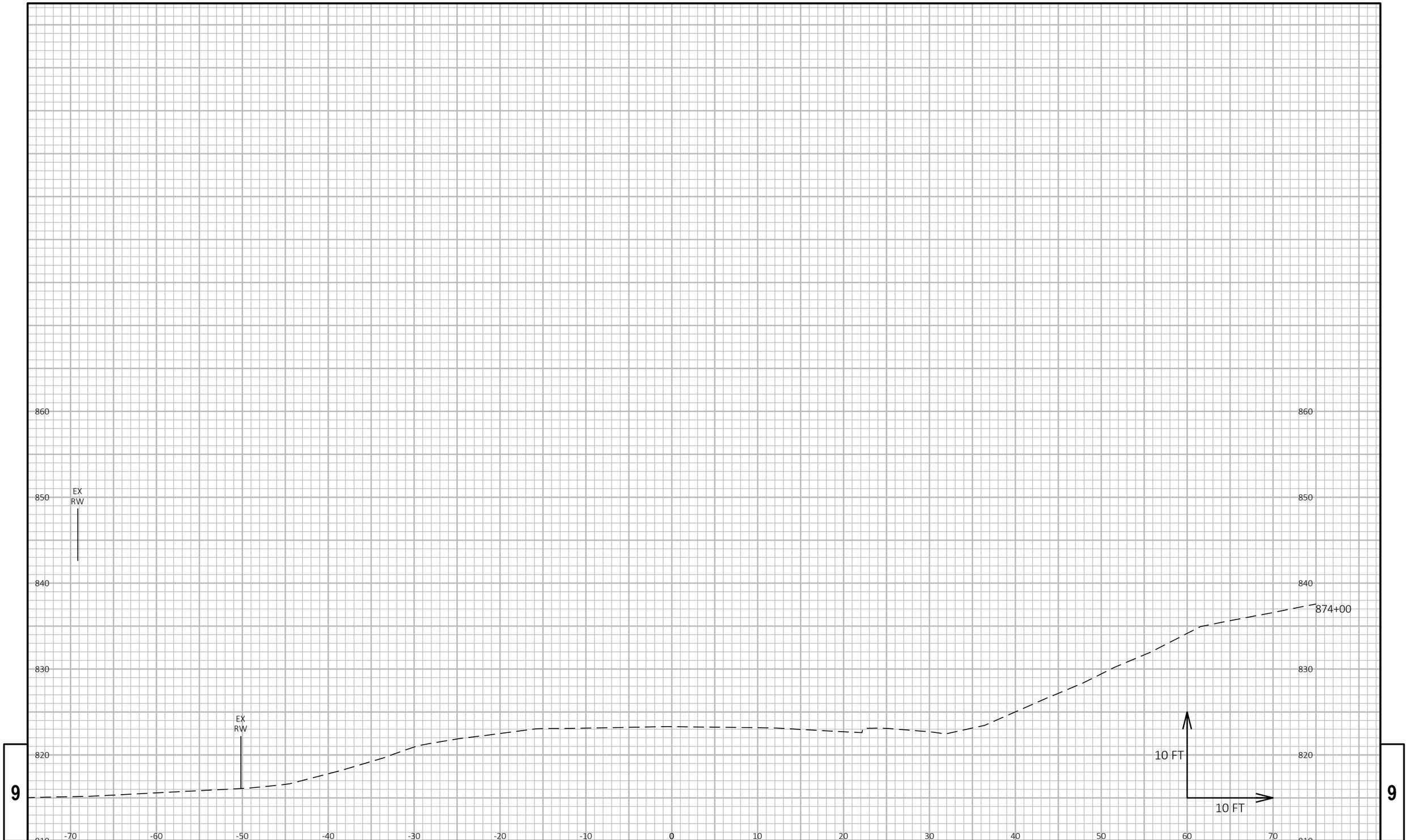
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 873+80	SHEET 248	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 873+804

PLOT DATE : 9/16/2020 10:43 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 873+80	SHEET 249	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 873+805

PLOT DATE : 9/16/2020 10:43 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

860 860

850 850

840 840

876+00

830 830

EX
RW

820 820

10 FT

10 FT

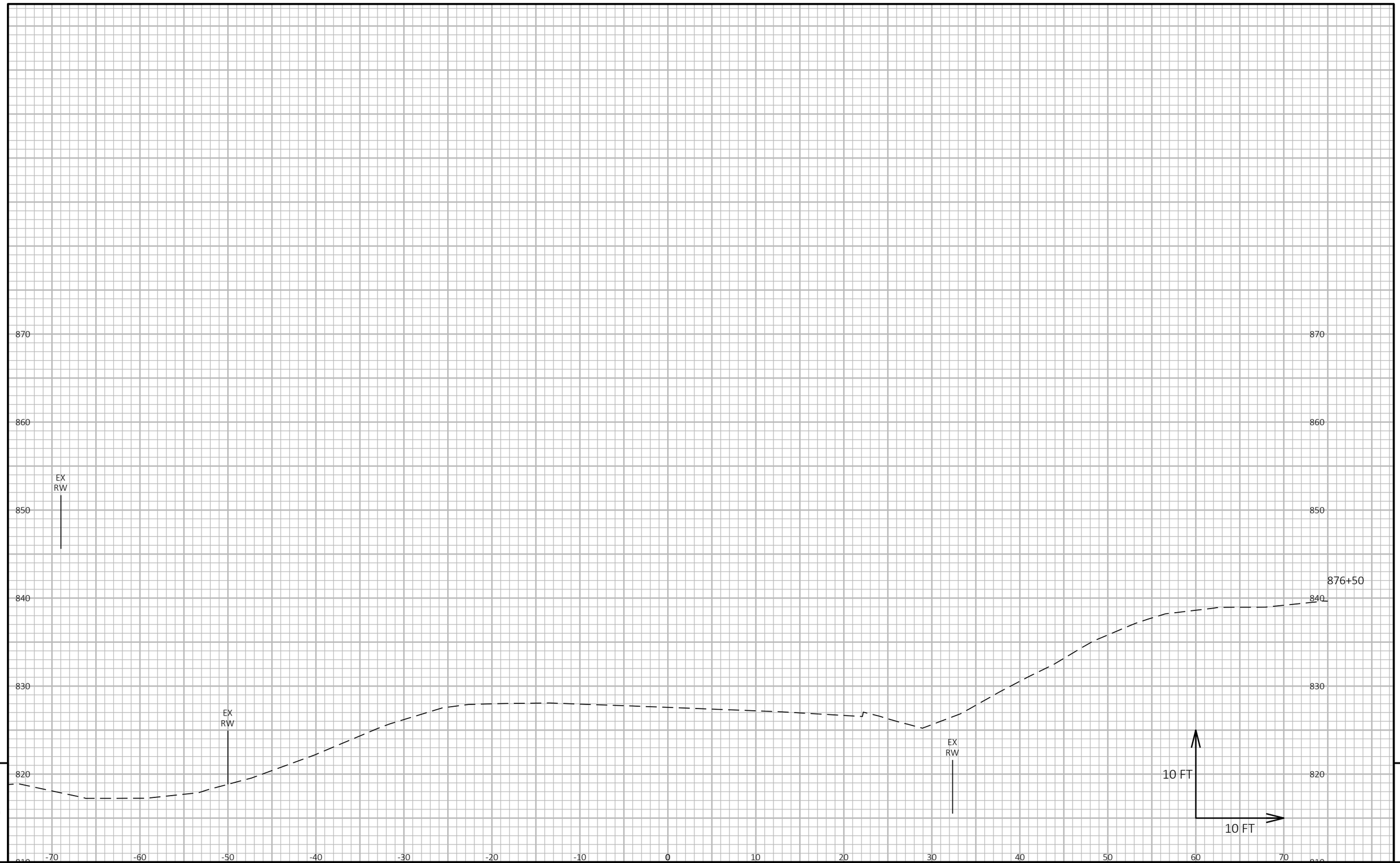
9 9

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 876+75	SHEET 250	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - pipe_876+751

PLOT DATE : 9/16/2020 10:44 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

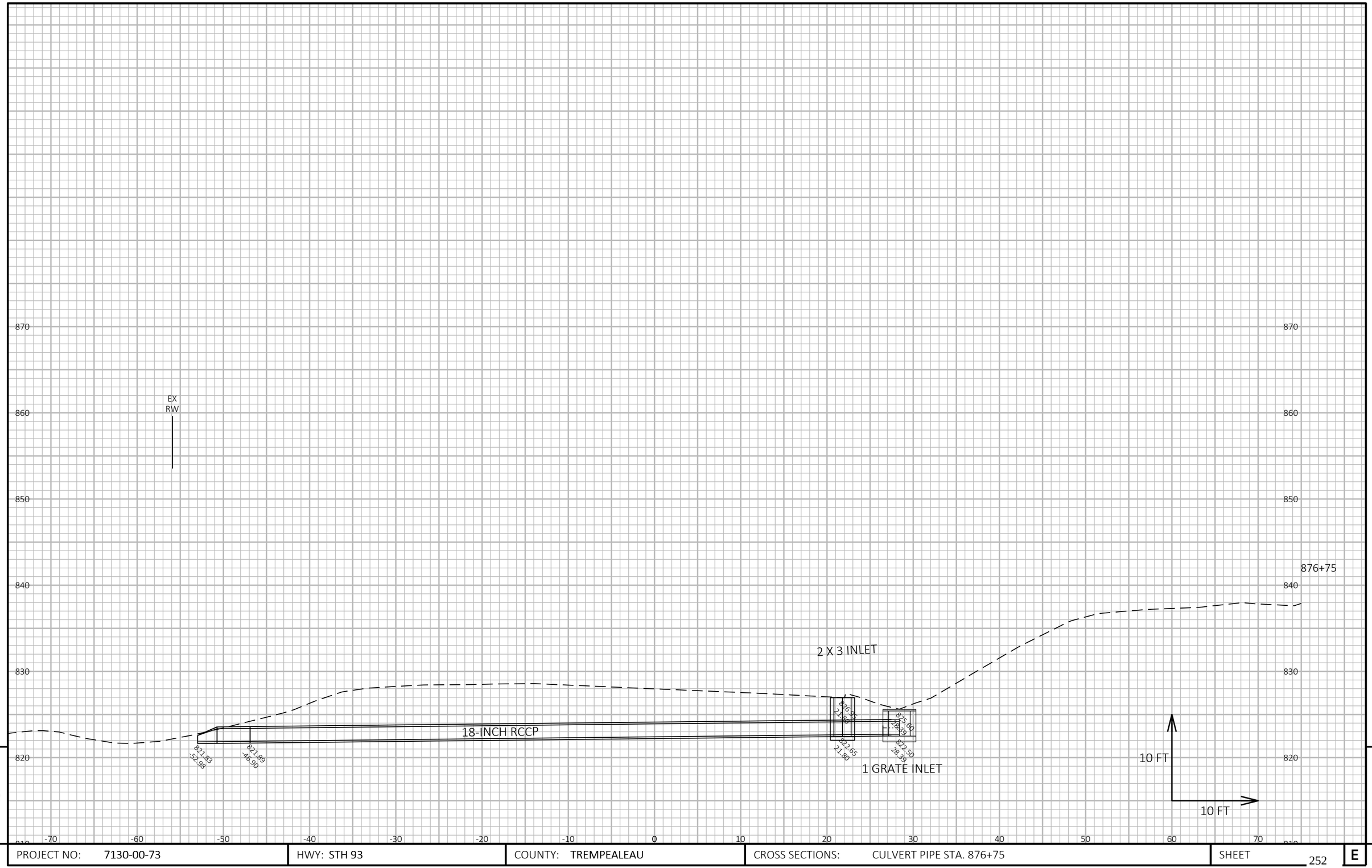
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 876+75	SHEET 251	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - pipe_876+752

PLOT DATE : 9/16/2020 10:44 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

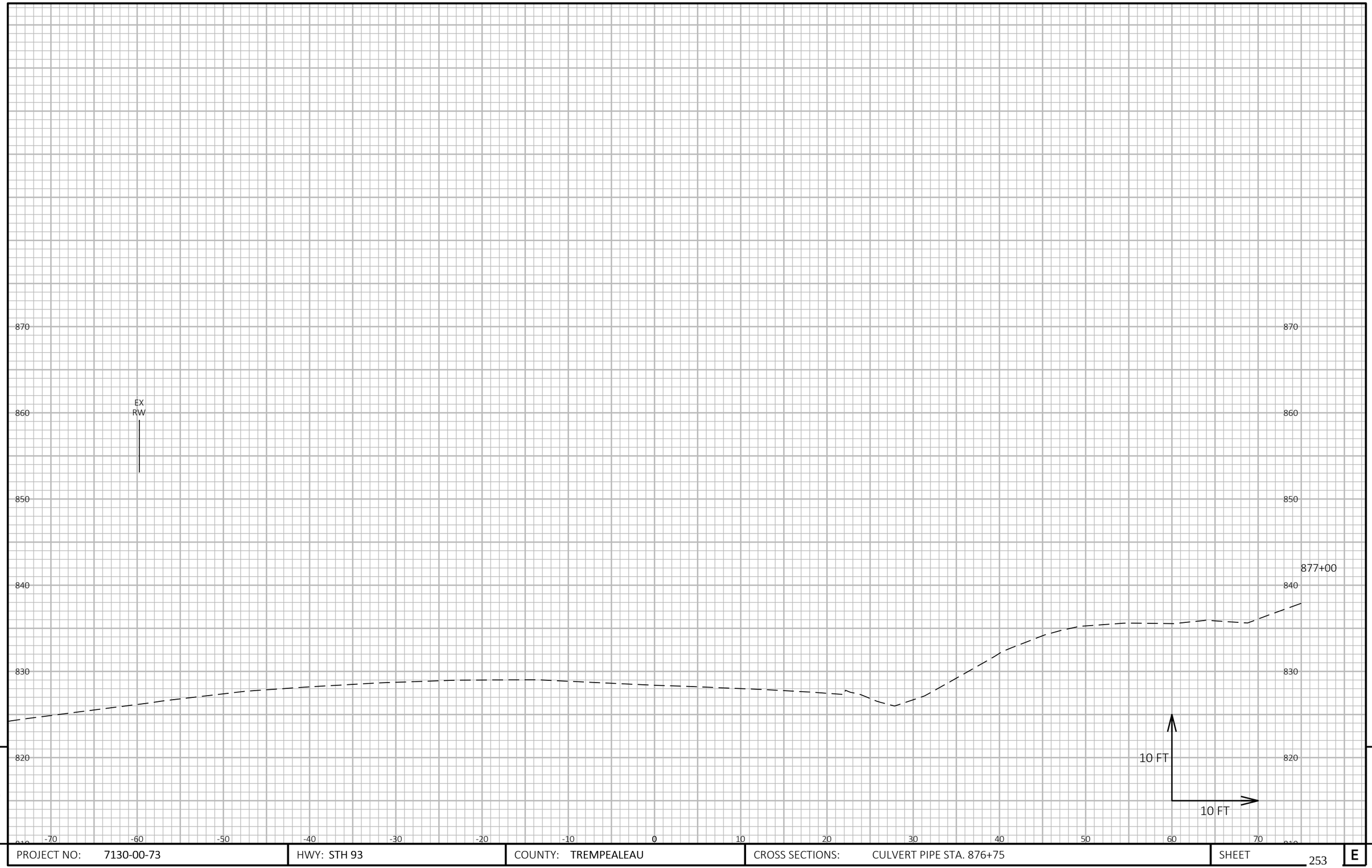
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 876+75	SHEET 252	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - pipe_876+753

PLOT DATE : 9/16/2020 10:44 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



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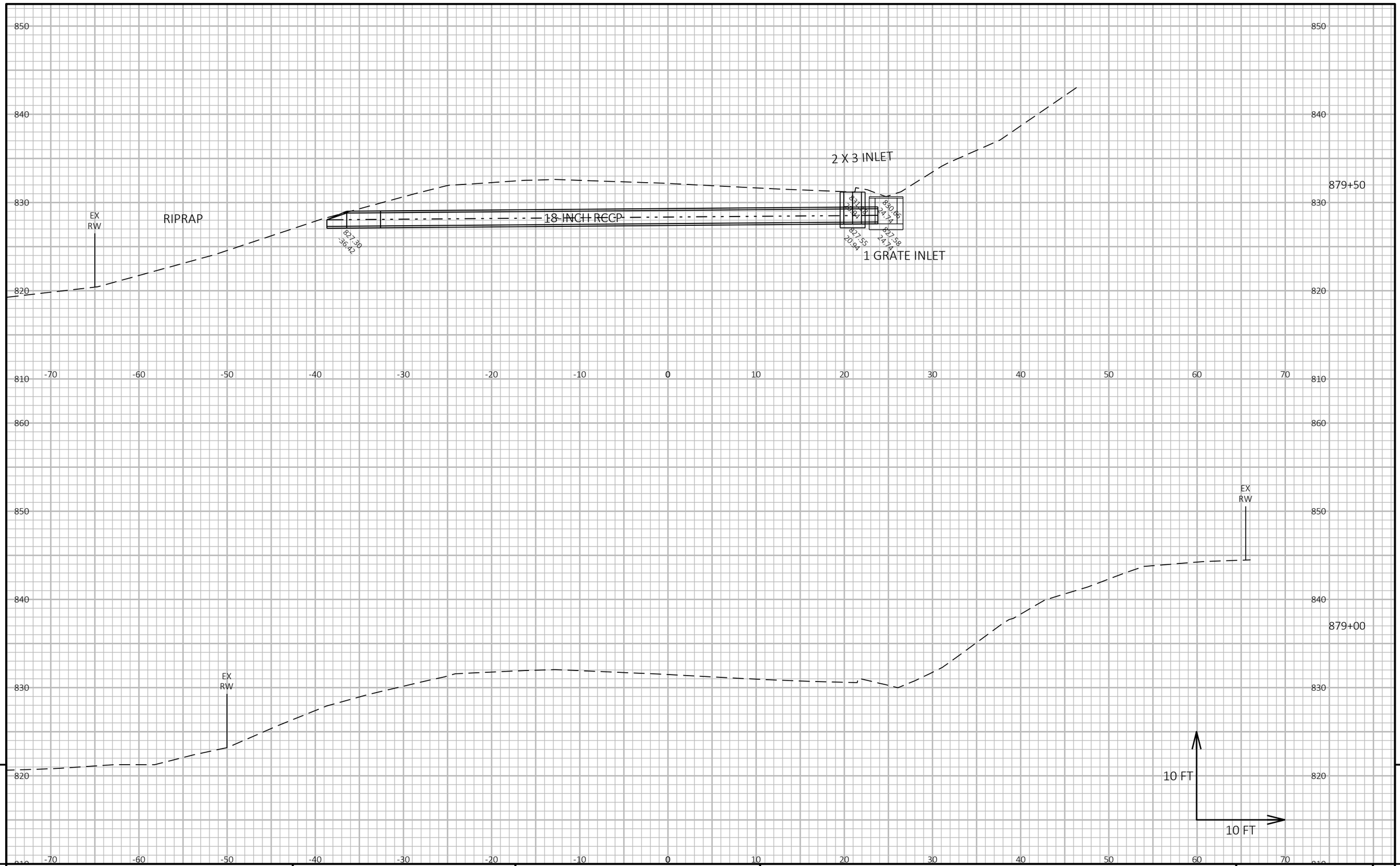
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 876+75	SHEET 253	E

