EAU

PROJECT ID: 7600-00-72 8620-00-75

WITH: N/A

COUNTY: DUNN

DECEMBER 2025

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 = 456

38

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7600-00-72	WISC 2026112	1
8620-00-75	WISC 2026116	1

MENOMONIE - EAU CLAIRE

STH 29 TO PRINCETON DRIVE

USH 12

DUNN

STATE PROJECT NUMBER **7600-00-72**

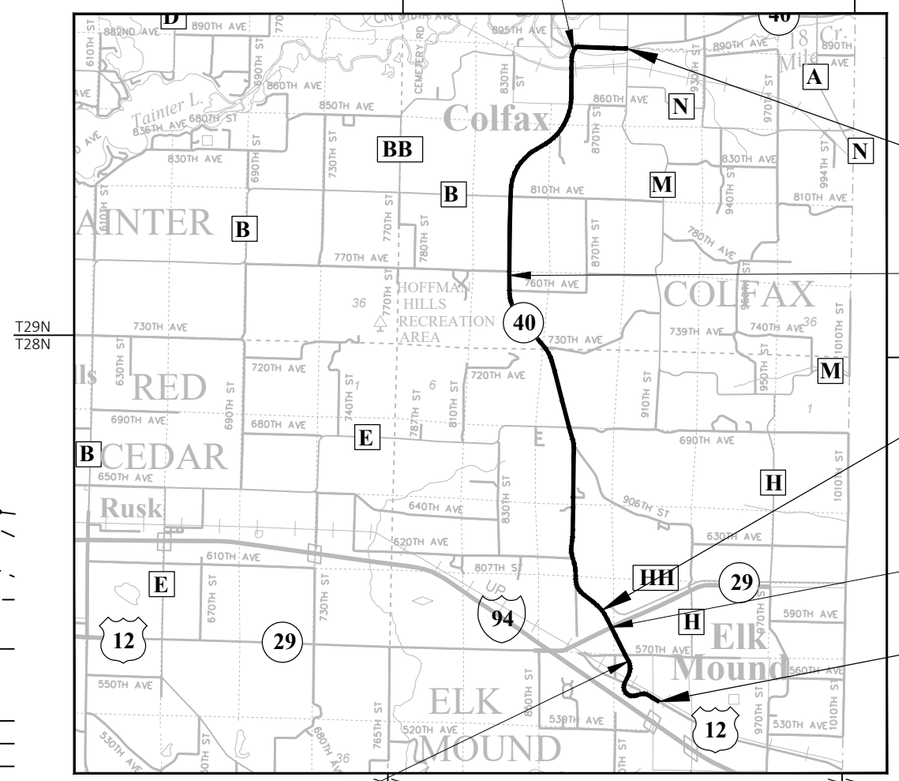
ELK MOUND - BLOOMER

USH 12 TO CTH M

STH 40

DUNN

STATE PROJECT NUMBER **8620-00-75**



NET EXCEPTION TO CL LENGTH
STA 942+45 - STA 943+20

END PROJECT 8620-00-75
STA 994+00

NET EXCEPTION TO CL LENGTH
STA 766+45 - STA 766+83

BEGIN PROJECT 8620-00-75
END PROJECT 7600-00-72
STA 515+04
X = 216338.072
Y = 176917.085

NET EXCEPTION TO CL LENGTH
STA 501+74 - STA 504+41

BEGIN PROJECT 7600-00-72
STA 432+72
X = 219944.417
Y = 171029.058

NET EXCEPTION TO CL LENGTH
STA 463+17 - STA 464+10

LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 10.307 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), DUNN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18.

DESIGN DESIGNATION			7600-00-02
A.A.D.T.	2026	=	4110
A.A.D.T.	2046	=	4630
D.H.V.		=	493
D.D.		=	50/50
T.		=	23.9%
DESIGN SPEED		=	65 MPH
ESALS		=	1,770,000

DESIGN DESIGNATION			8620-00-05
A.A.D.T.	2026	=	4370
A.A.D.T.	2046	=	4370
D.H.V.		=	524
D.D.		=	50/50
T.		=	18.0%
DESIGN SPEED		=	65 MPH
ESALS		=	640,000

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

ORIGINAL PLANS PREPARED BY

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac
120 Wilshire Boulevard North • Stevens Point, WI 54481
(715) 341-4363 • fax (715) 341-1256

WISCONSIN
DEXTER D. KAETTERHENRY
E-43966
PLOVER
WI
PROFESSIONAL ENGINEER

7/29/2025
DATE

DEXTER D. KAETTERHENRY, PE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	GREMMER & ASSOCIATES, INC.
Designer	GREMMER & ASSOCIATES, INC.
Project Manager	BETH CUNNINGHAM, P.E.
Regional Examiner	NORTHWEST REGION
Regional Supervisor	TOU YANG, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 7/29/2025 (Signature)

E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\010101_TI\010101_TI.DWG PLOT DATE : 7/29/2025 1:23 PM PLOT BY : DEXTER KAETTERHENRY PLOT NAME :

GENERAL NOTES

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

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

CROSS DRAIN PIPE LOCATIONS AND ELEVATIONS AS SHOWN ON THE CROSS SECTION ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

REFERENCE LINE BASED ON AS BUILT AND BEST FIT OF EXISTING ROADWAY CONDITIONS. IT DOES NOT REFLECT THE EXISTING CENTERLINE. EXISTING CENTERLINE TO REMAIN AS FINISHED CENTERLINE.

GUARDRAIL LOCATIONS BASED ON EXISTING CENTERLINE. PROPOSED LOCATIONS MAY VARY FROM EXISTING CONDITIONS. PAVE NEW ASPHALT TO FACE OF RAIL AND REMOVE ANY EXISTING ASPHALT BEYOND THESE LIMITS.

TEMPORARY OR PERMANENT PAVEMENT MARKING MUST BE PRESENT ON ROADWAY AT ALL TIMES BY THE END OF EACH WORK DAY.

PLACE PCMS SIGN AT DETOUR START/END 7 DAYS PRIOR TO DETOUR BEGINNING WITH MESSAGE "DETOUR BEGINS MTH DAY".

ORDER OF SECTION 2 SHEETS

GENERAL NOTES

PROJECT OVERVIEW

TYPICAL SECTIONS

CURB RAMP DETAILS

CONSTRUCTION DETAILS

EROSION CONTROL PLAN

PAVEMENT MARKING

TRAFFIC CONTROL

DETOURS

DESIGN CONTACTS

DEPARTMENT OF NATURAL RESOURCES
ATTN: LEAH NICOL
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
OFFICE: 715.934.9014
EMAIL: leah.nicol@wisconsin.gov

GREMMER & ASSOCIATES, INC.
ATTN: DEXTER KAETTERHENRY
120 WILSHIRE BOULEVARD NORTH
STEVENS POINT, WI 54481
OFFICE: 715.341.4363
EMAIL: d.kaetterhenry@gremmerassociates.com

WISCONSIN DEPARTMENT OF TRANSPORTATION
ATTN: BETH CUNNINGHAM
W7102 GREEN VALLEY ROAD
SPOONER, WI 54801
OFFICE: 715.635.4973
EMAIL: beth.cunningham@dot.wi.gov

UTILITIES - 7600-00-72

ARVIG COMMUNICATION SYSTEMS - COMMUNICATION LINE
ATTN: STEVE MALIKOWSKI
160 SECOND STREET SW
PERHAM, MN 56573
OFFICE: 218.346.8411
EMAIL: steve.malikowski@arvig.com

CENTURYLINK - COMMUNICATION LINE
ATTN: KYLE SCHLAMPP
20 S WILSON AVE
RICE LAKE, WI 54868
OFFICE: 715-475-2029
EMAIL: kyle.schlampp@lumen.com

DUNN ENERGY COOPERATIVE - ELECTRIC
ATTN: LOREN LUZINSKI
N5725 600TH STREET
P.O. BOX 220
MENOMONIE, WI 54751
OFFICE: 715.232.6240
EMAIL: loren@dunnenergy.com

ELK MOUND MUN WATER & SEWER UTILITY - WATER
ATTN: MARK LEVRA
E206 MENOMONIE STREET
P.O. BOX 188
ELK MOUND, WI 54739
OFFICE: 715.879.5011
EMAIL: mark@elkmound.org

MCI COMMUNICATION SERVICES INC - COMMUNICATION LINE
ATTN: RJ CICATELLO JR.
15725 W RYERSON RD
NEW BERLIN, WI 53151
OFFICE: 262.232.1323
EMAIL: randy.cicatello@verizon.com

SPECTRUM - COMMUNICATION LINE
ATTN: ROBERT STEPHENS
1201 MCCANN DRIVE
ALTOONA, WI 54720
OFFICE: 715.214.1173
EMAIL: Robert.Stephens@charter.com

XCEL ENERGY - ELECTRICITY TRANSMISSION
ATTN: JOSH TOMLINSON
414 NICOLLET MALL
MINEAPOLIC, MN 55401
OFFICE: 715.355.9126
EMAIL: JOSHUA.TOMLINSON@xcelenergy.com

XCEL ENERGY - ELECTRICITY
ATTN: JOHN KELSER
1400 WESTERN AVE
EAU CLAIRE, WI 54701
OFFICE: 715.737.6020
EMAIL: john.kelser@xcelenergy.com

UTILITIES - 8620-00-75

ARVIG COMMUNICATION SYSTEMS - COMMUNICATION LINE
ATTN: STEVE MALIKOWSKI
160 SECOND STREET SW
PERHAM, MN 56573
OFFICE: 218.346.8411
EMAIL: steve.malikowski@arvig.com

BLOOMER TELEPHONE COMPANY - COMMUNICATION LINE
ATTN: CRAIG JISKRA
1120 15TH AVE
BLOOMER, WI 54724
OFFICE: 715.568.4830
EMAIL: craig.jiskra@bloomerbroadband.com

CINC - COMMUNICATION LINE
ATTN: DAREN BAUER
105 GARFIELD AVE
EAU CLAIRE, WI 54701
OFFICE: 715.836.5286
EMAIL: bauerdp@uwec.edu

COLFAX MUN WATER AND SEWER UTILITY
ATTN: RAND BATES
613 MAIN STREET
COLFAX, WI 54730
OFFICE: 715.308.0861
EMAIL: dpwdirector@vi.colfax.wi.gov

CENTURYLINK - COMMUNICATION LINE
ATTN: KYLE SCHLAMPP
20 S WILSON AVE
RICE LAKE, WI 54868
OFFICE: 715-475-2029
OFFICF: kyle.schlampp@lumen.com

DAIRYLAND POWER COOPERATIVE - ELECTRIC
ATTN: MICHAEL LYDON
P.O. BOX 817
LA CROSSE, WI 54602
OFFICE: 608.787.1381
EMAIL: michael.lydon@dairylandpower.com

DUNN ENERGY COOPERATIVE - ELECTRIC
ATTN: LOREN LUZINSKI
N5725 600TH STREET
P.O. BOX 220
MENOMONIE, WI 54751
OFFICE: 715.232.6240
EMAIL: loren@dunnenergy.com

LEVEL 3 COMMUNICATIONS LLC - COMMUNICATION LINE
ATTN: RYAN HEIKKILA
715 2ND STREET N
MINNEAPOLIS, MN 55401
OFFICE: 612-741-2782
EMAIL: ryan.heikkila@lumen.com

SPECTRUM - COMMUNICATION LINE
ATTN: ROBERT STEPHENS
1201 MCCANN DRIVE
ALTOONA, WI 54720
OFFICE: 715.214.1173
EMAIL: Robert.Stephens@charter.com

VIKING GAS TRANSMISSION COMPANY - GAS
ATTN: STEVE KEILEN
2077 70TH AVE
OSCEOLA, WI 54020
OFFICE: 715.294.2155
OFFICF: steven.keilen@oneok.com

WE ENERGIES - GAS
ATTN: TRAVIS KAHL
1921 8TH STREET
WISCONSIN RAPIDS, WI 54494
OFFICE: 715.421.7256
EMAIL: we-utility-relocations@we-energies.com

WINDSTREAM KDL LLC - COMMUNICATION LINE
ATTN: LORI KETTER
969 WAUBE LANE
GREEN BAY, WI 54304
OFFICE: 920.410.6902
EMAIL: lori.ketter@windstream.com

XCEL ENERGY - ELECTRICITY TRANSMISSION
ATTN: JOSH TOMLINSON
414 NICOLLET MALL
MINEAPOLIS, MN 55401
OFFICE: 715.355.9126
EMAIL: JOSHUA.TOMLINSON@xcelenergy.com

XCEL ENERGY - ELECTRICITY
ATTN: JOHN KELSER
1400 WESTERN AVE
EAU CLAIRE, WI 54701
OFFICE: 715.737.6020
EMAIL: john.kelser@xcelenergy.com

RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 53.85 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 7.71 ACRES

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

2

NET EXCEPTION TO CL LENGTH
STA 942+45 - STA 943+20
STRUCTURE B-17-984
BRIDGE JOIN REPAIR LOCATION

END PROJECT 8620-00-75
STA 994+00

HAY RIVER

RED CEDAR RIVER

TAINTER LAKE

COLFAX

CANADIAN NATIONAL

950+00

900+00

850+00

800+00

750+00

700+00

650+00

6000+00

550+00

500+00

450+00

CROSSING 692959P
STA 928+88 - STA 929+62
CROSSING REPLACEMENT LOCATION

NET EXCEPTION TO CL LENGTH
STA 766+45 - STA 766+83
STRUCTURE B-17-120

CULVERT REPLACEMENT LOCATION

CULVERT REPLACEMENT LOCATION

NET EXCEPTION TO CL LENGTH
STA 501+74 - STA 504+41
STRUCTURE B-17-182

BEGIN PROJECT 8620-00-75
END PROJECT 7600-00-72
STA 515+04

NET EXCEPTION TO CL LENGTH
STA 463+17 - STA 464+10
CROSSING 411776X

BEGIN PROJECT 7600-00-72
STA 432+72

MENOMONIE

ELK MOUND

BIG ELK CREEK

ELK CREEK

TAINTER LAKE 1667

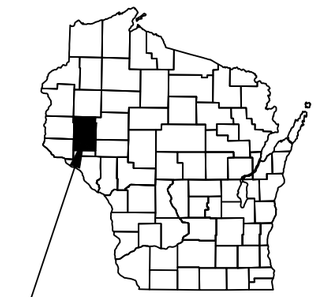
890TH AVE
830TH AVE
810TH AVE
770TH AVE
760TH AVE
730TH AVE
720TH AVE
690TH AVE
680TH AVE
650TH AVE
640TH AVE
620TH AVE
610TH AVE
590TH AVE
570TH AVE
530TH AVE
50TH AVE
90TH AVE
80TH AVE
740TH AVE
630TH AVE

730TH ST
780TH ST
870TH ST
970TH ST
950TH ST
910TH ST
830TH ST
730TH ST
670TH ST
765TH ST
906TH ST
1010TH ST
20TH ST
15TH ST
970TH ST

780TH AVE

SCENIC RD
FRAIZER RD
ANDERSON RD

170
40
BB
A
N
25
B
M
E
H
94
12
29

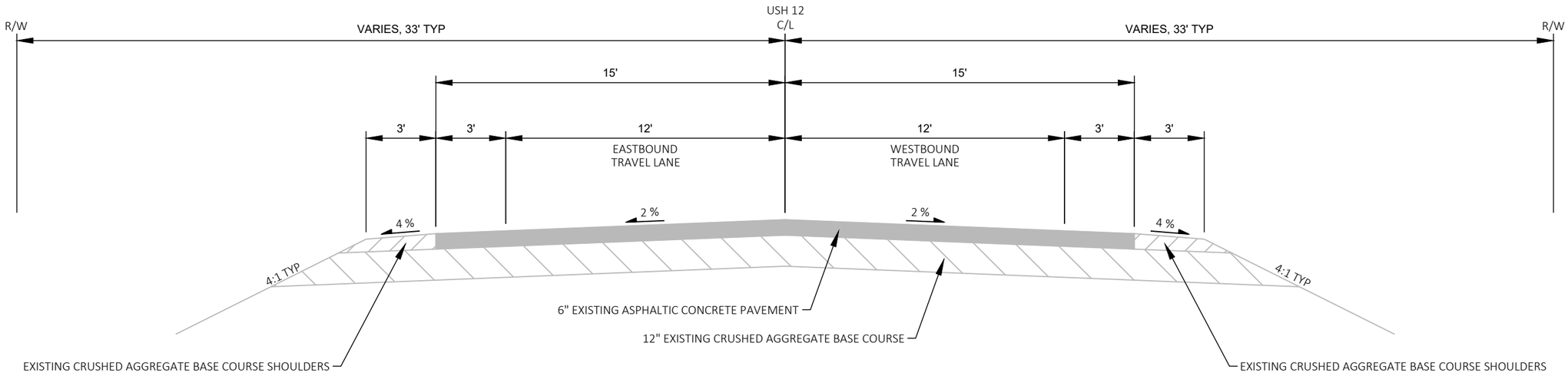


N

PROJECT LOCATION
DUNN COUNTY
NW REGION - EAU CLAIRE OFFICE

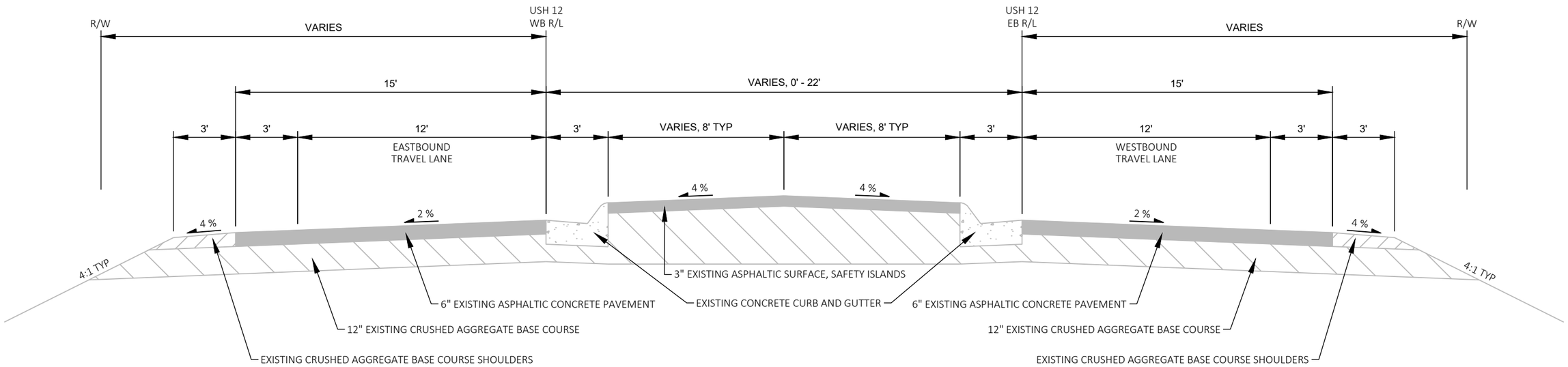
PROJECT NO: 7600-00-72/8620-00-75	HWY: USH 12/STH 40	COUNTY: DUNN	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\020201_PO\020201_PO.DWG
LAYOUT NAME - 01
PLOT DATE : 7/31/2025 3:32 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION

STA 432+72 - 486+95

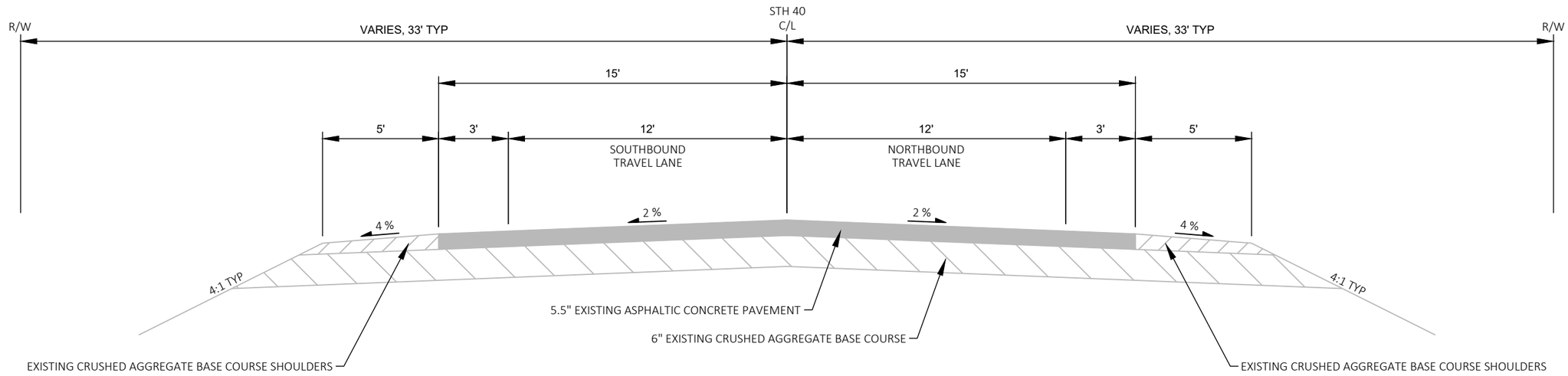


EXISTING TYPICAL SECTION

STA 486+95 - 535+38

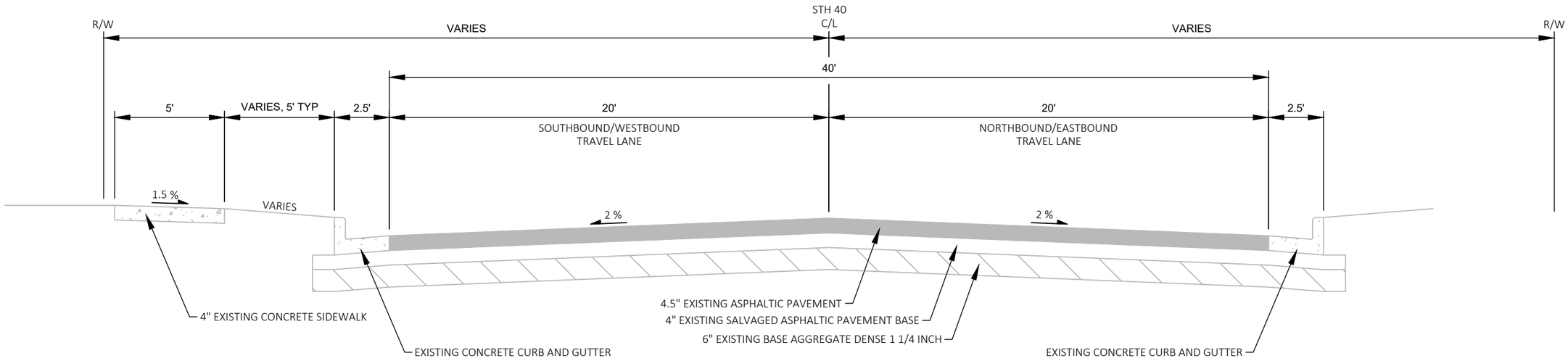
PROJECT NO: 7600-00-72/8620-00-75	HWY: USH 12/STH 40	COUNTY: DUNN	TYPICAL SECTIONS	SHEET 4	E

2



EXISTING TYPICAL SECTION

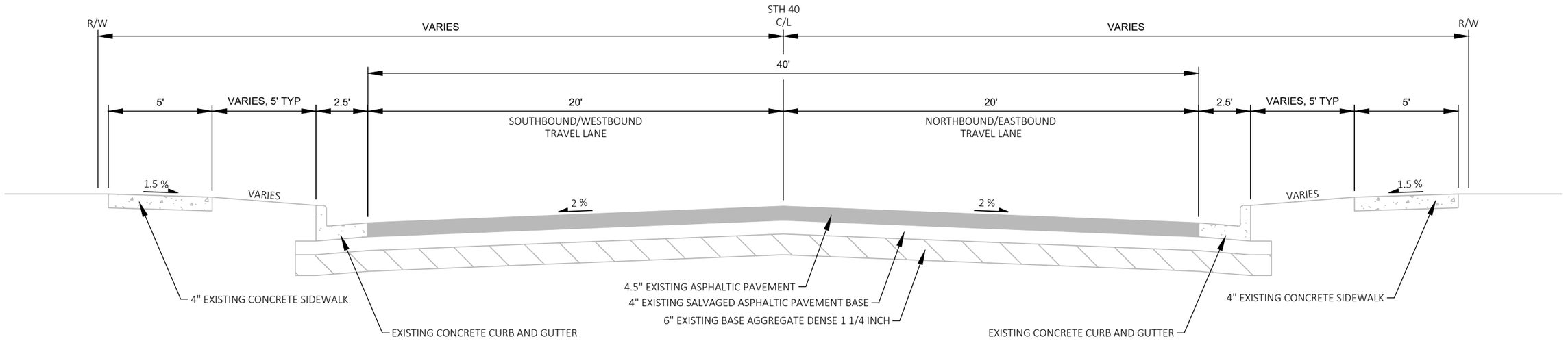
STA 535+38 - 909+63



EXISTING TYPICAL SECTION

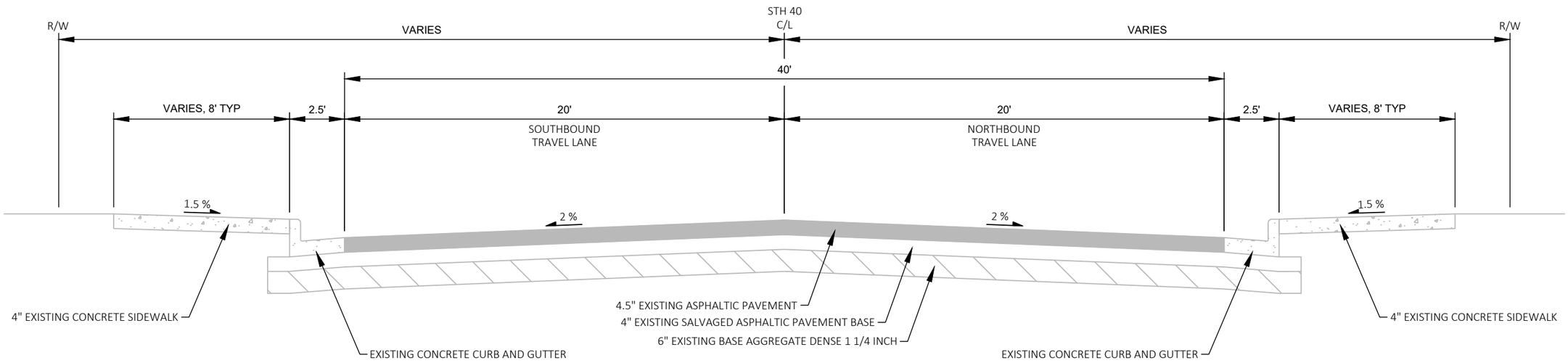
STA 909+63 - 917+95
STA 967+18 - 981+71

PROJECT NO: 7600-00-72/8620-00-75	HWY: USH 12/STH 40	COUNTY: DUNN	TYPICAL SECTIONS	SHEET 5	E



EXISTING TYPICAL SECTION

STA 917+95 - 929+65
STA 945+08 - 967+18

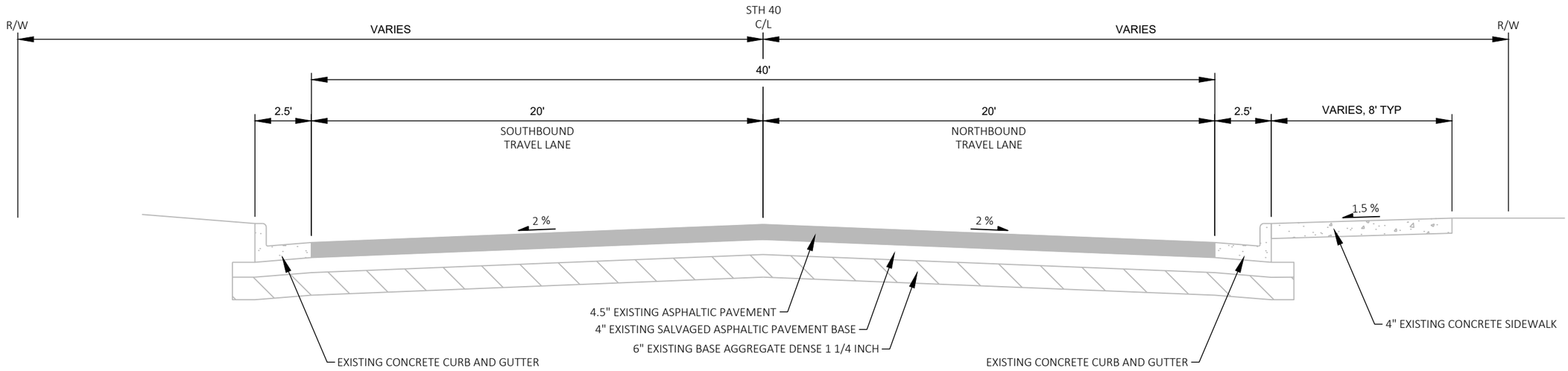


EXISTING TYPICAL SECTION

STA 929+65 - 941+23

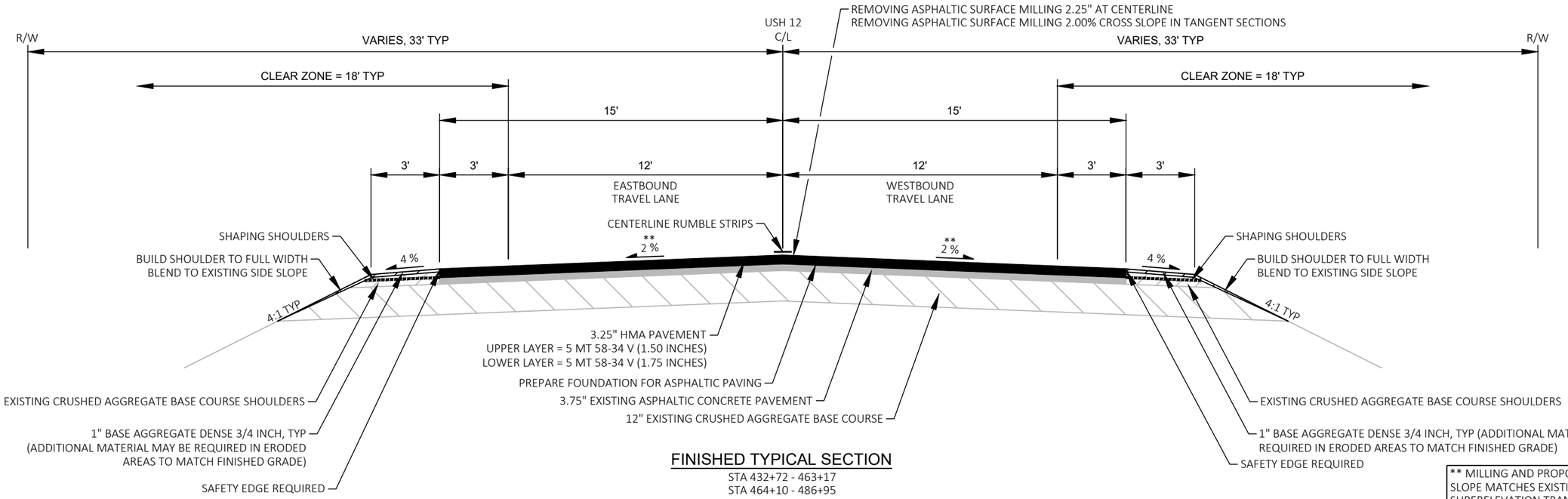
PROJECT NO: 7600-00-72/8620-00-75	HWY: USH 12/STH 40	COUNTY: DUNN	TYPICAL SECTIONS	SHEET 6	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\020301_TS\020301_TS.DWG
LAYOUT NAME - 03-5ft
PLOT DATE : 10/27/2025 3:55 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:5 FT



EXISTING TYPICAL SECTION

STA 941+23 - 945+08

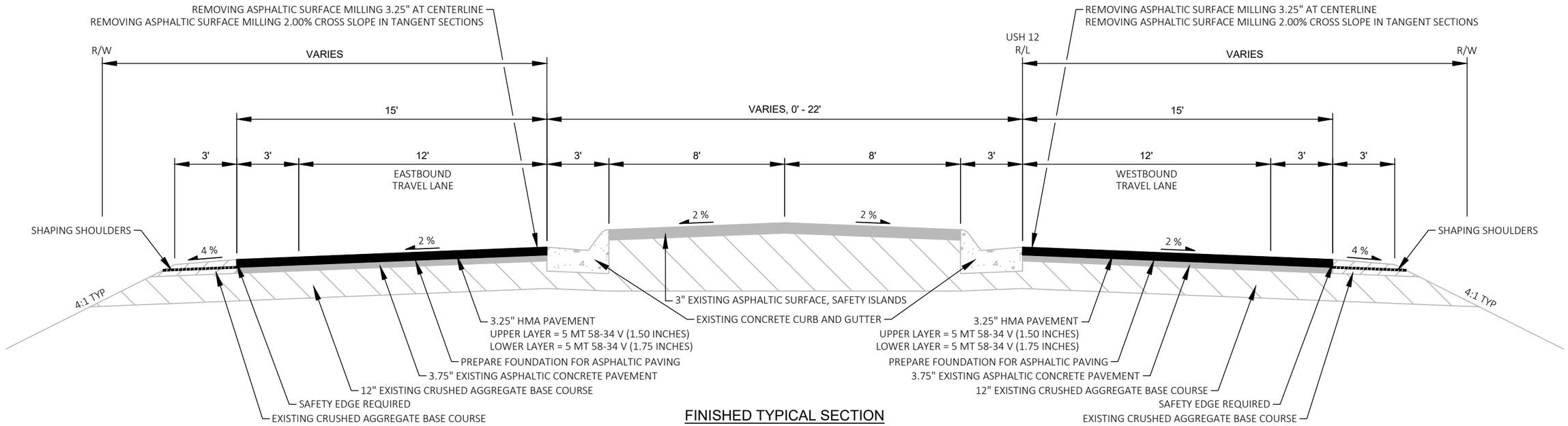


FINISHED TYPICAL SECTION

STA 432+72 - 463+17
STA 464+10 - 486+95

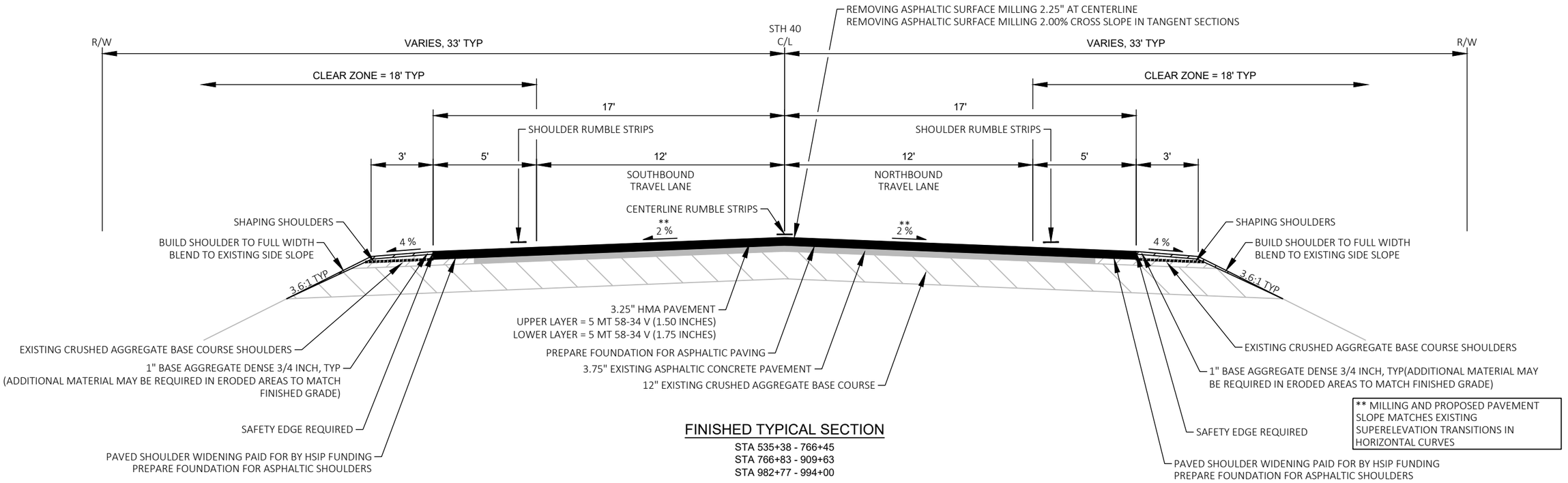
** MILLING AND PROPOSED PAVEMENT SLOPE MATCHES EXISTING SUPERELEVATION TRANSITIONS IN HORIZONTAL CURVES

PROJECT NO: 7600-00-72/8620-00-75	HWY: USH 12/STH 40	COUNTY: DUNN	TYPICAL SECTIONS	SHEET 7	E



FINISHED TYPICAL SECTION

STA 486+95 - 501+74
STA 504+41 - 535+38

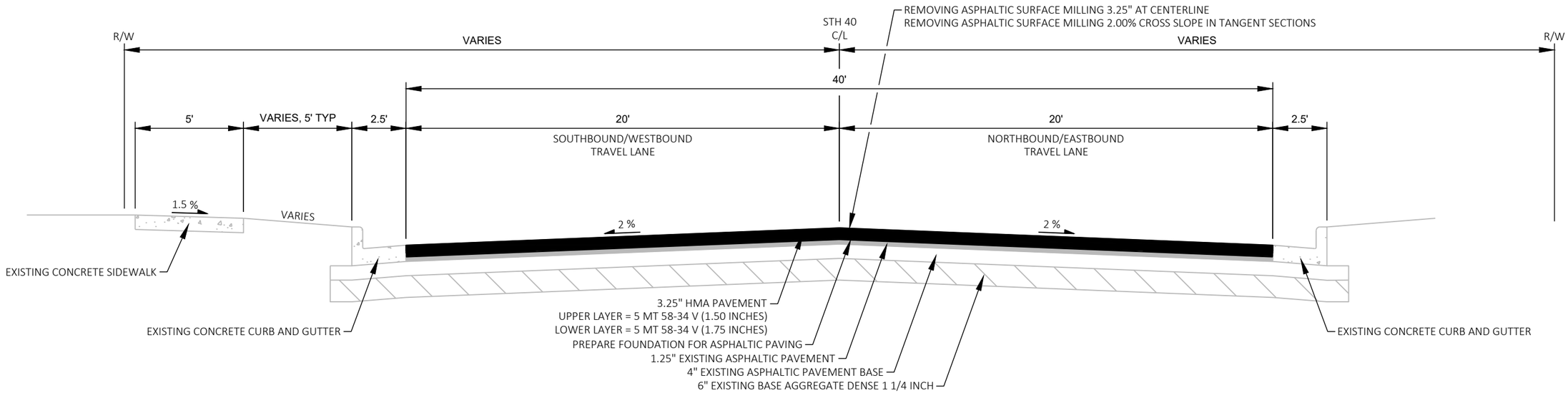


FINISHED TYPICAL SECTION

STA 535+38 - 766+45
STA 766+83 - 909+63
STA 982+77 - 994+00

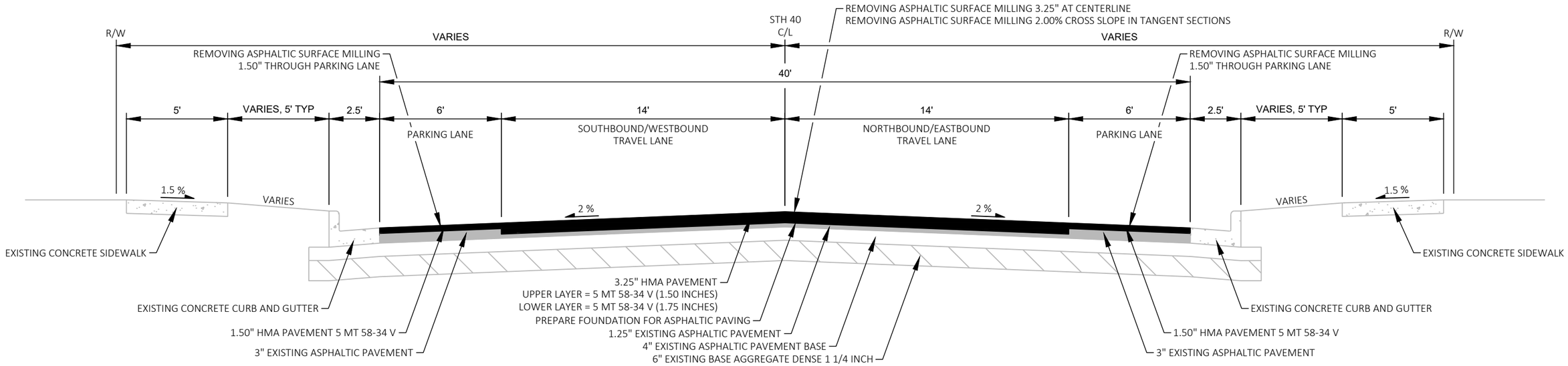
PROJECT NO: 7600-00-72/8620-00-75	HWY: USH 12/STH 40	COUNTY: DUNN	TYPICAL SECTIONS	SHEET 8	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\020301_TS\020301_TS.DWG
LAYOUT NAME - 05-5ft
PLOT DATE : 10/27/2025 3:55 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:5 FT
WISDOT/CADDS SHEET 42



FINISHED TYPICAL SECTION

STA 909+63 - 917+95



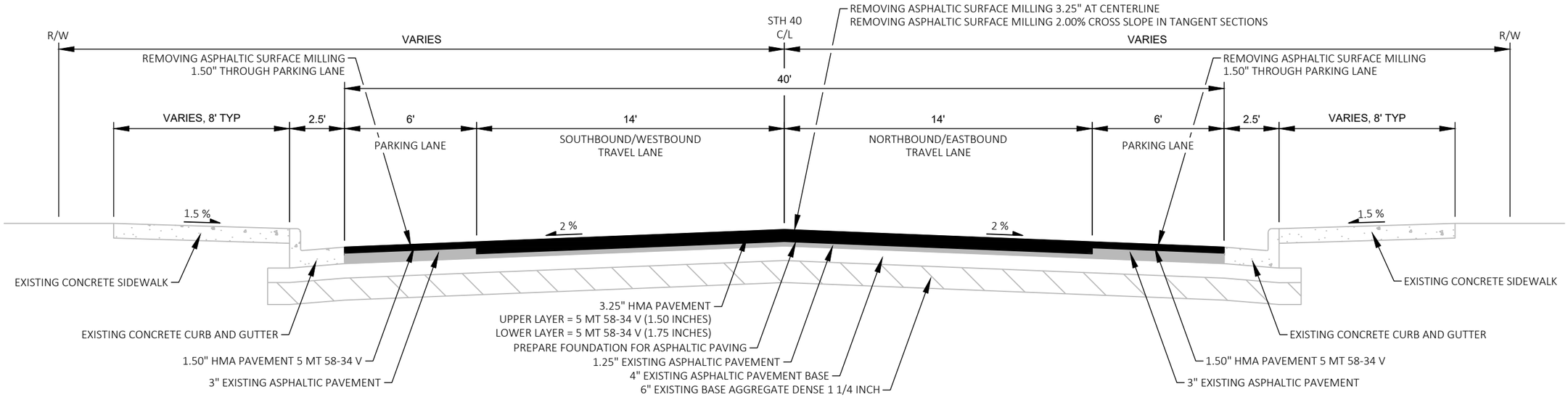
FINISHED TYPICAL SECTION

STA 917+95 - 929+65
STA 945+08 - 967+18

PROJECT NO: 7600-00-72/8620-00-75	HWY: USH 12/STH 40	COUNTY: DUNN	TYPICAL SECTIONS	SHEET 9	E

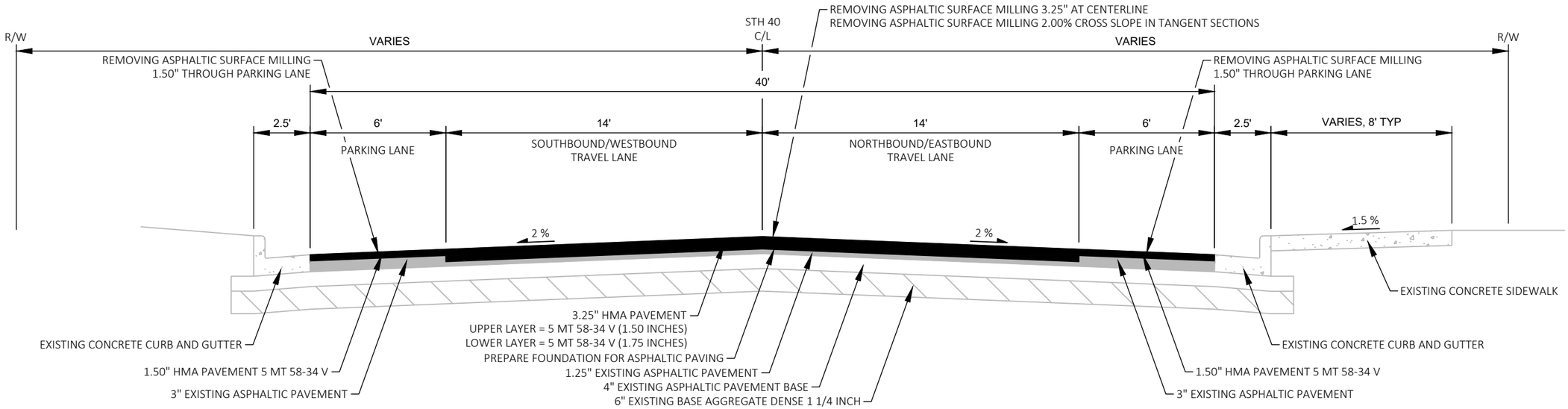
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\020301_TS\020301_TS.DWG
LAYOUT NAME - 06-5ft

PLOT DATE : 10/27/2025 3:55 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:5 FT



FINISHED TYPICAL SECTION

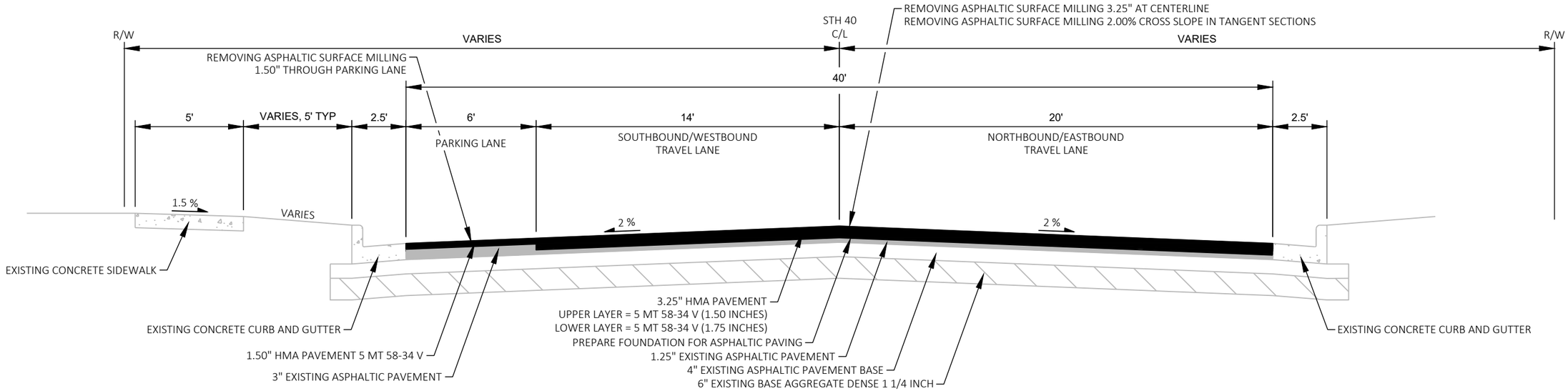
STA 929+65 - 941+23



FINISHED TYPICAL SECTION

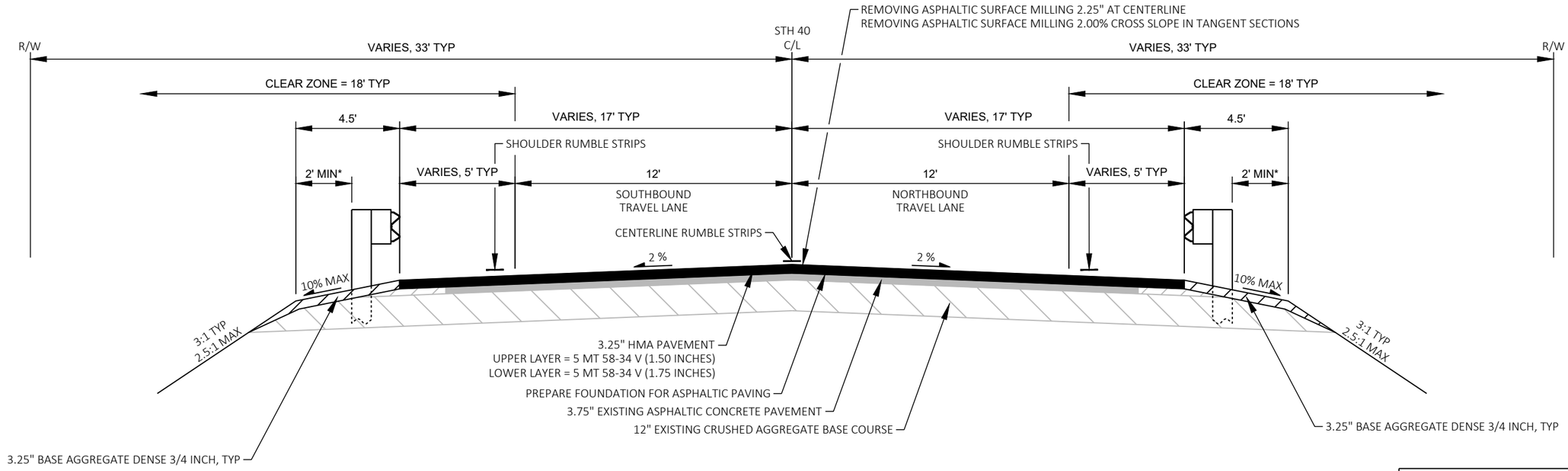
STA 941+23 - 942+45
STA 943+20 - 945+08

PROJECT NO: 7600-00-72/8620-00-75	HWY: USH 12/STH 40	COUNTY: DUNN	TYPICAL SECTIONS	SHEET 10	E



FINISHED TYPICAL SECTION

STA 967+18 - 982+77



FINISHED TYPICAL SECTION

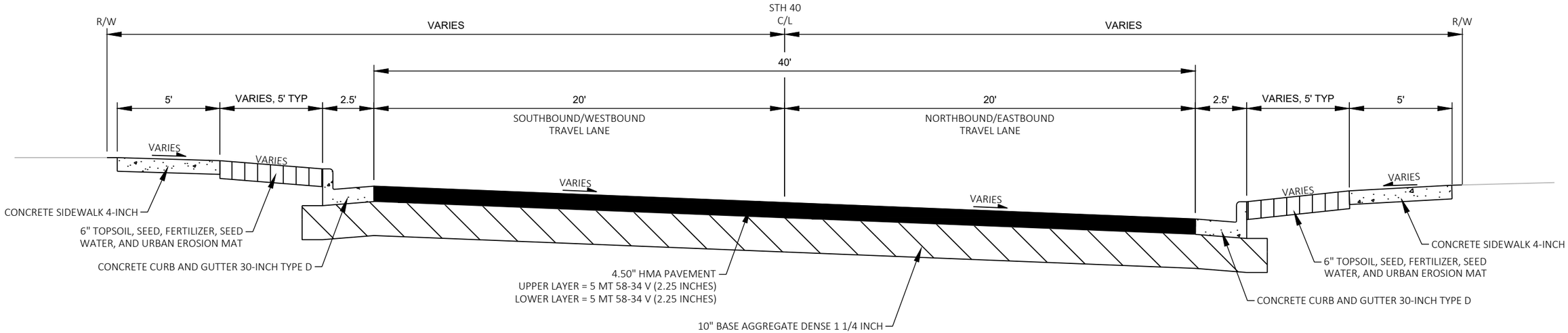
BEAMGUARD

NOTES:

* IN LOCATIONS WHERE MGS GUARDRAIL 3 K IS UTILIZED WIDTH MAY BE REDUCED TO 0' BEHIND POSTS. SEE CONSTRUCTION DETAILS AND CROSS SECTIONS FOR MORE INFORMATION.

PROJECT NO: 7600-00-72/8620-00-75	HWY: USH 12/STH 40	COUNTY: DUNN	TYPICAL SECTIONS	SHEET 11	E

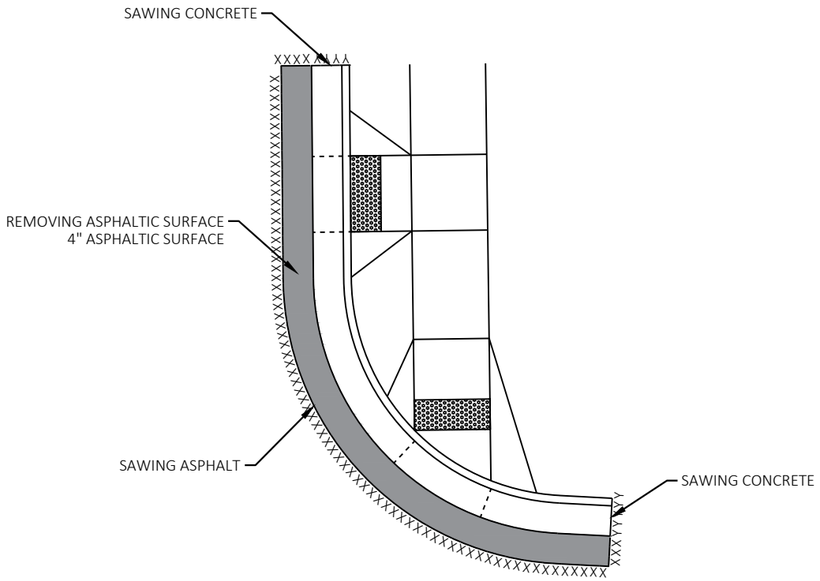
2



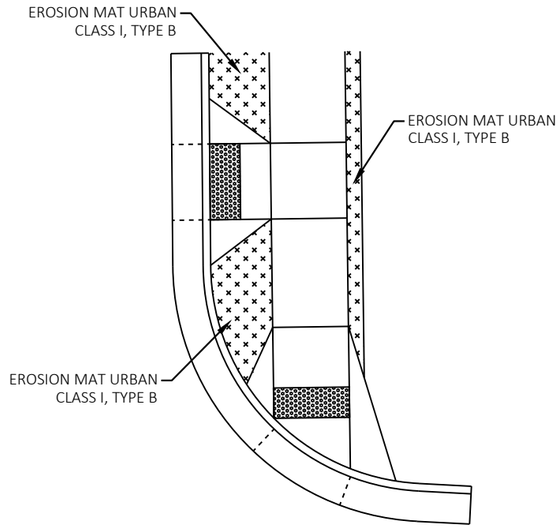
FINISHED TYPICAL SECTION

RAILROAD CROSSING 692959P

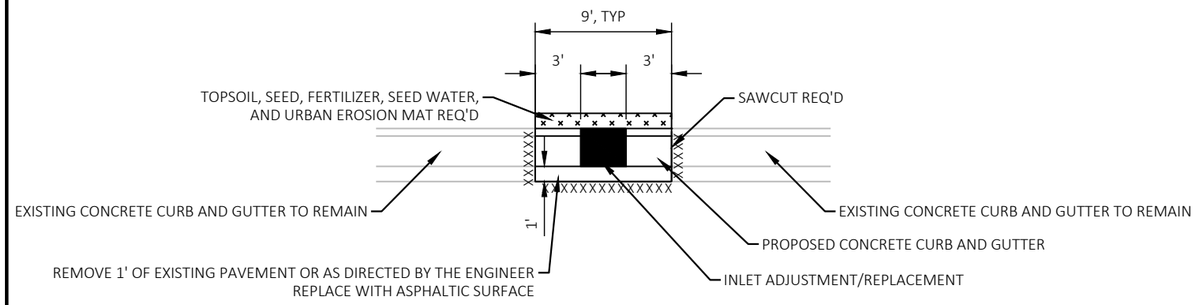
NOTES:
SEE SDD 13B01-11B TYPICAL SECTION FOR RAILWAY APPROACH FOR ADDITIONAL INFORMATION.

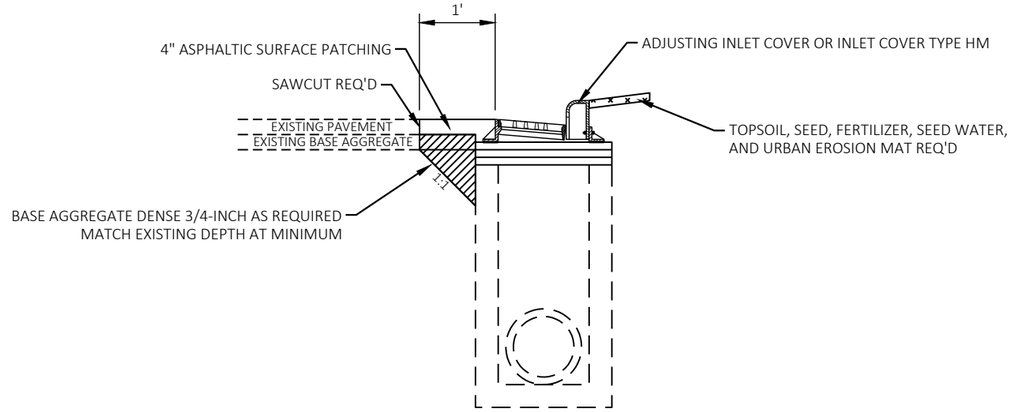


ROADWAY WORK AT CURB RAMP REPLACEMENT DETAIL

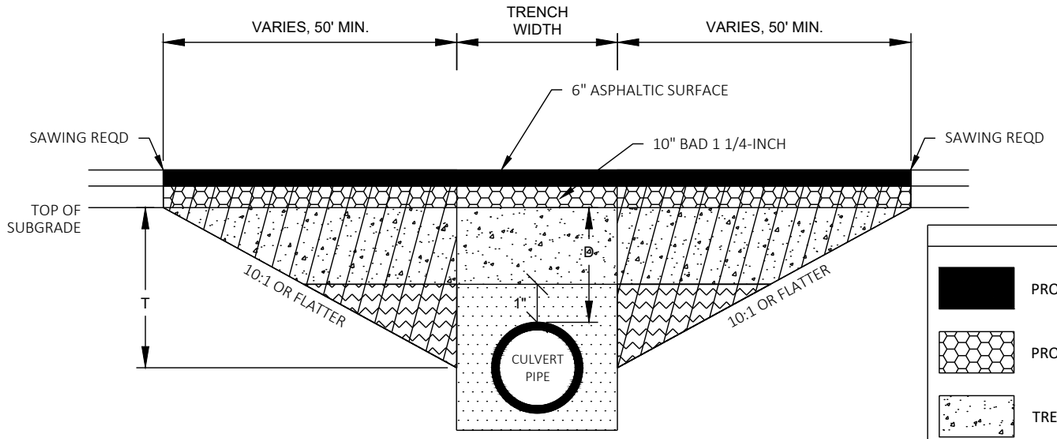


EROSION MAT URBAN AT CURB RAMP REPLACEMENT DETAIL





INLET ADJUSTMENT/RECONSTRUCTING DETAIL



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

DEPTH D < 6 FT

KEY

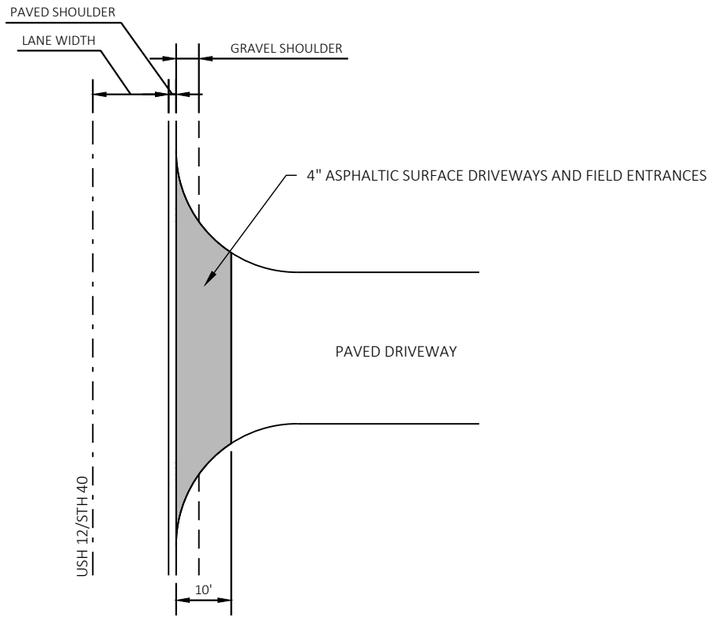
- PROPOSED SURFACE
- PROPOSED BASE
- TRENCH BACKFILL
- TRENCH OR FOUNDATION BACKFILL
- FOUNDATION BACKFILL
- TRANSITION CUT

NOTES

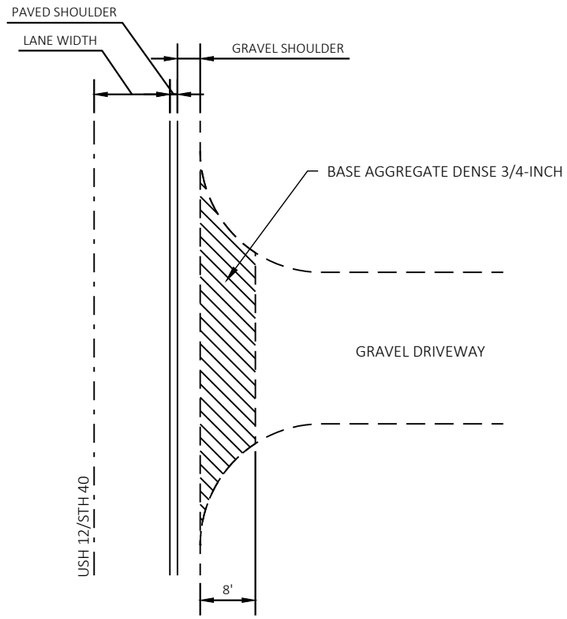
TRANSITION CUT IS PAID AS EXCAVATION COMMON.
TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT.
BACKFILL THE TRANSITION CUT AREAS WITH FOUNDATION AND TRENCH BACKFILL AS SPECIFIED IN STANDARD SPEC 520.
PERFORM CULVERT PIPE INSTALLATION BEFORE MILLING OPERATIONS.
PLACE ASPHALTIC SURFACE PATCHING AFTER CULVERT PIPE INSTALLATION AND BEFORE CIR OPERATIONS.

CULVERT PIPE TRANSITION

ROUTE	STA (CL)	DEPTH D (FT)	PIPE DIA (IN)	REMARKS
STH 40	619+52.58	4.5	42	CPRC CLASS III
STH 40	631+46.65	2.5	48	CPRC CLASS III
STH 40	664+83.78	3.0	60	CPRC CLASS III
STH 40	679+59.80	2.5	60	CPRC CLASS III



PAVED DRIVEWAY DETAIL



GRAVEL DRIVEWAY DETAIL

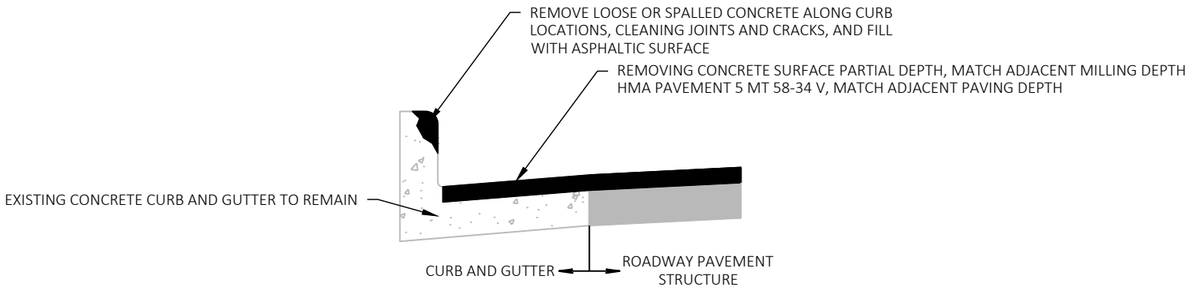
2

2

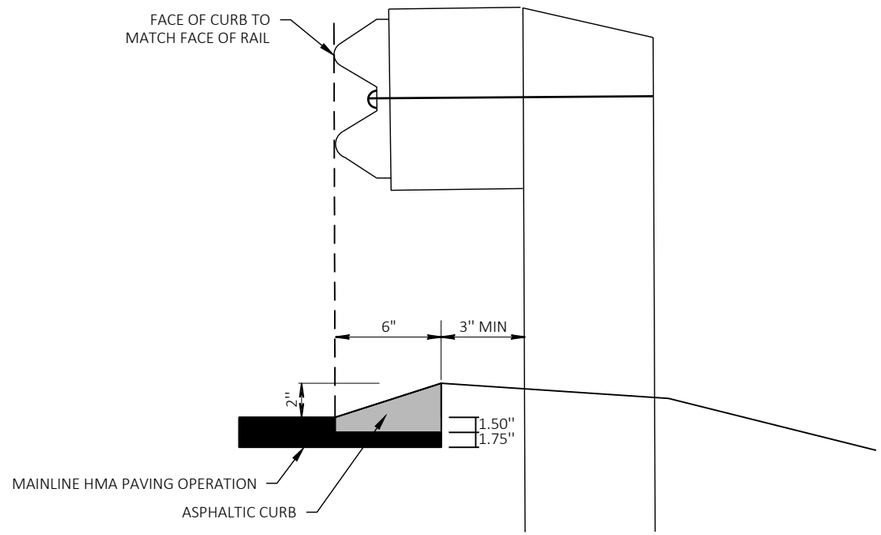
SUPERELEVATION DATA

ROADWAY	CURVE NO.	PC	PT	R (FT)	TRANSITION IN REGION					TRANSITION OUT REGION					MAX e	DESIGN SPEED (MPH)
					END NORMAL CROWN	LEVEL CROWN	REVERSE CROWN	LOW SHOULDER MATCH	BEGIN FULL SUPER	END FULL SUPER	LOW SHOULDER MATCH	REVERSE CROWN	LEVEL CROWN	BEGIN NORMAL CROWN		
USH 12	1	436+64.85	441+69.86	650.00	435+91.39	436+27.51	436+63.64	-	436+83.51	441+51.19	-	441+71.06	442+07.19	442+43.32	3.10%	30
USH 12	2	446+25.56	460+43.94	625.00	445+52.09	445+88.22	446+24.35	-	446+44.22	460+25.28	-	460+45.15	460.81.28	461+17.41	3.10%	30
USH 12	3	466+52.14	477+63.09	1150.00	465+27.30	465+80.80	466+34.30	-	466+87.80	477+27.42	-	477+80.92	478+34.42	478+87.92	4.00%	30
STH 40	4	510+10.54	524+57.75	3200.00	509+00.75	509+53.87	510+07.00	-	510+38.87	524+29.42	-	524+61.30	525+14.42	525+67.55	3.20%	60
STH 40	5	533+55.32	546+39.54	1450.00	532+30.48	532+83.98	533+37.48	-	533+90.98	546+03.87	-	546+57.37	547+10.87	547+64.37	4.00%	60
STH 40	6	551+54.15	558+06.20	2300.00	550+34.63	550+88.15	551+41.66	-	551+87.15	557+73.20	-	558+18.69	558+72.20	559+25.71	3.70%	60
STH 40	7	561+69.54	569+97.62	1800.00	560+44.70	560+98.20	561+51.70	-	562+05.20	569+61.96	-	570+15.46	570+68.96	571+22.46	4.00%	60
STH 40	8	574+55.66	577+33.84	2000.00	573+32.99	573+86.32	574+39.65	-	574+90.32	576+99.17	-	577+49.84	578+03.17	578+56.51	3.90%	60
STH 40	9	637+83.74	644+24.26	2000.00	636+61.07	637+14.40	637+67.74	-	638+18.40	643+91.59	-	644+42.26	644.95.59	645+48.93	3.90%	60
STH 40	10	647+56.04	648+65.19	2000.00	646+33.37	646+86.70	647+40.04	-	647+90.70	648+30.53	-	648+81.20	649+34.53	649+87.86	3.90%	60
STH 40	11	699+09.30	712+37.98	3000.00	697+97.30	698+50.63	699+03.97	-	699+38.63	712+08.65	-	712+43.31	712+96.65	713+49.98	3.30%	60
STH 40	12	739+12.50	759+46.16	2900.00	738+00.50	738+53.83	739+07.16	-	739+41.83	759+16.82	-	759+51.49	760+04.82	760+58.16	3.30%	60
STH 40	14	828+42.56	862+65.86	3400.00	827+33.68	827+87.23	828+40.78	-	828+70.23	862+38.20	-	862+67.65	863+21.20	863+74.75	3.10%	60
STH 40	15	870+50.03	909+60.22	3800.00	869+45.59	869+98.69	870+51.79	-	870+75.69	909+34.56	-	909+58.45	910+11.56	910+64.66	2.90%	60
STH 40	16	937+72.93	939+84.48	600.00	936+98.01	937+34.26	937+70.51	-	937+92.26	939+65.15	-	939+86.90	940+23.15	940+59.40	3.20%	30
STH 40	17	944+15.69	946+73.21	210.00	943+30.52	943+67.02	944+03.52	-	944+40.02	946+48.88	-	946+85.38	947+21.88	947+58.38	4.00%	30
STH 40	18	979+16.38	984+88.14	1800.00	978+54.85	978+91.04	979+27.23	-	979+29.04	984+75.47	-	984+77.28	985+13.47	985+49.66	2.10%	30
STH 40	19	990+76.36	--	4000.00	989+71.92	990+25.03	990+78.13	-	991+02.03	999+57.16	-	99+81.06	-	-	2.90%	60

SUPERELEVATION DATA IS GIVEN FOR INFORMATIONAL PURPOSES ONLY

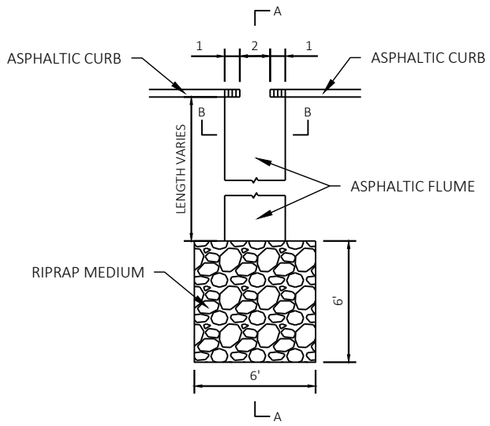


CURB AND GUTTER REPAIR DETAIL

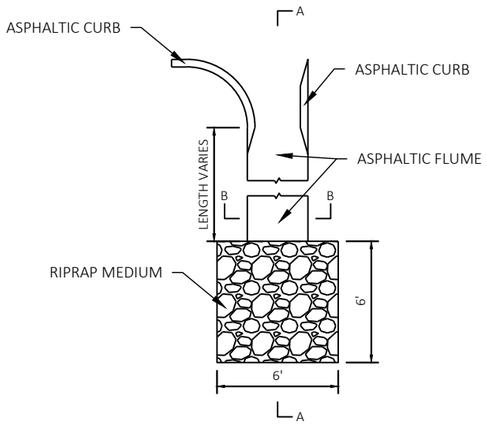


ASPHALTIC CURB AT GUARDRAIL DETAIL

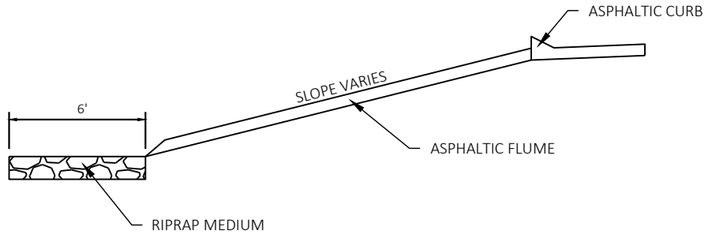
2



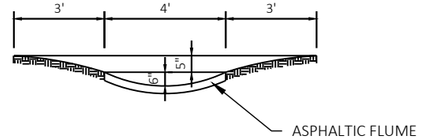
MIDDLE OF CURB



END OF CURB

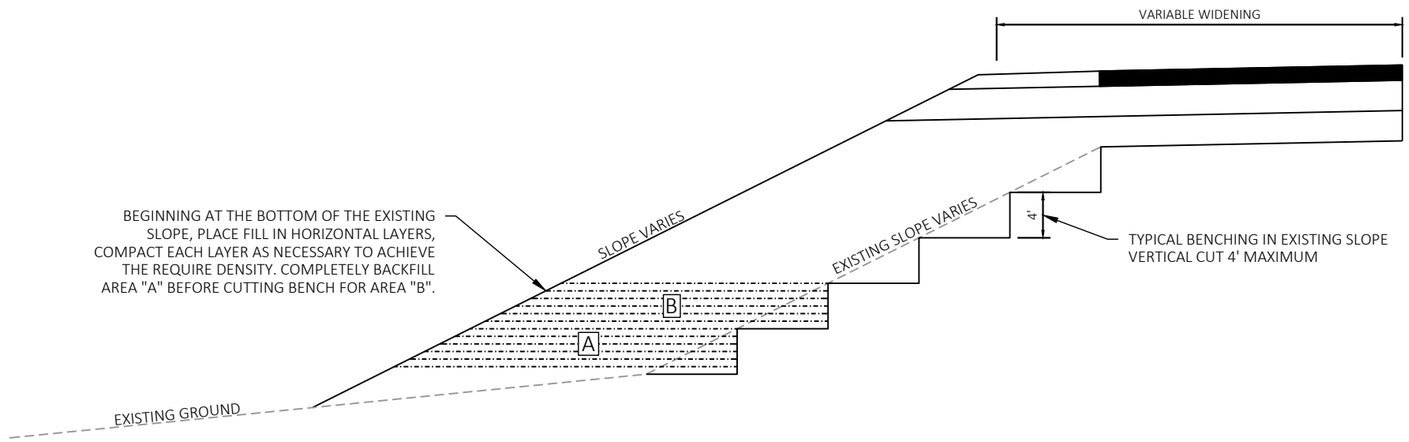


SECTION A-A



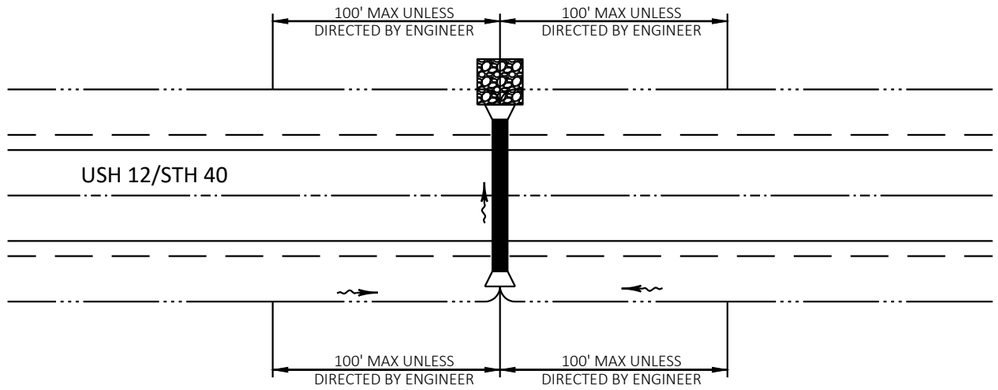
SECTION B-B

ASPHALTIC FLUME DETAILS

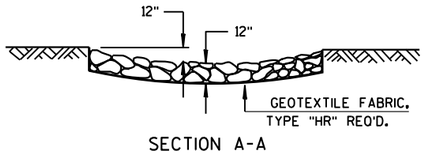


BENCHING FILL INTO EXISTING EMBANKMENT DETAIL

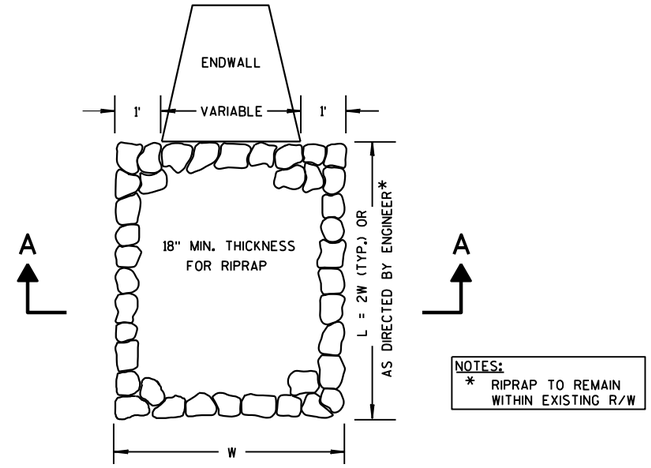
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 16	E



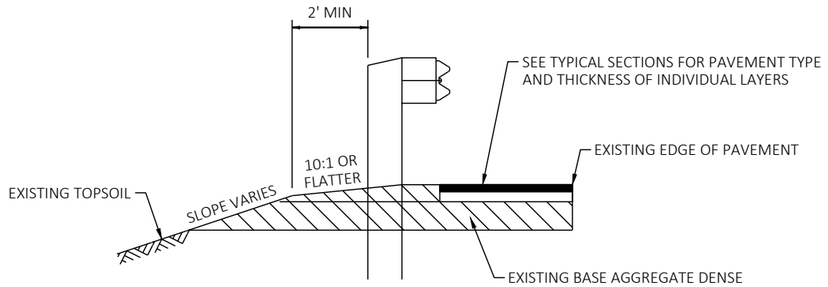
GRADING SHAPING AND FINISHING CULVERT PIPES AND APRON ENDWALLS DETAIL



SECTION A-A

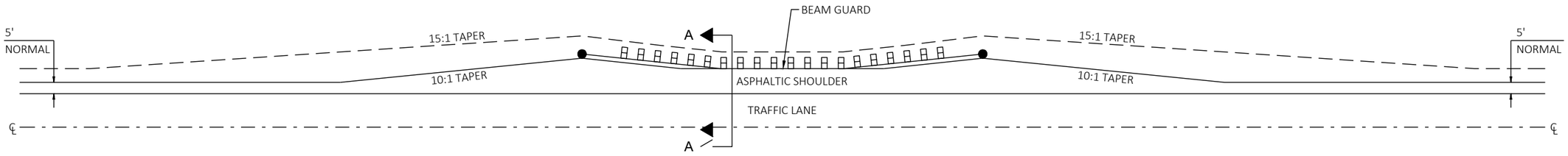


RIPRAP TREATMENT AT CULVERTS

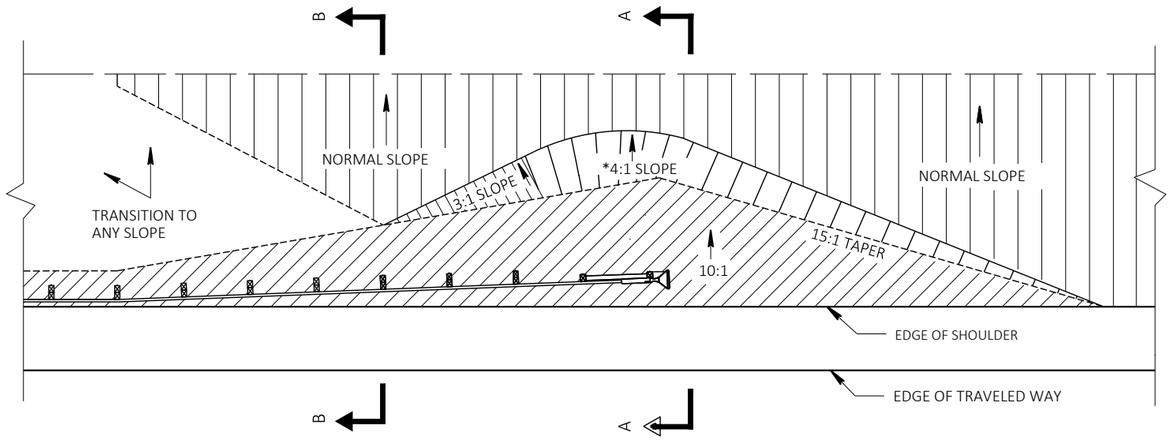


NOTE:
SEE STANDARD DETAIL DRAWINGS
FOR ADDITIONAL INFORMATION

SECTION A-A

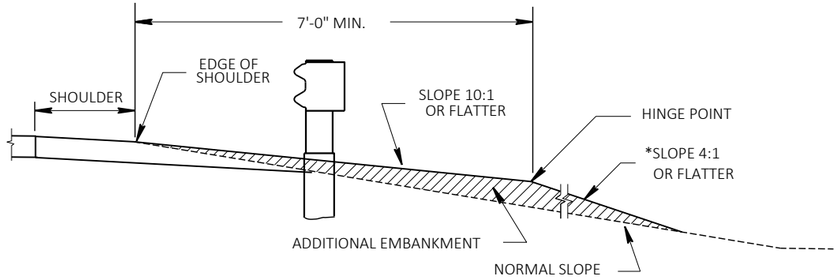


DETAIL FOR ASPHALTIC SHOULDER AT BEAM GUARD

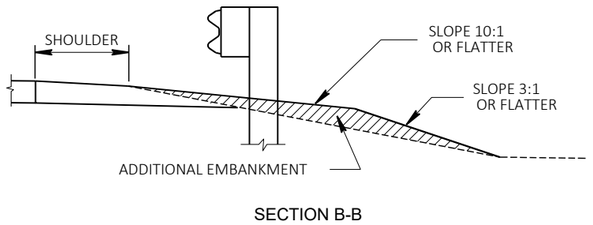


PLAN VIEW

*A 3:1 MAXIMUM SLOPE MAY BE USED FOR INSTALLATIONS ON EXISTING HIGHWAYS.



SECTION A-A



SECTION B-B

FILL AREA AT BEAM GUARD

NOTES

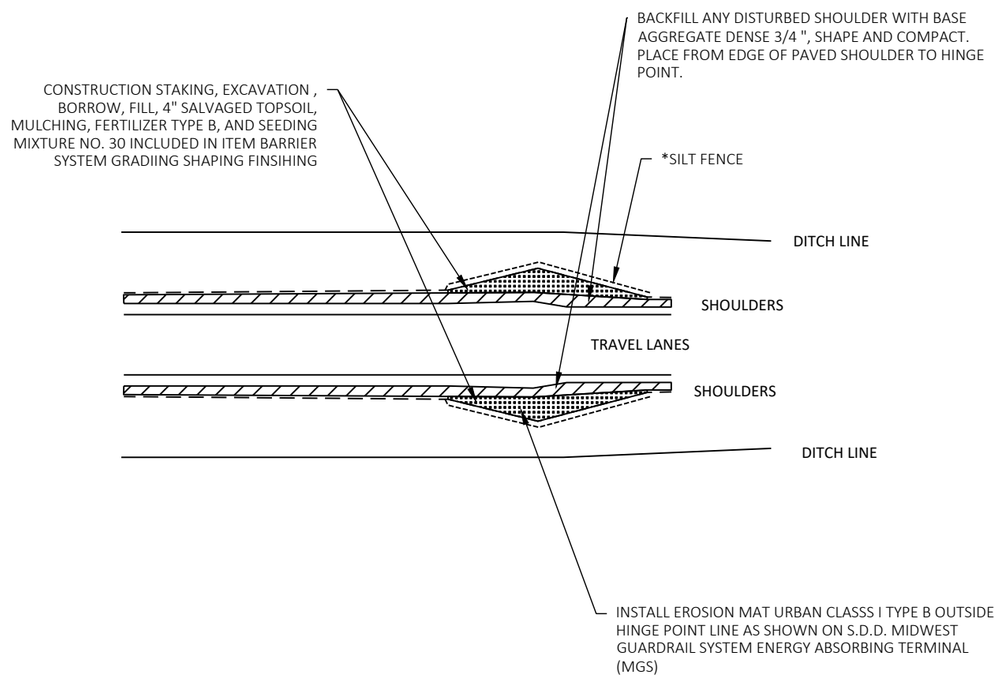
DETAILS OF CONSTRUCTION AND EROSION CONTROL DEVICES NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE WISCONSIN DOT STANDARD DETAILS.

SPECIAL CONSTRUCTION, EROSION CONTROL AND RESTORATION DETAILS PROVIDED IN THE SITE SPECIFIC BEAM GUARD DETAIL AND EROSION CONTROL PLANS.

*TYPICAL EROSION CONTROL DEVICE INSTALLATION. ANY EROSION CONTROL DEVICES NOT SHOWN ON THIS DETAIL WILL BE SHOWN ON THE EROSION CONTROL PLANS. EROSION CONTROL AND CONSTRUCTION REQUIRED AT EACH SITE WILL VARY.

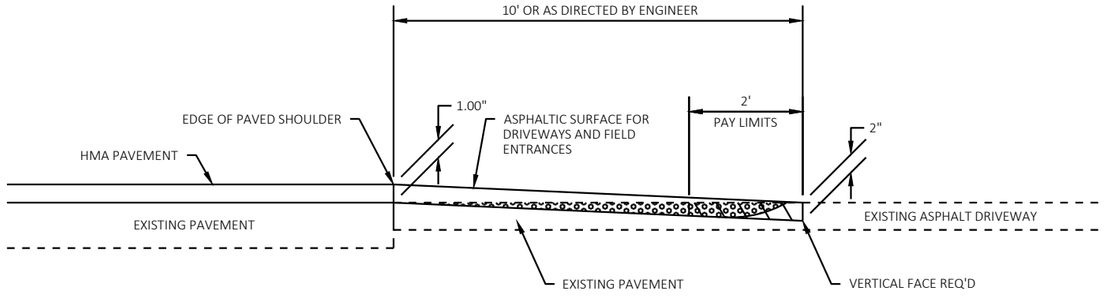
LEGEND

- SILT FENCE
- EROSION MAT URBAN CLASS I TYPE B
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- BASE AGGREGATE DENSE 3/4"



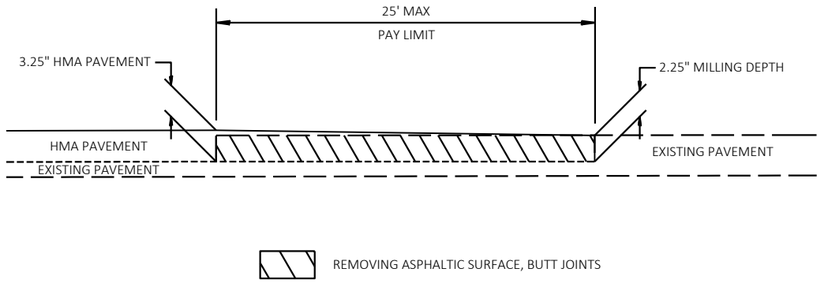
TYPICAL DETAIL FOR CONSTRUCTION, EROSION CONTROL & RESTORATIONS AT MGS ENERGY ABSORBING TERMINAL INSTALLATIONS

2



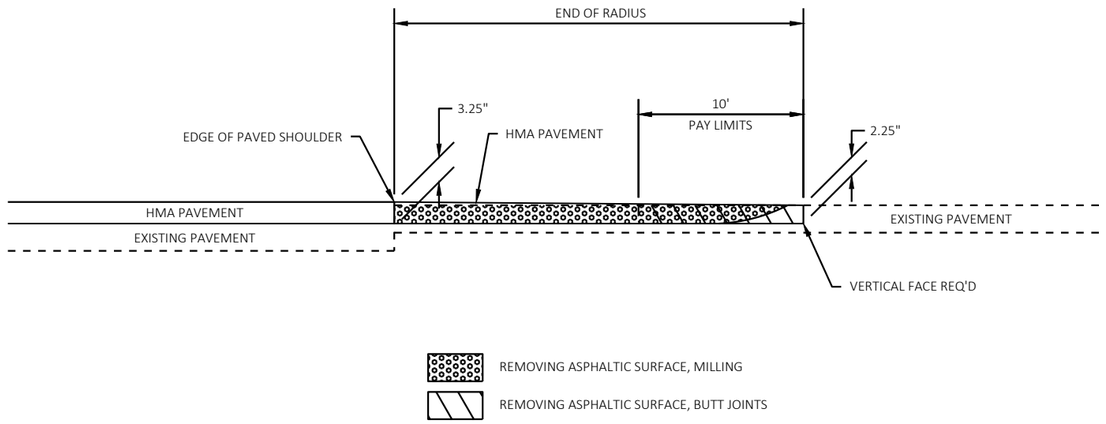
REMOVING ASPHALTIC SURFACE BUTT JOINTS DETAIL

DRIVEWAYS



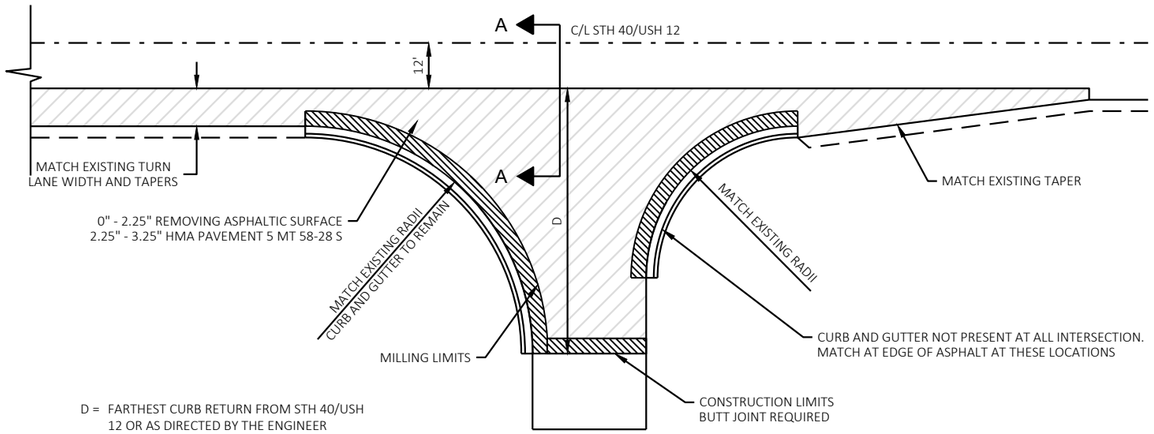
REMOVING ASPHALTIC SURFACE BUTT JOINTS DETAIL

MAINLINE
BEGIN/END OF PROJECT
CROSSING 411776X
STRUCTURES B-17-182, B-17-120, B-17-984

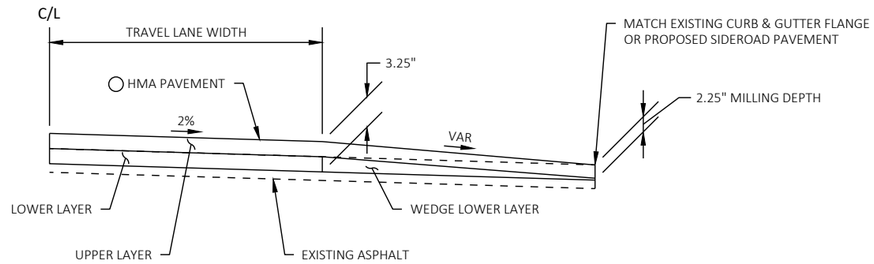


REMOVING ASPHALTIC SURFACE BUTT JOINTS DETAIL

SIDEROADS WITH PROFILE CHANGE



PLAN VIEW



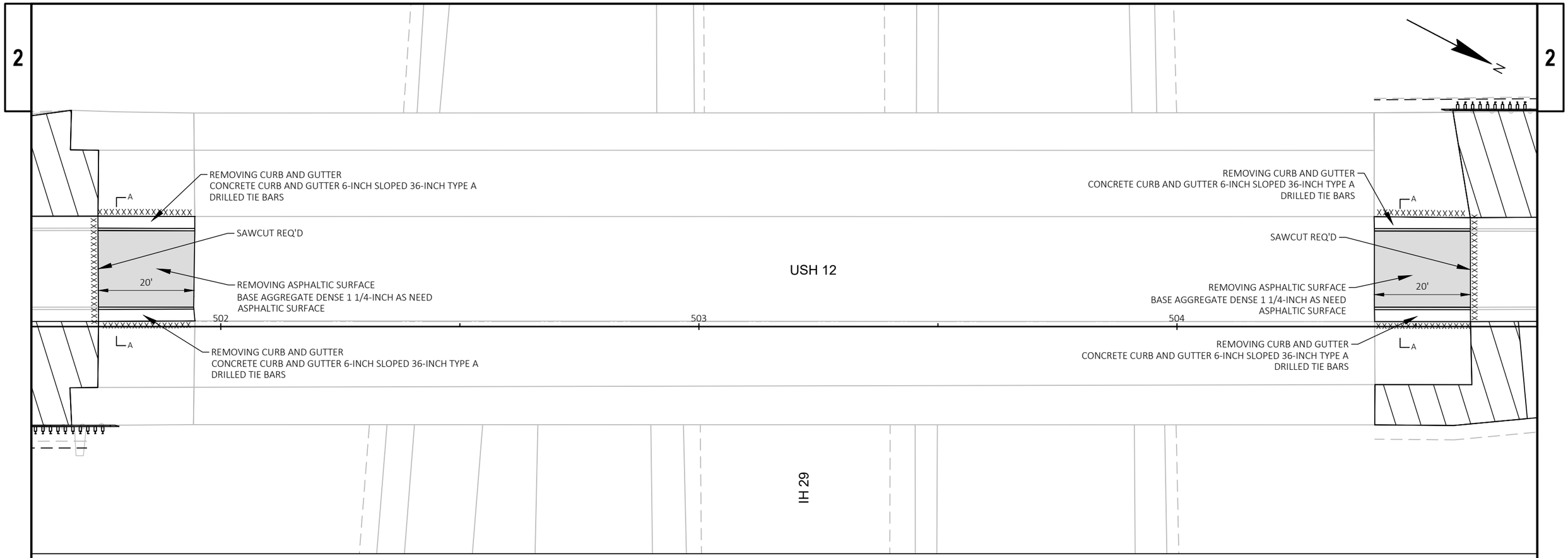
○ SEE TYPICAL SECTIONS FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS

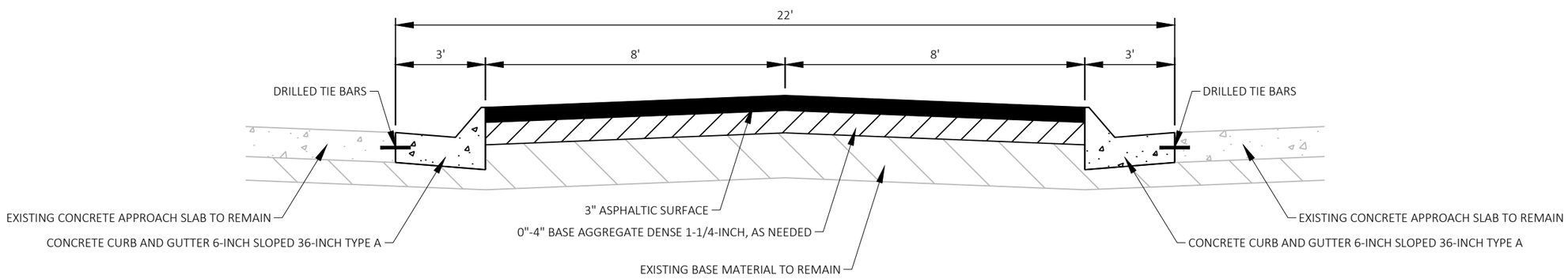
SECTION A-A

TYPICAL SIDE ROAD DETAIL

CONTROL POINTS / BENCHMARK DATA

POINT	NORTHING	EASTING	ELEVATION	DESCRITION
BM A	215292.061	213258.078	946.00	BURY BOLT ON HYDRANT IN THE NE QUAD OF RIVER ST/STH 40 INTERSECTION
BM B	214732.561	213273.567	951.68	BURY BOLT ON HYDRANT IN THE SE QUAD OF RAILROAD AVE/STH 40 INTERSECTION
BM C	214264.743	213271.578	949.48	BURY BOLT ON HYDRANT IN THE NE QUAD OF 3RD AVE/STH 40 INTERSECTION
BM D	213891.196	213276.622	949.86	BURY BOLT ON HYDRANT IN THE NE QUAD OF 4TH AVE/STH 40 INTERSECTION
BM E	213574.865	213281.749	951.08	BURY BOLT ON HYDRANT 50 FEET NORTH OF 5TH AVE ON THE EAST SIDE OF STH 40
BM F	216224.570	213575.514	940.68	BURY BOLT ON HYDRANT 50 FEET WEST OF ASH ST ON THE SOUTH SIDE OF STH 40
BM G	216229.170	213980.394	950.57	BURY BOLT ON HYDRANT 50 FEET WEST OF BIRCH ST ON THE SOUTH SIDE OF STH 40
BM H	216226.696	214397.908	948.85	BURY BOLT ON HYDRANT IN THE SW QUAD OF IVERSON RD/STH 40 INTERSECTION
BM I	216217.716	215093.886	943.62	BURY BOLT ON HYDRANT IN THE SW QUAD OF AMBLE ST/STH 40 INTERSECTION
BM J	216197.757	216137.824	936.27	BURY BOLT ON HYDRANT IN THE SW QUAD OF SLETTEN ST/STH 40 INTERSECTION
BM K	216250.066	217057.208	934.18	BURY BOLT ON HYDRANT IN THE NW QUAD OF CTH M/STH 40 INTERSECTION
BM L	215430.737	213260.250	943.22	CONCRETE STEP ON 50 FEET SOUTH OF 1ST AVE ON THE EAST SIDE OF STH 40
CP 1	212738.960	213230.484	961.71	MAG NAIL IN CONCRETE SIDEWALK 50 FEET NORTH OF BREMER AVE ON WEST SIDE OF STH 40
CP 2	213466.581	213282.078	950.24	MAG NAIL IN CONCRETE CURB IN SE QUAD OF 5TH AVE/STH 40 INTERSECTION
CP 3	214244.216	213208.717	947.81	MAG NAIL IN CONCRETE SIDEWALK IN NW QUAD OF 3RD AVE/STH 40 INTERSECTION
CP 4	214746.280	213273.418	949.39	MAG NAIL IN ASPHALT PARKING LOT IN THE SE QUAD OF RAILROAD AVE/STH 40 INTERSECTION
CP 5	215593.272	213207.441	939.48	MAG NAIL IN CONCRETE SIDEWALK 100 FEET NORTH OF 1ST AVE ON WEST SIDE OF STH 40
CP 6	216248.606	213472.440	936.75	MAG NAIL IN CONCRETE SIDEWALK 50 FEET EAST OF STH 170 ON NORTH SIDE OF STH 40
CP 7	216278.271	214109.892	949.92	MAG NAIL IN CONCRETE CURB 50 FEET EAST OF BIRCH ST ON NORTH SIDE OF STH 40
CP 8	216221.009	215140.533	940.89	MAG NAIL IN COCNRETE CURB ON SOUTH SIDE OF AMBLE ST/STH 40 INTERSECTION
CP 9	216244.631	216227.194	935.03	MAG NAIL IN CONCRETE CURB IN NE QUAD OF SLETTEN ST/STH 40 INTERSECTION
CP 10	216190.428	217016.927	934.46	MAG NAIL IN COCNRETE CURB IN SW QUAD OF CTH M/STH 40 INTERSECTION



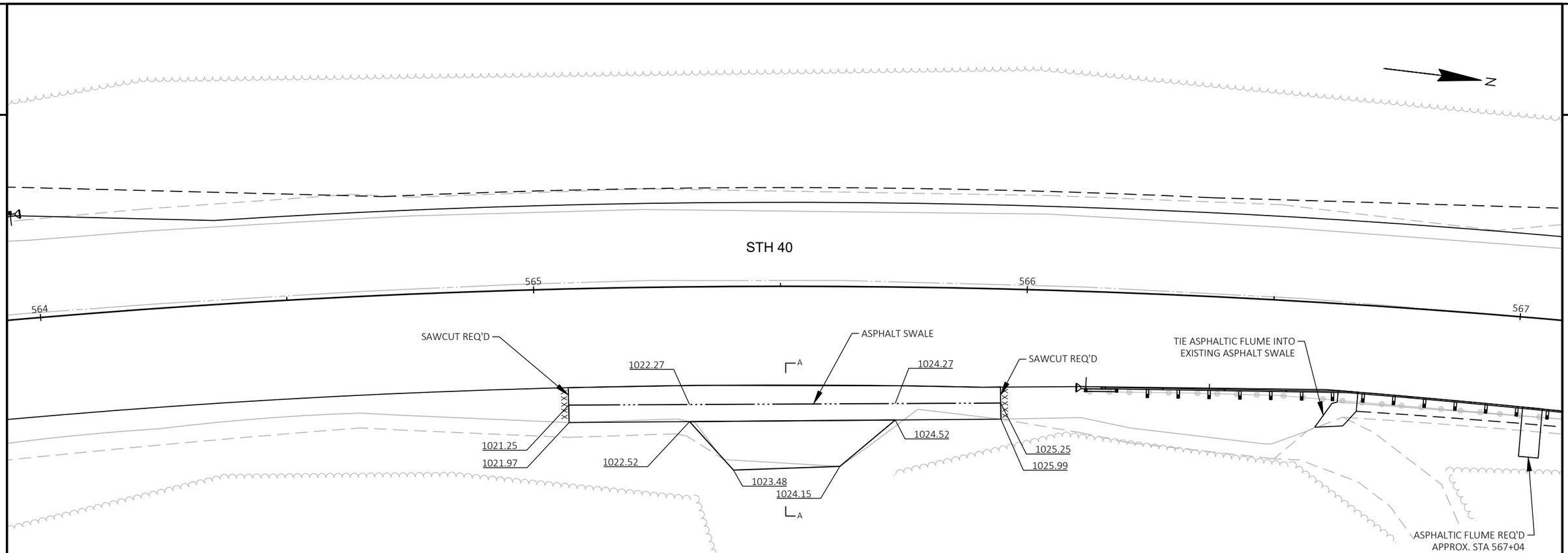


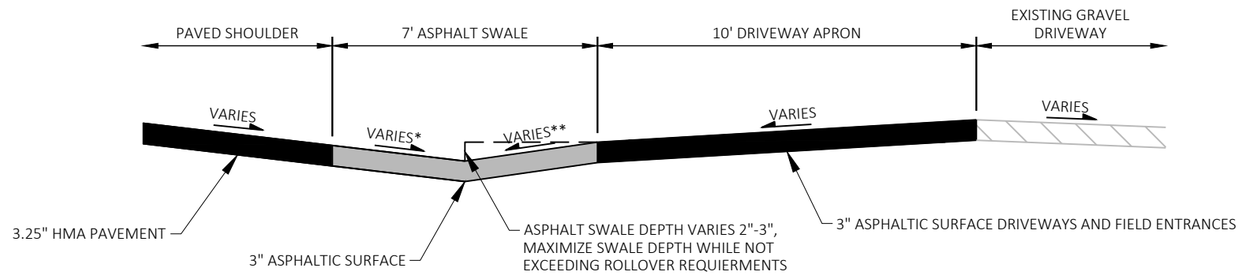
SECTION A-A

PROJECT NO: 7600-00-72	HWY: USH 12	COUNTY: DUNN	CONSTRUCTION DETAILS: ASPHALT MEDIAN REPLACEMENT	SHEET 21	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021005_CD.DWG
LAYOUT NAME - 01
PLOT DATE : 7/31/2025 3:43 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 44

2





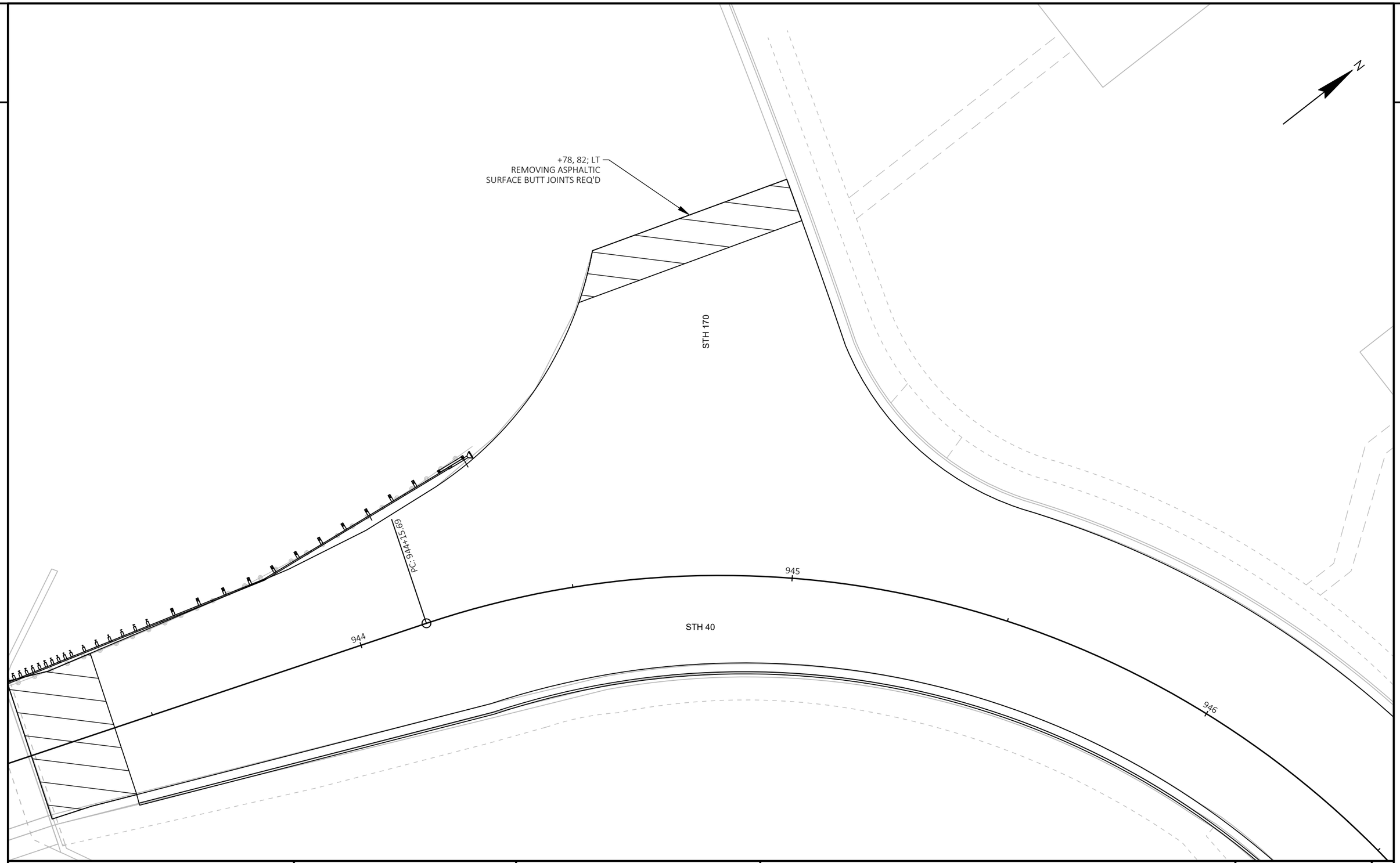
SECTION A-A

NOTES:
- * ASPHALT SWALE CROSS SLOPE TO MATCH ADJACENT ASPHALT SHOULDER SLOPE.
- ** ASPHALT SWALE CROSS SLOPE SHALL NOT EXCEED 15% ROLLOVER IN DRIVEWAY SECTIONS.

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS: ASPHALTIC FLUME	SHEET 22	E

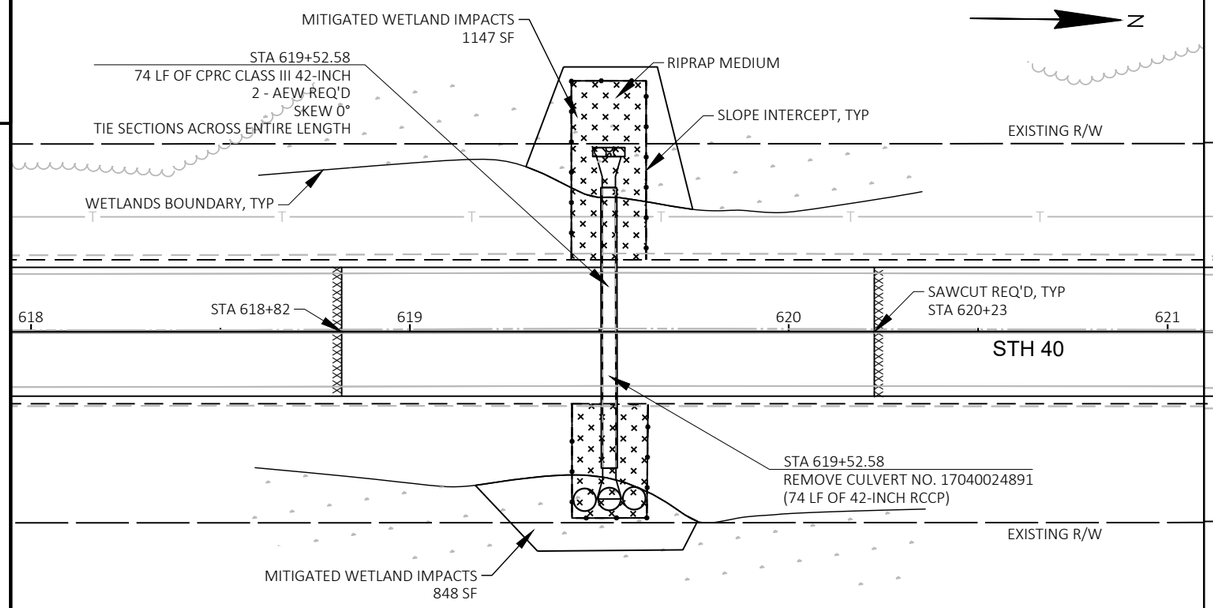
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021005_CD.DWG
LAYOUT NAME - 02
PLOT DATE : 7/31/2025 3:43 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 44

2

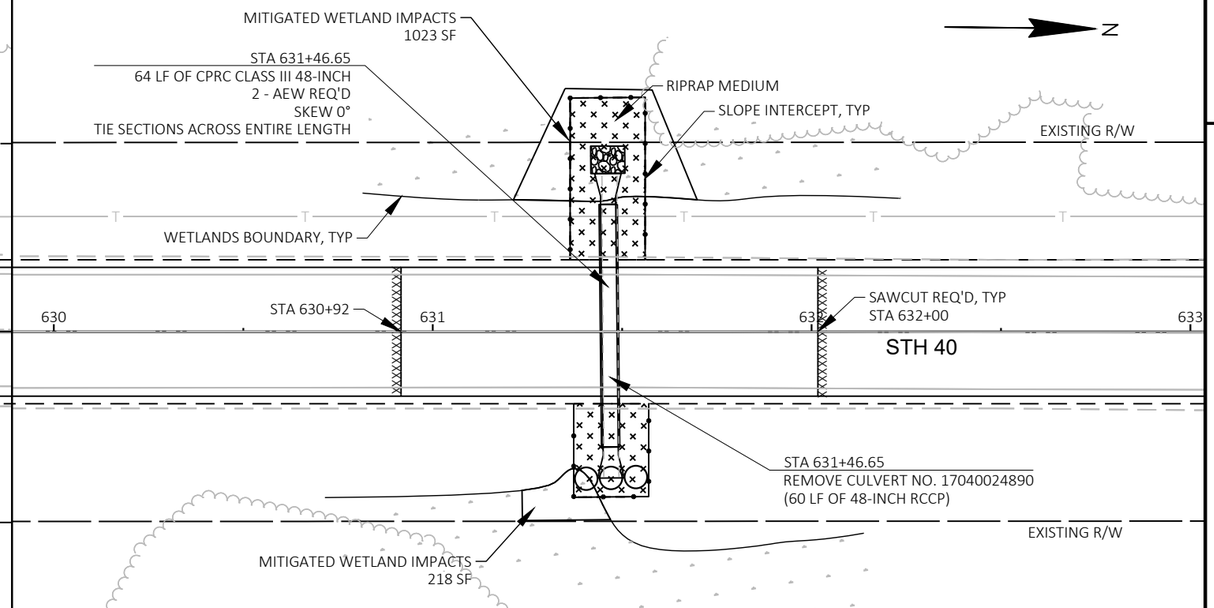


PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS: STH 170 LIMITS	SHEET 23	E

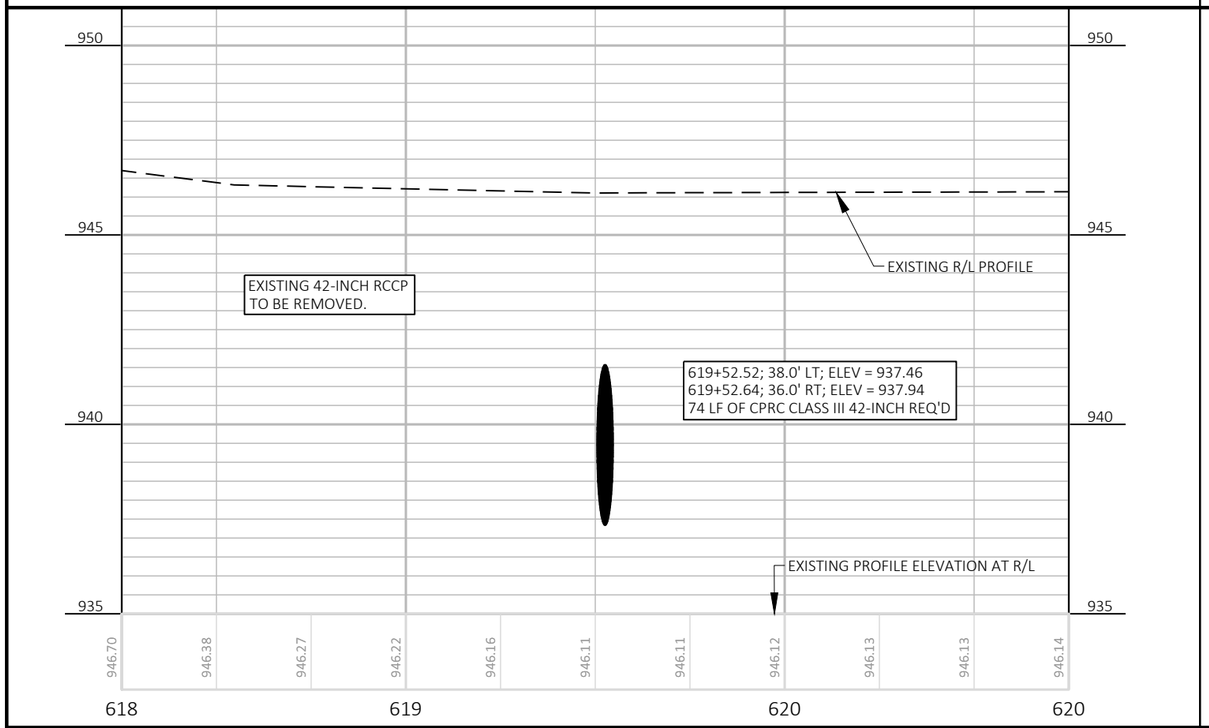
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021005_CD.DWG
LAYOUT NAME - 03
PLOT DATE : 7/31/2025 3:43 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 44

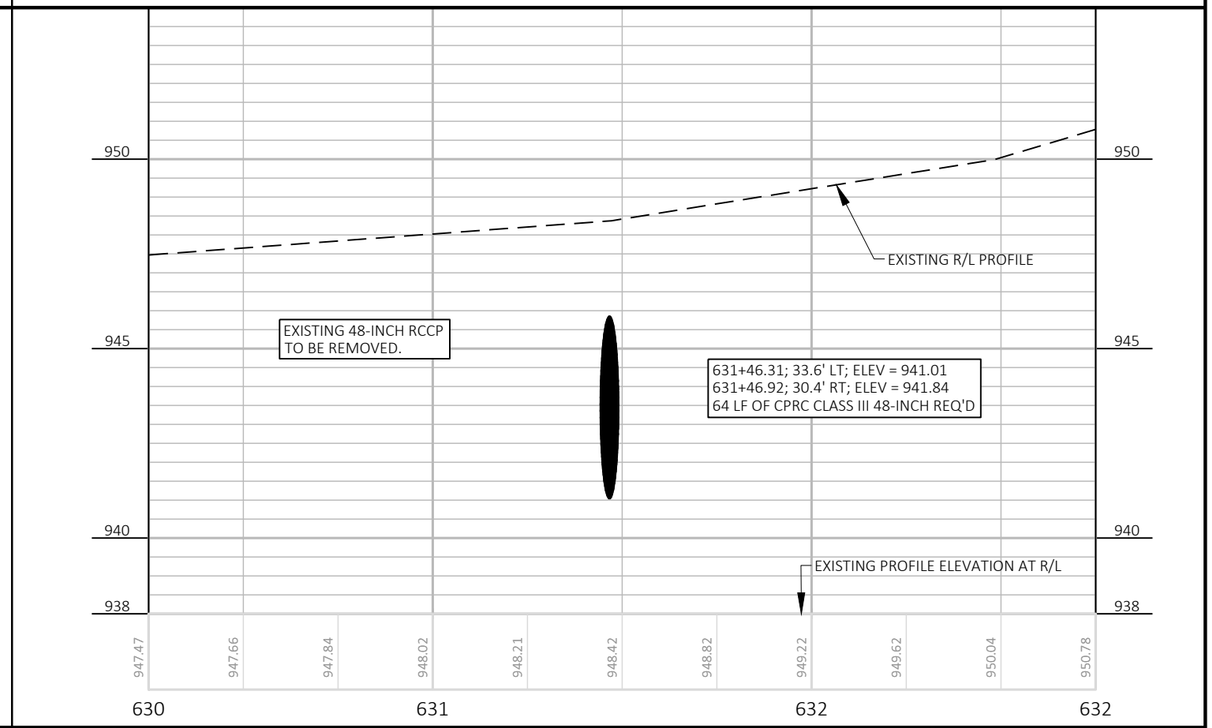


NOTES:
WETLAND FILL IMPACTS ARE PERMITTED. NO ADDITIONAL GRADING TO OCCUR WITHOUT ENGINEER IN FIELD APPROVAL.



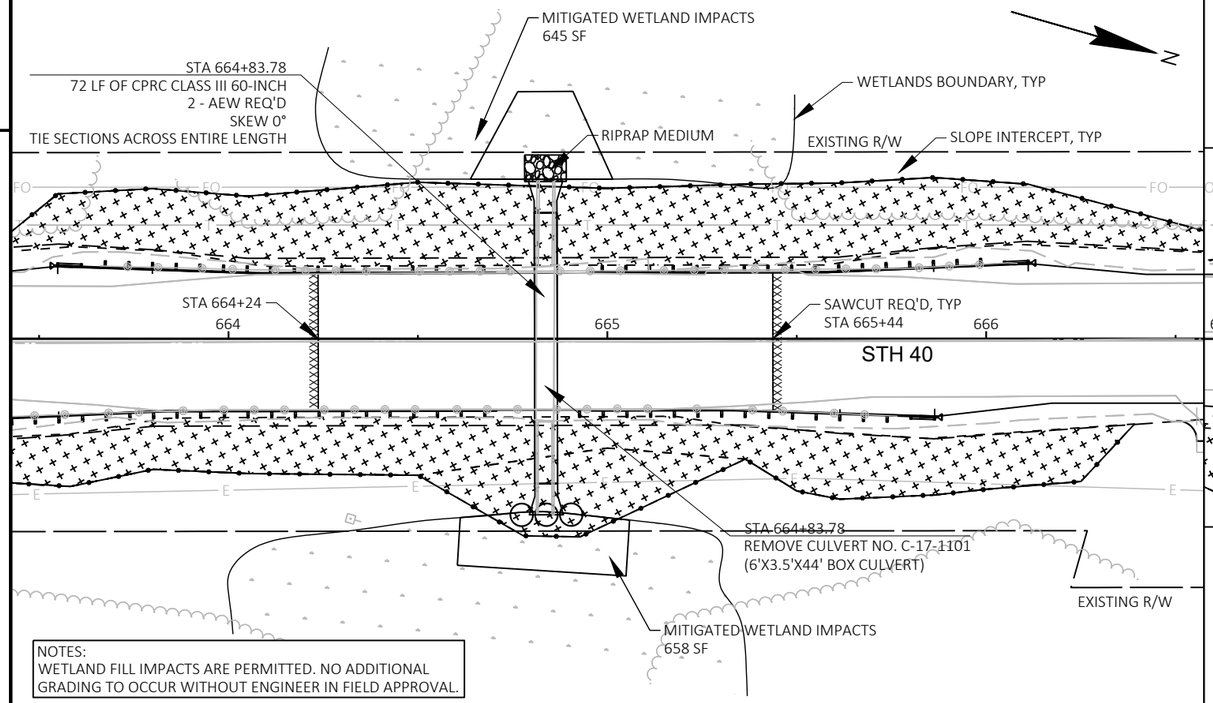
NOTES:
WETLAND FILL IMPACTS ARE PERMITTED. NO ADDITIONAL GRADING TO OCCUR WITHOUT ENGINEER IN FIELD APPROVAL.

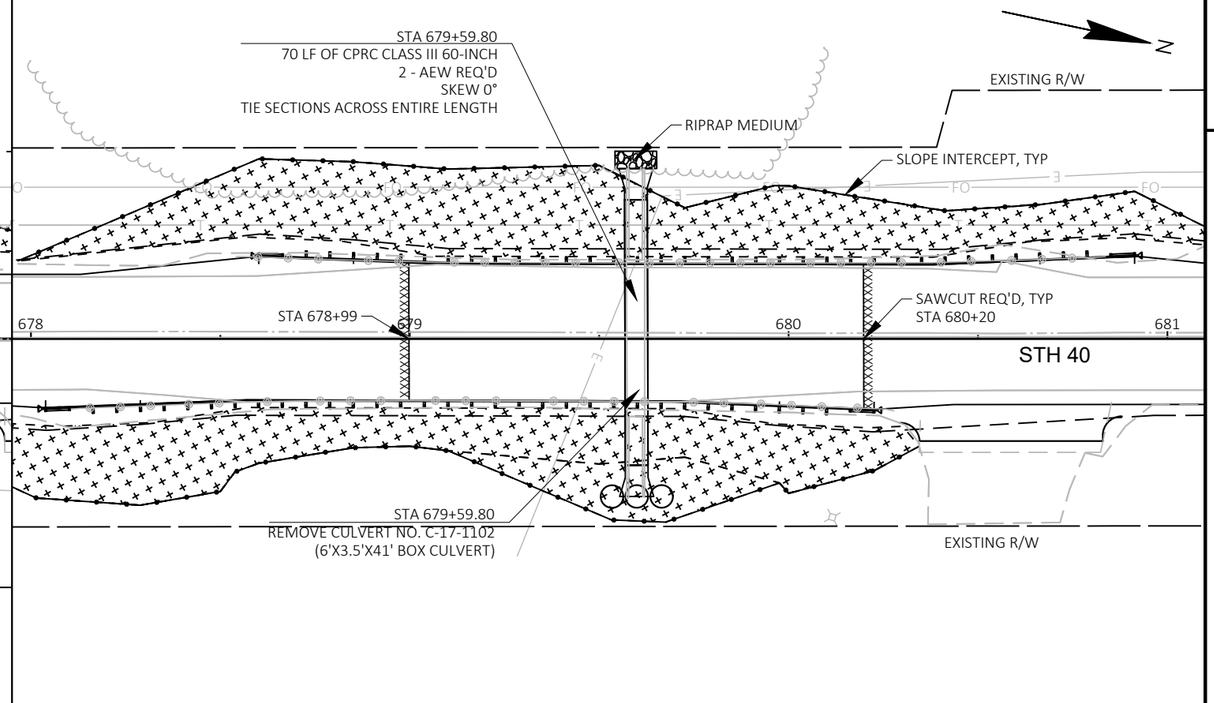


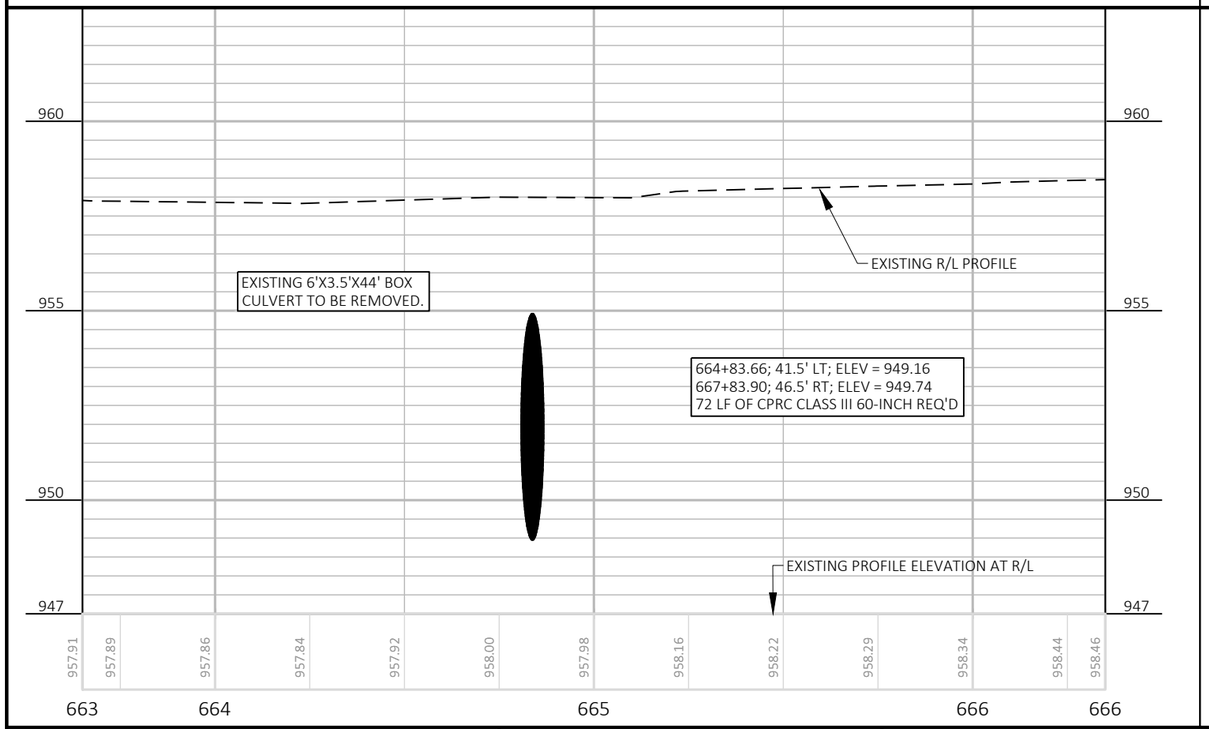


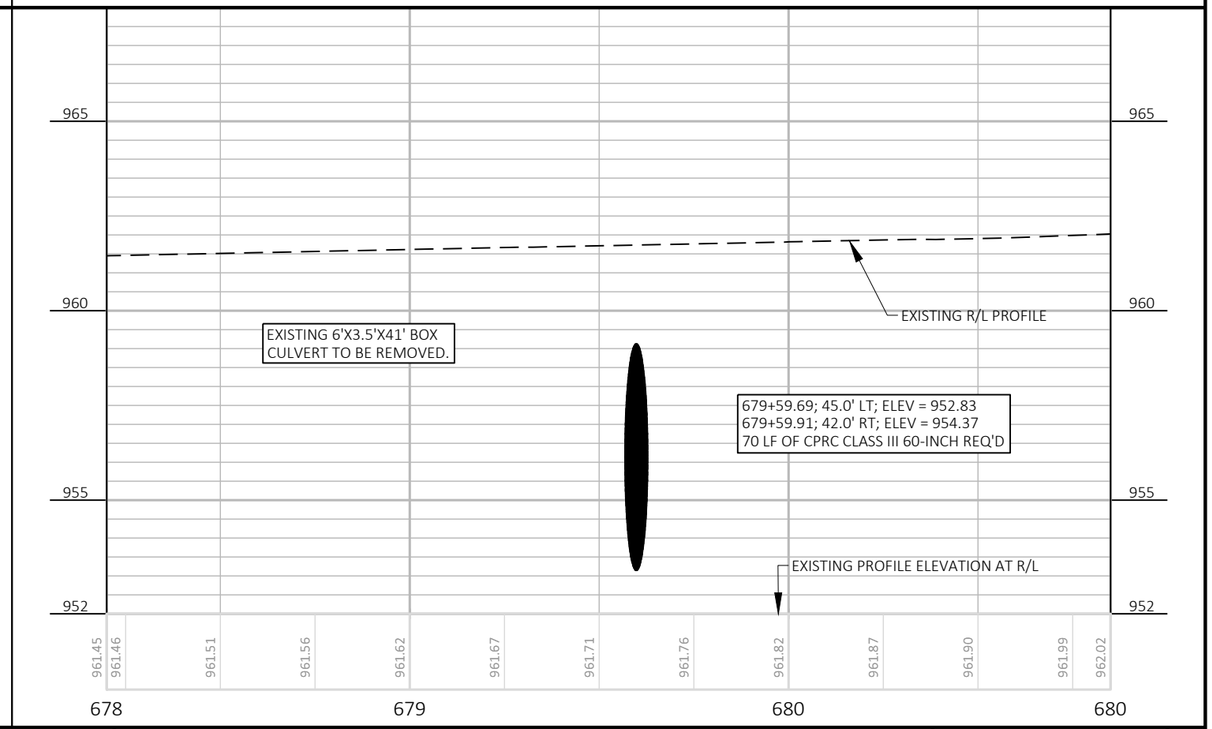
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 24	E

2



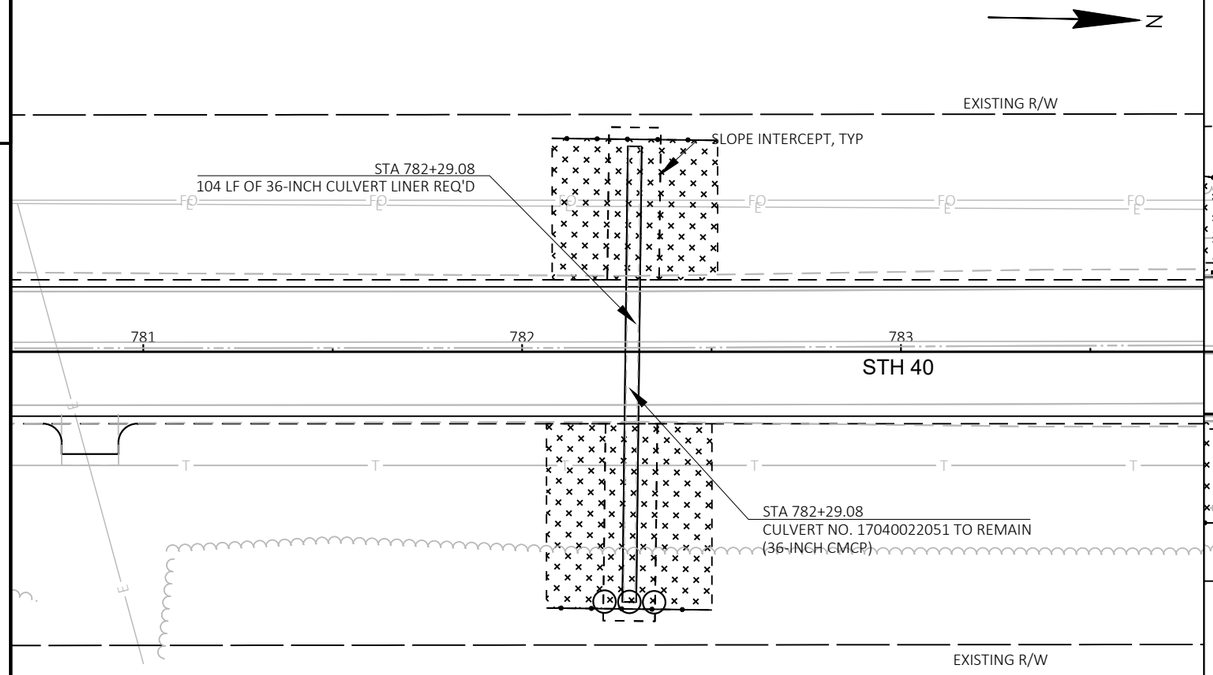


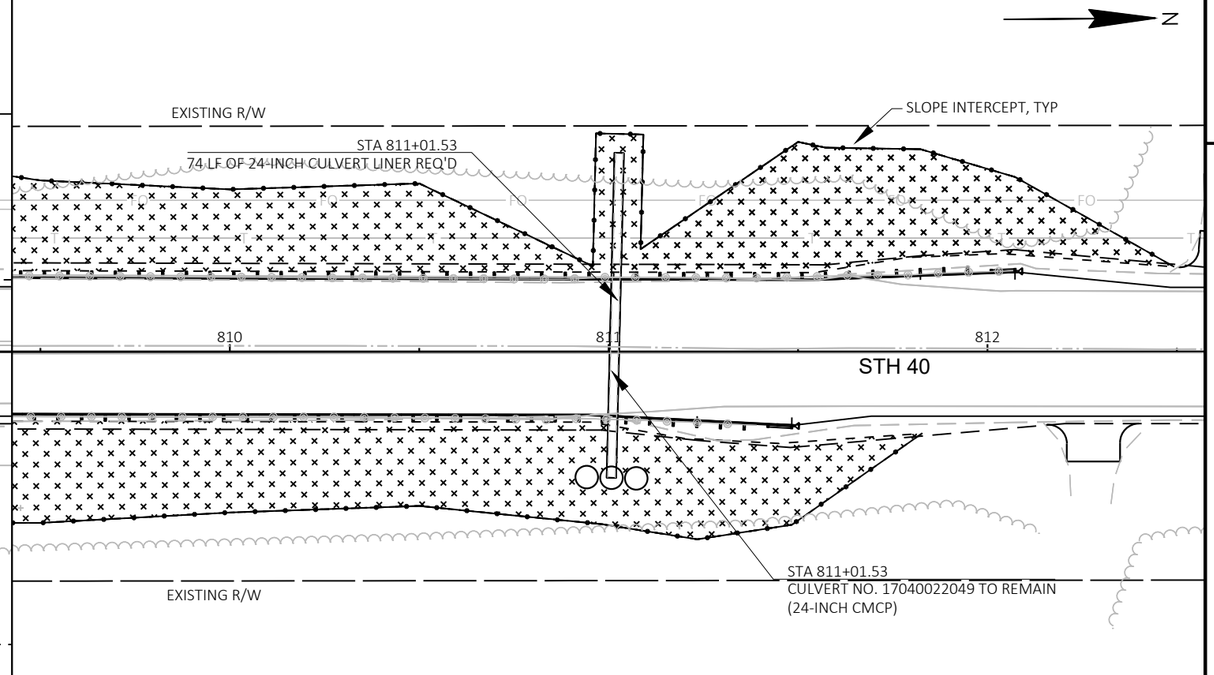


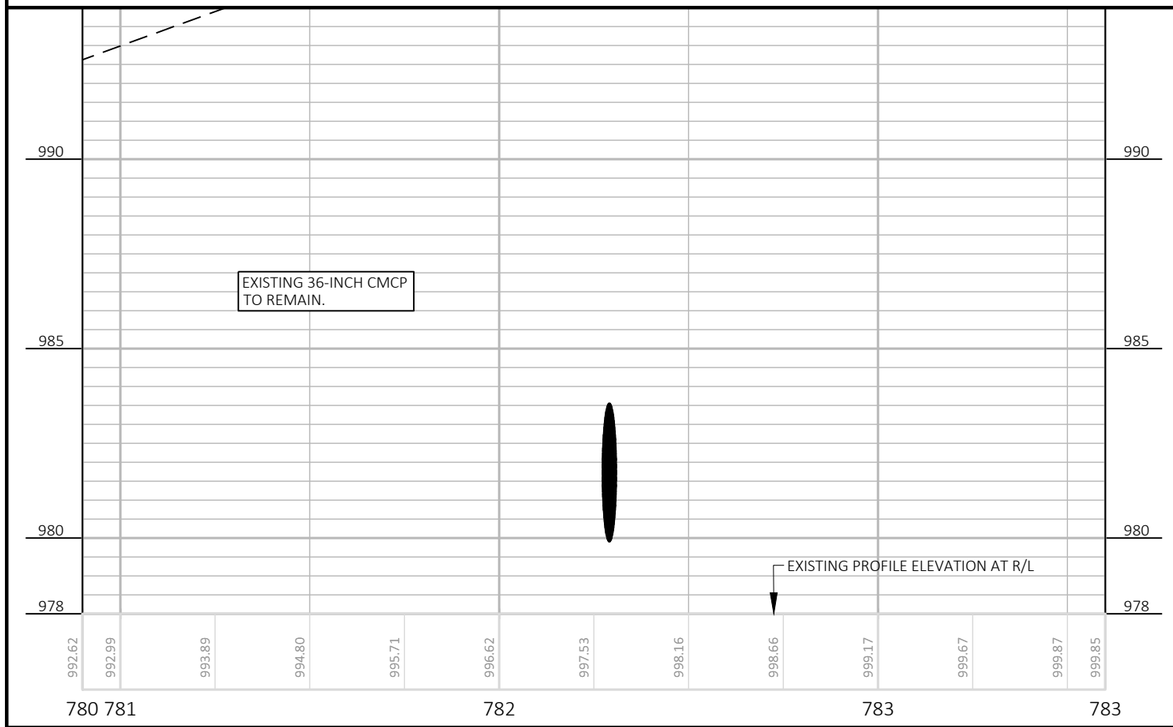


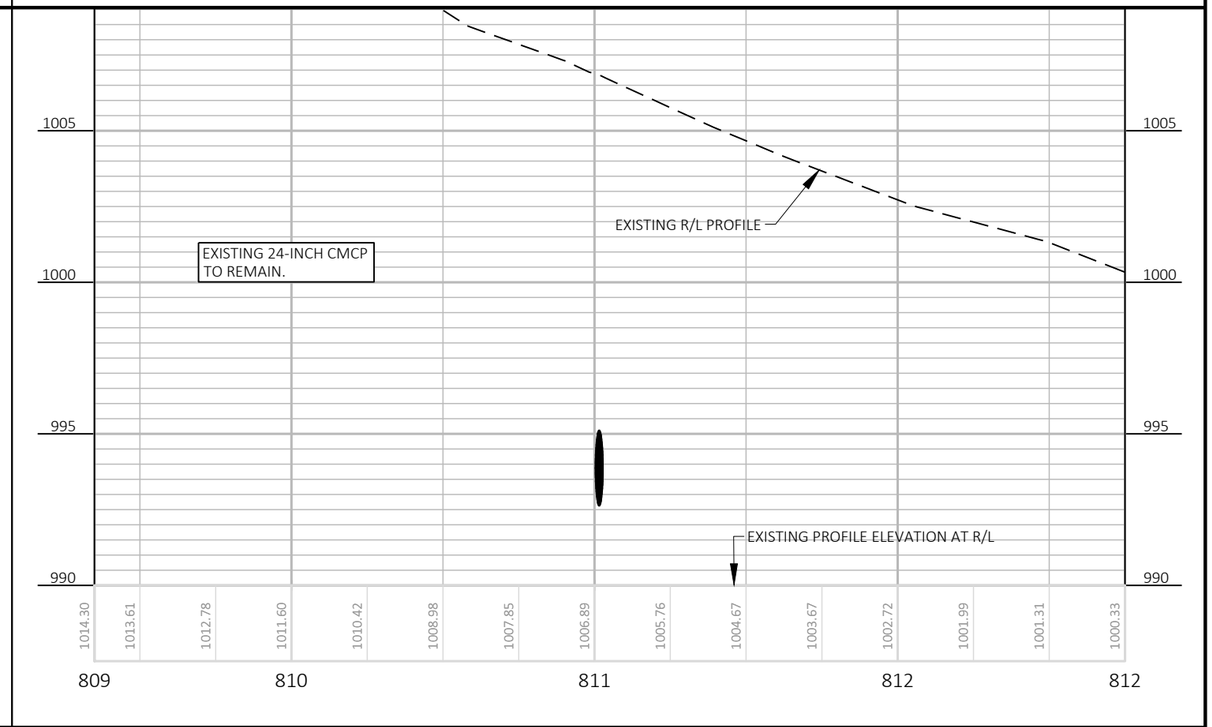
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 25	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 32
PLOT DATE : 7/31/2025 3:47 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44









PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 26	E

2

N

EXISTING RR R/W

EXISTING RR R/W

PROPOSED RAILROAD BUNGALOW/GENERATOR
FF TO MATCH TOP OF RAIL
WORK BY RAILROAD

20'

DRAINAGE FLOW DIRECTION, TYP

REMOVE EXISTING RAILROAD BUNGALOW
WORK BY RAILROAD

REMOVE EXISTING RAILROAD SIGNAL
WORK BY RAILROAD

PROPOSED RAILROAD SIGNAL MAST WITH GATE
PROPOSED GATE LENGTH = 25'
WORK BY RAILROAD

5' SIDEWALK, TYP

CL RR

CL RR

3'

EXISTING R/W

W RAILROAD AVE

8'

+67.3, 20.5' LT
ELEV = 949.61

6' CURB HEAD TAPER, TYP

+04.5, 20.2' LT
ELEV = 950.30

8.5'

8.5'

4.25'

+69.9, 20.7' LT
ELEV = 950.15

+59.0, 20.7' LT
ELEV = 950.25

+42.8, 19.5' LT
ELEV = 950.70

+49.0, 19.5' LT
ELEV = 950.50

928

929

17'

87°

17'

10'

930

STH 40

EXISTING - 73'

PROPOSED - 64'

+00.6, 17.6' RT
ELEV = 950.40

+06.8, 17.6' RT
ELEV = 950.50

+90.6, 19.5' RT
ELEV = 950.07

30" C&G, TYP

3'

4.25'

SAWCUT AND REMOVE FULL DEPTH REQUIRED, TYP

+45.1, 19.1' RT
ELEV = 950.30

+64.8, 19.0' RT
ELEV = 950.05

18'

+81.9, 19.6' RT
ELEV = 950.00

EXISTING R/W

E RAILROAD AVE

PROPOSED RAILROAD SIGNAL MAST WITH GATE
PROPOSED GATE LENGTH = 23'
WORK BY RAILROAD

REMOVE EXISTING RAILROAD SIGNAL
WORK BY RAILROAD

PROPOSED RAILROAD CROSSING
16 PANELS LONG
WORK BY RAILROAD

PROPOSED RAILROAD CROSSING
16 PANELS LONG
WORK BY RAILROAD

EXISTING RR R/W

EXISTING RR R/W

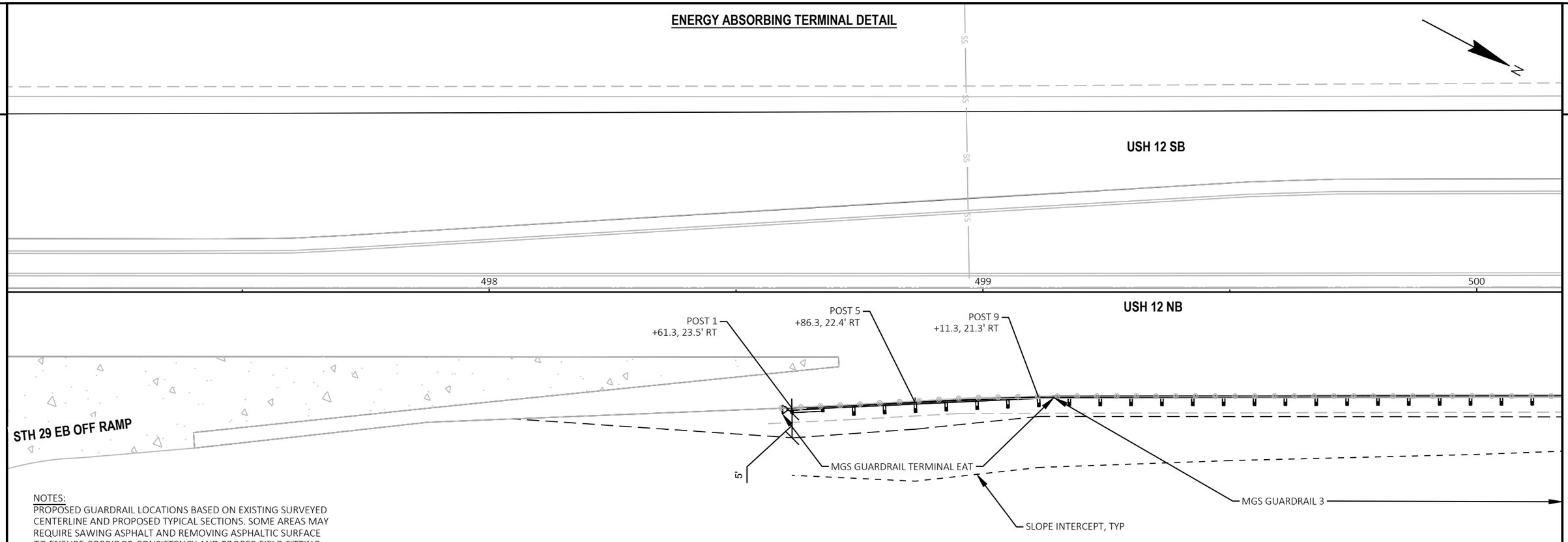
PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	RAILROAD CROSSING DETAILS - COLFAX	SHEET 27	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\RR\MAINLINE CROSSING DETAILS.DWG
LAYOUT NAME - 01

PLOT DATE : 10/27/2025 1:58 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

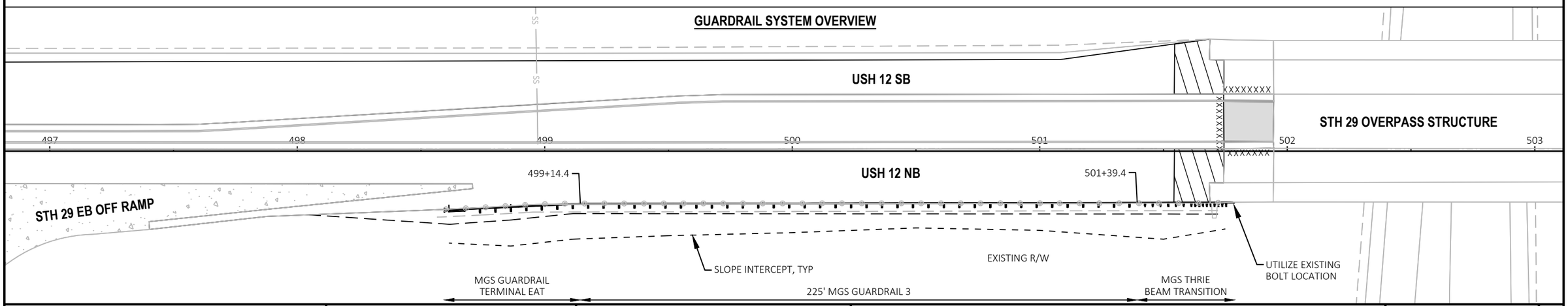
ENERGY ABSORBING TERMINAL DETAIL



NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

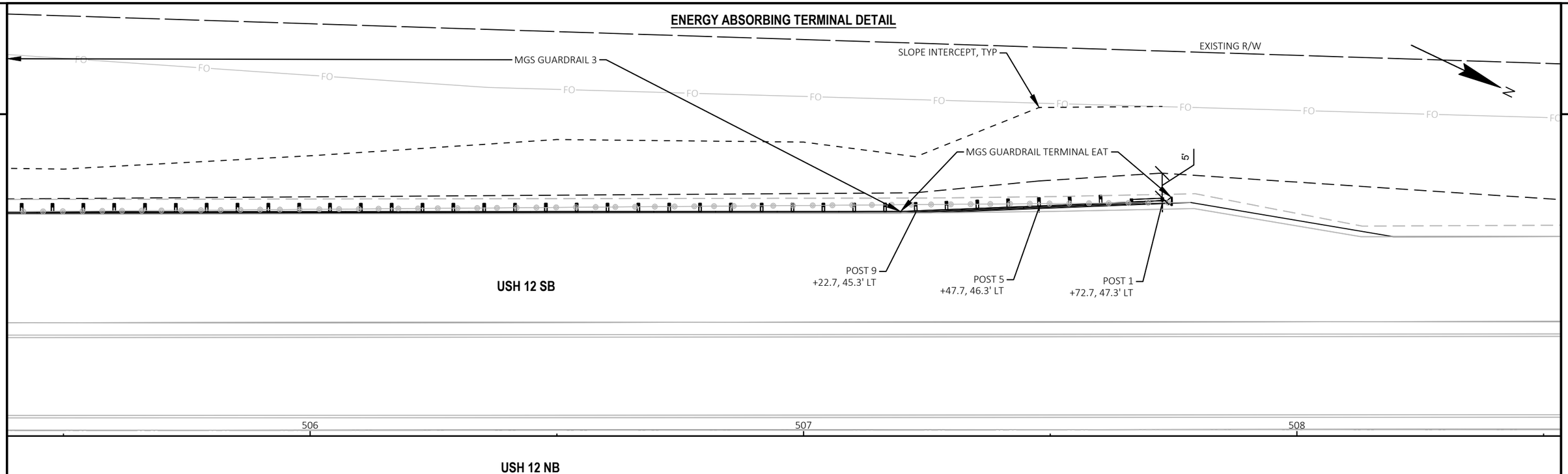
FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 28	E

ENERGY ABSORBING TERMINAL DETAIL



NOTES:
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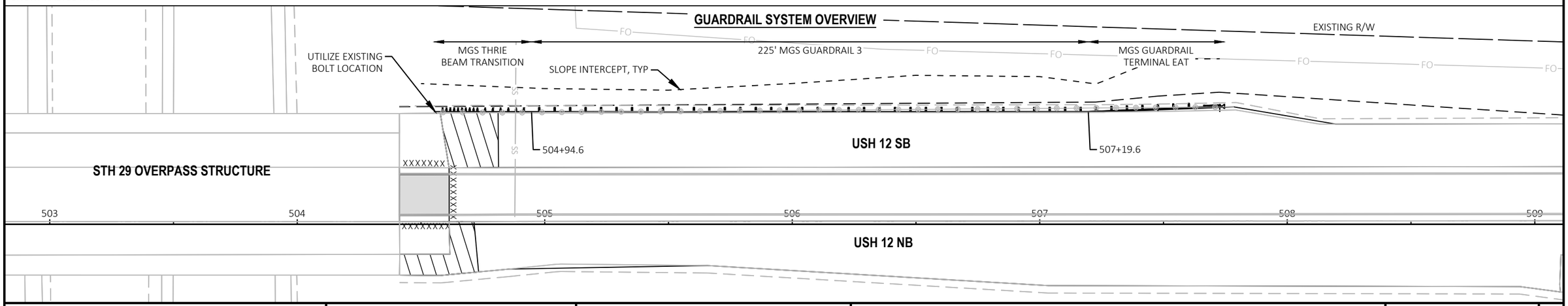
FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

GUARDRAIL SYSTEM OVERVIEW



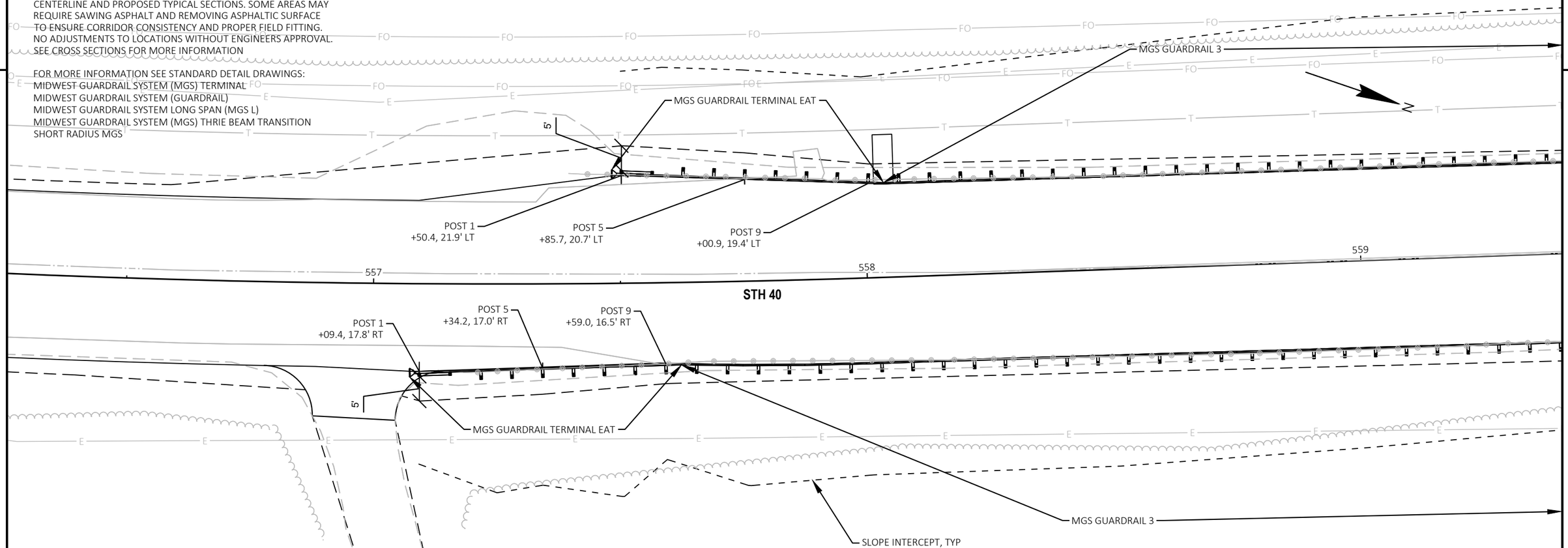
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 29	E

2

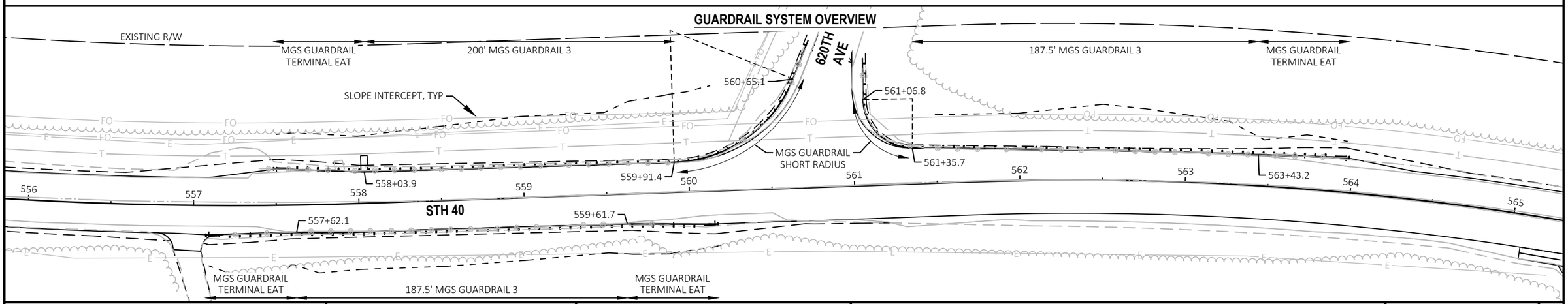
ENERGY ABSORBING TERMINAL DETAIL

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS



GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 30	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 3
PLOT DATE : 7/31/2025 3:53 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

R=80
+91.8
98.1' LT

MGS GUARDRAIL SHORT RADIUS TERMINAL

+75.11
89.1' LT

93.75 LF OF MGS GUARDRAIL SHORT RADIUS
15 CRT POSTS REQUIRED @ 6'3" SPACING

+65.1
66.1' LT

620TH AVE

MGS GUARDRAIL 3

SHORT RADIUS TERMINAL DETAIL

MGS GUARDRAIL SHORT RADIUS TERMINAL

+07.25
77.2' LT

50 LF OF MGS GUARDRAIL SHORT RADIUS
8 CRT POSTS REQUIRED @ 6'3" SPACING

R=32'
+36.8
53.7' LT

+06.85
52.2' LT

SLOPE INTERCEPT, TYP

MGS GUARDRAIL 3

560 561 562

STH 40

POST 9
+64.8, 18.0' RT

POST 5
+89.8, 19.0' RT

POST 1
+14.8, 20.0' RT

MGS GUARDRAIL TERMINAL EAT

5'

MGS GUARDRAIL 3

GUARDRAIL SYSTEM OVERVIEW

EXISTING R/W

MGS GUARDRAIL
TERMINAL EAT

200' MGS GUARDRAIL 3

620TH AVE

187.5' MGS GUARDRAIL 3

MGS GUARDRAIL
TERMINAL EAT

560+65.1

561+06.8

SLOPE INTERCEPT, TYP

MGS GUARDRAIL
SHORT RADIUS

561+35.7

558+03.9

559+91.4

563+43.2

556 557 558 559 560 561 562 563 564 565

STH 40

557+62.1

559+61.7

MGS GUARDRAIL
TERMINAL EAT

187.5' MGS GUARDRAIL 3

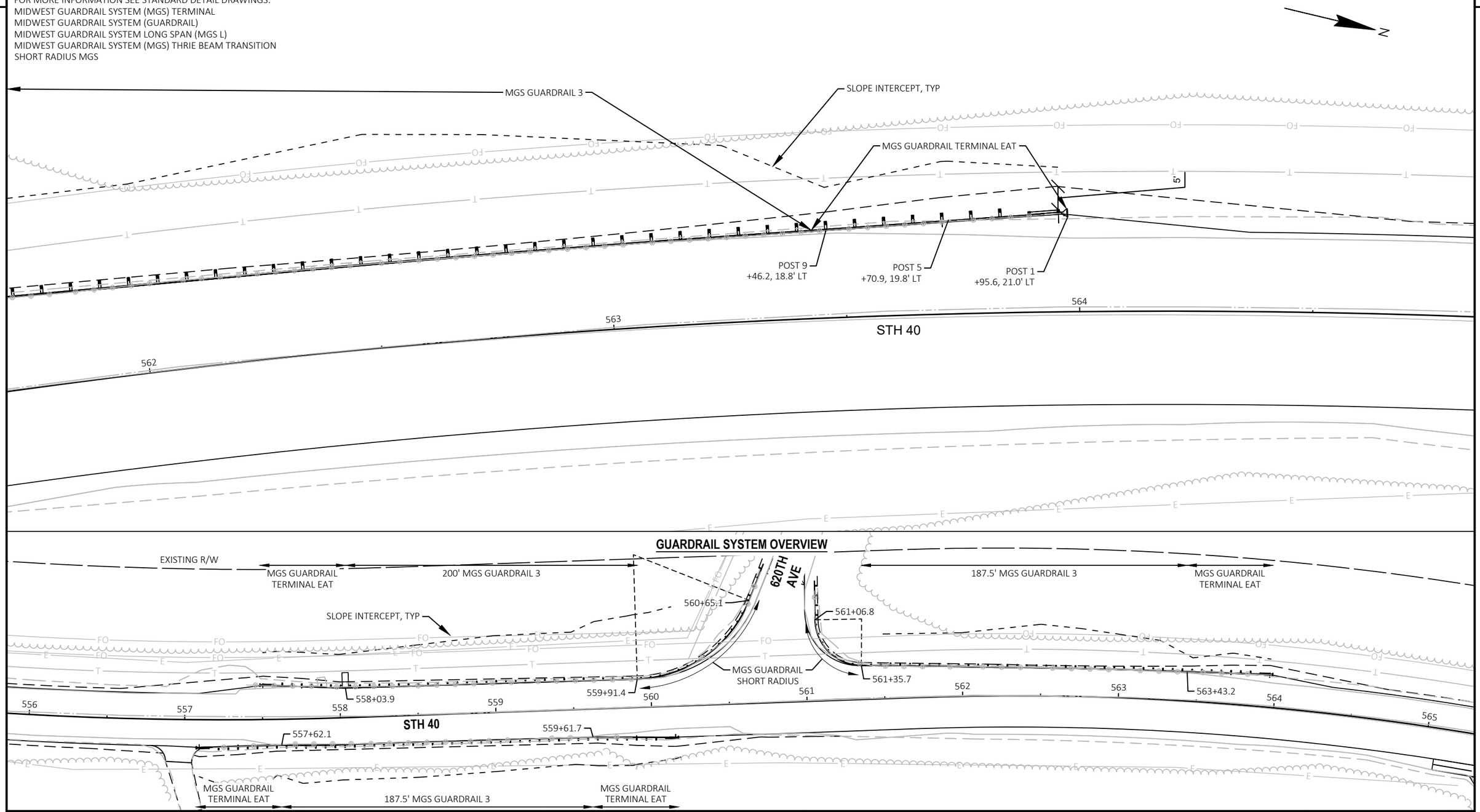
MGS GUARDRAIL
TERMINAL EAT

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 31	E

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL



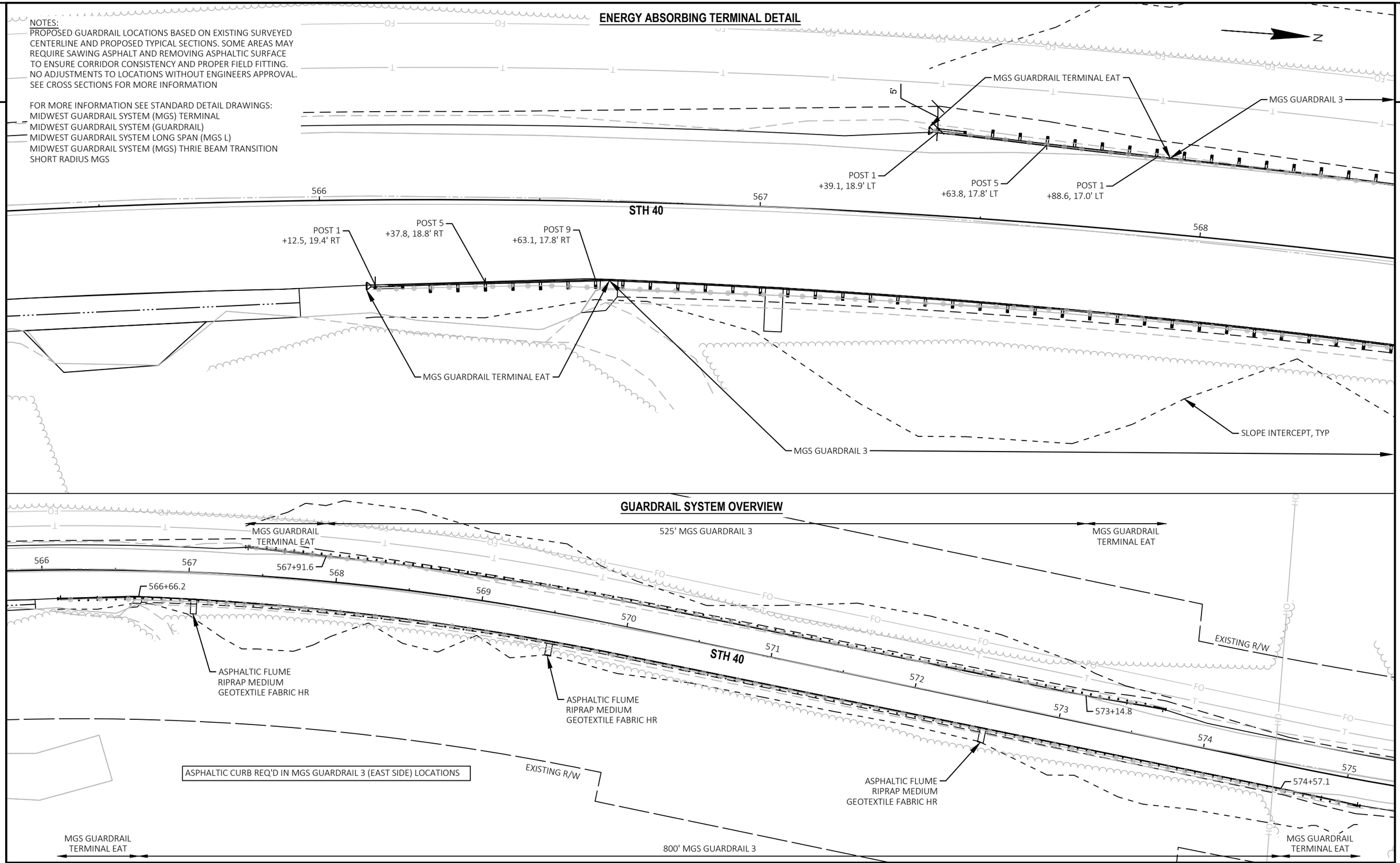
GUARDRAIL SYSTEM OVERVIEW

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 32	E

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL

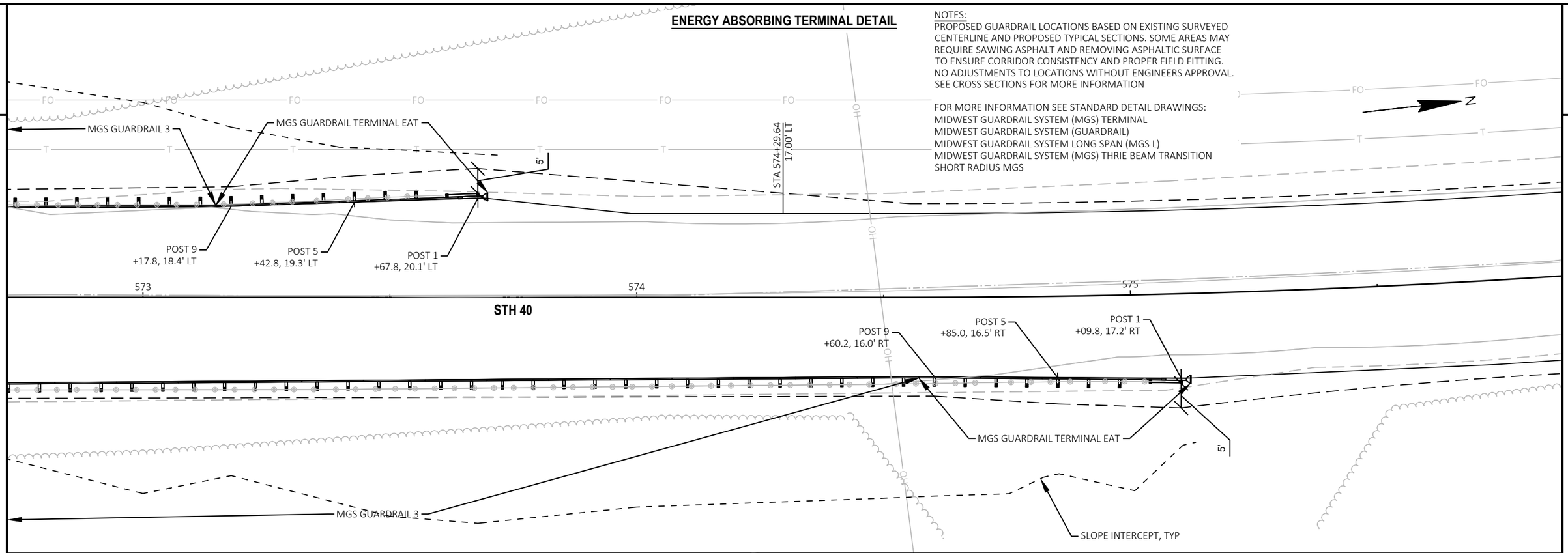


GUARDRAIL SYSTEM OVERVIEW

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 33	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 6
PLOT DATE : 7/31/2025 3:55 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

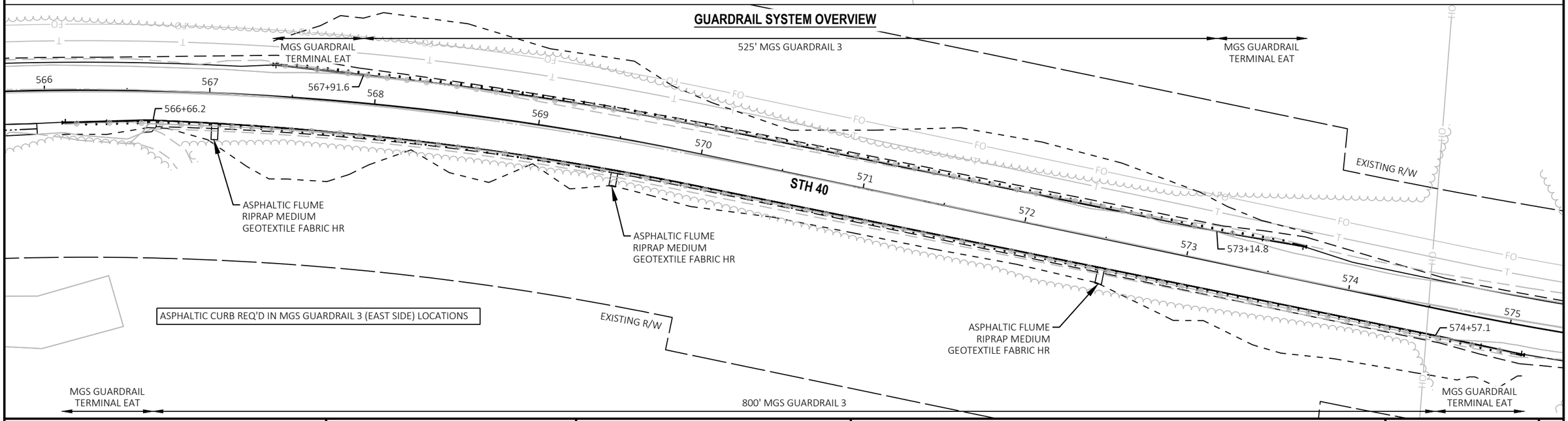
ENERGY ABSORBING TERMINAL DETAIL



NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 34	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 7
PLOT DATE : 7/31/2025 3:55 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

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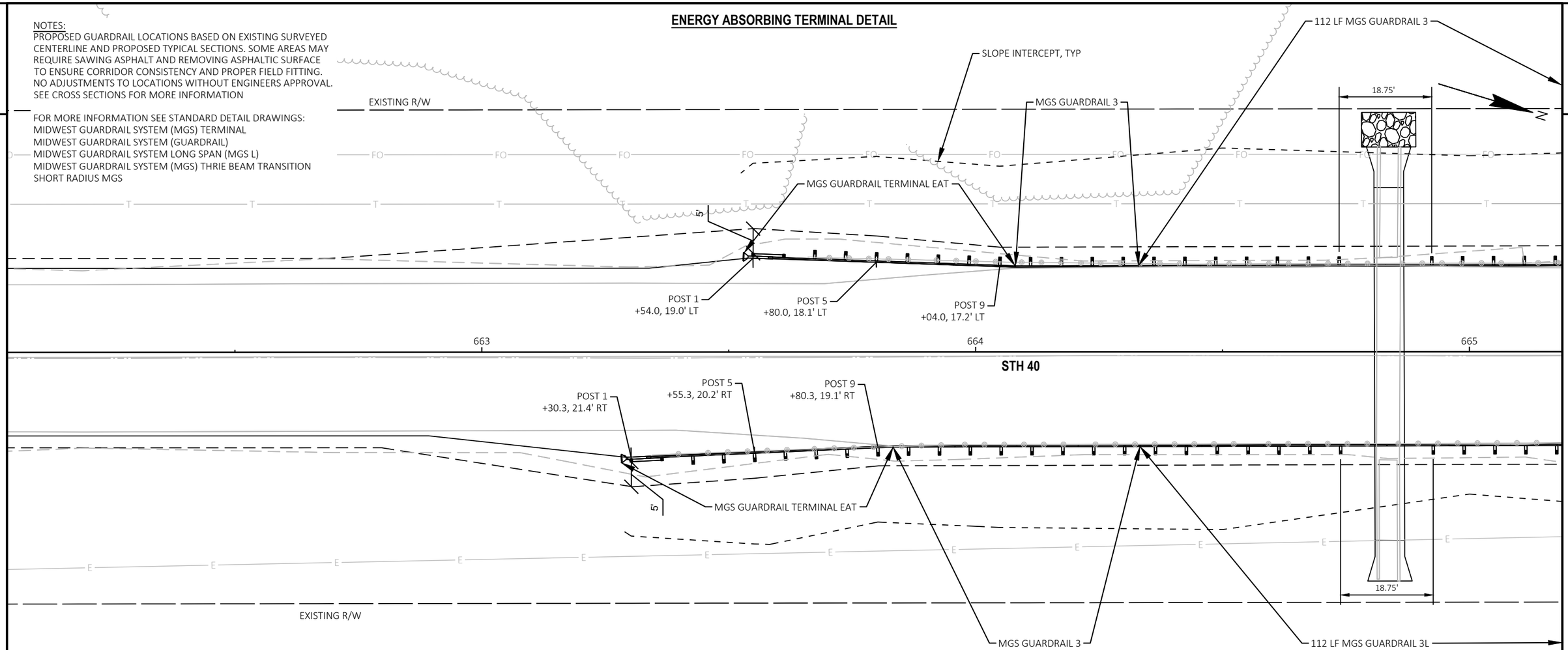
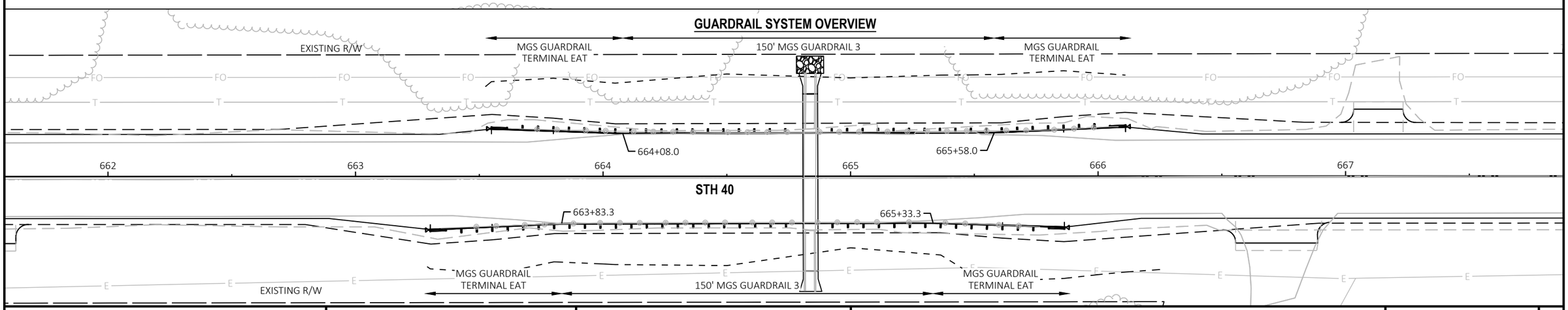
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL



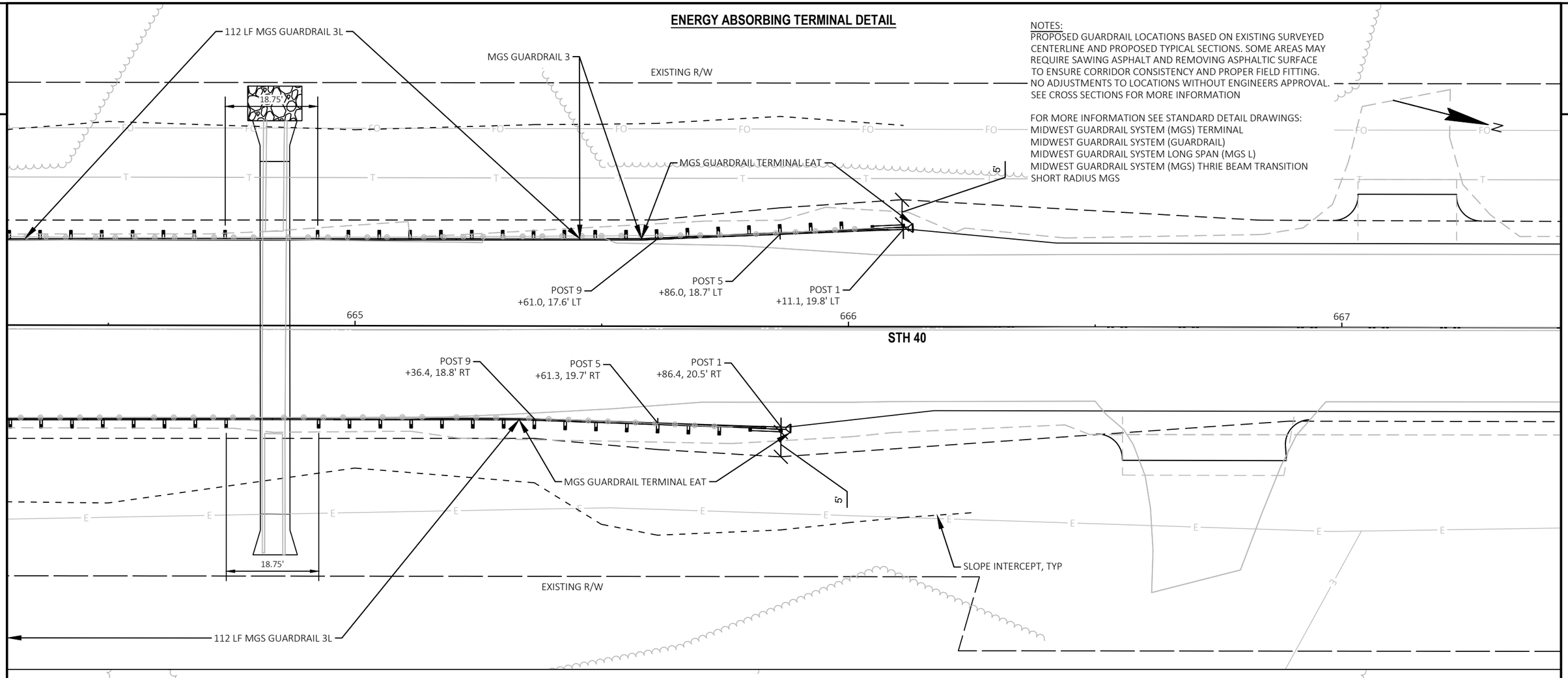
GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 35	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 8
PLOT DATE : 7/31/2025 3:56 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

ENERGY ABSORBING TERMINAL DETAIL



NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

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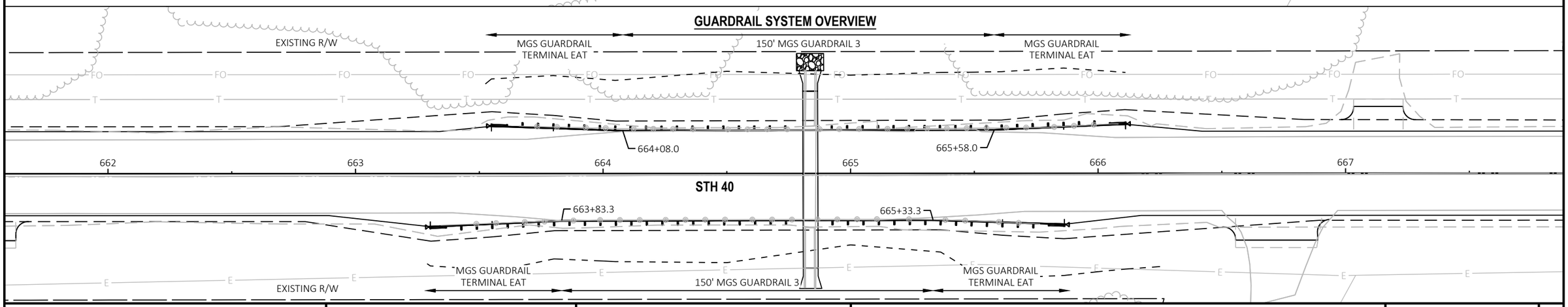
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 36	E

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

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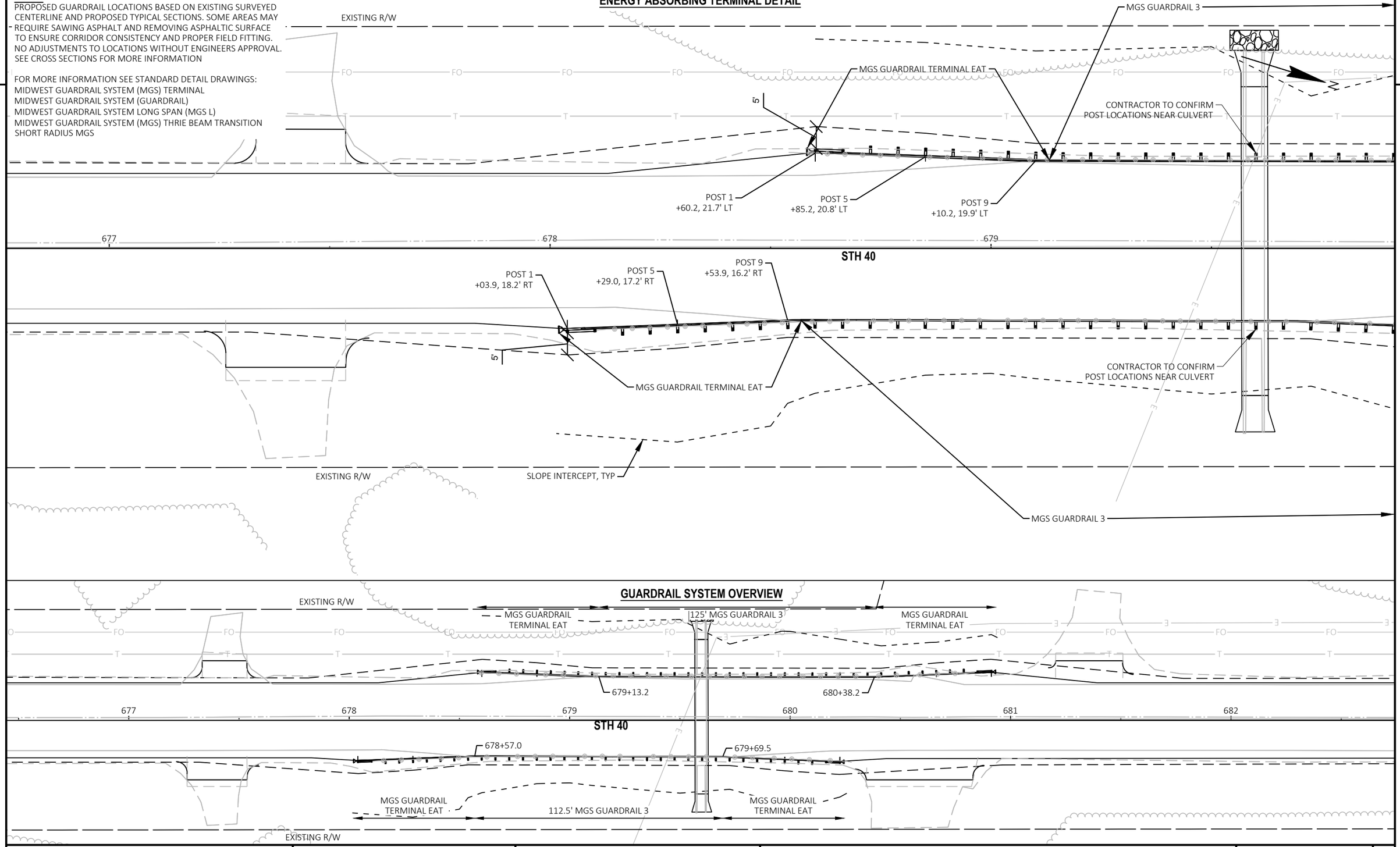
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL

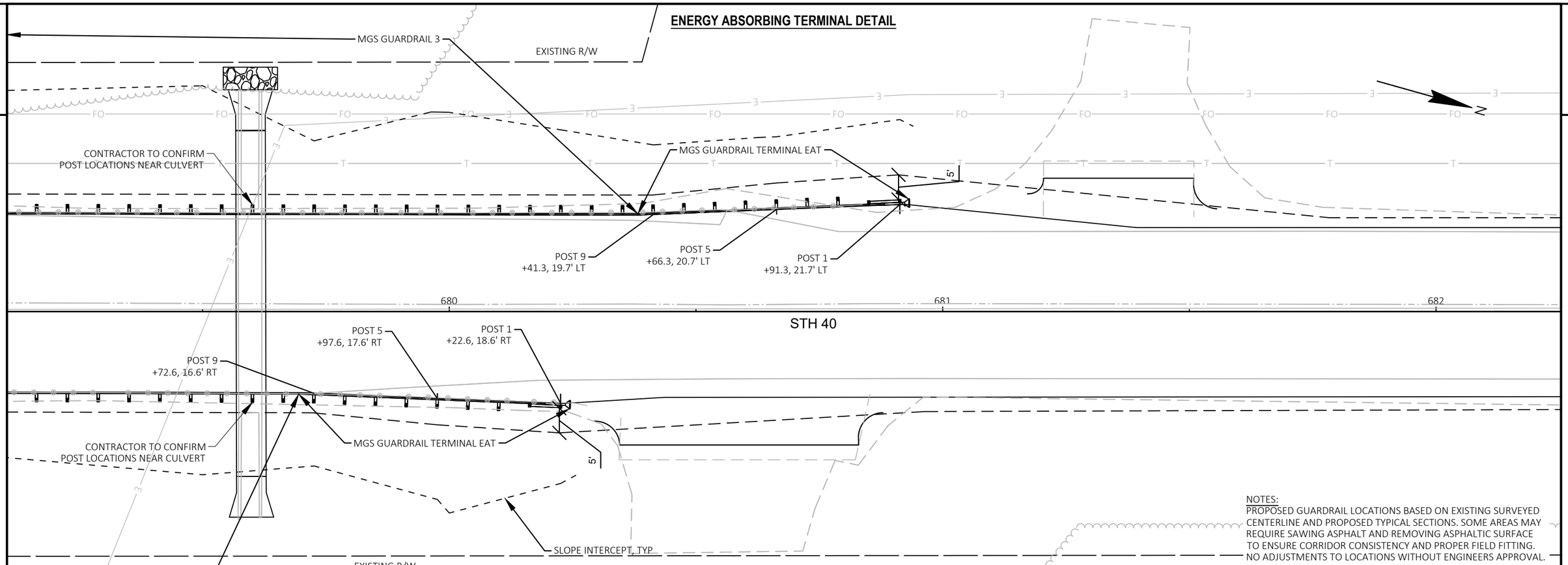


GUARDRAIL SYSTEM OVERVIEW

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 37	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 10
PLOT DATE : 7/31/2025 3:58 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

ENERGY ABSORBING TERMINAL DETAIL



NOTES:
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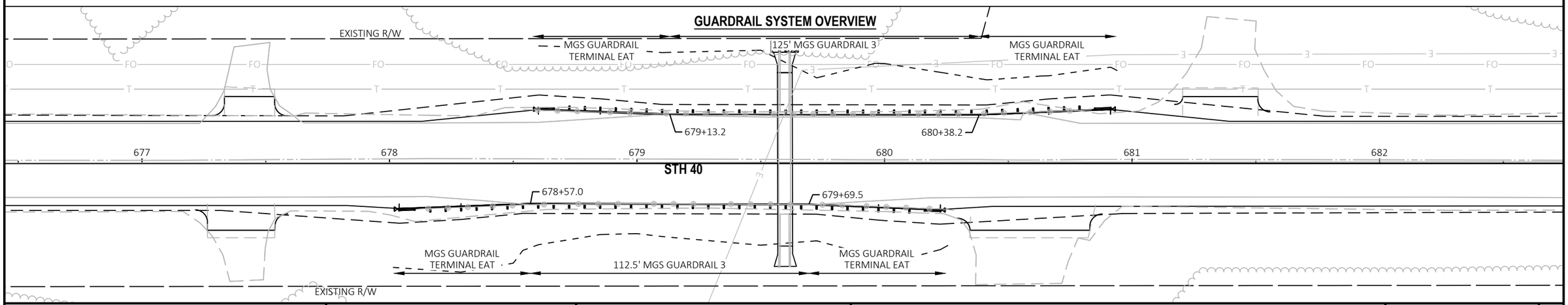
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 38	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 11
PLOT DATE : 7/31/2025 3:59 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

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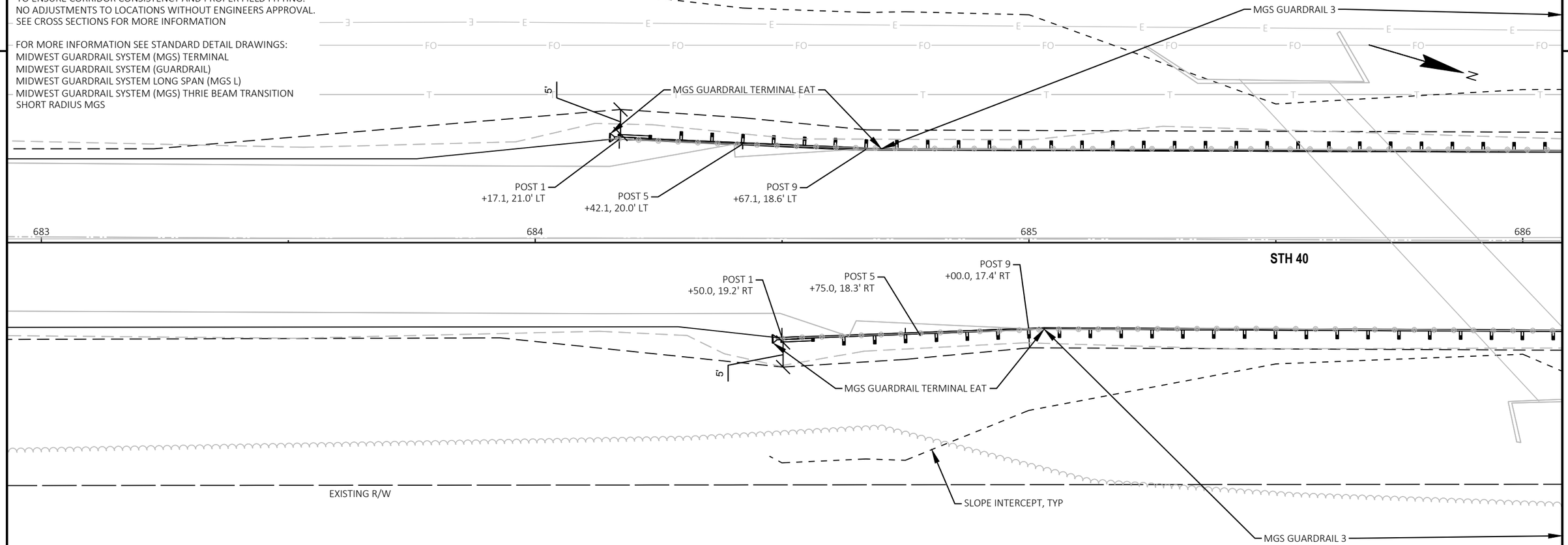
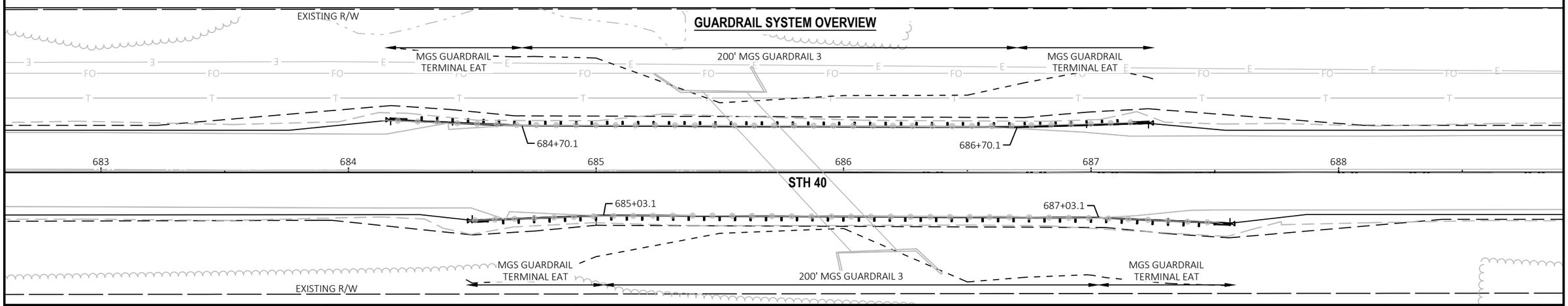
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL



GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 39	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 12
PLOT DATE : 7/31/2025 4:00 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

ENERGY ABSORBING TERMINAL DETAIL

MGS GUARDRAIL 3

EXISTING R/W

MGS GUARDRAIL TERMINAL EAT

5'

POST 9
+73.2, 18.2' LT

POST 5
+98.2, 19.0' LT

POST 1
+23.2, 19.8' LT

686 687 688

STH 40

POST 5
+31.1, 19.4' RT

POST 1
+56.1, 20.5' RT

POST 9
+06.1, 18.3' RT

MGS GUARDRAIL TERMINAL EAT

5'

MGS GUARDRAIL 3

EXISTING R/W

SLOPE INTERCEPT, TYP

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

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MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

N

GUARDRAIL SYSTEM OVERVIEW

EXISTING R/W

MGS GUARDRAIL TERMINAL EAT

200' MGS GUARDRAIL 3

MGS GUARDRAIL TERMINAL EAT

684+70.1

686+70.1

683 684 685 686 687 688

STH 40

685+03.1

687+03.1

MGS GUARDRAIL TERMINAL EAT

200' MGS GUARDRAIL 3

MGS GUARDRAIL TERMINAL EAT

EXISTING R/W

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 40	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 13

PLOT DATE : 7/31/2025 4:00 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

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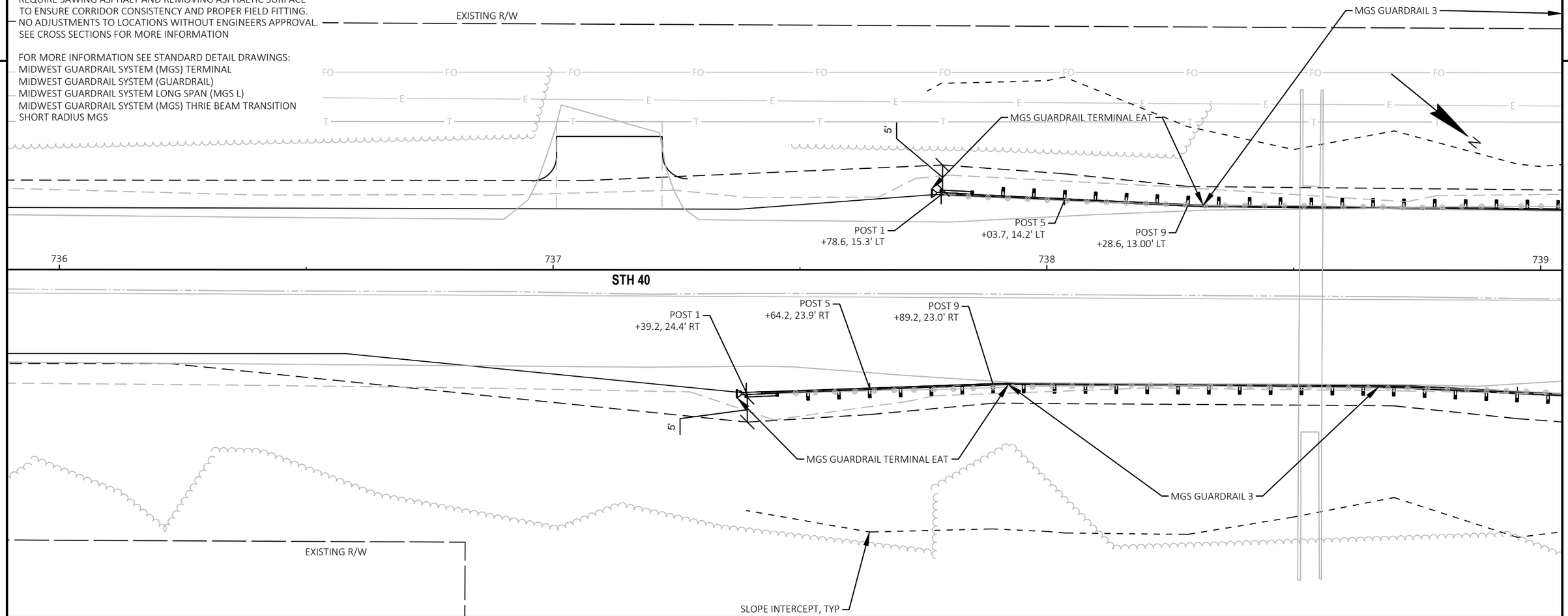
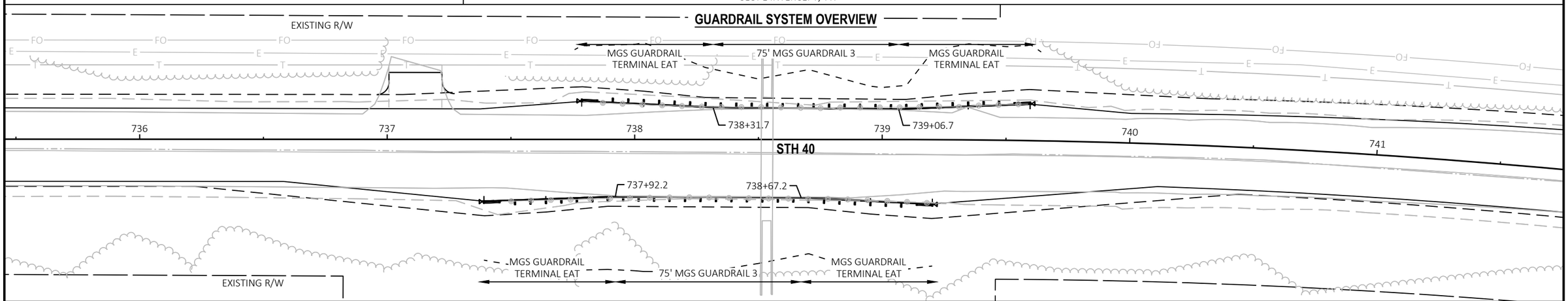
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL



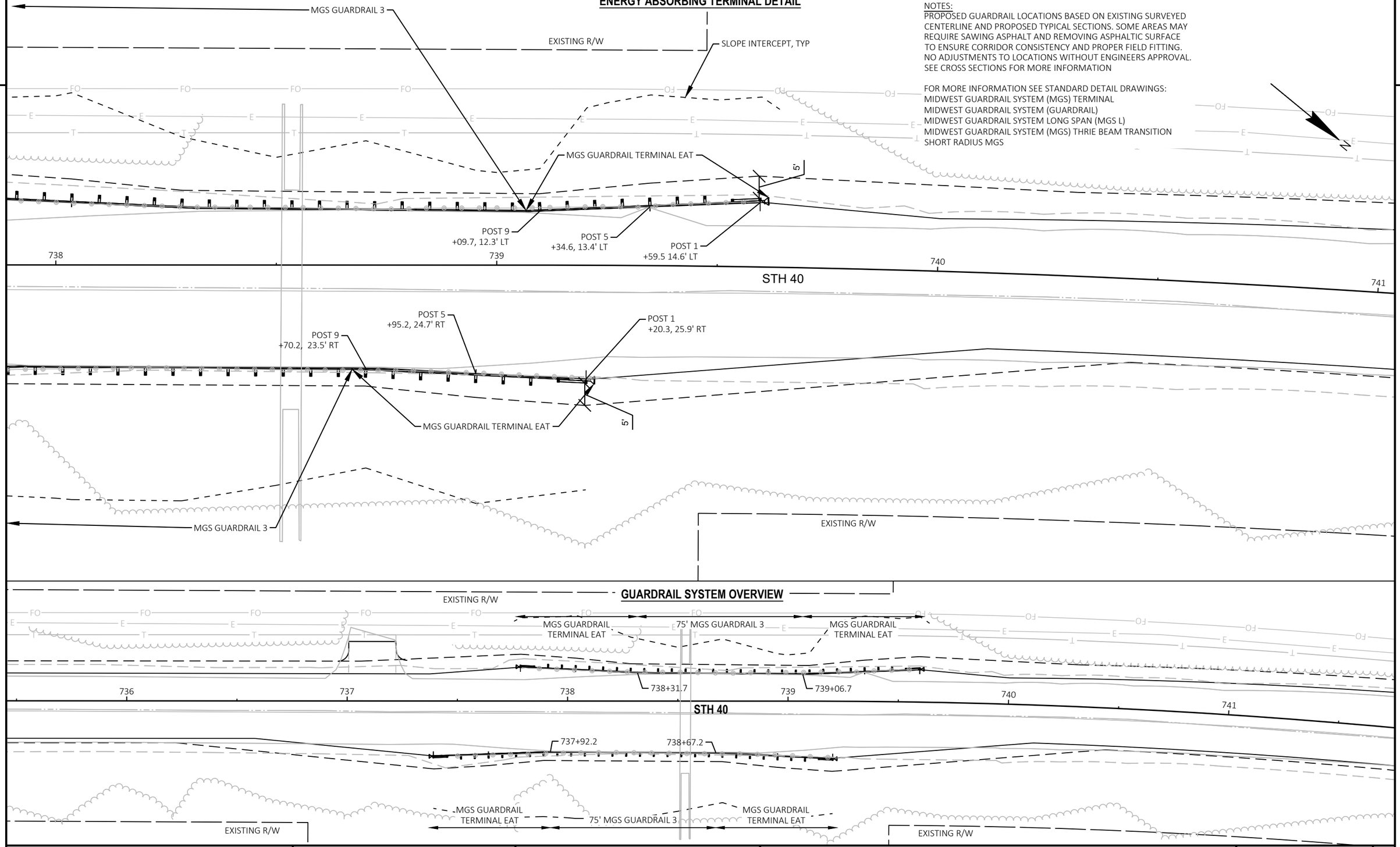
GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 41	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 14
PLOT DATE : 7/31/2025 4:01 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

ENERGY ABSORBING TERMINAL DETAIL



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MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

GUARDRAIL SYSTEM OVERVIEW

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 42	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 15
PLOT DATE : 7/31/2025 4:02 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