9

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - pipe_876+754

PLOT DATE : 9/16/2020 10:44 AM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE 879+50	SHEET 254	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 879+501

PLOT DATE : 9/16/2020 10:45 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

9

9

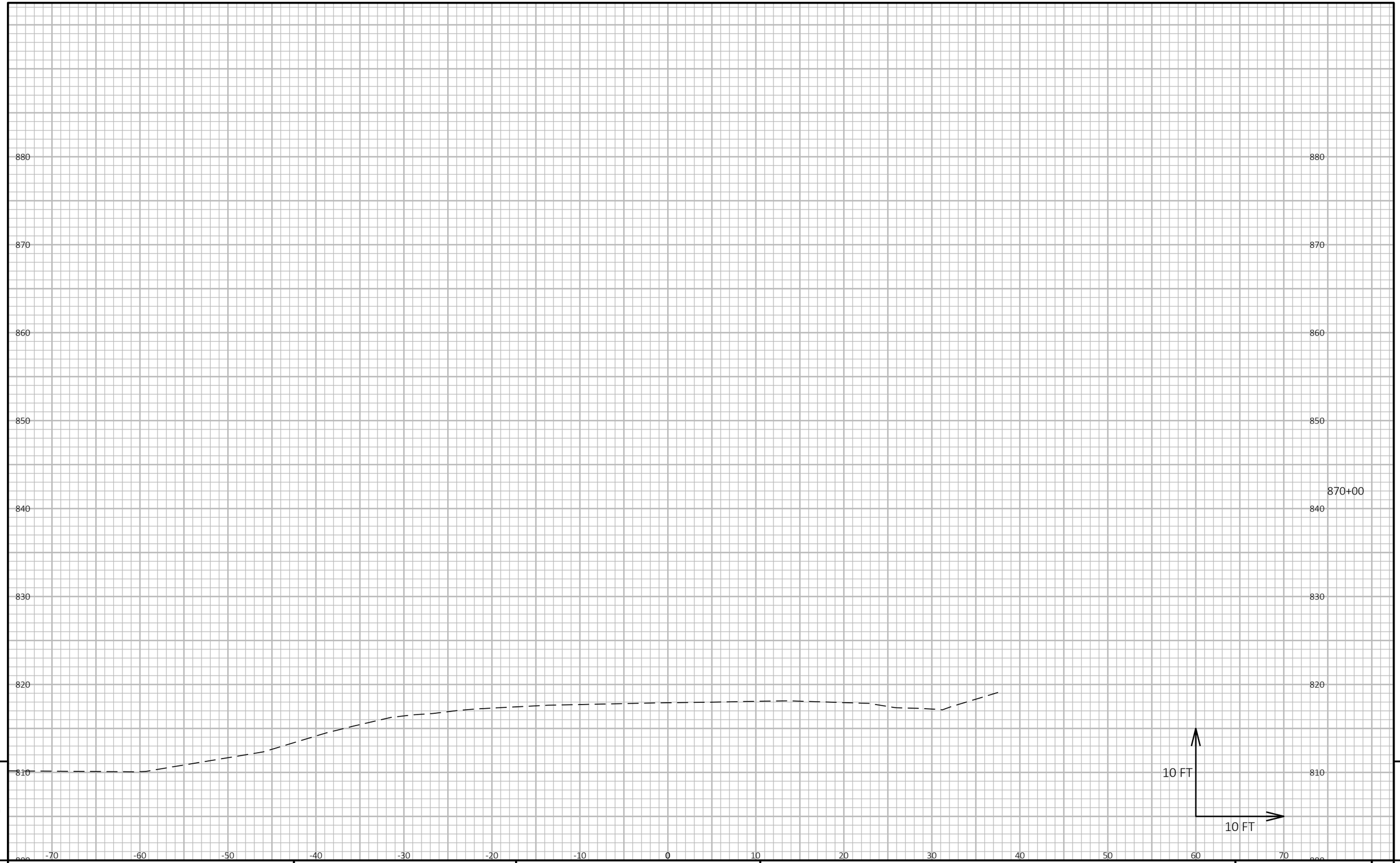
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE 879+50	SHEET 255	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 879+502

PLOT DATE : 9/16/2020 10:45 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT _PIPE STA. 870+50	SHEET 256	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 870+501

PLOT DATE : 9/16/2020 10:45 AM

PLOT BY : UEHLING, ANDREW E

PLOT NAME :

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

880
870
860
850
840
830
820
810
800

EX
RW

870+50

PROPOSED INLET, RT.

18 INCH RCCP

2 X 3 INLET

PROPOSED INLET, RT.

1 GRATE INLET

10 FT

10 FT

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT _PIPE STA. 870+50	SHEET 257	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 870+502

PLOT DATE : 9/16/2020 10:45 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

870
860
850
840
830
820
810
800

EX
RW

EX
RW

871+00

10 FT
10 FT

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT _PIPE STA. 870+50	SHEET 258	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 870+503

PLOT DATE : 9/16/2020 10:45 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

850
840
830
820
810
800
790
821+50
EX
RW
10 FT
10 FT
-70
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
9
9

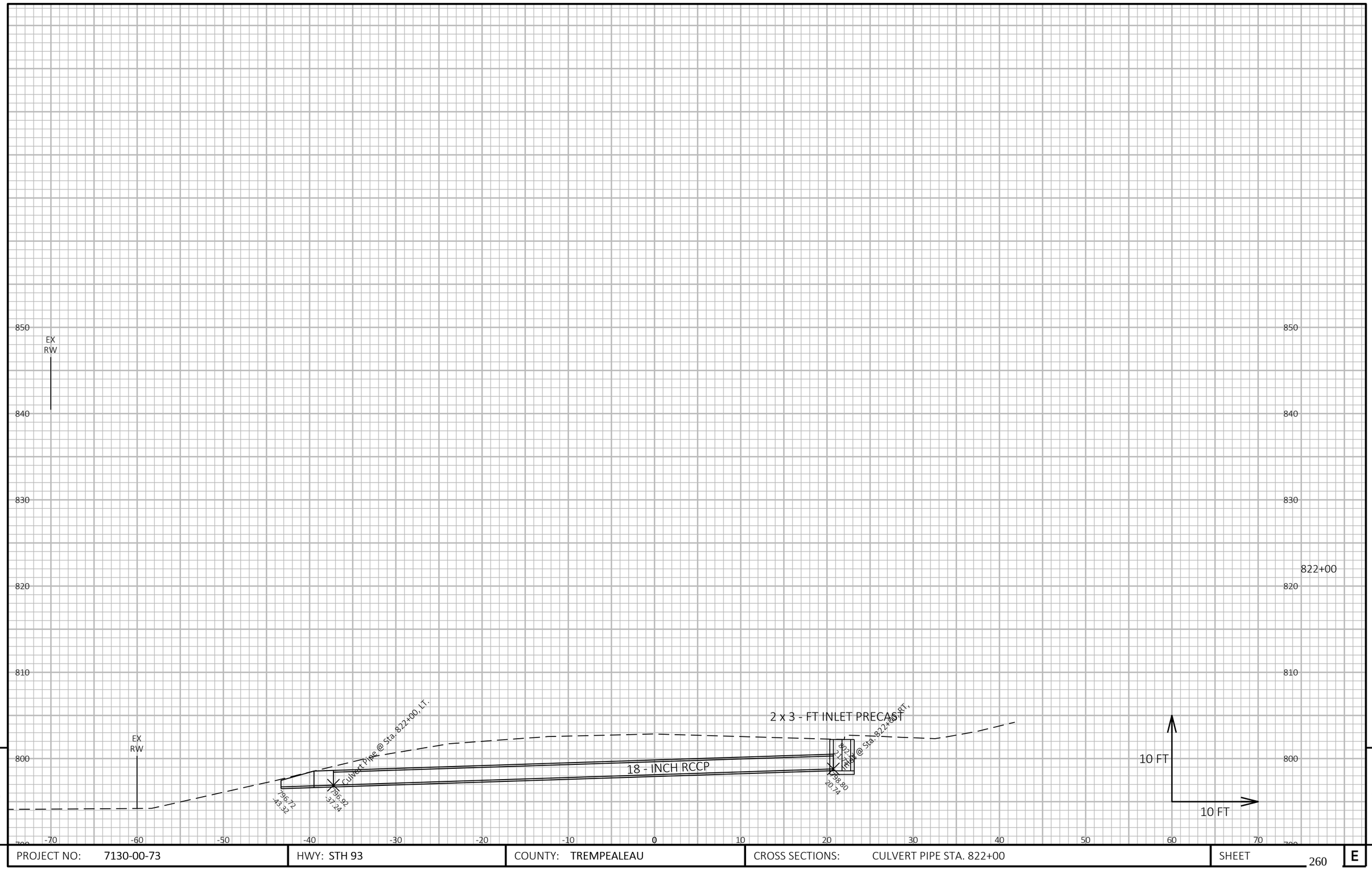
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: SECTION VIEW GROUP - 14	SHEET 259	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 822+001

PLOT DATE : 9/16/2020 10:46 AM PLOT BY : UEHLING, ANDREW E 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: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE STA. 822+00	SHEET 260	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 822+002

PLOT DATE : 9/16/2020 10:46 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

EX
RW

EX
RW

840

830

820

822+50

810

800

790

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

10 FT

10 FT

9

9

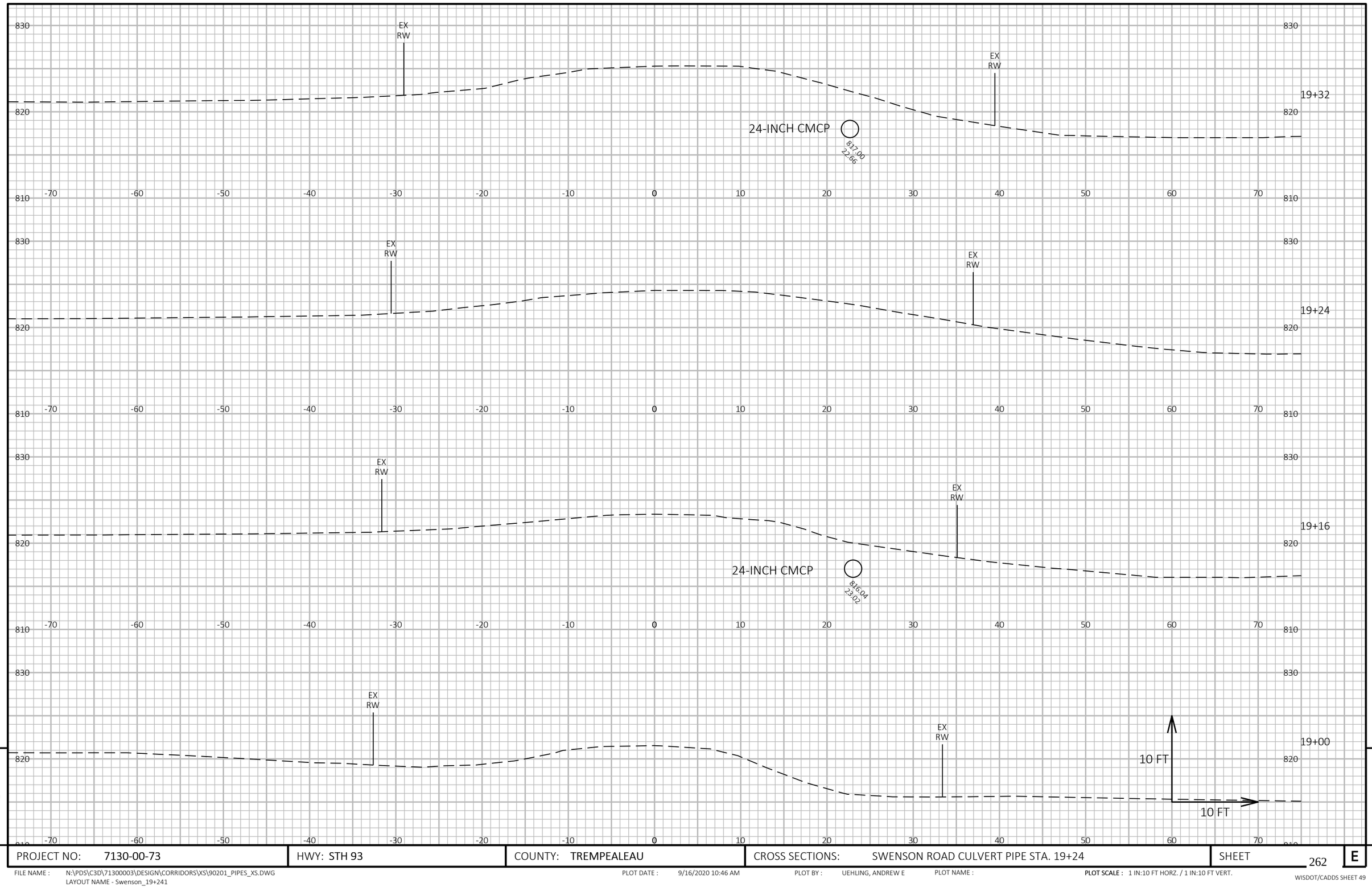
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: SECTION VIEW GROUP - 14	SHEET 261	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 822+003

PLOT DATE : 9/16/2020 10:46 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

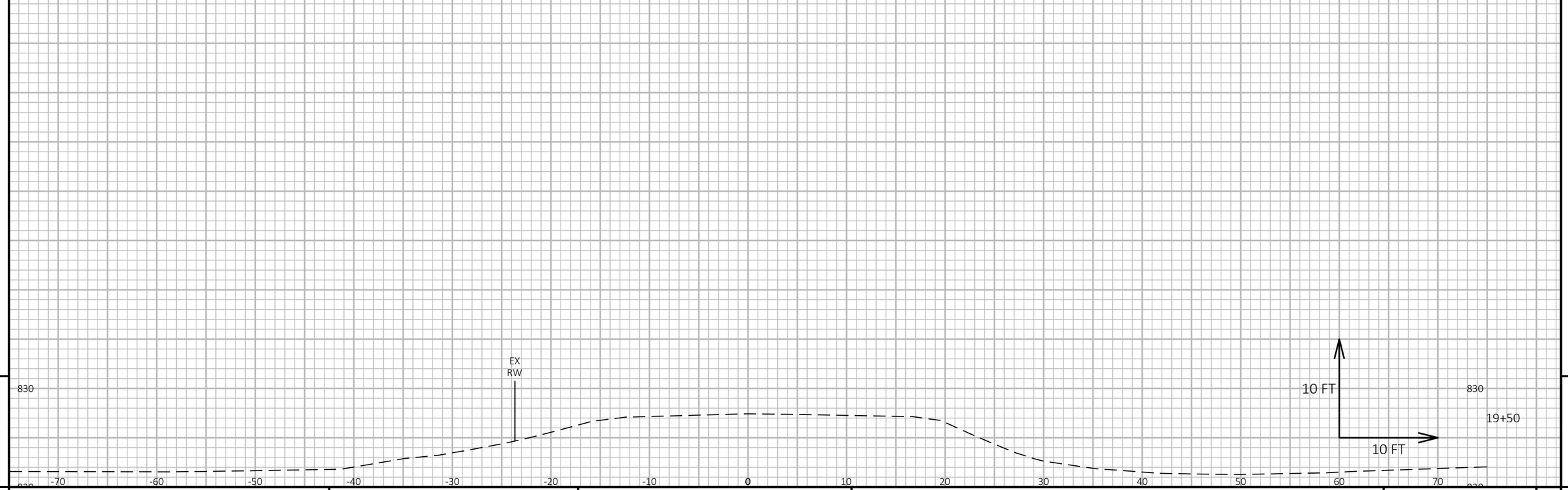
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: SWENSON ROAD CULVERT PIPE STA. 19+24	SHEET 262	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - Swenson_19+241

PLOT DATE : 9/16/2020 10:46 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: SWENSON ROAD CULVERT PIPE STA. 19+24	SHEET 263	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - Swenson_19+242

PLOT DATE : 9/16/2020 10:47 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

857+53

36-INCH RCCP

800.61
-55.80

800.50
-47.86

EX RW

857+50

EX RW

857+10

EX RW

857+00

EX RW

EX RW

856+76

36-INCH RCCP

799.38
35.22

799.28
43.36

EX RW

856+50

EX RW

10 FT

10 FT

9

9

PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE 857+10	SHEET 264	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 857+10_363