2

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

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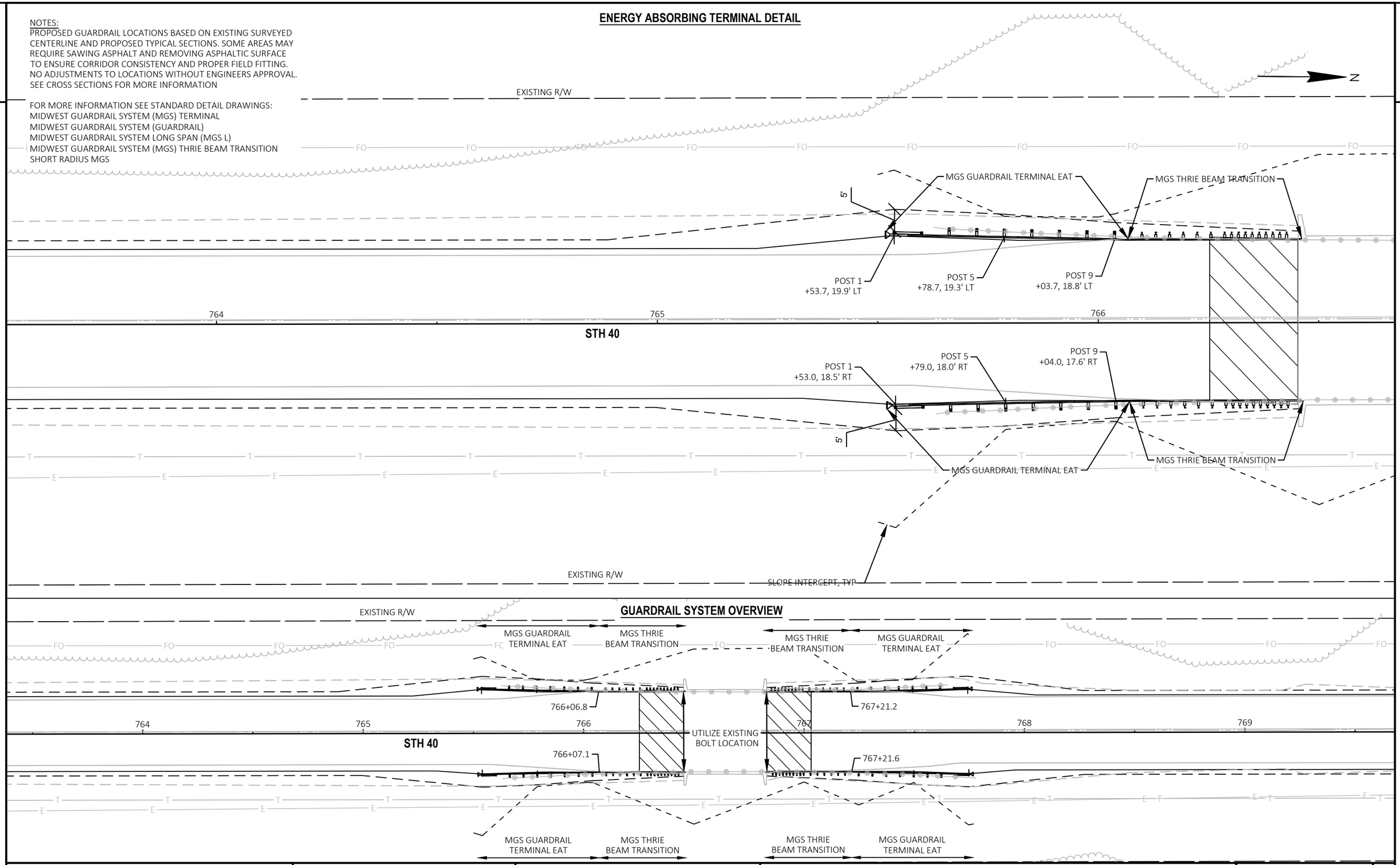
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL

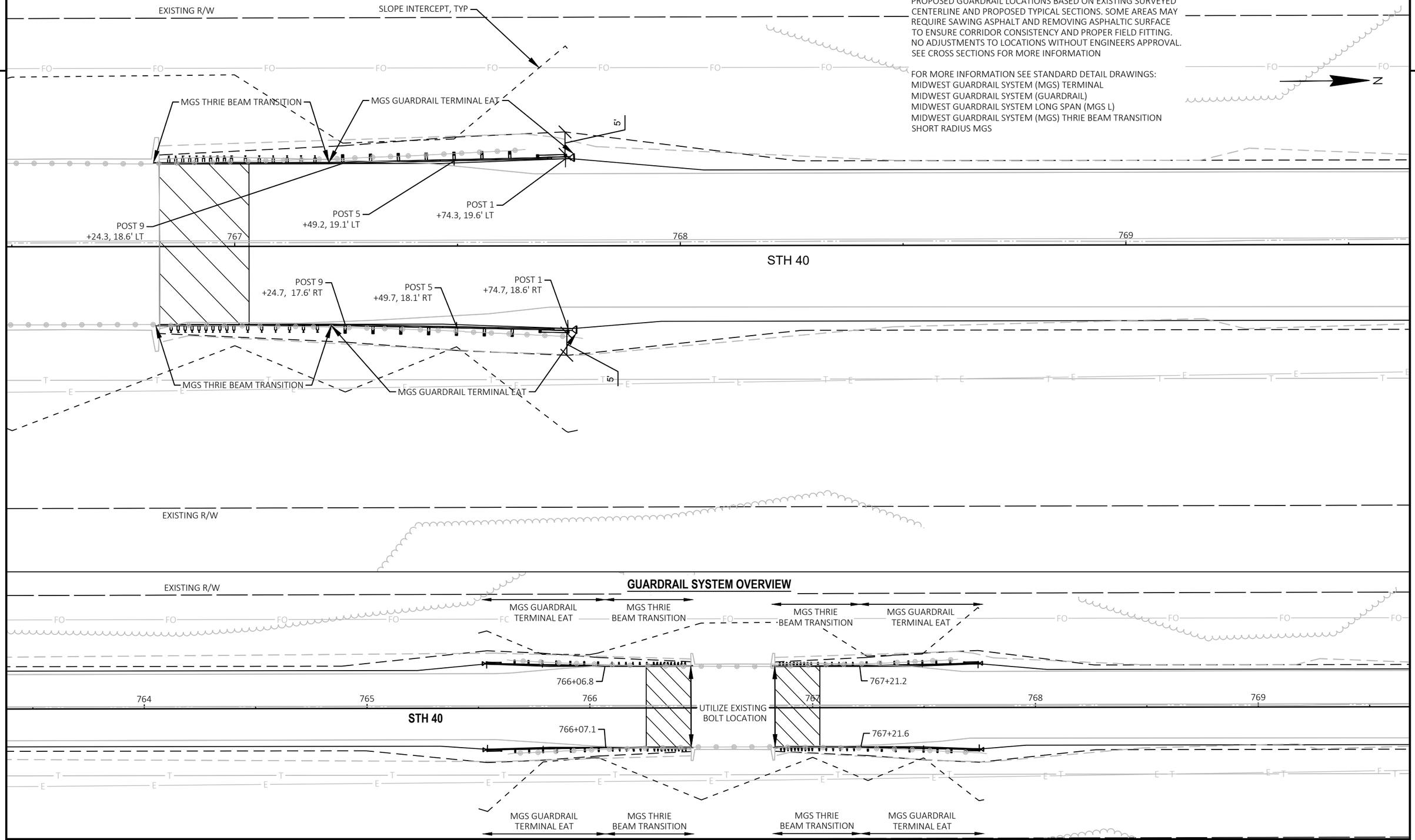


GUARDRAIL SYSTEM OVERVIEW

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 43	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 16
PLOT DATE : 7/31/2025 4:03 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:20 FT

ENERGY ABSORBING TERMINAL DETAIL



GUARDRAIL SYSTEM OVERVIEW

NOTES:
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MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 44	E

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

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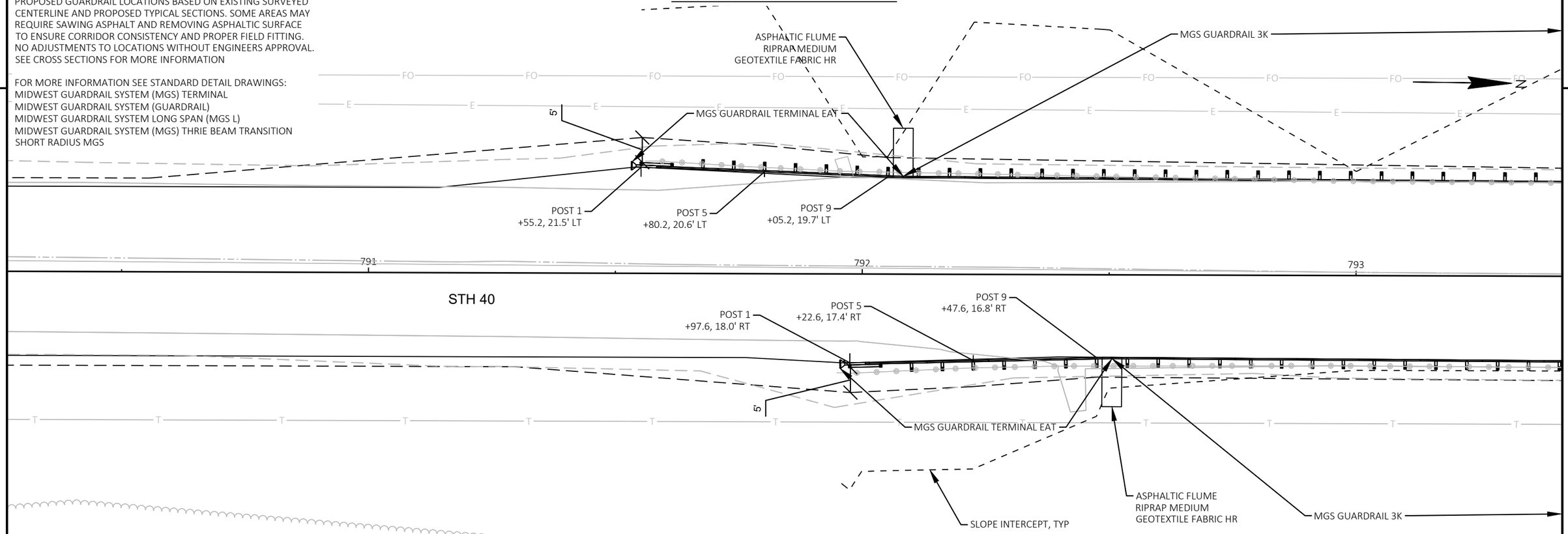
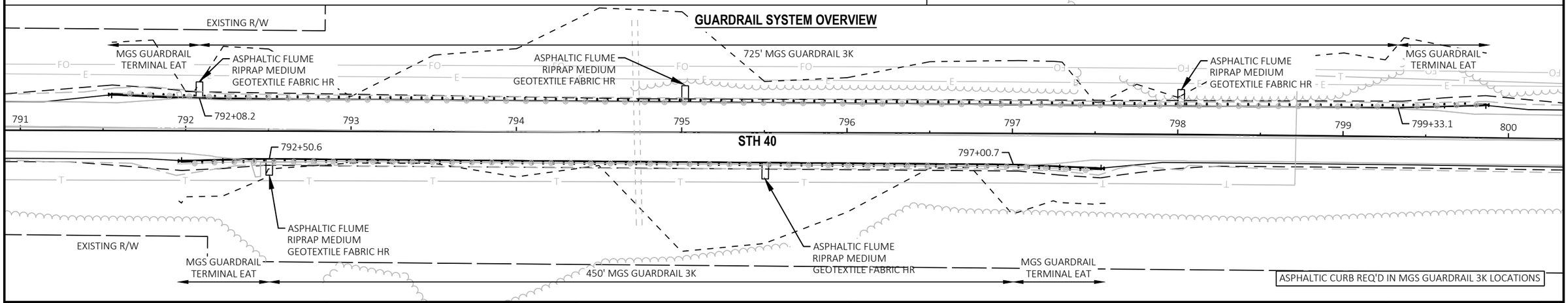
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL



GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 45	E

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

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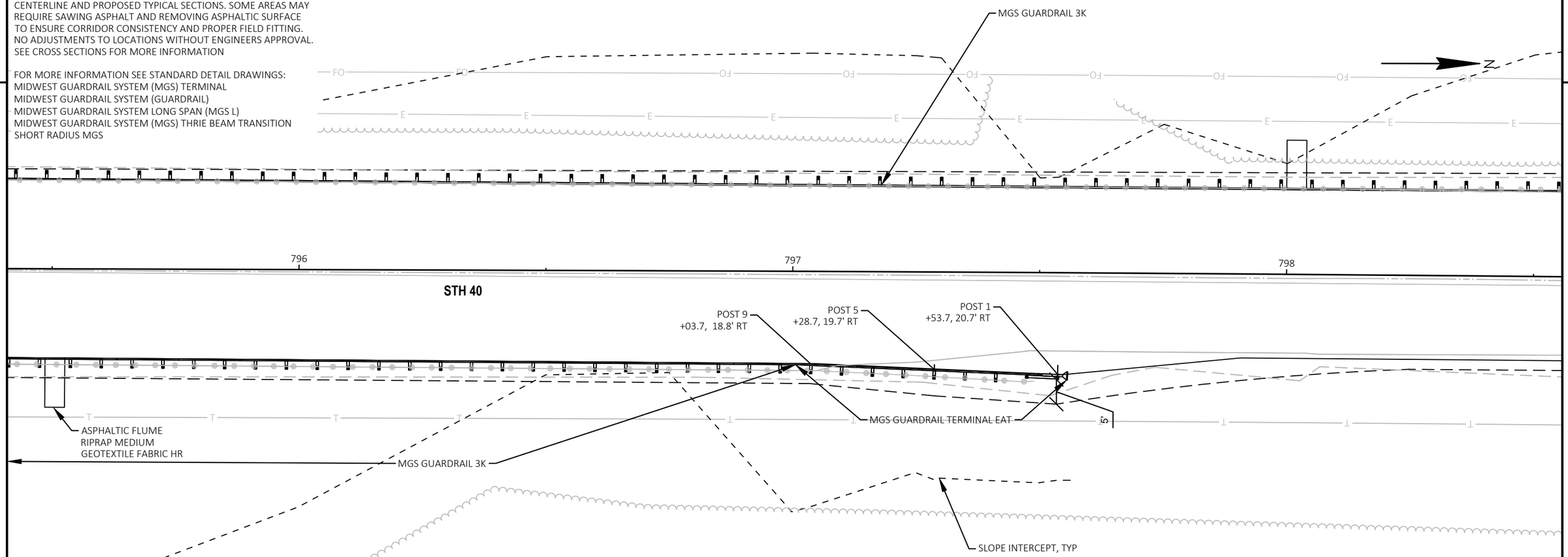
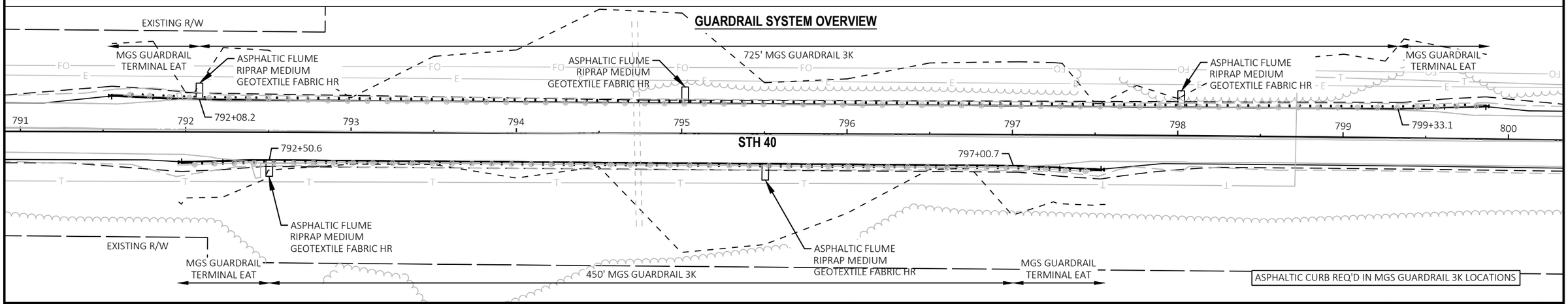
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL



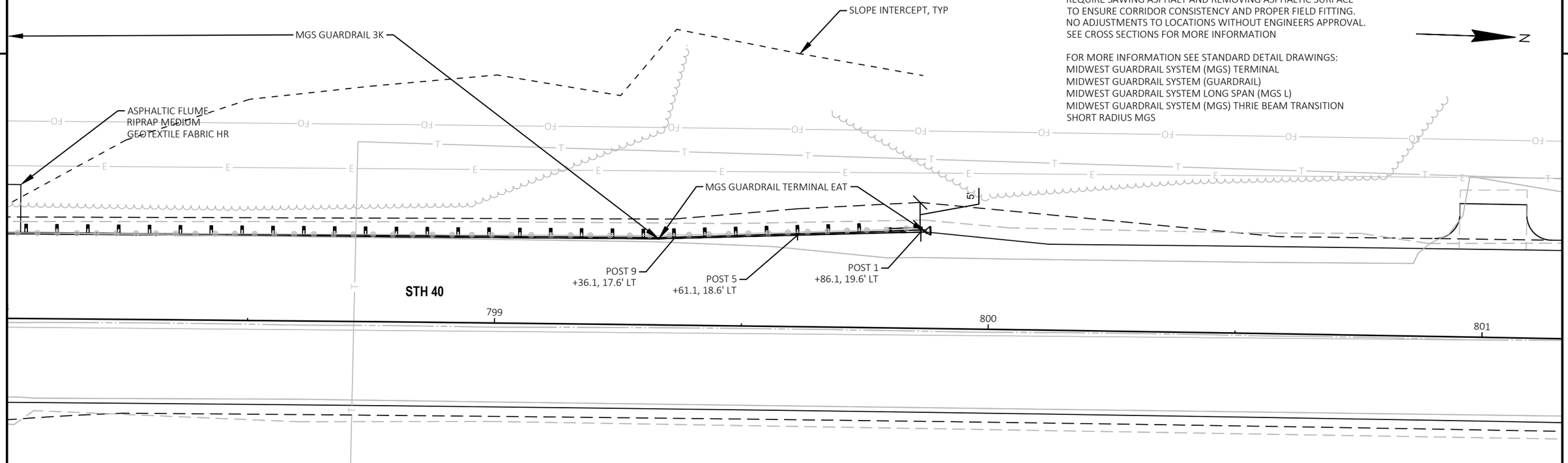
GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 46	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 19
PLOT DATE : 7/31/2025 4:05 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

ENERGY ABSORBING TERMINAL DETAIL

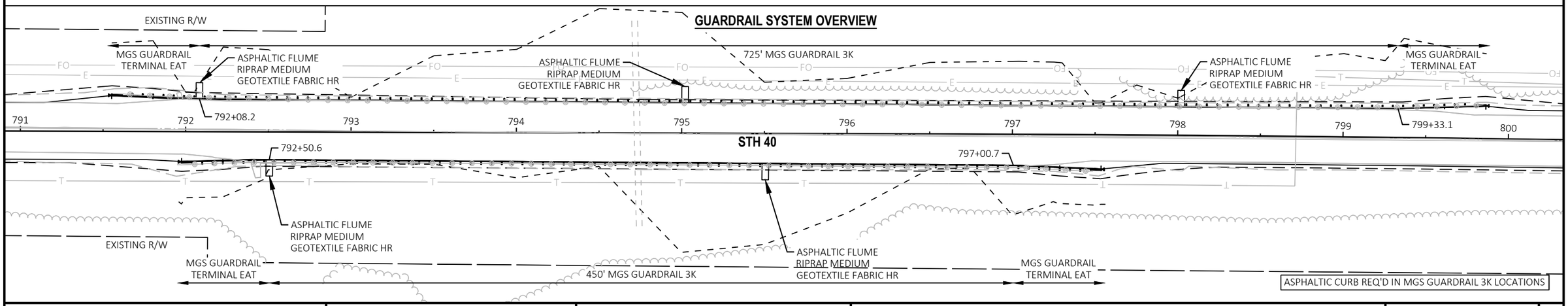


NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

N

GUARDRAIL SYSTEM OVERVIEW



ASPHALTIC CURB REQ'D IN MGS GUARDRAIL 3K LOCATIONS

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 47	E

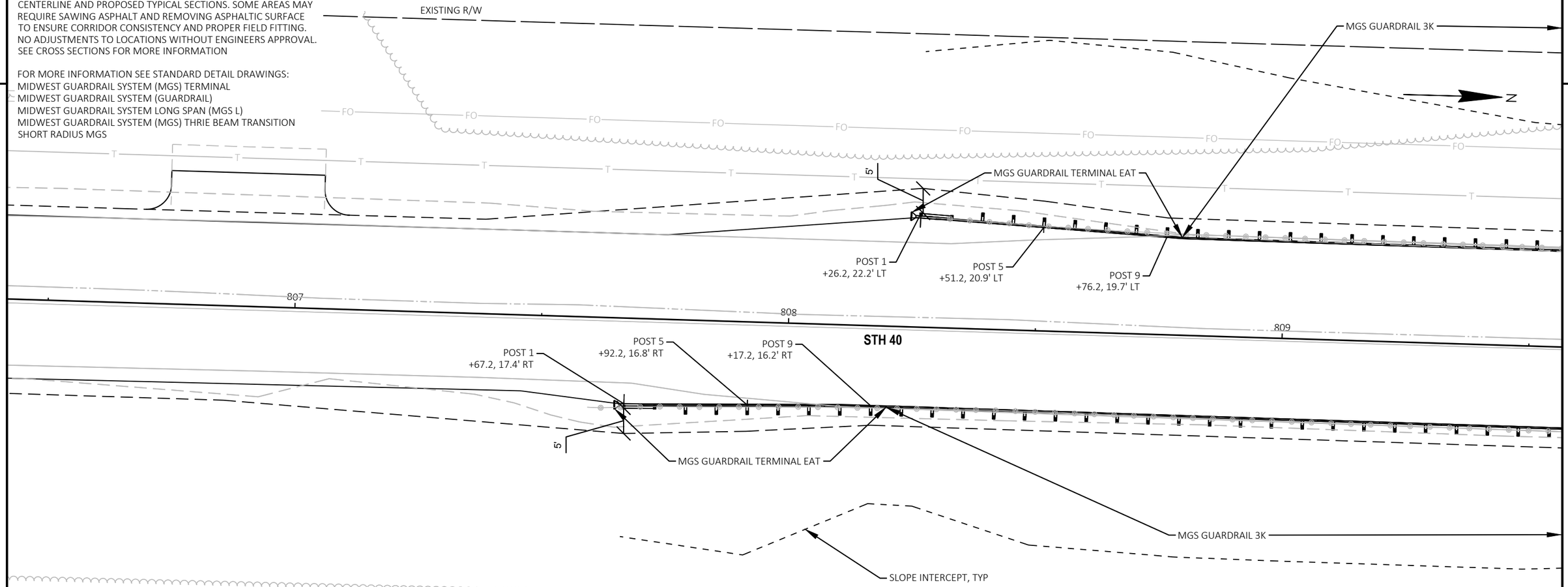
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 20
PLOT DATE : 7/31/2025 4:05 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

2

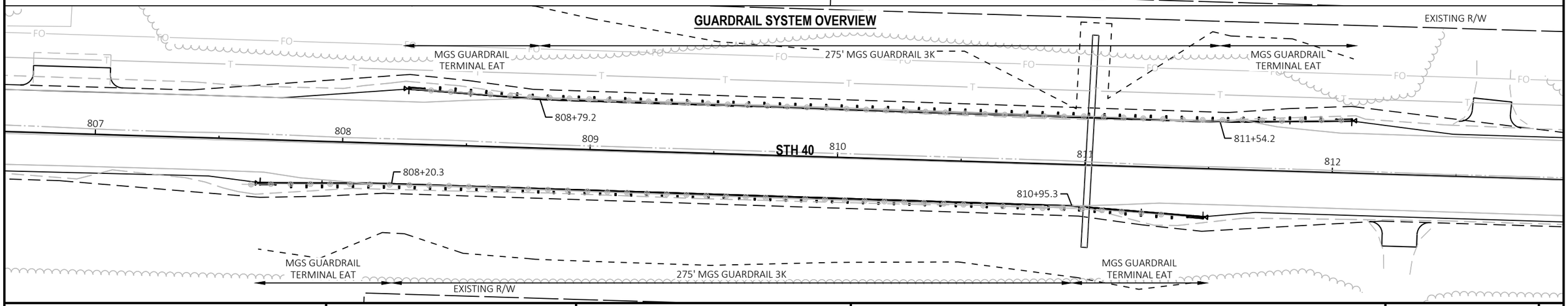
NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL



GUARDRAIL SYSTEM OVERVIEW

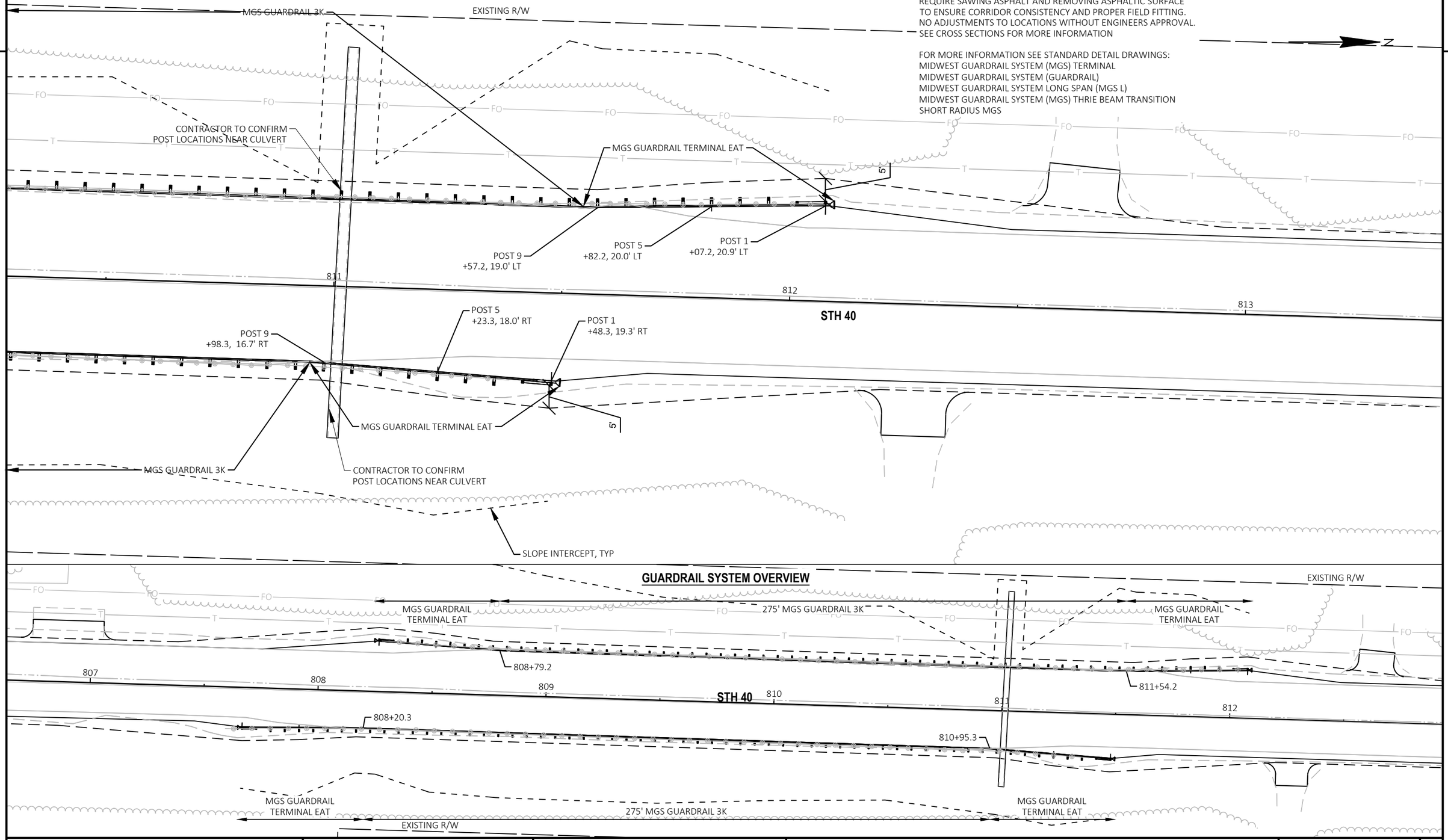


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 48	E

ENERGY ABSORBING TERMINAL DETAIL

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS



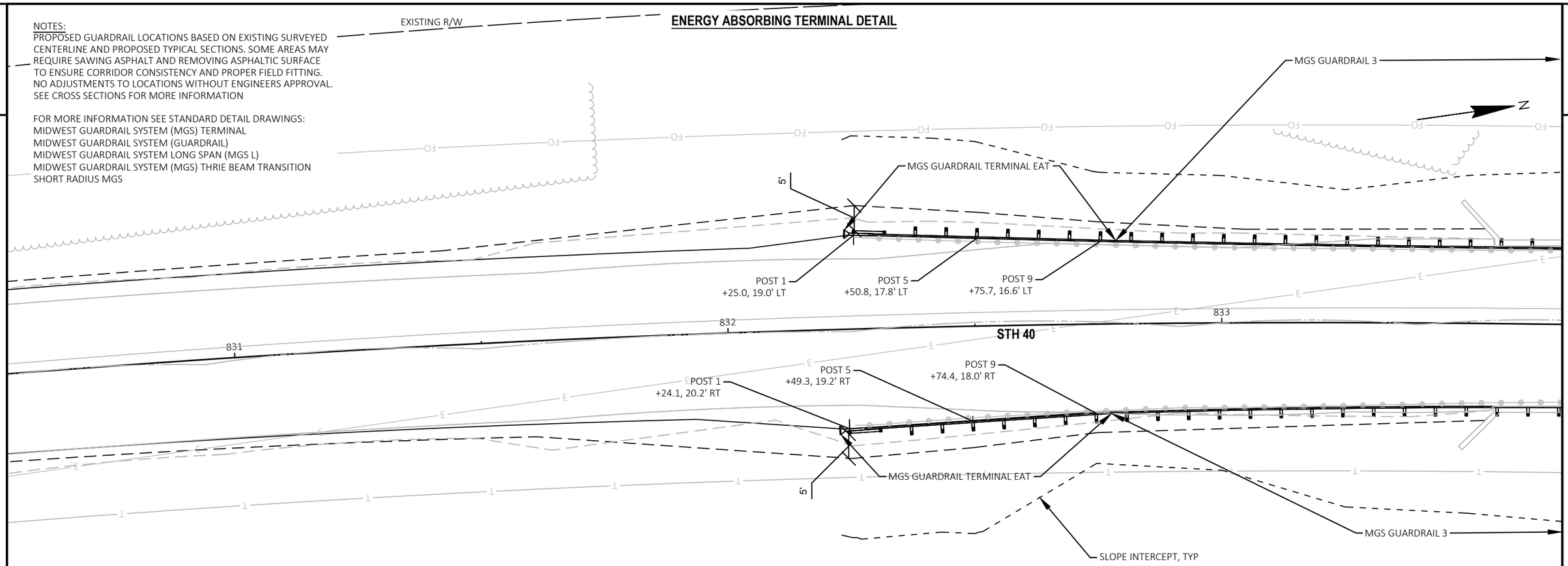
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 49	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 22
PLOT DATE : 7/31/2025 4:07 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

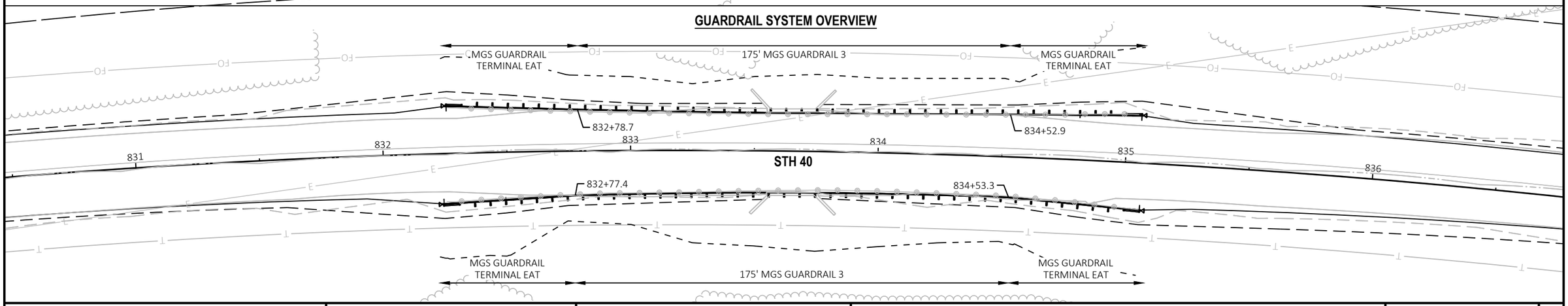
NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL



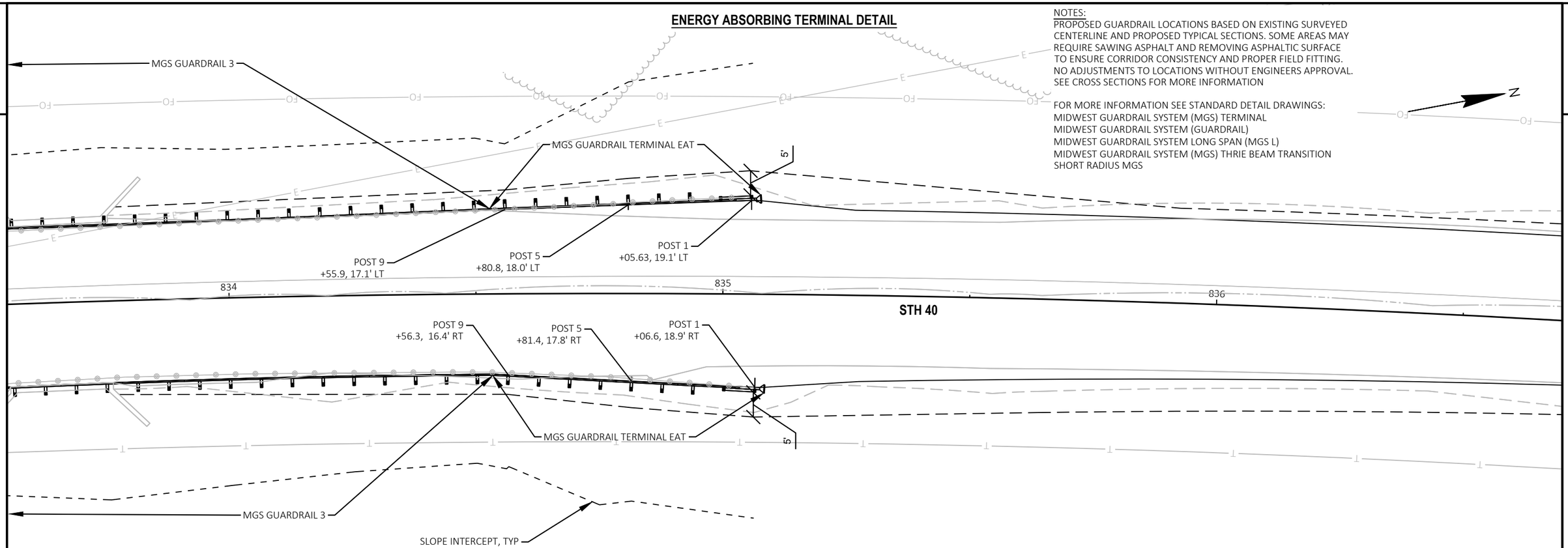
GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 50	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 23
PLOT DATE : 7/31/2025 4:08 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

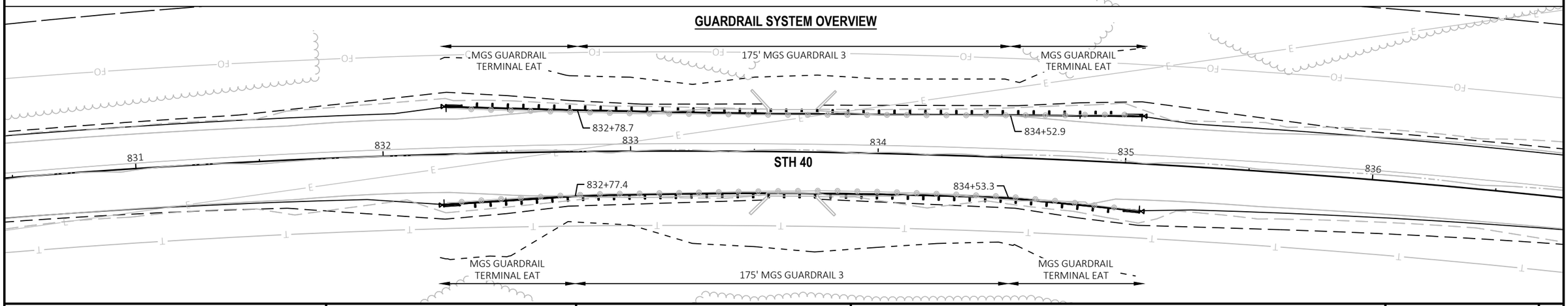
ENERGY ABSORBING TERMINAL DETAIL



NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

GUARDRAIL SYSTEM OVERVIEW



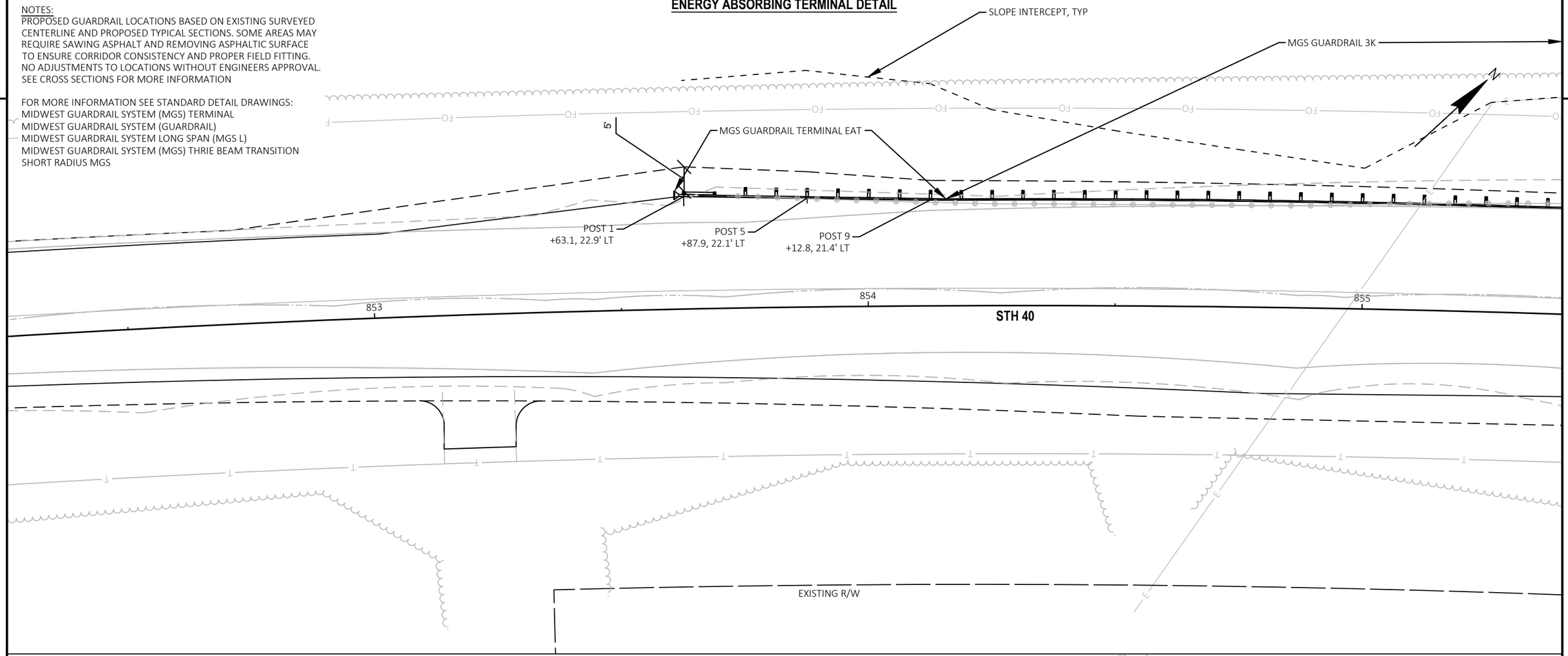
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 51	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 24
PLOT DATE : 7/31/2025 4:08 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

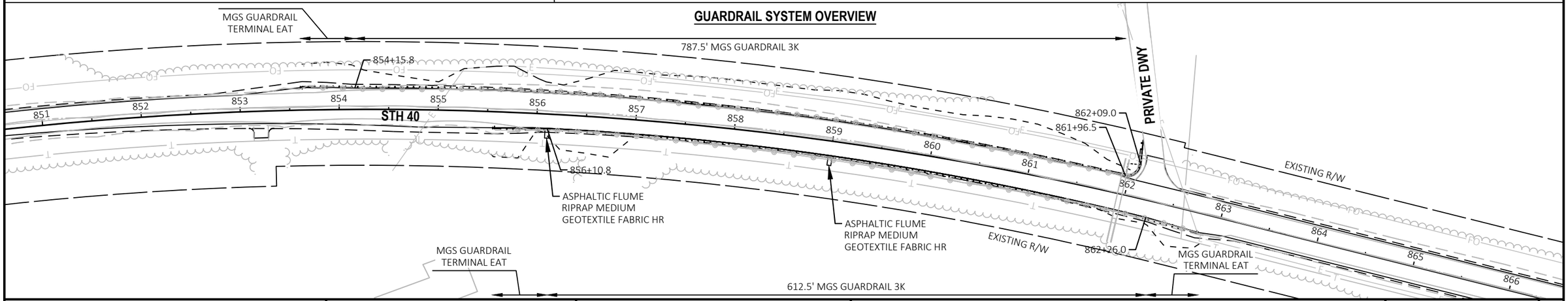
NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL



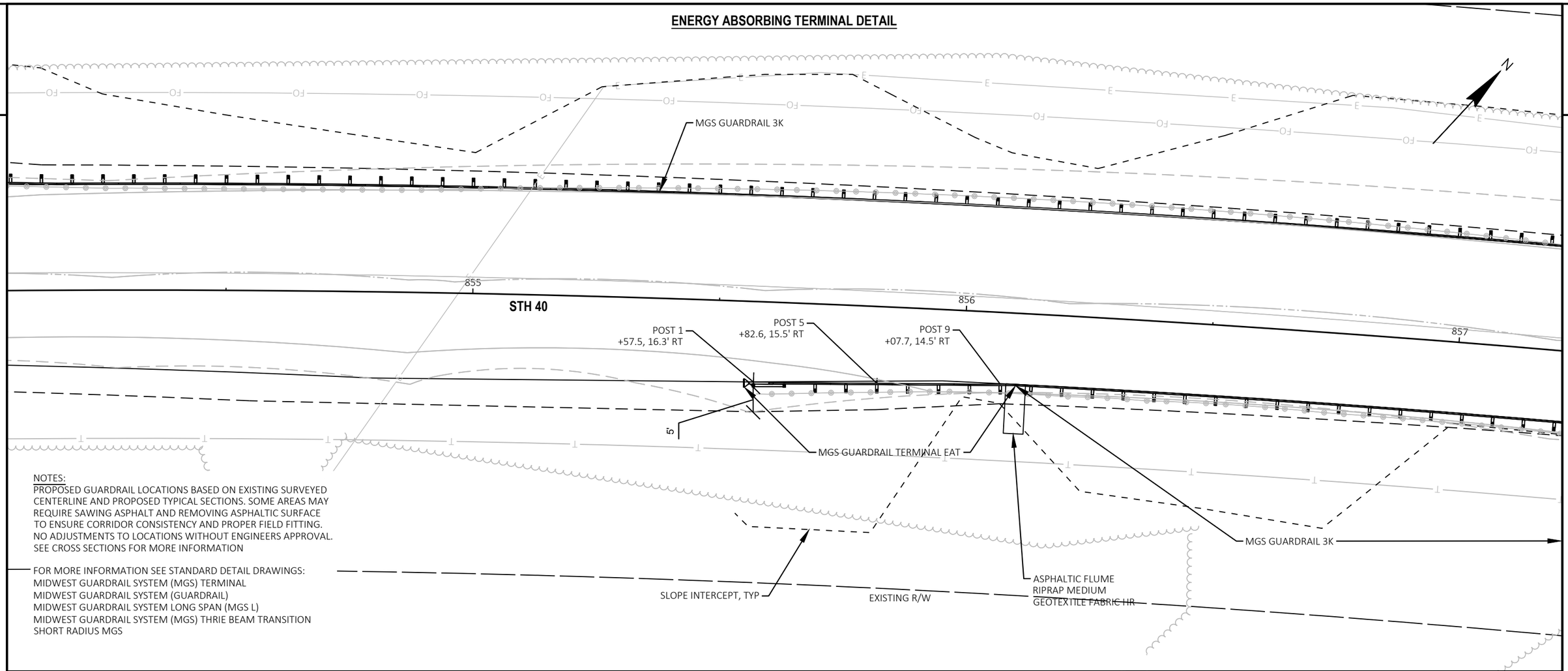
GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 52	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 25
PLOT DATE : 7/31/2025 4:09 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

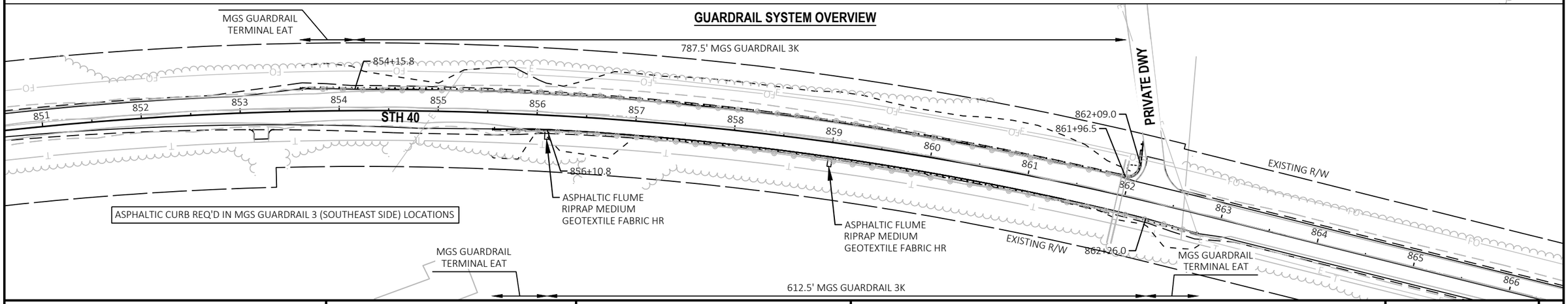
ENERGY ABSORBING TERMINAL DETAIL



NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

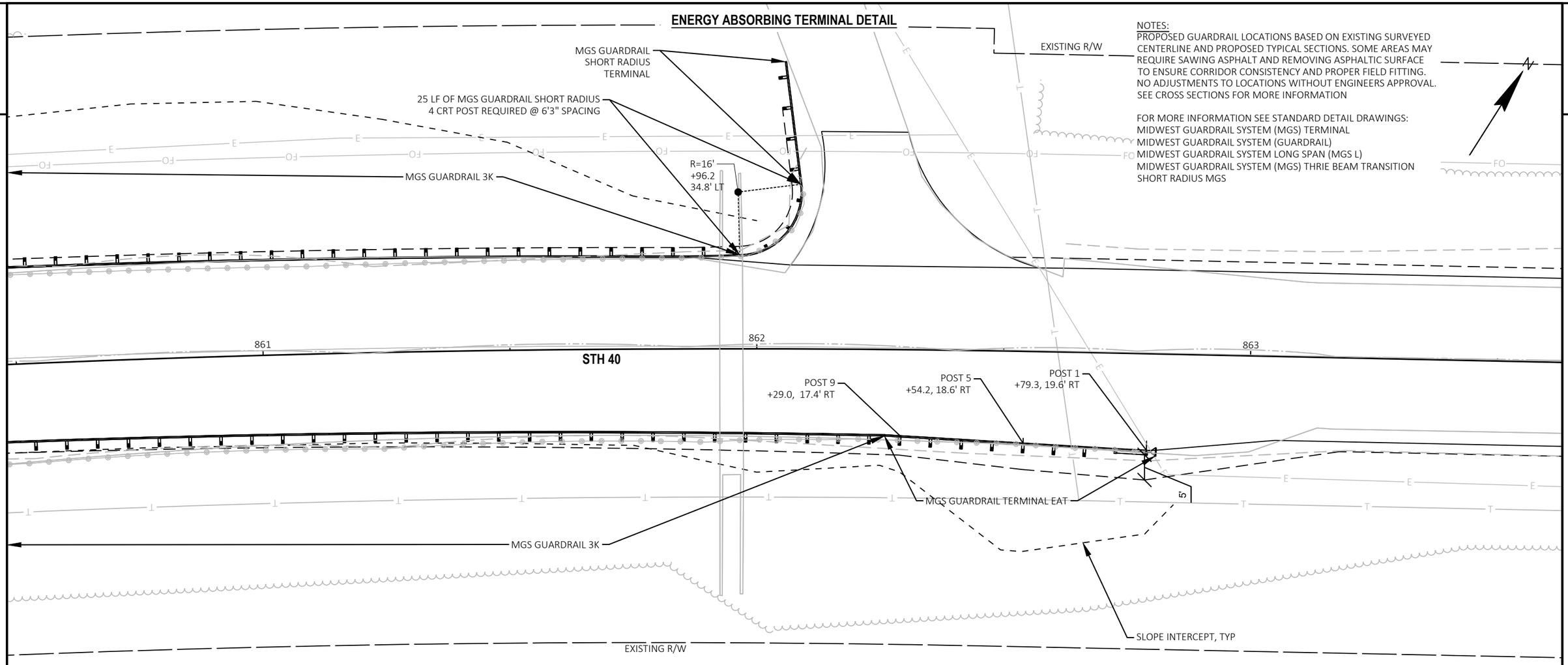
FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 53	E

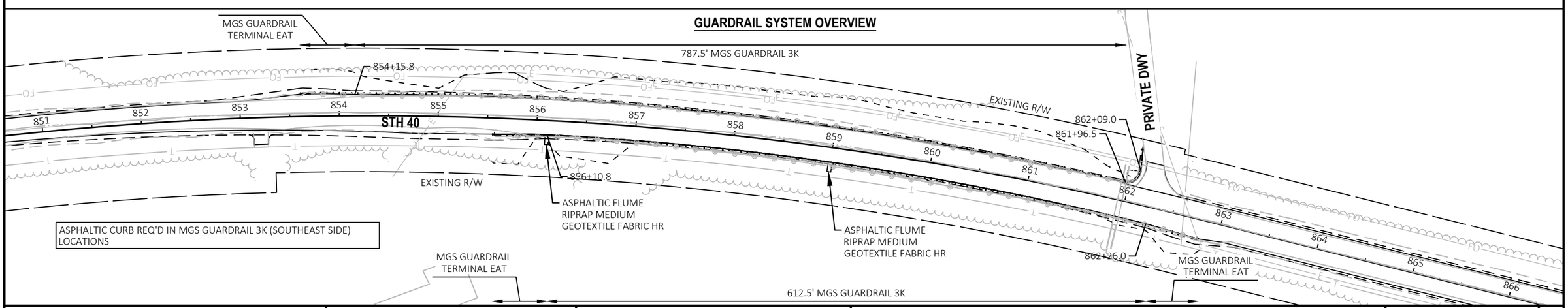
ENERGY ABSORBING TERMINAL DETAIL



NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

GUARDRAIL SYSTEM OVERVIEW



ASPHALTIC CURB REQ'D IN MGS GUARDRAIL 3K (SOUTHEAST SIDE) LOCATIONS

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 54	E

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

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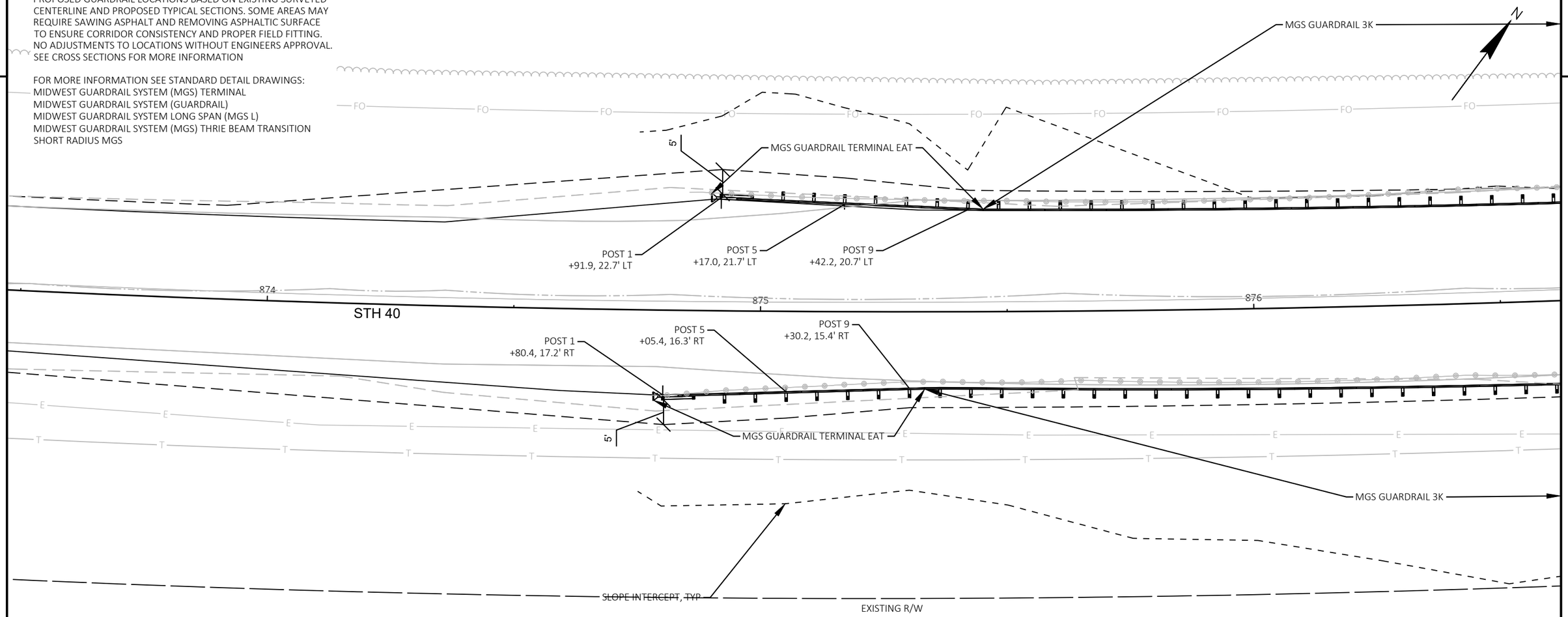
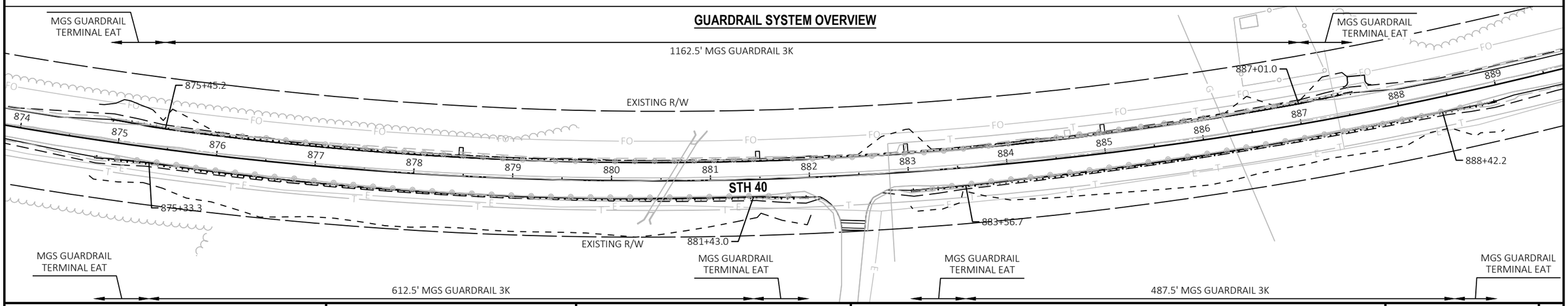
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

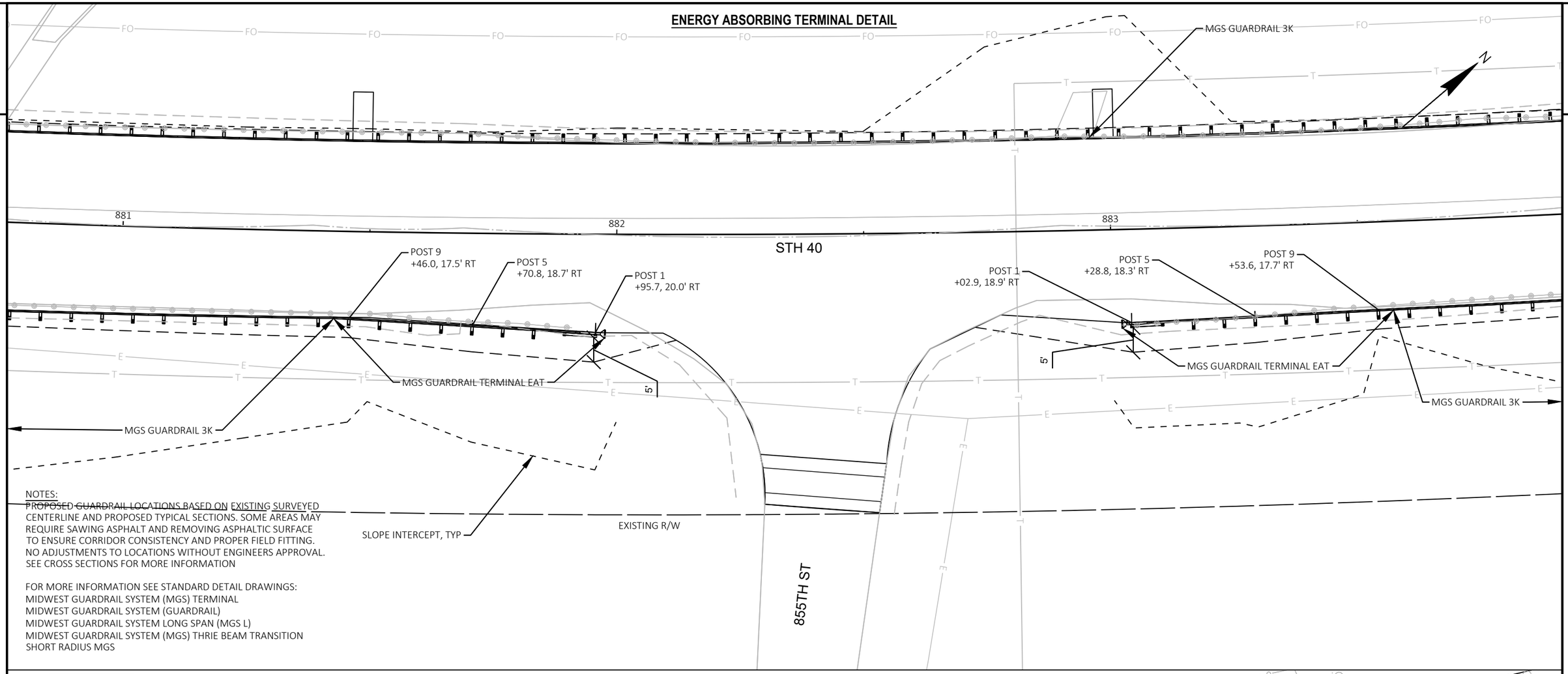
ENERGY ABSORBING TERMINAL DETAIL



GUARDRAIL SYSTEM OVERVIEW



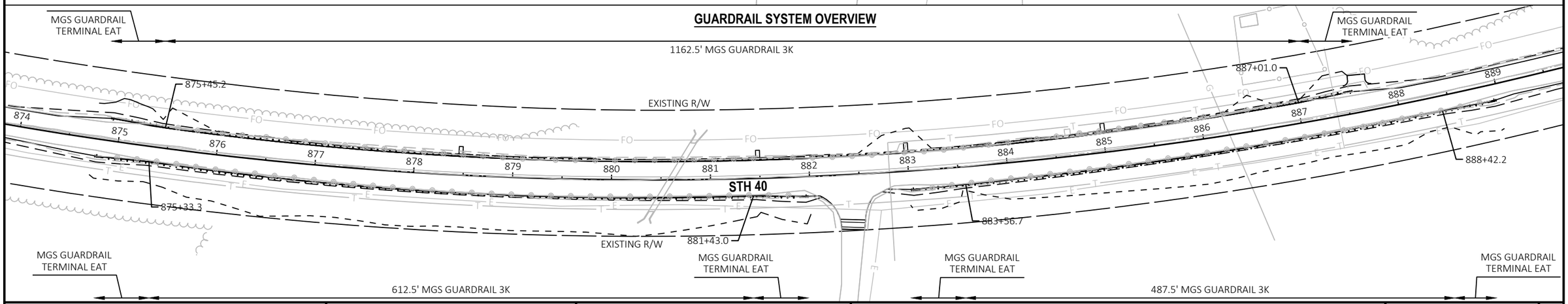
ENERGY ABSORBING TERMINAL DETAIL



NOTES:
~~PROPOSED GUARDRAIL LOCATIONS BASED ON~~ EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 56	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 29
PLOT DATE : 7/31/2025 4:12 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

ENERGY ABSORBING TERMINAL DETAIL

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

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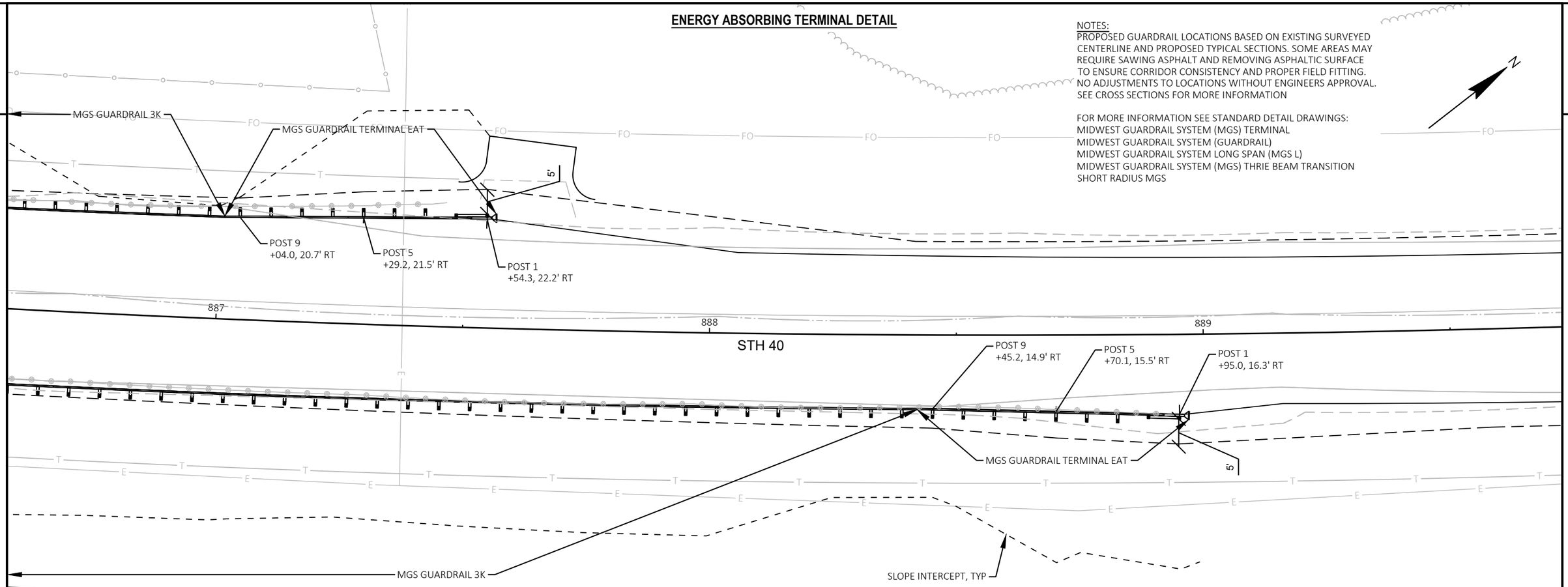
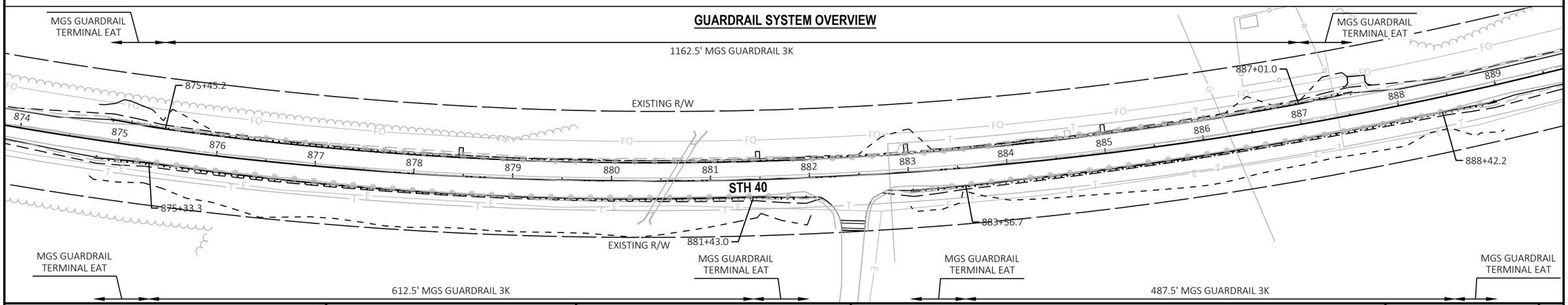
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS



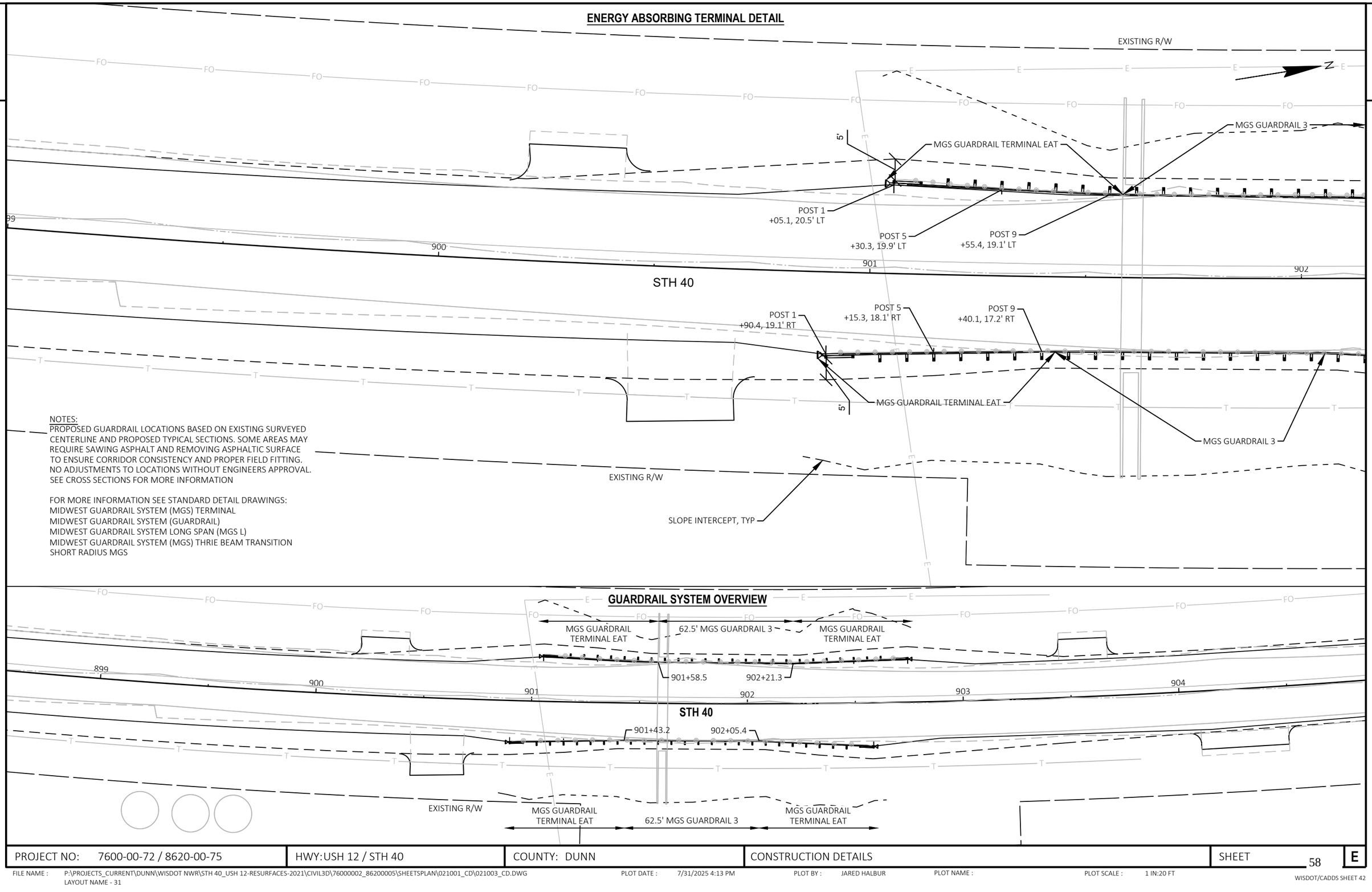
GUARDRAIL SYSTEM OVERVIEW



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 57	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 30
PLOT DATE : 7/31/2025 4:13 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

ENERGY ABSORBING TERMINAL DETAIL



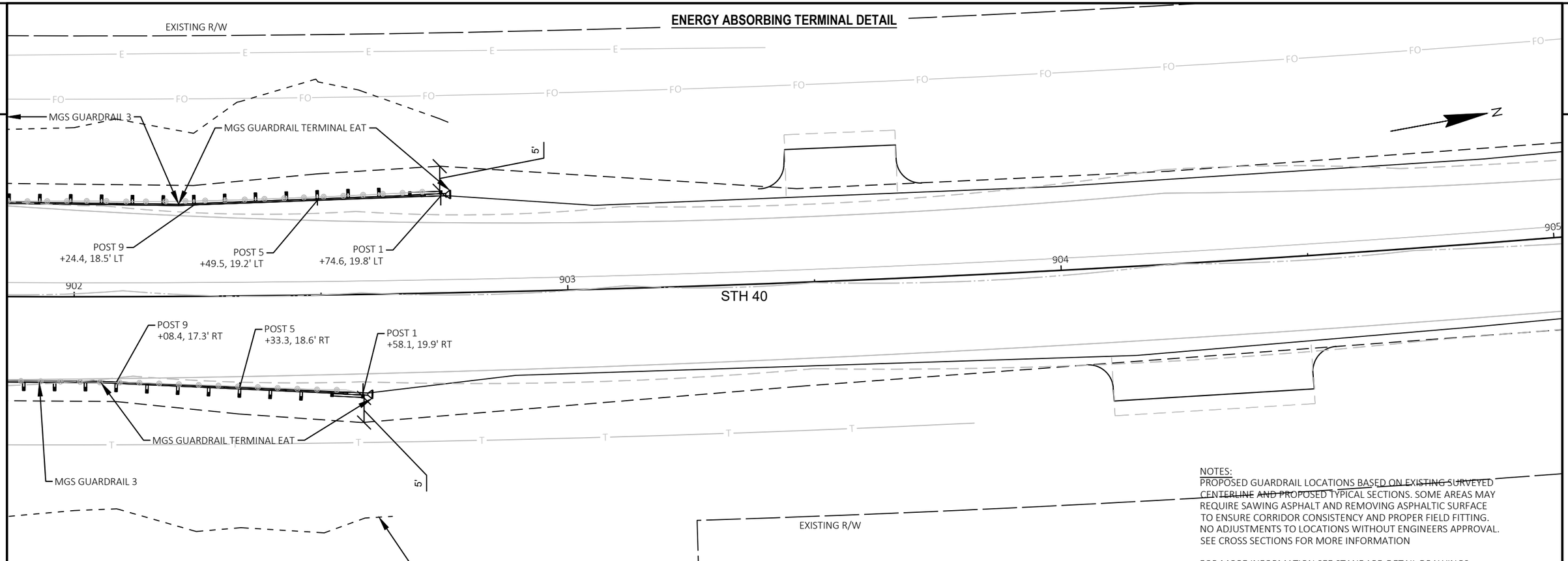
NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

GUARDRAIL SYSTEM OVERVIEW

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 58	E

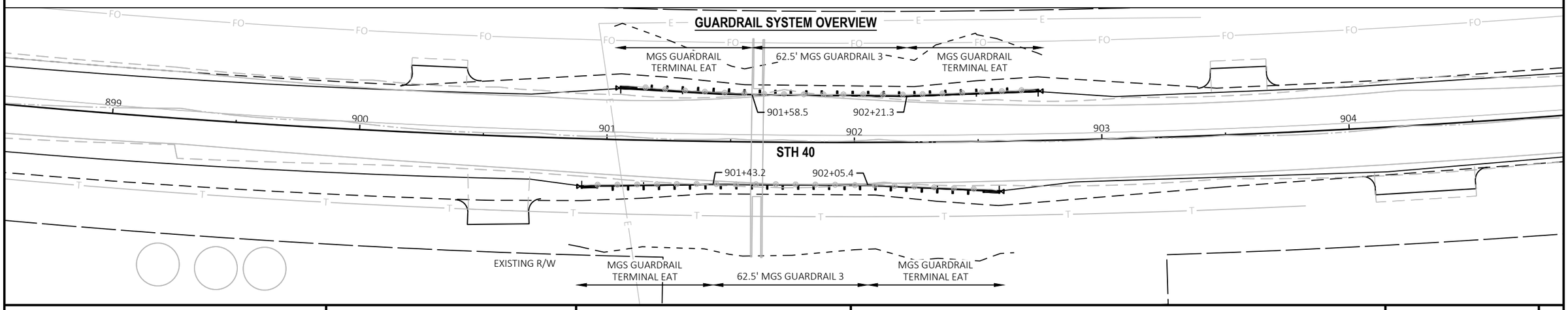
ENERGY ABSORBING TERMINAL DETAIL



NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

GUARDRAIL SYSTEM OVERVIEW



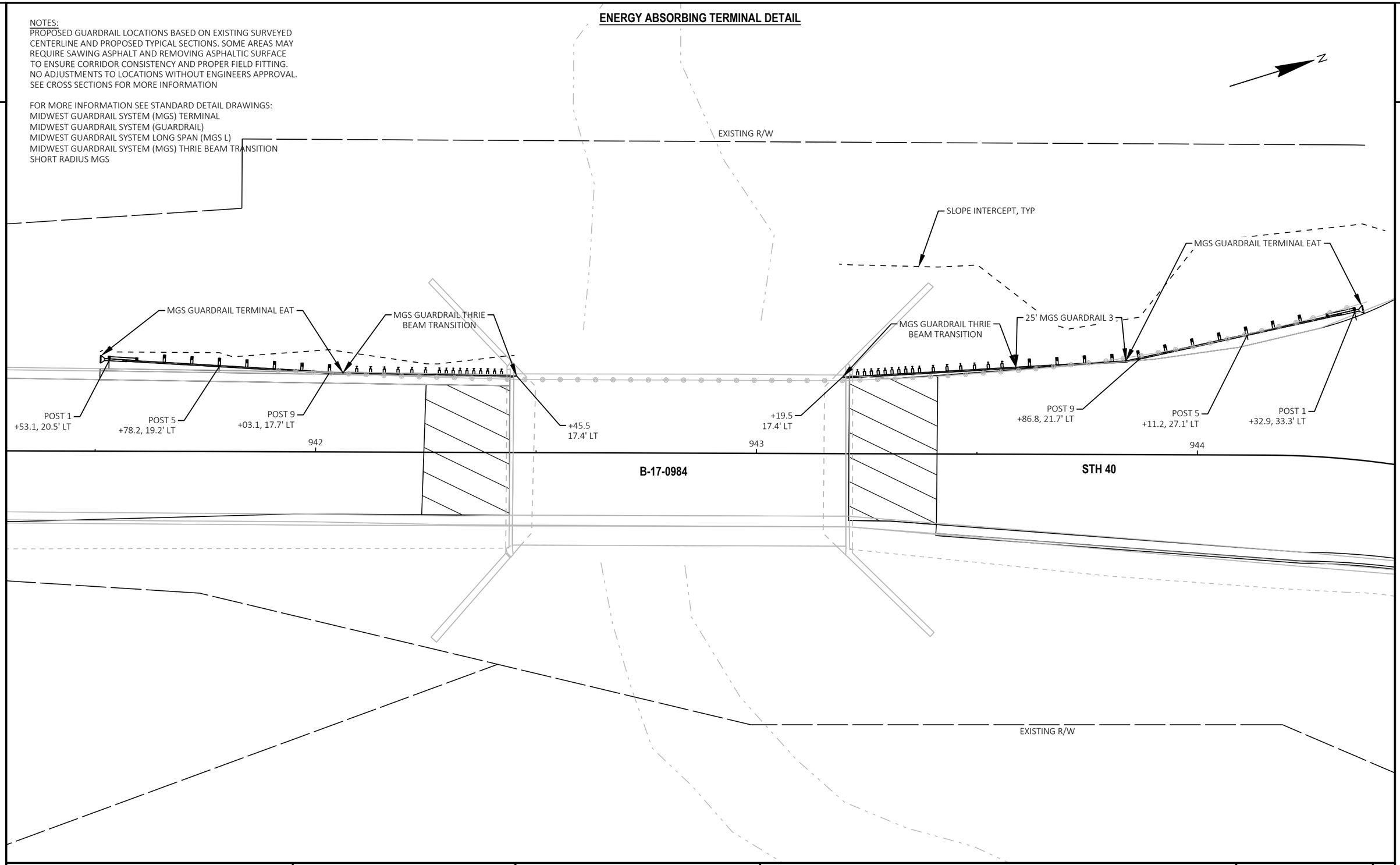
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 59	E

2

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL



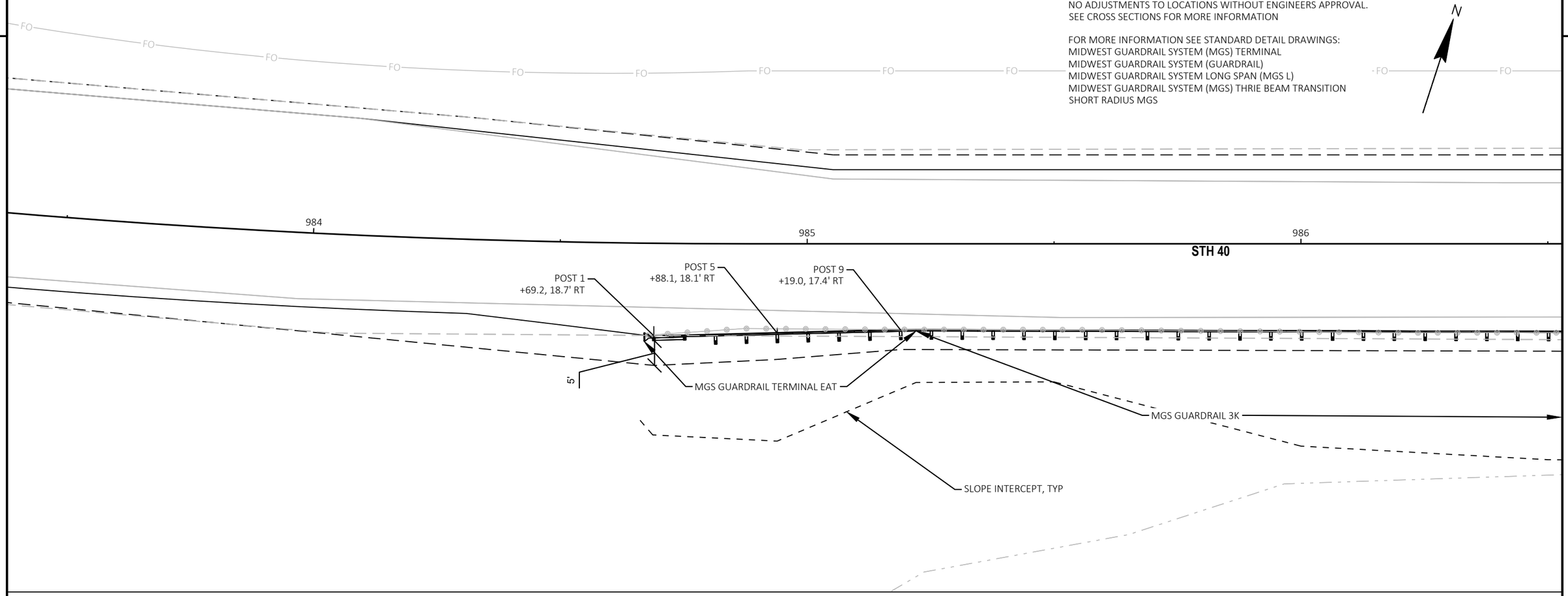
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 60	E

2

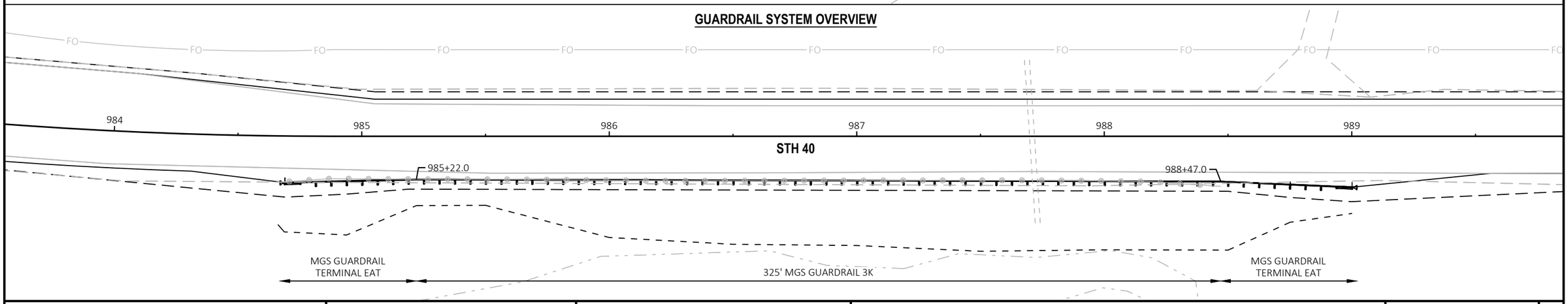
ENERGY ABSORBING TERMINAL DETAIL

NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS



GUARDRAIL SYSTEM OVERVIEW



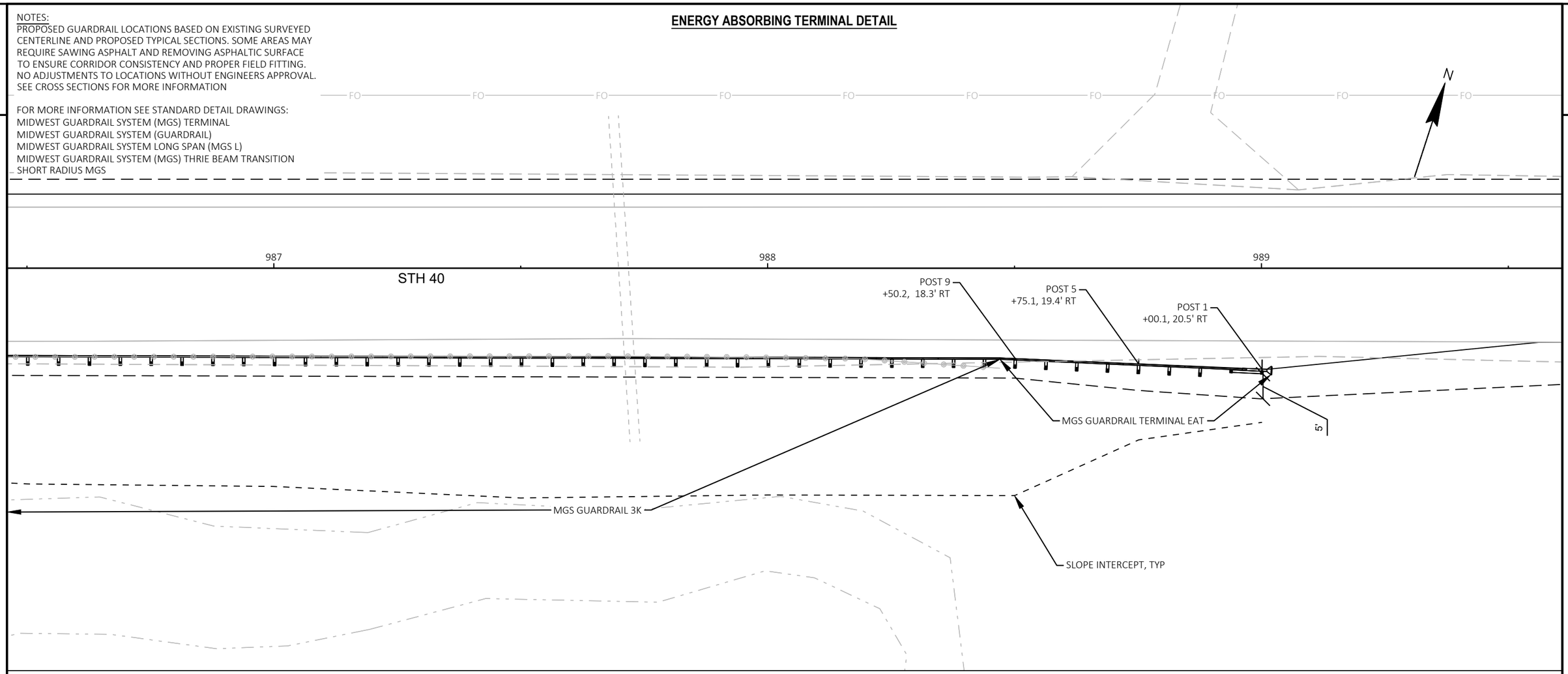
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 61	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 34
PLOT DATE : 7/31/2025 4:15 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

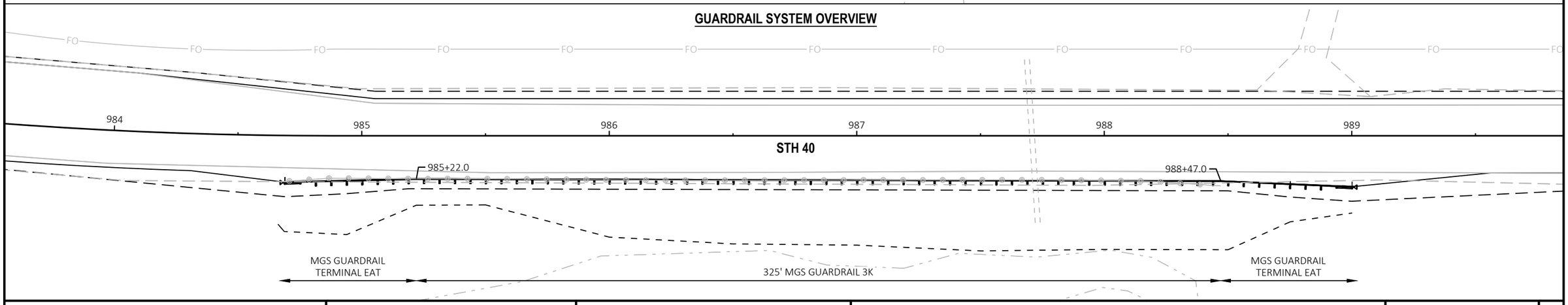
NOTES:
PROPOSED GUARDRAIL LOCATIONS BASED ON EXISTING SURVEYED CENTERLINE AND PROPOSED TYPICAL SECTIONS. SOME AREAS MAY REQUIRE SAWING ASPHALT AND REMOVING ASPHALTIC SURFACE TO ENSURE CORRIDOR CONSISTENCY AND PROPER FIELD FITTING. NO ADJUSTMENTS TO LOCATIONS WITHOUT ENGINEERS APPROVAL. SEE CROSS SECTIONS FOR MORE INFORMATION

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS:
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
MIDWEST GUARDRAIL SYSTEM (GUARDRAIL)
MIDWEST GUARDRAIL SYSTEM LONG SPAN (MGS L)
MIDWEST GUARDRAIL SYSTEM (MGS) THRIE BEAM TRANSITION
SHORT RADIUS MGS

ENERGY ABSORBING TERMINAL DETAIL

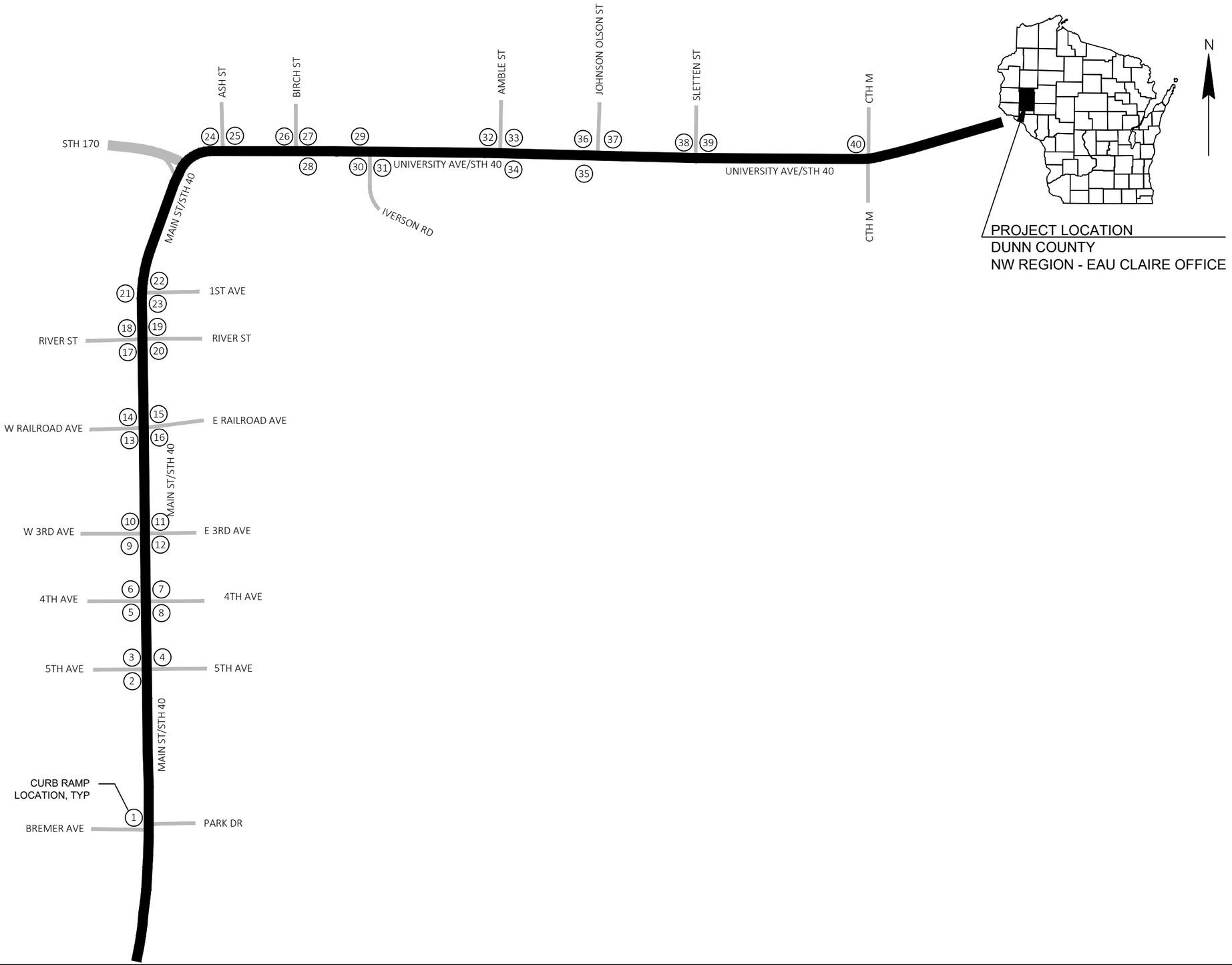


GUARDRAIL SYSTEM OVERVIEW



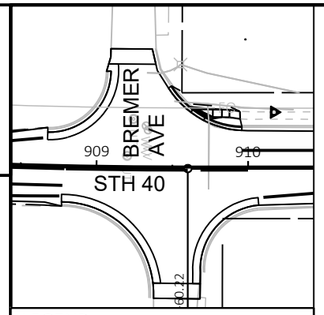
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CONSTRUCTION DETAILS	SHEET 62	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021003_CD.DWG
LAYOUT NAME - 35
PLOT DATE : 7/31/2025 4:16 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 7600-00-72/8620-00-75	HWY: USH 12/STH 40	COUNTY: DUNN	CURB RAMP OVERVIEW	SHEET 63	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\020201_PO\020201_PO.DWG
LAYOUT NAME - 02
PLOT DATE : 7/31/2025 3:33 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

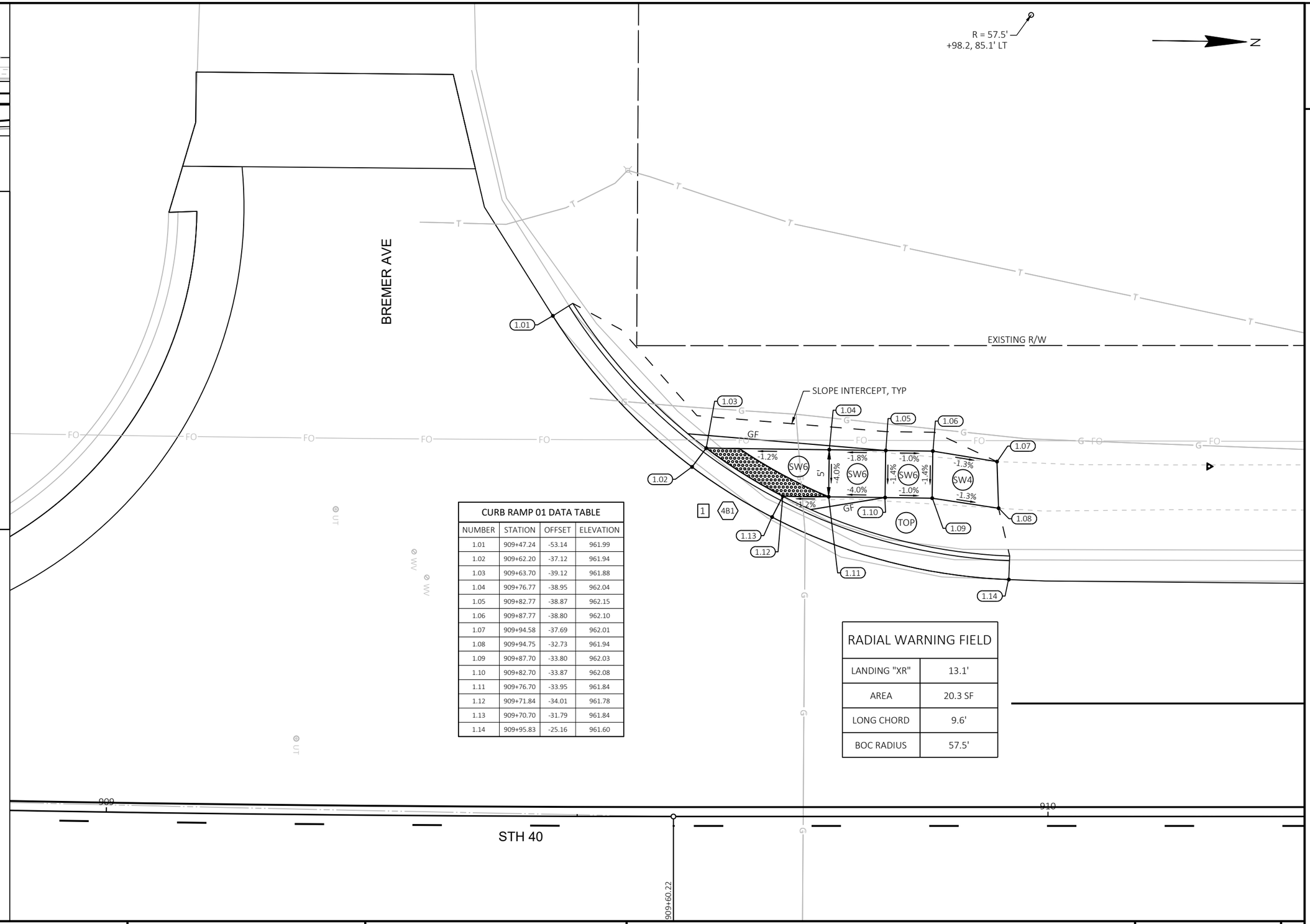
NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.



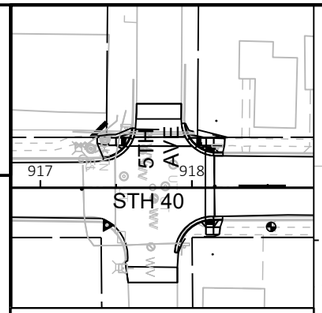
CURB RAMP 01 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
1.01	909+47.24	-53.14	961.99
1.02	909+62.20	-37.12	961.94
1.03	909+63.70	-39.12	961.88
1.04	909+76.77	-38.95	962.04
1.05	909+82.77	-38.87	962.15
1.06	909+87.77	-38.80	962.10
1.07	909+94.58	-37.69	962.01
1.08	909+94.75	-32.73	961.94
1.09	909+87.70	-33.80	962.03
1.10	909+82.70	-33.87	962.08
1.11	909+76.70	-33.95	961.84
1.12	909+71.84	-34.01	961.78
1.13	909+70.70	-31.79	961.84
1.14	909+95.83	-25.16	961.60

RADIAL WARNING FIELD	
LANDING "XR"	13.1'
AREA	20.3 SF
LONG CHORD	9.6'
BOC RADIUS	57.5'

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 64 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021001_CD.DWG
LAYOUT NAME - 01
PLOT DATE : 7/31/2025 3:37 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44



LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.

R = 20.5'
+39.8, 40.6' LT
PROPOSED R/W
EXISTING R/W
5TH AVE
EXISTING R/W
R = 20.5'
+16.1, 44.1' LT
TLE
N
MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
STH 40
EXISTING R/W
5TH AVE
SLOPE INTERCEPT, TYP
R = 22.5'
+13.7, 44.0' RT

CURB RAMP 02 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
2.01	917+62.79	-39.22	949.26
2.02	917+61.16	-32.03	949.34
2.03	917+58.84	-32.97	949.30
2.04	917+55.96	-32.97	949.34
2.05	917+49.96	-32.99	949.70
2.06	917+44.96	-33.00	949.78
2.07	917+37.43	-34.04	950.27
2.08	917+37.55	-29.23	950.21
2.09	917+44.95	-28.00	949.75
2.10	917+49.95	-27.99	949.70
2.11	917+55.95	-27.97	949.34
2.12	917+57.91	-26.43	949.42
2.13	917+41.50	-17.70	949.52

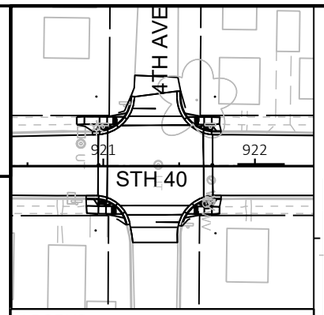
CURB RAMP 03 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
3.01	917+93.14	-42.41	949.10
3.02	917+96.82	-31.51	949.11
3.03	917+98.92	-32.87	949.06
3.04	918+03.56	-32.86	949.08
3.05	918+09.40	-32.85	949.20
3.06	918+14.40	-32.84	949.23
3.07	918+21.74	-32.57	949.38
3.08	918+21.43	-27.65	949.34
3.09	918+14.38	-27.84	949.14
3.10	918+14.37	-23.66	948.94
3.11	918+14.17	-21.17	948.99
3.12	918+20.48	-21.05	948.96
3.13	918+08.62	-22.61	949.04
3.14	918+09.38	-24.72	949.00
3.15	918+09.38	-27.85	949.15
3.16	918+03.55	-27.86	949.03
3.17	918+02.02	-25.88	949.08

CURB RAMP 04 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
4.01	917+88.64	42.45	949.48
4.02	918+08.78	19.49	949.10
4.03	918+09.27	21.94	949.04
4.04	918+09.26	25.99	949.30
4.05	918+09.25	30.99	949.37
4.06	918+14.25	31.00	949.32
4.07	918+18.09	30.80	949.48
4.08	918+18.62	25.94	949.40
4.09	918+14.26	26.00	949.26
4.10	918+14.27	21.48	948.97
4.11	918+14.22	18.98	949.00
4.12	918+20.21	18.85	948.97

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 65	E



LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

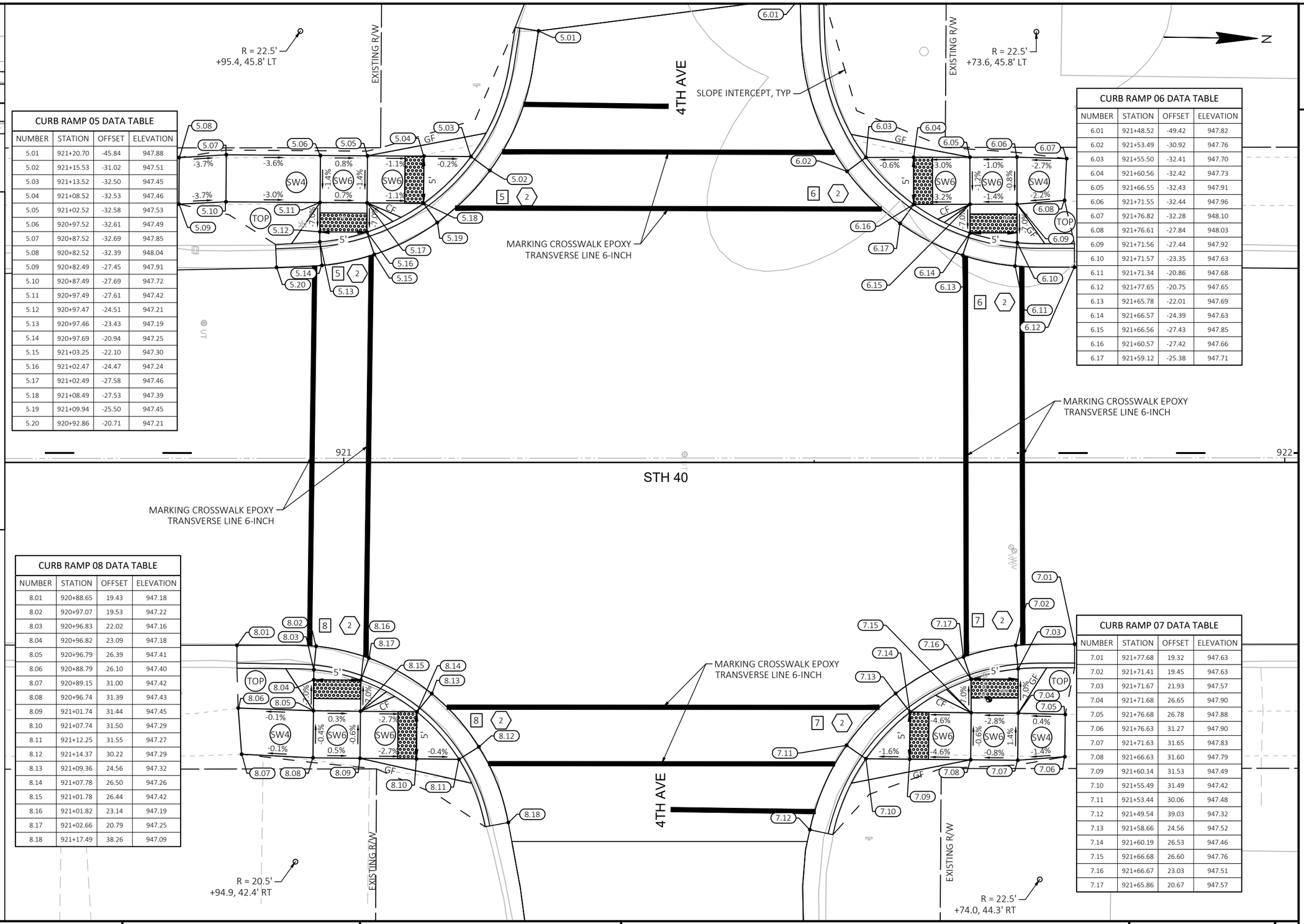
NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.



CURB RAMP 05 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
5.01	921+20.70	-45.84	947.88
5.02	921+15.53	-31.02	947.51
5.03	921+13.52	-32.50	947.45
5.04	921+08.52	-32.53	947.46
5.05	921+02.52	-32.58	947.53
5.06	920+97.52	-32.61	947.49
5.07	920+87.52	-32.69	947.85
5.08	920+82.52	-32.39	948.04
5.09	920+82.49	-27.45	947.91
5.10	920+87.49	-27.69	947.72
5.11	920+97.49	-27.61	947.42
5.12	920+97.47	-24.51	947.21
5.13	920+97.46	-23.43	947.19
5.14	920+97.69	-20.94	947.25
5.15	921+03.25	-22.10	947.30
5.16	921+02.47	-24.47	947.24
5.17	921+02.49	-27.58	947.46
5.18	921+08.49	-27.53	947.39
5.19	921+09.94	-25.50	947.45
5.20	920+92.86	-20.71	947.21

CURB RAMP 06 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
6.01	921+48.52	-49.42	947.82
6.02	921+53.49	-30.92	947.76
6.03	921+55.50	-32.41	947.70
6.04	921+60.56	-32.42	947.73
6.05	921+66.55	-32.43	947.91
6.06	921+71.55	-32.44	947.96
6.07	921+76.82	-32.28	948.10
6.08	921+76.61	-27.84	948.03
6.09	921+71.56	-27.44	947.92
6.10	921+71.57	-23.35	947.63
6.11	921+71.34	-20.86	947.68
6.12	921+77.65	-20.75	947.65
6.13	921+65.78	-22.01	947.69
6.14	921+66.57	-24.39	947.63
6.15	921+66.56	-27.43	947.85
6.16	921+60.57	-27.42	947.66
6.17	921+59.12	-25.38	947.71

CURB RAMP 08 DATA TABLE

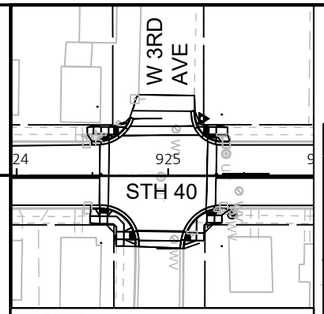
NUMBER	STATION	OFFSET	ELEVATION
8.01	920+88.65	19.43	947.18
8.02	920+97.07	19.53	947.22
8.03	920+96.83	22.02	947.16
8.04	920+96.82	23.09	947.18
8.05	920+96.79	26.39	947.41
8.06	920+88.79	26.10	947.40
8.07	920+89.15	31.00	947.42
8.08	920+96.74	31.39	947.43
8.09	921+01.74	31.44	947.45
8.10	921+07.74	31.50	947.29
8.11	921+12.25	31.55	947.27
8.12	921+14.37	30.22	947.29
8.13	921+09.36	24.56	947.32
8.14	921+07.78	26.50	947.26
8.15	921+01.78	26.44	947.42
8.16	921+01.82	23.14	947.19
8.17	921+02.66	20.79	947.25
8.18	921+17.49	38.26	947.09

CURB RAMP 07 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
7.01	921+77.68	19.32	947.63
7.02	921+71.41	19.45	947.63
7.03	921+71.67	21.93	947.57
7.04	921+71.68	26.65	947.90
7.05	921+76.68	26.78	947.88
7.06	921+76.63	31.27	947.90
7.07	921+71.63	31.65	947.83
7.08	921+66.63	31.60	947.79
7.09	921+60.14	31.53	947.49
7.10	921+55.49	31.49	947.42
7.11	921+53.44	30.06	947.48
7.12	921+49.54	39.03	947.32
7.13	921+58.66	24.56	947.52
7.14	921+60.19	26.53	947.46
7.15	921+66.68	26.60	947.76
7.16	921+66.67	23.03	947.51
7.17	921+65.86	20.67	947.57

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 66	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021001_CD.DWG
LAYOUT NAME - 03
PLOT DATE : 7/31/2025 3:37 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44



LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

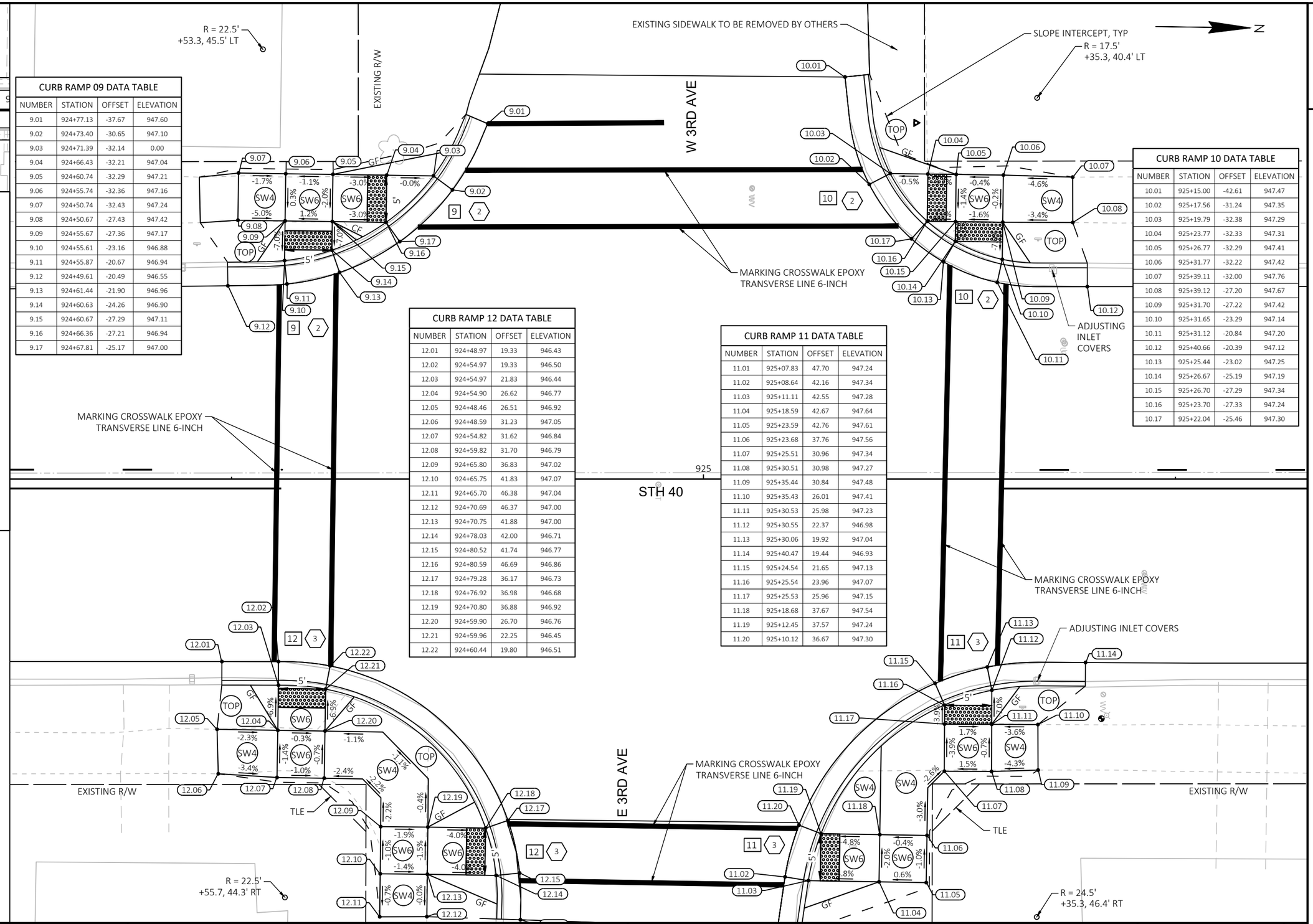
NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.



CURB RAMP 09 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
9.01	924+77.13	-37.67	947.60
9.02	924+73.40	-30.65	947.10
9.03	924+71.39	-32.14	0.00
9.04	924+66.43	-32.21	947.04
9.05	924+60.74	-32.29	947.21
9.06	924+55.74	-32.36	947.16
9.07	924+50.74	-32.43	947.24
9.08	924+50.67	-27.43	947.42
9.09	924+55.67	-27.36	947.17
9.10	924+55.61	-23.16	946.88
9.11	924+55.87	-20.67	946.94
9.12	924+49.61	-20.49	946.55
9.13	924+61.44	-21.90	946.96
9.14	924+60.63	-24.26	946.90
9.15	924+60.67	-27.29	947.11
9.16	924+66.36	-27.21	946.94
9.17	924+67.81	-25.17	947.00

CURB RAMP 10 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
10.01	925+15.00	-42.61	947.47
10.02	925+17.56	-31.24	947.35
10.03	925+19.79	-32.38	947.29
10.04	925+23.77	-32.33	947.31
10.05	925+26.77	-32.29	947.41
10.06	925+31.77	-32.22	947.42
10.07	925+39.11	-32.00	947.76
10.08	925+39.12	-27.20	947.67
10.09	925+31.70	-27.22	947.42
10.10	925+31.65	-23.29	947.14
10.11	925+31.12	-20.84	947.20
10.12	925+40.66	-20.39	947.12
10.13	925+25.44	-23.02	947.25
10.14	925+26.67	-25.19	947.19
10.15	925+26.70	-27.29	947.34
10.16	925+23.70	-27.33	947.24
10.17	925+22.04	-25.46	947.30

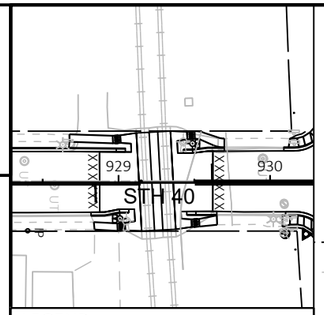
CURB RAMP 12 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
12.01	924+48.97	19.33	946.43
12.02	924+54.97	19.33	946.50
12.03	924+54.97	21.83	946.44
12.04	924+54.90	26.62	946.77
12.05	924+48.46	26.51	946.92
12.06	924+48.59	31.23	947.05
12.07	924+54.82	31.62	946.84
12.08	924+59.82	31.70	946.79
12.09	924+65.80	36.83	947.02
12.10	924+65.75	41.83	947.07
12.11	924+65.70	46.38	947.04
12.12	924+70.69	46.37	947.00
12.13	924+70.75	41.88	947.00
12.14	924+78.03	42.00	946.71
12.15	924+80.52	41.74	946.77
12.16	924+80.59	46.69	946.86
12.17	924+79.28	36.17	946.73
12.18	924+76.92	36.98	946.68
12.19	924+70.80	36.88	946.92
12.20	924+59.90	26.70	946.76
12.21	924+59.96	22.25	946.45
12.22	924+60.44	19.80	946.51

CURB RAMP 11 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
11.01	925+07.83	47.70	947.24
11.02	925+08.64	42.16	947.34
11.03	925+11.11	42.55	947.28
11.04	925+18.59	42.67	947.64
11.05	925+23.59	42.76	947.61
11.06	925+23.68	37.76	947.56
11.07	925+25.51	30.96	947.34
11.08	925+30.51	30.98	947.27
11.09	925+35.44	30.84	947.48
11.10	925+35.43	26.01	947.41
11.11	925+30.53	25.98	947.23
11.12	925+30.55	22.37	946.98
11.13	925+30.06	19.92	947.04
11.14	925+40.47	19.44	946.93
11.15	925+24.54	21.65	947.13
11.16	925+25.54	23.96	947.07
11.17	925+25.53	25.96	947.15
11.18	925+18.68	37.67	947.54
11.19	925+12.45	37.57	947.24
11.20	925+10.12	36.67	947.30

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 67	E



LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

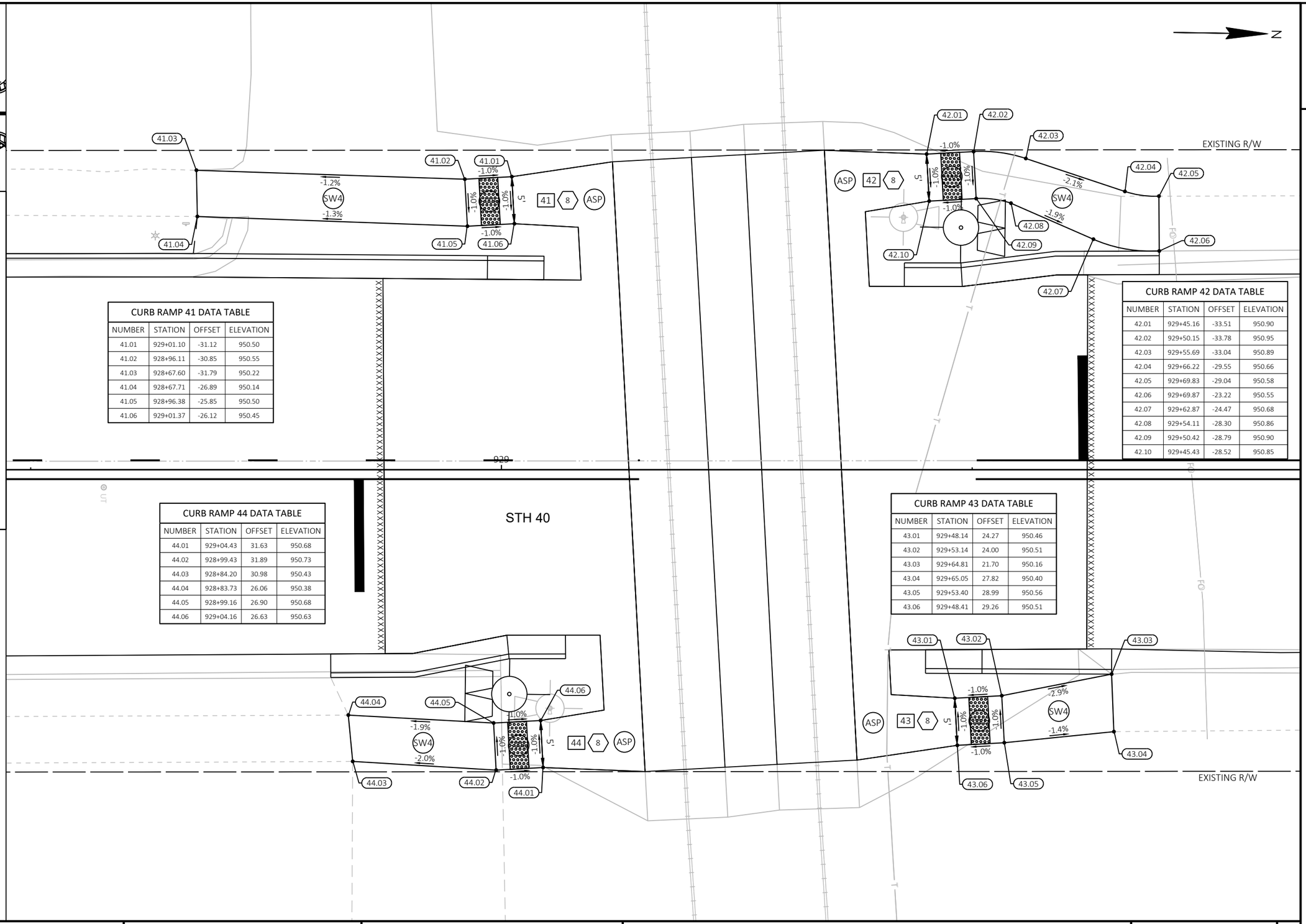
NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.



CURB RAMP 41 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
41.01	929+01.10	-31.12	950.50
41.02	928+96.11	-30.85	950.55
41.03	928+67.60	-31.79	950.22
41.04	928+67.71	-26.89	950.14
41.05	928+96.38	-25.85	950.50
41.06	929+01.37	-26.12	950.45

CURB RAMP 42 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
42.01	929+45.16	-33.51	950.90
42.02	929+50.15	-33.78	950.95
42.03	929+55.69	-33.04	950.89
42.04	929+66.22	-29.55	950.66
42.05	929+69.83	-29.04	950.58
42.06	929+69.87	-23.22	950.55
42.07	929+62.87	-24.47	950.68
42.08	929+54.11	-28.30	950.86
42.09	929+50.42	-28.79	950.90
42.10	929+45.43	-28.52	950.85

CURB RAMP 44 DATA TABLE

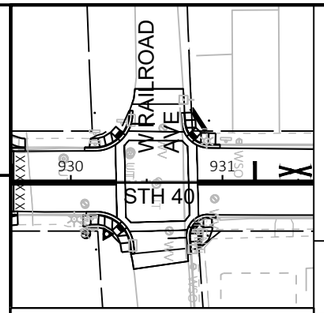
NUMBER	STATION	OFFSET	ELEVATION
44.01	929+04.43	31.63	950.68
44.02	928+99.43	31.89	950.73
44.03	928+84.20	30.98	950.43
44.04	928+83.73	26.06	950.38
44.05	928+99.16	26.90	950.68
44.06	929+04.16	26.63	950.63

CURB RAMP 43 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
43.01	929+48.14	24.27	950.46
43.02	929+53.14	24.00	950.51
43.03	929+64.81	21.70	950.16
43.04	929+65.05	27.82	950.40
43.05	929+53.40	28.99	950.56
43.06	929+48.41	29.26	950.51

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 68	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021001_CD.DWG
LAYOUT NAME - 05 (2)
PLOT DATE : 7/31/2025 3:38 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44



LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.

CURB RAMP 13 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
13.01	930+09.08	-20.87	949.14
13.02	930+32.57	-27.44	948.72
13.03	930+30.72	-29.14	948.67
13.04	930+27.75	-26.89	948.70
13.05	930+23.13	-24.66	948.96
13.06	930+19.09	-23.66	949.13
13.07	930+12.19	-23.39	949.40
13.08	930+13.15	-28.95	949.52
13.09	930+17.85	-29.23	949.29
13.10	930+21.82	-30.31	949.08
13.11	930+26.30	-33.16	948.71
13.12	930+29.67	-36.86	948.68
13.13	930+34.05	-32.87	948.62
13.14	930+35.91	-31.17	948.68
13.15	930+40.91	-47.27	948.39

CURB RAMP 14 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
14.01	930+72.64	-45.88	948.30
14.02	930+76.47	-30.32	948.00
14.03	930+78.25	-32.13	947.95
14.04	930+76.32	-36.13	947.97
14.05	930+75.52	-41.11	948.32
14.06	930+75.13	-46.08	948.50
14.07	930+80.04	-46.23	948.52
14.08	930+82.20	-41.29	948.30
14.09	930+82.34	-36.29	947.95
14.10	930+85.91	-32.79	947.88
14.11	930+90.91	-32.70	948.23
14.12	930+95.53	-32.50	948.29
14.13	930+95.32	-25.26	947.77
14.14	930+90.77	-25.31	947.92
14.15	930+85.79	-26.25	947.87
14.16	930+81.69	-28.49	947.85
14.17	930+79.93	-26.70	947.90
14.18	930+98.38	-22.72	947.33

CURB RAMP 16 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
16.01	930+10.21	19.28	949.32
16.02	930+33.59	25.87	948.72
16.03	930+31.72	27.55	948.66
16.04	930+27.34	24.45	948.69
16.05	930+22.38	22.49	949.06
16.06	930+18.32	21.81	949.27
16.07	930+13.19	21.76	949.52
16.08	930+08.11	21.71	949.62
16.09	930+08.11	28.88	949.75
16.10	930+13.08	27.75	949.62
16.11	930+18.05	27.72	949.37
16.12	930+22.25	28.55	949.16
16.13	930+27.18	31.61	948.75
16.14	930+30.52	35.35	948.67
16.15	930+32.64	40.17	948.99
16.16	930+33.51	45.93	948.95
16.17	930+39.40	45.37	948.84
16.18	930+38.65	39.59	948.88
16.19	930+37.03	34.72	948.64
16.20	930+35.04	31.30	948.62
16.21	930+36.92	29.62	948.68
16.22	930+42.09	46.85	948.64

CURB RAMP 15 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
15.01	930+77.11	47.24	947.86
15.02	930+77.73	28.83	947.75
15.03	930+79.80	30.29	947.69
15.04	930+78.84	33.57	947.73
15.05	930+79.00	39.09	947.91
15.06	930+79.37	44.05	948.13
15.07	930+84.41	43.69	948.16
15.08	930+84.51	38.69	947.94
15.09	930+84.61	33.69	947.76
15.10	930+87.49	29.60	947.71
15.11	930+93.19	29.22	947.68
15.12	930+92.82	23.69	947.77
15.13	930+87.32	24.01	947.65
15.14	930+82.84	26.32	947.63
15.15	930+80.74	24.84	947.68
15.16	930+95.67	21.25	947.39

R = 22.5'
+15.7, 45.9' LT

SLOPE INTERCEPT, TYP

ADJUSTING INLET COVERS

EXISTING R/W

W RAILROAD AVE

R = 15.5'
+91.1, 40.8' LT

PROPOSED R/W

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

930

931

STH 40

ASPHALTIC SURFACE BLEND INTO EXISTING ASPHALT PARKING LOT

R = 22.5'
+16.6, 44.3' RT

EXISTING R/W

ADJUSTING INLET COVERS

E RAILROAD AVE

R = 11.5'
+90.2, 35.1' RT

TLE

PROPOSED R/W

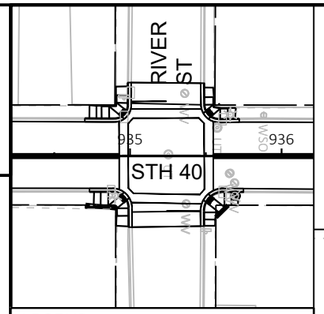
N

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 69	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021001_CD.DWG
LAYOUT NAME - 05

PLOT DATE : 7/31/2025 3:38 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 44



LEGEND

- (SW4) CONCRETE SIDEWALK 4-INCH
- (SW6) CONCRETE SIDEWALK 6-INCH
- (TOP) TOPSOIL, SEED, FERTILIZER, AND EMAT
- (ASP) ASPHALTIC SURFACE
- (1) CONCRETE CURB RAMP TYPE 1
- (2) CONCRETE CURB RAMP TYPE 2
- (3) CONCRETE CURB RAMP TYPE 3
- (4A1) CONCRETE CURB RAMP TYPE 4A1
- (4B1) CONCRETE CURB RAMP TYPE 4B1
- (7A) CONCRETE CURB RAMP TYPE 7A
- (7B) CONCRETE CURB RAMP TYPE 7B
- (8) CONCRETE CURB RAMP TYPE 8
- [X] CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.

CURB RAMP 17 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
17.01	935+00.79	-48.48	943.76
17.02	934+99.51	-28.34	943.85
17.03	934+97.52	-29.96	943.79
17.04	934+98.29	-34.95	943.84
17.05	934+98.29	-39.95	944.09
17.06	934+98.29	-45.94	944.10
17.07	934+90.65	-45.75	944.47
17.08	934+90.66	-40.15	944.19
17.09	934+91.16	-40.14	944.19
17.10	934+91.19	-35.14	943.84
17.11	934+90.96	-32.81	943.87
17.12	934+86.18	-32.75	943.94
17.13	934+81.18	-32.69	944.29
17.14	934+81.17	-33.18	944.29
17.15	934+77.81	-33.12	944.46
17.16	934+73.29	-33.55	944.69
17.17	934+73.21	-25.02	944.54
17.18	934+77.88	-24.97	944.42
17.19	934+81.28	-24.93	944.29
17.20	934+86.28	-24.96	943.94
17.21	934+94.18	-26.21	943.86
17.22	934+96.21	-24.55	943.92
17.23	934+70.18	-22.56	944.22

CURB RAMP 18 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
18.01	935+46.58	-48.02	943.95
18.02	935+48.30	-28.17	943.92
18.03	935+50.23	-29.86	943.86
18.04	935+49.25	-33.77	943.90
18.05	935+49.19	-38.77	944.25
18.06	935+49.12	-45.19	944.34
18.07	935+54.84	-45.13	944.56
18.08	935+55.28	-38.91	944.25
18.09	935+54.78	-38.89	944.25
18.10	935+54.83	-33.89	943.90
18.11	935+54.99	-32.10	943.90
18.12	935+59.48	-31.32	943.90
18.13	935+64.48	-31.23	944.15
18.14	935+64.48	-31.73	944.15
18.15	935+69.84	-31.69	944.39
18.16	935+69.28	-24.78	944.12
18.17	935+64.41	-24.69	944.09
18.18	935+59.41	-24.60	943.89
18.19	935+53.55	-26.13	943.83
18.20	935+51.60	-24.41	943.89
18.21	935+72.08	-22.33	943.71

CURB RAMP 20 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
20.01	934+73.24	21.33	944.06
20.02	934+96.10	23.99	944.05
20.03	934+94.12	25.65	943.99
20.04	934+85.70	23.88	944.08
20.05	934+80.70	23.86	944.33
20.06	934+76.24	23.84	944.47
20.07	934+76.05	32.56	944.66
20.08	934+80.59	33.21	944.43
20.09	934+80.60	32.71	944.43
20.10	934+85.60	32.81	944.08
20.11	934+91.36	32.92	944.10
20.12	934+91.41	34.47	944.10
20.13	934+91.56	39.47	944.45
20.14	934+91.06	39.48	944.45
20.15	934+90.86	45.97	944.73
20.16	934+98.86	46.41	944.45
20.17	934+98.82	39.39	944.34
20.18	934+98.80	34.39	944.09
20.19	934+97.51	29.35	944.04
20.20	934+99.45	27.72	944.10
20.21	935+01.36	46.92	943.99

CURB RAMP 19 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
19.01	935+74.83	21.47	943.77
19.02	935+51.58	25.12	943.75
19.03	935+53.56	26.72	943.69
19.04	935+62.19	23.87	943.78
19.05	935+66.80	23.91	943.98
19.06	935+71.66	23.95	944.04
19.07	935+71.14	32.40	944.39
19.08	935+66.93	32.40	944.35
19.09	935+64.71	32.40	944.39
19.10	935+62.35	33.79	944.47
19.11	935+58.61	37.21	944.47
19.12	935+56.25	41.89	944.44
19.13	935+56.31	40.86	944.44
19.14	935+56.16	45.99	944.43
19.15	935+49.09	45.98	944.17
19.16	935+49.05	41.88	943.78
19.17	935+49.01	37.19	943.83
19.18	935+50.41	30.61	943.76
19.19	935+48.43	29.01	943.82
19.20	935+46.59	46.25	943.82

RIVER ST

R = 8.5'
+89.8, 33.5' LT
PEDESTRIAN CURB

ADJUSTING INLET COVERS

INLET COVER TYPE HM REQ'D

MARKING CROSSWALK EPOXY
TRANSVERSE LINE 6-INCH

STH 40

935

R = 9.5'
+58.7, 34.1' LT
PEDESTRIAN CURB

EXISTING R/W

ADJUSTING INLET COVERS

MARKING CROSSWALK EPOXY
TRANSVERSE LINE 6-INCH

TLE

PROPOSED R/W

SLOPE INTERCEPT, TYP

PEDESTRIAN CURB

R = 10.5'
+88.3, 34.4' RT

RIVER ST

PROPOSED R/W

R = 12.5'
+61.5, 36.4' RT

EXISTING R/W

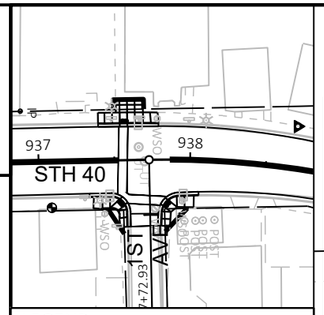
N

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 70	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021001_CD.DWG
LAYOUT NAME - 06

PLOT DATE : 7/31/2025 3:38 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 44



LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.

CURB RAMP 21 DATA TABLE

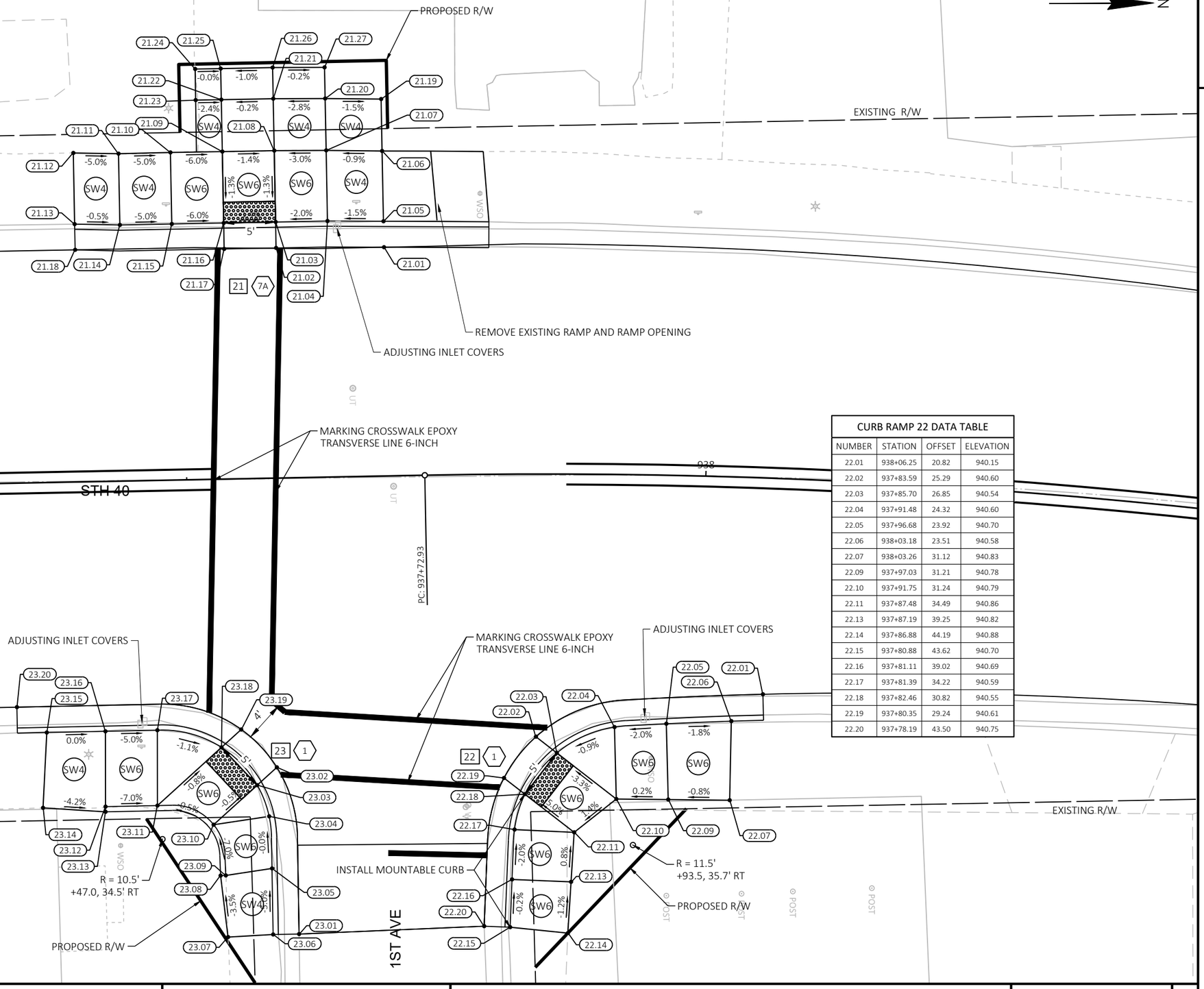
NUMBER	STATION	OFFSET	ELEVATION
21.01	937+69.42	-22.02	940.89
21.02	937+59.04	-22.15	941.16
21.03	937+59.04	-24.65	941.11
21.04	937+64.04	-24.65	941.21
21.05	937+69.42	-24.52	941.29
21.06	937+69.42	-31.29	941.40
21.07	937+64.04	-31.44	941.35
21.08	937+59.04	-31.52	941.20
21.09	937+54.04	-31.52	941.27
21.10	937+49.04	-31.54	941.57
21.11	937+44.04	-31.52	941.82
21.12	937+39.69	-31.67	942.04
21.13	937+39.69	-24.82	941.75
21.14	937+44.04	-24.65	941.73
21.15	937+49.04	-24.65	941.48
21.16	937+54.04	-24.65	941.18
21.17	937+54.04	-22.15	941.23
21.18	937+39.69	-22.34	941.51
21.19	937+69.42	-36.29	941.80
21.20	937+64.04	-36.44	941.88
21.21	937+59.04	-36.52	941.74
21.22	937+54.04	-36.52	941.73
21.23	937+51.57	-36.53	941.79
21.24	937+51.58	-39.52	942.01
21.25	937+54.04	-39.52	942.01
21.26	937+59.04	-39.52	942.06
21.27	937+64.04	-39.44	942.05

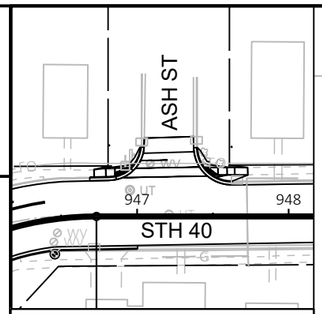
CURB RAMP 23 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
23.01	937+59.97	43.93	941.55
23.02	937+58.14	27.84	941.23
23.03	937+56.22	29.52	941.17
23.04	937+57.30	32.55	941.42
23.05	937+57.49	37.56	941.42
23.06	937+57.47	43.92	941.74
23.07	937+53.13	44.09	941.95
23.08	937+52.52	38.16	941.74
23.09	937+53.02	38.15	941.55
23.10	937+51.95	33.25	941.20
23.11	937+46.57	31.30	941.17
23.12	937+41.57	31.30	941.52
23.13	937+41.56	31.80	941.52
23.14	937+35.56	31.31	941.78
23.15	937+36.05	24.06	941.42
23.16	937+41.70	24.05	941.42
23.17	937+46.70	24.05	941.17
23.18	937+52.85	25.83	941.10
23.19	937+54.78	24.13	941.16
23.20	937+33.22	21.57	941.65

CURB RAMP 22 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
22.01	938+06.25	20.82	940.15
22.02	937+83.59	25.29	940.60
22.03	937+85.70	26.85	940.54
22.04	937+91.48	24.32	940.60
22.05	937+96.68	23.92	940.70
22.06	938+03.18	23.51	940.58
22.07	938+03.26	31.12	940.83
22.09	937+97.03	31.21	940.78
22.10	937+91.75	31.24	940.79
22.11	937+87.48	34.49	940.86
22.13	937+87.19	39.25	940.82
22.14	937+86.88	44.19	940.88
22.15	937+80.88	43.62	940.70
22.16	937+81.11	39.02	940.69
22.17	937+81.39	34.22	940.59
22.18	937+82.46	30.82	940.55
22.19	937+80.35	29.24	940.61
22.20	937+78.19	43.50	940.75





LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

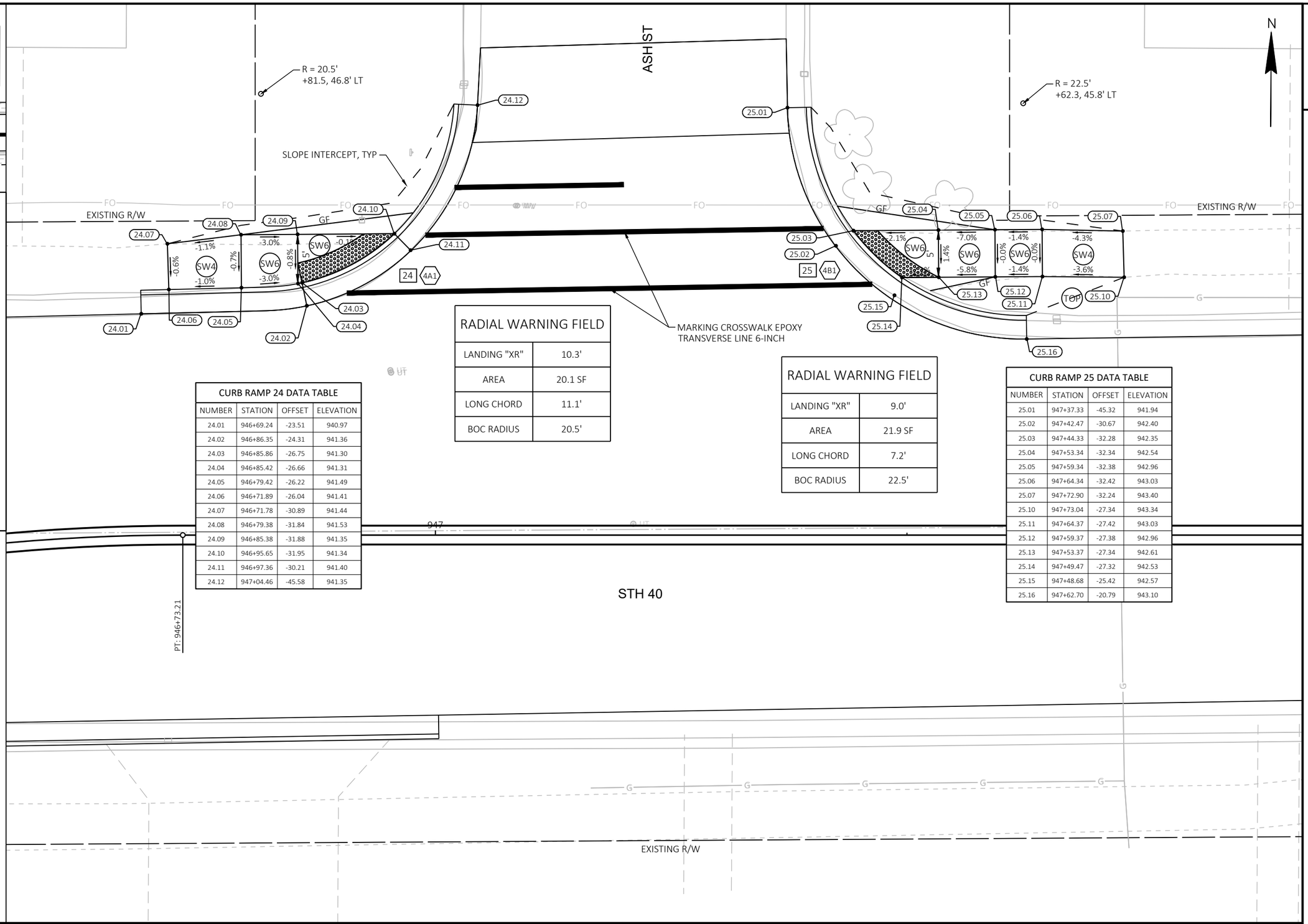
NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.



RADIAL WARNING FIELD	
LANDING "XR"	10.3'
AREA	20.1 SF
LONG CHORD	11.1'
BOC RADIUS	20.5'

RADIAL WARNING FIELD	
LANDING "XR"	9.0'
AREA	21.9 SF
LONG CHORD	7.2'
BOC RADIUS	22.5'

CURB RAMP 24 DATA TABLE

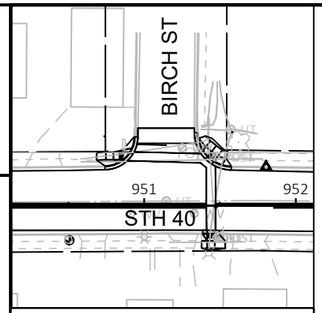
NUMBER	STATION	OFFSET	ELEVATION
24.01	946+69.24	-23.51	940.97
24.02	946+86.35	-24.31	941.36
24.03	946+85.86	-26.75	941.30
24.04	946+85.42	-26.66	941.31
24.05	946+79.42	-26.22	941.49
24.06	946+71.89	-26.04	941.41
24.07	946+71.78	-30.89	941.44
24.08	946+79.38	-31.84	941.53
24.09	946+85.38	-31.88	941.35
24.10	946+95.65	-31.95	941.34
24.11	946+97.36	-30.21	941.40
24.12	947+04.46	-45.58	941.35

CURB RAMP 25 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
25.01	947+37.33	-45.32	941.94
25.02	947+42.47	-30.67	942.40
25.03	947+44.33	-32.28	942.35
25.04	947+53.34	-32.34	942.54
25.05	947+59.34	-32.38	942.96
25.06	947+64.34	-32.42	943.03
25.07	947+72.90	-32.24	943.40
25.10	947+73.04	-27.34	943.34
25.11	947+64.37	-27.42	943.03
25.12	947+59.37	-27.38	942.96
25.13	947+53.37	-27.34	942.61
25.14	947+49.47	-27.32	942.53
25.15	947+48.68	-25.42	942.57
25.16	947+62.70	-20.79	943.10

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 72	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021001_CD.DWG
LAYOUT NAME - 08
PLOT DATE : 7/31/2025 3:39 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44



LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

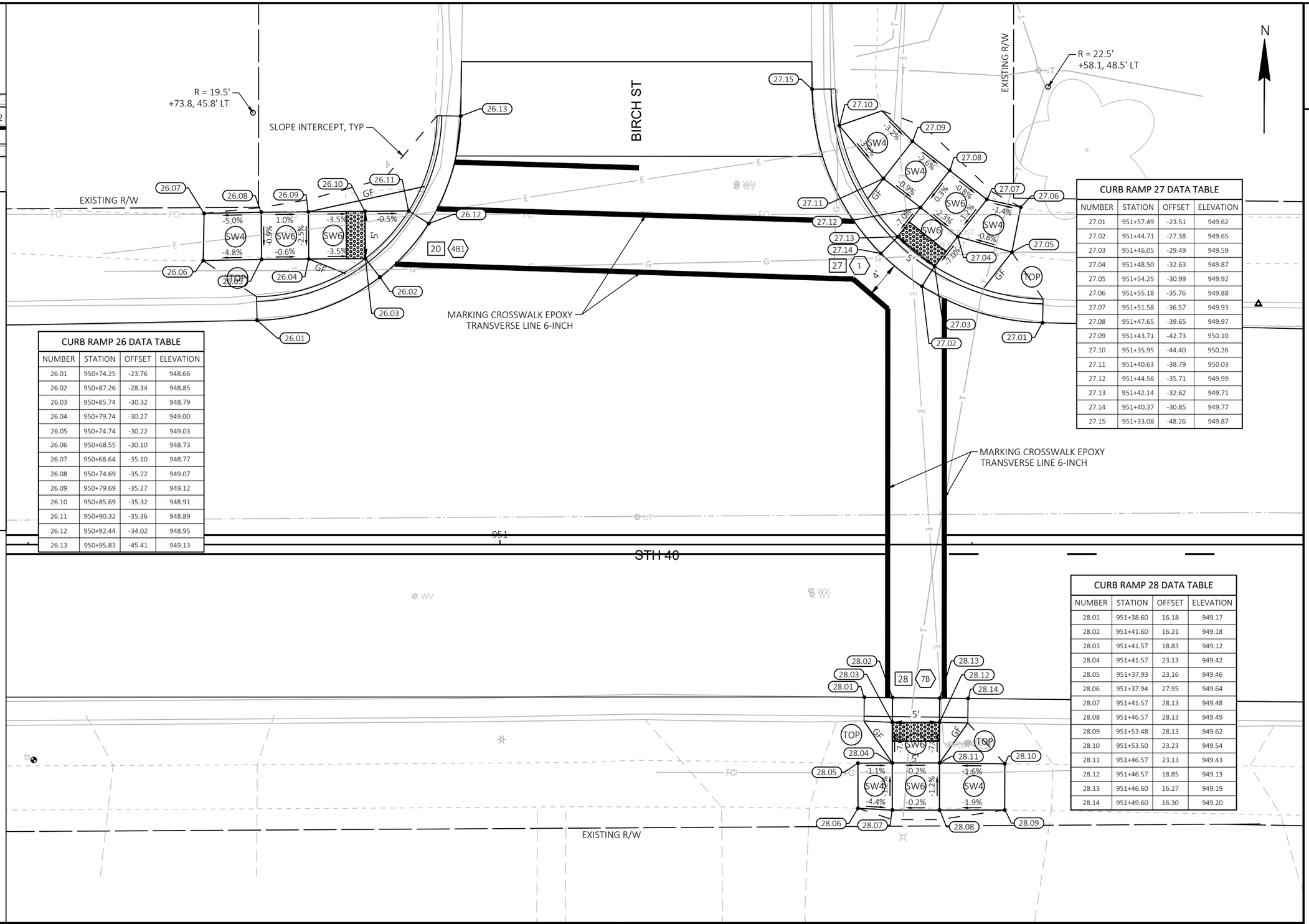
NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.



CURB RAMP 26 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
26.01	950+74.25	-23.76	948.66
26.02	950+87.26	-28.34	948.85
26.03	950+85.74	-30.32	948.79
26.04	950+79.74	-30.27	949.00
26.05	950+74.74	-30.22	949.03
26.06	950+68.55	-30.10	948.73
26.07	950+68.64	-35.10	948.77
26.08	950+74.69	-35.22	949.07
26.09	950+79.69	-35.27	949.12
26.10	950+85.69	-35.32	948.91
26.11	950+90.32	-35.36	948.89
26.12	950+92.44	-34.02	948.95
26.13	950+95.83	-45.41	949.13

CURB RAMP 27 DATA TABLE

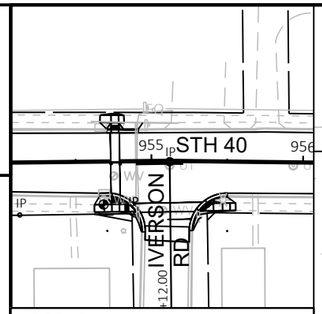
NUMBER	STATION	OFFSET	ELEVATION
27.01	951+57.49	-23.51	949.62
27.02	951+44.71	-27.38	949.65
27.03	951+46.05	-29.49	949.59
27.04	951+48.50	-32.63	949.87
27.05	951+54.25	-30.99	949.92
27.06	951+55.18	-35.76	949.88
27.07	951+51.58	-36.57	949.93
27.08	951+47.65	-39.65	949.97
27.09	951+43.71	-42.73	950.10
27.10	951+35.95	-44.40	950.26
27.11	951+40.63	-38.79	950.03
27.12	951+44.56	-35.71	949.99
27.13	951+42.14	-32.62	949.71
27.14	951+40.37	-30.85	949.77
27.15	951+33.08	-48.26	949.87

CURB RAMP 28 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
28.01	951+38.60	16.18	949.17
28.02	951+41.60	16.21	949.18
28.03	951+41.57	18.83	949.12
28.04	951+41.57	23.13	949.42
28.05	951+37.93	23.16	949.46
28.06	951+37.94	27.95	949.64
28.07	951+41.57	28.13	949.48
28.08	951+46.57	28.13	949.49
28.09	951+53.48	28.13	949.62
28.10	951+53.50	23.23	949.54
28.11	951+46.57	23.13	949.43
28.12	951+46.57	18.85	949.13
28.13	951+46.60	16.27	949.19
28.14	951+49.60	16.30	949.20

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 73	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021001_CD.DWG
LAYOUT NAME - 09
PLOT DATE : 7/31/2025 3:39 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44



LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.

CURB RAMP 29 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
29.01	954+70.64	-19.45	947.36
29.02	954+73.64	-19.47	947.43
29.03	954+73.63	-22.04	947.37
29.04	954+73.63	-26.13	947.66
29.05	954+66.30	-26.36	947.91
29.06	954+66.49	-31.25	948.06
29.07	954+73.64	-31.13	947.70
29.08	954+78.64	-31.12	947.68
29.09	954+82.06	-30.93	947.85
29.10	954+82.36	-26.08	947.73
29.11	954+78.63	-26.12	947.62
29.12	954+78.63	-21.93	947.33
29.13	954+78.54	-19.40	947.39
29.14	954+81.62	-19.32	947.25

CURB RAMP 30 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
30.01	954+65.30	20.23	947.32
30.02	954+73.94	20.48	947.18
30.03	954+73.58	22.96	947.12
30.04	954+73.57	27.67	947.34
30.05	954+68.57	27.66	947.33
30.06	954+62.04	27.89	947.51
30.07	954+62.05	32.63	947.56
30.08	954+68.57	32.66	947.36
30.09	954+73.57	32.67	947.18
30.10	954+78.57	32.67	947.12
30.11	954+84.45	32.68	946.71
30.12	954+89.06	32.69	946.64
30.13	954+91.13	31.30	946.70
30.14	954+95.37	46.10	946.12
30.15	954+86.18	25.71	946.82
30.16	954+84.46	27.68	946.76
30.17	954+78.57	27.67	947.17
30.18	954+78.58	24.28	947.01
30.19	954+79.49	21.95	947.07

CURB RAMP 31 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
31.01	955+25.54	45.24	945.85
31.02	955+30.18	30.80	946.20
31.03	955+32.21	32.25	946.14
31.04	955+41.35	32.04	946.28
31.05	955+47.34	31.90	946.43
31.06	955+52.34	31.78	946.38
31.07	955+56.05	31.56	946.36
31.08	955+55.86	26.70	946.25
31.09	955+52.23	26.78	946.34
31.10	955+47.23	26.90	946.39
31.11	955+41.23	27.04	946.20
31.12	955+37.27	27.13	946.14
31.13	955+35.80	25.11	946.20
31.14	955+50.26	20.31	945.89

RADIAL WARNING FIELD

LANDING "XR"	9.1'
AREA	15.4 SF
LONG CHORD	7.2'
BOC RADIUS	22.5'

EXISTING R/W

REMOVE EXISTING CURB RAMP

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

ADJUSTING INLET COVERS

SLOPE INTERCEPT, TYP

TLE

R = 22.5'
+70.4, 45.2' RT

R = 22.5'
+50.5, 45.3' RT

STH 40

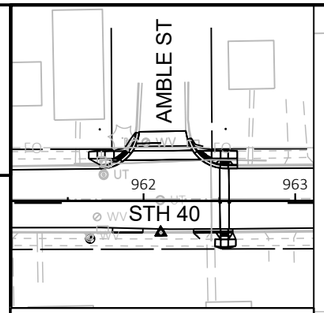
IVERSON RD

PI: 955+12.00

N

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 74	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021001_CD.DWG
LAYOUT NAME - 10
PLOT DATE : 7/31/2025 3:39 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44



LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

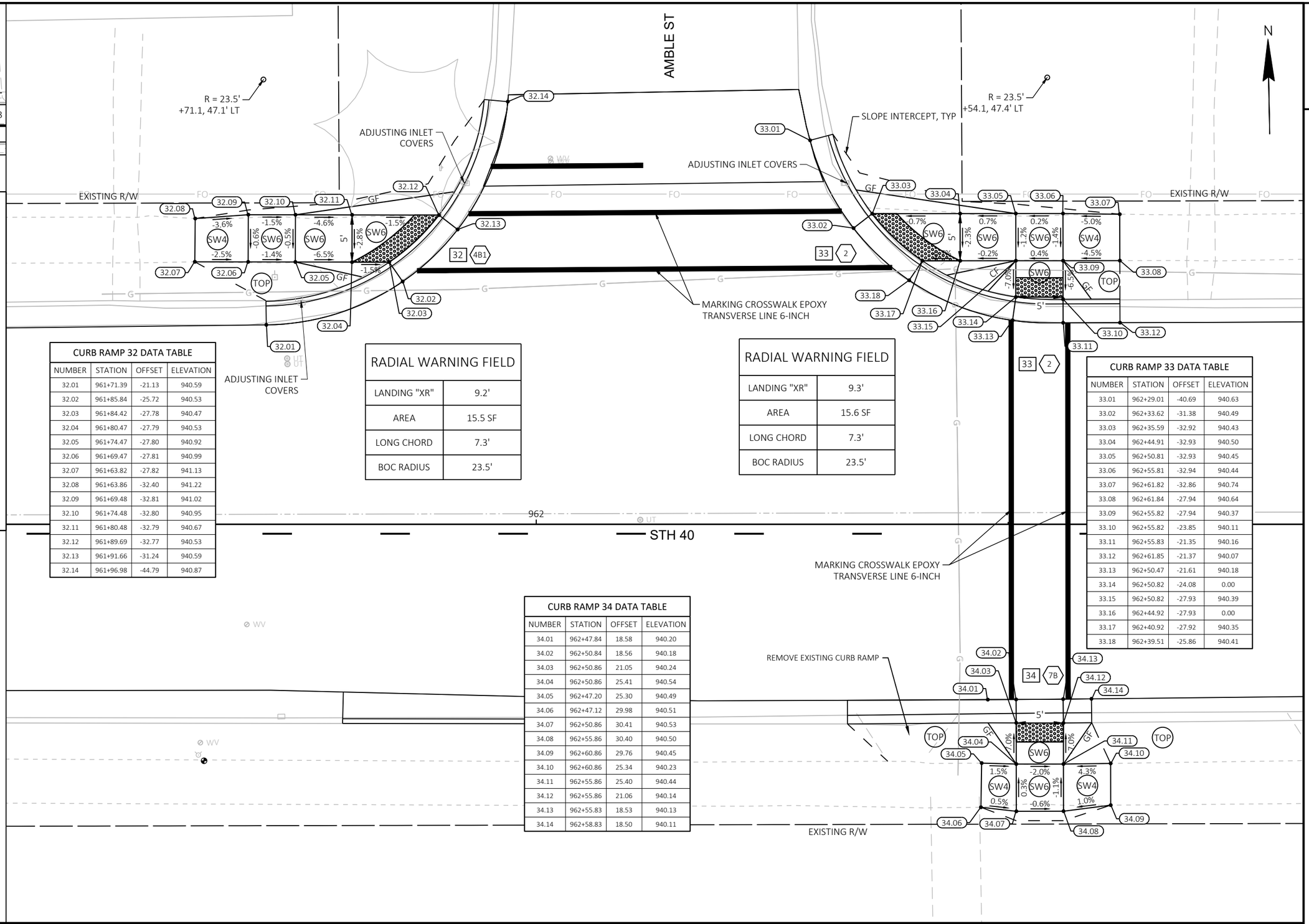
NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.



CURB RAMP 32 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
32.01	961+71.39	-21.13	940.59
32.02	961+85.84	-25.72	940.53
32.03	961+84.42	-27.78	940.47
32.04	961+80.47	-27.79	940.53
32.05	961+74.47	-27.80	940.92
32.06	961+69.47	-27.81	940.99
32.07	961+63.82	-27.82	941.13
32.08	961+63.86	-32.40	941.22
32.09	961+69.48	-32.81	941.02
32.10	961+74.48	-32.80	940.95
32.11	961+80.48	-32.79	940.67
32.12	961+89.69	-32.77	940.53
32.13	961+91.66	-31.24	940.59
32.14	961+96.98	-44.79	940.87

RADIAL WARNING FIELD

LANDING "XR"	9.2'
AREA	15.5 SF
LONG CHORD	7.3'
BOC RADIUS	23.5'

RADIAL WARNING FIELD

LANDING "XR"	9.3'
AREA	15.6 SF
LONG CHORD	7.3'
BOC RADIUS	23.5'

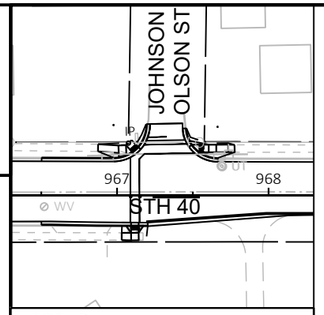
CURB RAMP 33 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
33.01	962+29.01	-40.69	940.63
33.02	962+33.62	-31.38	940.49
33.03	962+35.59	-32.92	940.43
33.04	962+44.91	-32.93	940.50
33.05	962+50.81	-32.93	940.45
33.06	962+55.81	-32.94	940.44
33.07	962+61.82	-32.86	940.74
33.08	962+61.84	-27.94	940.64
33.09	962+55.82	-27.94	940.37
33.10	962+55.82	-23.85	940.11
33.11	962+55.83	-21.35	940.16
33.12	962+61.85	-21.37	940.07
33.13	962+50.47	-21.61	940.18
33.14	962+50.82	-24.08	0.00
33.15	962+50.82	-27.93	940.39
33.16	962+44.92	-27.93	0.00
33.17	962+40.92	-27.92	940.35
33.18	962+39.51	-25.86	940.41

CURB RAMP 34 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
34.01	962+47.84	18.58	940.20
34.02	962+50.84	18.56	940.18
34.03	962+50.86	21.05	940.24
34.04	962+50.86	25.41	940.54
34.05	962+47.20	25.30	940.49
34.06	962+47.12	29.98	940.51
34.07	962+50.86	30.41	940.53
34.08	962+55.86	30.40	940.50
34.09	962+60.86	29.76	940.45
34.10	962+60.86	25.34	940.23
34.11	962+55.86	25.40	940.44
34.12	962+55.86	21.06	940.14
34.13	962+55.83	18.53	940.13
34.14	962+58.83	18.50	940.11

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 75	E



LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

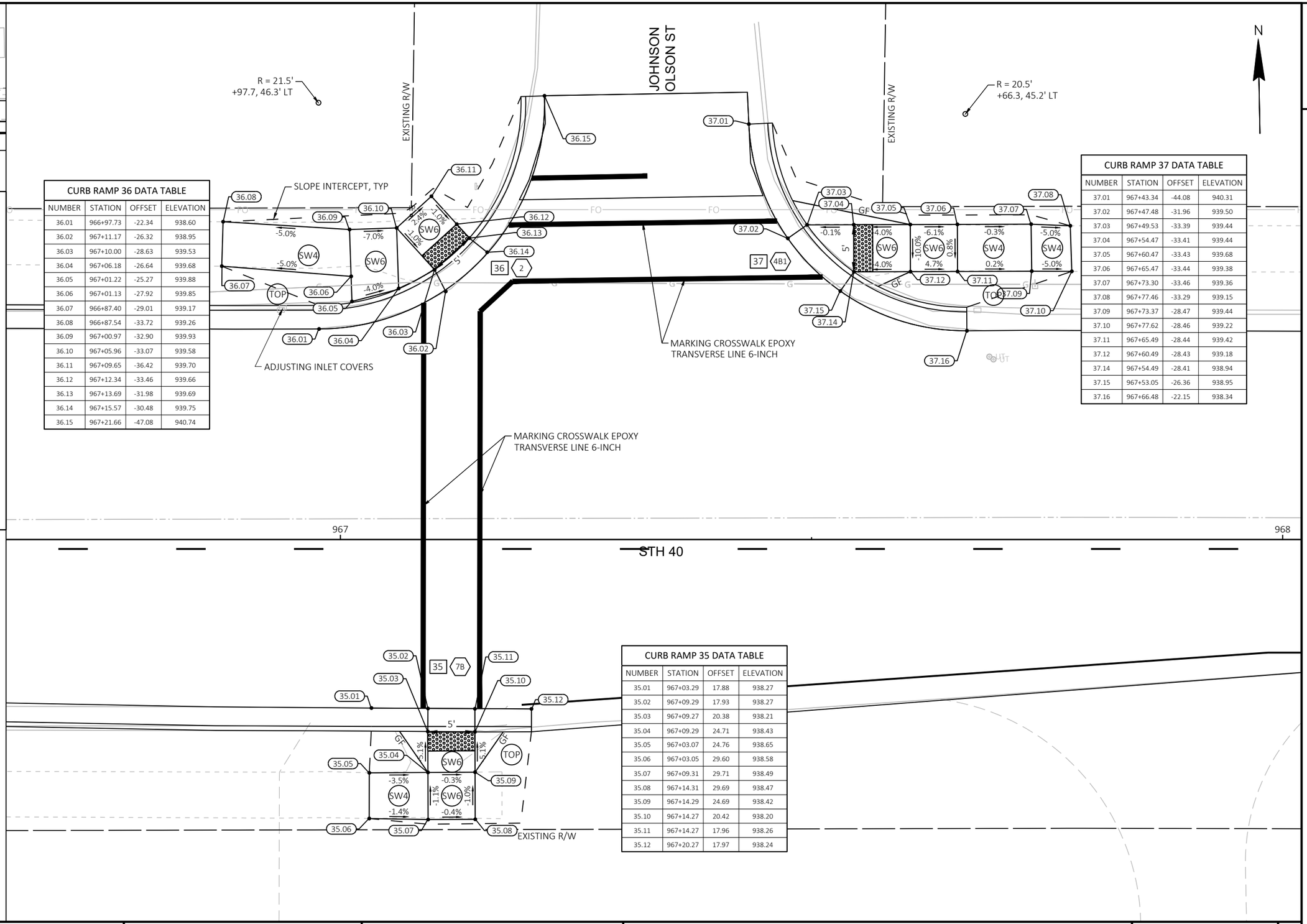
NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.



CURB RAMP 36 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
36.01	966+97.73	-22.34	938.60
36.02	967+11.17	-26.32	938.95
36.03	967+10.00	-28.63	939.53
36.04	967+06.18	-26.64	939.68
36.05	967+01.22	-25.27	939.88
36.06	967+01.13	-27.92	939.85
36.07	966+87.40	-29.01	939.17
36.08	966+87.54	-33.72	939.26
36.09	967+00.97	-32.90	939.93
36.10	967+05.96	-33.07	939.58
36.11	967+09.65	-36.42	939.70
36.12	967+12.34	-33.46	939.66
36.13	967+13.69	-31.98	939.69
36.14	967+15.57	-30.48	939.75
36.15	967+21.66	-47.08	940.74

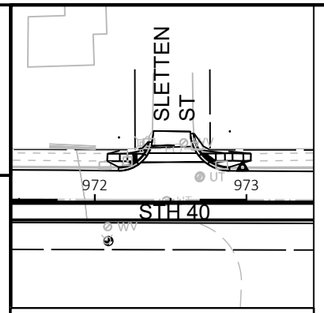
CURB RAMP 37 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
37.01	967+43.34	-44.08	940.31
37.02	967+47.48	-31.96	939.50
37.03	967+49.53	-33.39	939.44
37.04	967+54.47	-33.41	939.44
37.05	967+60.47	-33.43	939.68
37.06	967+65.47	-33.44	939.38
37.07	967+73.30	-33.46	939.36
37.08	967+77.46	-33.29	939.15
37.09	967+73.37	-28.47	939.44
37.10	967+77.62	-28.46	939.22
37.11	967+65.49	-28.44	939.42
37.12	967+60.49	-28.43	939.18
37.14	967+54.49	-28.41	938.94
37.15	967+53.05	-26.36	938.95
37.16	967+66.48	-22.15	938.34

CURB RAMP 35 DATA TABLE

NUMBER	STATION	OFFSET	ELEVATION
35.01	967+03.29	17.88	938.27
35.02	967+09.29	17.93	938.27
35.03	967+09.27	20.38	938.21
35.04	967+09.29	24.71	938.43
35.05	967+03.07	24.76	938.65
35.06	967+03.05	29.60	938.58
35.07	967+09.31	29.71	938.49
35.08	967+14.31	29.69	938.47
35.09	967+14.29	24.69	938.42
35.10	967+14.27	20.42	938.20
35.11	967+14.27	17.96	938.26
35.12	967+20.27	17.97	938.24

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 76	E



LEGEND

- SW4 CONCRETE SIDEWALK 4-INCH
- SW6 CONCRETE SIDEWALK 6-INCH
- TOP TOPSOIL, SEED, FERTILIZER, AND EMAT
- ASP ASPHALTIC SURFACE
- 1 CONCRETE CURB RAMP TYPE 1
- 2 CONCRETE CURB RAMP TYPE 2
- 3 CONCRETE CURB RAMP TYPE 3
- 4A1 CONCRETE CURB RAMP TYPE 4A1
- 4B1 CONCRETE CURB RAMP TYPE 4B1
- 7A CONCRETE CURB RAMP TYPE 7A
- 7B CONCRETE CURB RAMP TYPE 7B
- 8 CONCRETE CURB RAMP TYPE 8
- X CURB RAMP NUMBER
- GF GRADED FLARE
- CF CONCRETE FLARE

NOTES:

REFER TO STANDARD DETAIL DRAWINGS "CURB RAMPS" FOR JOINT LOCATIONS AND COMPLETE CURB RAMP REQUIREMENTS.

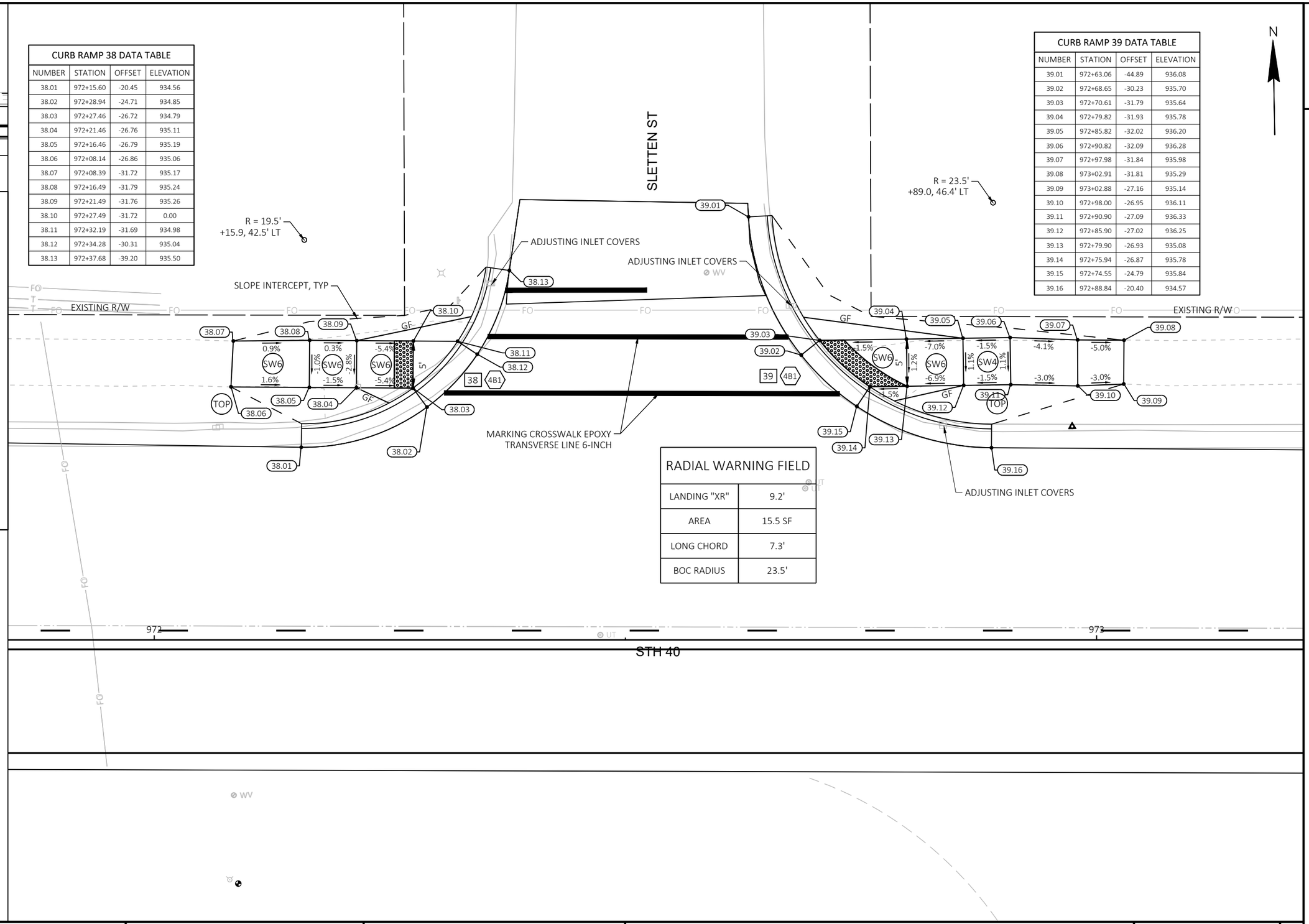
CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.

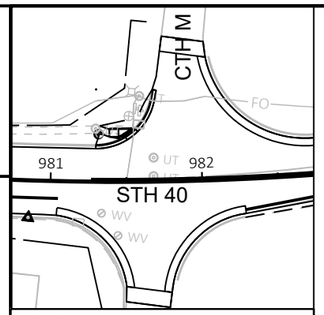
CURB RAMP 38 DATA TABLE			
NUMBER	STATION	OFFSET	ELEVATION
38.01	972+15.60	-20.45	934.56
38.02	972+28.94	-24.71	934.85
38.03	972+27.46	-26.72	934.79
38.04	972+21.46	-26.76	935.11
38.05	972+16.46	-26.79	935.19
38.06	972+08.14	-26.86	935.06
38.07	972+08.39	-31.72	935.17
38.08	972+16.49	-31.79	935.24
38.09	972+21.49	-31.76	935.26
38.10	972+27.49	-31.72	0.00
38.11	972+32.19	-31.69	934.98
38.12	972+34.28	-30.31	935.04
38.13	972+37.68	-39.20	935.50

CURB RAMP 39 DATA TABLE			
NUMBER	STATION	OFFSET	ELEVATION
39.01	972+63.06	-44.89	936.08
39.02	972+68.65	-30.23	935.70
39.03	972+70.61	-31.79	935.64
39.04	972+79.82	-31.93	935.78
39.05	972+85.82	-32.02	936.20
39.06	972+90.82	-32.09	936.28
39.07	972+97.98	-31.84	935.98
39.08	973+02.91	-31.81	935.29
39.09	973+02.88	-27.16	935.14
39.10	972+98.00	-26.95	936.11
39.11	972+90.90	-27.09	936.33
39.12	972+85.90	-27.02	936.25
39.13	972+79.90	-26.93	935.08
39.14	972+75.94	-26.87	935.78
39.15	972+74.55	-24.79	935.84
39.16	972+88.84	-20.40	934.57



RADIAL WARNING FIELD	
LANDING "XR"	9.2'
AREA	15.5 SF
LONG CHORD	7.3'
BOC RADIUS	23.5'

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 77	E



LEGEND

SW4	CONCRETE SIDEWALK 4-INCH
SW6	CONCRETE SIDEWALK 6-INCH
TOP	TOPSOIL, SEED, FERTILIZER, AND EMAT
ASP	ASPHALTIC SURFACE
1	CONCRETE CURB RAMP TYPE 1
2	CONCRETE CURB RAMP TYPE 2
3	CONCRETE CURB RAMP TYPE 3
4A1	CONCRETE CURB RAMP TYPE 4A1
4B1	CONCRETE CURB RAMP TYPE 4B1
7A	CONCRETE CURB RAMP TYPE 7A
7B	CONCRETE CURB RAMP TYPE 7B
8	CONCRETE CURB RAMP TYPE 8
X	CURB RAMP NUMBER
GF	GRADED FLARE
CF	CONCRETE FLARE

NOTES:

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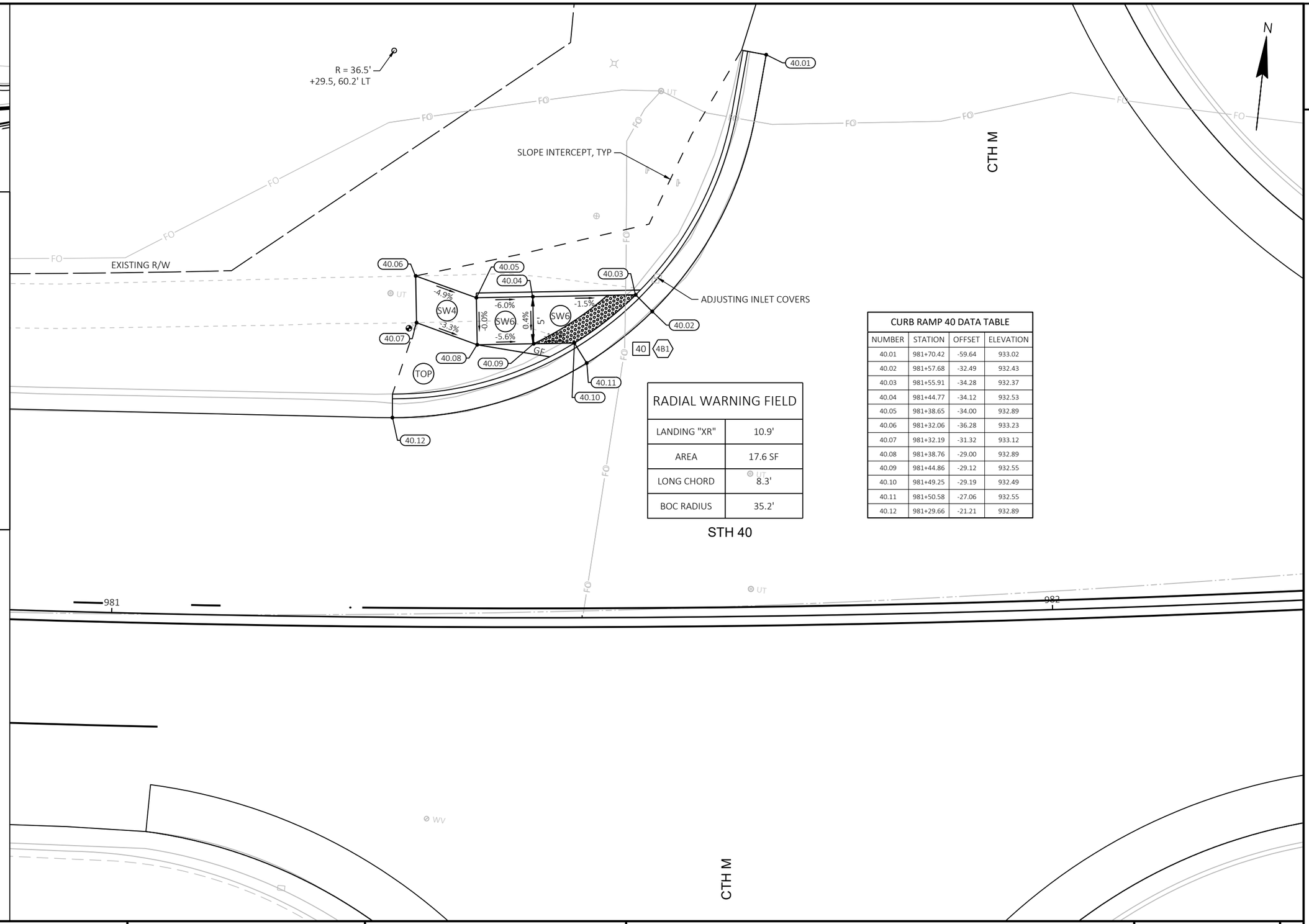
CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.

THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION.

ALL STATION OFFSET INFORMATION REFERENCE STH 40 R/L.



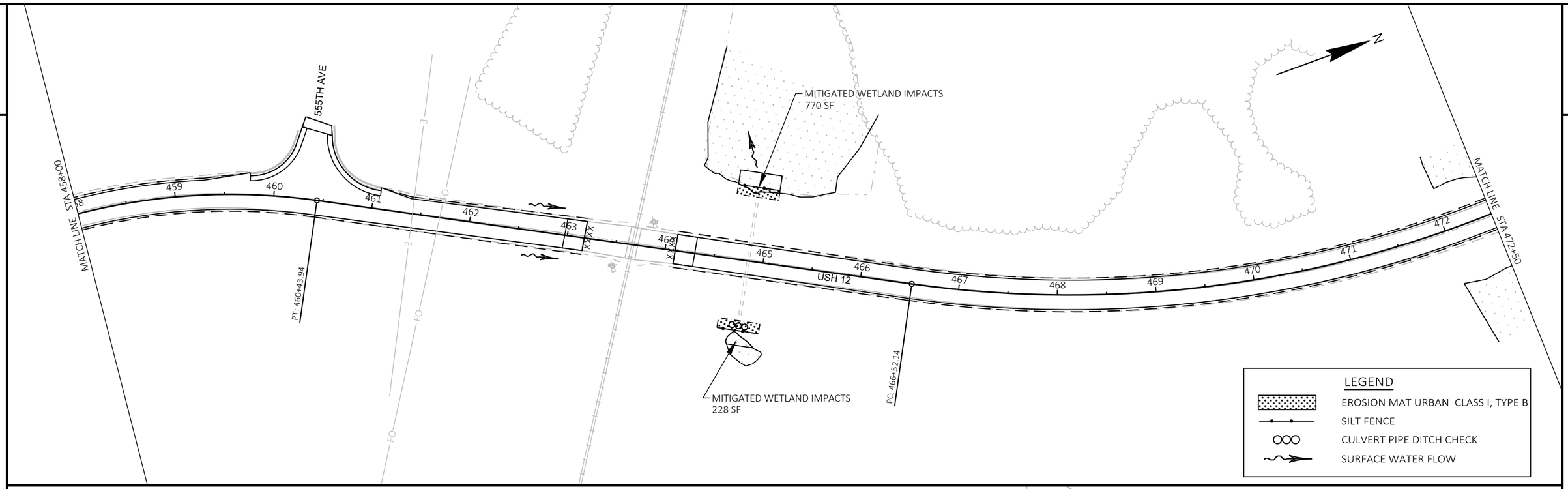
RADIAL WARNING FIELD	
LANDING "XR"	10.9'
AREA	17.6 SF
LONG CHORD	8.3'
BOC RADIUS	35.2'

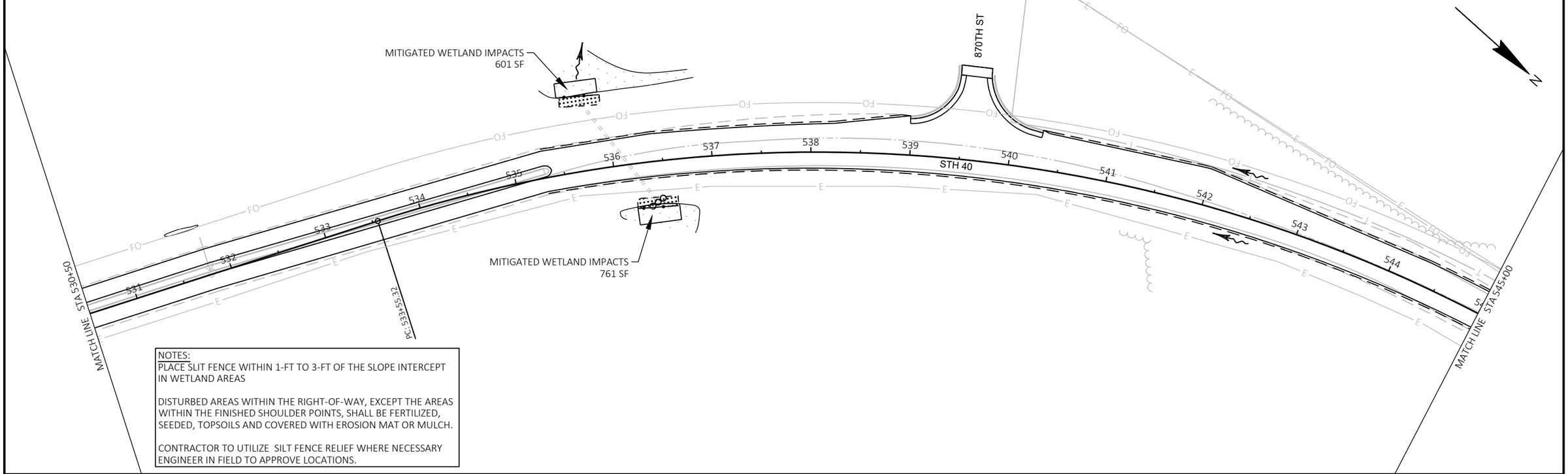
CURB RAMP 40 DATA TABLE			
NUMBER	STATION	OFFSET	ELEVATION
40.01	981+70.42	-59.64	933.02
40.02	981+57.68	-32.49	932.43
40.03	981+55.91	-34.28	932.37
40.04	981+44.77	-34.12	932.53
40.05	981+38.65	-34.00	932.89
40.06	981+32.06	-36.28	933.23
40.07	981+32.19	-31.32	933.12
40.08	981+38.76	-29.00	932.89
40.09	981+44.86	-29.12	932.55
40.10	981+49.25	-29.19	932.49
40.11	981+50.58	-27.06	932.55
40.12	981+29.66	-21.21	932.89

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CURB RAMP DETAILS	SHEET 78	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\021001_CD\021001_CD.DWG
LAYOUT NAME - 14
PLOT DATE : 7/31/2025 3:40 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 44

2



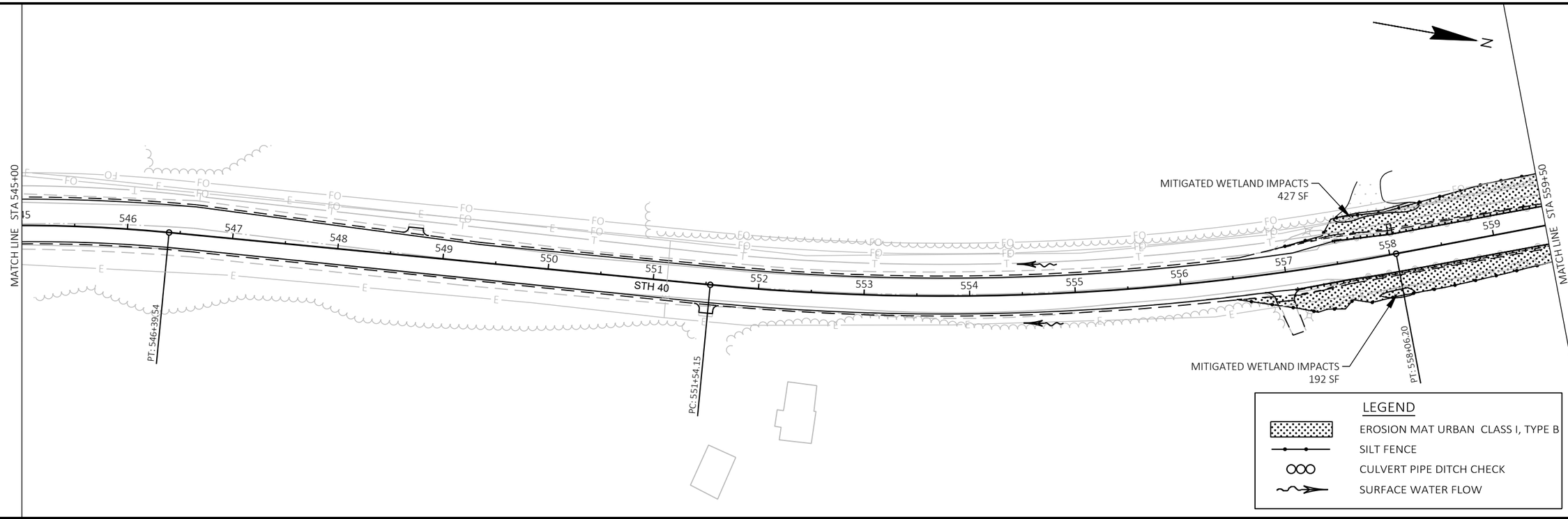


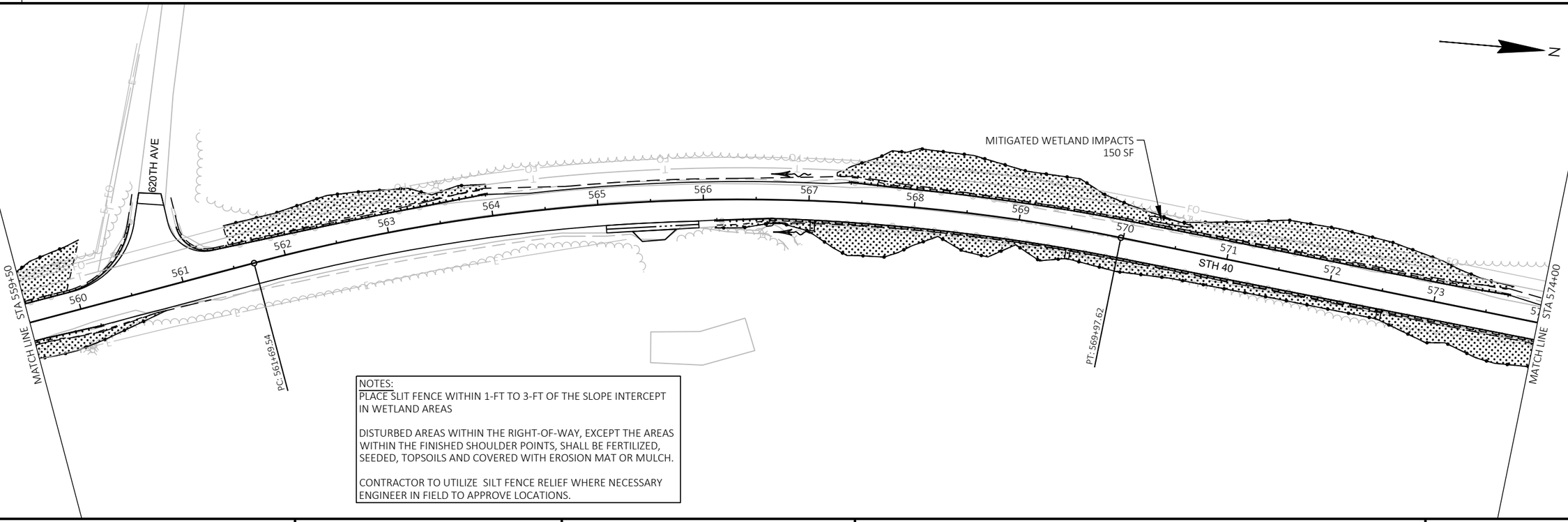
NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 79	E



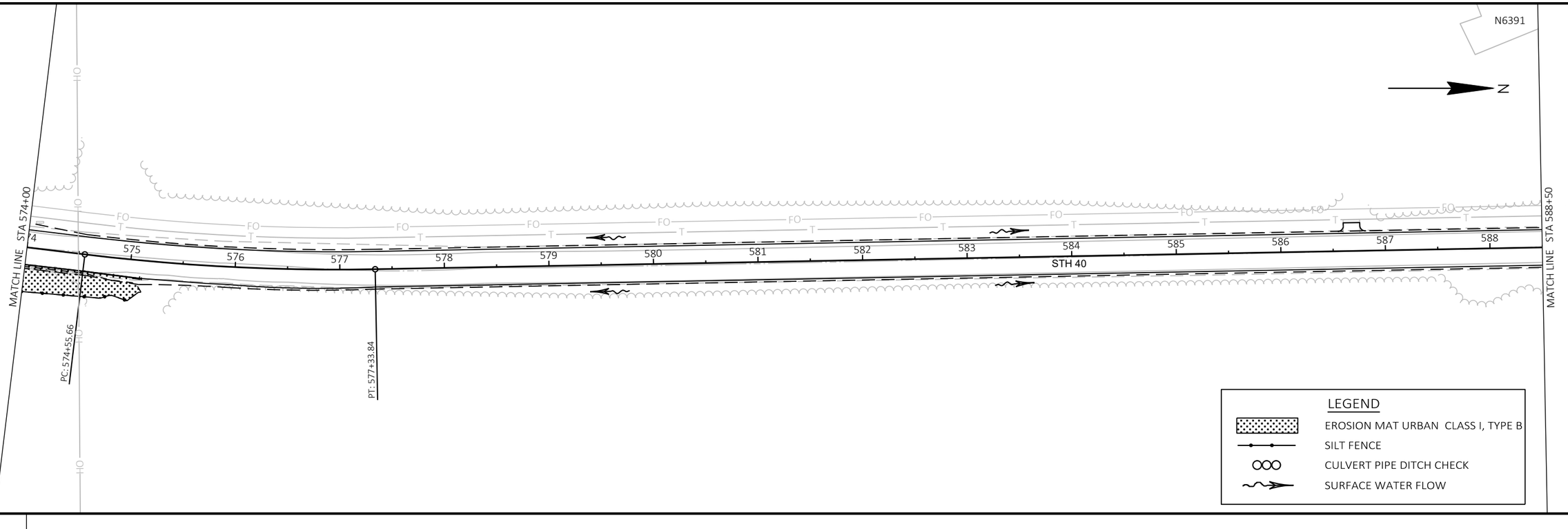


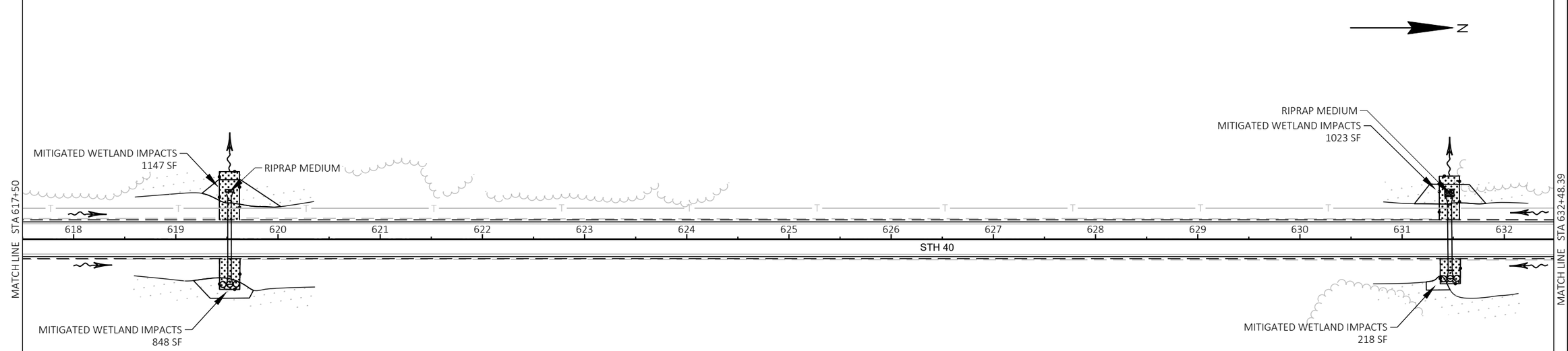
NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 80	E



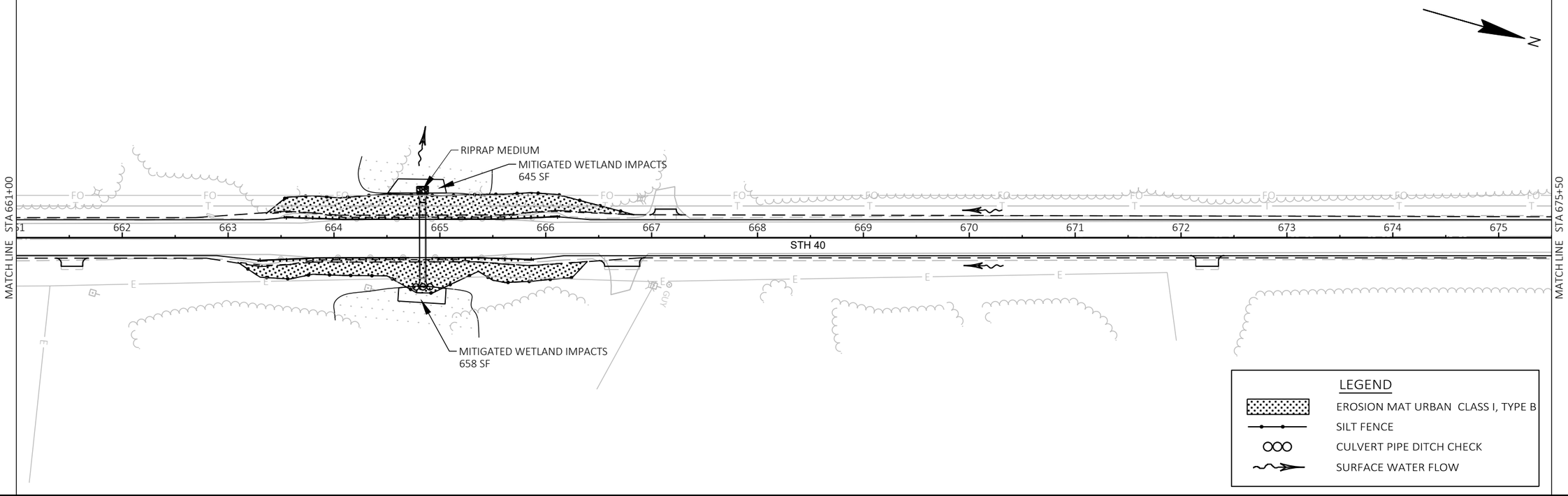


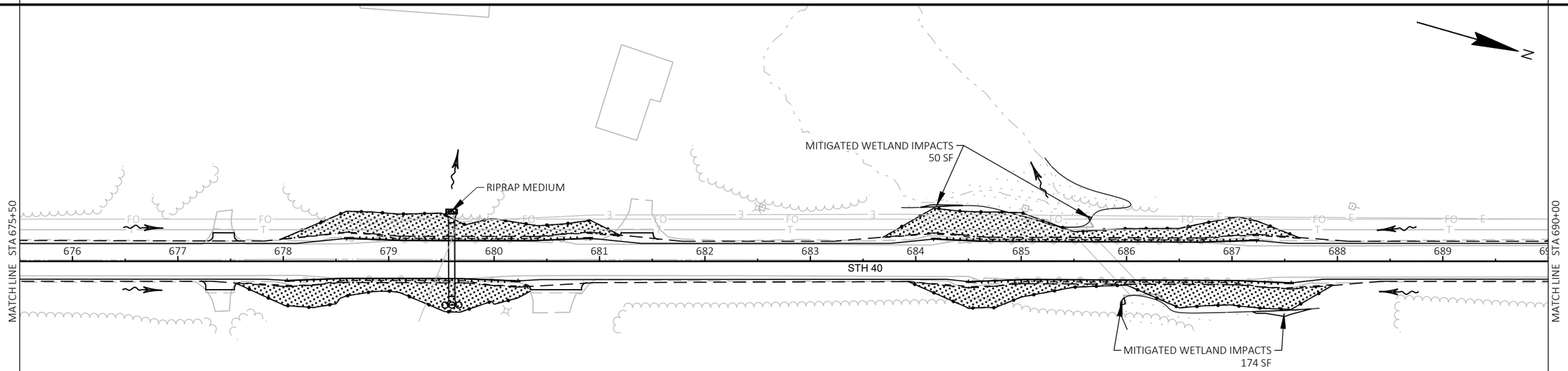
NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 81	E



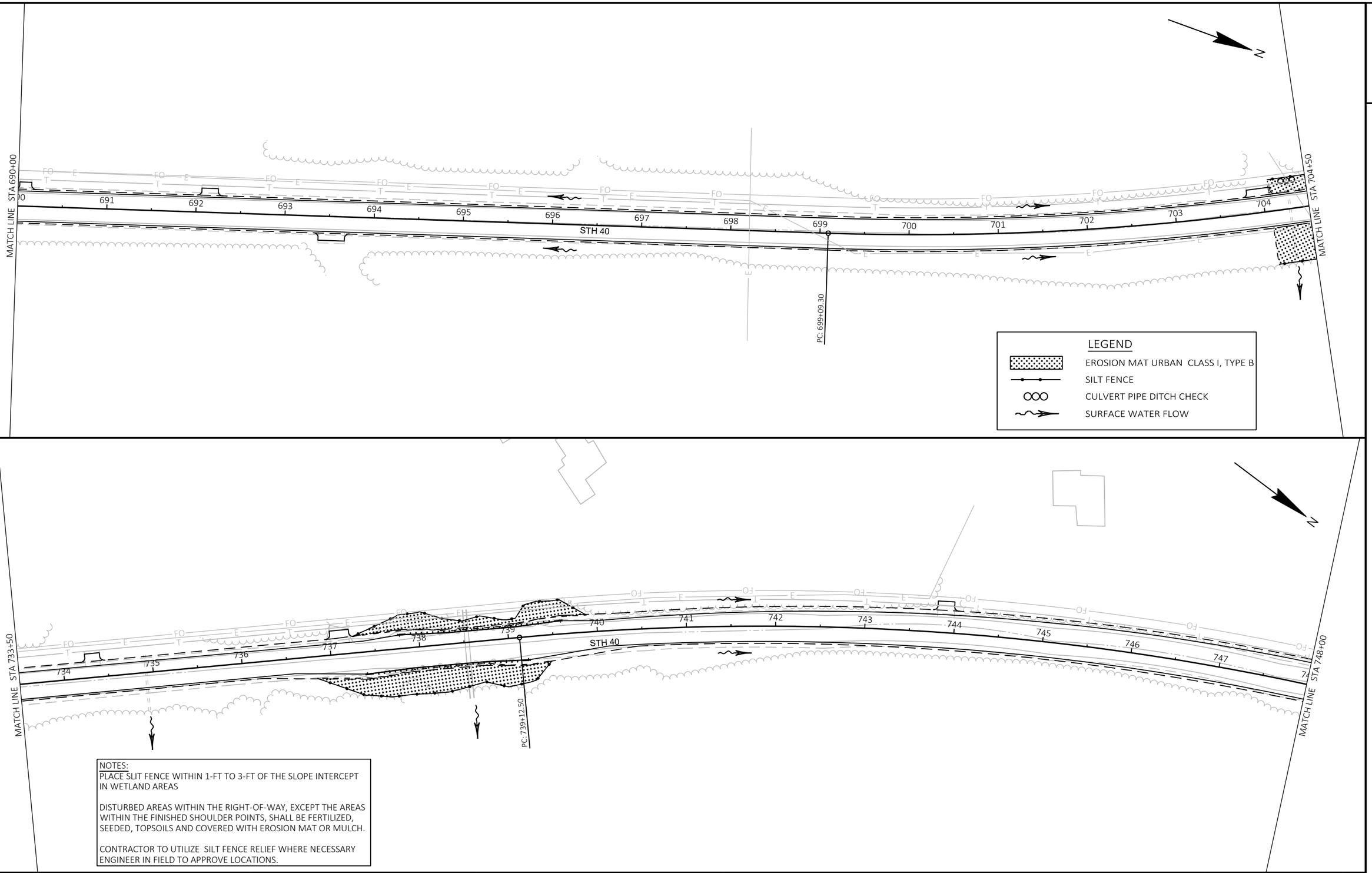


NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 82	E



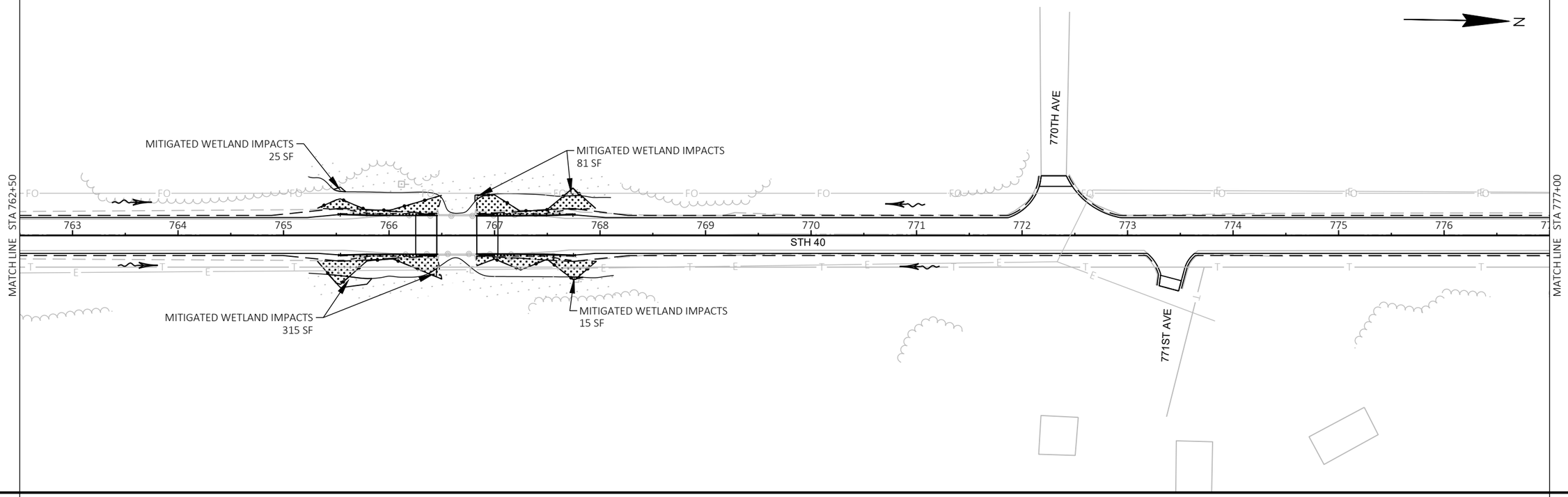
NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

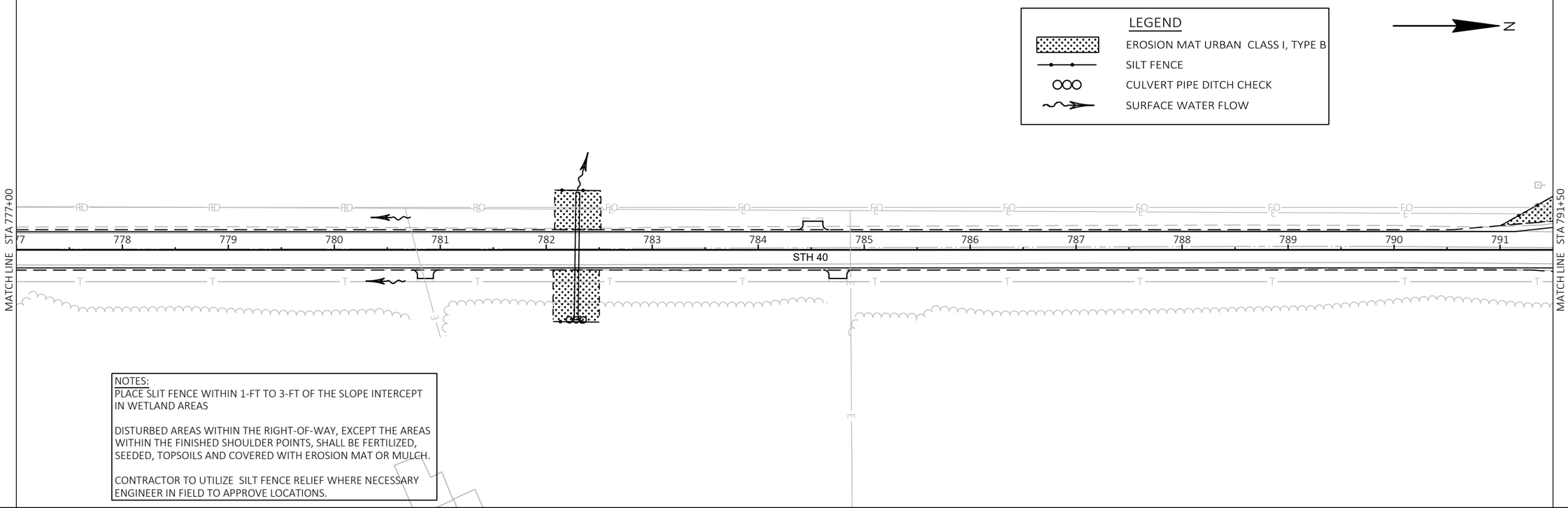
DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 83	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\022001_EC\022001_EC.DWG
LAYOUT NAME - 12
PLOT DATE : 7/31/2025 4:19 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



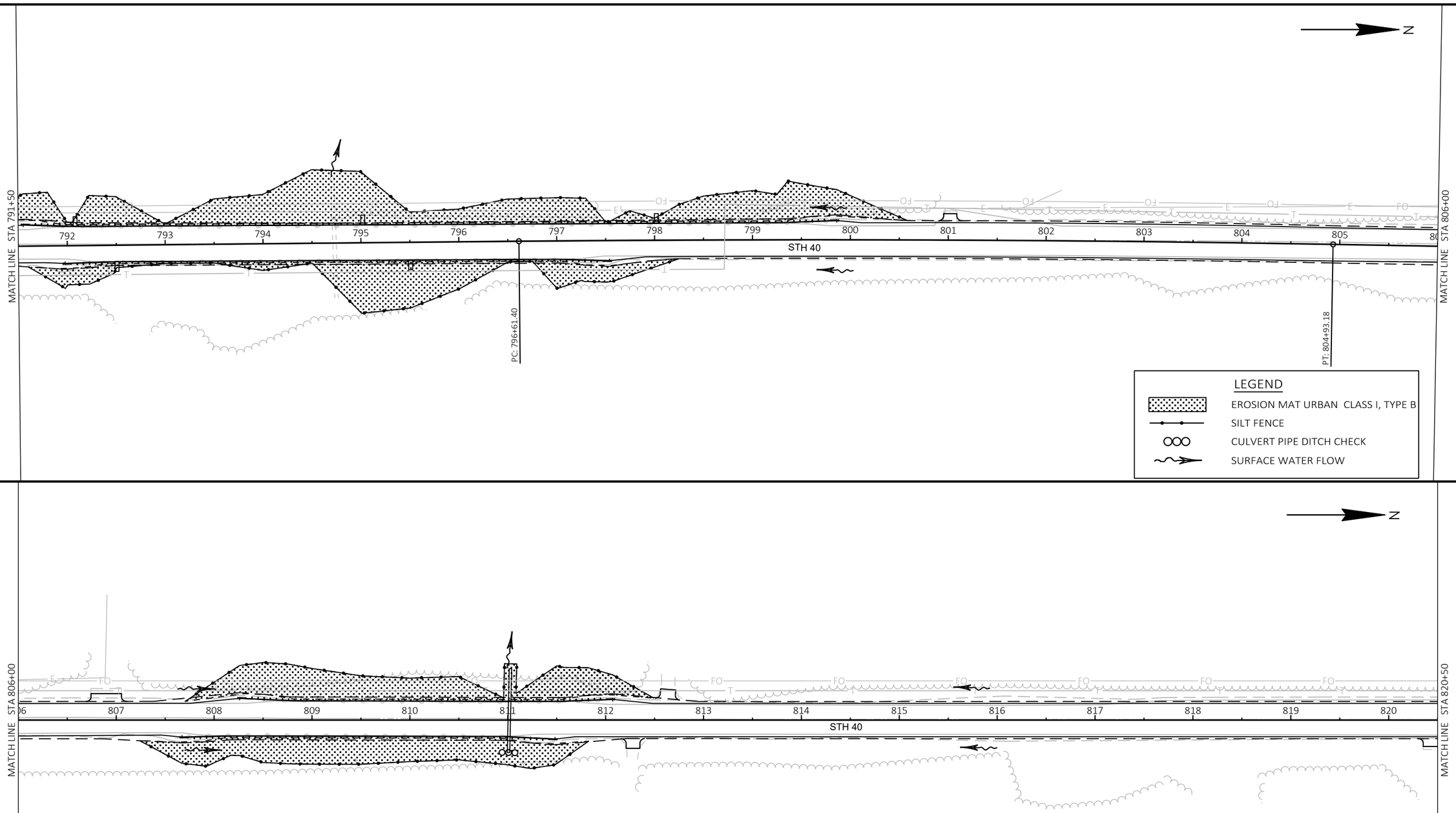


NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 84	E



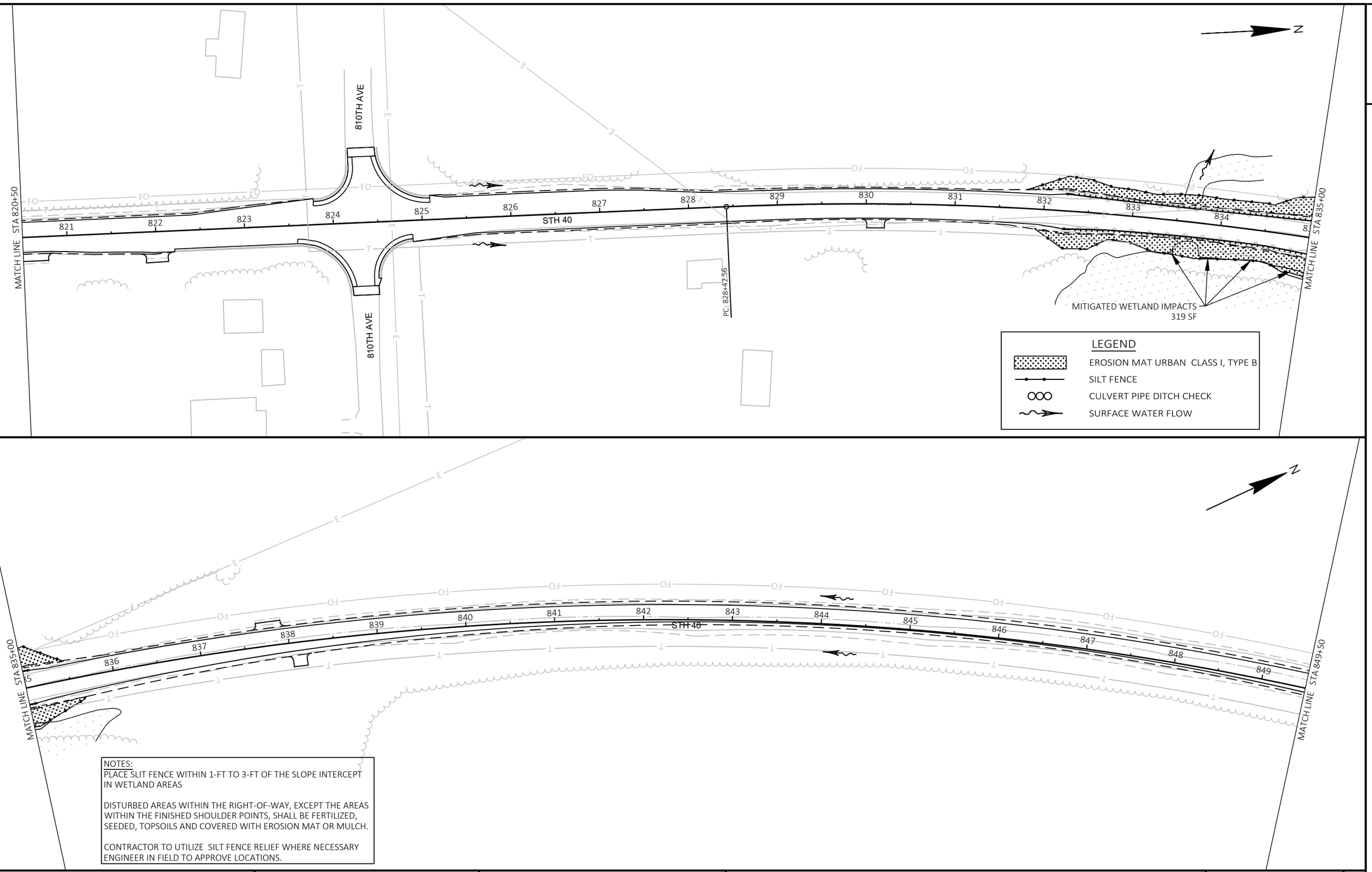
NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 85	E

2

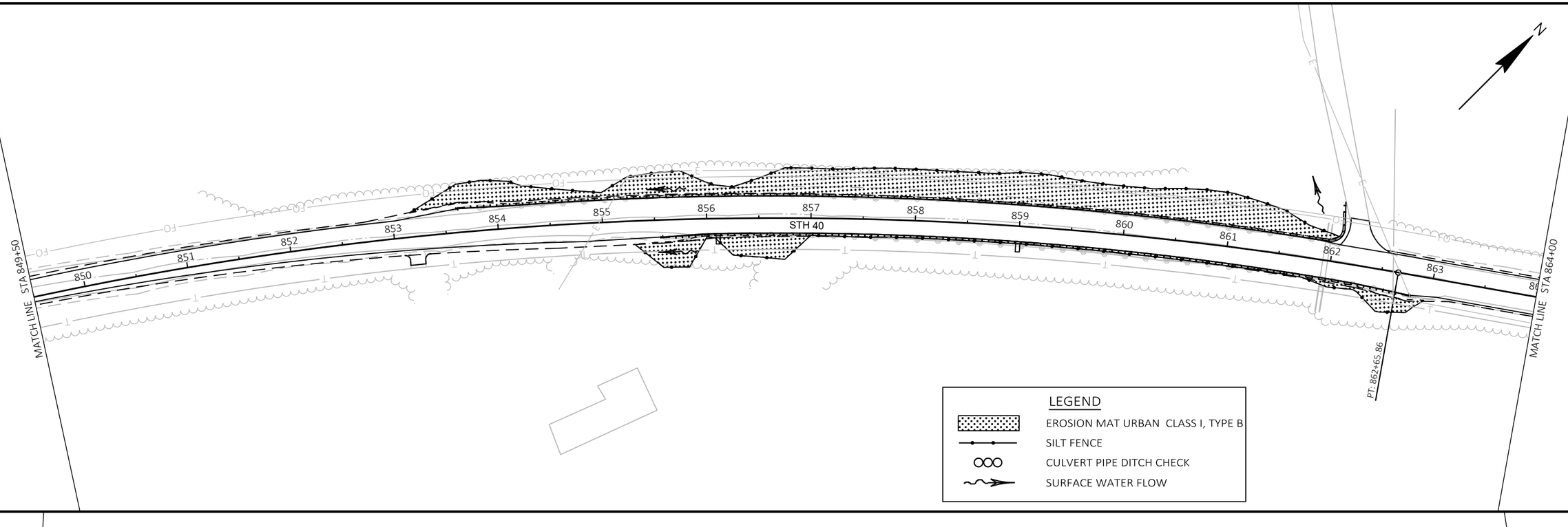


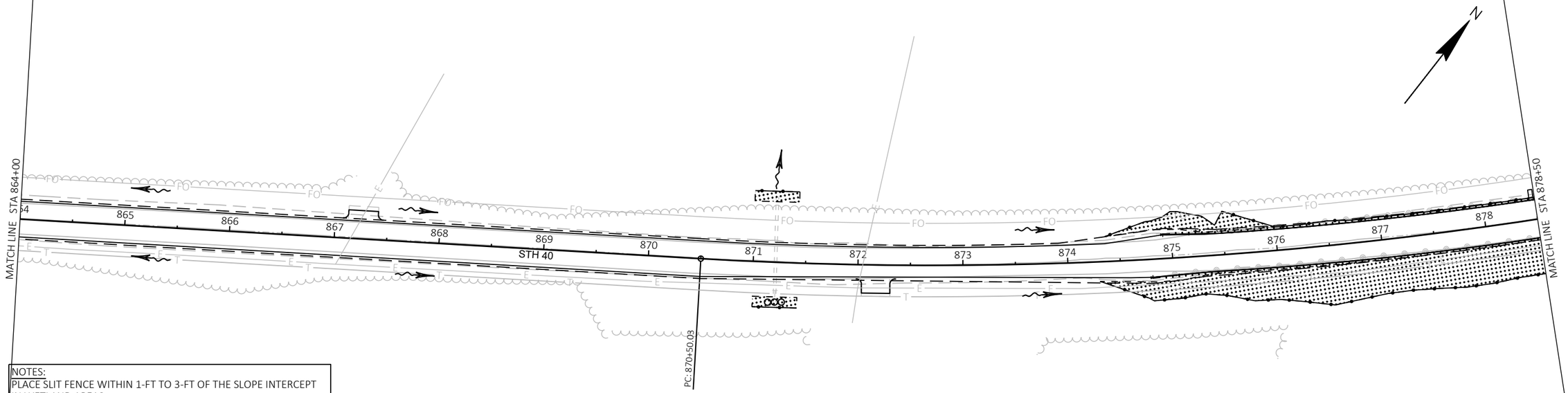
NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 86	E





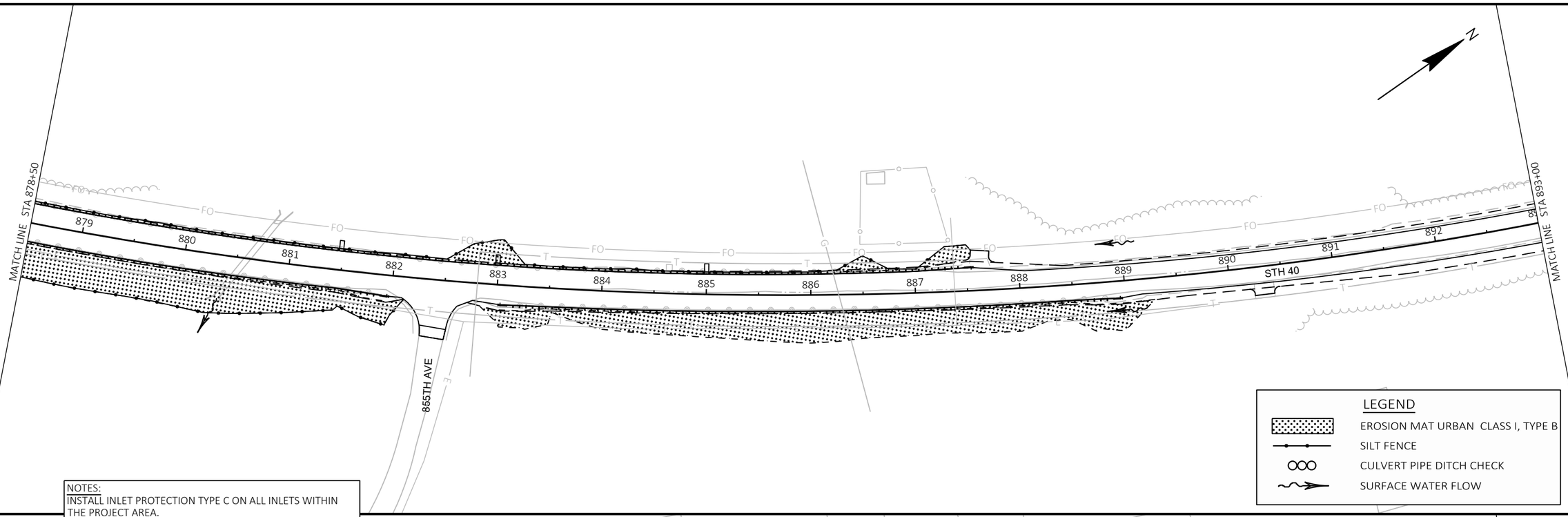
NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

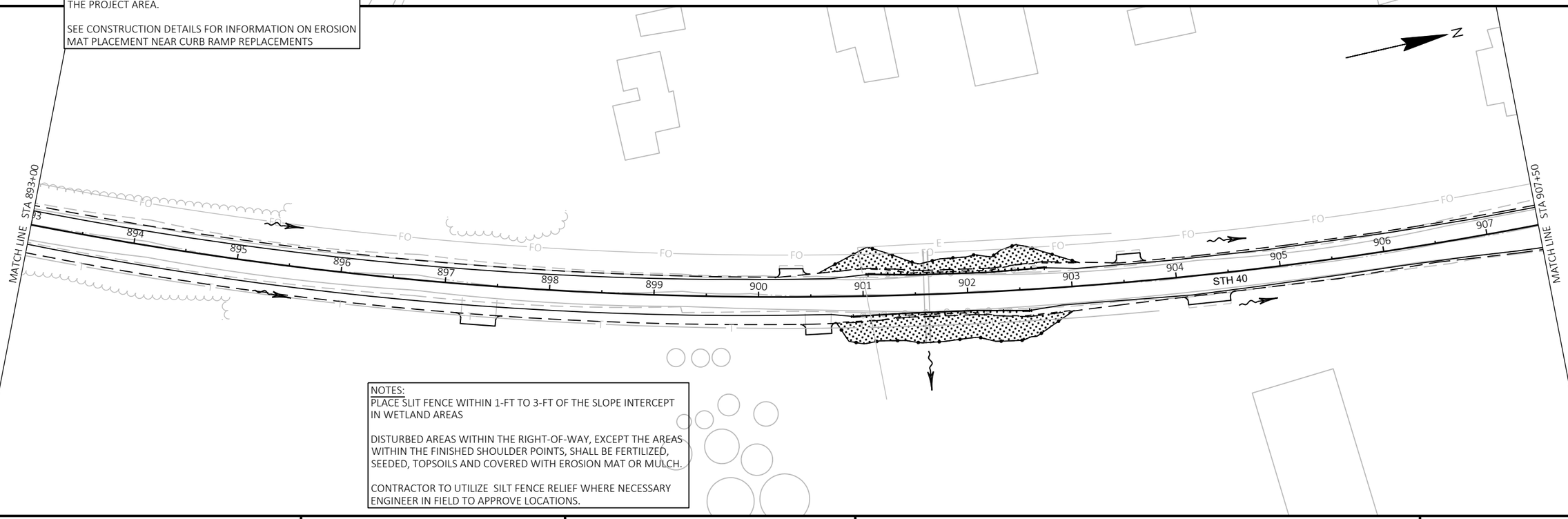
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 87	E

2



NOTES:
INSTALL INLET PROTECTION TYPE C ON ALL INLETS WITHIN THE PROJECT AREA.