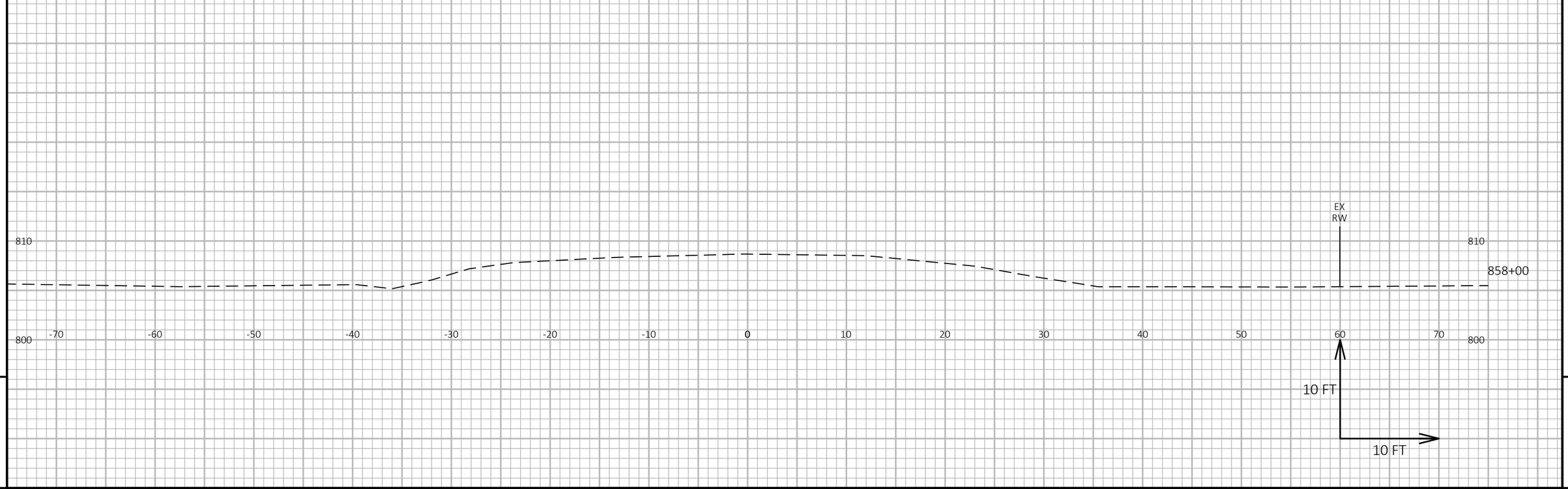
PLOT DATE : 9/16/2020 10:47 AM

PLOT BY : UEHLING, ANDREW E

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

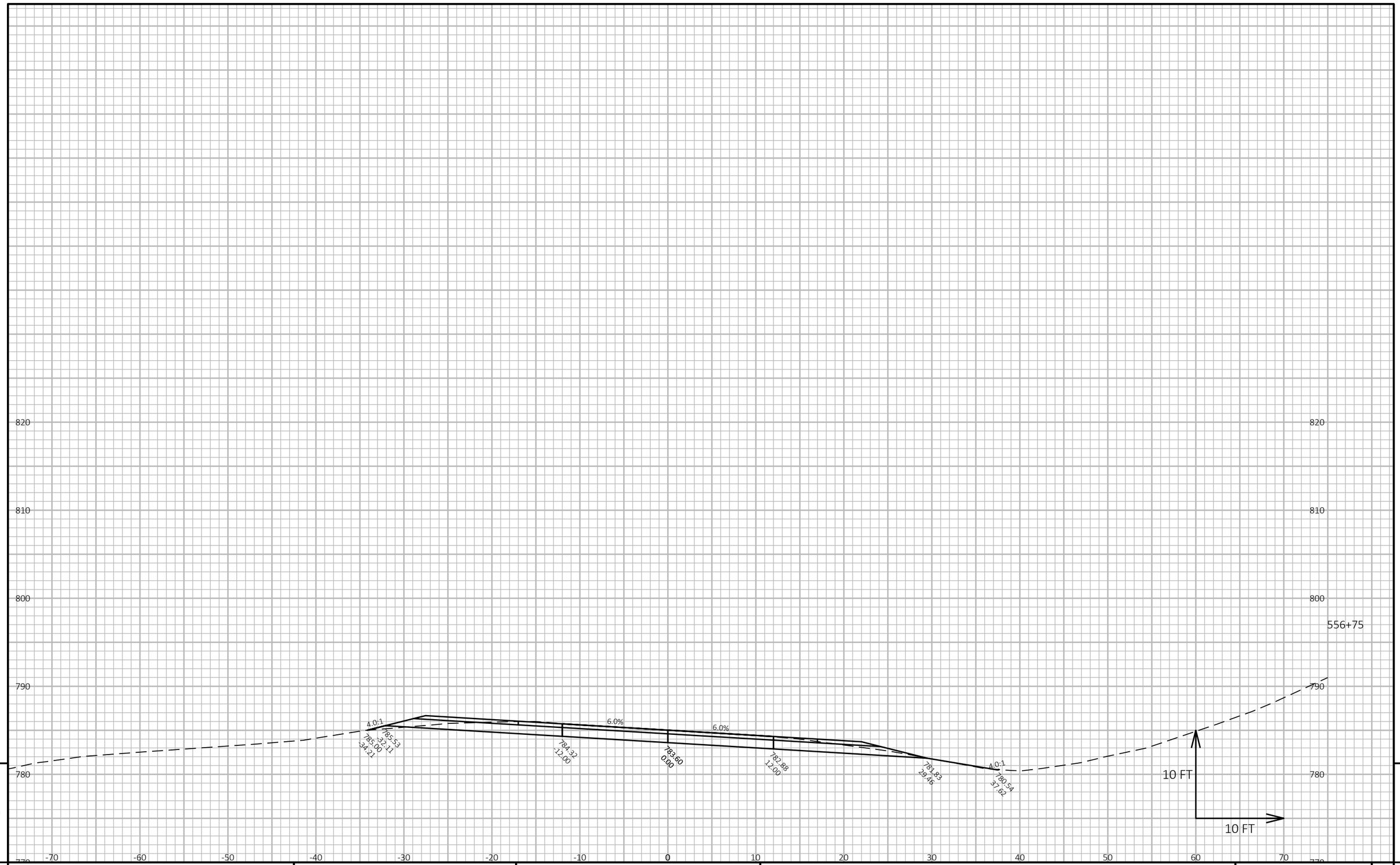
PROJECT NO: 7130-00-73	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: CULVERT PIPE 857+10	SHEET 265	E

FILE NAME : N:\PDS\C3D\71300003\DESIGN\CORRIDORS\XS\90201_PIPES_XS.DWG
LAYOUT NAME - 857+10_364

PLOT DATE : 9/16/2020 10:47 AM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 266	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+001

PLOT DATE : 9/16/2020 12:11 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

820

810

800

790

780

770

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

556+89

POST #1

4.0:1

784.14
-39.54

785.64
-33.51

784.35
-12.00

783.63
0.00

782.91
12.00

782.06
26.47

780.86
34.57

6.0%

6.0%

10 FT

10 FT

9

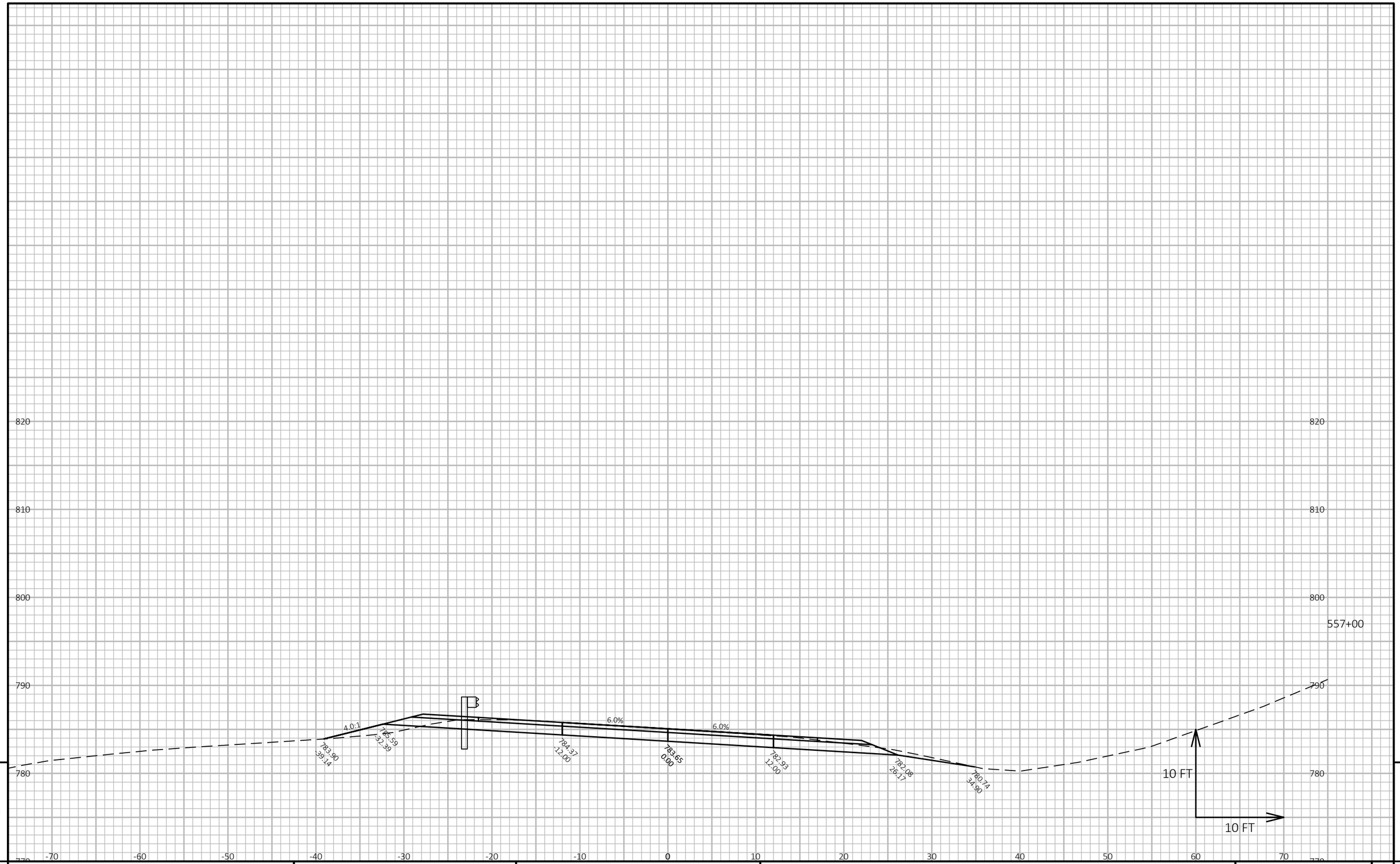
9

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 267	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+002

PLOT DATE : 9/16/2020 12:11 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

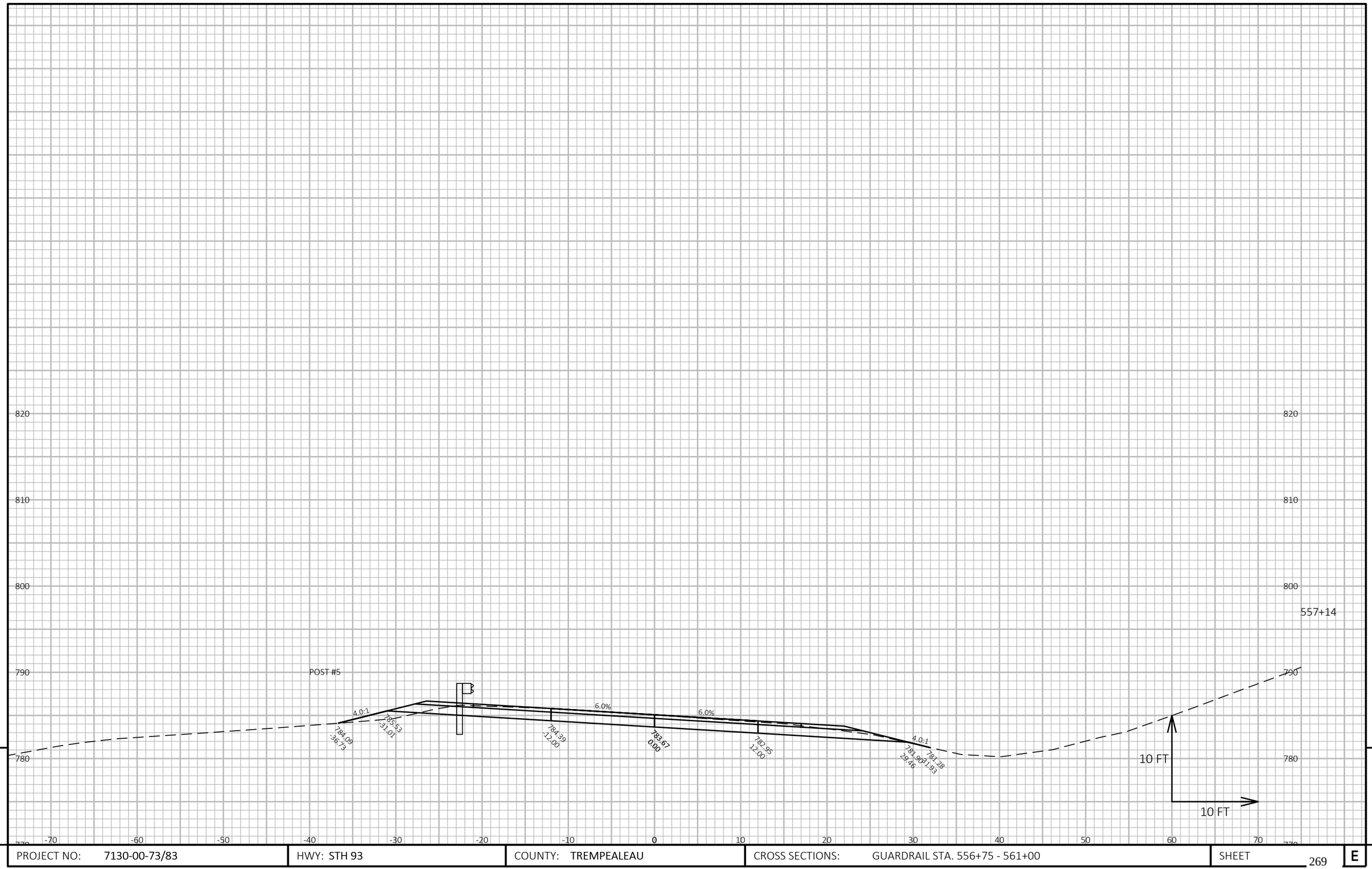
9

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 268	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+003

PLOT DATE : 9/16/2020 12:11 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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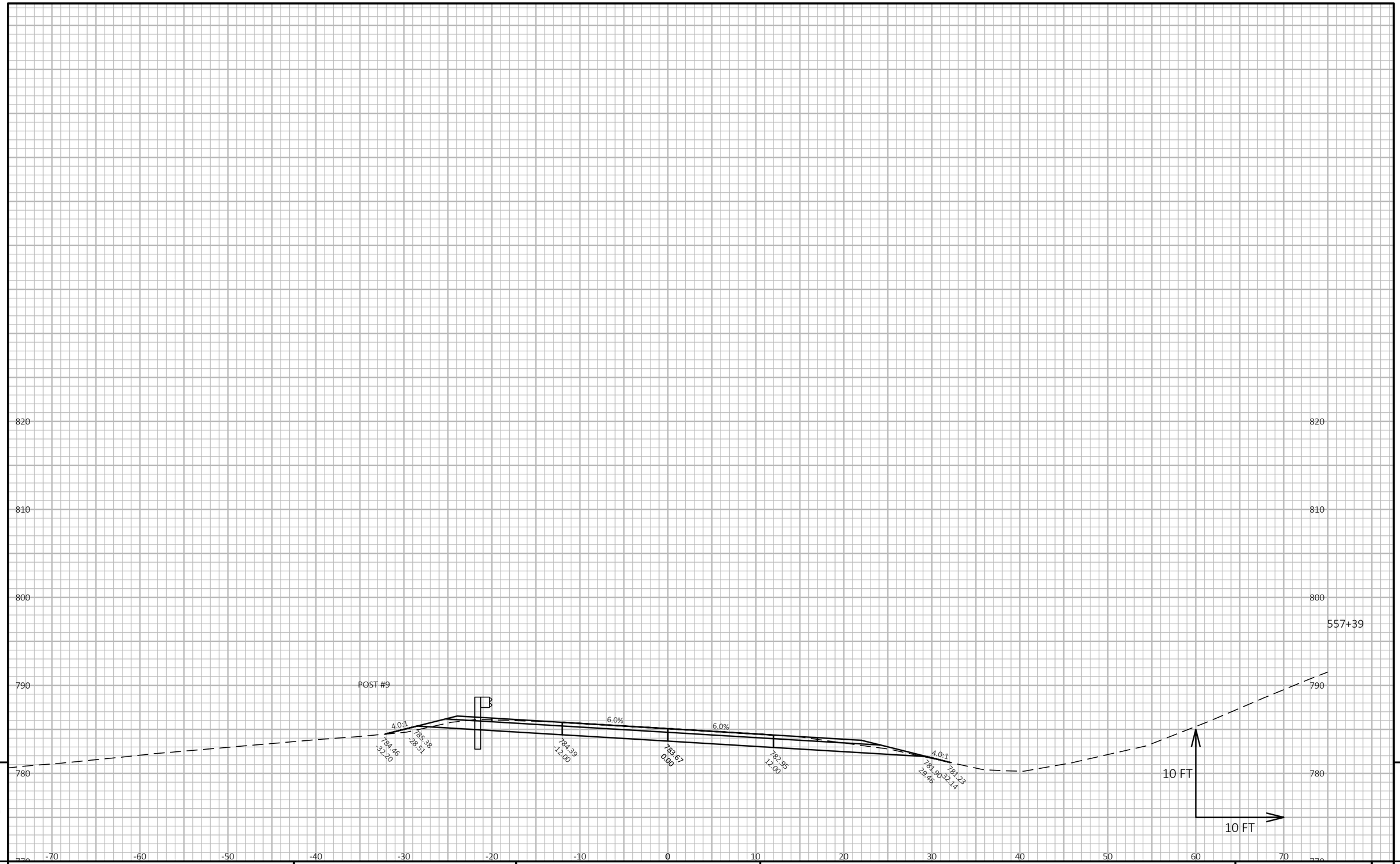
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 269	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+004

PLOT DATE : 9/16/2020 12:11 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

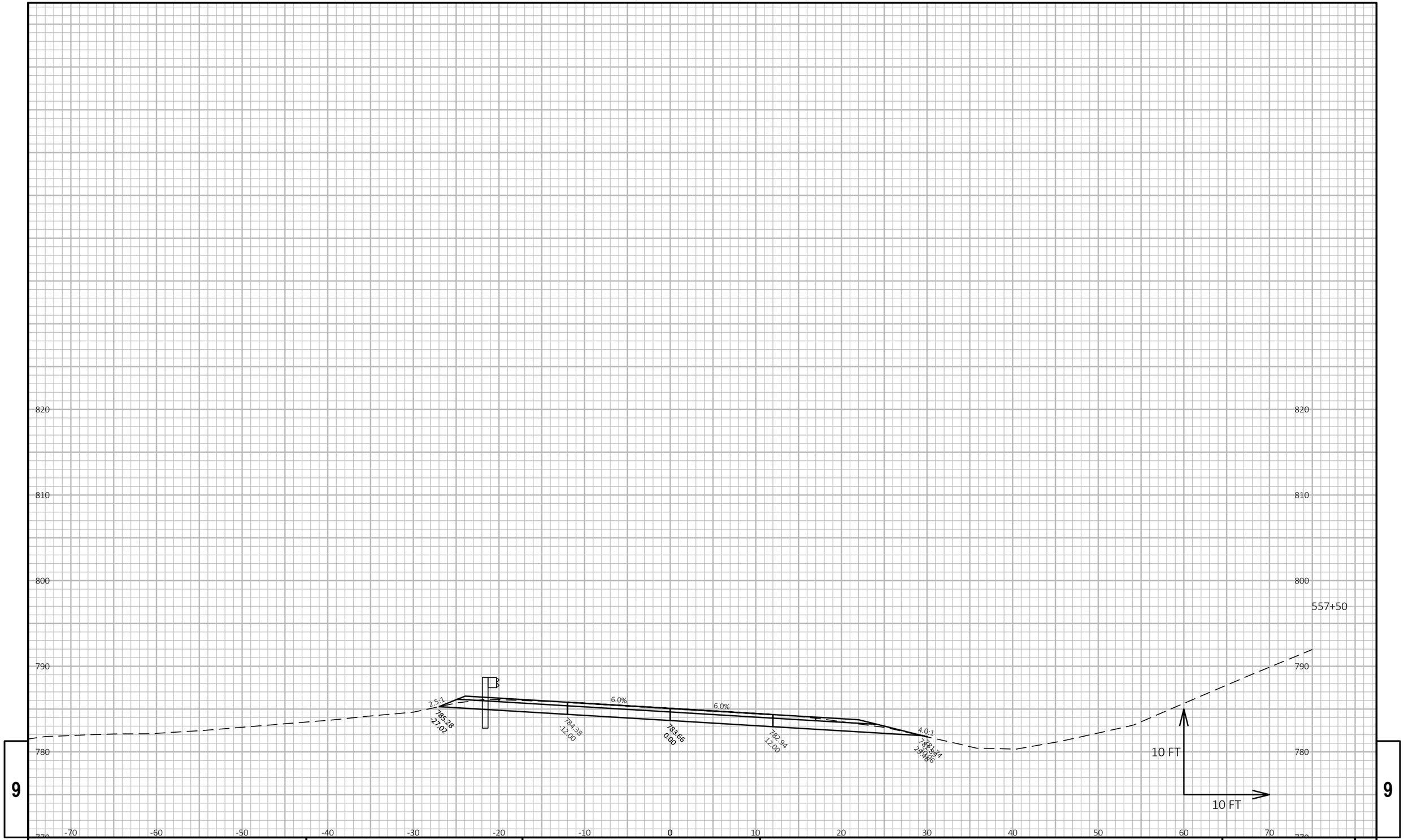
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 270	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+005

PLOT DATE : 9/16/2020 12:11 PM PLOT BY : UEHLING, ANDREW E 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: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 271	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+006

PLOT DATE : 9/16/2020 12:11 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

820 820

810 810

800 800

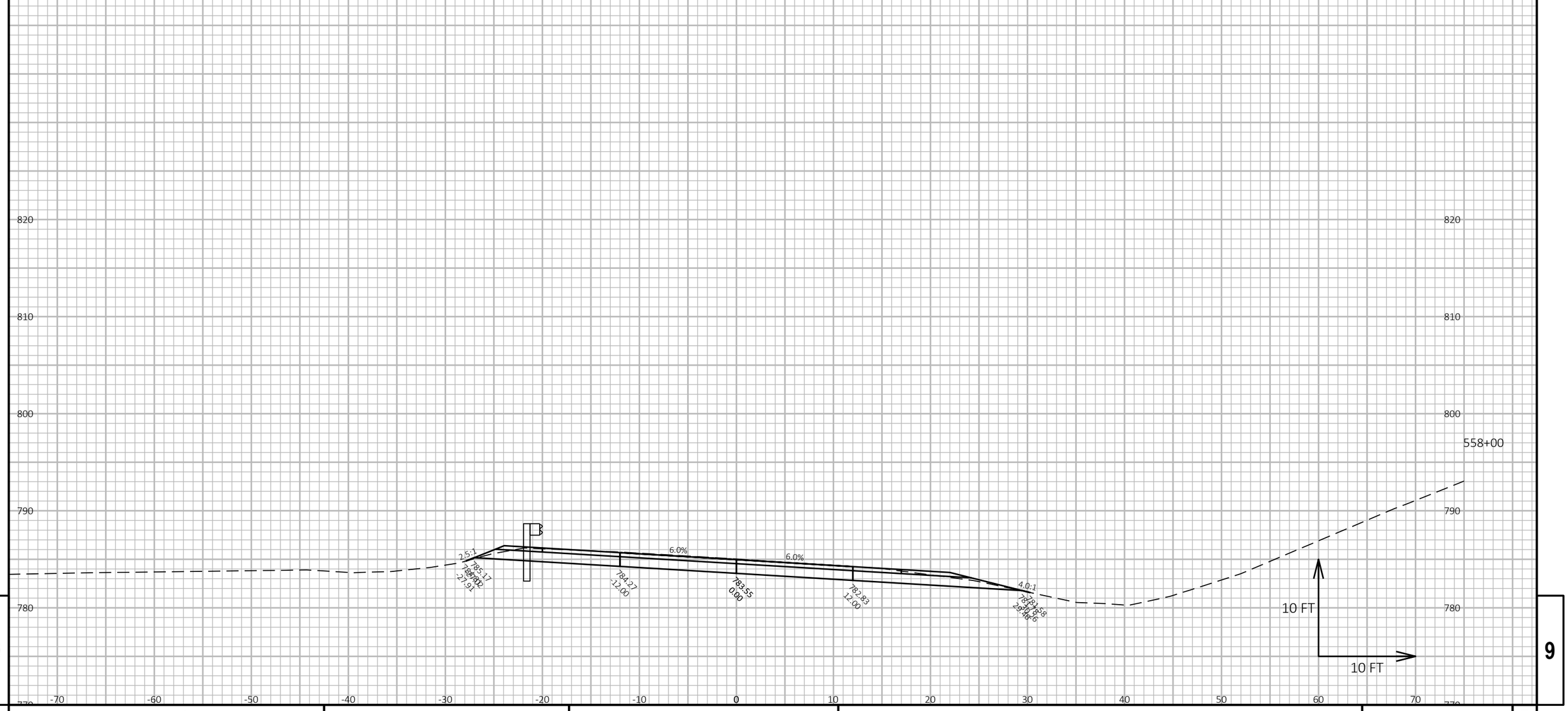
790 790

780 780

770 770

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

558+00



9 9

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 272	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+007

PLOT DATE : 9/16/2020 12:12 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

820

810

800

790

780

770

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

558+50

2.5:1

784.84
-27.22

784.04
-12.00

6.0%

6.0%

783.32
0.00

782.60
-12.00

4.0:1

781.05
781.55
29.46

10 FT

10 FT

9

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 273	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+008

PLOT DATE : 9/16/2020 12:12 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

820 820

810 810

800 800

790 790

780 780

559+00

783.16
-10.98

0.0:1

784.60
-27.02

783.69
-12.00

6.0%

782.97
0.00

6.0%

782.25
-12.00

4.0:1

784.21
-29.46

780.30
-33.07

10 FT

10 FT

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9 9

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 274	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+009

PLOT DATE : 9/16/2020 12:12 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

820

810

800

790

780

770

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

559+50

784.13
-27.02
783.40
-28.83

783.23
-12.00

6.0%

783.51
0.00

6.0%

781.79
-12.00

4.0:1

780.74
29.46

779.05
36.22

10 FT

10 FT

9

9

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 275	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+0010

PLOT DATE : 9/16/2020 12:12 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

820 820

810 810

800 800

790 790

780 780

560+00

781.99
-30.92

783.55
-27.02

782.66
-12.00

781.95
0.00

781.23
12.00

780.20
29.43

778.93
37.03

5.9%

5.9%

10 FT

10 FT

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9 9

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 276	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+0011

PLOT DATE : 9/16/2020 12:12 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

820

810

800

790

780

770

POST #9

4.0:1

784.37
-55.49

783.07
-38.67

5.0%

782.25
-12.00

781.65
0.00

5.0%

781.06
12.00

4.0:1

780.21
29.07

778.74
34.97

4.0:1

560+39

10 FT

10 FT

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

9

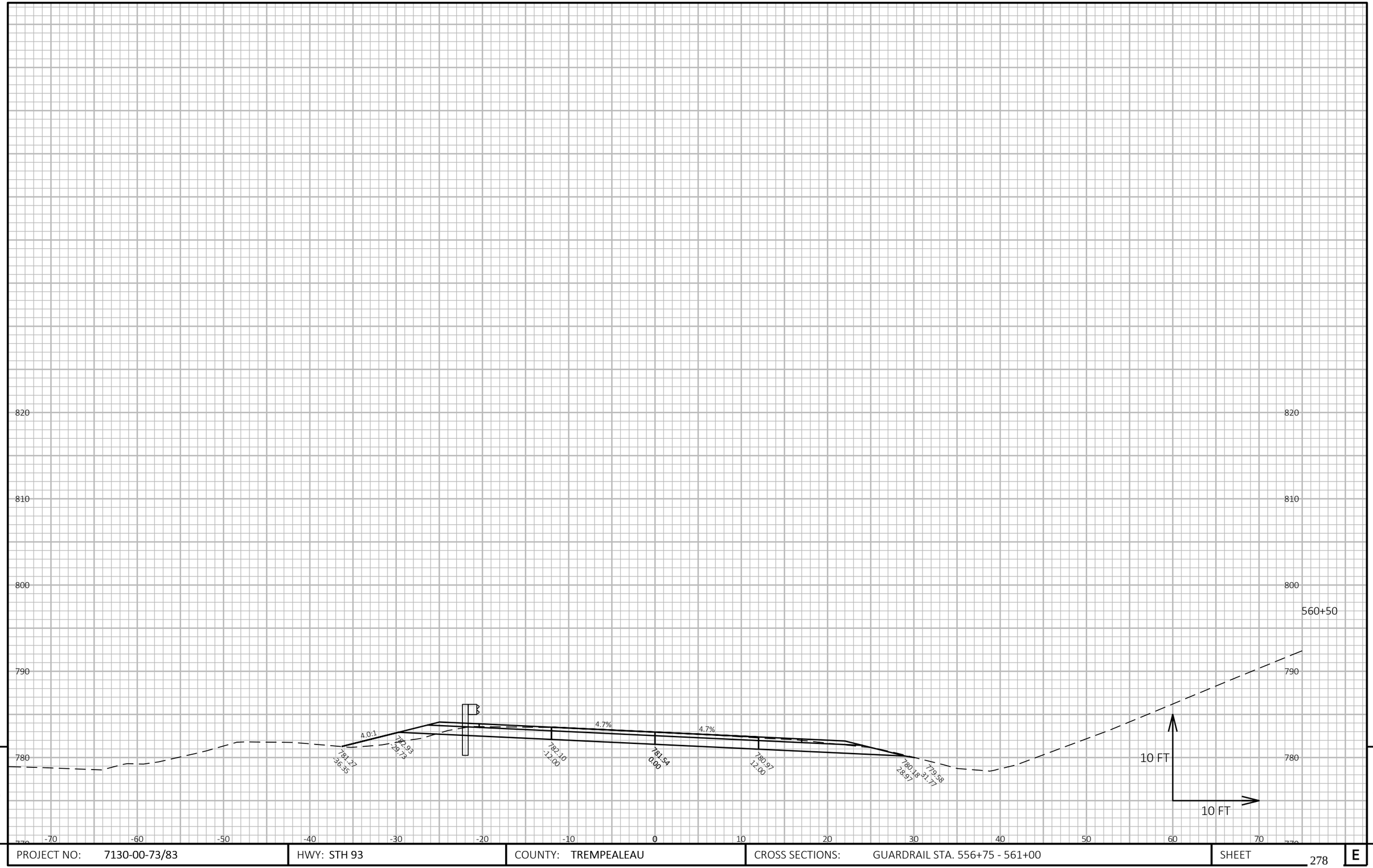
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 277	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+0012

PLOT DATE : 9/16/2020 12:12 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 278	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+0013

PLOT DATE : 9/16/2020 12:12 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

820

810

800

790

780

770

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

POST #5

4.0:1

780.96
-37.89

781.61
-31.27

781.78
-12.00

781.26
0.00

780.74
12.00

780.31
21.99

4.3%

4.3%

560+64

10 FT

10 FT

9

9

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 279	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+0014

PLOT DATE : 9/16/2020 12:12 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

820

810

800

790

780

770

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

560+89

POST #1

4.0:1

780.22
23.87

780.42
41.06

781.40
-12.00

780.96
0.00

780.52
-12.00

780.44
21.99

3.7%

3.7%

10 FT

10 FT

9

9

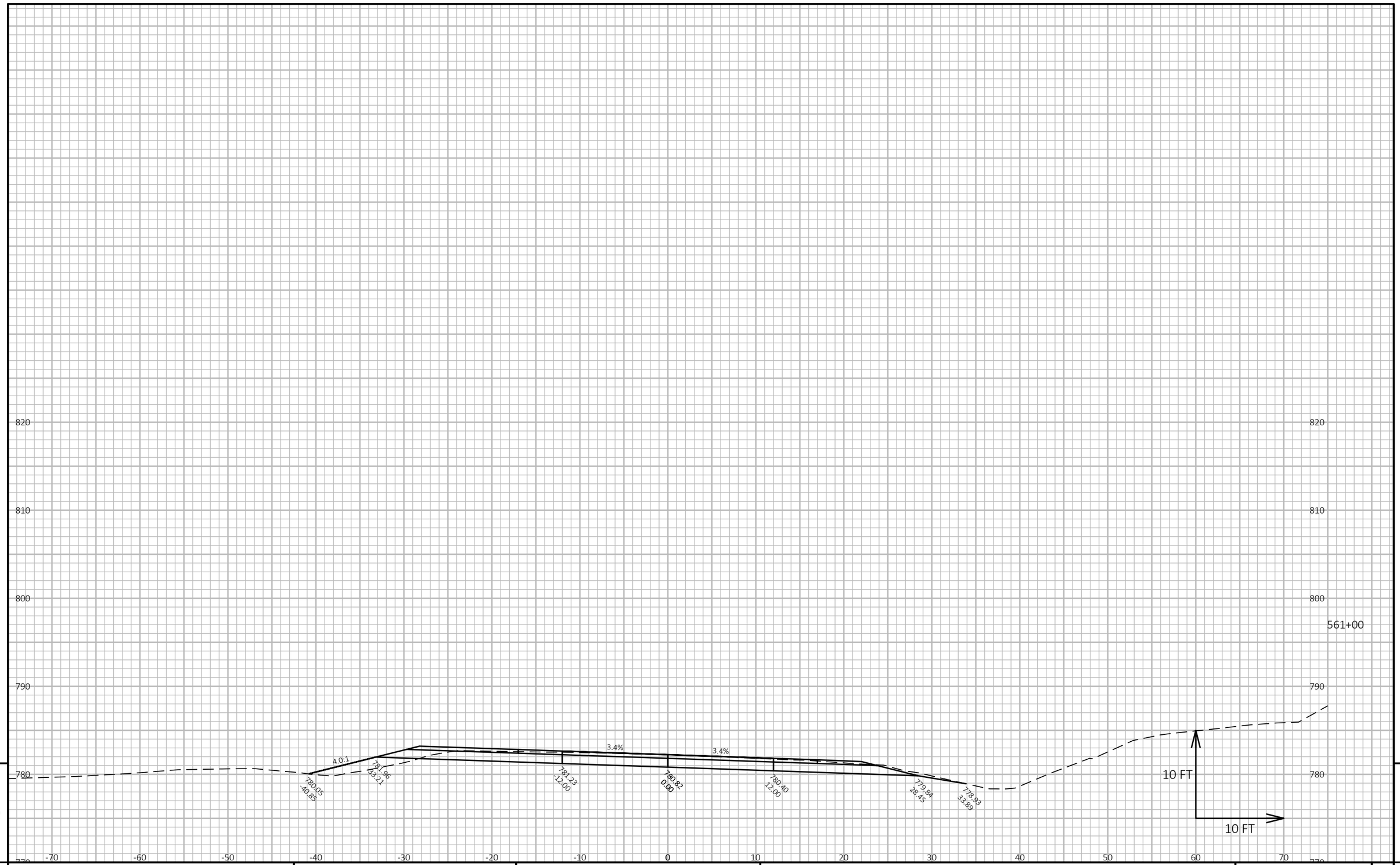
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 556+75 - 561+00	SHEET 280	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+0015

PLOT DATE : 9/16/2020 12:12 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

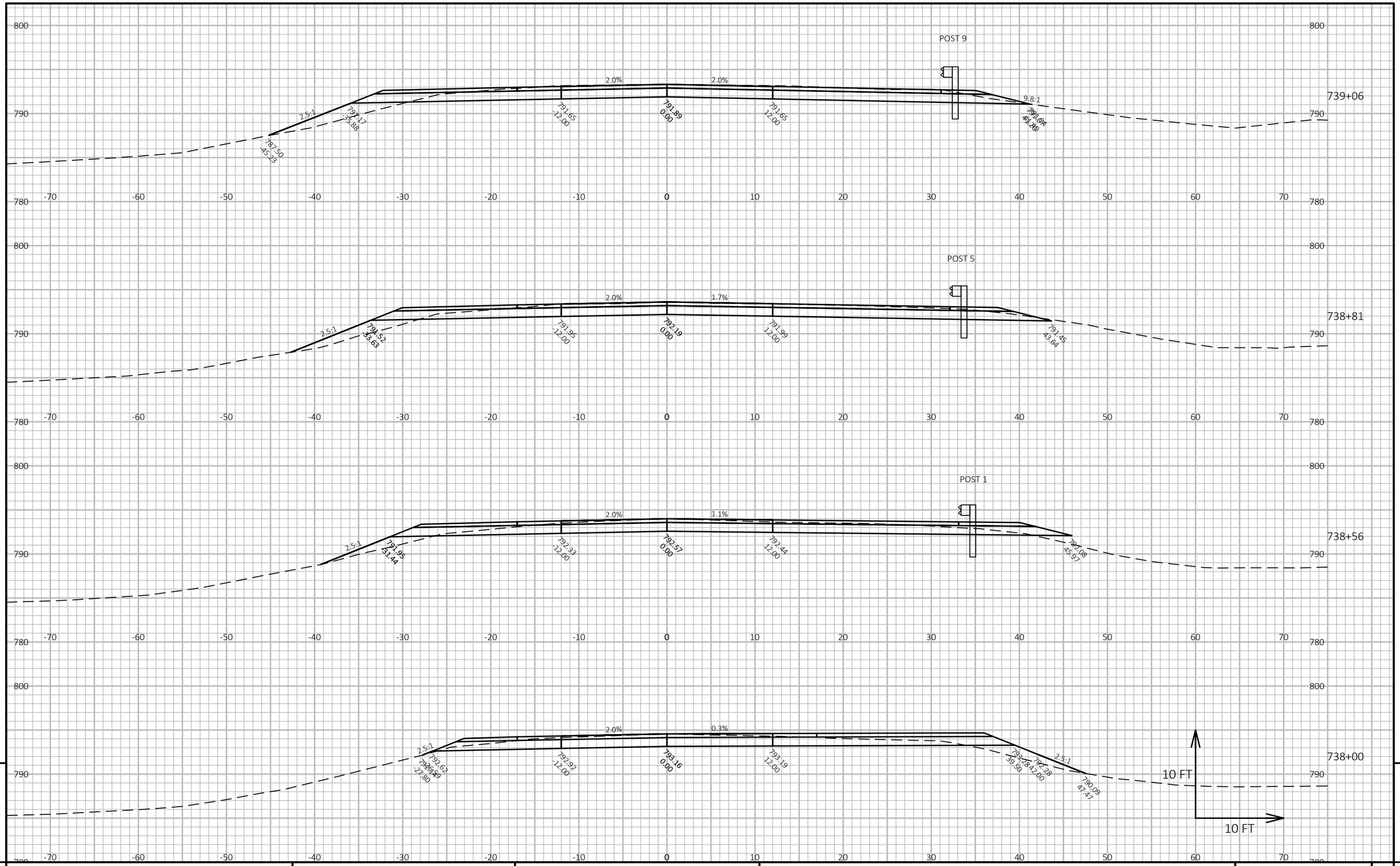
PROJECT NO: XXXX-XX-XX	HWY: XXX	COUNTY: XXX	CROSS SECTIONS: XXX	SHEET 281	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_STA._565+75 - STA._561+00_XS.DWG
LAYOUT NAME - BG_556+75 - 561+0016