SEE CONSTRUCTION DETAILS FOR INFORMATION ON EROSION MAT PLACEMENT NEAR CURB RAMP REPLACEMENTS



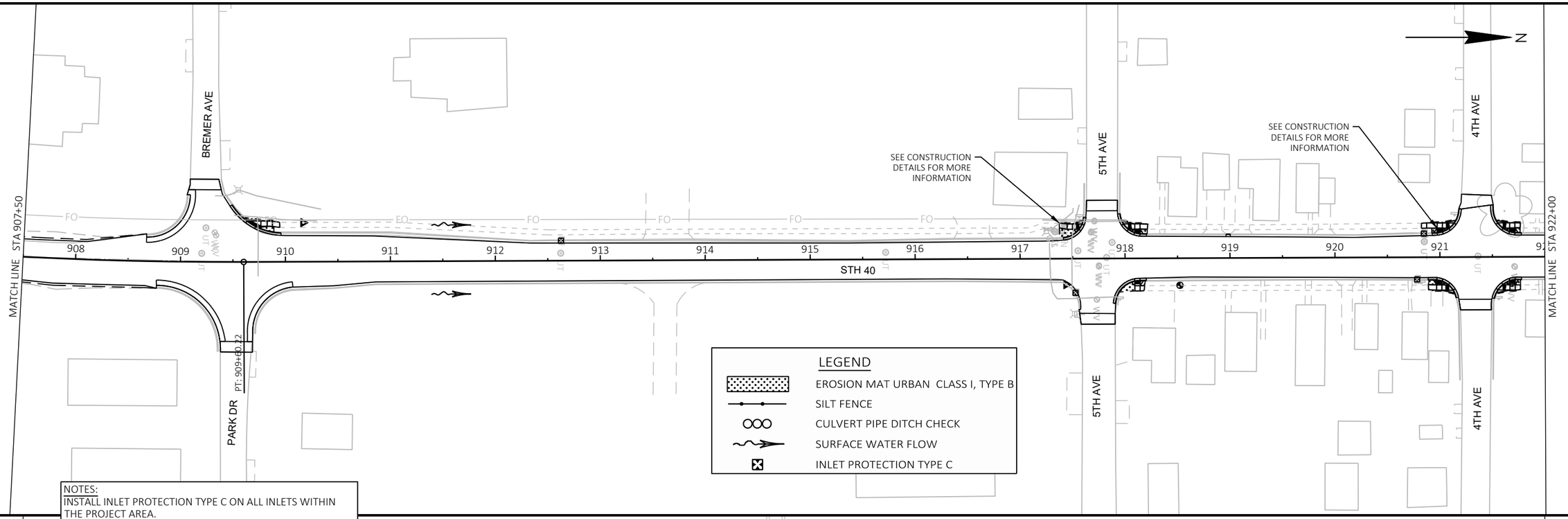
NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

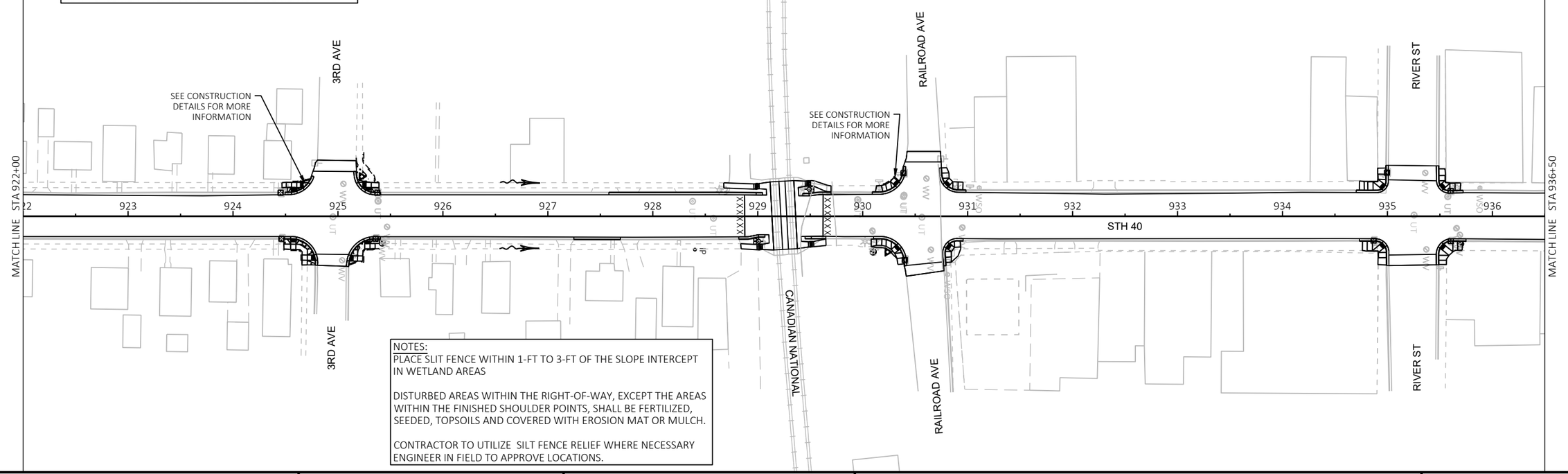
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 88	E

2



NOTES:
INSTALL INLET PROTECTION TYPE C ON ALL INLETS WITHIN THE PROJECT AREA.

SEE CONSTRUCTION DETAILS FOR INFORMATION ON EROSION MAT PLACEMENT NEAR CURB RAMP REPLACEMENTS



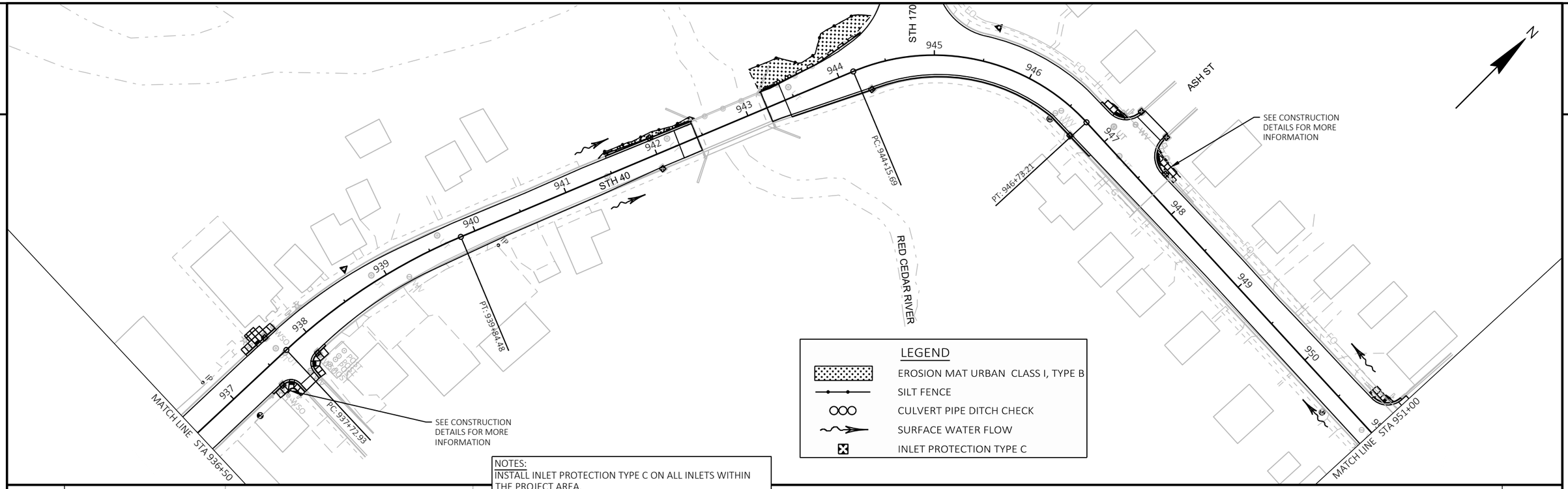
NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

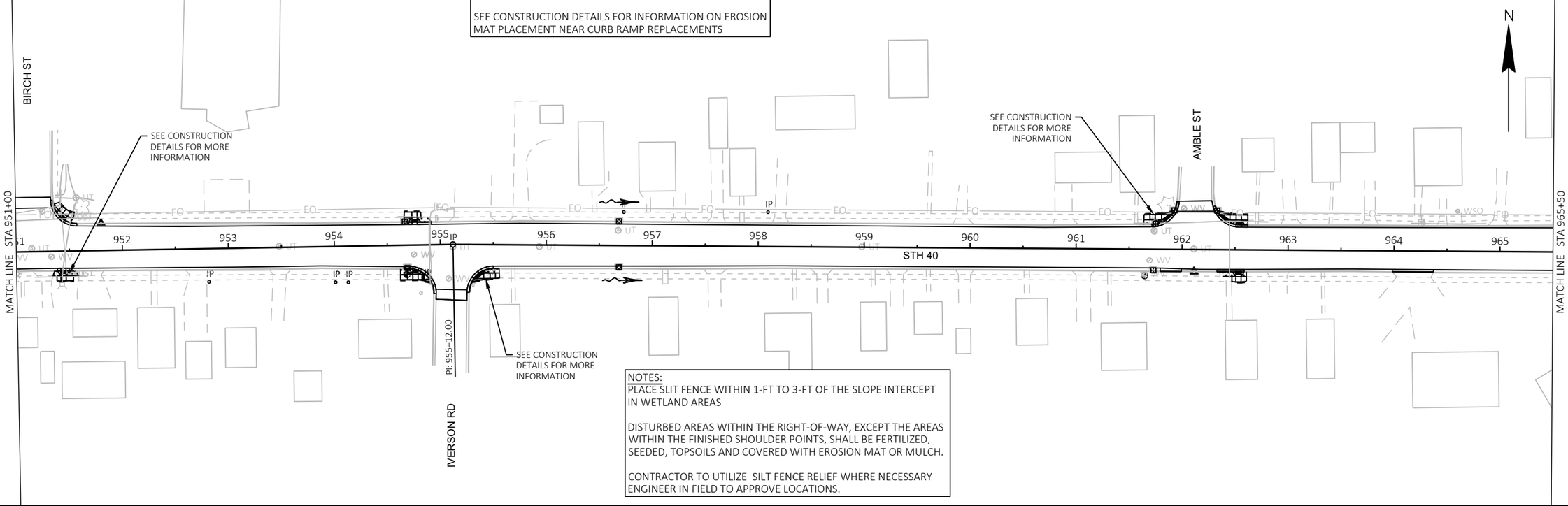
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 89	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\022001_EC\022001_EC.DWG
LAYOUT NAME - 19
PLOT DATE : 7/31/2025 4:20 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : ############
WISDOT/CADDS SHEET 44



NOTES:
INSTALL INLET PROTECTION TYPE C ON ALL INLETS WITHIN THE PROJECT AREA.

SEE CONSTRUCTION DETAILS FOR INFORMATION ON EROSION MAT PLACEMENT NEAR CURB RAMP REPLACEMENTS



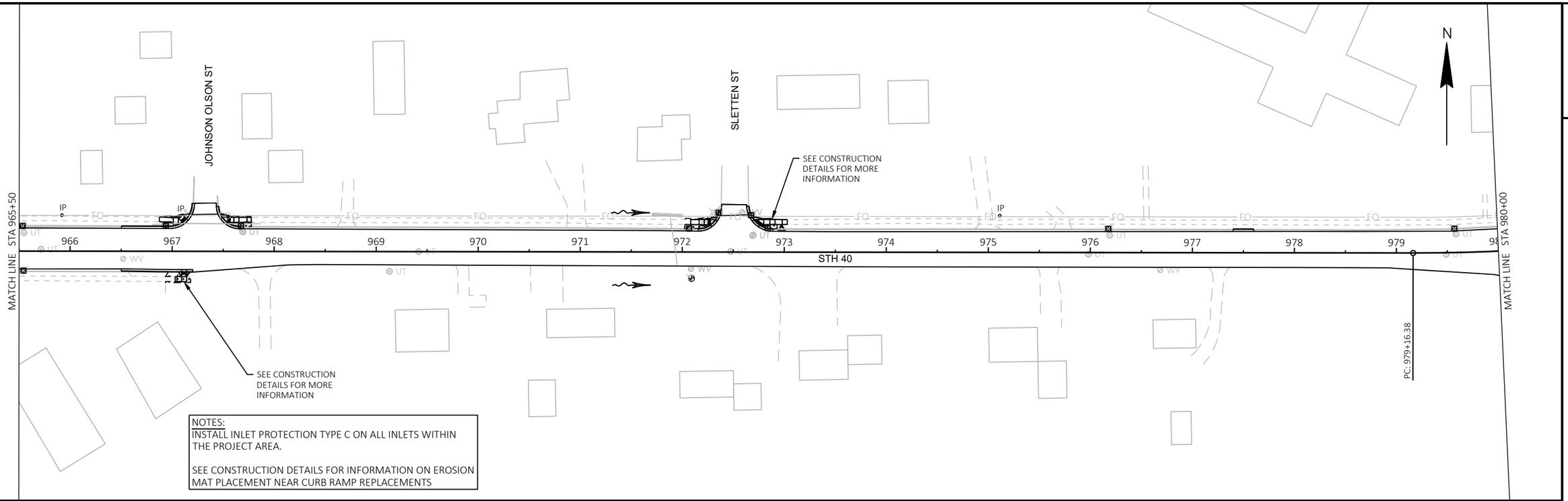
NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

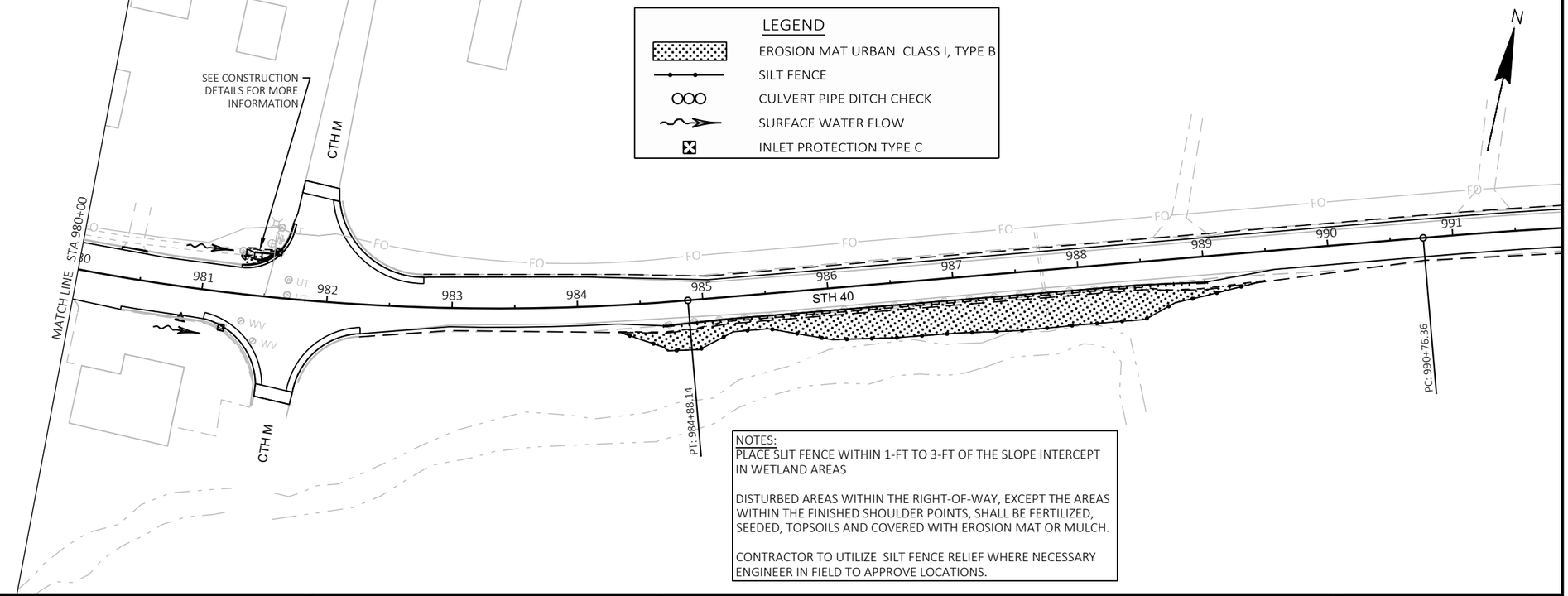
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 90	E

2



NOTES:
INSTALL INLET PROTECTION TYPE C ON ALL INLETS WITHIN THE PROJECT AREA.

SEE CONSTRUCTION DETAILS FOR INFORMATION ON EROSION MAT PLACEMENT NEAR CURB RAMP REPLACEMENTS



NOTES:
PLACE SLIT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILS AND COVERED WITH EROSION MAT OR MULCH.

CONTRACTOR TO UTILIZE SILT FENCE RELIEF WHERE NECESSARY ENGINEER IN FIELD TO APPROVE LOCATIONS.

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	EROSION CONTROL	SHEET 91	E

2

N

MW6
GWRE

MDY6
GWRE

PT: 441+69.86

440

445

USH 12

MW6
GWRE

WS3-9
GWRE

MW6
GWRE

555TH AVE

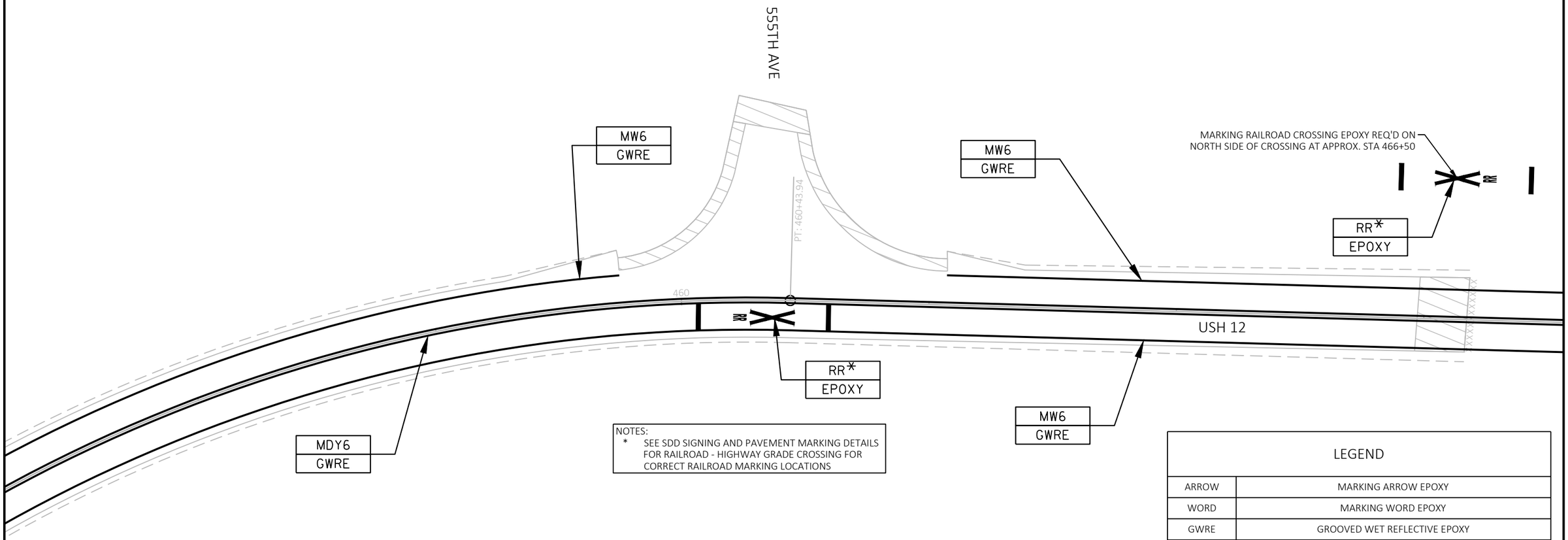
LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

TEMPORARY PAINT 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER BEFORE MILLING CENTERLINE RUMBLE STRIPS.

MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2



NOTES:
* SEE SDD SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSING FOR CORRECT RAILROAD MARKING LOCATIONS

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
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MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

NOTES:
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TEMPORARY PAINT 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER BEFORE MILLING CENTERLINE RUMBLE STRIPS.

MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
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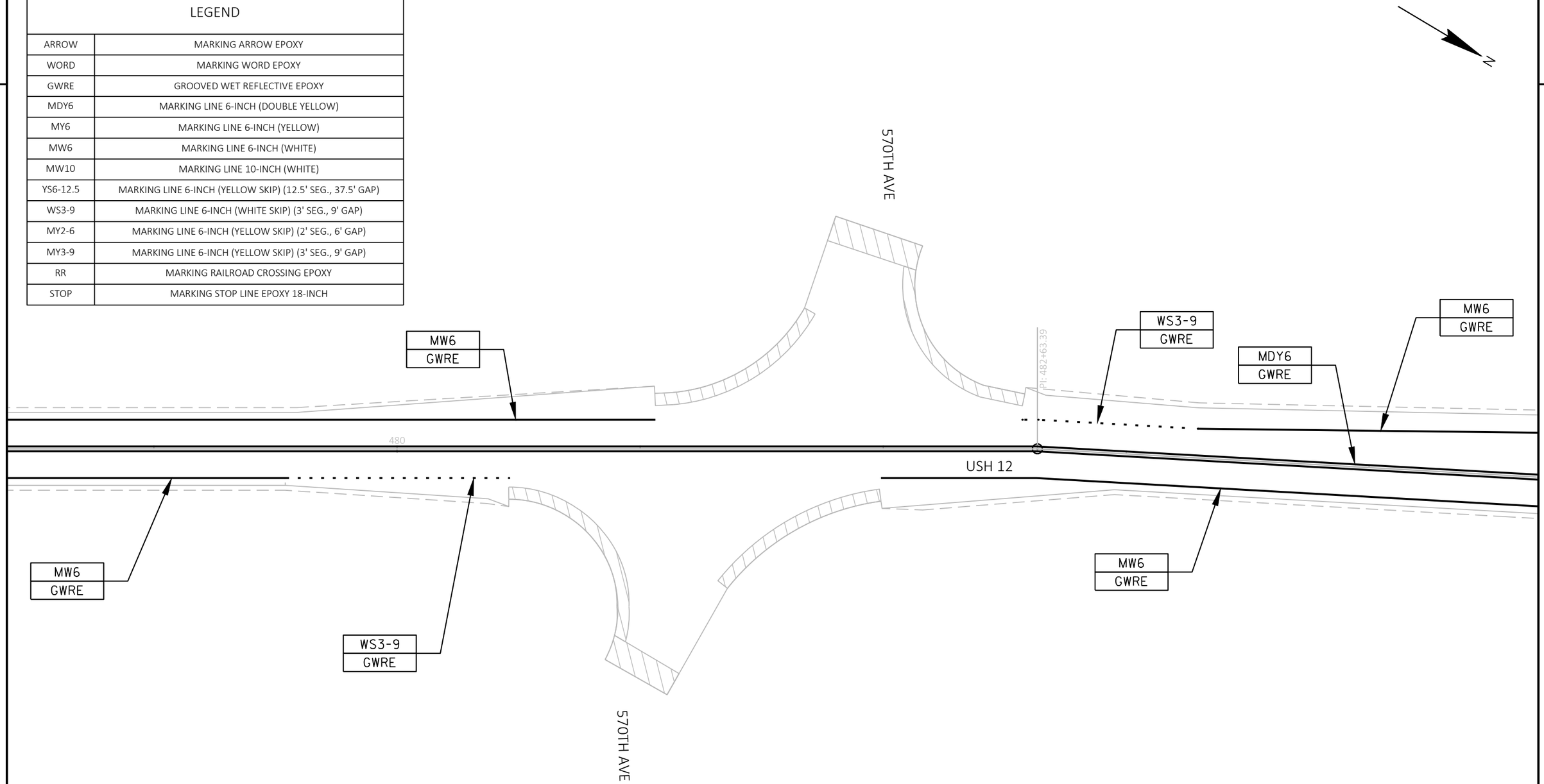
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH



NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

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MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
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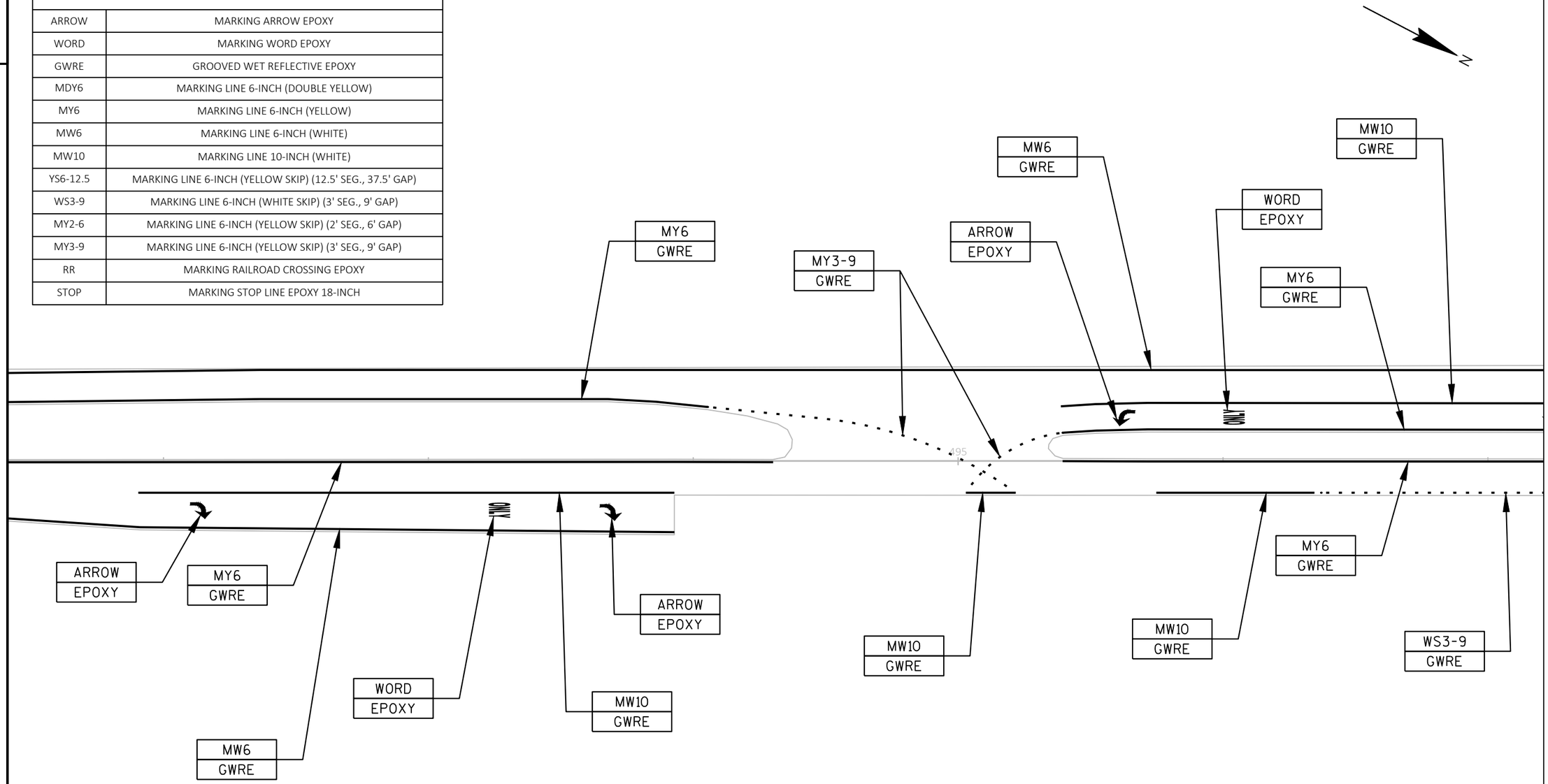
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH



NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

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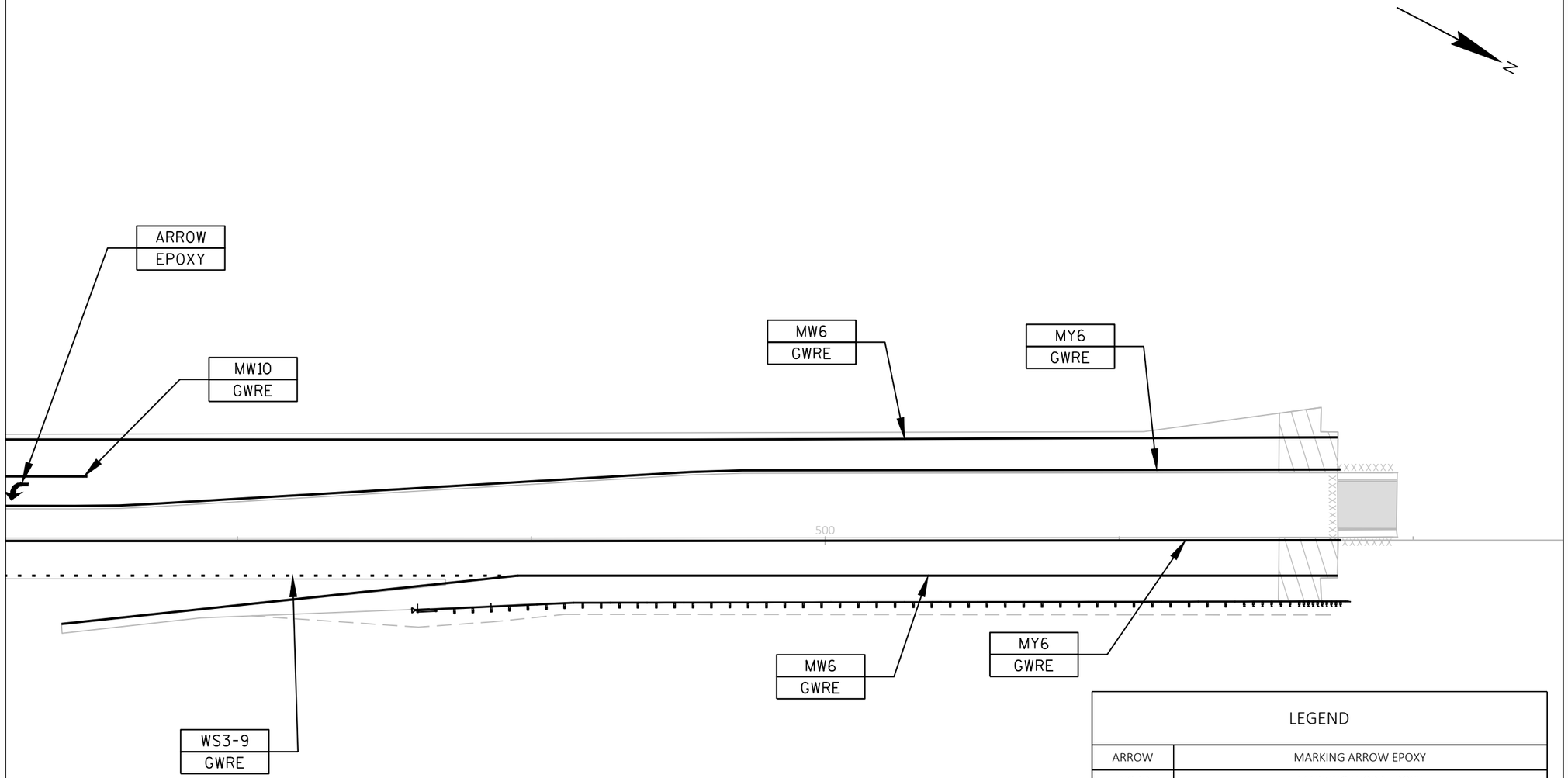
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2

MATCH LINE 502+51.09



MATCH LINE 497+21.09

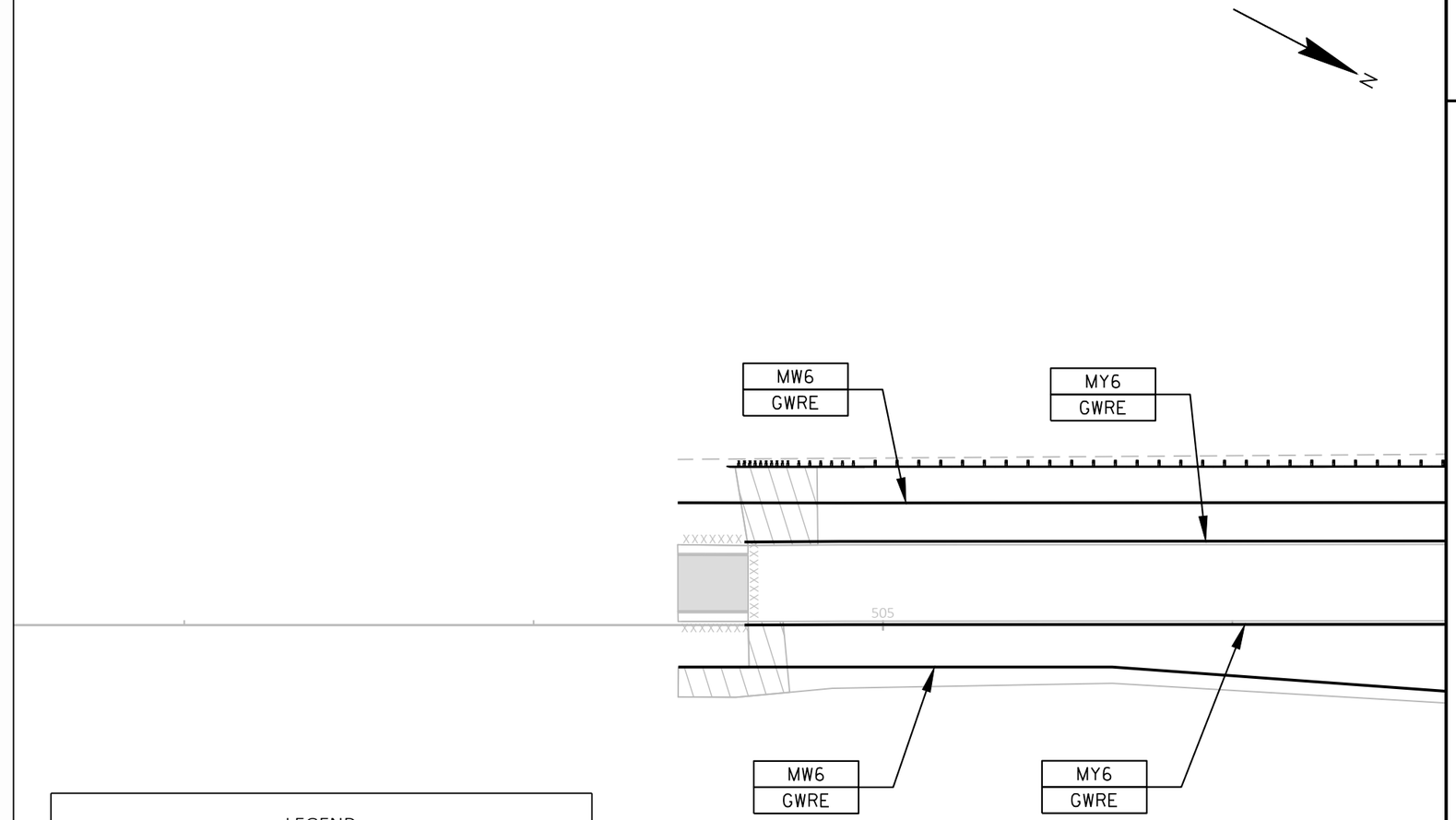
NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

TEMPORARY PAINT 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER BEFORE MILLING CENTERLINE RUMBLE STRIPS.

MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

2



MATCH LINE 502+51.09

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
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STOP	MARKING STOP LINE EPOXY 18-INCH

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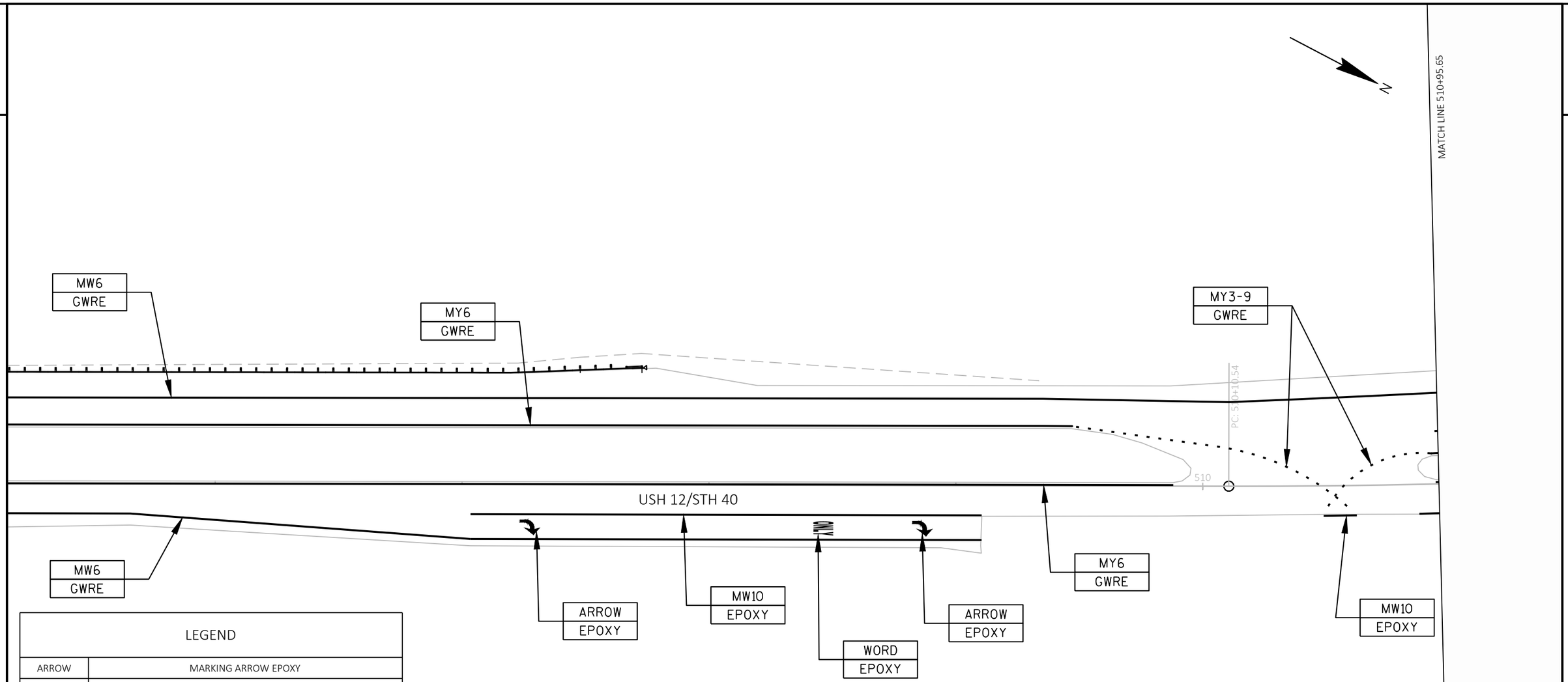
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2



LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
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NOTES:
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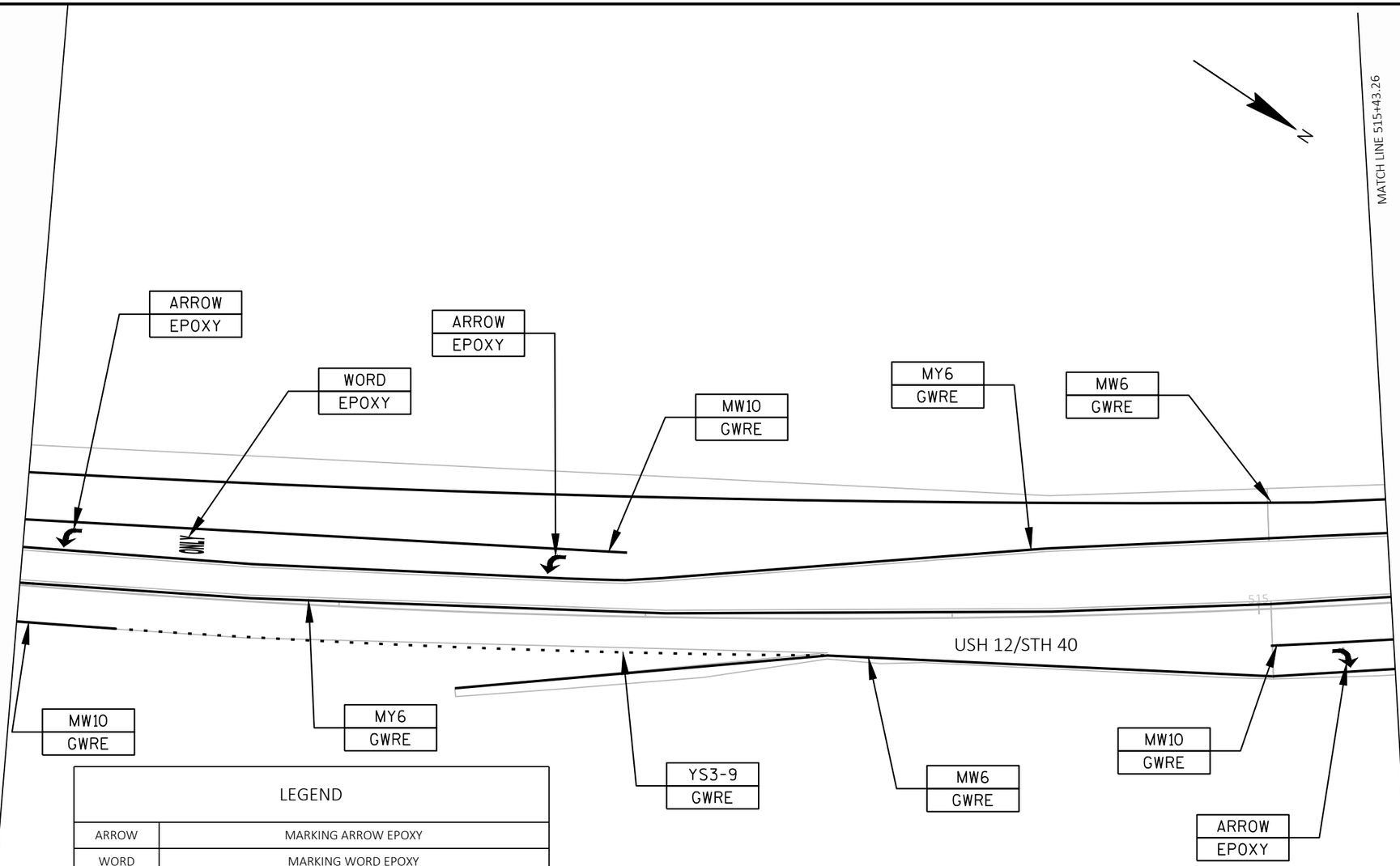
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2



LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
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TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

TEMPORARY PAINT 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER BEFORE MILLING CENTERLINE RUMBLE STRIPS.

MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2

N

ARROW
EPOXY

MW6
GWRE

MW10
GWRE

ARROW
EPOXY

MY6
GWRE

520

STH 40

MY6
GWRE

MW6
GWRE

WS3-9
GWRE

MW6
GWRE

ARROW
EPOXY

MW10
GWRE

870TH STREET

MATCH LINE 515+43.26

NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

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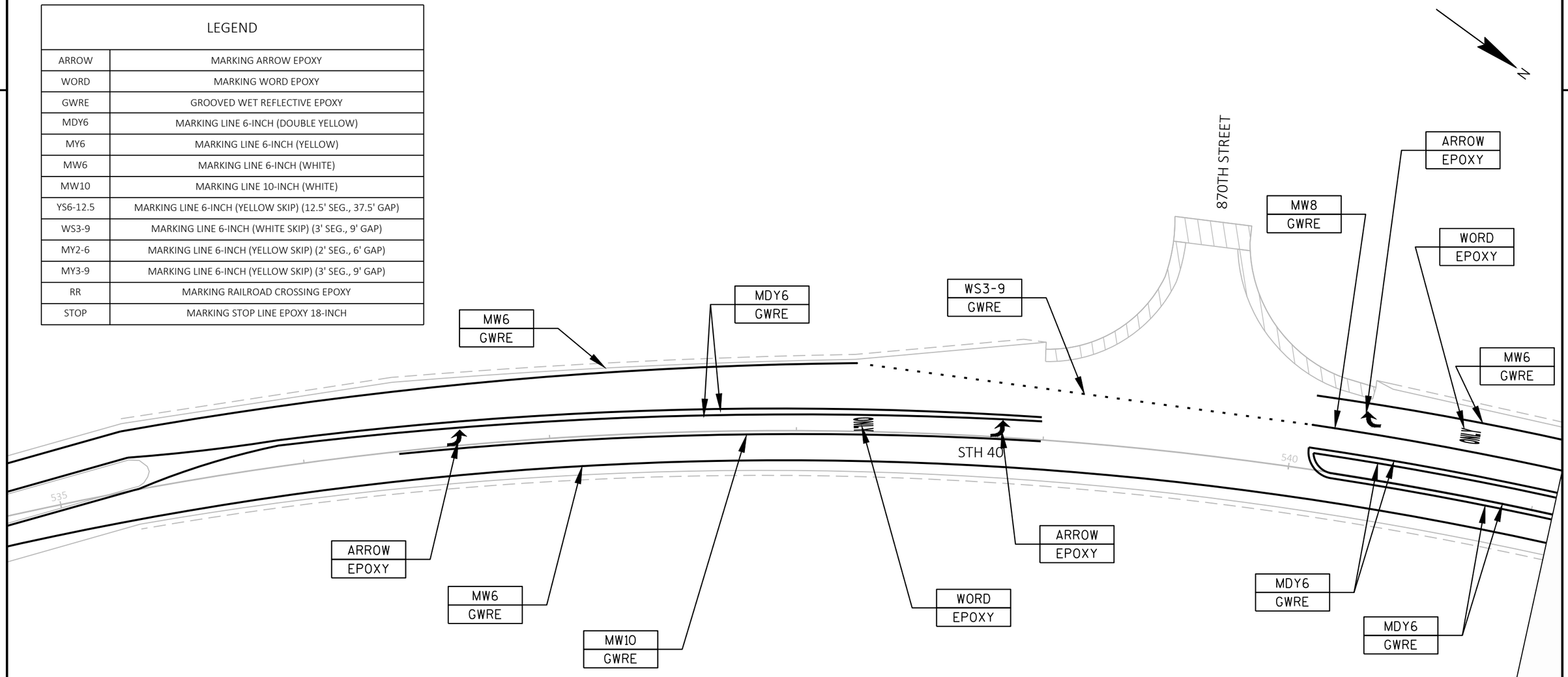
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PAVEMENT MARKING	SHEET 100	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\024501_PM\024502_PM.DWG
LAYOUT NAME - 09
PLOT DATE : 10/27/2025 3:47 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH



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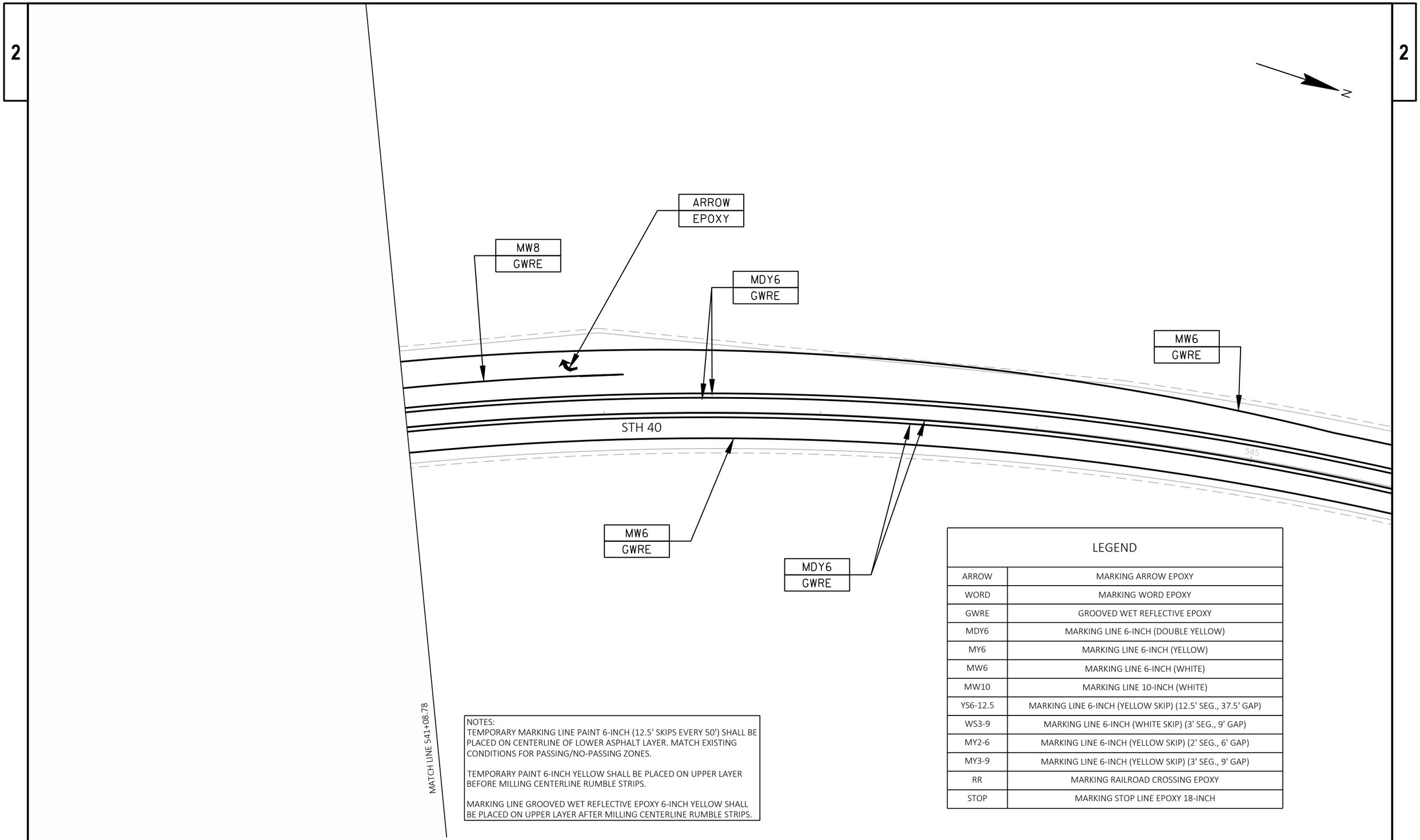
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PAVEMENT MARKING	SHEET 101	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\024501_PM\024502_PM.DWG
LAYOUT NAME - 10
PLOT DATE : 10/27/2025 3:47 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

2



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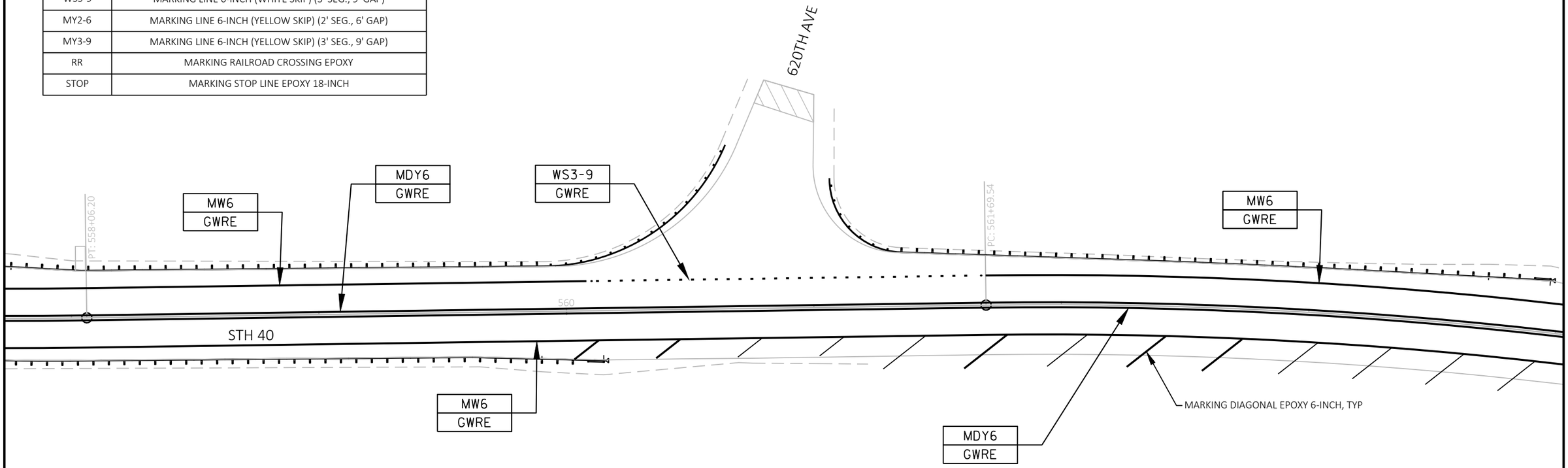
LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH



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MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PAVEMENT MARKING	SHEET 103	E

2

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

N

647TH AVE

MW6
GWRE

YS6-12.5
GWRE

MW6
GWRE

595

600

STH 40

MW6
GWRE

MW6
GWRE

648TH AVE

NOTES:
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MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
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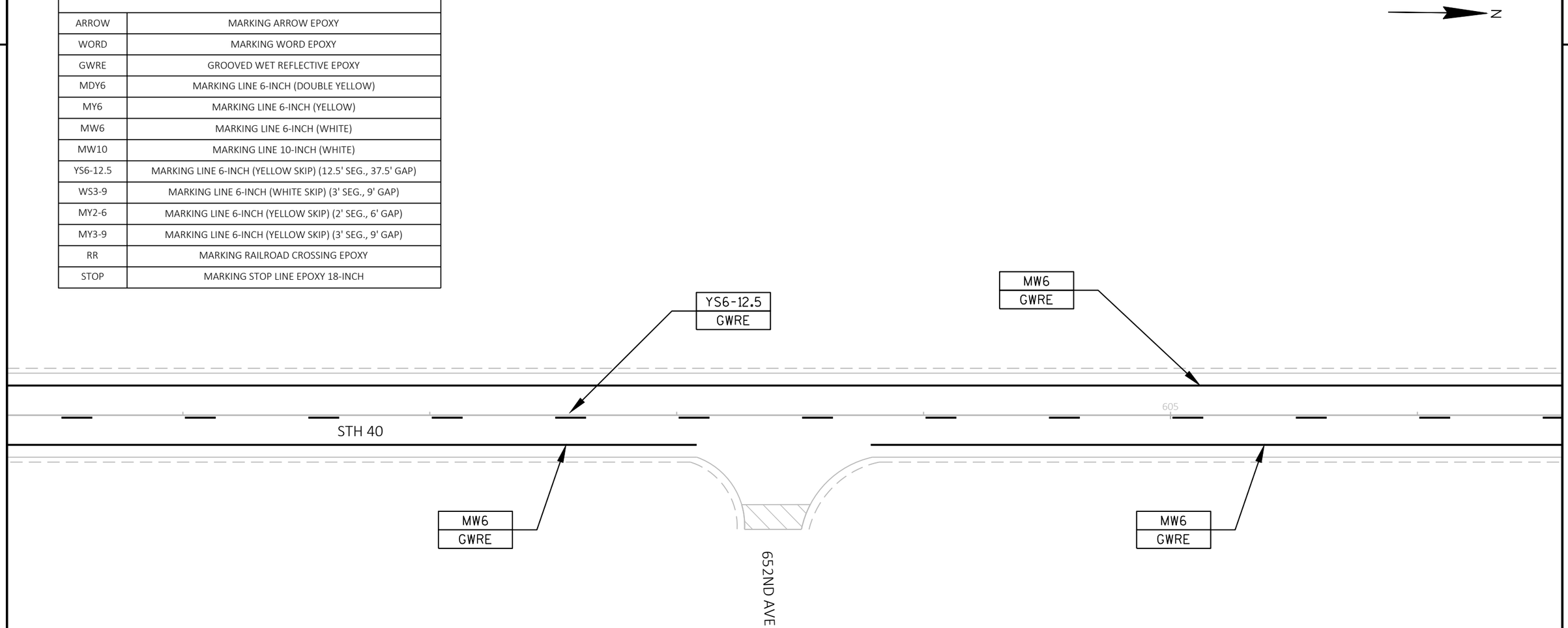
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH



NOTES:
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MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PAVEMENT MARKING	SHEET 105	E

2

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
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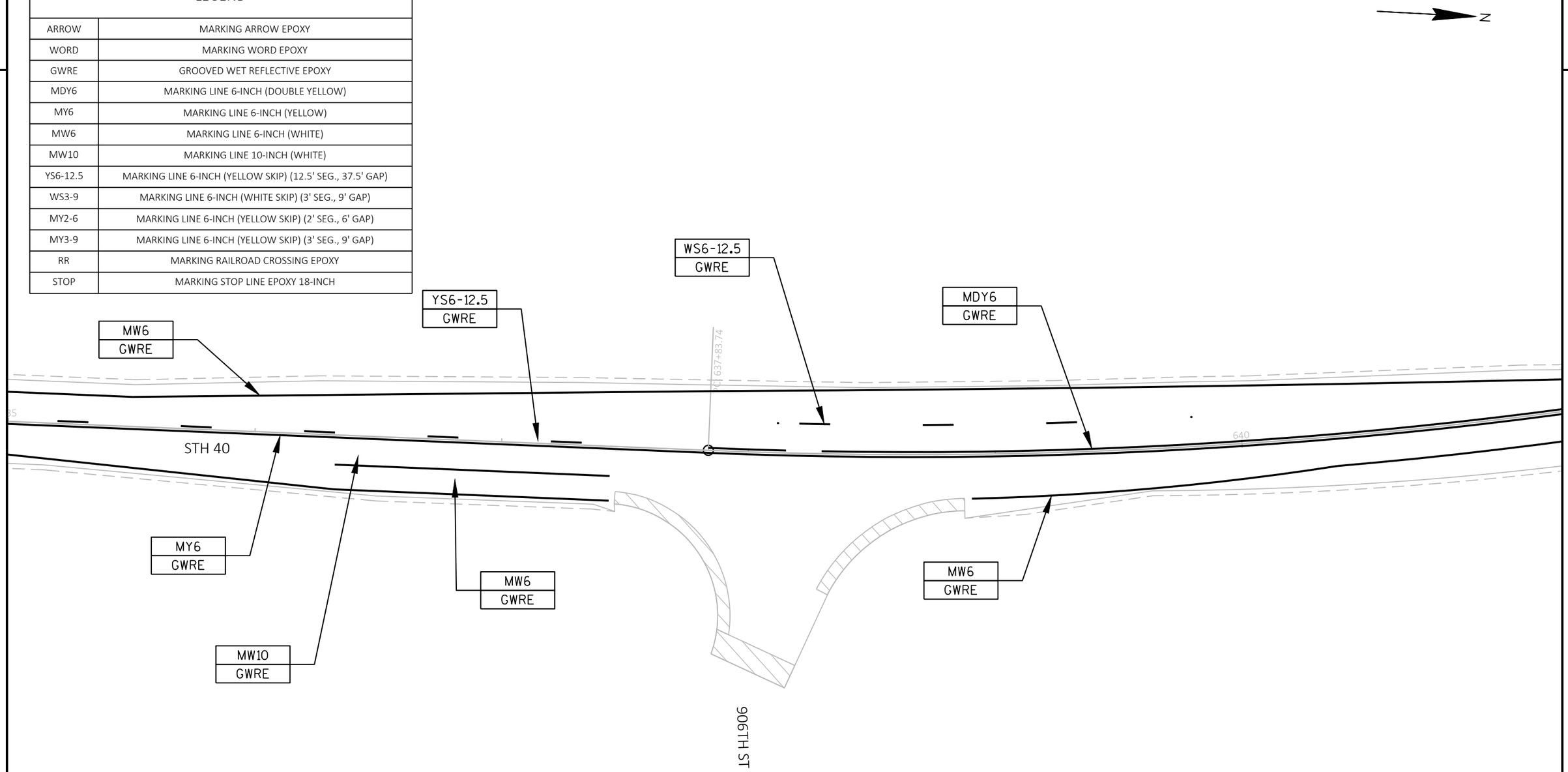
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

N



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MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PAVEMENT MARKING	SHEET 106	E

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
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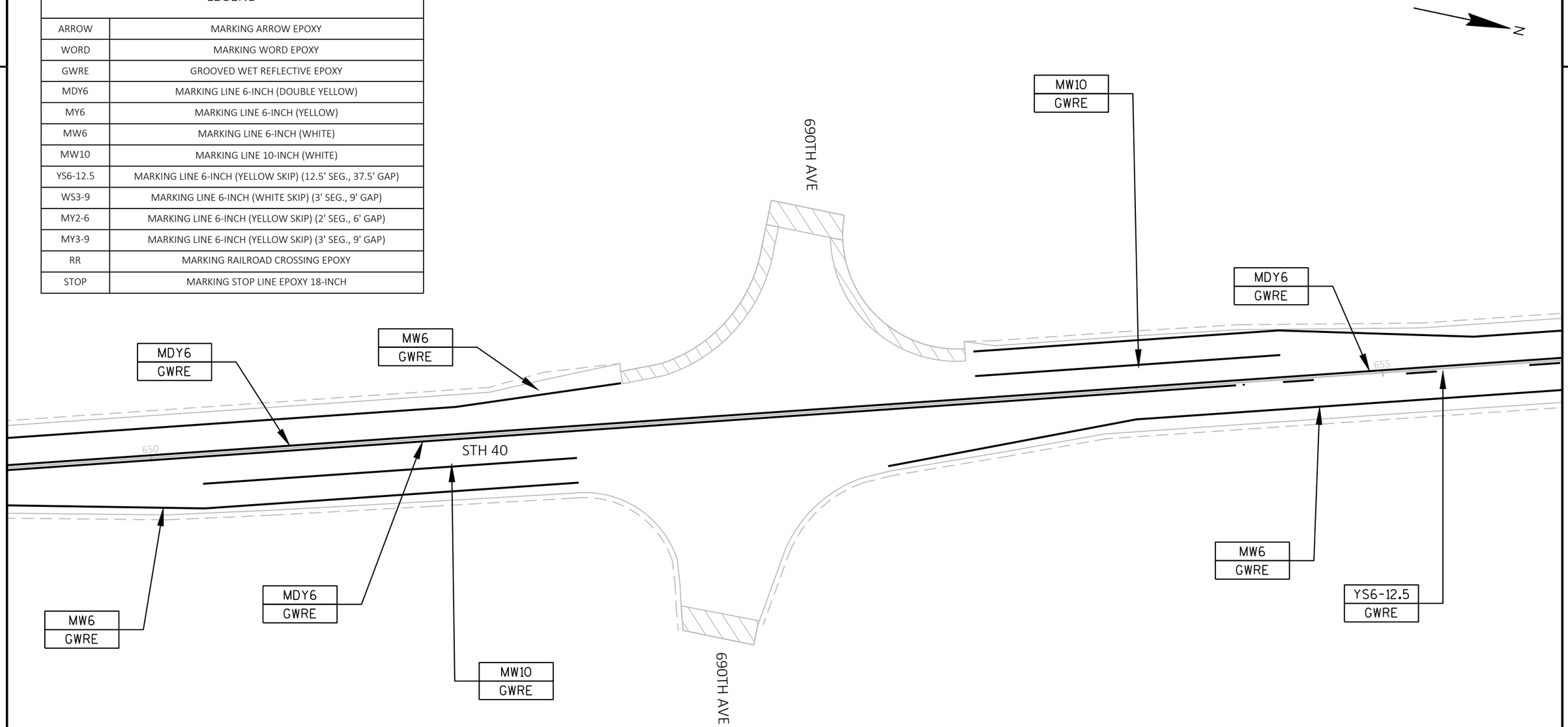
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH



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MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PAVEMENT MARKING	SHEET 107	E

2

2

N

MW6
GWRE

PT. 712+37.98

710

STH 40

MW6
GWRE

MDY6
GWRE

MW6
GWRE

730TH AVE

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

NOTES:
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MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2

2

N

MY6
GWRE

PT: 759+46.16

MW6
GWRE

760

STH 40

YS6-12.5
GWRE

MW6
GWRE

MW6
GWRE

MDY6
GWRE

760TH AVE

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
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STOP	MARKING STOP LINE EPOXY 18-INCH

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MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2

2

N

770TH AVE

YS6-12.5
GWRE

MW6
GWRE

MW6
GWRE

770

775

STH 40

MW6
GWRE

MY6
GWRE

MW6
GWRE

771ST AVE

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
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STOP	MARKING STOP LINE EPOXY 18-INCH

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2

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
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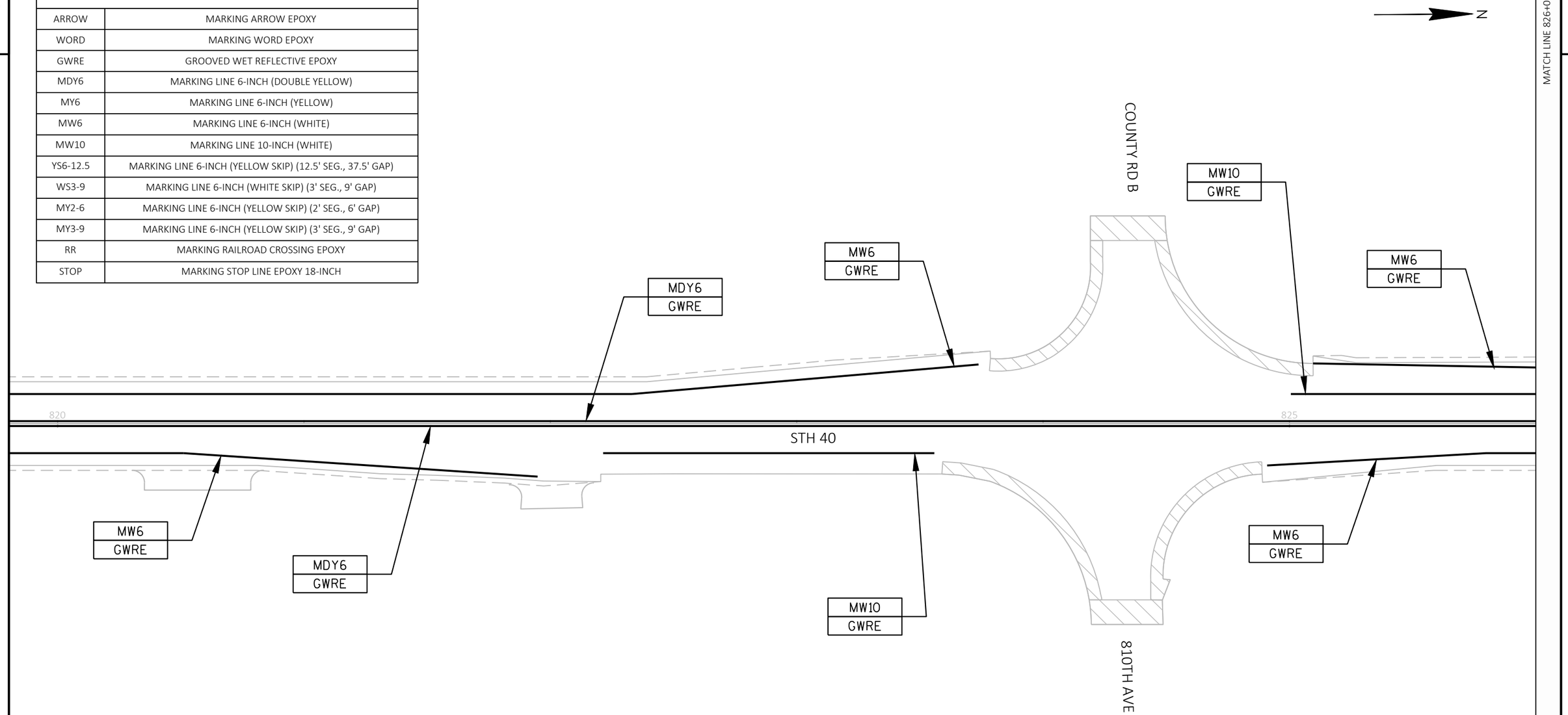

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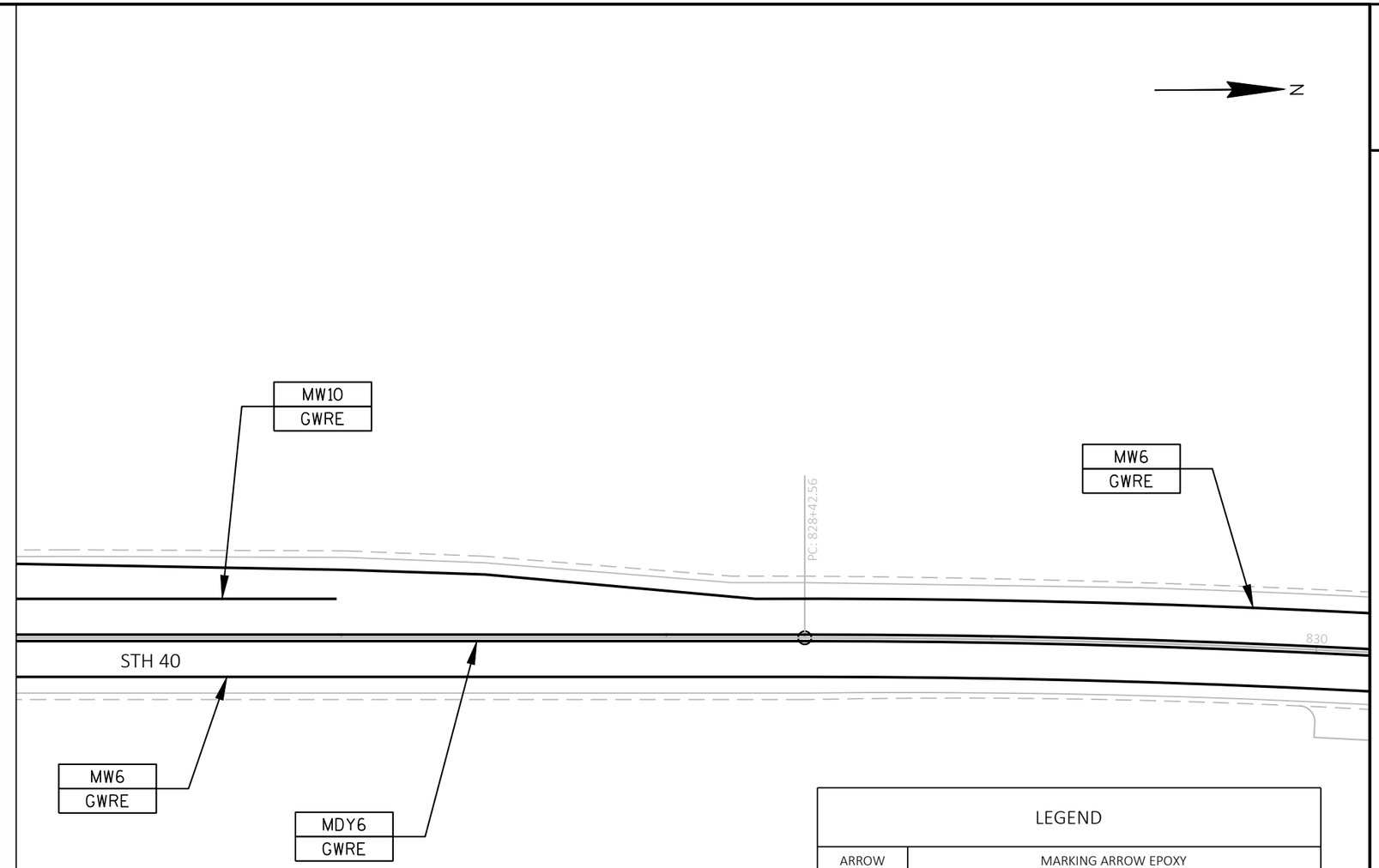
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2



MATCH LINE 826+00

NOTES:
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LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
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MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
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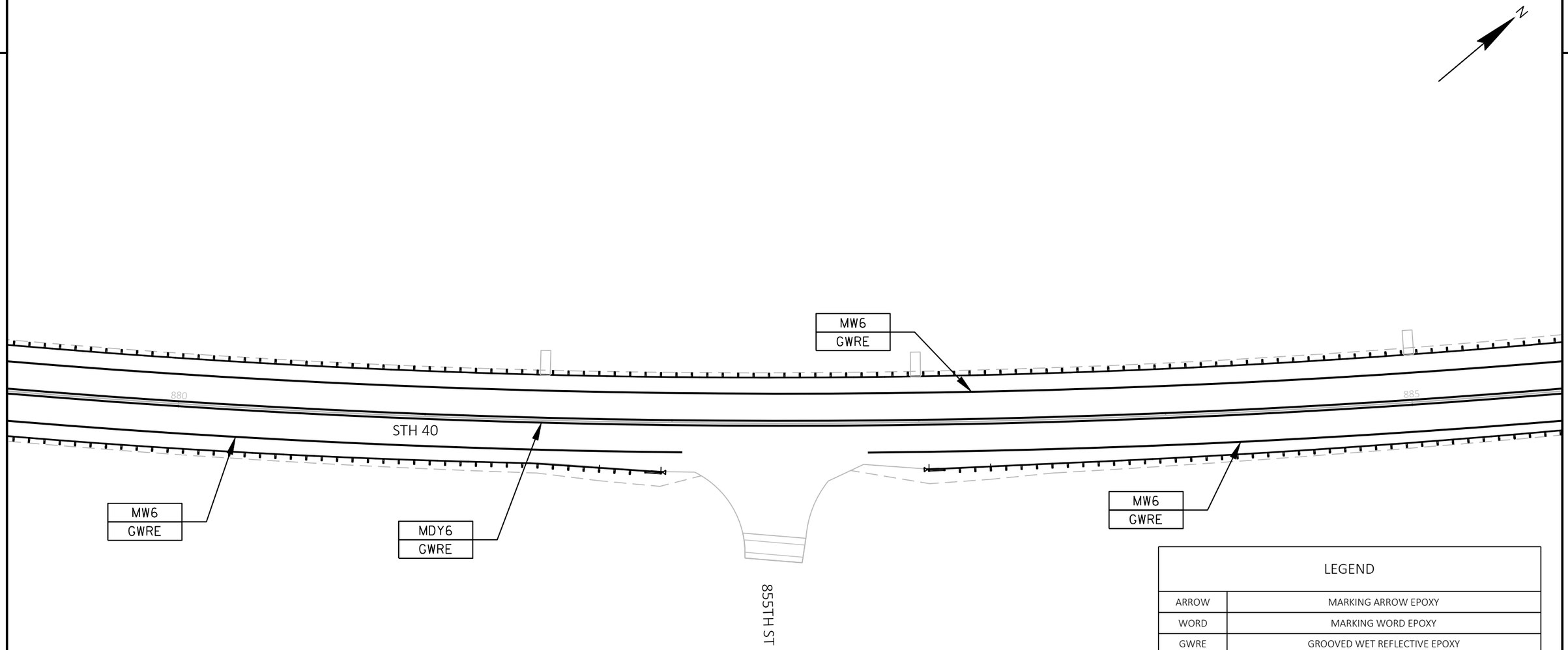
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

2

2



LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
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WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

TEMPORARY PAINT 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER BEFORE MILLING CENTERLINE RUMBLE STRIPS.

MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PAVEMENT MARKING	SHEET 113	E

2

N

BREMER AVE

MW6
GWRE

MDY6
GWRE

MW10
GWRE

MY6
GWRE

PT: 900+40.22

910

STH 40

MW6
GWRE

MW10
GWRE

PARK DR

MW6
GWRE

YS6-12.5
GWRE

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

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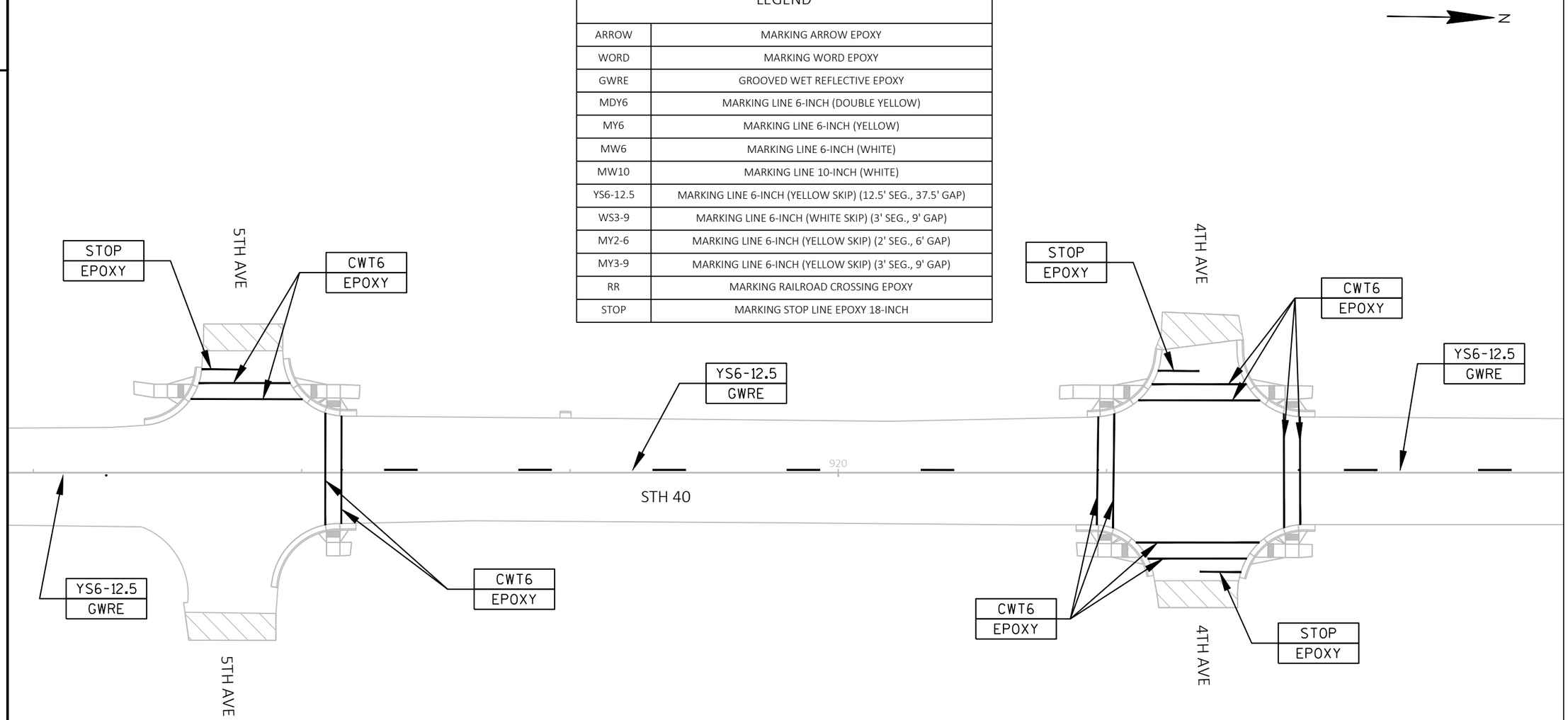
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH



NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

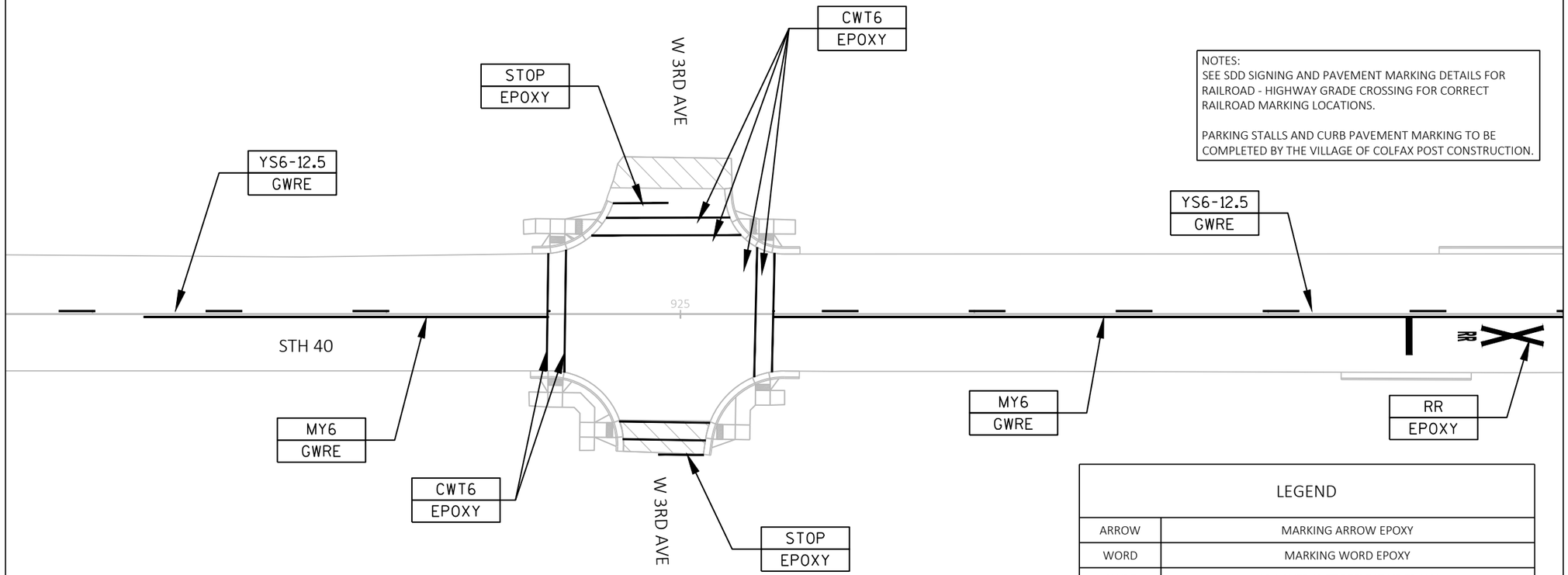
TEMPORARY PAINT 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER BEFORE MILLING CENTERLINE RUMBLE STRIPS.

MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2

N

MATCH LINE 928+00.38



NOTES:
SEE SDD SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSING FOR CORRECT RAILROAD MARKING LOCATIONS.

PARKING STALLS AND CURB PAVEMENT MARKING TO BE COMPLETED BY THE VILLAGE OF COLFAX POST CONSTRUCTION.

MATCH LINE 922+70.38

NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

TEMPORARY PAINT 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER BEFORE MILLING CENTERLINE RUMBLE STRIPS.

MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

2

N

MATCH LINE 933+30.38

W RAILROAD AVE

STOP
EPOXY

CWT6
EPOXY

MDY6
GWRE

YS6-12.5
GWRE

RR
EPOXY

MDY6
GWRE

NOTES:
SEE SDD SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSING FOR CORRECT RAILROAD MARKING LOCATIONS

PARKING STALLS AND CURB PAVEMENT MARKING TO BE COMPLETED BY THE VILLAGE OF COLFAX POST CONSTRUCTION.

930

STH 40

STOP
EPOXY

MDY6
GWRE

STOP
EPOXY

MDY6
GWRE

CWT6
EPOXY

STOP
EPOXY

W RAILROAD AVE

MATCH LINE 928+00.38

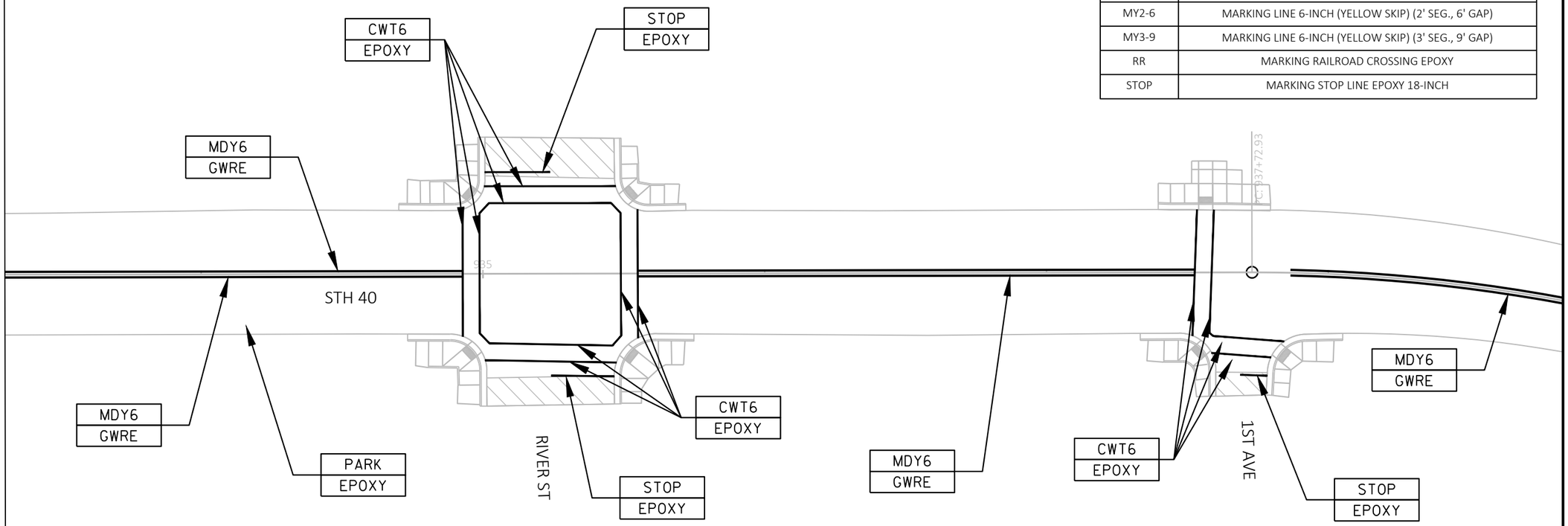
NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

TEMPORARY PAINT 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER BEFORE MILLING CENTERLINE RUMBLE STRIPS.

MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH



MATCH LINE 933+30.38

NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

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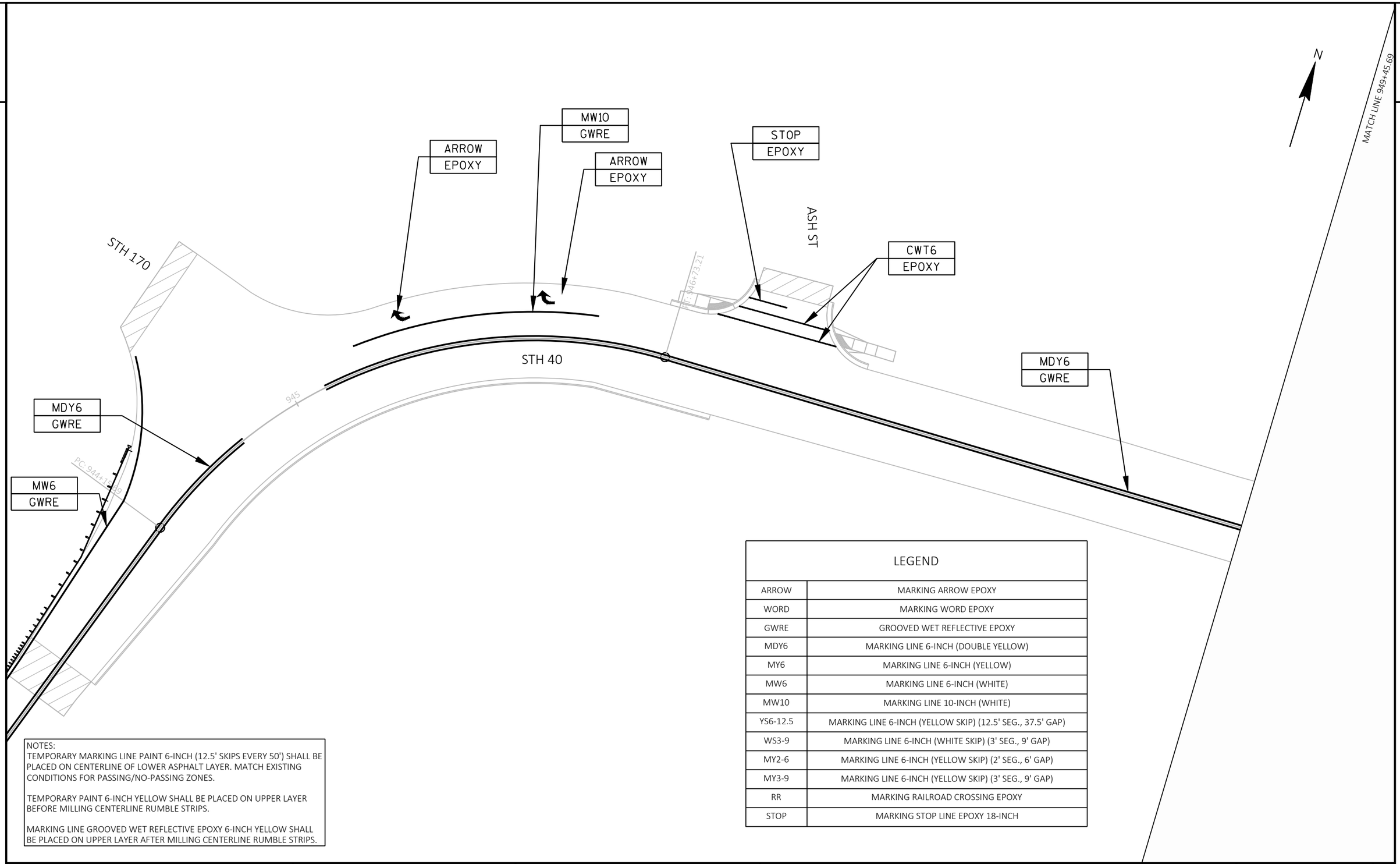
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2



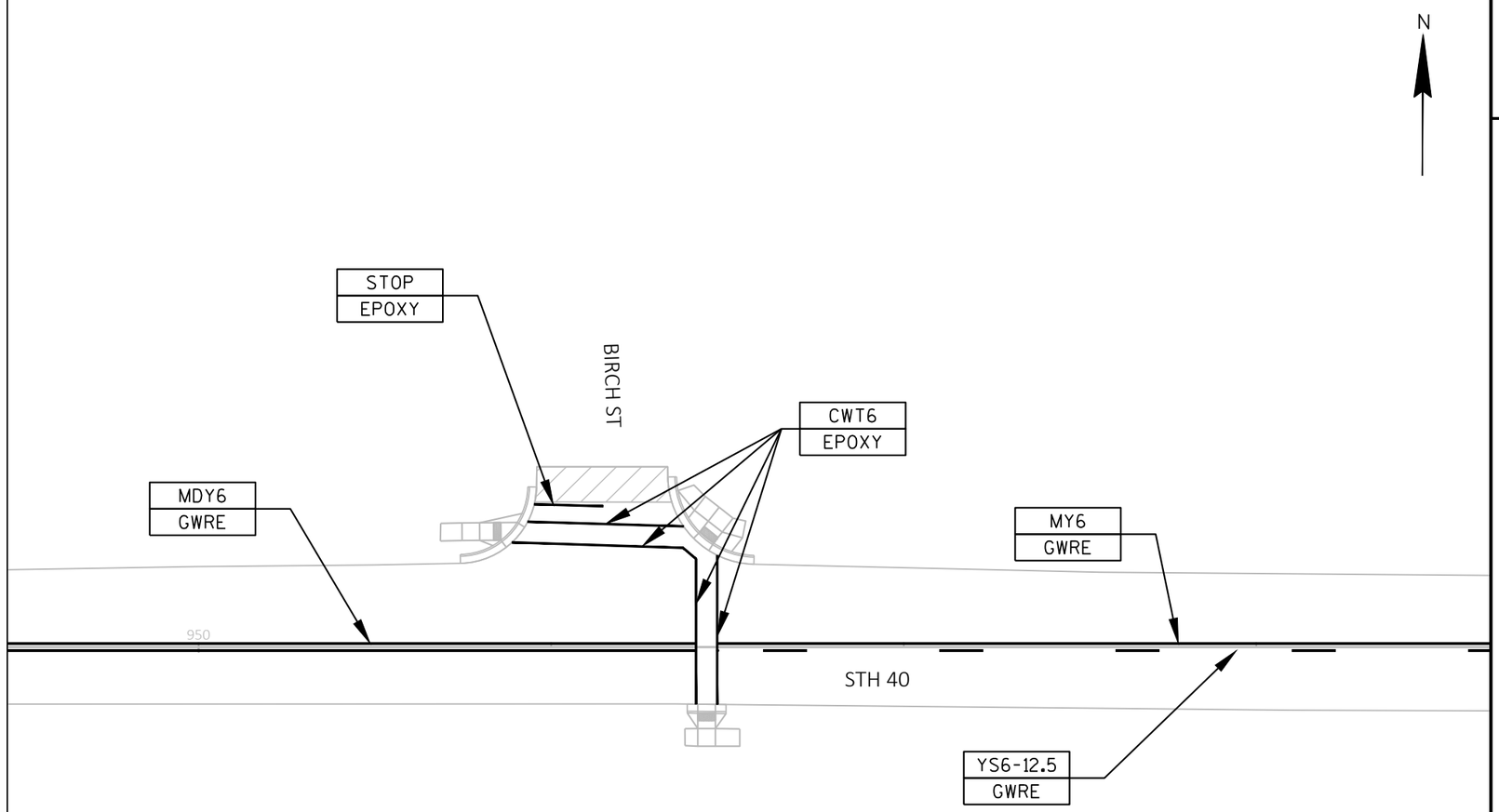
LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

TEMPORARY PAINT 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER BEFORE MILLING CENTERLINE RUMBLE STRIPS.

MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2



MATCH LINE 949+45.69

NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

TEMPORARY PAINT 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER BEFORE MILLING CENTERLINE RUMBLE STRIPS.

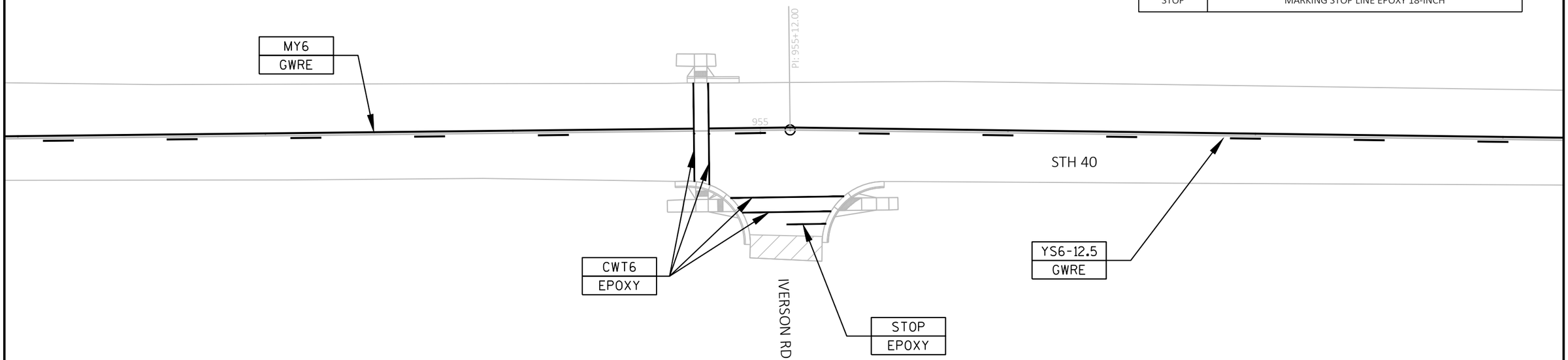
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

2

N

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH



NOTES:
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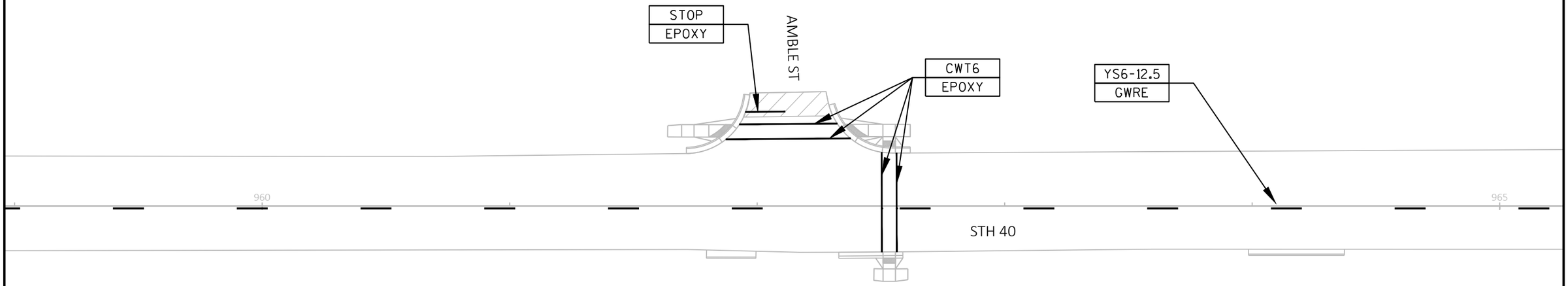
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2

N



LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

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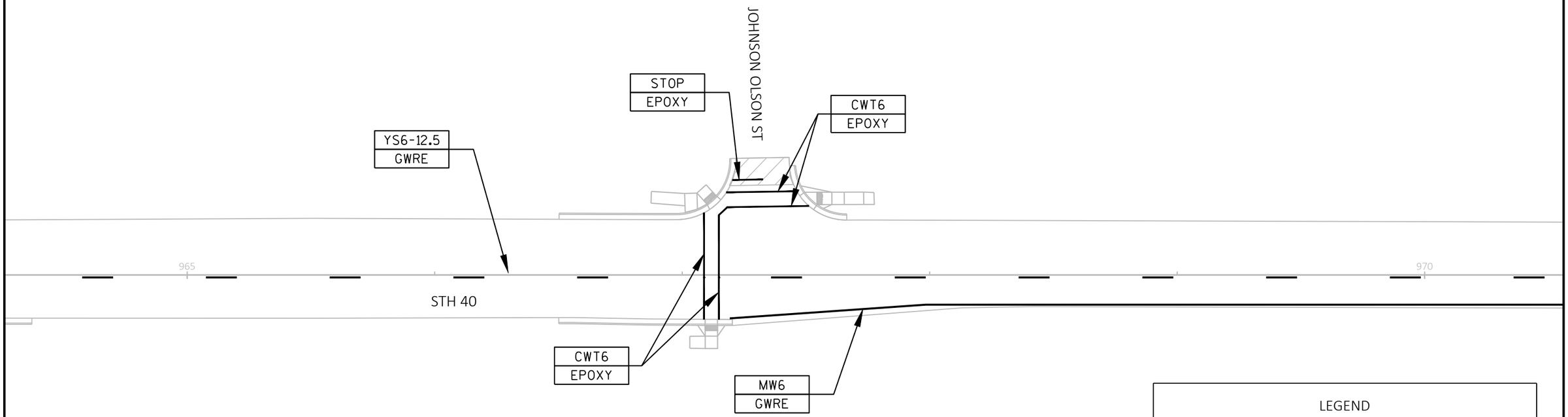
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2

2

N



LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

NOTES:
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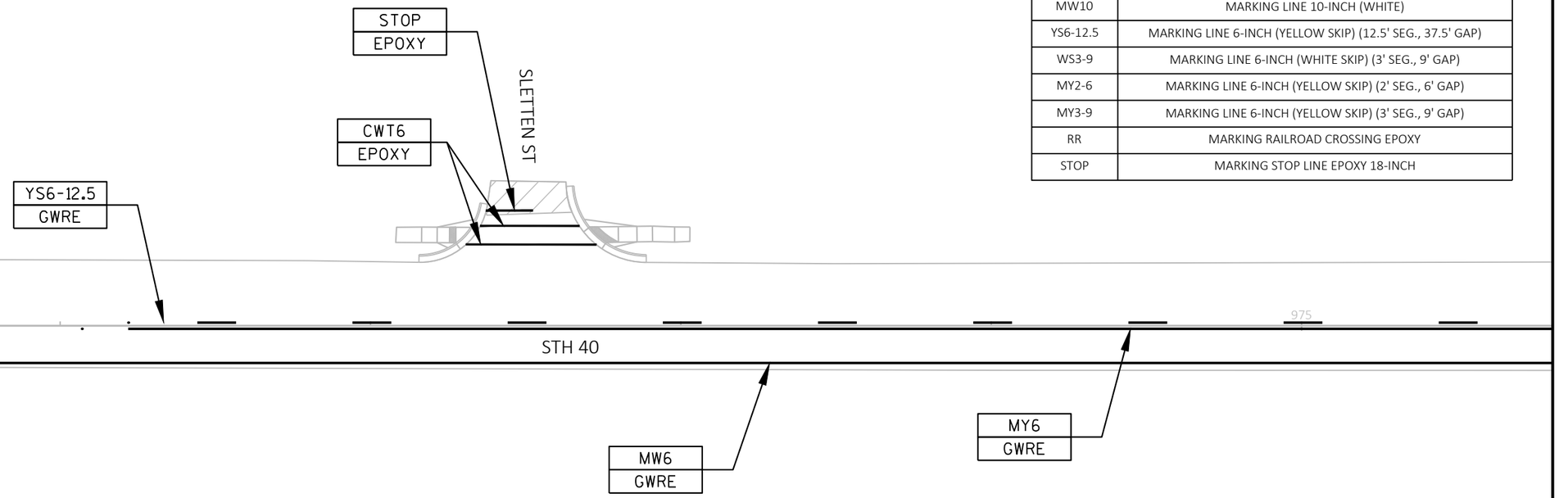
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

2

N

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH



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TEMPORARY PAINT 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER BEFORE MILLING CENTERLINE RUMBLE STRIPS.

MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PAVEMENT MARKING	SHEET 124	E

2

N

CTH M

PC: 979+16.38

980

YS6-12.5
GWRE

MW10
GWRE

MDY6
GWRE

MW6
GWRE

PT: 984+88.14

MY6
GWRE

STH 40

MW6
GWRE

MW6
GWRE

MW10
GWRE

CTH M

LEGEND	
ARROW	MARKING ARROW EPOXY
WORD	MARKING WORD EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY6	MARKING LINE 6-INCH (DOUBLE YELLOW)
MY6	MARKING LINE 6-INCH (YELLOW)
MW6	MARKING LINE 6-INCH (WHITE)
MW10	MARKING LINE 10-INCH (WHITE)
YS6-12.5	MARKING LINE 6-INCH (YELLOW SKIP) (12.5' SEG., 37.5' GAP)
WS3-9	MARKING LINE 6-INCH (WHITE SKIP) (3' SEG., 9' GAP)
MY2-6	MARKING LINE 6-INCH (YELLOW SKIP) (2' SEG., 6' GAP)
MY3-9	MARKING LINE 6-INCH (YELLOW SKIP) (3' SEG., 9' GAP)
RR	MARKING RAILROAD CROSSING EPOXY
STOP	MARKING STOP LINE EPOXY 18-INCH

NOTES:
TEMPORARY MARKING LINE PAINT 6-INCH (12.5' SKIPS EVERY 50') SHALL BE PLACED ON CENTERLINE OF LOWER ASPHALT LAYER. MATCH EXISTING CONDITIONS FOR PASSING/NO-PASSING ZONES.

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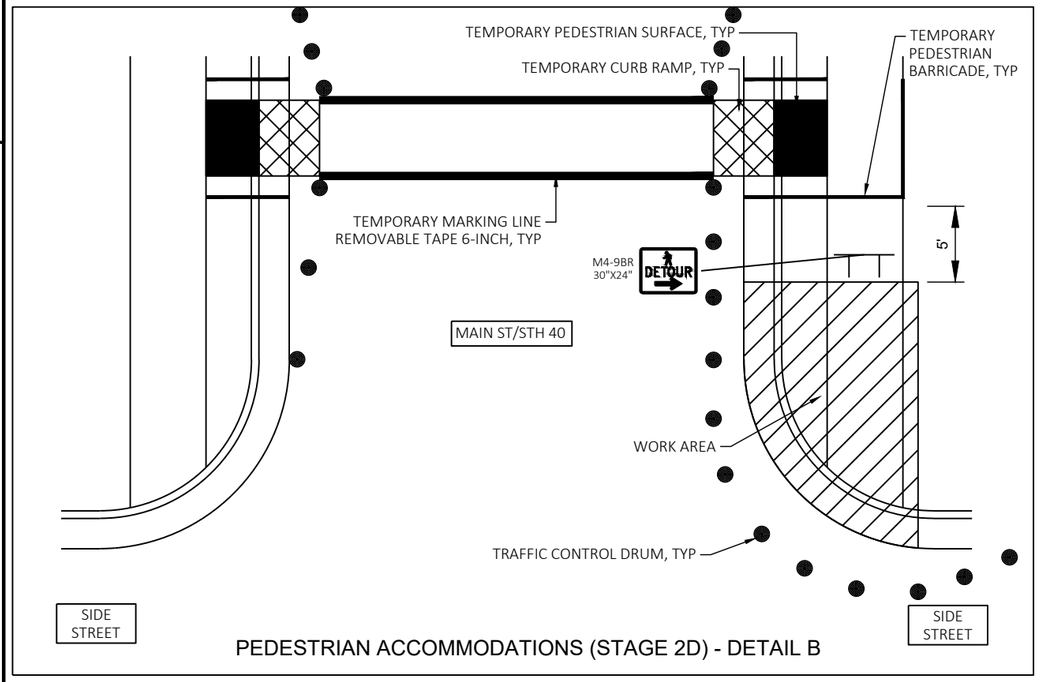
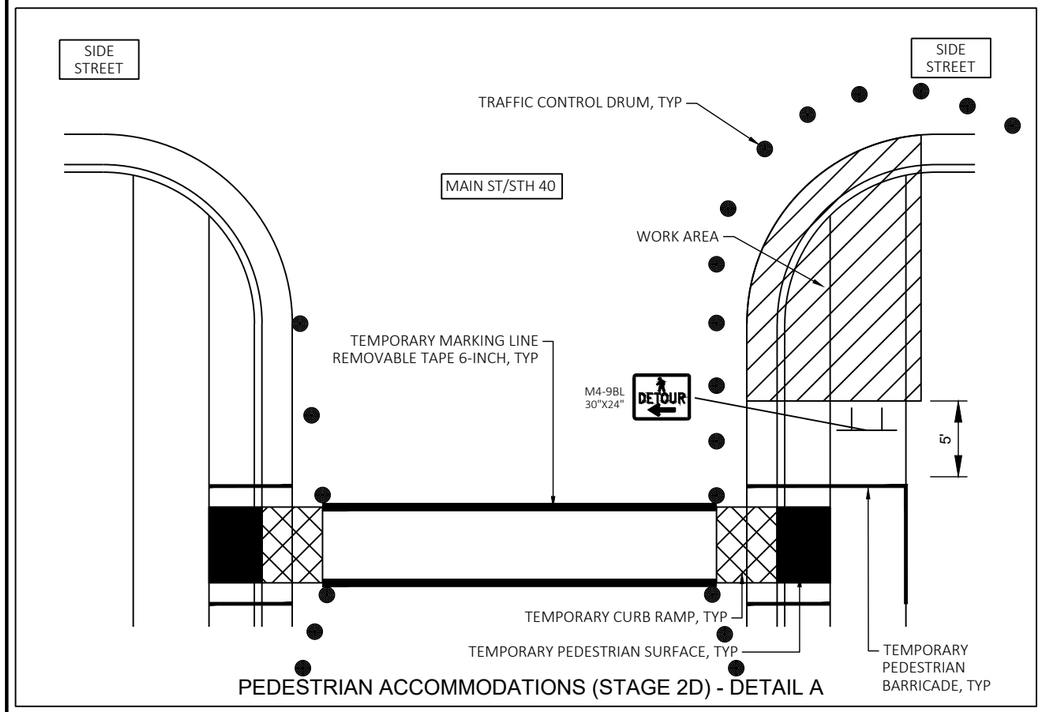
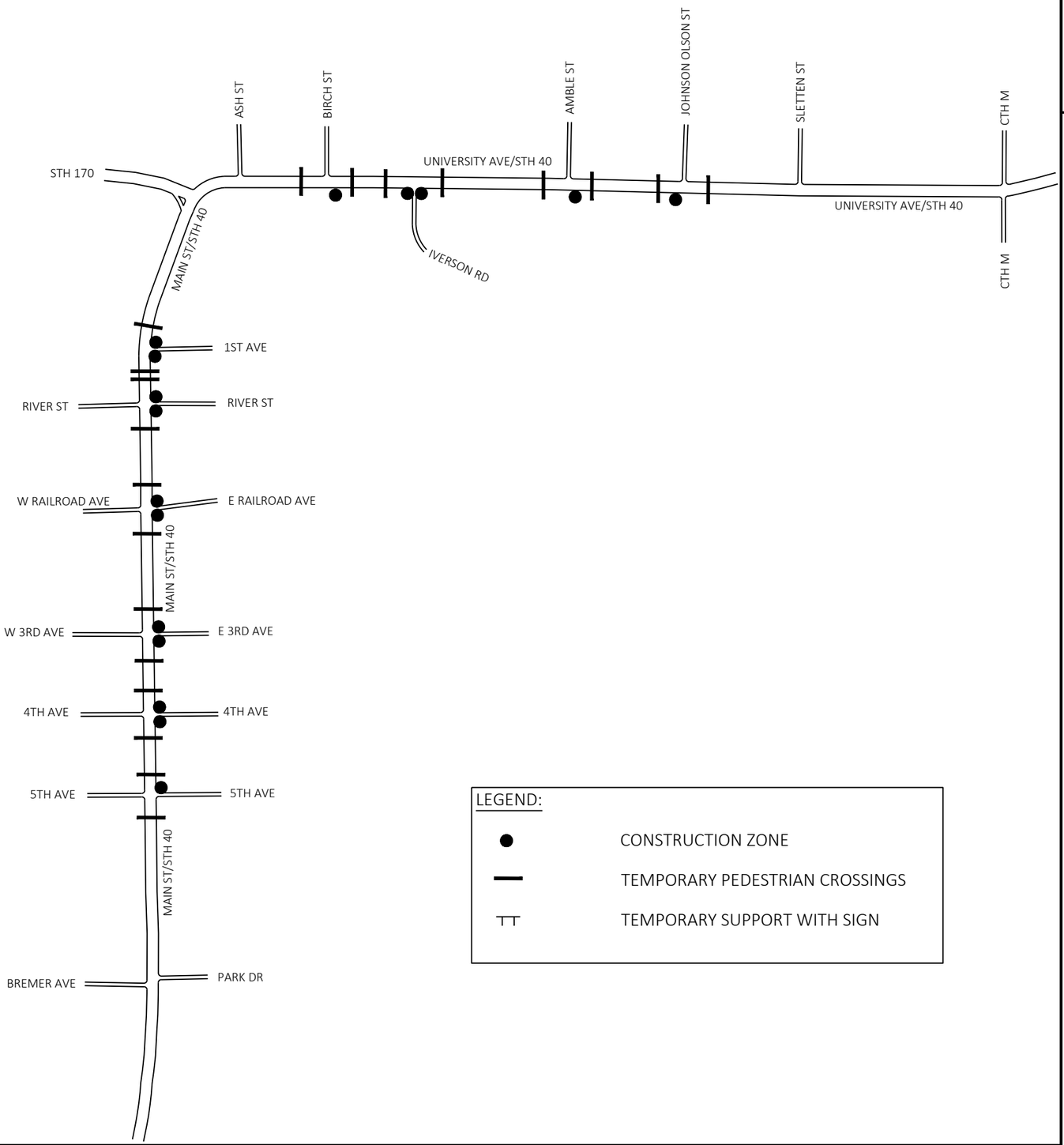
MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH YELLOW SHALL BE PLACED ON UPPER LAYER AFTER MILLING CENTERLINE RUMBLE STRIPS.



PEDESTRIAN ACCOMMODATIONS (STAGE 2D) - DETAIL B



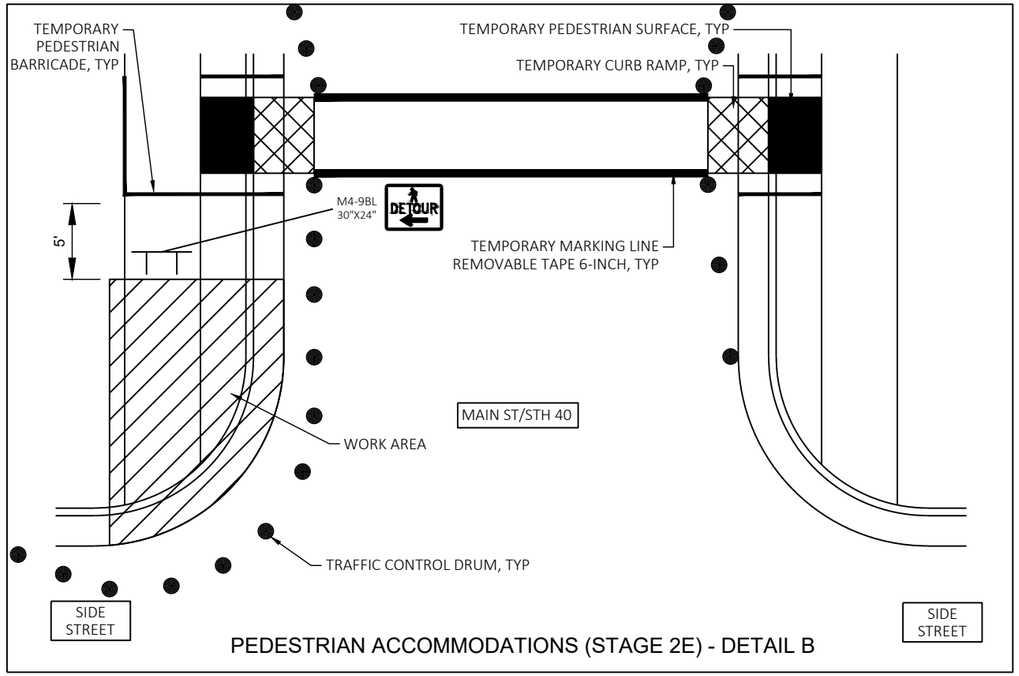
PEDESTRIAN ACCOMMODATIONS (STAGE 2D) - DETAIL A



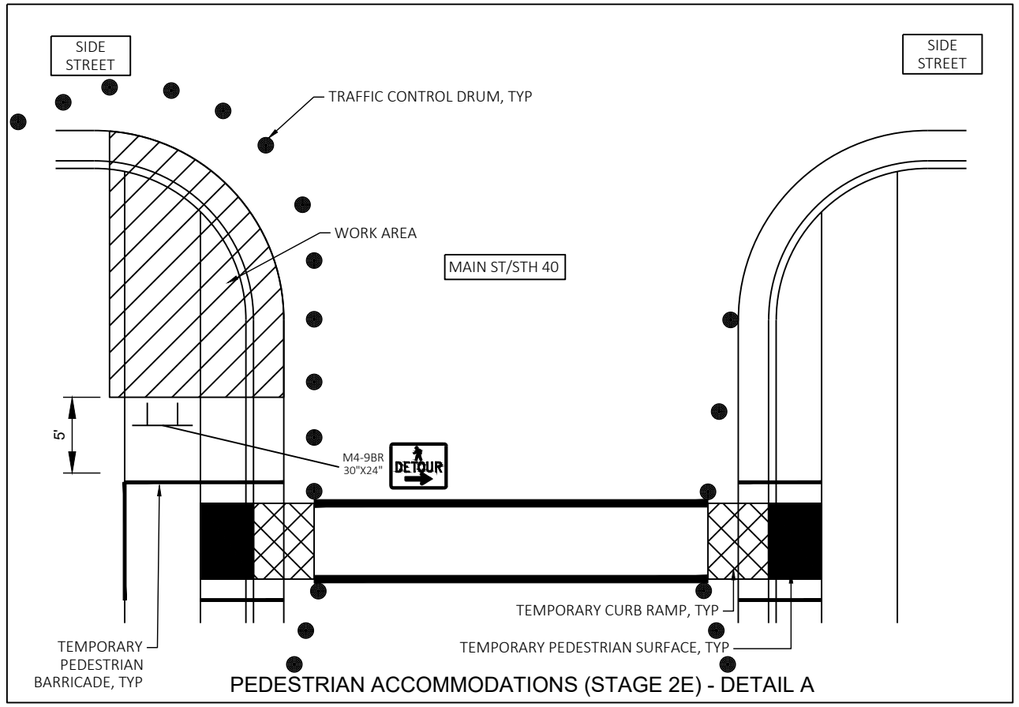
LEGEND:

- CONSTRUCTION ZONE
- TEMPORARY PEDESTRIAN CROSSINGS
- TEMPORARY SUPPORT WITH SIGN

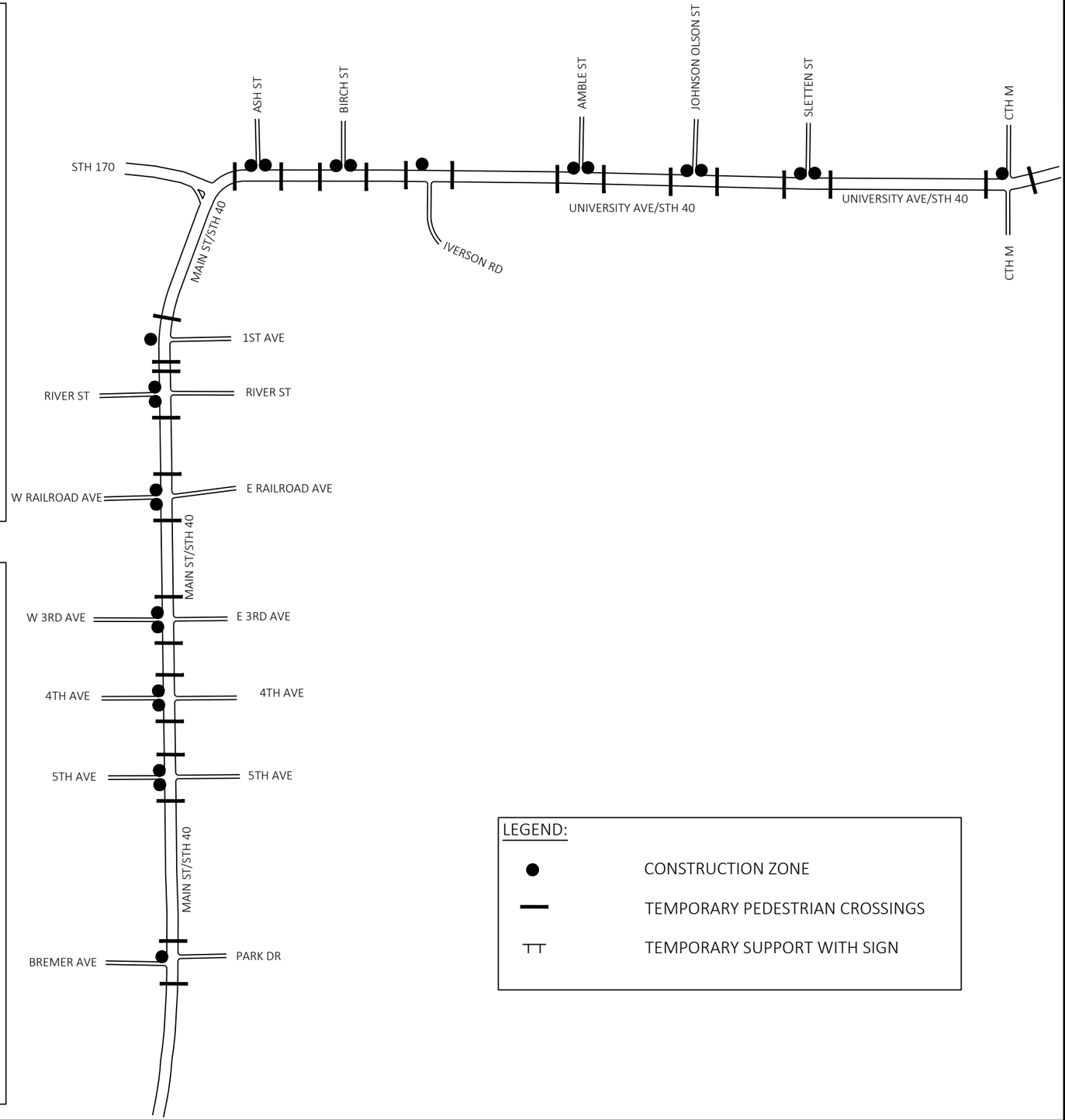
PROJECT NO: 7600-00-72/8620-00-75	HWY: USH 12/STH 40	COUNTY: DUNN	TRAFFIC CONTROL: PEDESTRIAN ACCOMMODATIONS	SHEET 126	E



PEDESTRIAN ACCOMMODATIONS (STAGE 2E) - DETAIL B



PEDESTRIAN ACCOMMODATIONS (STAGE 2E) - DETAIL A



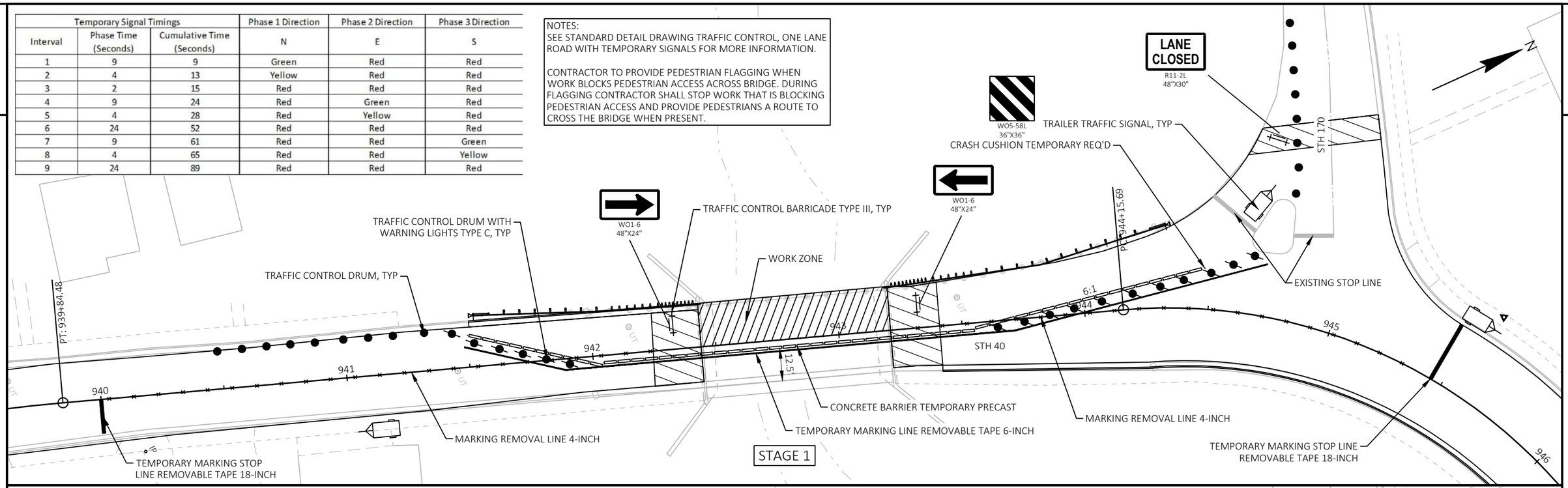
LEGEND:

- CONSTRUCTION ZONE
- TEMPORARY PEDESTRIAN CROSSINGS
- TEMPORARY SUPPORT WITH SIGN

Temporary Signal Timings			Phase 1 Direction	Phase 2 Direction	Phase 3 Direction
Interval	Phase Time (Seconds)	Cumulative Time (Seconds)	N	E	S
1	9	9	Green	Red	Red
2	4	13	Yellow	Red	Red
3	2	15	Red	Red	Red
4	9	24	Red	Green	Red
5	4	28	Red	Yellow	Red
6	24	52	Red	Red	Red
7	9	61	Red	Red	Green
8	4	65	Red	Red	Yellow
9	24	89	Red	Red	Red

NOTES:
SEE STANDARD DETAIL DRAWING TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS FOR MORE INFORMATION.

CONTRACTOR TO PROVIDE PEDESTRIAN FLAGGING WHEN WORK BLOCKS PEDESTRIAN ACCESS ACROSS BRIDGE. DURING FLAGGING CONTRACTOR SHALL STOP WORK THAT IS BLOCKING PEDESTRIAN ACCESS AND PROVIDE PEDESTRIANS A ROUTE TO CROSS THE BRIDGE WHEN PRESENT.



PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	TRAFFIC CONTROL	SHEET 128	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\025001_TC\025002_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 10/28/2025 9:11 AM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

N

1 — M1-6 24"X24" — 40 / ROAD WORK AHEAD — W20-1A

2 — MAX. 12' WIDTH — W12-52 48"X48"

3 — ONE LANE ROAD AHEAD — W20-4A

4 — W03-3

5 — STOP HERE ON RED — R10-6 24"X36"

6 — END ROAD WORK — G20-2A 48"X24"

LEGEND:

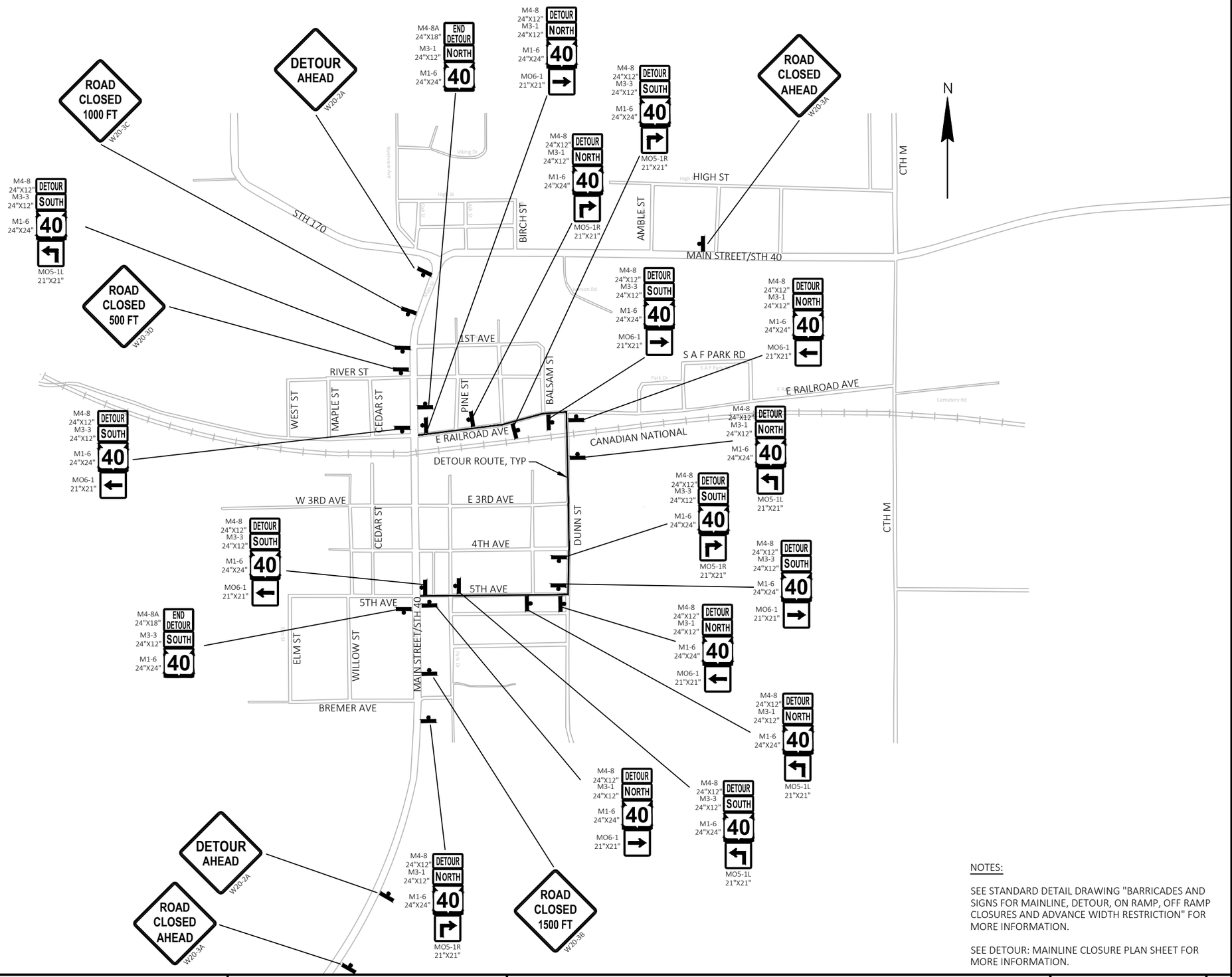
TRAFFIC CONTROL SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT

NOTES:
SEE STANDARD DETAIL DRAWING TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS FOR MORE INFORMATION.

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	TRAFFIC CONTROL	SHEET 129	E

2



NOTES:

SEE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCE WIDTH RESTRICTION" FOR MORE INFORMATION.

SEE DETOUR: MAINLINE CLOSURE PLAN SHEET FOR MORE INFORMATION.

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	DETOURS: ADVANCE SIGNING	SHEET 130	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\027001_DT\027001_DT.DWG
LAYOUT NAME - 01 (2)
PLOT DATE : 7/31/2025 4:28 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : Custom
WISDOT/CADDS SHEET 42

2

2

N

WEST ST

MAPLE ST

CEDAR ST

MAIN STREET/STH 40

PINE ST

BALSAM ST

EVERGREEN ST

DETOUR
M4-9L
30"X24"

ROAD CLOSED
R11-2
48"X30"

W RAILROAD AVE

E RAILROAD AVE

CANADIAN NATIONAL

ROAD CLOSED
R11-2
48"X30"

DUNN ST

DETOUR
M4-9R
30"X24"

W 3RD AVE

E 3RD AVE

DETOUR
M4-9L
30"X24"

ROAD CLOSED 500 FT
W20-3D

DETOUR ROUTE, TYP

4TH AVE

4TH AVE

MAIN STREET/STH 40

ROAD CLOSED 1000 FT
W20-3C

CEDAR ST

ROOSEVELT ST

DUNN ST

DETOUR
M4-9R
30"X24"

PARK DR

5TH AVE

5TH AVE

PLACE SIGNS AT PARK DRIVE INTERSECTION

NOTES:

SEE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCE WIDTH RESTRICTION" FOR MORE INFORMATION.

SEE DETOUR: ADVANCE WARNING PLAN SHEET FOR MORE INFORMATION.

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	DETOURS: MAINLINE CLOSURE	SHEET 131	E

Line	Item	Item Description	Unit	Total	7600-00-72 Qty	8620-00-75 Qty
0002	201.0105	Clearing	STA	46.000		46.000
0004	201.0205	Grubbing	STA	46.000		46.000
0006	203.0100	Removing Small Pipe Culverts	EACH	2.000		2.000
0008	203.0220	Removing Structure (structure) 01. 6'x3.5' Box Culvert	EACH	2.000		2.000
0010	203.0335	Debris Containment Over Waterway (structure) 01. B-17-984	EACH	1.000		1.000
0012	204.0109.S	Removing Concrete Surface Partial Depth 01. 8620-00-75	SF	6,690.000		6,690.000
0014	204.0110	Removing Asphaltic Surface	SY	680.000	680.000	
0016	204.0115	Removing Asphaltic Surface Butt Joints	SY	3,765.000	915.000	2,850.000
0018	204.0120	Removing Asphaltic Surface Milling	SY	238,130.000	32,600.000	205,530.000
0020	204.0150	Removing Curb & Gutter	LF	2,730.000	80.000	2,650.000
0022	204.0155	Removing Concrete Sidewalk	SY	795.000		795.000
0024	204.0165	Removing Guardrail	LF	13,259.000	645.000	12,614.000
0026	205.0100	Excavation Common	CY	2,730.000		2,730.000
0028	208.1500.S	Temporary Lane Shift During Culvert Work	EACH	4.000		4.000
0030	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 7600-00-72	EACH	1.000	1.000	
0032	211.0101	Prepare Foundation for Asphaltic Paving (project) 02. 8620-00-75	EACH	1.000		1.000
0034	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	780.000		780.000
0036	213.0100	Finishing Roadway (project) 01. 7600-00-72	EACH	1.000	1.000	
0038	213.0100	Finishing Roadway (project) 02. 8620-00-75	EACH	1.000		1.000
0040	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,490.000	450.000	3,040.000
0042	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	100.000		100.000
0044	416.0610	Drilled Tie Bars	EACH	15.000	15.000	
0046	455.0605	Tack Coat	GAL	26,450.000	1,670.000	24,780.000
0048	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000	
0050	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000	
0052	460.2005	Incentive Density PWL HMA Pavement	DOL	27,400.000	4,000.000	23,400.000
0054	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	51,290.000	5,420.000	45,870.000
0056	460.2010	Incentive Air Voids HMA Pavement	DOL	42,800.000	6,250.000	36,550.000
0058	460.6645	HMA Pavement 5 MT 58-34 V	TON	46,650.000	6,250.000	40,400.000
0060	460.9000.S	Material Transfer Vehicle	EACH	1.000	0.140	0.860
0062	465.0105	Asphaltic Surface	TON	12.000	12.000	
0064	465.0110	Asphaltic Surface Patching	TON	765.000		765.000
0066	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	70.000		70.000
0068	465.0310	Asphaltic Curb	LF	4,000.000		4,000.000
0070	465.0315	Asphaltic Flumes	SY	100.000		100.000
0072	465.0520	Asphaltic Rumble Strips, Shoulder	LF	77,020.000		77,020.000
0074	465.0560	Asphaltic Rumble Strips, Centerline	LF	43,830.000	5,330.000	38,500.000
0076	502.3101	Expansion Device	LF	80.000		80.000
0078	502.3200	Protective Surface Treatment	SY	36.000		36.000
0080	502.4205	Adhesive Anchors No. 5 Bar	EACH	74.000		74.000
0082	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	2,326.000		2,326.000
0084	505.0904	Bar Couplers No. 4	EACH	8.000		8.000
0086	505.0905	Bar Couplers No. 5	EACH	20.000		20.000
0088	505.0906	Bar Couplers No. 6	EACH	10.000		10.000
0090	509.1000	Joint Repair	SY	32.000		32.000
0092	509.1500	Concrete Surface Repair	SF	110.000		110.000
0094	509.2100.S	Concrete Masonry Deck Repair	CY	16.000		16.000
0096	513.9006.S	Removing and Resetting Tubular Railing (structure) 01. B-17-0984	EACH	1.000		1.000
0098	520.8700	Cleaning Culvert Pipes	EACH	11.000	7.000	4.000

Line	Item	Item Description	Unit	Total	7600-00-72 Qty	8620-00-75 Qty
0100	520.9700.S	Culvert Pipe Liners (size) 01. 36-Inch	LF	104.000		104.000
0102	520.9700.S	Culvert Pipe Liners (size) 02. 24-Inch	LF	74.000		74.000
0104	520.9750.S	Cleaning Culvert Pipes for Liner Verification	EACH	2.000		2.000
0106	522.0142	Culvert Pipe Reinforced Concrete Class III 42-Inch	LF	74.000		74.000
0108	522.0148	Culvert Pipe Reinforced Concrete Class III 48-Inch	LF	64.000		64.000
0110	522.0160	Culvert Pipe Reinforced Concrete Class III 60-Inch	LF	142.000		142.000
0112	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	2.000		2.000
0114	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	2.000		2.000
0116	522.1060	Apron Endwalls for Culvert Pipe Reinforced Concrete 60-Inch	EACH	4.000		4.000
0118	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	2,640.000		2,640.000
0120	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	80.000	80.000	
0122	601.0600	Concrete Curb Pedestrian	LF	82.000		82.000
0124	602.0405	Concrete Sidewalk 4-Inch	SF	3,100.000		3,100.000
0126	602.0415	Concrete Sidewalk 6-Inch	SF	3,935.000		3,935.000
0128	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	470.000		470.000
0130	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	175.000		175.000
0132	603.8000	Concrete Barrier Temporary Precast Delivered	LF	625.000		625.000
0134	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,250.000		1,250.000
0136	603.8505	Anchoring Concrete Barrier Temporary Precast on Bridge Decks	LF	150.000		150.000
0138	606.0200	Riprap Medium	CY	150.000		150.000
0140	611.0627	Inlet Covers Type HM	EACH	1.000		1.000
0142	611.8115	Adjusting Inlet Covers	EACH	21.000		21.000
0144	614.0010	Barrier System Grading Shaping Finishing	EACH	35.000	2.000	33.000
0146	614.0905	Crash Cushions Temporary	EACH	2.000		2.000
0148	614.2300	MGS Guardrail 3	LF	4,594.000	456.000	4,138.000
0150	614.2330	MGS Guardrail 3 K	LF	5,850.000		5,850.000
0152	614.2340	MGS Guardrail 3 L	LF	225.000		225.000
0154	614.2350	MGS Guardrail Short Radius	LF	161.000		161.000
0156	614.2500	MGS Thrie Beam Transition	LF	320.000	80.000	240.000
0158	614.2610	MGS Guardrail Terminal EAT	EACH	59.000	2.000	57.000
0160	614.2630	MGS Guardrail Short Radius Terminal	EACH	3.000		3.000
0162	618.0100	Maintenance and Repair of Haul Roads (project) 01. 7600-00-72	EACH	1.000	1.000	
0164	618.0100	Maintenance and Repair of Haul Roads (project) 02. 8620-00-75	EACH	1.000		1.000
0166	619.1000	Mobilization	EACH	1.000	0.140	0.860
0168	624.0100	Water	MGAL	35.000	5.000	30.000
0170	625.0100	Topsoil	SY	1,640.000	100.000	1,540.000
0172	628.1504	Silt Fence	LF	16,900.000	900.000	16,000.000
0174	628.1520	Silt Fence Maintenance	LF	8,450.000	450.000	8,000.000
0176	628.1905	Mobilizations Erosion Control	EACH	41.000	1.000	40.000
0178	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	1.000	2.000
0180	628.2008	Erosion Mat Urban Class I Type B	SY	1,640.000	100.000	1,540.000
0182	628.7015	Inlet Protection Type C	EACH	44.000		44.000
0184	628.7555	Culvert Pipe Checks	EACH	106.000	6.000	100.000
0186	629.0210	Fertilizer Type B	CWT	1.100	0.100	1.000
0188	630.0120	Seeding Mixture No. 20	LB	25.000	2.000	23.000
0190	630.0140	Seeding Mixture No. 40	LB	5.000		5.000
0192	630.0200	Seeding Temporary	LB	23.000	2.000	21.000
0194	630.0500	Seed Water	MGAL	41.000	3.000	38.000
0196	633.5200	Markers Culvert End	EACH	27.000	8.000	19.000

Line	Item	Item Description	Unit	Total	7600-00-72 Qty	8620-00-75 Qty
0198	638.2101	Moving Signs Type I	EACH	20.000		20.000
0200	638.4000	Moving Small Sign Supports	EACH	20.000		20.000
0202	642.5001	Field Office Type B	EACH	1.000	0.140	0.860
0204	643.0300	Traffic Control Drums	DAY	5,430.000	200.000	5,230.000
0206	643.0420	Traffic Control Barricades Type III	DAY	95.000		95.000
0208	643.0705	Traffic Control Warning Lights Type A	DAY	60.000		60.000
0210	643.0715	Traffic Control Warning Lights Type C	DAY	160.000		160.000
0212	643.0900	Traffic Control Signs	DAY	1,650.000	100.000	1,550.000
0214	643.1050	Traffic Control Signs PCMS	DAY	14.000		14.000
0216	643.3165	Temporary Marking Line Paint 6-Inch	LF	243,200.000	28,200.000	215,000.000
0218	643.3180	Temporary Marking Line Removable Tape 6-Inch	LF	675.000		675.000
0220	643.3350	Temporary Marking Crosswalk Removable Tape 6-inch	LF	1,360.000		1,360.000
0222	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	55.000		55.000
0224	643.5000	Traffic Control	EACH	1.000	0.140	0.860
0226	644.1440	Temporary Pedestrian Surface Matting	SF	1,000.000		1,000.000
0228	644.1601	Temporary Pedestrian Curb Ramp	DAY	280.000		280.000
0230	644.1810	Temporary Pedestrian Barricade	LF	1,200.000		1,200.000
0232	645.0120	Geotextile Type HR	SY	200.000		200.000
0234	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	188,900.000	29,900.000	159,000.000
0236	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	2,775.000	825.000	1,950.000
0238	646.5020	Marking Arrow Epoxy	EACH	18.000	8.000	10.000
0240	646.5120	Marking Word Epoxy	EACH	6.000	4.000	2.000
0242	646.5320	Marking Railroad Crossing Epoxy	EACH	4.000	2.000	2.000
0244	646.6120	Marking Stop Line Epoxy 18-Inch	LF	330.000	30.000	300.000
0246	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	2,650.000		2,650.000
0248	646.8120	Marking Curb Epoxy	LF	275.000	175.000	100.000
0250	646.8220	Marking Island Nose Epoxy	EACH	8.000	5.000	3.000
0252	646.9000	Marking Removal Line 4-Inch	LF	455.000		455.000
0254	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	2,720.000	80.000	2,640.000
0256	650.6000	Construction Staking Pipe Culverts	EACH	4.000		4.000
0258	650.8000	Construction Staking Resurfacing Reference	LF	56,150.000	8,250.000	47,900.000
0260	650.9000	Construction Staking Curb Ramps	EACH	56.000		56.000
0262	650.9911	Construction Staking Supplemental Control (project) 01. 7600-00-72	EACH	1.000	1.000	
0264	650.9911	Construction Staking Supplemental Control (project) 02. 8620-00-75	EACH	1.000		1.000
0266	661.0101	Temporary Traffic Signals for Bridges (structure) 01. B-17-984	EACH	1.000		1.000
0268	680.0100	Public Land Reference Monument Verify and Reset	EACH	6.000		6.000
0270	690.0150	Sawing Asphalt	LF	2,632.000	32.000	2,600.000
0272	690.0250	Sawing Concrete	LF	567.000	92.000	475.000
0274	740.0440	Incentive IRI Ride	DOL	42,800.000	6,250.000	36,550.000
0276	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 943+00	EACH	1.000		1.000
0278	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,500.000	2,500.000	
0280	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,000.000	2,000.000	
0282	SPV.0045	Special 01. Automated Flagger Assistance Device	DAY	165.000	50.000	115.000
0284	SPV.0060	Special 01. Grading, Shaping, and Finishing Culvert Pipes and Apron Endwalls	EACH	8.000		8.000
0286	SPV.0090	Special 01. Concrete Joint and Crack Cleaning and Repair	LF	100.000		100.000
0288	SPV.0090	Special 02. Flashing Stainless Steel	LF	75.000		75.000

7600-00-72 8620-00-75

3

REMOVING ASPHALTIC SURFACE

STATION - STATION	LOCATION	204.0110 SY	COMMENTS
501+74 - 501+94	LT	340	ASPHALT MEDIAN
504+41 - 504+61	LT	340	ASPHALT MEDIAN
TOTALS		**680**	

REMOVING ASPHALTIC SURFACE BUTT JOINTS

STATION - STATION	LOCATION	204.0115 SY	COMMENTS
432+72	CL	45	BEGIN PROJECT
441+99	RT	120	555TH AVE
460+36	LT	130	555TH AVE
463+17	CL	70	CROSSING 411776X
464+10	CL	70	CROSSING 411776X
480+98	RT	125	570TH AVE
481+98	LT	135	570TH AVE
493+93	RT	17	IH 29 RAMP
497+40	RT	3	IH 29 RAMP
501+74	CL	90	B-17-182
504+41	CL	90	B-17-182
509+10	RT	17	IH 29 RAMP
512+39	RT	3	IH 29 RAMP
TOTALS		**915**	

REMOVING ASPHALTIC SURFACE MILLING

STATION - STATION	LOCATION	204.0120 SY
432+72 - 463+17	LT/RT	11,200
464+10 - 501+74	LT/RT	16,000
504+41 - 515+04	LT/RT	5,400
TOTALS		**32,600**

3

REMOVING CURB AND GUTTER

STATION - STATION	LOCATION	204.0150 LF	COMMENTS
501+74 - 501+94	LT	40	ASPHALT MEDIAN
504+41 - 504+61	LT	40	ASPHALT MEDIAN
TOTAL		**80**	

REMOVING GUARDRAIL

STATION - STATION	LOCATION	204.0165 LF
CATEGORY CODE 0010		
498+50 - 501+75	RT	322
504+60 - 507+50	LT	323
TOTAL		**645**

DRILLED TIE BARS

STATION	LOCATION	416.0610 EACH
CATEGORY CODE 0010		
501+74 - 504+61	LT	15
TOTALS		**15**

BASE AGGREGATE DENSE ITEMS

STATION - STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	COMMENTS
CATEGORY CODE 0010			
432+72 - 515+04	LT/RT	450	SHOULDERS
432+72 - 515+04	LT/RT	15	DRIVEWAYS
TOTALS		**465**	

MISC. SHEET 1

3

ASPHALTIC ITEMS

STATION - STATION	LOCATION	455.0605 TACK COAT GAL	460.6645 HMA PAVEMENT 5 MT 58-34 V TON	465.0105 ASPHALTIC SURFACE TON
CATEGORY CODE 0010				
432+72 - 463+17	CL	575	2,150	--
464+10 - 501+74	CL	815	3,065	--
504+41 - 515+04	CL	275	1,035	--
432+72 - 515+04	PROJECT	5	--	12
	TOTALS	**1,670**	**6,250**	**12**

TEST STRIP ITEMS

	460.0105.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP VOLUMETRICS EACH	460.0110.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP DENSITY EACH
CATEGORY CODE 0010		
PROJECT 7600-00-72 / 8620-00-75	1	2
	1	**2**

3

PWL Mixture Use Table

LOCATION	STATION	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
12' Driving Lane	432+72 - 535+38	Upper Layer	5 MT 58-34 V	5 MT 58-34 V	2,891	1.50	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
12' Driving Lane	535+38 - 909+63	Upper Layer	5 MT 58-34 V	5 MT 58-34 V	10,251	1.50	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
14' Driving Lane	909+63 - 982+77	Upper Layer	5 MT 58-34 V	5 MT 58-34 V	2,292	1.50	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
12' Driving Lane	982+77 - 994+00	Upper Layer	5 MT 58-34 V	5 MT 58-34 V	370	1.50	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
12' Driving Lane	432+72 - 535+38	Lower Layer	Milled Existing HMA Surface	5 MT 58-34 V	3,373	1.75	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
12' Driving Lane	535+38 - 909+63	Lower Layer	Milled Existing HMA Surface	5 MT 58-34 V	11,959	1.75	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
14' Driving Lane	909+63 - 982+77	Lower Layer	Milled Existing HMA Surface	5 MT 58-34 V	2,674	1.75	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
12' Driving Lane	982+77 - 994+00	Lower Layer	Milled Existing HMA Surface	5 MT 58-34 V	431	1.75	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
3' Shoulder /Int.	432+72 - 535+38	Upper Layer	5 MT 58-34 V	5 MT 58-34 V	723	1.50	PWL Incentive Air Voids HMA Pavement 460.2010	Department Acceptance (SS 460.3.3.2) *Not Eligible for Incentive
5' Shoulder /Int.	535+38 - 909+63	Upper Layer	5 MT 58-34 V	5 MT 58-34 V	3,787	1.50	PWL Incentive Air Voids HMA Pavement 460.2010	Department Acceptance (SS 460.3.3.2) *Not Eligible for Incentive
6' Shoulder /Int.	909+63 - 982+77	Upper Layer	5 MT 58-34 V	5 MT 58-34 V	975	1.50	PWL Incentive Air Voids HMA Pavement 460.2010	Department Acceptance (SS 460.3.3.2) *Not Eligible for Incentive
5' Shoulder /Int.	982+77 - 994+00	Upper Layer	5 MT 58-34 V	5 MT 58-34 V	128	1.50	PWL Incentive Air Voids HMA Pavement 460.2010	Department Acceptance (SS 460.3.3.2) *Not Eligible for Incentive
3' Shoulder /Int.	432+72 - 535+38	Lower Layer	Milled Existing HMA Surface	5 MT 58-34 V	843	1.75	PWL Incentive Air Voids HMA Pavement 460.2010	Department Acceptance (SS 460.3.3.2) *Not Eligible for Incentive
5' Shoulder /Int.	535+38 - 909+63	Lower Layer	Milled Existing HMA Surface	5 MT 58-34 V	4,418	1.75	PWL Incentive Air Voids HMA Pavement 460.2010	Department Acceptance (SS 460.3.3.2) *Not Eligible for Incentive
6' Shoulder /Int.	909+63 - 982+77	Lower Layer	Milled Existing HMA Surface	5 MT 58-34 V	1,385	1.75	PWL Incentive Air Voids HMA Pavement 460.2010	Department Acceptance (SS 460.3.3.2) *Not Eligible for Incentive
5' Shoulder /Int.	982+77 - 994+00	Lower Layer	Milled Existing HMA Surface	5 MT 58-34 V	150	1.75	PWL Incentive Air Voids HMA Pavement 460.2010	Department Acceptance (SS 460.3.3.2) *Not Eligible for Incentive
Various	432+72 - 994+00	Culvert/Curb Replacements	Base Aggregate	Asphaltic Surface	765	6.00	(SS 465)	Ordinary Compaction (SS 450.3.2.6.2)

* STA 515+04 - STA 994+00 IS PAID UNDER PROJECT ID 8620-00-75

MISC. SHEET 2

ASPHALTIC RUMBLE STRIPS

STATION - STATION	LOCATION	465.0560 ASPHALTIC RUMBLE STRIPS CENTERLINE LF
CATEGORY CODE 0010		
432+72 - 515+04	CL	5,330
	TOTALS	**5,330**

CULVERT PIPE ITEMS

STATION	LOCATION	520.8700 CLEANING CULVERT PIPES EACH	633.5200 MARKERS CULVERT END EACH
CATEGORY CODE 0010			
464+85	LT/RT	1	2
491+08	RT	1	1
495+49	LT	1	1
498+96	LT	1	1
504+88	RT	1	1
509+87	RT	1	1
514+34	RT	1	1
	TOTALS	**7**	**8**

CONCRETE CURB AND GUTTER ITEMS

STATION - STATION	LOCATION	601.0555 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	COMMENTS
CATEGORY CODE 0010			
501+74 - 501+94	LT	40	ASPHALT MEDIAN
504+41 - 504+61	LT	40	ASPHALT MEDIAN
	TOTALS	**80**	

BEAMGUARD ITEMS

STATION - STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
CATEGORY CODE 0010				
432+72 - 515+04	LR/RT	456	80	2
	TOTAL	**456**	**80**	**2**

LANDSCAPING ITEMS

STATION - STATION	LOCATION	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEED MIX NO. 20 LBS	630.0500 SEED WATER MGAL	630.0200 SEEDING TEMPORARY LB	COMMENTS
CATEGORY CODE 0010							
432+72 - 515+04	LT/RT	100	0.10	2	3	2	CULVERT
	TOTALS	**100**	**0.10**	**2**	**3**	**2**	

WATER

LOCATION	624.0100 WATER MGAL	COMMENTS
CATEGORY CODE 0010		
7600-00-72	5	
TOTALS	**5**	

BARRIER SYSTEM GRADING SHAPING FINISHING

STATION - STATION	LOCATION	614.0010* EACH
CATEGORY CODE 0010		
432+72 - 515+04	LT/RT	2
	TOTAL	**2**

* SEE BARRIER SYSTEM ESTIMATED QUANTITIES TABLES FOR MORE INFORMATION

SILT FENCE ITEMS

STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 MAINTENANCE LF
CATEGORY CODE 0010			
432+72 - 515+04	LT/RT	900	450
	TOTALS	**900**	**450**

MOBILIZATIONS EROSION CONTROL

STATION	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
CATEGORY CODE 0010			
432+72 - 515+04	LT & RT	1	1
	TOTALS	**1**	**1**

MISC. SHEET 3

EROSION MAT ITEMS

STATION - STATION	LOCATION	628.2008 URBAN CLASS 1 TYPE B SY
CATEGORY CODE 0010		
432+72 - 515+04	LT & RT	100
	TOTALS	**100**

PIPE CHECK ITEMS

STATION	LOCATION	628.7555 CULVERT PIPE CHECKS EACH
CATEGORY CODE 0010		
432+72 - 515+04	LT/RT	6
	TOTAL	**6**

TRAFFIC CONTROL ITEMS

LOCATION	643.0300 DRUMS DAYS	643.0900 SIGNS DAYS	SPV.0045.01 AUTOMATED FLAGGER ASSISTANCE DEVICE DAYS
CATEGORY CODE 0010			
432+72 - 515+04	200	100	--
CATEGORY 0010 SUBTOTAL	200	100	--
CATEGORY CODE 0020			
437+72 - 515+04	--	--	50
CATEGORY 0020 SUBTOTAL	--	--	50
TOTALS	**200**	**100**	**50**

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MARKING LINE ITEMS

STATION - STATION	LOCATION	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.5320 MARKING RAILROAD CROSSING EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH LF
CATEGORY CODE 0010										
432+72 - 515+04	LT/RT/CL	29,900	825	8	4	2	30	175	5	28,200
	TOTALS	**29,900**	**825**	**8**	**4**	**2**	**30**	**175**	**5**	**28,200**

CONSTRUCTION STAKING ITEMS

STATION - STATION	LOCATION	650.8000 RESURFACING REFERENCE LF	650.5500 CURB GUTTER CURB & GUTTER LF
CATEGORY CODE 0010			
432+72 - 515+04	CL	8,250	80
	TOTALS	**8,250**	**80**

BARRIER SYSTEM ESTIMATED QUANTITIES TABLES

LOCATION	EXCAVATION COMMON* CY	BORROW* CY	TOPSOIL* SY	FERTILIZER* CWT	SEEDING* LBS	EROSION MAT* SY	SEED WATER* MGAL	SEEDING TEMPORARY* LBS	SLOPE STAKING* LF
STA 498+61 TO STA 501+75 RT	47	84	318	0.2	5.8	318	7.6	4.3	314

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON* CY	BORROW* CY	TOPSOIL* SY	FERTILIZER* CWT	SEEDING* LBS	EROSION MAT* SY	SEED WATER* MGAL	SEEDING TEMPORARY* LBS	SLOPE STAKING* LF
STA 504+55 TO STA 507+73 LT	47	101	381	0.24	6.8	381	9.1	5.1	318

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

SAWING ITEMS

LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
CATEGORY CODE 0010		
432+72 - 515+04	32	92
TOTALS	**32**	**92**

MISC. SHEET 4

CLEARING AND GRUBBING

STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
CATEGORY CODE 0010			
557+00 - 560+00	RT	4	4
558+00 - 560+00	LT	3	3
562+00 - 563+00	LT	2	2
567+00 - 570+00	RT	4	4
568+00 - 570+00	LT	3	3
571+00 - 573+00	LT	3	3
573+00 - 575+00	RT	3	3
663+00 - 667+00	LT	5	5
679+00	LT	1	1
685+00	RT	1	1
738+00	LT	1	1
738+00	RT	1	1
795+00 - 800+00	LT	6	6
808+00 - 809+00	LT	2	2
811+00	RT	1	1
812+00	LT	1	1
833+00	LT	1	1
835+00	LT	1	1
854+00	LT	1	1
856+00	RT	1	1
858+00	LT	1	1
TOTALS		**46**	**46**

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	COMMENTS
CATEGORY CODE 0010			
619+53	LT/RT	1	42-INCH RCCP
631+47	LT/RT	1	48-INCH RCCP
TOTALS		**2**	

REMOVING STRUCTURE

STATION	LOCATION	203.0220 REMOVING STRUCTURE EACH	COMMENTS
CATEGORY CODE 0010			
664+84	LT/RT	1	6'X3.5' BOX CULVERT
679+60	LT/RT	1	6'X3.5' BOX CULVERT
TOTALS		**2**	

REMOVING CONCRETE SURFACE PARTIAL DEPTH

STATION	LOCATION	204.0109.S SF	COMMENTS
CATEGORY CODE 0010			
909+95 - 914+45	LT	900	GUTTER MILL
921+78 - 924+50	LT	544	GUTTER MILL
931+00 - 934+70	LT	740	GUTTER MILL
931+00 - 934+70	RT	740	GUTTER MILL
937+79 - 941+51	LT	744	GUTTER MILL
938+06 - 942+44	RT	876	GUTTER MILL
947+00 - 954+60	RT	1,520	GUTTER MILL
947+63 - 950+74	LT	622	GUTTER MILL
TOTALS		**6,690**	

REMOVING ASPHALTIC SURFACE MILLING

STATION - STATION	LOCATION	204.0120 SY	COMMENTS
CATEGORY CODE 0010			
515+04 - 766+45	LT/RT	105,620	MAINLINE
766+83 - 928+88	LT/RT	62,890	MAINLINE
929+62 - 942+44	LT/RT	3,270	MAINLINE
943+21 - 994+00	LT/RT	23,620	MAINLINE
515+04 - 994+00	LT/RT	3,630	DRIVEWAYS
CATEGORY 0010 SUBTOTAL		199,030	
CATEGORY CODE 0020			
917+65 - 982+77	LT/RT	6,500	PARKING LANES
CATEGORY 0020 SUBTOTAL		6,500	
TOTALS		**205,530**	

REMOVING ASPHALTIC SURFACE BUTT JOINTS

STATION - STATION	LOCATION	204.0115 SY	COMMENTS
516+75	RT	130	870TH ST
539+59	LT	125	870TH ST
551+52	RT	3	DWY
556+96	RT	4	DWY
560+91	LT	35	620TH AVE
565+50	RT	5	DWY
586+68	LT	4	DWY
591+06	LT	4	DWY
596+82	LT	35	647TH AVE
597+43	RT	25	648TH AVE
599+76	LT	3	DWY
603+39	RT	30	652ND AVE
613+64	RT	5	DWY
638+03	RT	120	906TH ST
652+24	RT	35	CTH E/690TH AVE
652+72	LT	130	690TH AVE
661+53	RT	5	DWY
666+72	RT	7	DWY
677+43	LT	4	DWY
692+15	LT	4	DWY
703+95	LT	6	DWY
709+89	RT	35	730TH AVE
712+06	LT	5	DWY
737+11	LT	5	DWY
743+89	LT	4	DWY
758+89	RT	35	760TH AVE
766+25	CL	170	B-17-120
767+03	CL	170	B-17-120
772+30	LT	35	770TH AVE
773+39	RT	25	771ST AVE
784+75	RT	5	DWY
824+34	RT	130	810TH AVE
824+34	LT	130	810TH AVE
853+20	RT	3	DWY
862+22	LT	4	DWY
872+17	RT	6	DWY
882+41	RT	35	855TH AVE
904+29	RT	9	DWY
909+22	LT	75	BREMER AVE
909+53	RT	130	PARK DR
917+74	RT	35	5TH AVE
917+78	LT	45	5TH AVE
921+34	RT	45	4TH AVE
921+35	LT	40	4TH AVE
924+94	RT	40	3RD AVE
924+99	LT	45	3RD AVE
930+58	LT	40	RAILROAD AVE
930+59	RT	40	RAILROAD AVE
935+24	LT	70	RIVER ST
935+24	RT	50	RIVER ST
937+69	RT	20	1ST AVE
942+45	CL	70	B-17-984
943+20	CL	70	B-17-984
944+79	LT	55	STH 170
947+21	LT	40	ASH ST
951+14	LT	40	BIRCH ST
955+10	RT	30	IVERSON RD
962+12	LT	35	AMBLE ST
967+32	LT	30	JOHNSON OLSON ST
972+51	LT	30	SLETTEN ST
981+64	RT	120	CTH M
981+89	LT	90	CTH M
994+00	CL	40	END PROJECT
TOTALS		**2,850**	

MISC. SHEET 1

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REMOVING CURB AND GUTTER

STATION - STATION	LOCATION	204.0150 LF	COMMENTS
909+50	LT	70	CURB RAMP
917+50 - 918+00	LT&RT	120	CURB RAMP
918+96 - 919+00	LT	4	REPLACEMENT
920+85	LT	9	INLET ADJUSTMENT
921+00 - 921+75	LT&RT	165	CURB RAMP
924+50 - 925+50	LT&RT	170	CURB RAMP
927+25 - 927+67	RT	44	REPLACEMENT
927+57 - 928+67	LT	110	REPLACEMENT
928+50 - 929+75	LT&RT	120	CURB RAMP
930+15 - 930+95	LT&RT	175	CURB RAMP
934+73 - 935+70	LT&RT	190	CURB RAMP
937+36 - 938+03	LT&RT	130	CURB RAMP
941+51 - 942+45	LT	94	GUARDRAIL
943+41 - 947+00	RT	359	REPLACEMENT
946+72 - 947+78	LT	100	CURB RAMP
950+69 - 951+55	LT&RT	95	CURB RAMP
954+62 - 955+56	LT&RT	110	CURB RAMP
956+70	RT	9	INLET ADJUSTMENT
961+64 - 962+61	LT&RT	110	CURB RAMP
961+80 - 962+00	RT	20	REPLACEMENT
964+00 - 964+40	RT	40	REPLACEMENT
965+55	RT	9	INLET ADJUSTMENT
966+50 - 967+50	LT	50	REPLACEMENT
966+50 - 967+50	RT	50	REPLACEMENT
966+92 - 967+77	LT&RT	100	CURB RAMP
972+10 - 972+81	LT	80	CURB RAMP
977+40 - 977+60	LT	20	REPLACEMENT
980+32 - 980+50	LT	18	REPLACEMENT
981+32 - 981+65	LT	75	CURB RAMP
TOTAL		**2,650**	

EXCAVATION COMMON

STATION - STATION	205.0100 EXCAVATION COMMON CY	COMMENTS
CATEGORY CODE 0010		
619+53	725	CULVERT REPLACEMENT
631+47	605	CULVERT REPLACEMENT
664+84	690	CULVERT REPLACEMENT
679+60	610	CULVERT REPLACEMENT
909+50 - 981+50	100	CURB REPLACEMENT
TOTAL	**2,730**	

REMOVING CONCRETE SIDEWALK

STATION - STATION	LOCATION	204.0155 SF	SY	COMMENTS
909+50 - 910+00	LT	156	17	NW
917+50 - 918+00	LT & RT	119	13	SW
		148	16	NW
		80	9	NE
921+00 - 921+50	LT & RT	189	21	SW
		138	15	NW
		146	16	NE
		153	17	SE
924+50 - 925+50	LT & RT	157	17	SW
		137	15	NW
		225	25	NE
		206	23	SE
928+80 - 929+70	LT & RT	180	20	SW RAILROAD
		124	14	NW RAILROAD
		90	10	NE RAILROAD
		101	11	SE RAILROAD
930+00 - 931+00	LT & RT	127	14	SW
		184	20	NW
		215	24	NE
		134	15	SE
934+75 - 935+60	LT & RT	285	32	SW
		205	23	NW
		282	31	NE
		290	32	SE
937+45 - 938+00	LT & RT	397	44	W
		200	22	SE
		198	22	NE
946+75 - 947+75	LT	123	14	NW
		157	17	NE
950+75 - 951+50	LT & RT	115	13	NW
		171	19	NE
		111	12	SE
954+50 - 955+55	LT & RT	112	12	NW
		173	19	SW
		133	15	SE
961+50 - 962+50	LT & RT	141	16	NW
		144	16	NE
		101	11	SE
967+00 - 968+75	LT & RT	90	10	SW
		161	18	NW
		147	16	NE
972+00 - 973+00	LT	126	14	NW
		171	19	NE
981+50	LT	141	16	NW
TOTAL		**795**		

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

STATION - STATION	LOCATION	211.0400 STA	COMMENTS
CATEGORY CODE 0030			
535+38 - 766+45	LT/RT	464	
766+83 - 909+63	LT/RT	288	
982+77 - 994+00	LT/RT	28	
TOTAL		**780**	

REMOVING GUARDRAIL

STATION - STATION	LOCATION	204.0165 LF
CATEGORY CODE 0010		
557+20 - 563+60	LT & RT	963
566+15 - 575+00	LT & RT	1,519
663+45 - 665+80	LT & RT	485
678+25 - 680+75	LT & RT	447
684+25 - 687+15	LT & RT	610
737+50 - 739+50	LT & RT	360
765+60 - 767+75	LT & RT	429
791+50 - 799+60	LT & RT	1,383
807+75 - 811+90	LT & RT	759
832+40 - 835+00	LT & RT	560
853+75 - 862+65	LT & RT	1,571
875+00 - 889+00	LT & RT	2,563
901+05 - 902+55	LT & RT	335
942+00 - 944+10	LT	251
984+75 - 988+50	RT	381
TOTAL		**12,614**

BASE AGGREGATE DENSE ITEMS

STATION - STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	COMMENTS
CATEGORY CODE 0010				
515+04 - 994+00	LT/RT	2,900	--	SHOULDERS
515+04 - 994+00	LT/RT	140	--	DRIVEWAYS
928+88 - 929+62	CL	--	100	692959P
TOTALS		**3,040**	**100**	

MISC. SHEET 2

ASPHALTIC ITEMS

STATION - STATION	LOCATION	455.0605 TACK COAT GAL	460.6645 HMA PAVEMENT 5 MT 58-34 V TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0310 ASPHALTIC CURB LF	465.0315 ASPHALTIC FLUMES SY	COMMENTS
CATEGORY CODE 0010								
515+04 - 766+45	CL	12,550	19,750	--	--	--	--	
766+83 - 928+88	CL	6,890	10,900	--	--	--	--	
929+62 - 942+44	CL	770	1,350	--	--	--	--	
943+21 - 994+00	CL	2,800	4,550	--	--	--	--	
515+04 - 994+00	LT/RT	50	--	--	70	--	--	DRIVEWAYS
515+04 - 994+00	LT/RT	--	--	--	--	4,000	100	GUARDRAIL
515+04 - 994+00	PROJECT	--	--	700	--	--	--	CULVERTS
909+50 - 981+50	LT/RT	--	--	65	--	--	--	CURB REPLACEMENT
CATEGORY 0010 SUBTOTALS		23,060	36,550	765	70	4,000	100	
CATEGORY CODE 0020								
917+65 - 982+77	LT/RT	820	600	--	--	--	--	
CATEGORY 0020 SUBTOTALS		820	600	--	--	--	--	
CATEGORY CODE 0030								
535+38 - 994+00	LT/RT	900	3,250	--	--	--	--	
CATEGORY 0030 SUBTOTALS		900	3,250	--	--	--	--	
TOTALS		**24,780**	**40,400**	**765**	**70**	**4,000**	**100**	

ASPHALTIC RUMBLE STRIPS

STATION - STATION	LOCATION	465.0560 ASPHALTIC RUMBLE STRIPS CENTERLINE LF	465.0520 ASPHALTIC RUMBLE STRIPS SHOULDER LF
CATEGORY CODE 0010			
535+38 - 909+63	CL	37,425	--
982+77 - 994+00	CL	1,123	--
CATEGORY 0010 SUBTOTALS		38,500	--
CATEGORY CODE 0030			
515+04 - 994+00	LT/RT	--	77,020
CATEGORY 0030 SUBTOTALS		--	77,020
TOTALS		**38,500**	**77,020**

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CULVERT PIPE ITEMS

STATION	LOCATION	208.1500.S TEMP LANE SHIFT DURING CULVERT WORK EACH	520.8700 CLEANING CULVERT PIPES EACH	520.9700.S CULVERT PIPE LINERS (01. 36-INCH)[1] LF	520.9700.S CULVERT PIPE LINERS (02. 24-INCH)[2] LF	520.9750.S CLEANING CULVERT PIPES FOR LINER VERIFICATION EACH	522.0142* CULVERT PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	522.0148* CULVERT PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	522.0160* CULVERT PIPE REINFORCED CONCRETE CLASS III 60-INCH LF	522.1042 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH EACH	522.1048 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH EACH	522.1060 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 60-INCH EACH	633.5200 MARKERS CULVERT END EACH
CATEGORY CODE 0010													
523+25	RT	--	1	--	--	--	--	--	--	--	--	--	1
536+15	LT/RT	--	1	--	--	--	--	--	--	--	--	--	2
619+53	LT/RT	1	--	--	--	--	74	--	--	2	--	--	2
631+47	LT/RT	1	--	--	--	--	--	64	--	--	2	--	2
664+84	LT/RT	1	--	--	--	--	--	--	72	--	--	2	2
679+60	LT/RT	1	--	--	--	--	--	--	70	--	--	2	2
704+25	LT/RT	--	1	--	--	--	--	--	--	--	--	--	2
782+29	LT/RT	--	--	104	--	1	--	--	--	--	--	--	2
811+02	LT/RT	--	--	--	74	1	--	--	--	--	--	--	2
871+20	LT/RT	--	1	--	--	--	--	--	--	--	--	--	2
TOTALS		**4**	**4**	**104**	**74**	**2**	**74**	**64**	**142**	**2**	**2**	**4**	**19**

* JOINT TIES ACROSS ENTIRE LENGTH

[1] 104 LF OF CMCP 36-INCH AT 4.2%

[2] 74 LF OF CMCP 24-INCH AT 9.2%

MISC. SHEET 3

CONCRETE CURB AND GUTTER ITEMS

STATION - STATION	LOCATION	601.0411 CONCRETE CURB & 30-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF
CATEGORY CODE 0010			
909+50	LT	70	--
917+50 - 918+00	LT&RT	120	--
918+96 - 919+00	LT	4	--
920+85	LT	6	--
921+00 - 921+75	LT&RT	165	--
924+50 - 925+50	LT&RT	170	--
927+25 - 927+67	RT	44	--
927+57 - 928+67	LT	110	--
928+50 - 929+75	LT&RT	120	--
930+15 - 930+95	LT&RT	175	--
934+73 - 935+70	LT&RT	190	50
937+36 - 938+03	LT&RT	130	15
941+51 - 942+45	LT	94	--
943+41 - 947+00	RT	359	--
946+72 - 947+78	LT	100	--
950+69 - 951+55	LT&RT	95	--
954+62 - 955+56	LT&RT	110	--
956+70	RT	6	--
961+64 - 962+61	LT&RT	110	--
961+80 - 962+00	RT	20	--
964+00 - 964+40	RT	40	--
965+55	RT	6	--
966+50 - 967+50	LT	50	--
966+50 - 967+50	RT	50	--
966+92 - 967+77	LT&RT	100	--
972+10 - 972+81	LT	80	--
977+40 - 977+60	LT	20	--
980+32 - 980+50	LT	18	--
981+32 - 981+65	LT	75	17
	TOTALS	**2,640**	**82**

TEMPORARY CONCRETE BARRIER PRECAST

STATION	LOCATION	603.8000 TEMPORARY PRECAST DELIVERED LF	603.8125 TEMPORARY PRECAST INSTALLED LF	603.8505 ANCHORING TEMP PRECAST LF
CATEGORY CODE 0010				
942+45 - 943+20	LT/RT	625	1,250	150
	TOTALS	**625**	**1,250**	**150**

CONCRETE SIDEWALK ITEMS

STATION - STATION	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0415 CONCRETE SIDEWALK 6-INCH SF	602.0505 DETECTABLE WARNING FIELD YELLOW SF	602.0605 DETECTABLE WARNING FIELD RADIAL YELLOW SF
CATEGORY CODE 0030					
909+75	LT	40	100	--	20
917+50 - 918+25	SW	45	65	10	--
	NW	45	95	20	--
	NE	25	50	10	--
920+75 - 921+75	SW	80	95	20	--
	NW	30	95	20	--
	NE	30	100	20	--
	SE	45	95	20	--
924+50 - 925+50	SW	50	95	20	--
	NW	195	95	20	--
	NE	105	105	20	--
	SE	125	110	20	--
928+67 - 929+70	SW	145	20	10	--
	NW	115	20	10	--
	NE	70	20	10	--
	SE	80	20	10	--
930+10 - 931+00	SW	55	75	10	--
	NW	70	125	10	--
	NE	35	115	10	--
	SE	60	80	10	--
934+70 - 935+75	SW	115	175	10	--
	NW	75	135	10	--
	NE	75	215	10	--
	SE	100	195	10	--
937+35 - 938+05	W	270	130	10	--
	NE	80	130	10	--
	SE	80	130	10	--
946+70 - 947+75	NW	50	65	--	24
	NE	45	90	--	22
950+75 - 951+55	NW	40	70	10	--
	NE	75	45	10	--
	SE	60	50	10	--
954+60 - 955+55	N	60	45	10	--
	SW	65	85	20	--
	SE	20	90	--	22
961+65 - 962+62	NW	35	90	--	22
	NE	35	110	10	22
	S	50	45	10	--
966+88 - 967+77	S	35	45	10	--
	NW	90	75	10	--
	NE	65	75	10	--
972+08 - 973+02	NW	10	115	10	--
	NE	90	70	--	22
981+32 - 981+60	LT	35	85	--	21
		3,100	**3,935**	**470**	**175**

3

MISC. SHEET 4

RIPRAP AND GEOTEXTILE FABRIC ITEMS

STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
CATEGORY CODE 0010			
558+04	LT	10	14
566+66	RT	10	13
567+04	RT	10	13
572+50	RT	10	14
792+08	LT	10	13
792+51	RT	10	13
795+00	LT	10	14
795+50	RT	10	13
798+50	RT	10	13
856+11	RT	10	14
859+00	RT	10	13
878+50	LT	10	13
881+50	LT	10	14
883+00	LT	10	13
885+00	LT	10	13
	TOTALS	**150**	**200**

INLET ITEMS

STATION	LOCATION	611.0627 INLET COVERS TYPE HM EACH	611.8115 ADJUSTING INLET COVERS EACH
CATEGORY CODE 0010			
920+85	LT	--	1
925+35	RT	--	1
925+37	LT	--	1
930+38	LT	--	1
930+39	RT	--	1
934+86	RT	--	1
934+95	LT	1	--
934+99	LT	--	1
937+45	RT	--	1
934+65	LT	--	1
937+95	RT	--	1
954+69	RT	--	1
956+70	RT	--	1
961+75	LT	--	1
961+93	LT	--	1
962+33	LT	--	1
965+55	RT	--	1
966+94	LT	--	1
972+36	LT	--	1
972+67	LT	--	1
972+84	LT	--	1
981+58	LT	--	1
	TOTALS	**1**	**21**

BARRIER SYSTEM GRADING SHAPING FINISHING

STATION - STATION	LOCATION	614.0010* EACH
CATEGORY CODE 0010		
515+04 - 994+00	LT/RT	33
	TOTAL	**33**

* SEE BARRIER SYSTEM ESTIMATED QUANTITIES TABLES FOR MORE INFORMATION

LANDMARK REFERENCE MONUMENTS

STATION	LOCATION	680.0100 PUBLIC LAND SURVEY MONUMENT VERIFY AND RESET EACH
CATEGORY CODE 0010		
515+04 - 994+00	PROJECT	6
	TOTALS	**6**

BEAMGUARD ITEMS

STATION - STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2330 MGS GUARDRAIL 3 K LF	614.2340 MGS GUARDRAIL 3 L LF	614.2350 MGS GUARDRAIL SHORT RADIUS LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2630 MGS GUARDRAIL SHORT RADIUS TERMINAL EACH
CATEGORY CODE 0010								
515+04 - 994+00	LT/RT	4,138	5,850	225	161	240	57	3
	TOTAL	**4,138**	**5,850**	**225**	**161**	**240**	**57**	**3**

WATER

LOCATION	624.0100 WATER MGAL	COMMENTS
CATEGORY CODE 0010		
8620-00-75	30	
TOTALS	**30**	

MISC. SHEET 5

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LANDSCAPING ITEMS

STATION - STATION	LOCATION	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEED MIX NO. 20 LBS	630.0140 SEED MIX NO. 40 LBS	630.0500 SEED WATER MGAL	630.0200 SEEDING TEMPORARY LB	COMMENTS
CATEGORY CODE 0010								
515+04 - 994+00	LT/RT	1,255	0.81	23	--	31	17	CULVERTS
909+50 - 981+50	LT/RT	285	0.19	--	5	7	4	CURB RAMPS
	TOTALS	**1,540**	**1.00**	**23**	**5**	**38**	**21**	

SILT FENCE ITEMS

STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 MAINTENANCE LF
CATEGORY CODE 0010			
515+04 - 994+00	LT/RT	16,000	8,000
	TOTALS	**16,000**	**8,000**

3

MOBILIZATIONS EROSION CONTROL

STATION	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
CATEGORY CODE 0010			
515+04 - 994+00	LT & RT	40	2
	TOTALS	**40**	**2**

EROSION MAT ITEMS

STATION - STATION	LOCATION	628.2008 URBAN CLASS I TYPE B SY	COMMENTS
CATEGORY CODE 0010			
515+04 - 994+00	LT/RT	1,255	CULVERTS
515+04 - 994+00	LT/RT	285	CURB RAMPS
	TOTALS	**1,540**	

INLET PROTECTION ITEMS

STATION	LOCATION	628.7015 TYPE C EACH
CATEGORY CODE 0010		
909+50 - 981+65	LT/RT	44
	TOTALS	**44**

PIPE CHECK ITEMS

STATION	LOCATION	628.7555 CULVERT PIPE CHECKS EACH
CATEGORY CODE 0010		
515+04 - 994+00	LT/RT	100
	TOTAL	**100**

MOVING SIGN ITEMS

STATION	LOCATION	638.2101 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH
CATEGORY CODE 0010			
515+04 - 994+00	PROJECT	20	20
	TOTALS	**20**	**20**

MISC. SHEET 6

TRAFFIC CONTROL ITEMS

LOCATION	614.0905 CRASH CUSHOINS TEMPORARY EACH	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C DAY	643.0900 SIGNS DAYS	643.1050 SIGNS PCMS DAYS	643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH LF	643.3350 TEMPORARY MARKING CROSSWALK REMOVABLE TAPE 6-INCH LF	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	646.9000 MARKING REMOVAL LINE 4-INCH LF	661.0101 TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (B-17-984) EACH	SPV.0045.01 AUTOMATED FLAGGER ASSITANCE DEVICE DAYS	COMMENTS
CATEGORY CODE 0010														
515+04 - 994+00	--	2,775	--	--	--	450	--	--	--	--	--	--	--	BEAMGUARD
909+50 - 981+50	--	2,100	--	--	--	250	--	--	1360	--	--	--	--	CURB RAMPS
942+45 - 943+20	2	355	25	--	160	350	--	675	--	55	455	1	--	B-17-984
917+00 - 931+00	--	--	70	60	--	500	14	--	--	--	--	--	--	DETOUR
515+04 - 994+00	--	--	--	--	--	--	--	--	--	--	--	--	--	PROJECT
0010 SUBTOTAL	2	5,230	95	60	160	1,550	14	675	1,360	55	455	1	--	
CATEGORY CODE 0050														
515+04-994+00	--	--	--	--	--	--	--	--	--	--	--	--	115	PROJECT
0050 SUBTOTAL	--	--	--	--	--	--	--	--	--	--	--	--	115	
TOTALS	**2**	**5,230**	**95**	**60**	**160**	**1,550**	**14**	**675**	**1,360**	**55**	**455**	**1**	**115**	

LOCATION	614.0905 CRASH CUSHIONS TEMPORARY	BACK WIDTH	OBJECT MARKING PATTERN	CRASH TEST LEVEL	TRAFFIC DIRECTION	TRAFFIC LOCATION	CRASH CUSHION SHIELDS
944+47 16.6' LT	1	2 FT	OM-3L (WO5-58L)	NA - SLOPED CONCRETE END TREATMENT	UNIDIRECTIONAL	R	TEMPORARY CONCRETE BARRIER
941+00 9.5' RT	1	2 FT	OM-3R (WO5-58R)	NA - SLOPED CONCRETE END TREATMENT	UNIDIRECTIONAL	L	TEMPORARY CONCRETE BARRIER

MARKING LINE ITEMS

STATION - STATION	LOCATION	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.5320 MARKING RAILROAD CROSSING EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.6120 MARKING DIAGONAL EPOXY 6-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH LF
CATEGORY CODE 0010												
515+04 - 994+00	LT/RT/CL	159,000	1,950	10	2	2	300	275	2,650	100	3	215,000
	TOTALS	**159,000**	**1,950**	**10**	**2**	**2**	**300**	**275**	**2,650**	**100**	**3**	**215,000**

MISC. SHEET 7

TEMPORARY PEDESTRIAN TRAFFIC CONTROL

LOCATION	644.1440 SURFACE MATTING SF	644.1601 CURB RAMP DAY	644.1810 BARRICADE LF	COMMETNS
CATEGORY CODE 0010				
909+50 - 981+50	500	140	600	STAGE 2D
909+50 - 981+50	500	140	600	STAGE 2E
TOTALS	**1,000**	**280**	**1,200**	

CONSTRUCTION STAKING ITEMS

STATION - STATION	LOCATION	650.6000 PIPE CULVERTS LF	650.5500 CURB & GUTTER LF	650.8000 RESURFACING REFERENCE LF	650.9000 CURB RAMPS EACH
CATEGORY CODE 0010					
515+04 - 994+00	LT/RT/CL	4	2,640	47,900	56
TOTALS		**4**	**2,640**	**47,900**	**56**

SAWING ITEMS

LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	COMMENTS
CATEGORY CODE 0010			
515+04 - 994+00	--	250	SIDEWALK
909+50 - 981+50	2,565	210	CURB REPLACEMENT
909+50 - 981+50	35	15	INLET ADJUSTMENTS
TOTALS	**2,600**	**475**	

SPECIALS

STATION	LOCATION	SPV.0060.01 GRADING, SHAPING, AND FINISHING CULVERT PIPES AND APRON ENDWALLS EACH	SPV.0090.01 CONCRETE JOINT AND CRACK CLEANING AND REPAIR LF
CATEGORY CODE 0010			
515+04 - 994+00	PROJECT	8	100
TOTALS		**8**	**100**

MISC. SHEET 8

BARRIER SYSTEM ESTIMATED QUANTITIES TABLES

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 557+09 TO STA 560+15 RT	45	495	734	0.46	13.2	381	17.5	9.9	306

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 557+50 TO STA 560+75 LT	93	507	755	0.47	13.5	755	18	10.2	625

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 561+07 TO STA 563+96 LT	43	334	485	0.3	8.7	485	11.5	6.5	289

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 566+13 TO STA 575+10 RT	133	766	1386	0.87	25	1386	33	18.7	897

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 567+39 TO STA 573+68 LT	93	935	1693	1.07	30.5	1693	40.3	22.9	629

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 663+30 TO STA 665+86 RT	38	165	612	0.39	11	612	14.6	8.3	256

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 663+54 TO STA 666+11 LT	38	179	665	0.42	12	665	15.8	8.9	257

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 678+04 TO STA 680+23 RT	32	162	544	0.35	9.8	544	12.9	7.4	219

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 678+60 TO STA 680+91 LT	34	170	571	0.36	10.3	571	13.6	7.7	231

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

BARRIER SYSTEM ESTIMATED QUANTITIES TABLES

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 684+17 TO STA 687+23 LT	45	174	688	0.43	12.4	688	16.4	9.2	306

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 684+50 TO STA 687+56 RT	45	167	653	0.41	11.8	653	15.6	8.8	306

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 737+39 TO STA 739+20 RT	27	218	624	0.39	11.2	624	14.8	8.4	181

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 737+79 TO STA 739+60 LT	27	138	394	0.25	7.1	394	9.4	5.4	181

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 765+53 TO STA 766+45 RT	14	52	141	0.08	2.5	141	3.4	1.9	92

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 765+54 TO STA 766+45 LT	13	34	93	0.06	1.7	93	2.2	1.3	91

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 766+80 TO STA 767+74 LT	14	51	132	0.08	2.4	132	3.1	1.8	94

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 766+80 TO STA 767+75 RT	14	43	113	0.07	2	113	2.7	1.6	95

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 791+55 TO STA 799+86 LT	123	1271	2556	1.61	46	2556	60.8	34.5	831

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

MISC. SHEET 10

BARRIER SYSTEM ESTIMATED QUANTITIES TABLES

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 791+98 TO STA 797+54 RT	82	589	1184	0.75	21.3	1184	28.2	16	556

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 807+67 TO STA 811+48 RT	56	492	1189	0.75	21.4	1189	28.3	16.1	381

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 808+26 TO STA 812+07 LT	56	519	1256	0.79	22.6	1256	29.9	17	381

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 832+24 TO STA 835+07 RT	42	166	630	0.4	11.3	630	15	8.5	283

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 832+25 TO STA 835+06 LT	42	132	502	0.32	9	502	12	6.8	281

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 853+63 TO STA 862+15 LT	126	1161	2180	1.38	39.3	2180	51.9	29.4	852

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 855+58 TO STA 862+79 RT	107	229	431	0.27	7.8	431	10.2	5.8	721

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 874+80 TO STA 881+96 RT	106	1633	2589	1.63	46.6	2589	61.6	35	716

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 874+92 TO STA 887+54 LT	187	266	423	0.26	7.7	423	10.1	5.7	1262

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

3

BARRIER SYSTEM ESTIMATED QUANTITIES TABLES

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 883+03 TO STA 888+95 RT	88	991	1569	0.99	28.2	1569	37.3	21.2	592

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 900+90 TO STA 902+58 RT	25	168	552	0.35	10	552	13.2	7.5	168

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 901+05 TO STA 902+75 LT	25	109	358	0.22	6.4	358	8.5	4.8	170

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 941+53 TO STA 942+46 LT	14	19	44	0.03	0.8	44	1	0.6	93

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 943+17 TO STA 944+33 LT	17	103	240	0.15	4.3	240	5.7	3.3	116

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

LOCATION	EXCAVATION COMMON*	BORROW*	TOPSOIL*	FERTILIZER*	SEEDING*	EROSION MAT*	SEED WATER*	SEEDING TEMPORARY*	SLOPE STAKING*
	CY	CY	SY	CWT	LBS	SY	MGAL	LBS	LF
STA 984+69 TO STA 989+00 RT	64	221	1053	0.66	19	1053	25.1	14.2	431

* ITEMS & QUANITITES LISTED ARE FOR INFORMATIONAL PURPOSES ONLY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
8620-00-25
ELK MOUND - BLOOMER
USH 12 TO CTH M
STH 40
DUNN COUNTY

CONVENTIONAL SYMBOLS

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

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (3/4-INCH UNLESS NOTED) IP
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	○
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	✕	⌀

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25) UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

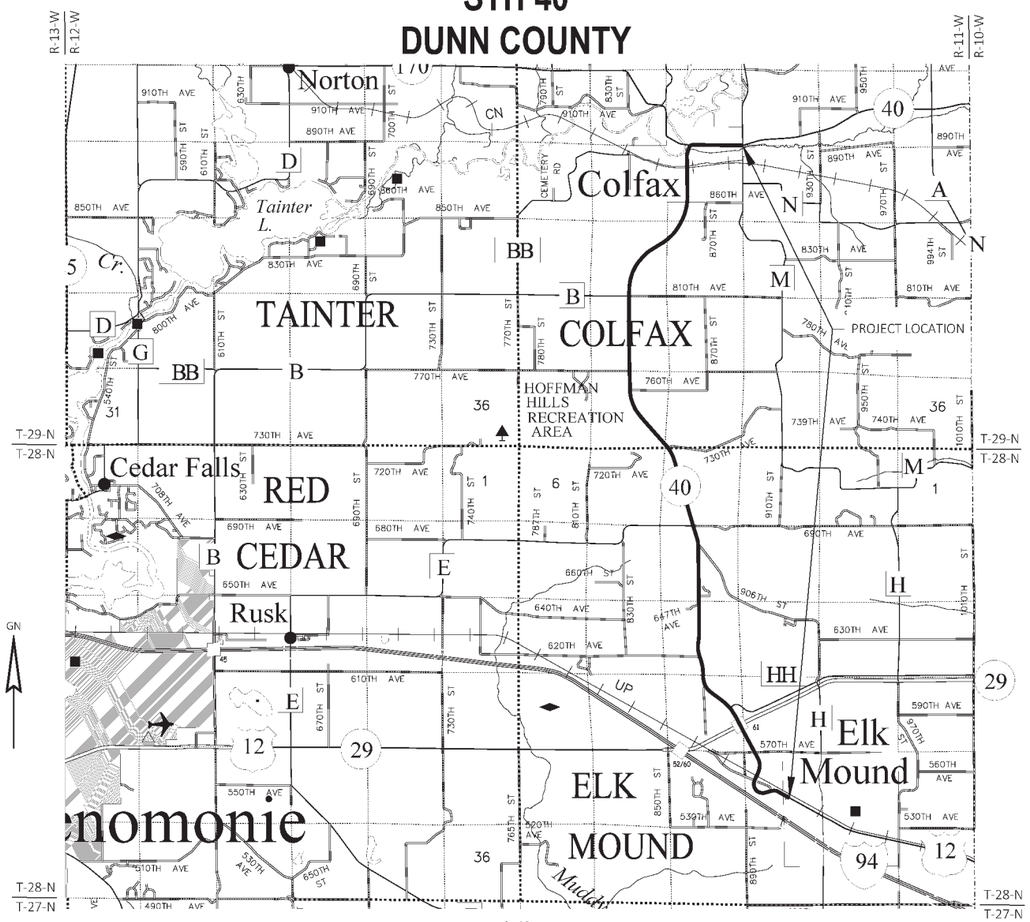
ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CERTIFIED SURVEY MAP	CSM	RIGHT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

CURVE DATA ABBREVIATIONS

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

CONVENTIONAL UTILITY SYMBOLS

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



THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 8620-00-25

NOTES:

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

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

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

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

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

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

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE TPP DETAIL PAGES.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE TPP DETAIL PAGES.

PROJECT NUMBER 8620-00-25 - 4. 01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\RW\DWG\040100-RP.DWG
LAYOUT NAME: TPP Title 34x22
PLOT DATE : 7/1/2024 1:16 PM PLOT BY : JAY PANETTI PLOT NAME : _____

676713

DUNN COUNTY, WI
REGISTER OF DEEDS
HEATHER M. KUHN

RECORDED ON
05/23/2025 10:43 AM

REC FEE: 25.00
PAGES: 1
The above recording information verifies that this document has been electronically recorded and returned to the submitter.

TRANSPORTATION PROJECT PLAT NO: 8620-00-25 - 4.02 AMENDMENT NO. 1

AMENDS PARCELS 3 AND 4, AND REMOVES PARCEL 6 OF TRANSPORTATION PROJECT PLAT NO. 8620-00-25 - 4.02 RECORDED AS DOCUMENT #671957. THAT PART OF LOT 12 OF BLOCK 12, AND PART OF LOT 7 OF BLOCK 11 OF J.D. SIMON'S 3RD ADDITION TO THE VILLAGE OF COLFAX, BEING PART OF THE SE1/4-NW1/4 OF SECTION 16, T29N, R11W, VILLAGE OF COLFAX, DUNN COUNTY, WISCONSIN

RELOCATION ORDER STH 40 ELK MOUND - BLOOMER USH 12 TO CTH M DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

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

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING RIGHT-OF-WAY FOR STH 40 ESTABLISHED FROM J.D. SIMON'S 3RD ADDITION TO THE VILLAGE OF COLFAX.

EXISTING RIGHT-OF-WAY FOR 3RD AVENUE ESTABLISHED FROM J.D. SIMON'S 3RD ADDITION TO THE VILLAGE OF COLFAX.

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

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DUNN COUNTY AS SHEET 2 OF 2 OF DOCUMENT 671925.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST(S) REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE ACRES OR S.F.
3	SANDRA B. LEWON AND MATHIAS G. LEWON	TLE	0	0	0	13
4	CHRISTIAN EVERTSEN AND JESSICA EVERTSEN	TLE	0	0	0	13

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

ALL AREAS SHOWN IN SQUARE FEET UNLESS OTHERWISE NOTED.

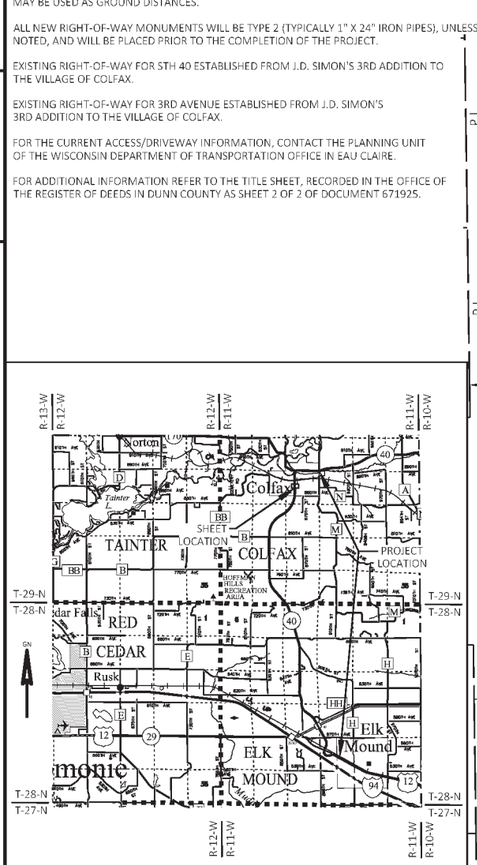
ALL TLE'S ARE FOR SLOPE GRADING PURPOSES, UNLESS OTHERWISE NOTED.

GN

SCALE, FEET
0 20 40

COURSE TABLE		
COURSE	BEARING	DISTANCE
201 - 211	S89° 17' 35"W	5.00'
211 - 202	S00° 50' 30"E	5.00'
203 - 204	N00° 50' 30"W	4.18'
204 - 212	N00° 50' 30"W	60.00'
212 - 213	N00° 50' 30"W	5.82'
209 - 214	S00° 50' 30"E	5.00'
214 - 210	N89° 17' 35"E	5.00'
210 - 201	S00° 50' 30"E	60.00'

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8620-00-25 - 4.02
AMENDMENT NO: 1



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

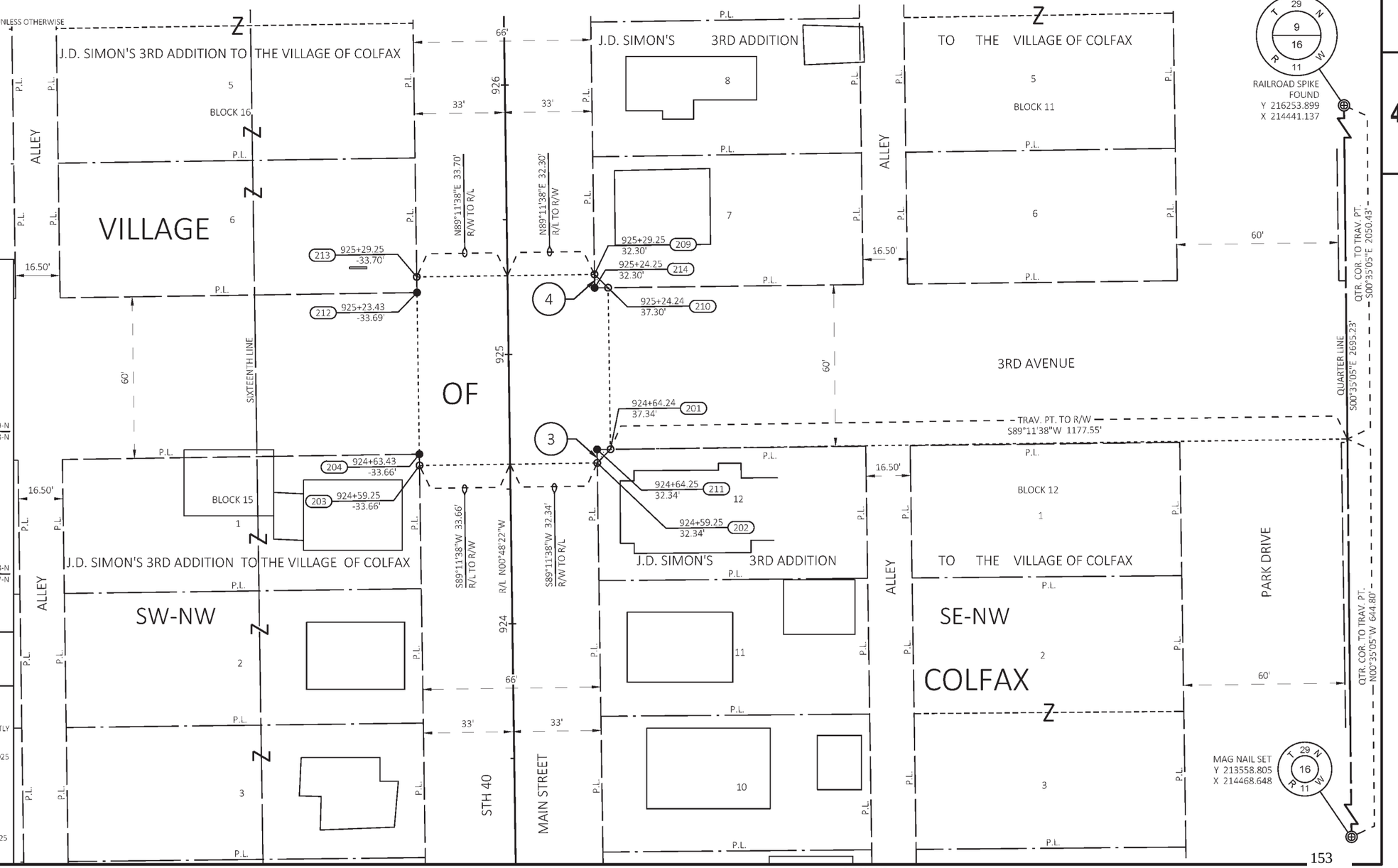
I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS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

WISCONSIN JAY W. PANETTI S-2747 WAUPUN, WI LAND SURVEYOR

SIGNATURE: _____ DATE: 5/20/2025
PRINT NAME: JAY W. PANETTI
REGISTRATION NUMBER: S-2747

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: _____ DATE: 5/22/2025
PRINT NAME: AARON GUSTAFSON



FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\RW\DWG\040102-RP.DWG
APPRAISAL PLAT DATE : 5/20/2025
PLOT DATE : 5/20/2025 1:09 PM
PLOT BY : JAY PANETTI
PLOT NAME :

8620-00-25 - 4.02A1

671957

DUNN COUNTY, WI
REGISTER OF DEEDS
HEATHER M. KUHN

RECORDED ON
07/03/2024 03:41 PM

REC FEE: 25.00
PAGES: 1
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TRANSPORTATION PROJECT PLAT NO: 8620-00-25 - 4.02

THAT PART OF LOT 12 OF BLOCK 12, PART OF LOT 7 OF BLOCK 11, AND PART OF LOT 6 OF BLOCK 16 OF J.D. SIMON'S 3RD ADDITION TO THE VILLAGE OF COLFAX, BEING PART OF THE SE1/4-NW1/4 OF SECTION 16, T29N, R11W, VILLAGE OF COLFAX, DUNN COUNTY, WISCONSIN

RELOCATION ORDER STH 40 ELK MOUND - BLOOMER USH 12 TO CTH M DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

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

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING RIGHT-OF-WAY FOR STH 40 ESTABLISHED FROM J.D. SIMON'S 3RD ADDITION TO THE VILLAGE OF COLFAX.

EXISTING RIGHT-OF-WAY FOR 3RD AVENUE ESTABLISHED FROM J.D. SIMON'S 3RD ADDITION TO THE VILLAGE OF COLFAX.

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

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DUNN COUNTY AS SHEET 2 OF 2 OF DOCUMENT 671925.

GN

SCALE, FEET
0 20 40

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST(S) REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE ACRES OR S.F.
3	LEROY NELSON	FEE	13	0	13	0
4	GUY FERRY	FEE	13	0	13	0
6	MARK A. NELSON AND LISA JOHNSON WOODS RUN FOREST PRODUCTS, INC.	FEE	221	0	221	0

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

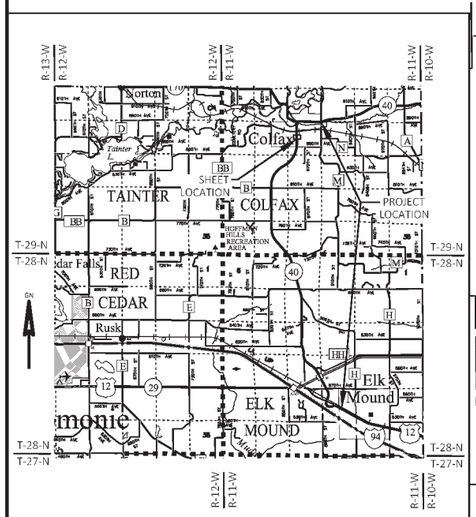
ALL AREAS SHOWN IN SQUARE FEET UNLESS OTHERWISE NOTED.

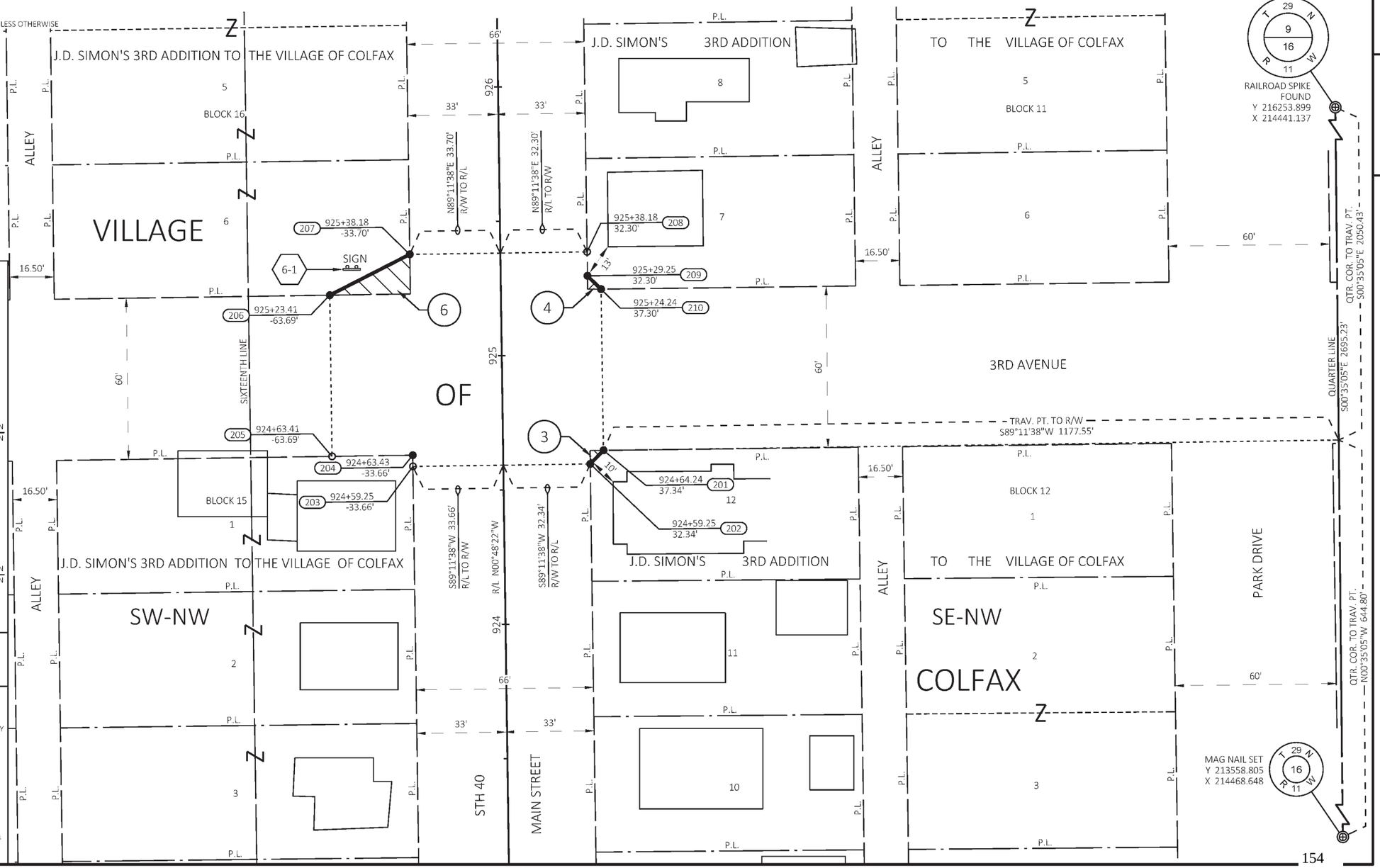
SCHEDULE OF SIGN STRUCTURES

SIGN NUMBER	SIGN OWNER(S)	OASIS NUMBER
6-1	WOODS RUN FOREST PRODUCTS, INC. MARK A. NELSON AND LISA JOHNSON	018143

COURSE TABLE		
COURSE	BEARING	DISTANCE
201 - 202	S44° 13' 32"W	7.06'
203 - 204	N00° 50' 30"W	4.18'
204 - 205	S89° 09' 24"W	30.04'
205 - 206	N00° 48' 22"W	60.00'
206 - 207	N62° 58' 44"E	33.43'
208 - 209	S00° 50' 30"E	8.93'
209 - 210	S45° 46' 28"E	7.08'
210 - 201	S00° 50' 30"E	60.00'

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8620-00-25 - 4.02
AMENDMENT NO: __





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

SIGNATURE: _____ DATE: 7/3/2024
PRINT NAME: JAY W. PANETTI
REGISTRATION NUMBER: S-2747

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: _____ DATE: 7/3/2024
PRINT NAME: AARON GUSTAFSON

WISCONSIN JAY W. PANETTI S-2747 WAUPUN, WI LAND SURVEYOR

GREMMER & ASSOCIATES, INC. CONSULTING ENGINEERS Stevens Point • Fond du Lac

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\RW\DWG\040102-RP.DWG
APPRAISAL PLAT DATE : 7/3/2024
PLOT DATE : 7/3/2024 9:17 AM
PLOT BY : JAY PANETTI
PLOT NAME :

8620-00-25 - 4.02

671958
DUNN COUNTY, WI
REGISTER OF DEEDS
HEATHER M. KUHN
RECORDED ON
07/03/2024 0 PM
REC FEE: 2
PAGES: 155
The above recording verifies that this do ation has been electronically recorded and returned to the submitter.

TRANSPORTATION PROJECT PLAT NO: 8620-00-25 - 4.03

THAT PART OF LOT 7 OF BLOCK 4 AND PART OF LOT 6 OF BLOCK 5, JOHN D. SIMON'S ADDITION TO THE VILLAGE OF COLFAX, BEING PART OF THE SE1/4-NW1/4. ALSO, THAT PART OF LOT 12 OF BLOCK 4, JOHN D. SIMON'S ADDITION TO THE VILLAGE OF COLFAX, AND PART OF LOT 4 OF BLOCK 10, J.D. SIMON'S SECOND ADDITION TO THE VILLAGE OF COLFAX, BEING PART OF THE NE1/4-NW1/4, ALL IN SECTION 16, T29N, R11W, VILLAGE OF COLFAX, DUNN COUNTY, WISCONSIN

RELOCATION ORDER STH 40 ELK MOUND - BLOOMER USH 12 TO CTH M DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FOUND MONUMENT TABLE			
POINT NUMBER	Y	X	DESCRIPTION
10867	215214.828	213397.718	3/4" IRON REBAR
10868	214949.830	213421.662	3/4" IRON REBAR
10871	215276.245	213049.325	1-1/4" IRON REBAR
10872	215210.707	213073.598	3/4" IRON REBAR
10873	215176.250	213071.986	2" IRON PIPE

COURSE TABLE		
COURSE	BEARING	DISTANCE
301 - 302	SEE CURVE TABLE	
303 - 304	SEE CURVE TABLE	
304 - 305	N56° 15' 16"E	17.86'
305 - 306	N00° 45' 30"W	400.84'
306 - 307	N00° 45' 30"W	66.00'
307 - 308	N00° 45' 30"W	8.69'
309 - 310	S45° 24' 09"E	11.39'
310 - 311	S04° 26' 19"W	66.27'
311 - 312	S04° 57' 07"W	20.10'
312 - 313	S00° 45' 30"E	384.81'
313 - 301	S84° 34' 17"E	11.75'

CURVE TABLE				
CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
301 - 302	5579.65'	11.71'	S85° 39' 19"W	11.71'
303 - 304	5579.65'	15.00'	S86° 28' 17"W	15.00'

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST(S) REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE ACRES OR S.F.
7	CEDAR COUNTRY COOPERATIVE	FEE, TLE	12	0	12	76
8	ANNE E. SCHIEBER	FEE	67	0	67	0
9	PJK SYSTEMS, LLC	FEE, TLE	20	0	20	20
11	CLEAR CONNECTION MANAGEMENT LLC	FEE	32	0	32	0

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

ALL AREAS SHOWN IN SQUARE FEET UNLESS OTHERWISE NOTED. THE PURPOSE FOR ALL TLE'S IS GRADING AND SIDEWALK, UNLESS OTHERWISE NOTED.

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

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

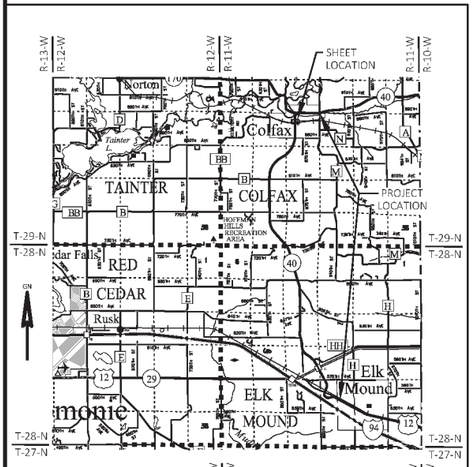
EXISTING RIGHT-OF-WAY FOR STH 40 ESTABLISHED FROM JOHN D. SIMON'S ADDITION TO THE VILLAGE OF COLFAX, AND JOHN D. SIMON'S SECOND ADDITION TO THE VILLAGE OF COLFAX.

EXISTING RIGHT-OF-WAY FOR RAILROAD AVENUE ESTABLISHED FROM JOHN D. SIMON'S ADDITION TO THE VILLAGE OF COLFAX.

EXISTING RIGHT-OF-WAY FOR RIVER STREET ESTABLISHED FROM JOHN D. SIMON'S ADDITION TO THE VILLAGE OF COLFAX AND JOHN D. SIMON'S SECOND ADDITION TO THE VILLAGE OF COLFAX.

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

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DUNN COUNTY AS SHEET 2 OF 2 OF DOCUMENT 671925.



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

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

WISCONSIN JAY W. PANETTI S-2747 WAUPUN, WI LAND SURVEYOR

SIGNATURE: _____ DATE: 7/3/2024
PRINT NAME: JAY W. PANETTI
REGISTRATION NUMBER: S-2747

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: Aaron Gustafson DATE: 7/3/2024
PRINT NAME: AARON GUSTAFSON

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 8620-00-25 - 4.03
AMENDMENT NO: __

JOHN D. SIMON'S SECOND ADDITION TO THE VILLAGE OF COLFAX
BLOCK 10
PLAT OF SURVEY S-693
JOHN D. SIMON'S ADDITION TO THE VILLAGE OF COLFAX
BLOCK 2
BLOCK 5
JOHN D. SIMON'S ADDITION TO THE VILLAGE OF COLFAX
BLOCK 4
JOHN D. SIMON'S ADDITION TO THE VILLAGE OF COLFAX
RIVER STREET
SIXTEENTH LINE
ALLEY
NW-NW
NE-NW
SE-NW
PLAT OF SURVEY M-456
VILLAGE OF COLFAX
STH 40
MAIN STREET
QUARTER LINE
CANOPY
SEE DETAIL 1
DETAIL 1
(NOT TO SCALE)
RAILROAD AVENUE
CTH BB
RAILROAD AVENUE
TRAV. PT. TO R/W S89°11'38"W 1173.61'
N89°11'38"E 33.60' R/W TO R/L
N89°11'38"E 32.40' R/L TO R/W
S86°03'18"W 34.06' R/L TO R/W
S86°03'18"W 32.04' R/W TO R/L
R/L N00°48'22"W
QTR. COR. TO TRAV. PT. S00°35'05"E 1430.13'
QTR. COR. TO TRAV. PT. N00°35'05"W 1265.10'
QUARTER LINE S00°35'05"E 2695.23'
RAILROAD SPIKE FOUND Y 216253.899 X 214441.137
MAG NAIL SET Y 213558.805 X 214468.648
IP 10871
IP 10872
IP 10873
IP 10867
IP 10868
935+64.71 32.40' (309)
935+64.71 -33.60' (308)
935+56.02 -33.61' (307)
935+56.60 40.39' (310)
934+90.61 34.34' (311)
934+90.02 -33.67' (306)
934+70.62 34.34' TLE
934+70.61 32.32' (312)
930+98.81 32.01' TLE
930+85.80 32.00' (313)
930+84.53 43.68' (301)
930+83.81 32.00' (302)
930+89.19 -34.00' (305)
930+80.19 -34.01' (303)
930+79.47 -48.99' (304)
936
935
934
933
932
931
66'
33'
20'
16.50'
0.5'
0.2'
71'
99'
T-29-N R-11-W
T-28-N R-11-W
T-27-N R-11-W
T-29-N R-12-W
T-28-N R-12-W
T-27-N R-12-W
T-29-N R-10-W
T-28-N R-10-W
GN
SCALE, FEET
0 20 40

PLOT SCALE :
PLOT NAME :
PLOT BY : Jay Panetti
PLOT DATE : 7/3/2024 9:20 AM
8620-00-25 - 4.03
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WSDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL\3D\Y6000002_8620005\RW\DWG\040103-RP.DWG
APPRAISAL PLAT DATE : 7/3/2024

676712

DUNN COUNTY, WI
REGISTER OF DEEDS
HEATHER M. KUHN

RECORDED ON
05/23/2025 09:52 AM

REC FEE: 25.00
PAGES: 1
The above recording information verifies that this document has been electronically recorded and returned to the submitter.

TRANSPORTATION PROJECT PLAT NO: 8620-00-25 - 4.04 AMENDMENT NO. 1

AMENDS PARCEL 12 OF TRANSPORTATION PROJECT PLAT NO. 8620-00-25 - 4.04 RECORDED AS DOCUMENT #671959. THAT PART OF LOTS 3 AND 4 OF BLOCK 2, JOHN D. SIMON'S ADDITION TO THE VILLAGE OF COLFAX, AND PART OF LOTS 6 AND 7 OF BLOCK 10, J.D. SIMON'S SECOND ADDITION TO THE VILLAGE OF COLFAX, BEING PART OF THE NE1/4-NW1/4, ALL IN SECTION 16, T29N, R11W, VILLAGE OF COLFAX, DUNN COUNTY, WISCONSIN

RELOCATION ORDER STH 40 ELK MOUND - BLOOMER USH 12 TO CTH M DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

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

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING RIGHT-OF-WAY FOR STH 40 ESTABLISHED FROM JOHN D. SIMON'S ADDITION TO THE VILLAGE OF COLFAX AND JOHN D. SIMON'S SECOND ADDITION TO THE VILLAGE OF COLFAX.

EXISTING RIGHT-OF-WAY FOR 1ST AVENUE ESTABLISHED FROM JOHN D. SIMON'S ADDITION TO THE VILLAGE OF COLFAX, JOHN D. SIMON'S SECOND ADDITION TO THE VILLAGE OF COLFAX, AND ASSESSMENT PLAT NO. 1 FOR THE VILLAGE OF COLFAX.

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

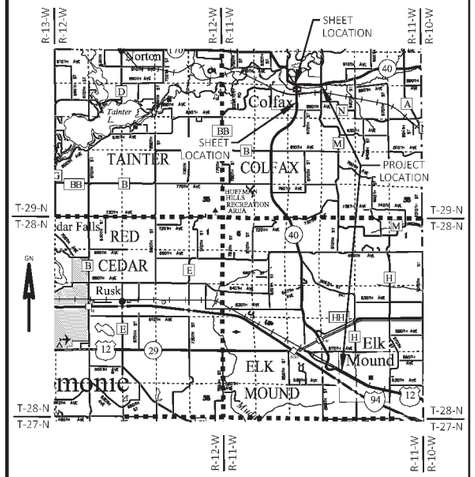
FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DUNN COUNTY AS SHEET 2 OF 2 OF DOCUMENT 671925.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST(S) REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE ACRES OR S.F.
12	SUSAN L. LANOU	FEE	80	0	80	0
13	VILLAGE OF COLFAX	FEE	131	0	131	0
14	J & S SALES OF CHIPPEWA FALLS LLC, D/B/A COLFAX EXPRESS MART	FEE	112	0	112	0

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

ALL AREAS SHOWN IN SQUARE FEET UNLESS OTHERWISE NOTED.



GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

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

SIGNATURE: _____ DATE: 5/20/2025
PRINT NAME: JAY W. PANETTI
REGISTRATION NUMBER: S-2747

WISCONSIN JAY W. PANETTI S-2747 WAUPUN, WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: _____ DATE: 5/22/2025
PRINT NAME: AARON GUSTAFSON

CURVE DATA - R/L CURVE 1
PI STA = 938+79.82
Y = 215601.919
X = 213227.373
DELTA = 20°12'06" RT
D = 9°32'57"
T = 106.88'
L = 211.55'
R = 600.00'
PC STA = 937+72.93
Y = 215495.045
X = 213228.877
PT STA = 939+84.48
Y = 215702.738
X = 213262.868
DB = N00°48'22"W
DA = N19°23'43"E

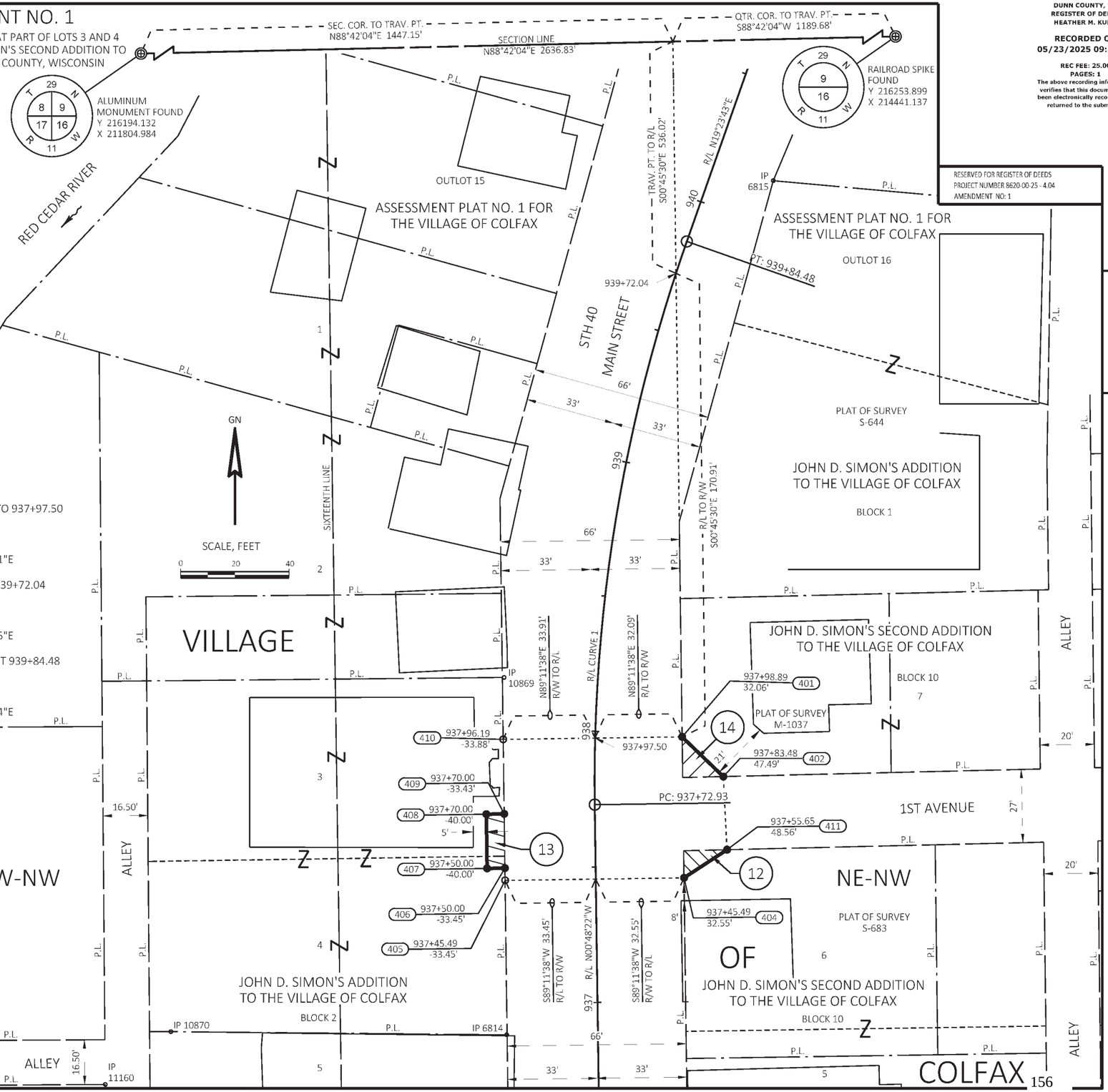
PC 937+72.93 TO 937+97.50
R = 600.00'
L = 24.57'
LCH = 24.57'
LCB = N00°22'01"E

937+97.50 TO 939+72.04
R = 600.00'
L = 174.54'
LCH = 173.92'
LCB = N09°52'25"E

939+72.04 TO PT 939+84.48
R = 600.00'
L = 12.44'
LCH = 12.44'
LCB = N18°48'04"E

COURSE TABLE		
COURSE	BEARING	DISTANCE
401 - 402	S46° 03' 44"E	21.10'
402 - 411	S02° 52' 48"E	27.01'
411 - 404	S56° 47' 59"W	18.96'
405 - 406	N00° 45' 30"W	4.51'
406 - 407	S89° 11' 38"W	6.55'
407 - 408	N00° 48' 22"W	20.00'
408 - 409	N89° 11' 38"E	6.57'
409 - 410	N00° 45' 30"W	27.49'

FOUND MONUMENT TABLE			
POINT NUMBER	Y	X	DESCRIPTION
6814	215410.203	213196.408	3/4" IRON REBAR
6815	215725.144	213294.729	1-1/4" IRON REBAR
10869	215541.974	213195.467	1-1/4" IRON REBAR
10870	215411.358	213072.544	1" IRON PIPE
11160	215391.887	213048.365	1-1/4" IRON REBAR



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PLOT DATE : 5/20/2025 1:12 PM
PLOT BY : JAY PANETTI
PLOT NAME :
APPRAISAL PLAT DATE : 5/20/2025

BEGIN PROJECT 7600-00-72
STA 432+72
MATCH EXISTING
REMOVING ASPHALTIC SURFACE BUTT JOINTS REQ'D

CL CURVE DATA
CURVE 1

PI	439+30.872
N	171348.054
E	219368.523
DELTA	44°30'54"
D	08°48'53"
T	266.022'
L	505.007'
R	650.000'
LC	492.401'
LCB	N83°16'30"W

MATCH LINE STA 429+00

MATCH LINE STA 443+97.60

432+90
11' PE
GRAVEL

USH 12

N61°01'02"W

EXISTING R/W

DRAIN OUTLET

912.82
EX INV

913.52
EX INV

CULVERT NO. 17012074194
CULVERT TO REMAINING

REMOVING ASPHALTIC
SURFACE BUTT JOINTS REQ'D

555TH AVE

+14.7
15' RT

+15.3
18' RT

PT: 441+69.86

PC: 436+64.85

REBMEN RENTAL PROPERTY & INVESTMENTS, LLC
1827 BRACKETT AVE

426

FO

DRAIN OUTLET

900.84
EX INV

CULVERT NO. 17012021887
CULVERT TO REMAIN

902.34
EX INV

445+27
27' PE
GRAVEL

S74°28'03"W

PC: 446+25.56

CL CURVE DATA
CURVE 2

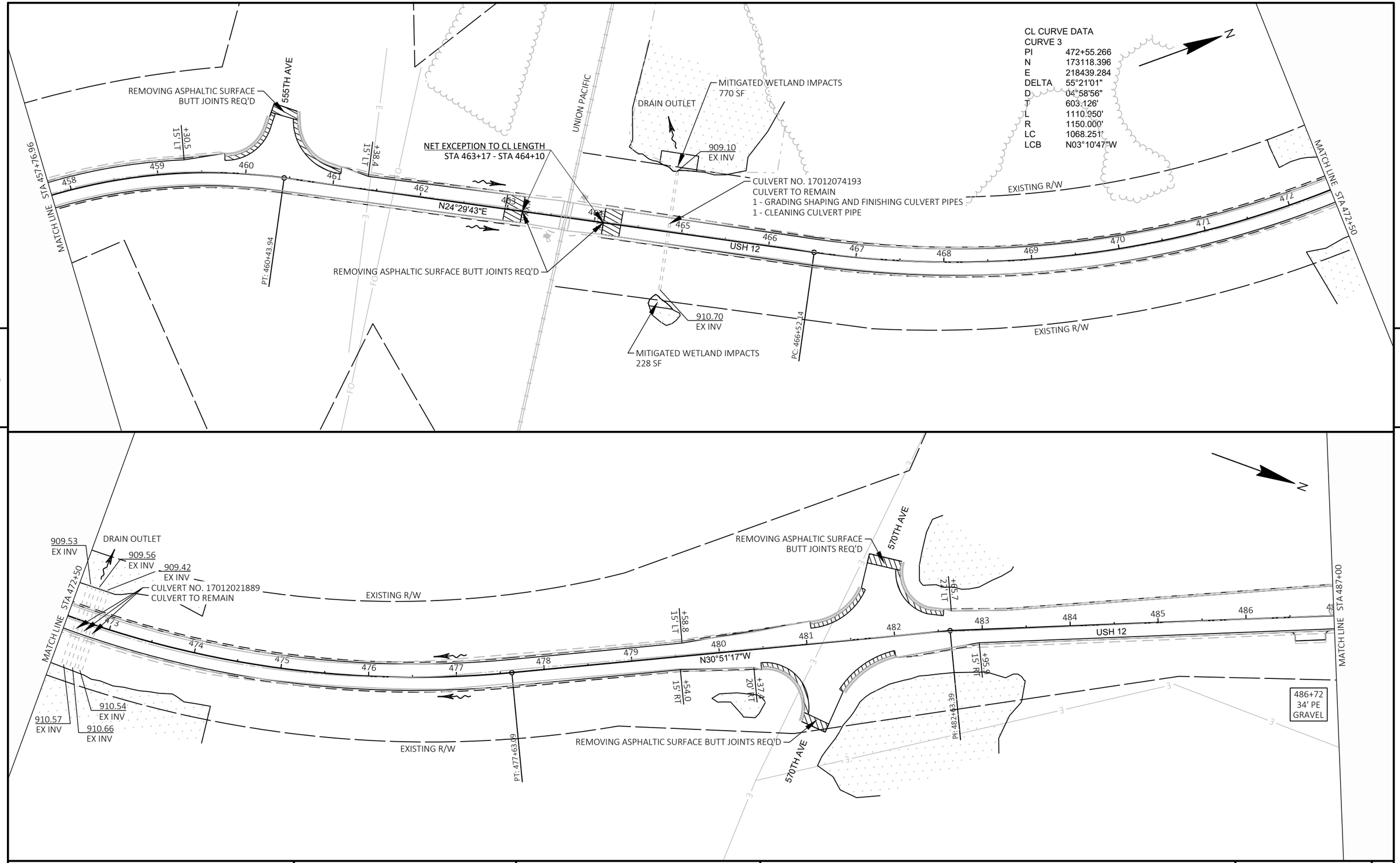
PI	459+66.725
N	170795.647
E	217380.973
DELTA	130°01'40"
D	09°10'02"
T	1341.165'
L	1418.383'
R	625.000'
LC	1133.013'
LCB	N40°31'07"W

MATCH LINE STA 443+97.60

MATCH LINE STA 457+76.96

PROJECT NO: 7600-00-72	HWY: USH 12	COUNTY: DUNN	PLAN: USH 12	SHEET 157	E

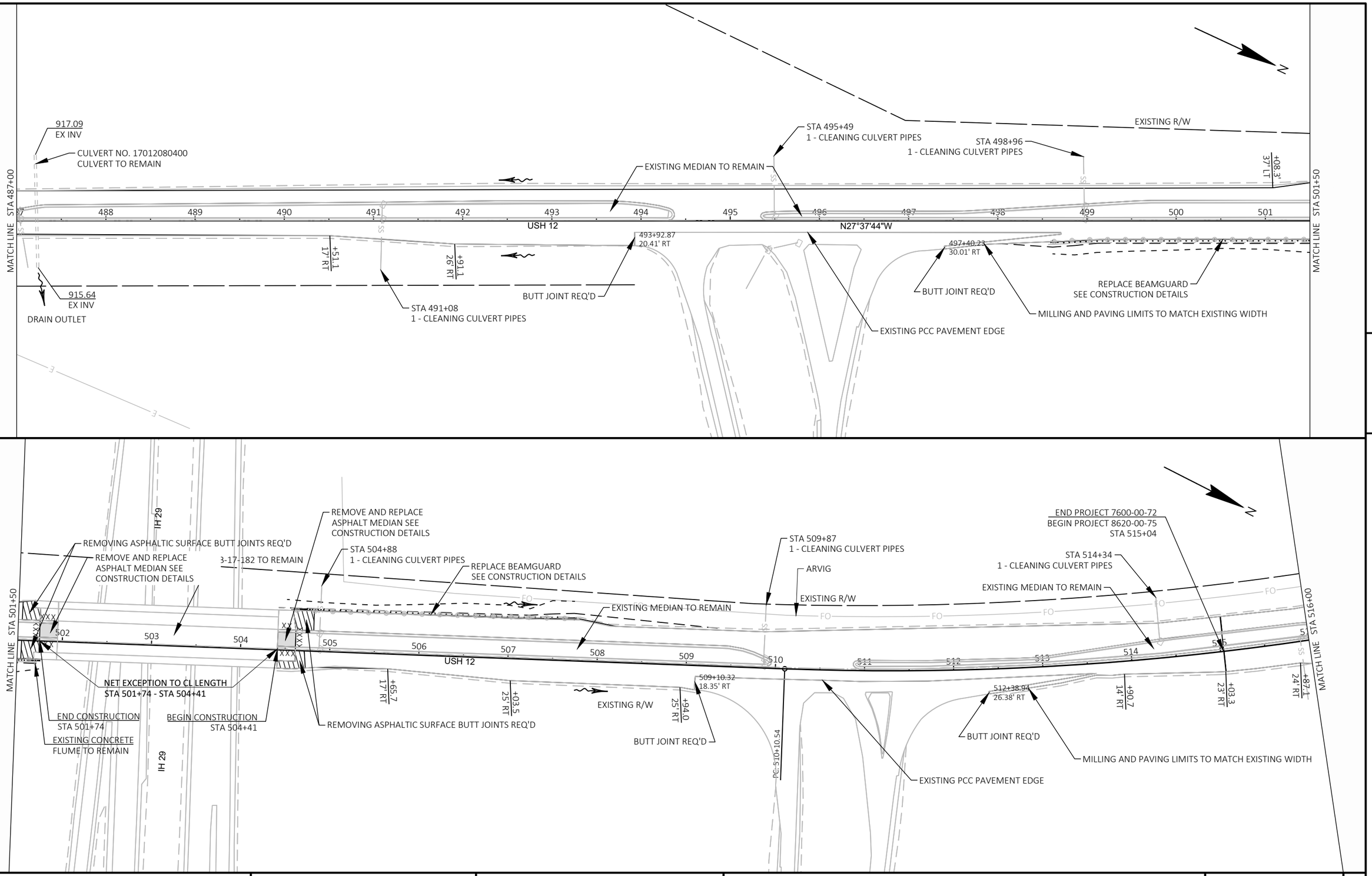
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 02
PLOT DATE : 7/31/2025 8:56 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 7600-00-72	HWY: USH 12	COUNTY: DUNN	PLAN: USH 12	SHEET 158	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 03
PLOT DATE : 7/31/2025 8:57 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 7600-00-72	HWY: USH 12	COUNTY: DUNN	PLAN: USH 12	SHEET 159	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 04
PLOT DATE : 7/31/2025 8:58 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

CL CURVE DATA
CURVE 4

PI	517+46.736
N	177151.805
E	216258.003
DELTA	25°54'44"
D	01°47'26"
T	736.196'
L	1447.210'
R	3200.000'
LC	1434.908'
LCB	N40°35'05"W

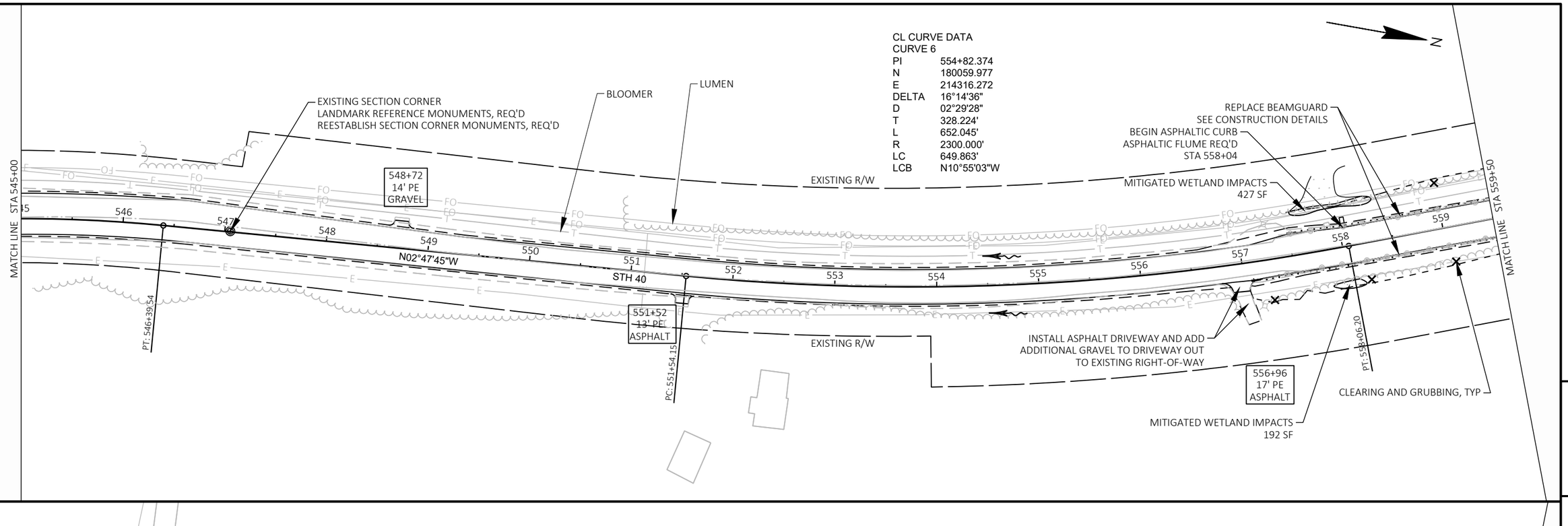
EXISTING MEDIAN TO REMAIN
MATCH LINE STA 516+00
EXISTING MEDIAN TO REMAIN
ARVIG
EXISTING R/W
DRAIN OUTLET
917.03 EX INV
917.25 EX INV
917.41 EX INV
MATCH LINE STA 530+50
N53°32'27"W
STH 40
CULVERT NOS. 17040024898, 17040083723, 17040083722
CULVERT TO REMAIN
+30.1 13' RT
REMOVING ASPHALTIC SURFACE BUTT JOINTS REQ'D
870TH ST
EXISTING R/W
STA 523+25
1 - CLEANING CULVERT PIPES
PT: 524+57.75
917.46 EX INV
917.22 EX INV
917.49 EX INV

DRAIN OUTLET
MITIGATED WETLAND IMPACTS 601 SF
919.42 EX INV
CULVERT NO. 17040024893
CULVERT TO REMAIN
2 STA - CLEARING AND GRUBBING
1 - CLEANING CULVERT PIPE
EXISTING MEDIAN TO REMAIN
EXISTING R/W
ARVIG
870TH ST
REMOVING ASPHALTIC SURFACE BUTT JOINTS REQ'D
BLOOMER
LUMEN
+23.5 29' LT
+36.6 37' LT
+98.6 38' LT
+36.5 25' LT
STH 40
MITIGATED WETLAND IMPACTS 761 SF
922.38 EX INV
PC: 535+35.32
MATCH LINE STA 530+50
MATCH LINE STA 545+00

CL CURVE DATA
CURVE 5

PI	540+42.978
N	178531.304
E	214390.928
DELTA	50°44'42"
D	03°57'05"
T	687.658'
L	1284.218'
R	1450.000'
LC	1242.654'
LCB	N28°10'06"W

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 160	E



PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 161	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 06
PLOT DATE : 7/31/2025 8:59 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

CL CURVE DATA
CURVE 8

PI	575+94.974
N	182122.706
E	214082.978
DELTA	07°58'09"
D	02°51'53"
T	139.314'
L	278.178'
R	2000.000'
LC	277.954'
LCB	N03°20'06"E

N6391

DENNIS C HOLT
N6391 STATE RD 40

N

LUMEN

BLOOMER

586+68
16' PE
ASPHALT

EXISTING R/W

MATCH LINE STA 574+00

574 575 576 577 578 579 580 581 582 583 584 585 586 587 588

STH 40

MATCH LINE STA 588+50

EXISTING R/W

END ASPHALTIC CURB
STA 574+57

PC: 574+55.66

PT: 577+33.84

CLEARING AND GRUBBING, TYP

5

5

JOSHUA A & KATHLEEN L SCHULTZ
E8670 647TH AVE

N6425

E8670

JASON & NICOLE GORHAM
N6425 STATE ROAD 40

647TH AVE

Xcel

N

BLOOMER

DRAIN OUTLET

1002.00
EX INV

591+06
18' PE
ASPHALT

LUMEN

EXISTING R/W

REMOVING ASPHALTIC SURFACE BUTT JOINTS REQ'D

599+78
13' PE
ASPHALT

CULVERT TO REMAIN

MATCH LINE STA 588+50

589 590 591 592 593 594 595 596 597 598 599 600 601 602 603

STH 40

MATCH LINE STA 603+00

DEC

1003.52
EX INV

EXISTING R/W

648TH AVE

REMOVING ASPHALTIC SURFACE BUTT JOINTS REQ'D

JARED A YOUNKER
E8721 648TH AVE

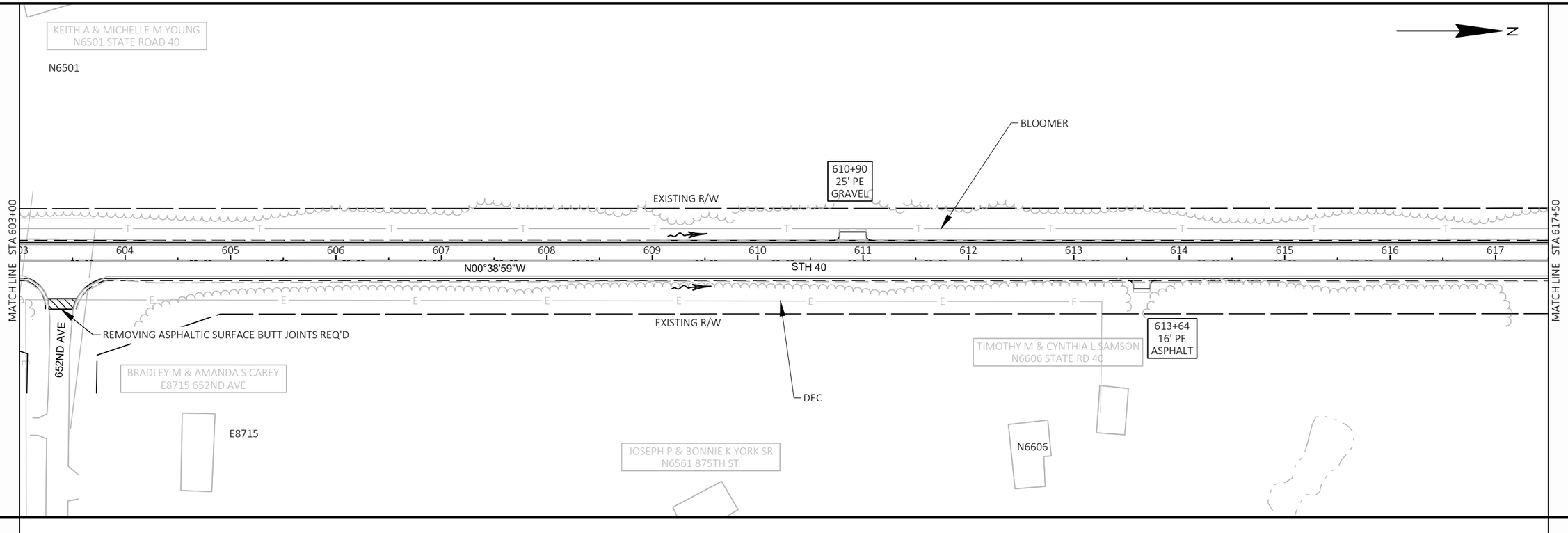
E8712

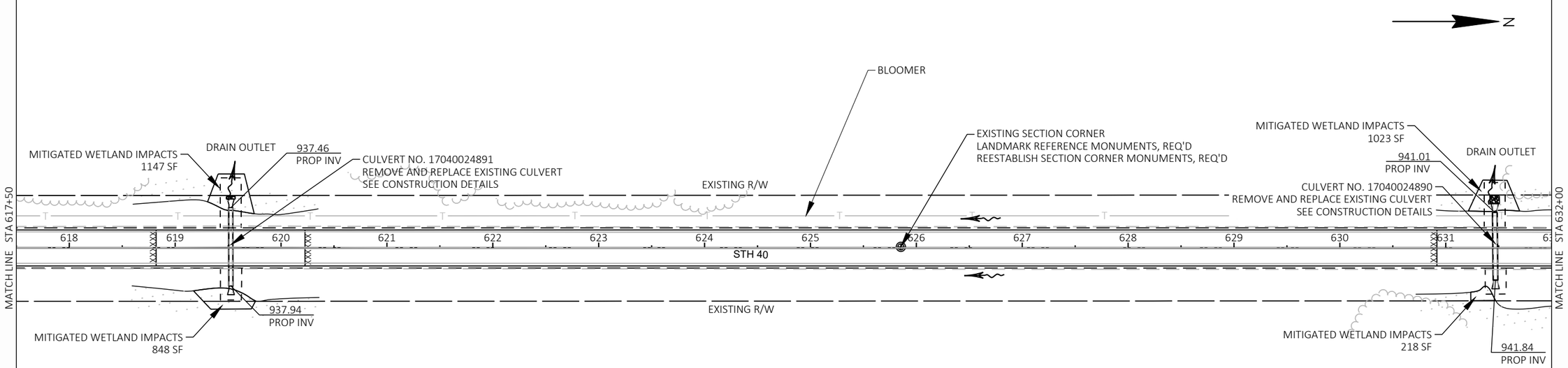
PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 162	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 07

PLOT DATE : 7/31/2025 9:00 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 163	E

CL CURVE DATA
CURVE 9

PI	641+07.790
N	188635.554
E	214009.129
DELTA	18°24'24"
D	02°51'53"
T	324.050'
L	642.515'
R	2000.000'
LC	639.756'
LCB	N09°51'11"W

N6818

LINDSAY HABLE
N6371 1010TH ST

LUMEN

BLOOMER

EXISTING R/W

MATCH LINE STA 632+00

MATCH LINE STA 646+50

STH 40

N19°03'23"W

+50.9 17' LT

+31.1 29' LT

+24.1 27' LT

+31.2 17' LT

+15.4 17' RT

+50.0 24' RT

+38.1 24' RT

+63.0 17' RT

633 634 635 636 637 638 639 640 641 642 643 644 645 646

DEC

641+61
23' PE
GRAVEL

PT: 641+26.26

SAMANTHA & PAUL NYREN
N6781 906TH ST

PC: 637+83.74

REMOVING ASPHALTIC SURFACE BUTT JOINTS REQ'D

906TH ST

SUSAN L DRESSEL
N6796 906TH ST

N6781

N6796

N6858

BRENT J & BRIANA M CHRISTIANSON
N6858 865TH ST

JONATHAN M OMALLEY
KRISTINA L CHANCE
N6880 865TH ST

N6880

LUMEN

BLOOMER

690TH AVE

REMOVING ASPHALTIC SURFACE BUTT JOINTS REQ'D

EXISTING R/W

+38.4 17' LT

+50.0 22' LT

+42.7 21' LT

+17.1 17' LT

647 648 649 650 651 652 653 654 655 656 657 658 659 660

MATCH LINE STA 646+50

MATCH LINE STA 661+00

STH 40

+22.4 17' RT

+04.5 24' RT

+86.0 17' RT

EXISTING R/W

PC: 647+56.04

PT: 648+65.19

REMOVING ASPHALTIC SURFACE BUTT JOINTS REQ'D

DEC

CL CURVE DATA
CURVE 10

PI	648+10.630
N	189305.156
E	213777.829
DELTA	03°07'37"
D	02°51'53"
T	54.590'
L	109.153'
R	2000.000'
LC	109.140'
LCB	N17°29'34"W

CTH E / 690TH AVE

DUSTIN A & NICOLE J TURNER
E8696 690TH AVE

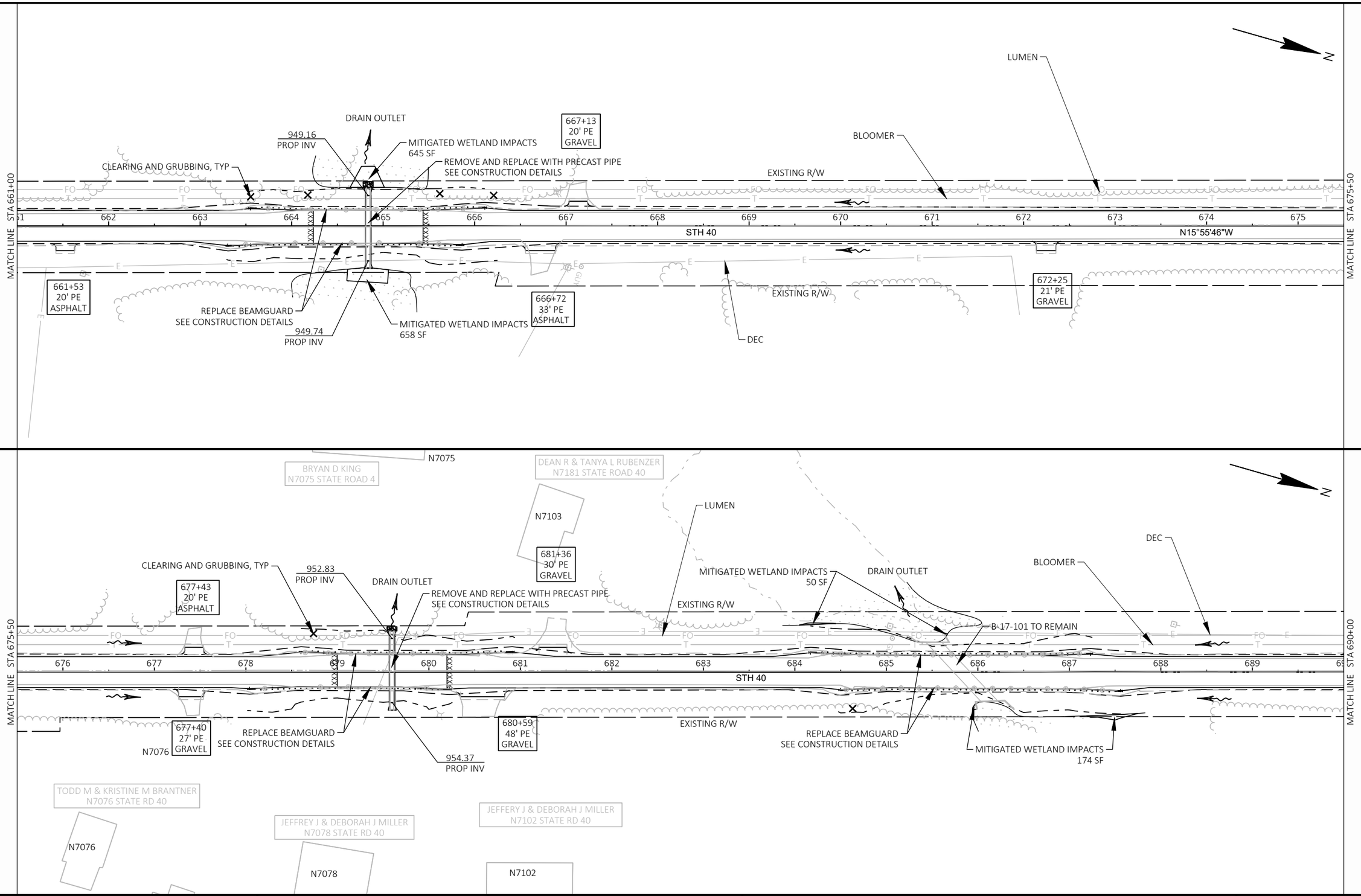
E8696

PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 164	E

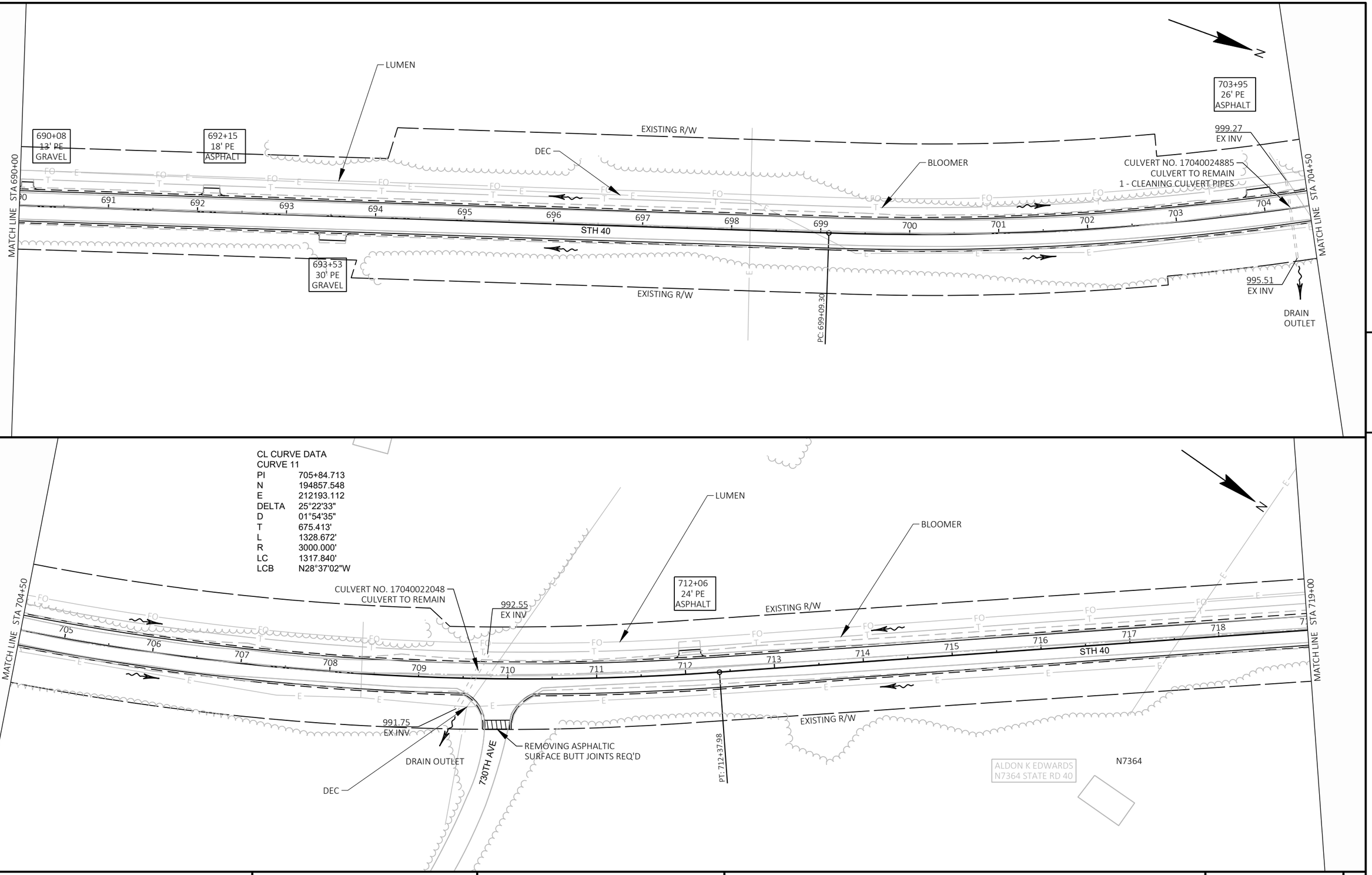
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 09

PLOT DATE : 7/31/2025 9:01 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 165 E

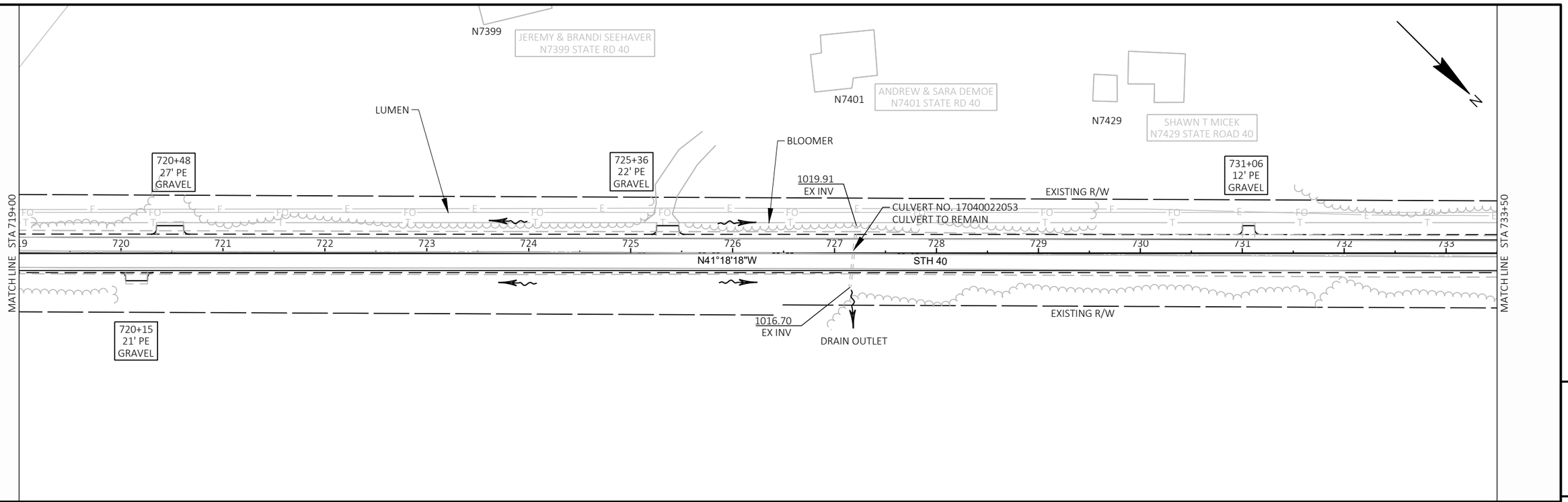


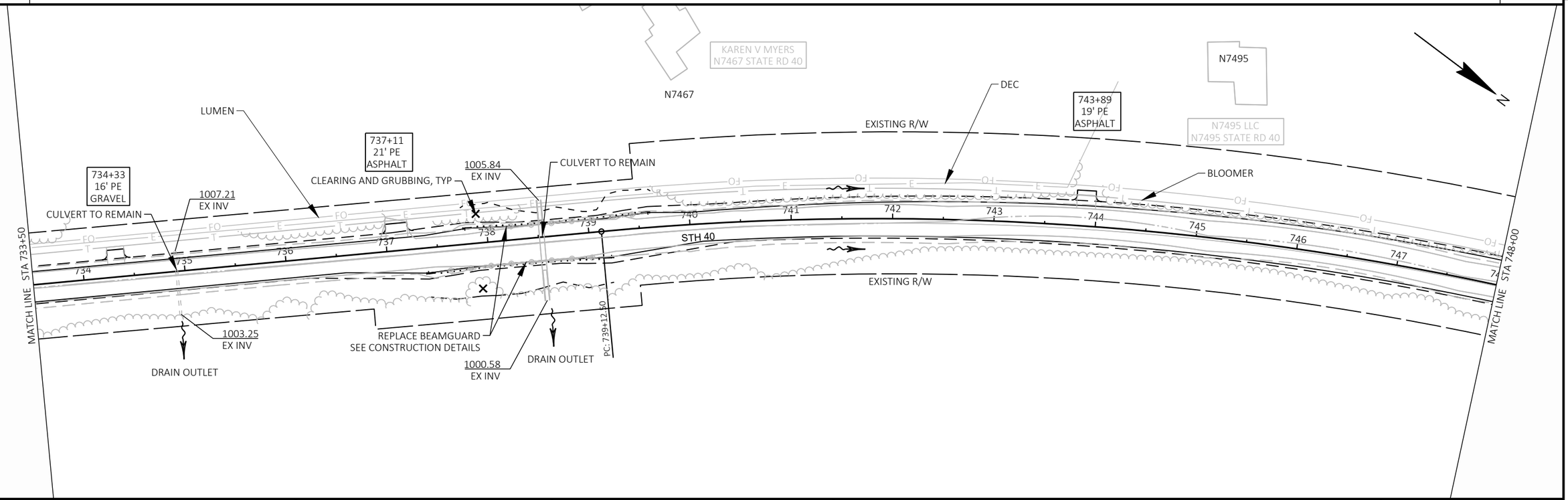
PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 166	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 11

PLOT DATE : 7/31/2025 9:02 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

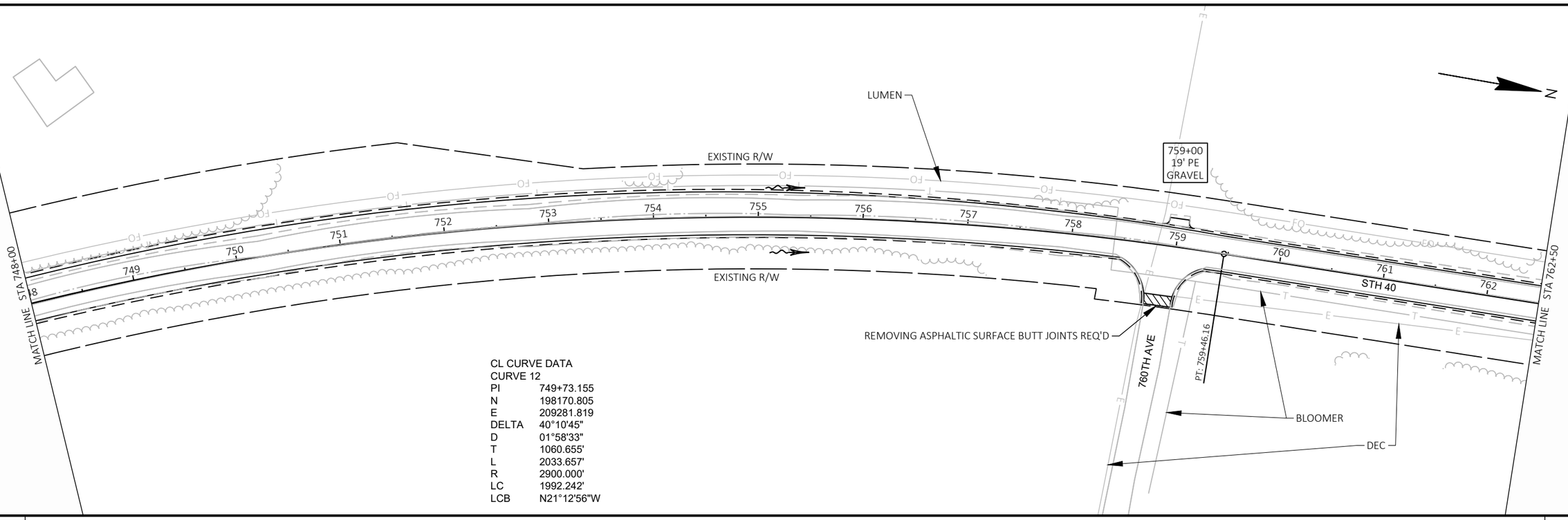
WISDOT/CADDS SHEET 44





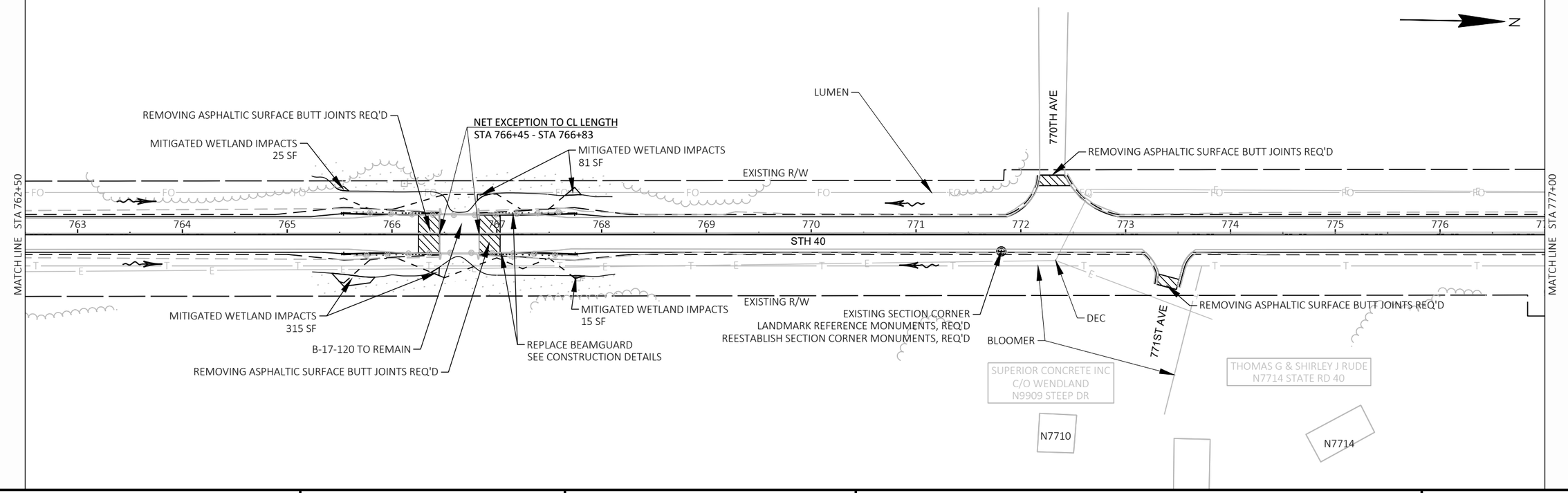
PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 167	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 12
PLOT DATE : 7/31/2025 9:03 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

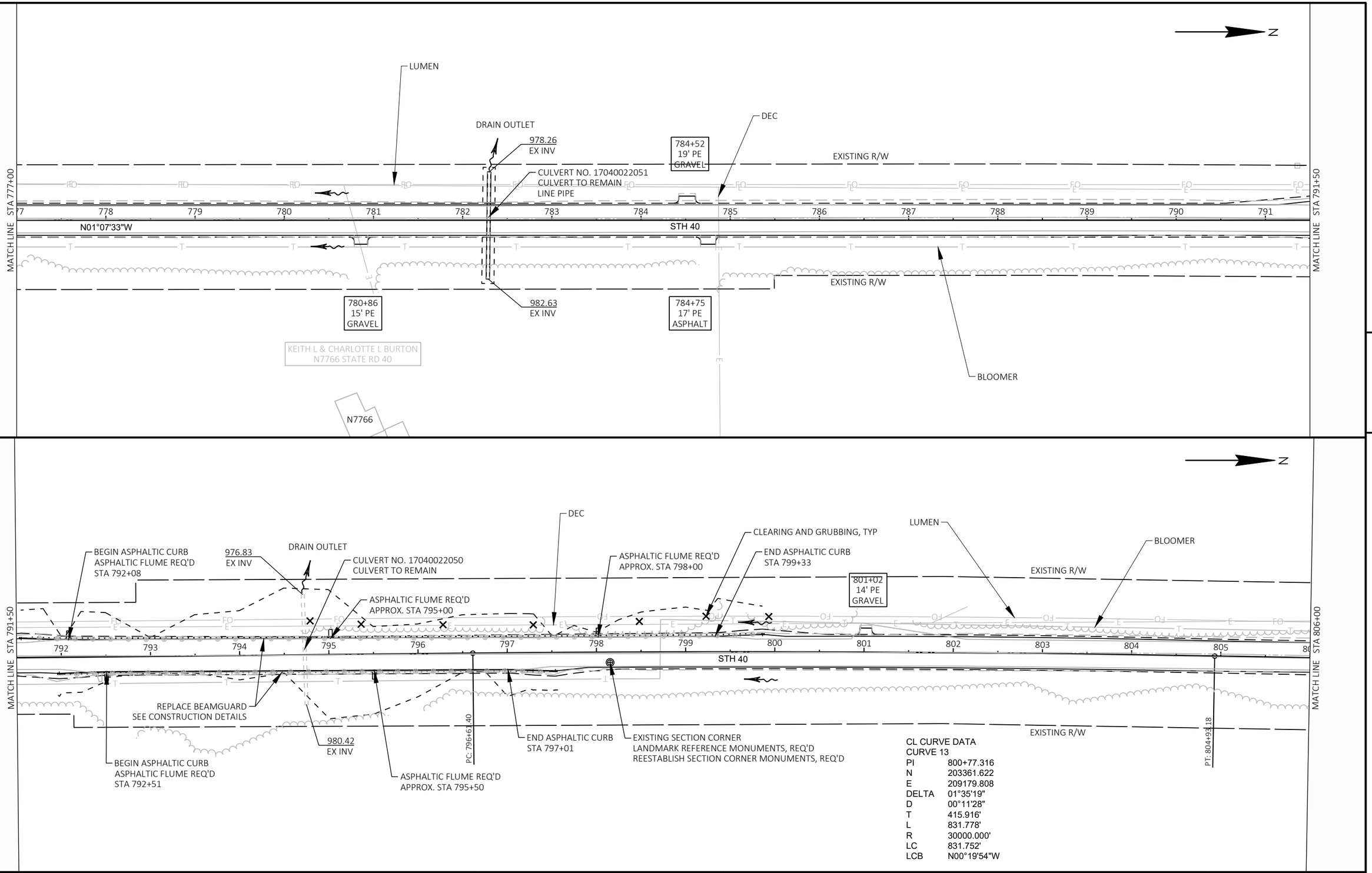


CL CURVE DATA
CURVE 12

PI	749+73.155
N	198170.805
E	209281.819
DELTA	40°10'45"
D	01°58'33"
T	1060.655'
L	2033.657'
R	2900.000'
LC	1992.242'
LCB	N21°12'56"W

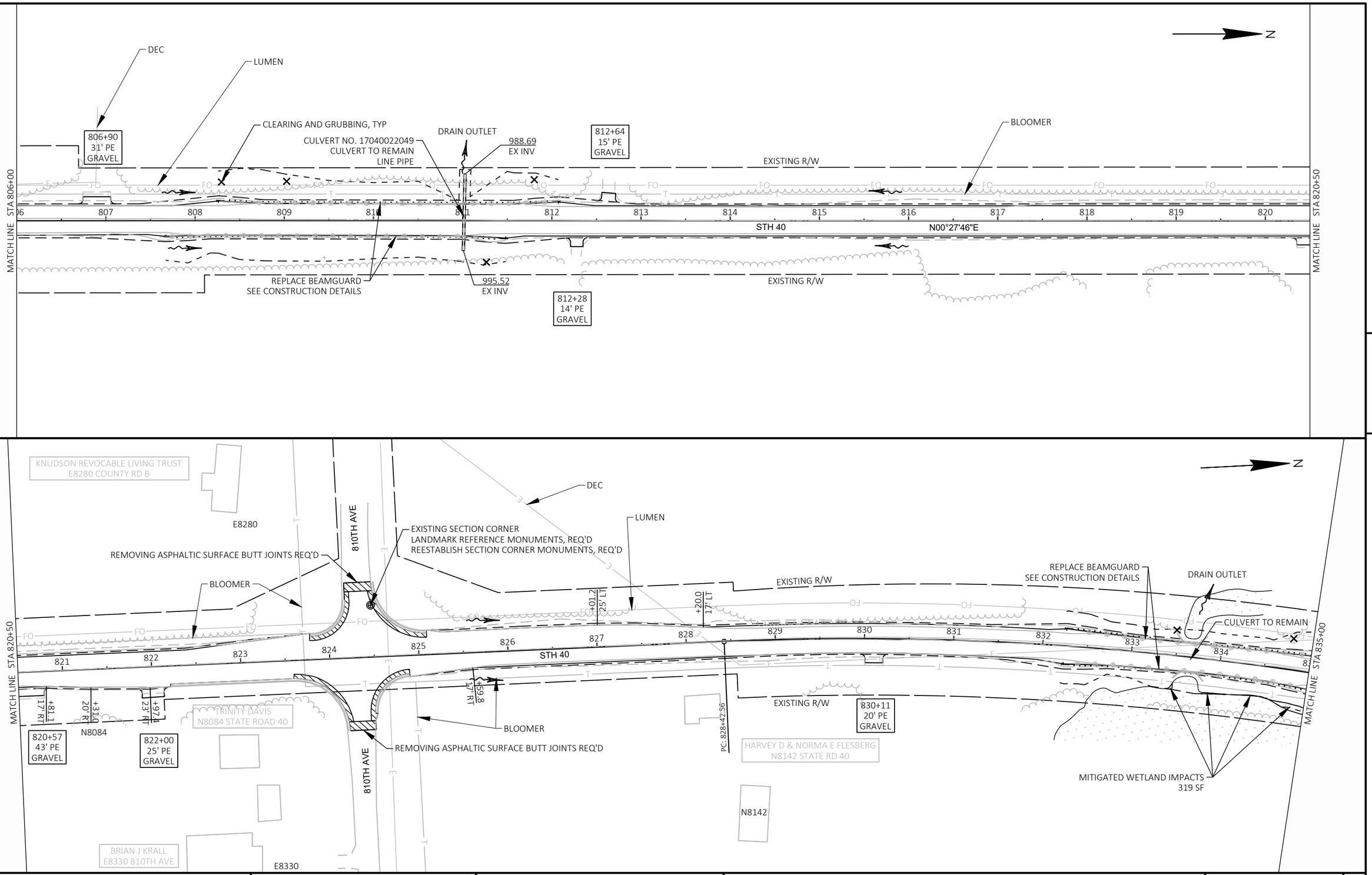


PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 168	E



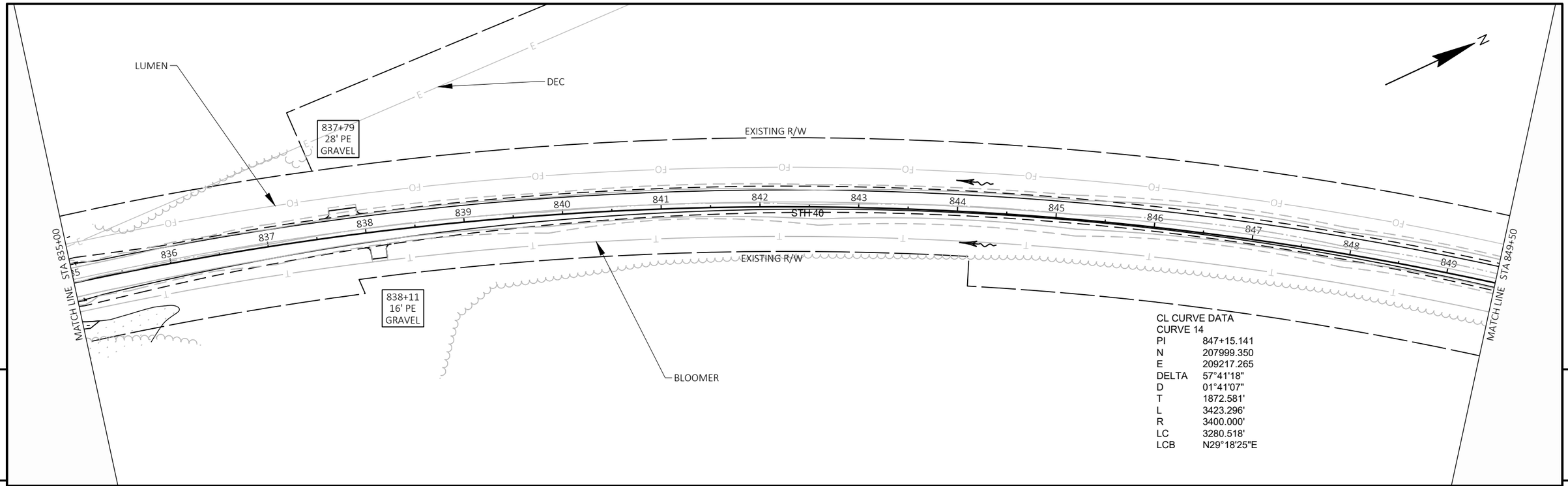
PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 169	E

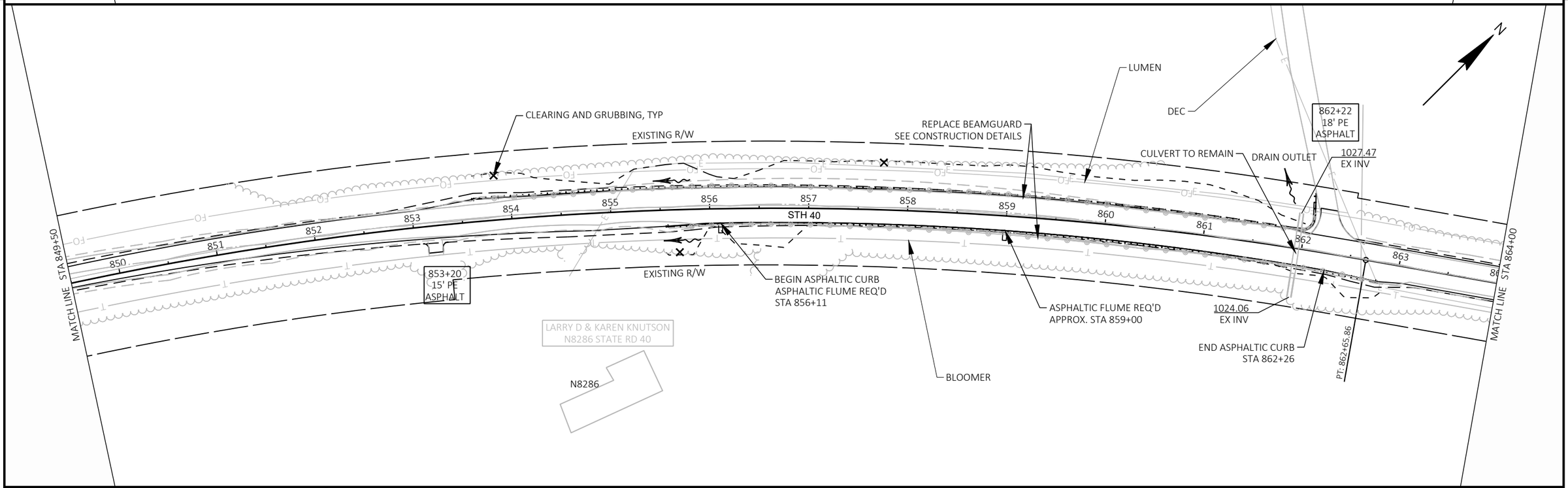
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 14
PLOT DATE : 7/31/2025 9:04 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 170	E

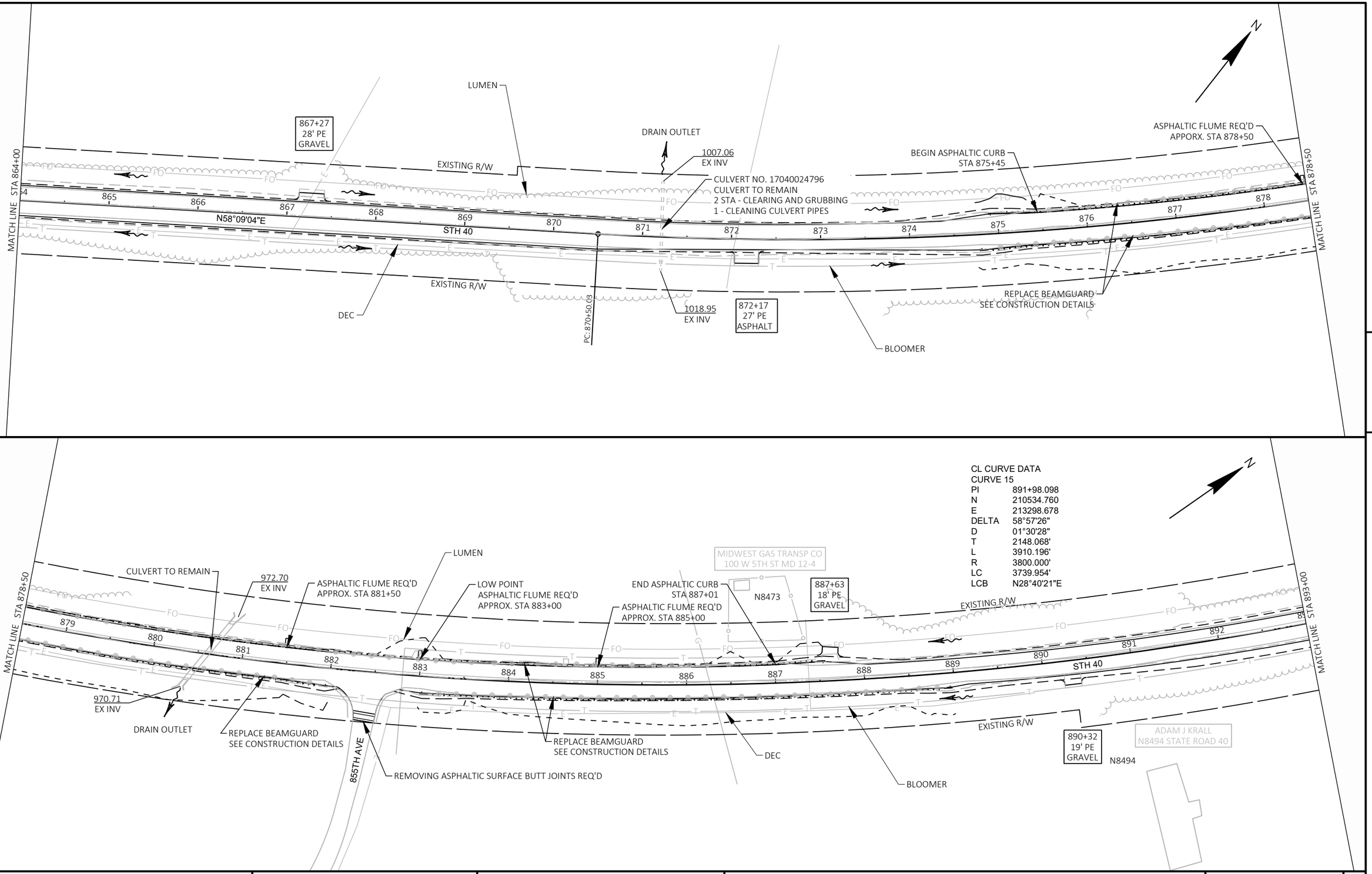
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 15
PLOT DATE : 7/31/2025 9:05 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





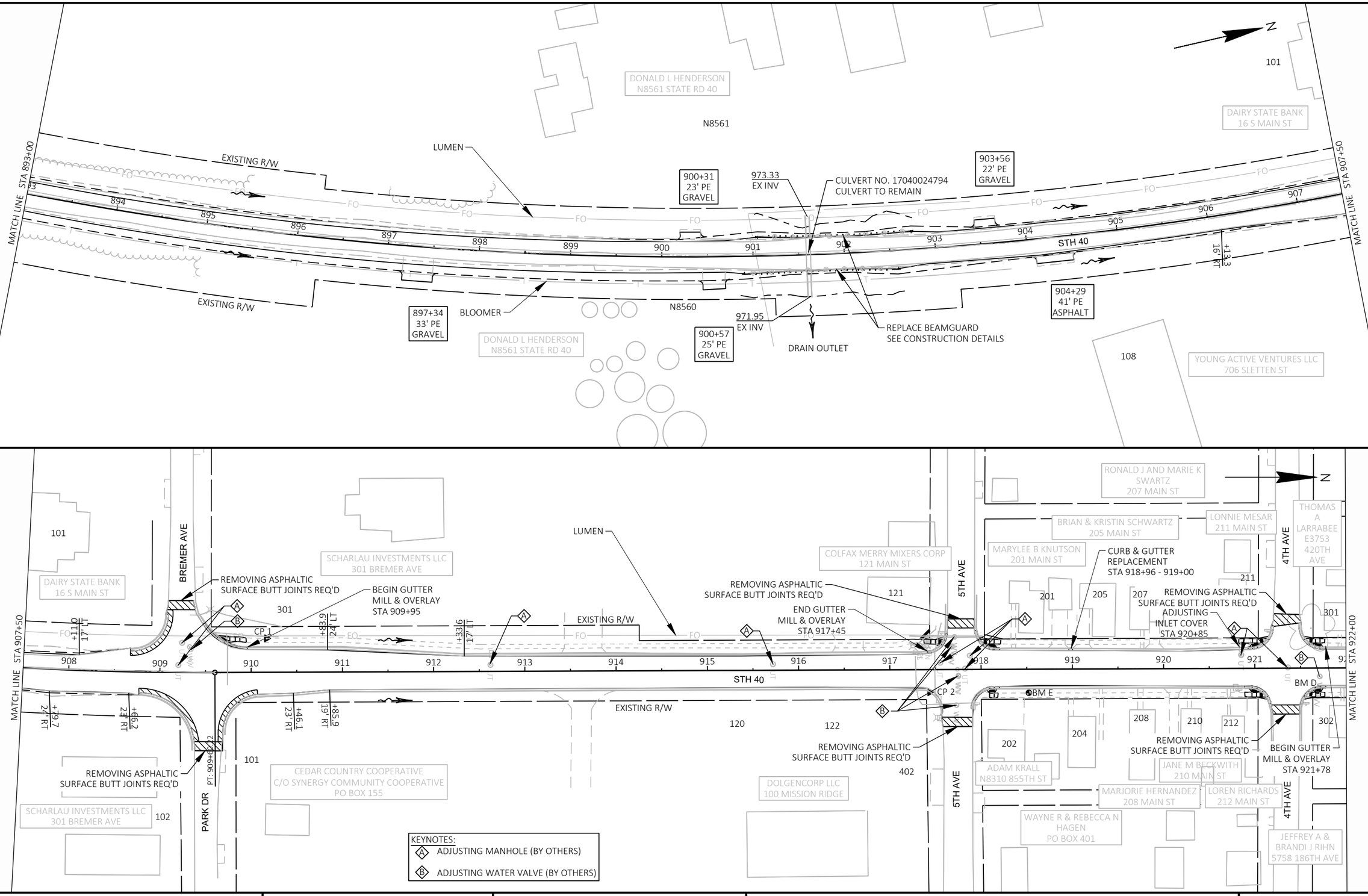
PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 171	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 16
PLOT DATE : 7/31/2025 9:05 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



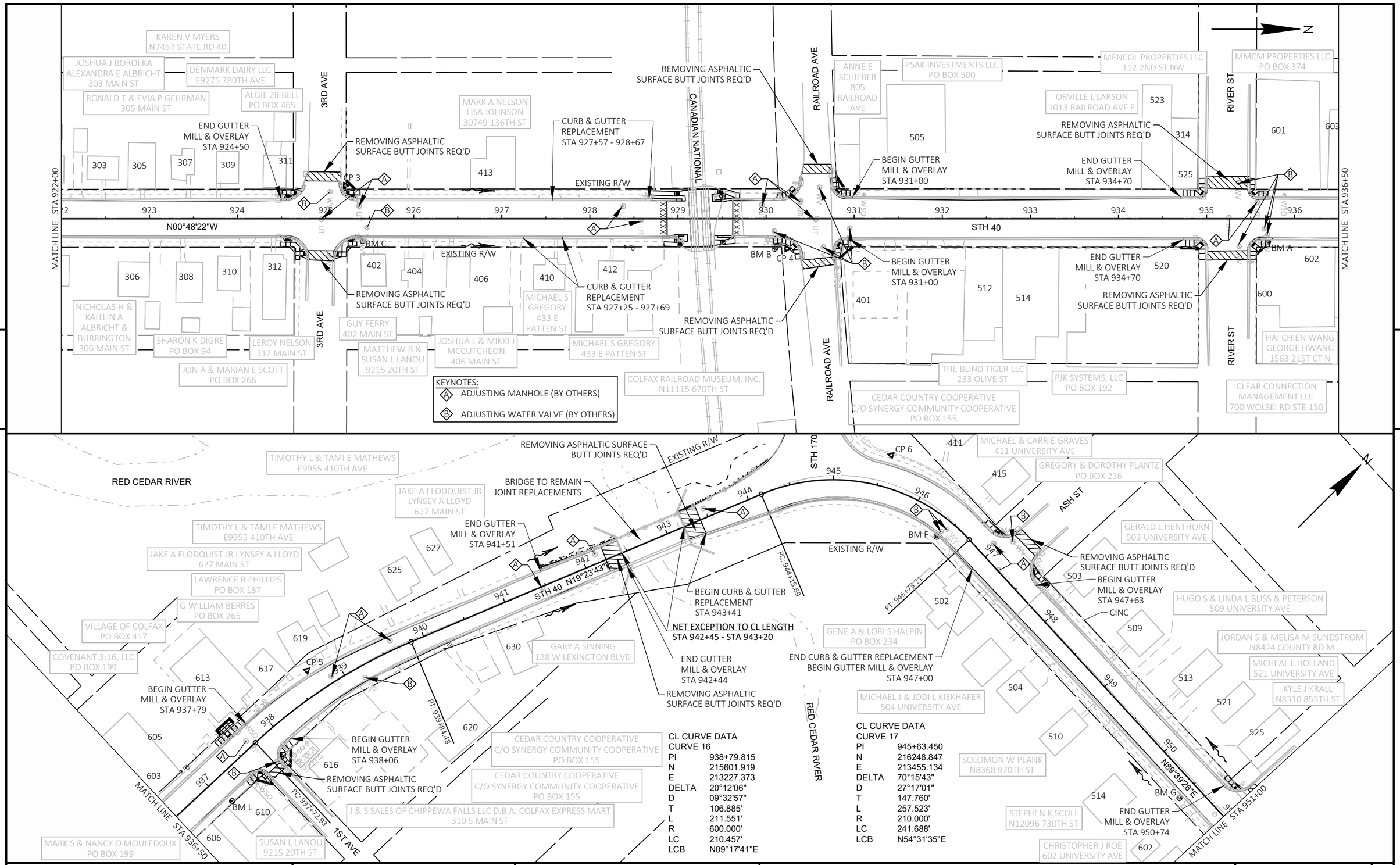
PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 172	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 17
PLOT DATE : 7/31/2025 9:06 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



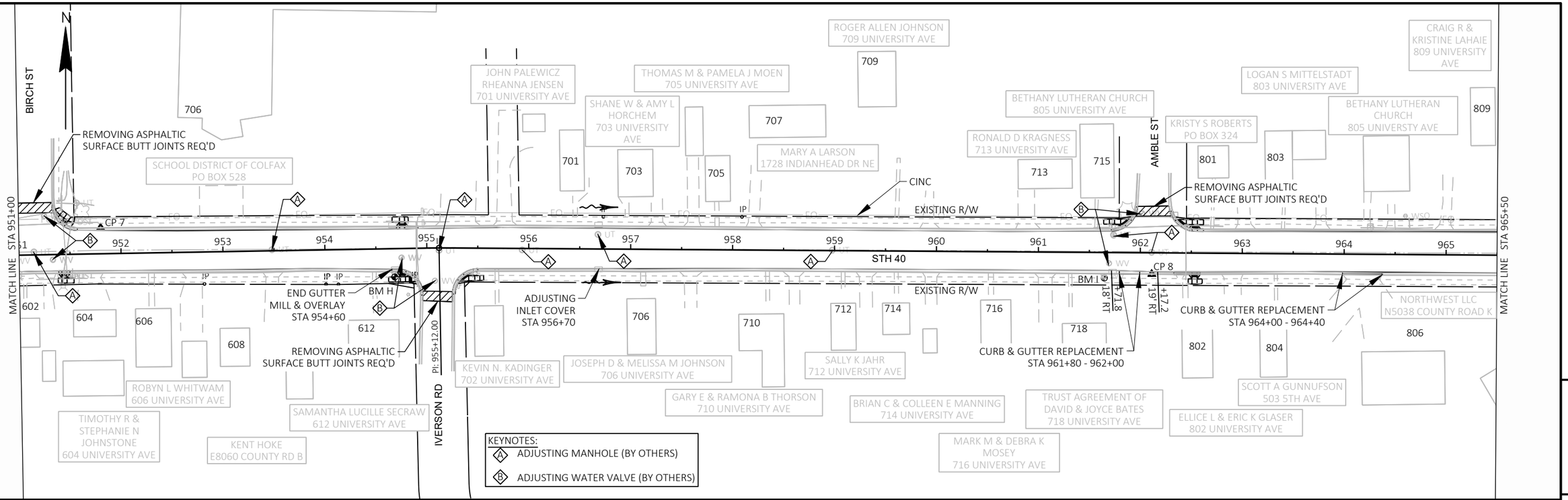
PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 173	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 18
PLOT DATE : 7/31/2025 9:07 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



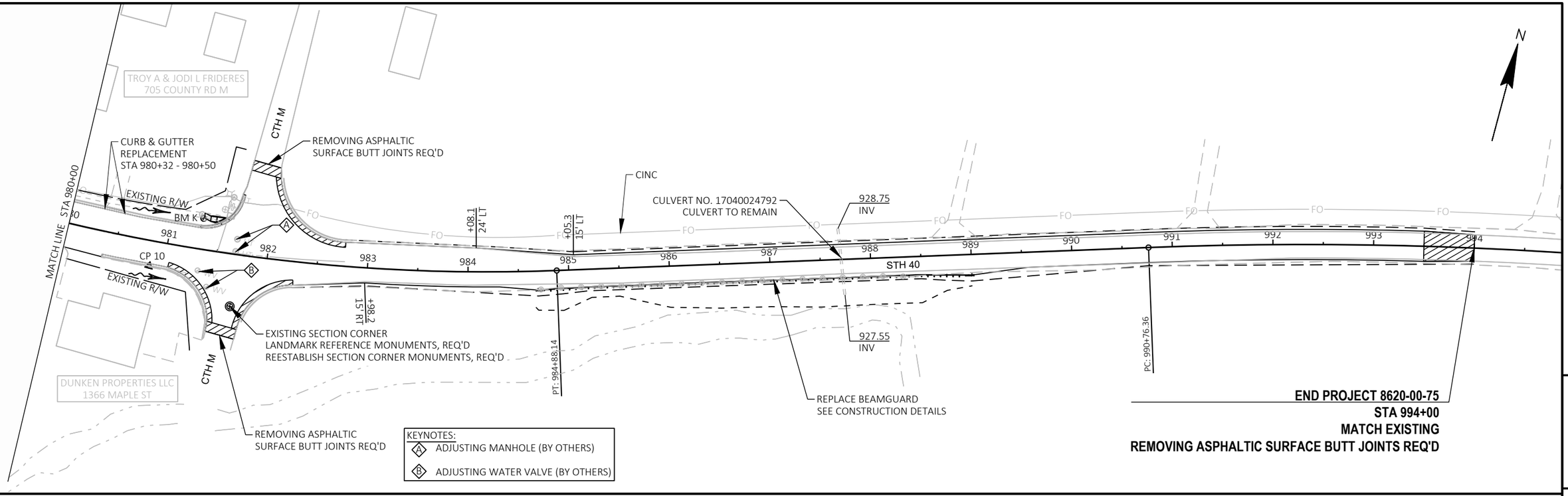
PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 174	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 19
PLOT DATE : 7/31/2025 9:07 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 175	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 20
PLOT DATE : 7/31/2025 9:08 PM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 8620-00-75	HWY: STH 40	COUNTY: DUNN	PLAN: STH 40	SHEET 176	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\SHEETSPLAN\050101_PP\050101_PP.DWG
LAYOUT NAME - 21
PLOT DATE : 7/31/2025 9:09 PM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:100 FT

Standard Detail Drawing List

08A05-22C	INLET COVERS TYPE F, HM, HM-S, S, T, HM-GJ & HM-GJ-S
08D01-23A	CONCRETE CURB & GUTTER
08D01-24A	CONCRETE CURB & GUTTER
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-22A	CURB RAMPS TYPES 1 AND 1-A
08D05-22B	CURB RAMPS TYPES 2 AND 3
08D05-22C	CURB RAMPS TYPES 4A AND 4A1
08D05-22D	CURB RAMPS TYPE 4B AND 4B1
08D05-22E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-22F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-22G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
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
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13A10-03A	SHOULDER RUMBLE STRIPS - ASPHALT
13A10-03G	SHOULDER AND EDGE LINE RUMBLE STRIPS - CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS
13A10-03H	SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES
13A11-04A	CENTERLINE RUMBLE STRIPS - ASPHALT
13A11-04D	CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS
13B01-11A	PAVEMENT DETAILS FOR RAILROAD APPROACH
13B01-11B	TYPICAL SECTIONS FOR RAILWAY APPROACH
13C19-03	HMA LONGITUDINAL JOINTS
14B07-16A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16J	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16K	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16L	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16M	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16N	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B29-01	SAFETY EDGE
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-04A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-04B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-04C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B53-03A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

6

Standard Detail Drawing List

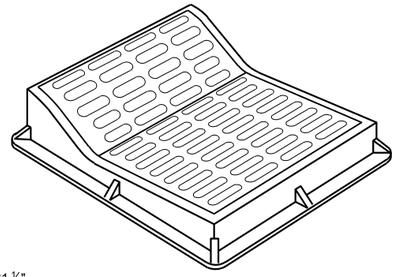
14B53-03D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-03I	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-09F	ADVANCED WIDTH RESTRICTION SIGNING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-16A	PAVEMENT MARKING SYMBOLS
15C07-16B	PAVEMENT MARKING WORDS
15C07-16C	PAVEMENT MARKING ARROWS
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-24B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-24C	PAVEMENT MARKING (TURN LANES)
15C08-24D	PAVEMENT MARKING (TURN LANES)
15C09-13A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-09B	TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C19-10A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-10B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-10C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15C35-06B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-06C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-11A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11K	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-11L	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D33-09	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D39-03	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL
15D48-01	TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

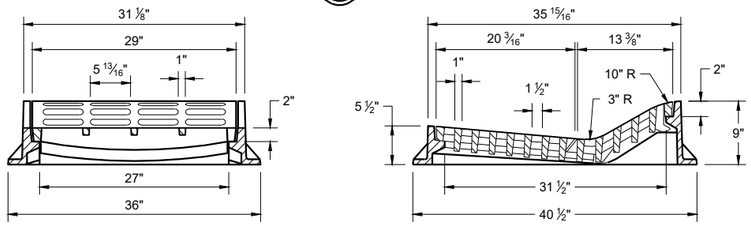
6

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.

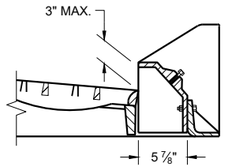
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.





TYPE "F"

USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"

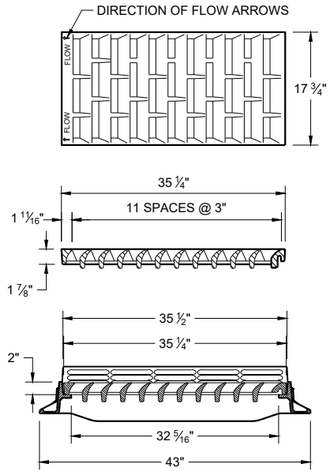


ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

USE WITH TYPES "G" AND "J" CONCRETE CURB AND GUTTER, 30 INCH
NOTED AS TYP "HM-GJ" ON DRAINAGE TABLE

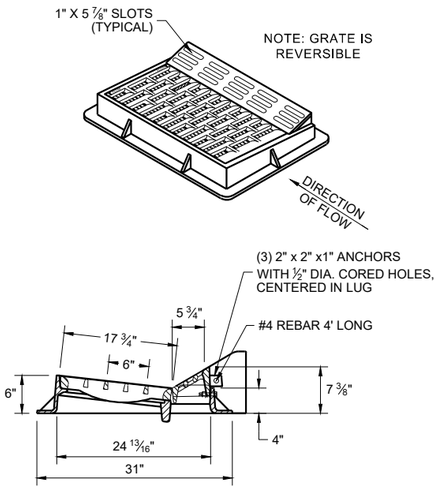
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.



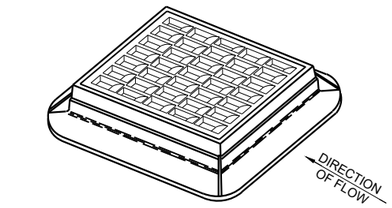
TYPE "HM"

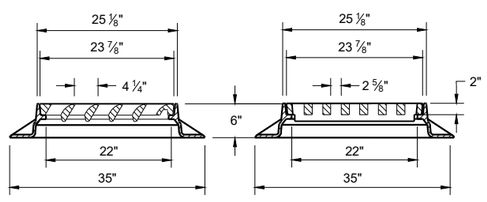
USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"



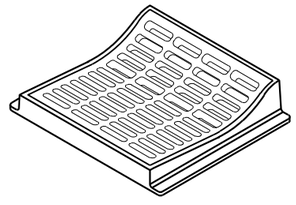
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

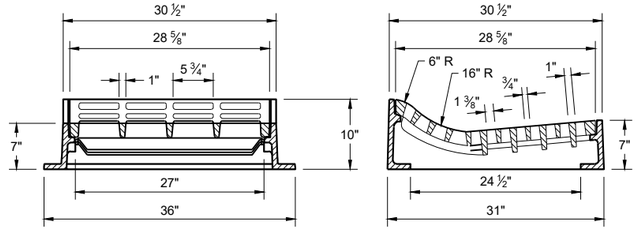
NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.





TYPE "S"





TYPE "T"

USE WITH TYPES "R" AND "T" CONCRETE CURB AND GUTTER, 36"

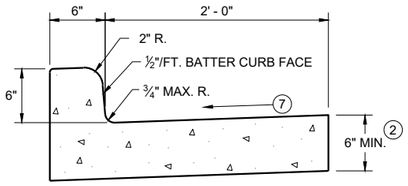
INLET COVERS
TYPES F, HM, HM-S, S, T, HM-GJ AND HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

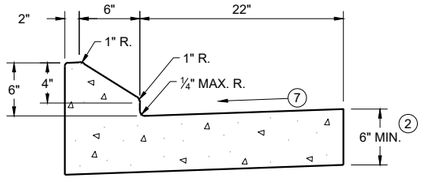
APPROVED
February 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

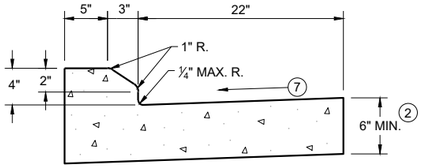
6
SDD 08A05-22c



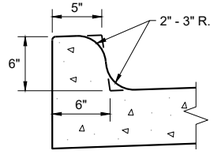
TYPES A (1) & D



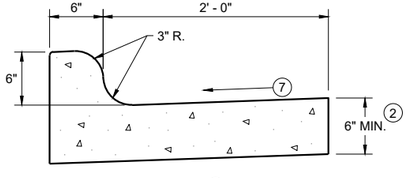
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

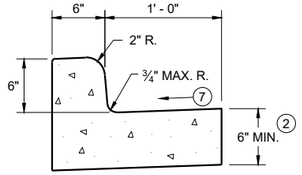


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



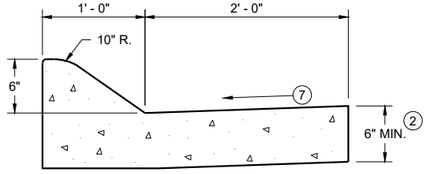
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

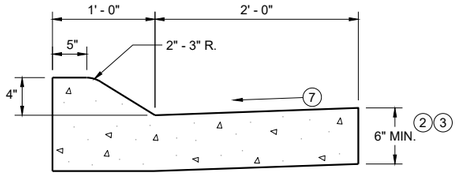


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

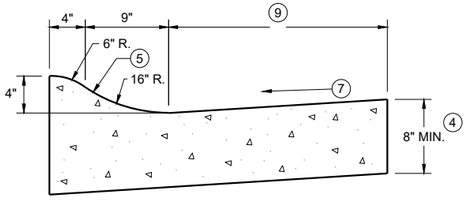


6" SLOPED CURB TYPES A (1) & D



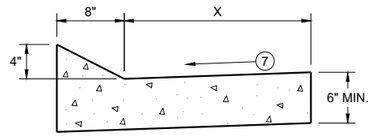
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

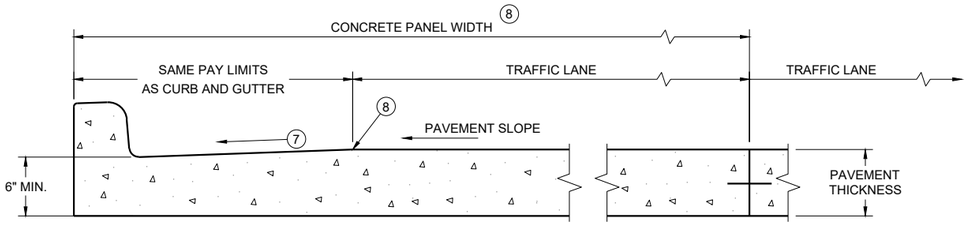


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

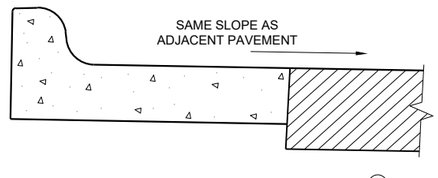
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

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

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

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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

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

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

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

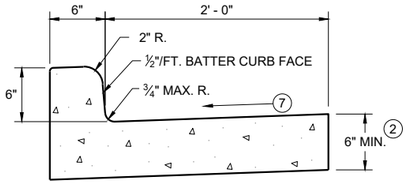
(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

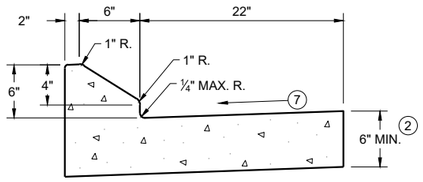
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

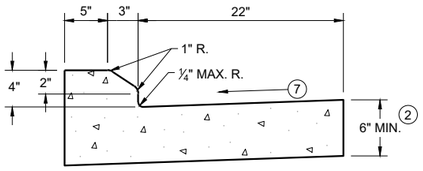
SDD 08D01-23a



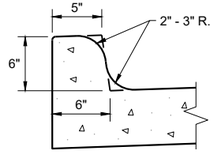
TYPES A (1) & D



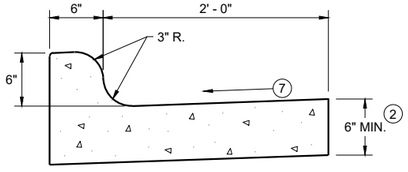
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

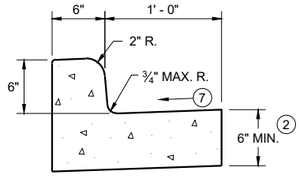


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



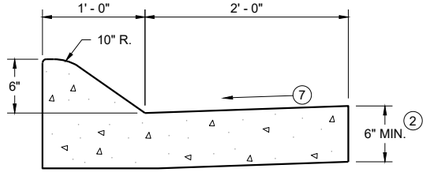
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

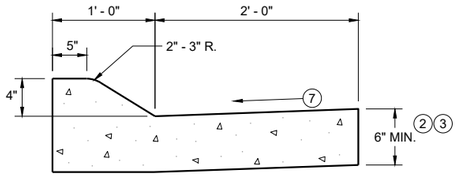


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

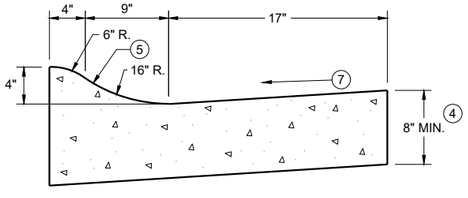


6" SLOPED CURB TYPES A (1) & D



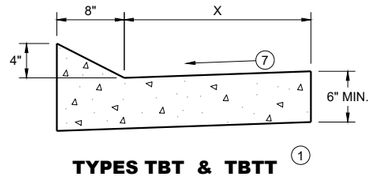
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



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

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

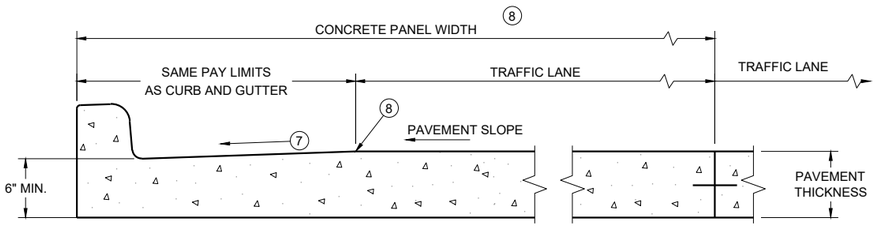


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

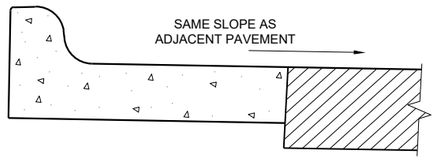
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER *

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

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

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

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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

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

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

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

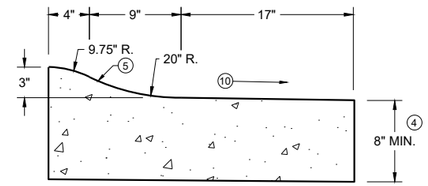
(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

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

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



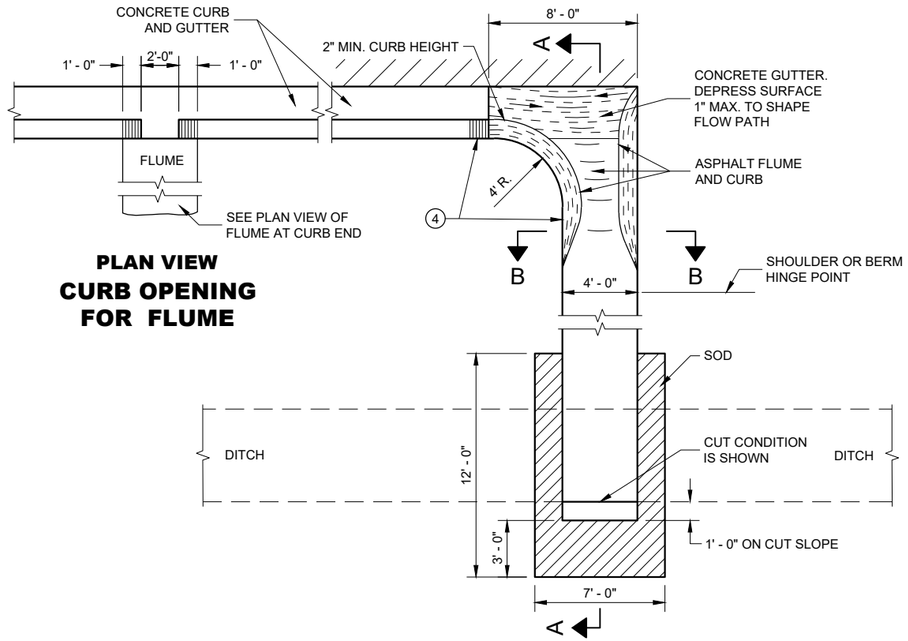
3" SLOPED CURB TYPES R (1) & T

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

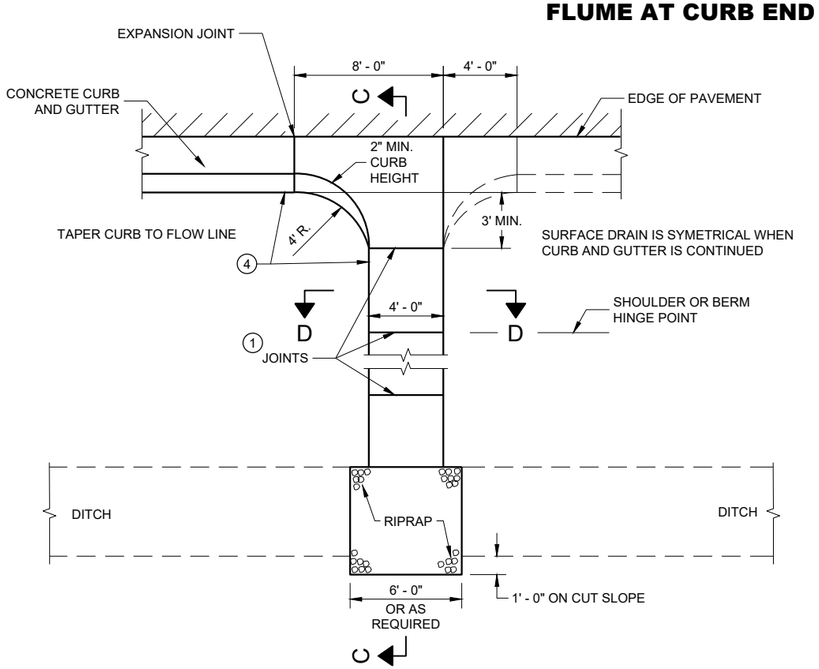
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



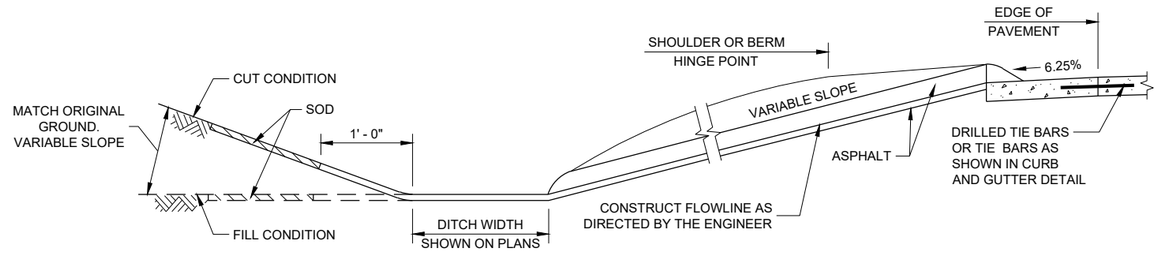
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

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

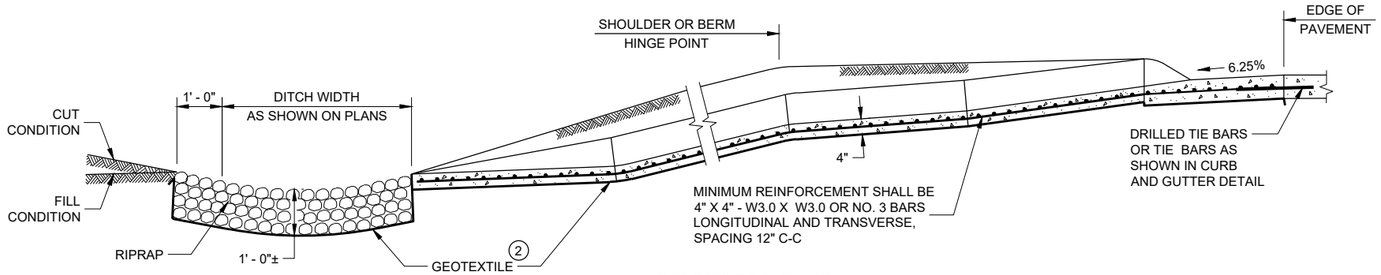
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

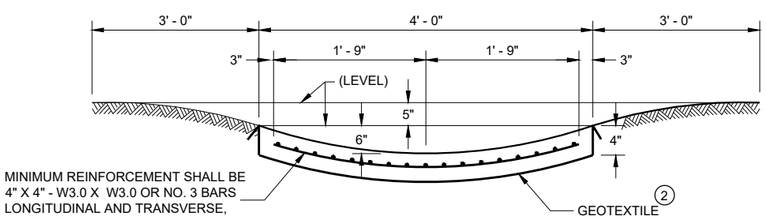


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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SDD 08D04 - 07

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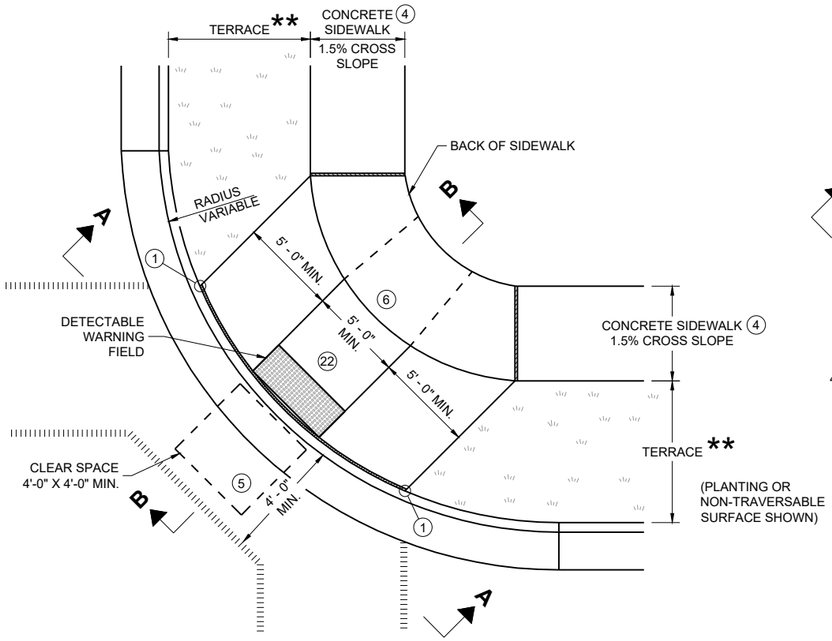
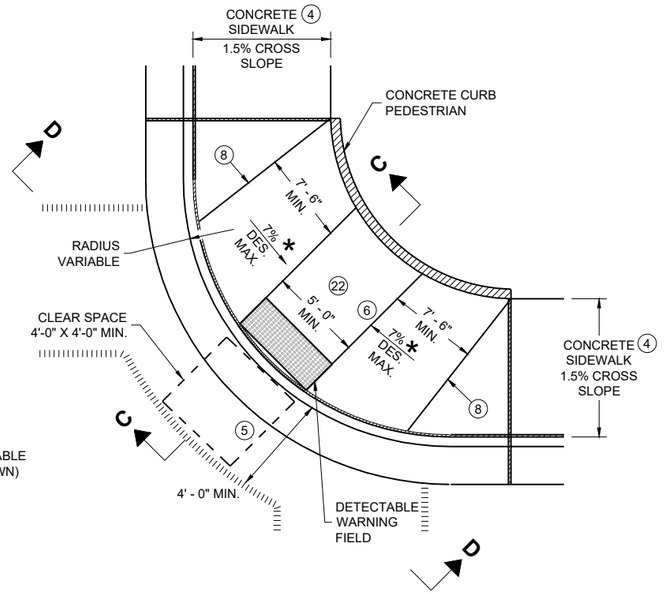
SDD 08D04 - 07



PLAN VIEW

CURB RAMP TYPE 1

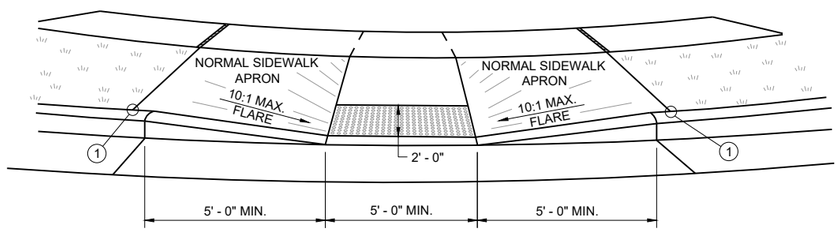
(CENTER OF CORNER RADIUS)



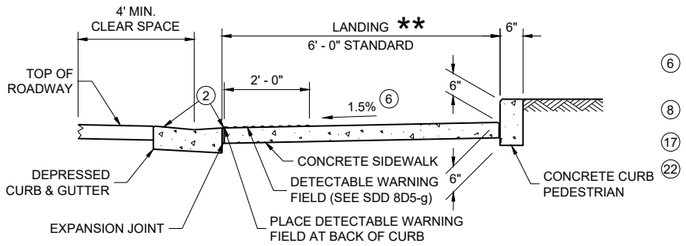
PLAN VIEW

CURB RAMP TYPE 1 - A

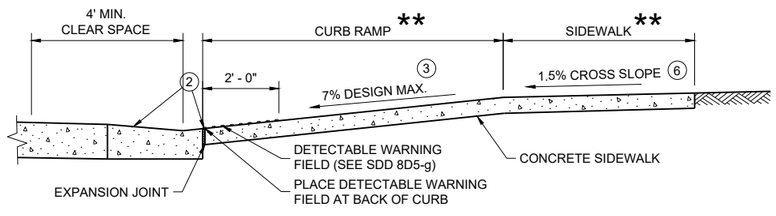
(NO TERRACE)



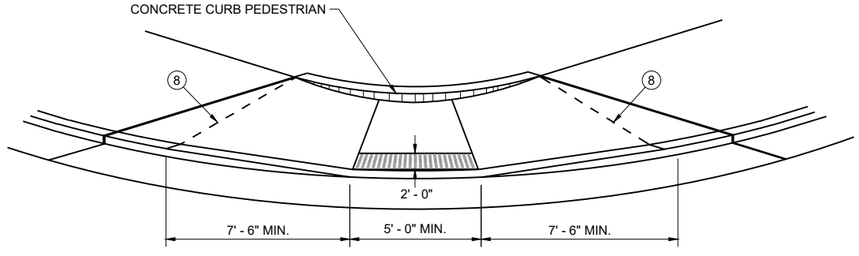
VIEW A - A FOR TYPE 1



SECTION C - C FOR TYPE 1 - A



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE CURB RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF CURB RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

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

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE CURB RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

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

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

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

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

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

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

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

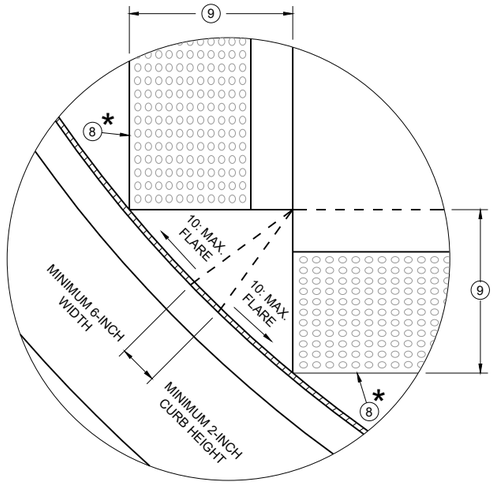
(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

LEGEND

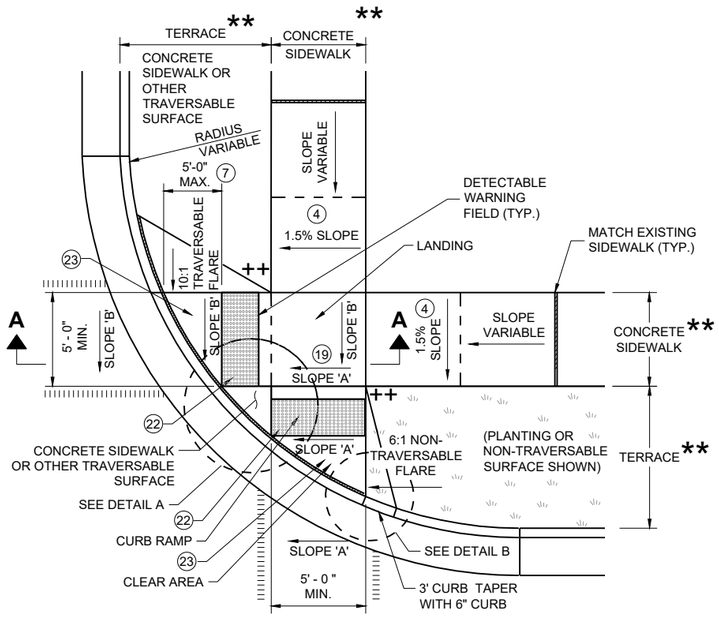
═══	½" EXPANSION JOINT SIDEWALK
– – – –	CONTRACTION JOINT FIELD LOCATED
ıı ıı ıı ıı	PAVEMENT MARKING CROSSWALK (WHITE)
*	MAXIMUM 8.3%
**	WIDTH SHOWN ELSEWHERE IN THE PLANS

CURB RAMPS TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



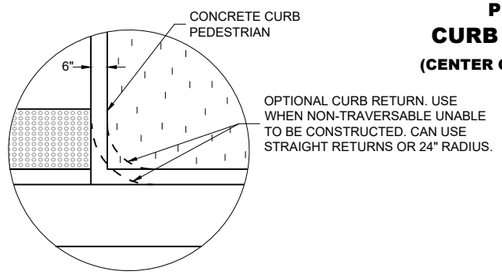
DETAIL A



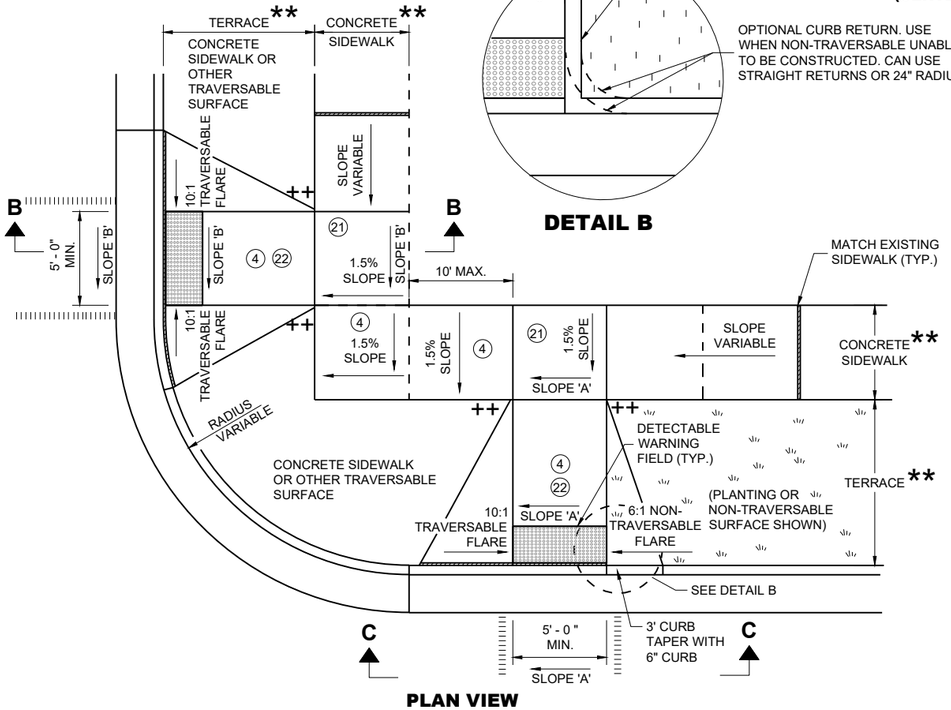
PLAN VIEW

CURB RAMP TYPE 2

(CENTER OF CORNER RADIUS)



DETAIL B



PLAN VIEW

CURB RAMP TYPE 3

(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

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

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

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

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

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

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% DESIGN MAXIMUM SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% DESIGN MAXIMUM SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

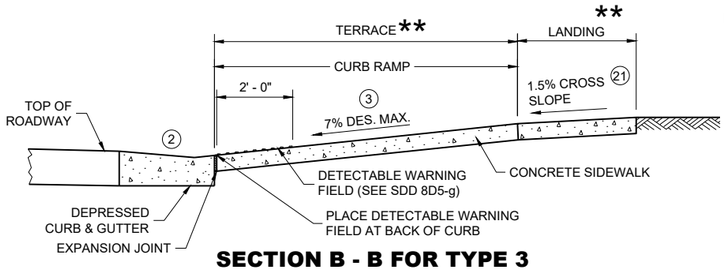
(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

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

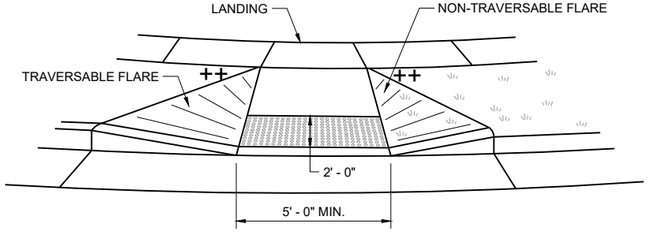
(21) PROVIDE A LANDING WITH A SLOPE PARALLEL TO ROADWAY THAT MATCHES SLOPE AT THE BOTTOM OF THE ADJACENT RAMP. SLOPE PERPENDICULAR TO ROADWAY SHALL BE 2.1% MAXIMUM. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

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

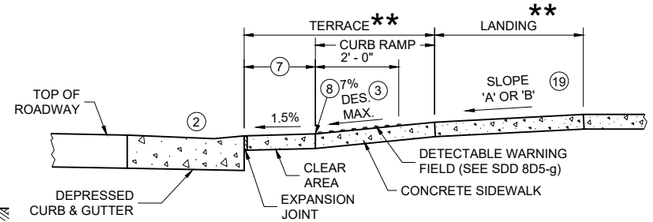
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3



SECTION A - A FOR TYPE 2

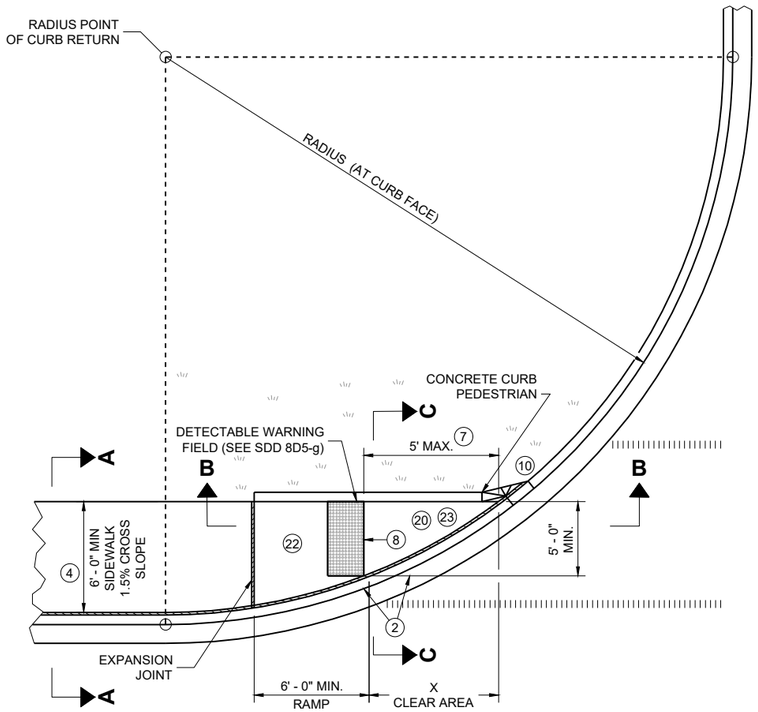
LEGEND

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

CURB RAMPS TYPE 2 AND 3

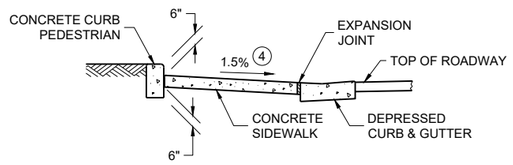
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 08D05-22b

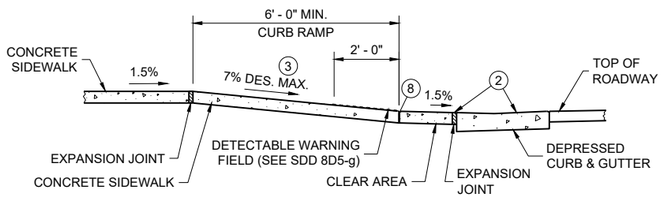


PLAN VIEW

CURB RAMP TYPE 4A



SECTION C - C FOR TYPE 4A



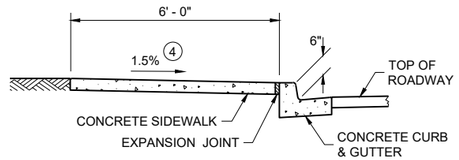
SECTION B - B FOR TYPE 4A AND TYPE 4A1

LEGEND

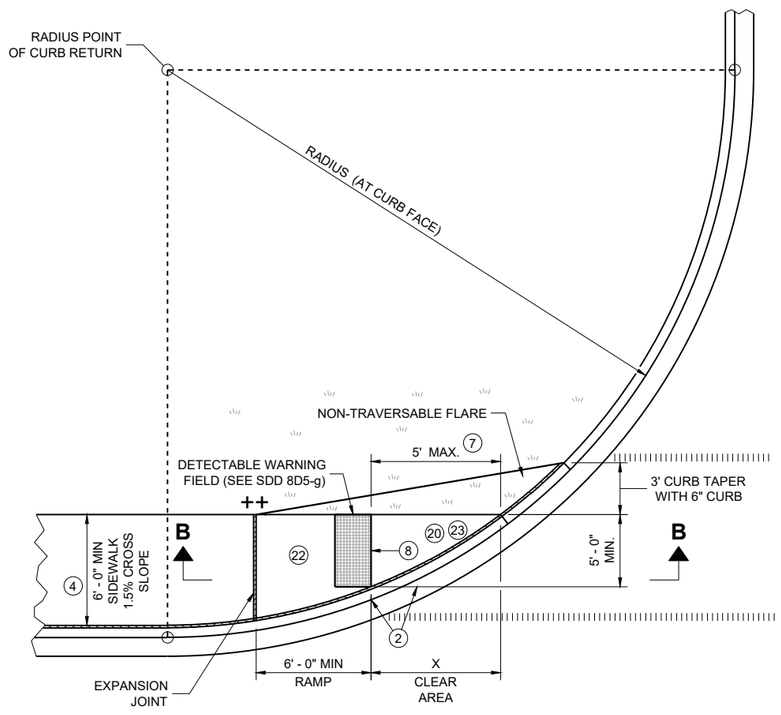
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)
- ++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

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

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A



PLAN VIEW

CURB RAMP TYPE 4A1

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

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

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

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

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

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

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

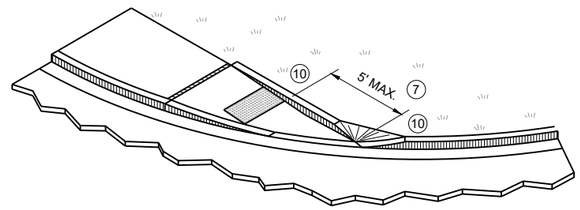
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

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

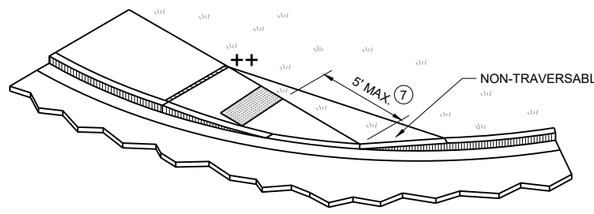
(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

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

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



ISOMETRIC VIEW FOR TYPE 4A



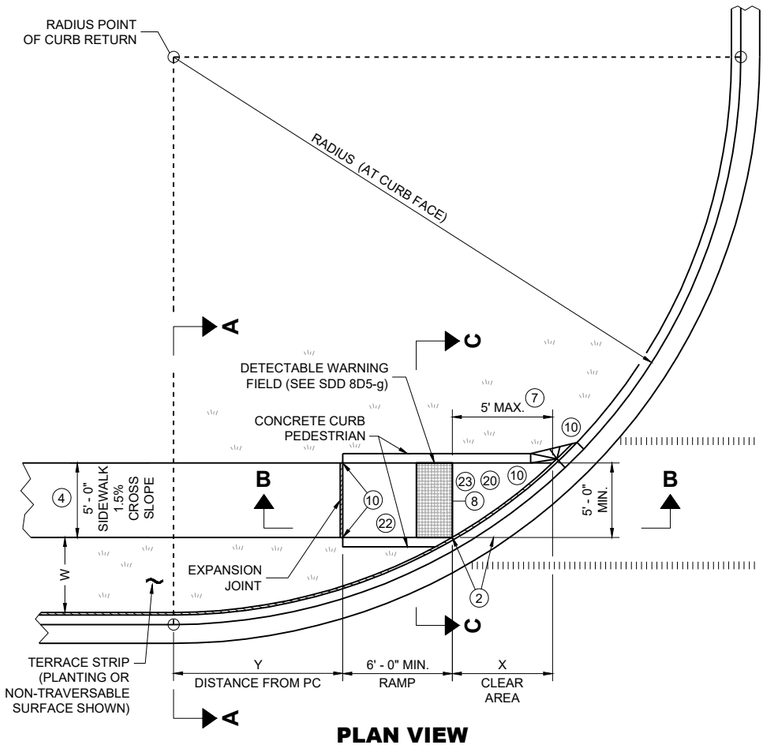
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

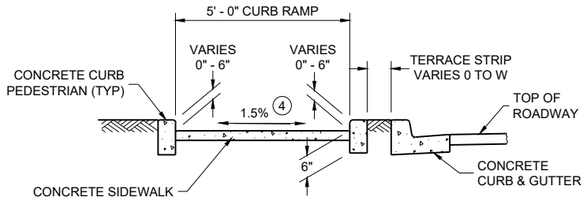
SDD 08D05-22c



PLAN VIEW
CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET			4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET									4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET															4' - 10 ¾"	19' - 8 ¼"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C - C FOR TYPE 4B

LEGEND

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

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

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

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

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

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

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

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

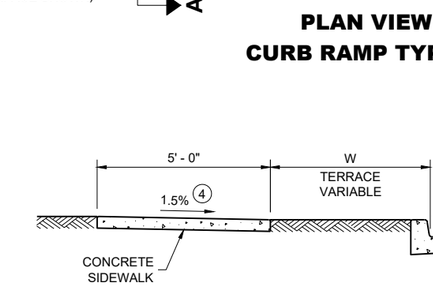
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

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

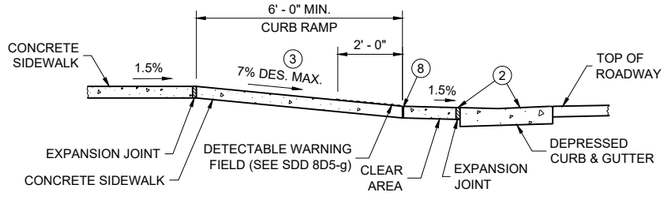
(20) MAXIMUM 1.5% DESIGN MAXIMUM AND 2.1% PROWAG MAXIMUM RUNNING SLOPE ON CLEAR AREA. CROSS SLOPE OF CLEAR AREA SHALL MATCH THE CROSS SLOPE OF THE ADJACENT CROSSWALK.

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

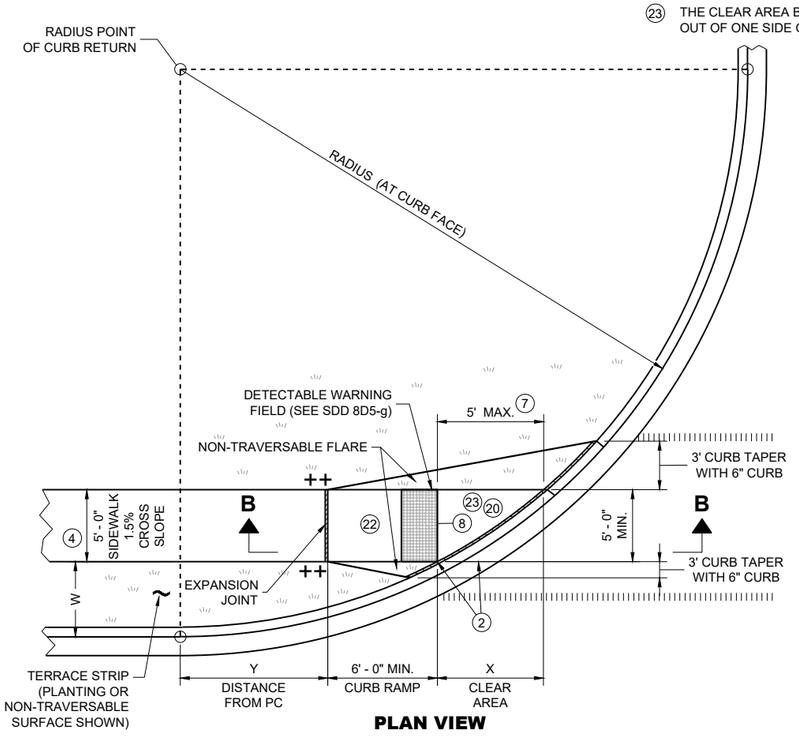
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



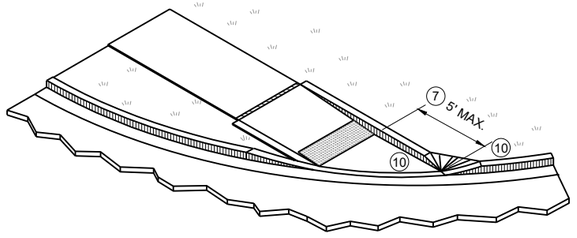
SECTION A - A FOR TYPE 4B



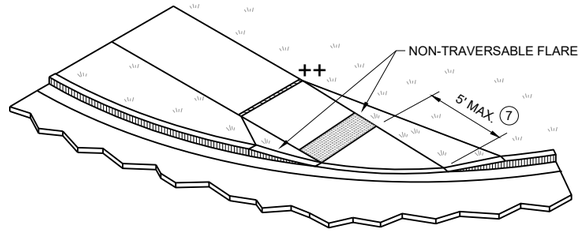
SECTION B - B FOR TYPE 4B AND TYPE 4B1



PLAN VIEW
CURB RAMP TYPE 4B1



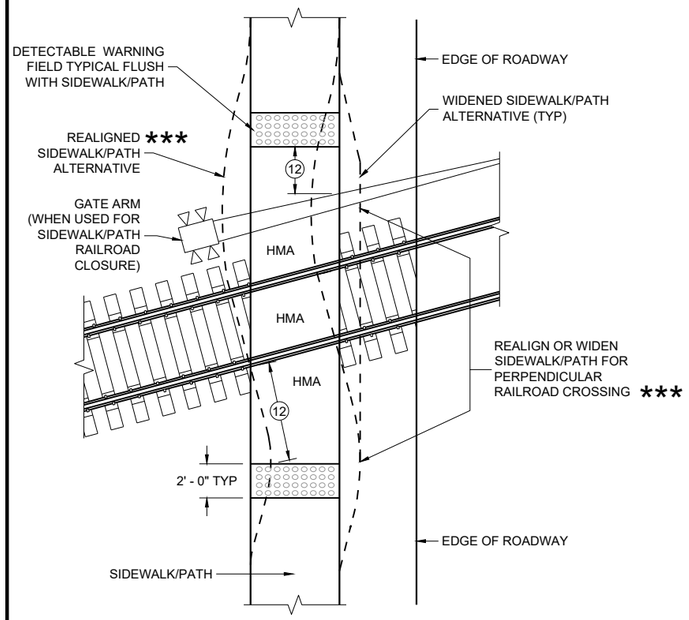
ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

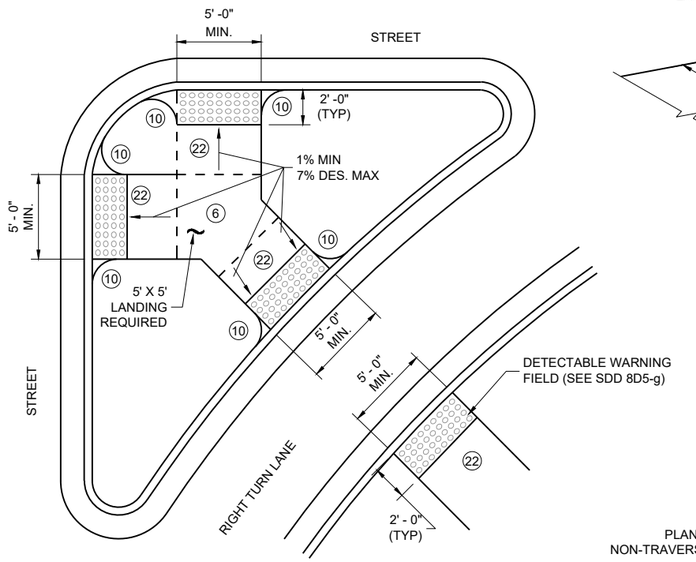
CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CURB RAMP TYPE 8

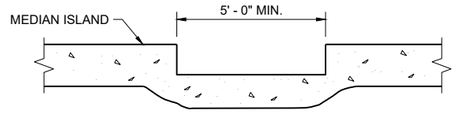
DETECTABLE WARNINGS FOR SIDEWALKS OR SHARED USE PATHS AT RAILROAD CROSSINGS



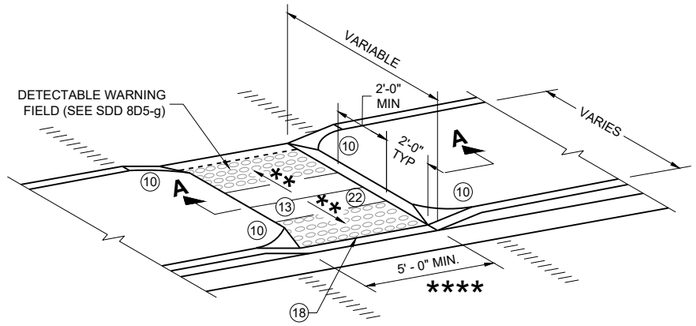
CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

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

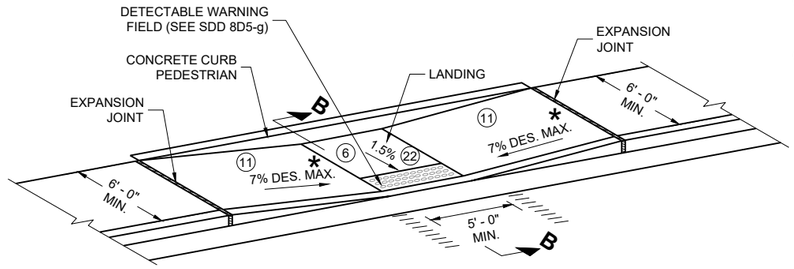


SECTION A - A FOR TYPE 5



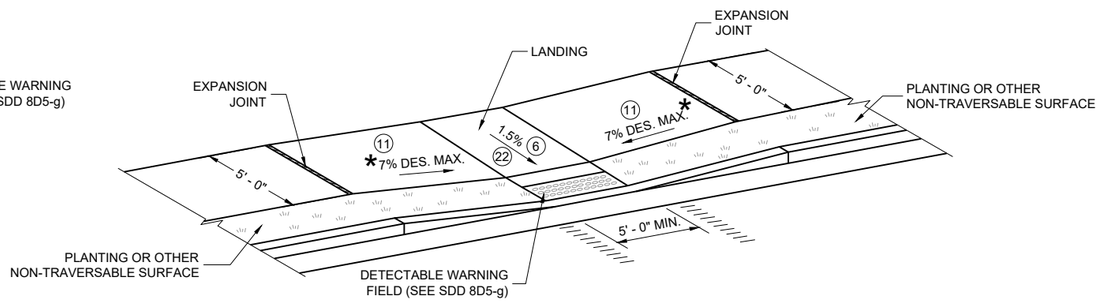
CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING



CURB RAMP TYPE 7A

FOR INTERSECTIONS AND MID BLOCK CROSSINGS



CURB RAMP TYPE 7B

FOR INTERSECTIONS AND MID BLOCK CROSSINGS

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1%.

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

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

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

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

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

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

(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK/PATH, WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD TRACK IS 15 FEET MAXIMUM AND 12 FEET MINIMUM, 15 FEET TYPICAL FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

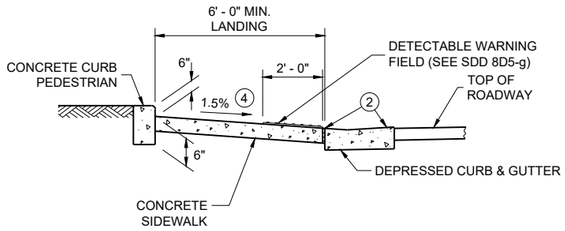
(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

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

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

LEGEND

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



SECTION B - B FOR TYPE 7A

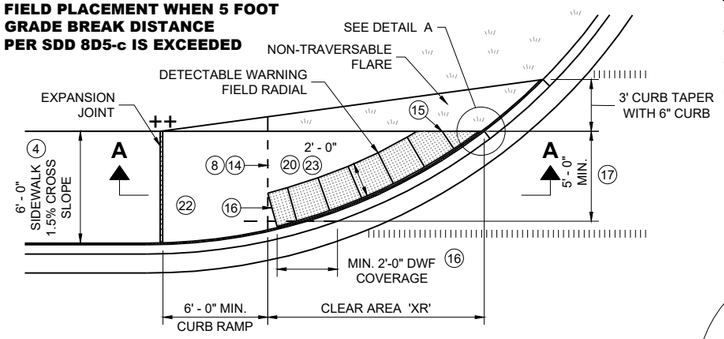
CURB RAMPS
TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05-22e

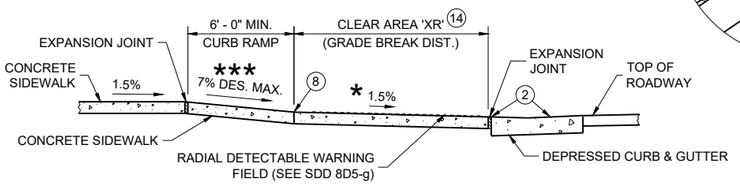
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

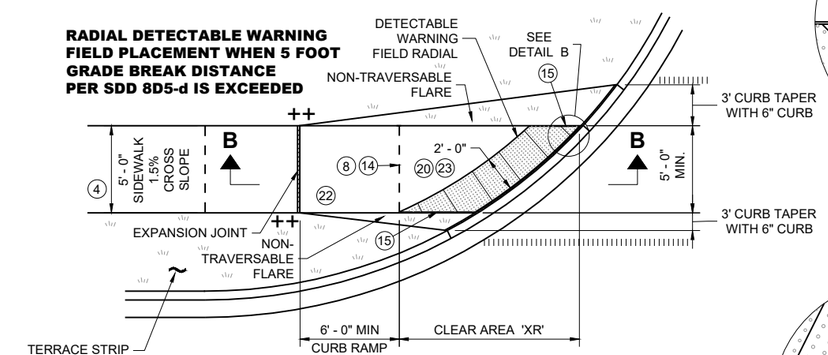
CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



SECTION A - A FOR TYPE 4A1

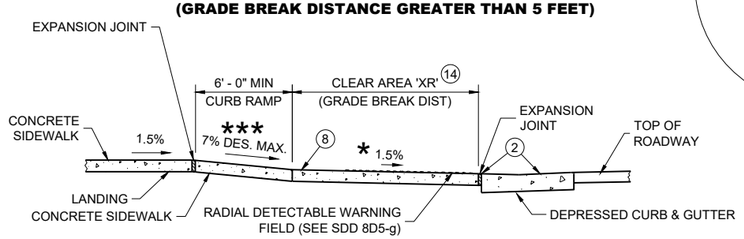
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4B1

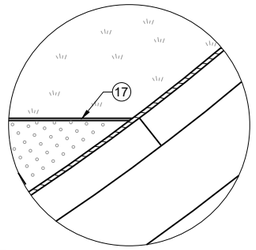
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



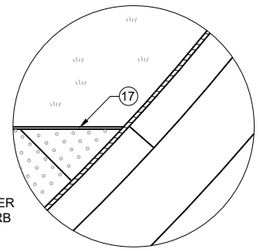
SECTION B - B FOR TYPE 4B1

LEGEND

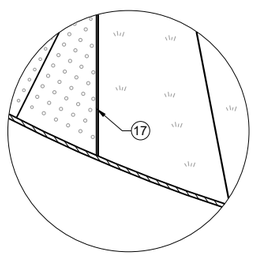
═══	½" EXPANSION JOINT SIDEWALK
– – – –	CONTRACTION JOINT SIDEWALK
ıı ıı ıı ıı	PAVEMENT MARKING CROSSWALK (WHITE)
**	WIDTH SHOWN ELSEWHERE IN THE PLANS
***	MAXIMUM 8.3%
++	CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



DETAIL A

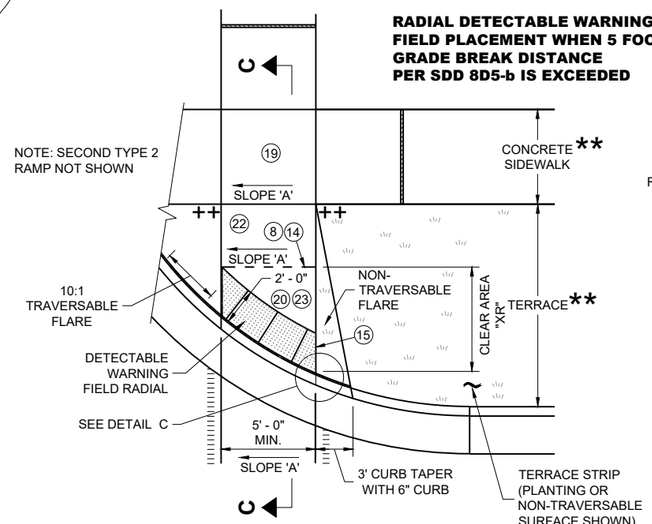


DETAIL B



DETAIL C

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

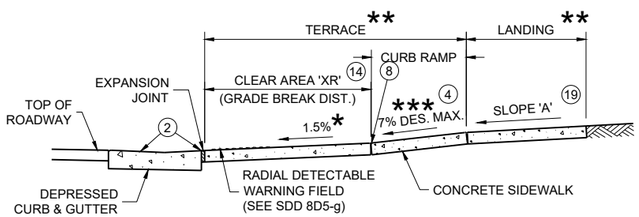


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)



SECTION C - C FOR TYPE 2

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

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

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

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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

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

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

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

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

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

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

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

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

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

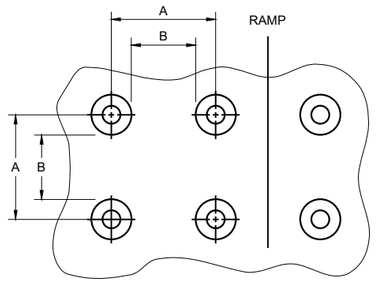
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.

CURB RAMPS
RADIAL DETECTABLE WARNING

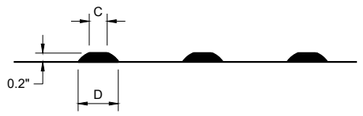
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

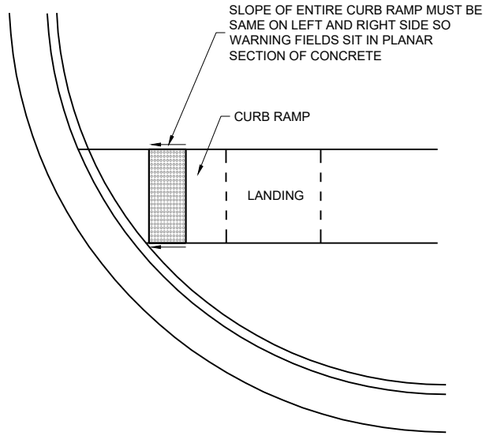
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW



DETECTABLE WARNING FIELD
PLANAR INSTALLATION

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

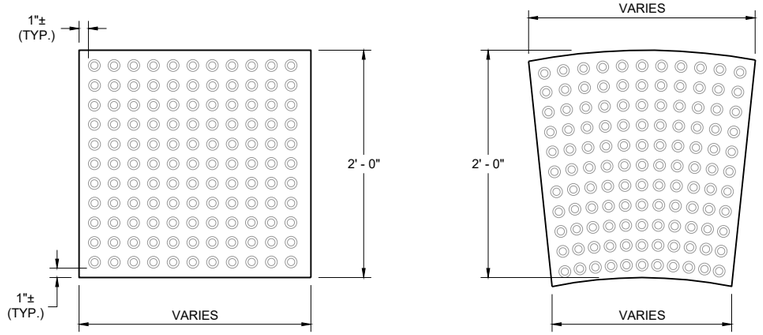
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE.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

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

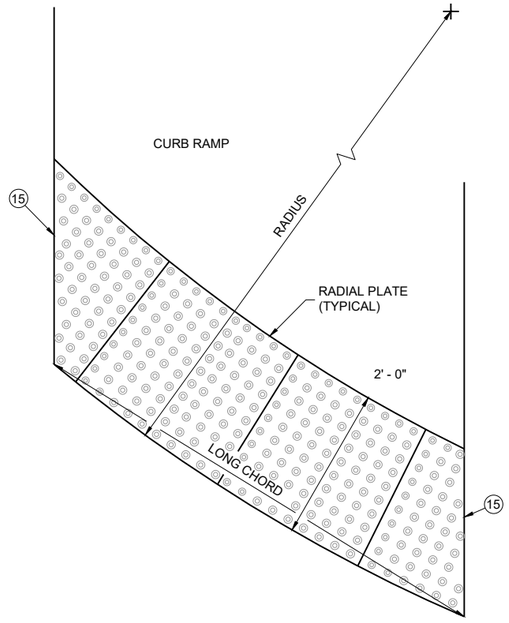
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



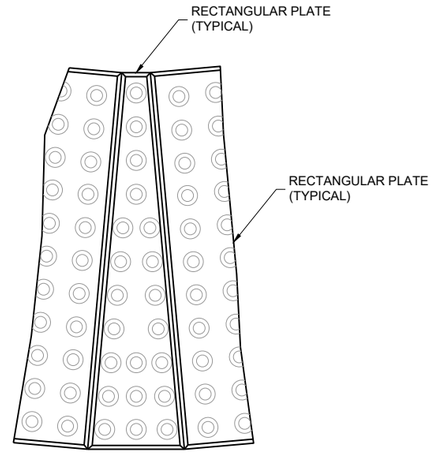
RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

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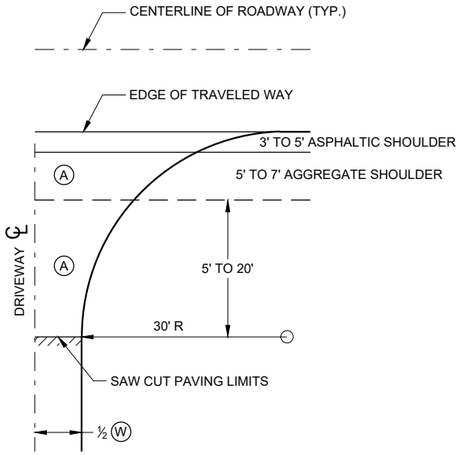
SDD 08D05-22g

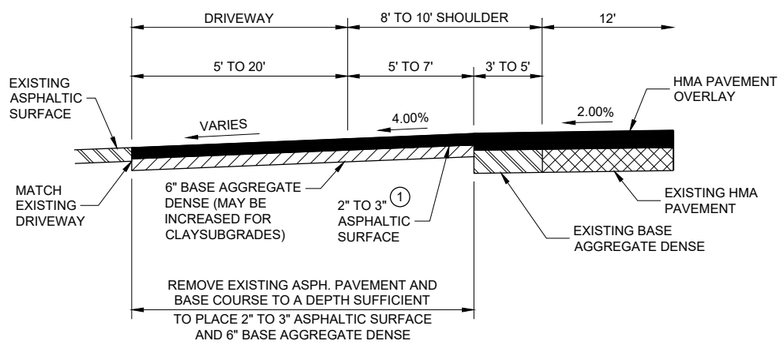
GENERAL NOTES

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



PLAN VIEW

HALF SECTION



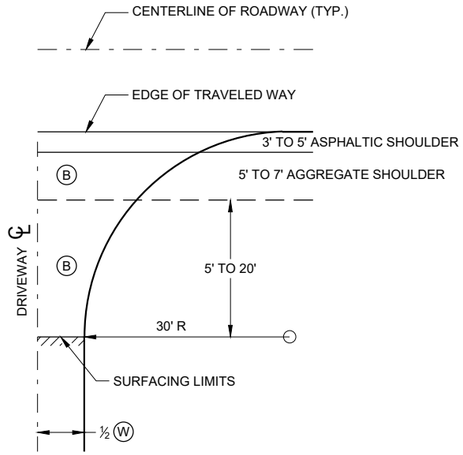
PROFILE VIEW

RURAL ENTRANCE
WITH ASPHALTIC SURFACE
RESURFACING PROJECTS

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

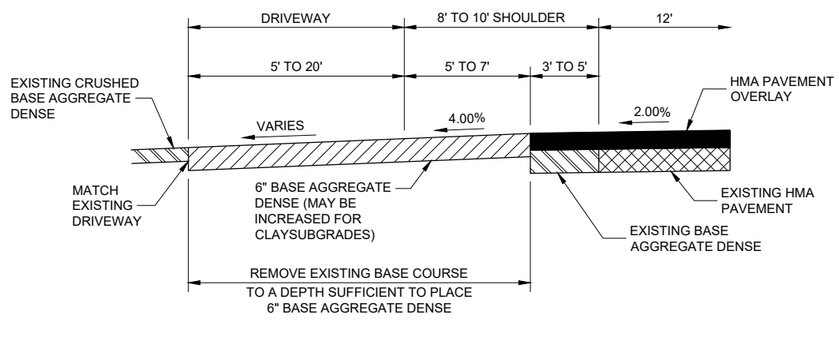
(B) : PAID FOR AS BASE AGGREGATE DENSE 1 ¼" (TON)

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



PLAN VIEW

HALF SECTION



PROFILE VIEW

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

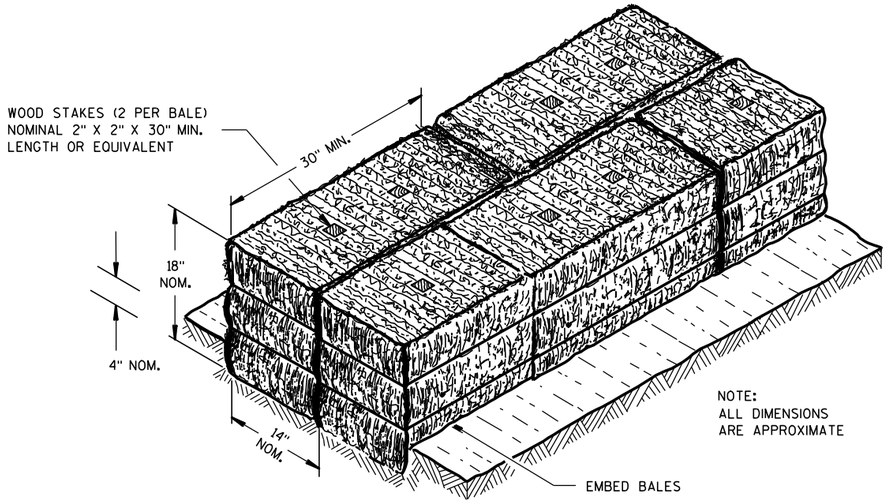
DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

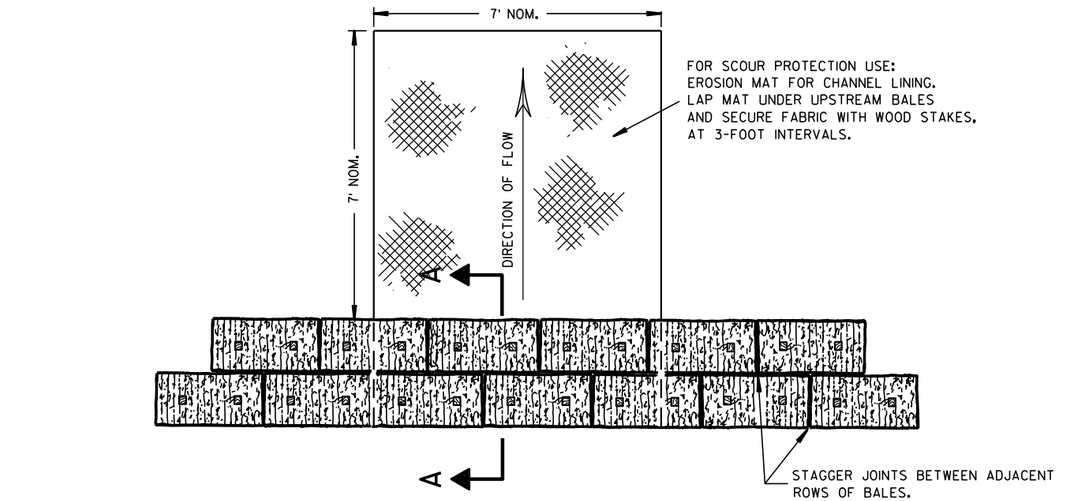
APPROVED
December 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

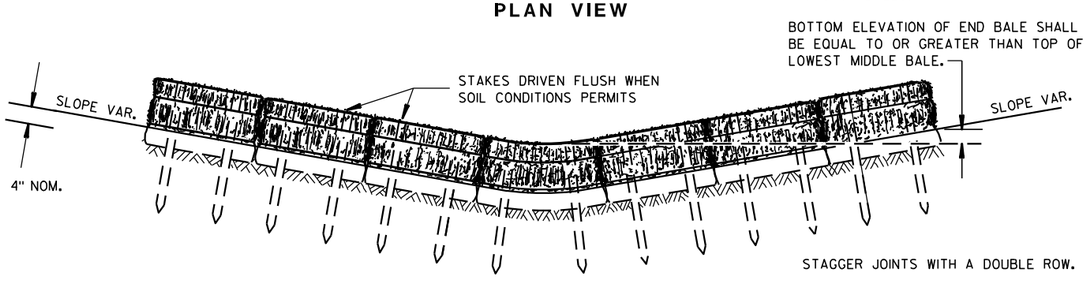
SDD 08D22 - 01



SECTION A-A



PLAN VIEW



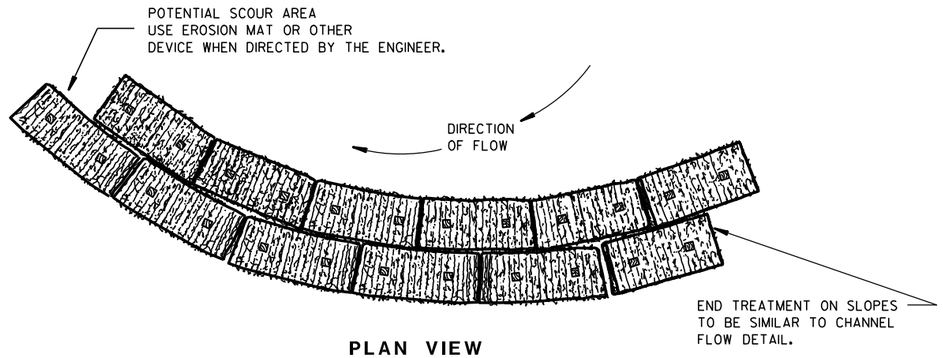
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

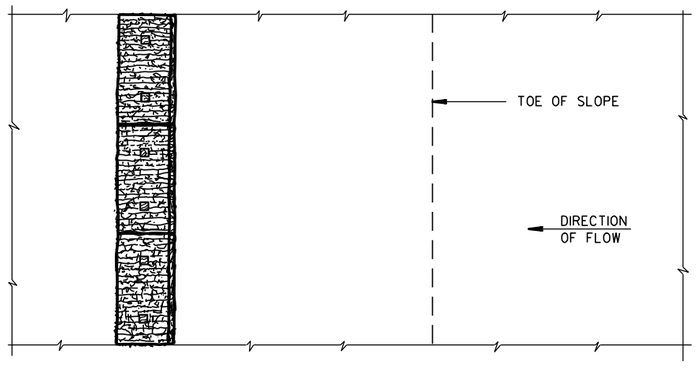
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

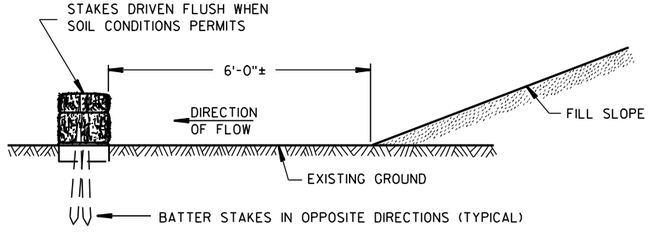


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

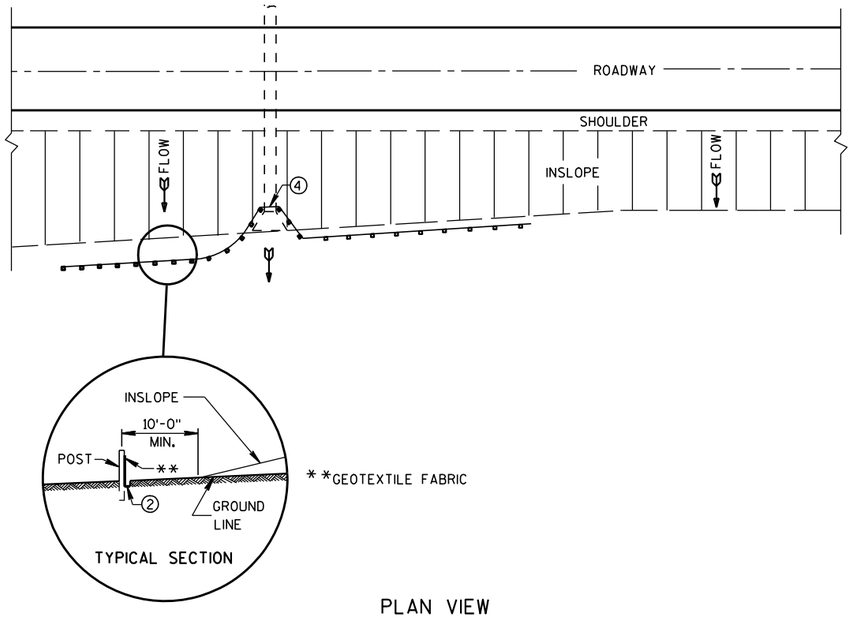
FHWA

6

S.D.D. 8 E 8-3

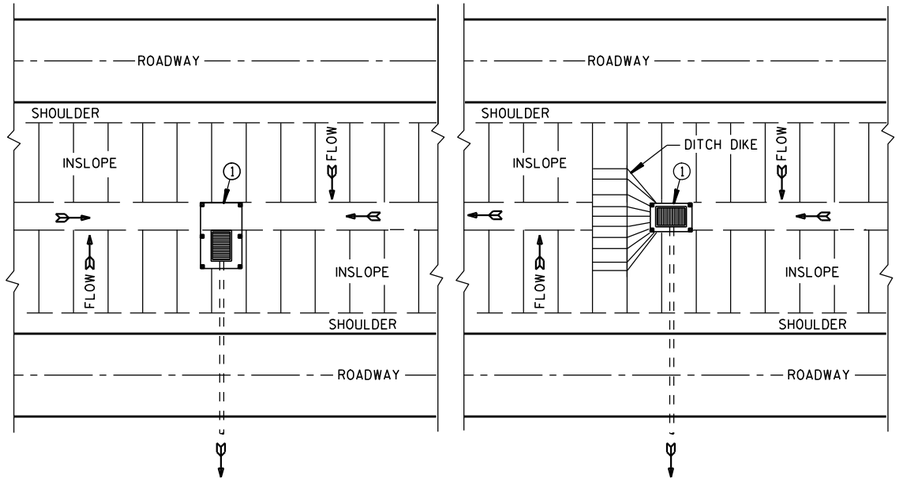
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



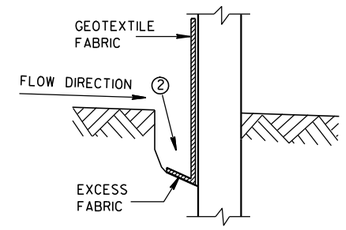
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

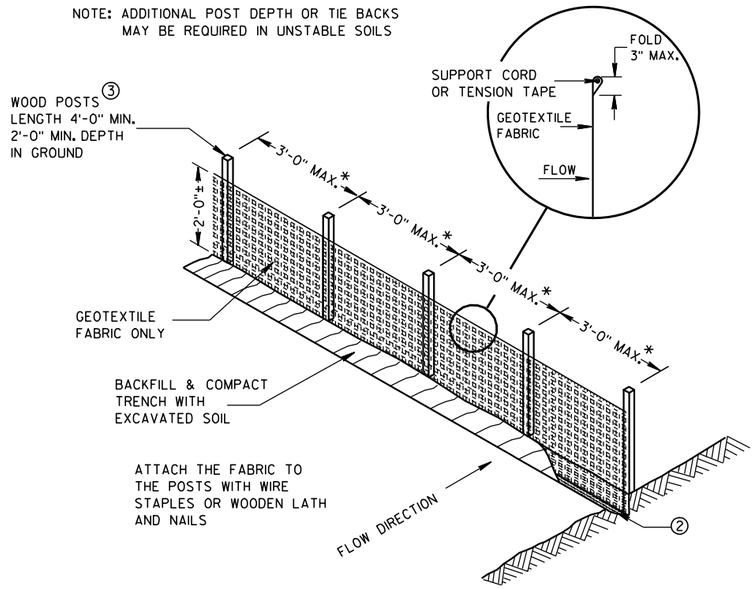
GENERAL NOTES

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

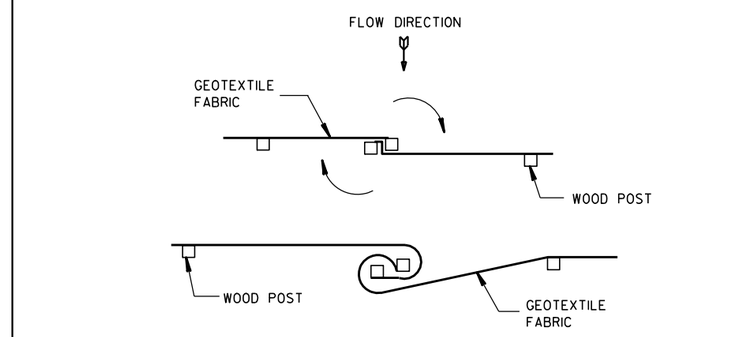
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL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



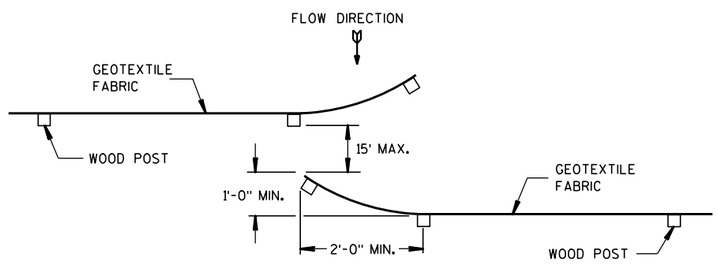
TRENCH DETAIL



SILT FENCE

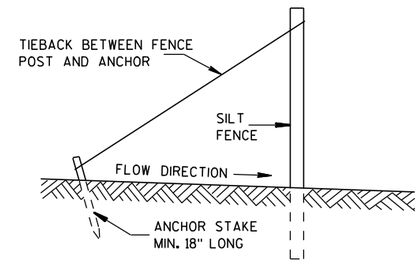


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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S.D.D. 8 E 9-6

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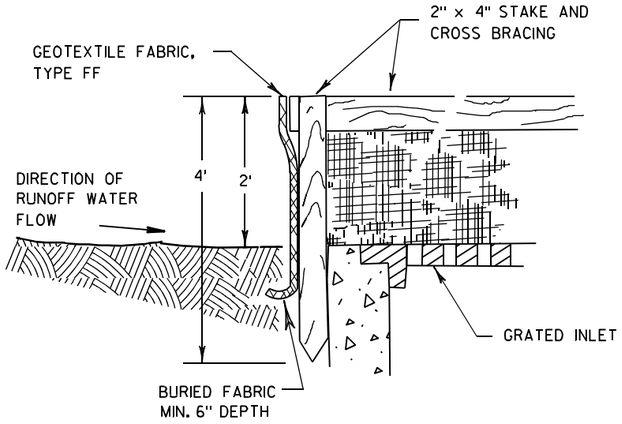
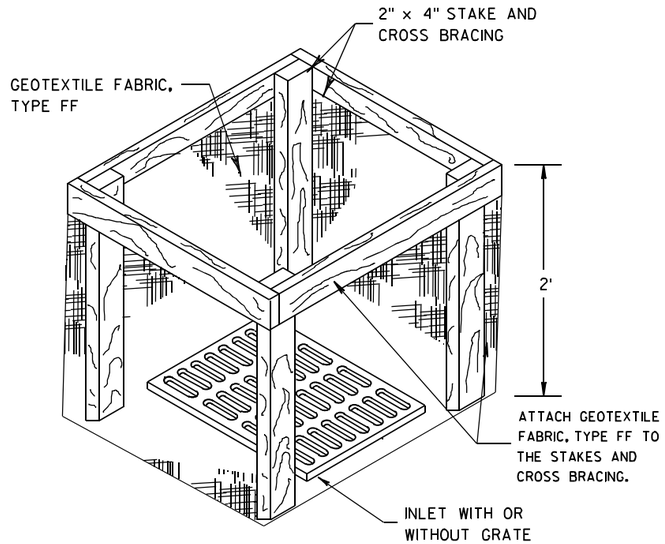
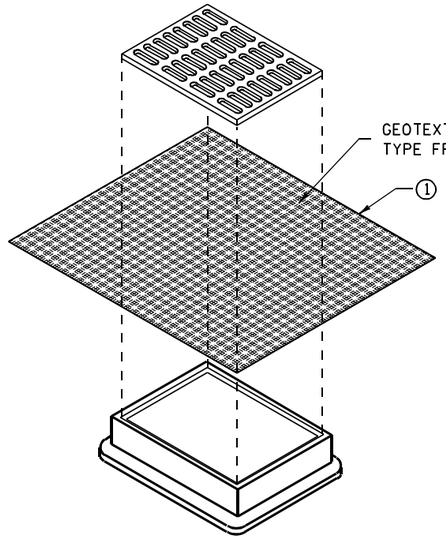
S.D.D. 8 E 9-6



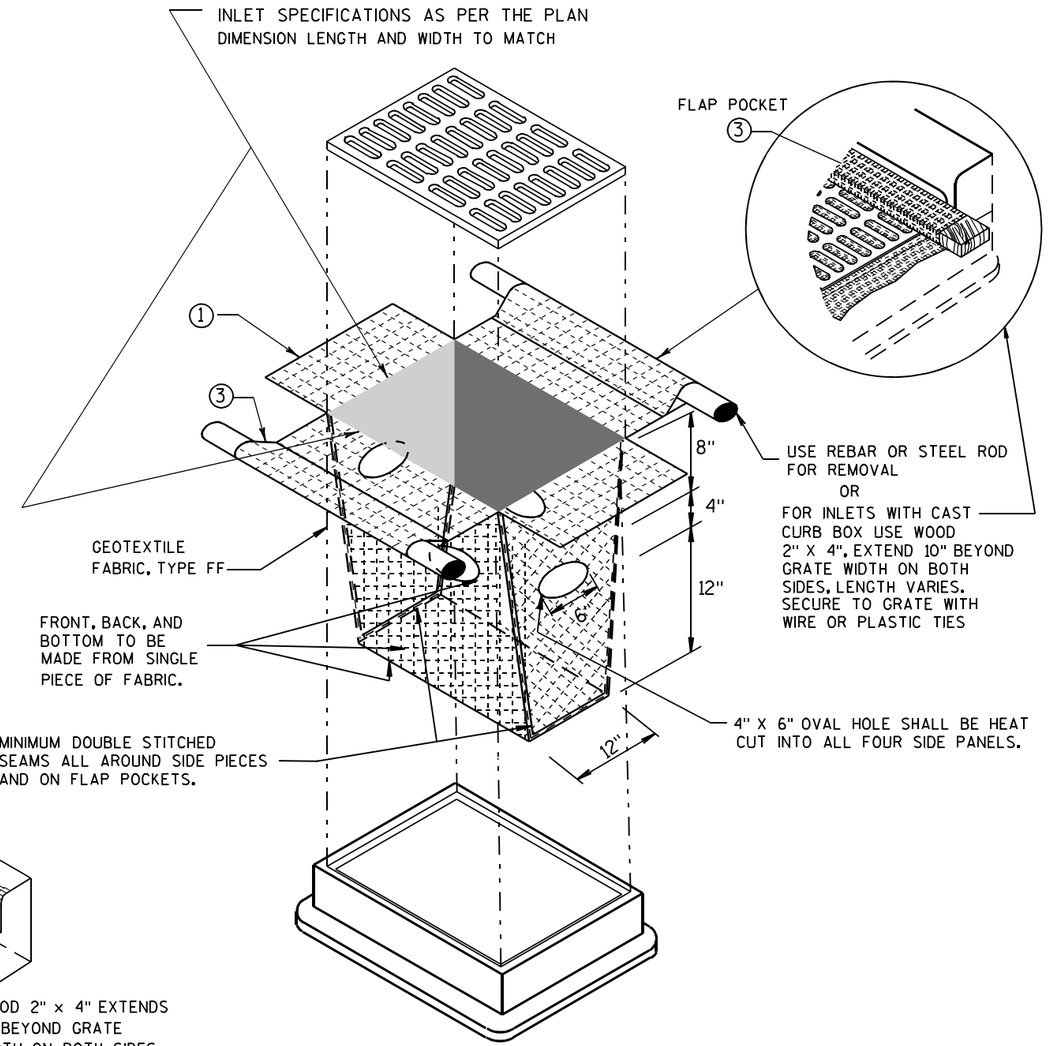


INLET PROTECTION, TYPE A



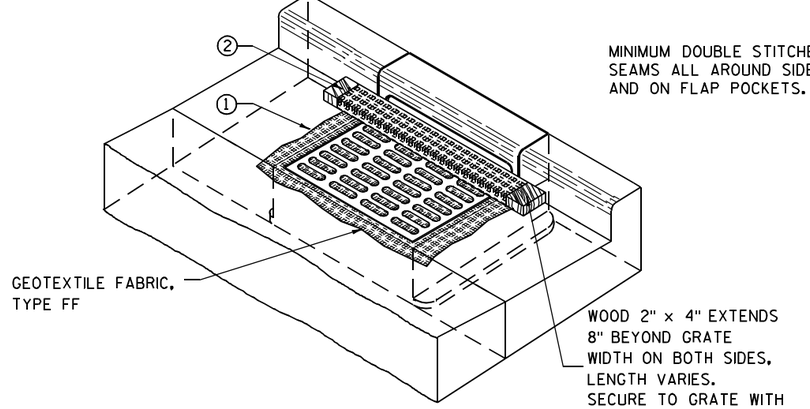
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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.