PLOT DATE : 9/16/2020 12:13 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

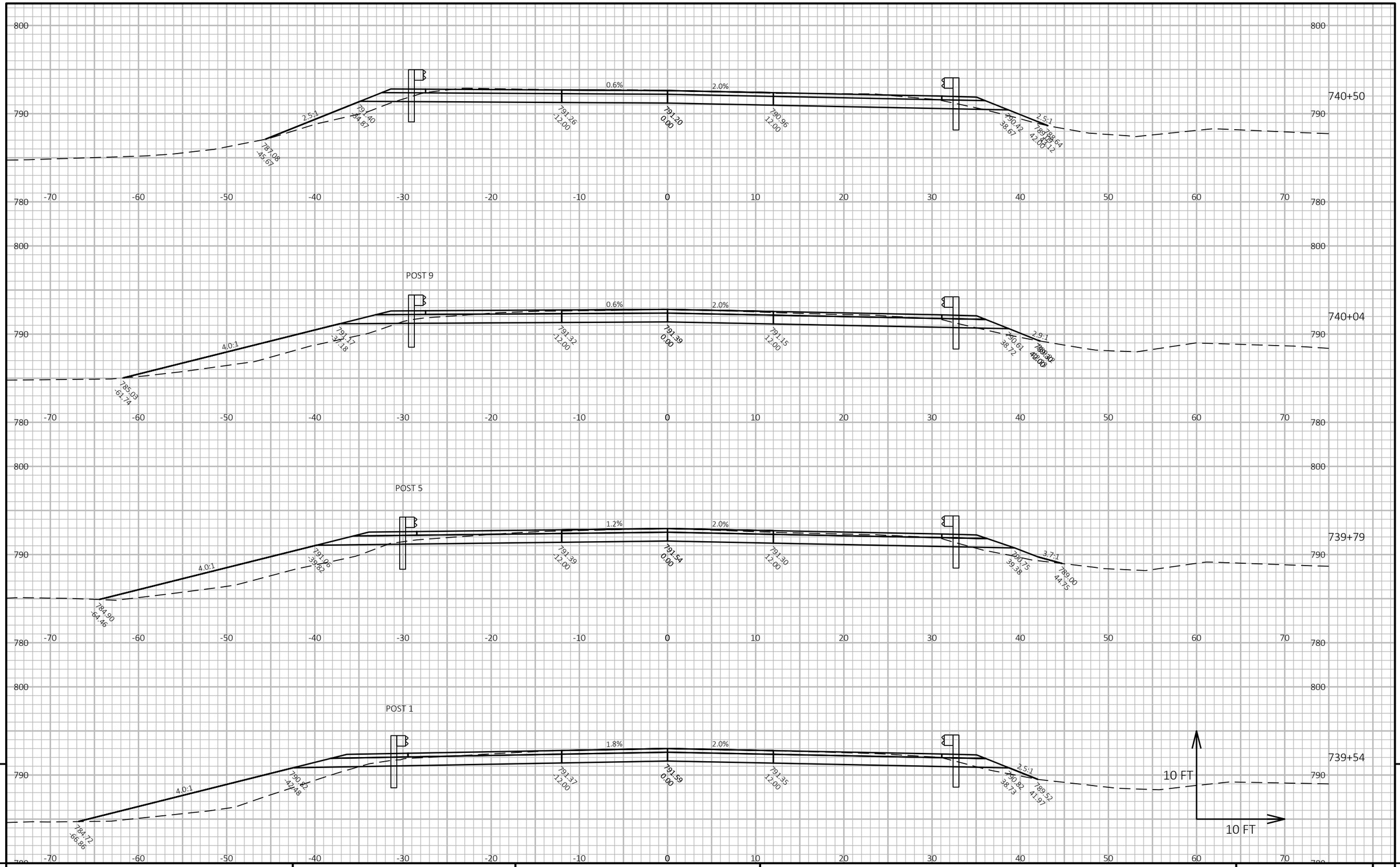
9

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: B-61-113 GUARDRAIL STA. 738+00 - 742+91	SHEET 282	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-113_XS.DWG
LAYOUT NAME - B-61-113 Rail XS - 1

PLOT DATE : 9/16/2020 12:57 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



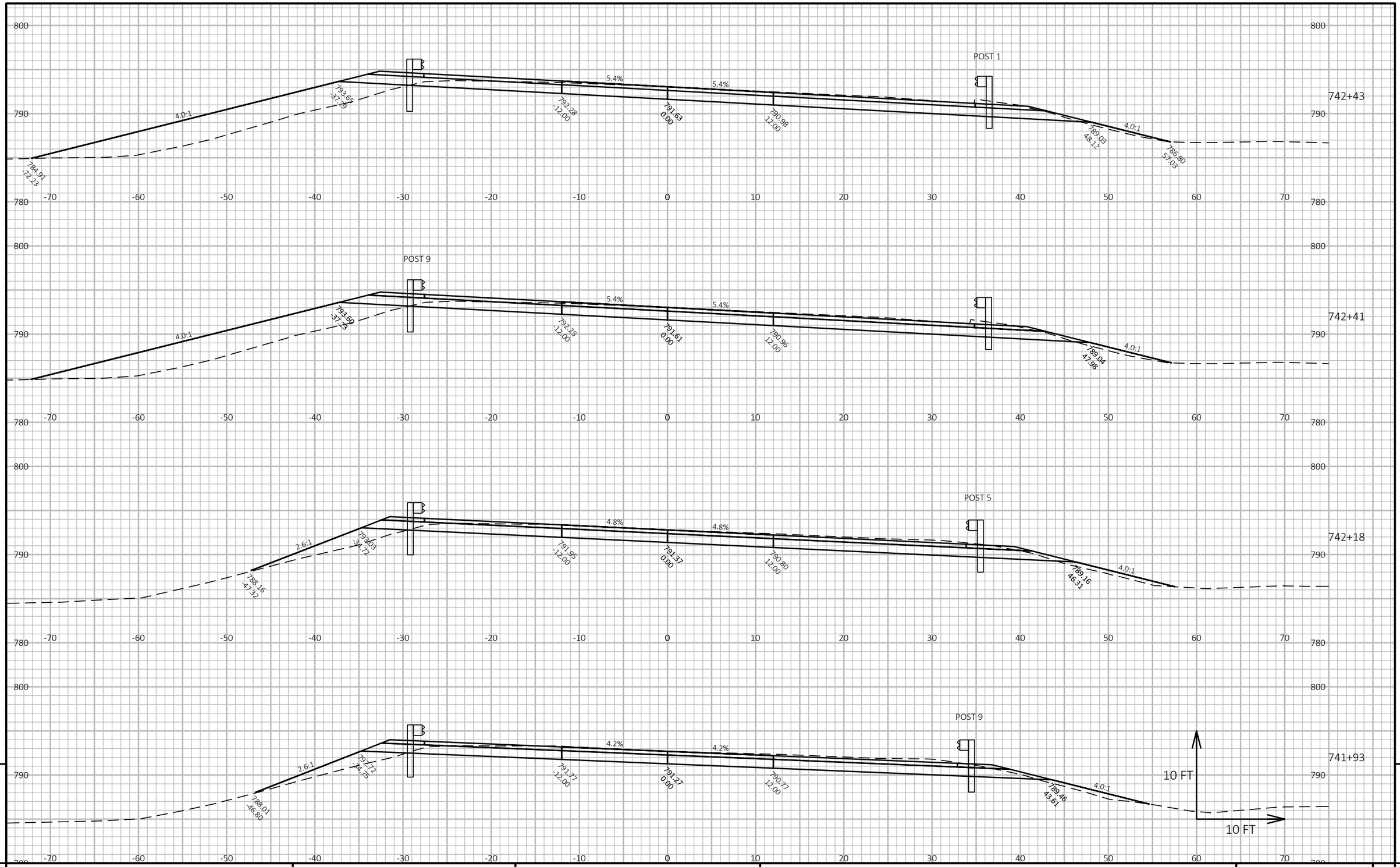
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: B-61-113 GUARDRAIL STA. 738+00 - 742+91	SHEET 283 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-113_XS.DWG
LAYOUT NAME - B-61-113 Rail XS - 2

PLOT DATE : 9/16/2020 12:57 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

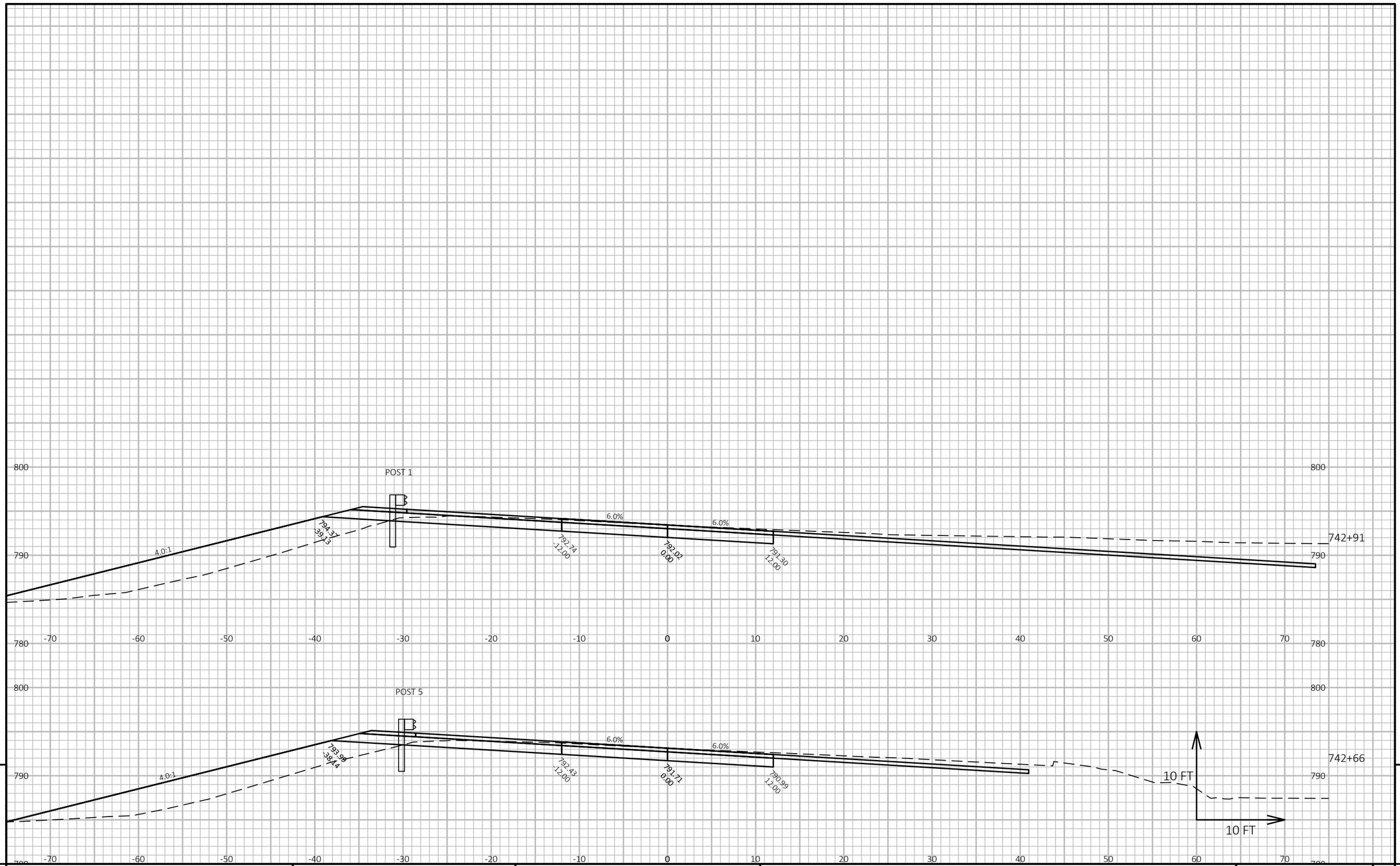
9

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: B-61-113 GUARDRAIL STA. 738+00 - 742+91	SHEET 284 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-113_XS.DWG
LAYOUT NAME - B-61-113 Rail XS - 3

PLOT DATE : 9/16/2020 12:57 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



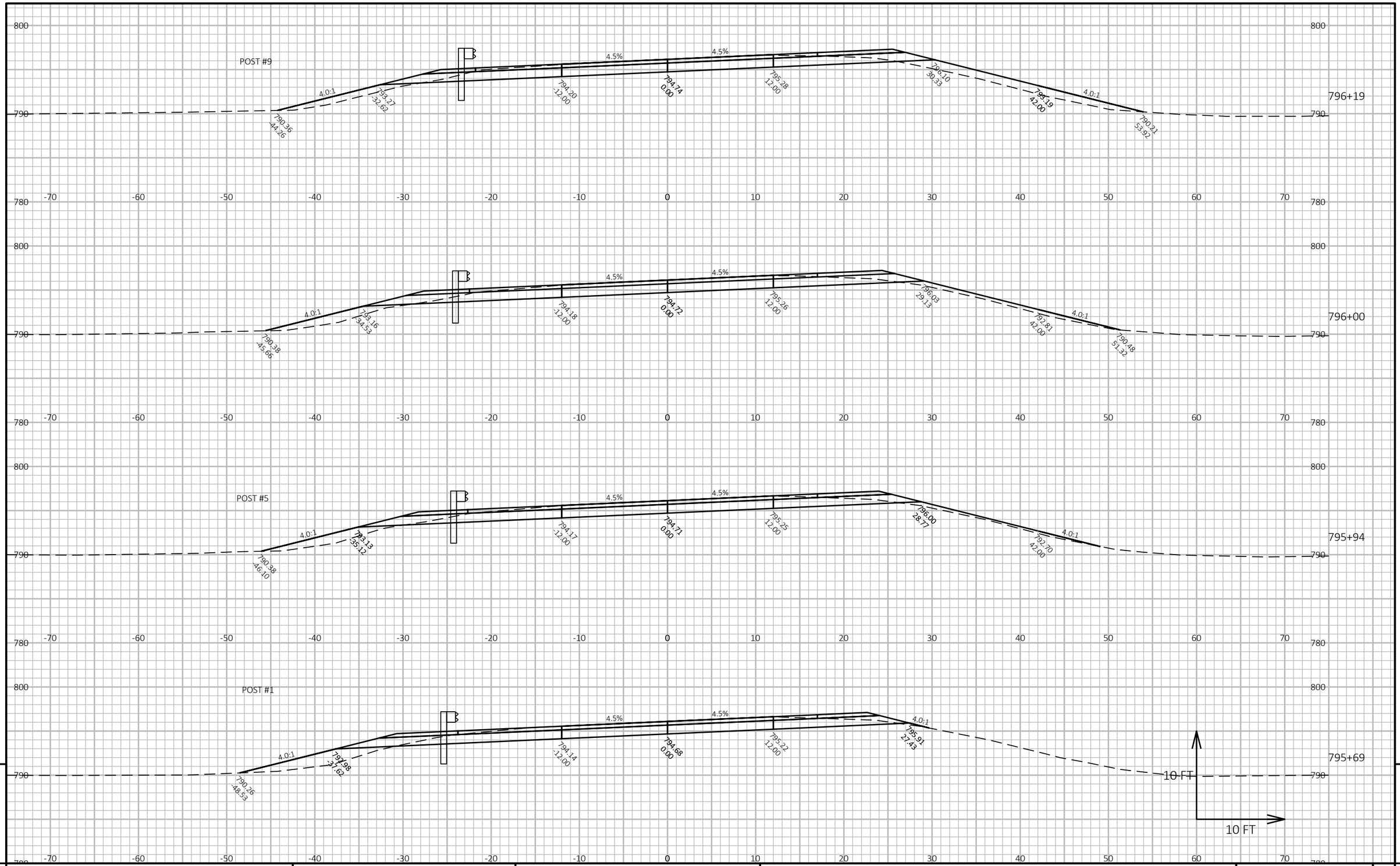
9

9

PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: B-61-113 GUARDRAIL STA. 738+00 - 742+91	SHEET 285	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-113_XS.DWG
LAYOUT NAME - B-61-113 Rail XS - 4

PLOT DATE : 9/16/2020 12:57 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