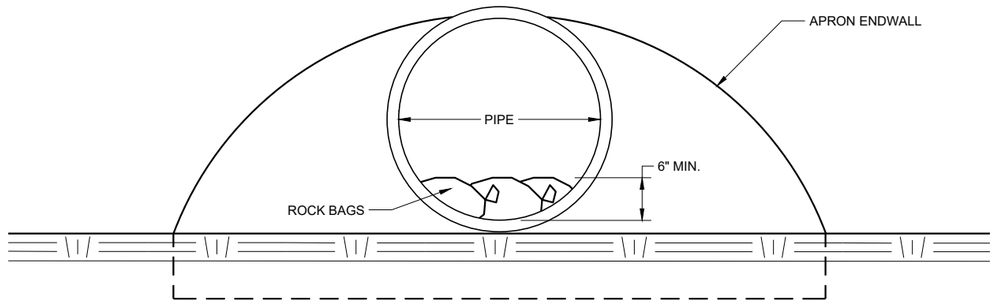
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

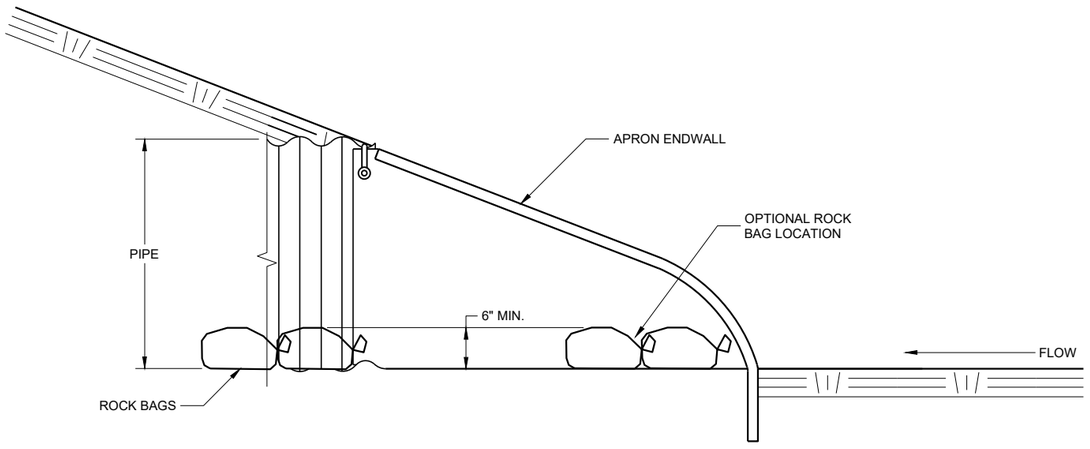
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
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

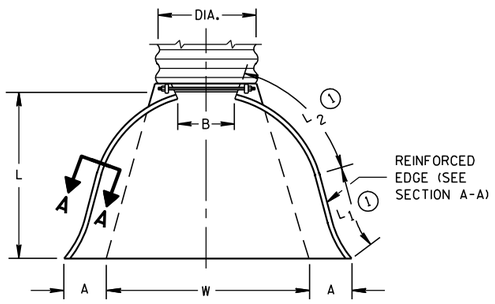
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 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

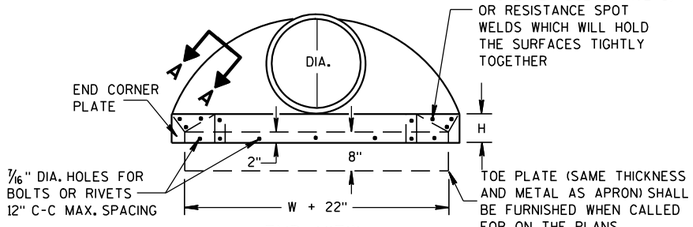
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

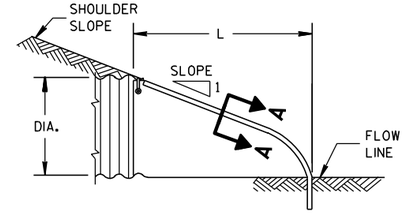
* MINIMUM
** MAXIMUM



PLAN VIEW

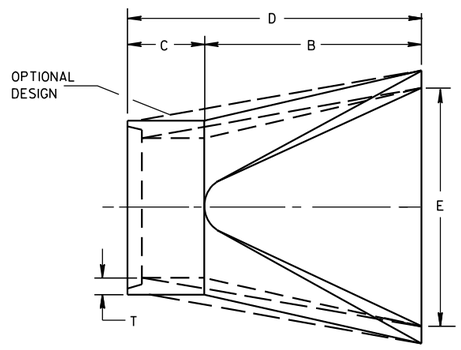


END VIEW

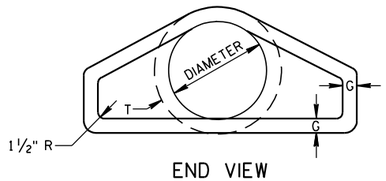


SIDE ELEVATION

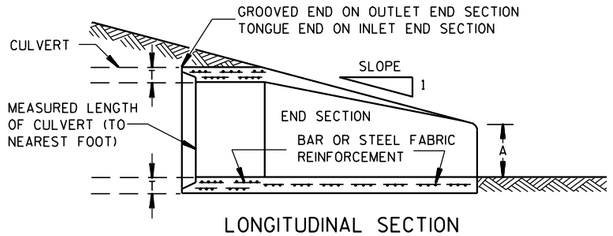
METAL ENDWALLS



PLAN

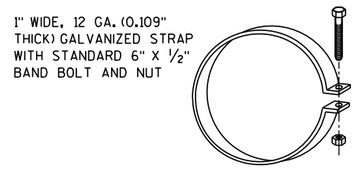


END VIEW



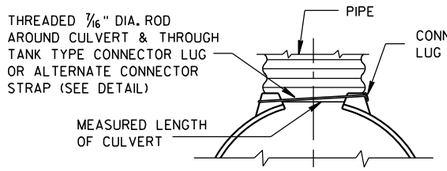
LONGITUDINAL SECTION

CONCRETE ENDWALLS

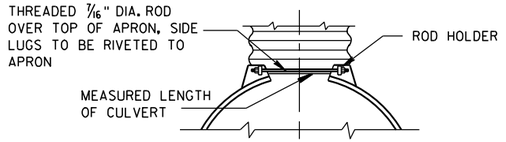


ALTERNATE FOR TYPE 1 CONNECTION

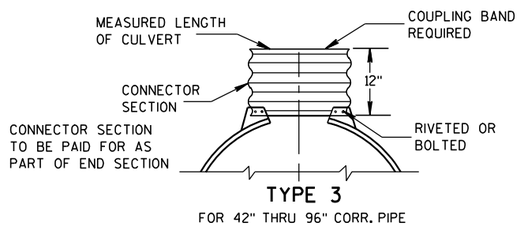
END SECTION CONNECTOR STRAP



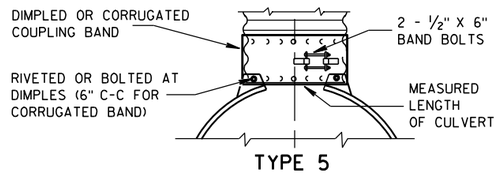
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

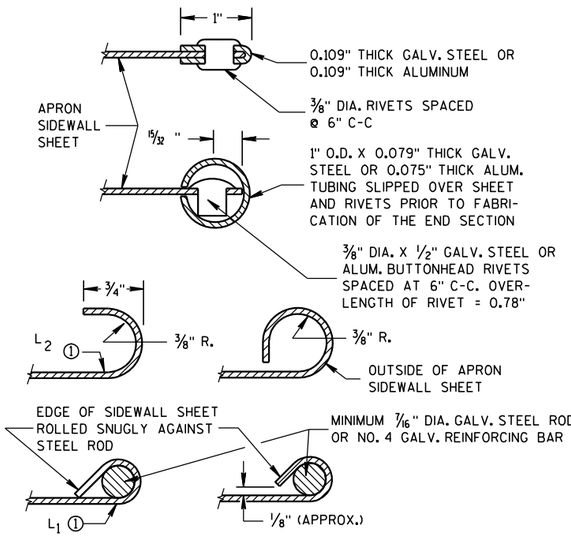
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

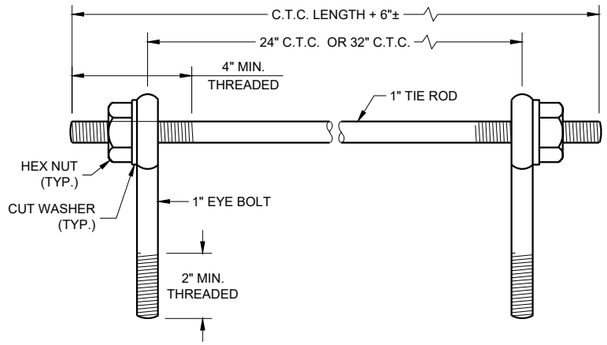
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

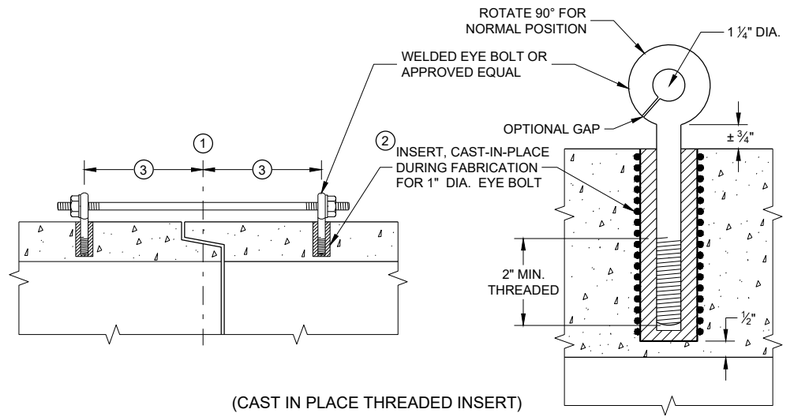
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

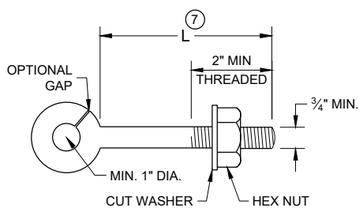
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

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

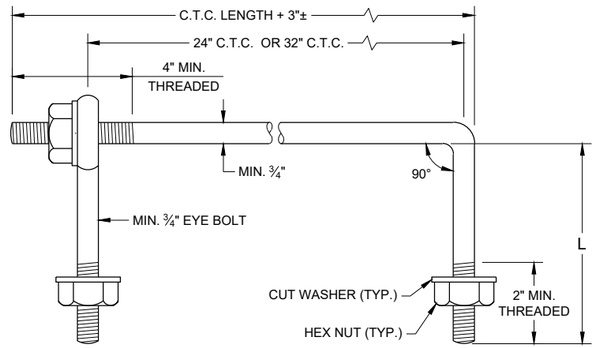
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

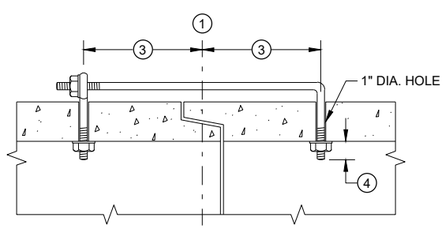


EYE BOLT (7)

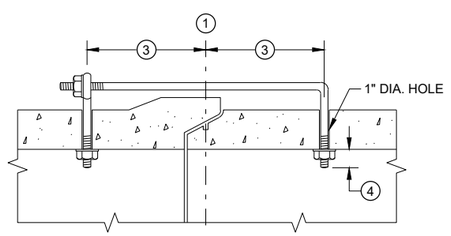
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

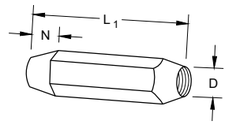
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



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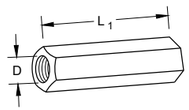
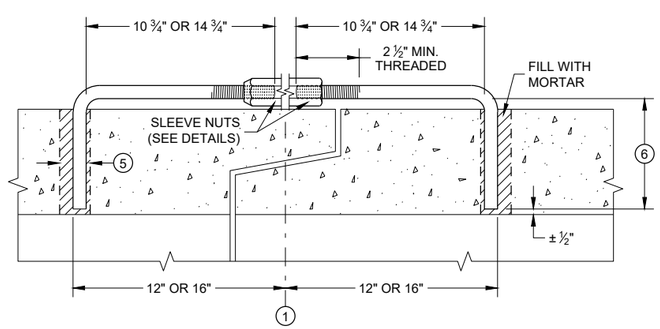


PLAIN

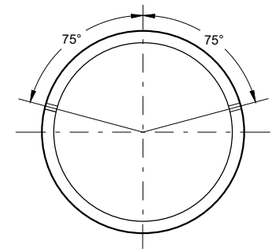
RIGHT AND LEFT THREADS

SLEEVE NUTS



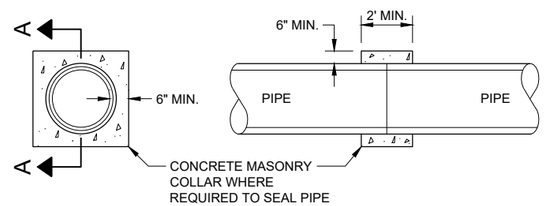
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

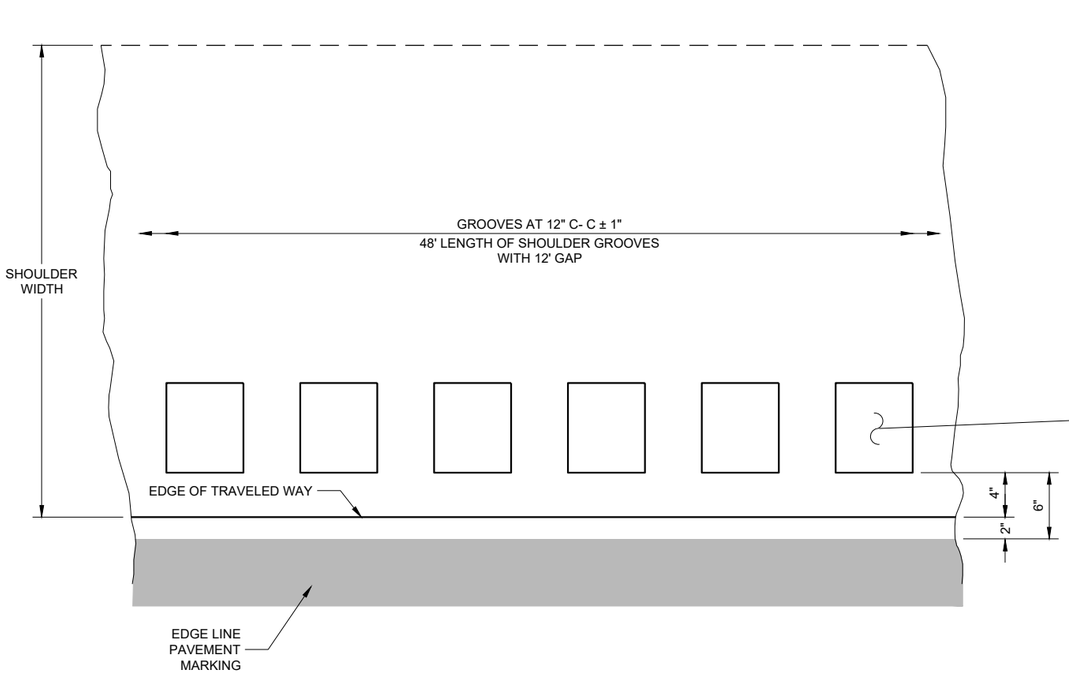
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

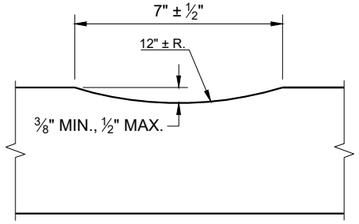
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 08F04 - 08

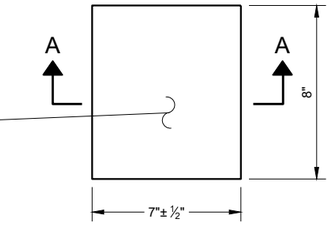
SDD 08F04 - 08



PLAN DETAIL VIEW
SHOULDER WITH GROOVES



SECTION A - A

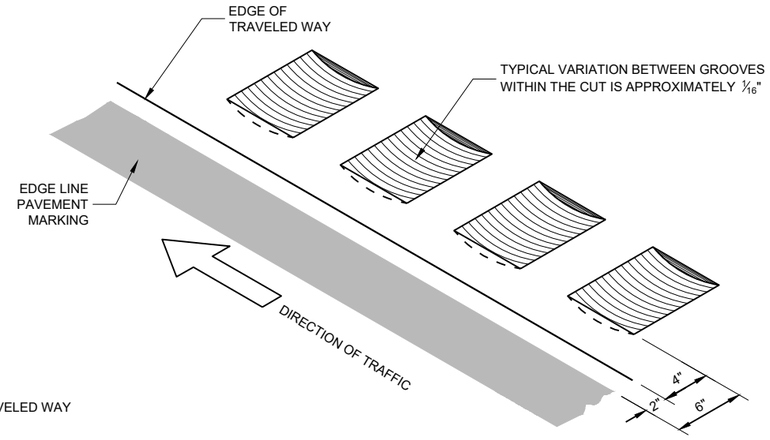


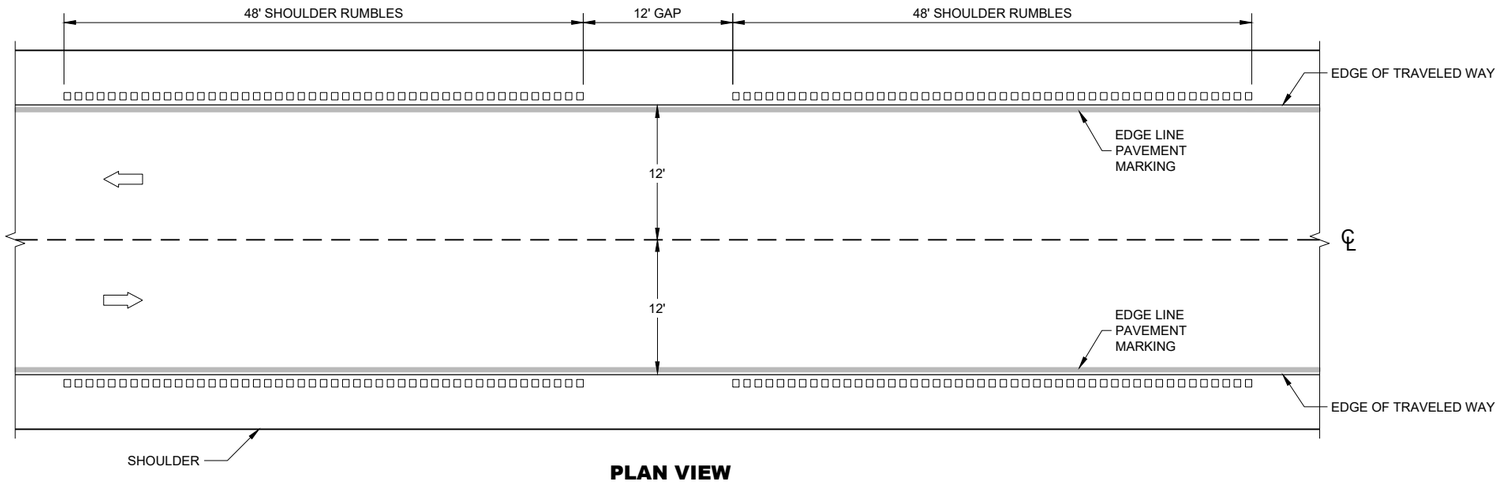
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

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





PLAN VIEW

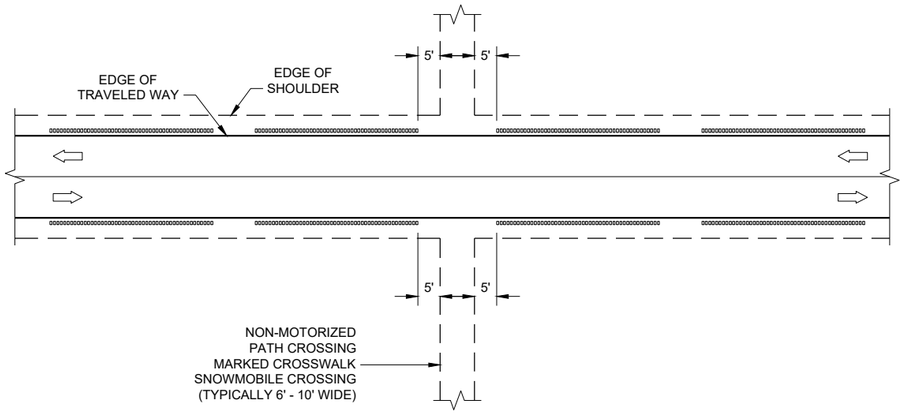
SHOULDER RUMBLE STRIPS - ASPHALT

SHOULDER RUMBLE STRIPS ASPHALT

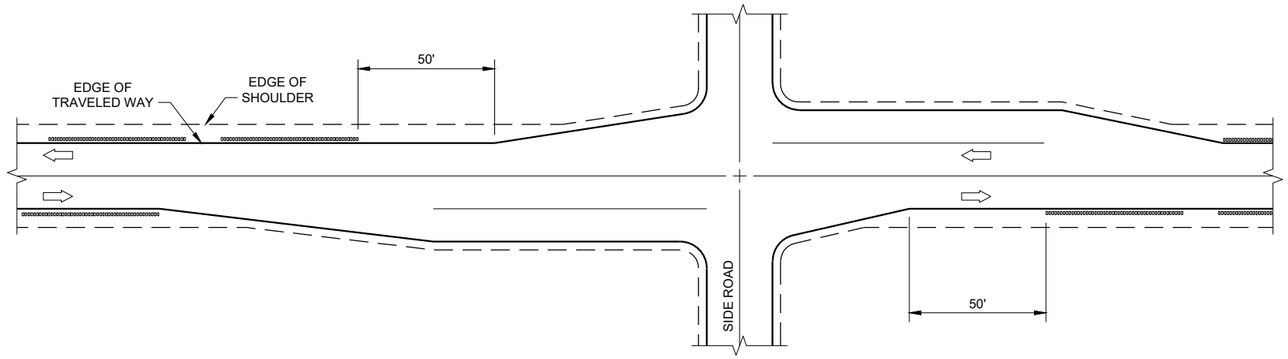
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

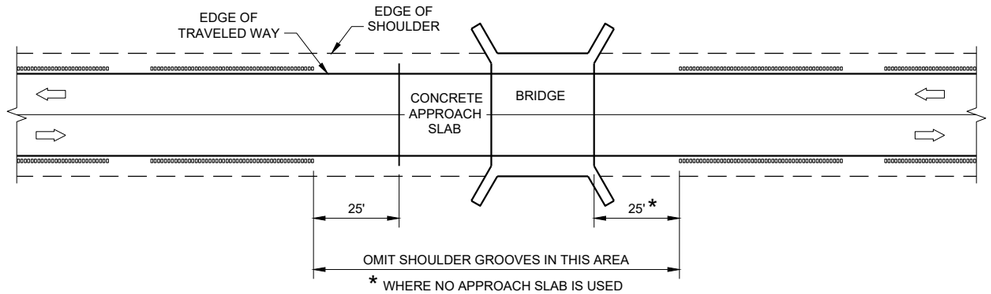
SDD 13A10 - 03a



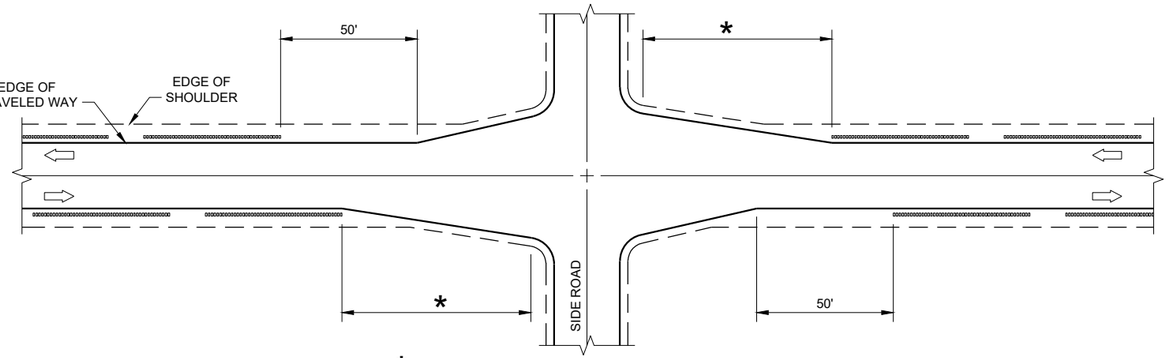
GROOVES AT MISCELLANEOUS CROSSINGS



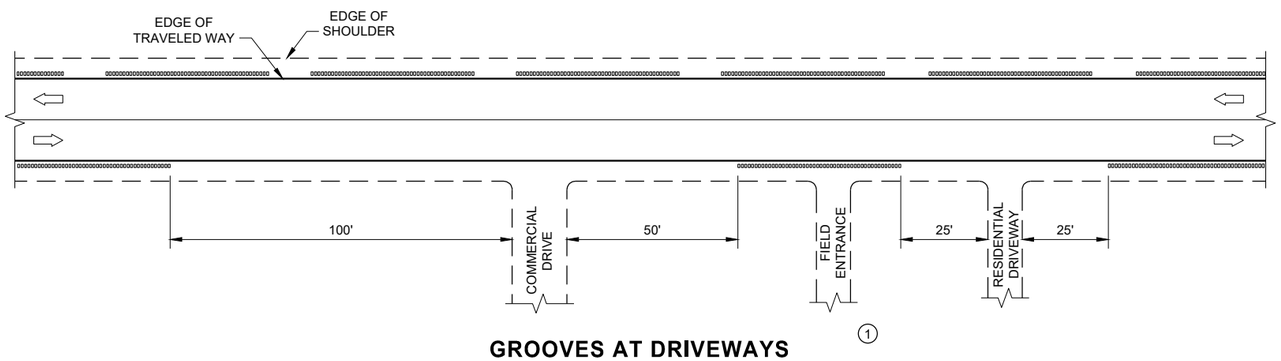
GROOVES AT RIGHT TURN LANE



GROOVES AT BRIDGES



GROOVES AT INTERSECTIONS WITH APPROACH TAPER



GROOVES AT DRIVEWAYS ①

GENERAL NOTES

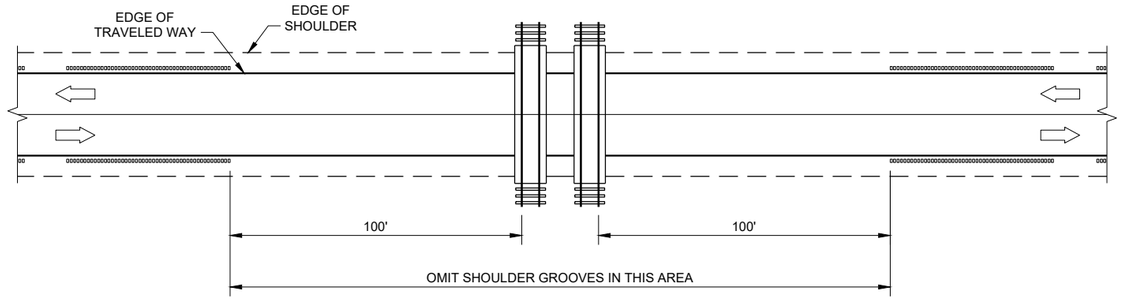
① SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

SHOULDER AND EDGE LINE RUMBLE STRIPS CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS

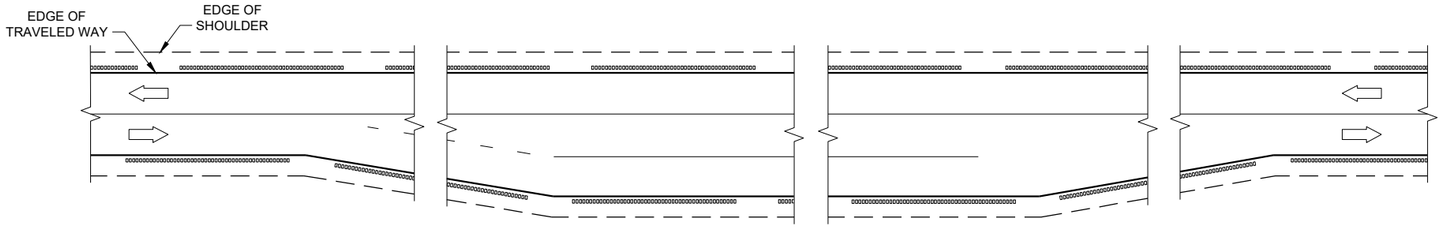
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

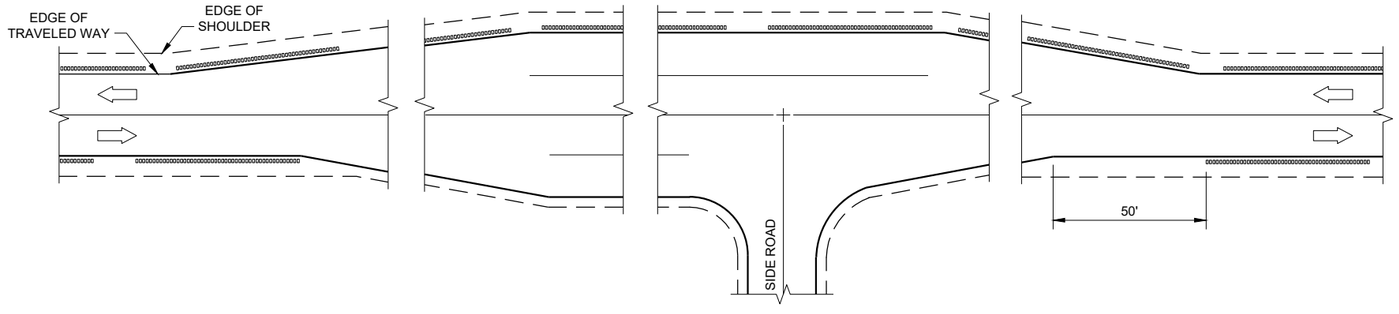
SDD 13A10 - 03g



GROOVES AT RAILROADS



GROOVES AT PASSING AND CLIMBING LANES



GROOVES AT BYPASS LANES

6

SDD 13A10 - 03h

SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE

/S/ John Jenkins
ROADWAY STANDARDS DEVE ENGINEER

FHWA

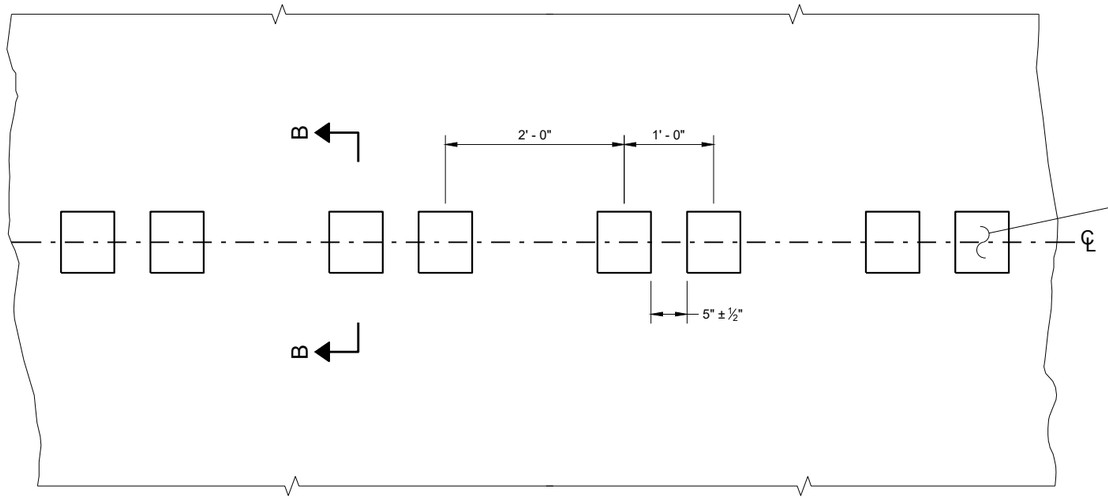
6

SDD 13A10 - 03h

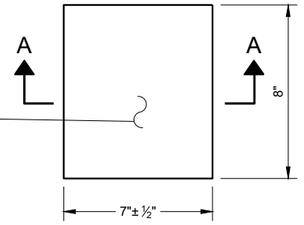
GENERAL NOTES

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

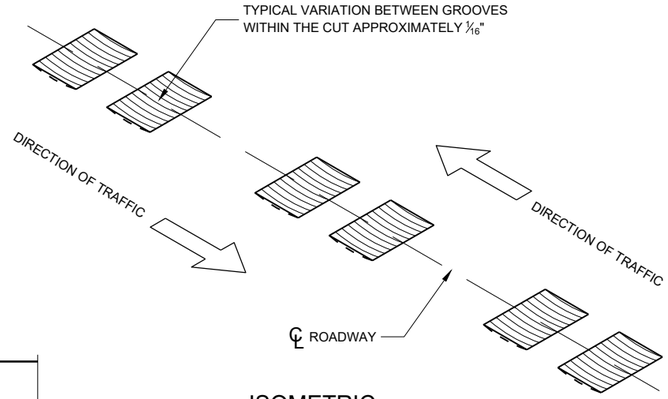
CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



PLAN DETAIL VIEW



PLAN VIEW
(SINGLE GROOVE)



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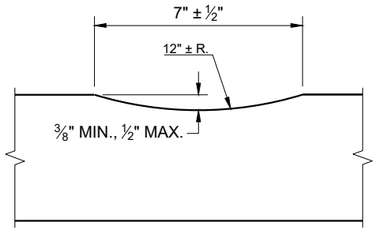
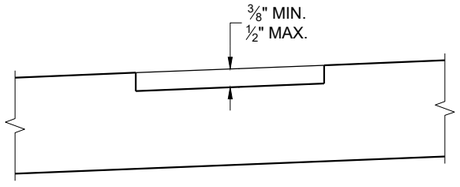
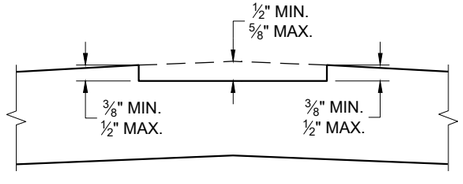


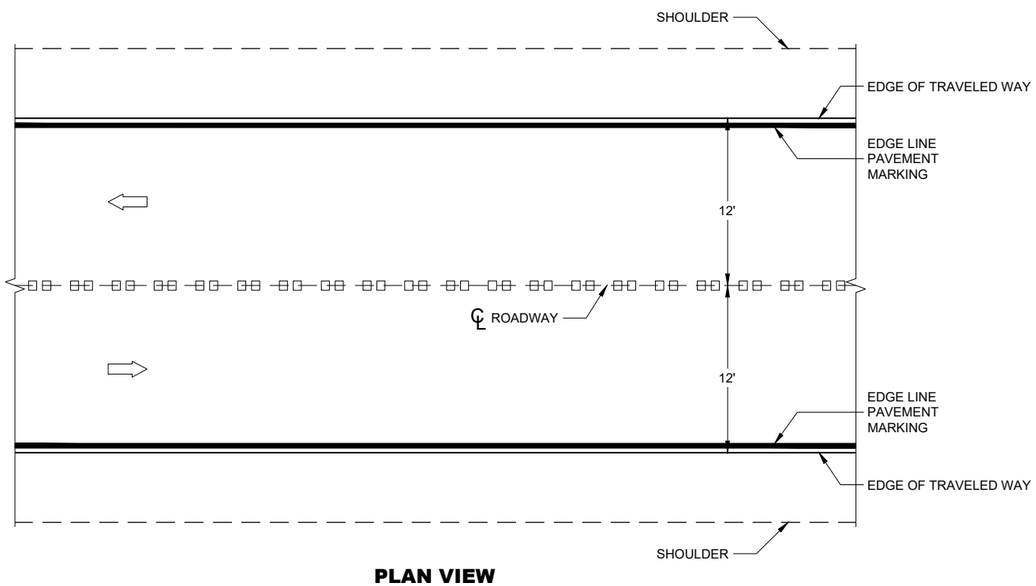
SECTION A - A



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



PLAN VIEW

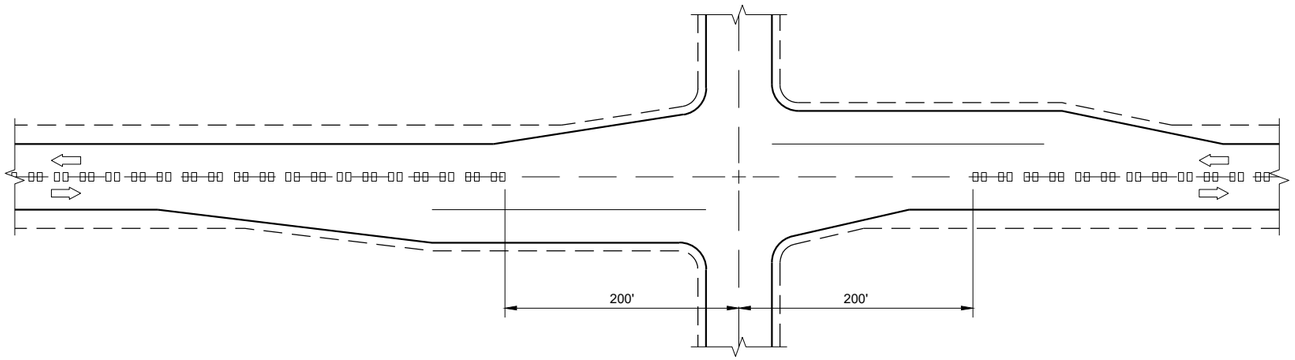
CENTERLINE RUMBLE STRIPS - ASPHALT

CENTERLINE RUMBLE STRIPS - ASPHALT

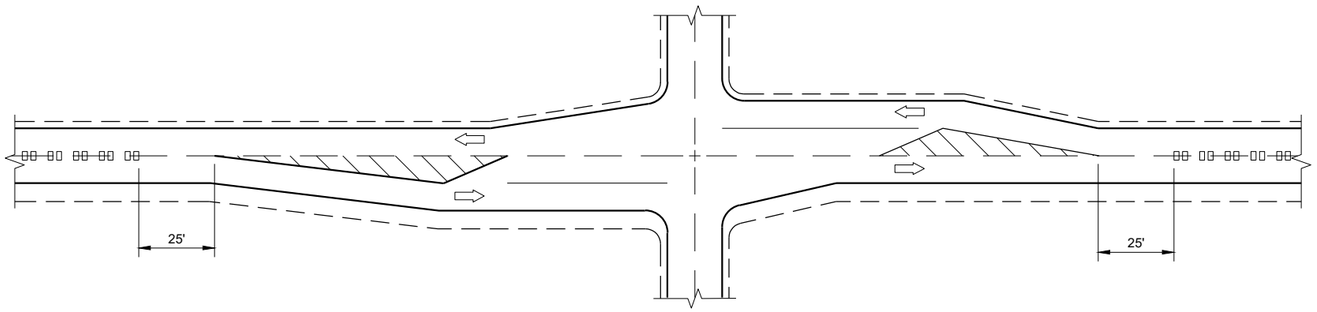
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

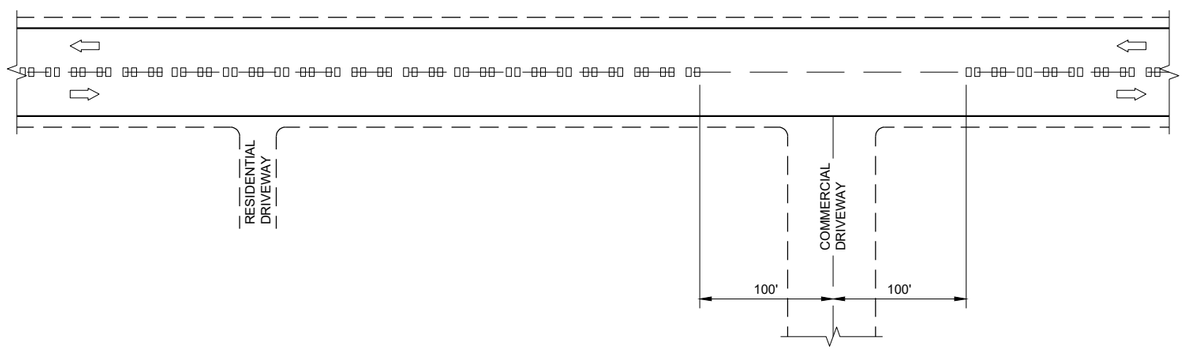
SDD 13A11 - 04a



CENTERLINE GROOVES AT INTERSECTIONS



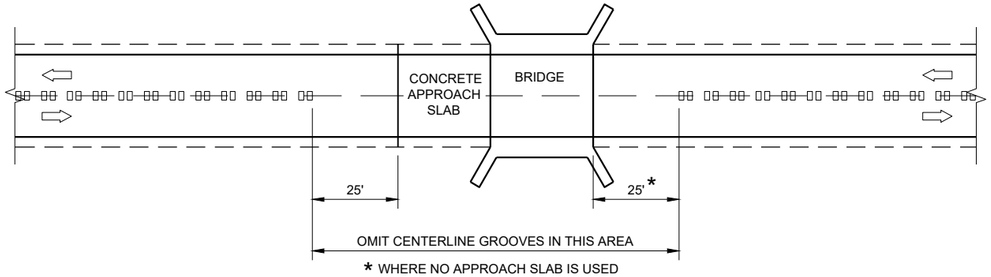
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



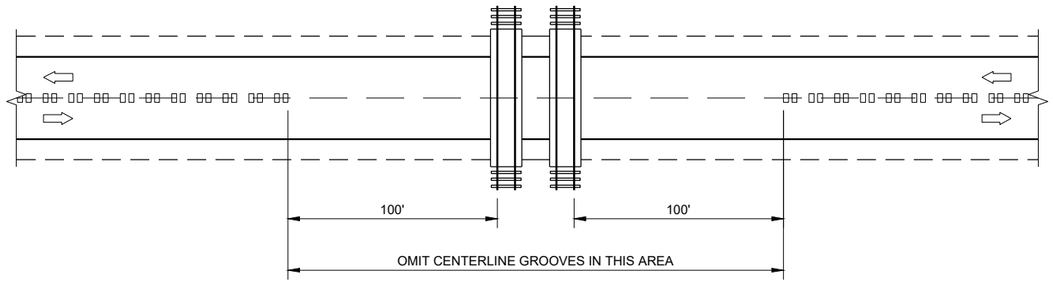
CENTERLINE GROOVES AT DRIVEWAYS (1)

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ John Jenkins — ROADWAY STANDARDS DEVE ENGINEER

FHWA

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SDD 13A11 - 04d

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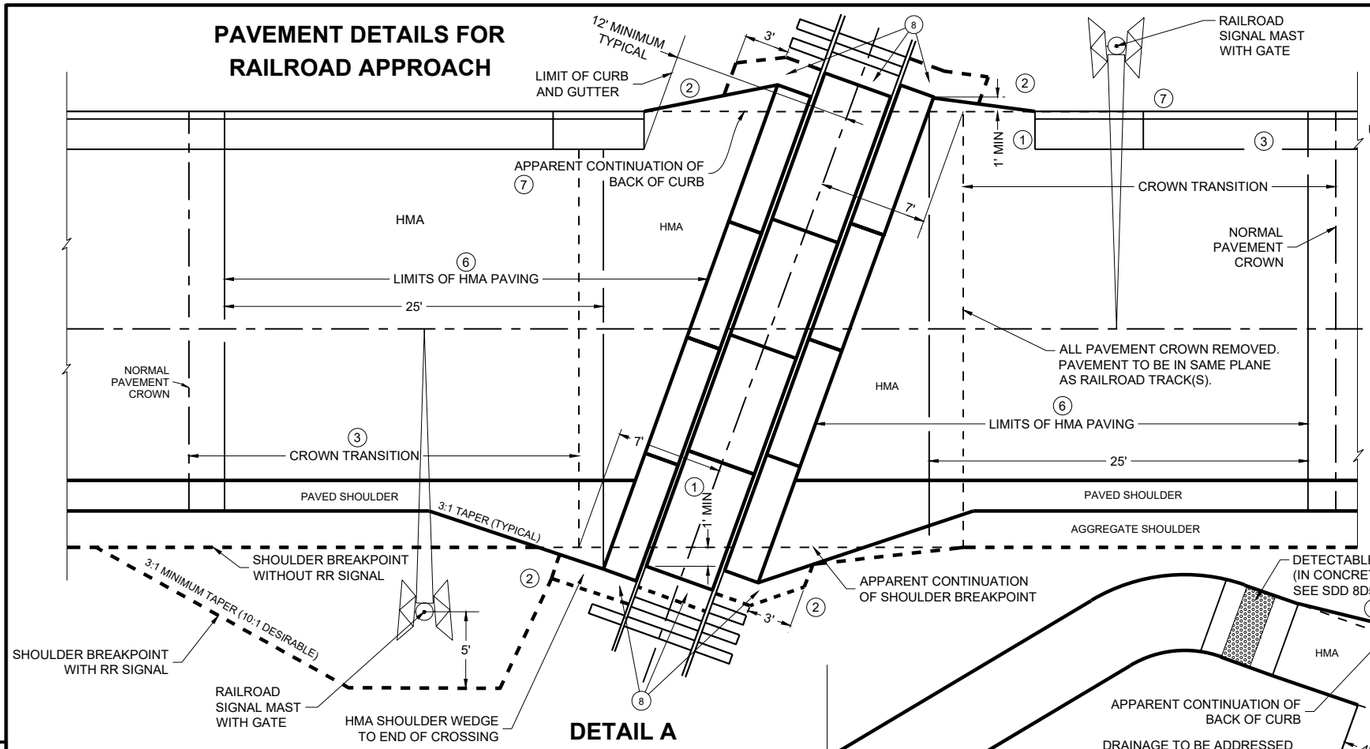
SDD 13A11 - 04d

PAVEMENT DETAILS FOR RAILROAD APPROACH



DETAIL A
RAILROAD APPROACH

GENERAL NOTES CONTINUED

(1) 1' MINIMUM CROSSING SURFACE COVERAGE PAST THE APPARENT CONTINUATION OF SHOULDER BREAKPOINT, BACK OF CURB, OR OUTSIDE EDGE OF SIDEWALK/PATH. INDIVIDUAL RAILROADS MAY HAVE DIFFERENT MINIMUM STANDARDS.

(2) HMA FLARE FROM OUTSIDE EDGE OF SIDEWALK/PATH, BACK OF CURB, OR AGGREGATE SHOULDER BREAKPOINT TO THE END OF CROSSING SURFACE MATERIAL.

(3) CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.

(4) NEAR EDGE OF PATH TO THE CENTER OF SIGNAL OR GATE MAST SHOULD BE A MINIMUM OF 5'-0". FOR SIDEWALK, THE NEAR EDGE SHOULD BE A MINIMUM OF 3'-0" TO THE CENTER OF SIGNAL OR GATE. NEAR EDGE OF SIDEWALK TO A NON-GATED MAST OR CANTILEVER SHOULD BE A MINIMUM OF 2'-6". SEE PLAN FOR RAILROAD SIGNAL AND GATE LOCATION IF THEY ARE NOT ALREADY INSTALLED.

(5) TERRACE WIDTH VARIES. SEE PLAN FOR RAILROAD SIGNAL AND GATE LOCATIONS. PER PLAN OR PROJECT ENGINEER THE TERRACE AND SIDEWALK/PATH GRADES SHALL BE TRANSITIONED TO MATCH THE GRADE OF THE TRACK. FIELD FIT TO AVOID PONDING.

(6) 25' MINIMUM HMA PAVING MEASURED PARALLEL TO THE ROAD OR 10' MINIMUM MEASURED PERPENDICULAR TO THE TRACK FROM THE EDGE OF THE CROSSING SURFACE, WHICHEVER IS GREATER.

(7) REFERENCE SDD 8-D-01 END SECTION CURB AND GUTTER. MEDIAN END NEAR THE TRACK SHOULD BE PARALLEL TO THE TRACK. 6'-0" TAPER FOR A MEDIAN SHOULD BE REDUCED TO GET FULL HEIGHT CURB WHERE THE GATE COMES DOWN. DESIGN OPTION TO POUR MEDIAN TAPER IN ONE PIECE. BUILD PER PLAN UNLESS OTHERWISE APPROVED BY THE RAILROAD ENGINEER AND THE PROJECT ENGINEER.

(8) IF METAL END PLATES ARE NOT INSTALLED BY THE RAILROAD THEN HMA PAVEMENT WEDGE SHALL BE PLACED AT THE END OF THE LAST PANEL TAPERED TO BACK EDGE OF NEXT TIE AND THOROUGHLY COMPACTED. SEE DETAIL G.

GENERAL NOTES

PLANS AND SECTIONS ARE TYPICAL. DIMENSIONS VARY PER PROJECT.

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

CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS DIRECTED OTHERWISE. IF THE FINAL GRADES DON'T MATCH TO THE PLAN GRADES THEN GRADE ADJUSTMENTS WILL BE NECESSARY. CONFIRM NEW GRADES WITH PROJECT ENGINEER.

HMA PAVEMENT APPROACHES, HMA PAVEMENT CROSSING SURFACES, AND HMA FLANGEWAY/FIELD FILLERS TO BE REPLACED BY ROADWAY CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE PLANS, SPECIAL PROVISIONS, RAILROAD ENGINEER, OR PROJECT ENGINEER.

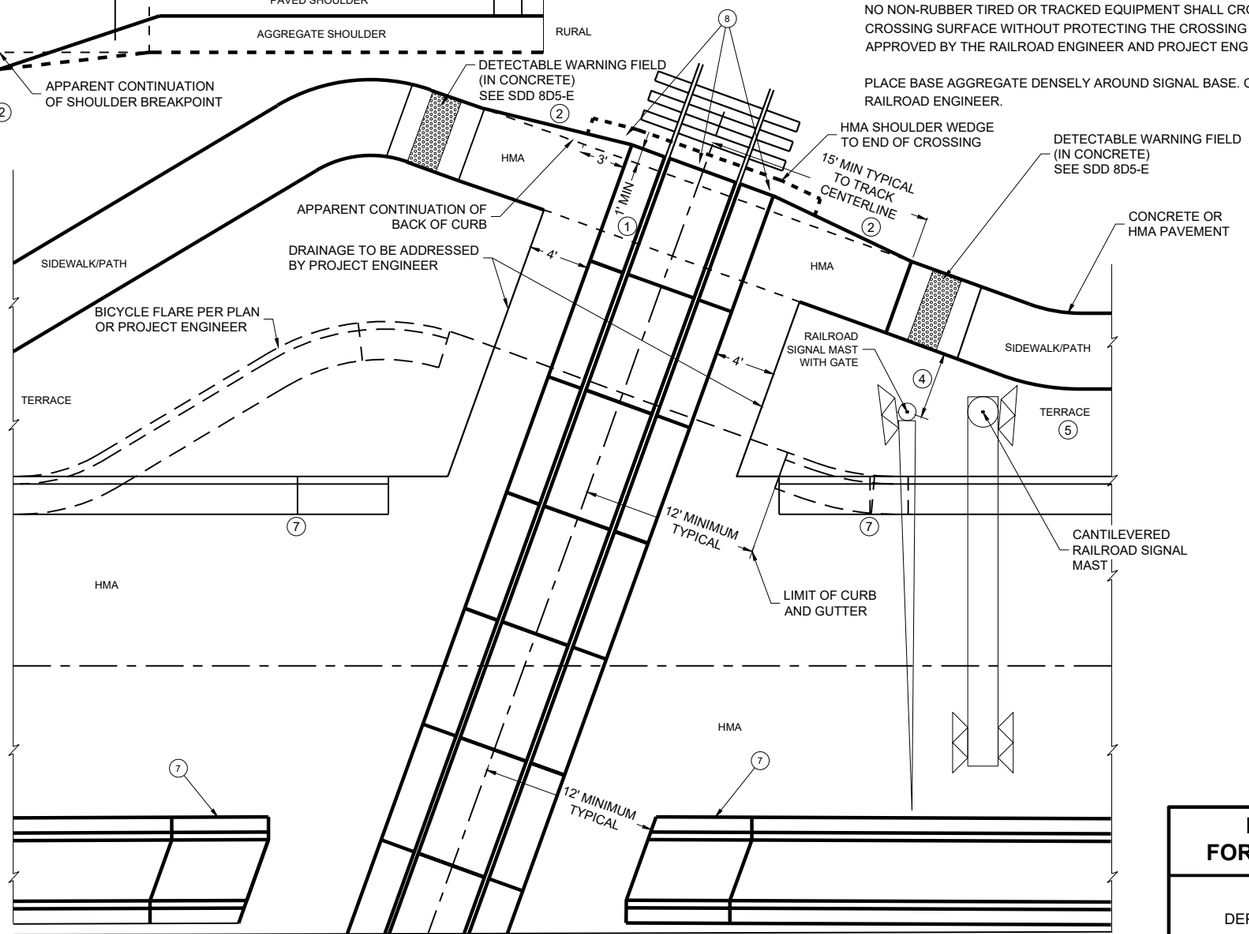
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

WHEN THERE IS A SIDEWALK OR SHARED-USE PATH, ADD DETECTABLE WARNING FIELDS PER CURRENT STANDARD DETAIL DRAWING 8D5-E.

THE CROSSING SHALL NOT BE OPENED TO ANY TYPE OF TRAFFIC UNTIL IT IS FULLY PAVED AND COOLED SUFFICIENTLY UNLESS OTHERWISE APPROVED BY THE RAILROAD ENGINEER AND THE PROJECT ENGINEER.

NO NON-RUBBER TIRED OR TRACKED EQUIPMENT SHALL CROSS OR SIT ON THE CROSSING SURFACE WITHOUT PROTECTING THE CROSSING SURFACE WITH A METHOD APPROVED BY THE RAILROAD ENGINEER AND PROJECT ENGINEER.

PLACE BASE AGGREGATE Ddensely AROUND SIGNAL BASE. COORDINATE WITH THE RAILROAD ENGINEER.



DETAIL B
MEDIAN AND SIDEWALK/SHARED-USE PATH APPROACH

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Kristen Sommers
STATE RAILROAD ENGINEERING AND SAFETY SUPERVISOR

FHWA

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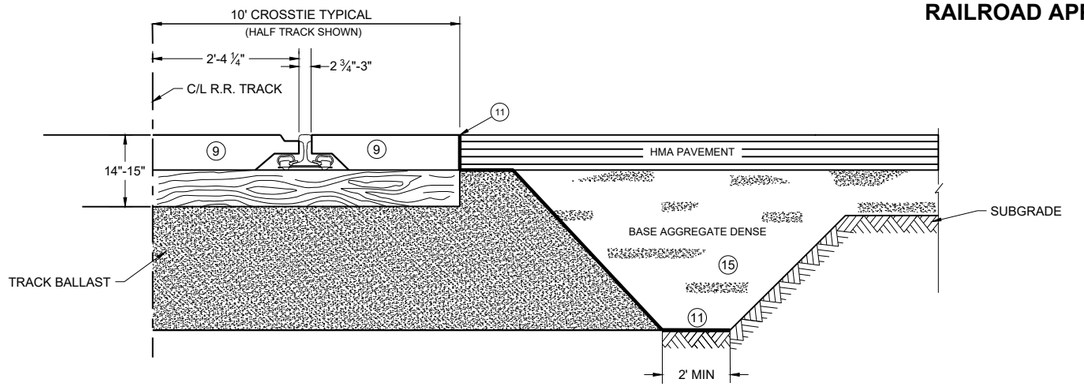
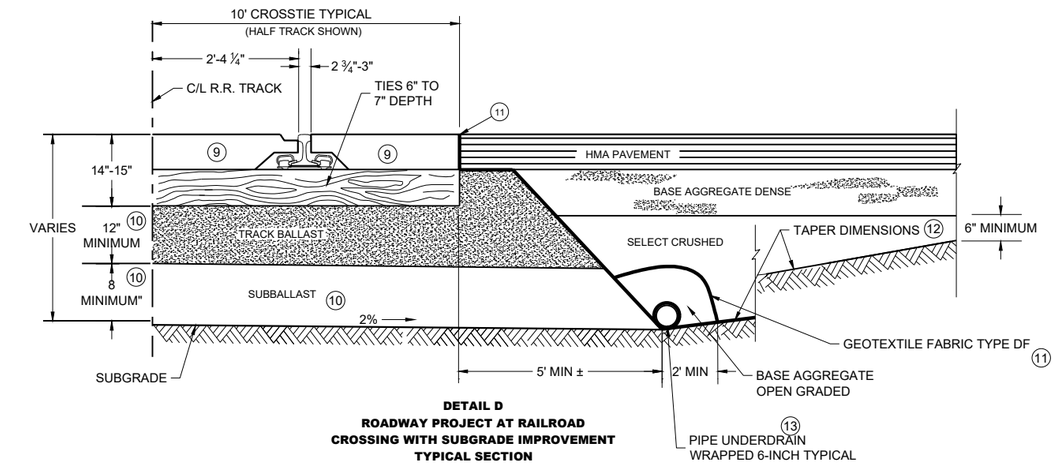
SDD 13B01-11a

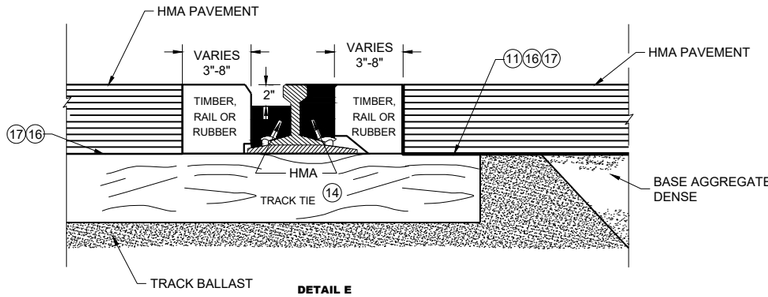
TYPICAL SECTIONS FOR RAILROAD APPROACH



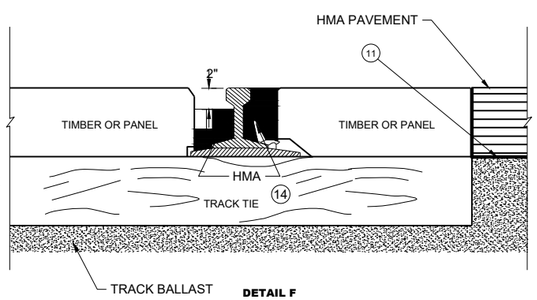
DETAIL C
ROADWAY PROJECT AT RAILROAD
CROSSING WITHOUT SUBGRADE IMPROVEMENT
TYPICAL SECTION



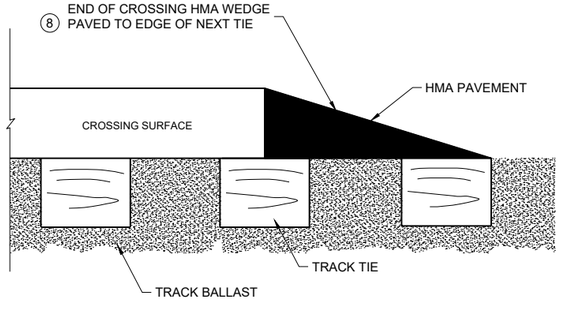
DETAIL D
ROADWAY PROJECT AT RAILROAD
CROSSING WITH SUBGRADE IMPROVEMENT
TYPICAL SECTION



DETAIL E
TIMBER, RAIL OR RUBBER SECTION
HMA FLANGEWAY
AND FIELD FILLERS



DETAIL F
PANEL SECTION
HMA FLANGEWAY
AND FIELD FILLERS



DETAIL G
END OF CROSSING HMA WEDGE

GENERAL NOTES

(8) IF METAL END PLATES ARE NOT INSTALLED BY THE RAILROAD THEN HMA PAVEMENT WEDGE SHALL BE PLACED AT THE END OF THE LAST PANEL TAPERED TO BACK EDGE OF NEXT TIE AND THOROUGHLY COMPACTED. SEE DETAIL A AND B.

(9) MATCH THE CROSSING TYPE THAT IS INSTALLED UNLESS OTHERWISE DIRECTED BY PROJECT ENGINEER.

(10) TRACK BALLAST AND SUBBALLAST REQUIRED 12" AND 8" MINIMUM DEPTHS RESPECTIVELY. DIMENSION FROM BOTTOM OF TRACK TIE TO HIGH SIDE OF 2% SLOPE. THE 2% SLOPE IS REQUIRED ON RAILROAD SUBBALLAST. SEE PLAN FOR CROWN, MATERIAL THICKNESS, AND SLOPE DIRECTION. SUBBALLAST CAN BE HMA, 1 1/2" BASE AGGREGATE DENSE, SELECT CRUSHED, OR A COMBINATION OF THEM.

(11) GEOTEXTILE FABRIC TYPE SAS PLACED IN ORDER TO PROVIDE STABILIZATION AND SEPARATION ON TOP OF THE TRACK BALLAST WHERE IT IS UNDER HMA PAVEMENT, BASE AGGREGATE DENSE OR SELECT CRUSHED MATERIAL AND THE FIELD SIDE BALLAST CRIBS. GEOTEXTILE FABRIC TYPE DF PLACED IN ORDER TO PROVIDE STABILIZATION AND SEPARATION UNDER AND AROUND THE PIPE UNDERDRAIN. PLACING GEOTEXTILE FABRIC OR GEOGRID UNDER THE SUBBALLAST IS OPTIONAL.

(12) TAPER DIMENSIONS PROVIDED BY PLAN OR BY PROJECT ENGINEER.

(13) IF SHOWN ON THE PLAN, TYPICAL 6-INCH PERFORATED PVC SCHEDULE 80 PIPE UNDERDRAIN TO BE PLACED ALONG THE TOE OF SLOPE, GRADED TO DRAIN AND DAYLIGHT OR INTO STORM SEWER. BASE AGGREGATE OPEN GRADED OVER PIPE UNDERDRAIN AND THEN WRAPPED IN GEOTEXTILE FABRIC TYPE DF SCHEDULE A IN ORDER TO STABILIZE AND SEPARATE FROM SELECT CRUSHED.

(14) HMA FLANGEWAY AND FIELD FILLERS ARE TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR, WHEN NOT PROVIDED BY OTHERS AS PART OF THE CROSSING SURFACE MATERIAL. IF THE CROSSING SURFACE IS NOT BEING REPLACED, THEN REMOVE AND REPLACE THE HMA FLANGEWAY AND FIELD FILLERS AS DIRECTED BY THE RAILROAD OR PROJECT ENGINEER.

(15) GRADE TO MATCH EXISTING OR PROPOSED TYPICAL SECTION OF ROADWAY. SEE PLAN OR PROJECT ENGINEER FOR MORE DETAIL. IF NOT NOTED OTHERWISE IN THE PLAN, BACKFILL ANY REMOVED BASE AND SUBGRADE WITH BASE AGGREGATE DENSE.

(16) IF THE CROSSING IS NOT BEING REPLACED, REMOVE AND REPLACE HMA AS DIRECTED BY RAILROAD AND PROJECT ENGINEER. CARE MUST BE TAKEN TO NOT DAMAGE CROSSING PANELS, TIES, RAIL, PLATES AND SPIKES.

(17) PLACE HMA FULL DEPTH. AGGREGATE IS NOT TO BE PLACED BETWEEN THE RAILROAD TIES AND THE HMA PAVEMENT.

TYPICAL SECTIONS FOR RAILWAY APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Kristen Sommers — STATE RAILROAD ENGINEERING AND SAFETY SUPERVISOR
FHWA

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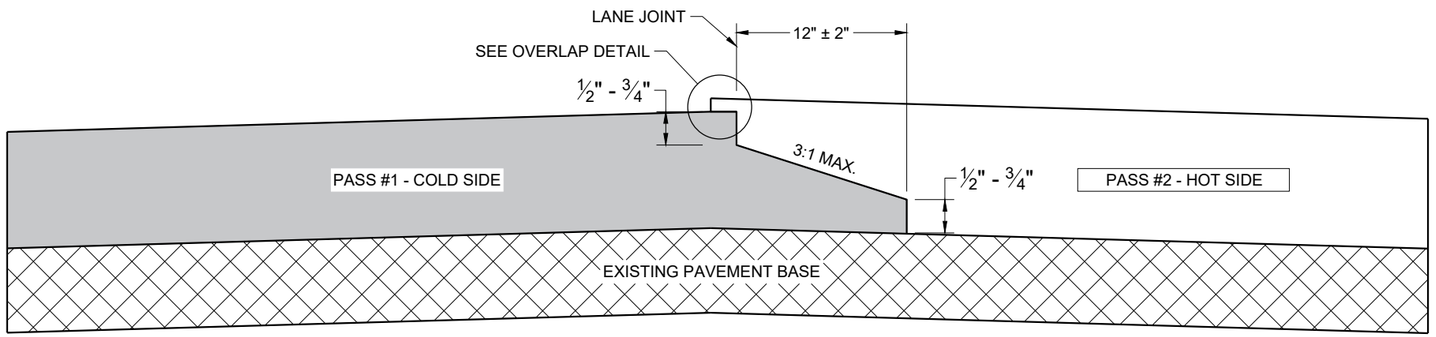
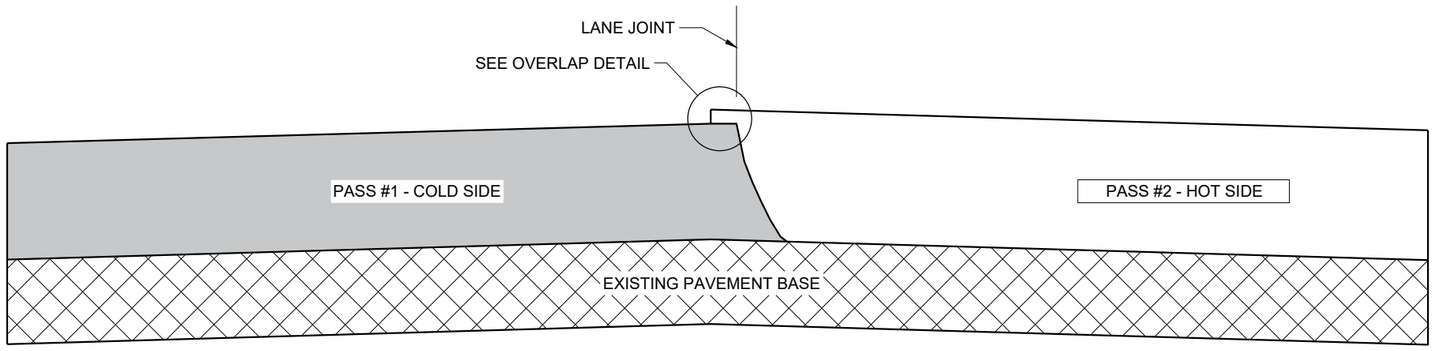
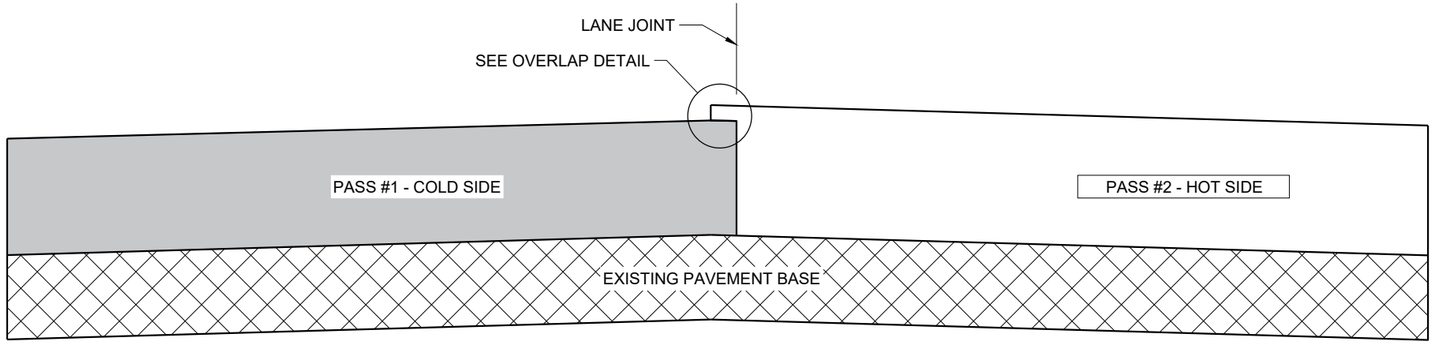
SDD 13B01-11b



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

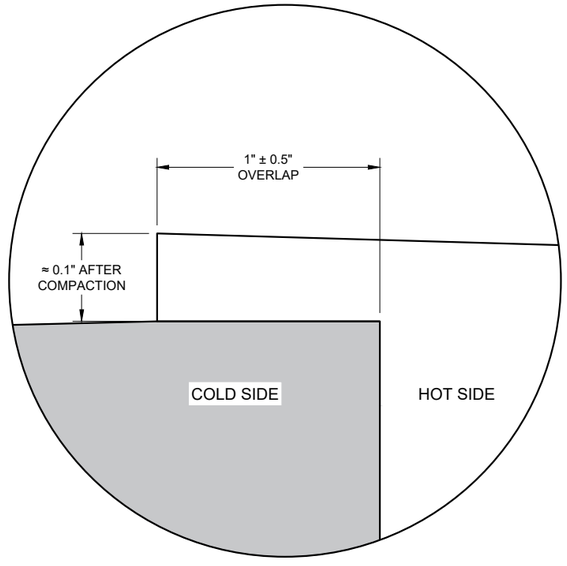
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

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SDD 13C19 - 03

SDD 13C19 - 03

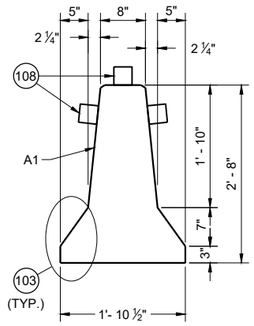
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

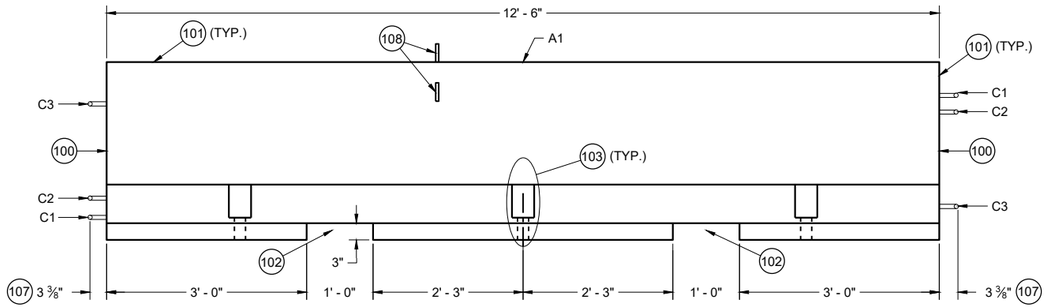
APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



CROSS SECTION



PROFILE VIEW

GENERAL NOTES

PLACE BARRIER ON PAVED SURFACE. BEFORE PLACEMENT OF TEMPORARY BARRIER, REMOVE ALL LOOSE MATERIAL FROM PAVED SURFACE.

LOOP BARS C1, C2 AND C3 ARE NOT FOR PLACEMENT OR MOVEMENT OF BARRIER.

(100) PERMANENTLY FORM INTO ONE END OF BARRIER THE FOLLOWING INFORMATION:
- A. TYPE OF BARRIER: WI-CBTP
- B. MANUFACTURER
- C. DATE OF MANUFACTURE (MONTH AND YEAR)

(101) 1" OPTIONAL CHAMFER

(102) SEE LIFTING SLOT DETAIL

(103) SEE ANCHOR BLOCK DETAIL

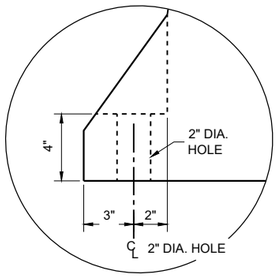
(104) 1 ¾" MIN. CLEAR COVER

(105) 2" MIN. CLEAR COVER

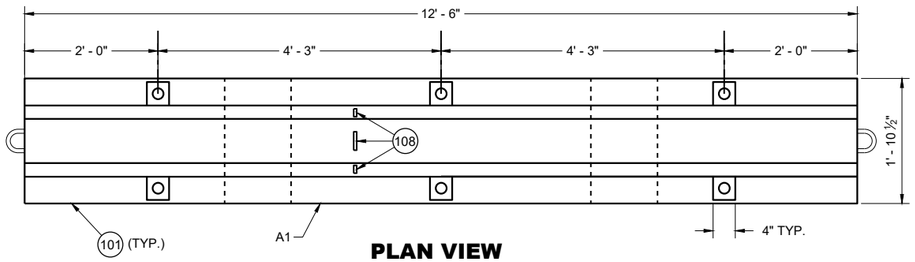
(106) 1" MIN. CLEAR COVER

(107) ± ⅛" MEASURED FROM FACE OF CONCRETE BARRIER TO OUTSIDE OF LOOP BAR (TYP.)

(108) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURERS INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED LEFT OF TRAFFIC AND WHITE WHEN BARRIER IS LOCATED RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART, PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO SIDE MOUNTED DELINEATORS ON BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAT 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

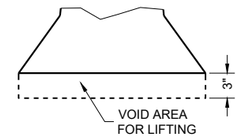


ANCHOR BLOCK DETAIL

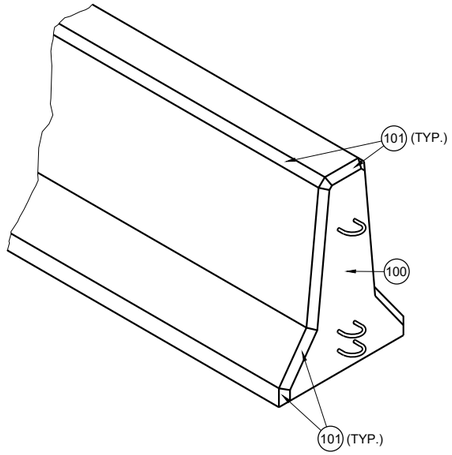


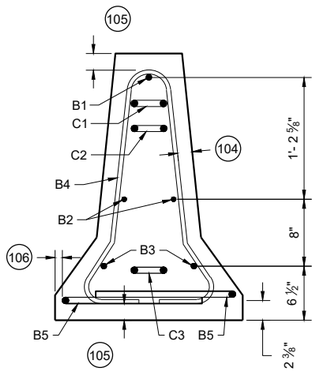
PLAN VIEW

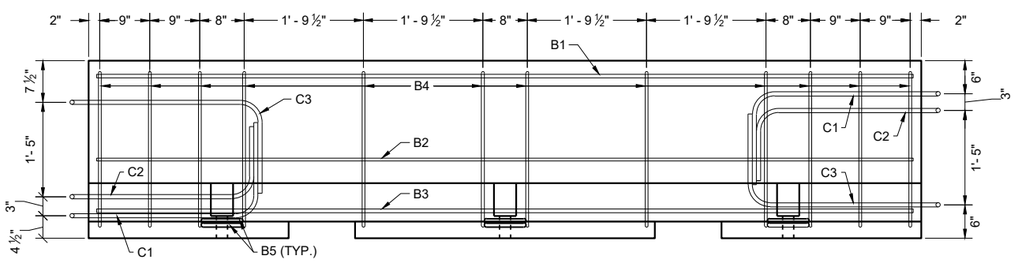
TEMPORARY BARRIER



LIFTING SLOT DETAIL (TYP.)







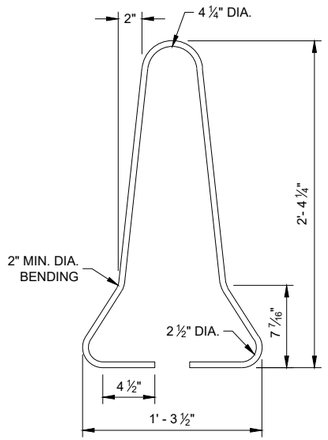
PROFILE VIEW

TEMPORARY BARRIER REINFORCEMENT

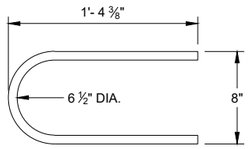
CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

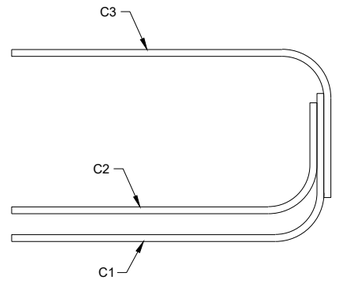
SDD 14B07-16a



B4 BAR DETAIL

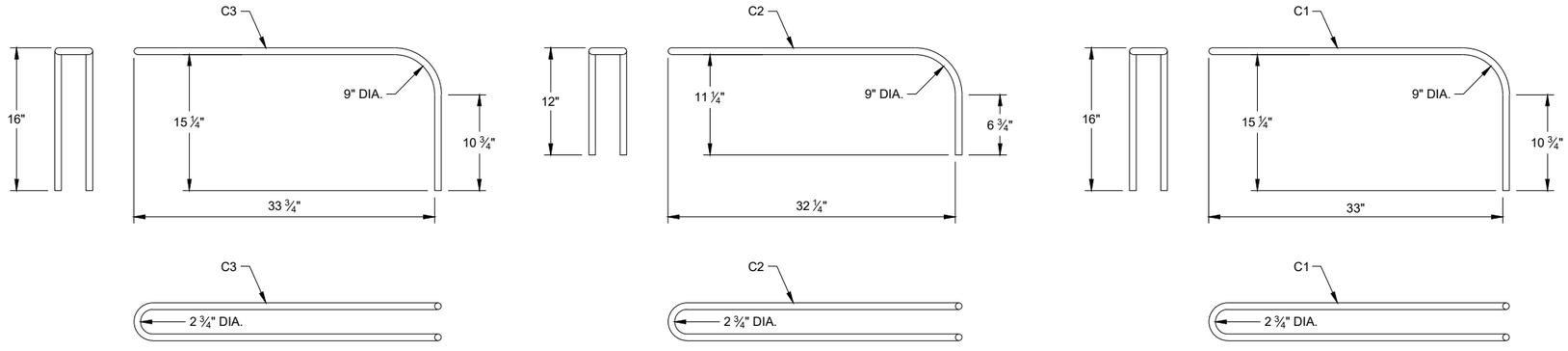


B5 BAR DETAIL



PROFILE VIEW

LOOP BAR ASSEMBLY



C BAR DETAILS

6

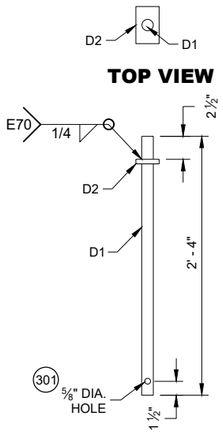
SDD 14B07-16b

6

SDD 14B07-16b

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

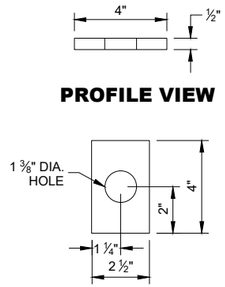
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA



TOP VIEW

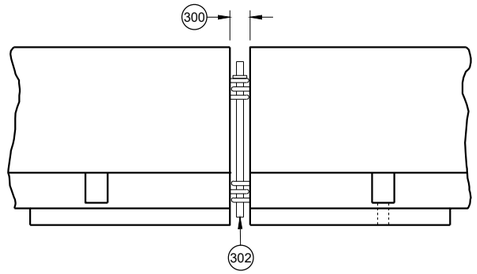
PROFILE VIEW

CONNECTOR PIN ASSEMBLY



PROFILE VIEW

TOP VIEW D2



CONNECTING TEMPORARY BARRIER SECTIONS

GENERAL NOTES

300 SET WITH 3 ⅝" WOOD BLOCK.

301 HOLE IS OPTIONAL.

302 CONNECTOR PIN ASSEMBLY.

303 CONCRETE PAVEMENT, APPROACH SLAB, OR DECK.

304 CONCRETE DECK.

305 DO NOT USE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY OR CONCRETE PAVEMENT WITH ASPHALT OVERLAY.

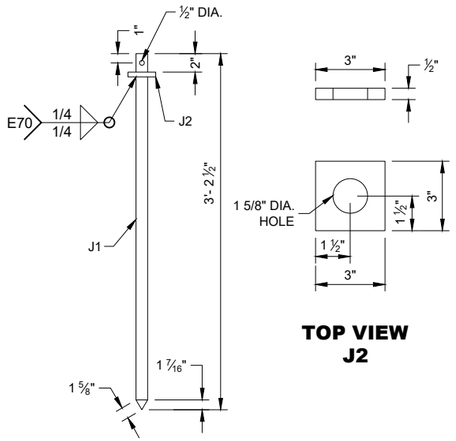
306 MINIMUM OF 2" OF ASPHALT.

307 ASPHALT ANCHOR PIN ASSEMBLY

308 IF DRILLING A PILOT HOLE, THE MAX, DIA. OF THE HOLE IS 3/4"

309 WHEN THERE IS ASPHALT OVERLAYING CONCRETE PAVEMENT, A 1 5/8" DIA. PILOT HOLE CAN BE DRILLED INTO THE OVERLAY AND CONCRETE. IF NEEDED DRILL A 3/4" PILOT HOLE IN BASE COURSE.

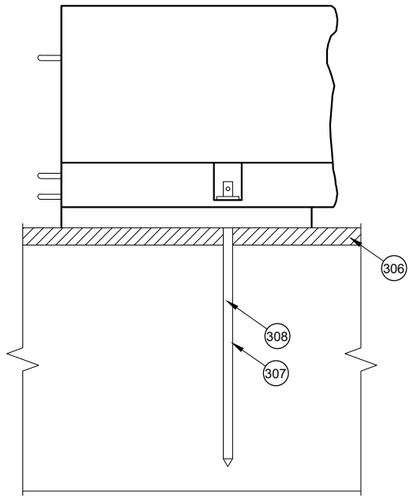
TOP VIEW



TOP VIEW J2

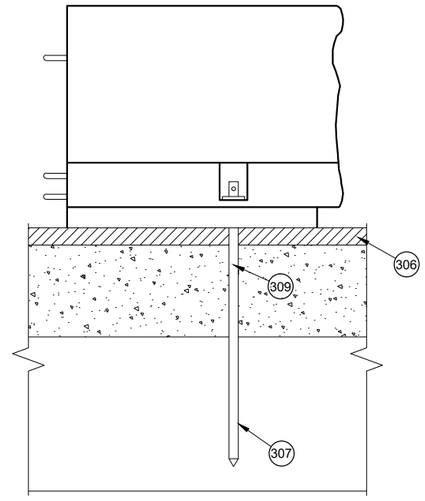
PROFILE VIEW

ASPHALT ANCHOR PIN ASSEMBLY



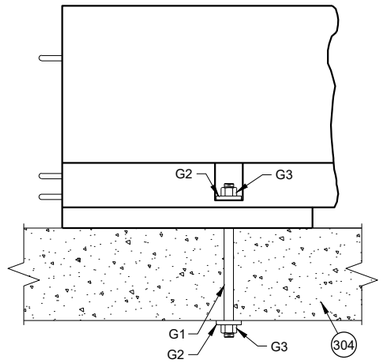
SIDE VIEW

ASPHALT ANCHOR INSTALLATION THROUGH ASPHALT PAVEMENT



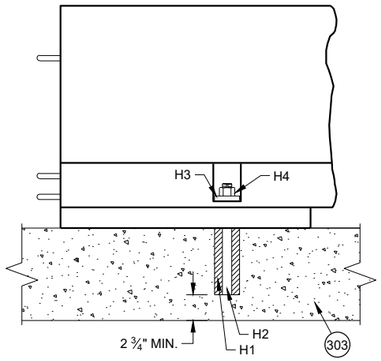
SIDE VIEW

ASPHALT ANCHOR INSTALLATION THROUGH ASPHALT OVERLAY ON TOP OF CONCRETE PAVEMENT



SIDE VIEW

THROUGH BOLT ANCHOR INSTALLATION 305



SIDE VIEW

ADHESIVE ANCHOR INSTALLATION 305

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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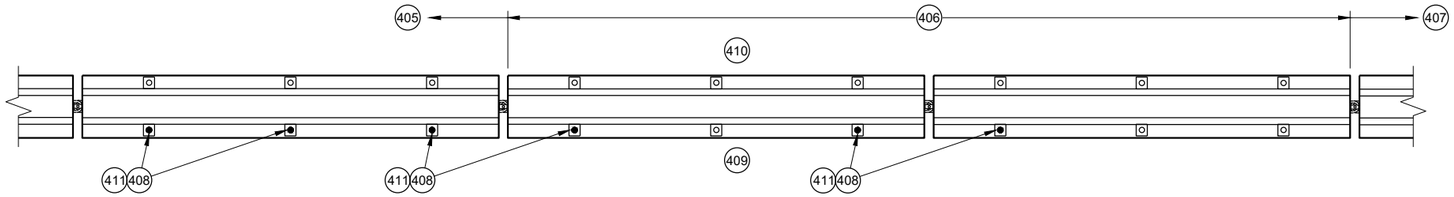
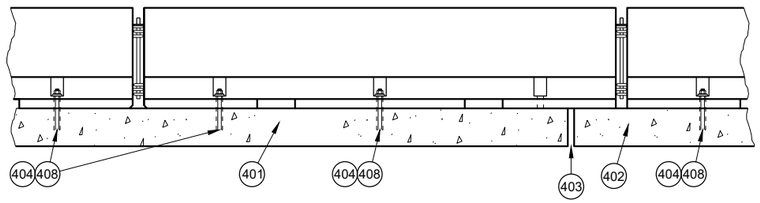
SDD 14B07-16c



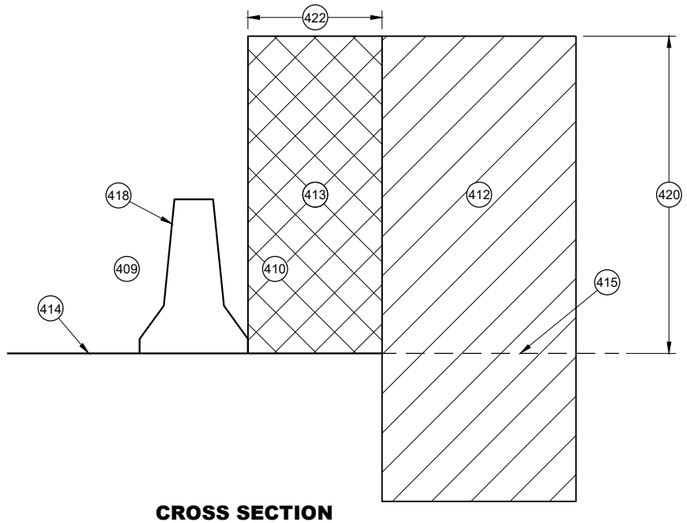
PLAN VIEW

TRANSITION FROM FREE STANDING TO ANCHORED BARRIER



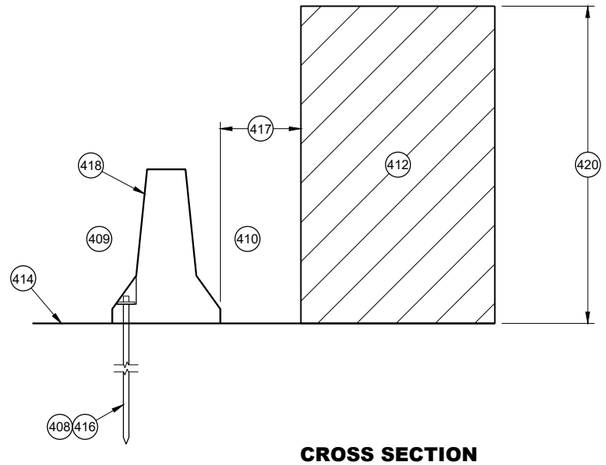
PROFILE VIEW

ANCHORED BARRIER NEAR EXPANSION JOINT (400)



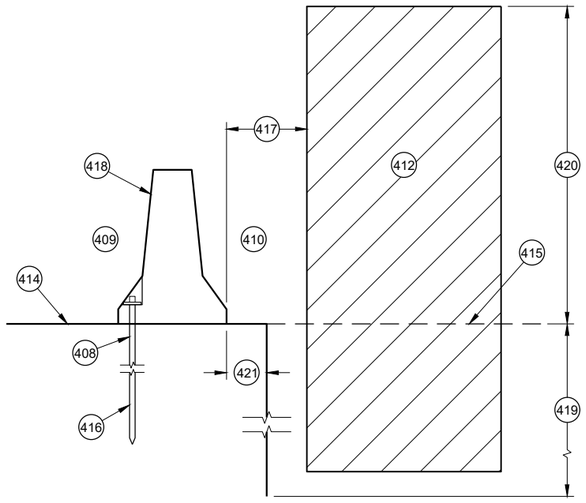
CROSS SECTION

FREE STANDING BARRIER



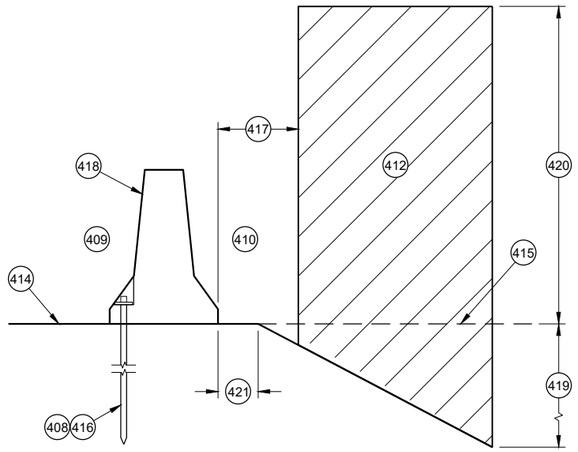
CROSS SECTION

ANCHORED BARRIER FOR OBJECTS ABOVE THE GRADE LINE AND NEAR THE BARRIER



CROSS SECTION

ANCHORED BARRIER NEAR VERTICAL DROP OFF



CROSS SECTION

ANCHORED BARRIER NEAR A SLOPE

GENERAL NOTES

(400) NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.

(401) CONCRETE DECK

(402) CONCRETE DECK OR APPROACH SLAB.

(403) EXPANSION JOINT

(404) ADHESIVE ANCHOR SHOWN. SEE ANCHOR DETAILS.

(405) ANCHORED TEMPORARY BARRIER

(406) TRANSITION FROM ANCHORED TEMPORARY BARRIER TO FREE STANDING

(407) FREE STANDING BARRIER

(408) REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERCIAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(409) TRAFFIC SIDE

(410) NON-TRAFFIC SIDE

(411) ANCHOR LOCATION. SEE ANCHORING DETAILS.

(412) WORK AREA

(413) AREA FREE OF OBJECTS AND WORKERS

(414) GRADE LINE

(415) EXTENDED GRADE LINE

(416) ANCHORED TEMPORARY BARRIER. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR AN ASPHALT ANCHOR ROD DETAILS FOR MORE INFORMATION. ASPHALT ANCHOR ROD SHOWN.

(417) WHEN OBJECTS EXTEND ABOVE THE GRADE. A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT.

(418) OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR ALLOWED TO LEAN AGAINST THE BARRIER WITHOUT WRITTEN PERMISSION OF THE PROJECT ENGINEER.

(419) DEPTHS OF 3 FEET OR MORE.

(420) Y = 6.5'

(421) OFFSET FROM BACK OF BARRIER EDGE:

CONCRETE PAVEMENT	0.5'
ASPHALT	0.5'

(422) POSTED SPEED (MPH):

45 OR GREATER	4.0'
40 OR LOWER	2.0'

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B07-16d

GENERAL NOTES

(500) EXISTING RIGID BARRIERS (VARIES)

(501) TEMPORARY BARRIER

(502) SEE OTHER DETAIL ON HOW TO ANCHOR TEMPORARY BARRIER (BARRIER ASPHALT ANCHOR SHOWN).

(503) ANCHORS ARE REQUIRED ON BOTH SIDE OF THE TEMPORARY BARRIER.

(504) NESTED RAILS ARE REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

(505) TRAFFIC TRAVELS FROM PERMANENT BARRIER TO TEMPORARY BARRIER.

(506) TRAFFIC TRAVELS FROM TEMPORARY BARRIER TO PERMANENT BARRIER.

(507) VERTICAL BARRIER

(508) SAFETY SHAPE BARRIER

(509) SINGLE SLOPE BARRIER

(510) CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF RIGID BARRIER.

(511) BENT THRIE BEAM TO FIT.

(512) THRIE BEAM PIECES ARE OFFSET 15 ¼" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.

(513) TWO (2) P1, P2 AND P3 ARE REQUIRED

(514) FIVE (5) N1, N2 AND N3 ARE REQUIRED

(515) TWO (2) R1, R2 AND R3 ARE REQUIRED

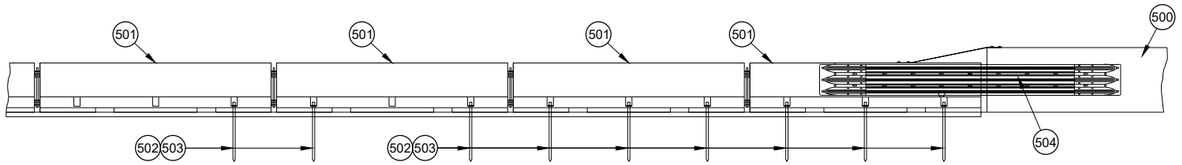
(516) CUT WOOD BLOCK TO FIT.

(517) SEE THRIE BEAM RAIL TERMINAL CONNECTOR DETAIL ASSEMBLY.

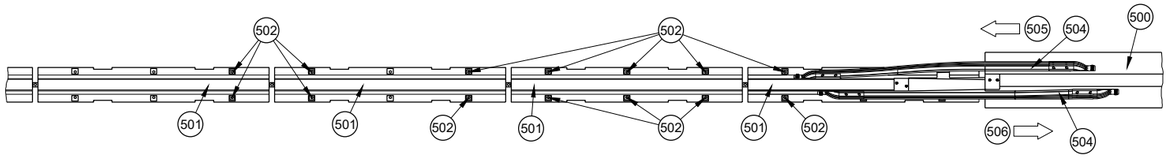
(518) CAP ASSEMBLY

(519) 4" MAX. GAP BETWEEN TEMPORARY BARRIER AND RIGID BARRIER.

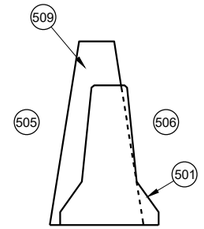
(520) ALL TWELVE SPLICE HOLES REQUIRE M1 AND M2



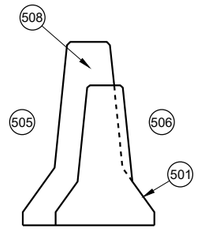
PROFILE VIEW



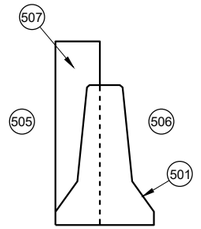
PLAN VIEW



CROSS SECTION TEMPORARY BARRIER PLACEMENT SINGLE SLOPE

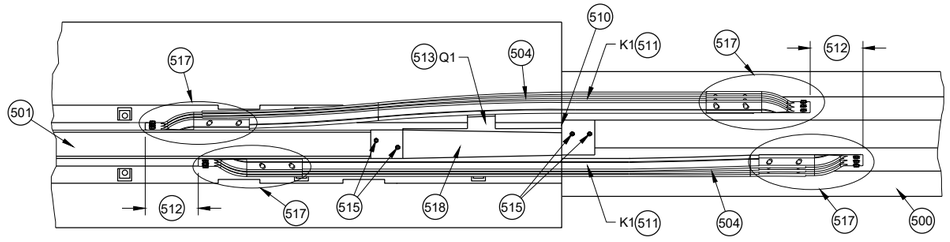


CROSS SECTION TEMPORARY BARRIER PLACEMENT SAFETY SHAPE

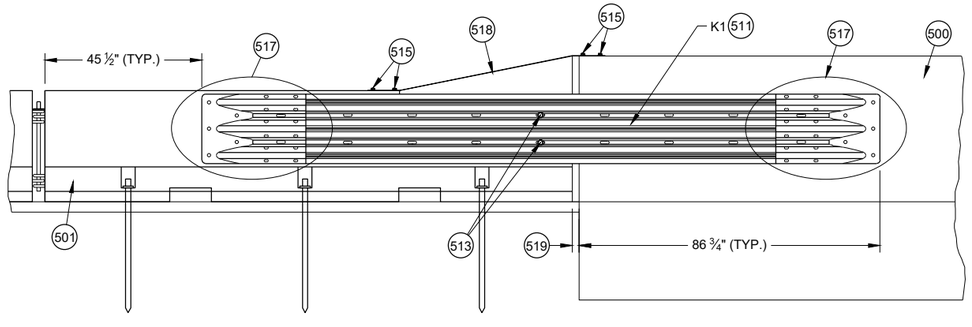


CROSS SECTION TEMPORARY BARRIER PLACEMENT VERTICAL

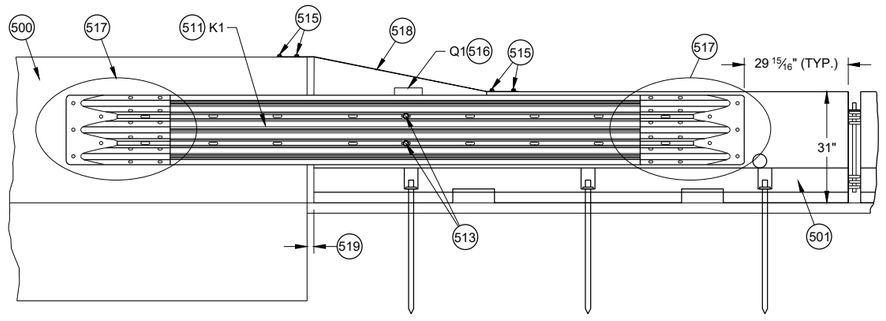
PLAN VIEW
TRANSITION TO RIGID BARRIER



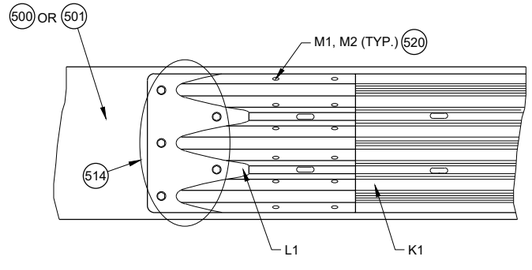
PLAN DETAIL VIEW
TRANSITION TO RIGID BARRIER



FRONT DETAIL VIEW
TRANSITION TO RIGID BARRIER



BACK DETAIL VIEW
TRANSITION TO RIGID BARRIER



(517) DETAIL PLAN VIEW
THRIE BEAM RAIL TERMINAL CONNECTOR ASSEMBLY

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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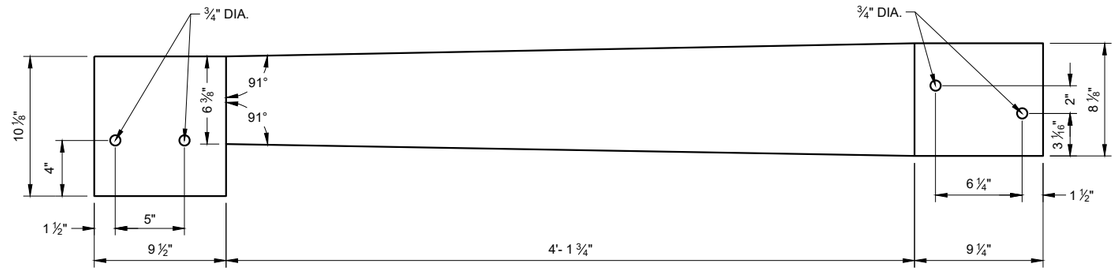
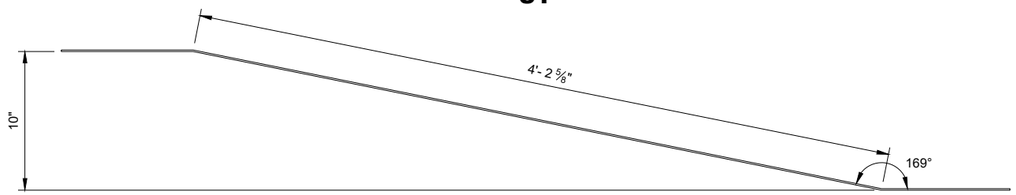
SDD 14B07-16e



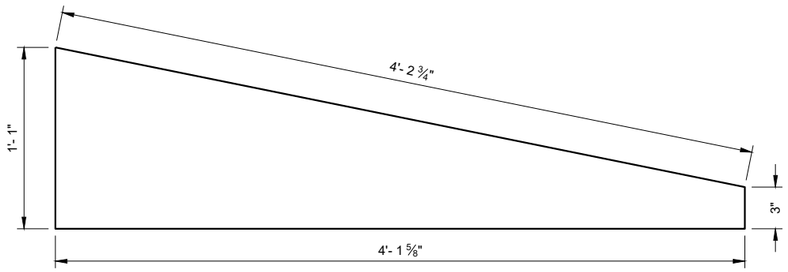
TOP VIEW

S1



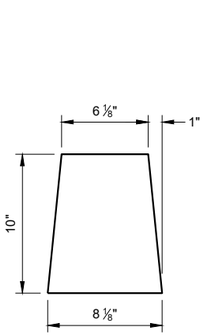
ELEVATION VIEW

S1

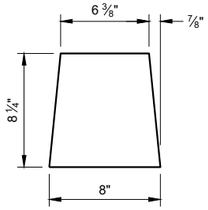


SIDE VIEW

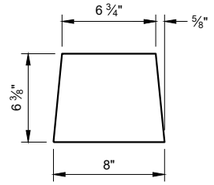
S3



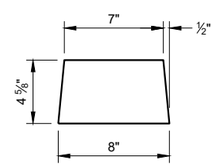
S2



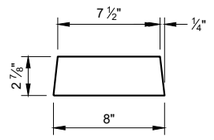
S4



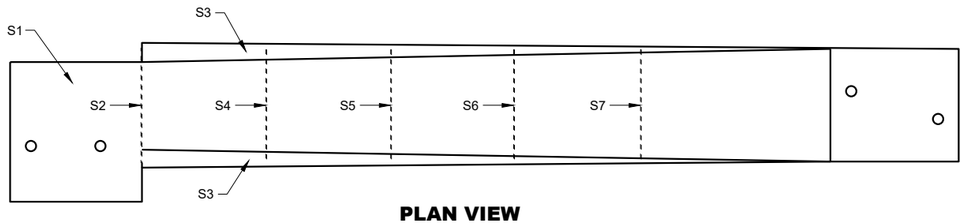
S5



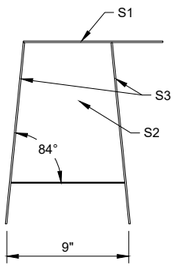
S6



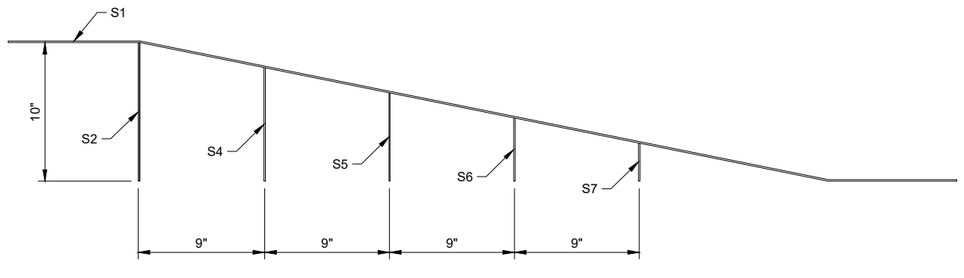
S7



PLAN VIEW



BACK VIEW



SIDE VIEW (600)

42" TOP CAP ASSEMBLY

GENERAL NOTES

STITCH WELD GUSSET PLATES AND END PLATES ON THREE SIDES

STITCH WELD TWO SIDE PLATES TO TOP PLATE, END PLATE AND GUSSETS.

(600) SIDE PLATES (S3) NOT SHOWN FOR CLARITY.

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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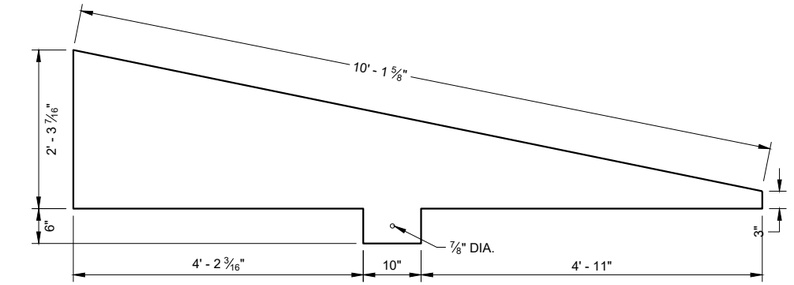
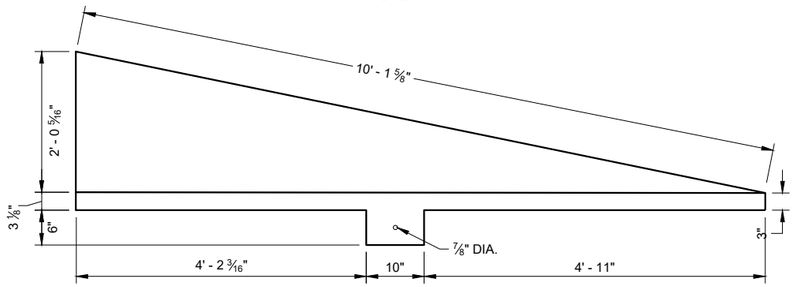
SDD 14B07-16f



SIDE VIEW
T4

END VIEW



SIDE VIEW
T3

END VIEW

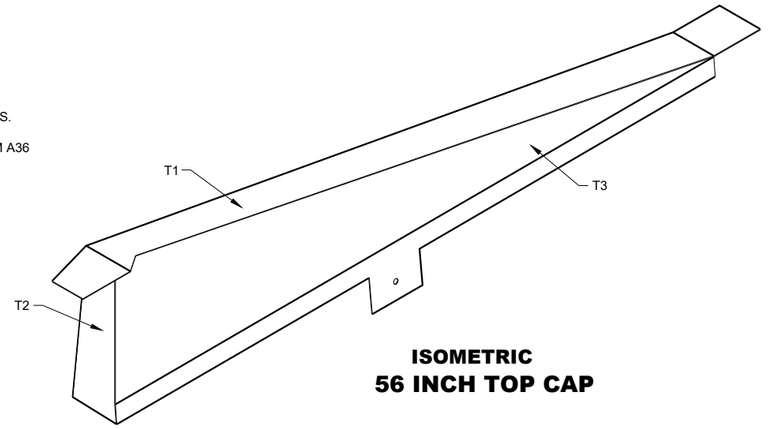
GENERAL NOTES

STITCH WELD GUSSET PLATES AND END PLATES ON THRIE SIDES

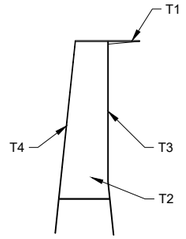
STITCH WELD TWO SIDE PLATES TO TOP PLATE, END PLATE AND GUSSETS.

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.

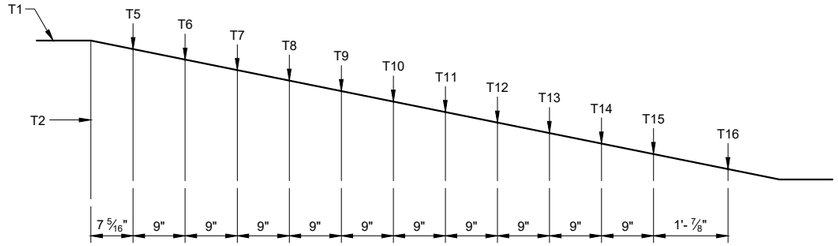
(700) SIDE PLATES (T3 AND T4) NOT SHOWN FOR CLARITY.



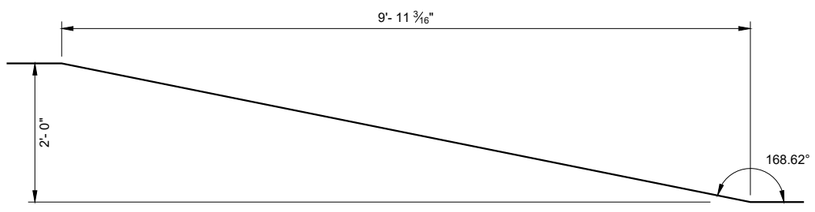
ISOMETRIC
56 INCH TOP CAP



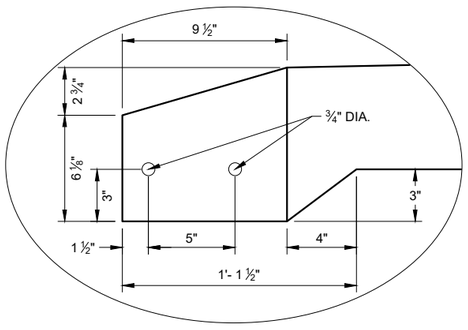
END VIEW
56 INCH TOP CAP



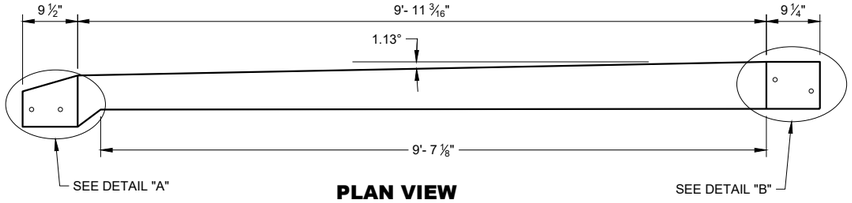
SIDE VIEW (700)
56 INCH TOP CAP



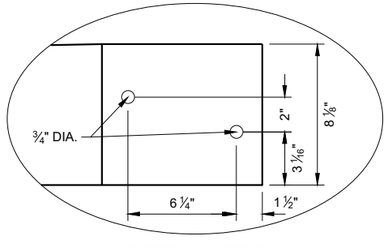
SIDE VIEW
TOP PLATE T1



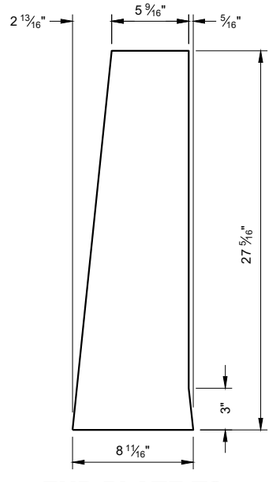
DETAIL "A"



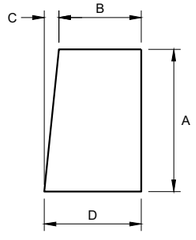
PLAN VIEW
TOP PLATE T1



DETAIL "B"



END PLATE T2



GUSSET PLATES
T5 - T16

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
T5	22 13/16"	5 1/16"	2 5/16"	8 1/16"
T6	21"	5 7/8"	2 3/16"	8 1/16"
T7	19 3/16"	6 1/16"	1 15/16"	8 1/16"
T8	17 3/8"	6 1/4"	1 13/16"	8 1/16"
T9	15 5/16"	6 7/16"	1 9/16"	8 1/16"
T10	13 3/4"	6 5/8"	1 7/16"	8 1/16"
T11	11 15/16"	6 13/16"	1 1/4"	8 1/16"
T12	10 1/8"	7"	1 1/16"	8 1/16"
T13	8 5/16"	7 3/16"	7/8"	8 1/16"
T14	6 1/2"	7 3/8"	1 1/16"	8 1/16"
T15	4 1/16"	7 9/16"	1/2"	8"
T16	2 7/8"	7 3/4"	1/4"	8"

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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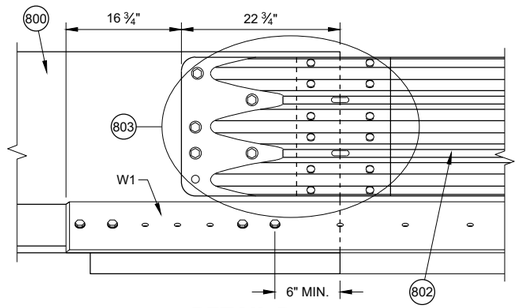
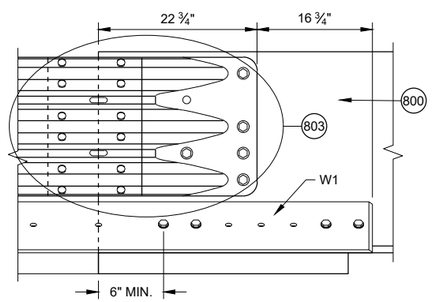
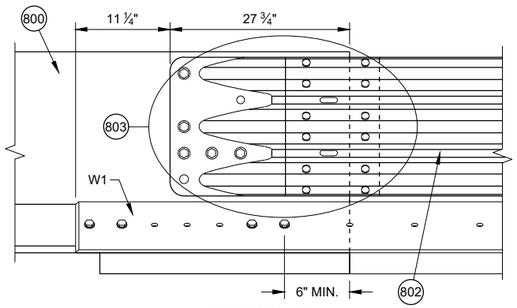
SDD 14B07-16g



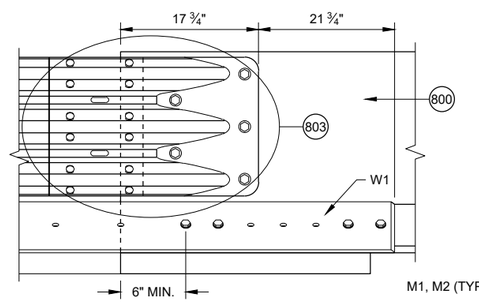
DETAIL D



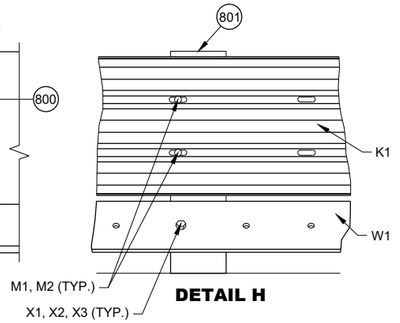
DETAIL E



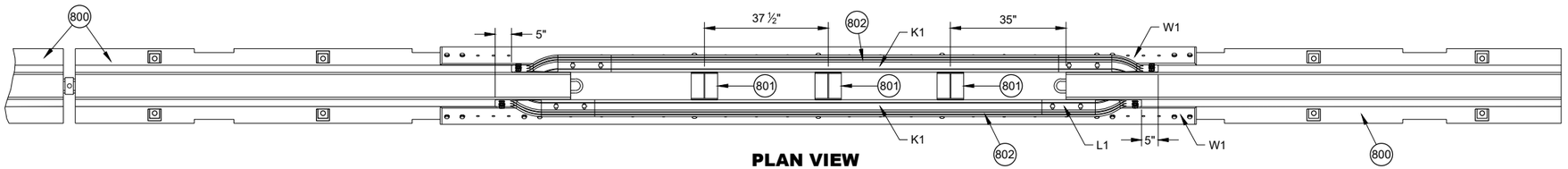
DETAIL F



DETAIL G



DETAIL H



PLAN VIEW

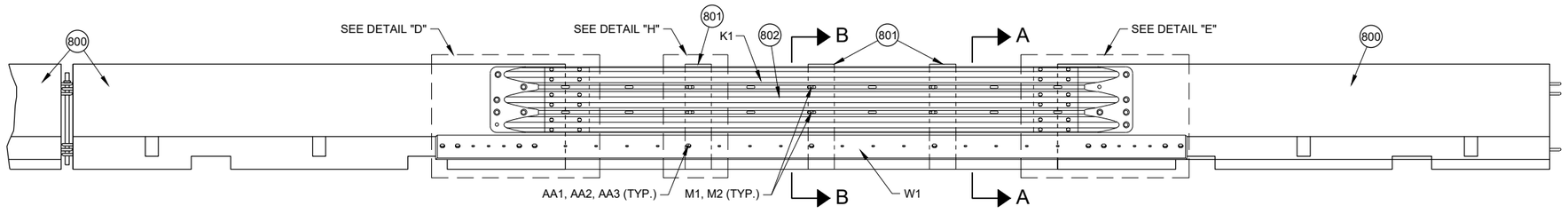
GENERAL NOTES

(800) FREE STANDING TEMPORARY BARRIER

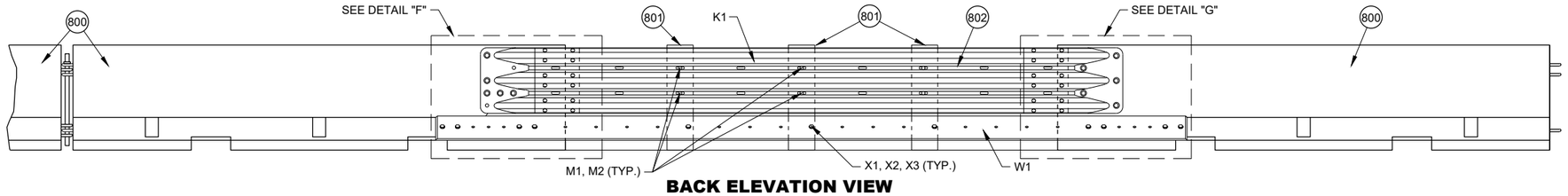
(801) GAP STIFFENER ASSEMBLY

(802) THRIE BEAMS ARE NESTED ON BOTH SIDES OF THE TEMPORARY BARRIER.

(803) SEE THRIE BEAM RAIL TERMINAL CONNECTOR DETAIL



FRONT ELEVATION VIEW



BACK ELEVATION VIEW

PORTABLE CONCRETE BARRIER GAP THRIE BEAM COVER

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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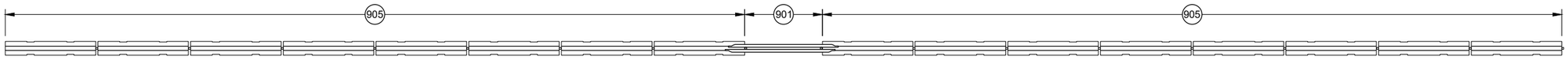
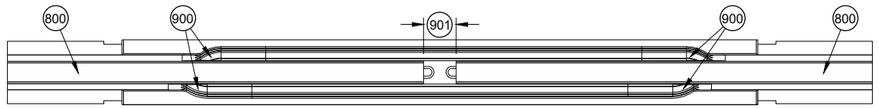
SDD 14B07-16h



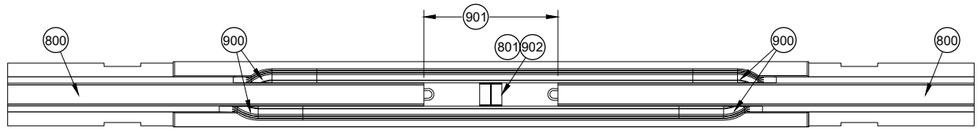
PLAN VIEW
GAP WITHIN SPACING



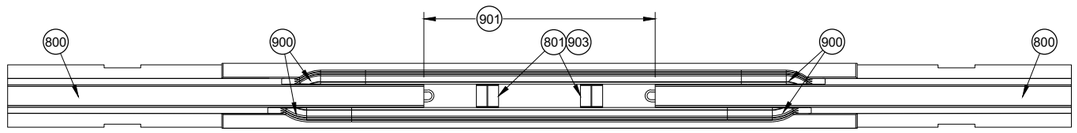
PLAN VIEW
TEMPORARY BARRIER GAP OVER 4" TO 1' MAX. (904)

GENERAL NOTES

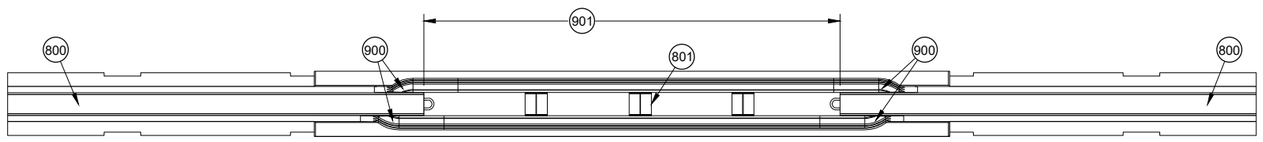
(900) SEE OTHER DETAILS FOR TEMPORARY GAP HARDWARE (TYP.)
(901) TEMPORARY BARRIER GAP
(902) GAP STIFFENER ASSEMBLY CENTERED IN THE GAP.
(903) GAP STIFFENER ASSEMBLY IS OFFSET 18 ¾" FROM CENTER
(904) MINIMUM NUMBER OF GAP STIFFENERS SHOWN FOR THE GAP RANGE SHOWN.
(905) MINIMUM OF 8 CONTINUOUS FREE STANDING TEMPORARY BARRIERS



PLAN VIEW
TEMPORARY BARRIER GAP OVER 1' TO 4' MAX. (904)

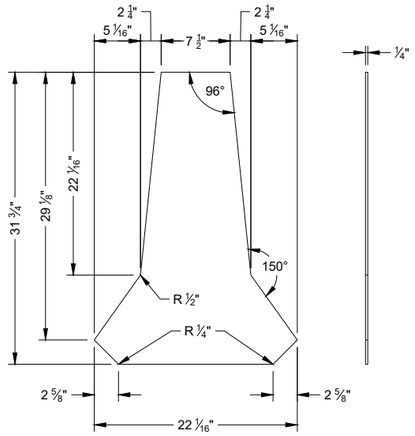


PLAN VIEW
TEMPORARY BARRIER GAP OVER 4' TO 7' MAX. (904)



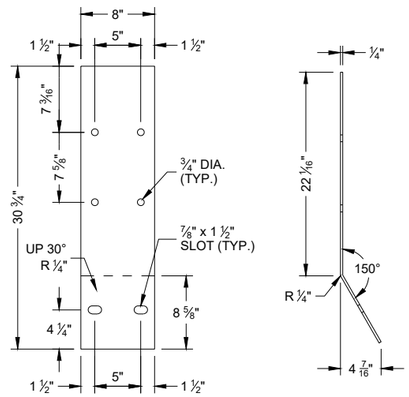
PLAN VIEW
TEMPORARY BARRIER GAP OVER 7' TO 12.5' MAX. (904)

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"



PROFILE VIEW SIDE VIEW

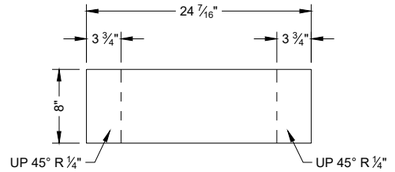
STIFFENER ASSEMBLY CENTER PANEL U1



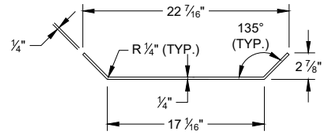
FLAT PATTERN

SIDE VIEW

STIFFENER ASSEMBLY SIDE PANEL U2

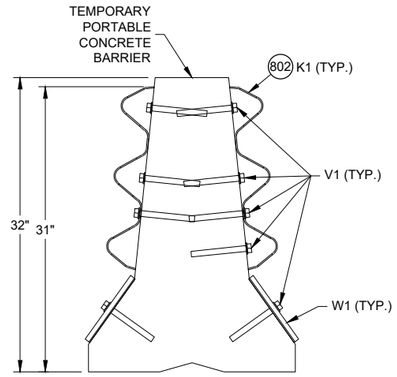


FLAT PATTERN

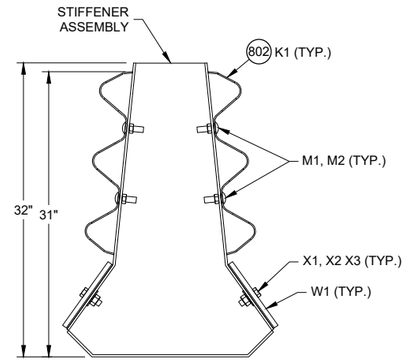


PROFILE VIEW

STIFFENER ASSEMBLY BOTTOM PANEL U3

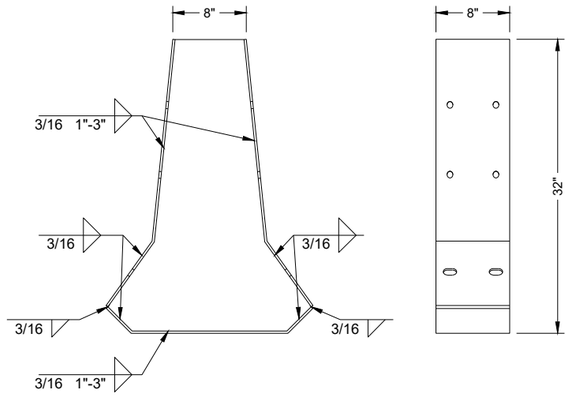


SECTION A - A



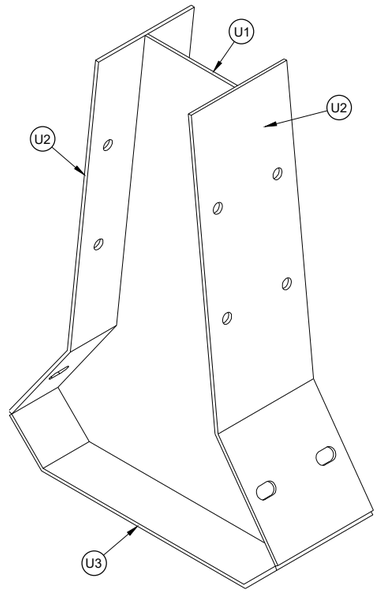
SECTION B - B

PLAN VIEW



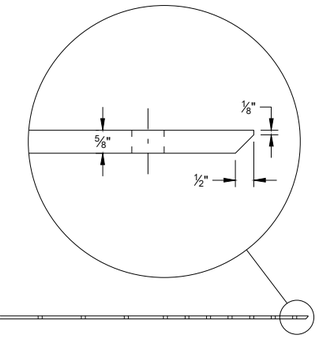
PROFILE VIEW

SIDE VIEW

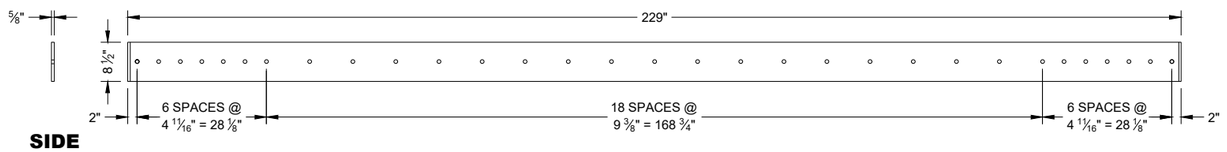


ISOMETRIC

GAP STIFFENER ASSEMBLY



PLAN VIEW



SIDE VIEW

ELEVATION VIEW

W1 TOE PLATE

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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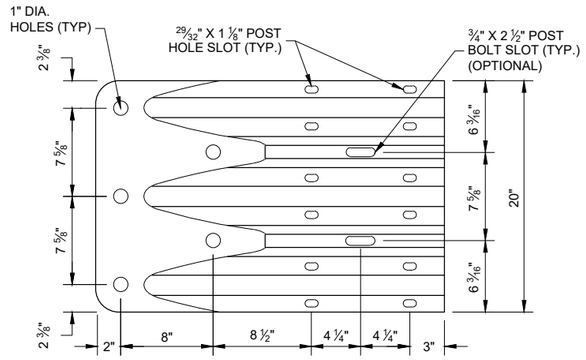
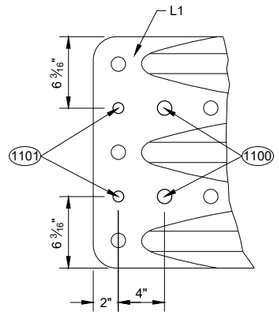
SDD 14B07-16j



ELEVATION VIEW

THRIE BEAM TERMINAL CONNECTOR



ELEVATION VIEW

ADDITIONAL THRIE BEAM (1102) TERMINAL CONNECTOR HOLE DETAIL

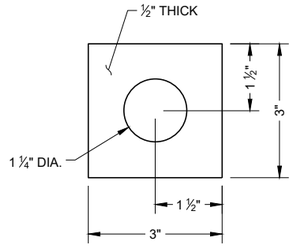


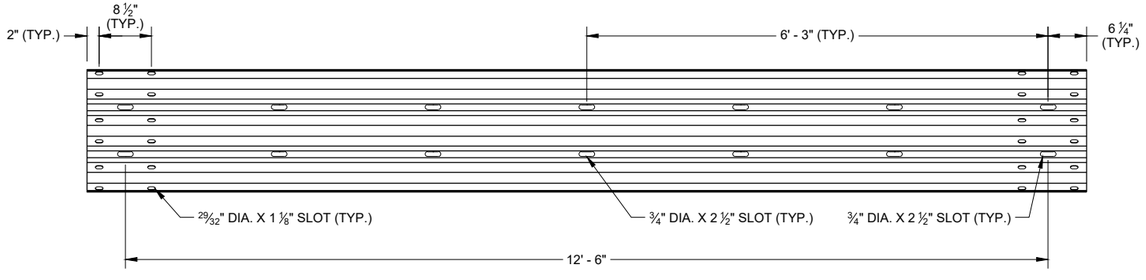
PLATE WASHER DETAIL G2, H3

GENERAL NOTES

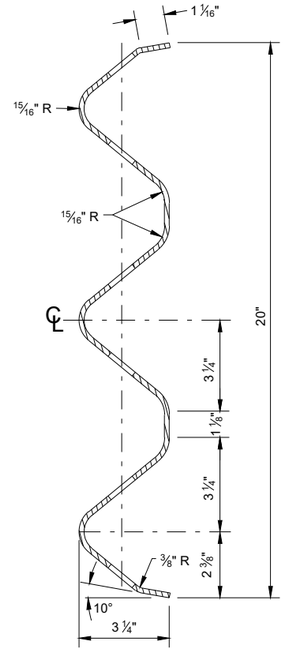
(1100) 1" DIA. HOLE

(1101) 3/4" DIA. HOLE

(1102) PROVIDE HOLES IN THRIE BEAM TERMINAL CONNECTOR TO LIMIT STEEL REINFORCEMENT OR LOOP BAR CONFLICT. CONTRACTOR MAY FIELD DRILL ADDITIONAL HOLE OR PROVIDE THRIE BEAM TERMINAL CONNECTOR WITH ADDITIONAL HOLES FROM SUPPLIER.



SLOTTED THRIE BEAM RAIL K1



SECTION THROUGH BEAM K1

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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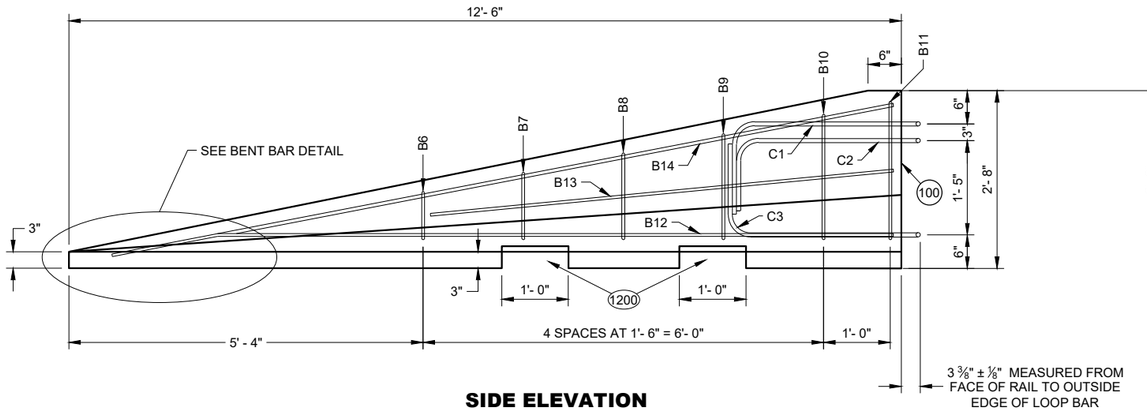
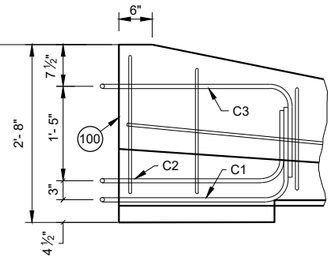
SDD 14B07-16k



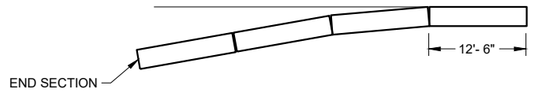
SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED FOR OPPOSITE END
(FOR CONNECTION TO RIGHT END OF BARRIER)

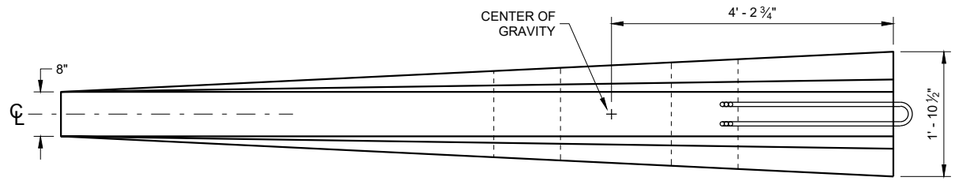
GENERAL NOTES

(1200) SEE LIFTING SLOT DETAIL. LOCATION OF LIFTING SLOTS DETERMINED BY CONTRACTOR.

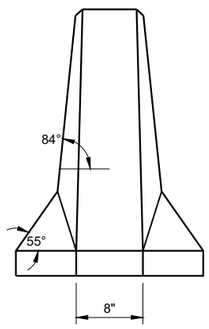


FLARE AT BARRIER END

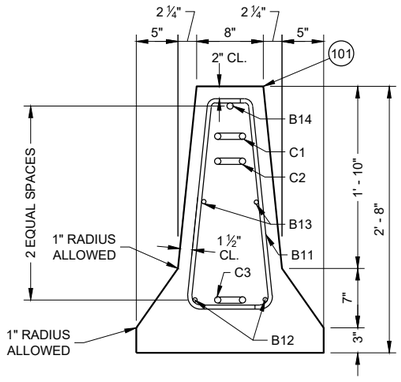
POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1



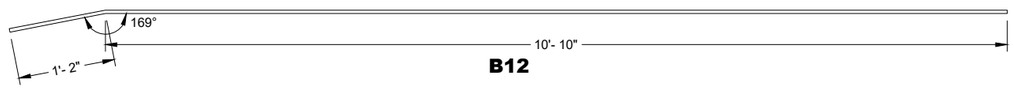
PLAN VIEW



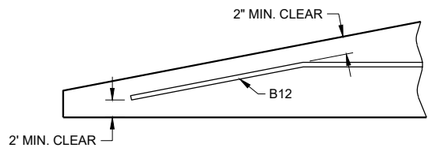
FRONT ELEVATION



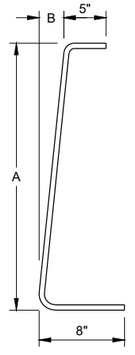
END SECTION



B12



BENT BAR DETAIL



BAR	A	B
B6	10"	1"
B7	1'- 1"	1 ¼"
B8	1'- 5"	1 ⅝"
B9	1'- 8"	1 ⅞"
B10	2'- 0 ½"	2 ⅜"
B11	2'- 3"	2 ¾"

B BARS
2 OF EACH SIZE REQUIRED FOR STIRRUP ASSEMBLY

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B07-16I

BILL OF MATERIALS - CONCRETE BARRIER PRECAST

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	PRECAST TEMPORARY BARRIER - CONCRETE	MIN. = f'c 5000 PSI	
B1	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 12'-2"
B2	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 12'-2"
B3	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 12'-2"
B4	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 6'-0"
B5	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#6 REBAR, LENGTH 2'-11"
B6	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 1'-11"
B7	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-2"
B8	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-6"
B9	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-9"
B10	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 3'-2"
B11	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 3'-4"
B12	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 12'-0"
B13	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 7'-9"
B14	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 11'-9"
C1	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
C2	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
C3	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
D1	CONNECTION PIN - ROD	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	1 ¼" DIA.
D2	CONNECTION PIN - TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
G1	BOLT THROUGH ANCHOR - THREADED ROD	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 A307 GRADE A OR SAE J429 GRADE 2 UNC	1 ⅛" DIA.
G2	BOLT THROUGH ANCHOR - WASHER, SQUARE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
G3	BOLT THROUGH ANCHOR - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
H1	ADHESIVE ANCHOR - ADHESIVE	ICC-ES-AC308 5 ¼" EMBEDMENT WITH A MIN. BOND STRENGTH OF 1,650 PSI. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
H2	ADHESIVE ANCHOR - THREADED ROD	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 A307 GRADE A / SAE J429 GRADE 2 UNC	1 ⅛" DIA.
H3	ADHESIVE ANCHOR - WASHER, SQUARE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
H4	ADHESIVE ANCHOR - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
J1	ASPHALT ANCHOR PIN - ROD	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	1 ½" DIA.
J2	ASPHALT ANCHOR PIN - STOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
K1	THRIE BEAM RAIL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER	12 GAUGE
L1	THRIE BEAM RAIL - TERMINAL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER	12 GAUGE

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
M1	SPLICE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	⅝" DIA.
M2	SPLICE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
N1	THRIE BEAM RAIL TERMINAL - MECHANICAL ANCHOR	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	¾" DIA. LENGTH 6"
N2	THRIE BEAM RAIL TERMINAL - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
N3	THRIE BEAM RAIL TERMINAL MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
P1	THRIE BEAM RAIL CONNECTION 1-BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	¾" DIA.
P2	THRIE BEAM RAIL CONNECTION 1-WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
P3	THRIE BEAM RAIL CONNETION 1- MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
Q1	BLOCK WOOD	SEE STANDARD SPEC. 614	
R1	CAP - BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	⅝" DIA.
R2	CAP- BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
R3	CAP - BOLT - MECHANICAL ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	12 GAUGE
S1	CAP 42-INCH TOP PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S2	CAP 42-INCH END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S3	CAP 42-INCH SIDE PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S4	CAP 42-INCH GUSSET 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S5	CAP 42-INCH GUSSET 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S6	CAP 42-INCH GUSSET 3	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S7	CAP 42-INCH GUSSET 4	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE

6

SDD 14B07-16m

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B07-16m

BILL OF MATERIALS - CONCRETE BARRIER PRECAST

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
T1	CAP 56-INCH TOP PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T2	CAP 56-INCH END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T3	CAP 56-INCH SIDE PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T4	CAP 56-INCH SIDE PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T5	CAP 56-INCH GUSSET 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T6	CAP 56-INCH GUSSET 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T7	CAP 56-INCH GUSSET 3	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T8	CAP 42-INCH GUSSET 4	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T9	CAP 42-INCH GUSSET 5	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T10	CAP 42-INCH GUSSET 6	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T11	CAP 42-INCH GUSSET 7	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T12	CAP 42-INCH GUSSET 8	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T13	CAP 42-INCH GUSSET 9	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T14	CAP 42-INCH GUSSET 10	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T15	CAP 42-INCH GUSSET 11	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T16	CAP 42-INCH GUSSET 12	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
U1	GAP STIFFENER	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
U2	GAP STIFFENER - CONNECTOR PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
U3	GAP STIFFENER - CONNECTOR PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
V1	THRIE BEAM RAIL TERMINAL MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS ULTIMATE TENSILE LOAD 24.0 KIPS AND ULTIMATE SHEAR LOAD 21.5 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	¾" DIA.
V2	GAP STIFFENER - BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C O R MECHANICAL GALVANIZE TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
W1	TOE PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
X1	TOE PLATE - CONNECTION BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 UNC HEAVY HEX HEAD OR AASTHO M180 HEAD, ASTM F3125 GRADE A325 TYPE 1 HEAVY HEX HEAD OR SAE J429 GRADE 5 HEAVY HEX HEAD / ASTM A449 TYPE 1 HEAVY HEX HEAD. BOLTS MAY BE FULLY THREADED. PROVIDE ENOUGH THREADING FOR PROPER TIGHTENING OF BOLT.	¾" DIA.
X2	TOE PLATE - CONNECTION BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1 (HARDEN WASHER ONLY)	
X3	TOE PLATE - CONNECTION BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	

6

SDD 14B07-16n

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

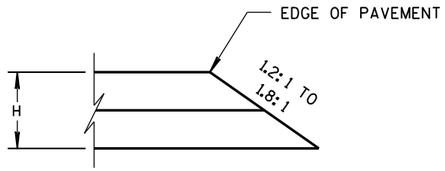
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

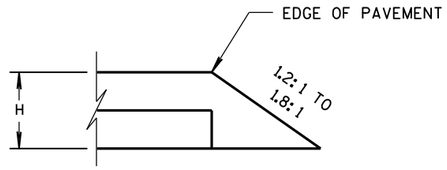
6

SDD 14B07-16n



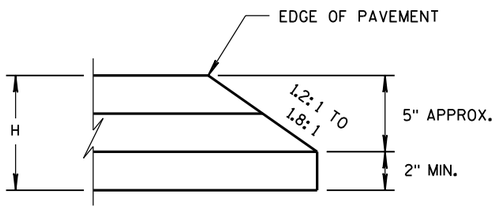
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



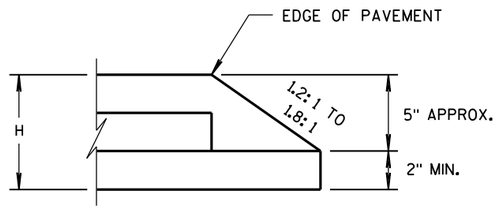
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

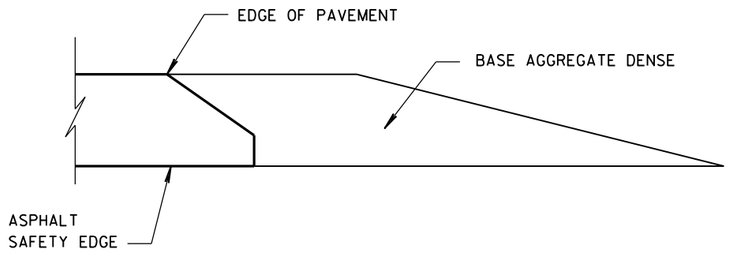
FOR H GREATER THAN 5"



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.

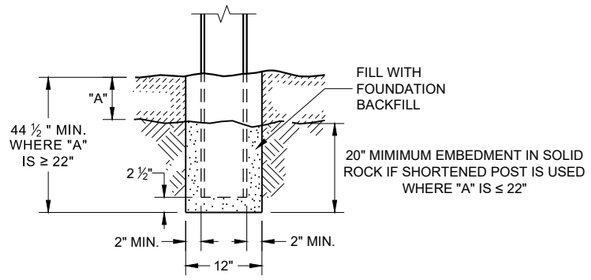
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL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

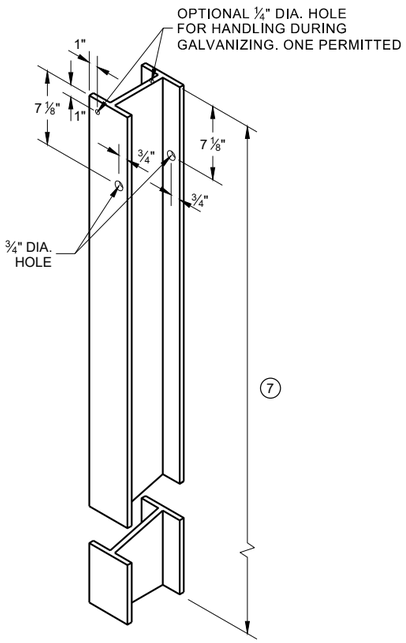
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(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.

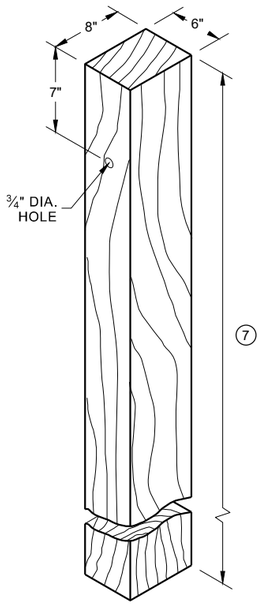
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



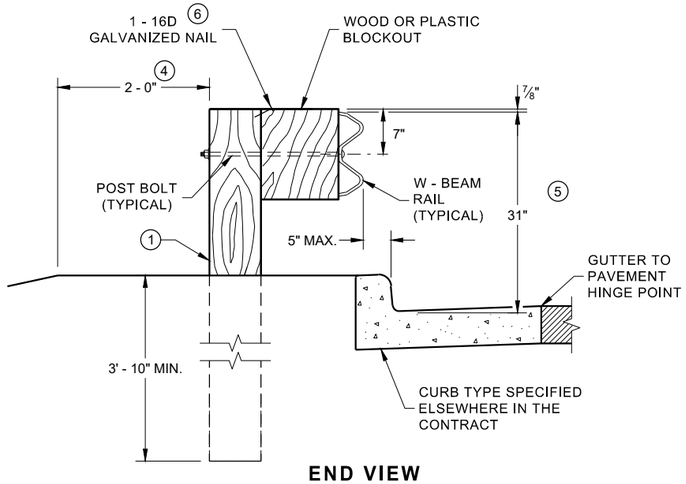
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



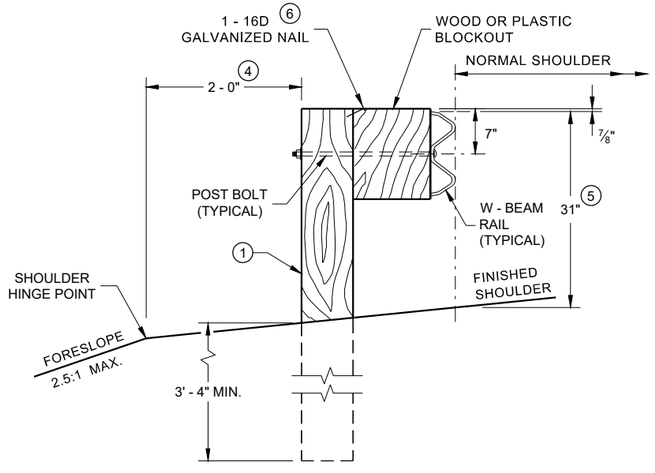
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



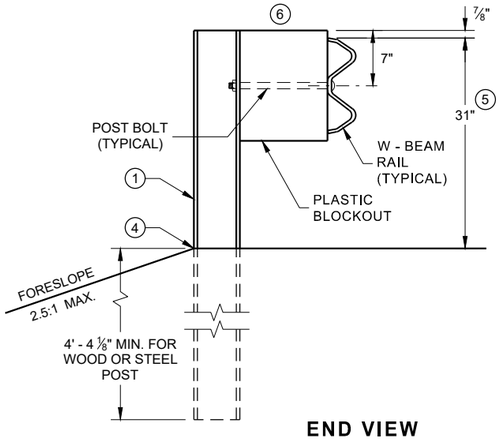
WOOD POST (6" X 8") NOMINAL (1)



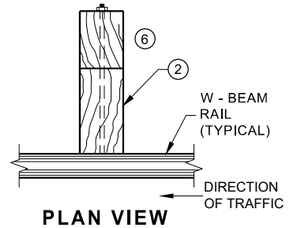
END VIEW
LOCATED ALONG A CURBED ROADWAY



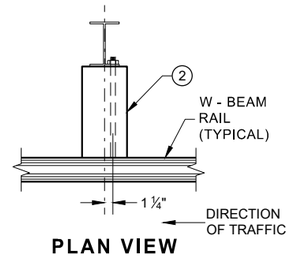
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



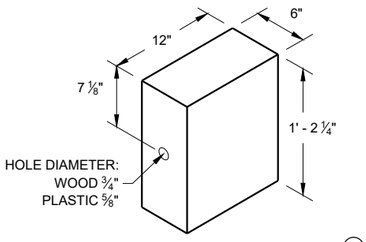
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



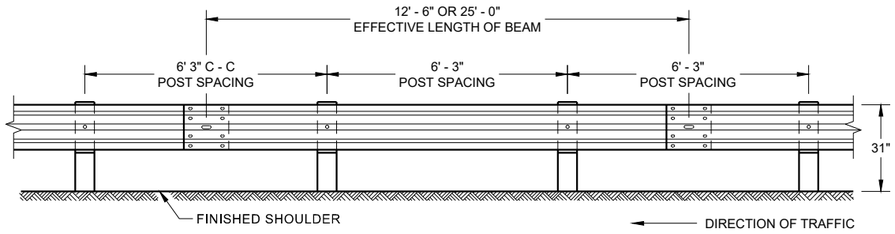
WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

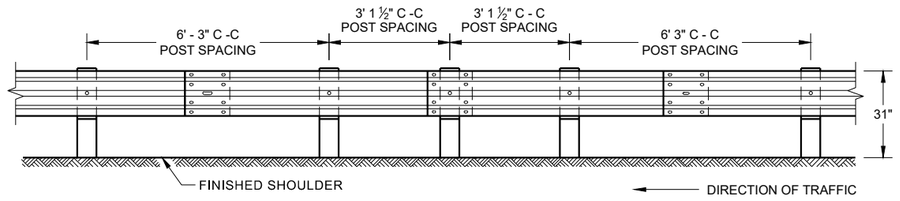
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 07a

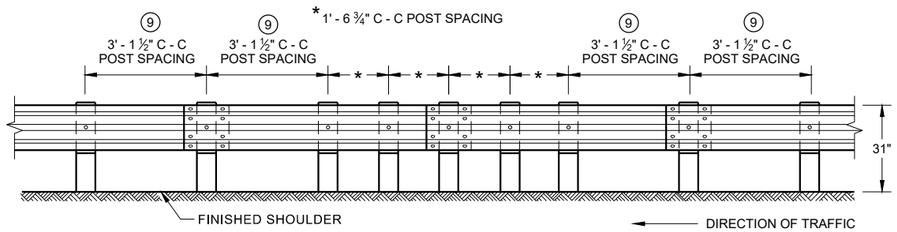
SDD 14B42 - 07a



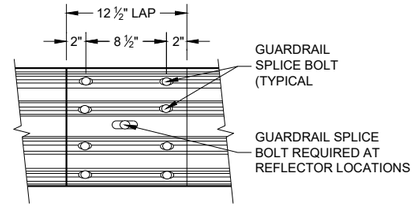
FRONT VIEW
POST SPACING STANDARD INSTALLATION



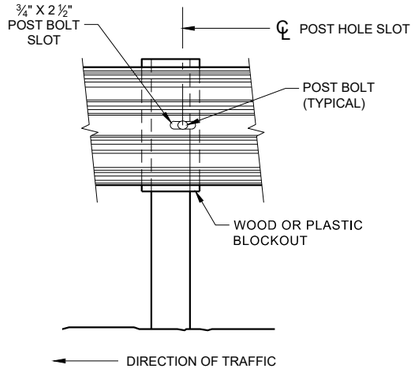
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



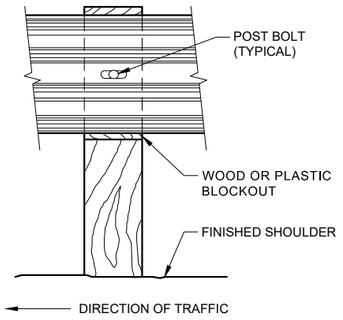
FRONT VIEW
QUARTER POST SPACING (QS)



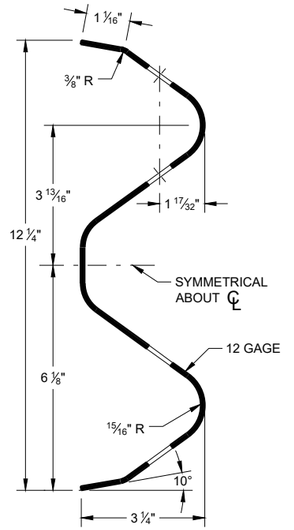
FRONT VIEW
MID-SPAN BEAM SPLICE



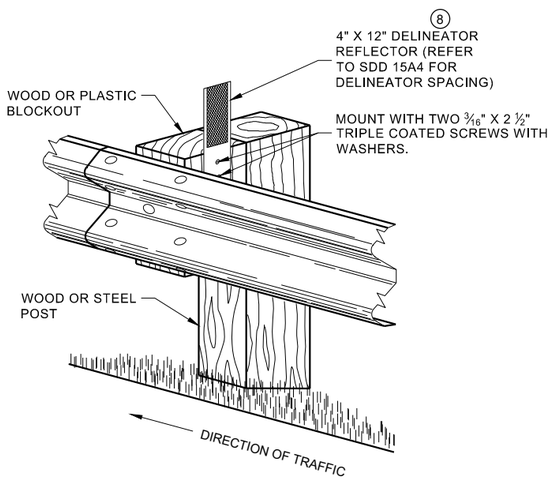
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

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

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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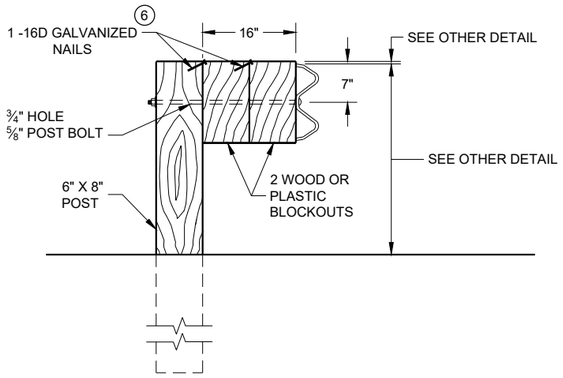
SDD 14B42 - 07b
SDD 14B42 - 07b

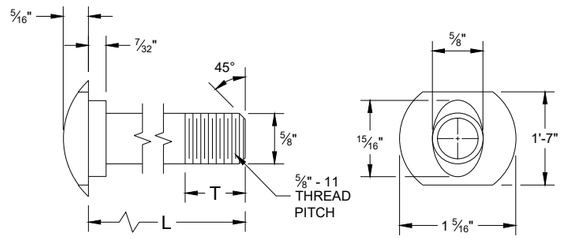


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

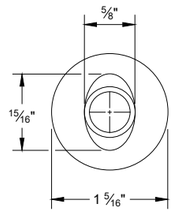
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

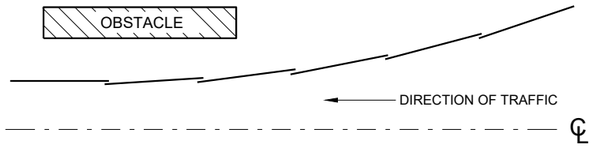


POST BOLT TABLE

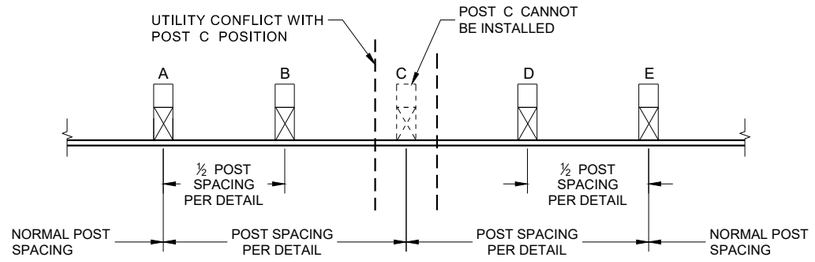
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



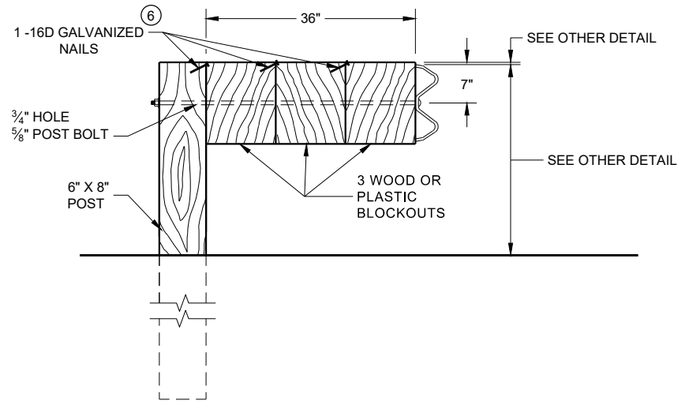
ALTERNATE BOLT HEAD



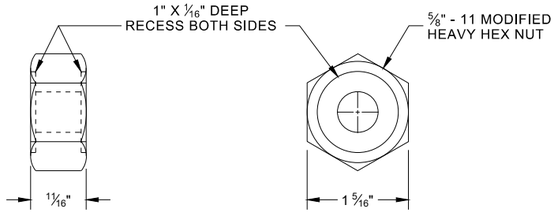
PLAN VIEW
BEAM LAPPING DETAIL



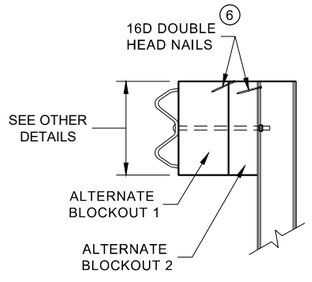
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



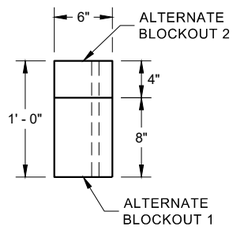
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

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

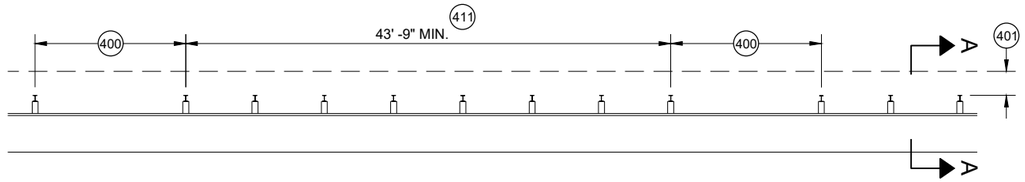
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

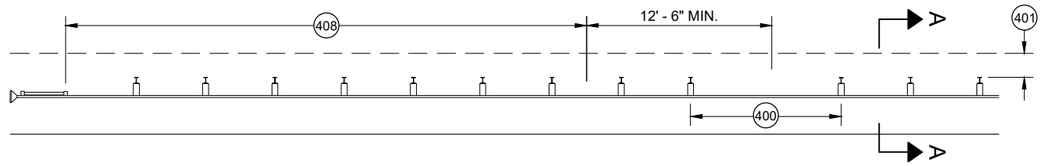
6

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

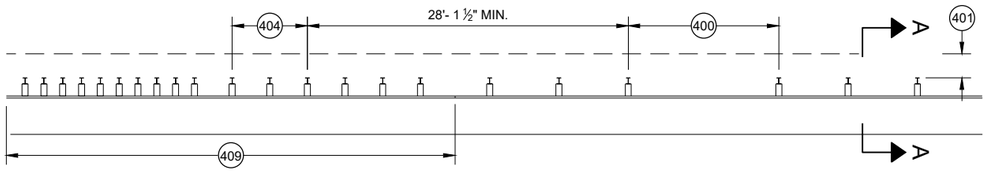
SDD 14B42 - 07c



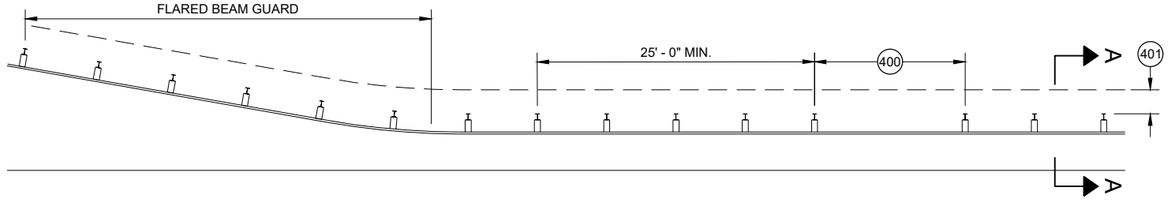
MISSING POST IN MGS GUARDRAIL



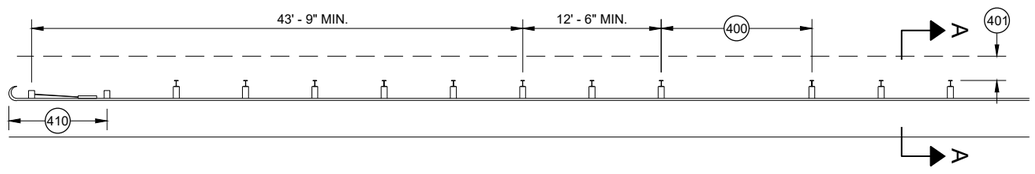
MISSING POST IN MGS GUARDRAIL NEAR EAT



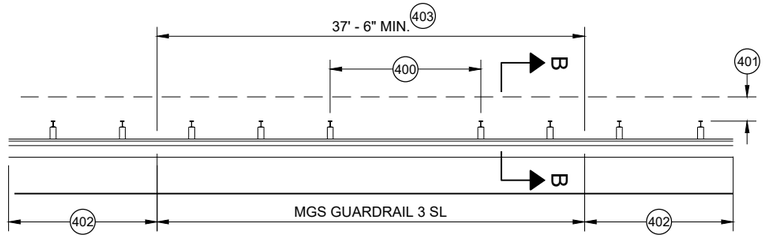
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

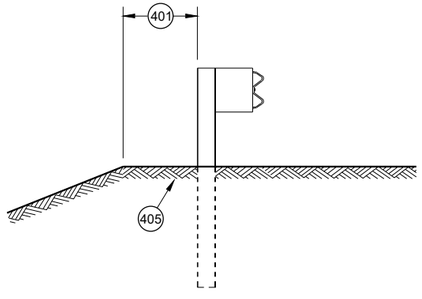


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

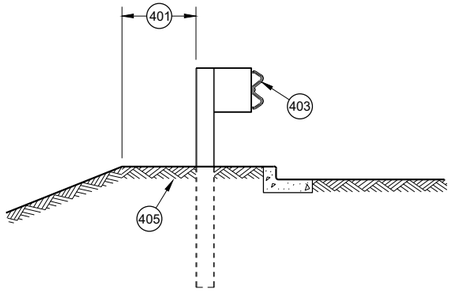


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B42 - 07d

SDD 14B42 - 07d

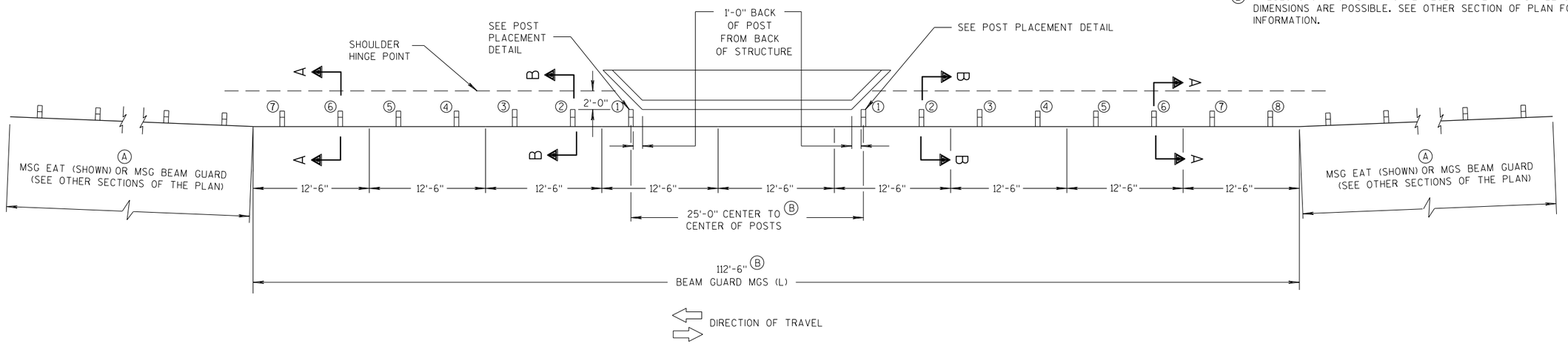
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

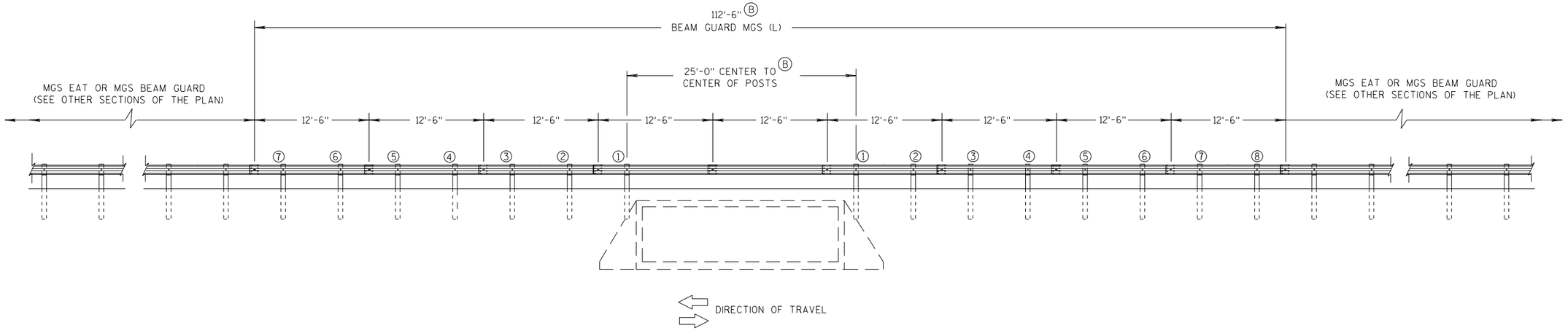
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 43-4a

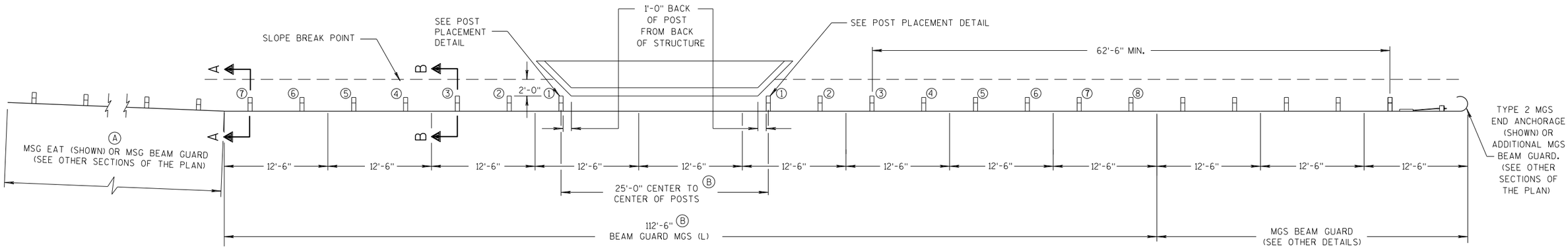
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

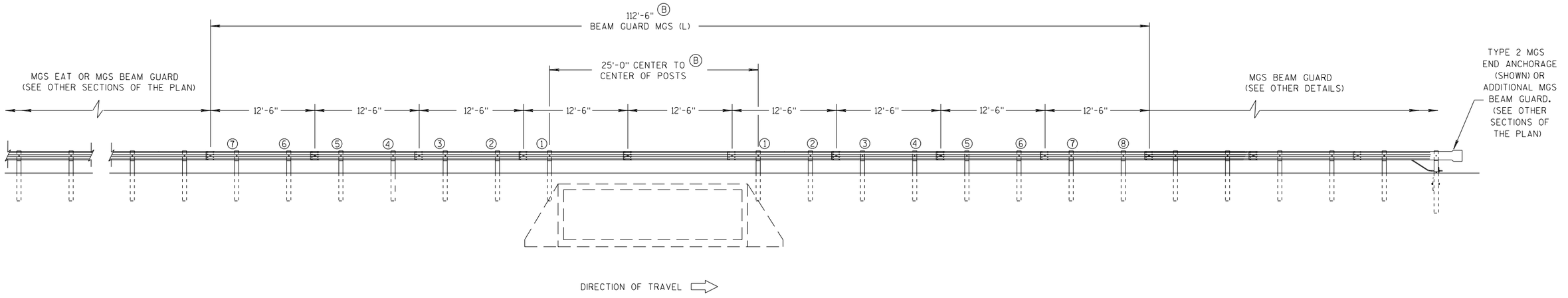
SEE SDD 14 B 42 FOR MORE DETAILS.

(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



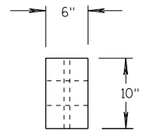
ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

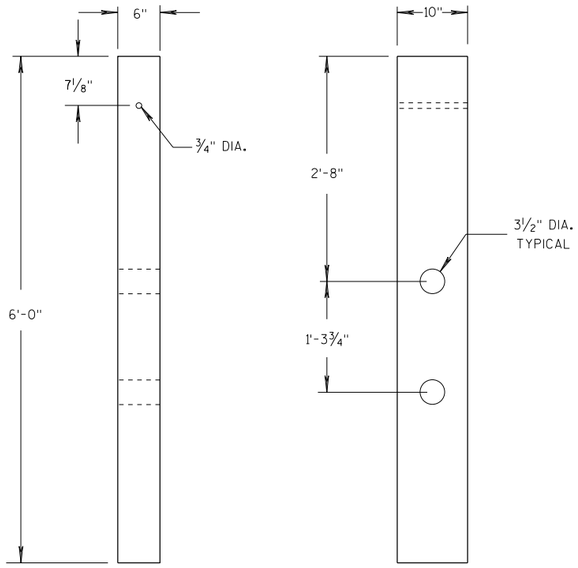
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	225

6

S.D.D. 14 B 43-4b

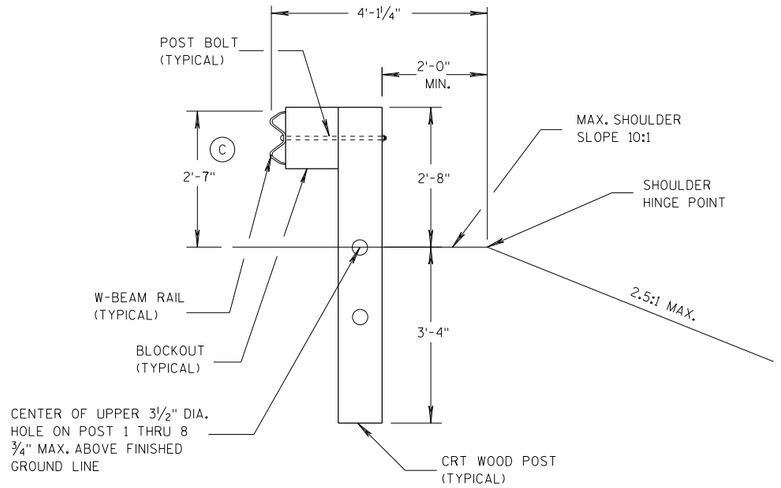


PLAN VIEW



FRONT VIEW SIDE VIEW

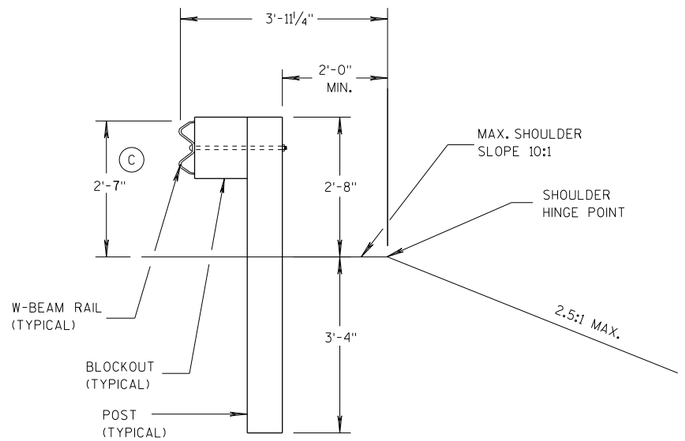
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



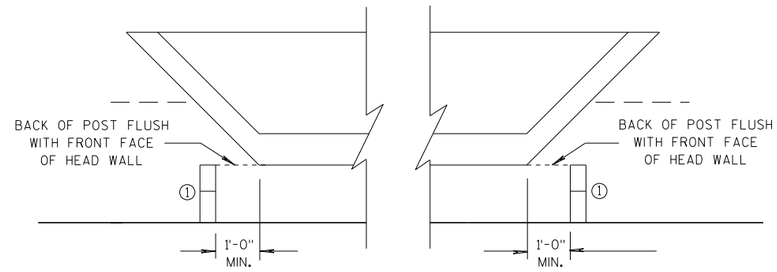
SECTION A-A

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 ENGINEER

D 226 NT

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.

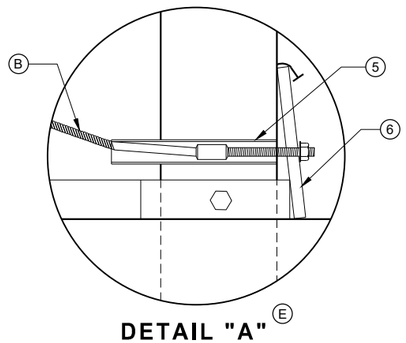
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

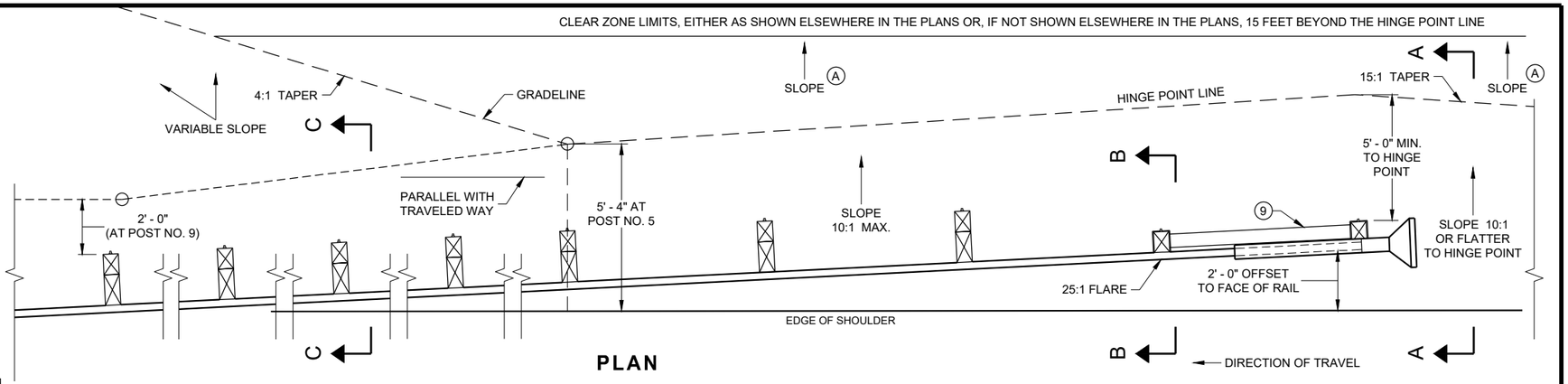
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

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

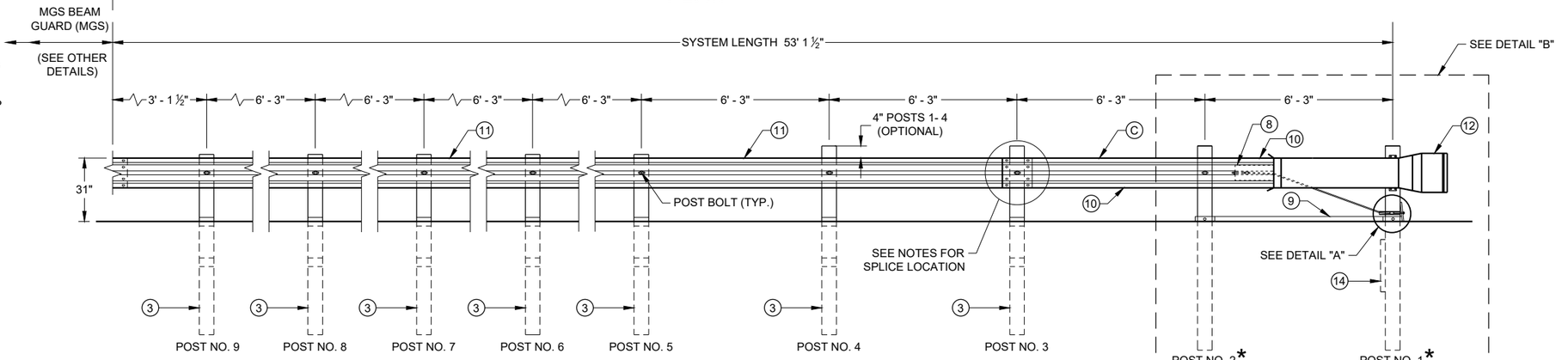
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



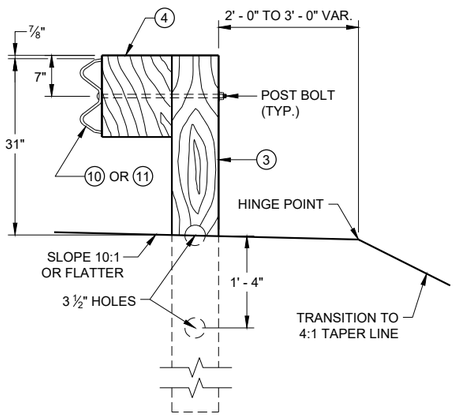
DETAIL "A" (E)



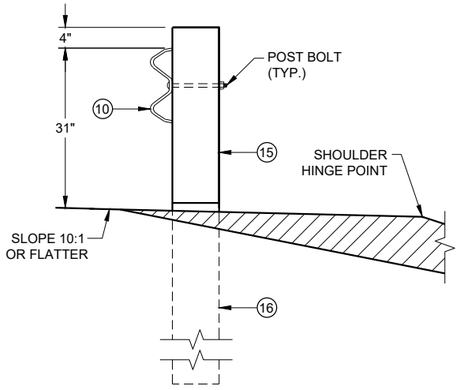
PLAN



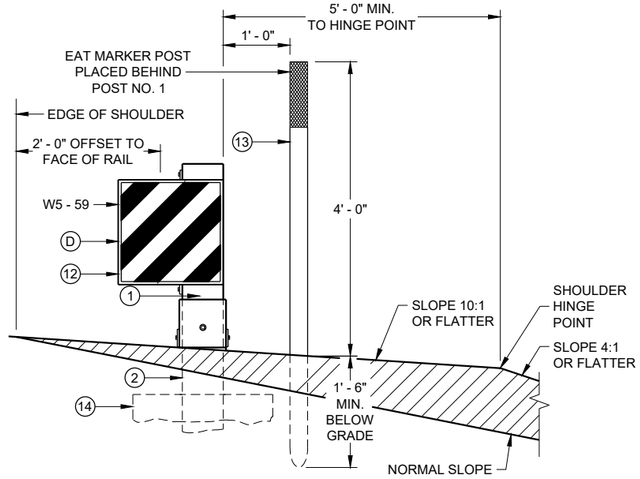
ELEVATION



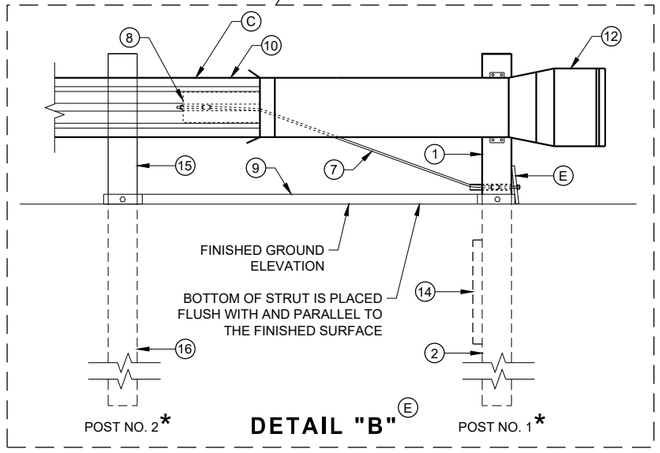
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



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)

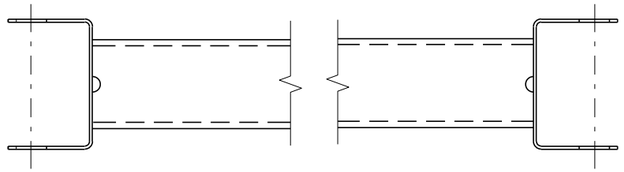
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

SDD 14B44 - 04a

6

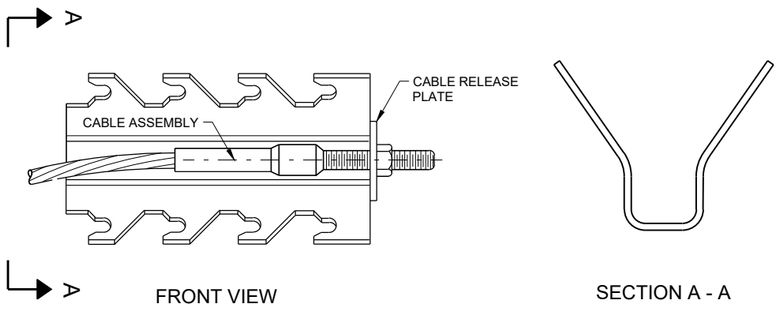
6



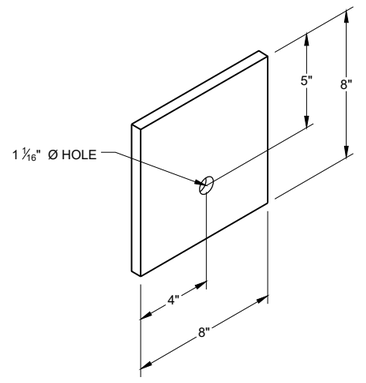
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

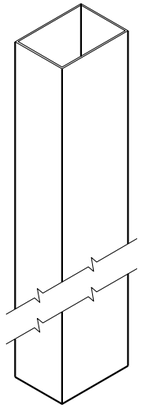
6

SDD 14B44 - 04b

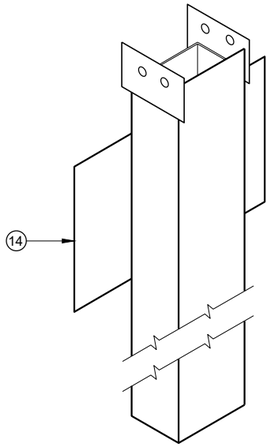
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

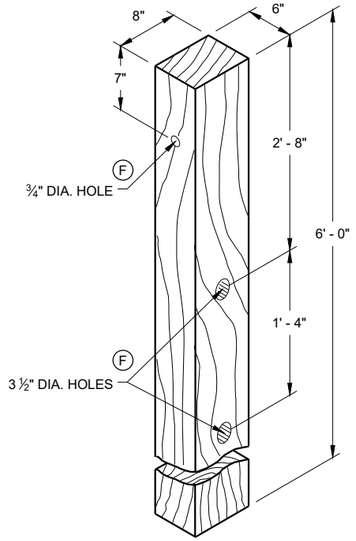
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



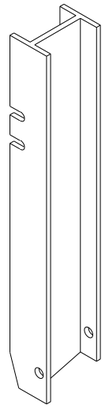
UPPER POST NO. 1 (1) (E)



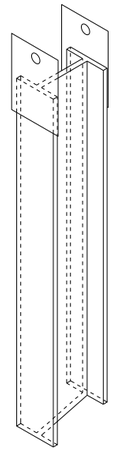
LOWER POST NO. 1 (2) (E)



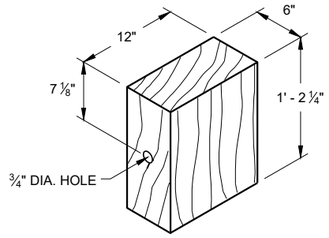
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



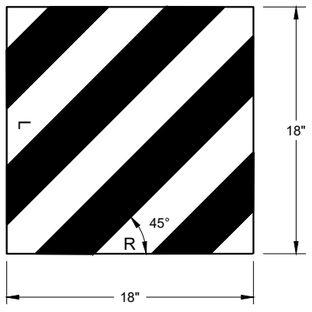
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

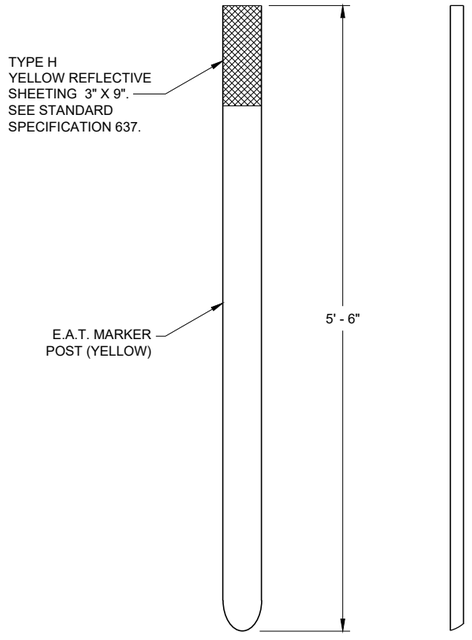


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



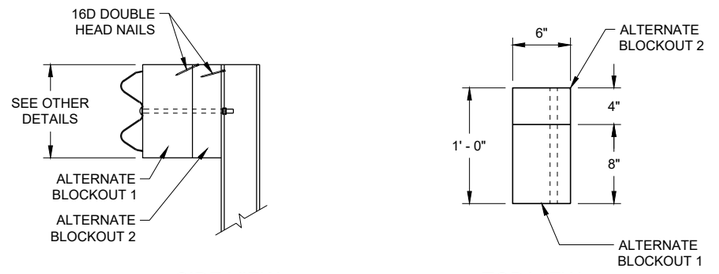
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

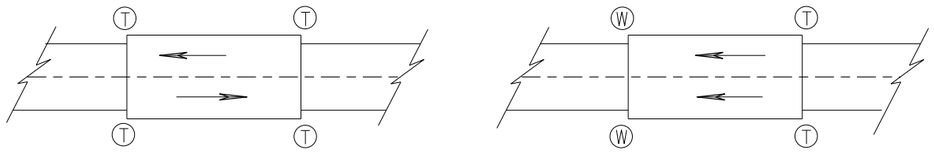
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

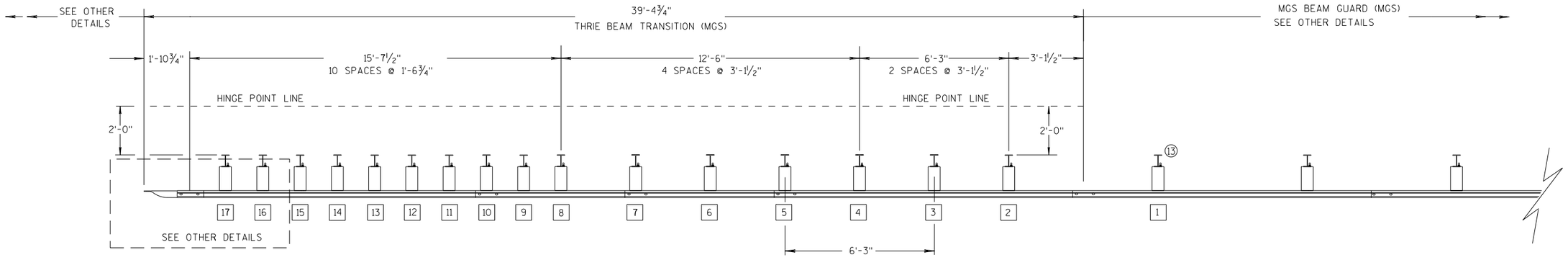
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

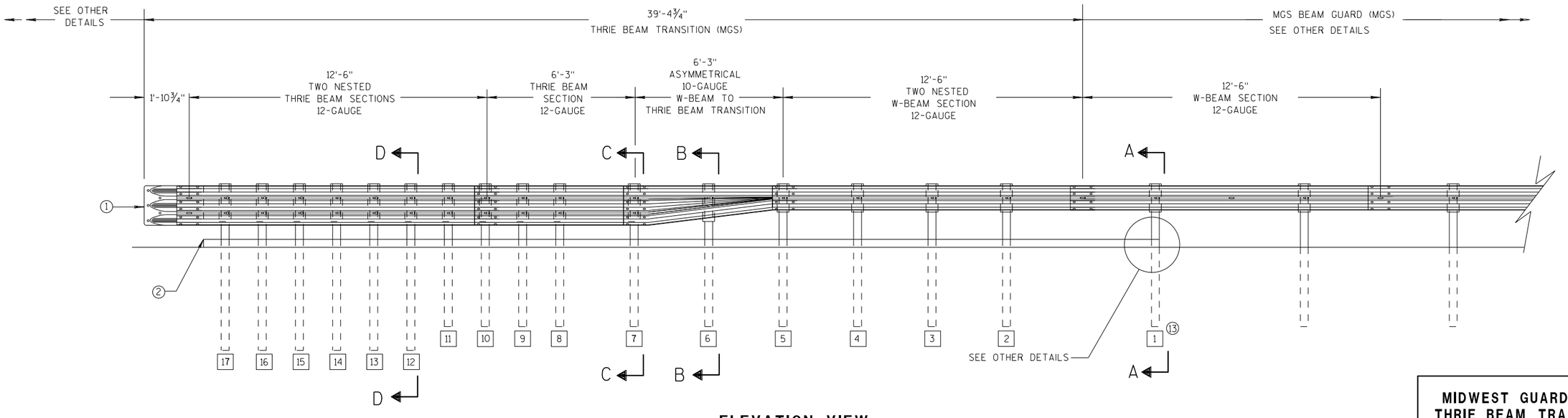
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 230

6

S.D.D. 14 B 45-5a

6

S.D.D. 14 B 45-5a

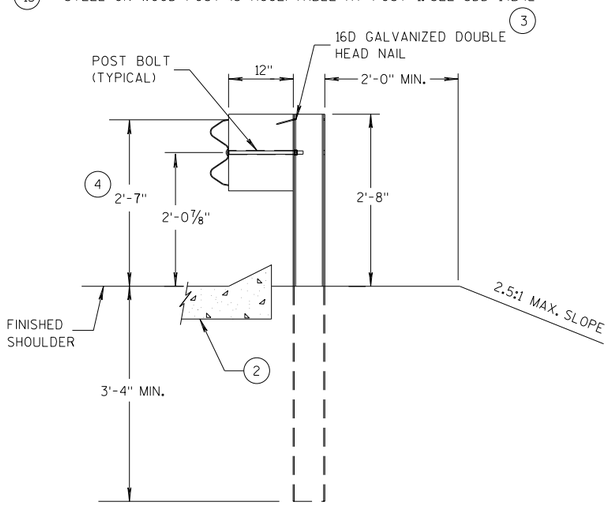
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

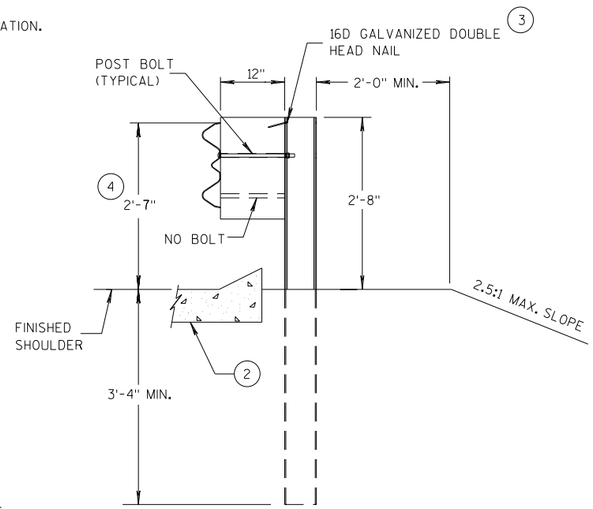
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



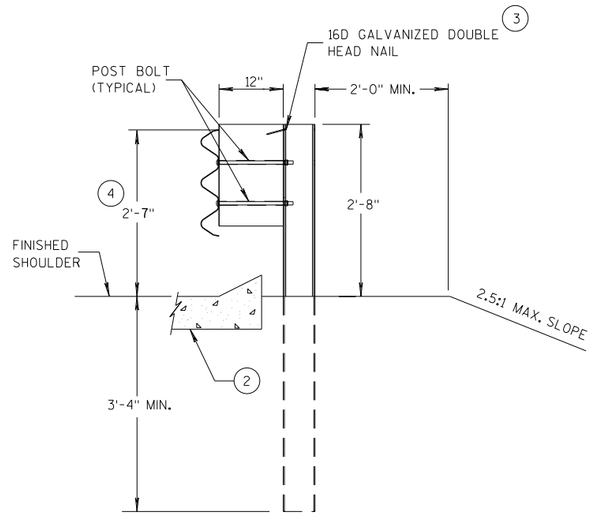
SECTION A-A (13)

POSTS 1-5



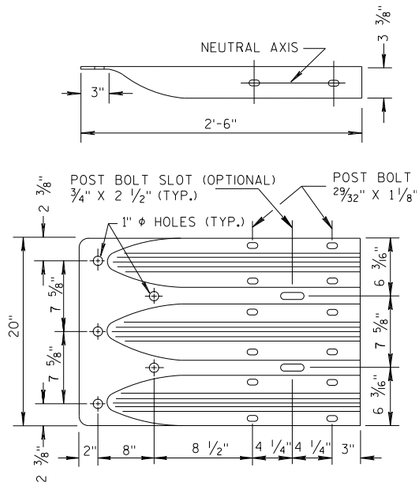
SECTION B-B

POST 6

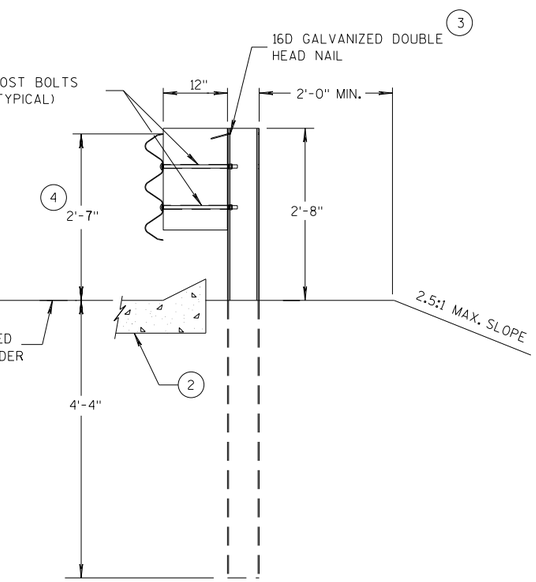


SECTION C-C

POSTS 7-11

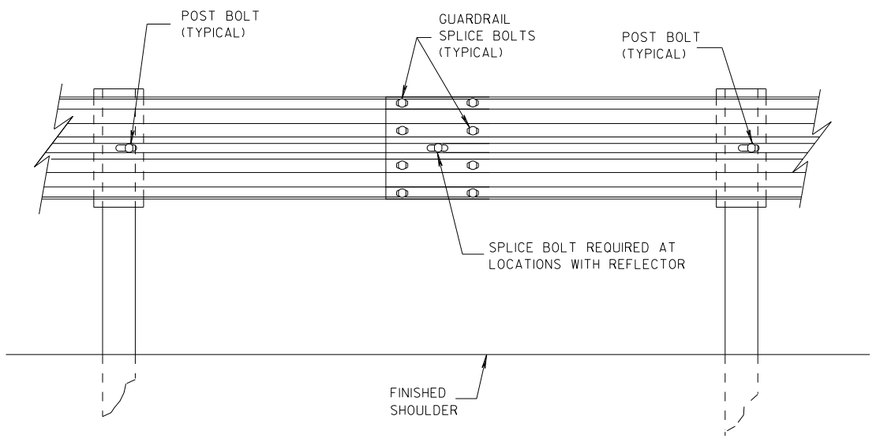


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

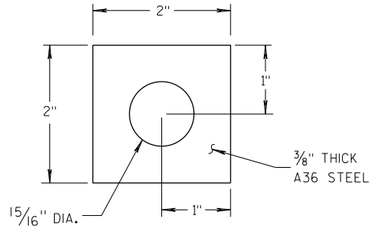
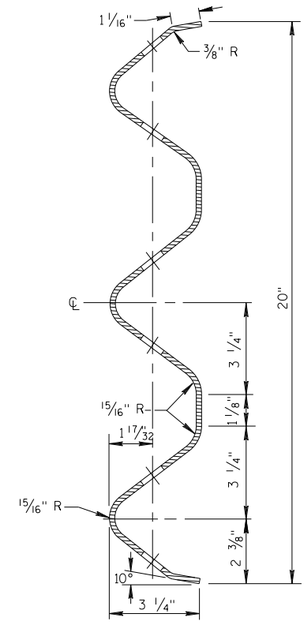


PLATE WASHER DETAIL



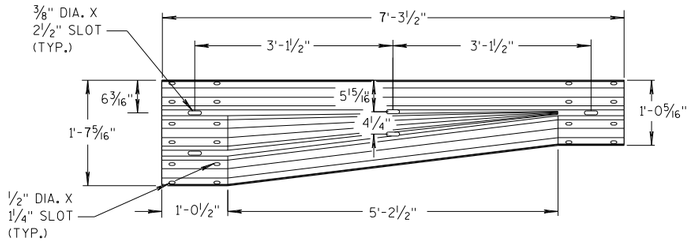
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

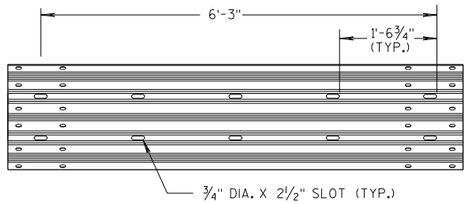
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

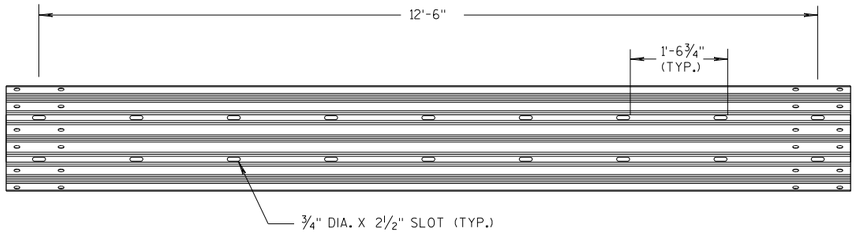
S.D.D. 14 B 45-5b



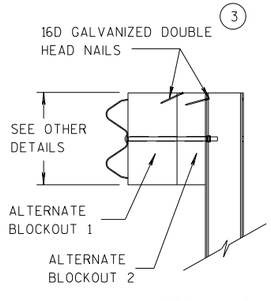
W-BEAM TO THRIE BEAM TRANSITION SECTION



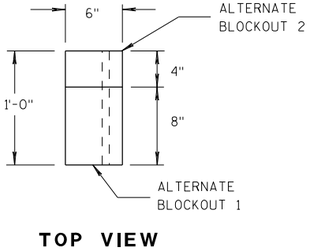
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

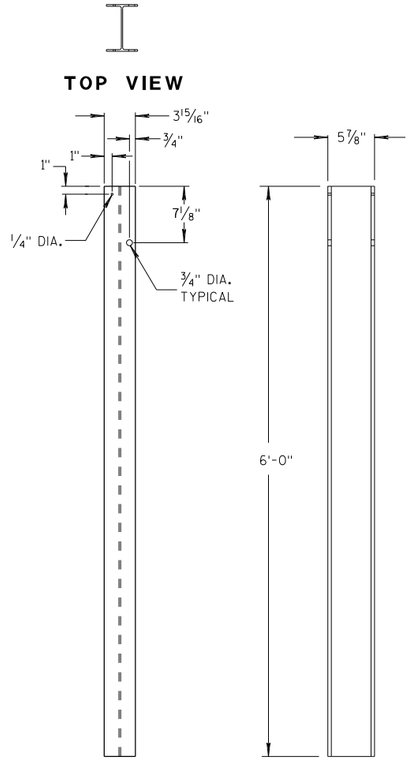


SIDE VIEW



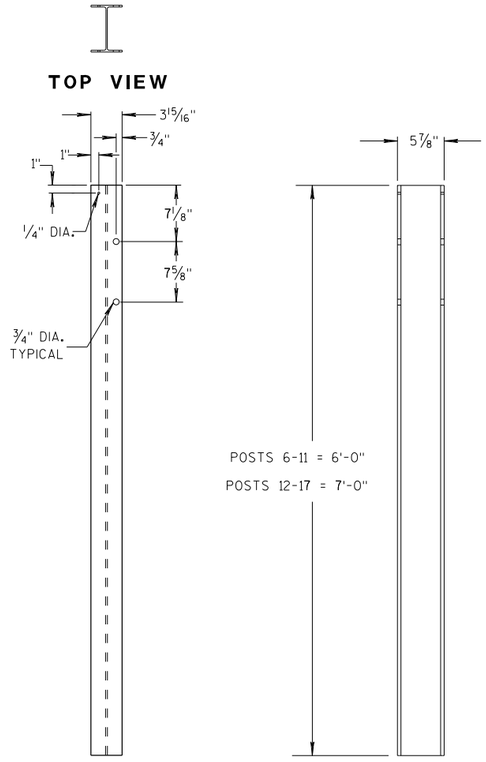
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



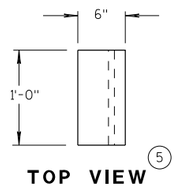
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

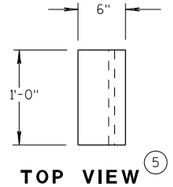


FRONT VIEW SIDE VIEW

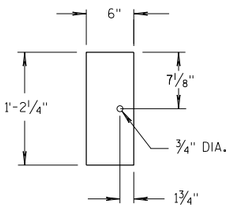
STEEL POSTS 6-17



TOP VIEW (5)

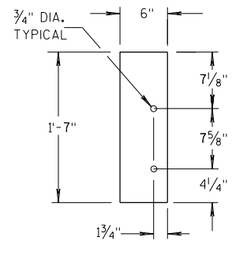


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

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

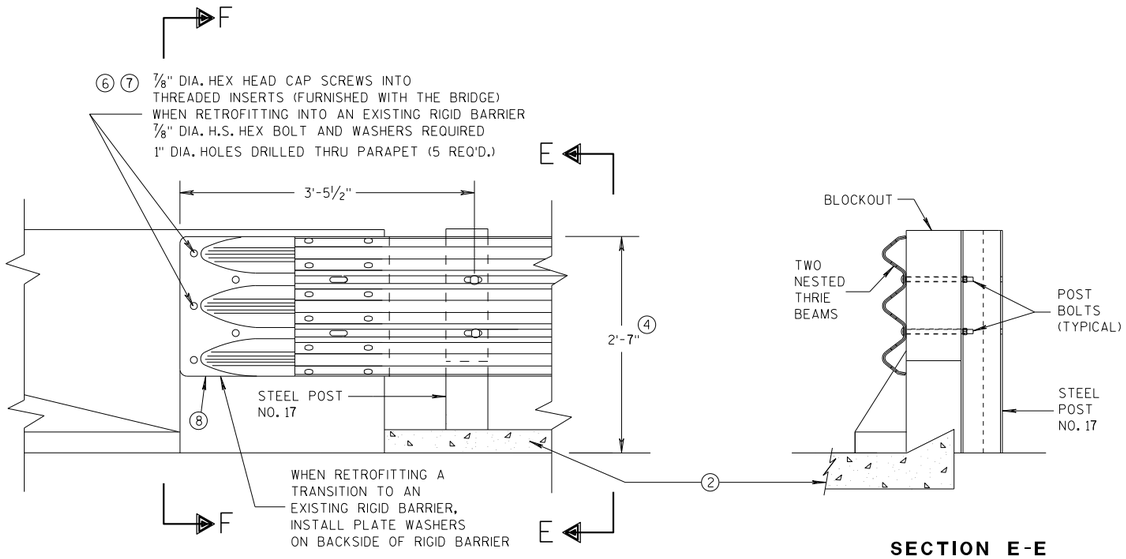
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 232

6
S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

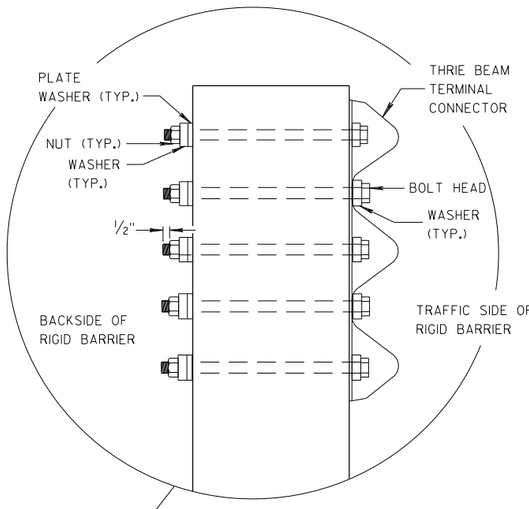
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

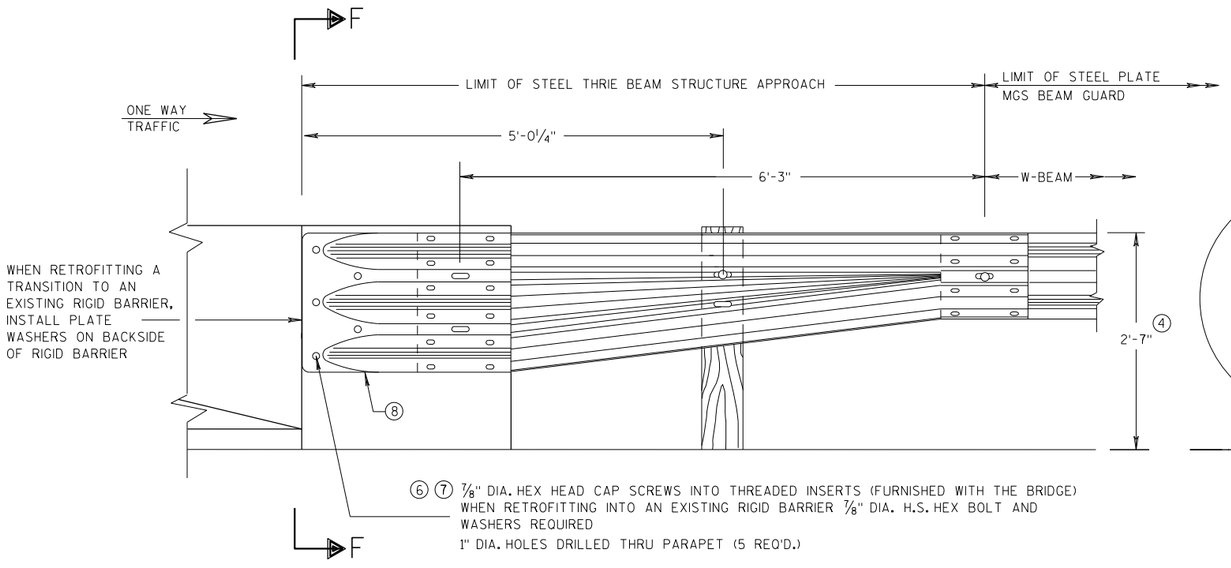
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

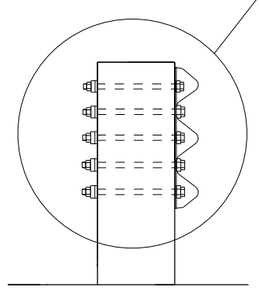
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

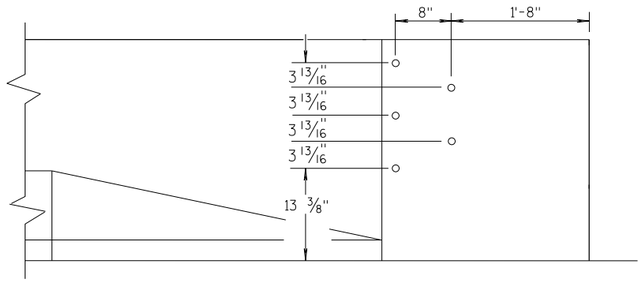




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[UNIT SUPERVIS[NT
FHWA

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GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

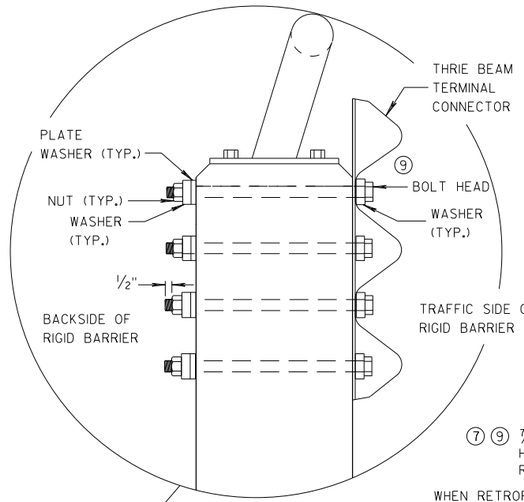
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

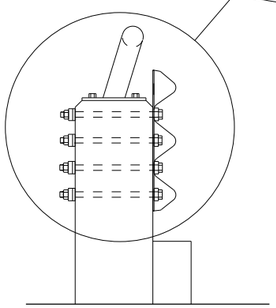
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

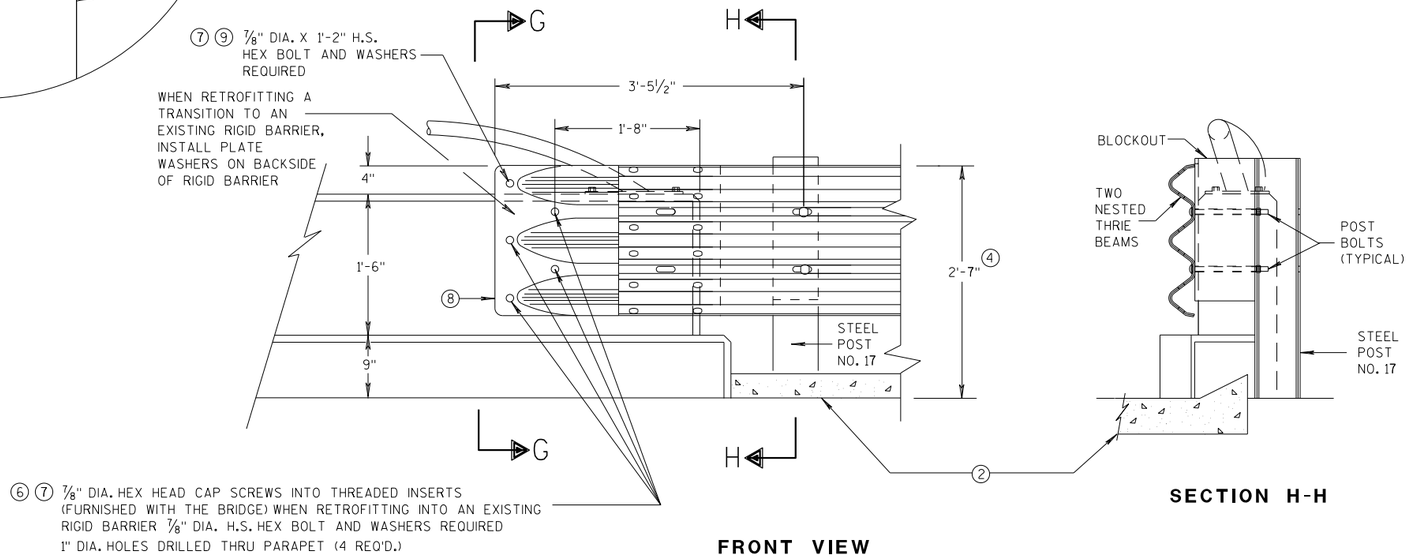
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





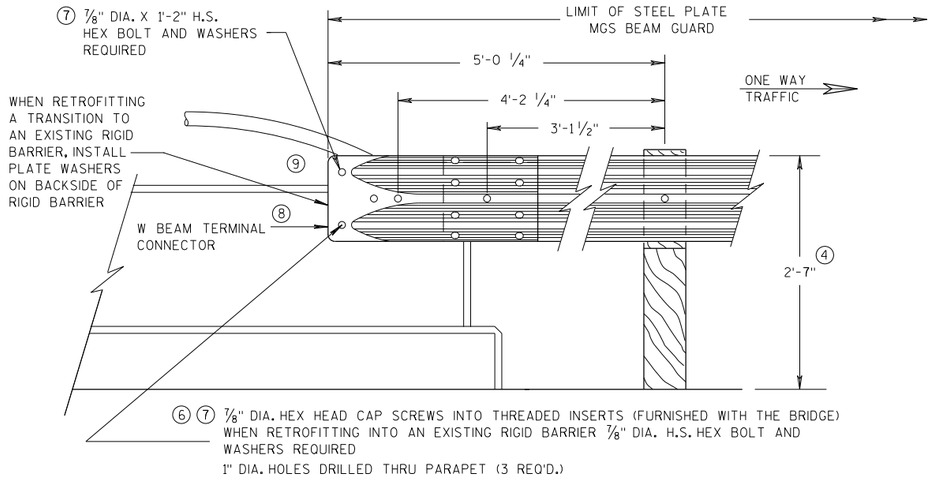
SECTION G-G



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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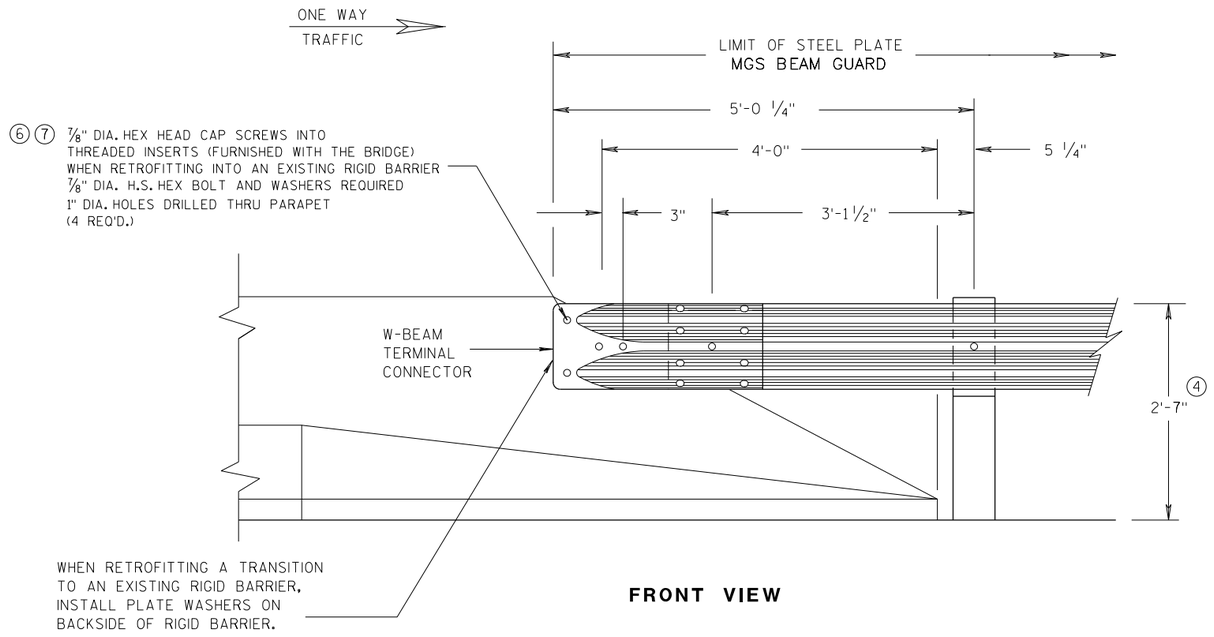

FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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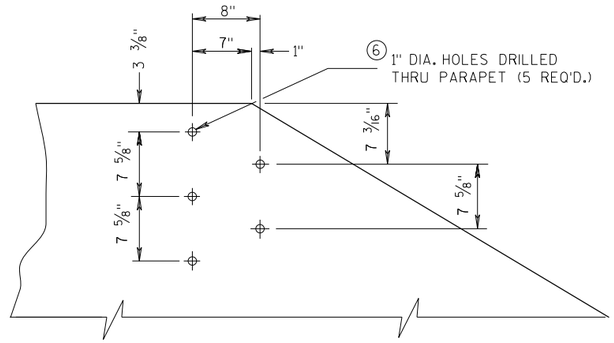
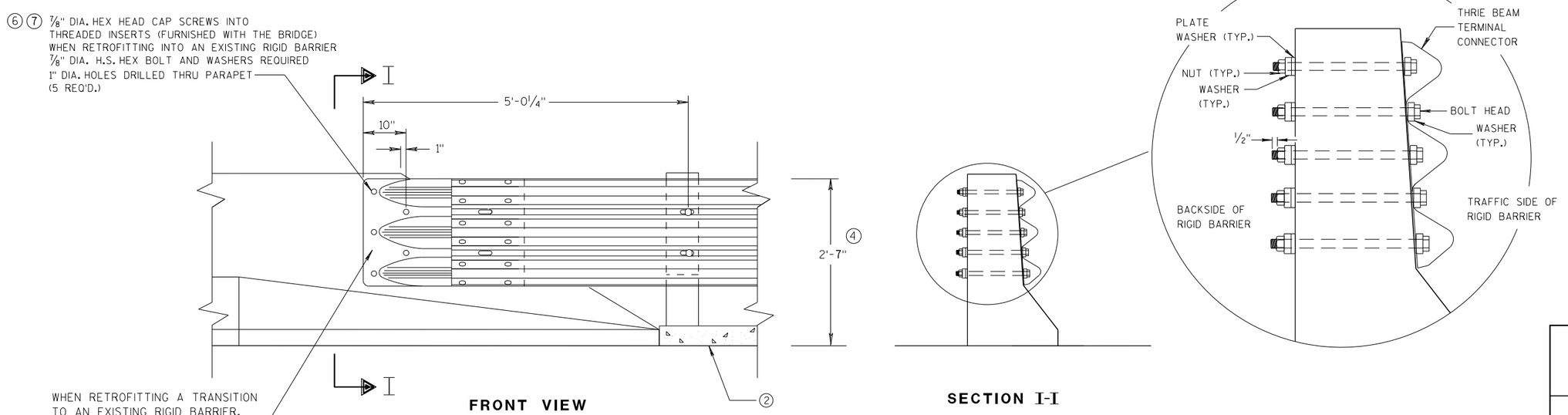


DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW

SECTION I-I

THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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07/2018 — DATE
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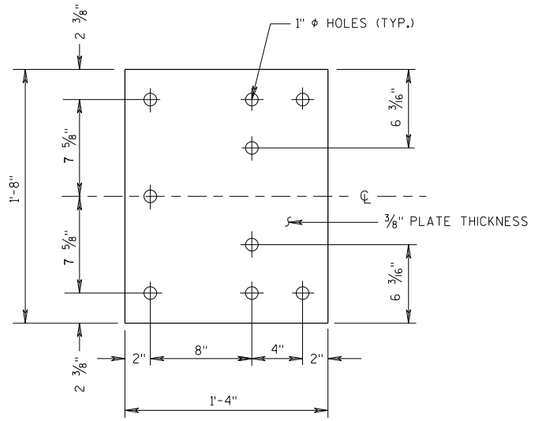
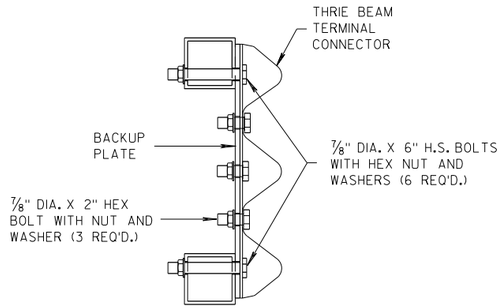
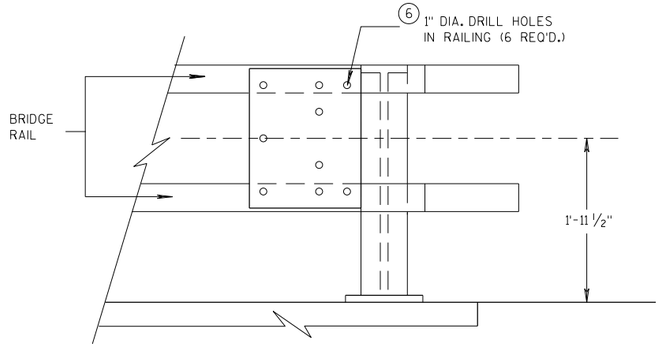


BACK-UP PLATE DETAIL



SECTION J-J

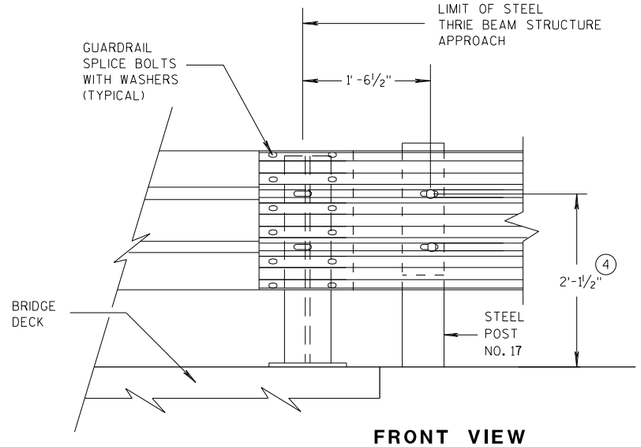


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

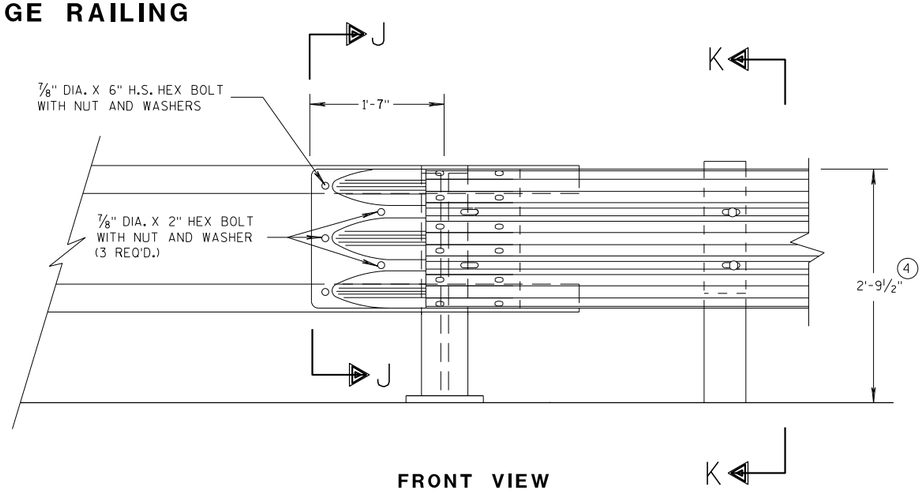
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

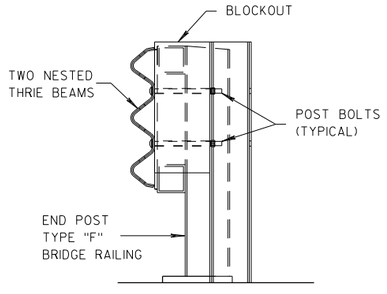


FRONT VIEW

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
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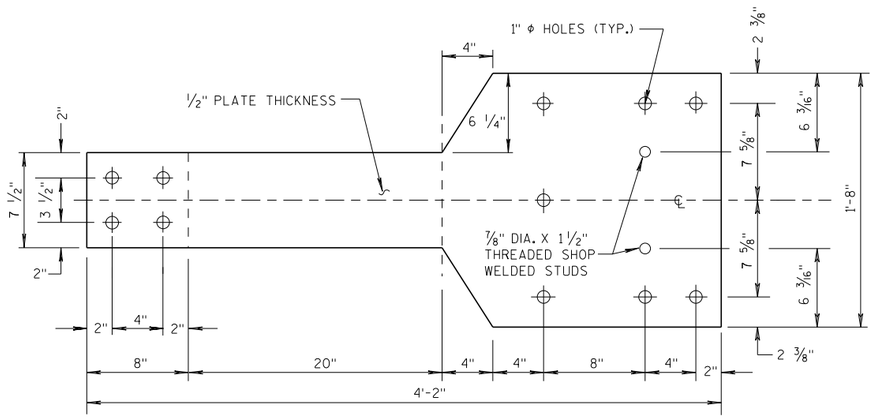
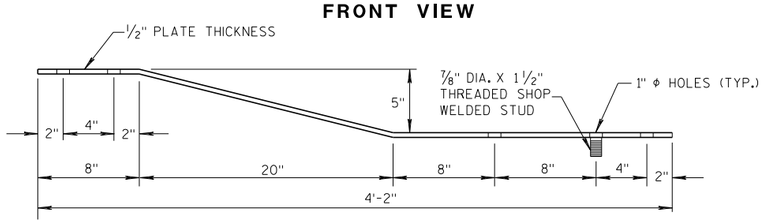
GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

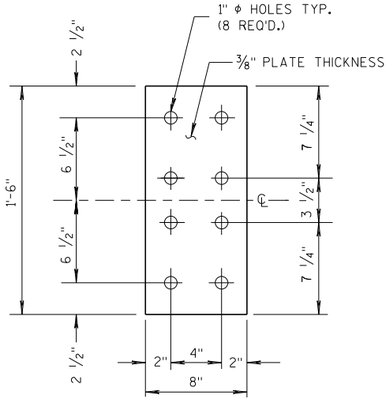


FRONT VIEW



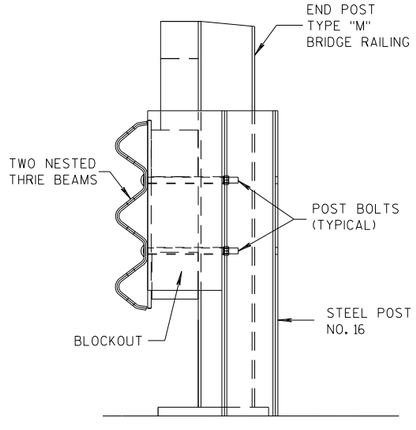
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

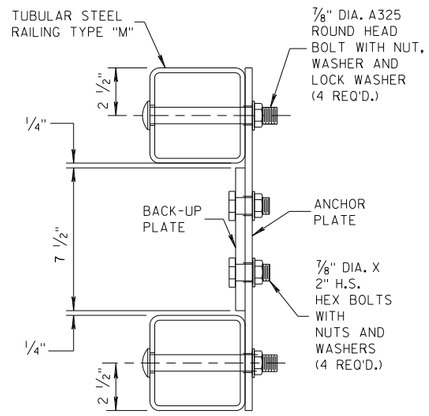


FRONT VIEW

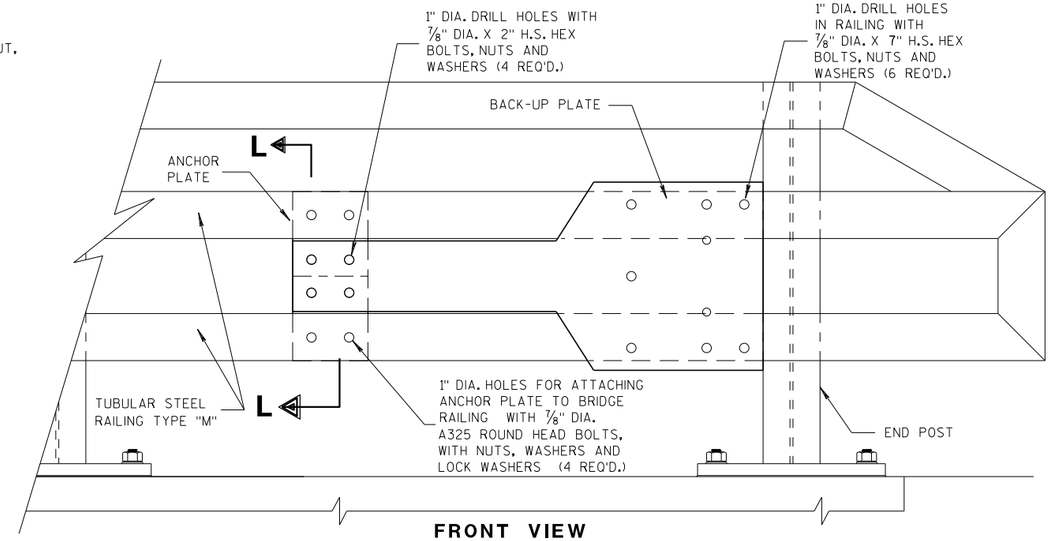
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

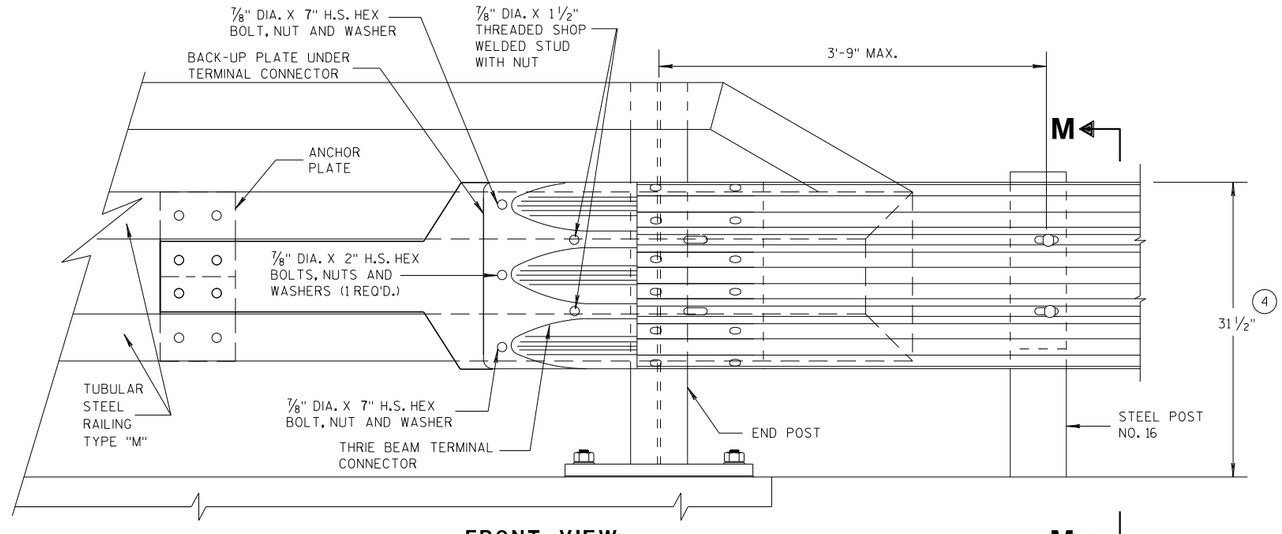


SECTION L-L

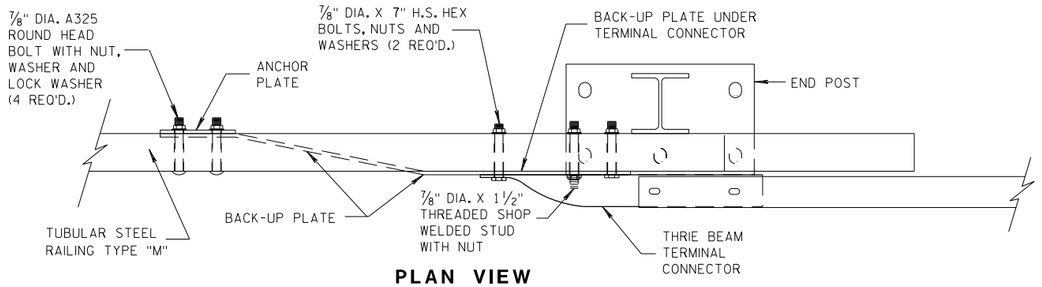


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
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GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

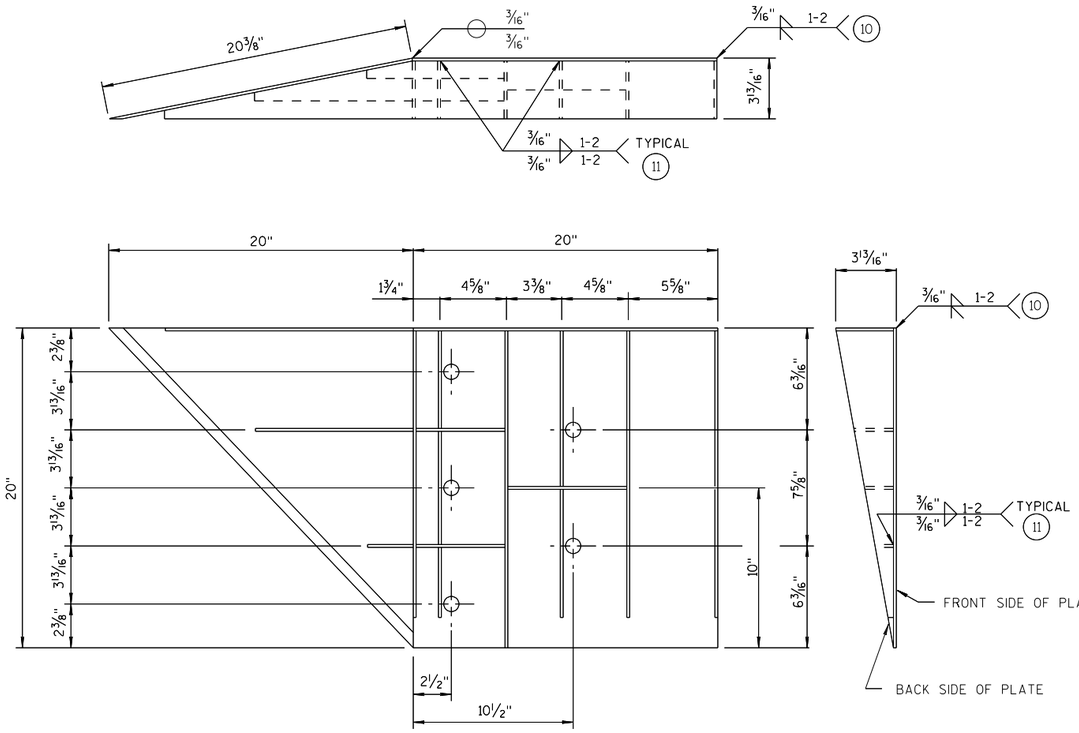
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

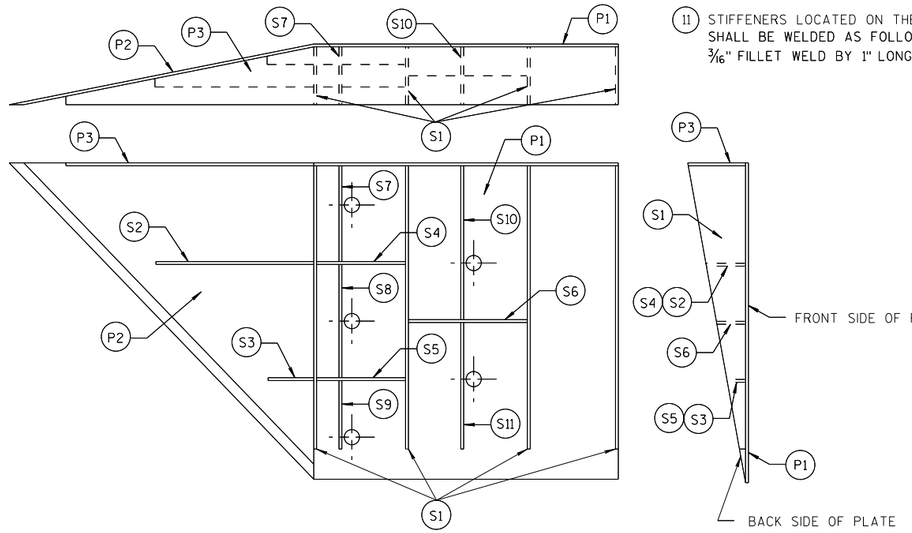


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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UNIT SUPERVI

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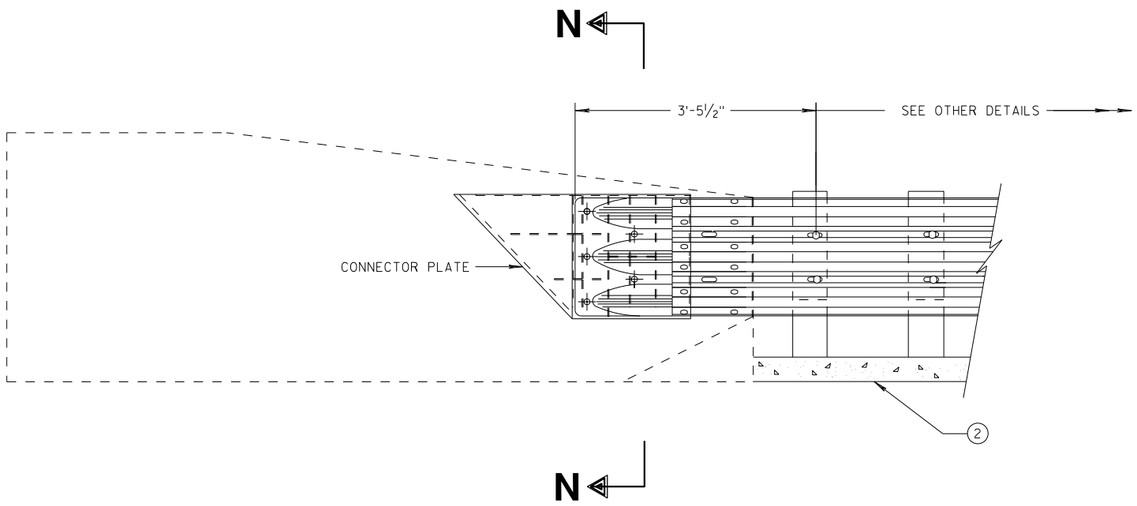
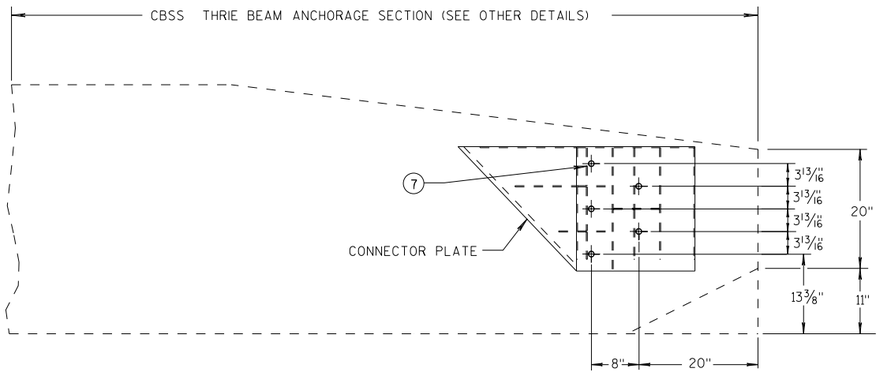


THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



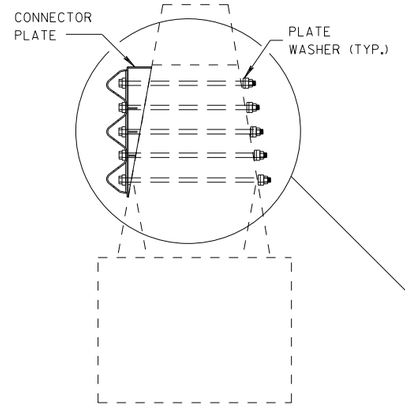
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

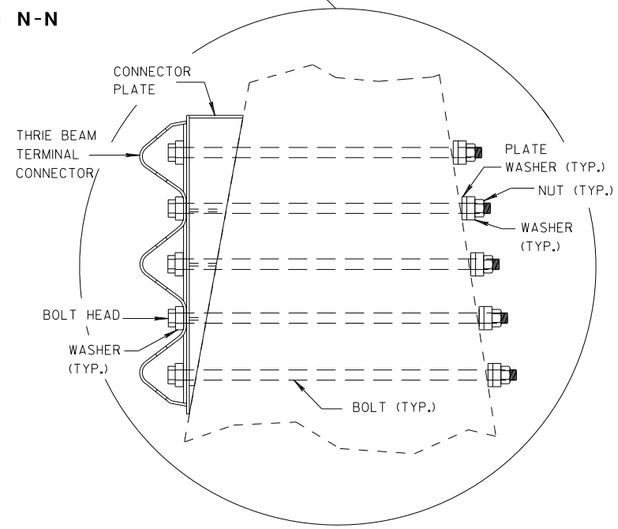
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(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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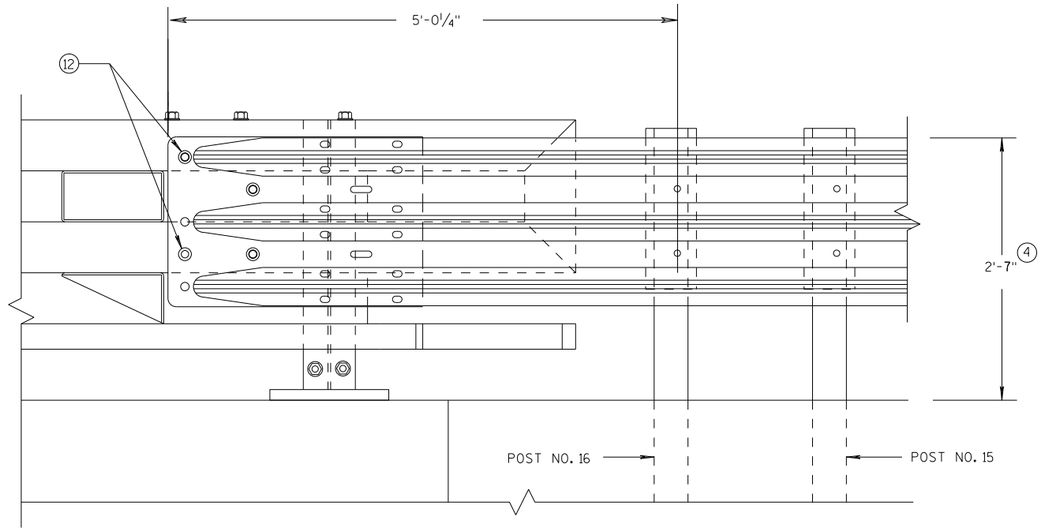
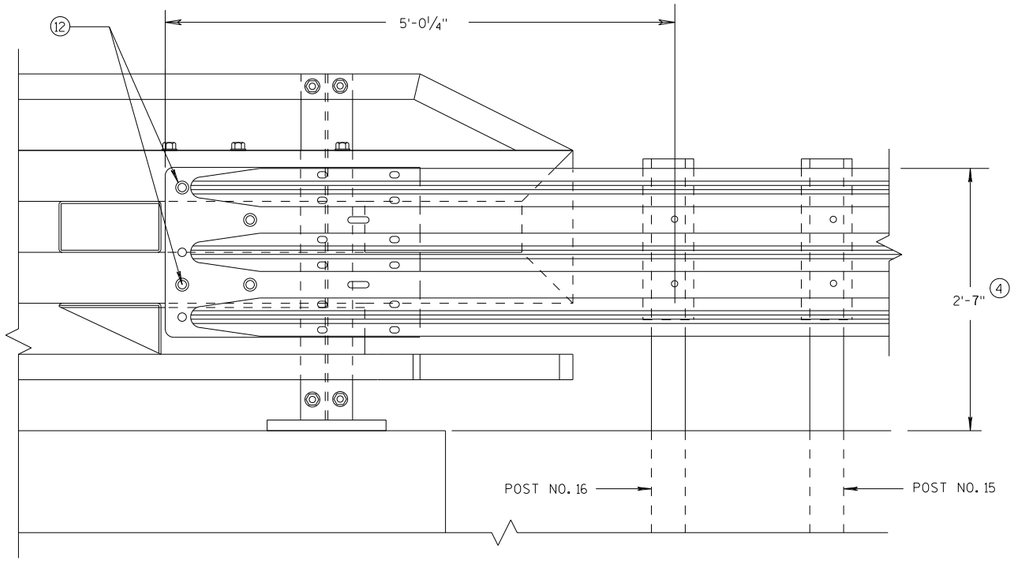


ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

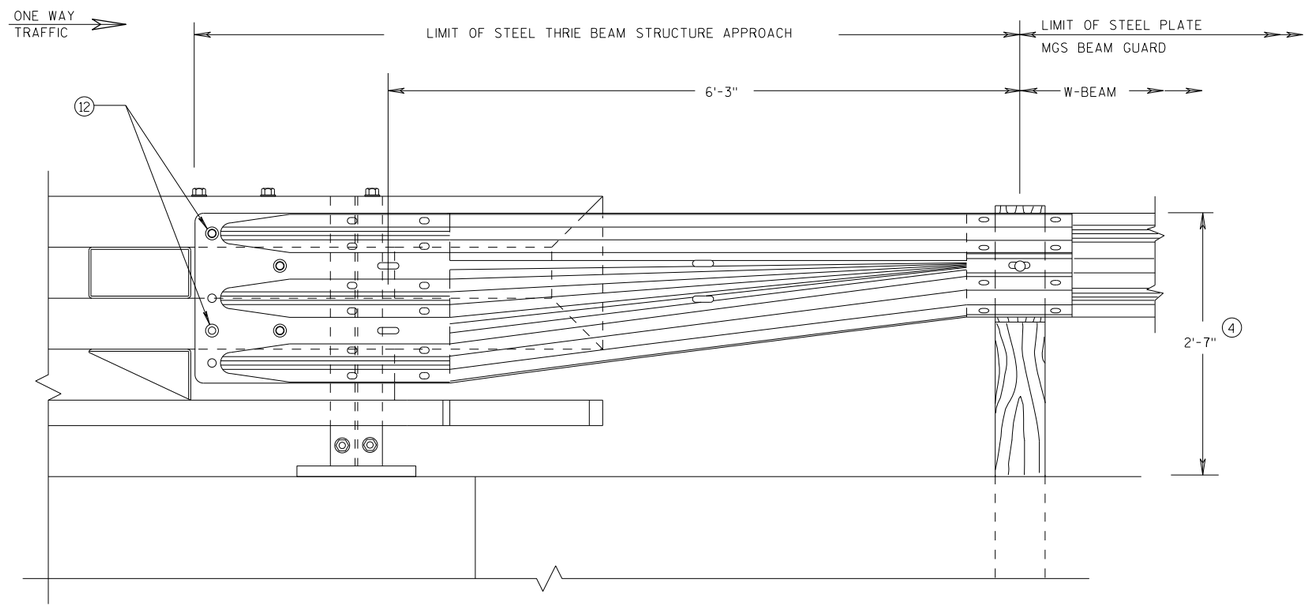
/S/ Rodney Taylor
ROADWAY STANDARDS D 240 NT
UNIT SUPERVIS

6

S.D.D. 14 B 45-5k

6

S.D.D. 14 B 45-5k



FRONT VIEW

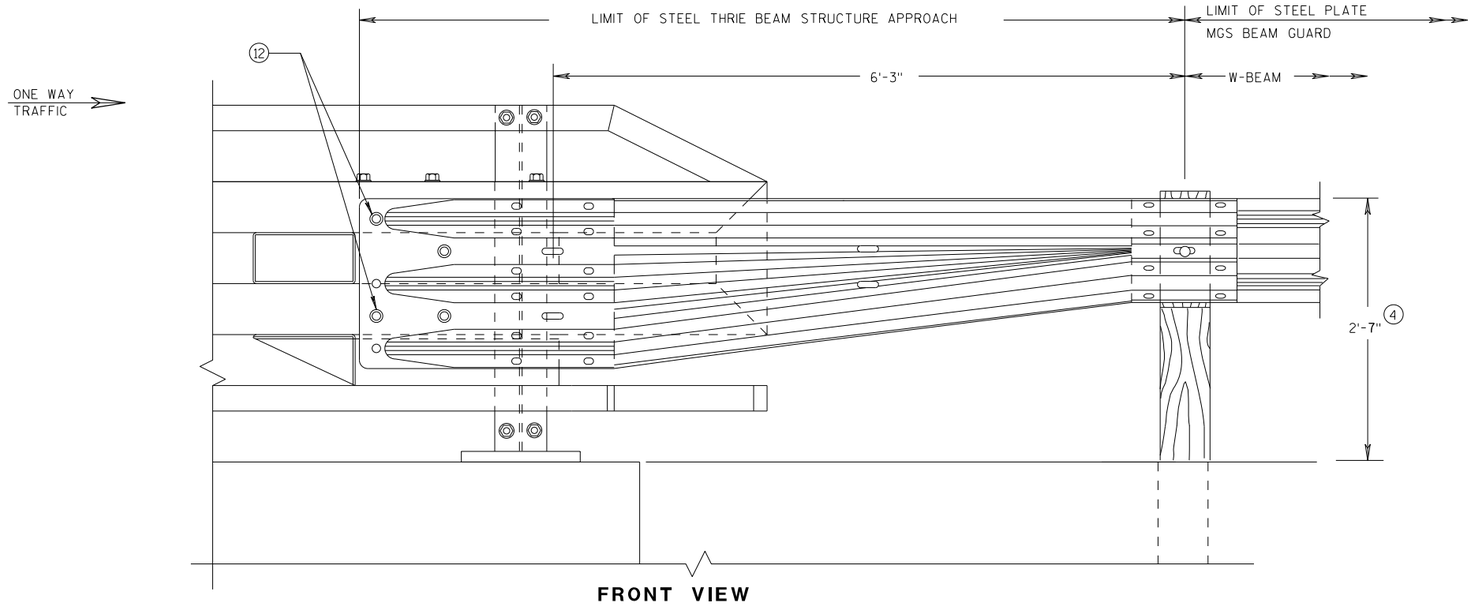
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D UNIT SUPERVIS
NT
FHWA

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S.D.D. 14 B 45-5L

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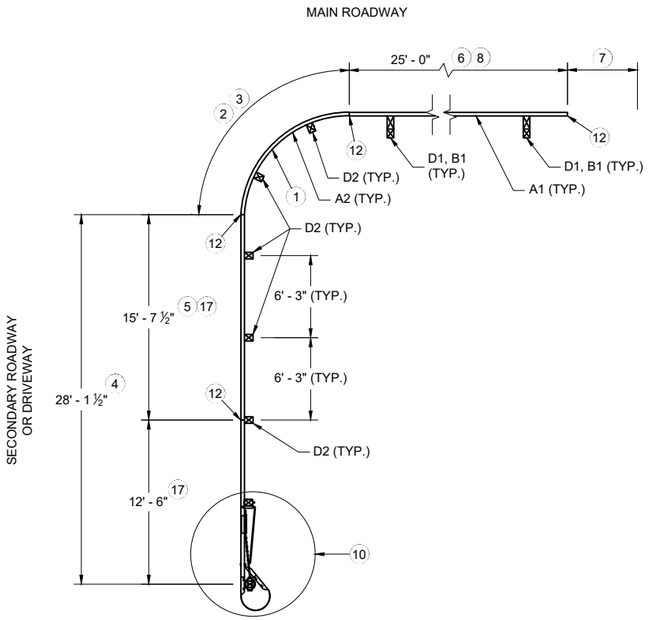
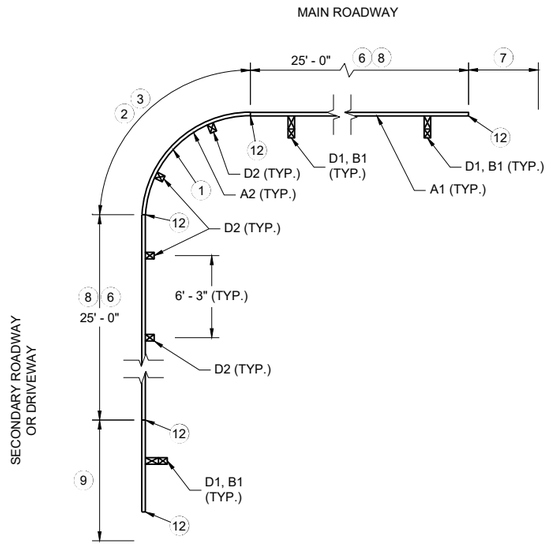
S.D.D. 14 B 45-5L



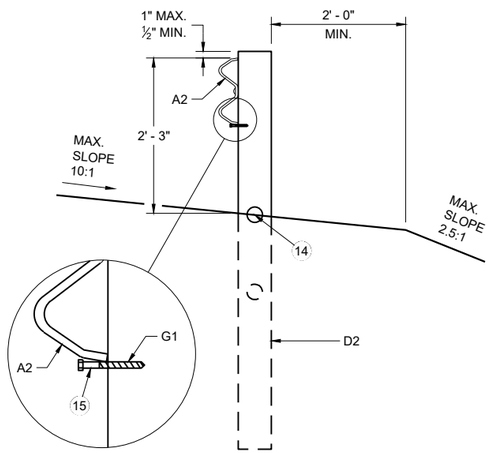
PLAN VIEW

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

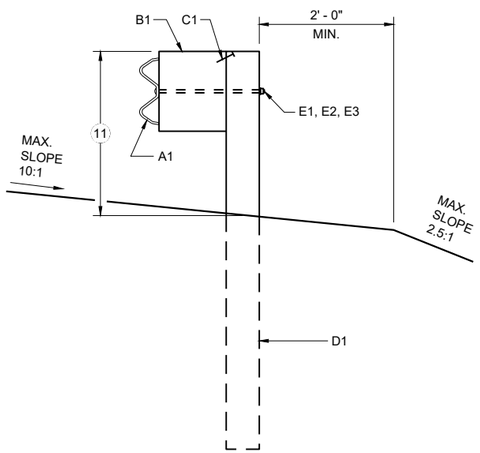


PLAN VIEW

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



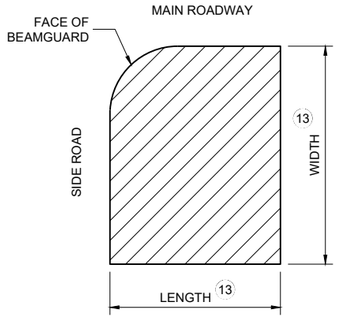
CONTROLLED RELEASE TERMINAL POST (CRT) IN RADIUS



BEAM GUARD POSTS IN HEIGHT TRANSITION

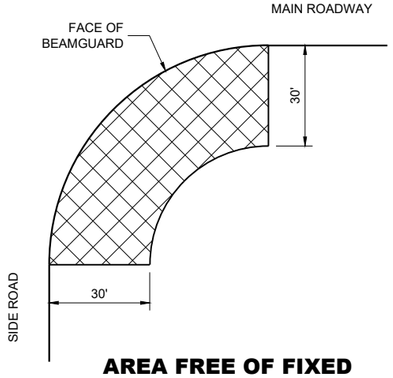
TABLE FOR RADIUS OF 32' AND LESS

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

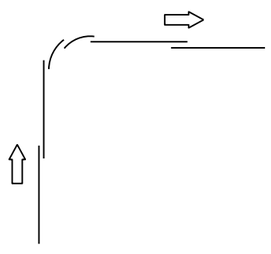


16

AREA FREE OF FIXED OBJECTS FOR RADIUS 32' AND LESS



AREA FREE OF FIXED OBJECTS FOR RADIUS GREATER THAN 32'



LAP SPLICE DETAIL

GENERAL NOTES

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

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

GALVANIZE PARTS AFTER FABRICATION.

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

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

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

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

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

DRAWINGS ARE NOT TO SCALE.

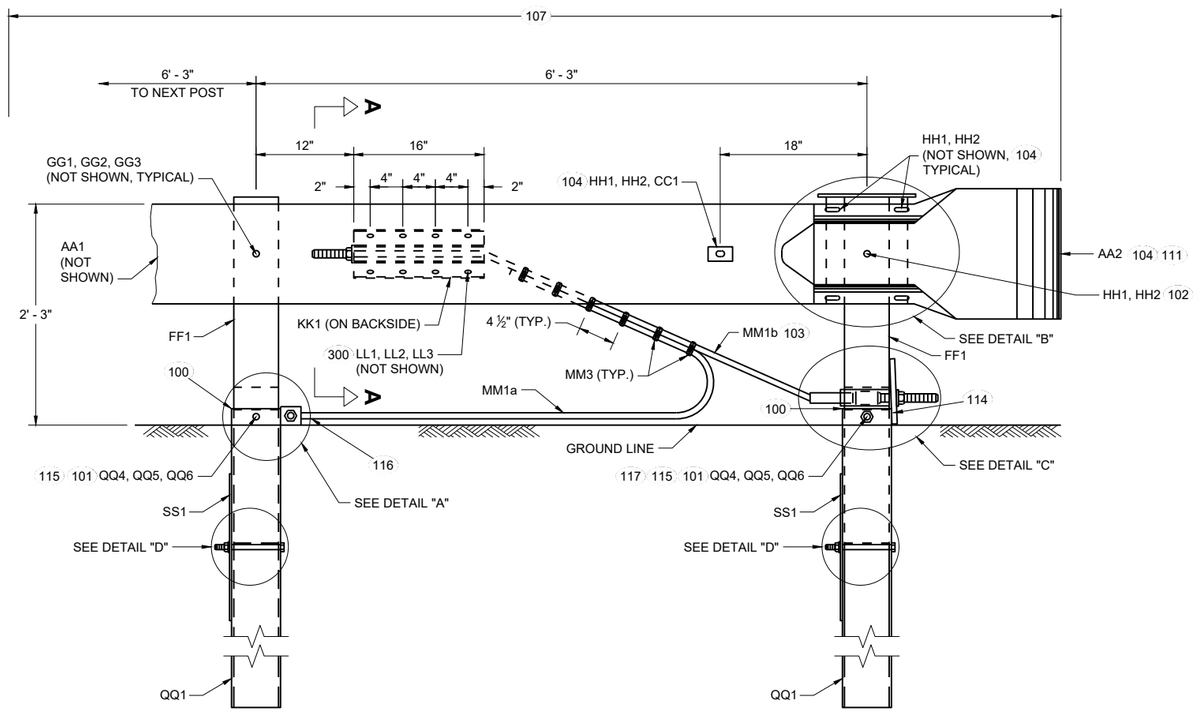
1. RADIUS MEASURE FROM INSIDE OF RAIL. LENGTH OF BEAM GUARD SHORT RADIUS GUARD MEASURED ALONG TRAFFIC SIDE OF RAIL. RADIUS BETWEEN 8 FEET TO 150 FEET. SEE PLAN FOR REQUIRED RADIUS. BEAM GUARD RAIL IN RADIUS IS SHOP BENT. ODD RAIL LENGTH OR FIELD CUTS MAY BE REQUIRED.
2. CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE USED IN THE RADIUS. CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE SPACED 6' - 3". SEE PLAN FOR NUMBER OF CONTROLLED RELEASE (CRT) POSTS.
3. WITHIN RADIUS BEAM GUARD RAILS ARE NOT BOLTED TO POSTS. BEAM GUARD RAIL IS RESTED ON TOP OF LAG SCREW.
4. MINIMUM LENGTH OF BEAM GUARD ALONG SIDE ROAD OR DRIVEWAY TO INSTALL SHORT RADIUS TERMINAL. BEAM GUARD IS PAID WITH BEAM GUARD ITEM.
5. ODD LENGTH OF BEAM GUARD REQUIRED TO INSTALL SHORT RADIUS TERMINAL.
6. MINIMUM AMOUNT OF BEAM GUARD TO BE INSTALLED PRIOR TO TRANSITION TO RIGID BARRIER. ADDITIONAL BEAM GUARD, OR EAT. BEAM GUARD PAID FOR WITH BEAM GUARD ITEM. SEE PLANS FOR MORE DETAIL.
7. BEAM GUARD, EAT, OR TRANSITION TO RIGID BARRIER. SEE PLAN.
8. TOP OF BEAM GUARD BY THE RADIUS IS 27". HEIGHT OF BEAM GUARD IS 31" BY TRANSITION TO RIGID BARRIER, ADDITIONAL BEAM GUARD OR EAT.
9. ADDITIONAL BEAM GUARD, EAT OR TRANSITION TO RIGID BARRIER. BEAM GUARD SHOWN. SEE PLAN FOR DETAILS.
10. SHORT RADIUS TERMINAL (SEE OTHER DETAILS).
11. HEIGHT VARIES. SEE NOTE 8 AND 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)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

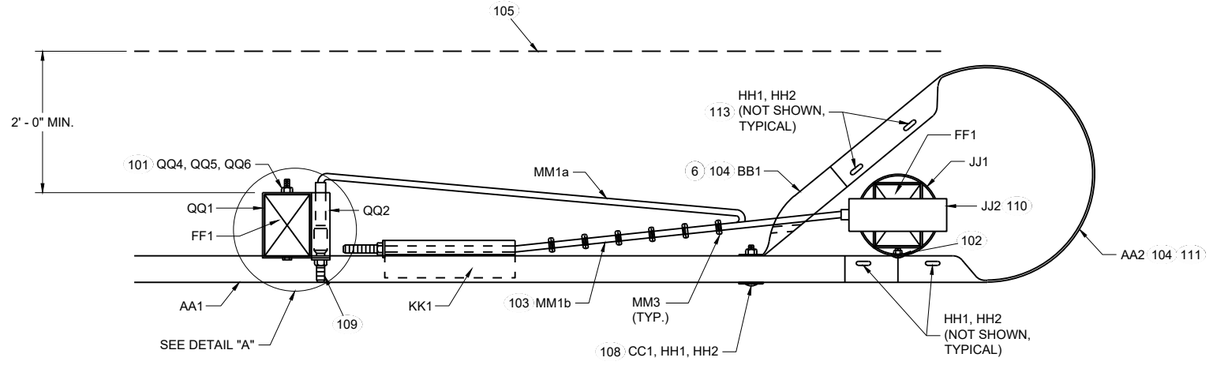
6

SDD 14B53-03a



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.

106 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.

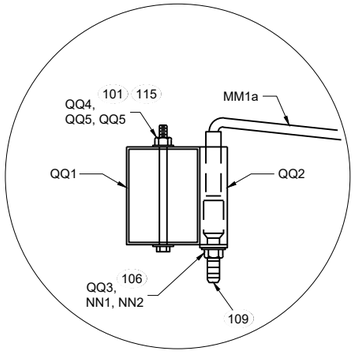
113 FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA2 TO BB1.

114 NO MATERIAL IS TO BE PLACED AGAINST THE VERTICAL FACES OF BEARING PLATE.

115 PREVENT OR REMOVE MATERIALS THAT BLOCK ACCESS TO BOLTS FOR POST AND SOIL TUBE.

116 PREVENT OR REMOVE MATERIALS THAT BLOCK ACCESS TO BOLT. PLACE CABLE ON TOP OF MATERIAL.

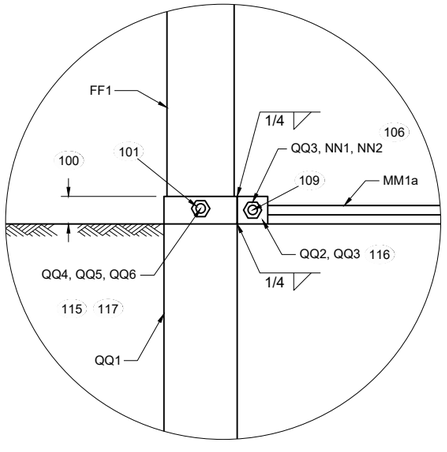
117 ONE WASHER BETWEEN BOLD HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.



TOP VIEW

DETAIL "A"

(WOOD BREAKAWAY AND BEAM GUARD RAIL POSTS NOT SHOWN)



PROFILE VIEW

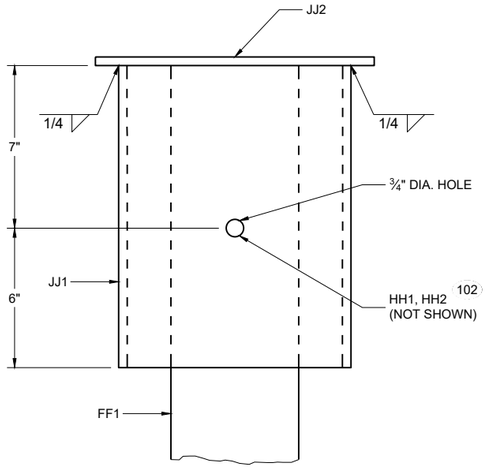
DETAIL "A"

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

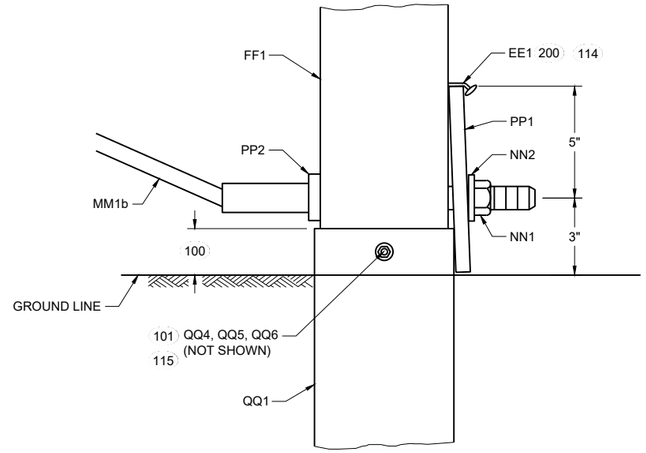
GENERAL NOTES

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



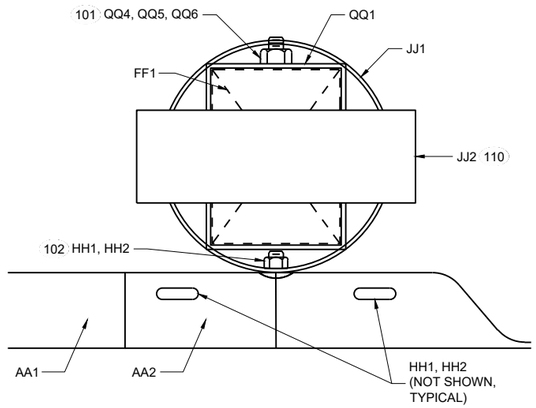
PROFILE VIEW

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



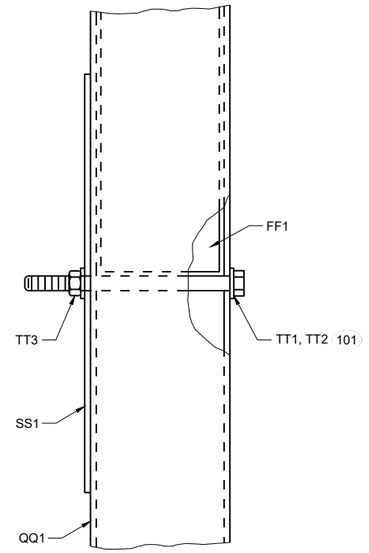
PROFILE VIEW

DETAIL "C"



PLAN VIEW

DETAIL "B"
STEEL PIPE ASSEMBLY



PROFILE VIEW

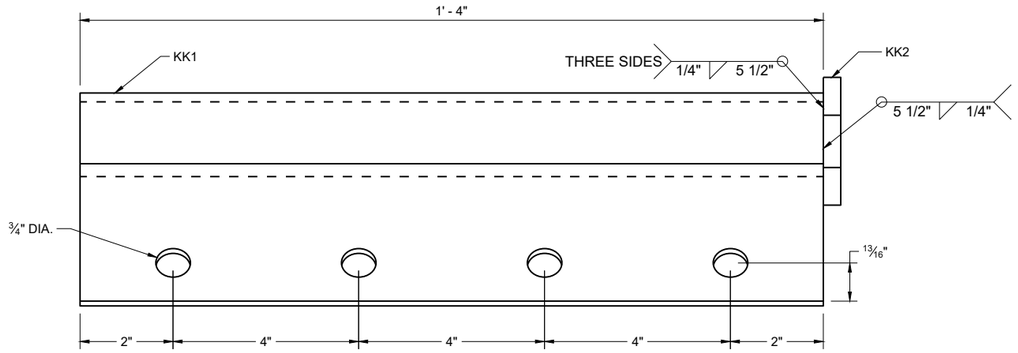
DETAIL "D"

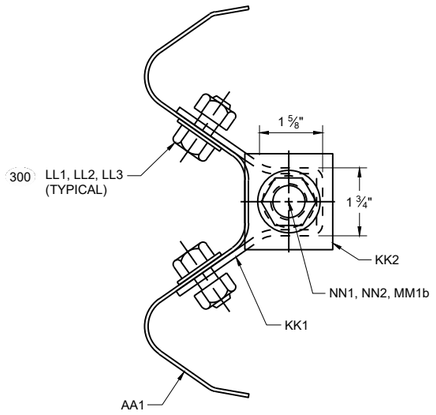
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

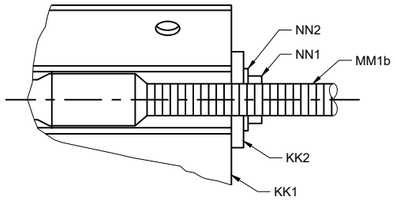
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

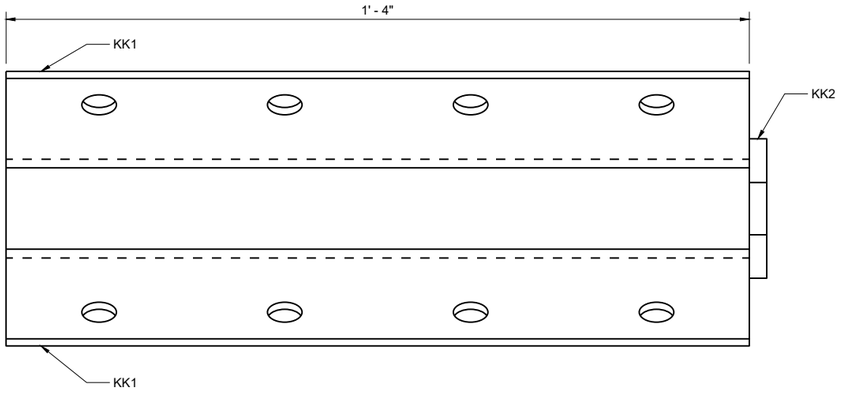
300 WASHERS REQUIRED BETWEEN BOLT HEAD AND BEAM GUARD RAIL AND BETWEEN NUT AND ANCHOR BRACKET. EIGHT (8) LL1 AND LL3 REQUIRED. SIXTEEN (16) LL2 REQUIRED.

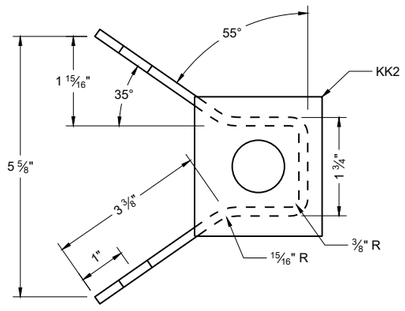




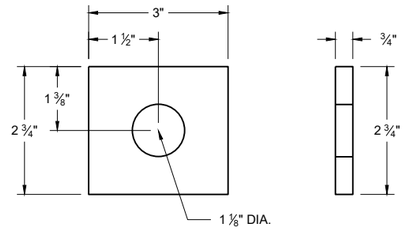


SECTION A - A





ANCHOR BRACKET (KK1, KK2)



ANCHOR BRACKET BEARING PLATE (KK2)

6

6

SDD 14B53-03d

SDD 14B53-03d

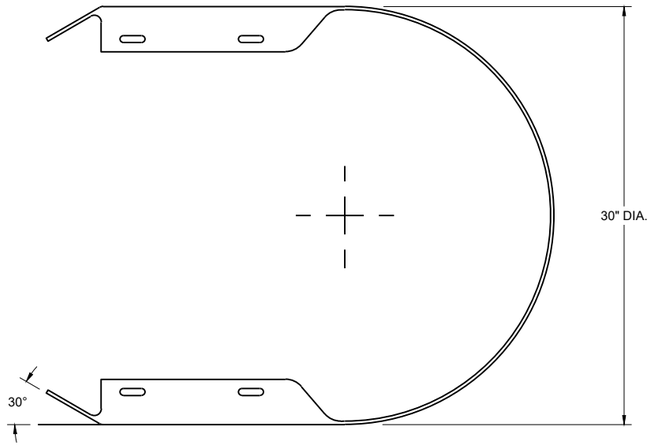
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

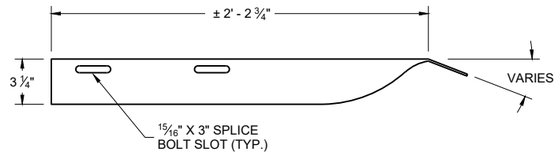
GENERAL NOTES

400 CROSS SECTION OF PART IS TO FIT OVER AA1 .

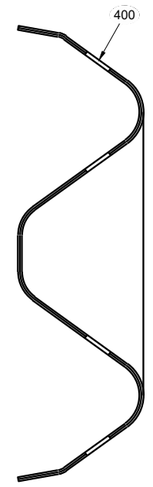
401 CROSS SECTION OF PART IS TO FIT OVER OR UNDER AA1 .



TOP VIEW

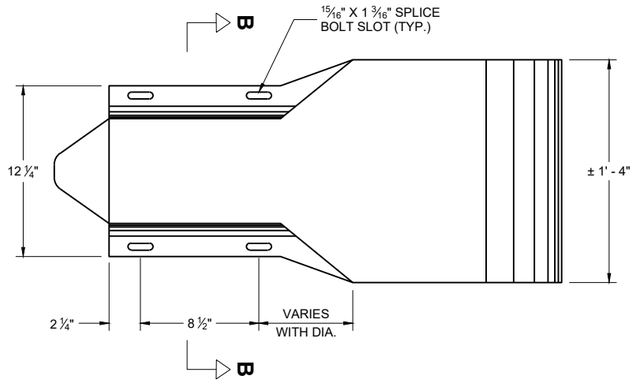


TOP VIEW



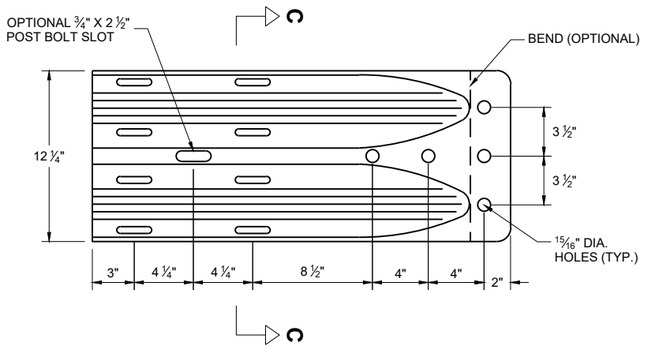
SECTION B -B

SECTION C -C



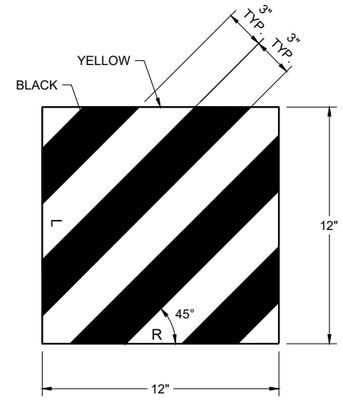
PROFILE VIEW

W BEAM
END SECTION BUFFER (AA2)



PROFILE VIEW

W BEAM
TERMINAL CONNECTOR (BB1)

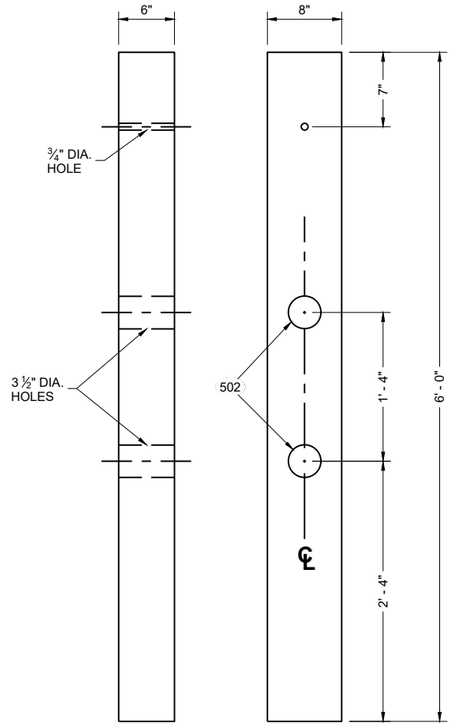


REFLECTIVE SHEETING (UU1, UU2)

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

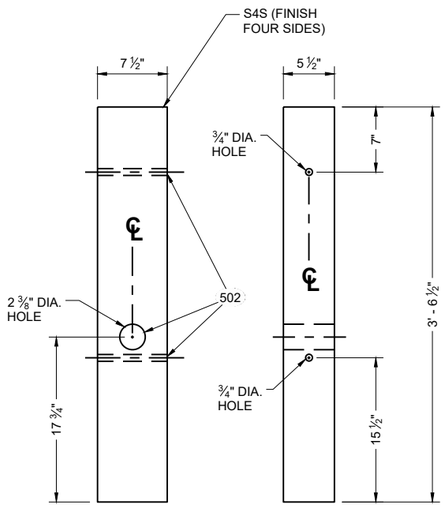
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B53-03e



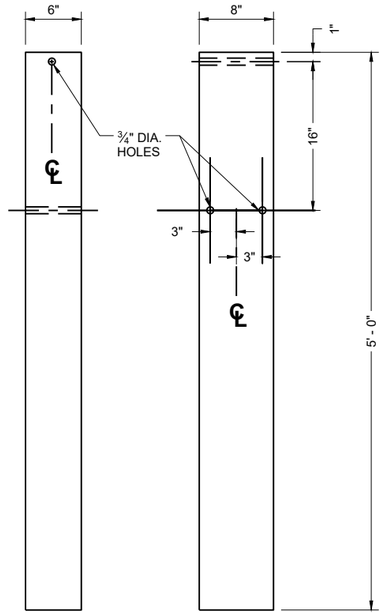
FRONT VIEW SIDE VIEW

CONTROLLED RELEASE POST (CRT) (DD2)



FRONT VIEW SIDE VIEW

WOOD BREAKAWAY POST (FF1)



FRONT VIEW SIDE VIEW

FOUNDATION TUBE (QQ1) 500

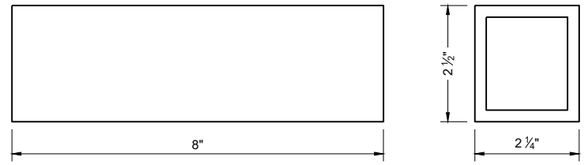
GENERAL NOTES

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

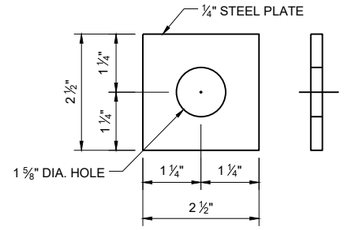
501 FOR MM1a THREADED STUD ONLY REQUIRED ON ONE END. SWAGED FITTING REQUIRED.

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

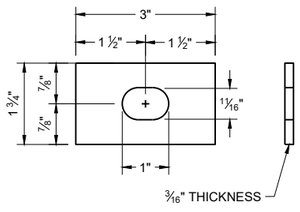
503 MM1a MAY HAVE ONE THREADED STUD 4 INCHES LONG. SEE NOTE 109 .



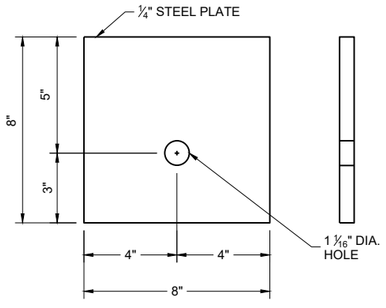
FOUNDATION TUBE - ANCHOR CABLE TUBE (QQ2)



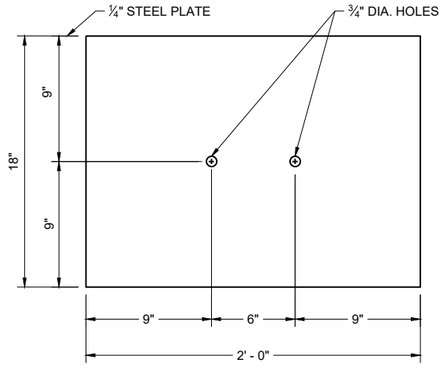
ANCHOR CABLE TUBE END PLATE (QQ3)



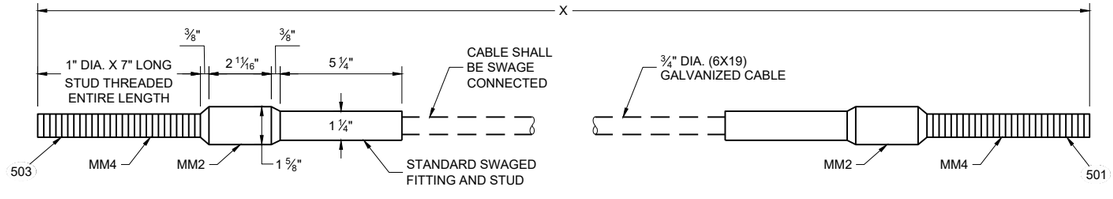
RECTANGULAR PLATE WASHER (CC1)



BEARING PLATE (PP1)



SOIL PLATE (SS1)



CABLE ASSEMBLY (MM1a, MM1b)

"X" LENGTH

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B53-03f

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	BEAM GUARD RAIL	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
A2	BEAM GUARD RAIL - SHOP BENT	INDICATE ON BACK OF RAIL THE RADIUS THAT RAIL WAS BENT TO. SHOP BEND RADIUS IS TO THE NEAREST FOOT. FOLLOW AASHTO M180 ON HOW TO MARK RADIUS INFORMATION.	
		AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
B1	BLOCK - WOOD	WISDOT SPEC. 614	SEE SDD 14B42
C1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEAD)	
D1	POST-STRONG POST-WOOD	WISDOT SPEC. 614	SEE SDD 14B42
D2	POST-CRT-WOOD	WISDOT SPEC. 614	
E1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
E2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
E3	POST BOLT - NUT	AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
F1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
F2	SPLICE BOLT - NUT	ASTM A563 GRADE A	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
G1	LAG SCREW	ASTM A308 GRADE A ASTM A153 CLASS D	1/2" DIA. 6" LONG
H1	DELINEATOR - BEAM GUARD		SEE SDD 14B42 FOR MORE INFORMATION
H2	DELINEATION - SHEETING	YELLOW OR WHITE	
		WISDOT SPEC 637 TYPE SH	
		APPROVED PRODUCT LIST	
J1	FOUNDATION BACKFILL	STANDARD SPEC. 614	
AA1	BEAM GUARD RAIL - PUNCHED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
AA2	BEAM GUARD RAIL - END SECTION BUFFER	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
BB1	BEAM GUARD RAIL - TERMINAL CONNECTOR MODIFIED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
CC1	SHORT RADIUS - SQUARE WASHER	AASHTO M180	
		GALV. AASHTO M111 / ASTM A123	
EE1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)	
FF1	POST - BCT - WOOD	S4S FINISH ON 4 SIDES	
		WISDOT SPEC. 614	
GG1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
GG2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	3/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329	

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B53-03g

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
GG3	POST BOLT - NUT	ASTM A563 GRADE A	3/8" DIA. SEE 14B42 FOR GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
HH1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180 HEAD GEOMETRY	
HH2	SPLICE BOLT - NUT	ASTM A563 GRADE A	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
JJ1	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	10" O.D.
JJ2	TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 3/8" X 4" X 1' - 0"
		GALV. AASHTO M111 / ASTM A123	
KK1	ANCHOR BRACKET	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
KK2	ANCHOR BRACKET - BEARING PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
LL1	ANCHOR BRACKET - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	5/8" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
LL2	ANCHOR BRACKET - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
LL3	ANCHOR BRACKET - NUT	ASTM A563 GRADE A	5/8" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
MM1a	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM1b	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM2	ANCHOR CABLE - SWAGE FITTING	ASTM A576 GRADE 1035	
		SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. WITH A BREAKING STRENGTH 40,000 LBS.	
		GALV. AASHTO M111 / ASTM A123	
		ASME B30.26 FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING INTO CONNECTION: NAME OF MANUFACTURER OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE.	
MM3	WIRE ROPE CABLE CLAMPS	FF-C-450D TYPE 1 CLASS 1	3/4"
		ASTM A153 HOT DIP CLASS D	
MM4	ANCHOR CABLE - SWAGE FITTING - STUD	ASTM F3125 GRADE A325 TYPE 1 OR SAE GRADE 5 OR ASTM A449 TYPE 1 HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
NN1	ANCHOR CABLE - NUT	ASTM A563 GRADE A	1" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
NN2	ANCHOR CABLE - NUT - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	1" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B53-03h

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	

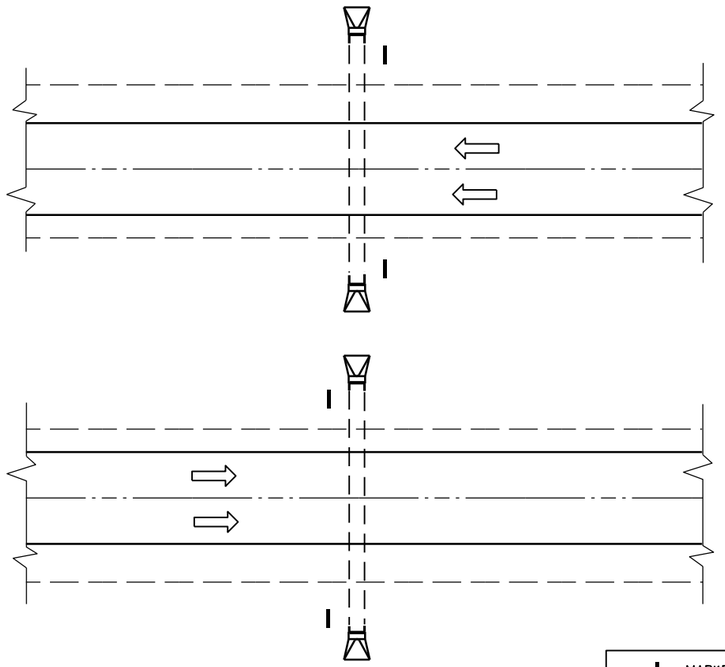
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

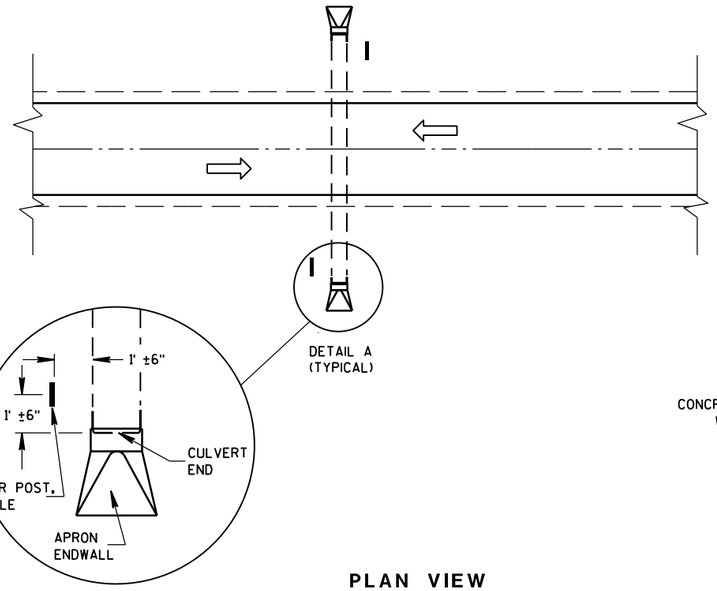
FHWA

6 SDD 14B53-03i



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

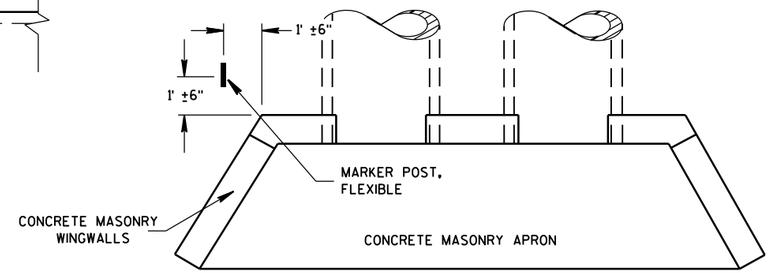
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

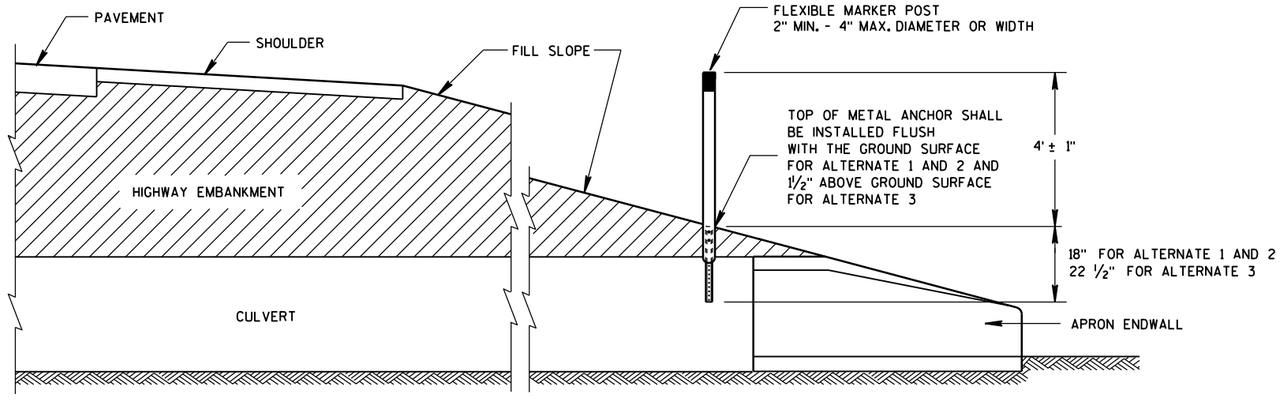
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

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

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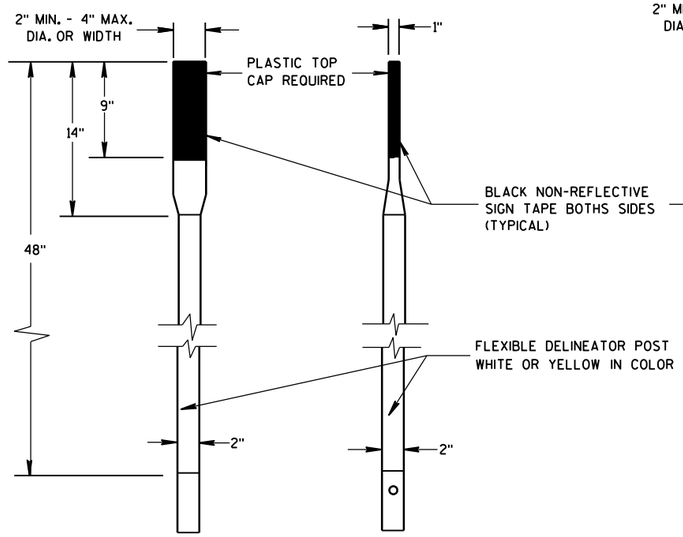
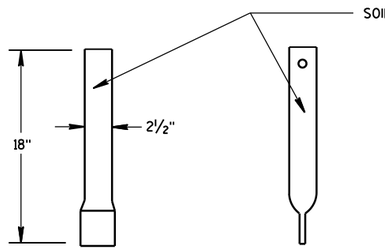
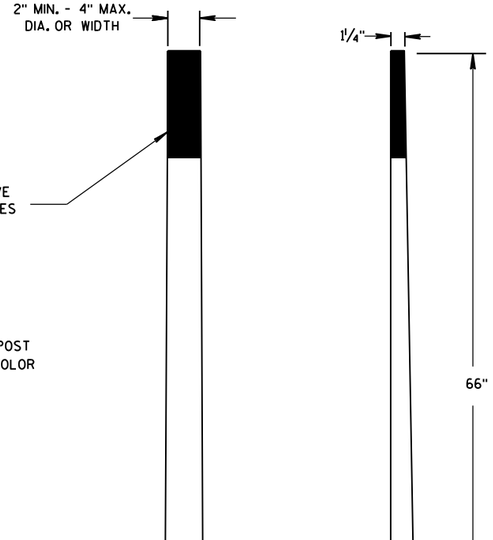
S.D.D. 15 A 3-2a





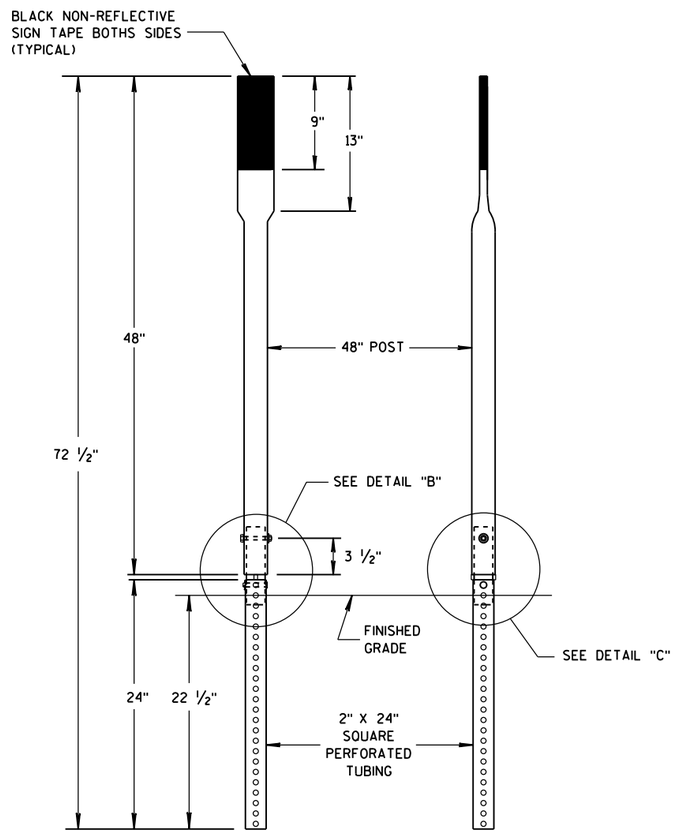
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

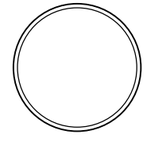
ALTERNATE 2



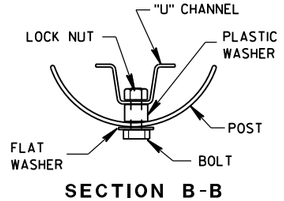
FRONT VIEW SIDE VIEW

ALTERNATE 3

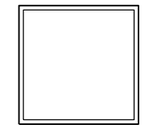
FLEXIBLE MARKER POSTS



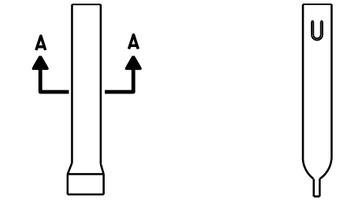
SECTION A-A



SECTION B-B

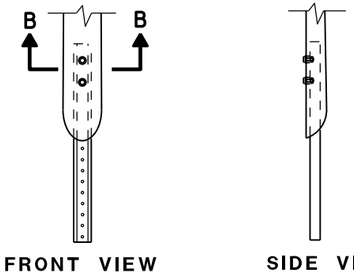


SECTION C-C



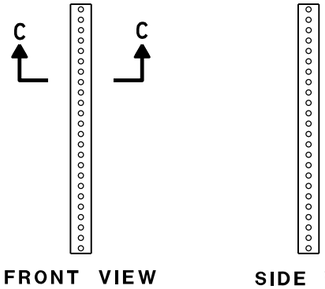
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

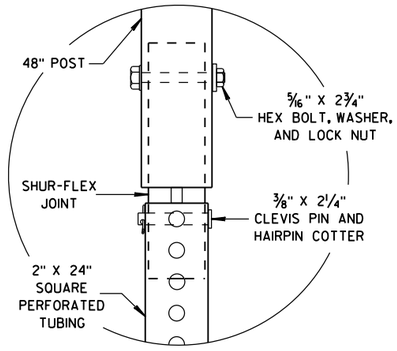
ALTERNATE 2



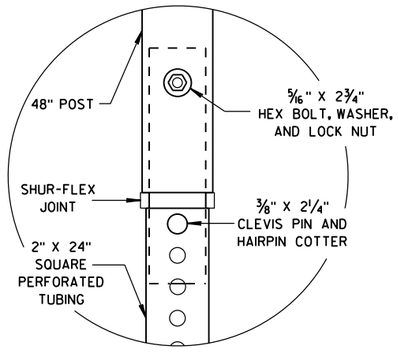
FRONT VIEW SIDE VIEW

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

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

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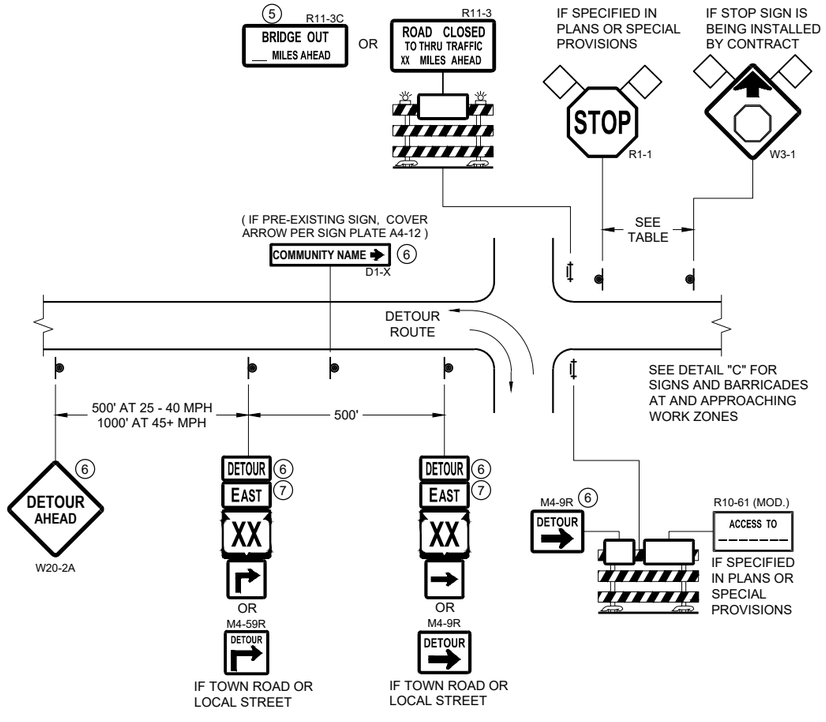
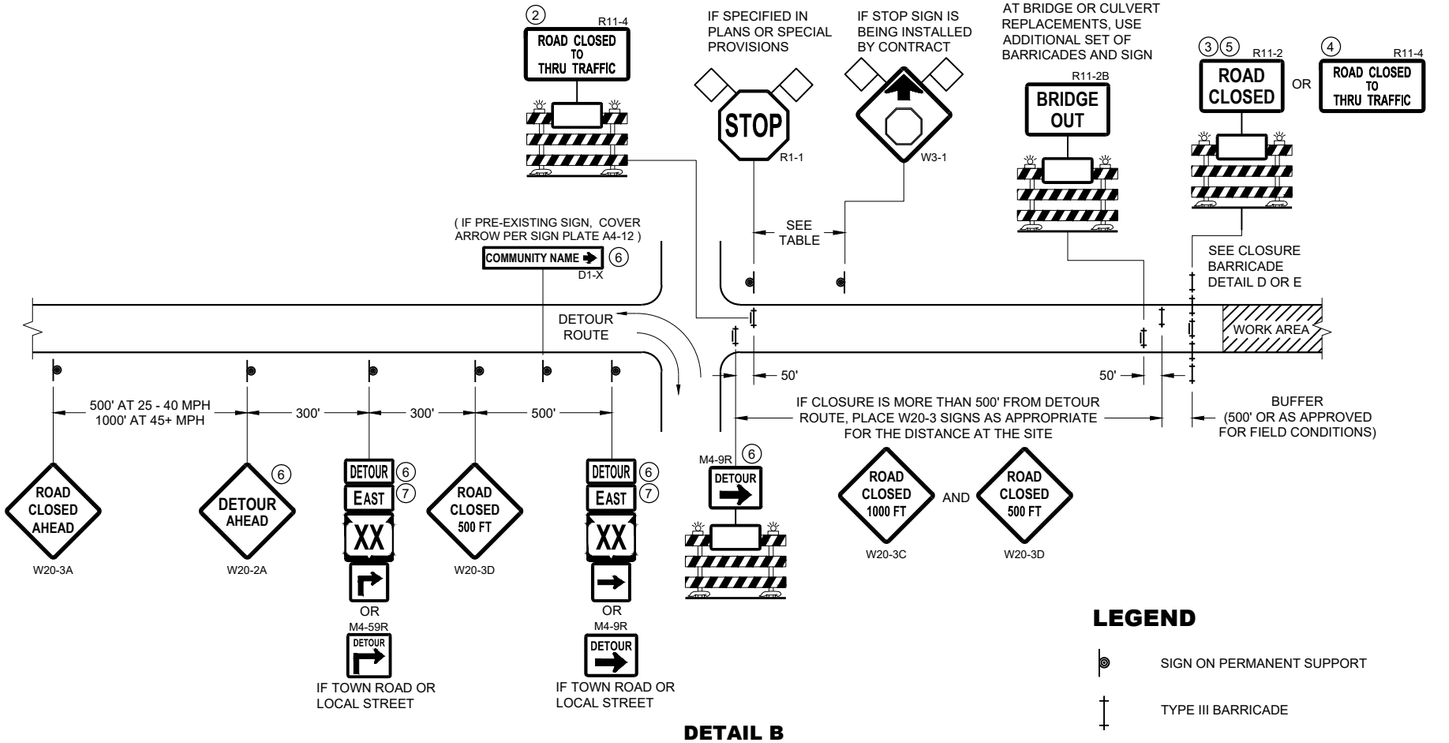
S.D.D. 15 A 3-2b



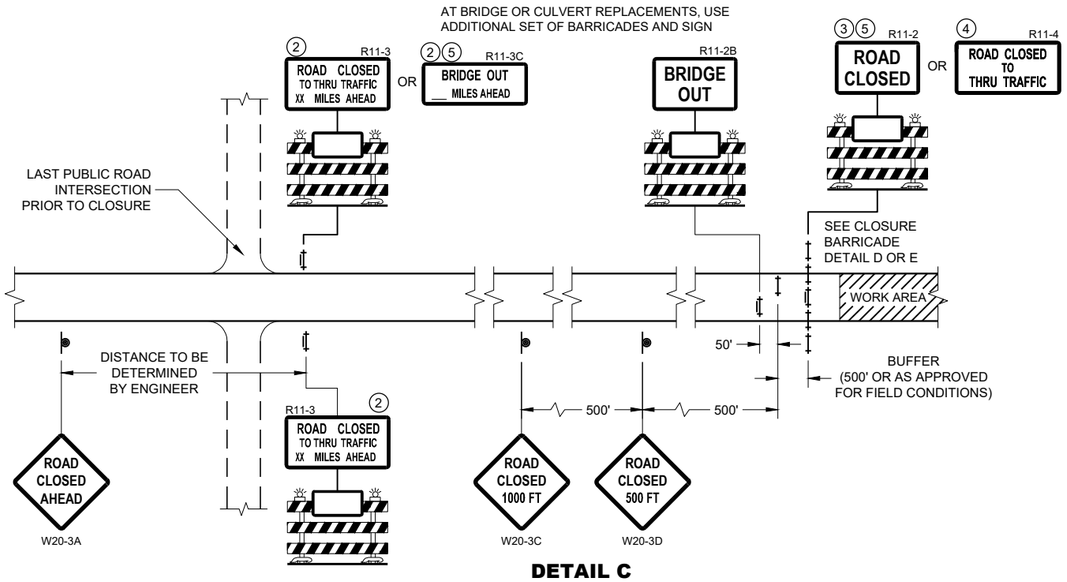
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b" FOR GENERAL NOTES AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

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SDD 15C02 - 09a

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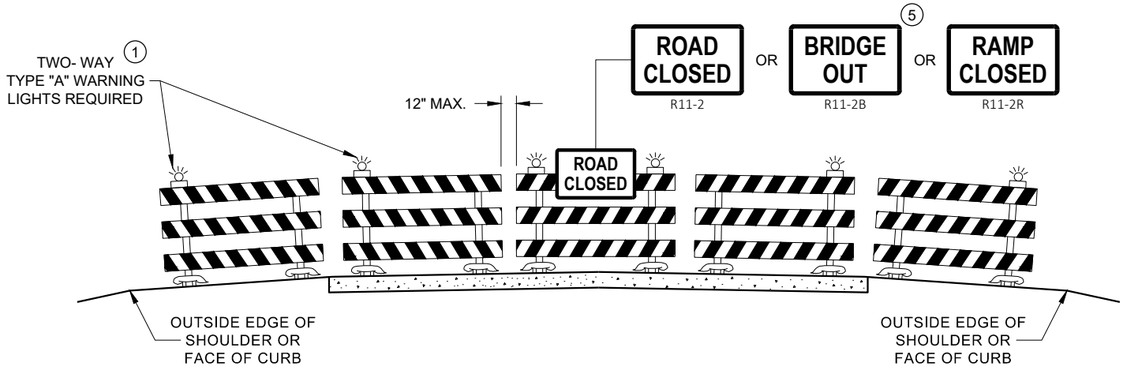
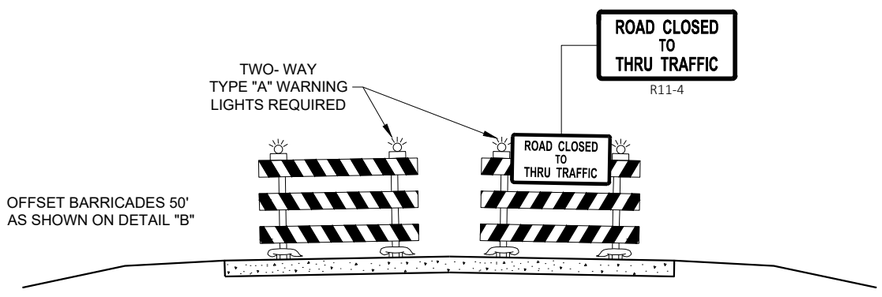


DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

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SDD 15C02 - 09b

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SDD 15C02 - 09b

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR / EAST — M4 - 8, M3 - X
- XX — M1 - 4
- OR XX — M1 - 6
- OR COUNTY X — M1 - 5A
- M05 - 1
- OR M06 - 1
- OR M06 - 1

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

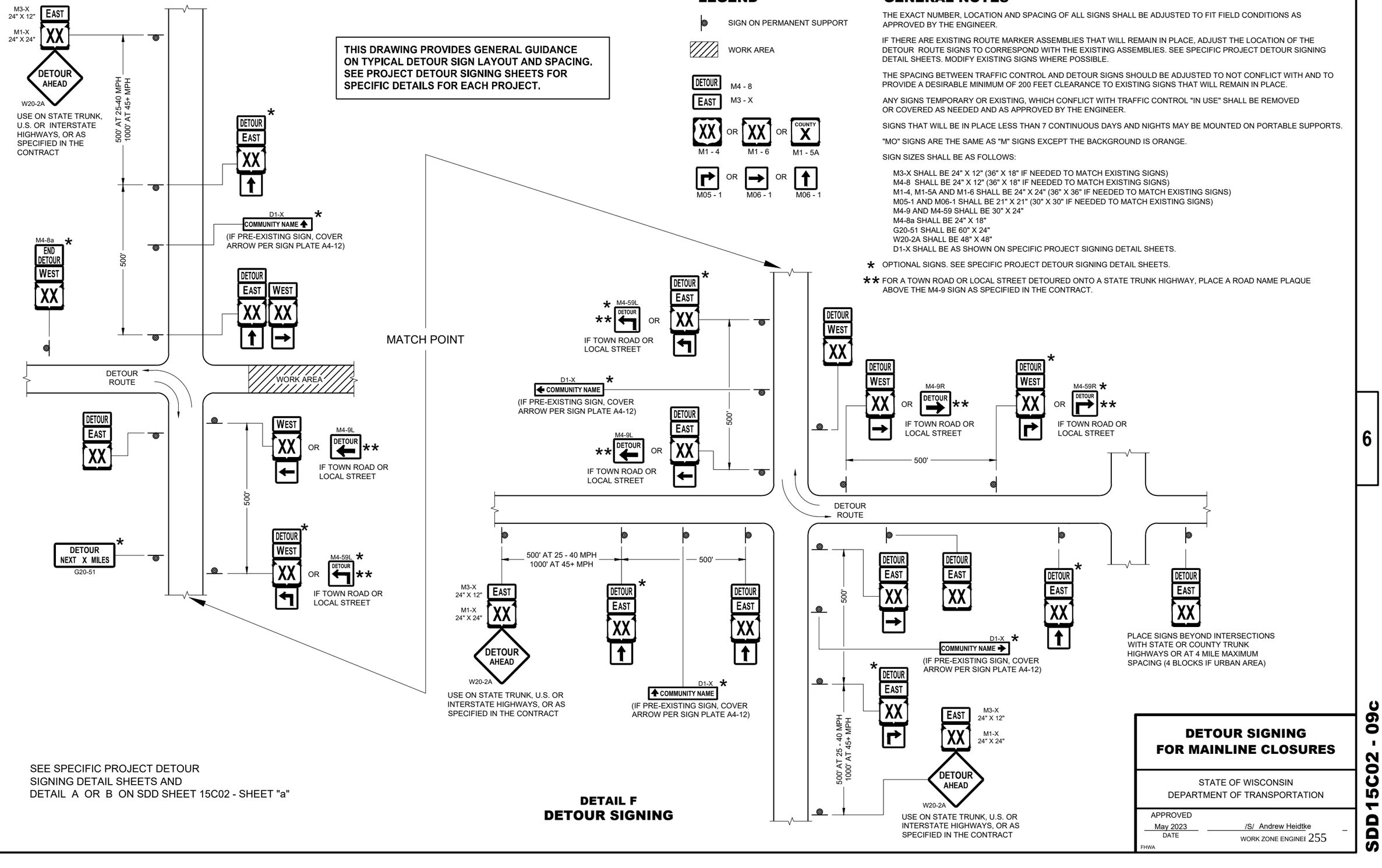
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
M4-9 AND M4-59 SHALL BE 30" X 24"
M4-8a SHALL BE 24" X 18"
G20-51 SHALL BE 60" X 24"
W20-2A SHALL BE 48" X 48"
D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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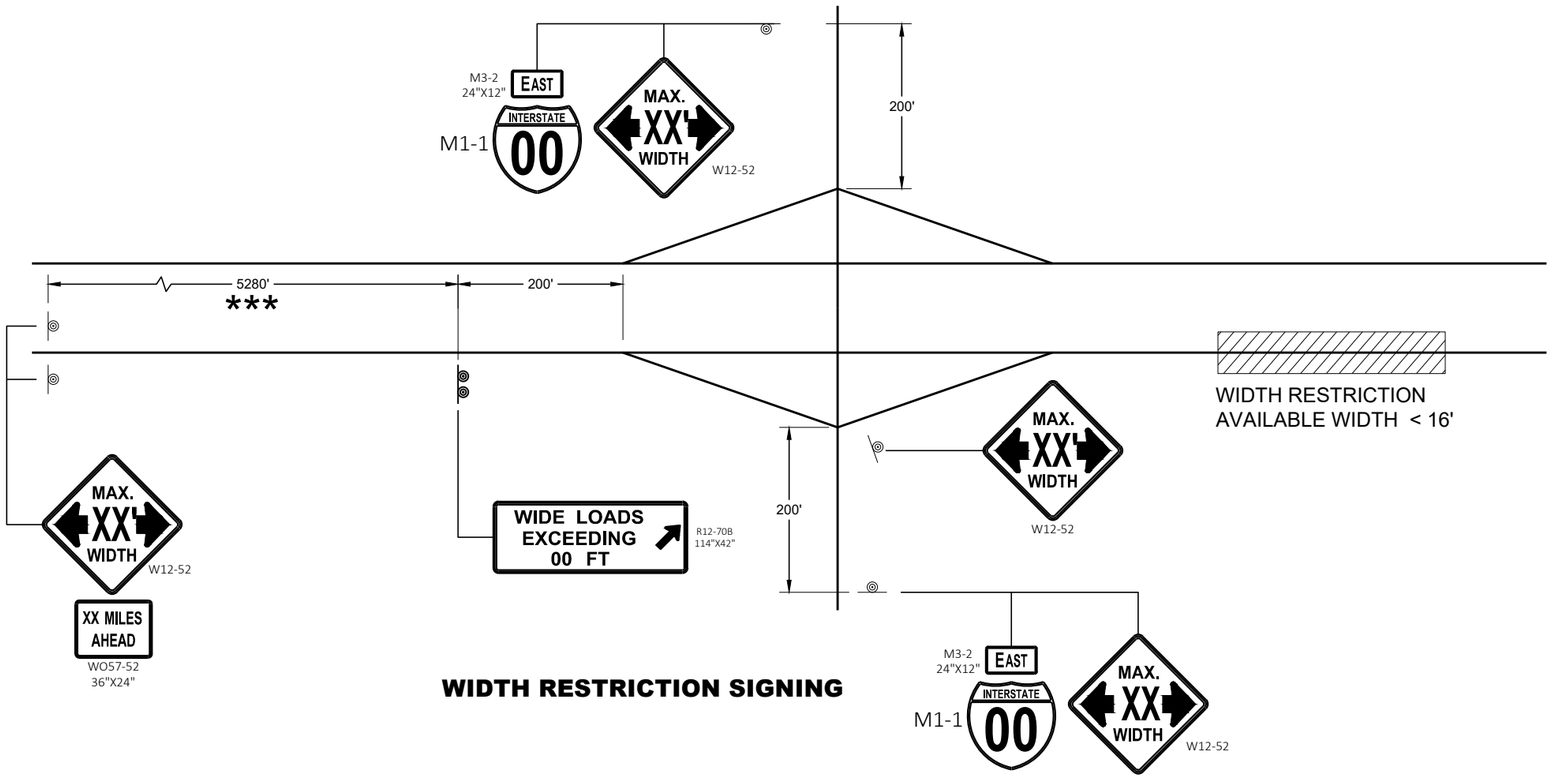
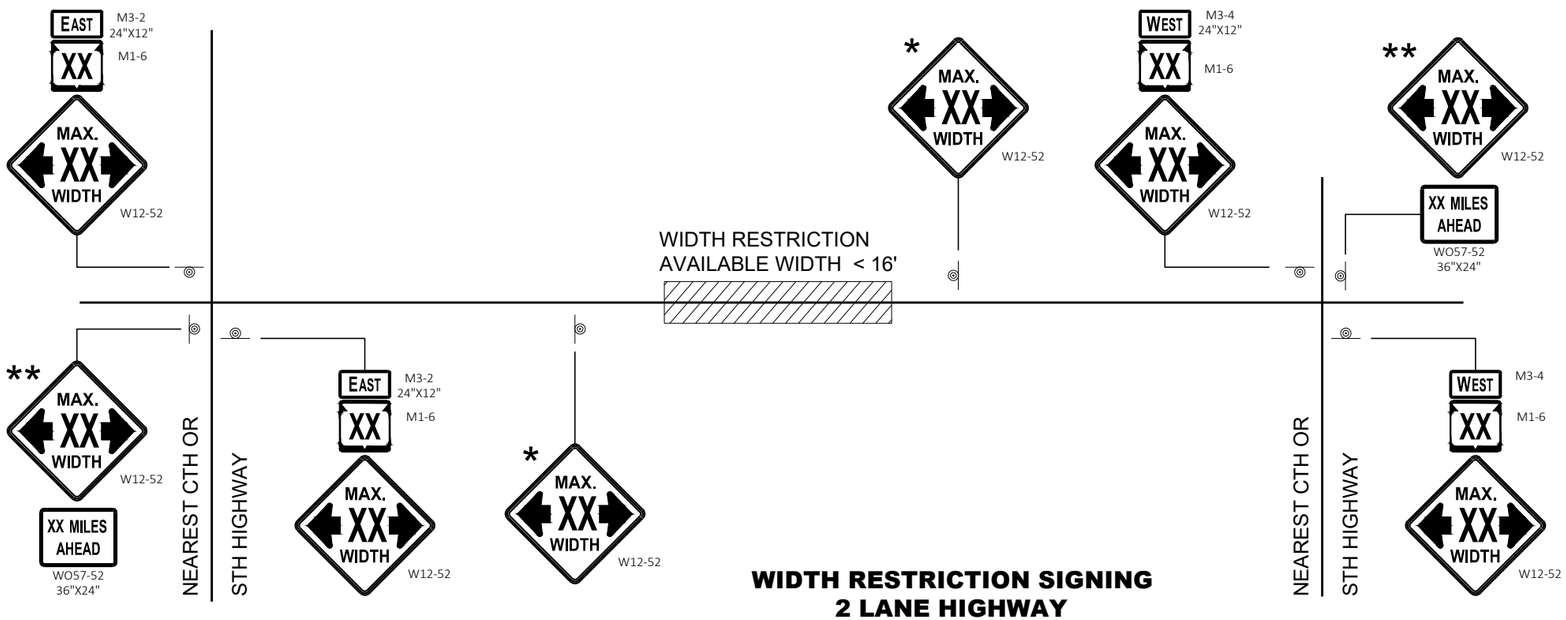
SDD 15C02 - 09c



WIDTH RESTRICTION SIGNING



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

LEGEND

◎ SIGN ON PERMANENT SUPPORT

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

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

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.

WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

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SDD 15C02 - 09f

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SDD 15C02 - 09f

GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

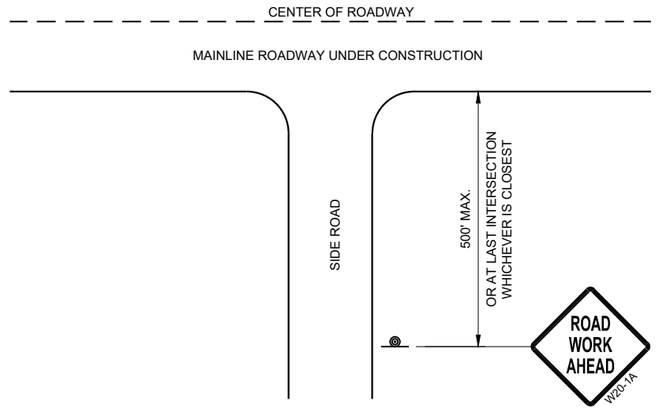
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

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



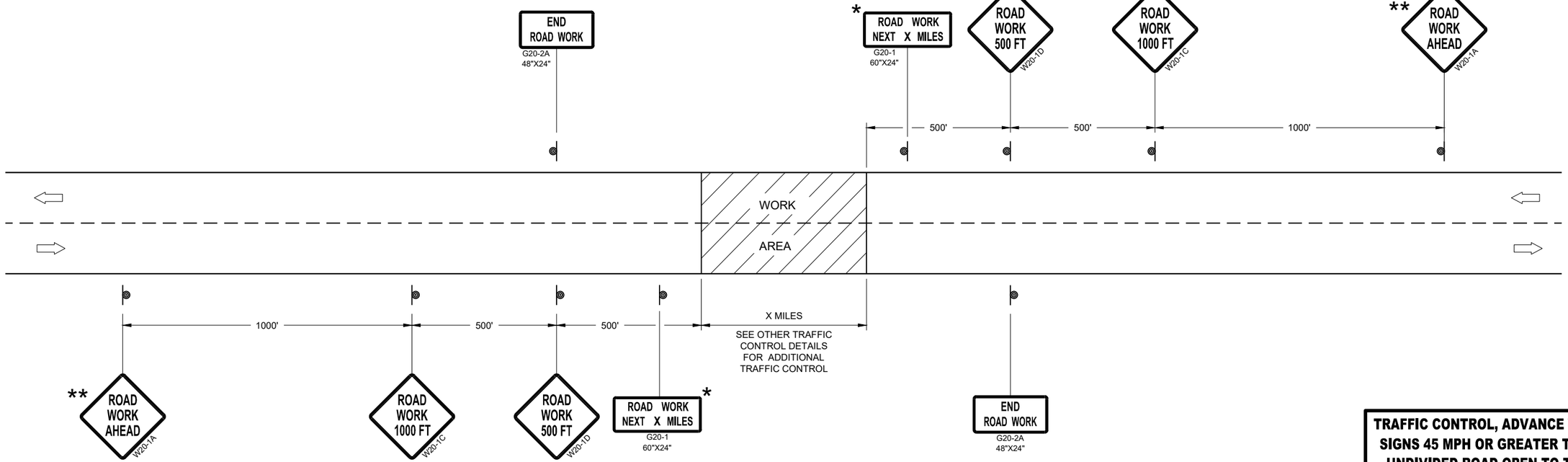
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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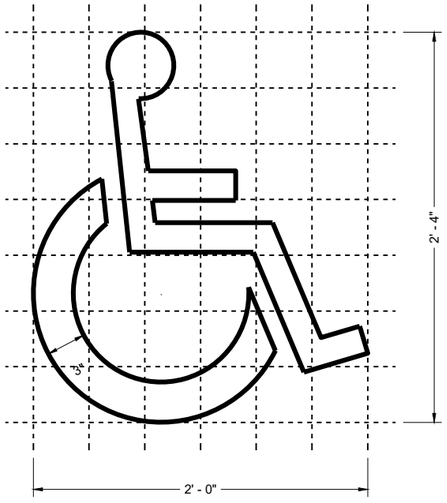
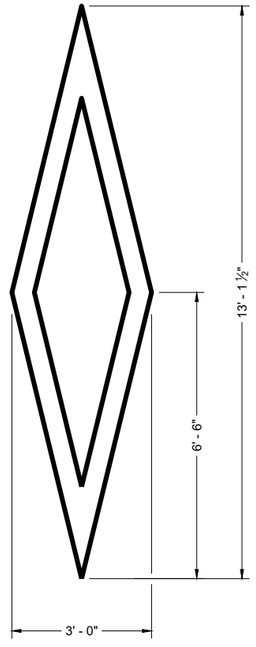
SDD 15C04 - 05

GENERAL NOTES

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



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

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SDD 15C07-16a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

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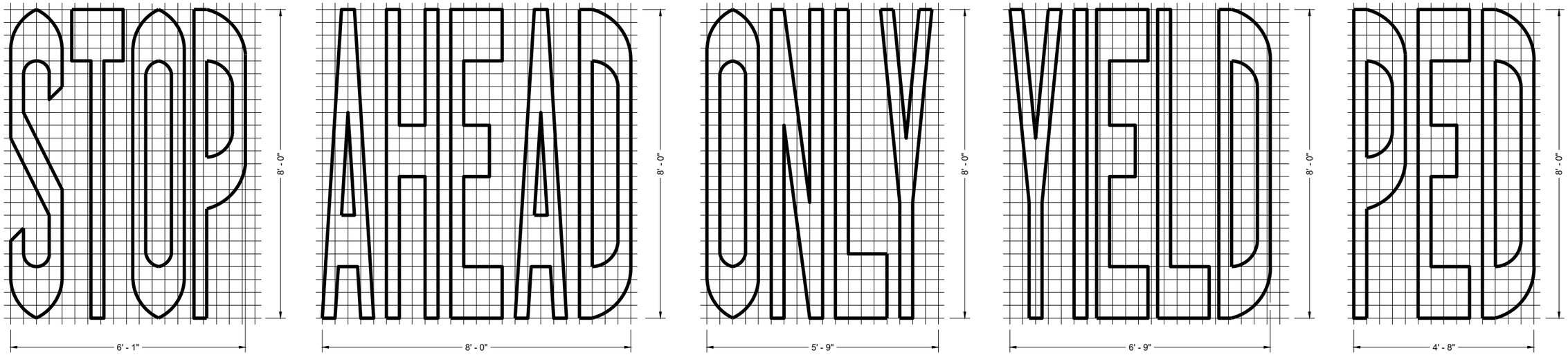
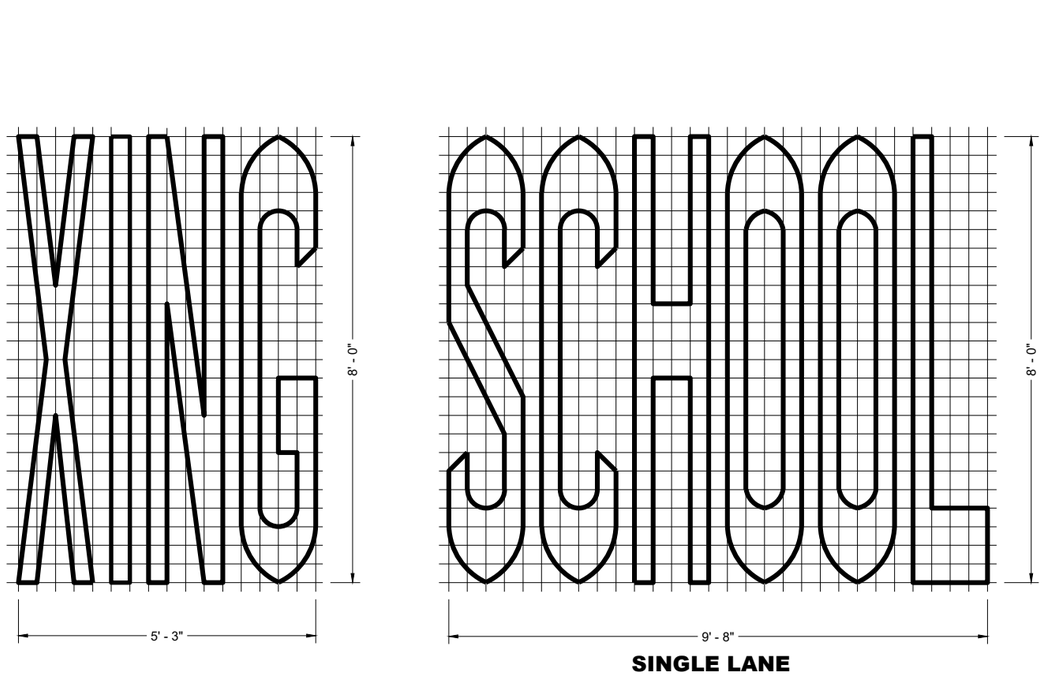
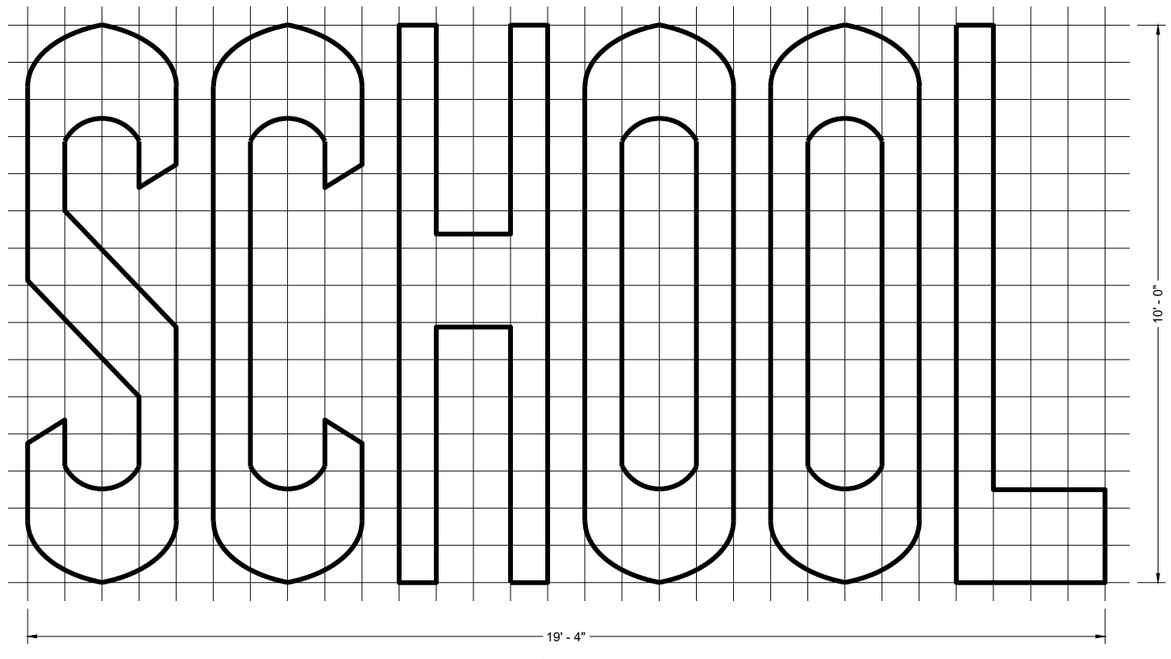
SDD 15C07-16a





SINGLE LANE



TWO - LANE

GENERAL NOTES

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

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

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SDD 15C07-16b

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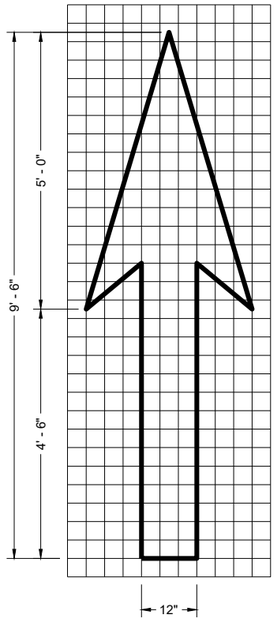
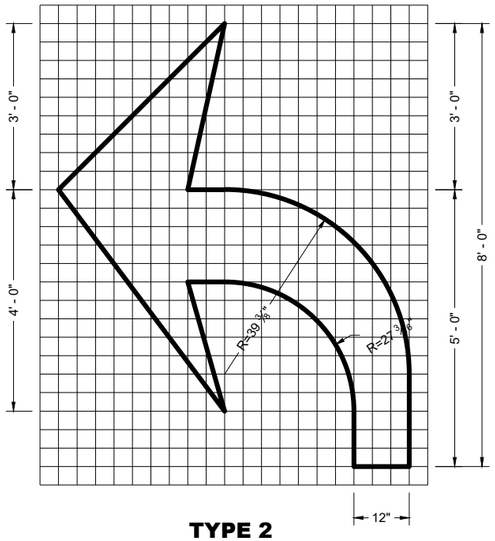
SDD 15C07-16b

GENERAL NOTES

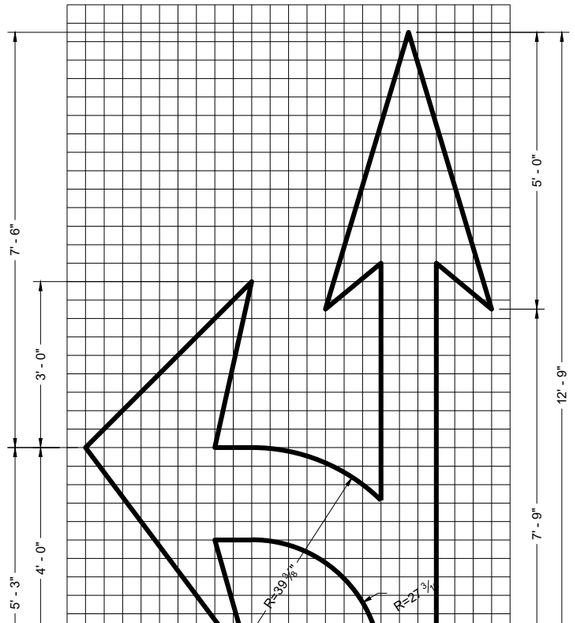
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



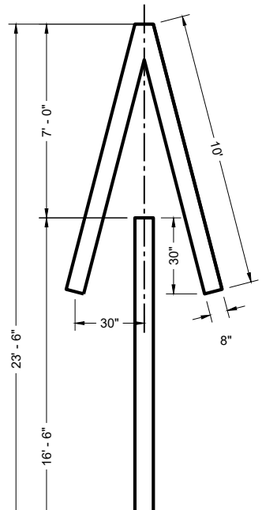
TYPE 1



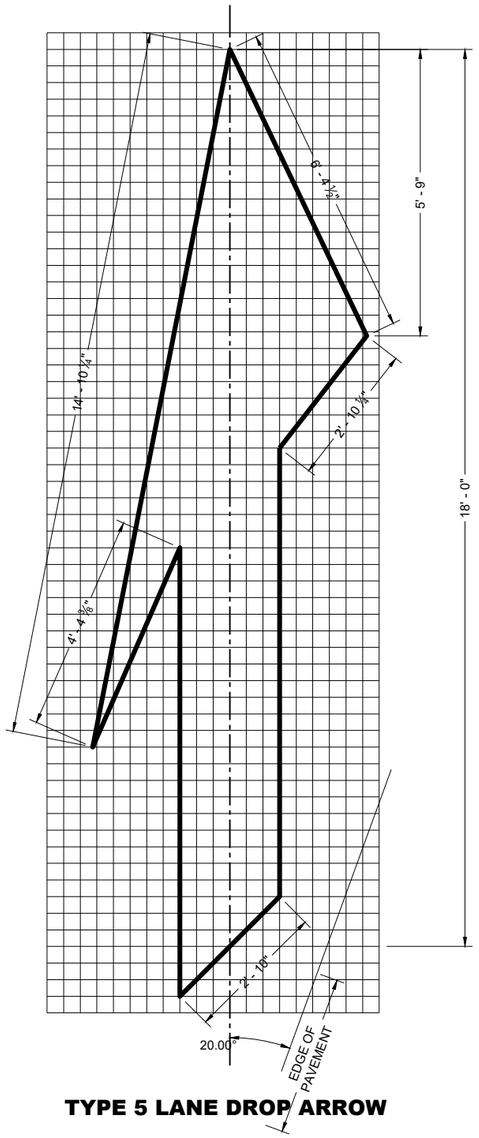
TYPE 2



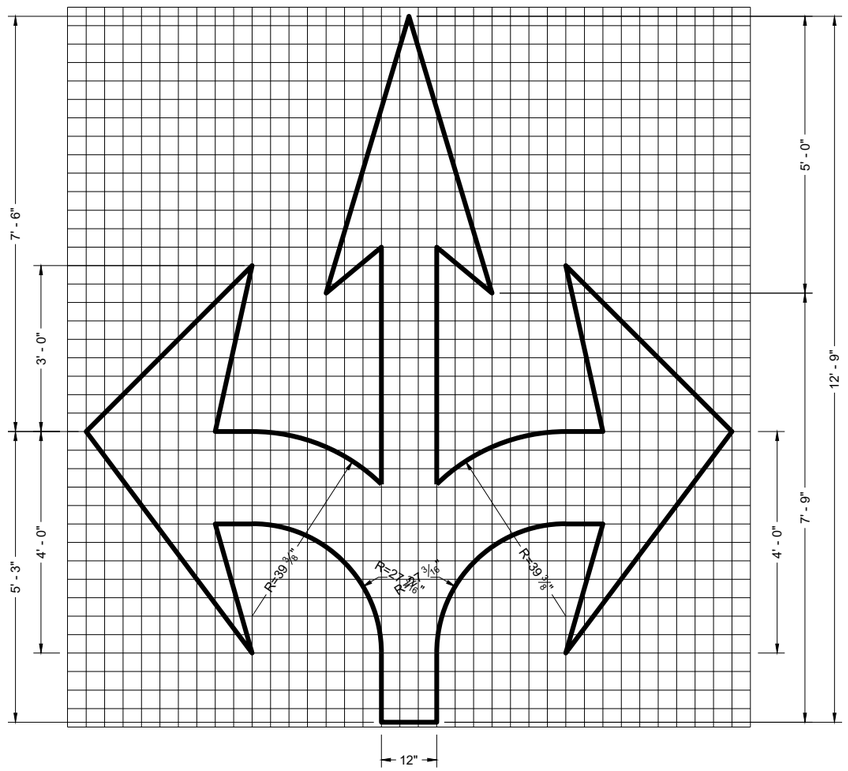
TYPE 3



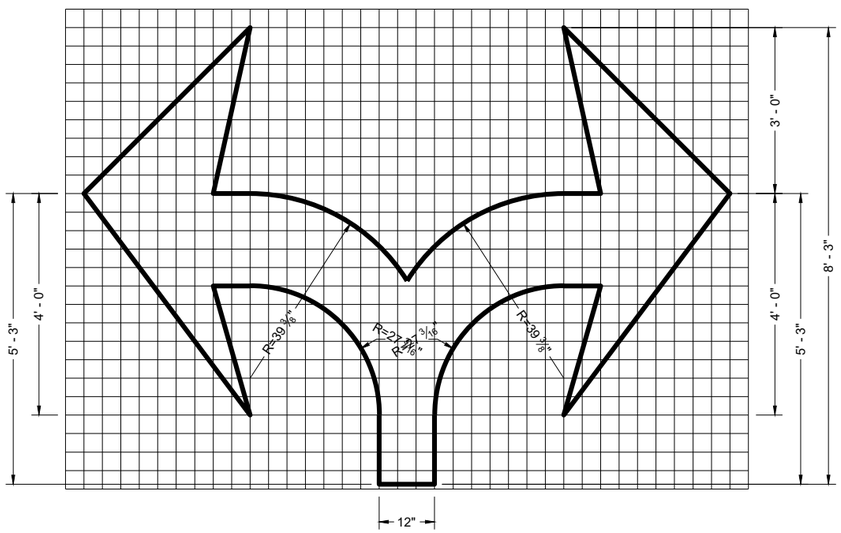
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

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SDD 15C07-16c

6

SDD 15C07-16c

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

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

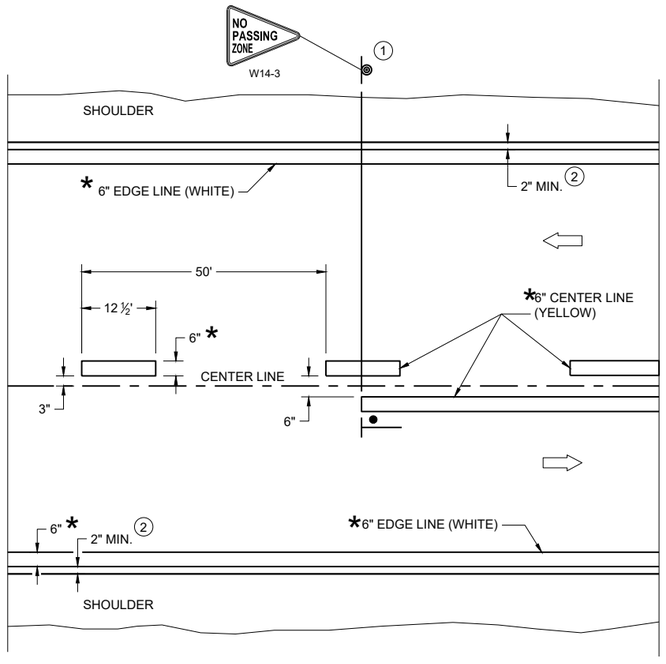
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

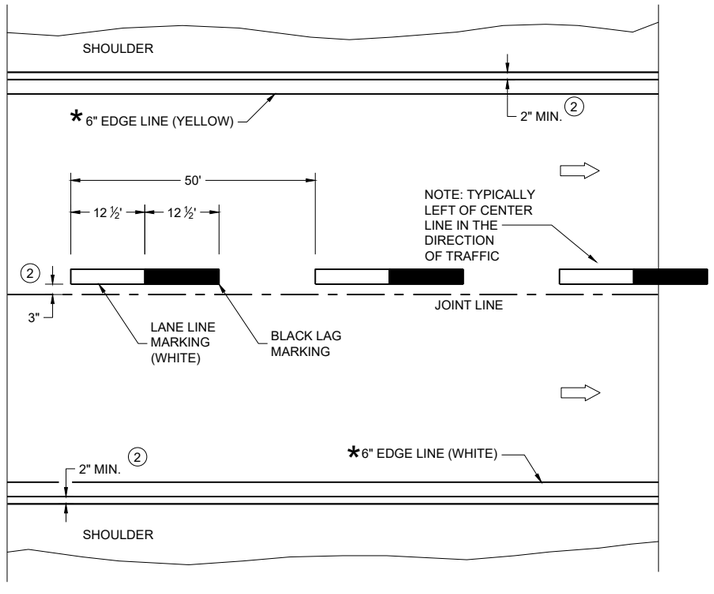
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE

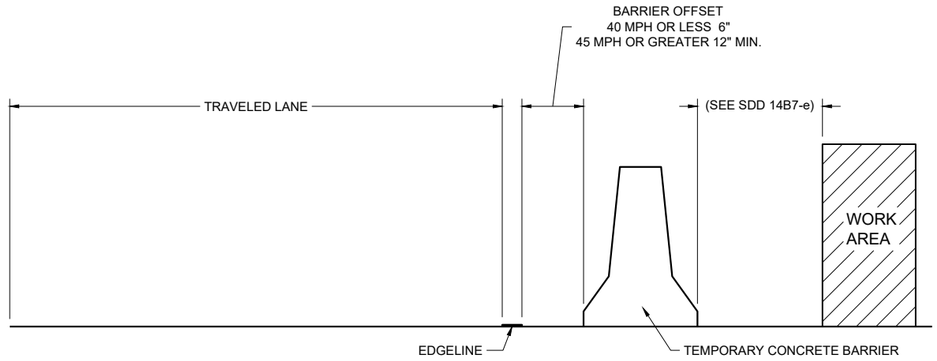
/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C08-24a

SDD 15C08-24a



TEMPORARY BARRIER OFFSET FROM EDGELINE

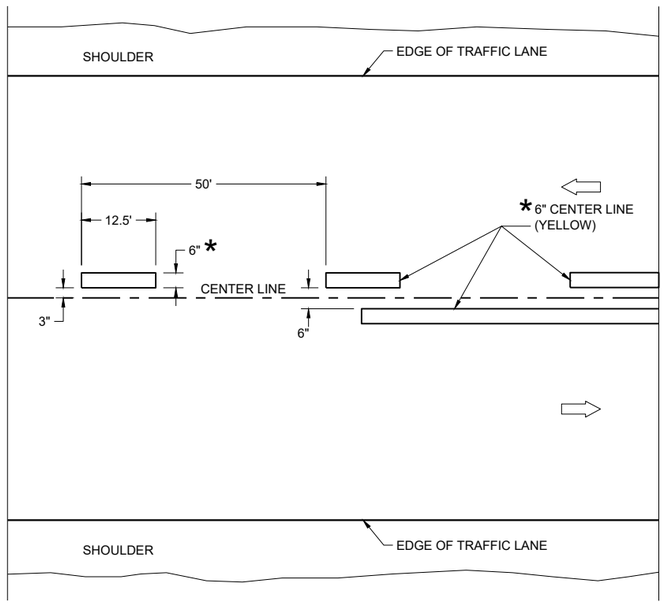
GENERAL NOTES

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

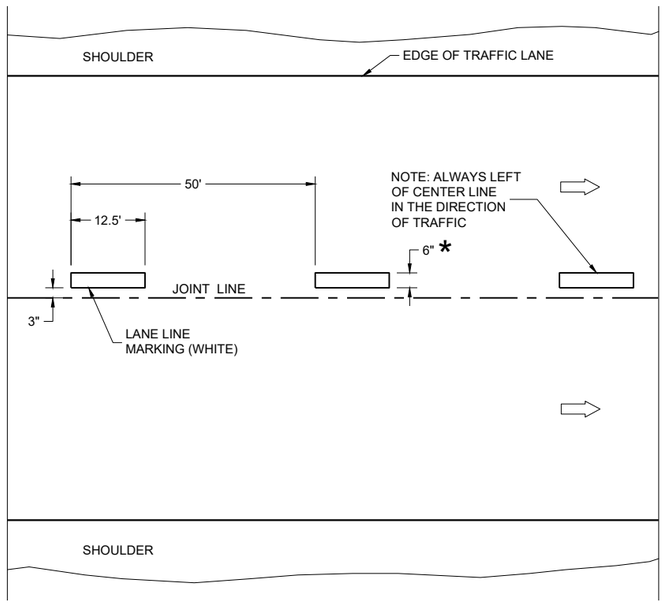
LEGEND

⇨ DIRECTION OF TRAFFIC

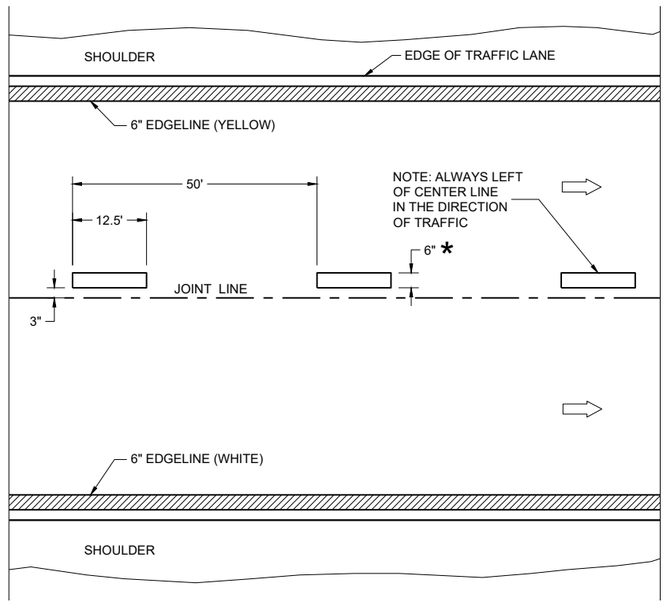
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
December 2024 DATE	/S/ Jeannie Silver Statewide Pavement Marking Engineer
FHWA	

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SDD 15C08-24b

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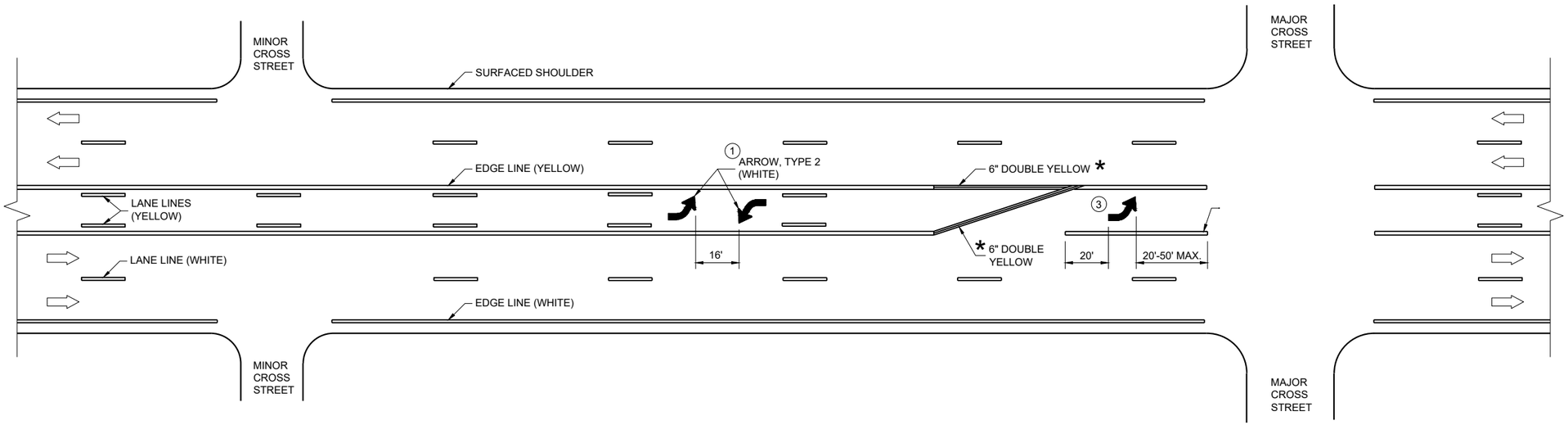
SDD 15C08-24b

GENERAL NOTES

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

⇨ DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY LEFT TURN LANE

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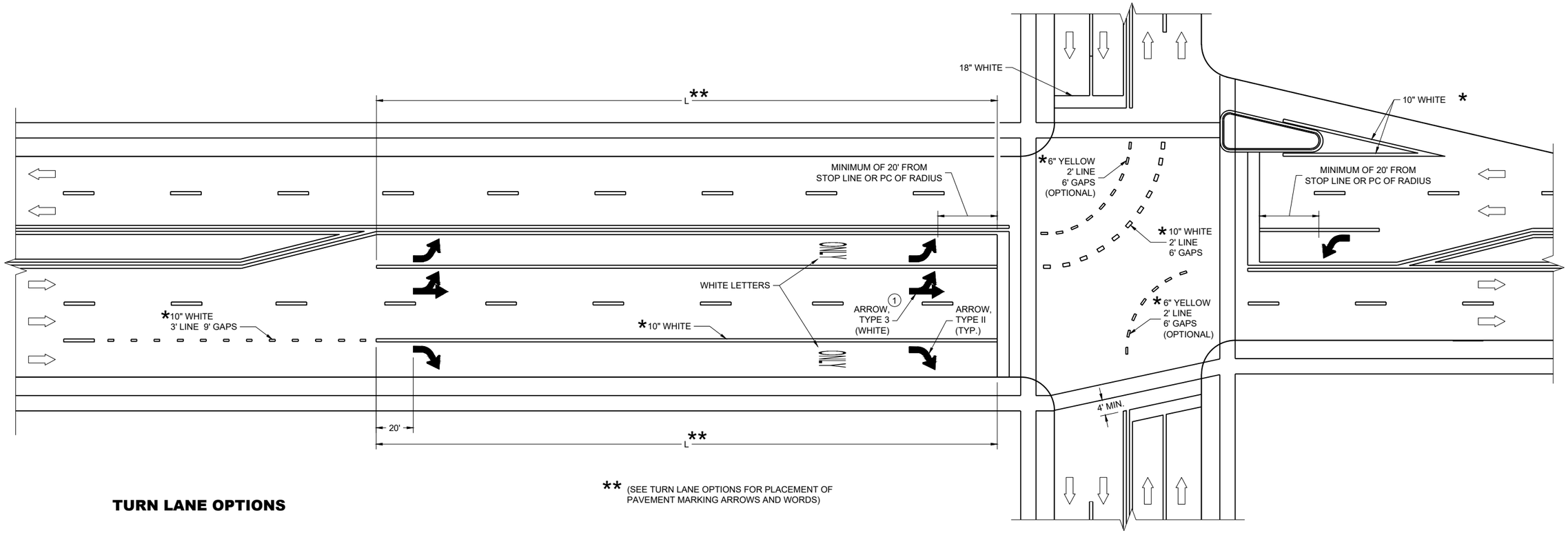
SDD 15C08-24c

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

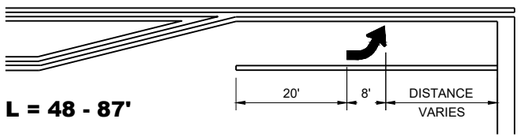
SDD 15C08-24c



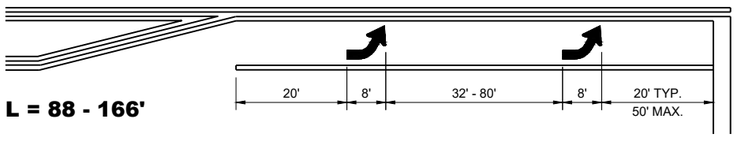
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

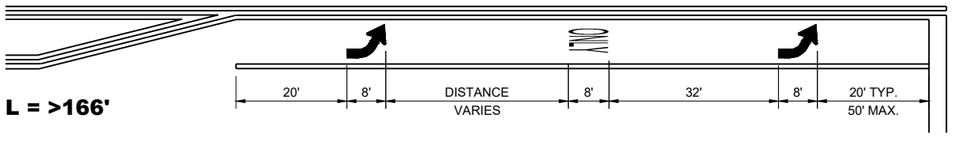
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT
REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

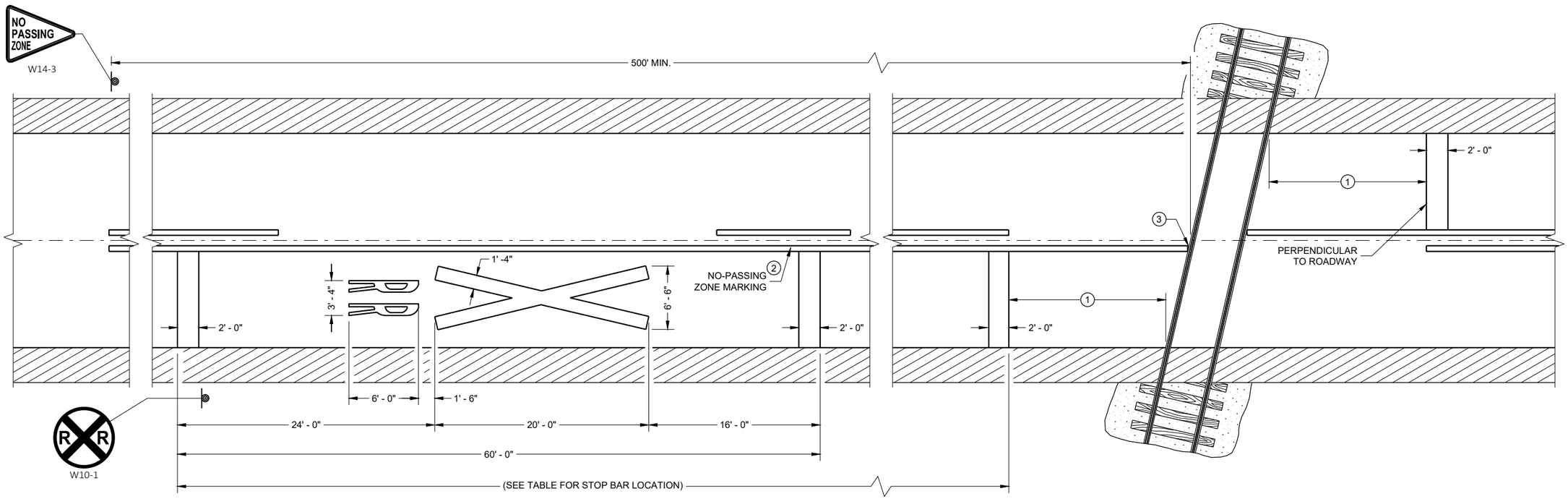
DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

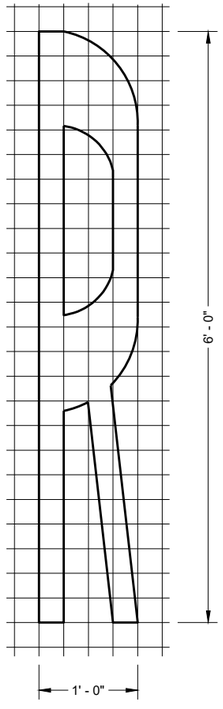
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PAVEMENT MARKING



LEGEND

SIGN ON PERMANENT SUPPORT

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.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

(1) PLACE STOP BAR APPROXIMATELY 8 FEET IN ADVANCE OF THE GATE (IF PRESENT), BUT NO CLOSER THAN 15 FEET IN ADVANCE OF THE NEAREST RAIL. FIELD-FIT STOP BAR TO MAXIMIZE VIEW OF APPROACHING TRAIN.

(2) 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

(3) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

DISTANCE TABLE

TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

POSTED SPEED (M.P.H.)	DIMENSION RANGE (FEET)
25	150* - 250'
30	200* - 300'
35	250* - 450'
40	300* - 500'
45	400* - 650'
50	550* - 800'
55	750* - 1000'
60	1000* - 1250'
65	1000* - 1250'

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSED PROXIMITY OF DRIVEWAYS, BRIDGES, SIDE ROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR ENGINEER

FHWA

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SDD 15C09-13a

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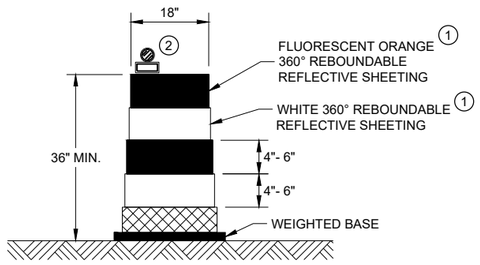
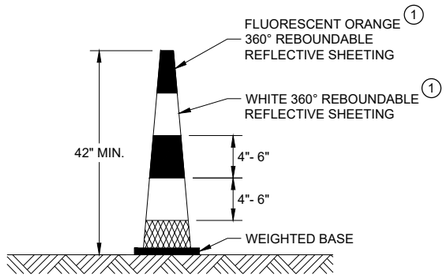
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

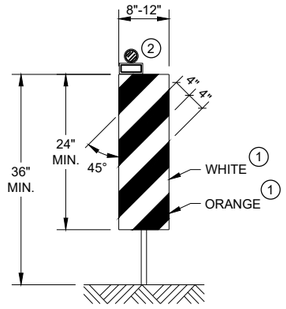
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

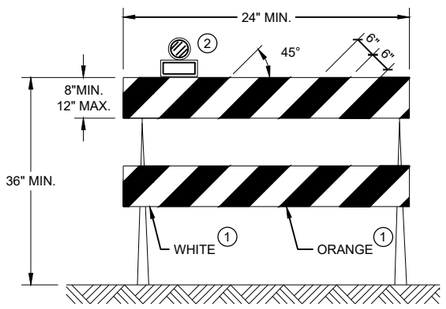
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



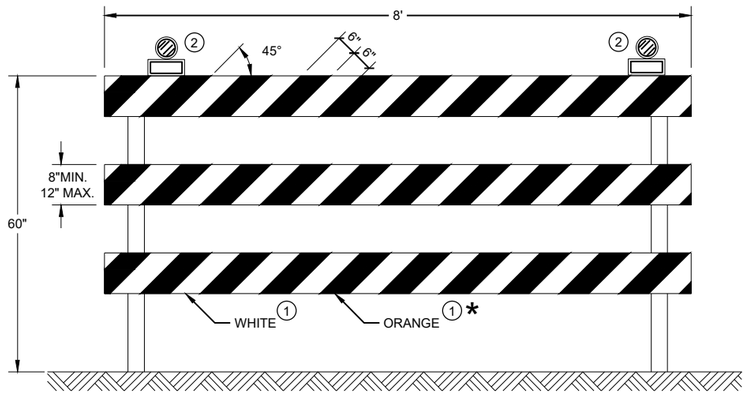
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15C11 - 10b

6

SDD 15C11 - 10b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

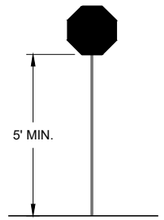
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



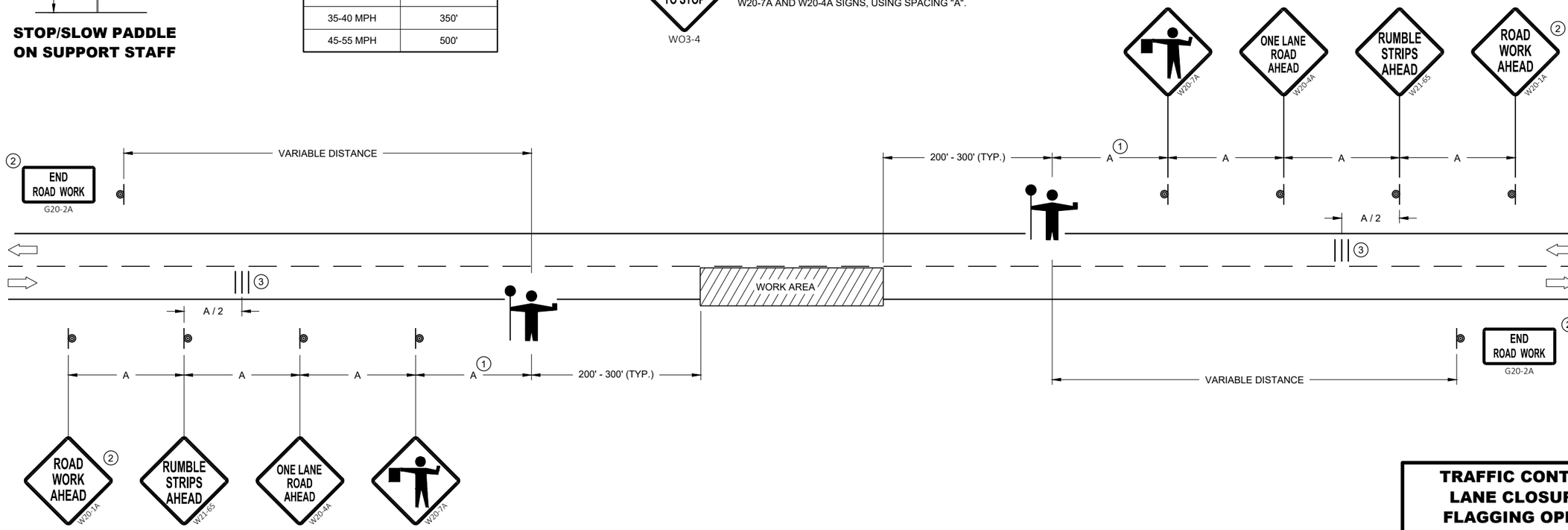
STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C12 - 09a

6

SDD 15C12 - 09a

GENERAL NOTES

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL CONE 42-INCH

TRAFFIC CONTROL DRUM

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

AFAD — AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

IF THE AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) STOPS WORKING, FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

(1) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(2) IF FLAGGERS ARE PHYSICALLY NEEDED TO FLAG, REPLACE WO3-4 SIGNS WITH W20-7A SIGNS.

TEMPORARY PORTABLE RUMBLE STRIPS

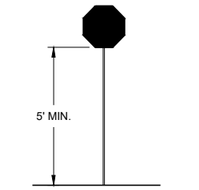
UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

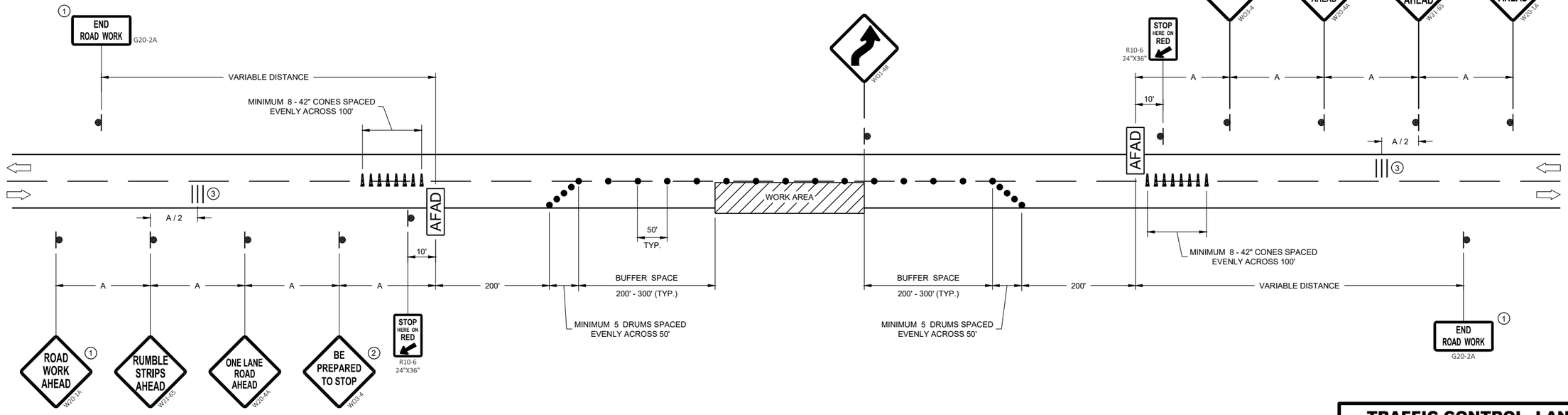
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

SDD 15C12 - 09b

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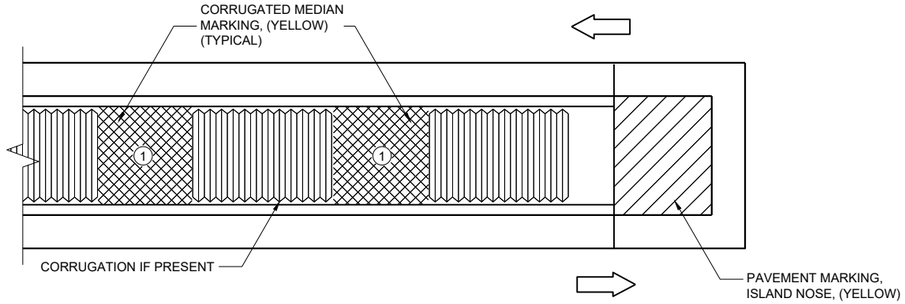
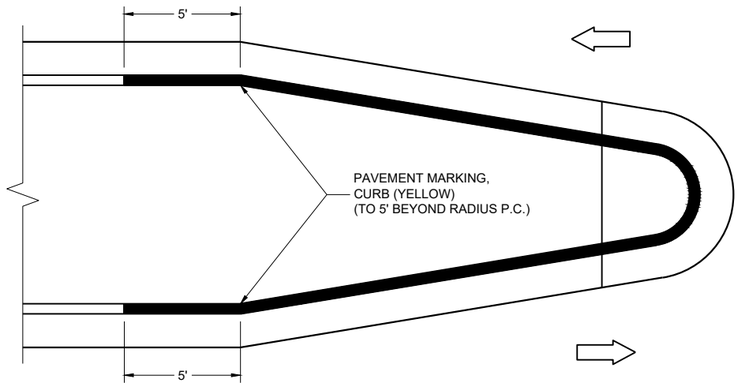
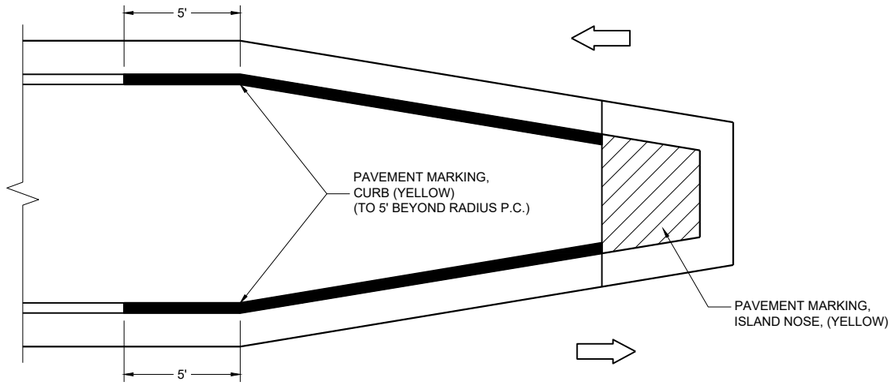


MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

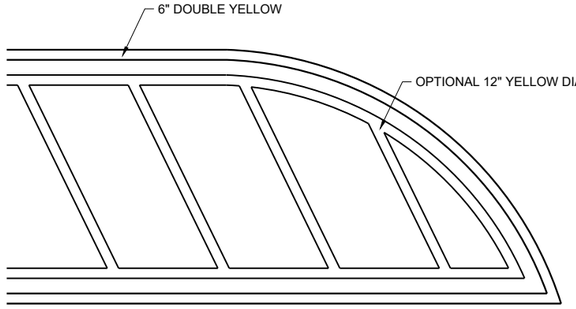
(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL



FLUSH MEDIAN ISLAND NOSE

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

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SDD 15C18-09b

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

GENERAL NOTES

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

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

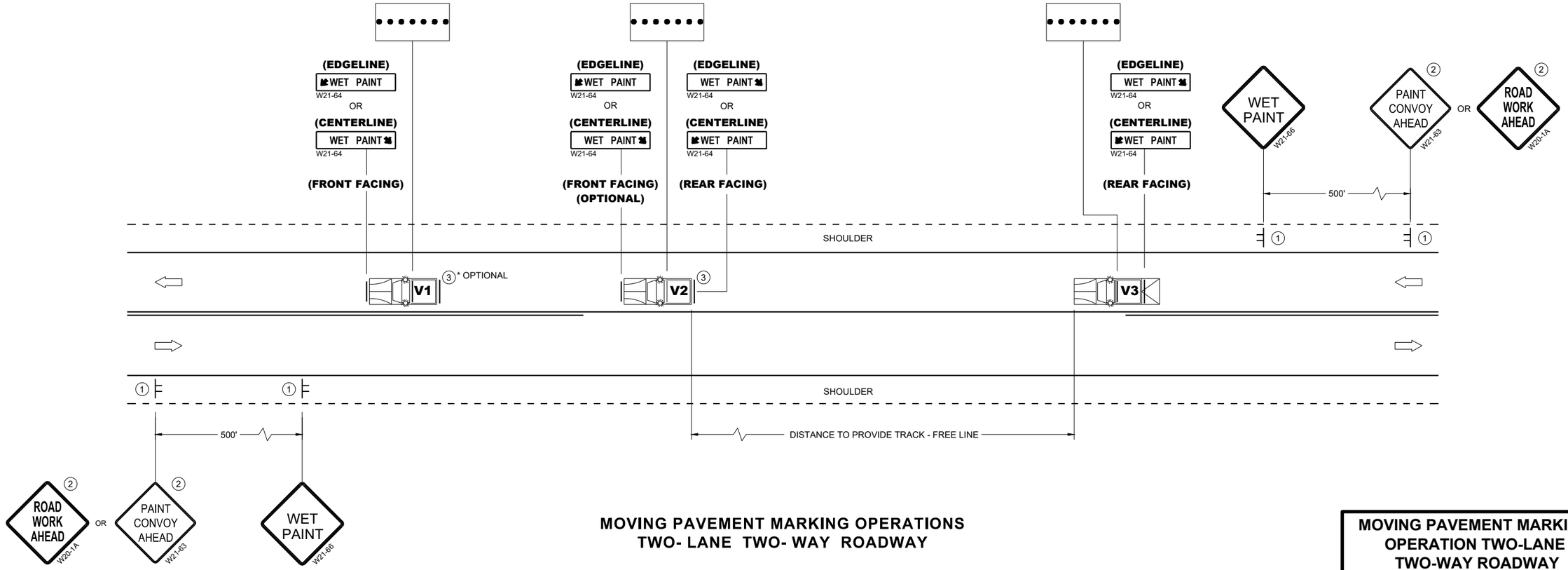
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

(3) V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.



MOVING PAVEMENT MARKING OPERATIONS
TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEBRUARY 2025 — DATE
/S/ Andrew Heidtke — STATE ELECTRICAL ENGINEER

FHWA

6

SDD 15C19-10a

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

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.

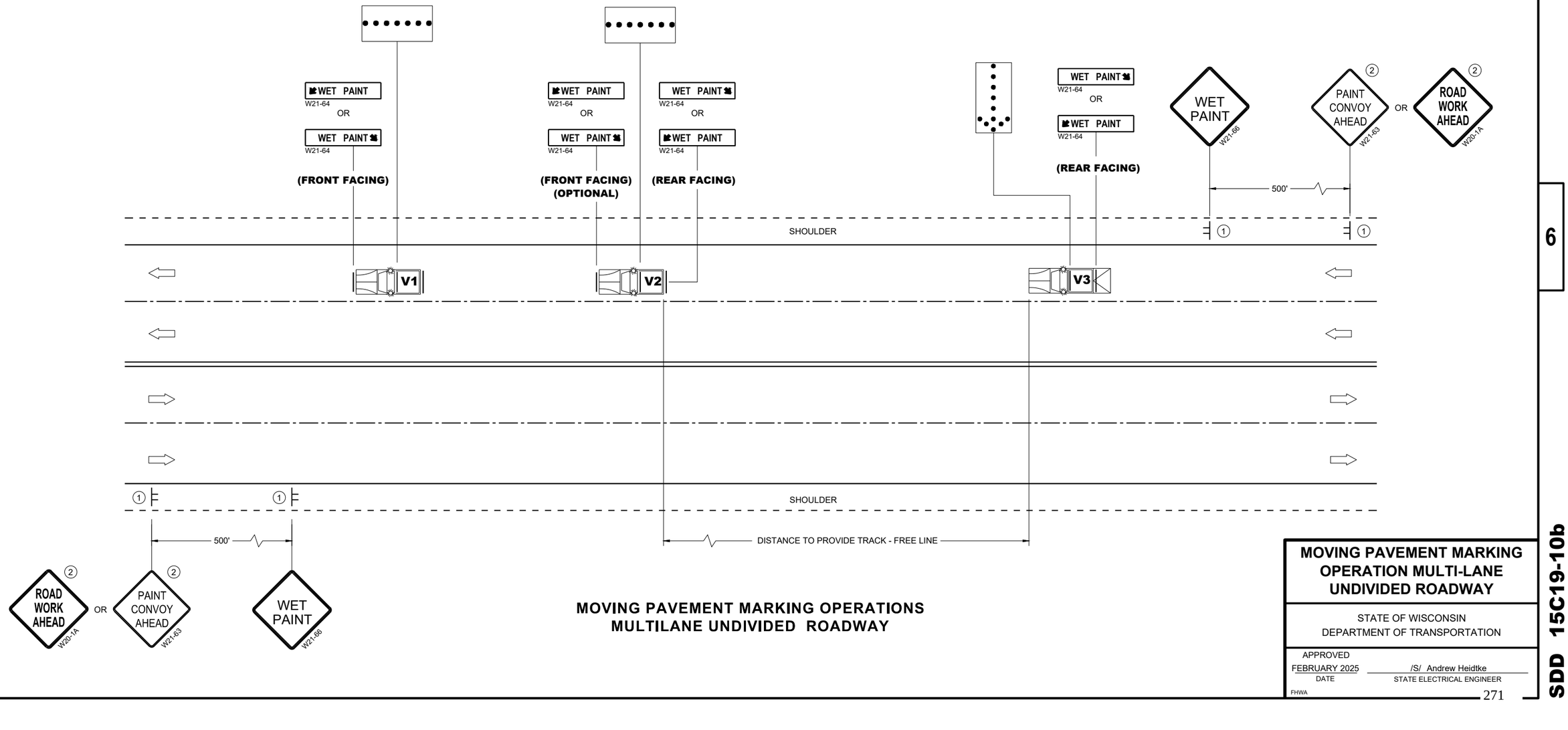
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

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 28" FOR WET PAVEMENT MARKINGS.

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.

(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
FEBRUARY 2025 — DATE
/S/ Andrew Heidtke — STATE ELECTRICAL ENGINEER
FHWA

6
SDD 15C19-10b

LEGEND

V1 MARKING VEHICLE

V2 SHADOW VEHICLE

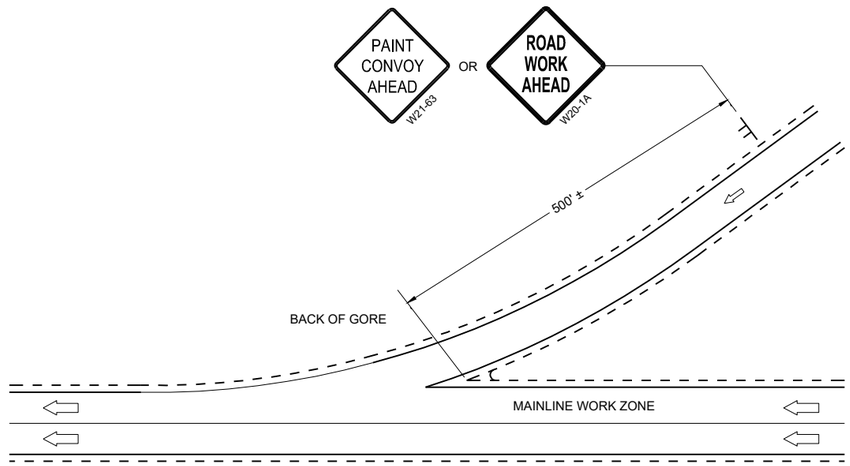
V3 TRAIL VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

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.

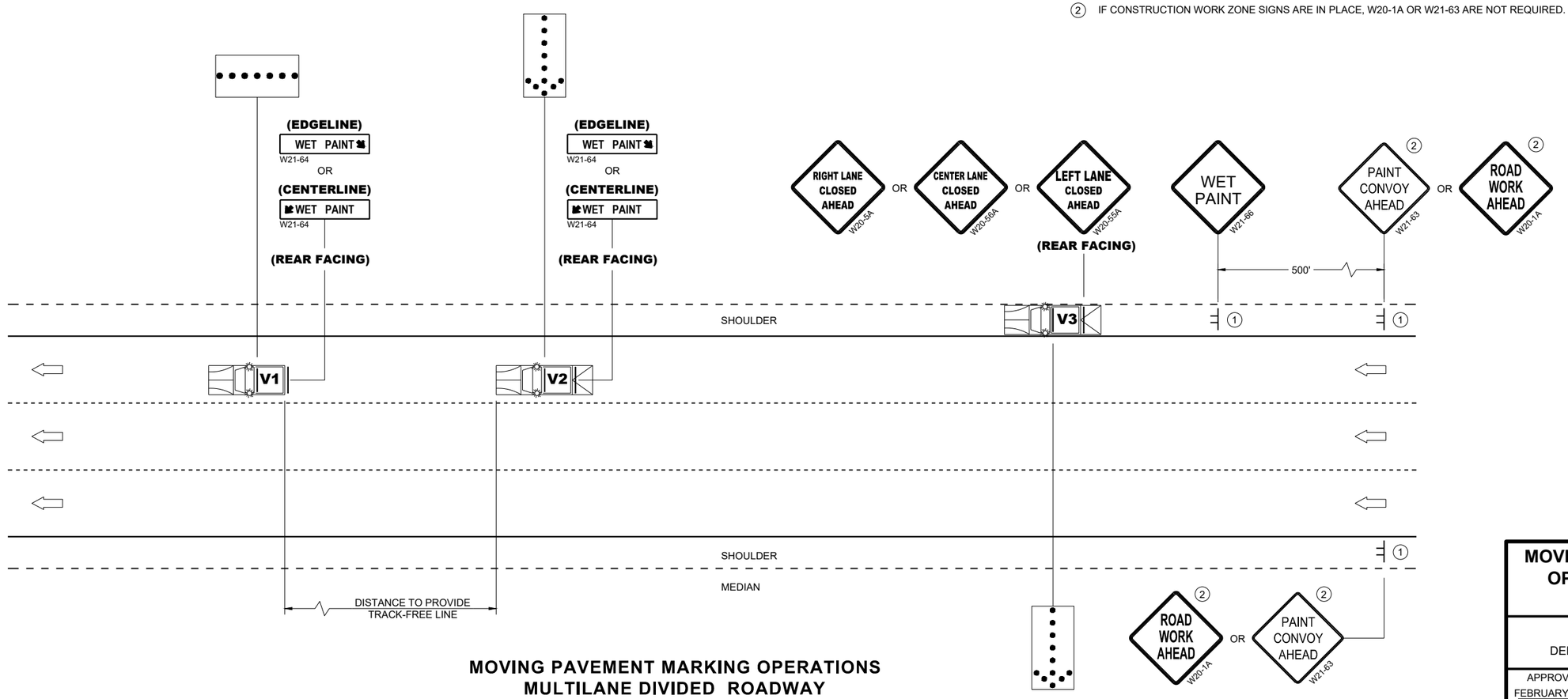
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

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 28" 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
FEBRUARY 2025
DATE

/S/ Andrew Heidtke
STATE ELECTRICAL ENGINEER

FHWA

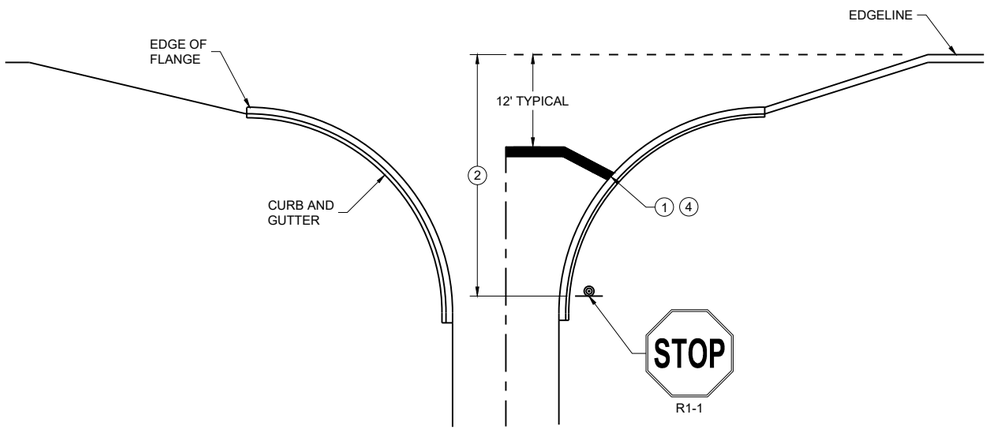
6

SDD 15C19-10c

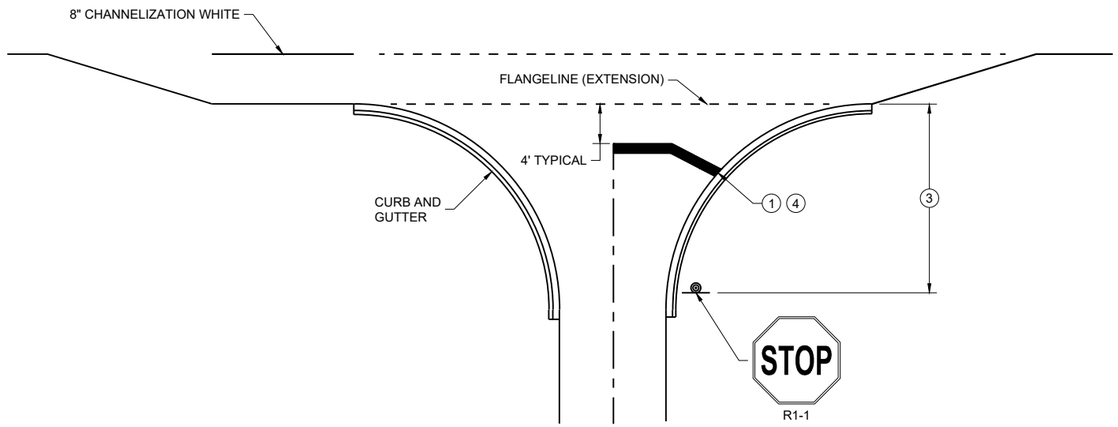
GENERAL NOTES

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

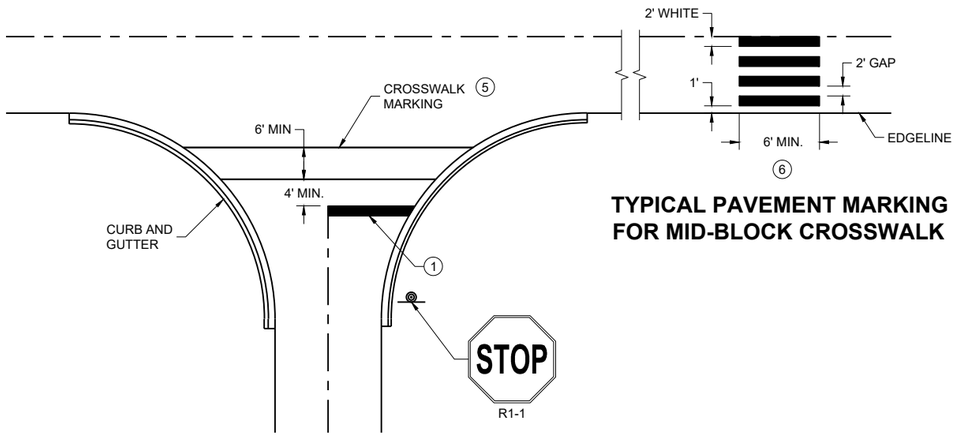
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE 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.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

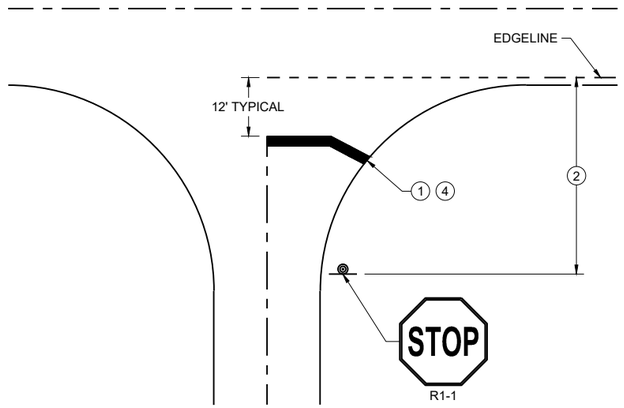


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS 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
March 2024 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

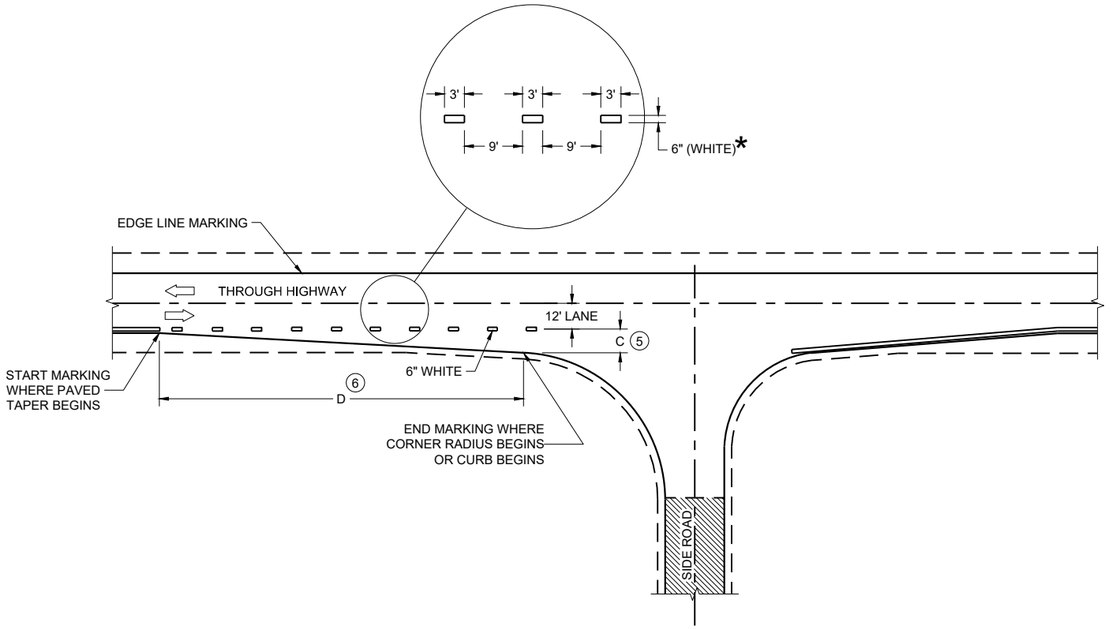
FHWA

6

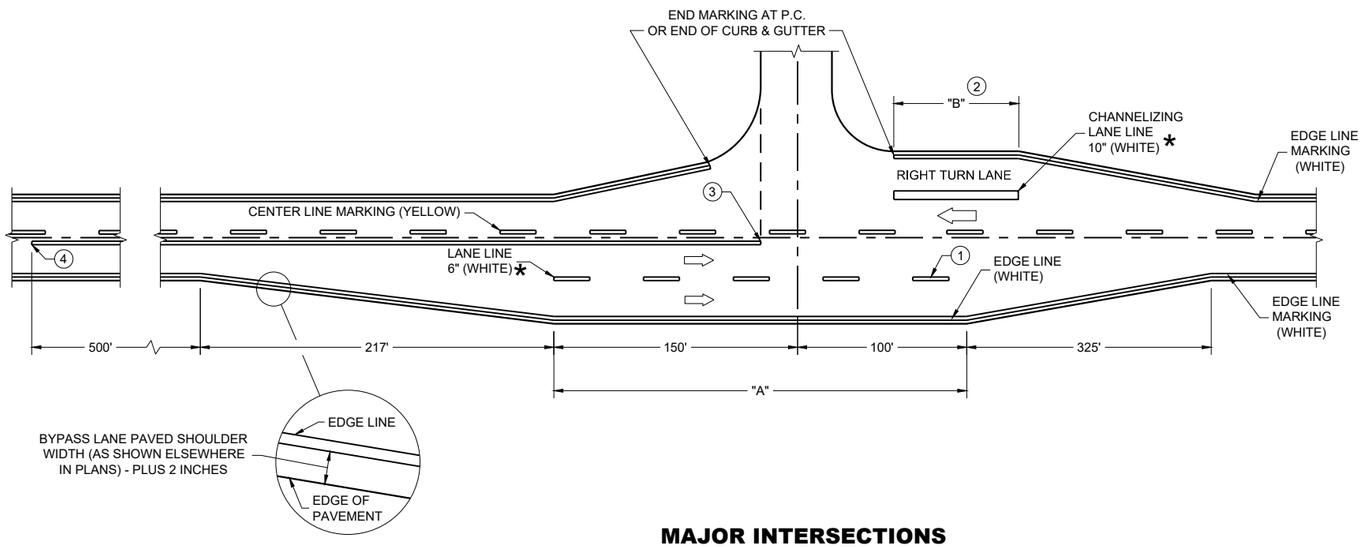
SDD 15C33-05

6

SDD 15C33-05



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

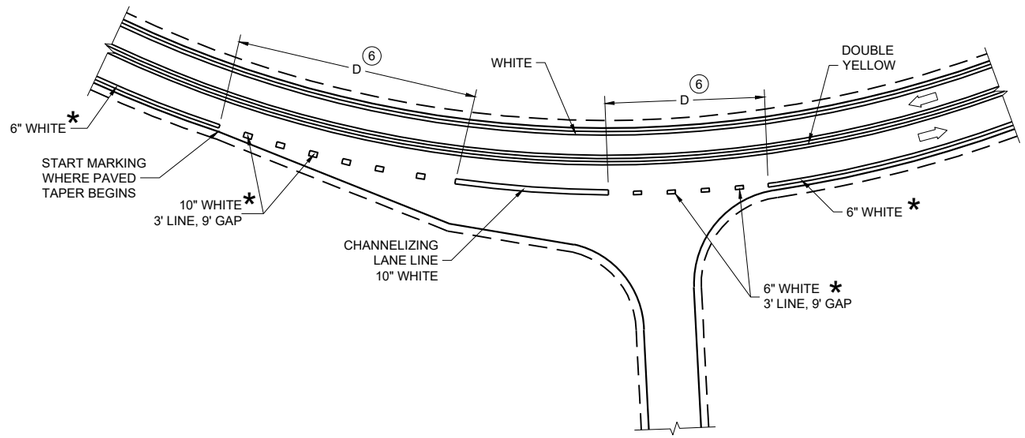
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

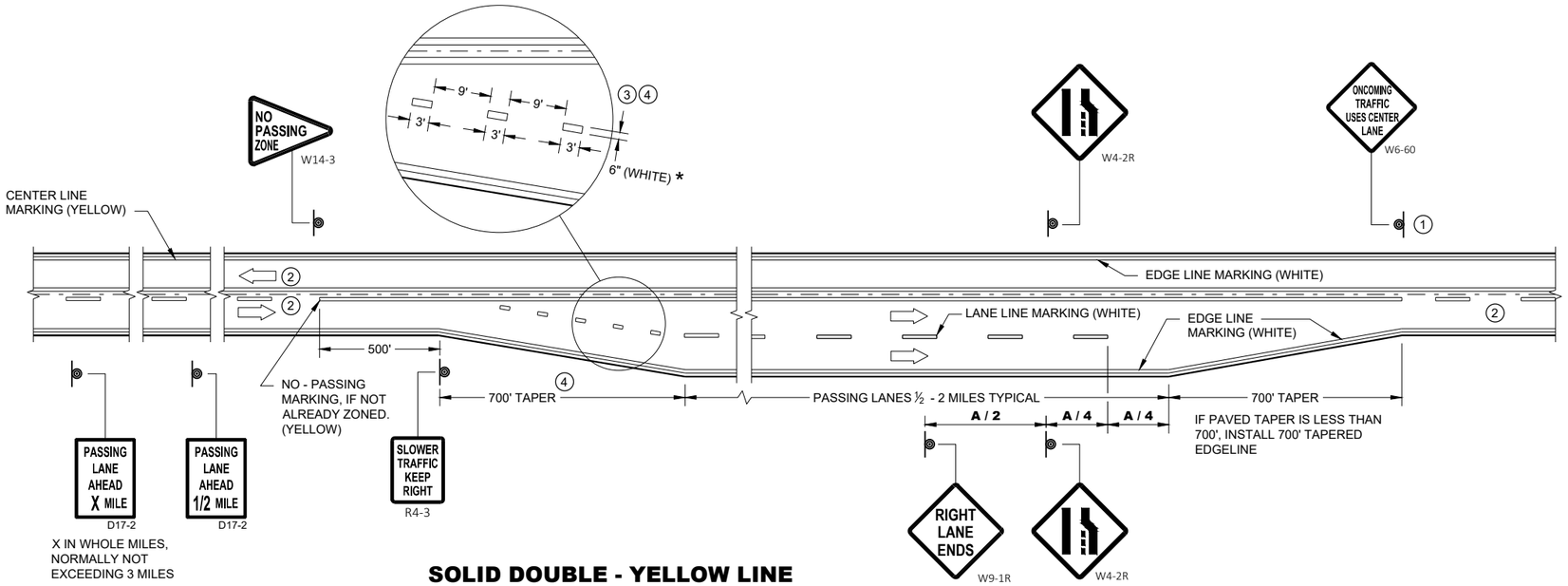
DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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

GENERAL NOTES

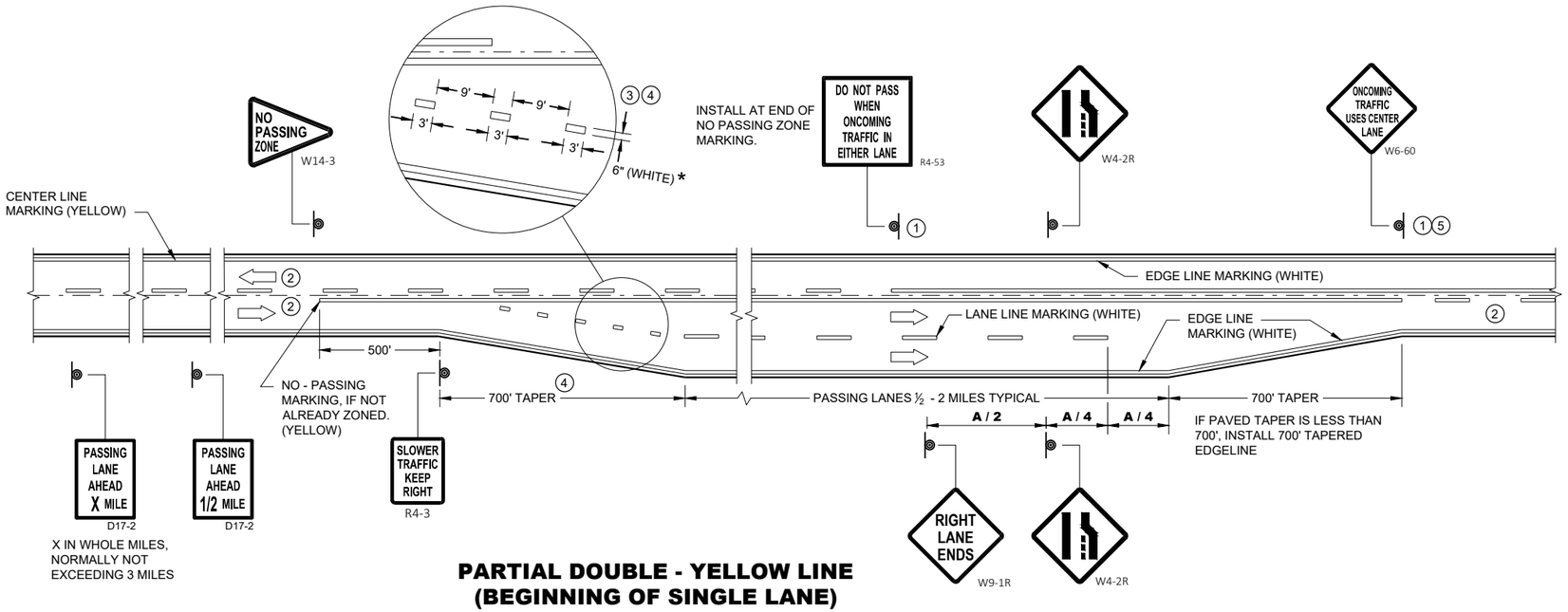
1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE -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

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

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

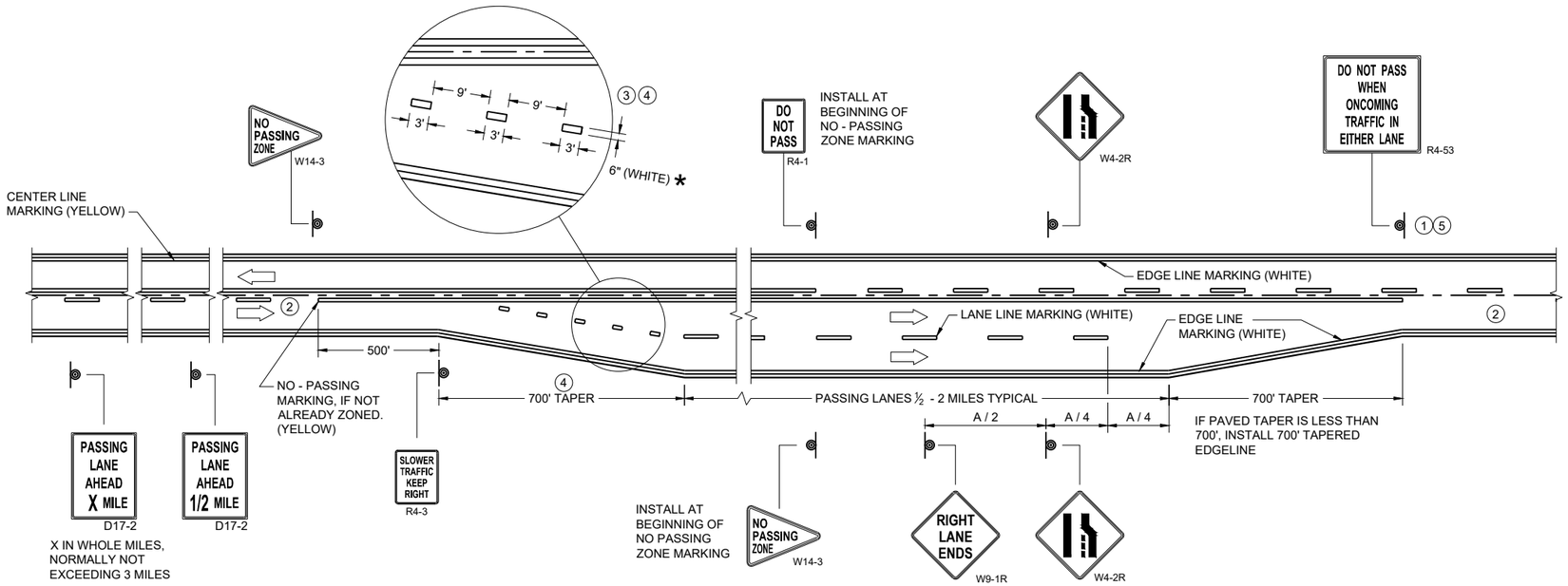
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



PARTIAL DOUBLE - YELLOW LINE
(BEGINNING OF SINGLE LANE)

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

6
SDD 15C35-06b



SOLID DOUBLE - YELLOW LINE
(END OF SINGLE LANE)

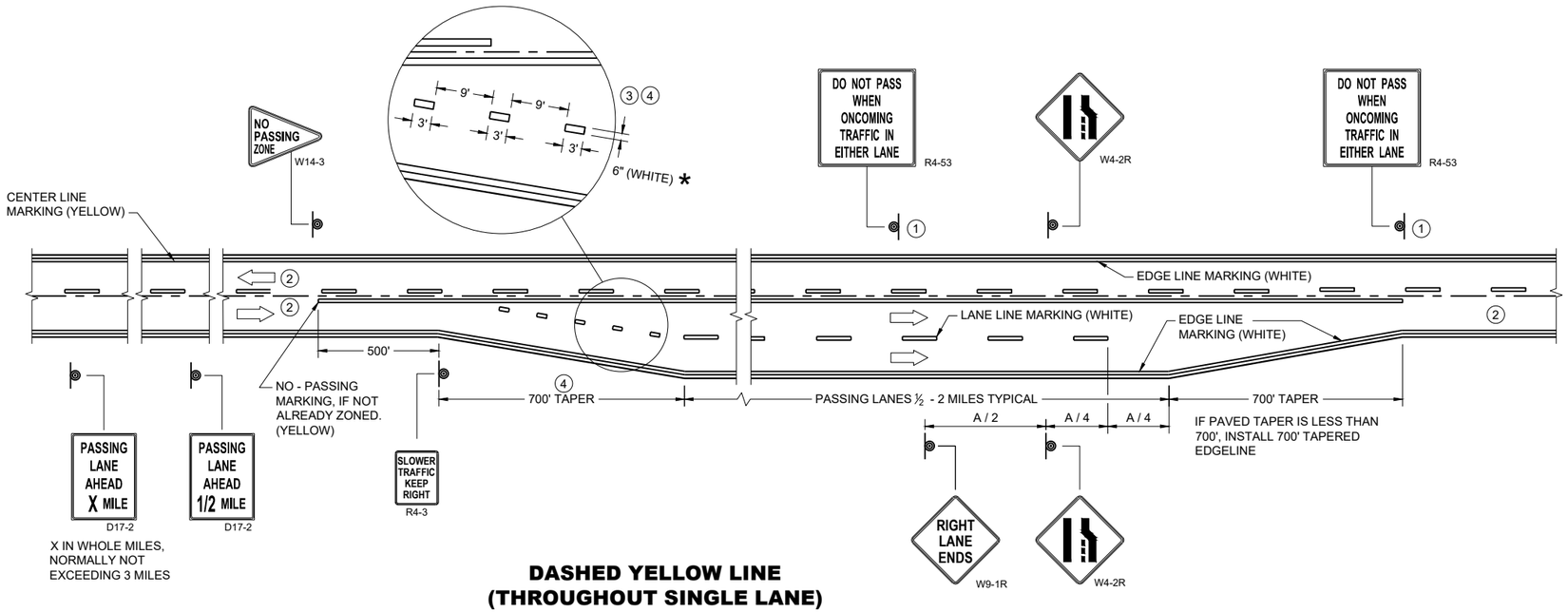
GENERAL NOTES

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

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

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



DASHED YELLOW LINE
(THROUGHOUT SINGLE LANE)

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer
FHWA

6
SDD 15C35-06c

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

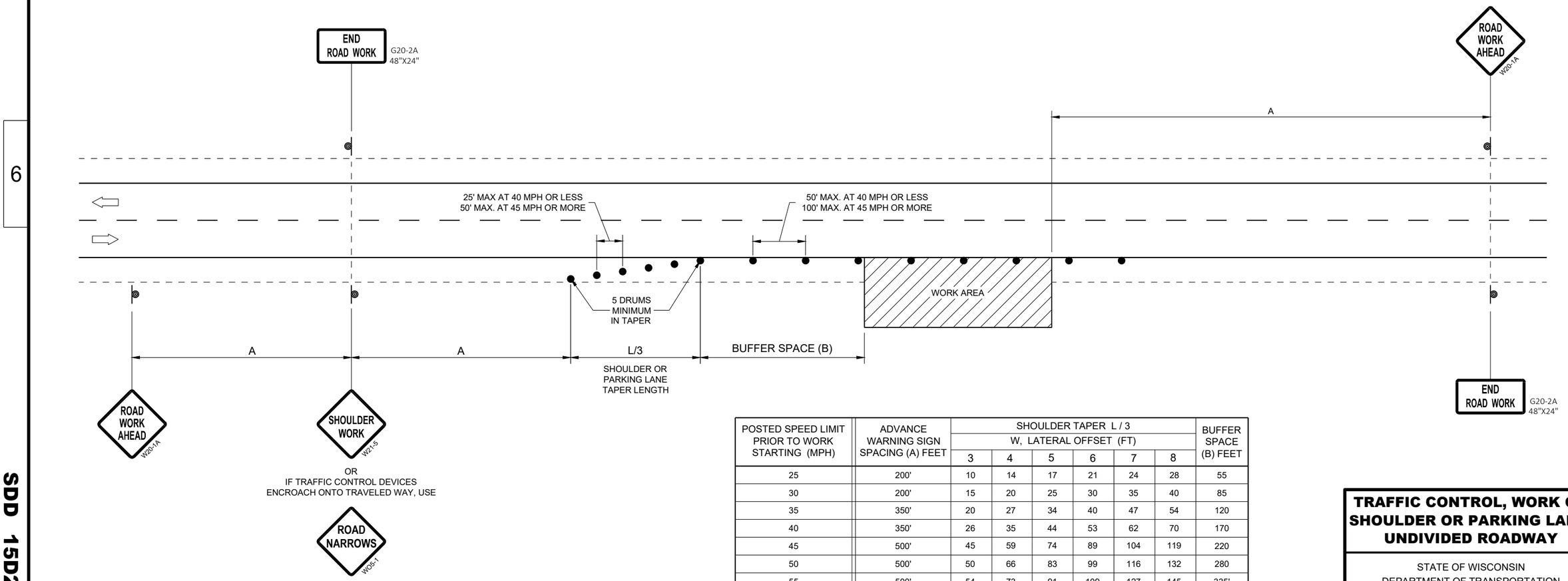
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

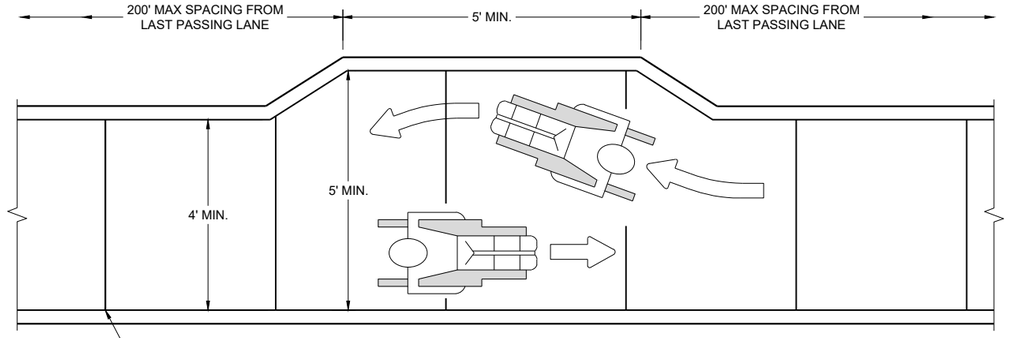
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

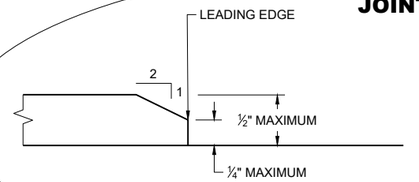
6

SDD 15D28 - 04

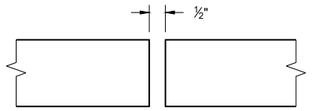


NARROW SIDEWALK PASSING DETAIL

JOINT ALLOWANCES



MAXIMUM VERTICAL GAP



MAXIMUM HORIZONTAL GAP

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

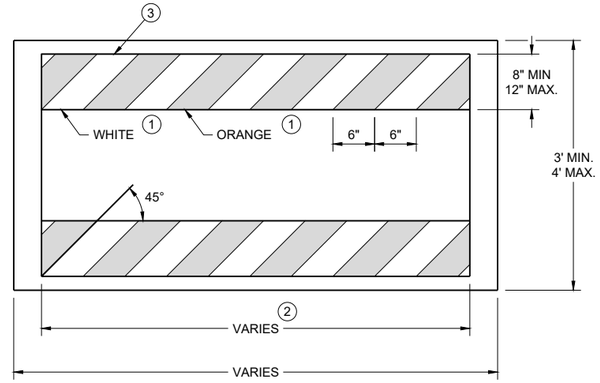
(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

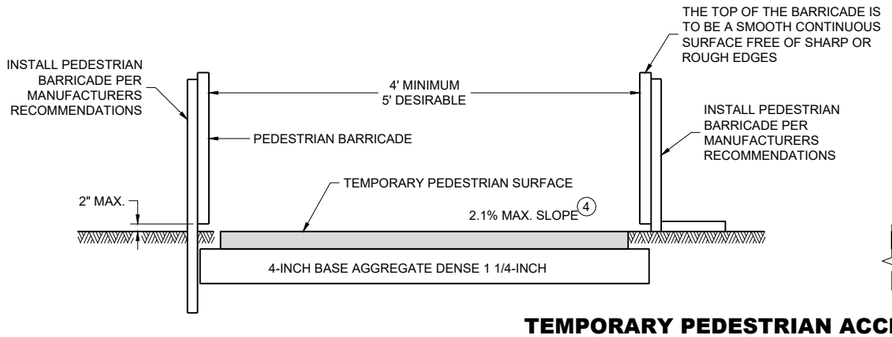
(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

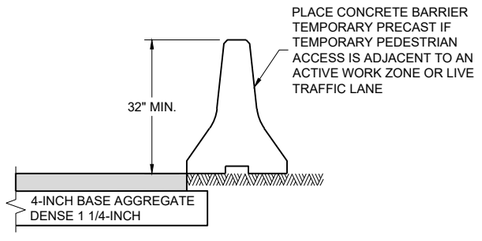
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

(4) WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.