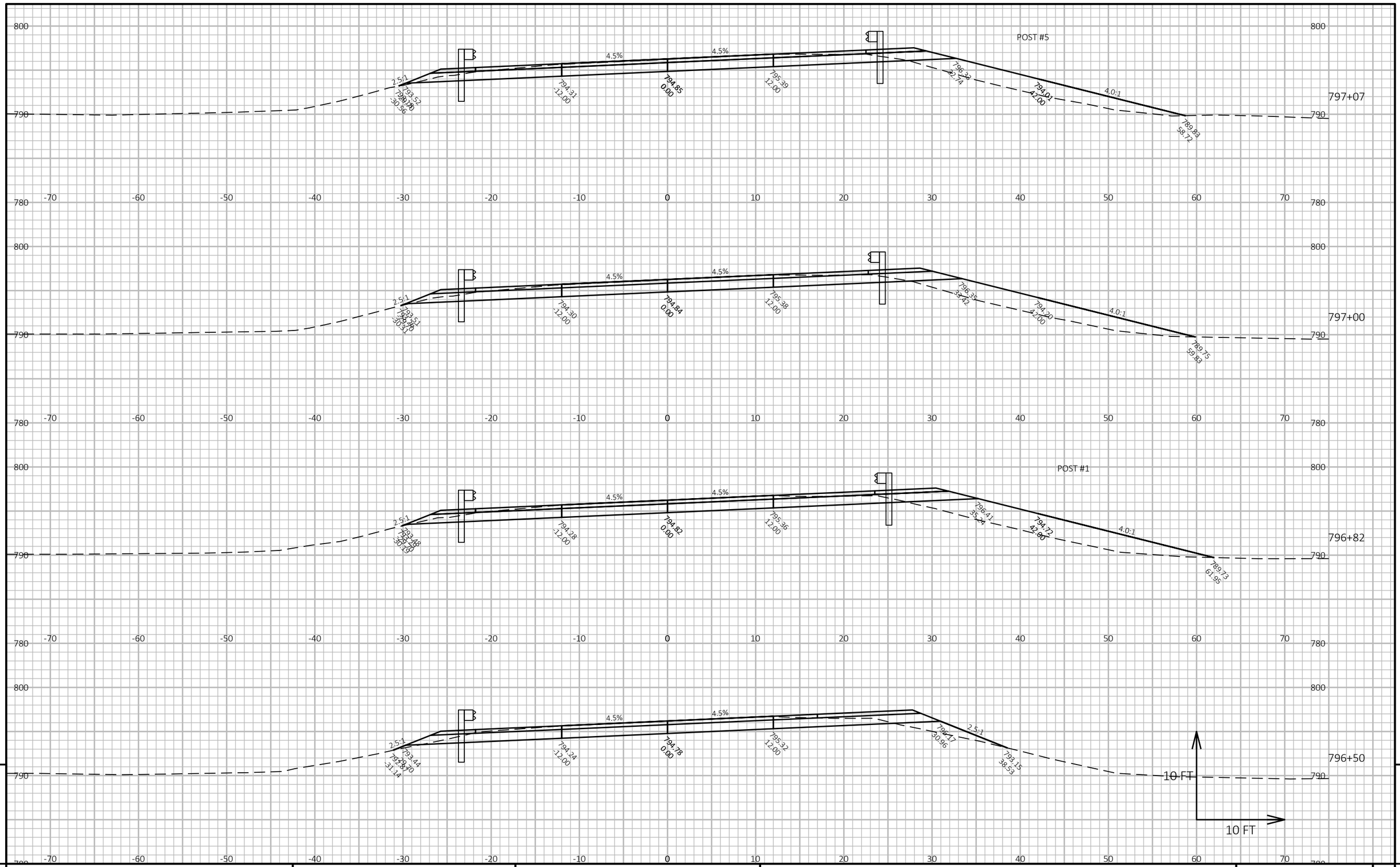
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 795+50 - 801+50	SHEET 286	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-109_STA._795+50 - STA._801+50_XS.DWG
LAYOUT NAME - BG_795+50-798+211

PLOT DATE : 9/16/2020 12:19 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

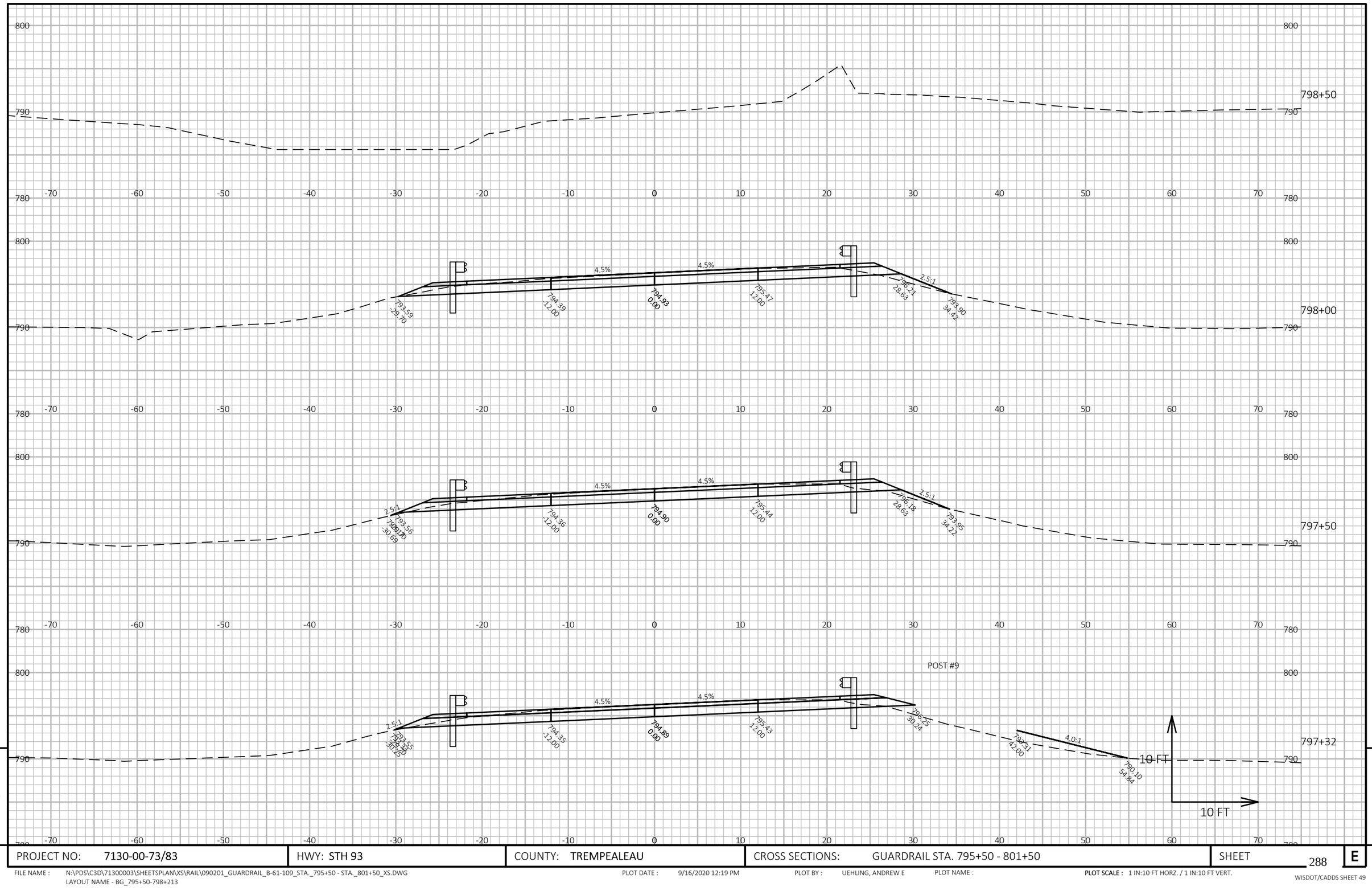
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 795+50 - 801+50	SHEET 287	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-109_STA._795+50 - STA._801+50_XS.DWG
LAYOUT NAME - BG_795+50-798+212

PLOT DATE : 9/16/2020 12:19 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49

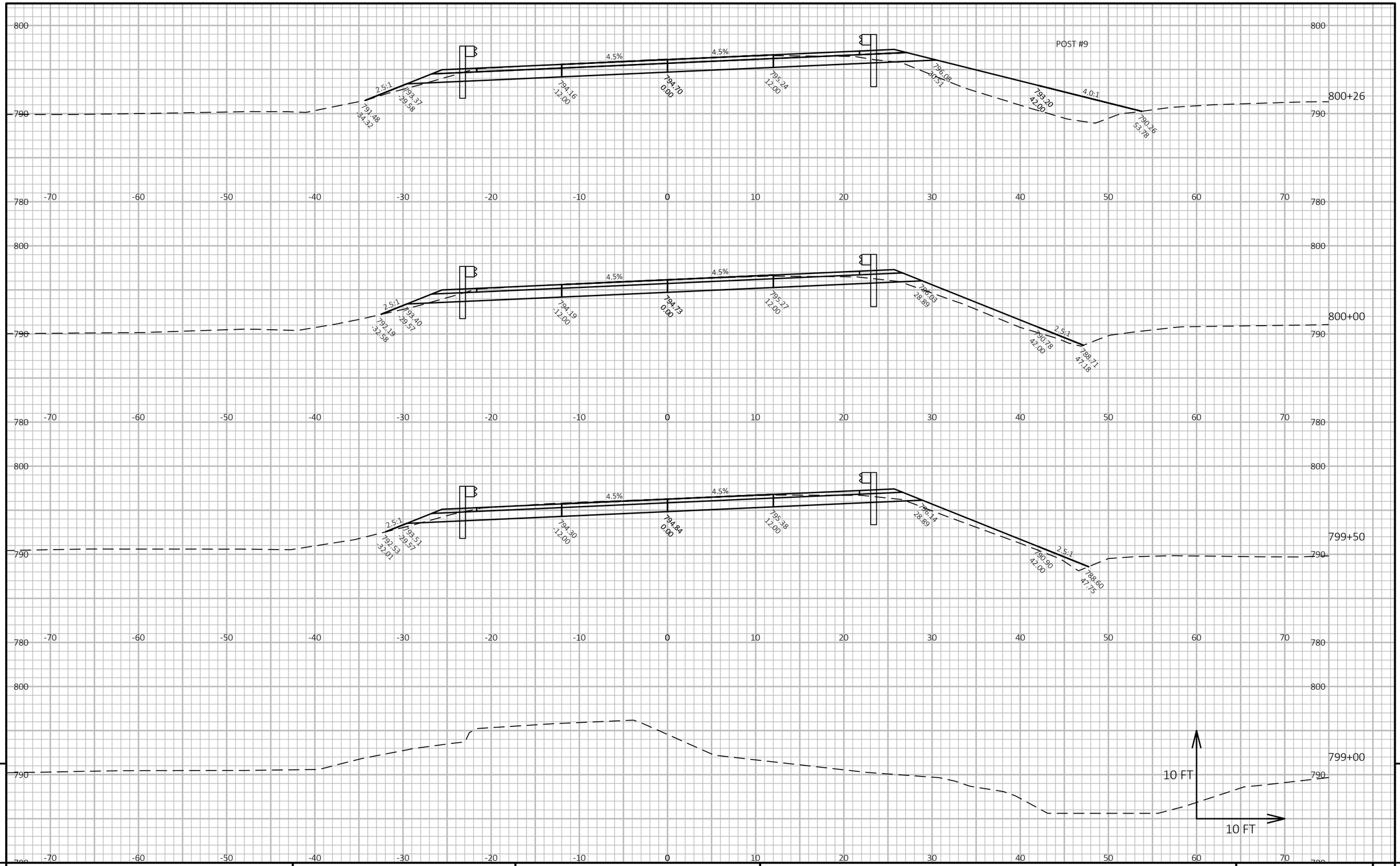


PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 795+50 - 801+50	SHEET 288	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-109_STA._795+50 - STA._801+50_XS.DWG
LAYOUT NAME - BG_795+50-798+213

PLOT DATE : 9/16/2020 12:19 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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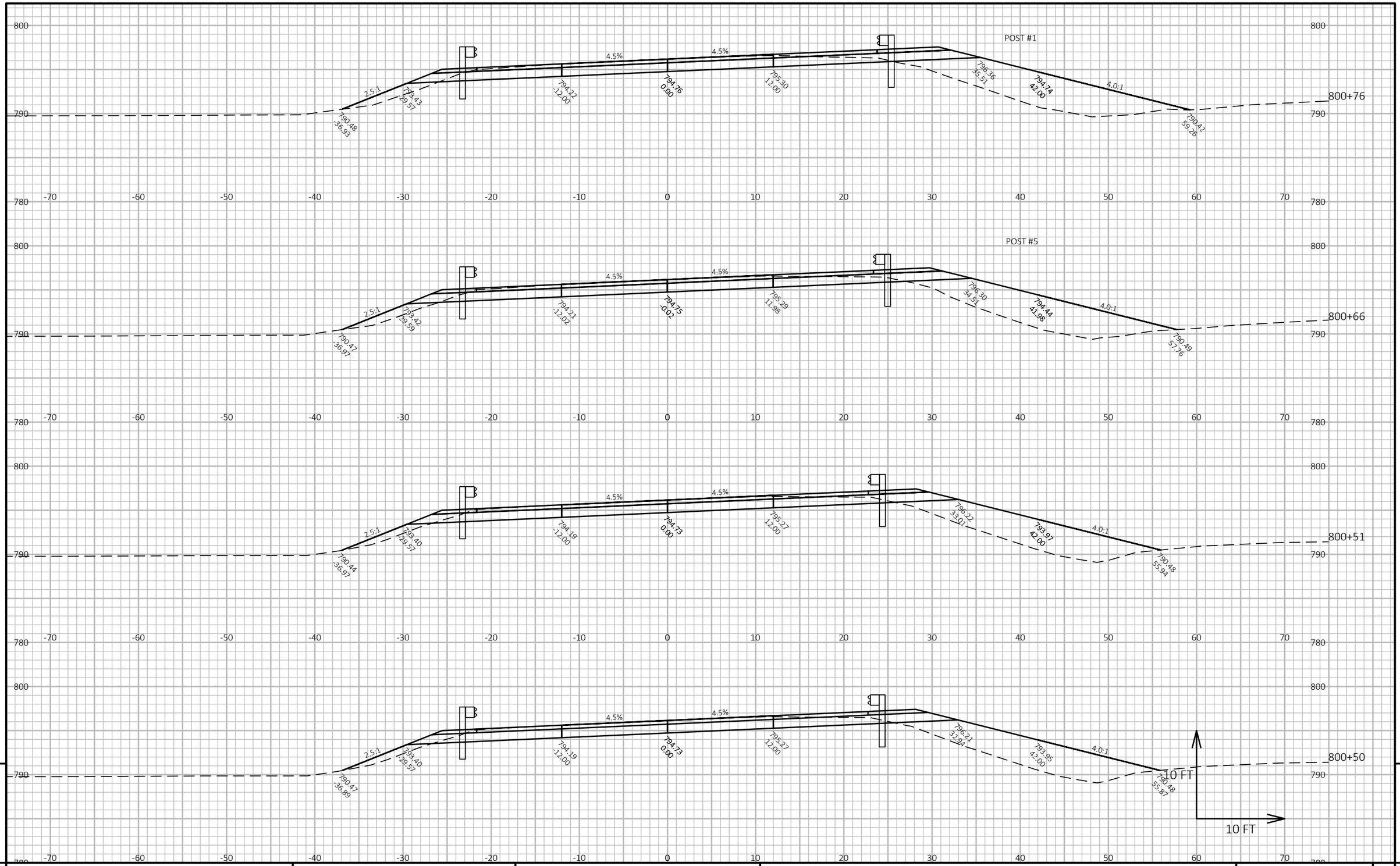
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 795+50 - 801+50	SHEET 289	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-109_STA._795+50 - STA._801+50_XS.DWG
LAYOUT NAME - BG_795+50-798+214

PLOT DATE : 9/16/2020 12:19 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



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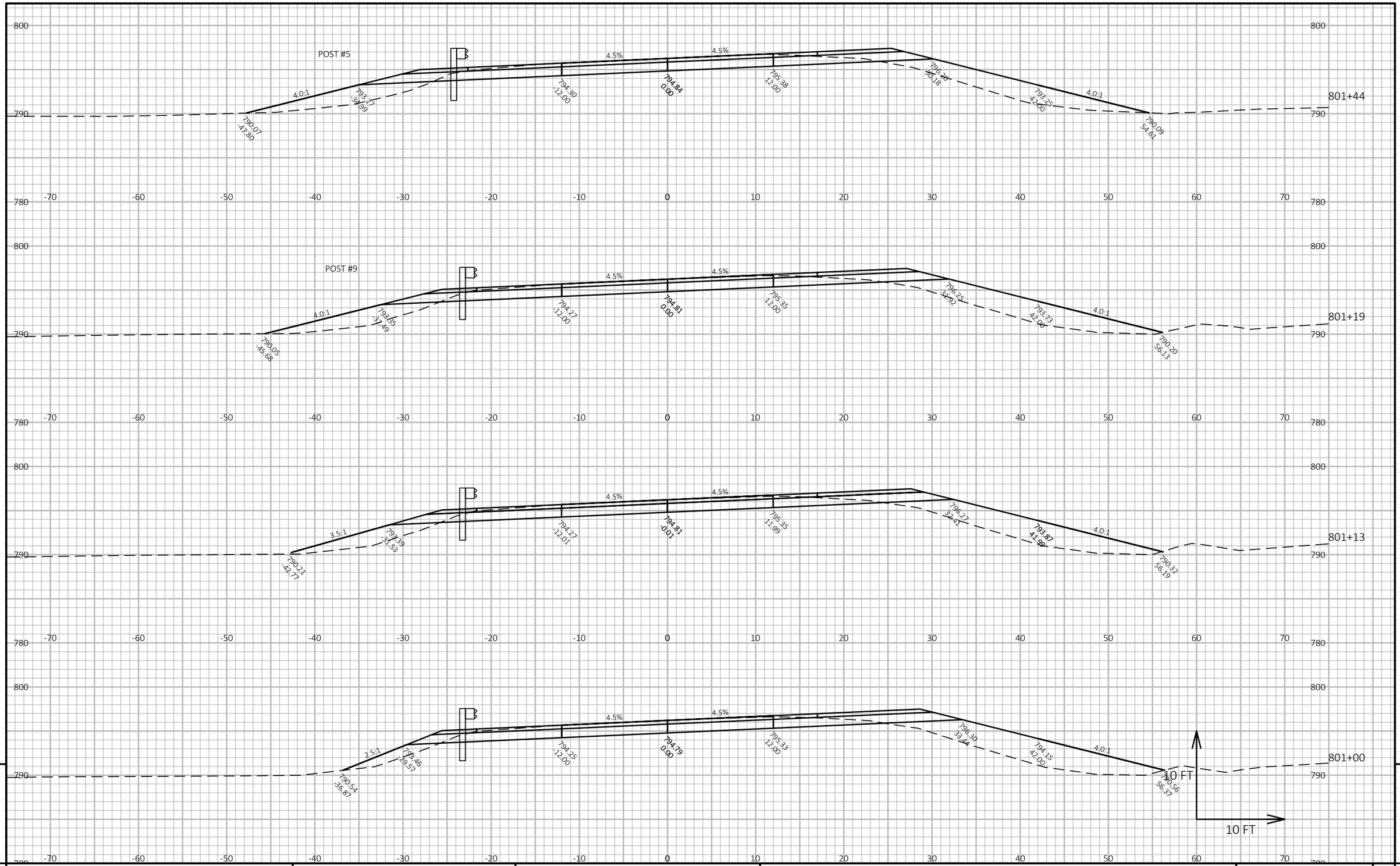
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 795+50 - 801+50	SHEET 290	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-109_STA._795+50 - STA._801+50_XS.DWG
LAYOUT NAME - BG_795+50-798+215