TEMPORARY PEDESTRIAN BARRICADE *



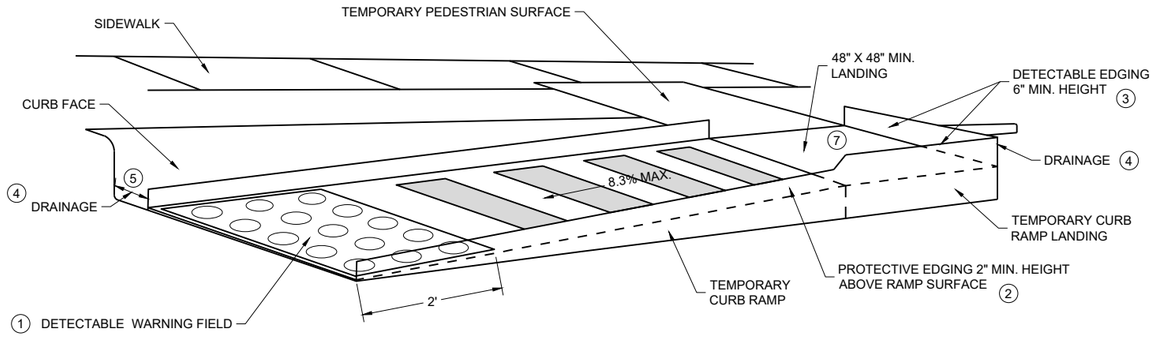


TEMPORARY PEDESTRIAN ACCESS

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 15D30-11a



PERSPECTIVE VIEW

GENERAL NOTES

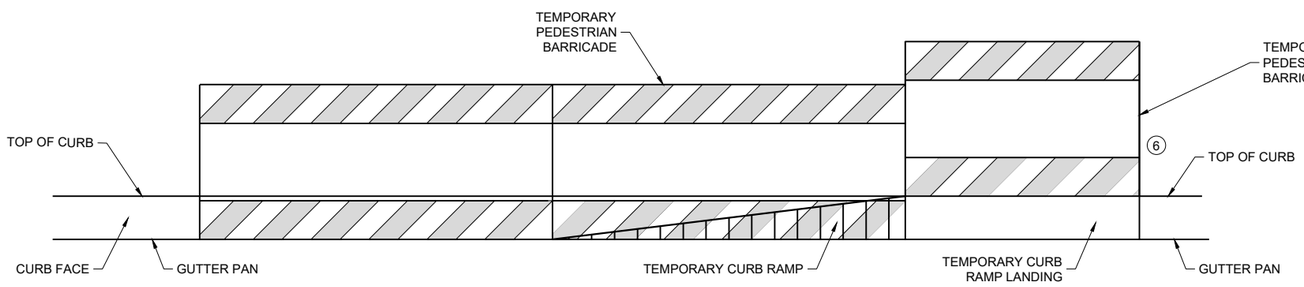
CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:48 (2.1%) MAX. CROSS-SLOPE.

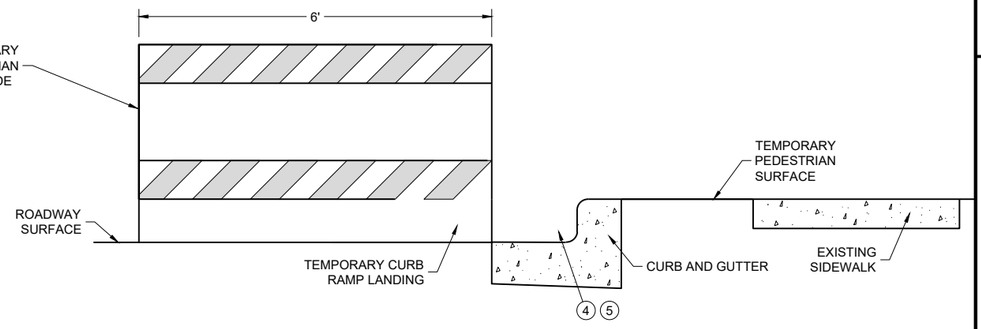
CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

1. INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
5. ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.
6. IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.
7. LANDING TO BE SLOPED A MAXIMUM OF 2.1% IN ALL DIRECTIONS OF PEDESTRIAN TRAVEL.



FRONT VIEW



SIDE VIEW

TEMPORARY CURB RAMP PARALLEL TO CURB

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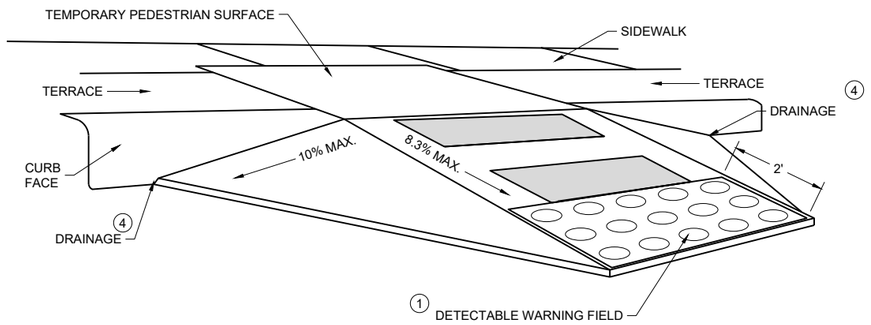
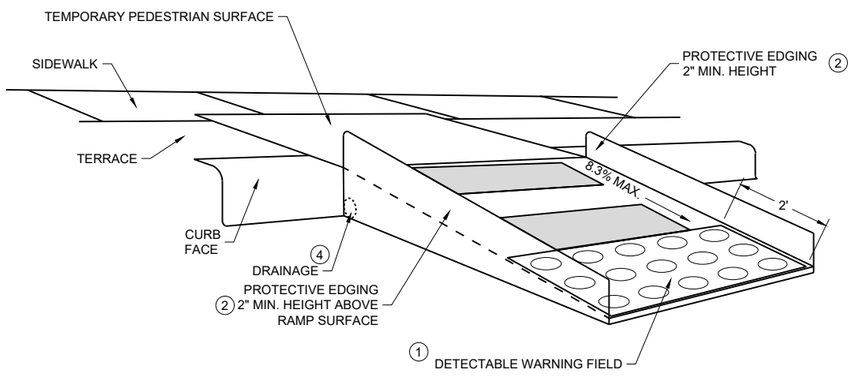
SDD 15D30-11b

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:48 (2.1%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

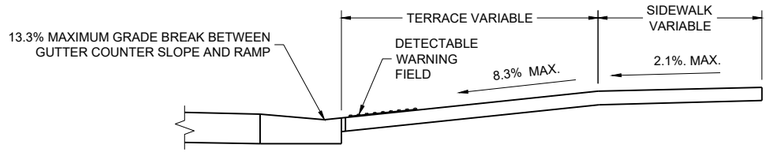
(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

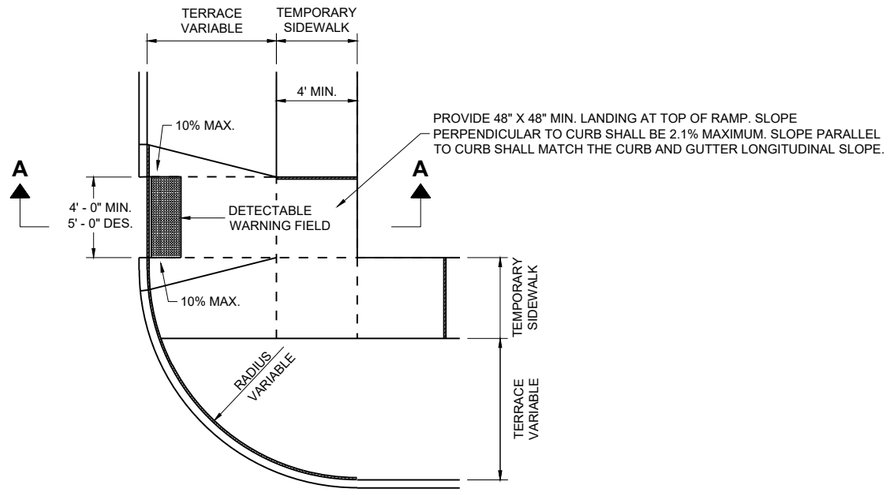
(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.



SECTION A - A



PLAN VIEW
TEMPORARY TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

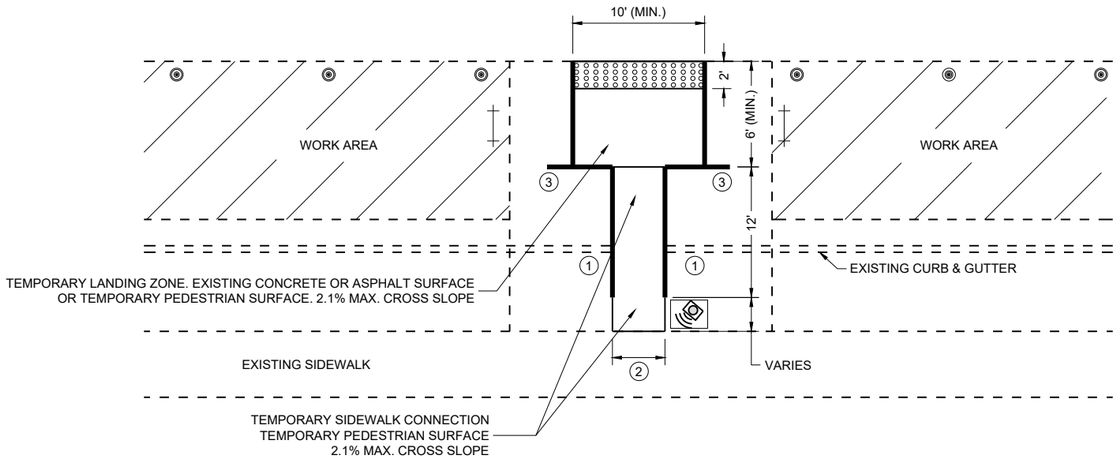
6

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

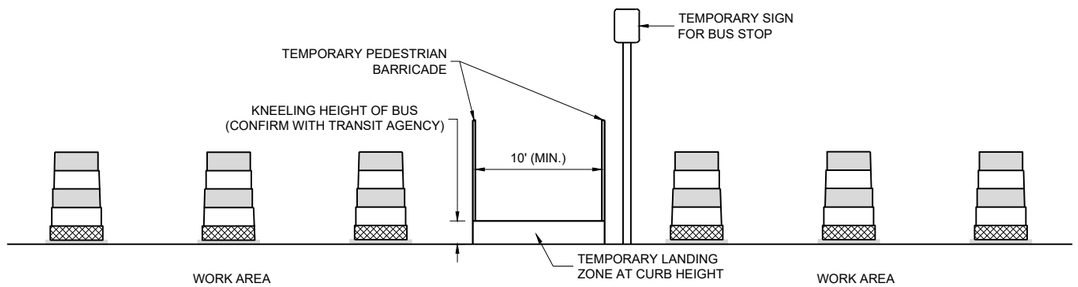
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

SDD 15D30-11d



PLAN VIEW



PROFILE VIEW TEMPORARY BUS STOP PAD

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:48 (2.1%) MAX. CROSS-SLOPE.

(1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.

(3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY DETECTABLE WARNING FIELD
- WORK AREA
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

6

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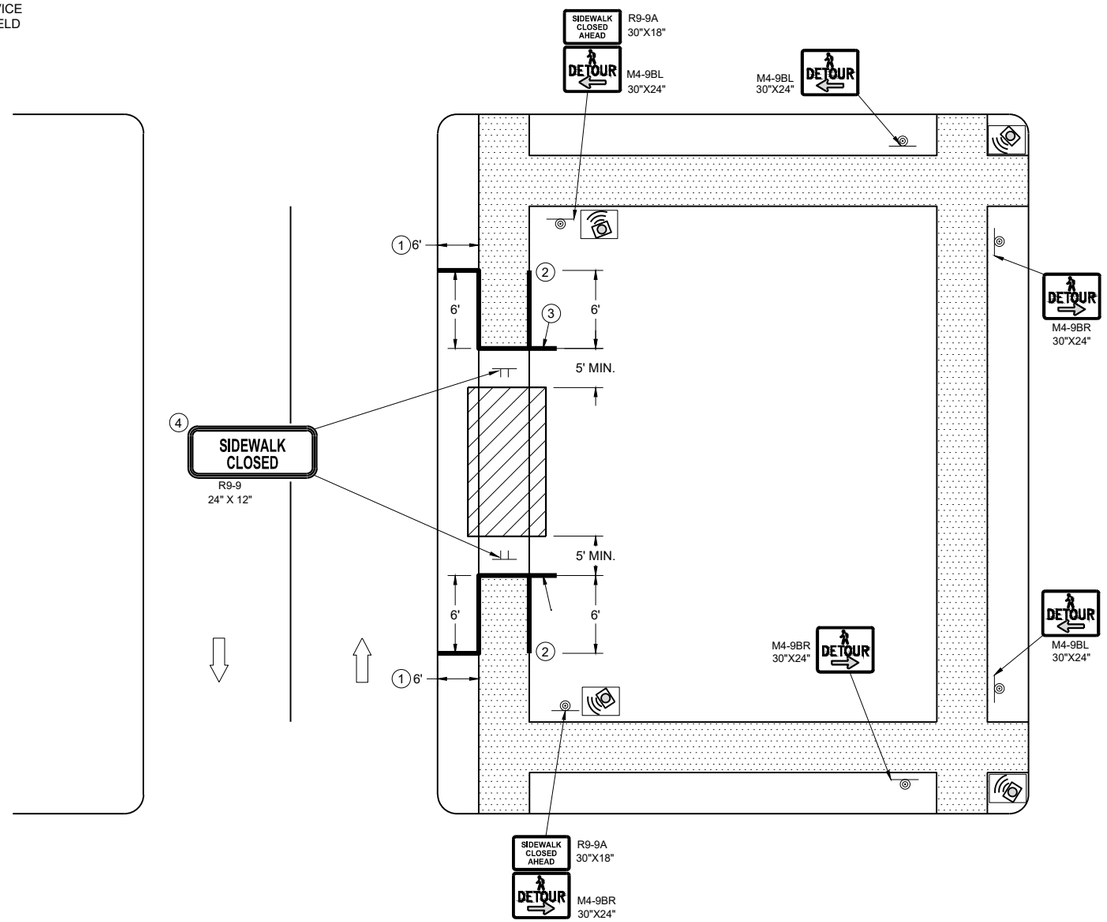
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-11f

LEGEND

SIGN ON TEMPORARY SUPPORT

WORK AREA

UNDER PEDESTRIAN TRAFFIC

TEMPORARY PEDESTRIAN SURFACE

TEMPORARY PEDESTRIAN BARRICADE

OPTIONAL TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

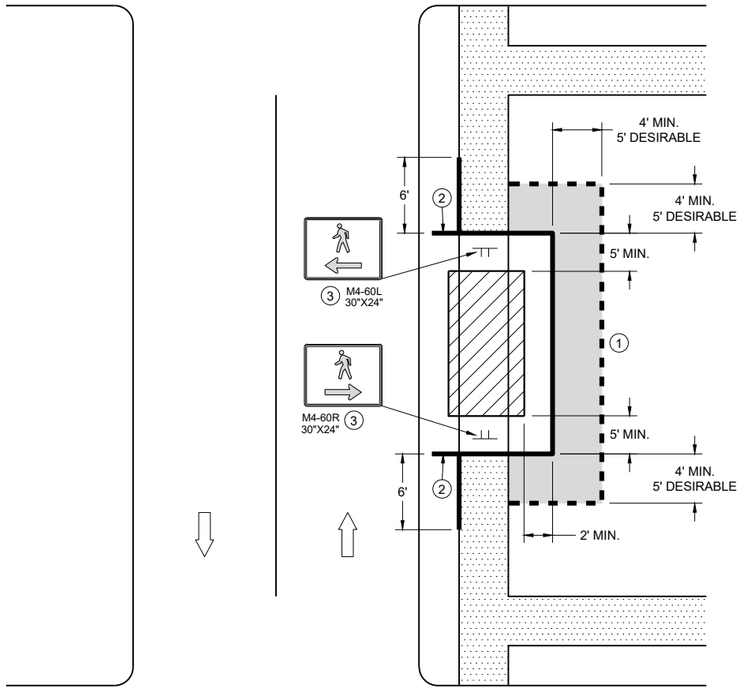
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

(1) USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.

(2) IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.

(3) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK BYPASS
SINGLE SIDE

6

SDD 15D30-11g

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SDD 15D30-11g

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

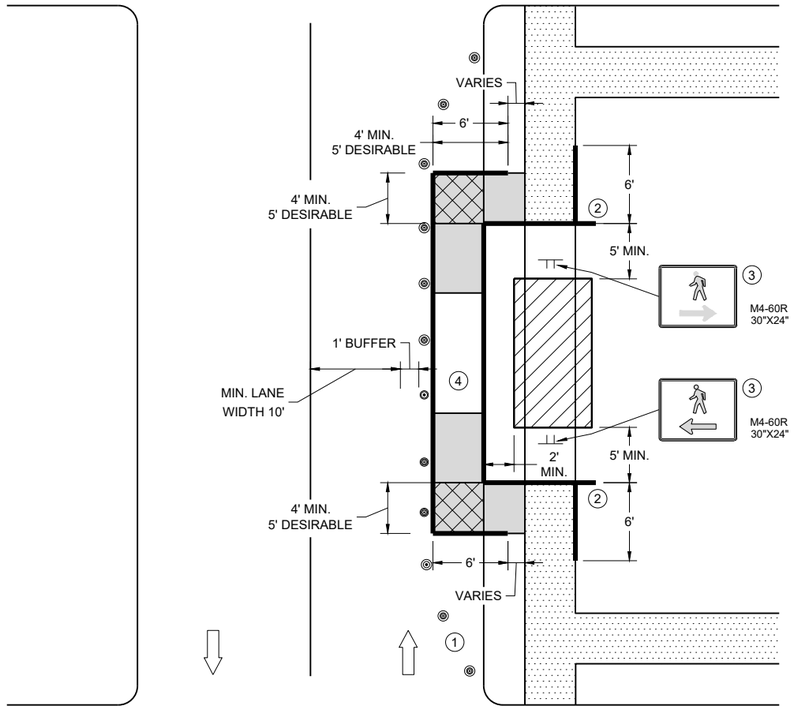
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.

(2) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.

(3) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

(4) USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURFACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE. WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.



SIDEWALK BYPASS, SINGLE SIDE

6

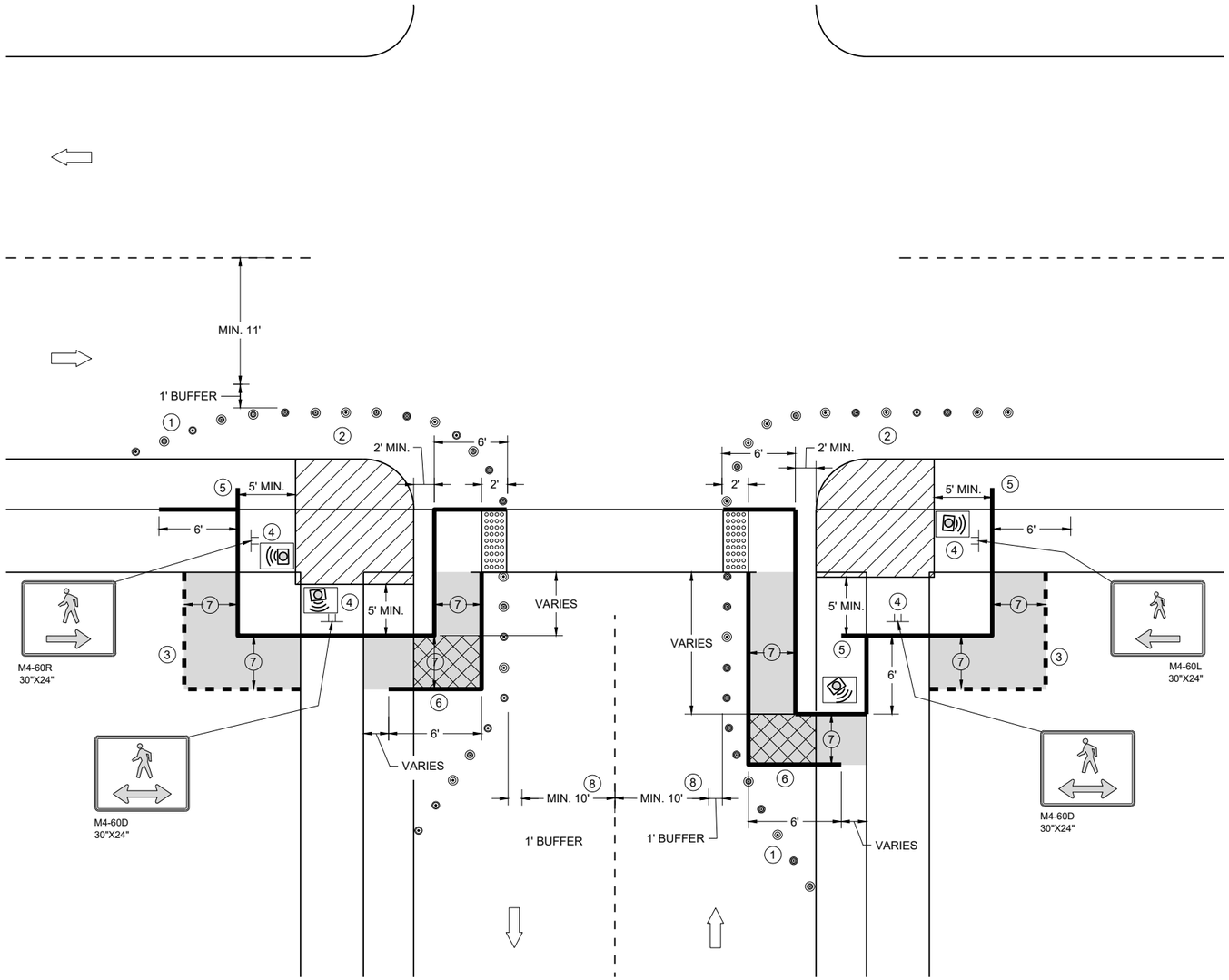
SDD 15D30-11h

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-11h



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
7. 4 FEET MINIMUM, 5 FEET DESIRABLE
8. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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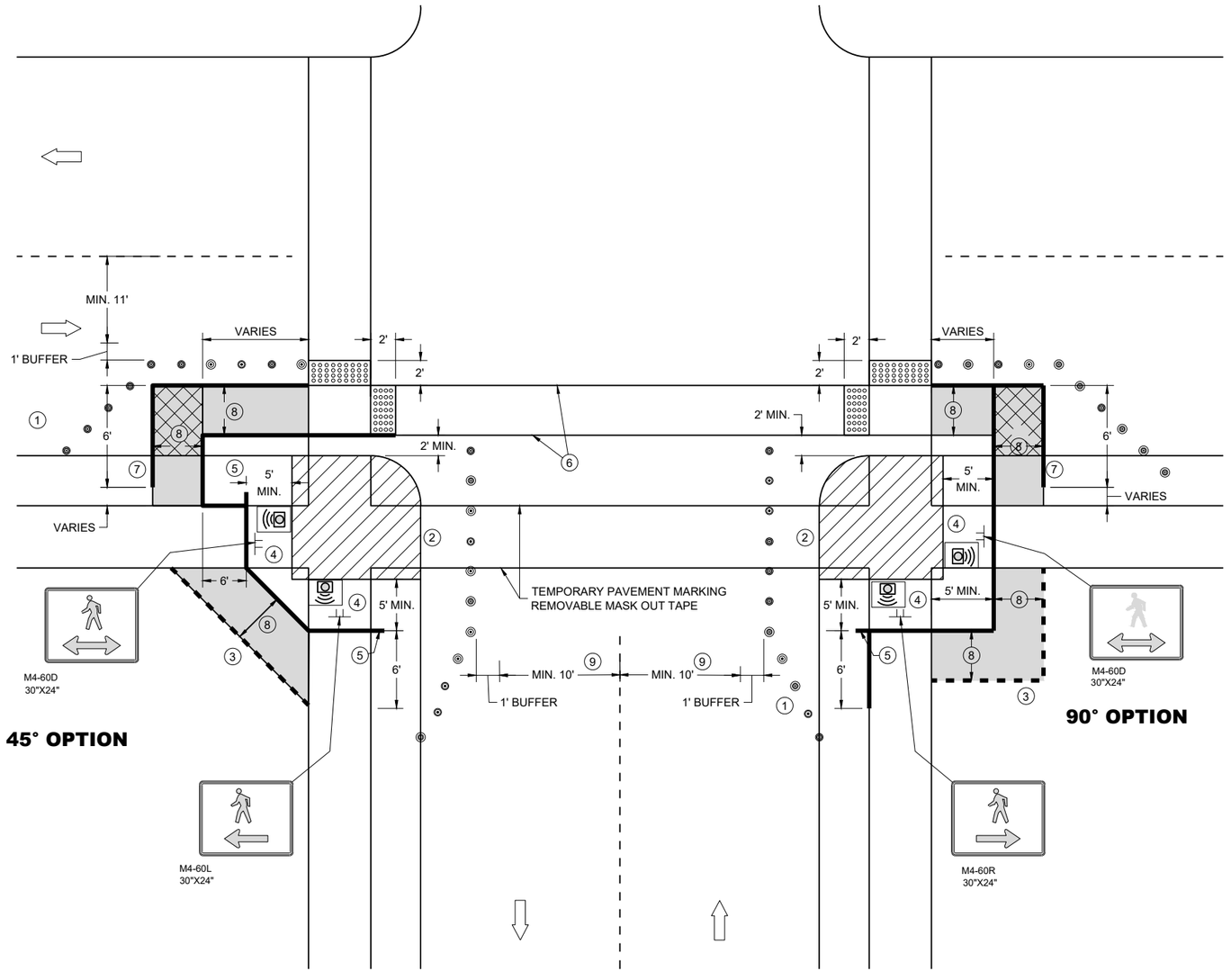


CURB RAMP PEDESTRIAN TRAFFIC CONTROL

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. WHITE 6" TEMPORARY PAVEMENT MARKING
7. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
8. 4 FEET MINIMUM, 5 FEET DESIRABLE
9. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

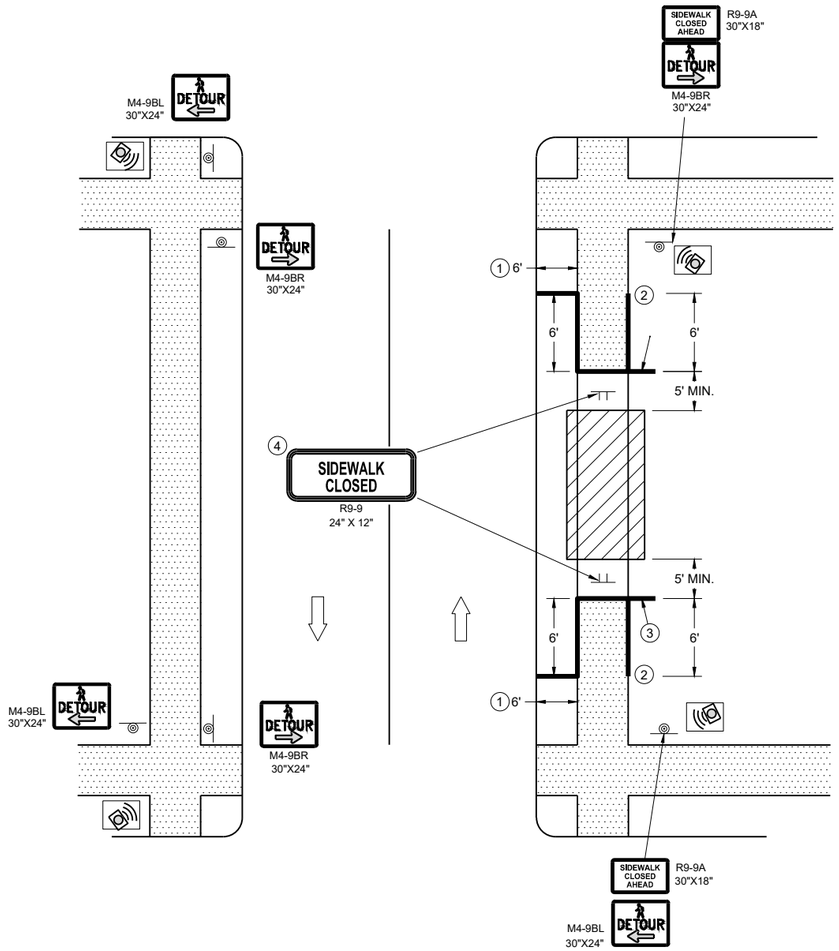
UNDER PEDESTRIAN TRAFFIC

WORK AREA

TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC

TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)



SIDEWALK DETOUR, SIDEWALK ON BOTH SIDES

GENERAL NOTES

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICT WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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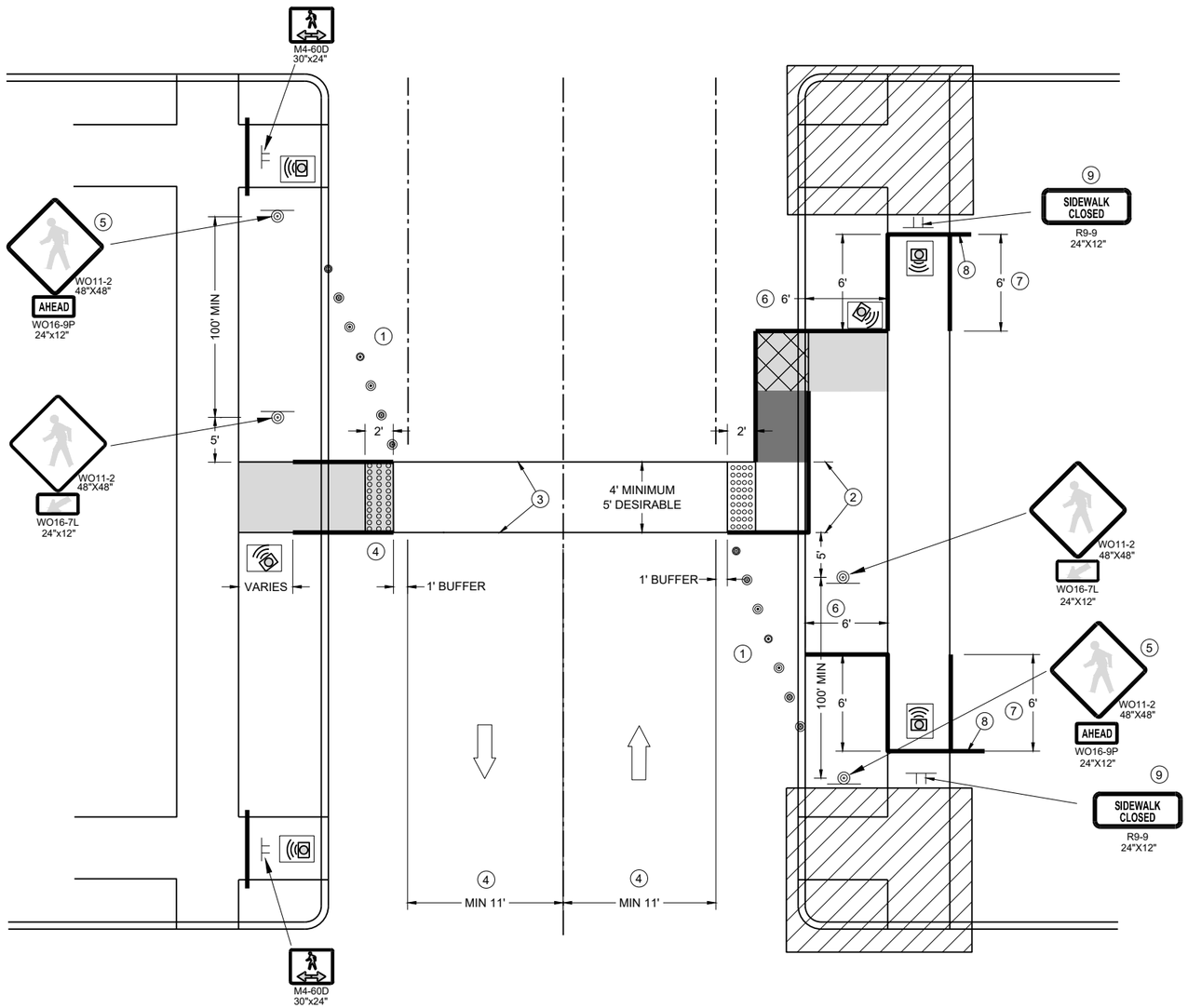
SDD 15D30-11k



TEMPORARY PEDESTRIAN CROSSING

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SEE OTHER PEDESTRIAN ACCOMMODATION DETAILS FOR SIGNING AND DEVICES FOR DIFFERENT PEDESTRIAN FACILITIES CLOSURES.

WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

1. SHOULDER OR LANE CLOSURE ADVANCED WARNING AND PROPER BUFFER SPACE REQUIRED.
2. 4 FEET MINIMUM, 5 FEET DESIRABLE.
3. WHITE 6" TEMPORARY PAVEMENT MARKING.
4. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, PERPENDICULAR CURB RAMPS MAY NEED TO BE UTILIZED.
5. IF MINIMUM 100' SPACING FROM THE MID-BLOCK CROSSING CANNOT BE ATTAINED BEFORE THE INTERSECTION, REMOVE THIS SIGN ASSEMBLY.
6. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
7. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
8. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF THE EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
9. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF THE SIGN.

LEGEND

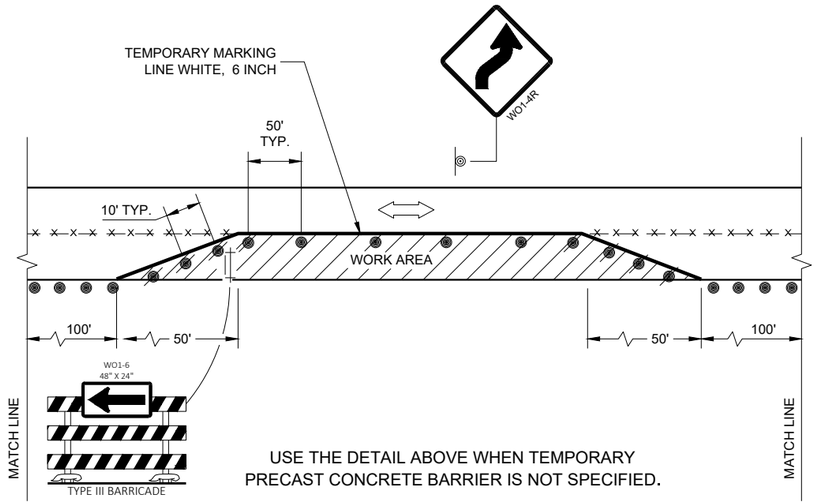
- TRAFFIC CONTROL DRUM
- SIGN ON TEMPORARY SUPPORT
- TEMPORARY CURB RAMP
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLAGS, 16" X 16" MIN. (ORANGE)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- ASPHALTIC PAVEMENT WIDENING
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SIGNAL. SEE SDD 09G02 FOR EXACT PLACEMENT



USE THE DETAIL ABOVE WHEN TEMPORARY PRECAST CONCRETE BARRIER IS NOT SPECIFIED.

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 TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE..

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

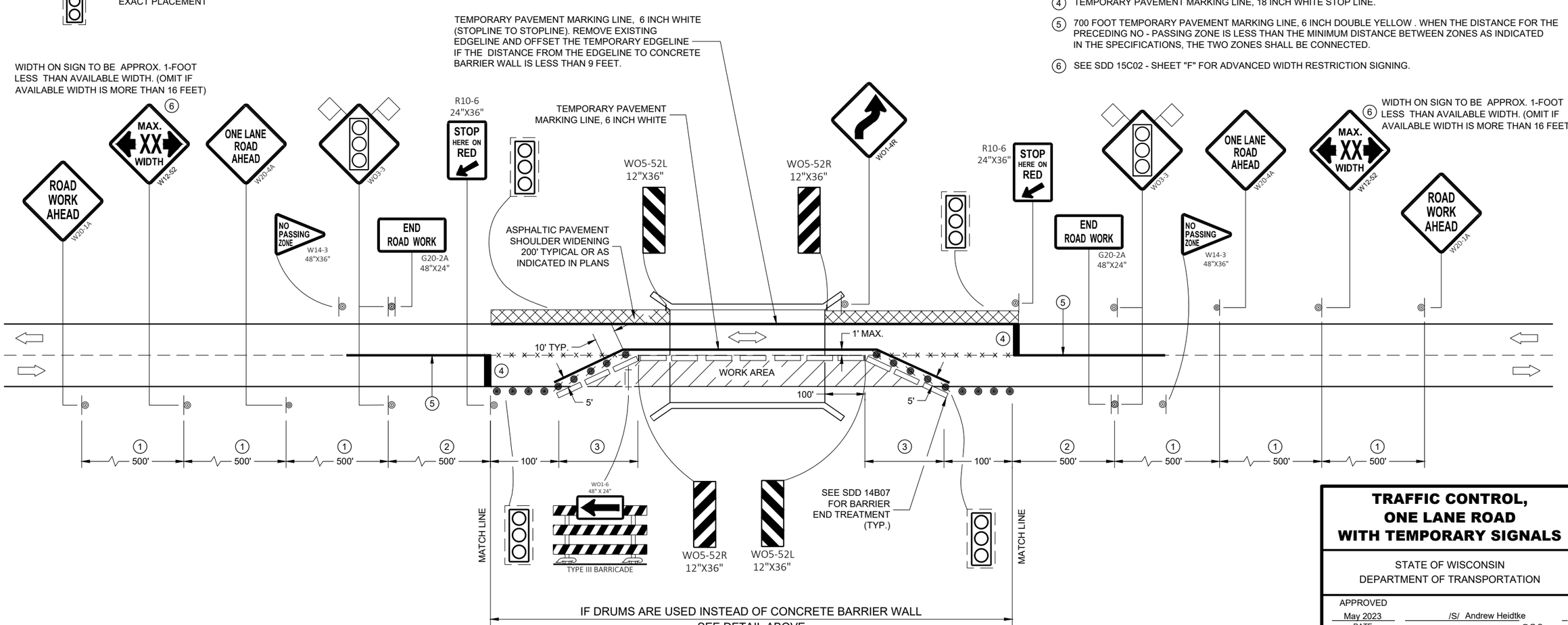
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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.

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

INSTALL OVERHEAD TEMPORARY SIGNAL HEADS ABOVE THE MIDDLE OF THE TRAVEL LANE THEY ARE CONTROLLING.

1. 500 FOOT SPACING SHOWN IS FOR ROADWAYS WITH A PRE-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35 - 40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25 - 30 MPH, USE 200 FOOT TYPICAL SPACING.
2. USE 300 FOOT SPACING IF THE PRE - CONSTRUCTION REGULATORY SPEED IS 35 MPH OR LESS.
3. DIMENSION DETERMINED BY CBTP TAPER FROM EDGE LINE TO TANGENT SECTION OF THE ROAD.
4. TEMPORARY PAVEMENT MARKING LINE, 18 INCH WHITE STOP LINE.
5. 700 FOOT TEMPORARY PAVEMENT MARKING LINE, 6 INCH DOUBLE YELLOW . WHEN THE DISTANCE FOR THE PRECEDING NO - PASSING ZONE IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES AS INDICATED IN THE SPECIFICATIONS, THE TWO ZONES SHALL BE CONNECTED.
6. SEE SDD 15C02 - SHEET "F" FOR ADVANCED WIDTH RESTRICTION SIGNING.



TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

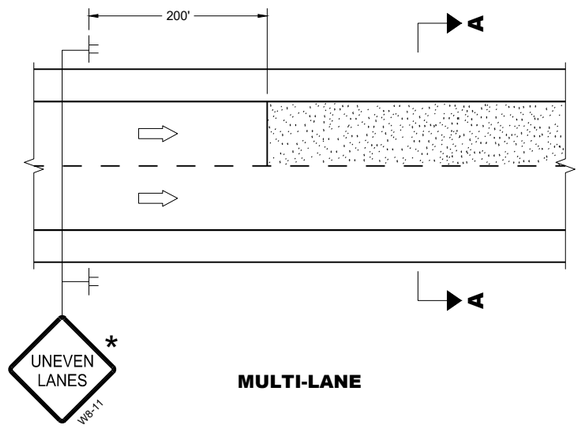
APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

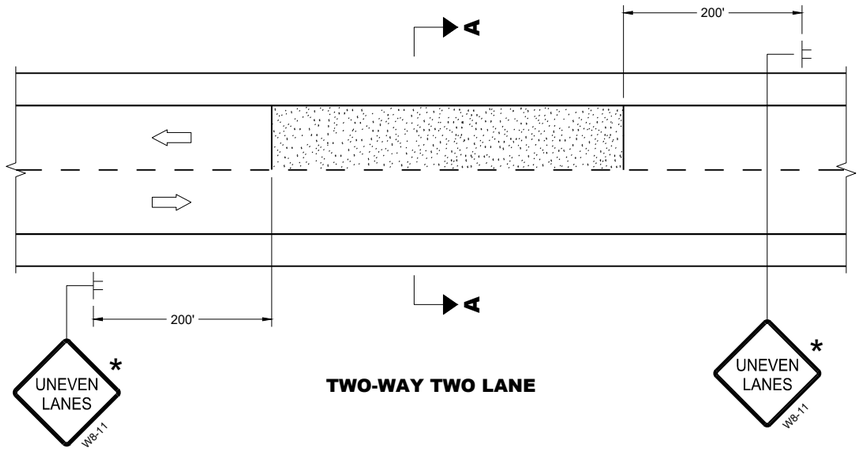
FHWA

SDD 15D33-09

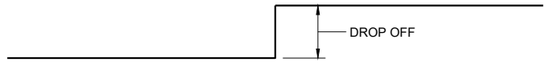
SDD 15D33-09



MULTI-LANE

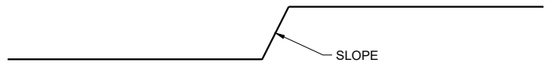


TWO-WAY TWO LANE

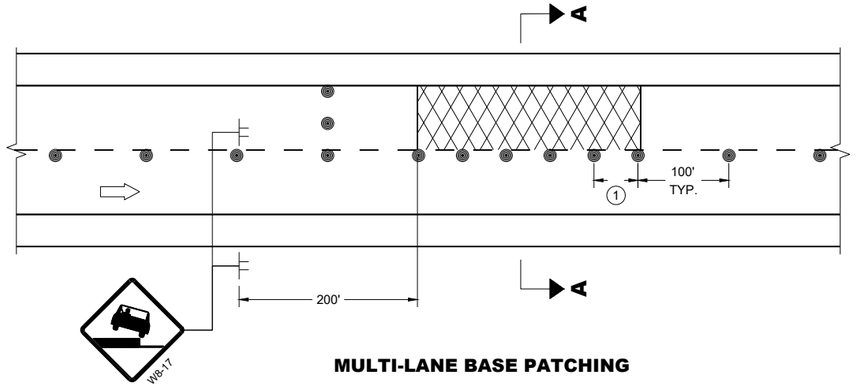


SECTION A - A

OR



SECTION A - A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS

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.

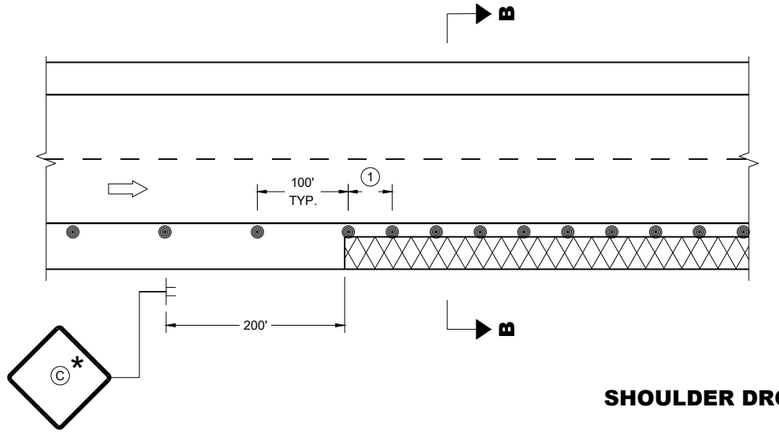
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

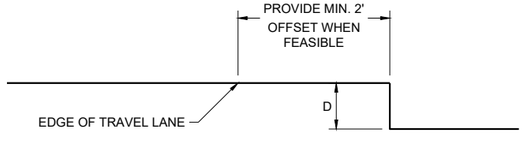
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

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



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A

PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6
SDD 15D39-03

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

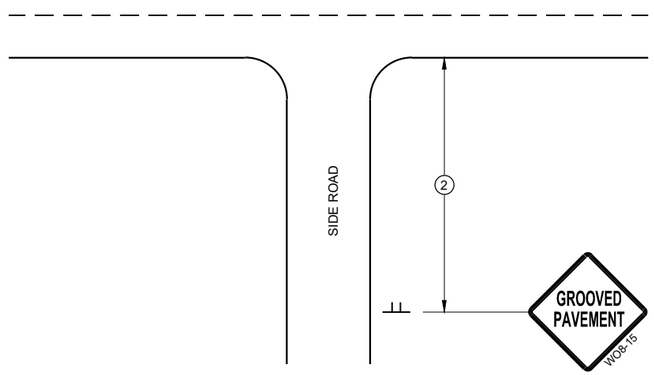
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

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

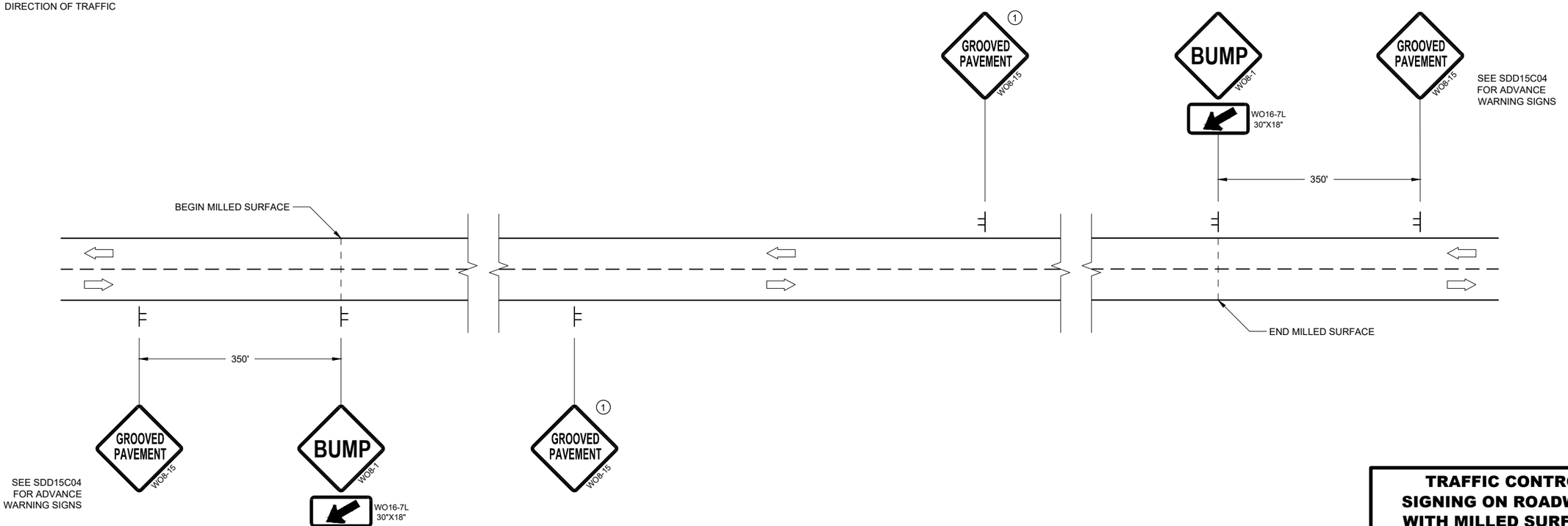
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D44 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

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

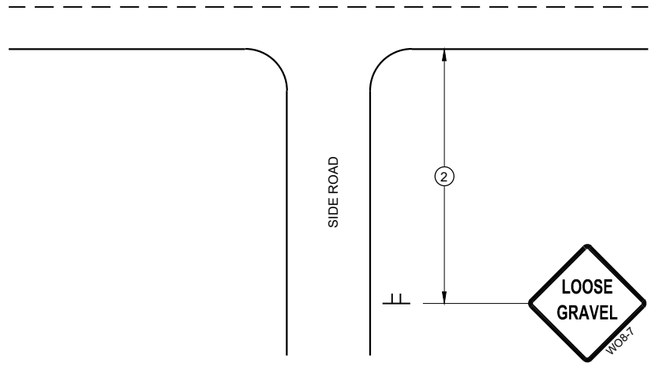
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

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

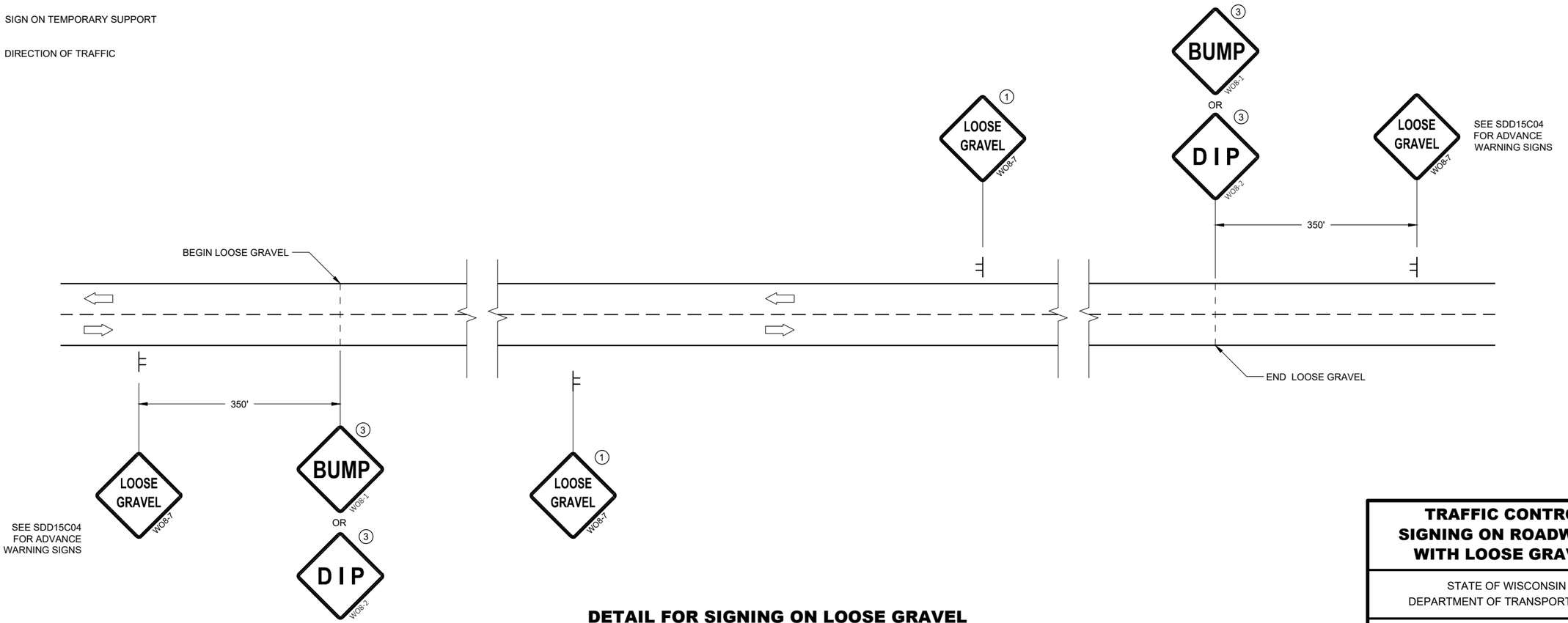
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

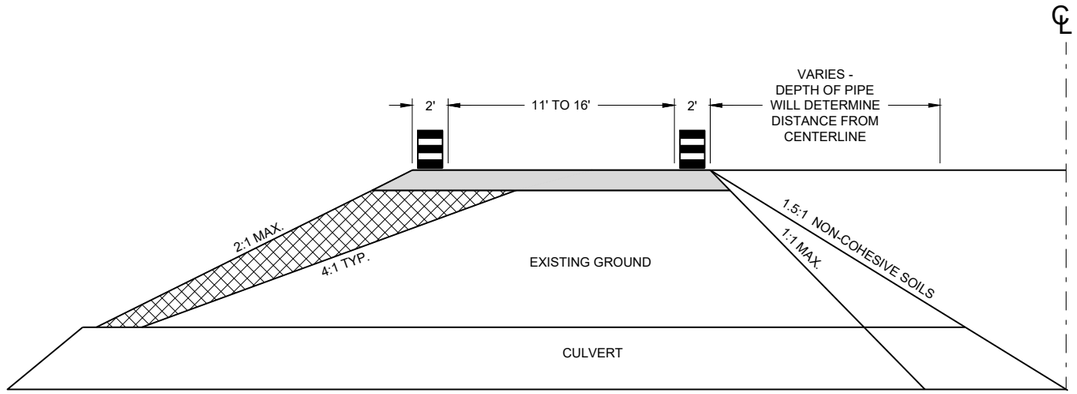
FHWA

6

SDD 15D45 - 03

6

SDD 15D45 - 03



CROSS SECTION

GENERAL NOTES

USE 1:1 FOR COHESIVE CLAYS AND SILTS, LOAMS, SANDY CLAYS AND ANGULAR GRAVEL SOILS.
USE 1.5:1 FOR NON-COHESIVE SOILS.

THE TAPER SHOULD EXTEND ACROSS THE SHOULDER UNLESS DOING SO WOULD GREATLY CONFLICT WITH THE WORK OPERATION.

ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL DEVICES REMOVED BEYOND THE SHOULDER WHEN WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.

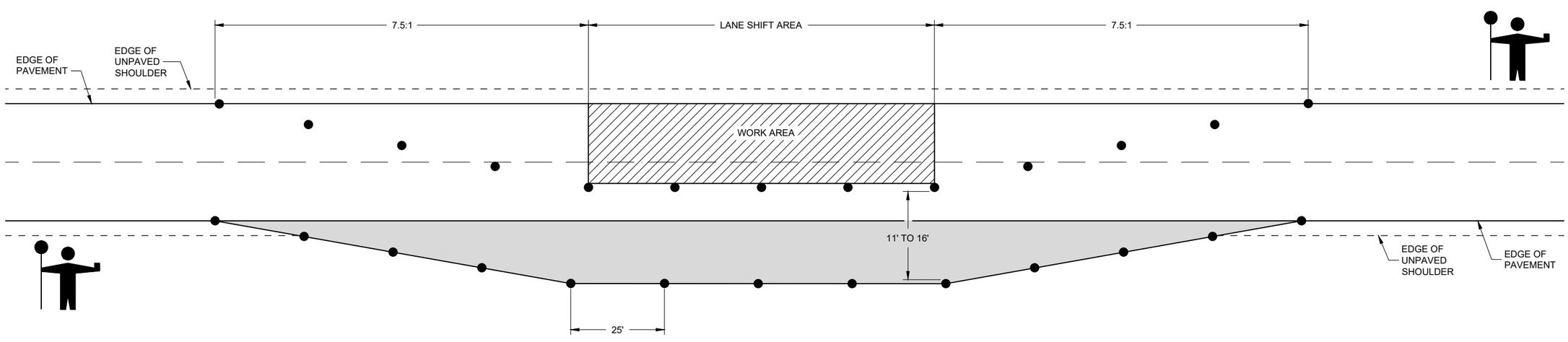
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

USE WITH SDD 15C12 "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"

USE WITH SDD 15D45 "SIGNING ON ROADWAYS WITH LOOSE GRAVEL"

LEGEND

- DRUM WITHOUT WARNING LIGHT
- 6" BASE AGGREGATE DENSE 1 ¼" -INCIDENTAL TO LANE SHIFT ITEM
- FILL - INCIDENTAL TO LANE SHIFT ITEM
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



LANE SHIFT IN FLAGGING OPERATION

TRAFFIC CONTROL, TEMPORARY LANE SHIFT DURING CULVERT WORK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D48 - 01

6

SDD 15D48 - 01

LEGEND

V1 WORK VEHICLE

V2 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

WORK AREA

DIRECTION OF TRAFFIC

POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.

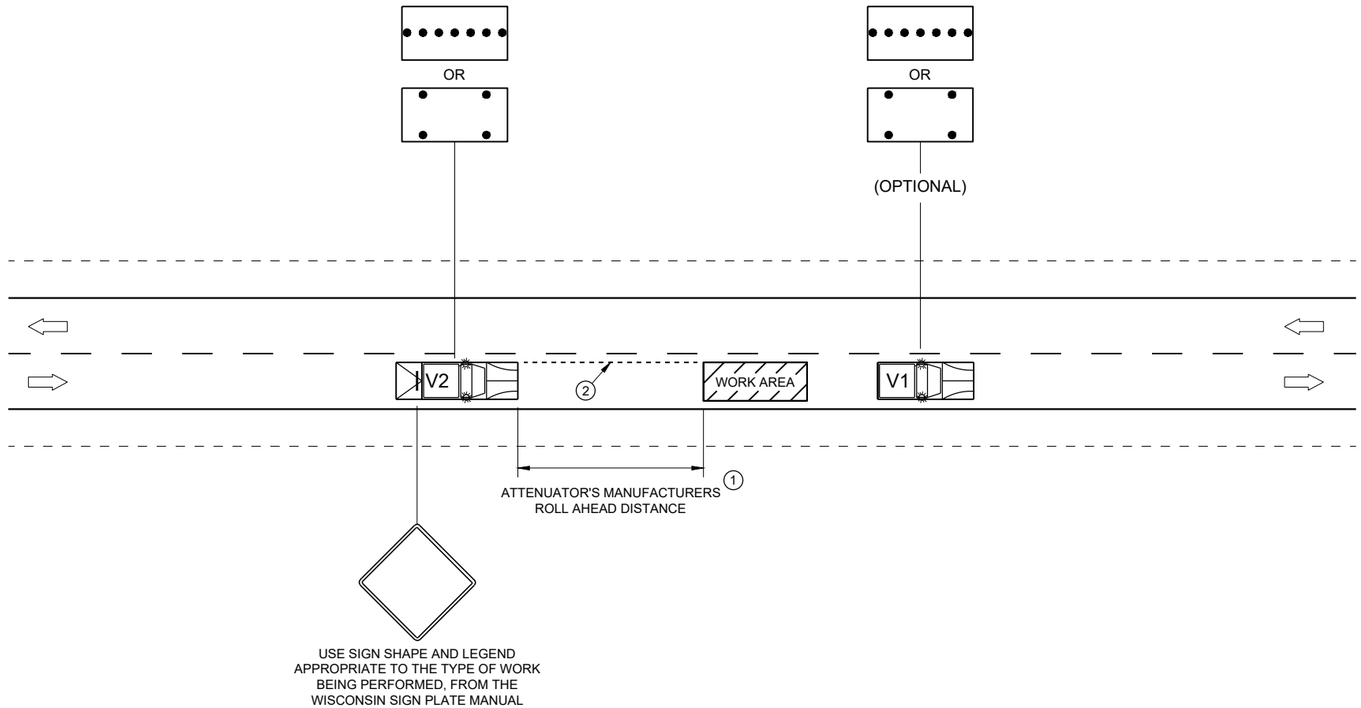
ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

(1) DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

(2) ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.

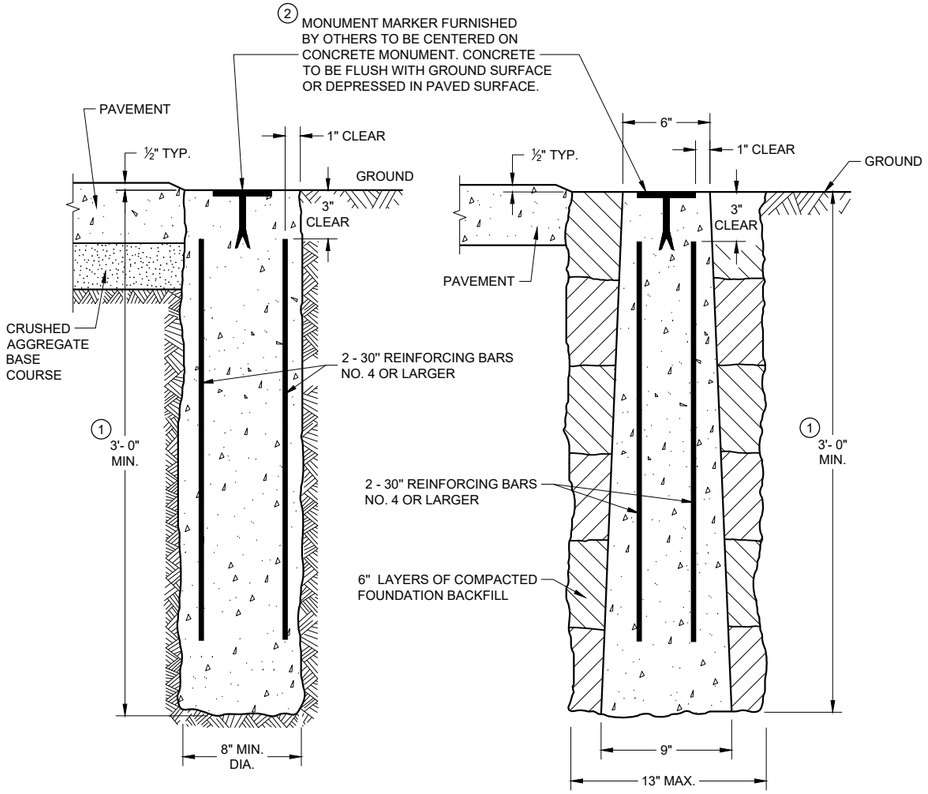


TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

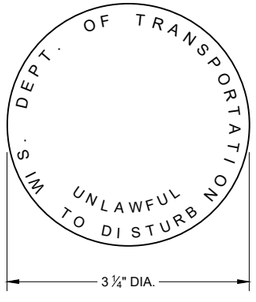
APPROVED
February 2021 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

6
SDD 15D51 - 01



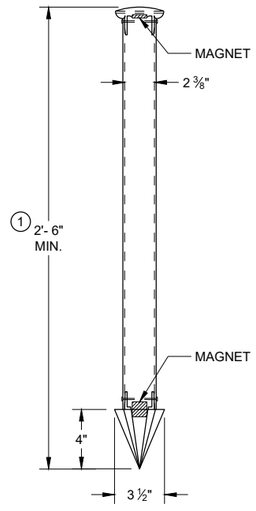
CAST-IN-PLACE **PRECAST**

CONCRETE MONUMENTS
TYPE A

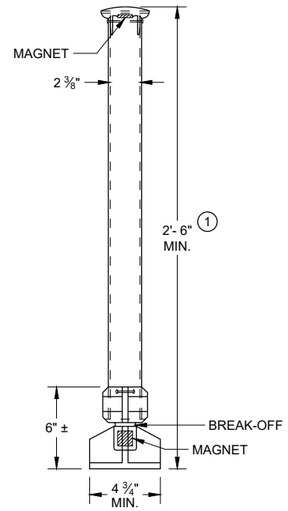


② **WIS DOT MONUMENT MARKER LOGO**

FOR TYPES "A", "C" & "D"

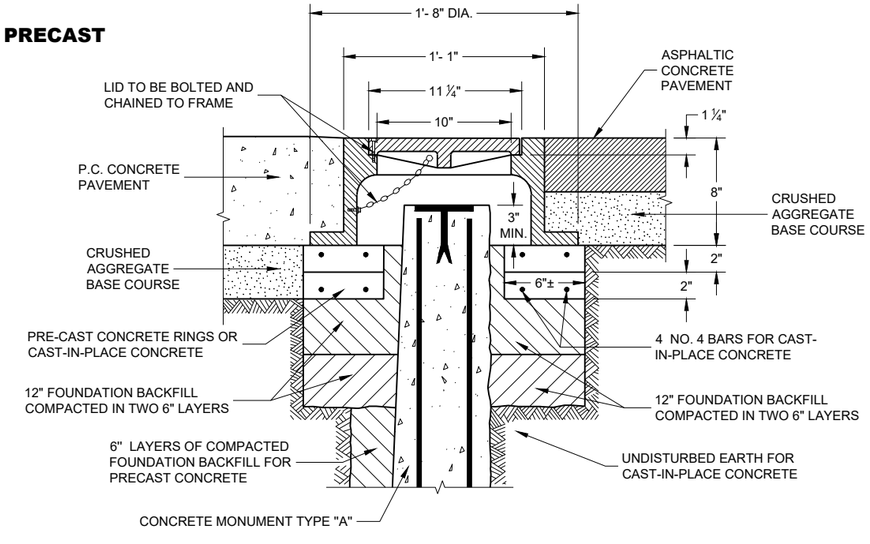


TYPE C
DRIVEN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS
(INCLUDES MARKER)



CAST IRON MONUMENT COVER
(APPROXIMATE WEIGHT 95 LBS)

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

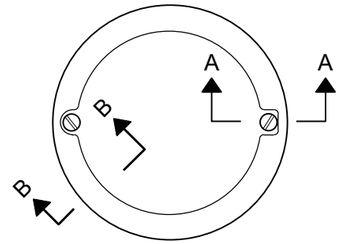
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

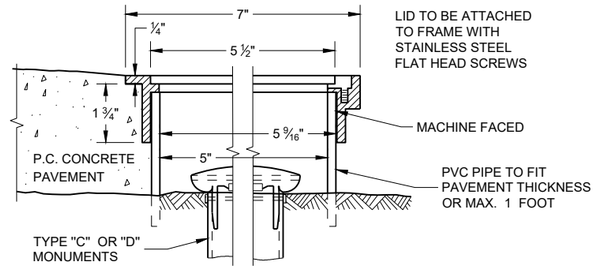
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WISDOT MARKER.



TOP VIEW



SECTION B-B **SECTION A-A**

ALUMINUM MONUMENT COVER
(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

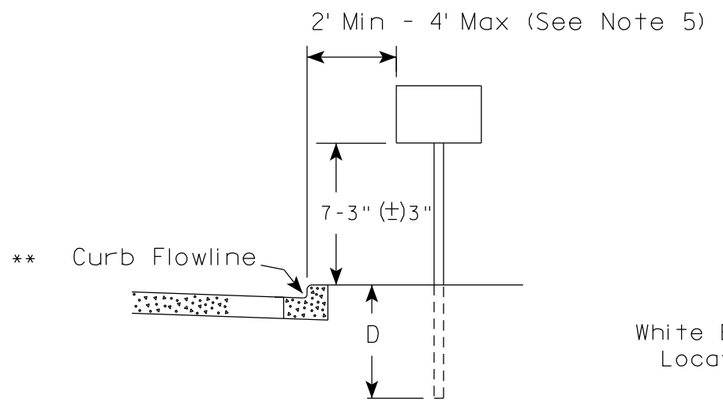
/S/ Raymond A. Kumapayii
CHIEF SURVEYING AND MAPPING ENGINEER

FHWA

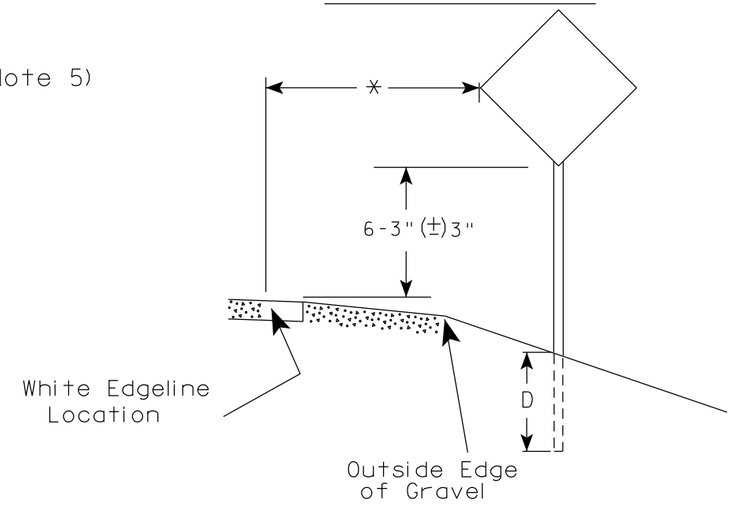
SDD 16A01 - 07

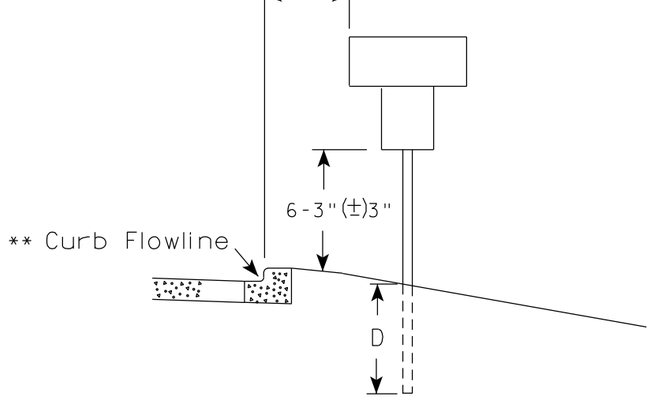
6
SDD 16A01 - 07

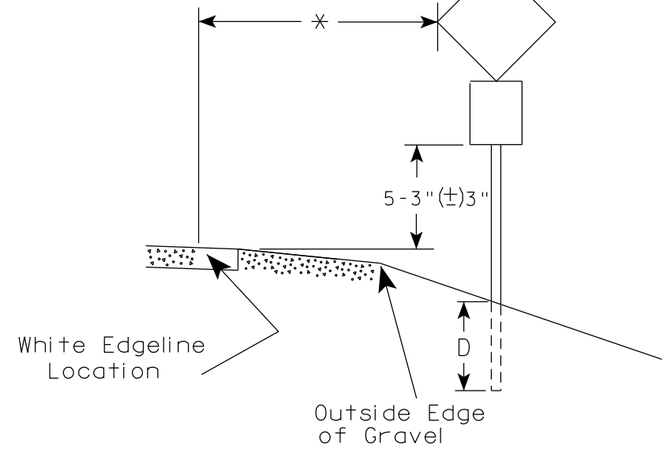
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

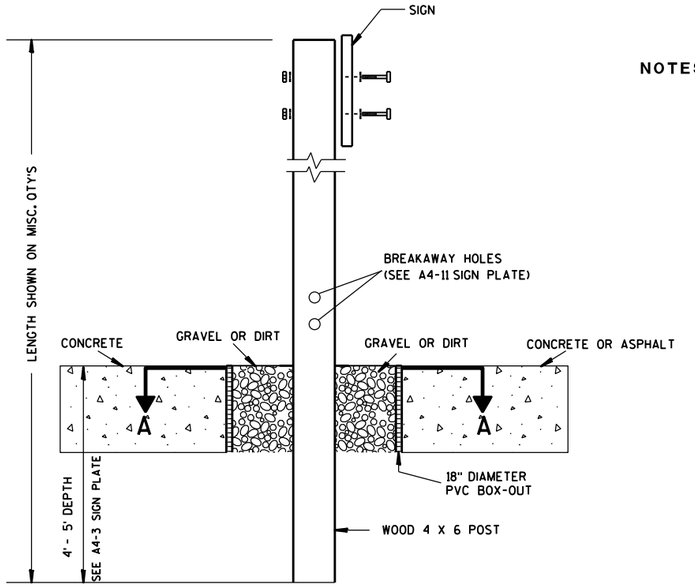
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

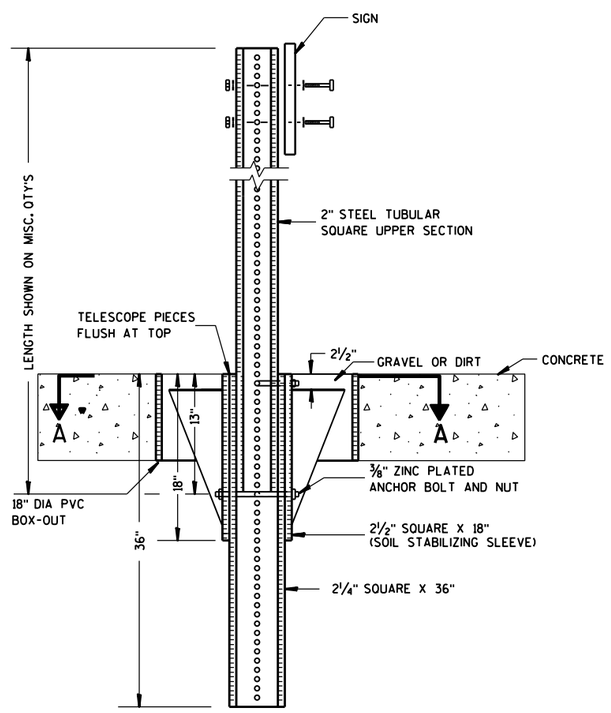
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 297	E



ELEVATION VIEW

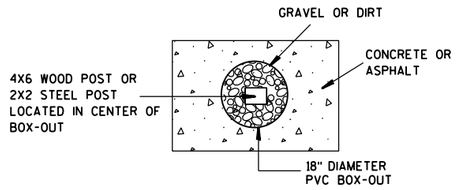
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

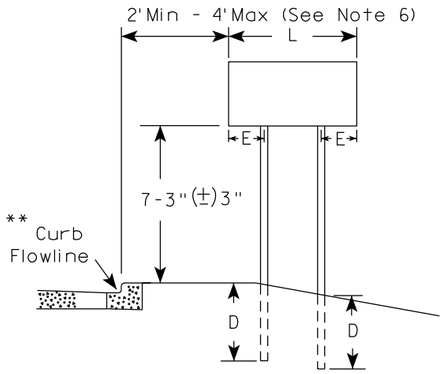
APPROVED Matthew R Rauch
for State Traffic Engineer

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

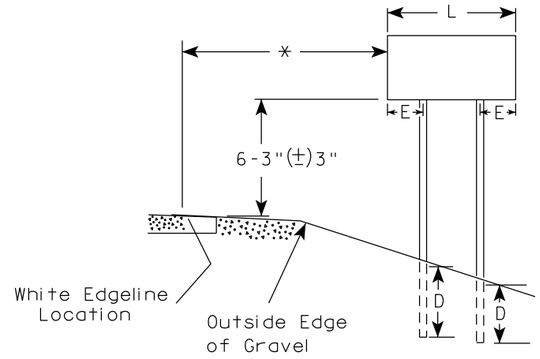
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

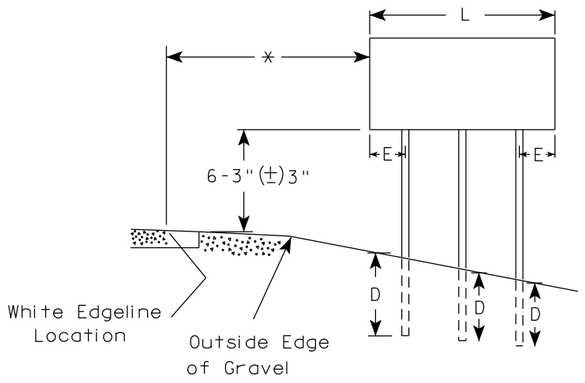
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

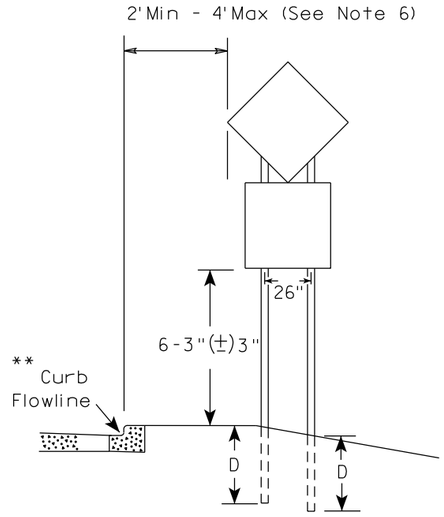
URBAN AREA



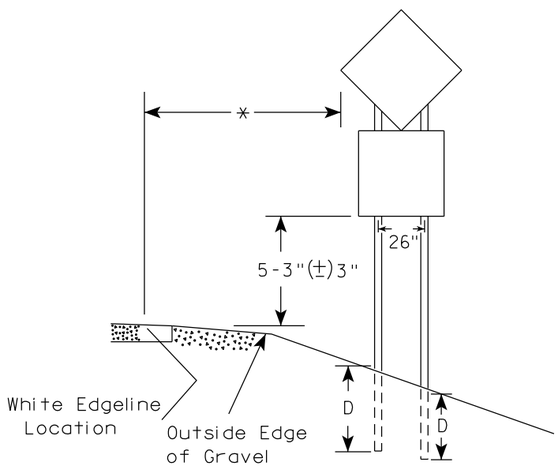
RURAL AREA (See Note 3)







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" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

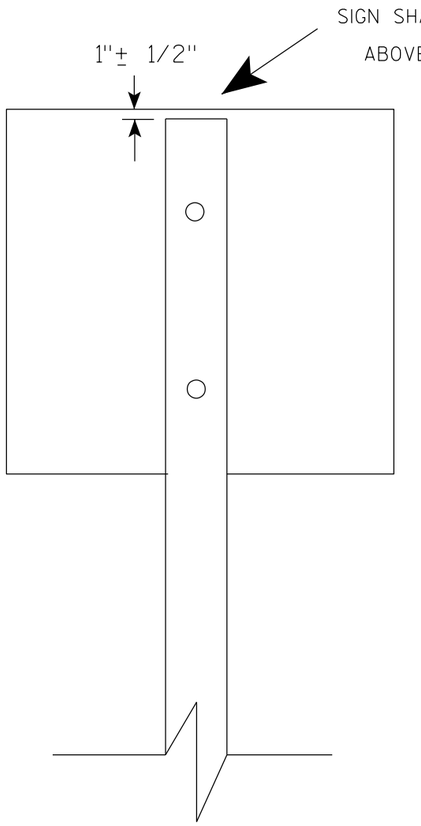
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

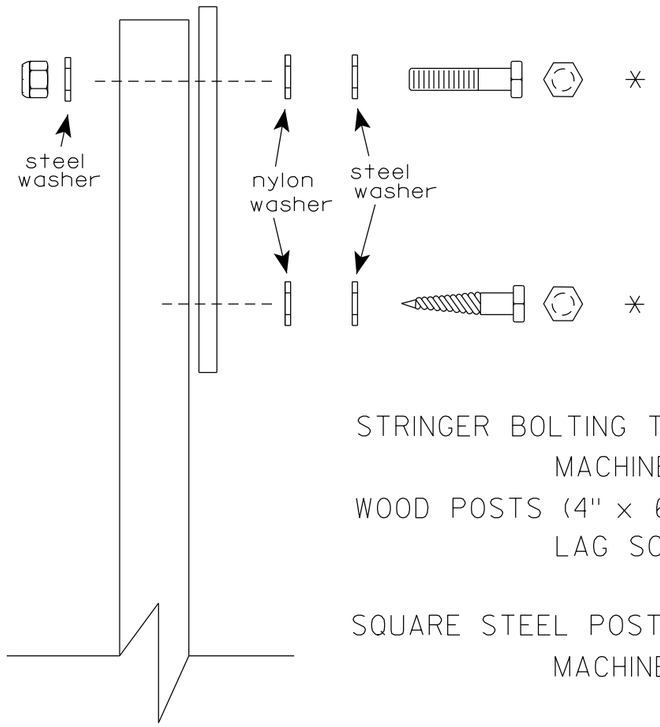
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 299	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

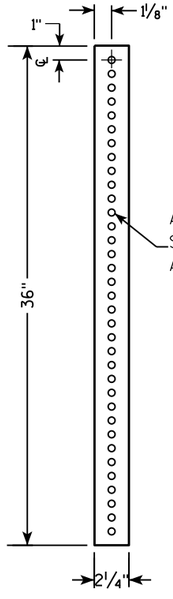
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

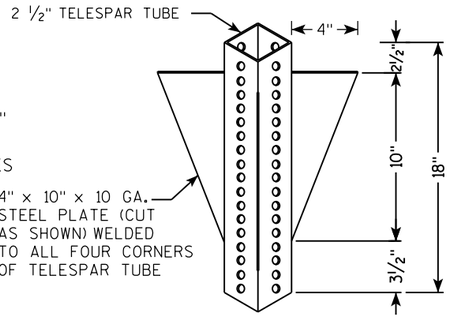
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

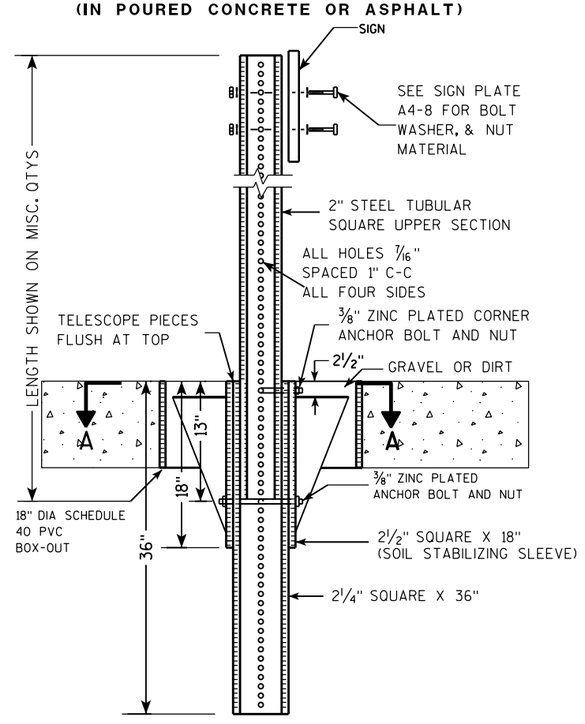
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



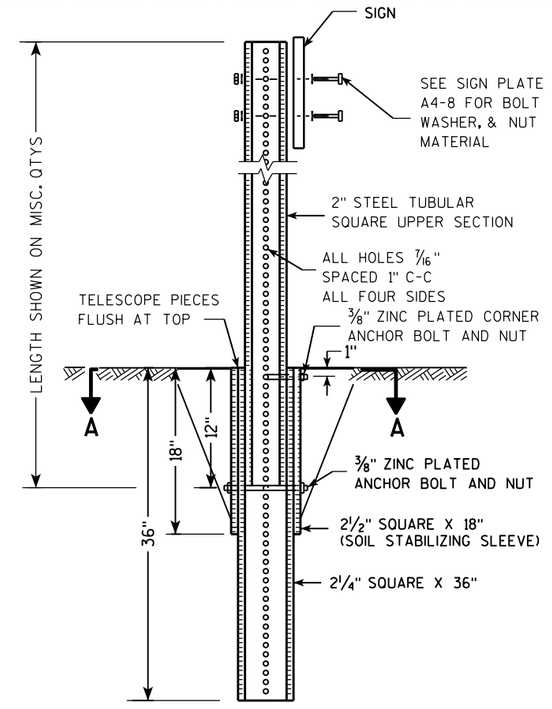
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

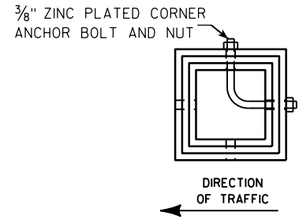


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

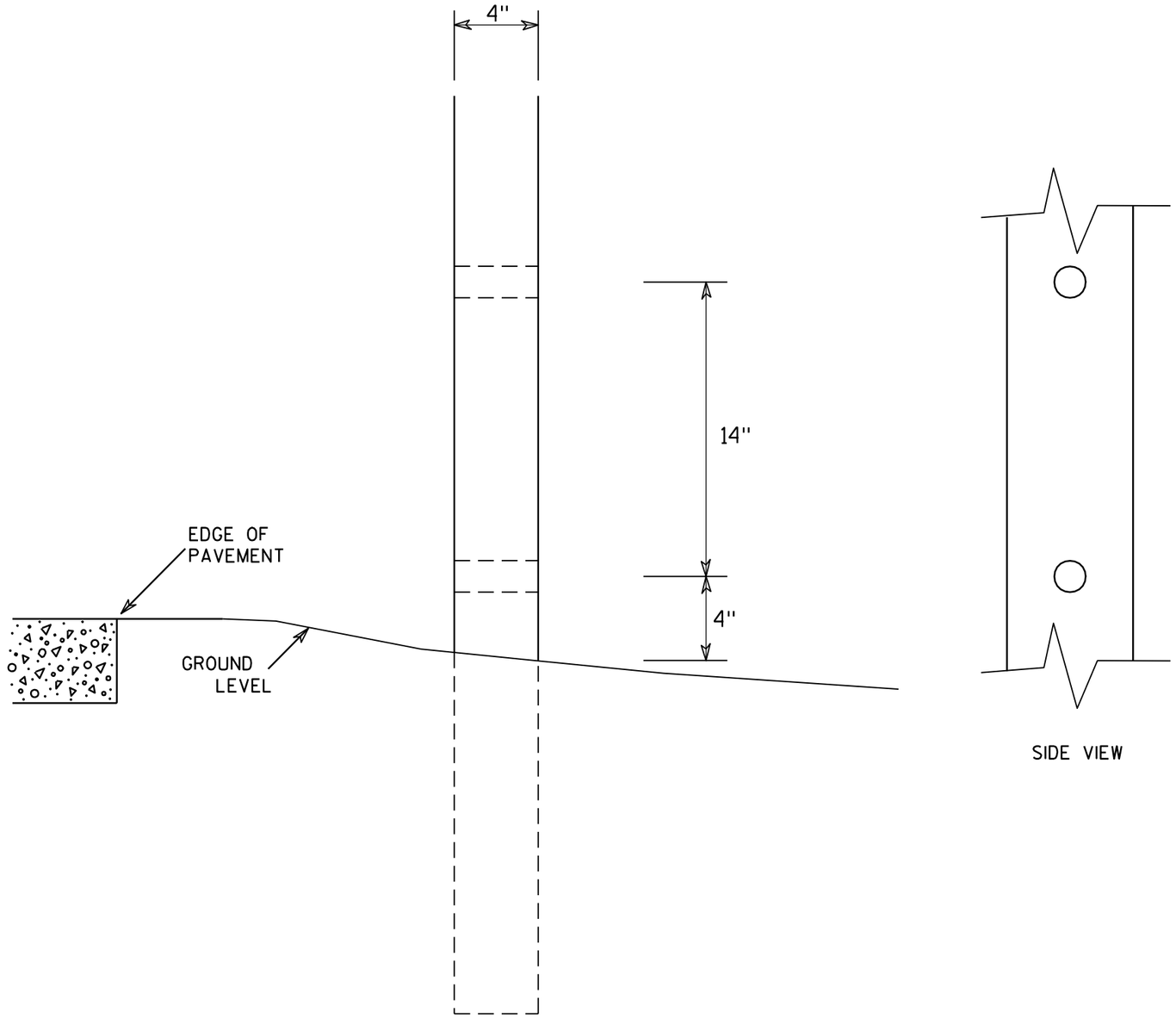
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 301 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

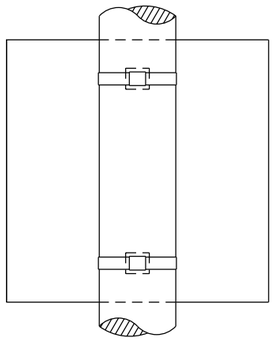
APPROVED Chester J Spang for State Traffic Engineer

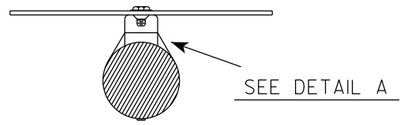
DATE 3/27/97 PLATE NO. A4-11.2

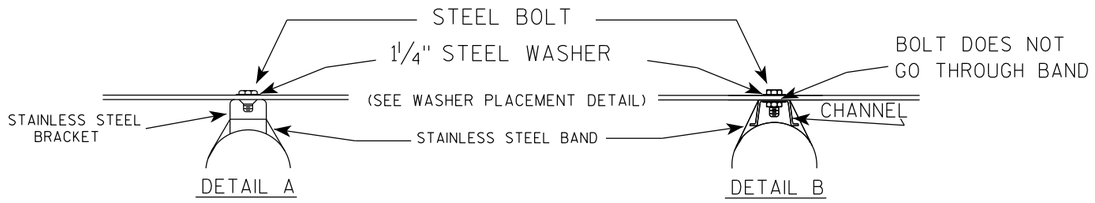
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 302	E

BANDING

SINGLE SIGN



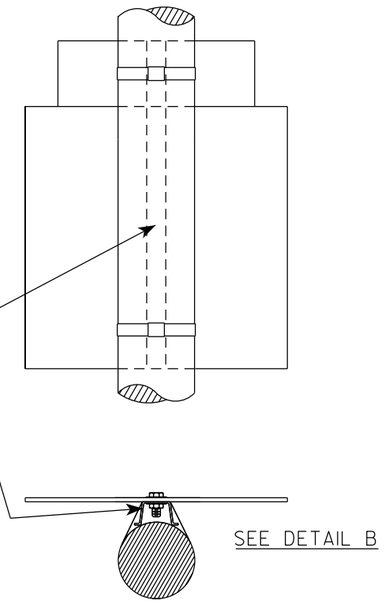




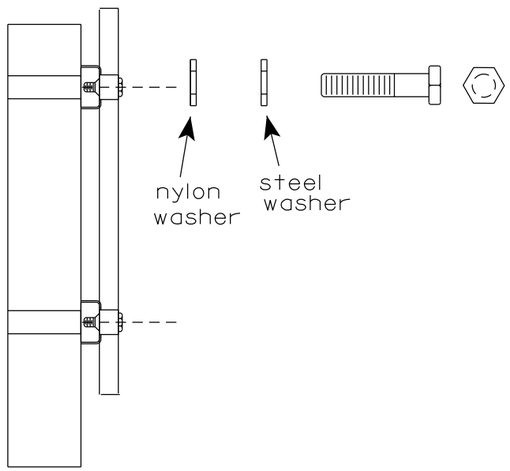
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

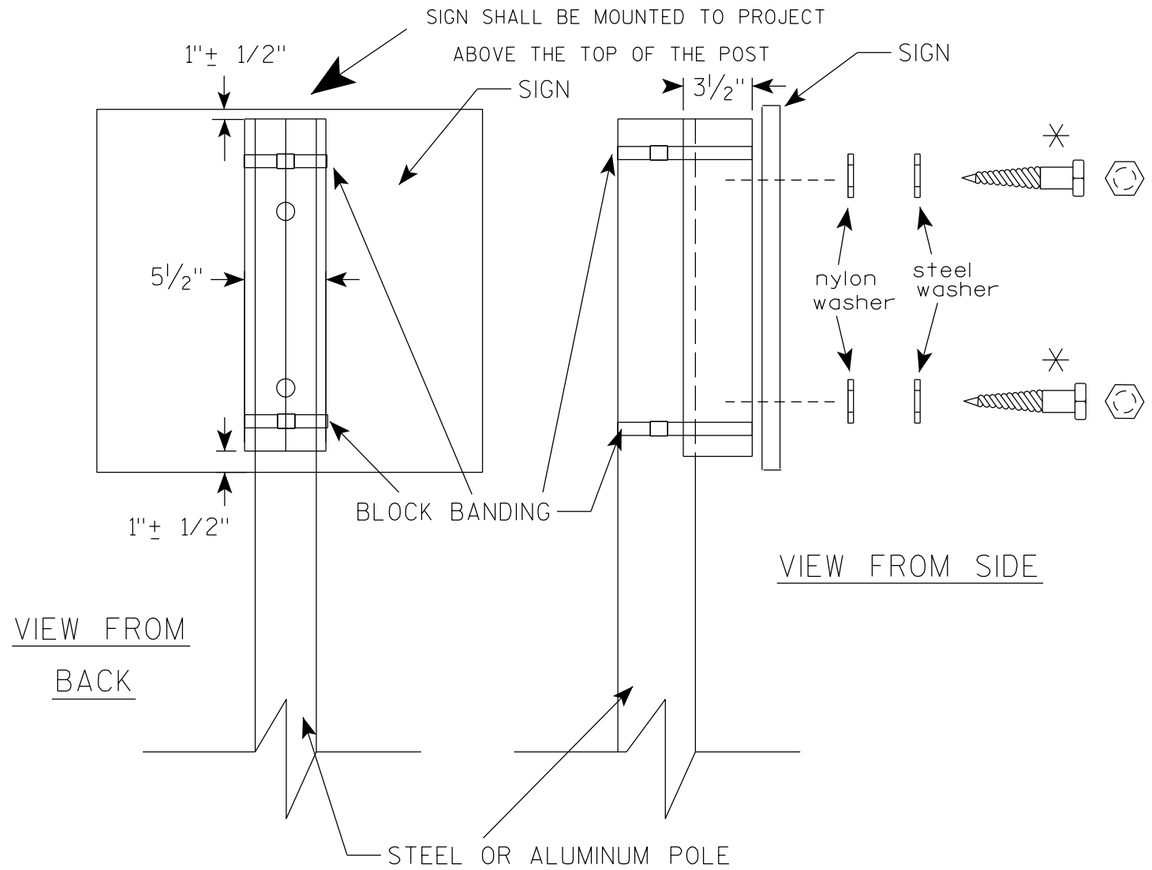
WISCONSIN DEPT OF TRANSPORTATION

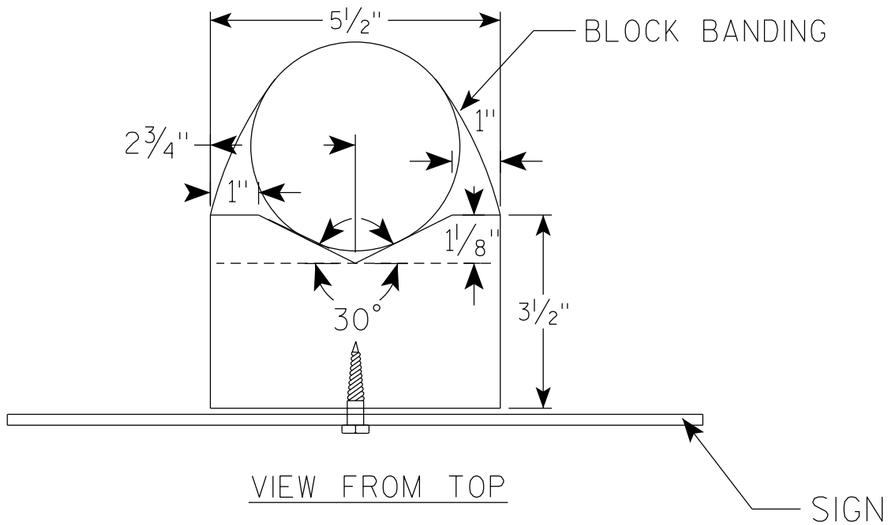
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 303	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

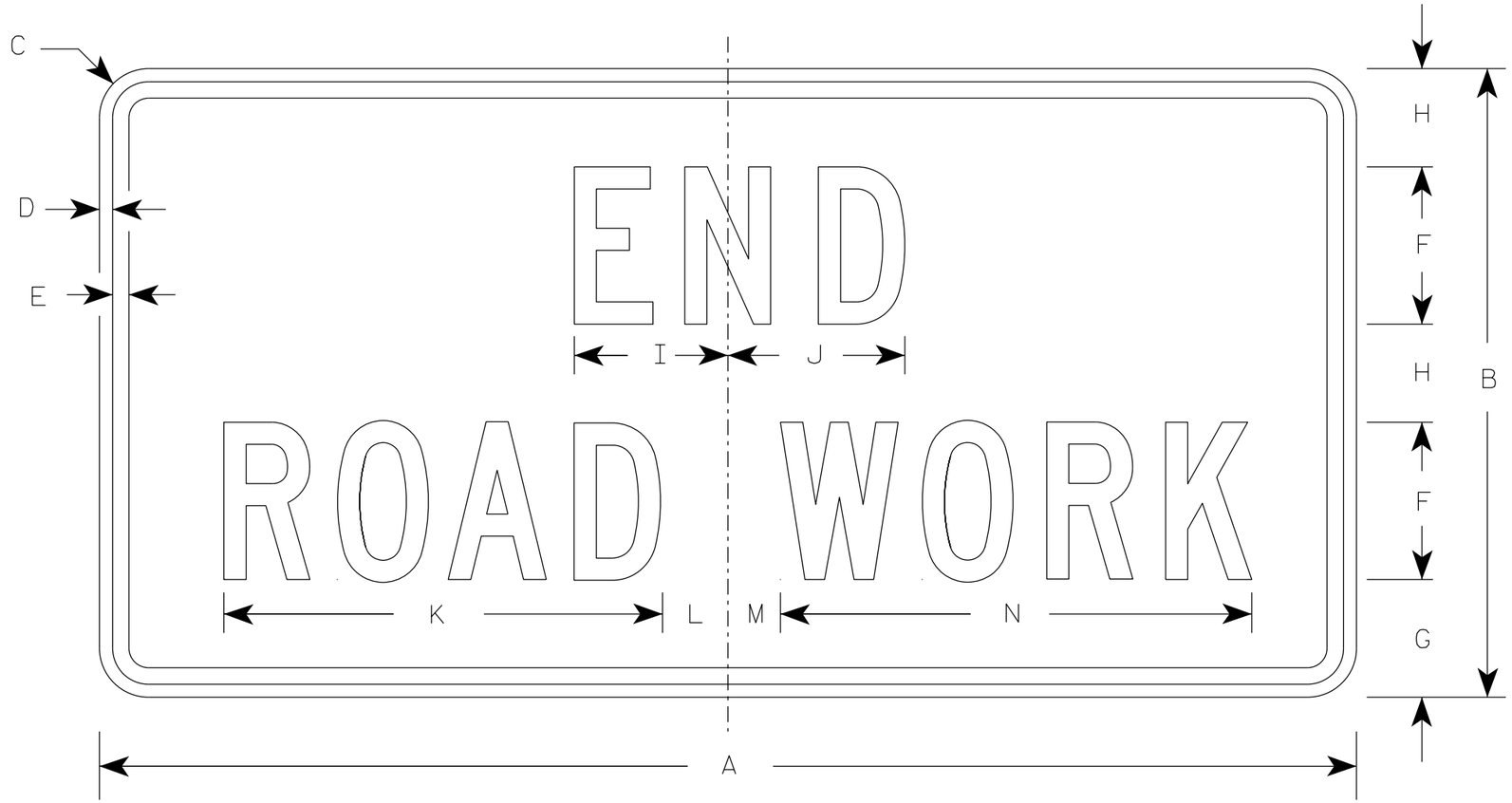
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 304 E



G20-2A

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5
2	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
2M	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
3	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
4	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
5	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0

STANDARD SIGN

G20-2A

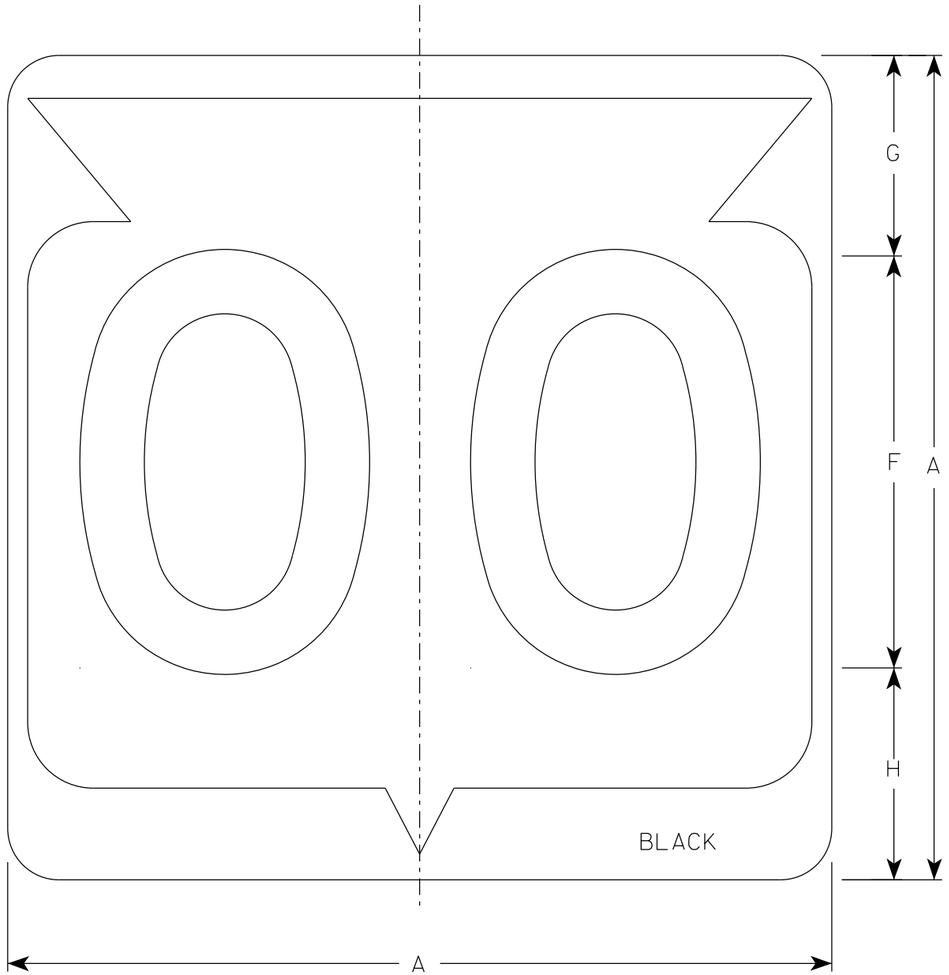
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-2A.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 305 E

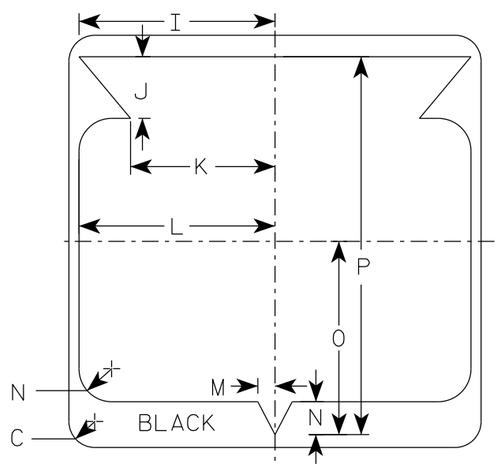
7



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
2M	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

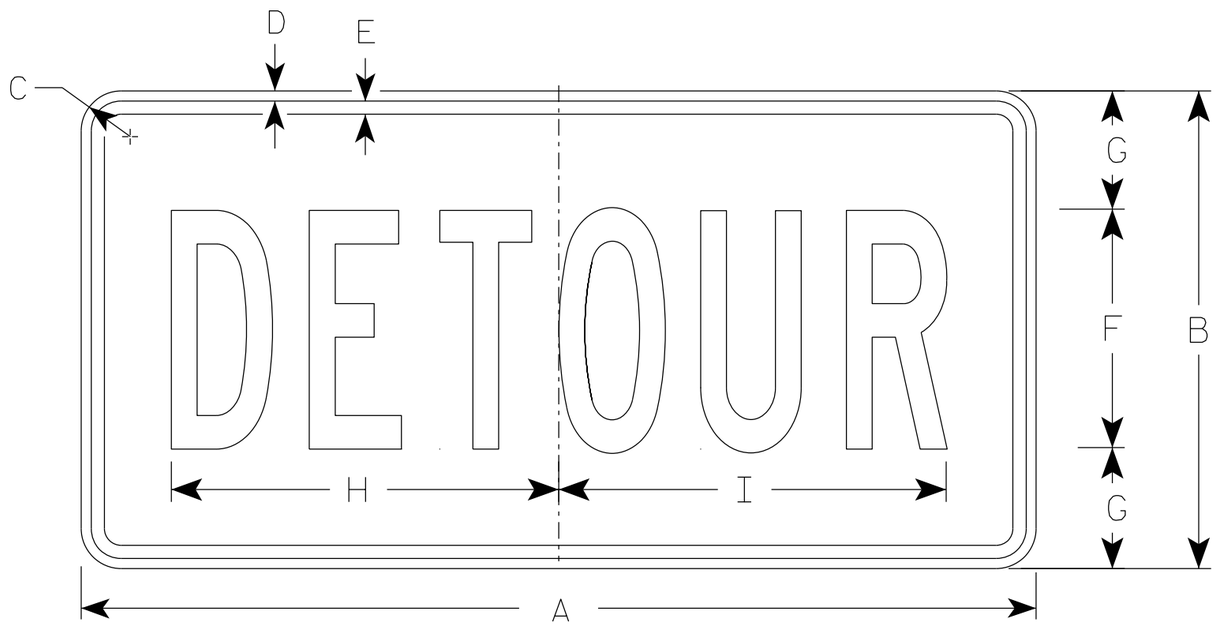
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 306	E

NOTES

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



M4-8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

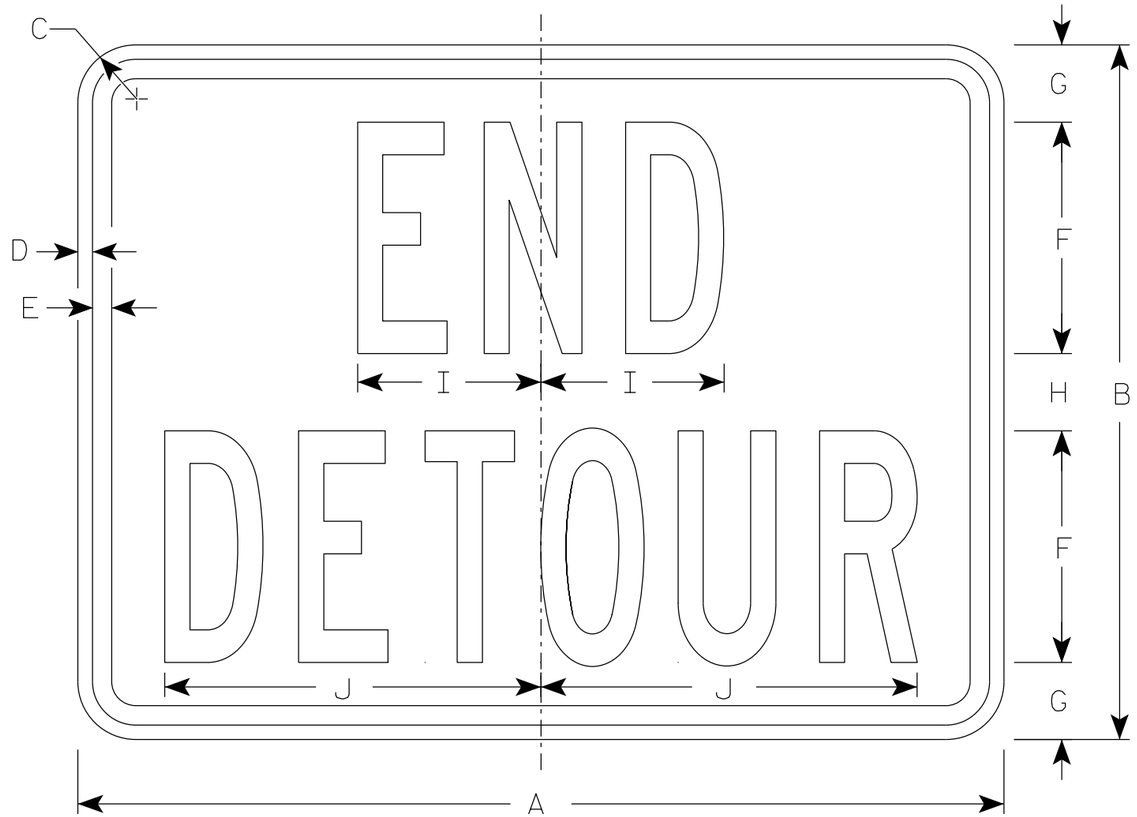
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 307	E



M4-8A

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

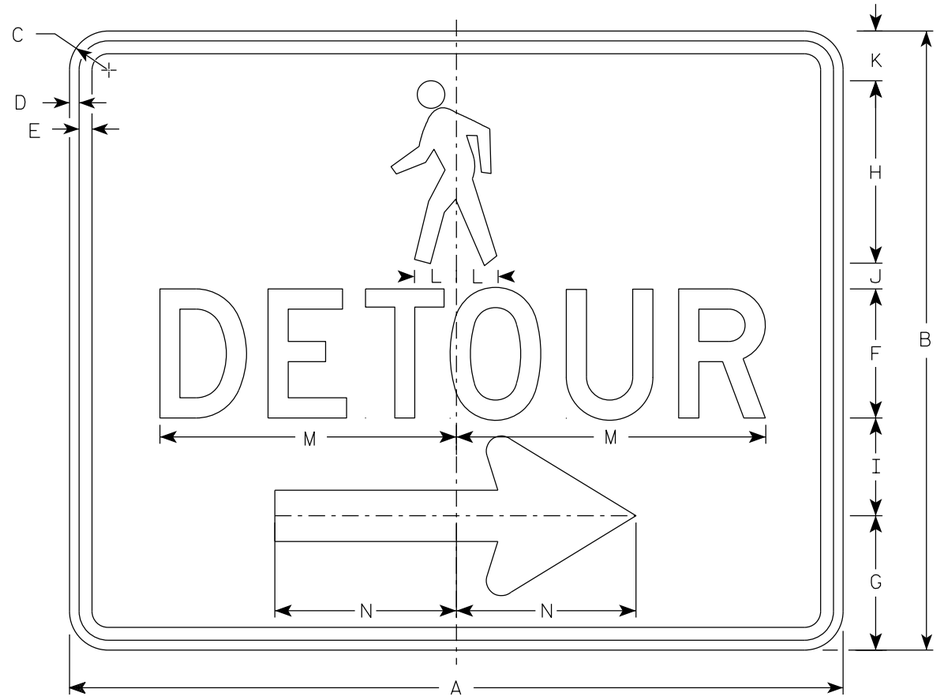
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

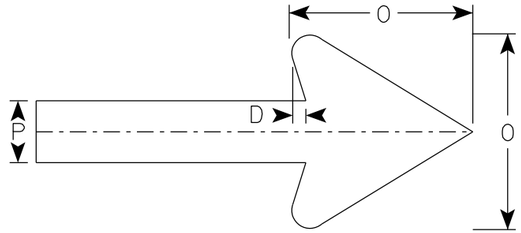
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 308 | E



M4-9BR

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9BL is the same as M4-9BR except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 1/2	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.0
2M	30	24	1 1/2	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.0
3																											
4																											
5																											

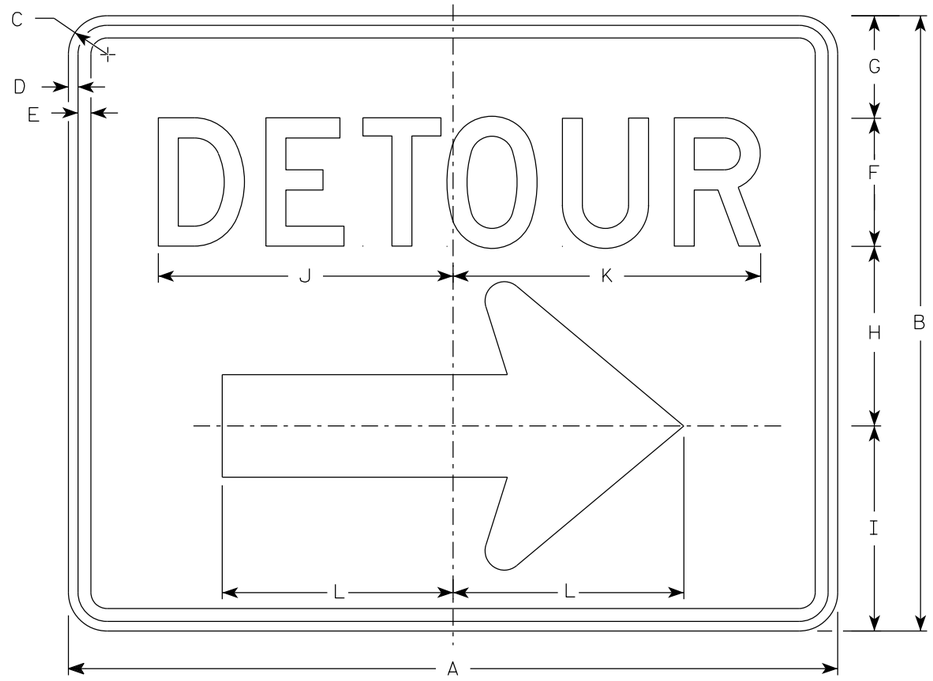
STANDARD SIGN
M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-9B.4

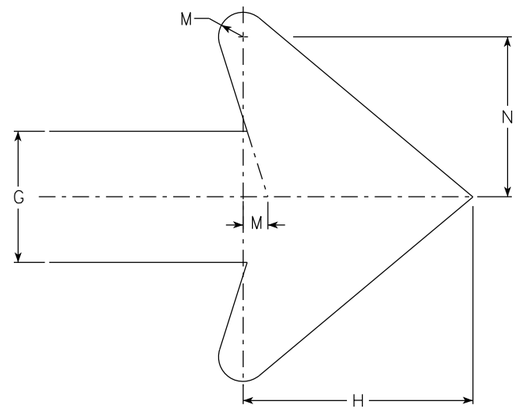
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 309 | E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

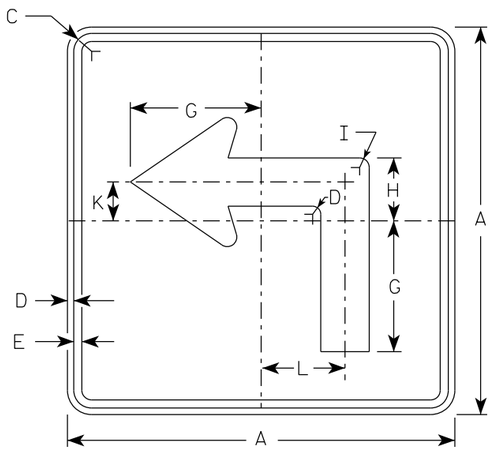
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

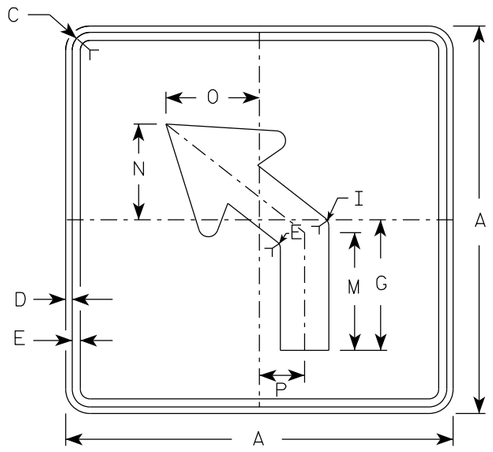
DATE 2/9/2023 PLATE NO. M4-9R.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

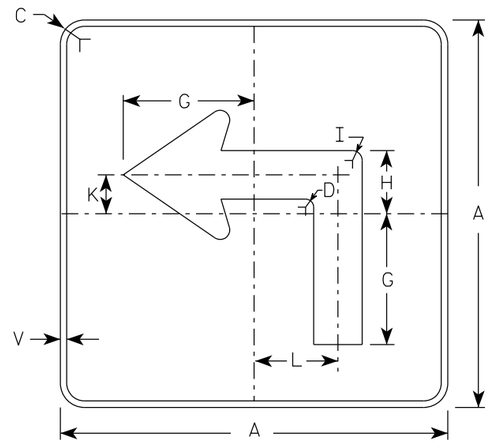
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49R.dgn PLOT DATE : 21-MARCH 2023 1:40 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



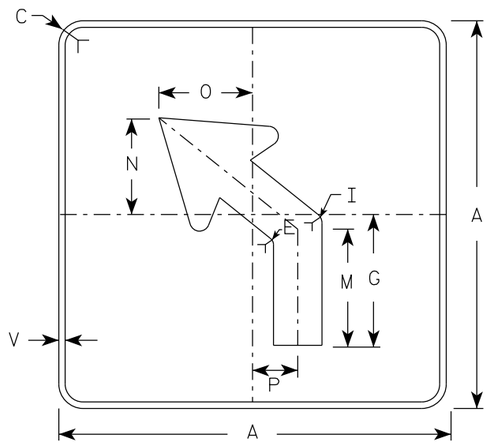
M5-1L
MM5-1L
MO5-1L
MP5-1L



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



MB5-1L
MK5-1L
MN5-1L
MR5-1L

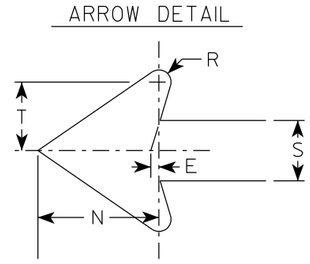


MB5-2L
MK5-2L
MN5-2L
MR5-2L

NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

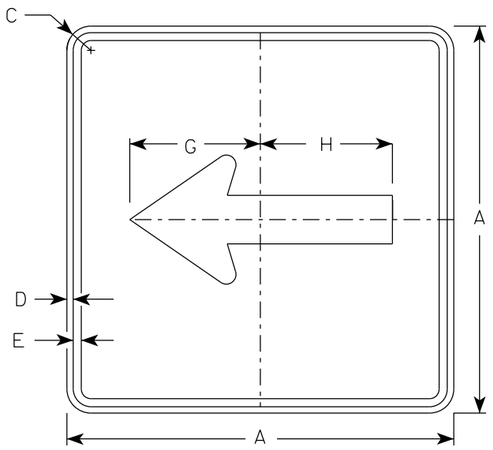
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

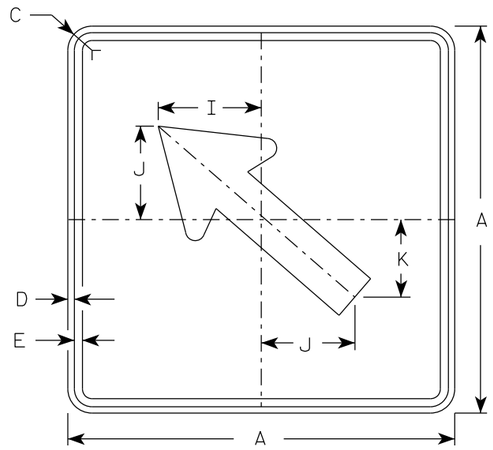
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

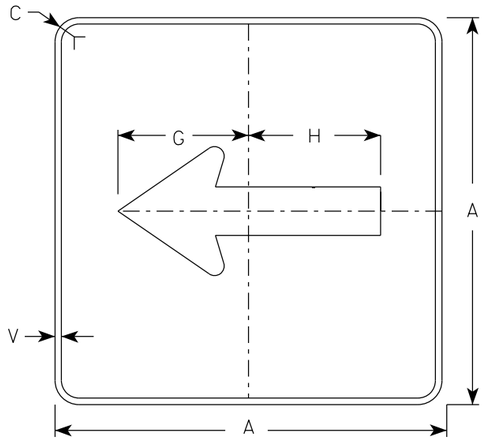
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 311 | E



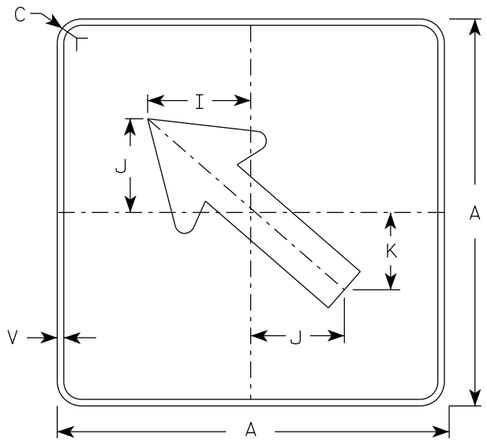
M6-1
MM6-1
MO6-1
MP6-1



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



MB6-1
MK6-1
MN6-1
MR6-1

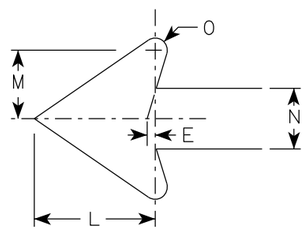


MB6-2
MK6-2
MN6-2
MR6-2

NOTES

1. Signs are Type II - Type H Reflective except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

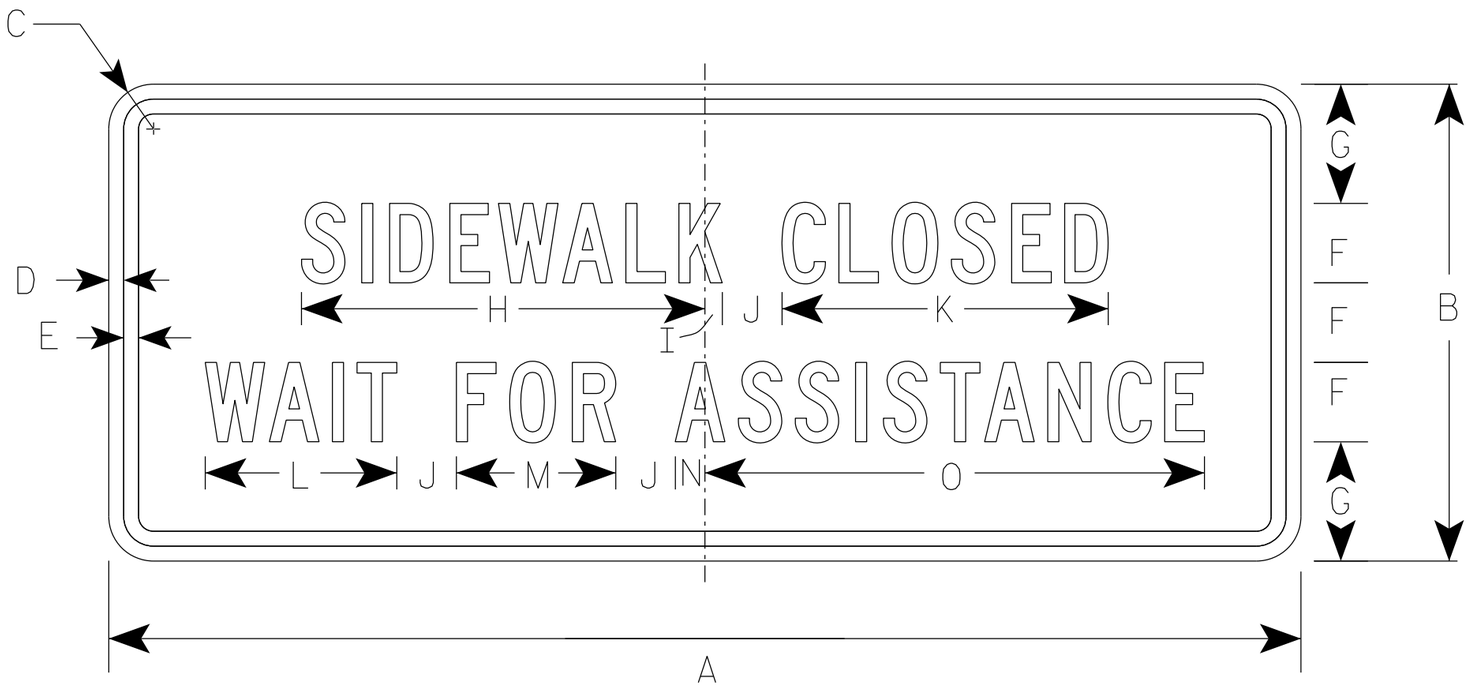
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 312 | E

7

7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C



R9-20

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	12	1 ½	⅜	⅜	2	3	10 ⅛	½	1 ½	8 ¼	4 ⅞	4	¾	12 ⅝												2.5
2M	30	12	1 ½	⅜	⅜	2	3	10 ⅛	½	1 ½	8 ¼	4 ⅞	4	¾	12 ⅝												2.5
3																											
4																											
5																											

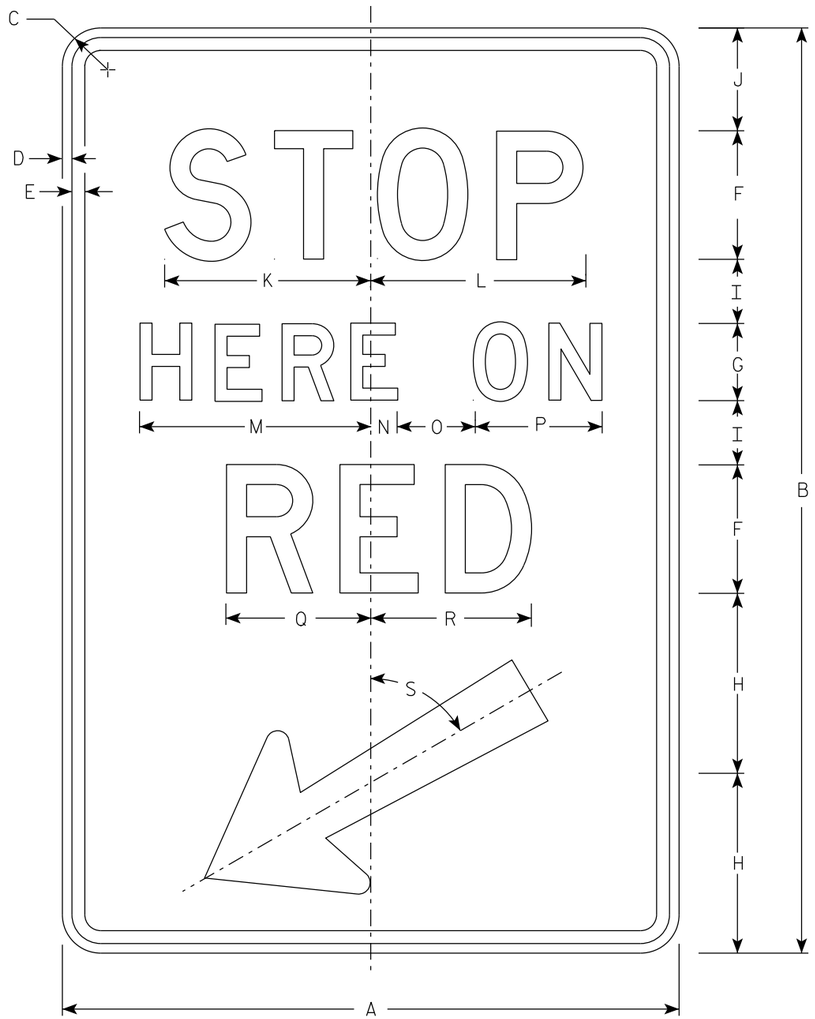
STANDARD SIGN
R9-20

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/24/24 PLATE NO. R9-20.2

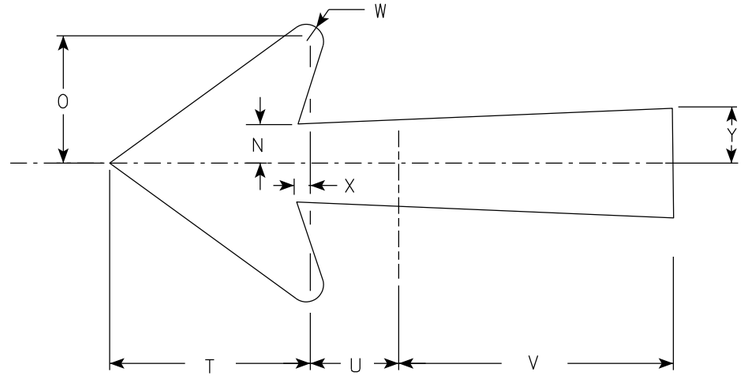
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 313 | E



R10-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Areq sq. ft.
1																											
2S	24	36	1 1/2	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/2	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											

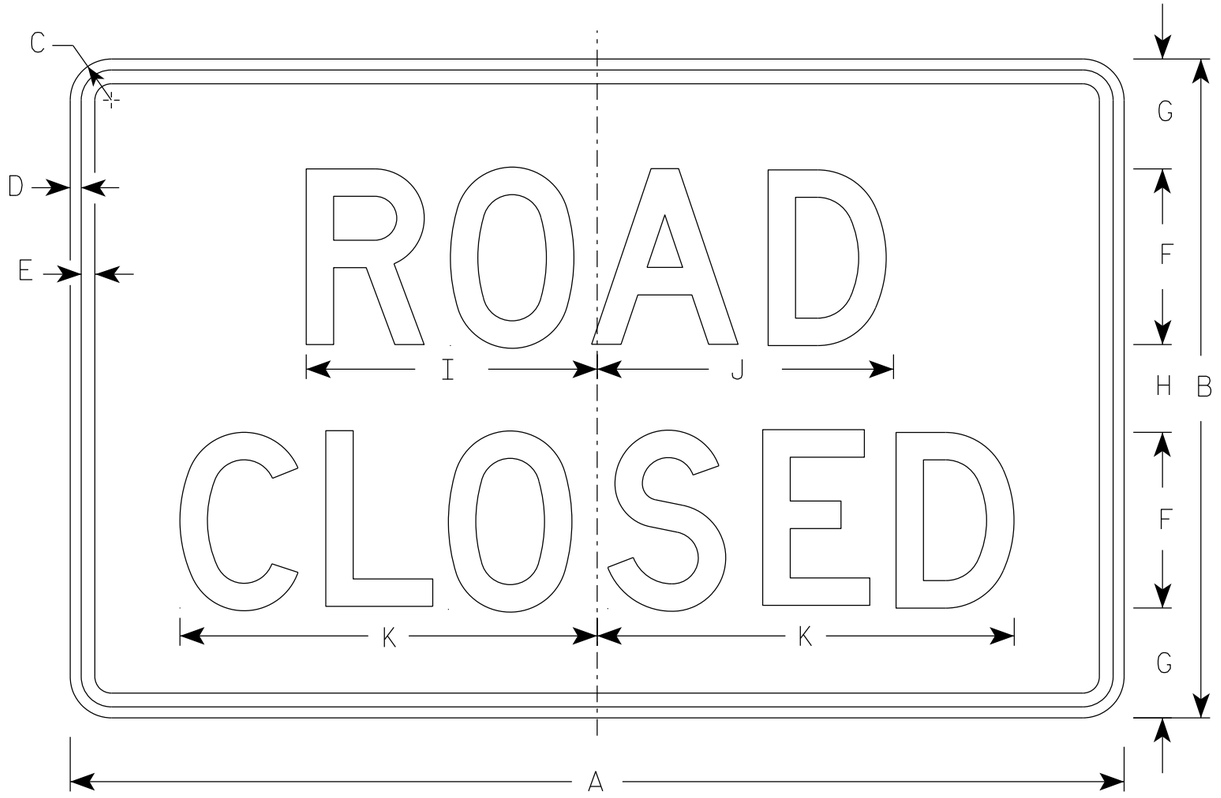
STANDARD SIGN
R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/25/24 PLATE NO. R10-6.7

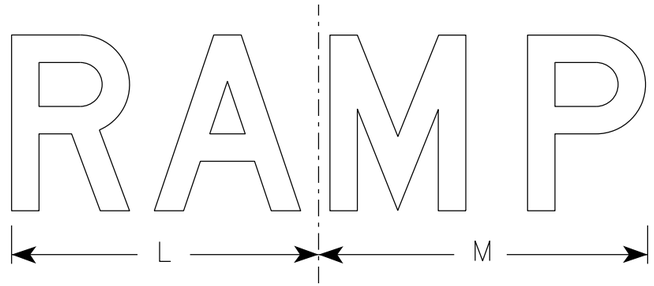
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 314	E



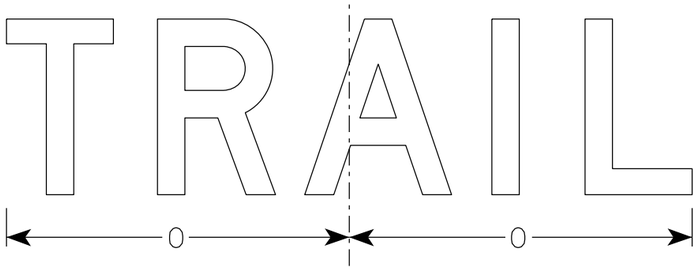
R11-2

NOTES

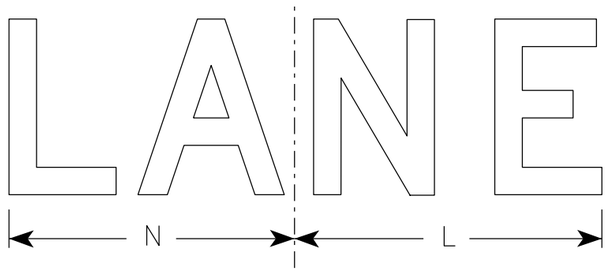
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the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



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

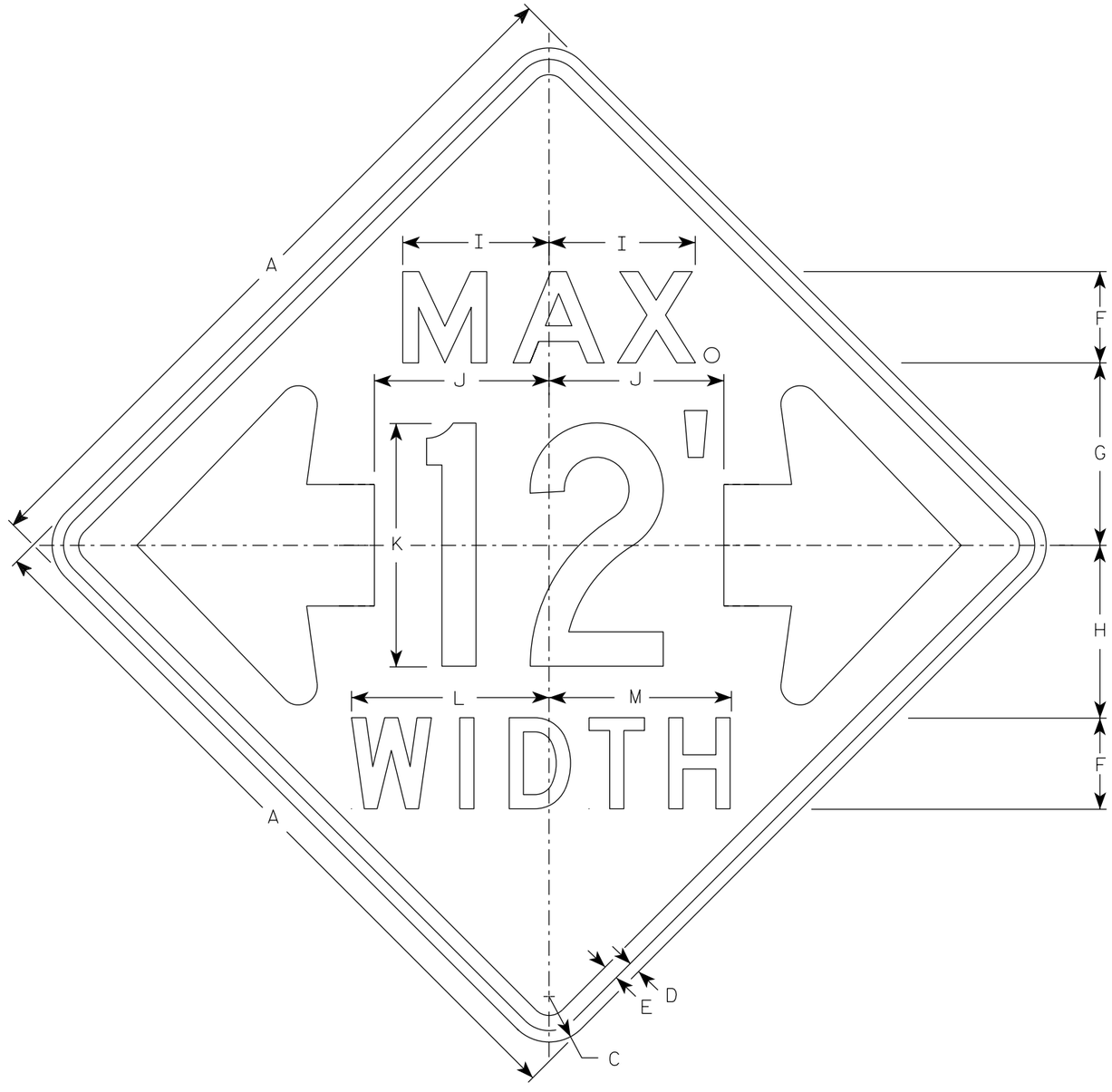
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-2.12

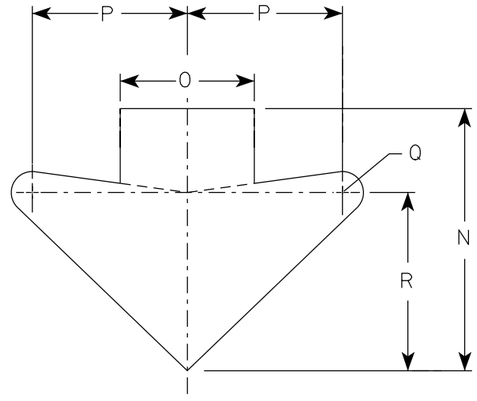
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 315	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. The top line is series E, the numerals are series C, and the bottom line is series D.
5. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		3	¾	1	6	12	11 ⅜	9 ⅝	11 ½	16	13	12	15 ⅝	8	9 ¼	1 ¼	10 ⅝									16.0
2M	48		3	¾	1	6	12	11 ⅜	9 ⅝	11 ½	16	13	12	15 ⅝	8	9 ¼	1 ¼	10 ⅝									16.0
3																											
4																											
5																											

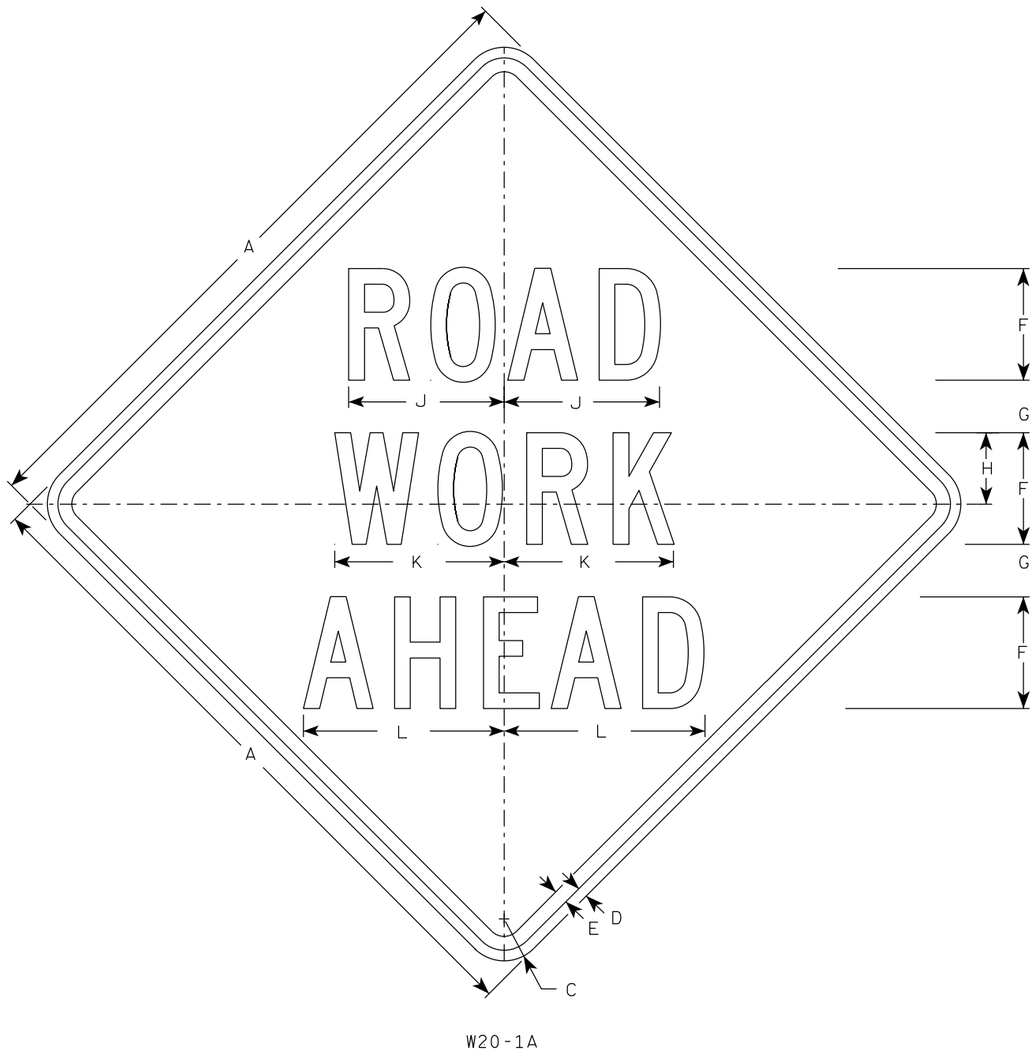
STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

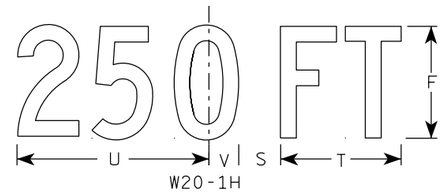
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/2024 PLATE NO. W12-52.8

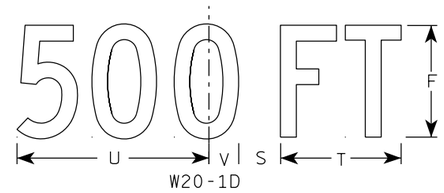
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 316 | E



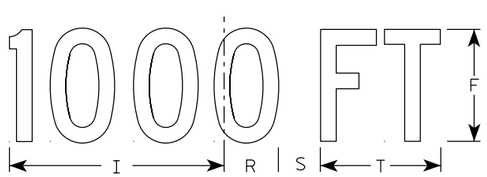
W20-1A



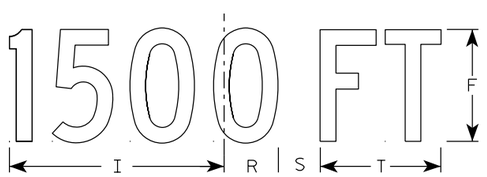
W20-1H



W20-1D



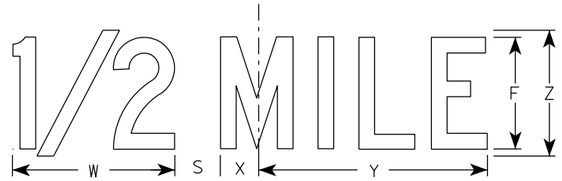
W20-1C



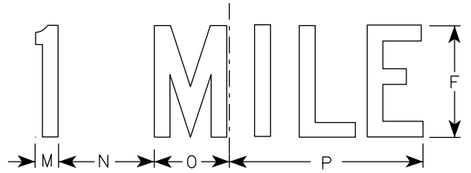
W20-1B

NOTES

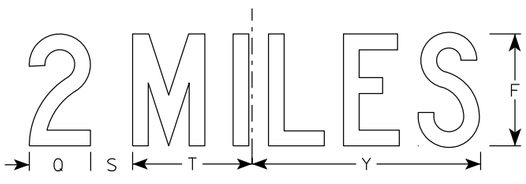
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-1.12

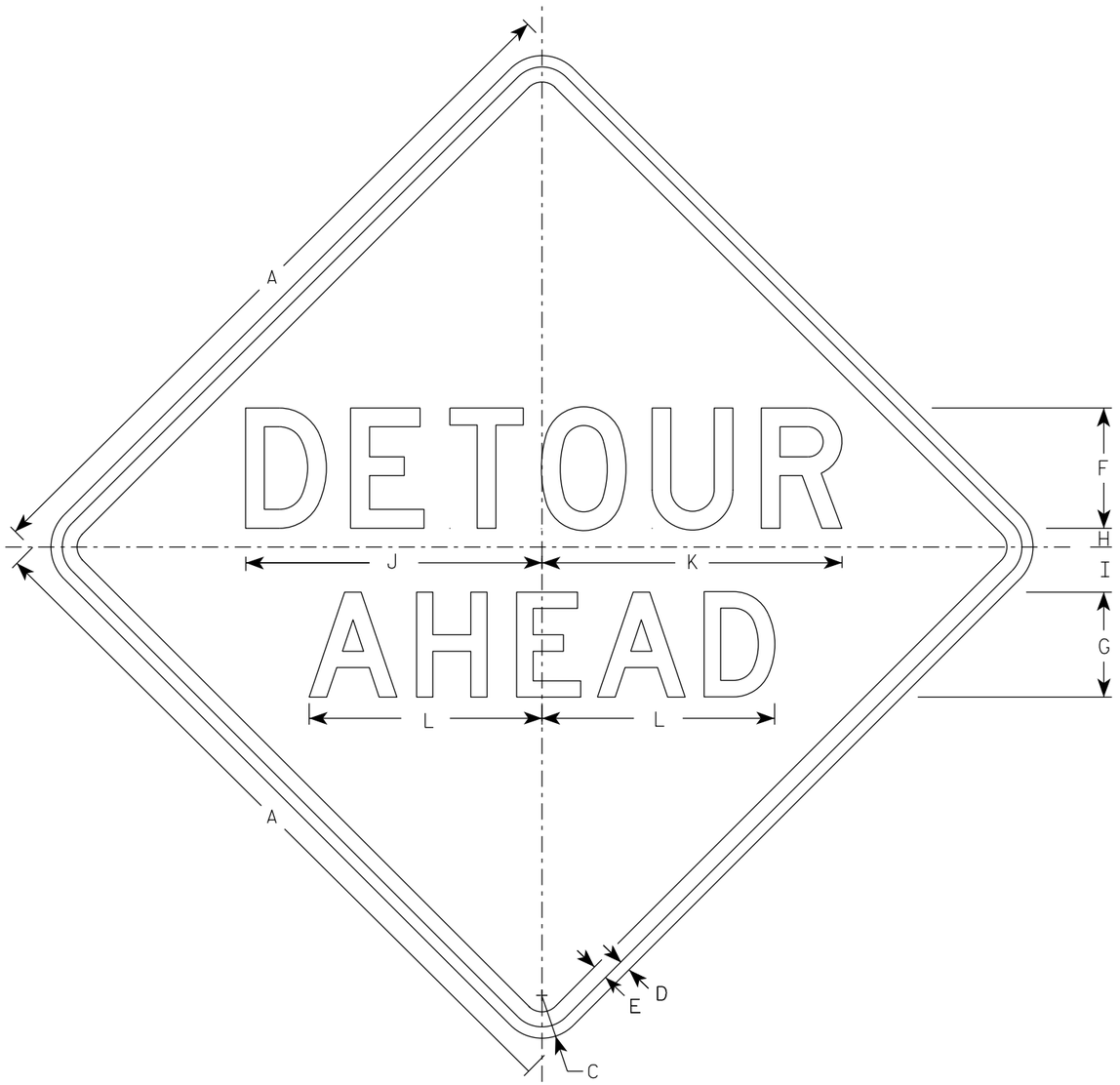
PROJECT NO:

SHEET NO: 317 E

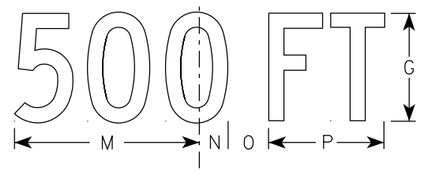
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 10-JAN 2024 11:16 PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

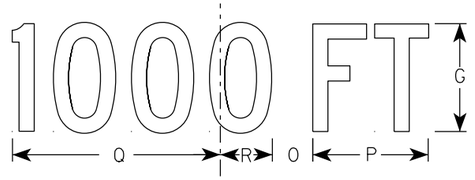
7



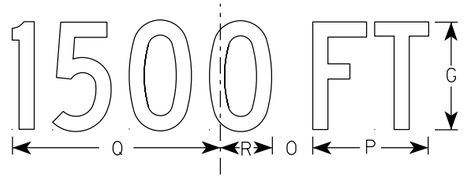
W20-2A



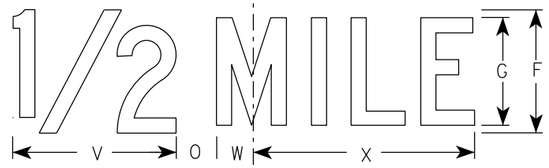
W20-2D



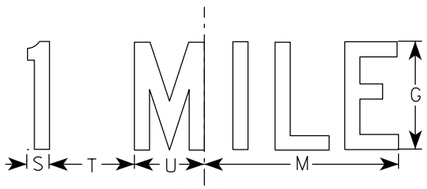
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

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

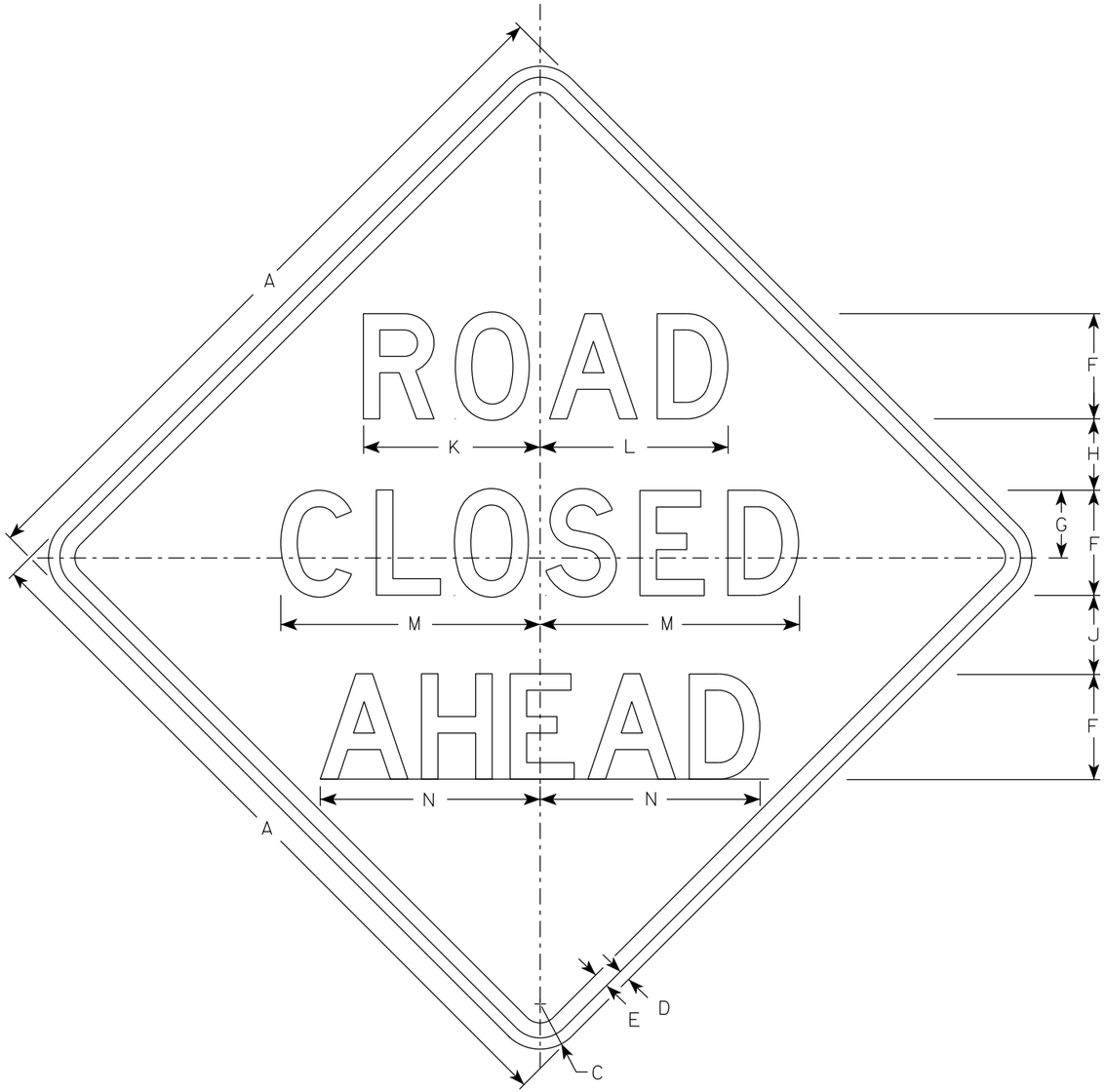
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

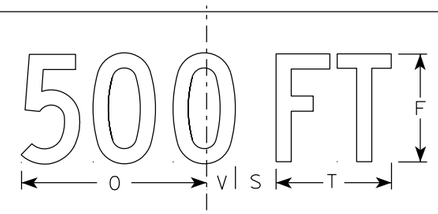
DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

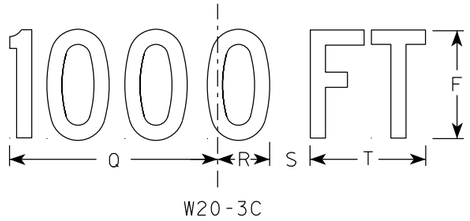
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



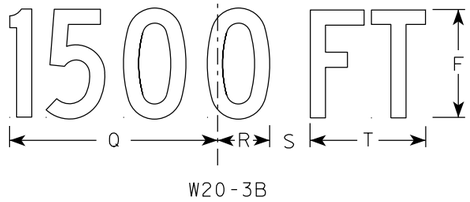
W20-3A



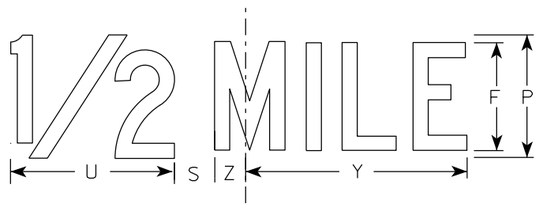
W20-3D



W20-3C



W20-3B



W20-3G

W20-3F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

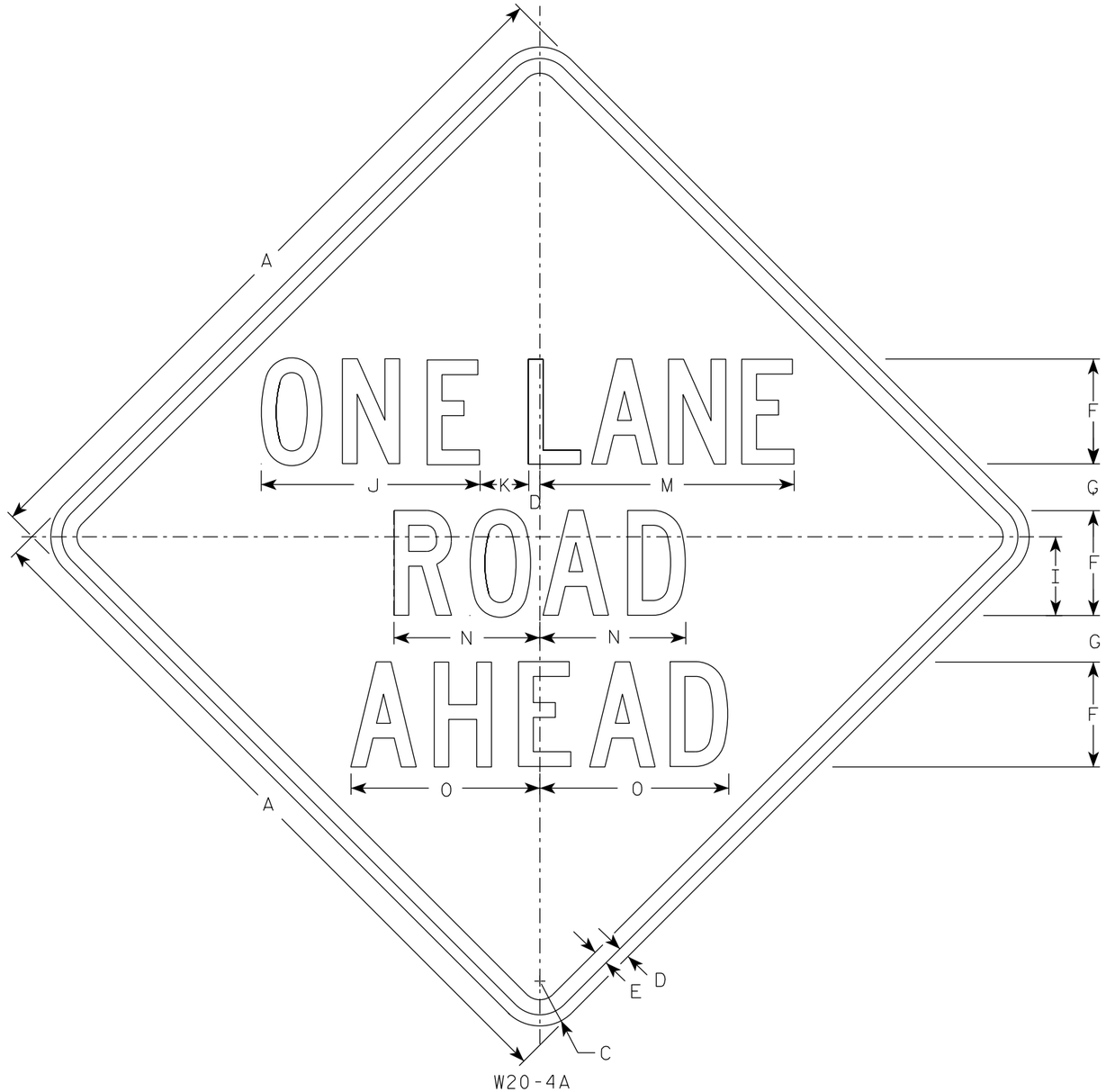
WISCONSIN DEPT OF TRANSPORTATION

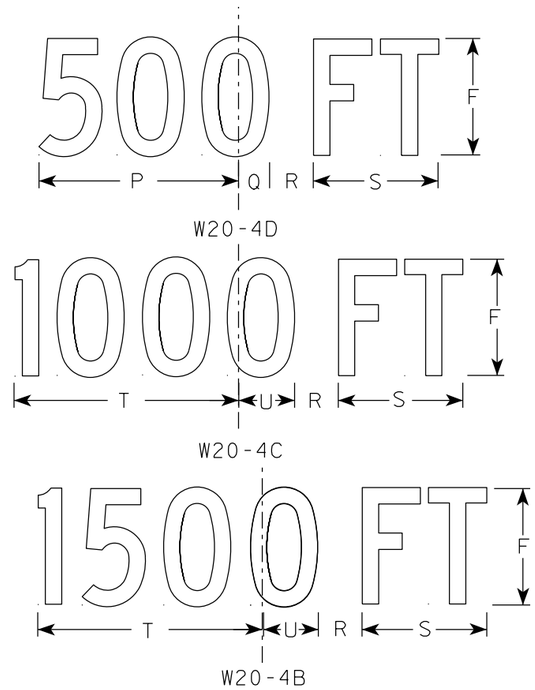
APPROVED Matthew R Rauch
for State Traffic Engineer

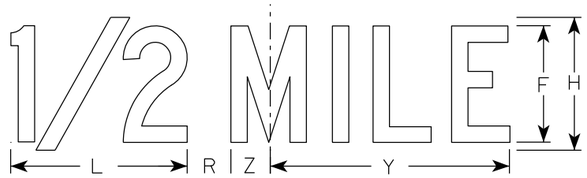
DATE 1/10/2024 PLATE NO. W20-3.8

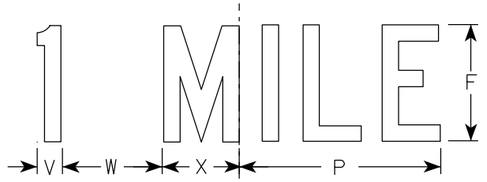
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN PLOT DATE : 10-JAN 2024 12:02 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42









NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 7/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-4A, B, C, D, F & G

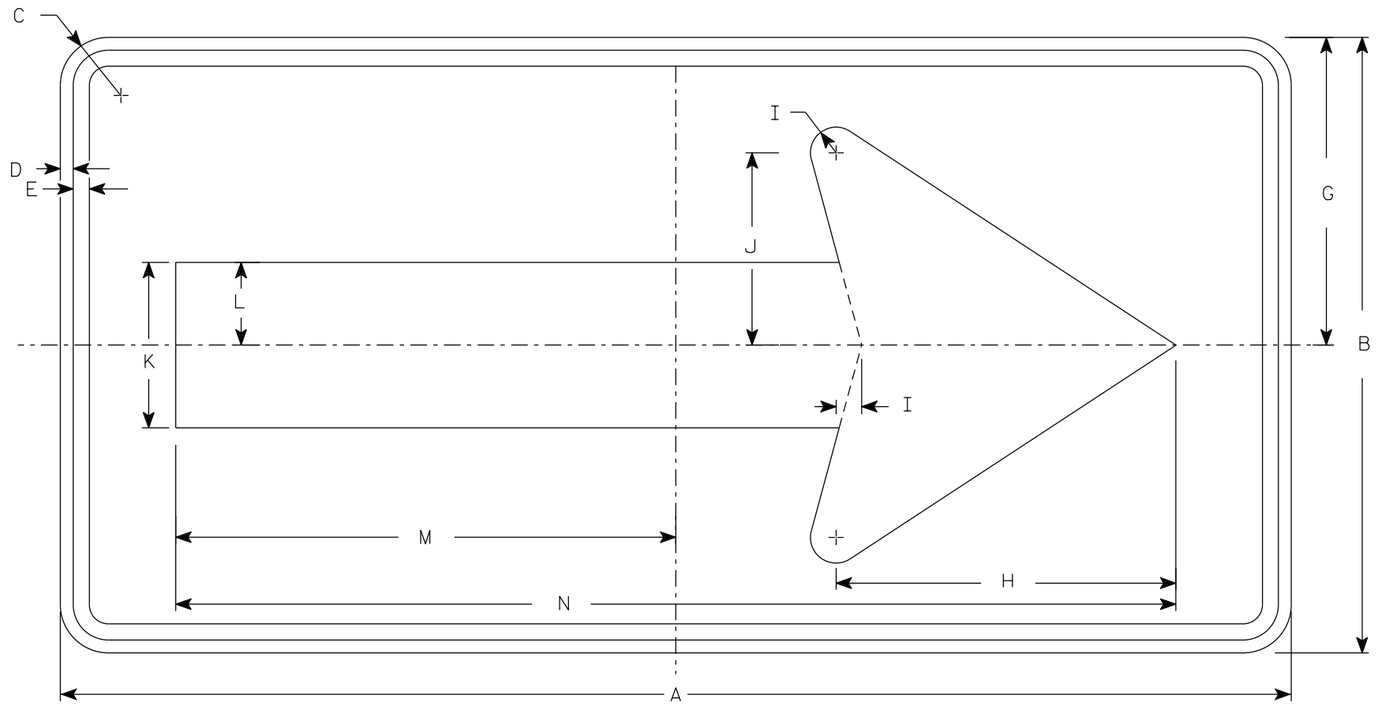
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-4.10

PROJECT NO:

SHEET NO: 320 E



WO1-6

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
WO1-6

WISCONSIN DEPT OF TRANSPORTATION

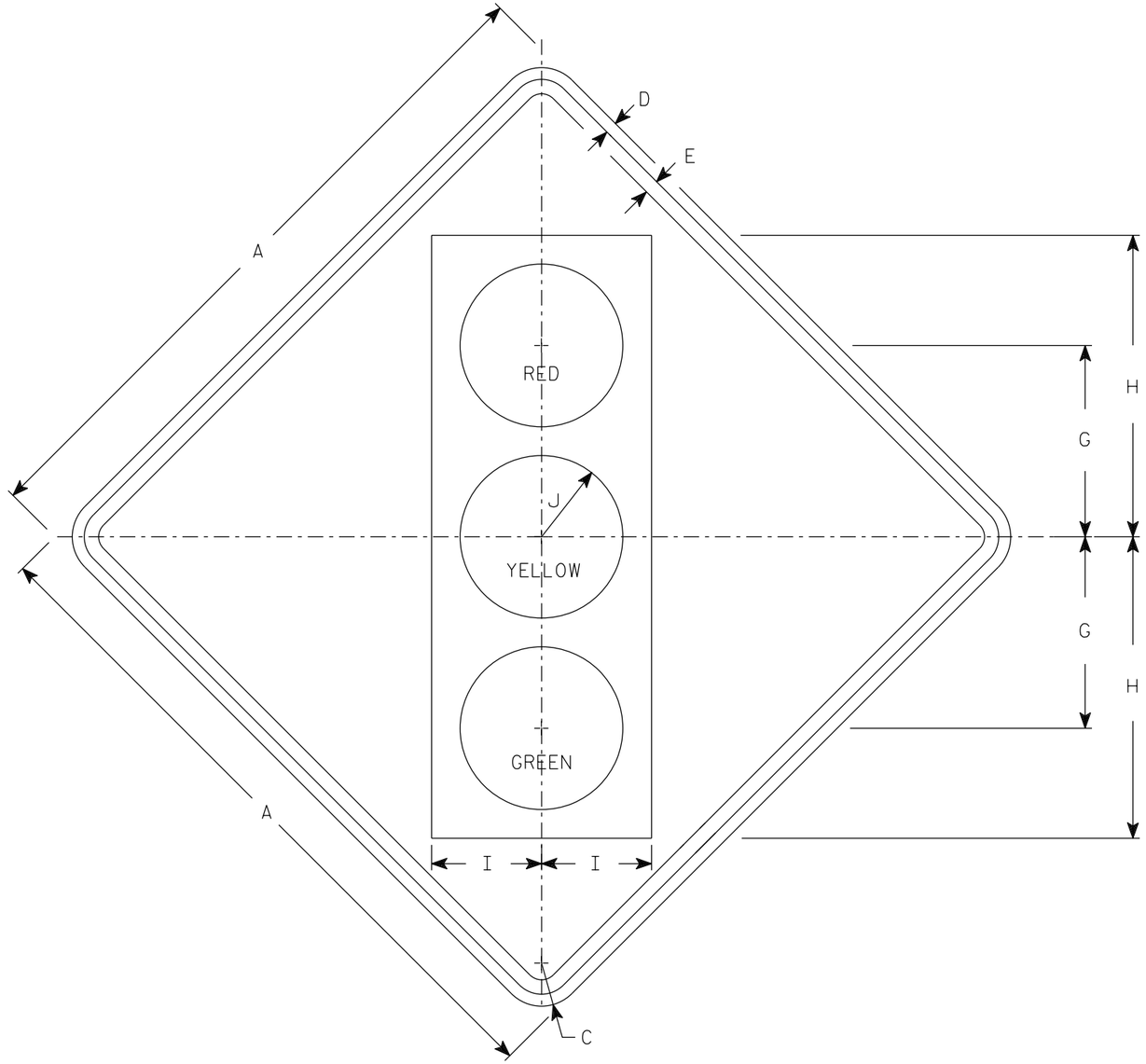
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. WO1-6.2

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

7

7



W03-3

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2S	48		3	3/4	1		12 1/2	20	7 1/2	5																	16.0
2M	48		3	3/4	1		12 1/2	20	7 1/2	5																	16.0
3	48		3	3/4	1		12 1/2	20	7 1/2	5																	16.0
4	48		3	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		3	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W03-3

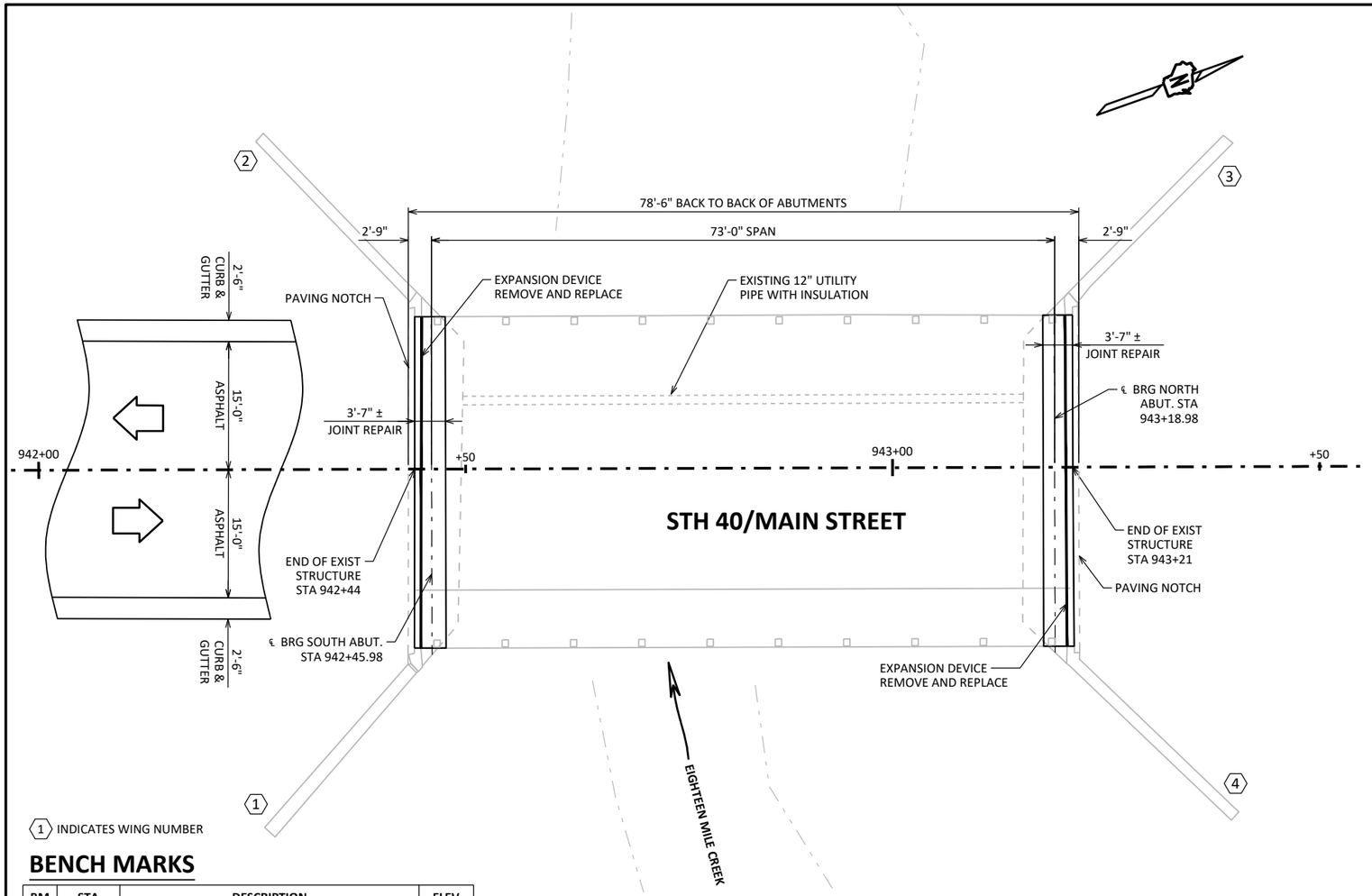
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. W03-3.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W033.DGN PLOT DATE : 24-JAN 2024 2:07 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



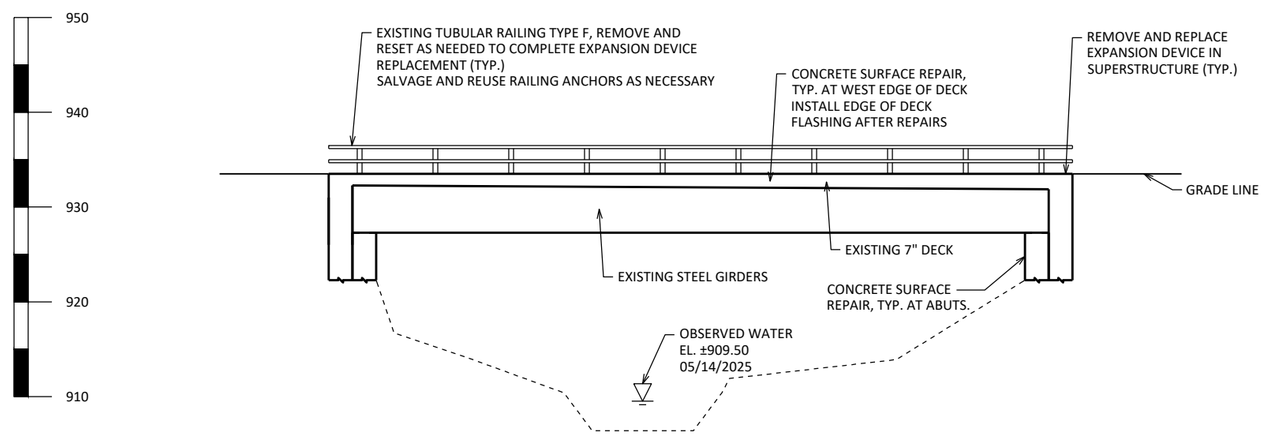
1 INDICATES WING NUMBER

BENCH MARKS

BM	STA	DESCRIPTION	ELEV
45	942+44	CHISELED 'X' ON ABUTMENT	934.00

PLAN

SINGLE SPAN FLAT SLAB



ELEVATION

NORMAL TO WATERWAY

DESIGN DATA

LIVE LOAD:

TAKEN FROM HSI, 12/28/2023
DESIGN LOADING: H20
INVENTORY RATING: HS13
OPERATING RATING: HS22
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 170 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY:
SUPERSTRUCTURE ——— f'_c = 4,000 PSI
ALL OTHER ——— f'_c = 3,500 PSI

BAR STEEL REINFORCEMENT
GRADE 60 ——— f_y = 60,000 PSI

STATE PROJECT NUMBER

8620-00-75

TRAFFIC DATA

STH 40:

A.A.D.T. = 4,110 (2026)
A.A.D.T. = 4,630 (2046)
R.D.S. = 30 MPH

LIST OF DRAWINGS:

1. GENERAL PLAN
2. TYPICAL SECTIONS, QUANTITIES, & NOTES
3. JOINT REPLACEMENT (1 OF 3)
4. JOINT REPLACEMENT (2 OF 3)
5. JOINT REPLACEMENT (3 OF 3)

SCOPE OF WORK

- REMOVAL AND REPLACEMENT OF EXPANSION DEVICES IN SUPERSTRUCTURE
- CONCRETE SURFACE REPAIR AT WEST EDGE OF DECK
- CONCRETE SURFACE REPAIR AT ABUTMENT LOCATIONS AS DIRECTED BY ENGINEER
- INSTALL EDGE OF DECK FLASHING AT WEST EDGE OF DECK
- REMOVE AND RESET TUBULAR RAILING TYPE F AS NEEDED

WISCONSIN
BRANDON D. KAISER
E-45035
STRATFORD
WI
PROFESSIONAL ENGINEER

August 22, 2025

STRUCTURE DESIGN CONTACTS:

CONSULTANT CONTACT:
DEXTER KAETTERHENRY
715-341-4363

BRIDGE OFFICE CONTACT:
AARON BONK
608-261-0261

NO.	DATE	REVISION	BY

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED JLR 09/10/25
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-17-984

STH 40-MAIN STREET OVER EIGHTEEN MILE CREEK

COUNTY	VILLAGE
DUNN	COLFAX

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATION

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
BDK	RTA	BDK	RTA

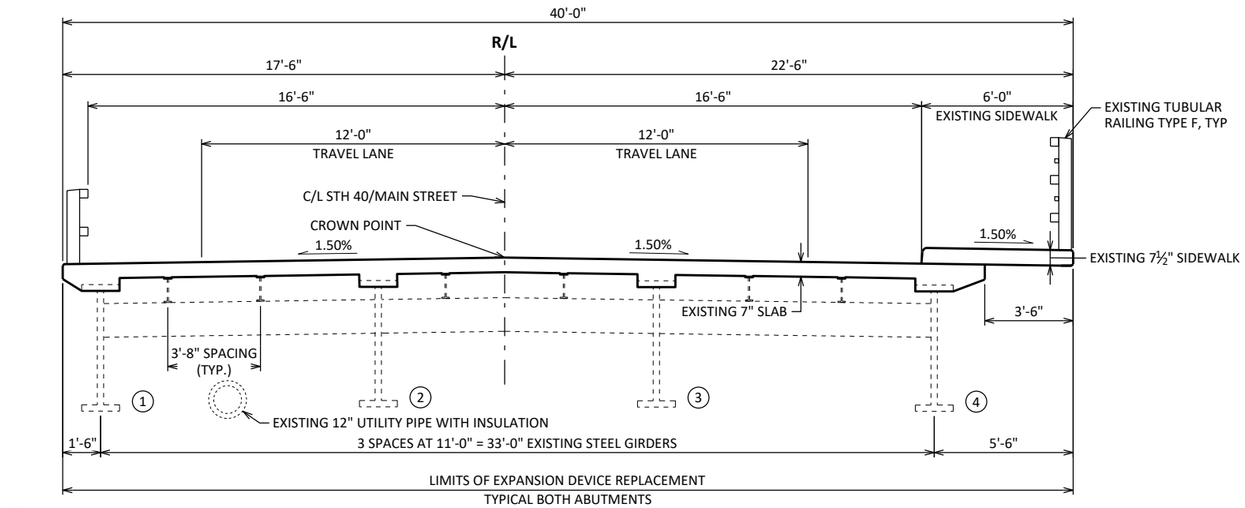
GENERAL PLAN

SHEET 1 OF 5
323

SCALE = 16.0

8

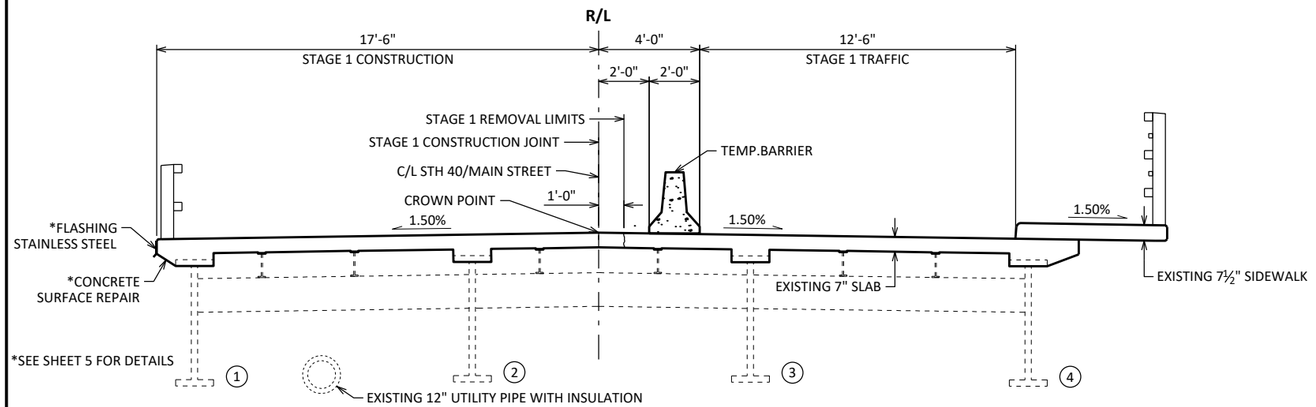
8



(1) INDICATES GIRDER NUMBER

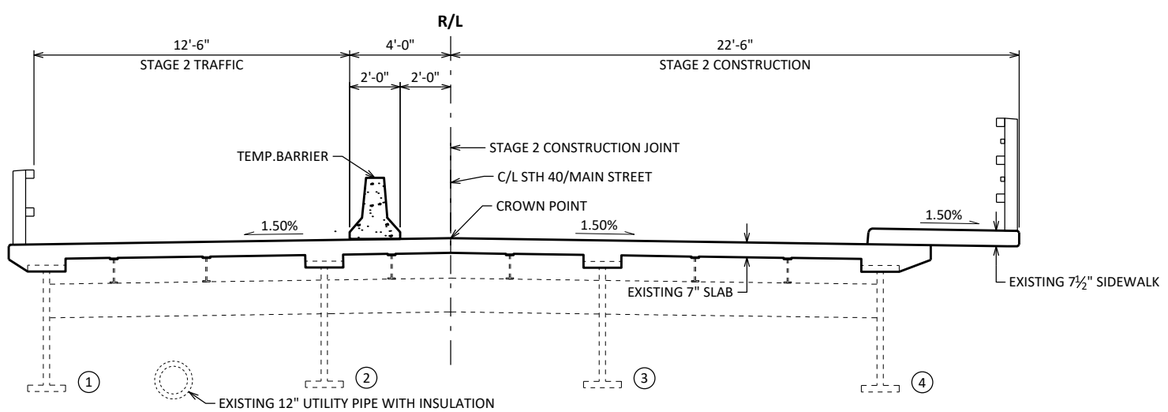
EXISTING TYPICAL SECTION - STH 40

LOOKING NORTH



CROSS SECTION THRU BRIDGE - STAGE 1

LOOKING NORTH



CROSS SECTION THRU BRIDGE - STAGE 2

LOOKING NORTH

STATE PROJECT NUMBER

8620-00-75

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" OR MATCH EXISTING BEVELS UNLESS NOTED OTHERWISE.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1 ½" DEEP SAW CUT.

UNDER THE BID ITEM "ADHESIVE ANCHORS NO. 5 BAR", ANCHORED REINFORCING STEEL SHALL BE PAID SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

APPLY "PROTECTIVE SURFACE TREATMENT" TO THE ENTIRE TOP OF THE NEW CONCRETE AT THE NEW DECK ASSOCIATED WITH THE JOINT REPLACEMENT.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

NEW CONCRETE AT JOINT REPAIR IS PAID FOR AS "CONCRETE MASONRY DECK REPAIR". THIS INCLUDES THE CONCRETE TO REPLACE SECTIONS OF SIDEWALK WITHIN THE REPAIR LIMITS.

"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON THE BRIDGE INSPECTION REPORT AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.

THE UTILITY INFORMATION SHOWN ON THE DRAWINGS CONCERNING TYPE AND LOCATION IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

ANY EXCAVATION REQUIRED TO COMPLETE THE JOINT REPAIR AT THE ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "JOINT REPAIR".

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
203.0335	DEBRIS CONTAINMENT OVER WATERWAY (B-17-984)	EACH	1
502.3101	EXPANSION DEVICE	LF	80
502.3200	PROTECTIVE SURFACE TREATMENT	SY	36
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	74
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,326
505.0904	BAR COUPLERS NO. 4	EACH	8
505.0905	BAR COUPLERS NO. 5	EACH	20
505.0906	BAR COUPLERS NO. 6	EACH	10
509.1000	JOINT REPAIR	SY	32
509.1500	CONCRETE SURFACE REPAIR	SF	110
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	16
513.9006.S	REMOVING AND RESETTING TUBULAR RAILING B-17-0984	EACH	1
SPV.0090	FLASHING STAINLESS STEEL	LF	75
	NON-BID ITEMS		
-----	JOINT FILLER	SIZE	1/2" & 3/4"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-17-984

DRAWN BY BDK | PLANS CK'D RTA

TYPICAL SECTIONS, QUANTITIES, & NOTES

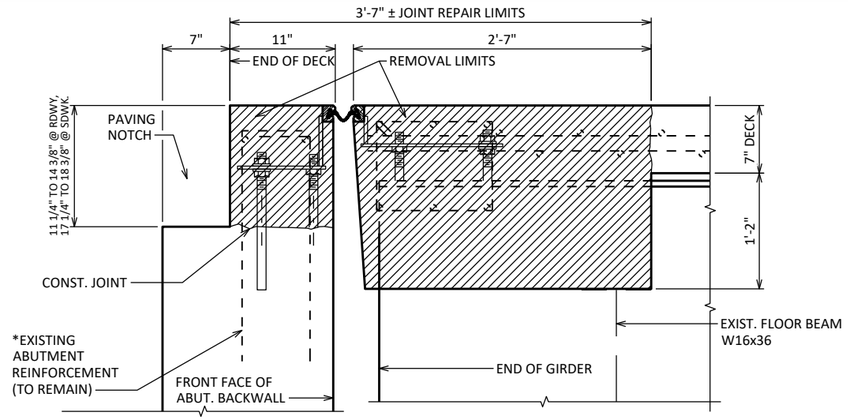
SHEET 2 OF 5

324

SCALE = 6.00

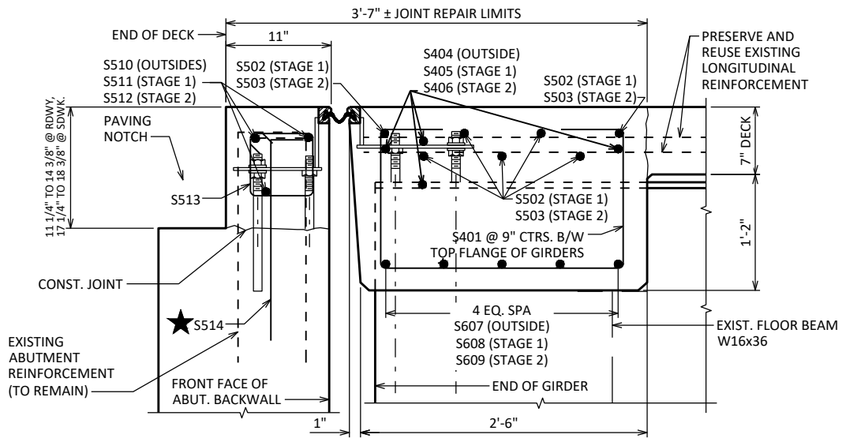
8

8



EXISTING SECTION THRU JOINT AT ABUTMENT

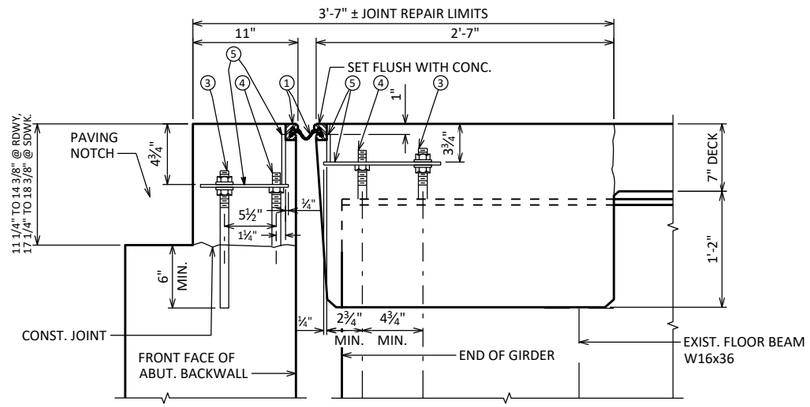
NORMAL TO C/L SUBSTRUCTURE



PROPOSED SECTION THRU JOINT AT ABUTMENT

(REINFORCEMENT DETAILS)

NORMAL TO C/L SUBSTRUCTURE



PROPOSED SECTION THRU JOINT AT ABUTMENT

(EXPANSION DEVICE COMPONENTS)

NORMAL TO C/L SUBSTRUCTURE

EXPANSION JOINT NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, ANCHOR PLATES SHALL BE PROVIDED 3" FROM EACH SIDE OF THE FIELD SPLICE. DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

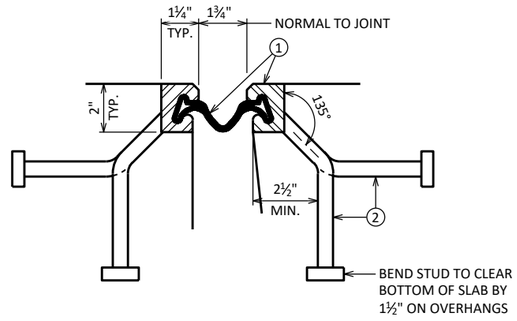
FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO SIDEWALK COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

ALL MATERIAL IN THE EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID AT THE UNIT PRICE BID FOR "EXPANSION DEVICE", LF.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.



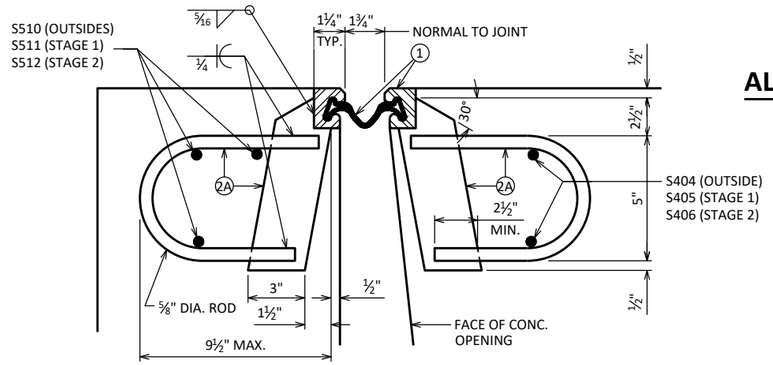
SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS

LEGEND

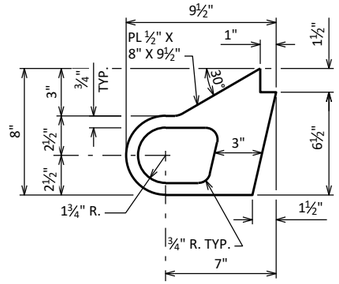
1. NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.
2. STUDS ⅝" DIA. X 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
2A. ½" THICK ANCHOR PLATE WITH ⅝" DIA. ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
3. ¾" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
4. ¾" DIA. THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
5. FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1½" DIA. HOLE FOR NO. 3 AND 1" DIA. HOLE FOR NO. 4.
7. ¾" DIA. X 1½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 3/16" BELOW PLATE SURFACE.
8. ¾" DIA. X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
9. ¾" DIA. X 2¼" GALVANIZED THREADED COUPLING.
10. 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.
11. SIDEWALK COVER PLATE ⅜" X 2'-0" X LIMITS SHOWN. BEND DOWN FACE OF SIDEWALK WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.

★ EXISTING BARS MAY BE CORRODED AND/OR DAMAGED DURING CONCRETE REMOVAL. PRESERVE AND INCORPORATE AS MUCH REBAR AS PRACTICAL. SUPPLEMENT WITH S507 ADHESIVE ANCHORS, NO. 5 BARS AS INDICATED. EMBED A MINIMUM OF 1'-0" INTO CONCRETE. SPACE AT 1'-0" MAX. AND AVOID EXPANSION JOINT HARDWARE. TURN 10" LEG AS NECCESSARY TO FIT. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.



SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS



ALTERNATE STRIP SEAL ANCHOR

STATE PROJECT NUMBER

8620-00-75

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-17-984

DRAWN BY BDK | PLANS CK'D RTA

JOINT REPLACEMENT (1 OF 3)

SHEET 3 OF 5
325

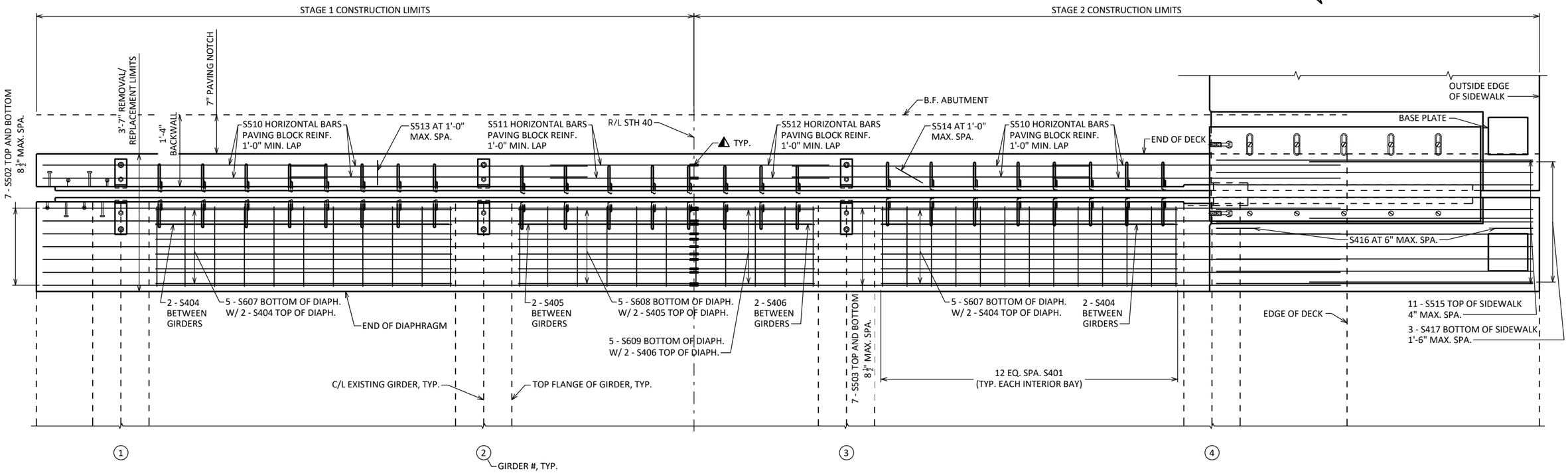
SCALE =

8

8

STATE PROJECT NUMBER

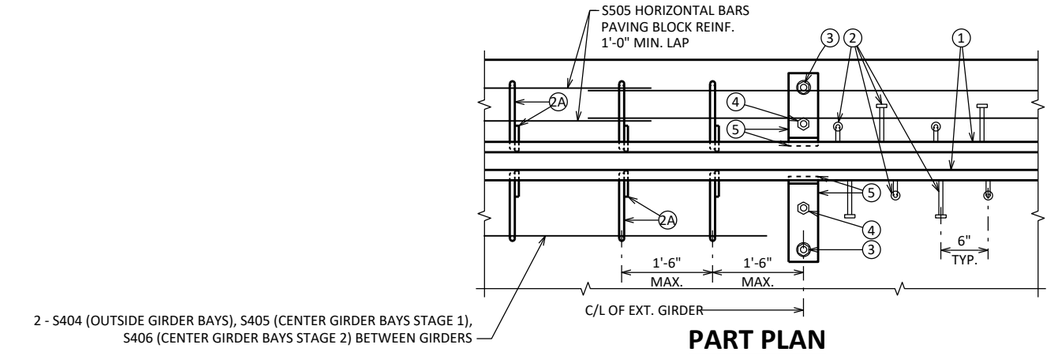
8620-00-75



PLAN AT NORTH ABUTMENT EXPANSION JOINT REPLACEMENT

(SOUTH ABUTMENT SIMILAR)
(EXISTING REINFORCEMENT NOT SHOWN FOR CLARITY)

⚠ BAR COUPLER REQUIRED. BAR LENGTH COMPUTED TO C/L OF LONGITUDINAL JOINT & SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS RECOMMENDATIONS.



PART PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-17-984

DRAWN BY BDK | PLANS CK'D RTA

JOINT REPLACEMENT (2 OF 3)

SHEET 4 OF 5

326

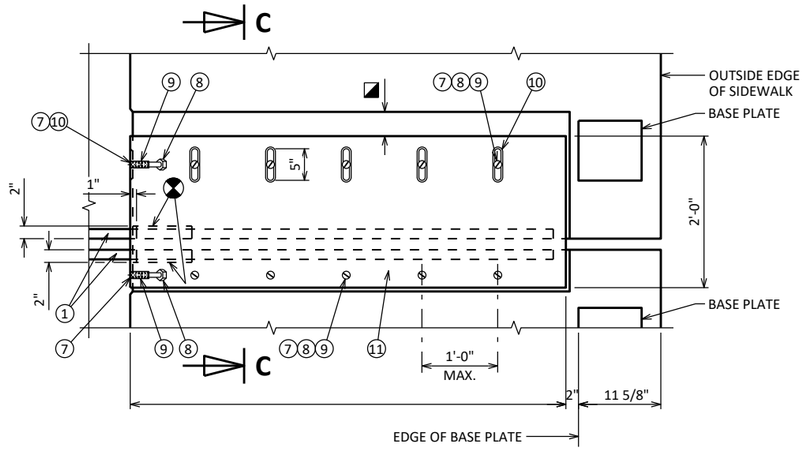
SCALE =

8

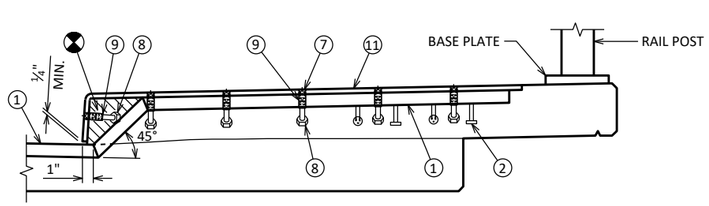
8

STATE PROJECT NUMBER

8620-00-75

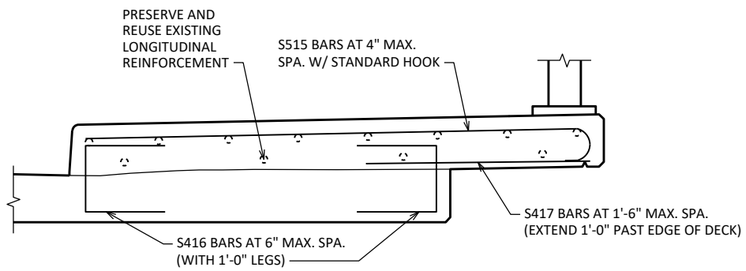


PLAN AT SIDEWALK



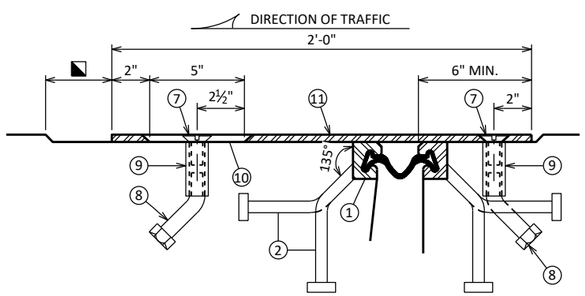
SECTION AT SIDEWALK

EXPANSION JOINT DETAIL



SECTION AT SIDEWALK

REINFORCEMENT DETAIL
(DECK REINFORCEMENT NOT SHOWN FOR CLARITY)



SECTION C-C

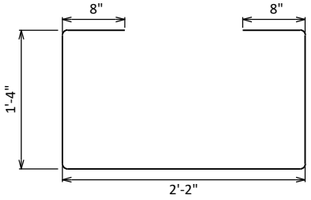
BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

JOINT OPENING DIMENSION ALONG SKEW PLUS ½".

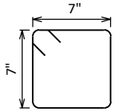
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

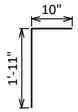
	BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
	S401	X	78	5'-10"	X		DIAPHRAGM STIRRUPS
⚠	S502	X	14	17'-4"			DECK TRANSVERSE (STAGE 1)
⚠	S503	X	14	18'-10"			DECK TRANSVERSE (STAGE 2)
	S404	X	16	9'-2"			DIAPHRAGM TOP OUTSIDE GIRDER BAYS
⚠	S405	X	8	4'-7"			DIAPHRAGM TOP INSIDE GIRDER BAY (STAGE 1)
⚠	S406	X	8	4'-7"			DIAPHRAGM TOP INSIDE GIRDER BAY (STAGE 2)
	S607	X	20	9'-2"			DIAPHRAGM BOTTOM OUTSIDE GIRDER BAYS
⚠	S608	X	10	4'-7"			DIAPHRAGM BOTTOM INSIDE GIRDER BAY (STAGE 1)
⚠	S609	X	10	4'-7"			DIAPHRAGM BOTTOM INSIDE GIRDER BAY (STAGE 2)
	S510	X	24	7'-9"			PAVING BLOCK - HORIZONTAL
⚠	S511	X	6	3'-11"			PAVING BLOCK - HORIZONTAL (STAGE 1)
⚠	S512	X	6	3'-11"			PAVING BLOCK - HORIZONTAL (STAGE 2)
	S513	X	74	3'-0"	X		PAVING BLOCK - STIRRUP
	S514	X	74	2'-8"	X		PAVING BLOCK - ANCHOR
	S515	X	22	6'-3"	X		SIDEWALK - TRANSVERSE - TOP
	S416	X	32	2'-8"	X		SIDEWALK - STIRRUP
	S417	X	6	4'-4"			SIDEWALK - TRANSVERSE - BOTTOM



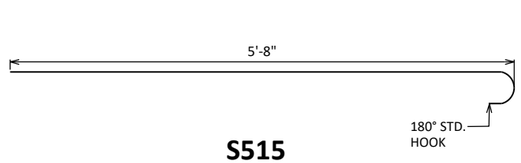
S401



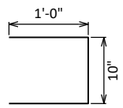
S513



S514



S515



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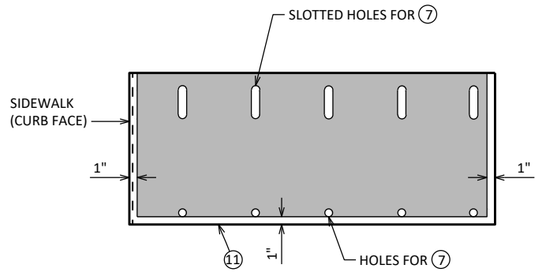


PLAN OF SIDEWALK COVER PLATE WITH SLIP-RESISTANT SURFACE

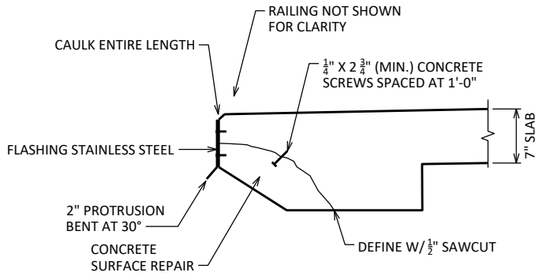
PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA ONLY.

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

LEGEND

1. NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.
2. STUDS ⅝" DIA. X 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
2A. ½" THICK ANCHOR PLATE WITH ⅝" DIA. ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
3. ¾" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
4. ¾" DIA. THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
5. FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1½" DIA. HOLE FOR NO. 3 AND 1" DIA. HOLE FOR NO. 4.
7. ¾" DIA. X 1½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
8. ¾" DIA. X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
9. ¾" DIA. X 2¼" GALVANIZED THREADED COUPLING.
10. 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.
11. SIDEWALK COVER PLATE ¾" X 2'-0" X LIMITS SHOWN. BEND DOWN FACE OF SIDEWALK WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.

⚠ BAR COUPLER REQUIRED. BAR LENGTH COMPUTED TO C/L OF LONGITUDINAL JOINT & SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURERS RECOMMENDATIONS.



REHABILITATION FLASHING DETAIL

FLASHING NOTES

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING, SILICONE CAULK, AND 3/16" CONCRETE SCREWS.

FLASHING TO BE INSTALLED AFTER CONCRETE SURFACE REPAIR AND PROTECTIVE SURFACE TREATMENT APPLICATION.

CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

EXTEND FLASHING TO F.F. OF ABUTMENT.

TOP OF FLASHING TO BEGIN APPROX. 1-INCH BELOW TOP OF SLAB SURFACE.

THE FLASHING IS TO BE A CONSTANT HEIGHT BASED ON THE THINNEST SLAB DEPTH OVER THE BRIDGE LENGTH.

PROVIDE 2" MINIMUM FLASHING OVERLAP, FASTEN WITH 3/16" X 2" (MIN.) CONCRETE SCREWS.