PLOT DATE : 9/16/2020 12:19 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



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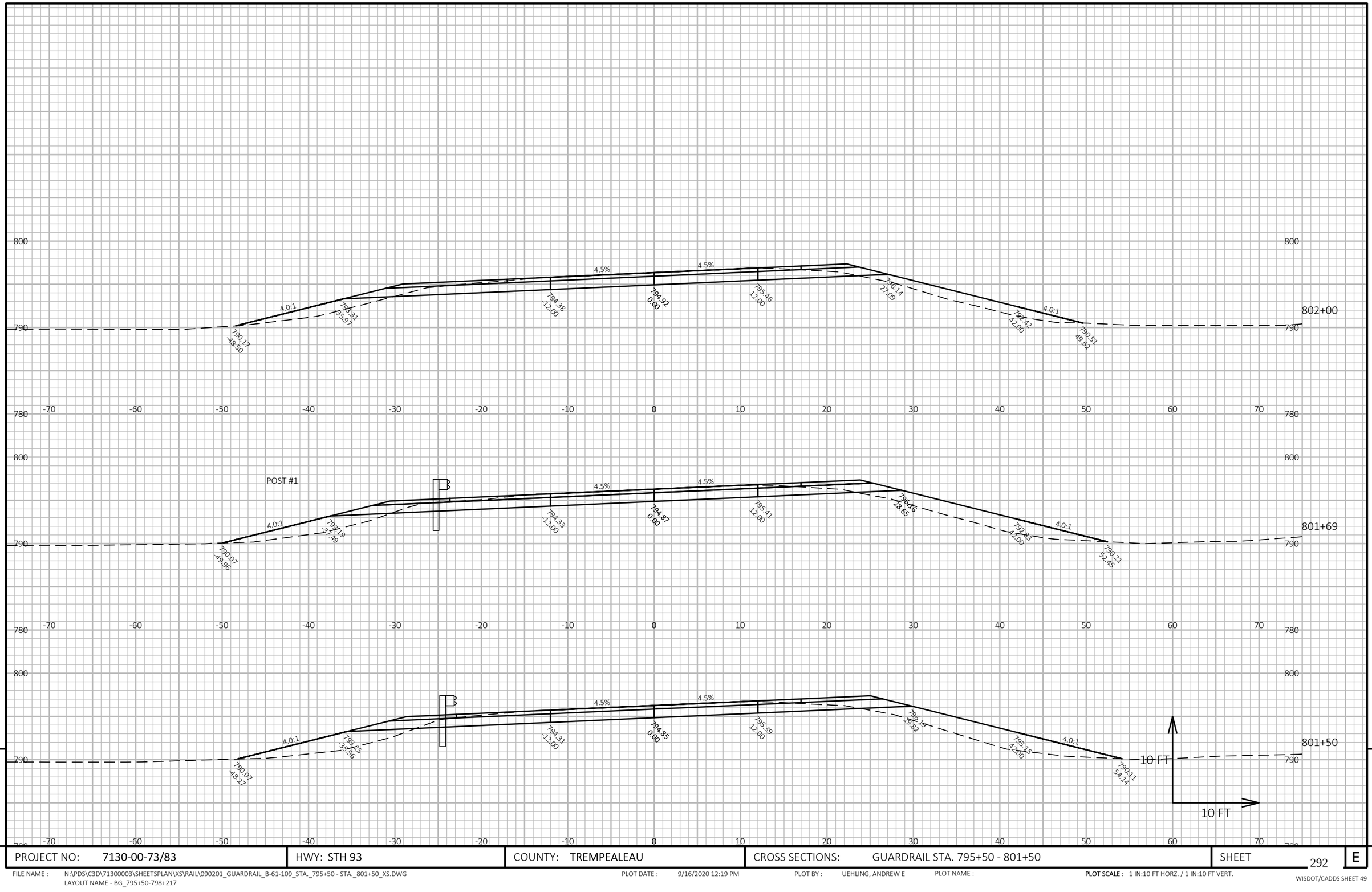
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 795+50 - 801+50	SHEET 291	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-109_STA._795+50 - STA._801+50_XS.DWG
LAYOUT NAME - BG_795+50-798+216

PLOT DATE : 9/16/2020 12:19 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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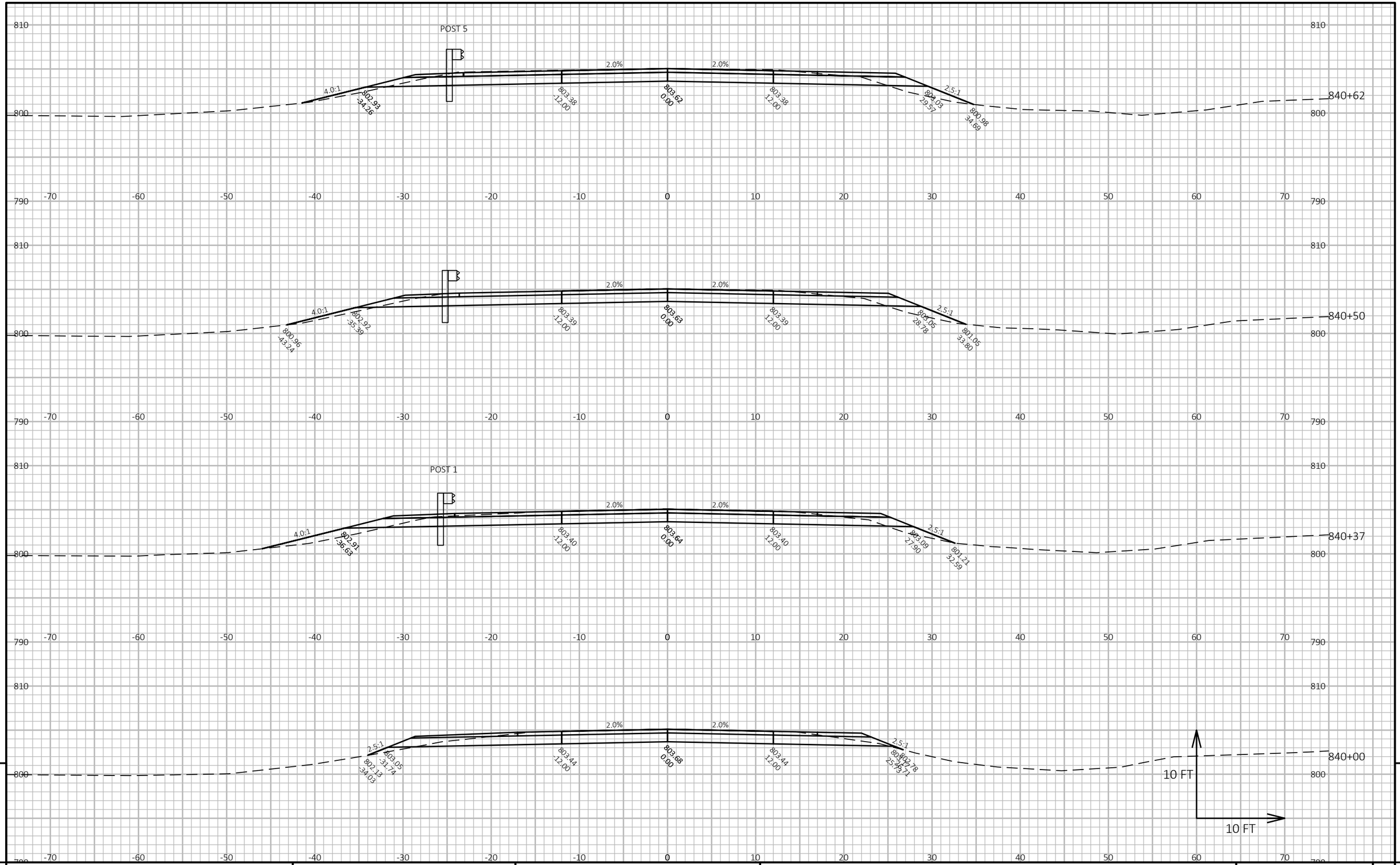
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: GUARDRAIL STA. 795+50 - 801+50	SHEET 292	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-109_STA._795+50 - STA._801+50_XS.DWG
LAYOUT NAME - BG_795+50-798+217

PLOT DATE : 9/16/2020 12:19 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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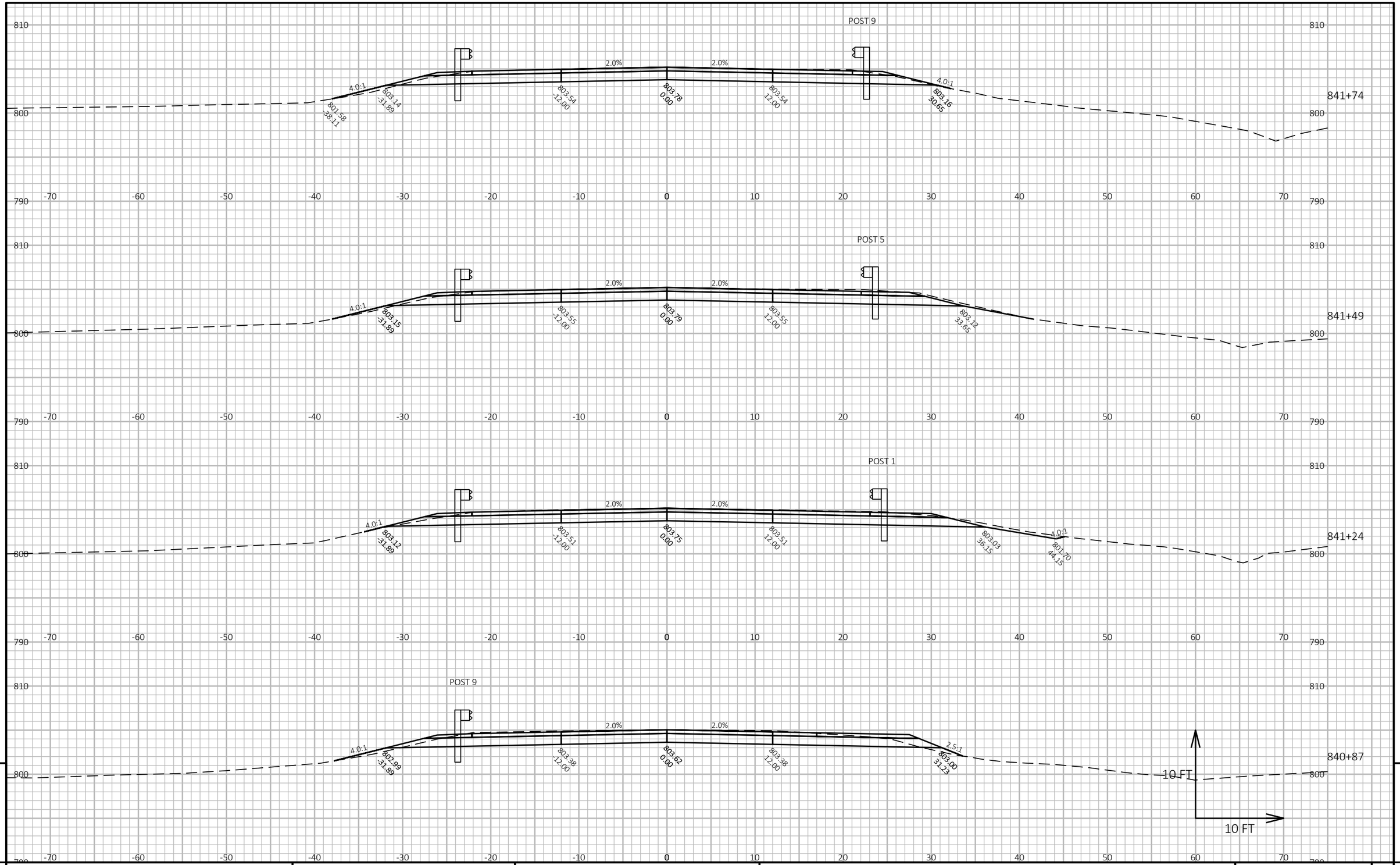
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: B-61-110 GUARDRAIL STA. 840+00 - 846+50	SHEET 293	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-110_STA._840+00 - STA._846+50_XS.DWG
LAYOUT NAME - B-61-110 XS - 1

PLOT DATE : 9/16/2020 1:06 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



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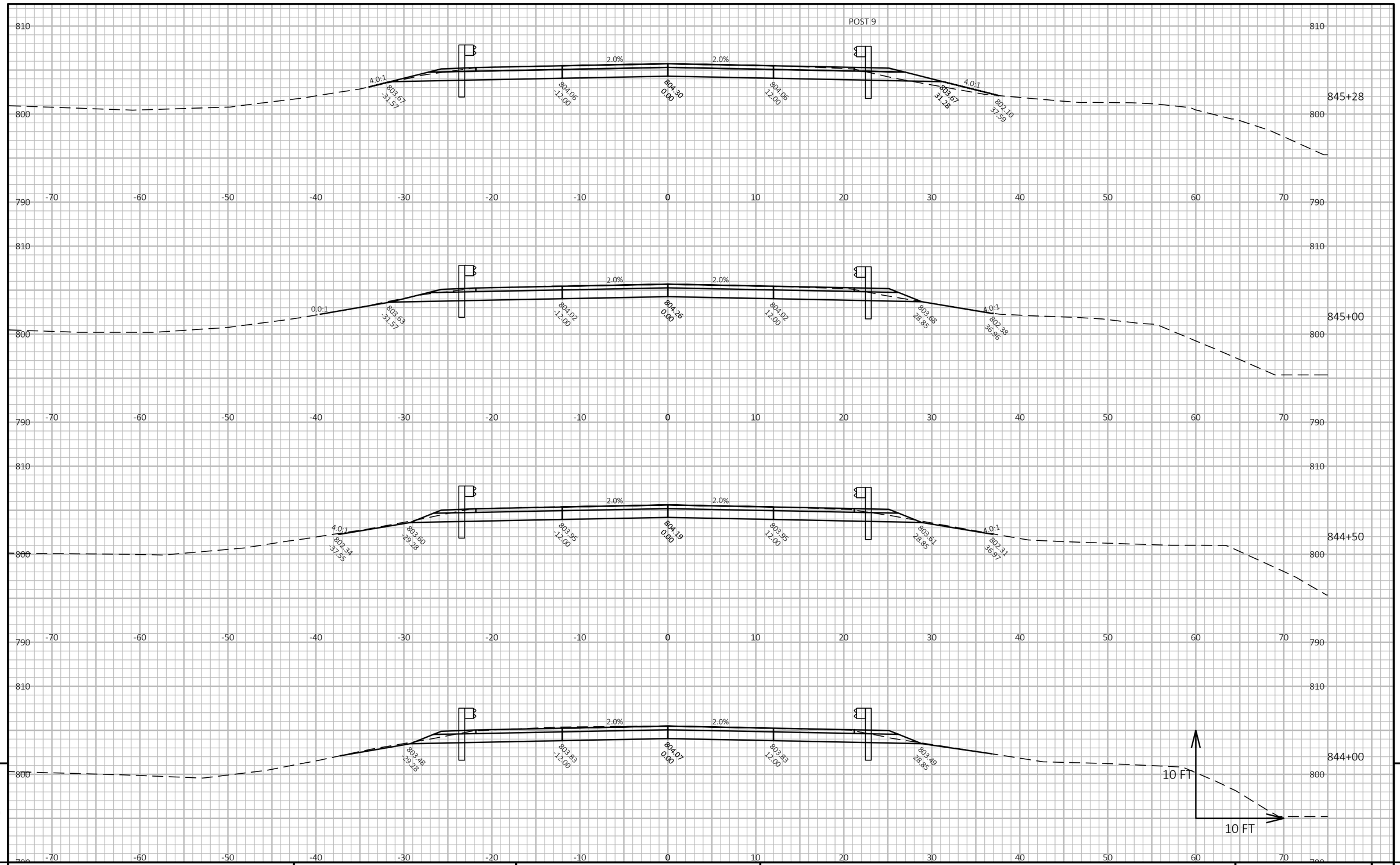
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: B-61-110 GUARDRAIL STA. 840+00 - 846+50	SHEET 294	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-110_STA._840+00 - STA._846+50_XS.DWG
LAYOUT NAME - B-61-110 XS - 2

PLOT DATE : 9/16/2020 1:06 PM PLOT BY : UEHLING, ANDREW E PLOT NAME :

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

WISDOT/CADDS SHEET 49



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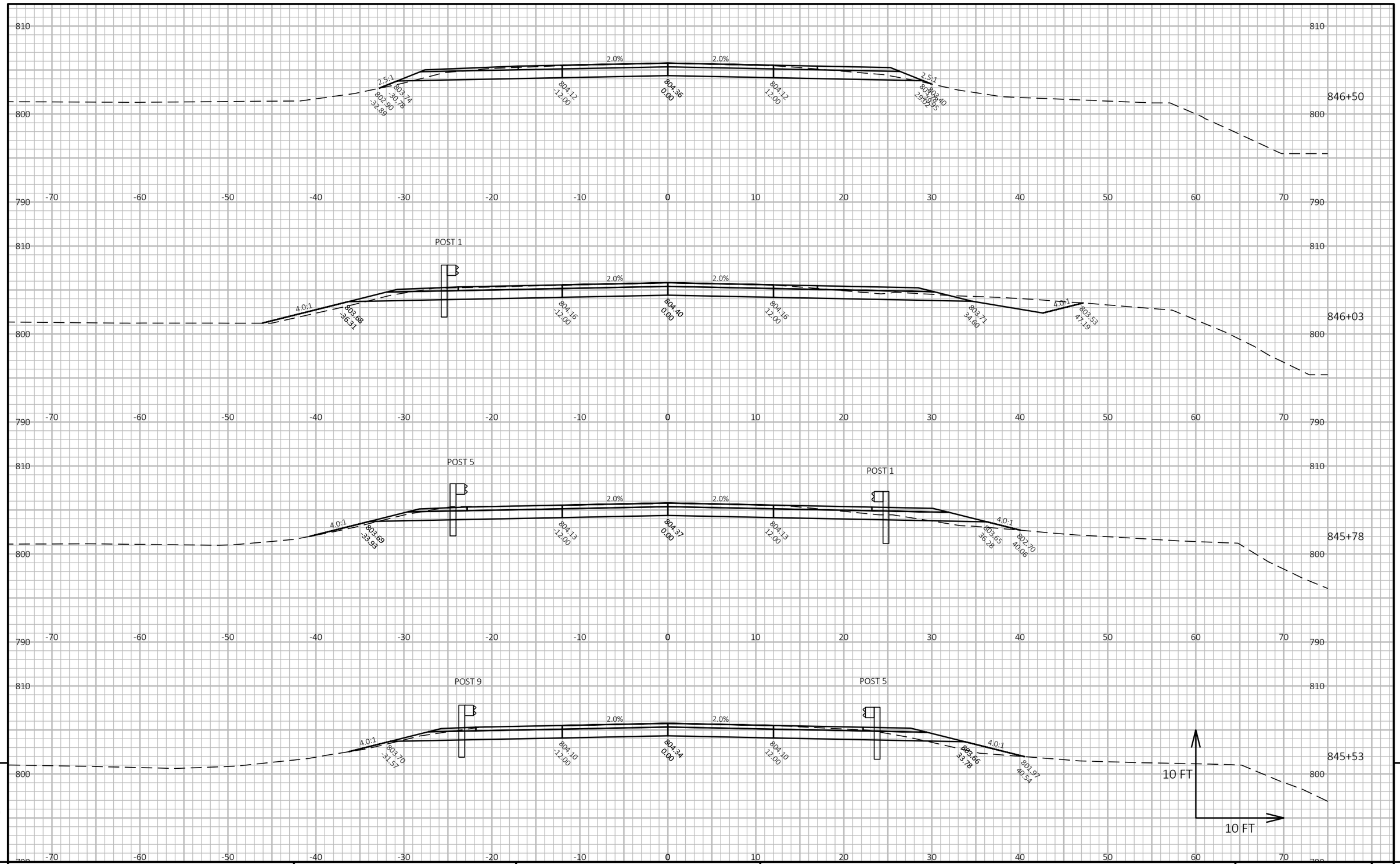
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: B-61-110 GUARDRAIL STA. 840+00 - 846+50	SHEET 295	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-110_STA._840+00 - STA._846+50_XS.DWG
LAYOUT NAME - B-61-110 XS - 3

PLOT DATE : 9/16/2020 1:06 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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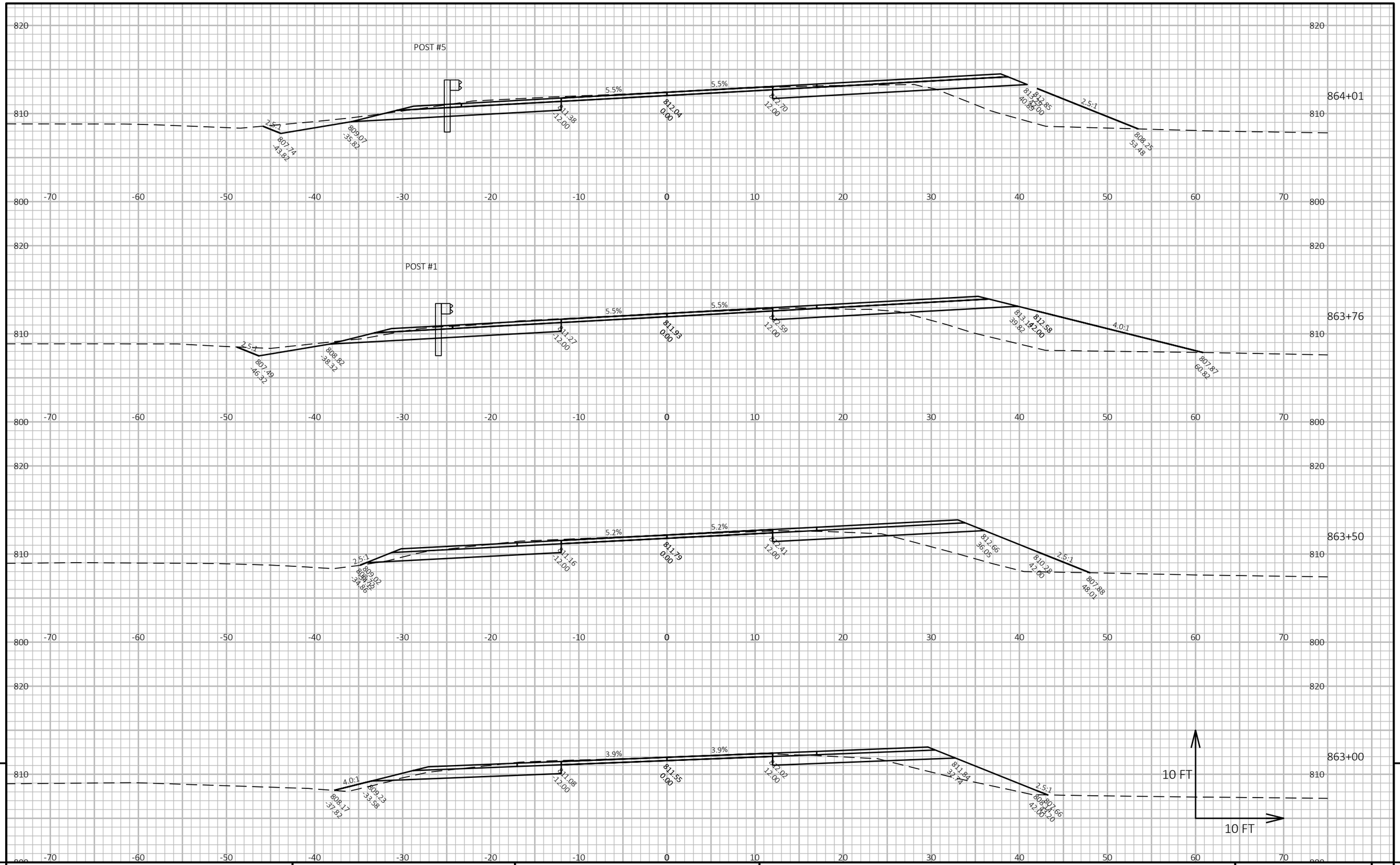
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: B-61-110 GUARDRAIL STA. 840+00 - 846+50	SHEET 296	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-110_STA._840+00 - STA._846+50_XS.DWG
LAYOUT NAME - B-61-110 XS - 4

PLOT DATE : 9/16/2020 1:06 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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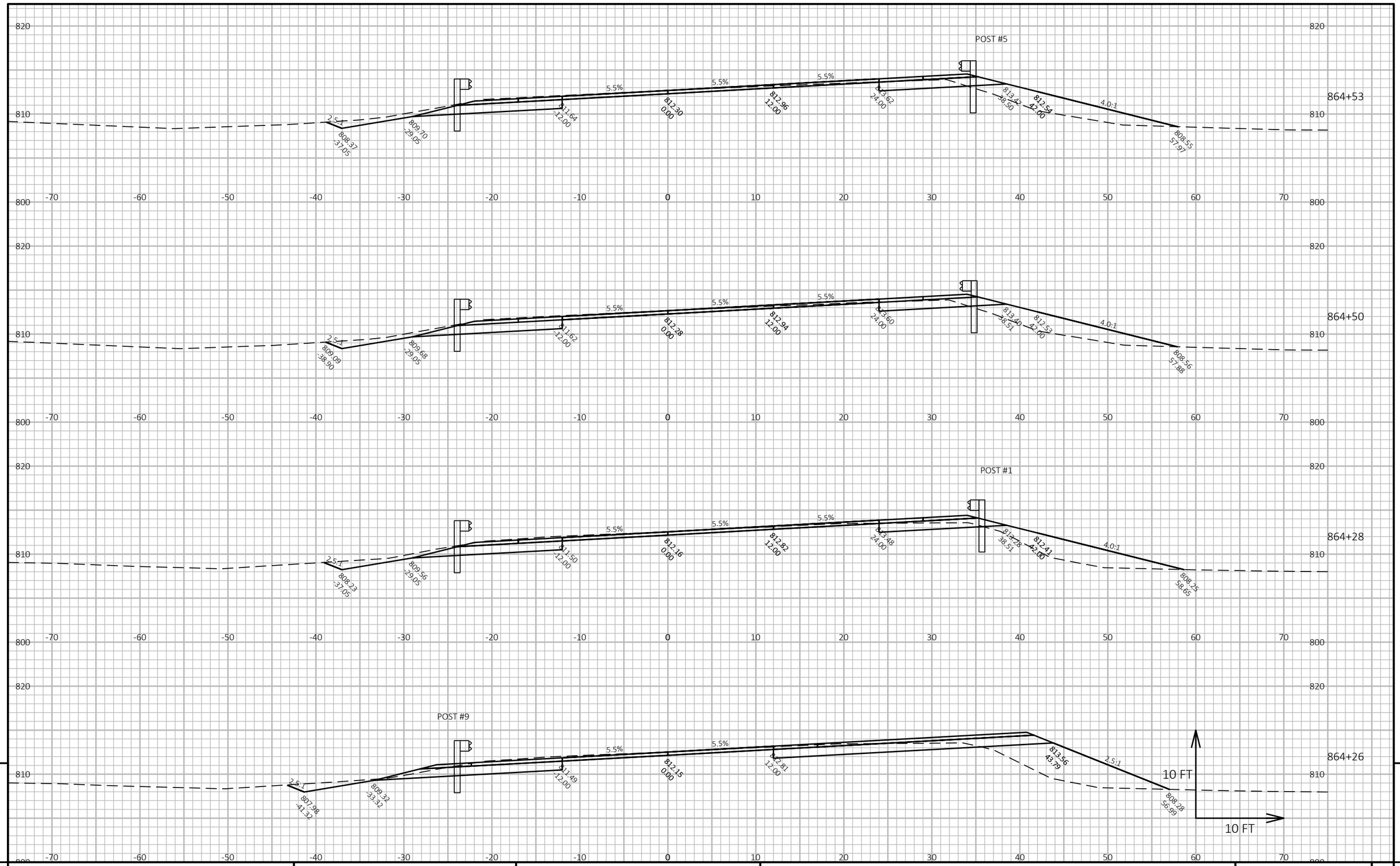
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: B-61-111 GUARDRAIL STA. 863+00 - 871+00	SHEET 297	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-111_STA._863+00 - STA._871+00_XS.DWG
LAYOUT NAME - B-61-111 GUARDRAIL STA. 863+00 - 871+00 - 1

PLOT DATE : 9/16/2020 3:49 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

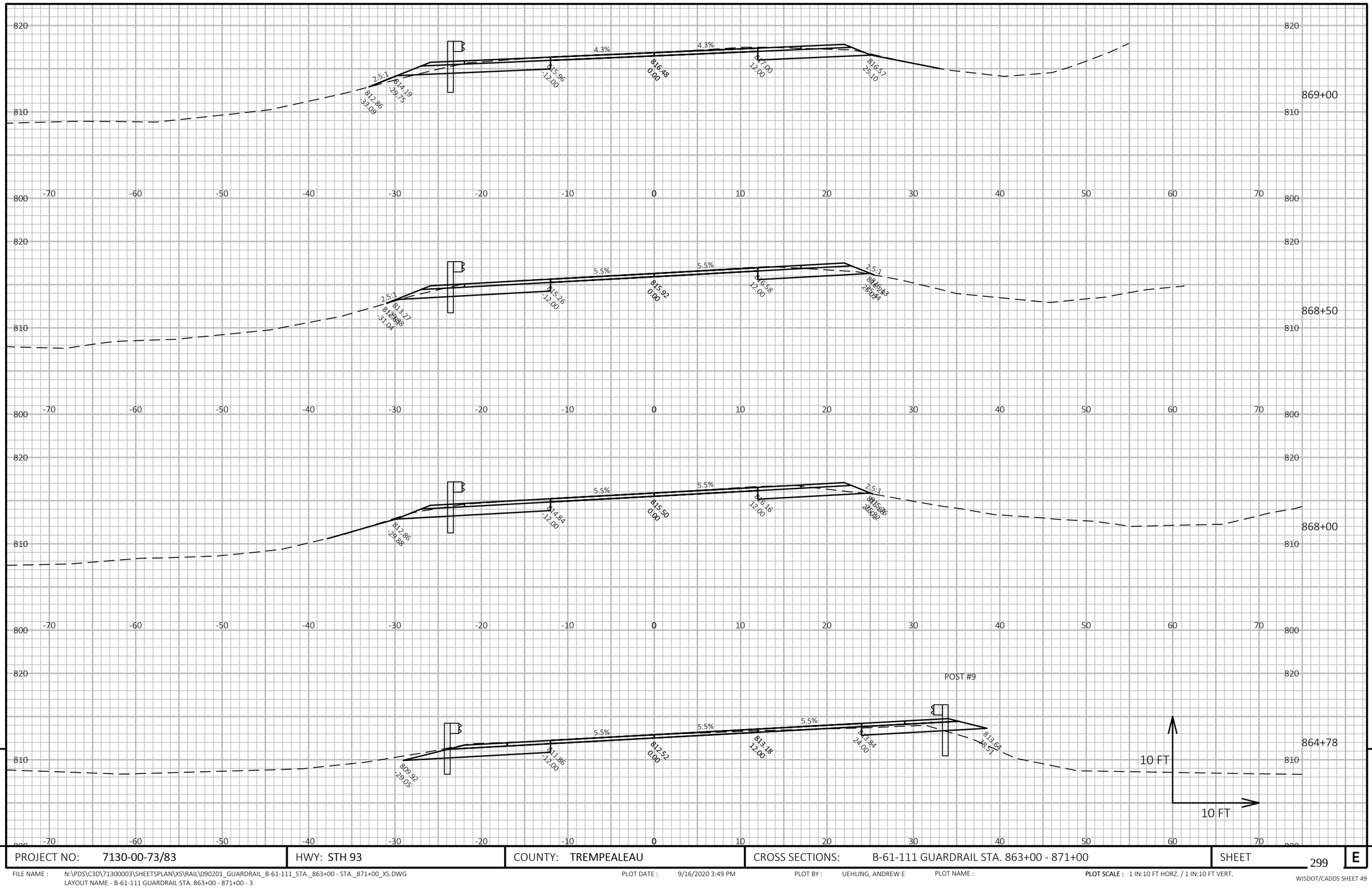


PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: B-61-111 GUARDRAIL STA. 863+00 - 871+00	SHEET 298 E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-111_STA._863+00 - STA._871+00_XS.DWG
LAYOUT NAME - B-61-111 GUARDRAIL STA. 863+00 - 871+00 - 2

PLOT DATE : 9/16/2020 3:49 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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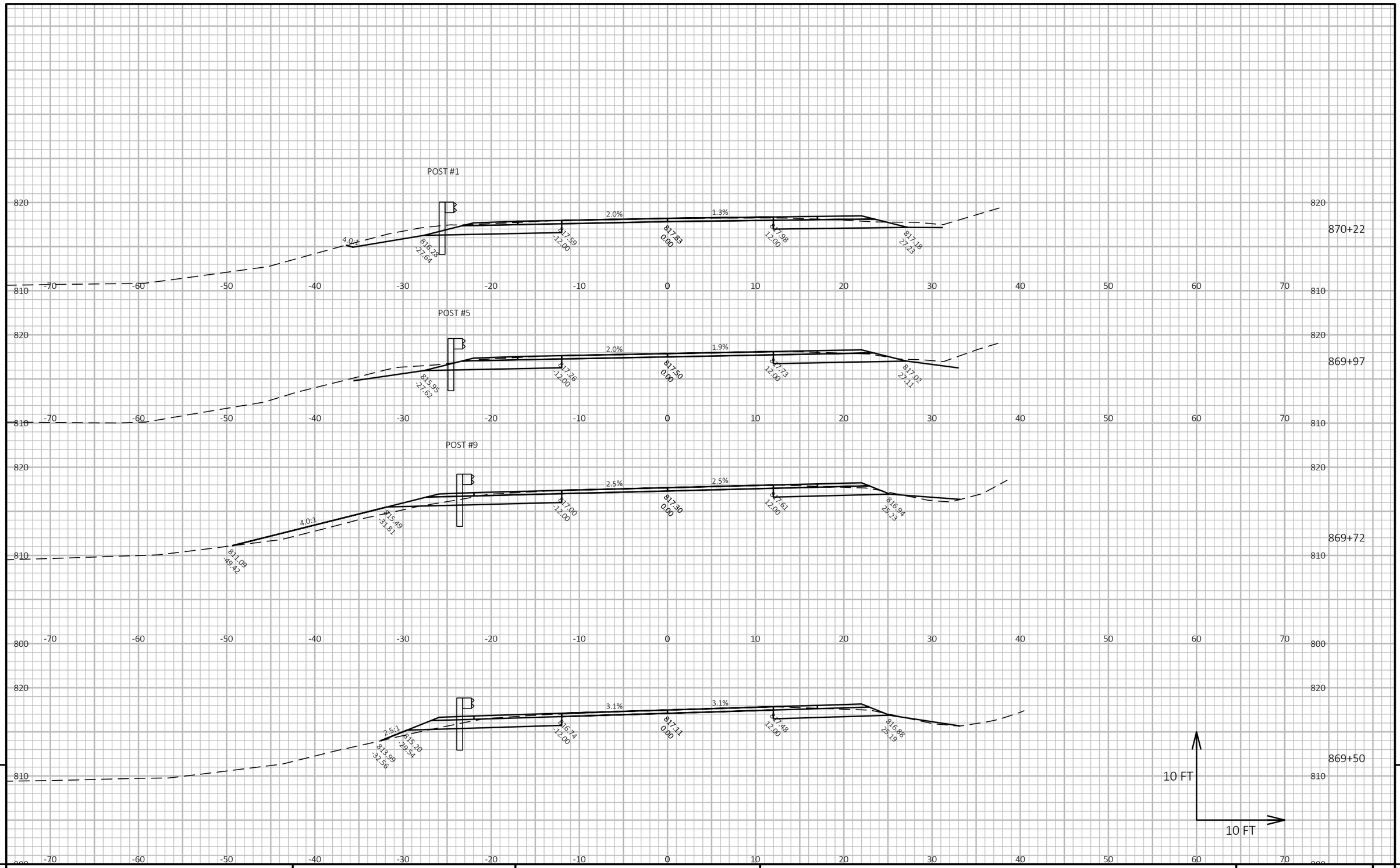
PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: B-61-111 GUARDRAIL STA. 863+00 - 871+00	SHEET 299	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-111_STA._863+00 - STA._871+00_XS.DWG
LAYOUT NAME - B-61-111 GUARDRAIL STA. 863+00 - 871+00 - 3

PLOT DATE : 9/16/2020 3:49 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 7130-00-73/83	HWY: STH 93	COUNTY: TREMPEALEAU	CROSS SECTIONS: B-61-111 GUARDRAIL STA. 863+00 - 871+00	SHEET 300	E

FILE NAME : N:\PDS\C3D\71300003\SHEETSPLAN\XS\RAIL\090201_GUARDRAIL_B-61-111_STA._863+00 - STA._871+00_XS.DWG
LAYOUT NAME - B-61-111 GUARDRAIL STA. 863+00 - 871+00 - 4

PLOT DATE : 9/16/2020 3:49 PM PLOT BY : UEHLING, ANDREW E PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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