CAULK SHALL BE NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-17-984

DRAWN BY BDK | PLANS CK'D RTA

JOINT REPLACEMENT (3 OF 3)

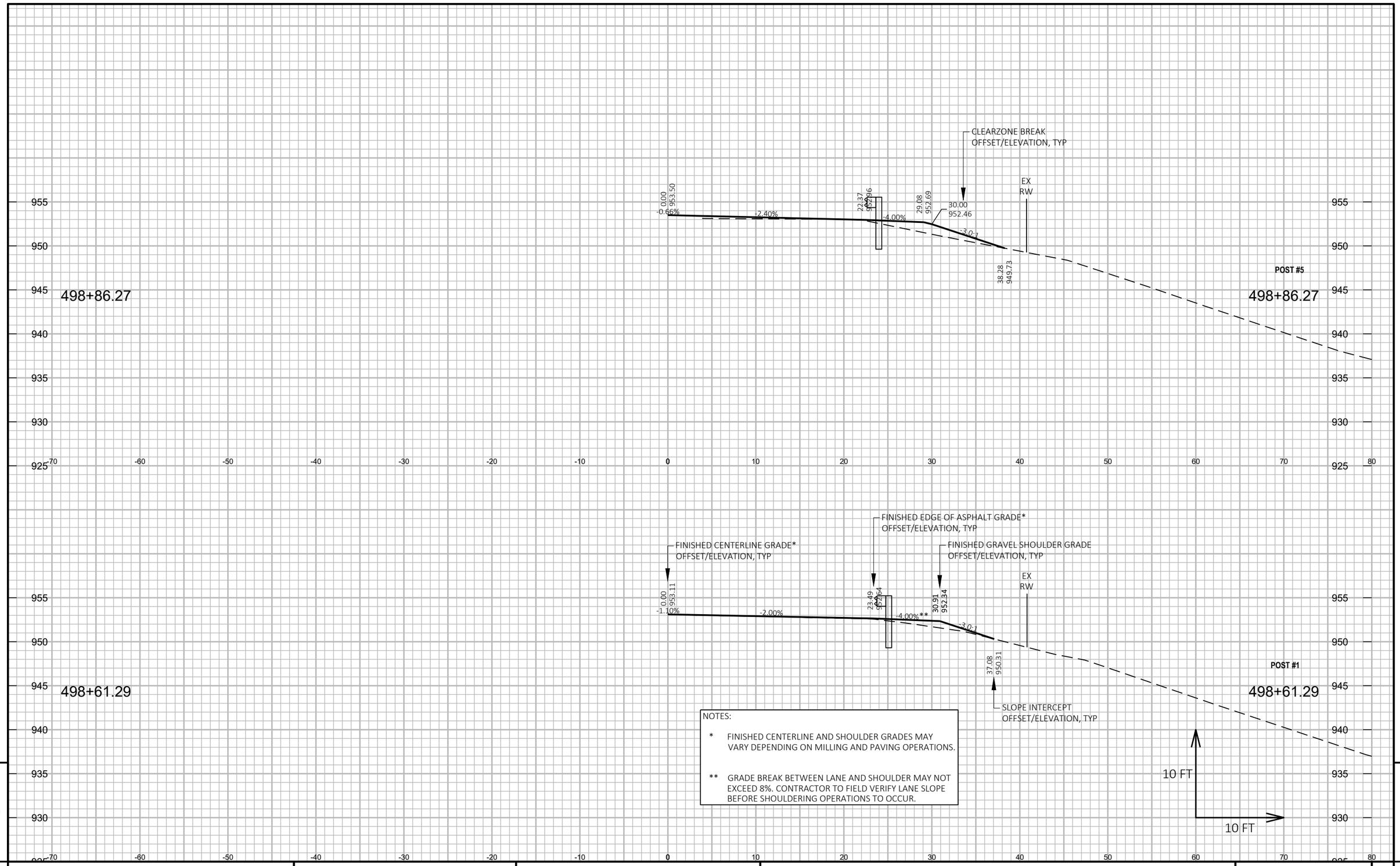
SHEET 5 OF 5

327

SCALE =

8

8



NOTES:

* FINISHED CENTERLINE AND SHOULDER GRADES MAY VARY DEPENDING ON MILLING AND PAVING OPERATIONS.

** GRADE BREAK BETWEEN LANE AND SHOULDER MAY NOT EXCEED 8%. CONTRACTOR TO FIELD VERIFY LANE SLOPE BEFORE SHOULDERING OPERATIONS TO OCCUR.

9

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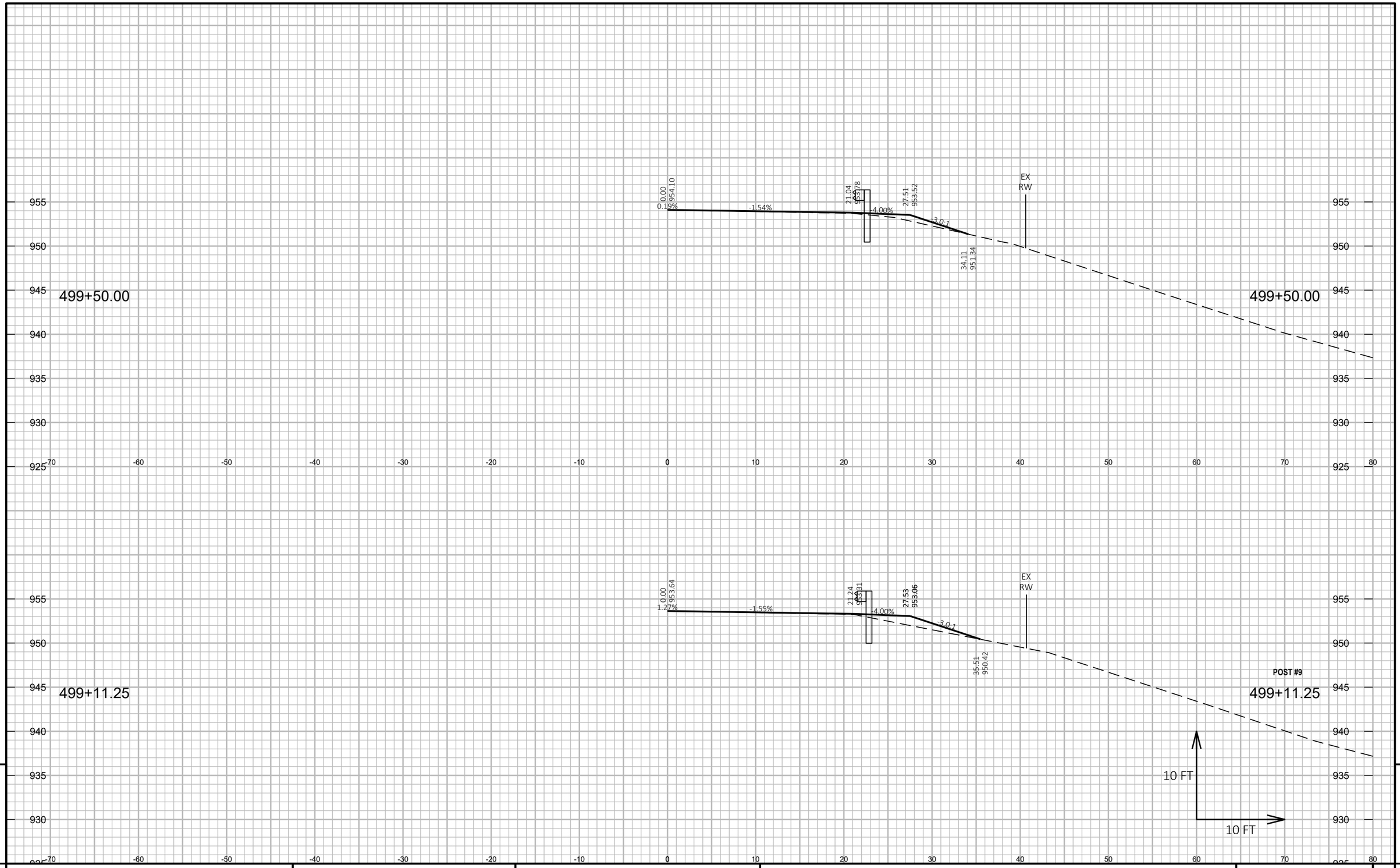
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 328	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 01

PLOT DATE : 8/1/2025 11:28 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 329	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 02

PLOT DATE : 8/1/2025 11:28 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

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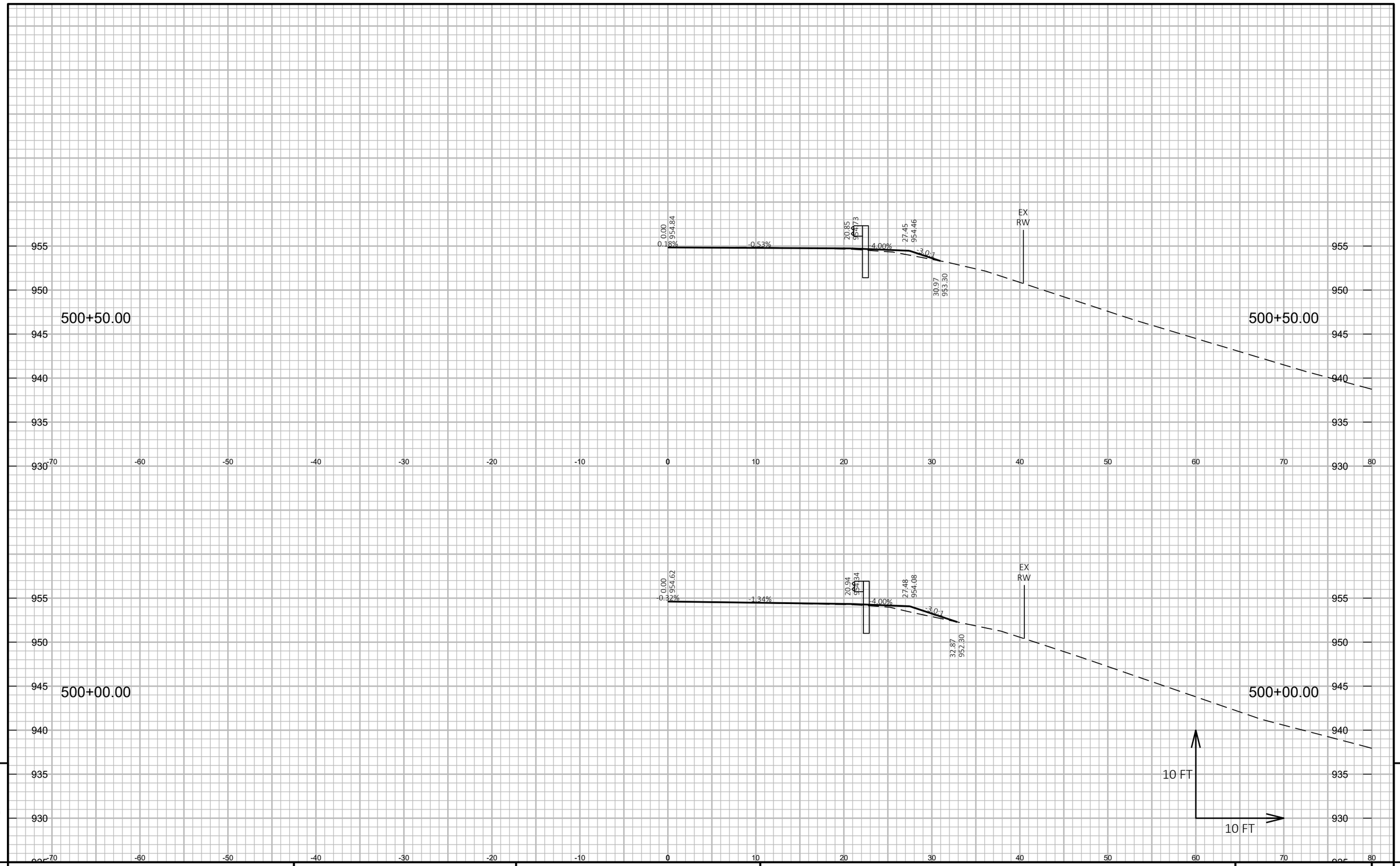

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PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 330	E

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LAYOUT NAME - 03

PLOT DATE : 8/1/2025 11:28 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

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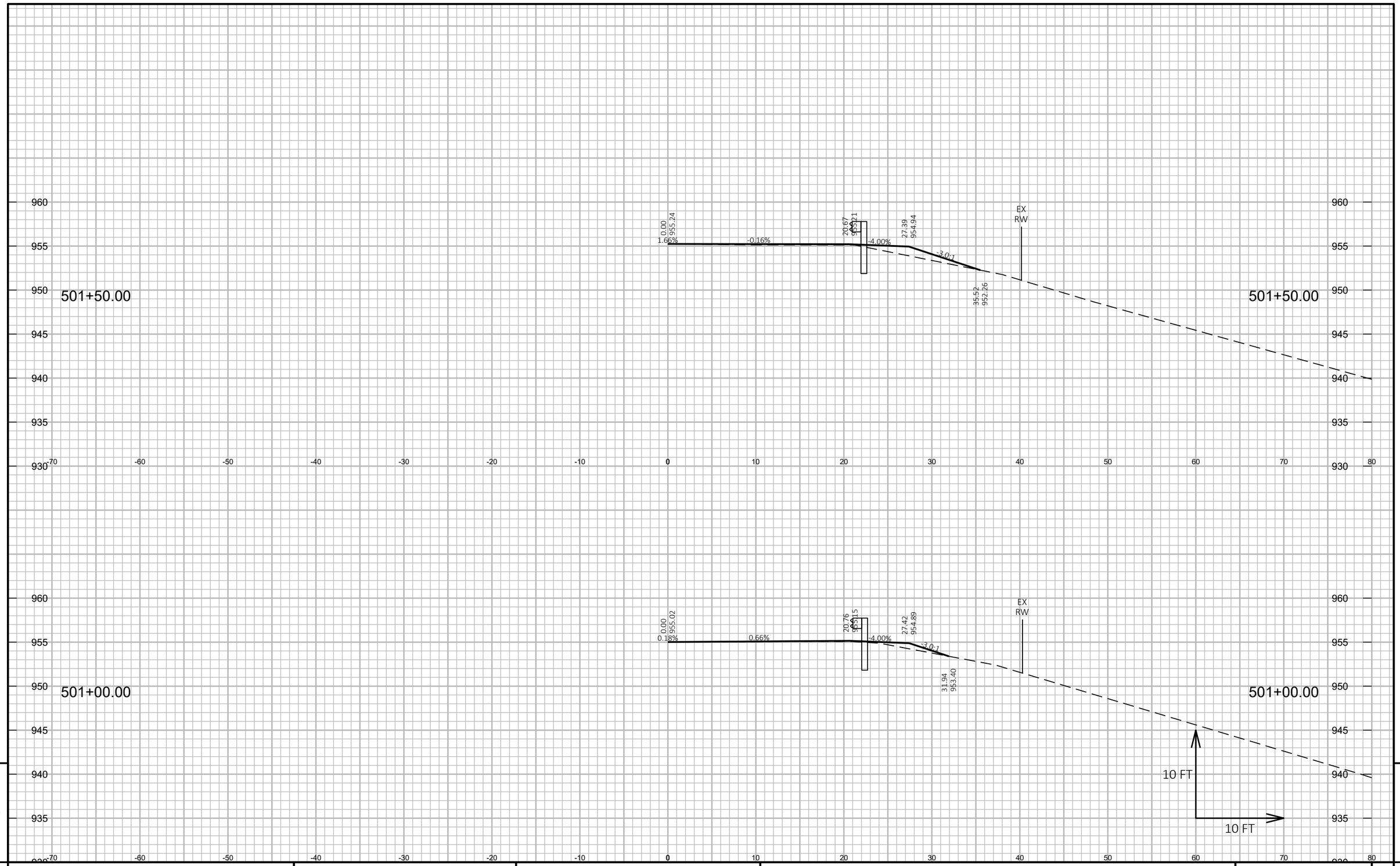

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PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 331	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 04

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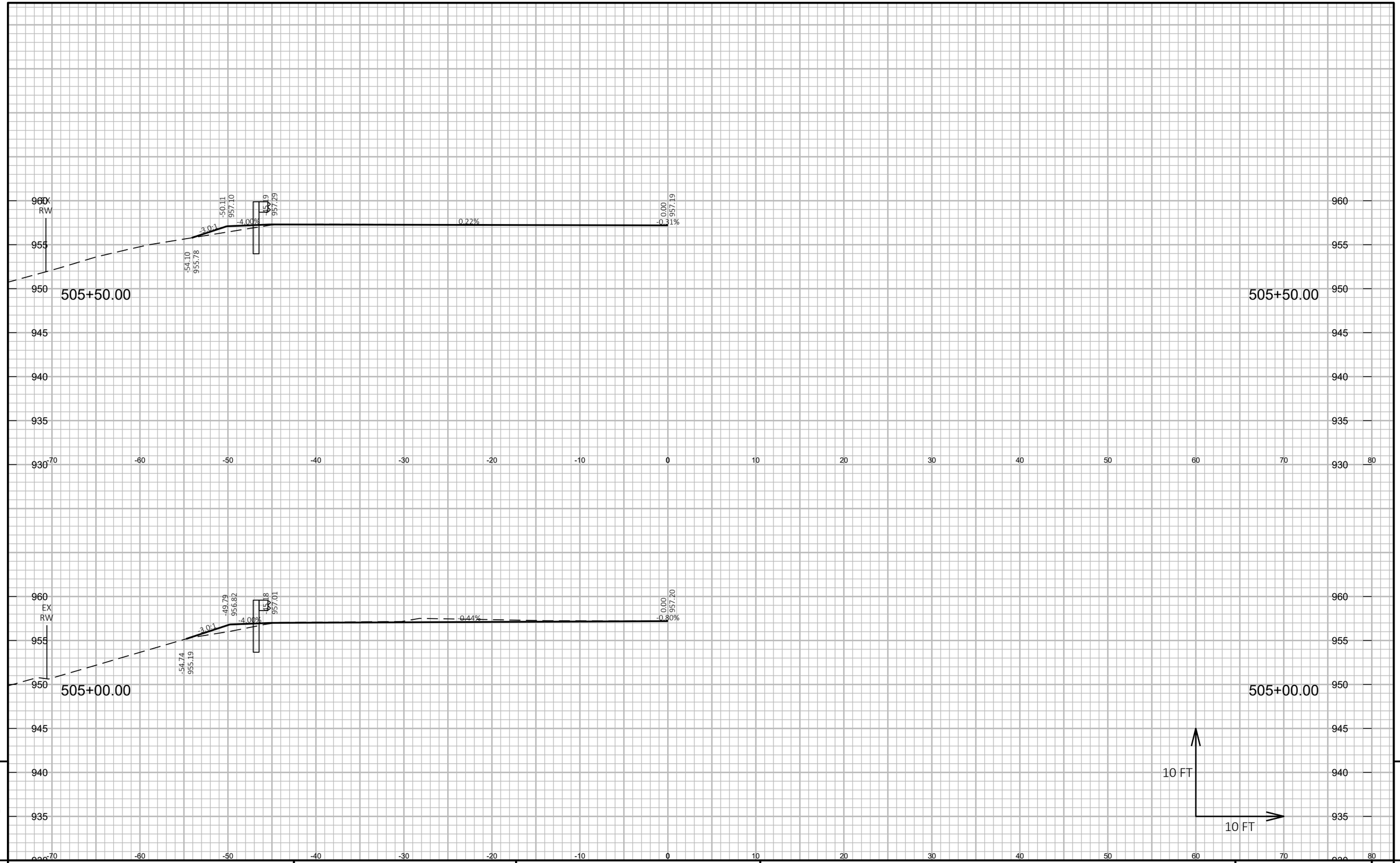

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LAYOUT NAME - 05

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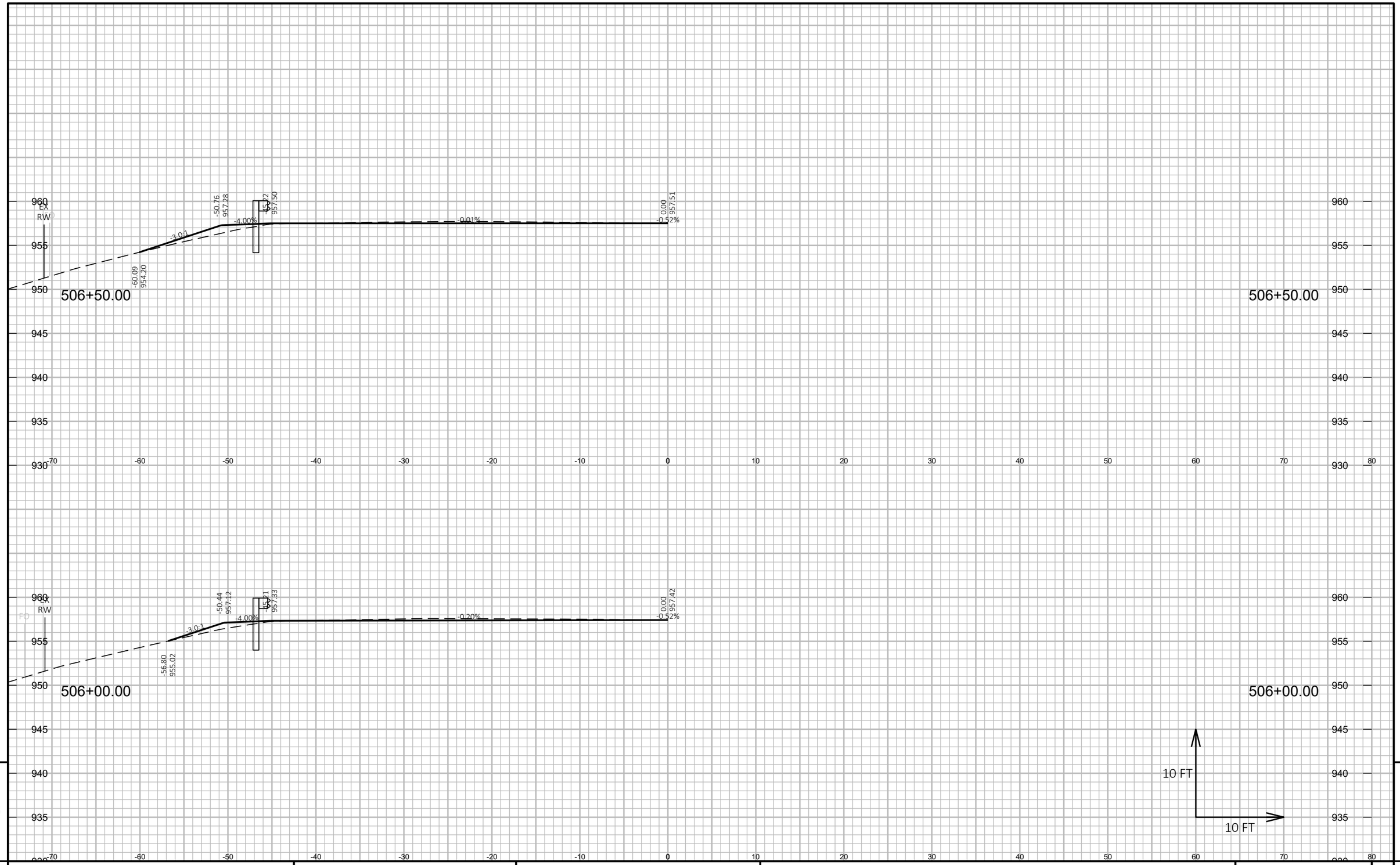

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LAYOUT NAME - 06

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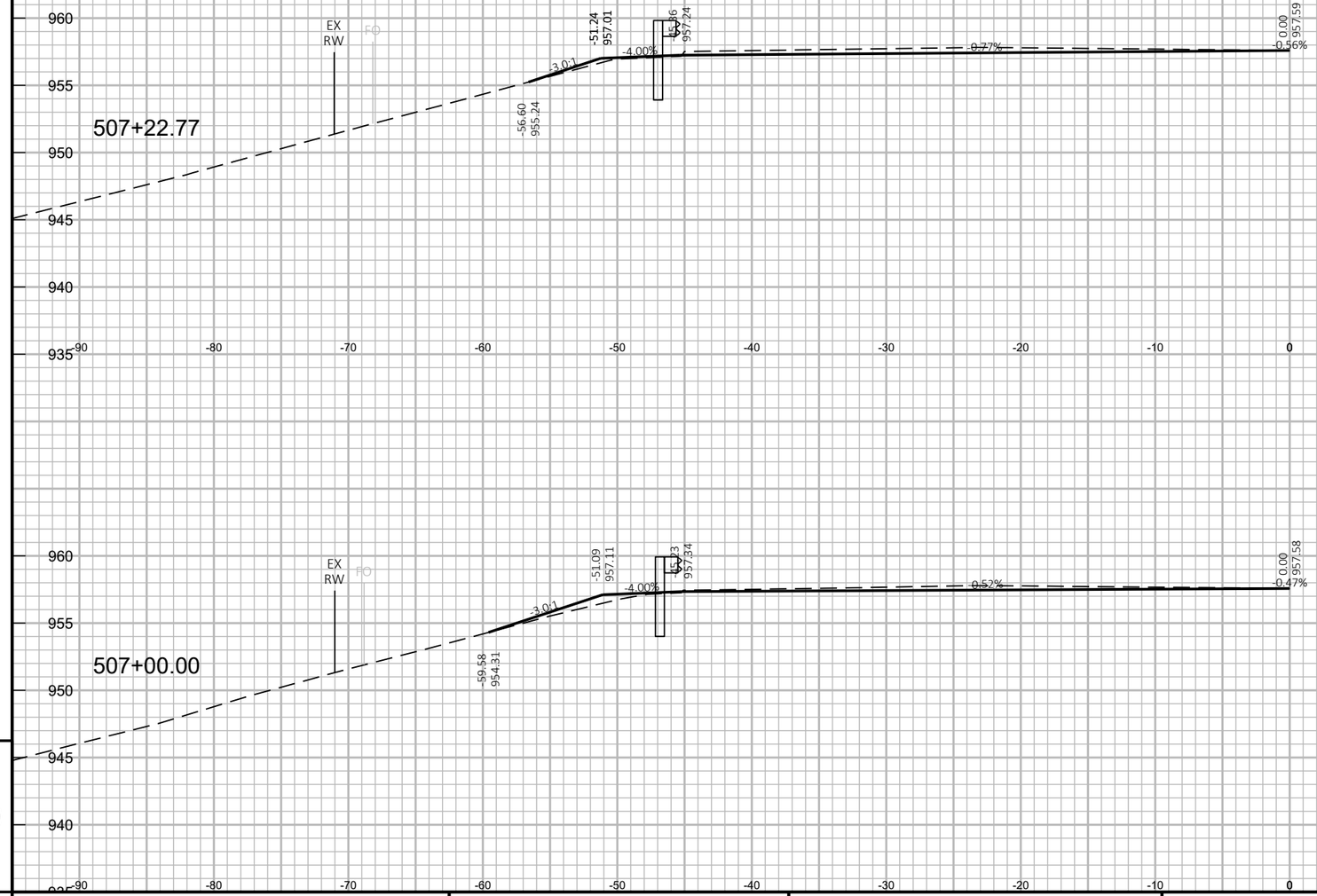

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PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 334	E

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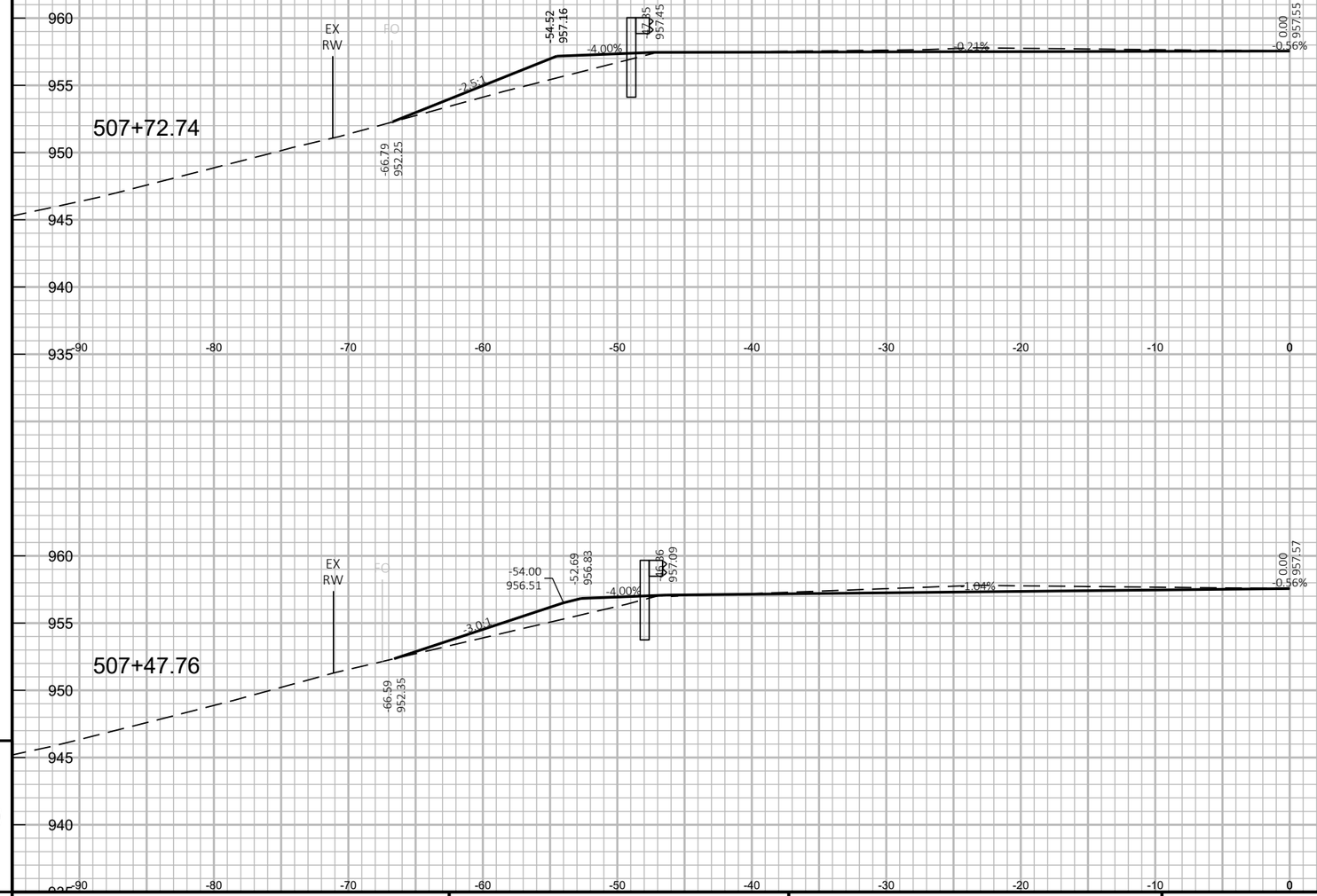
LAYOUT NAME - 07

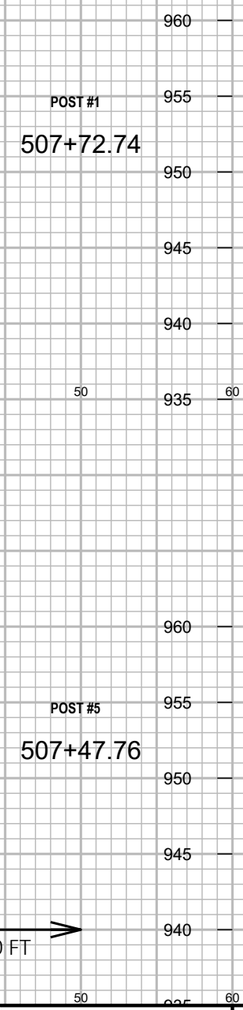
PLOT DATE : 8/1/2025 11:28 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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





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PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 335	E

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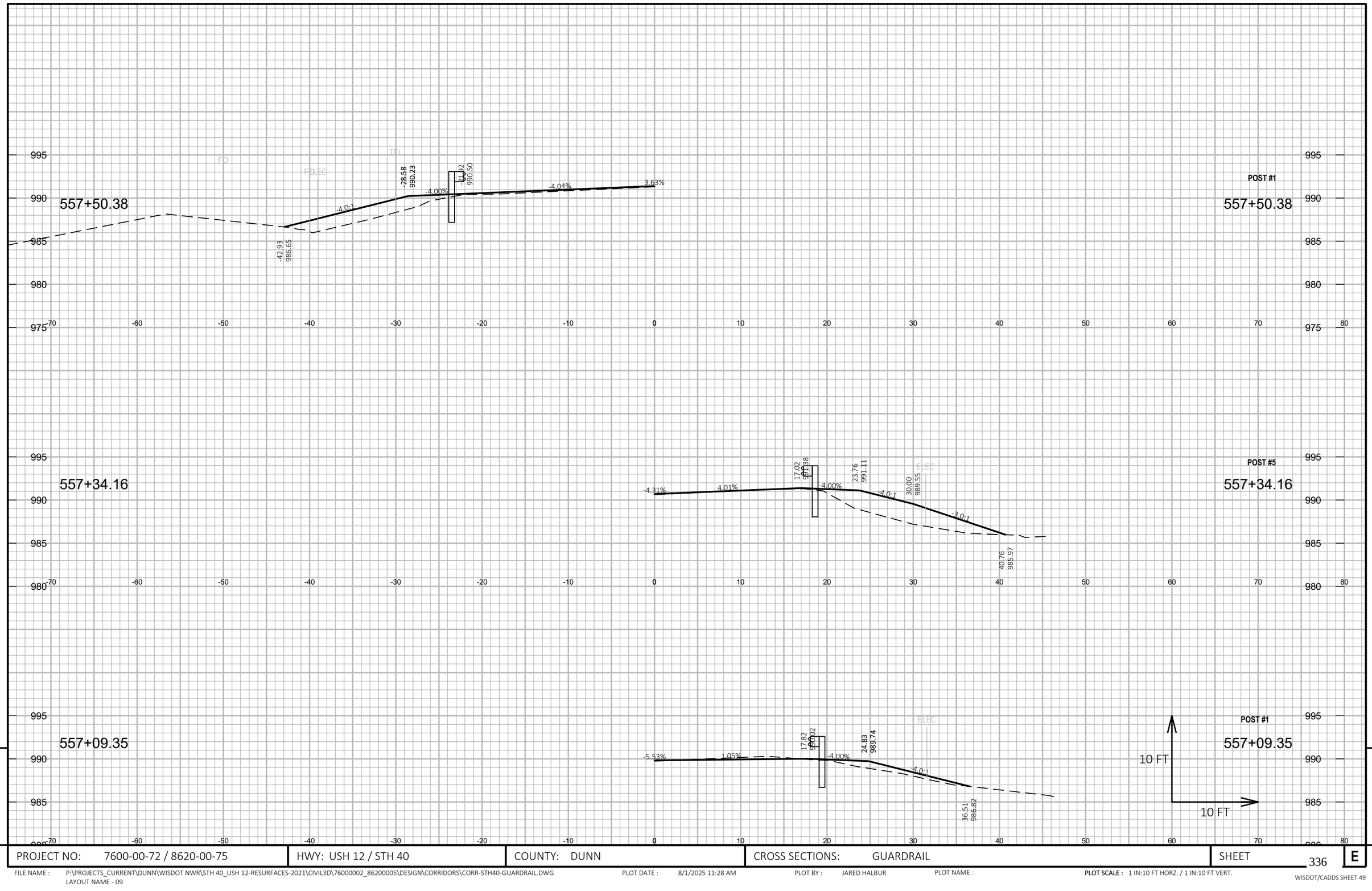
LAYOUT NAME - 08

PLOT DATE : 8/1/2025 11:28 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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LAYOUT NAME - 09

PLOT DATE : 8/1/2025 11:28 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

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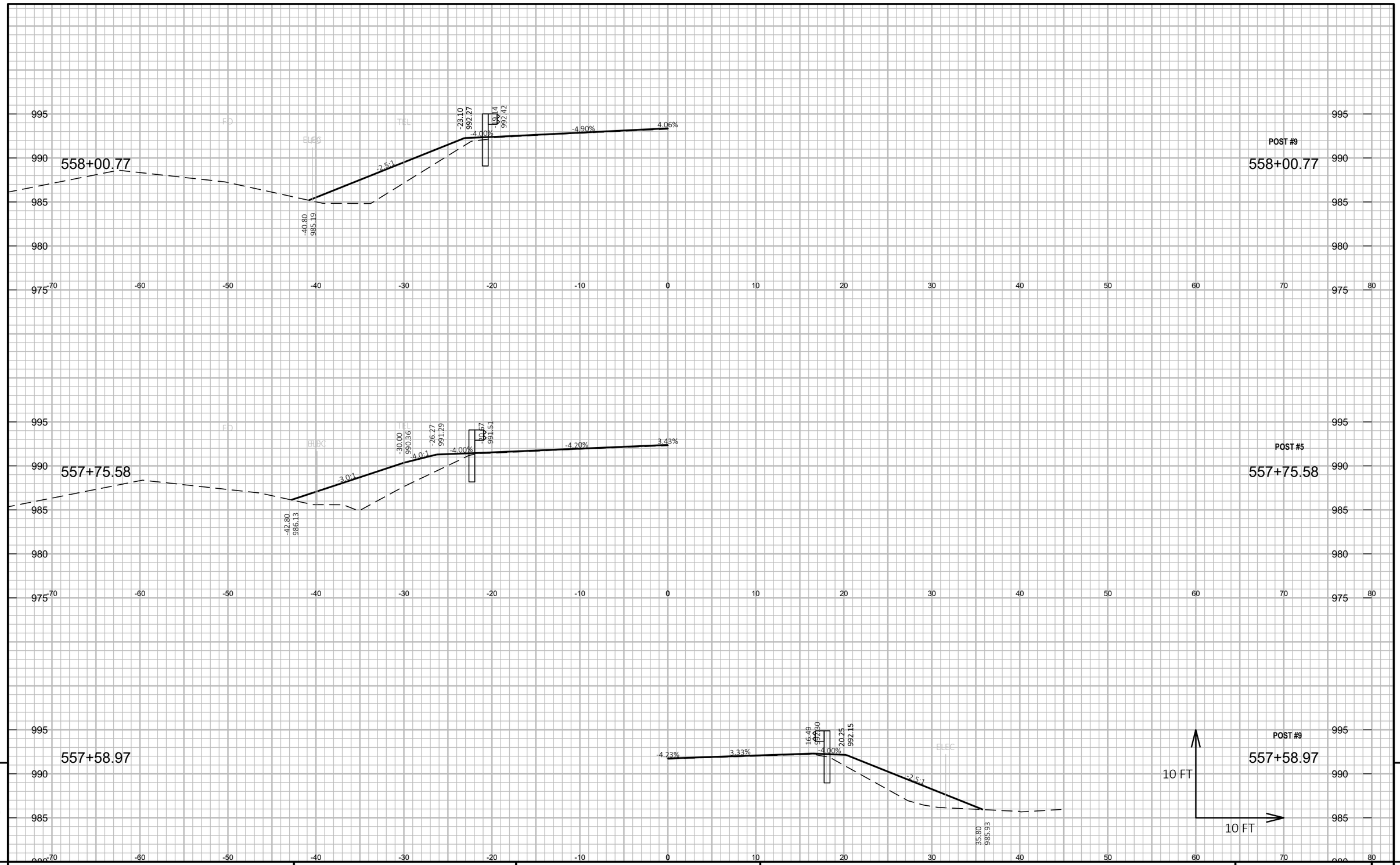

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PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 337	E

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LAYOUT NAME - 10

PLOT DATE : 8/1/2025 11:28 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

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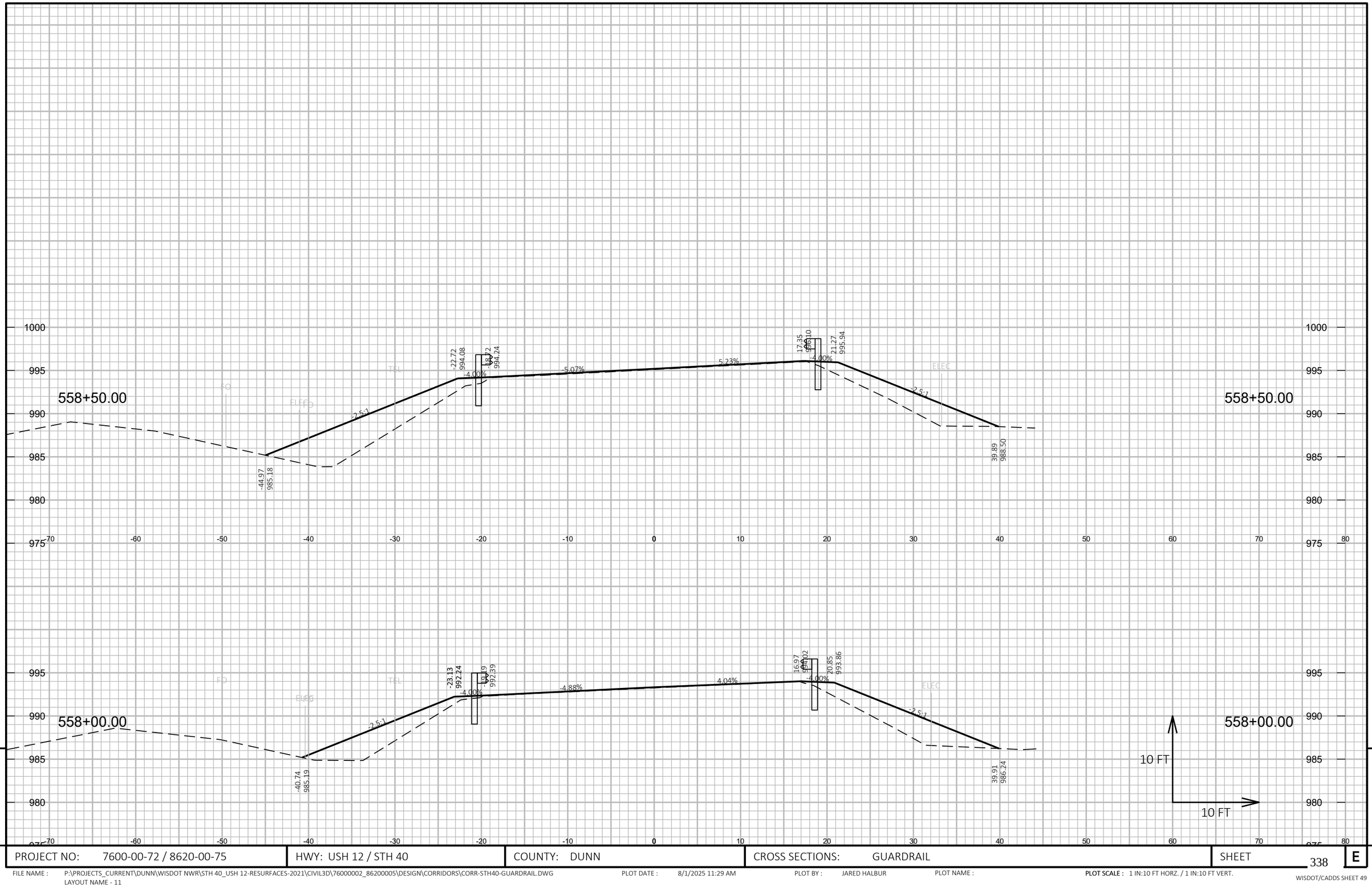

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PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 338	E

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LAYOUT NAME - 11

PLOT DATE : 8/1/2025 11:29 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

559+64.86

-3.87%
0.81%
-4.00%
3.0:1
18.07
1000.13
22.48
999.96
36.57
995.31

POST #9

559+64.86

559+50.00

-22.28
998.48
-18.21
998.64
-4.00%
-4.07%
1.91%
-4.00%
2.5:1
17.89
999.73
21.88
999.57
2.5:1
35.14
994.26
-49.81
987.47

559+50.00

559+00.00

-22.50
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-18.50
996.46
-4.00%
-4.79%
3.47%
-4.00%
2.5:1
17.62
999.96
21.57
997.80
2.5:1
37.92
991.26
-49.27
985.60

559+00.00

10 FT
10 FT

9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 339	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 12

PLOT DATE : 8/1/2025 11:29 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

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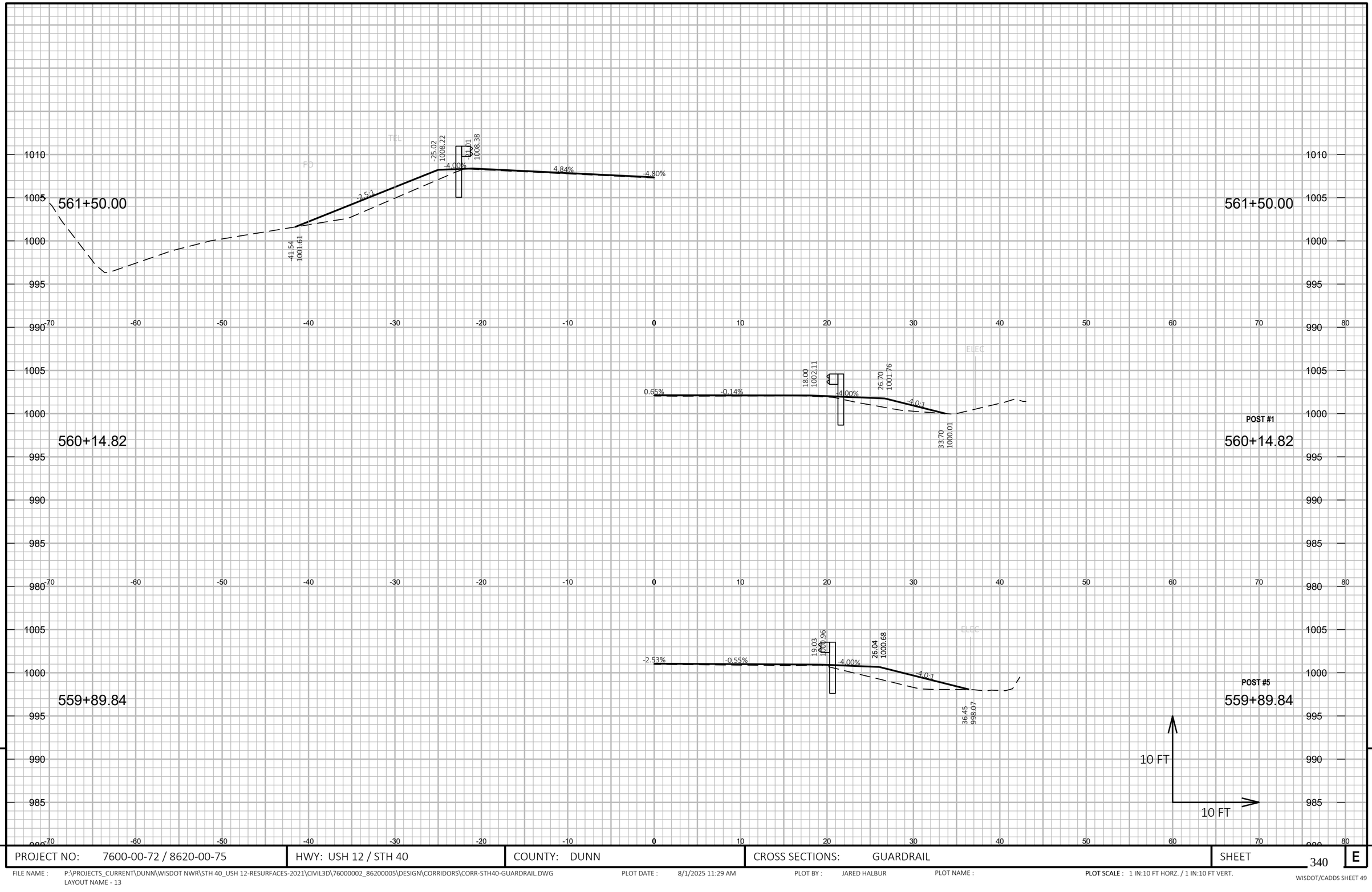

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PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 340	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
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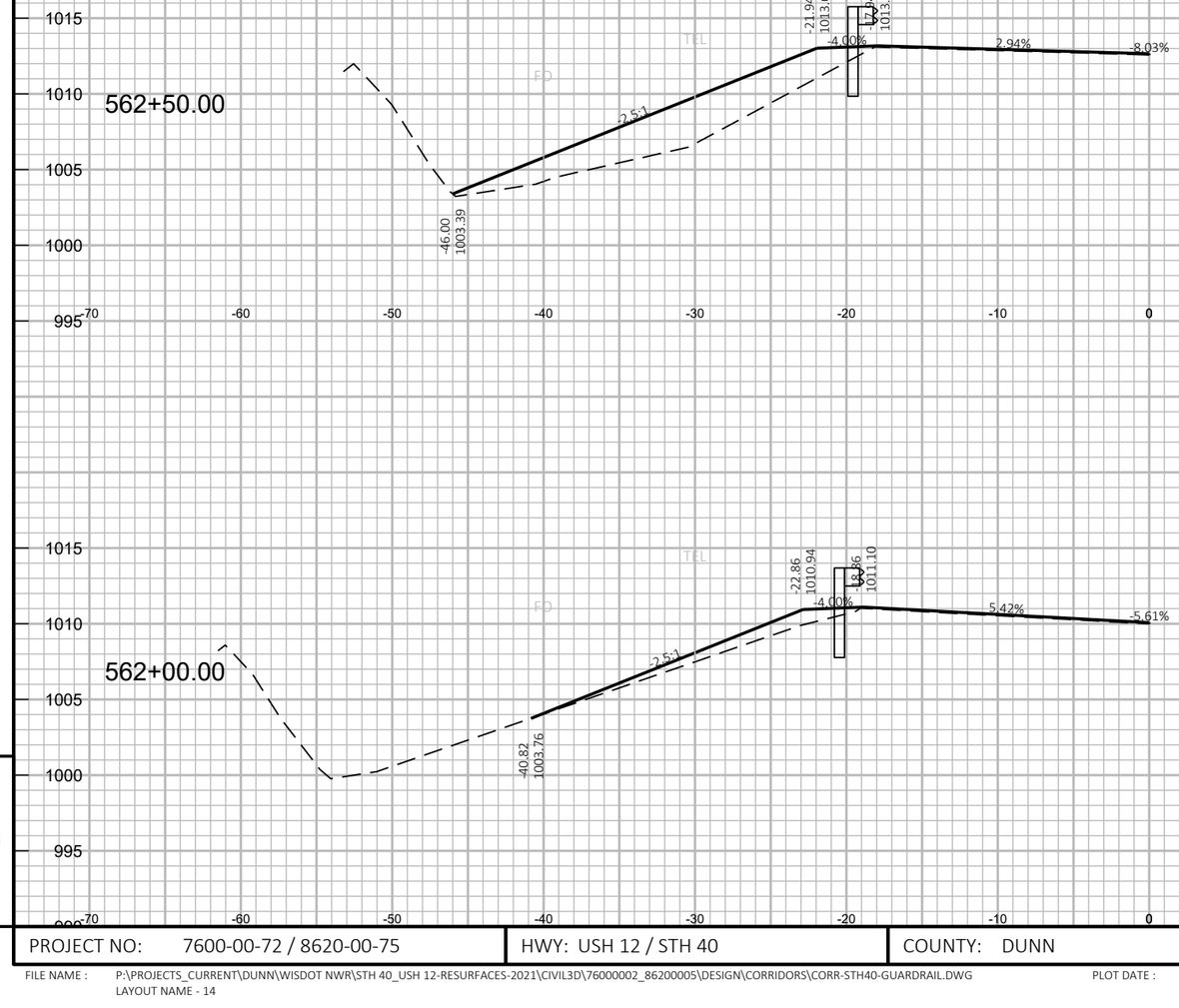

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 341 E

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LAYOUT NAME - 14

PLOT DATE : 8/1/2025 11:29 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

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POST #5

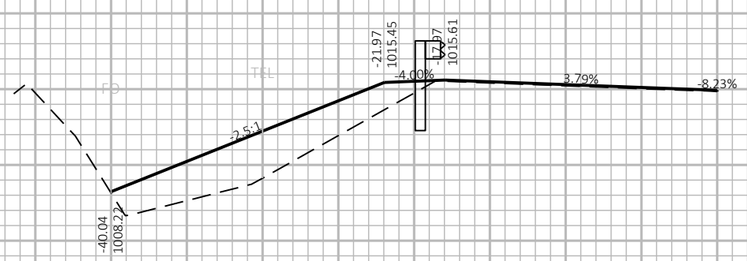
563+71.00

563+46.27

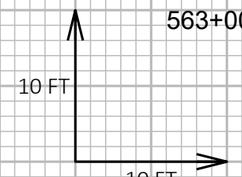
POST #9

563+46.27

563+00.00



563+00.00



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PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 342	E

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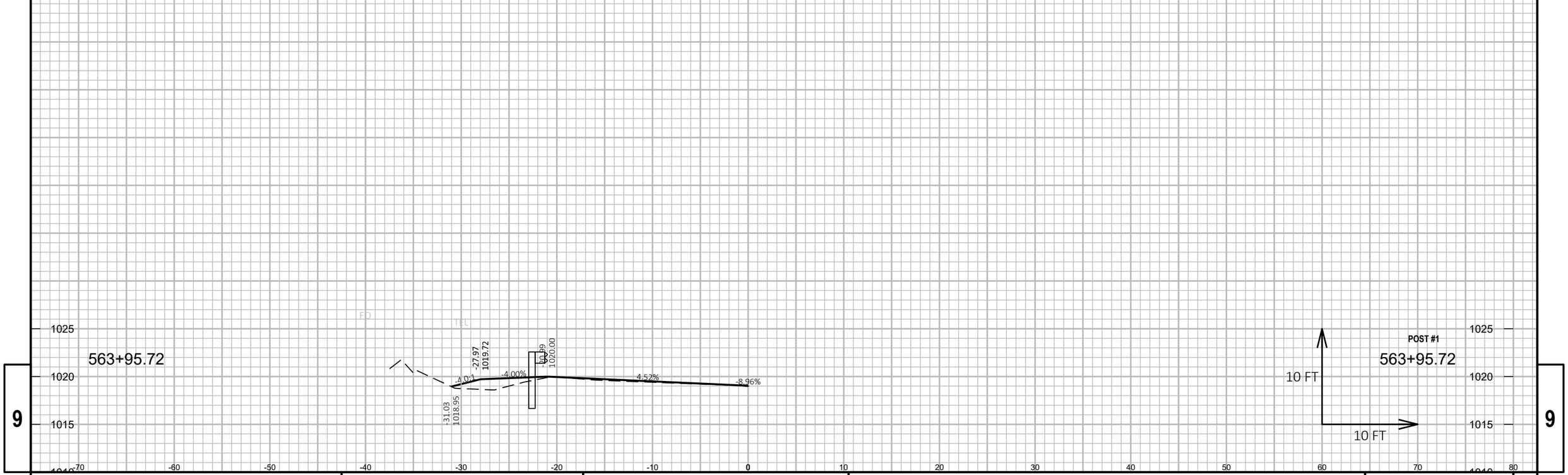
LAYOUT NAME - 15

PLOT DATE : 8/1/2025 11:29 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 343	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 16

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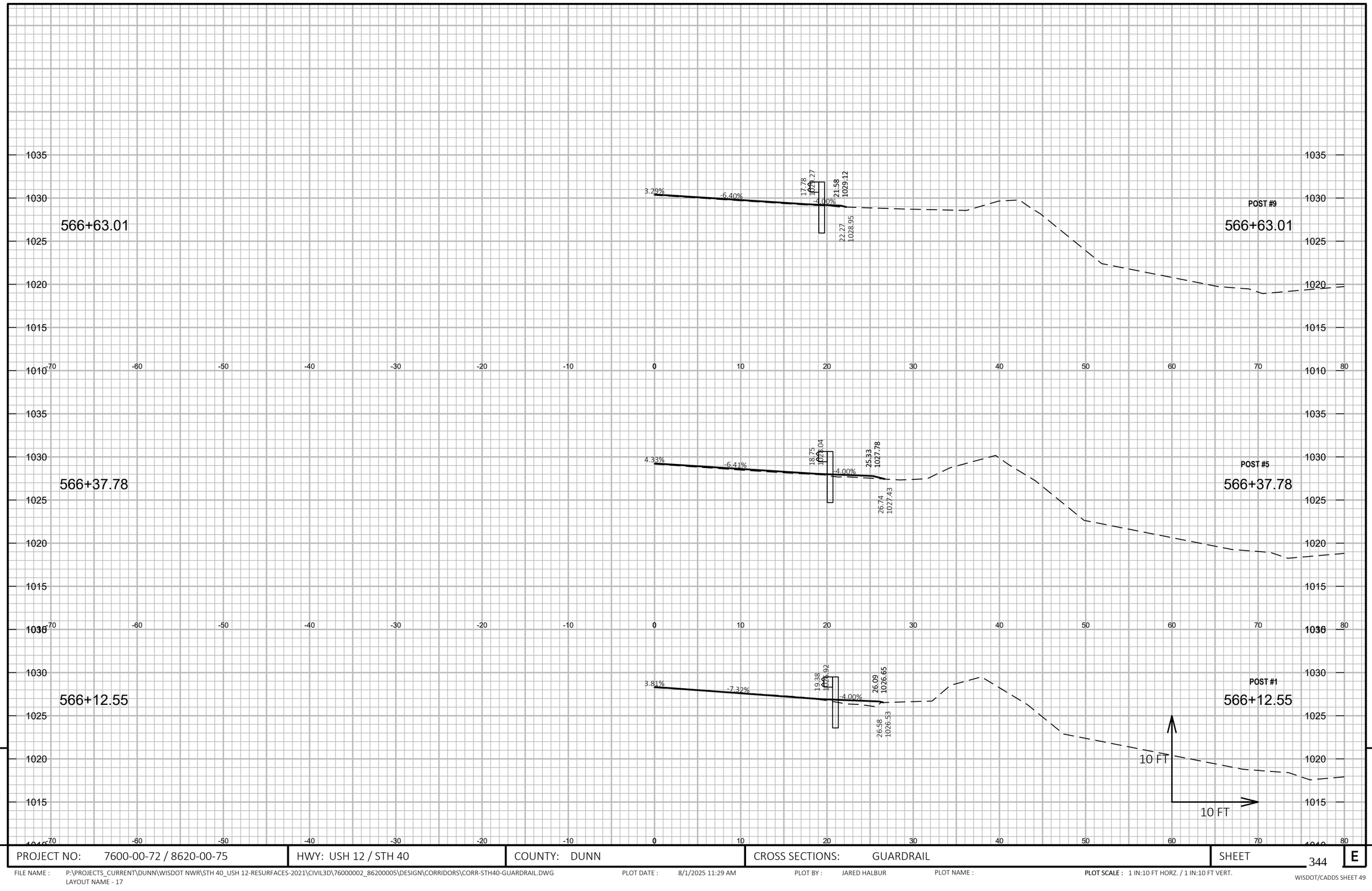

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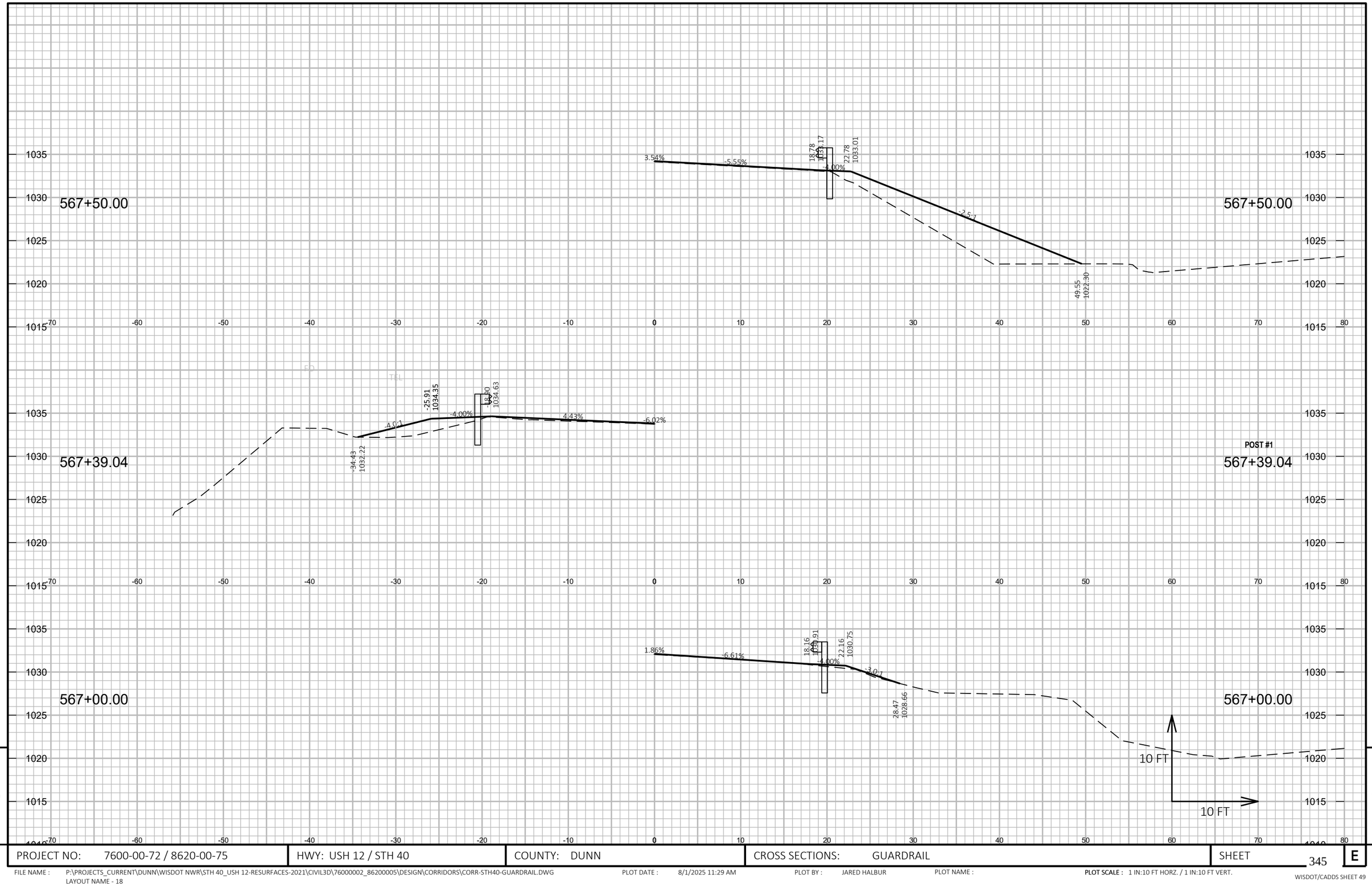
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 344	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 17

PLOT DATE : 8/1/2025 11:29 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 345 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 18

PLOT DATE : 8/1/2025 11:29 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

568+00.00

-55.66
1022.64

-20.81
1036.58

-4.00%

2.78%

-7.25%

19.21
1035.88

-4.00%

23.21
1034.72

36.88
1029.25

568+00.00

567+88.54

-51.22
1024.01

-20.93
1036.12

-4.00%

2.70%

-9.00%

POST #9

567+88.54

567+63.79

-44.55
1028.74

30.00
1033.54

-23.06
1035.28

-4.00%

3.86%

-9.71%

POST #5

567+63.79

10 FT

10 FT

9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 346	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 19

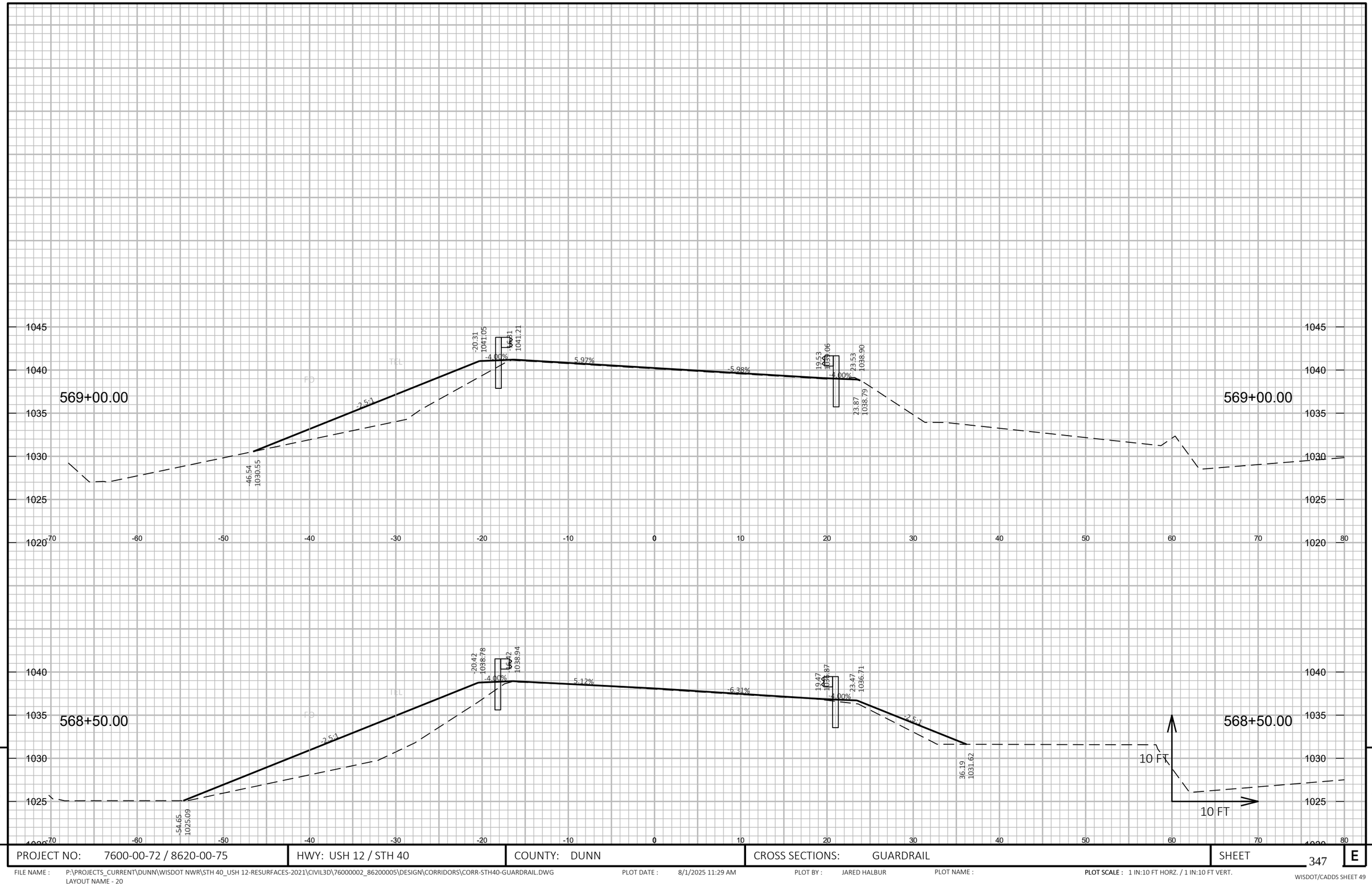
PLOT DATE : 8/1/2025 11:29 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

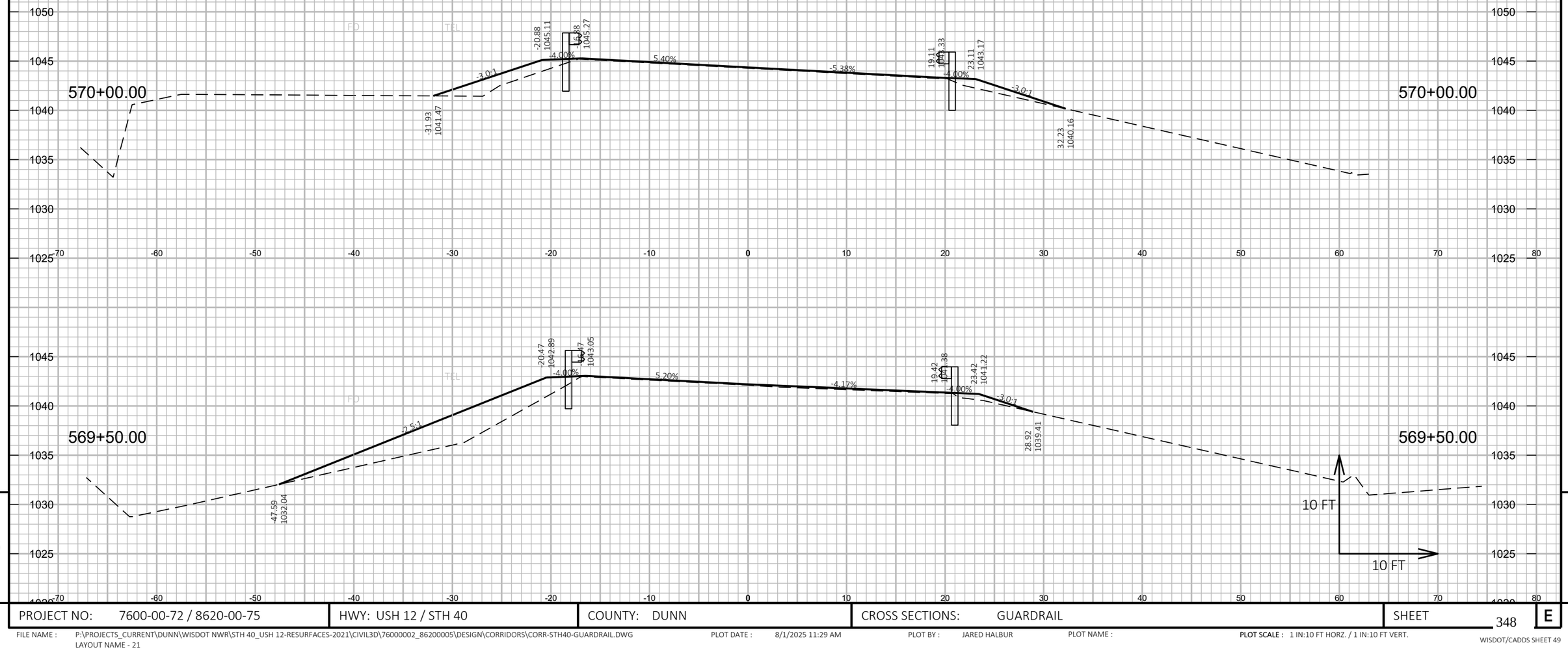
WISDOT/CADDS SHEET 49



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 347 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 20

PLOT DATE : 8/1/2025 11:29 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

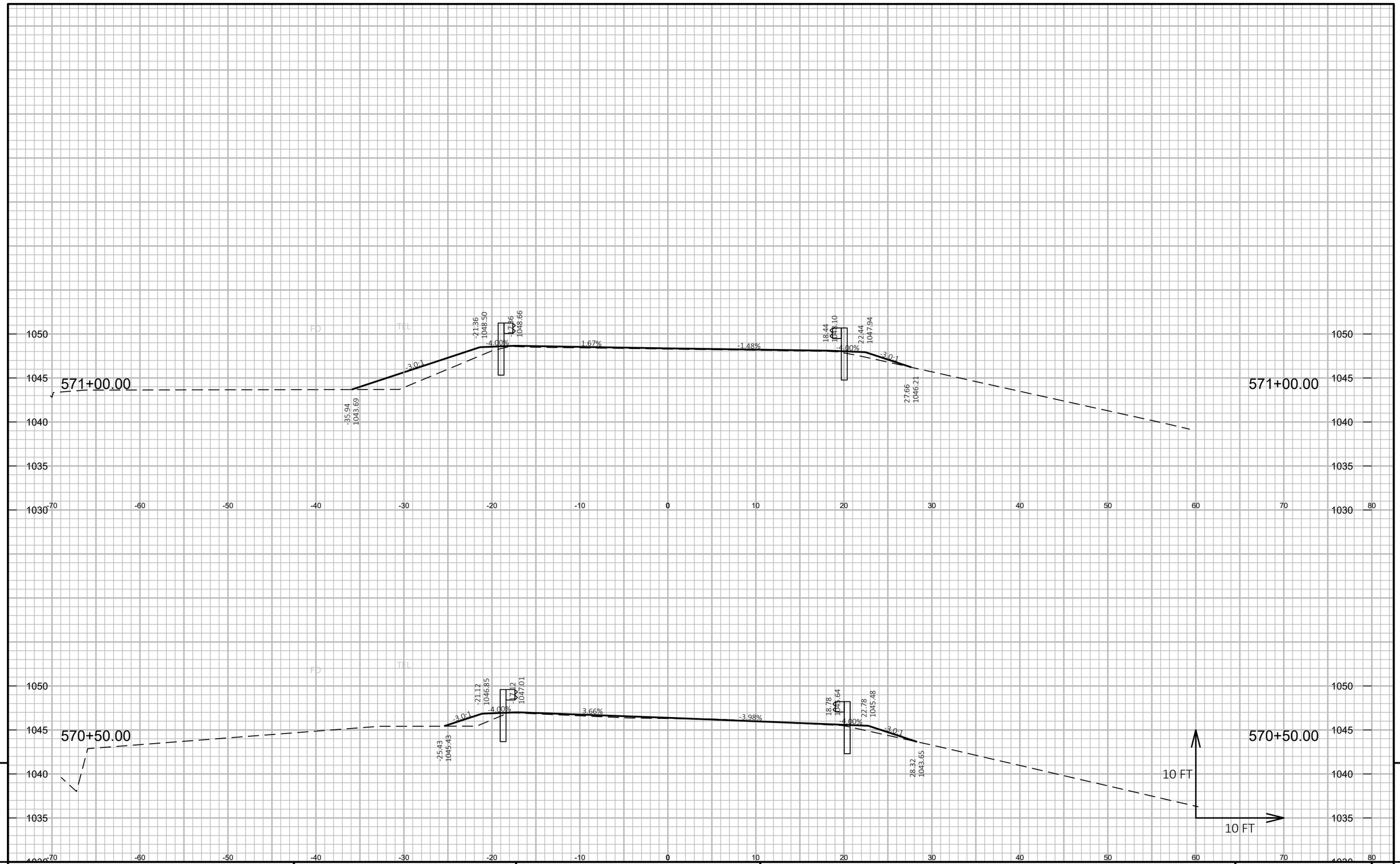


9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 348 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 21

PLOT DATE : 8/1/2025 11:29 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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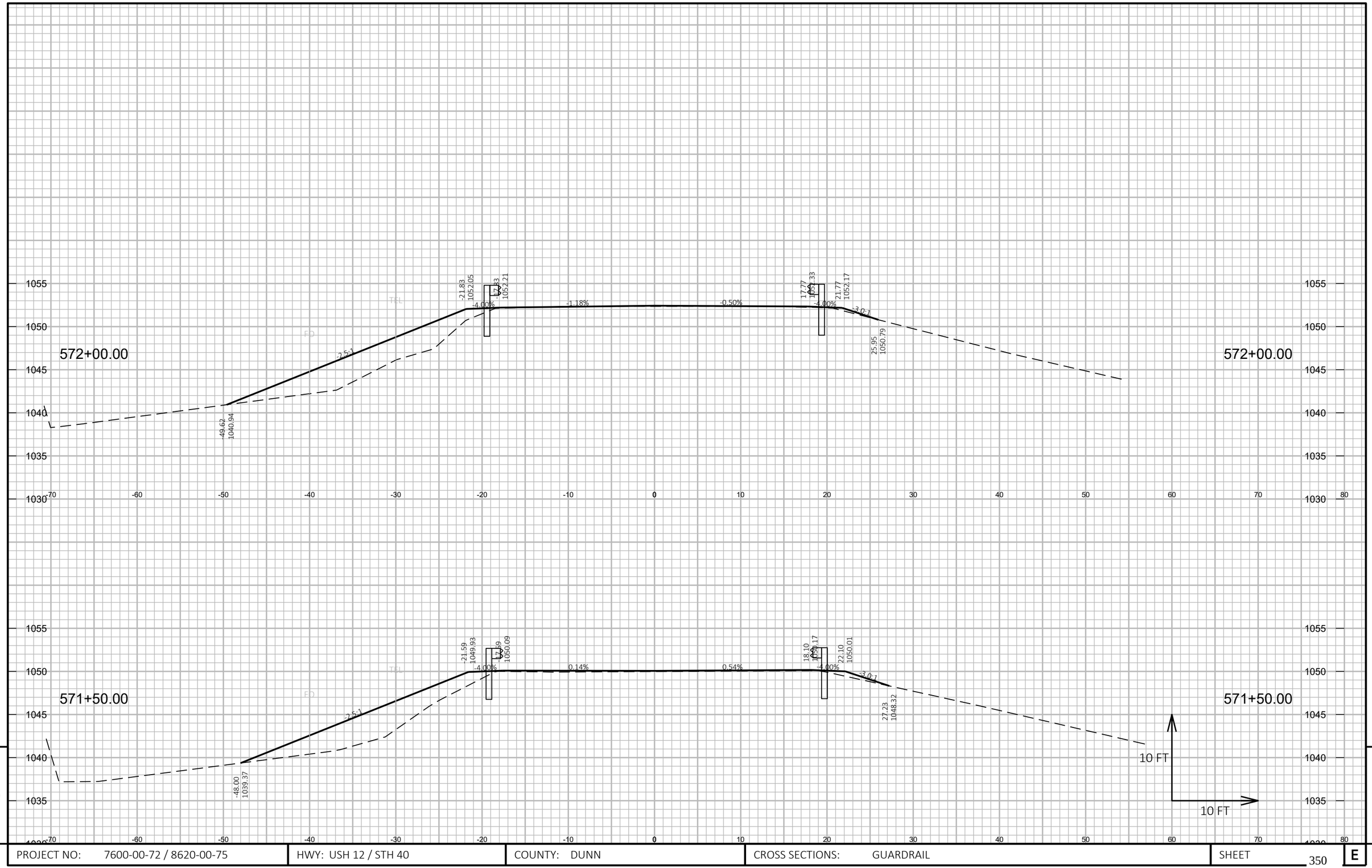
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 349	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 22

PLOT DATE : 8/1/2025 11:30 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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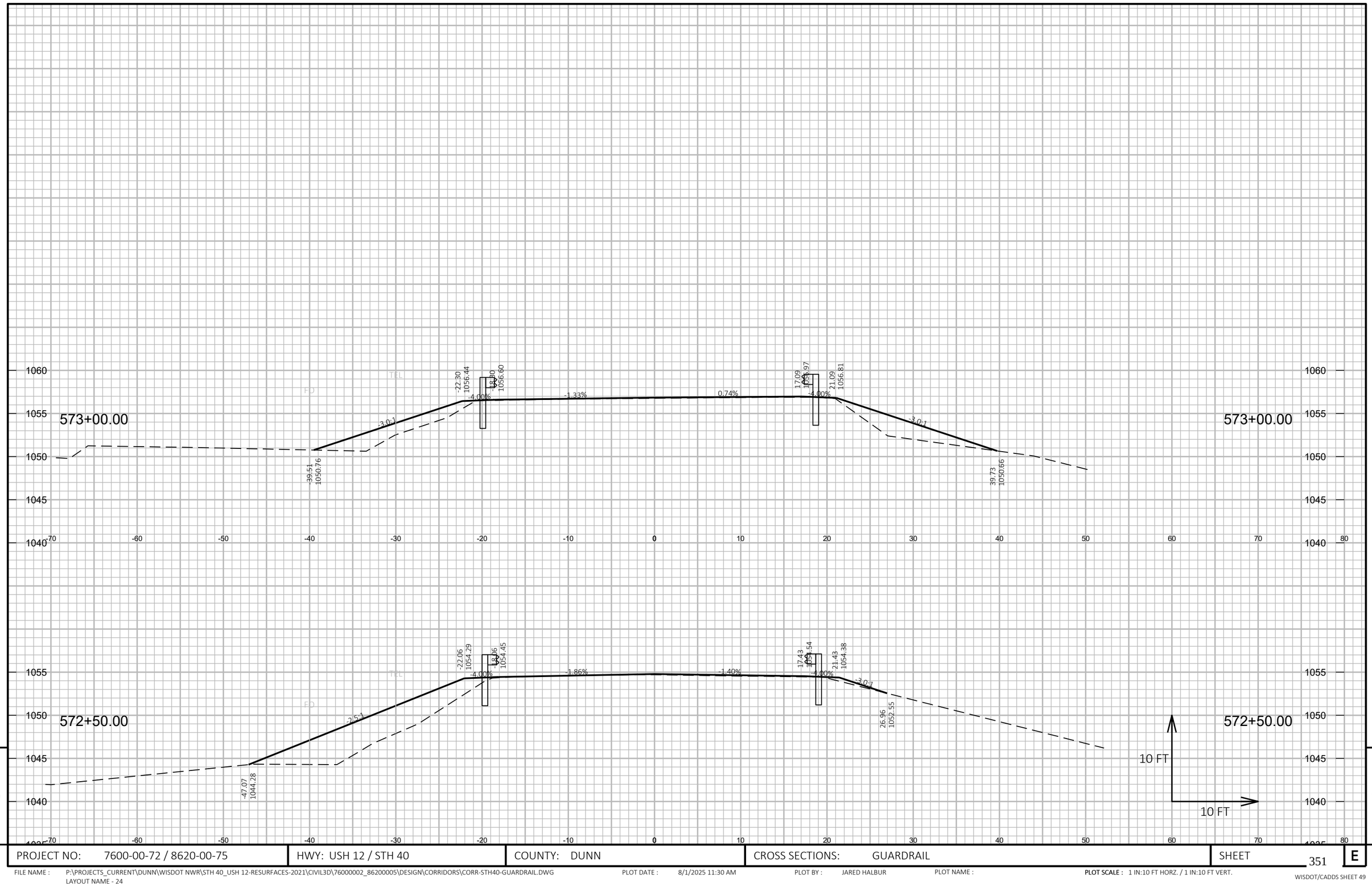
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 350	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 23

PLOT DATE : 8/1/2025 11:30 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

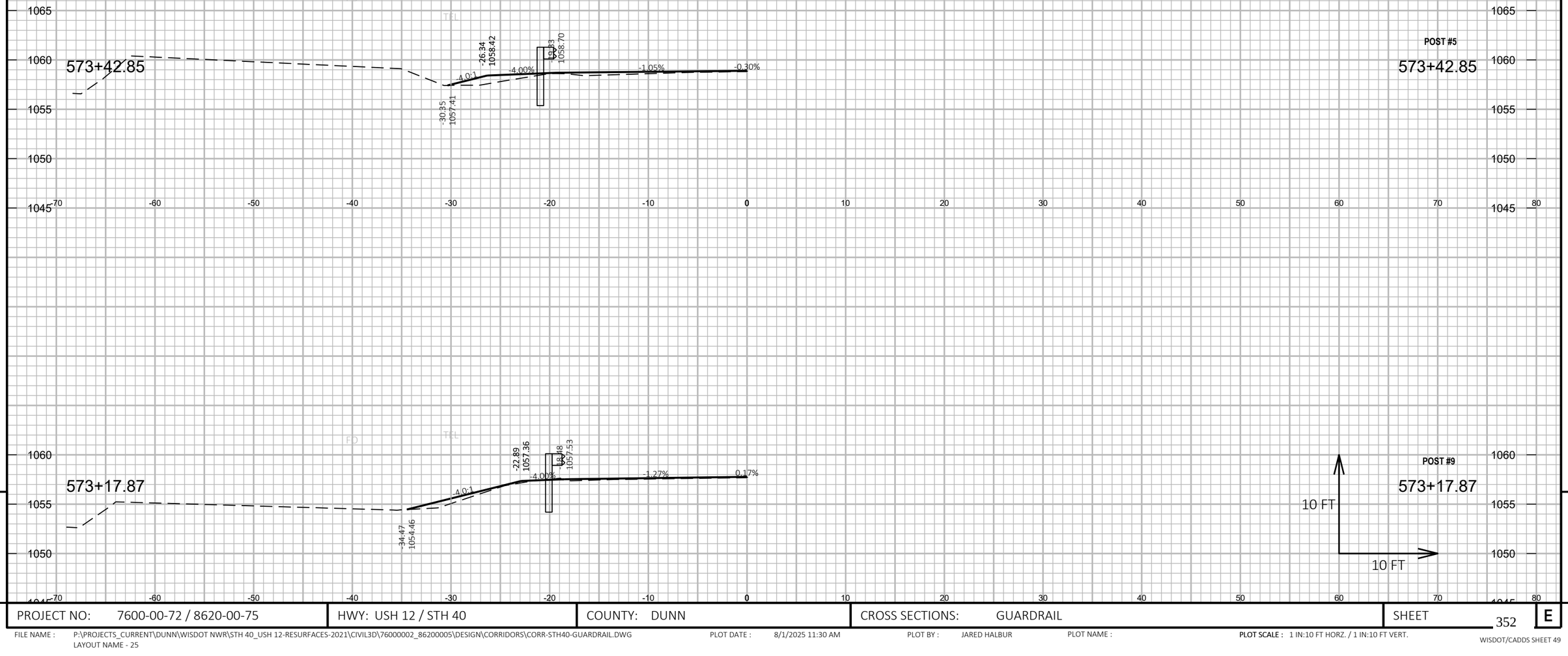


9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 351 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 24

PLOT DATE : 8/1/2025 11:30 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

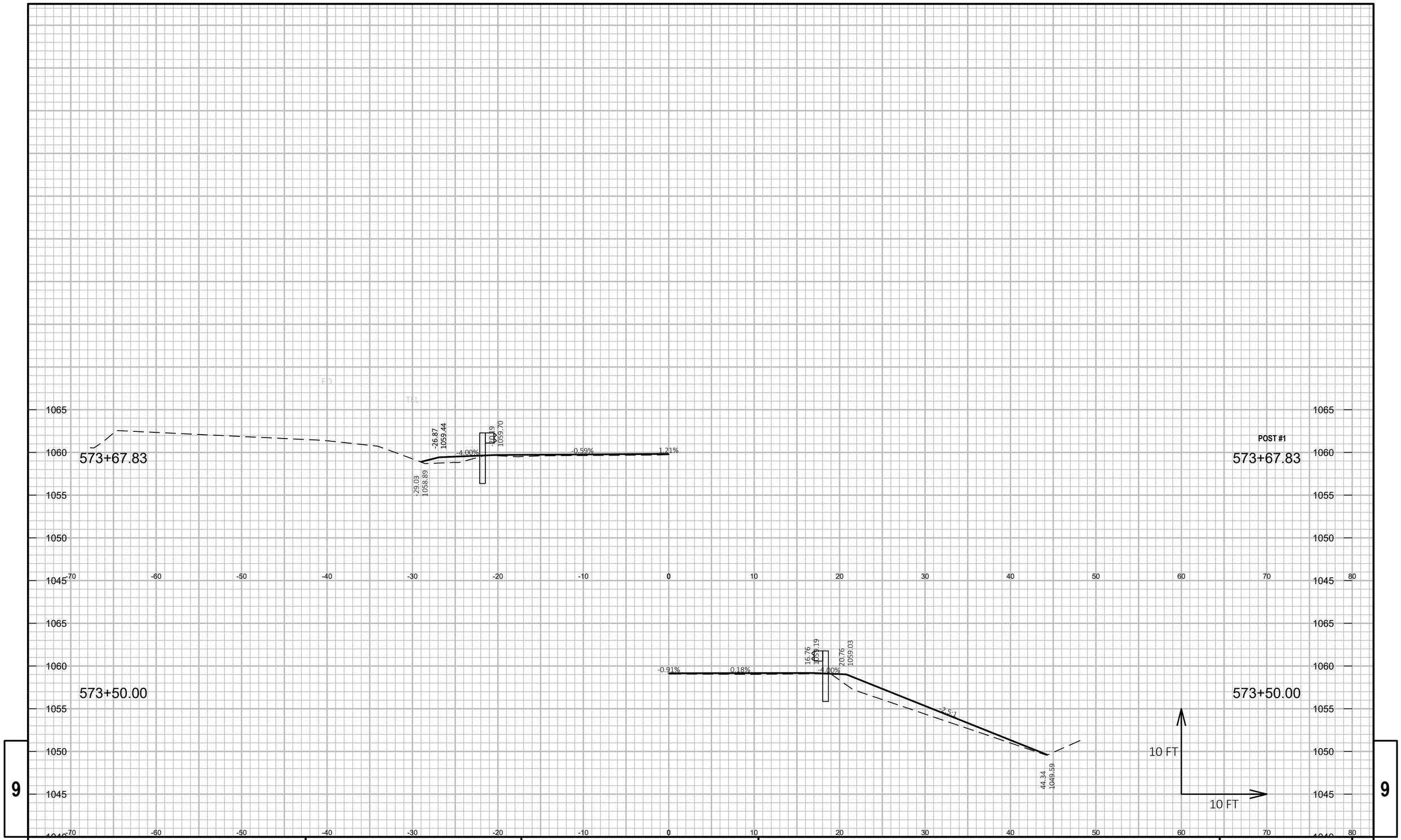


9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 352	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 25

PLOT DATE : 8/1/2025 11:30 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

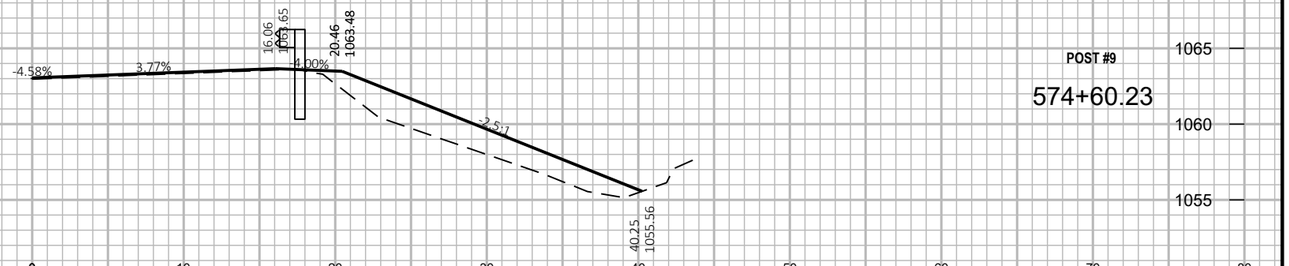
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 353	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 26

PLOT DATE : 8/1/2025 11:30 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

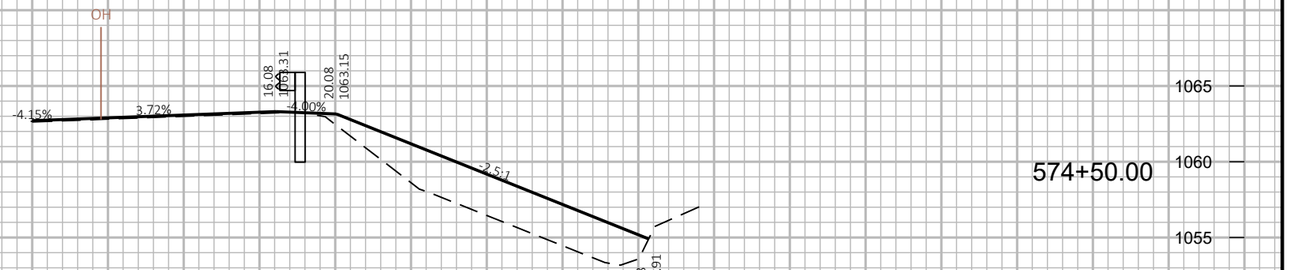
574+60.23



POST #9

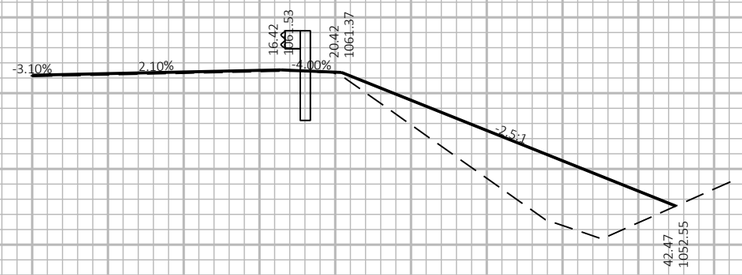
574+60.23

574+50.00



574+50.00

574+00.00



574+00.00

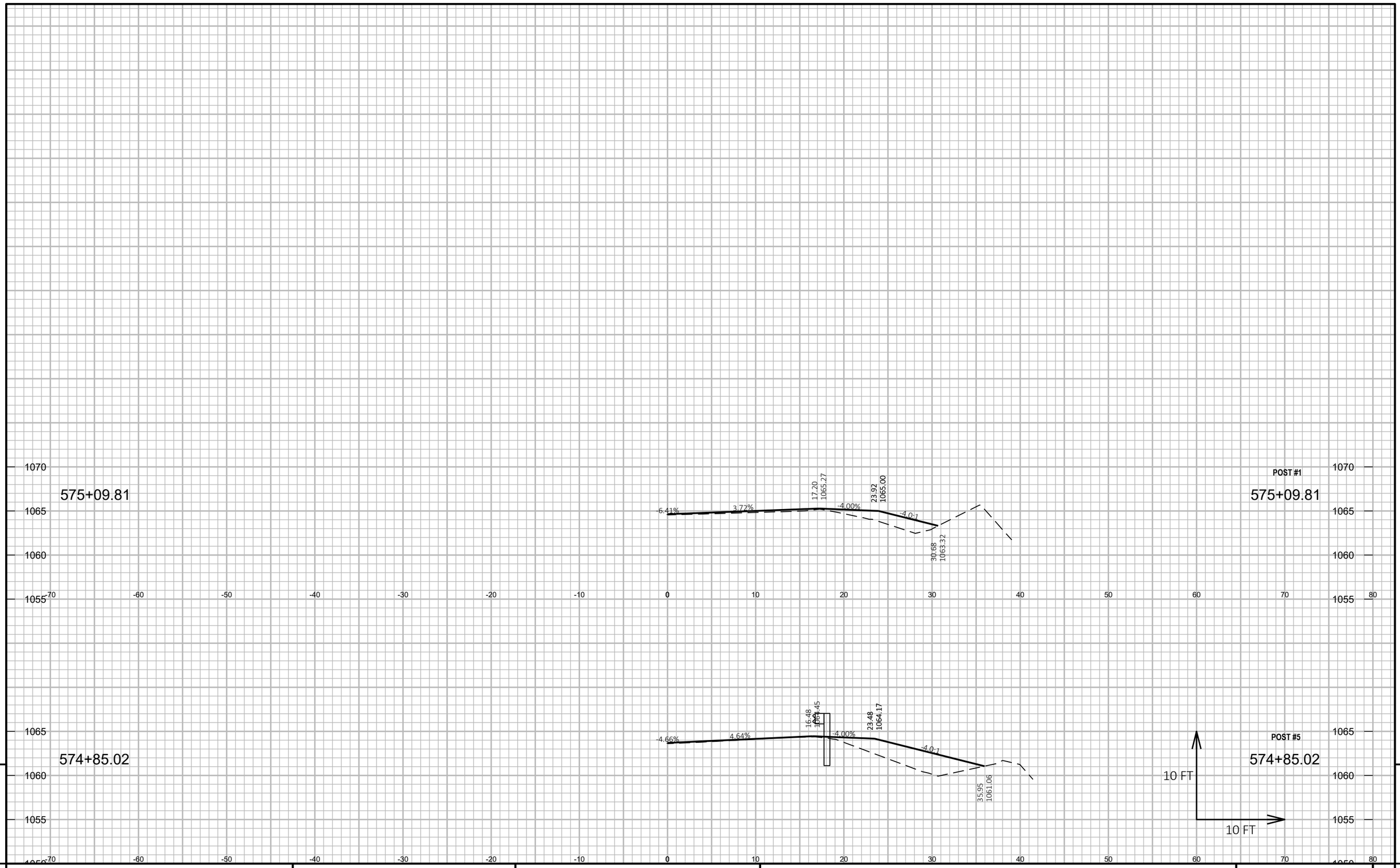
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 354	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 27

PLOT DATE : 8/1/2025 11:30 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 355	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 28

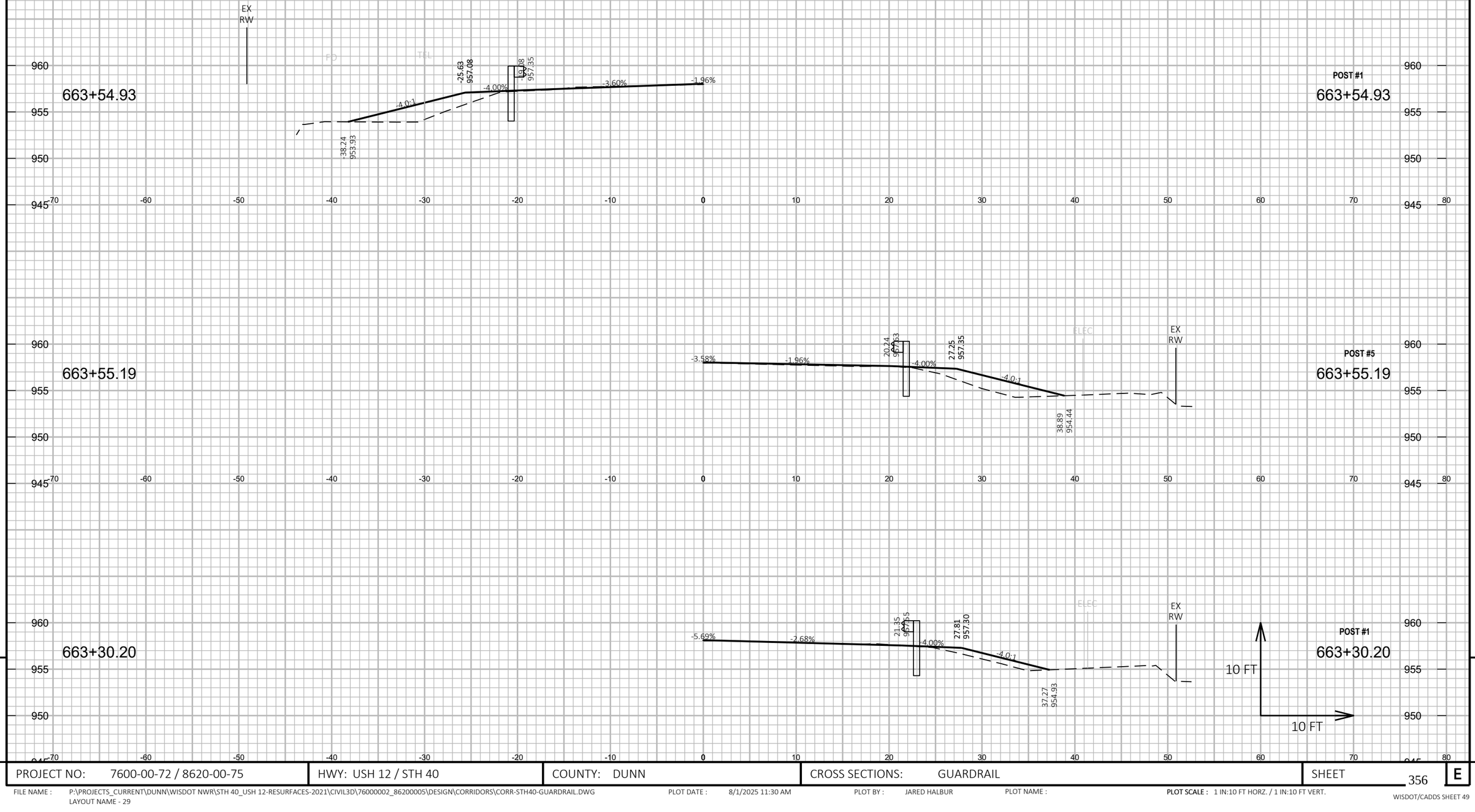
PLOT DATE : 8/1/2025 11:30 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 356	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 29

PLOT DATE : 8/1/2025 11:30 AM

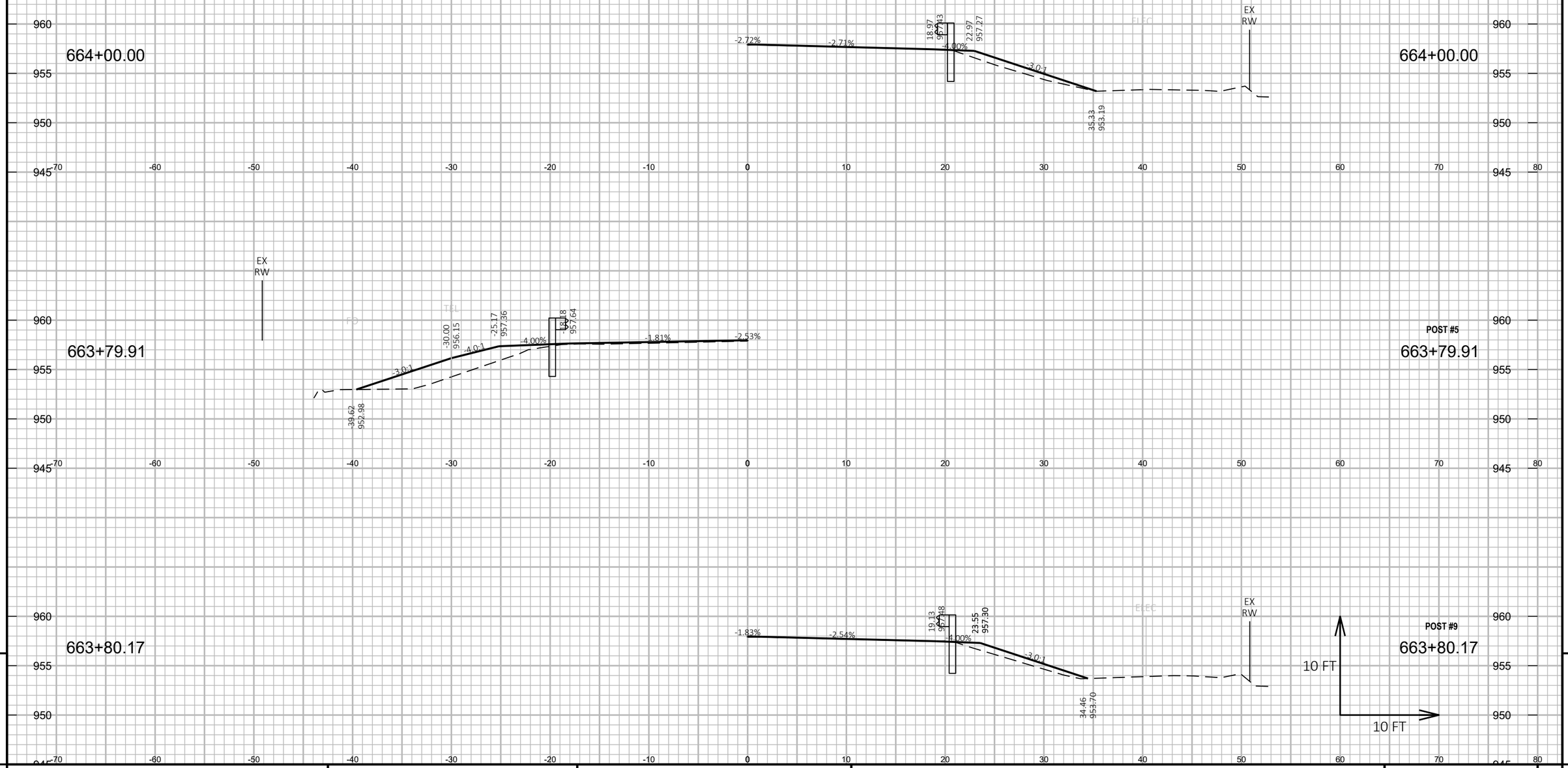
PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49

664+00.00



9

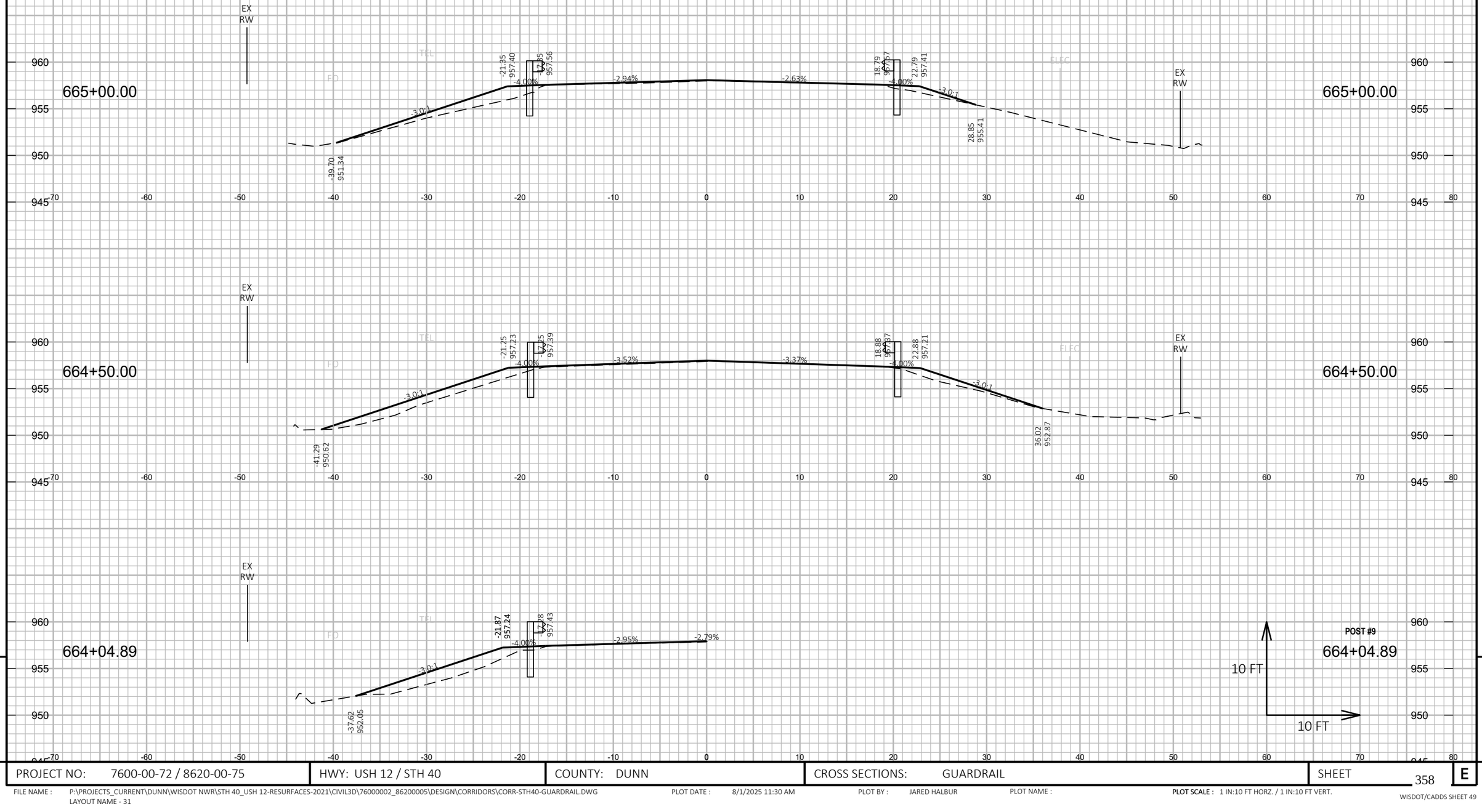
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 357	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 30

PLOT DATE : 8/1/2025 11:30 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

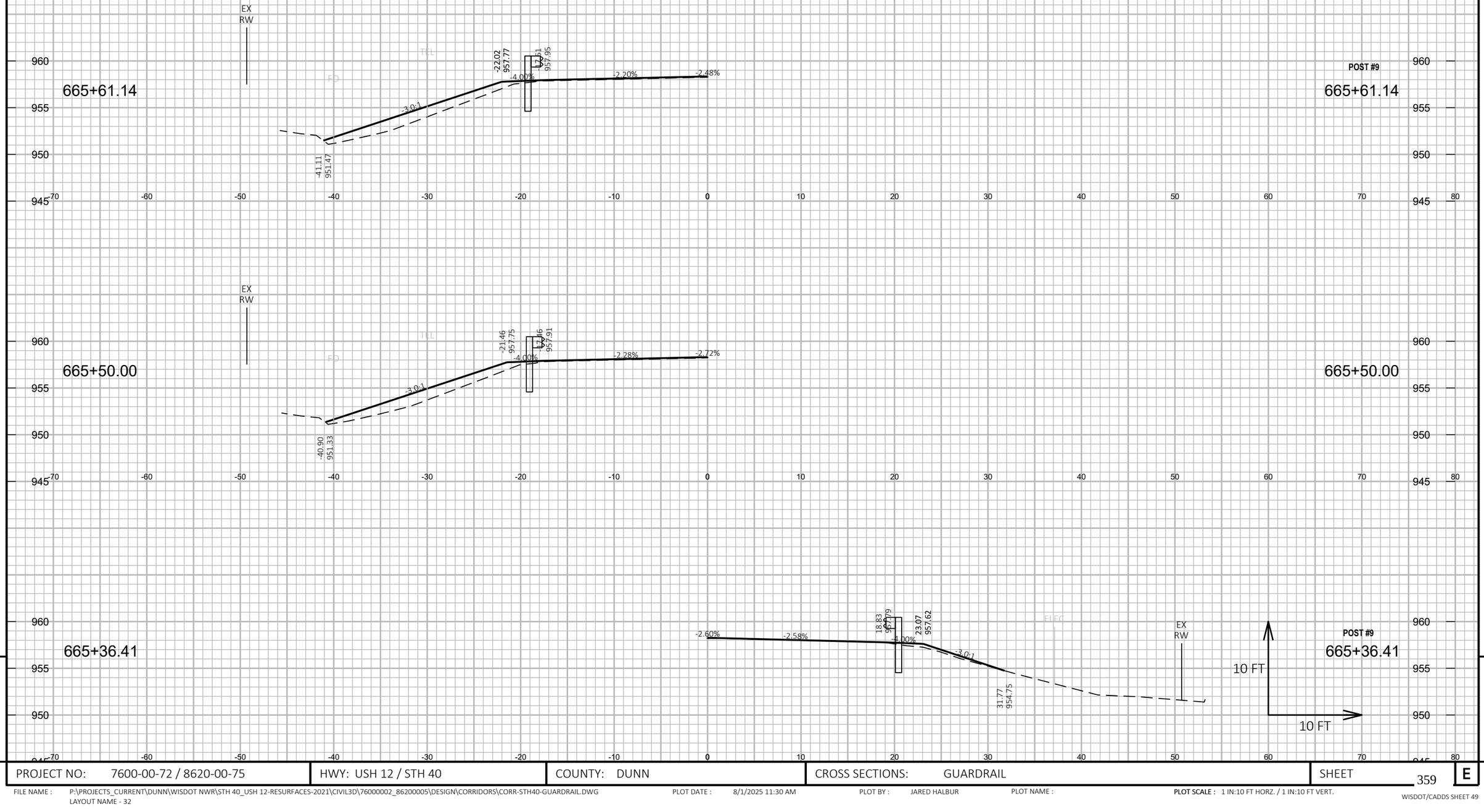


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 358	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 31

PLOT DATE : 8/1/2025 11:30 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

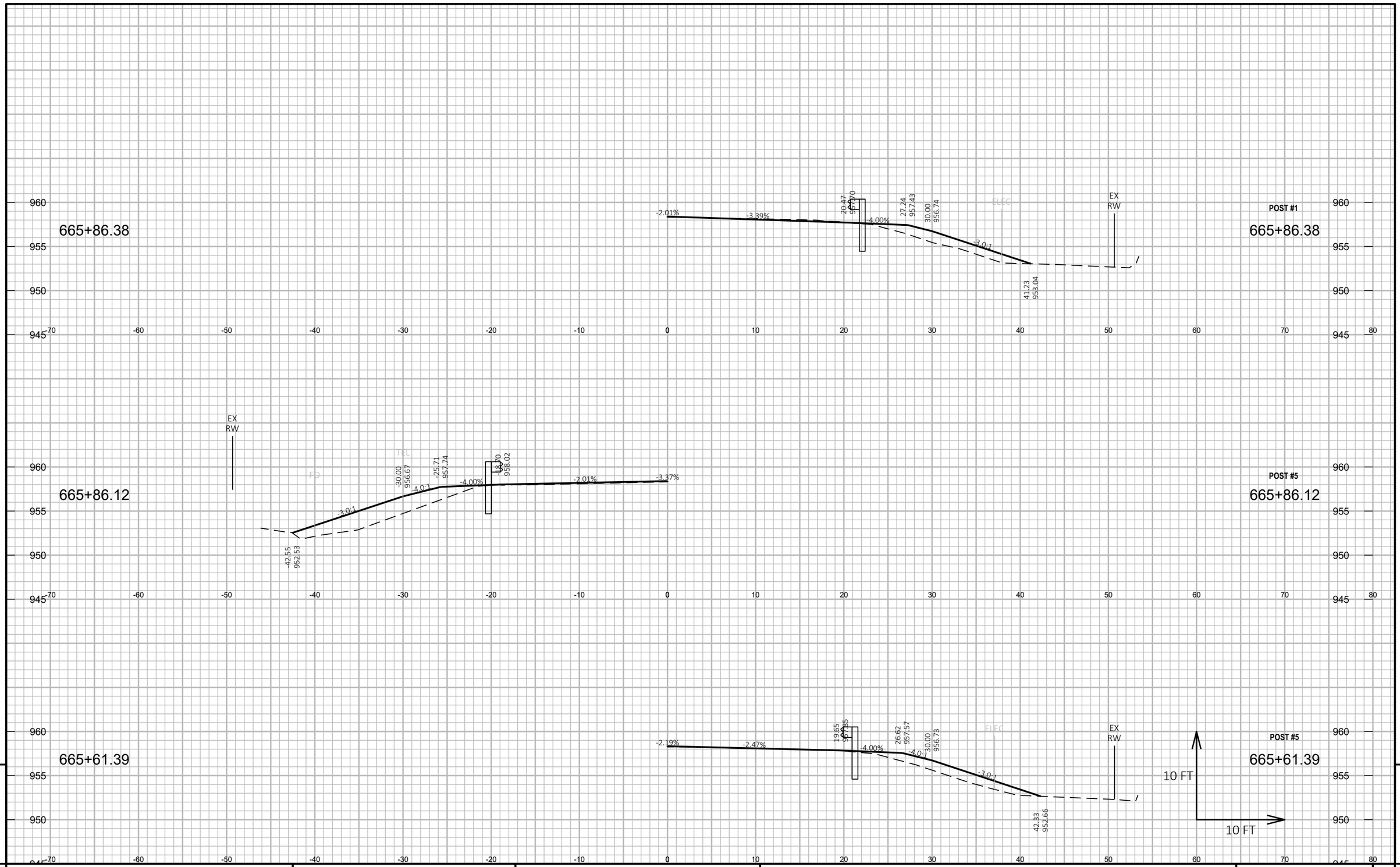


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 359	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 32

PLOT DATE : 8/1/2025 11:30 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 360 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 33

PLOT DATE : 8/1/2025 11:31 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

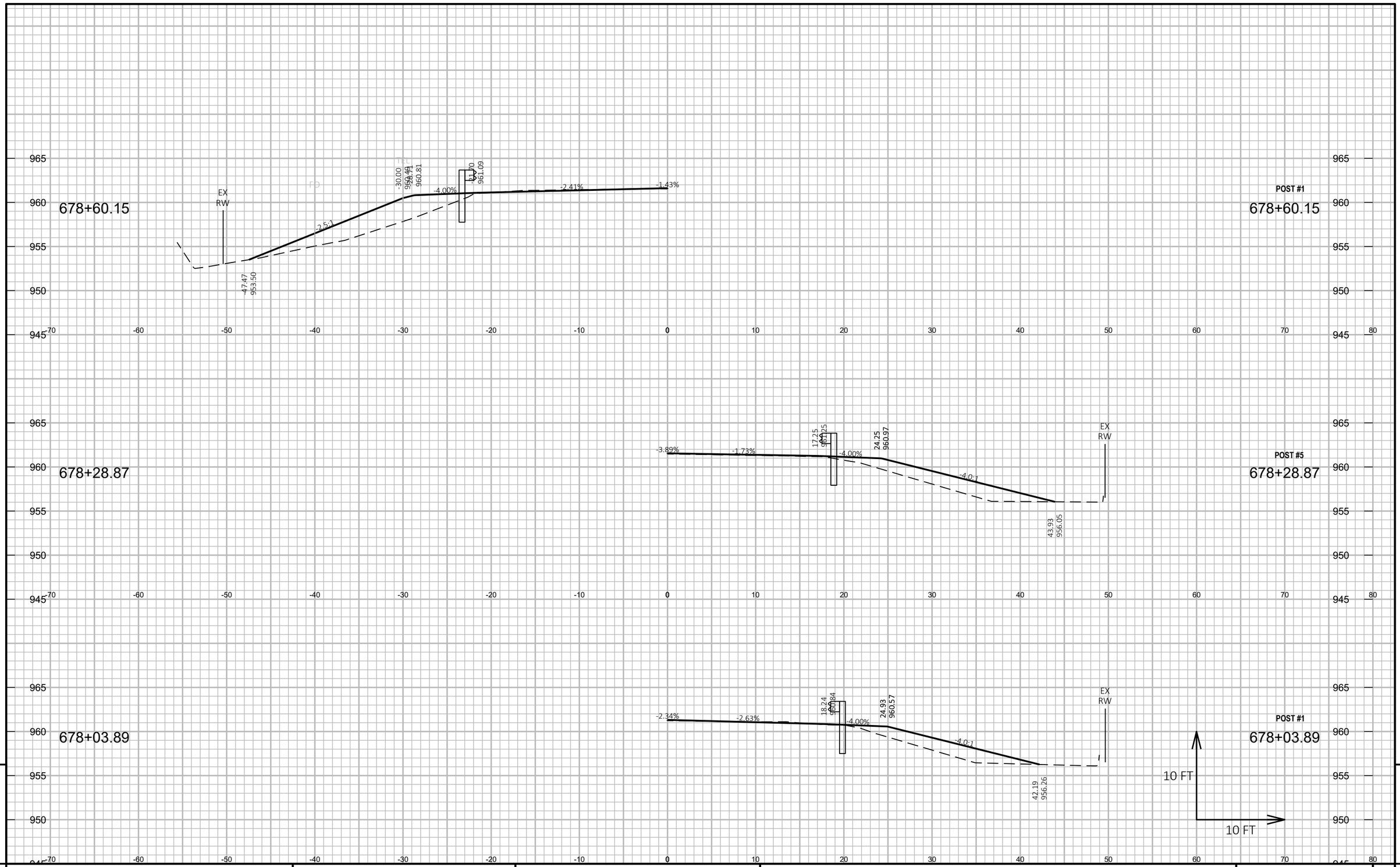
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 361	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 34

PLOT DATE : 8/1/2025 11:31 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

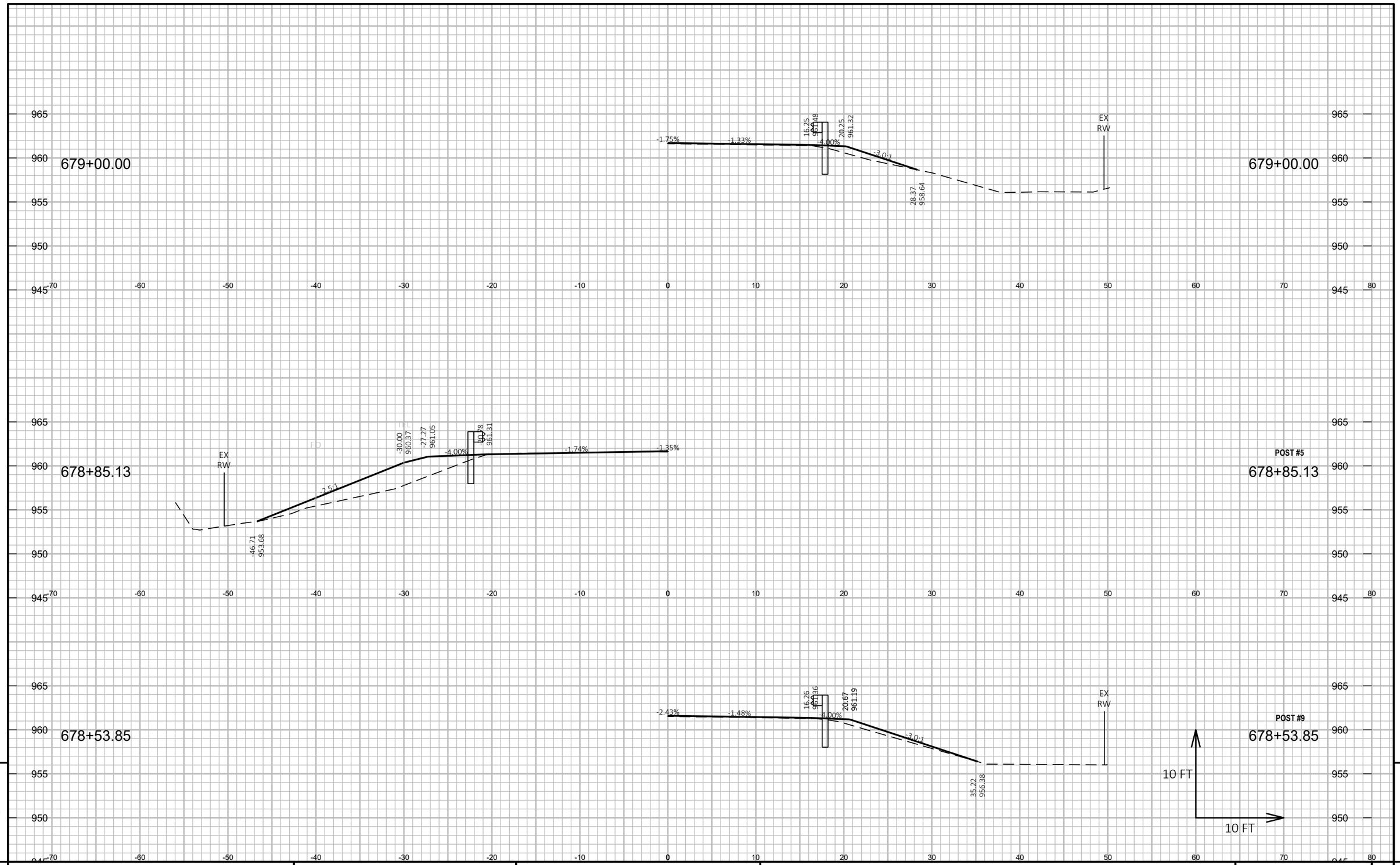
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 362	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 35

PLOT DATE : 8/1/2025 11:31 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

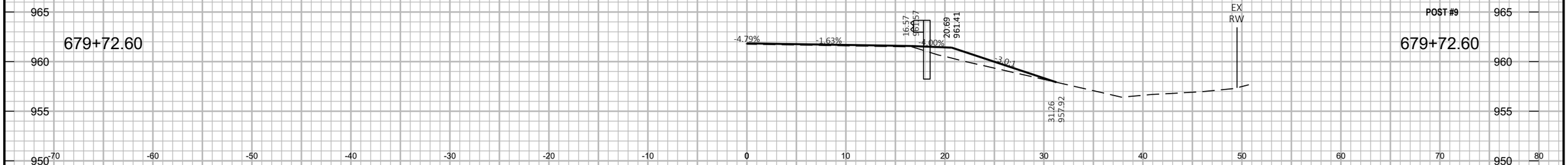
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 363	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 36

PLOT DATE : 8/1/2025 11:31 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

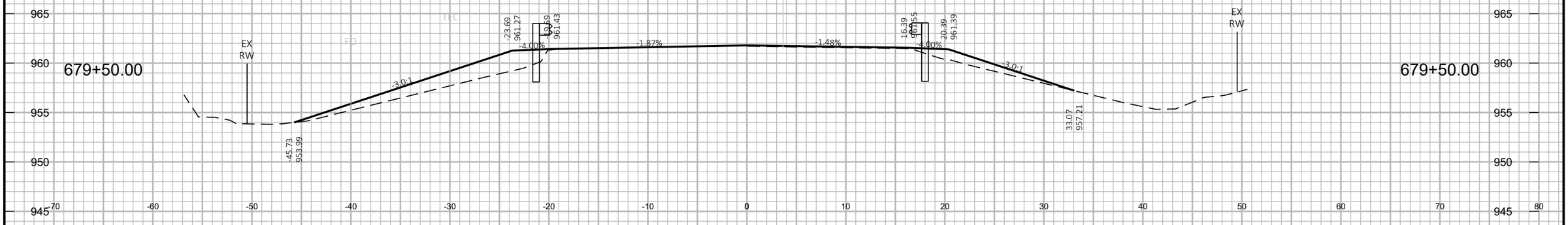
679+72.60



POST #9

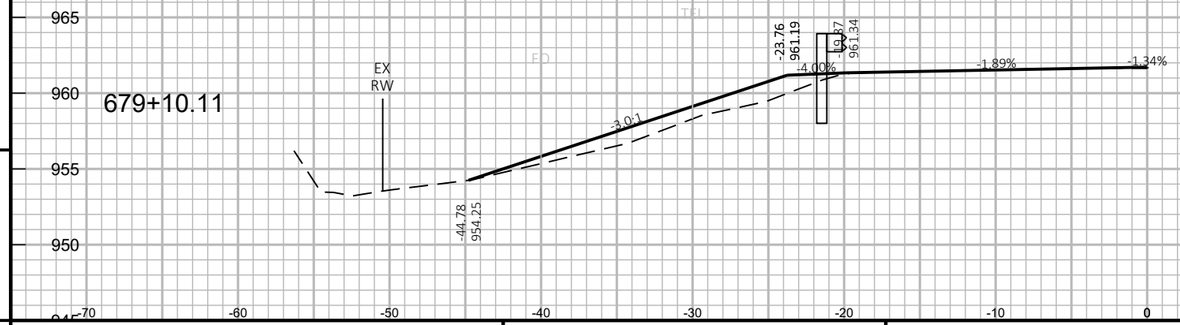
679+72.60

679+50.00



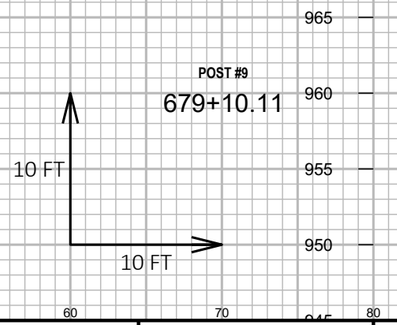
679+50.00

679+10.11



POST #9

679+10.11



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 364	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 37

PLOT DATE : 8/1/2025 11:31 AM

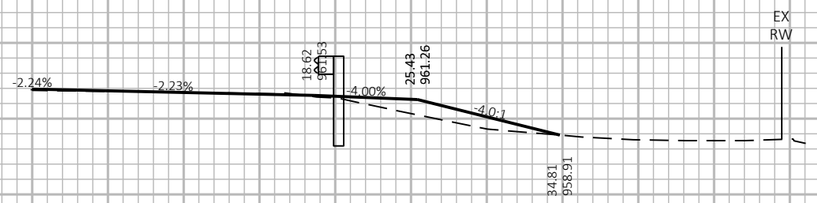
PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49

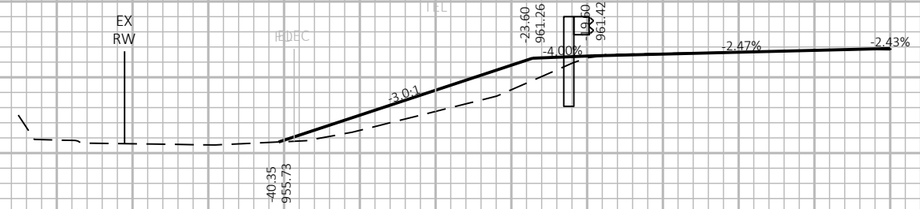
680+22.56



POST #1

680+22.56

680+00.00

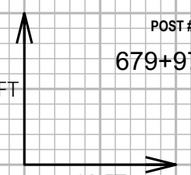


680+00.00

679+97.58

POST #5

679+97.58



9

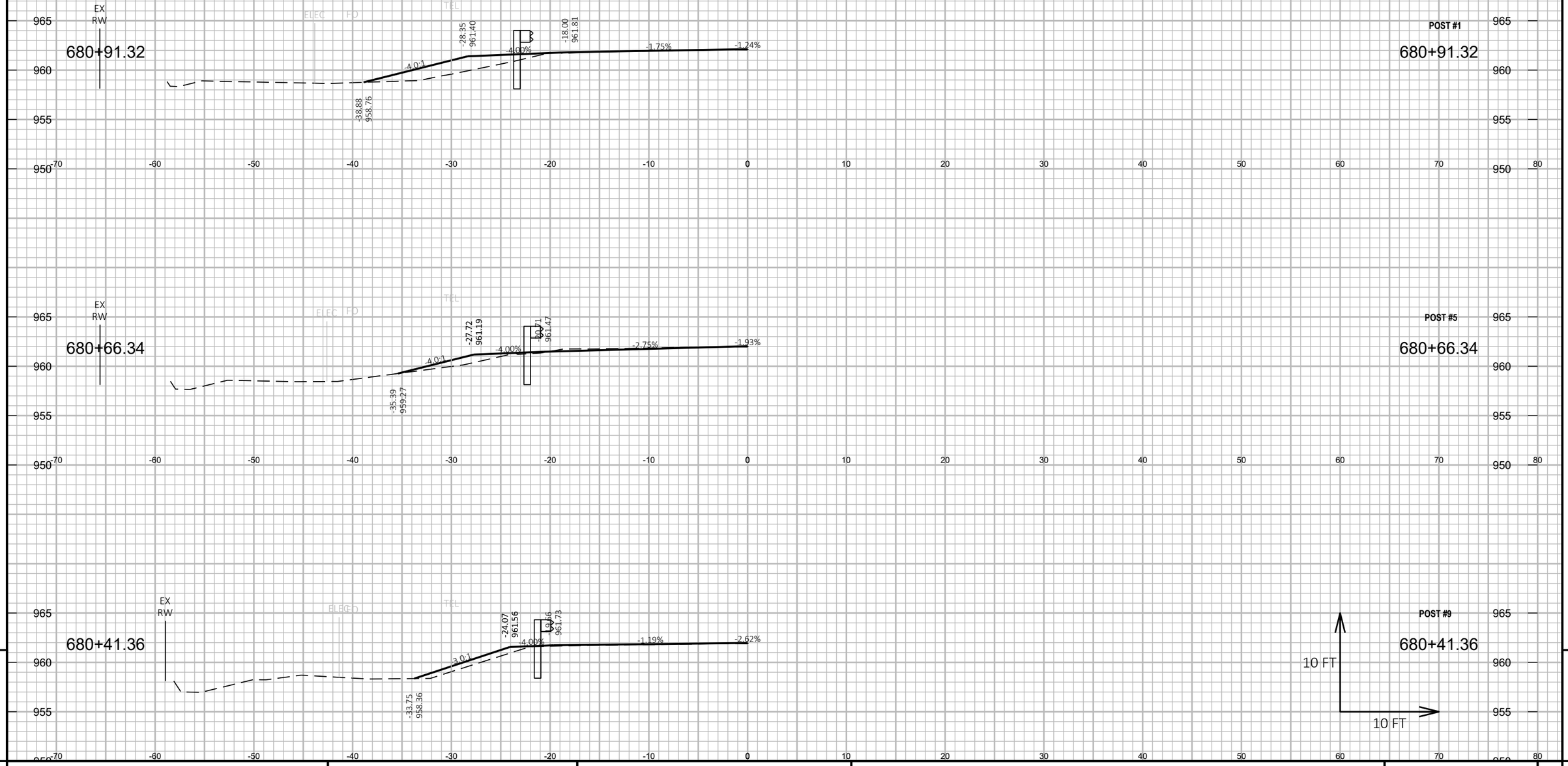
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 365	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 38

PLOT DATE : 8/1/2025 11:31 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

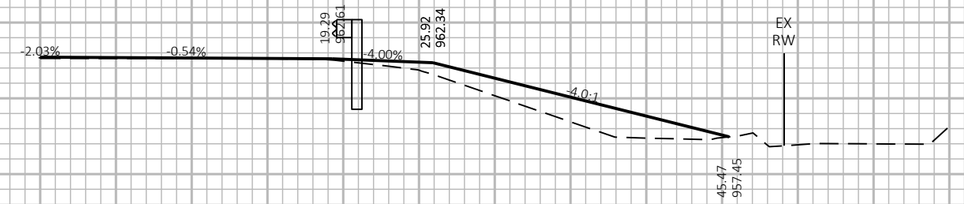
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 366	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 39

PLOT DATE : 8/1/2025 11:31 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

684+50.00



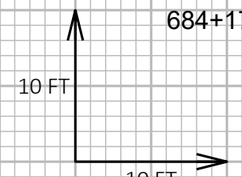
POST #1
684+50.00

684+42.00

POST #5
684+42.00

684+17.02

POST #1
684+17.02

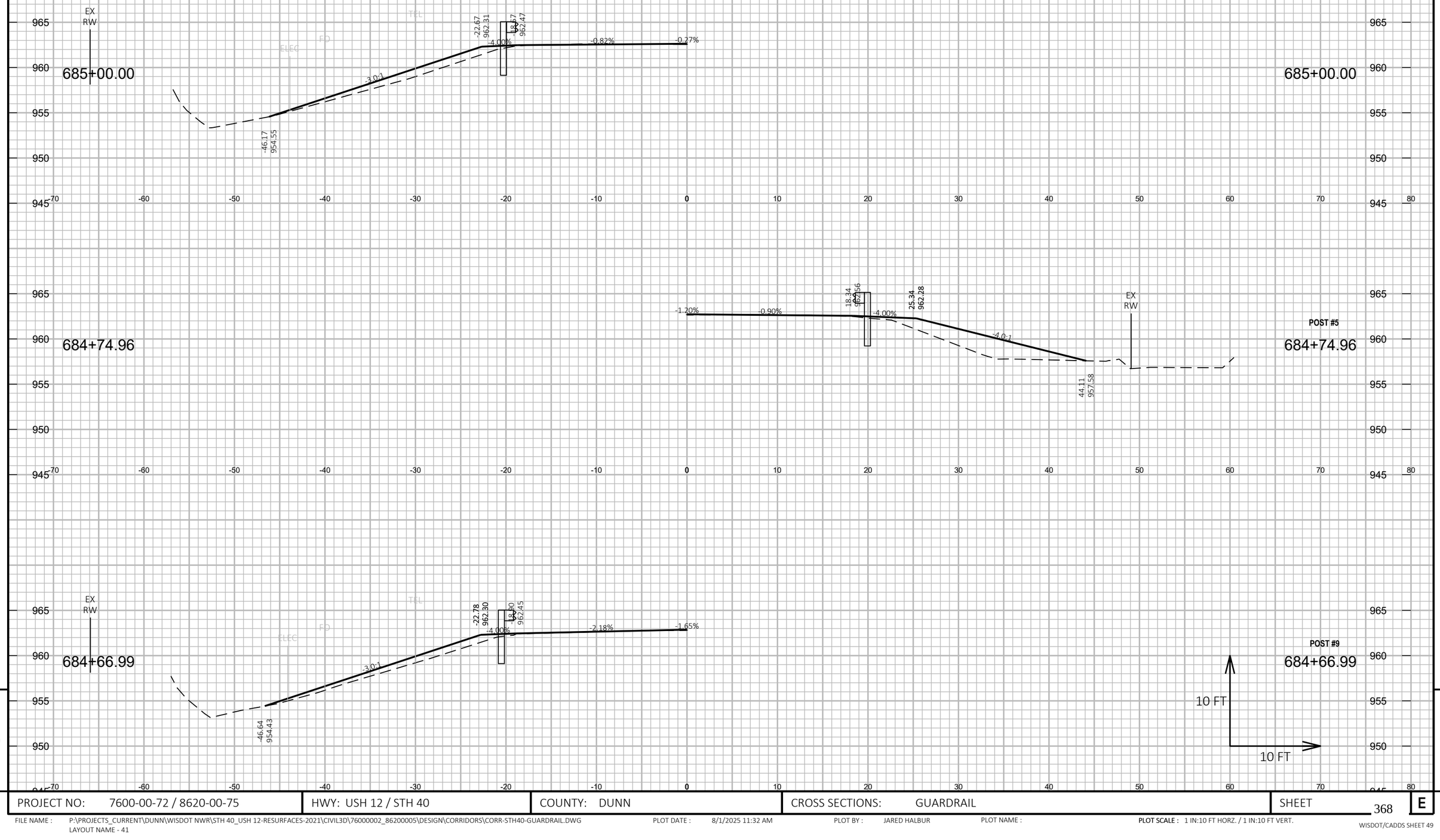


9 9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 367	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 40

PLOT DATE : 8/1/2025 11:31 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



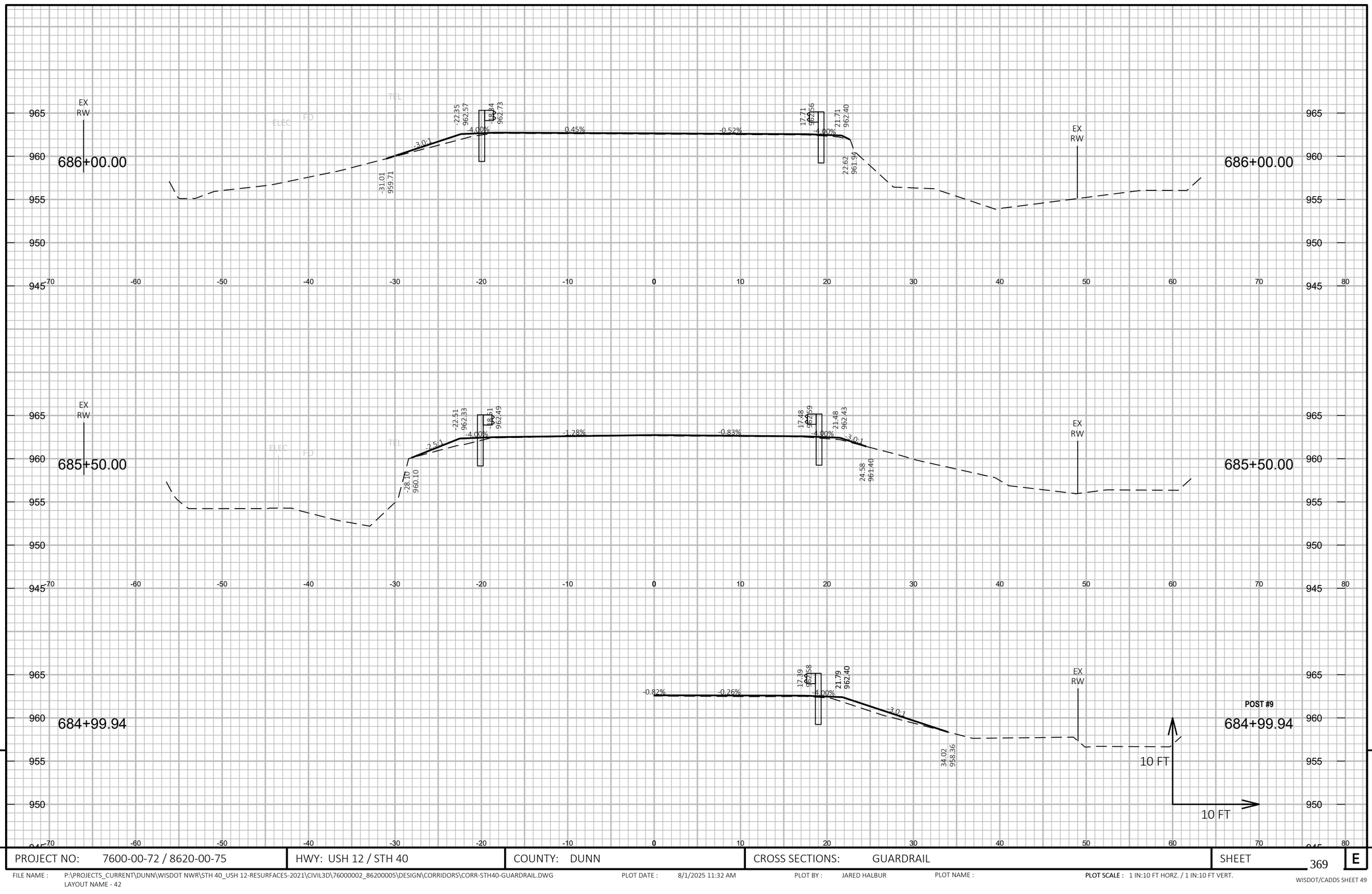
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 368	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 41

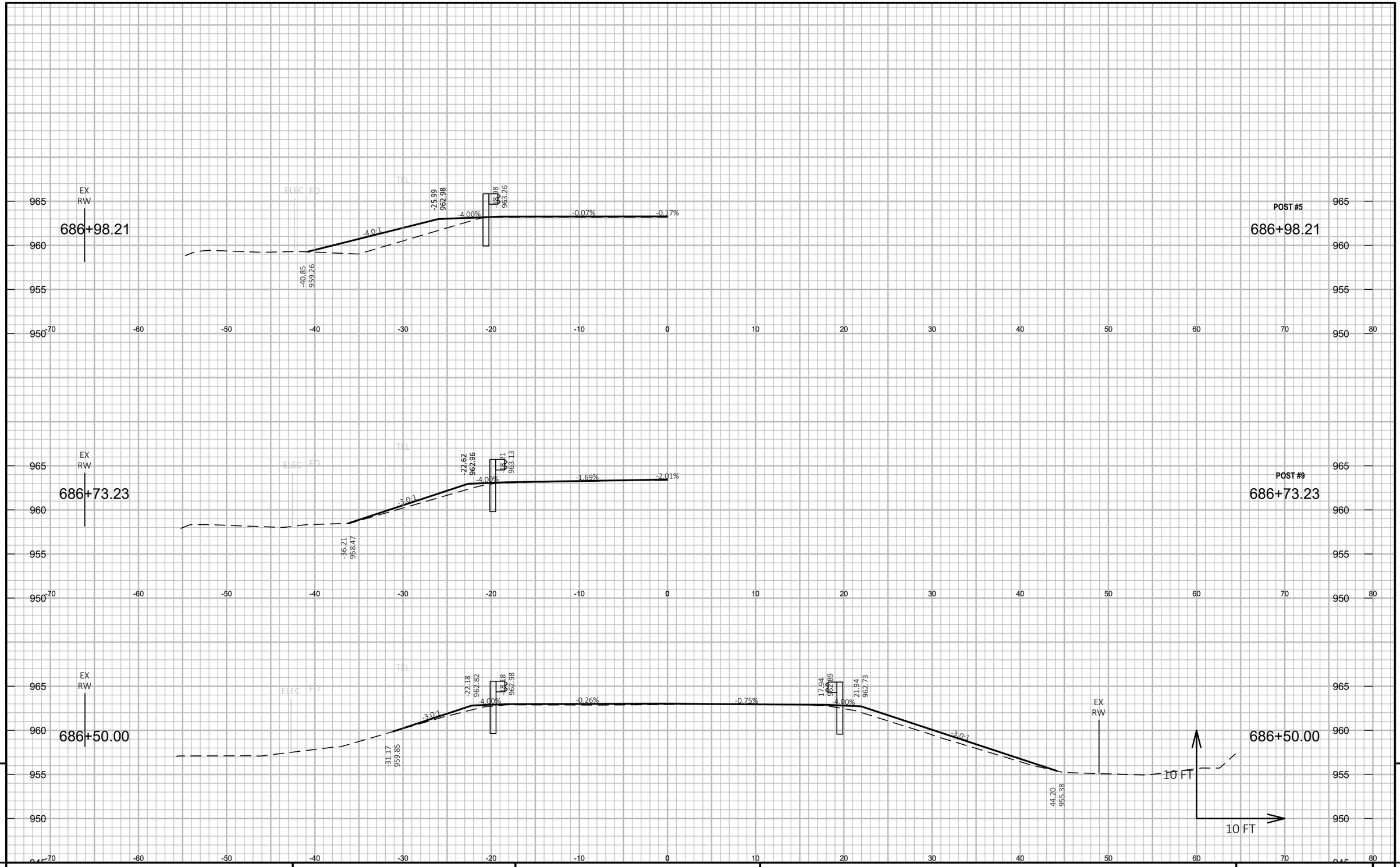
PLOT DATE : 8/1/2025 11:32 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 369 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 42

PLOT DATE : 8/1/2025 11:32 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



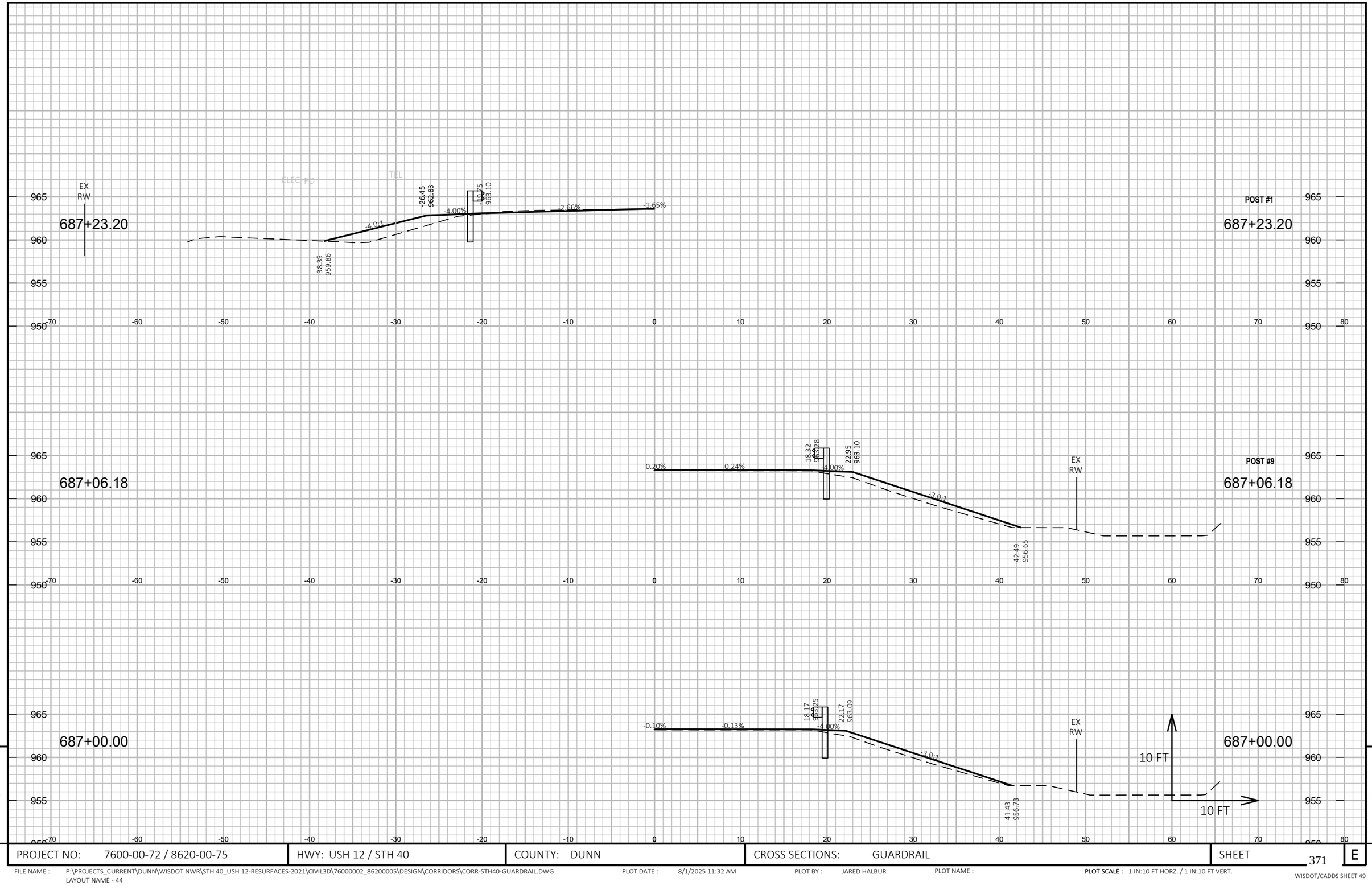
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 370	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 43

PLOT DATE : 8/1/2025 11:32 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 371	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 44

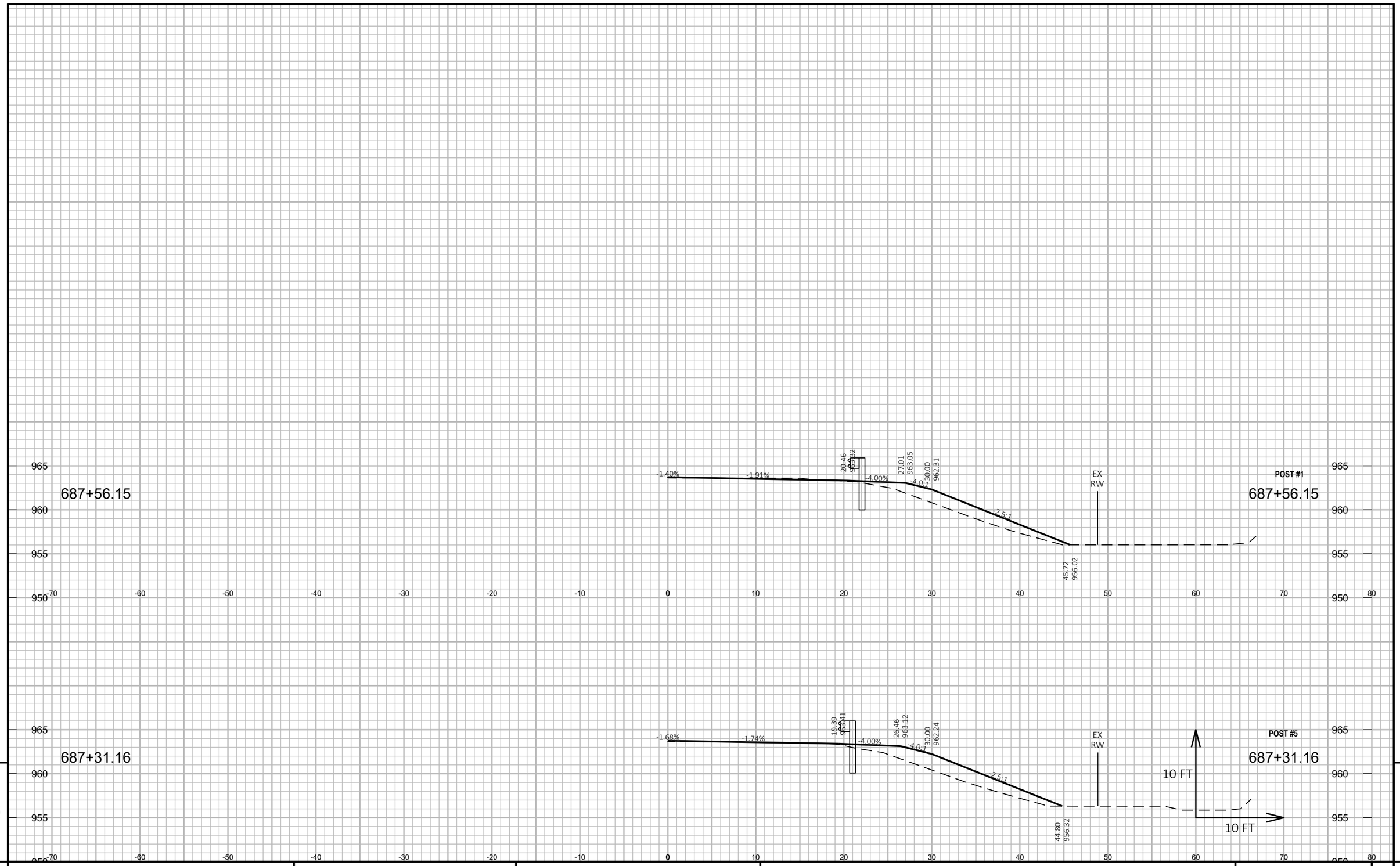
PLOT DATE : 8/1/2025 11:32 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 372	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 45

PLOT DATE : 8/1/2025 11:32 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

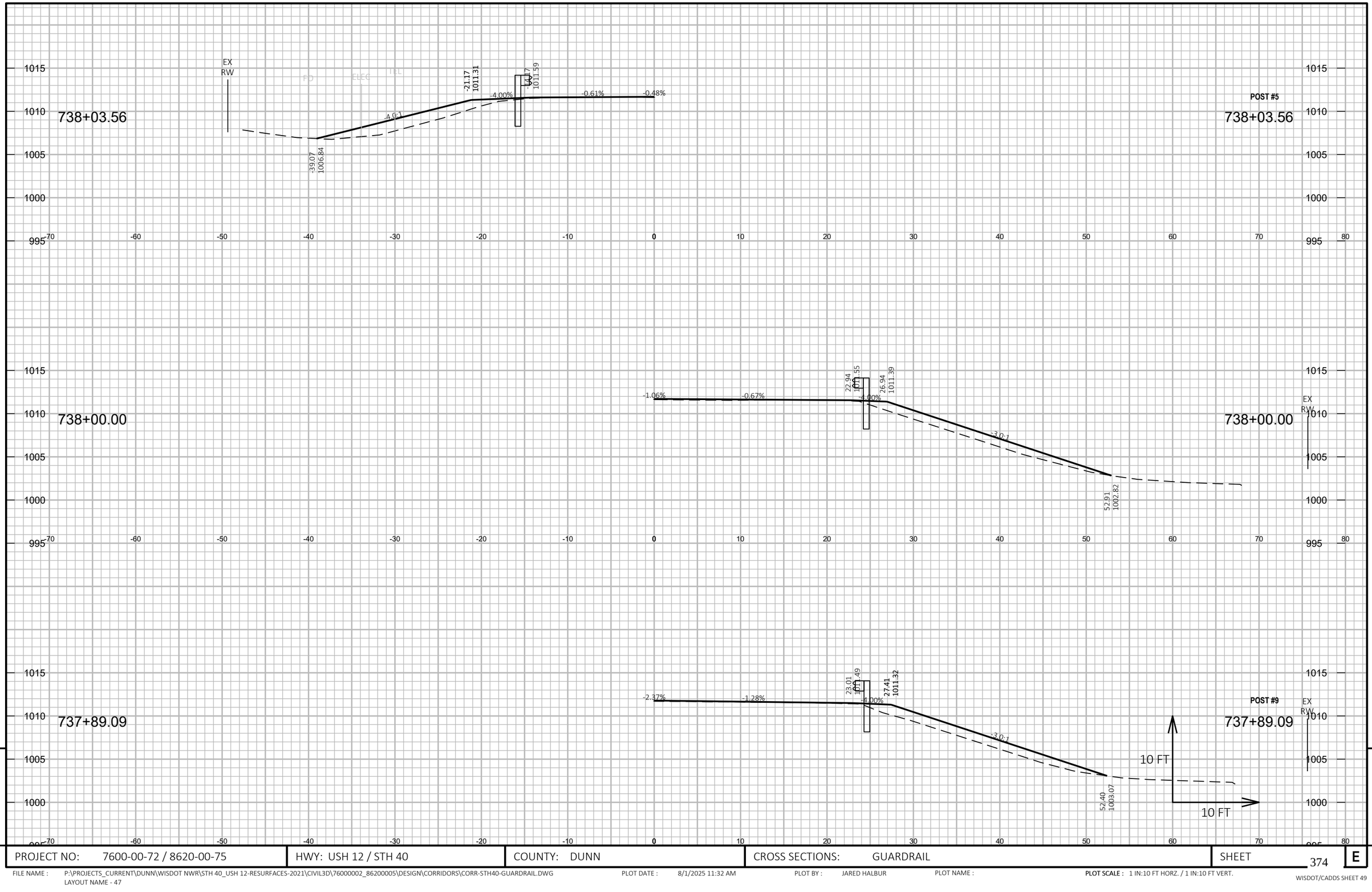
WISDOT/CADDS SHEET 49

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 373 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 46

PLOT DATE : 8/1/2025 11:32 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 374	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 47

PLOT DATE : 8/1/2025 11:32 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

738+70.33

-0.41%
-2.77%
23.50
1011.96
-4.00%
27.37
1011.80
3.0:1
46.02
1005.65
POST #9
738+70.33
EX RW

738+50.00

EX RW
FD
ELEC
TEL
-16.68
1012.08
-4.00%
0.22%
-1.61%
23.25
1011.84
-4.00%
27.25
1011.68
3.0:1
-24.43
1009.53
49.97
1004.18
738+50.00

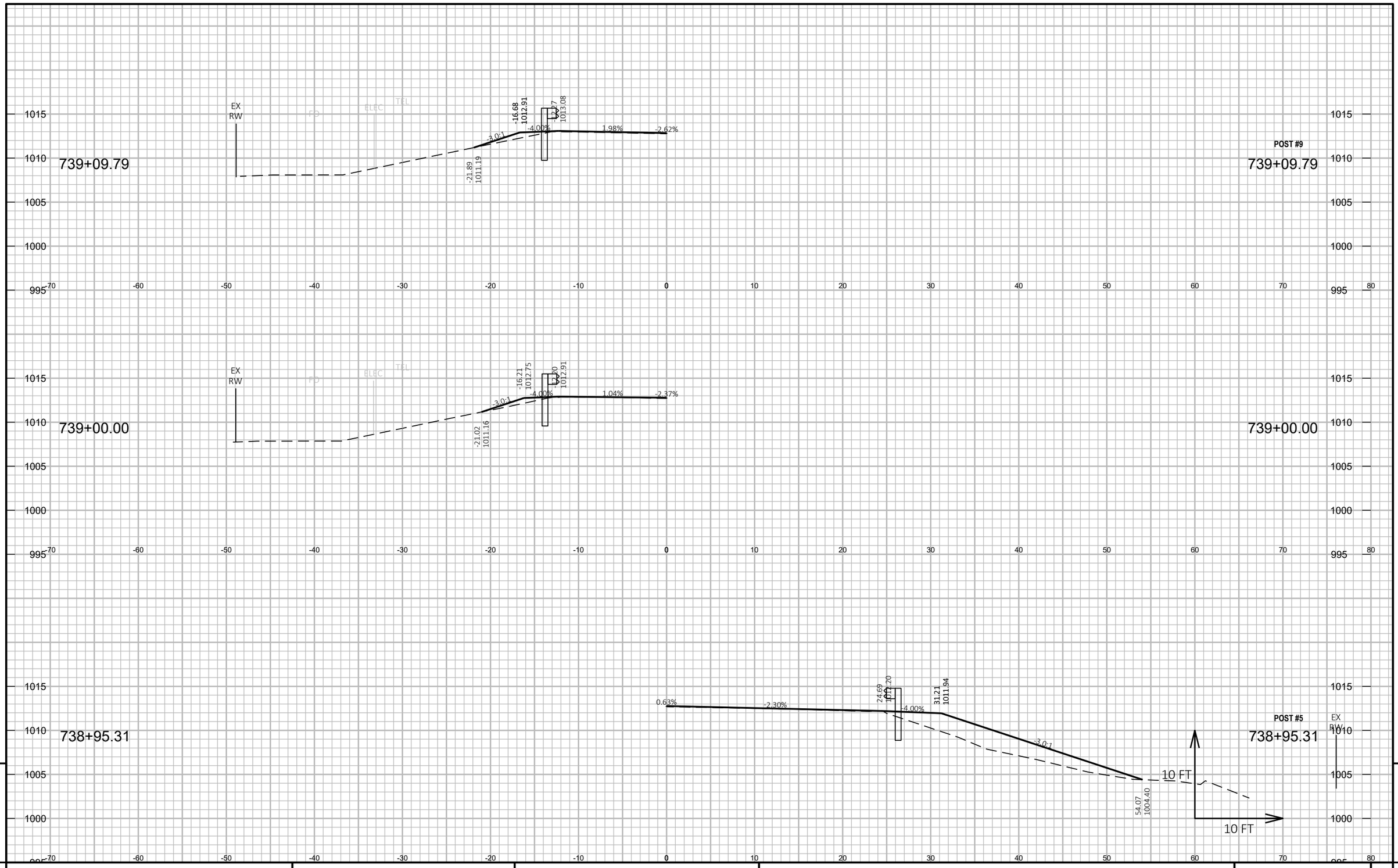
738+28.54

EX RW
FD
ELEC
TEL
-17.43
1011.77
-4.00%
-2.36%
-2.42%
3.0:1
29.04
1007.94
POST #9
738+28.54
10 FT
10 FT

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 375 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 48
PLOT DATE : 8/1/2025 11:33 AM
PLOT BY : JARED HALBUR
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 376	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 49

PLOT DATE : 8/1/2025 11:33 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

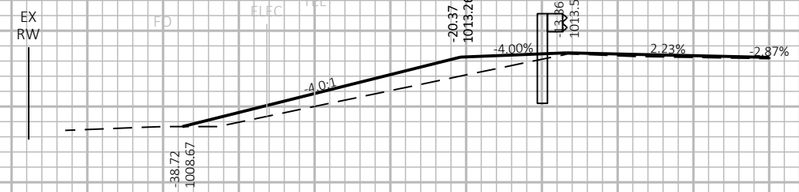
WISDOT/CADDS SHEET 49

739+59.55

POST #1

739+59.55

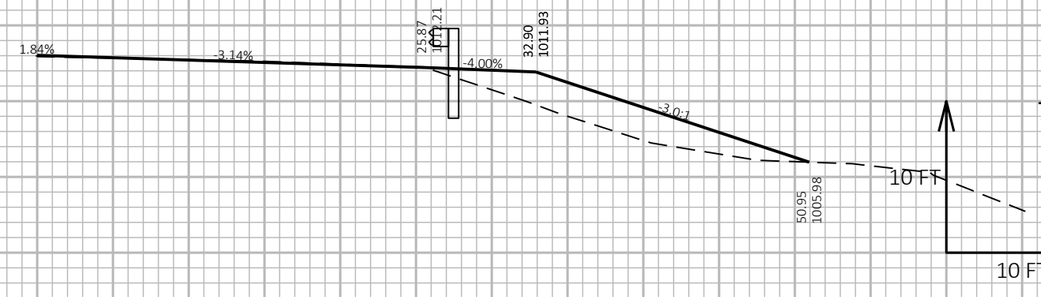
739+34.67



POST #5

739+34.67

739+20.36



POST #1

739+20.36

EX
RW

9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 377	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 50

PLOT DATE : 8/1/2025 11:33 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

765+78.72

EX RW

FD

-23.27
958.74

-24.18
958.52

-4.00%

-0.89%

-0.93%

POST #5

765+78.72

765+54.01

EX RW

-3.06%

-1.15%

18.45
959.36

-4.00%

25.67
959.07

30.00
957.99

-4.0:1

-3.0:1

46.33
952.60

TEL

ELEC

POST #1

765+54.01

765+53.74

EX RW

FD

-30.00
957.91

-26.87
958.69

-4.0:1

-3.0:1

-4.00%

-19.38
958.97

-3.06%

-1.16%

-34.71
956.35

POST #1

765+53.74

10 FT

10 FT

960
955
950
945

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80

9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 378	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 51

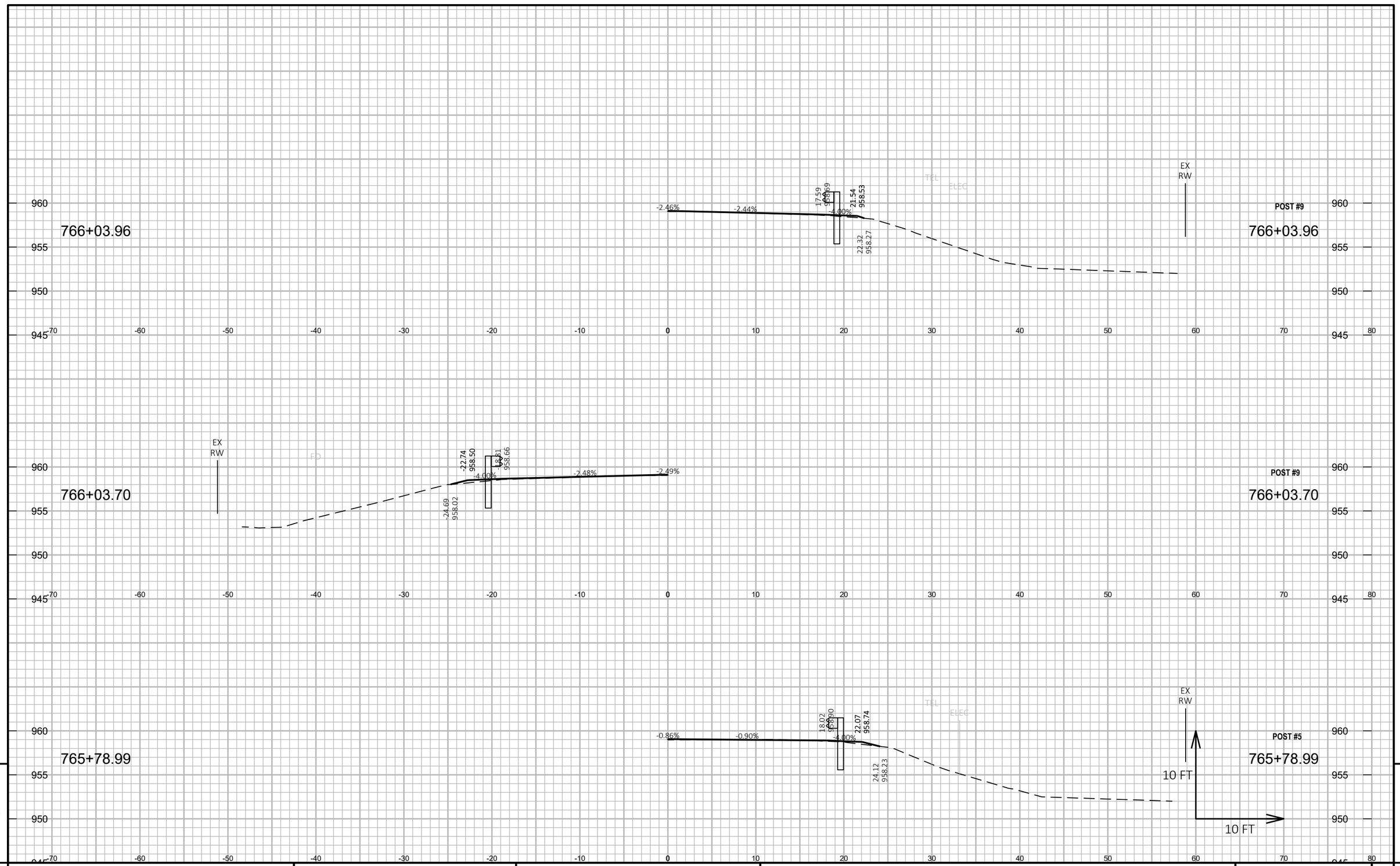
PLOT DATE : 8/1/2025 11:33 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

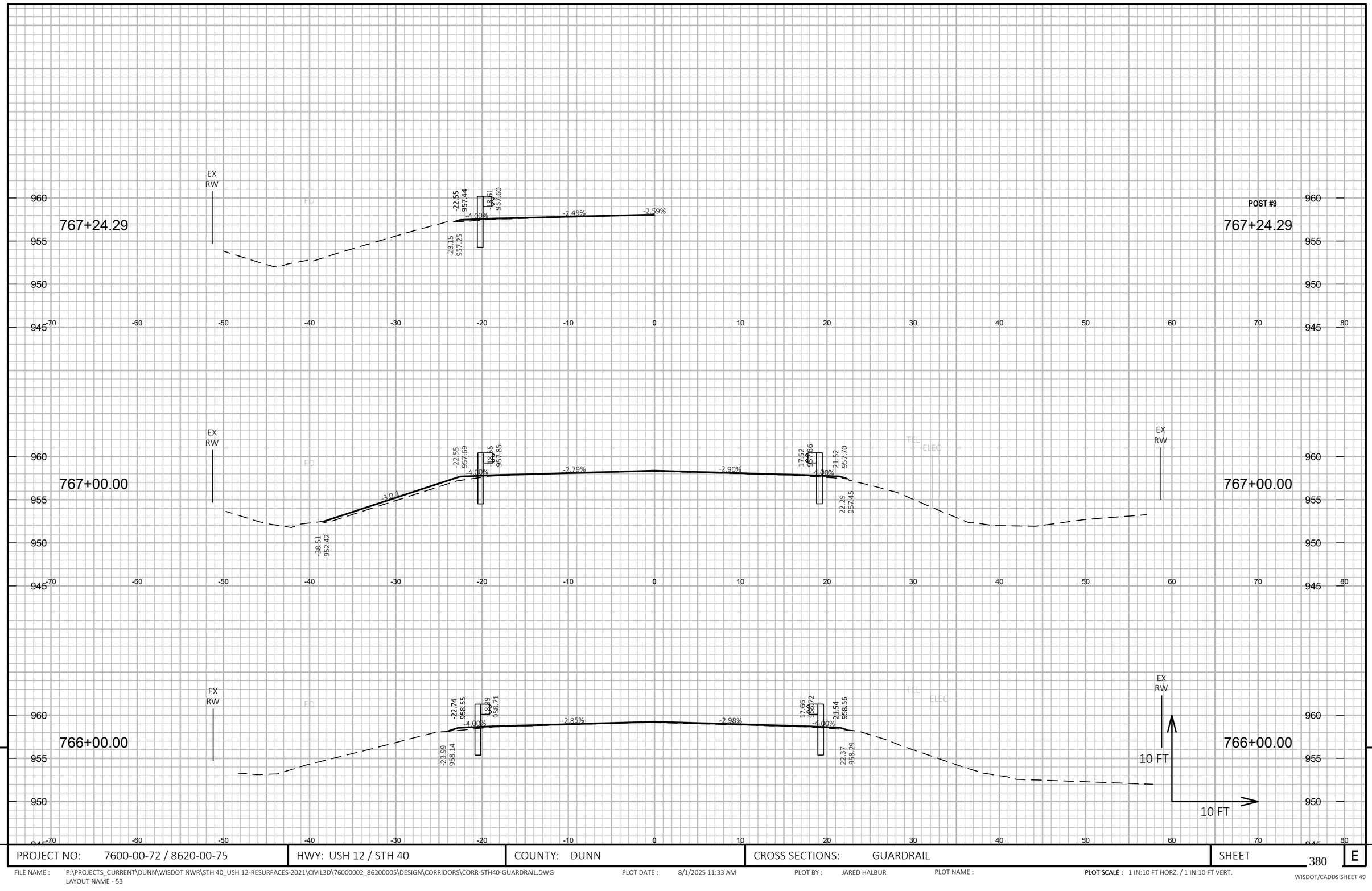
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 379	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 52

PLOT DATE : 8/1/2025 11:33 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



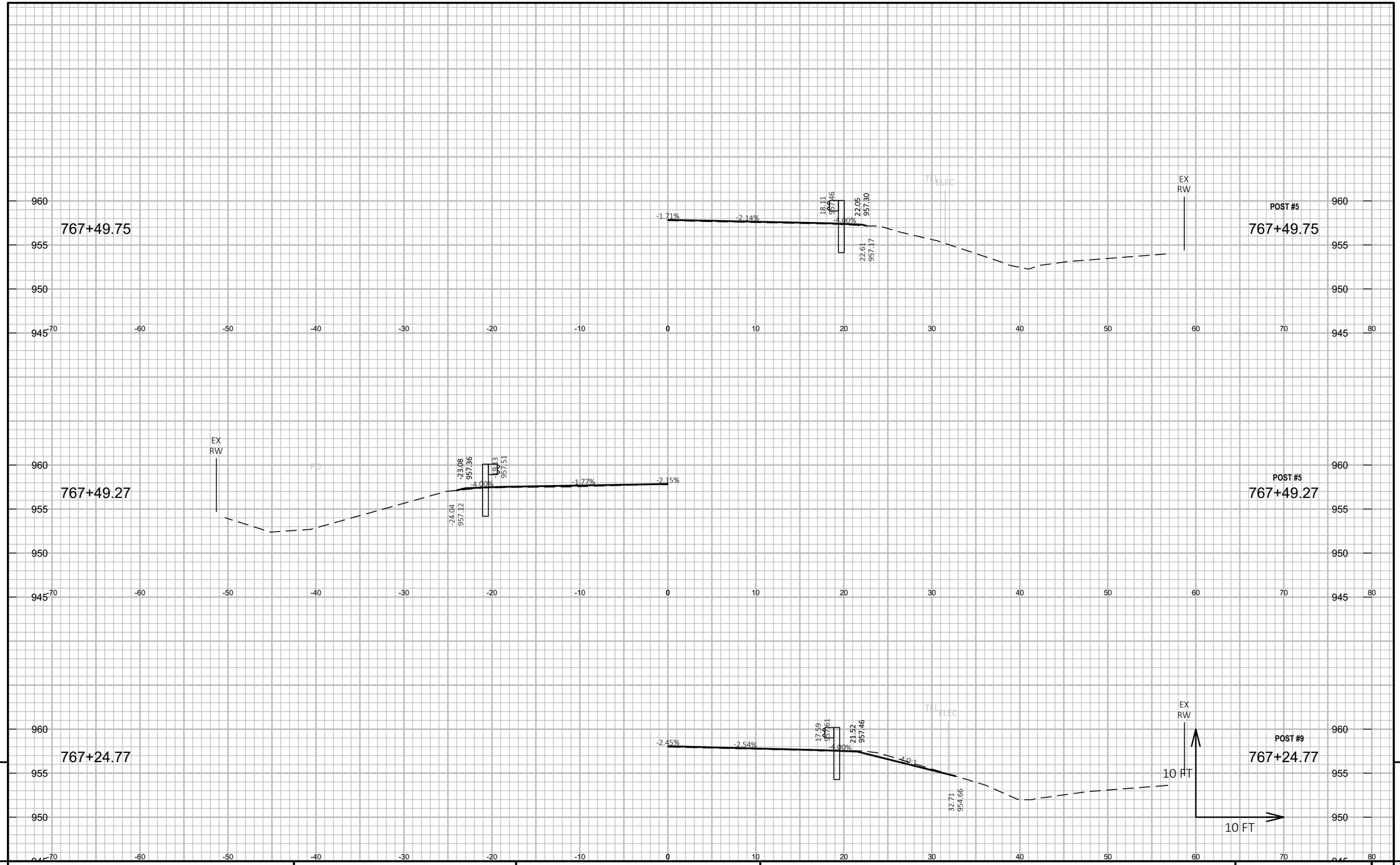
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 380	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 53

PLOT DATE : 8/1/2025 11:33 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



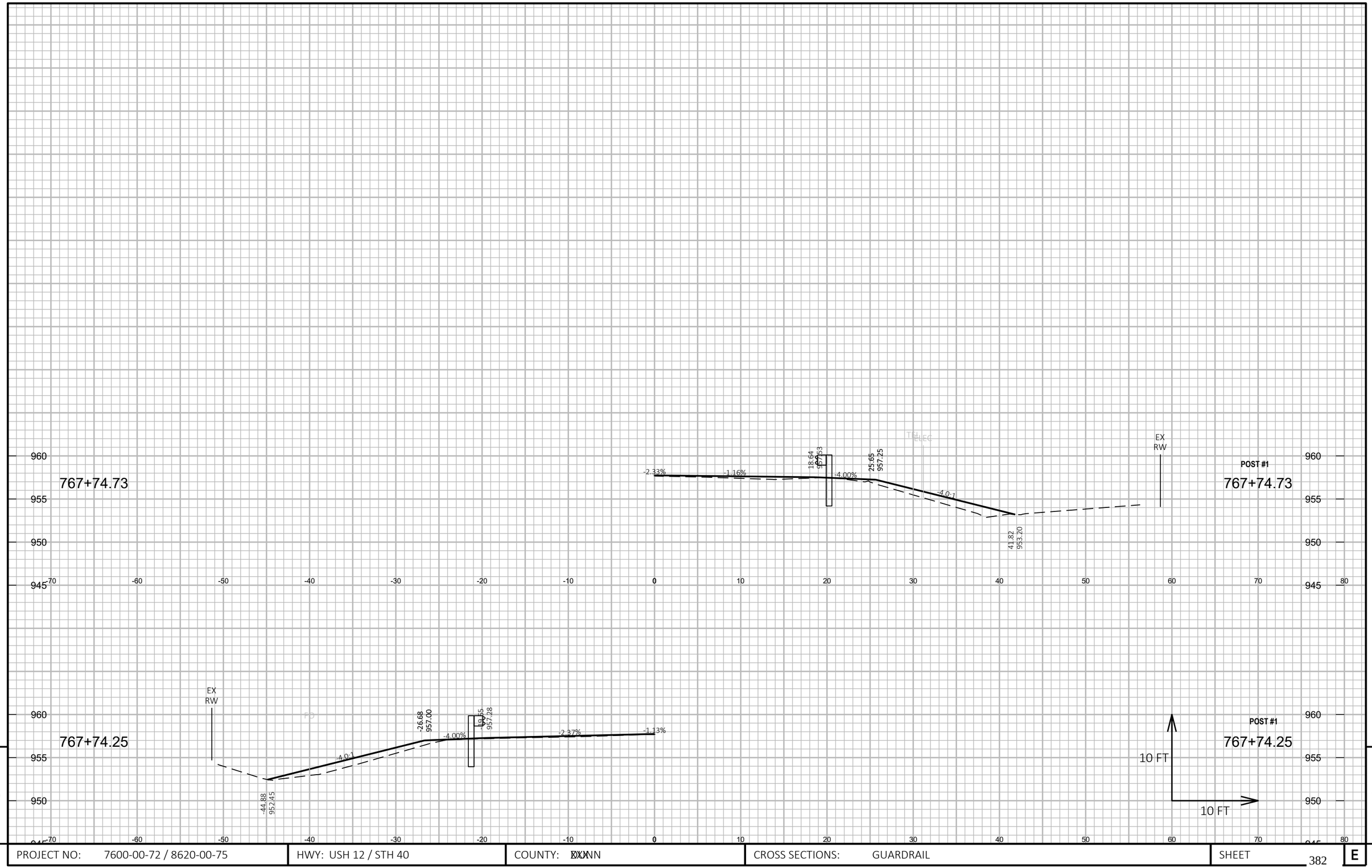
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 381	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 54

PLOT DATE : 8/1/2025 11:33 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



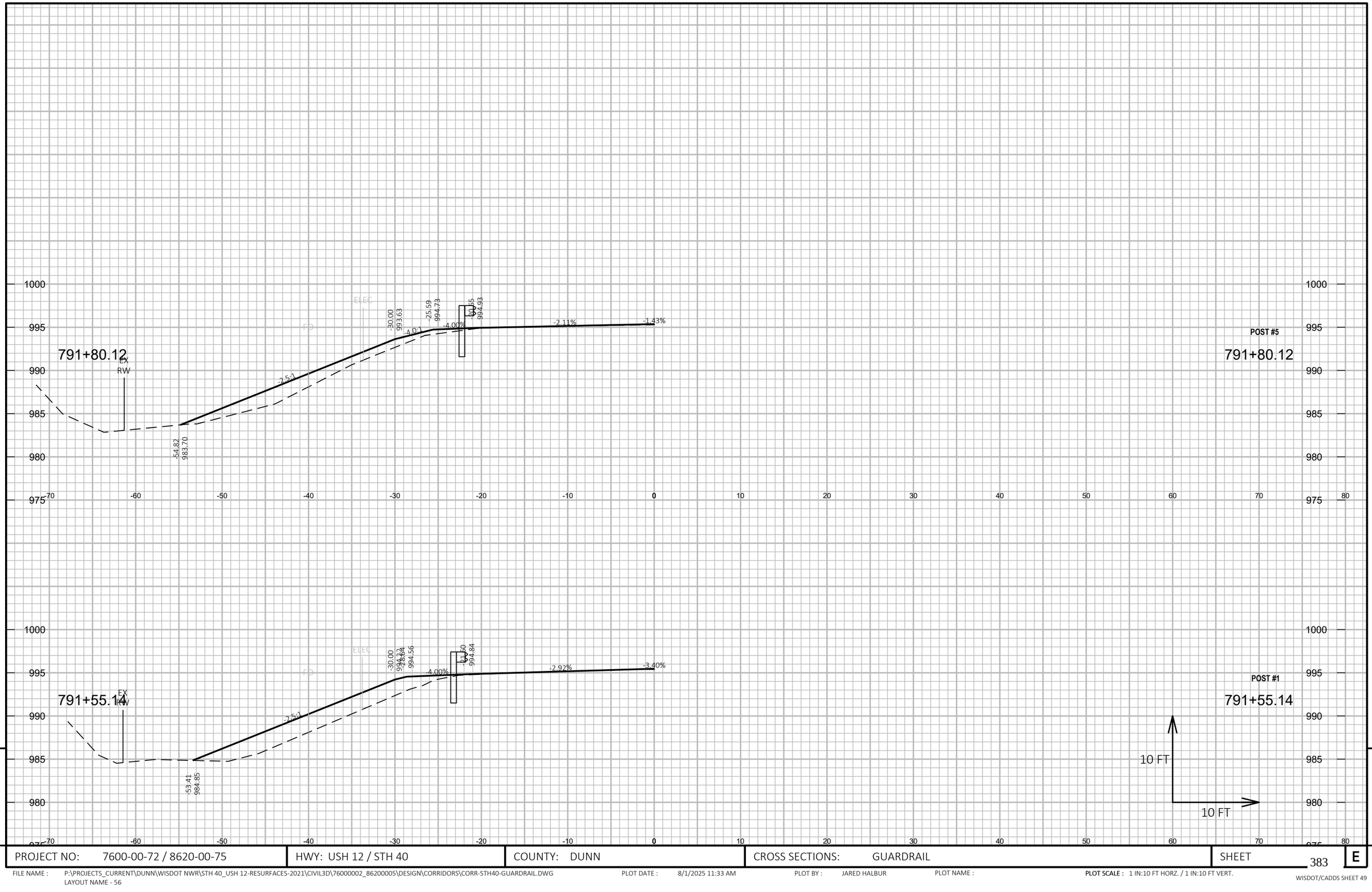
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 382	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 55

PLOT DATE : 8/1/2025 11:33 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 383	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 56

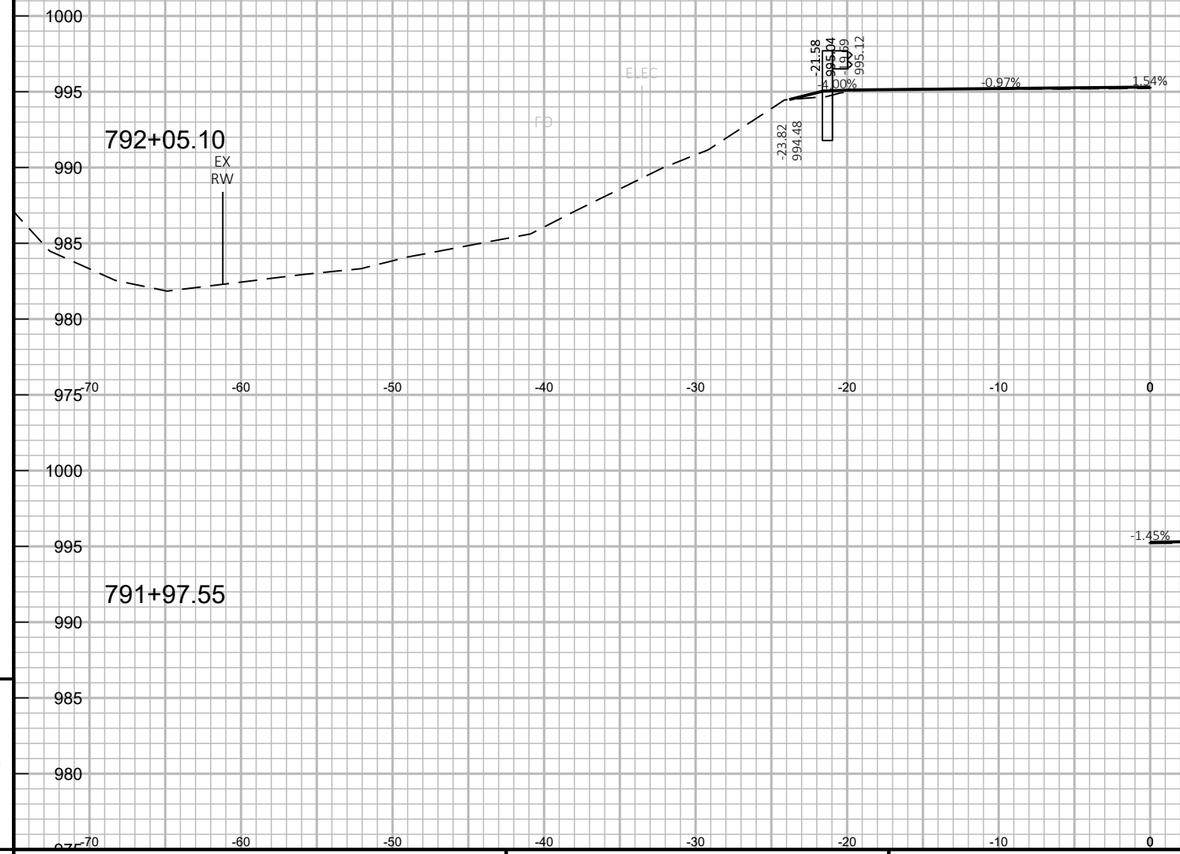
PLOT DATE : 8/1/2025 11:33 AM

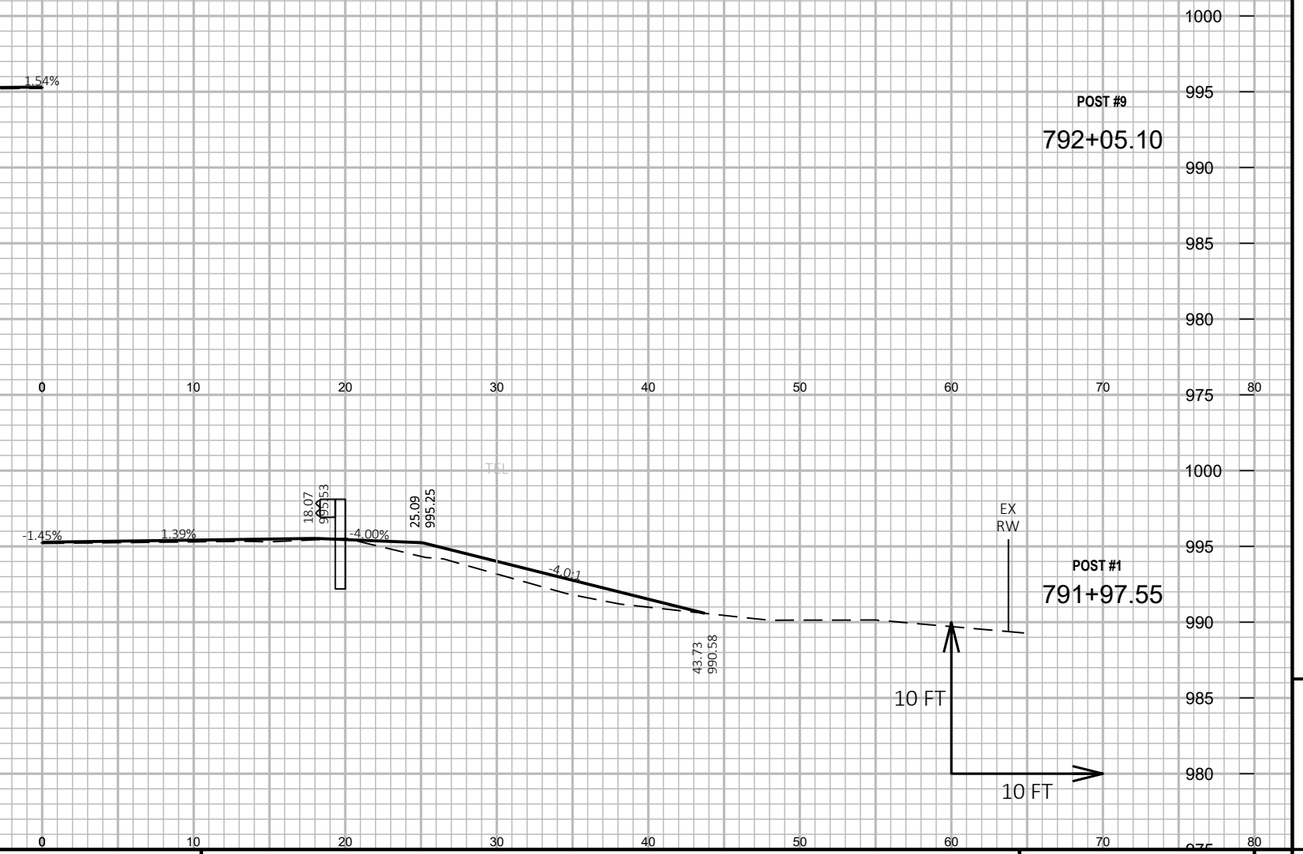
PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49





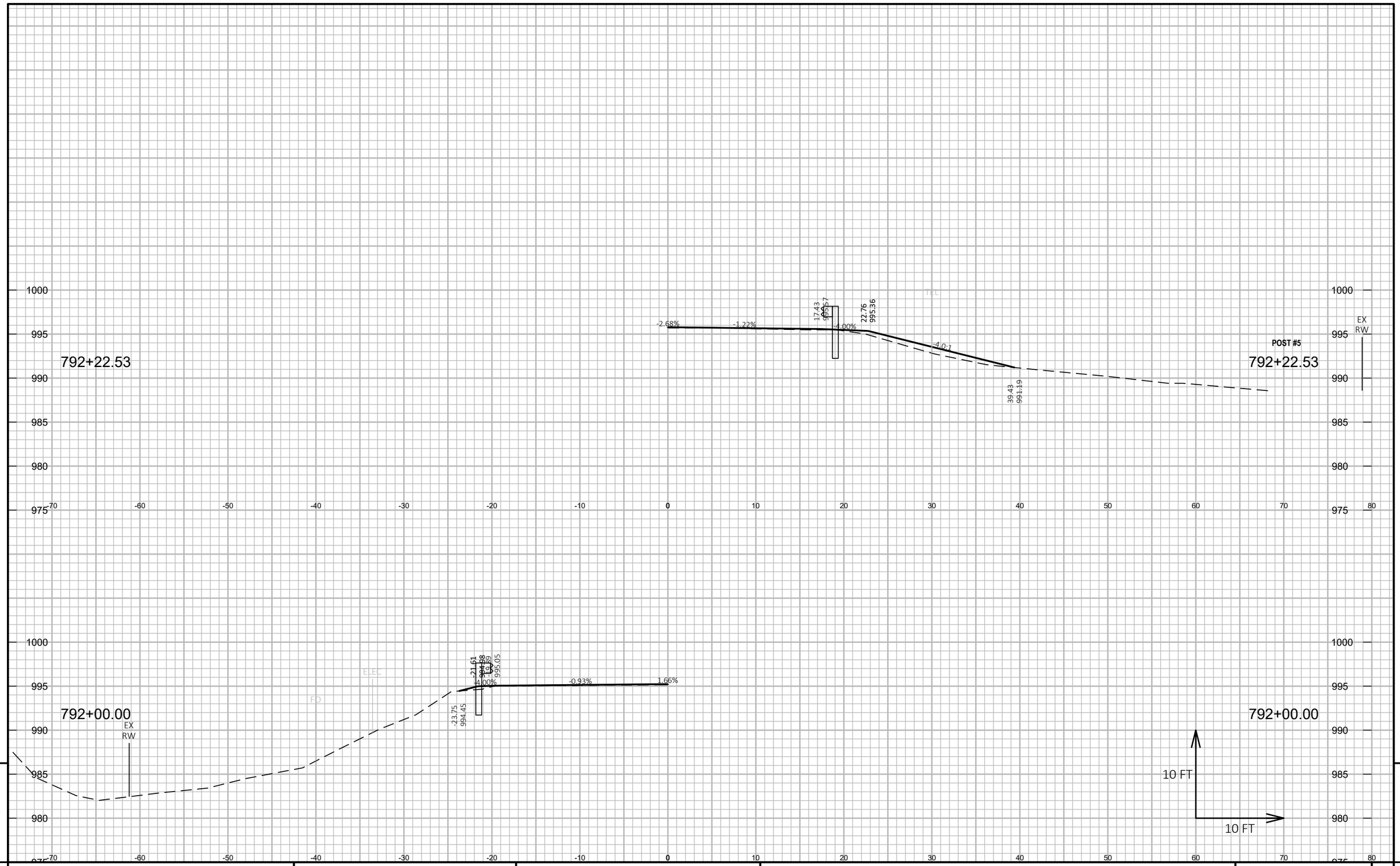
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 384	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 57

PLOT DATE : 8/1/2025 11:33 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

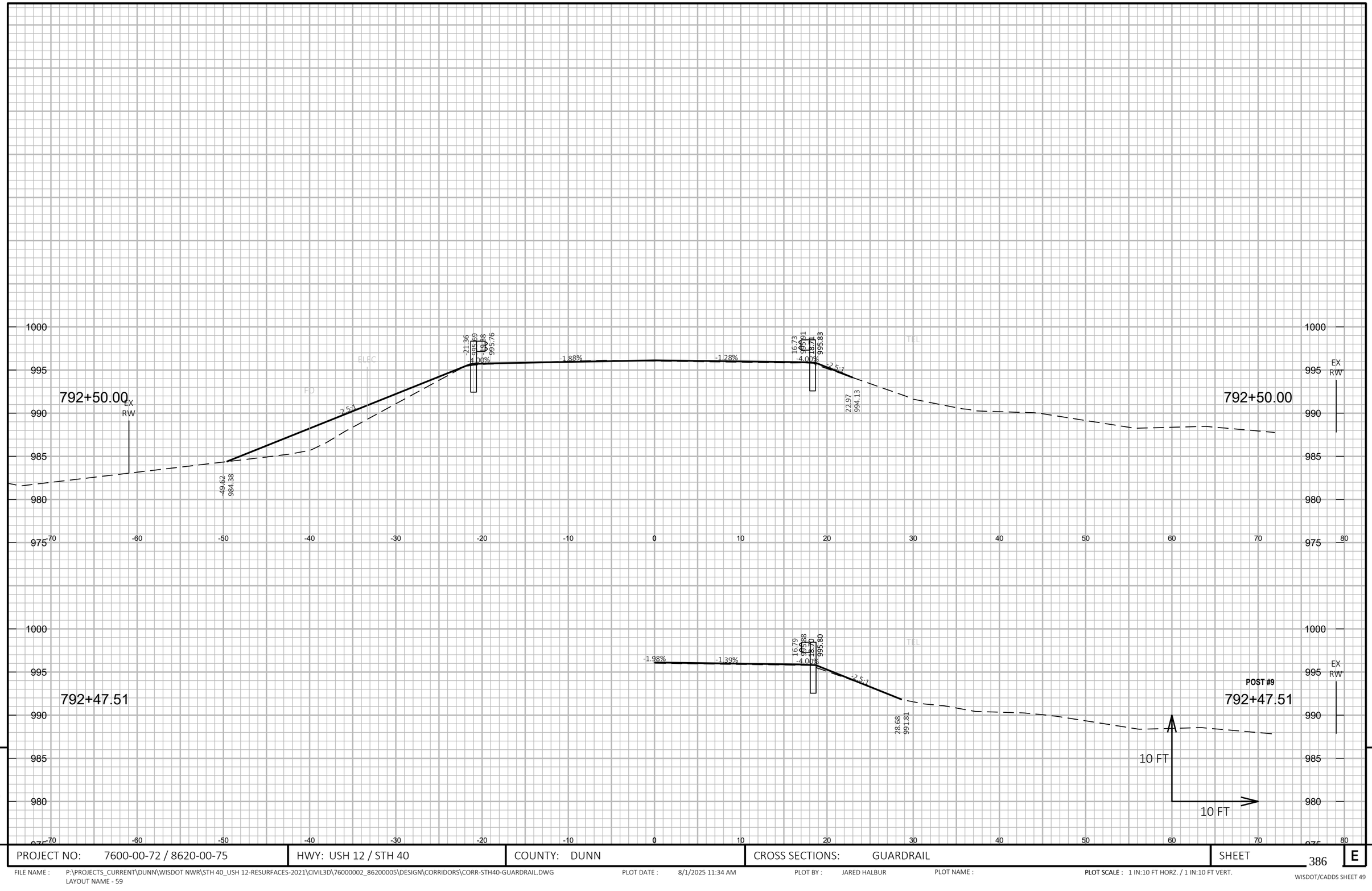


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 385	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 58

PLOT DATE : 8/1/2025 11:34 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

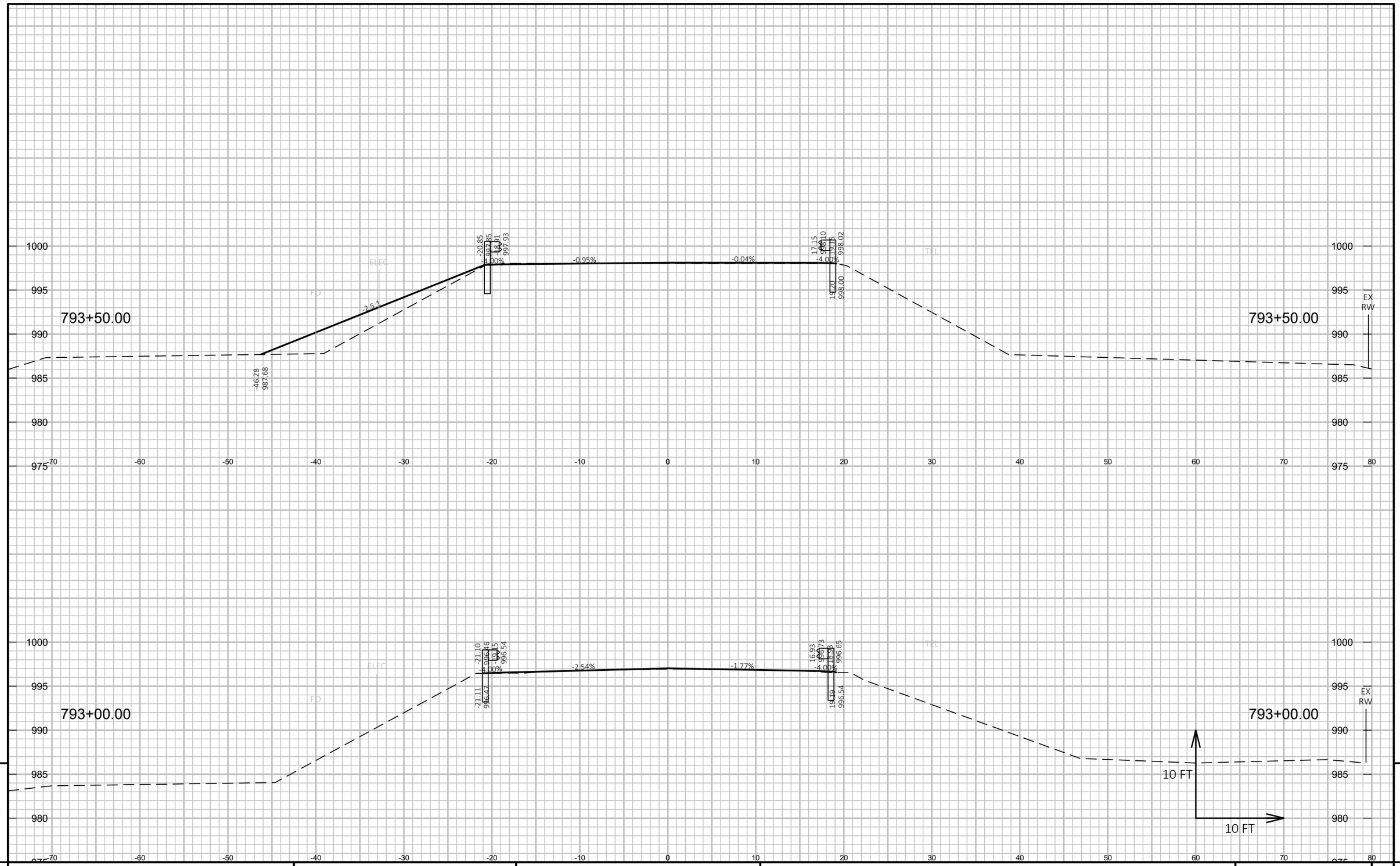
WISDOT/CADDS SHEET 49



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 386	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 59

PLOT DATE : 8/1/2025 11:34 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

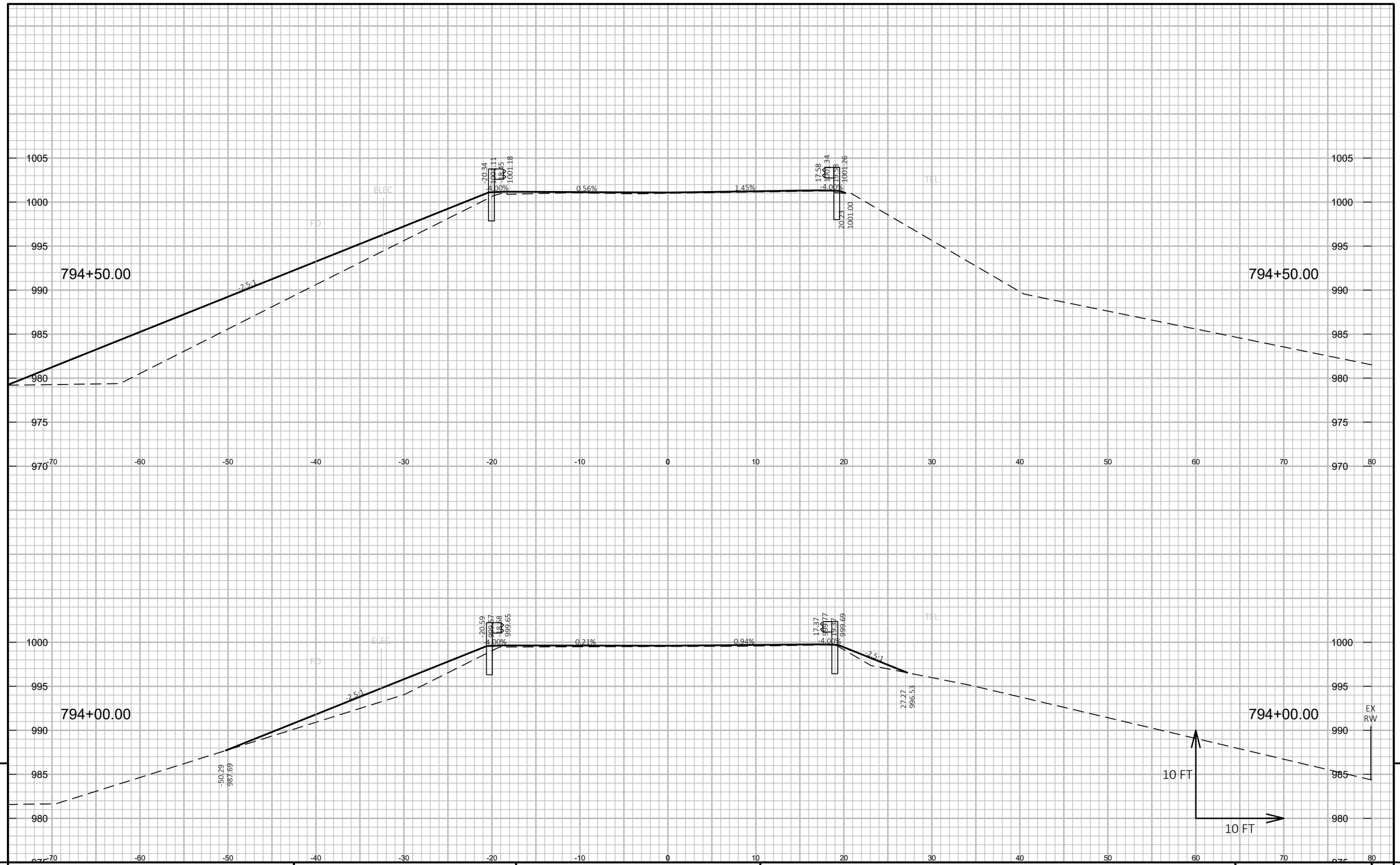


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 387	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 60

PLOT DATE : 8/1/2025 11:34 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 388	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 61

PLOT DATE : 8/1/2025 11:34 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

795+50.00

795+50.00

795+00.00

795+00.00

10 FT

10 FT

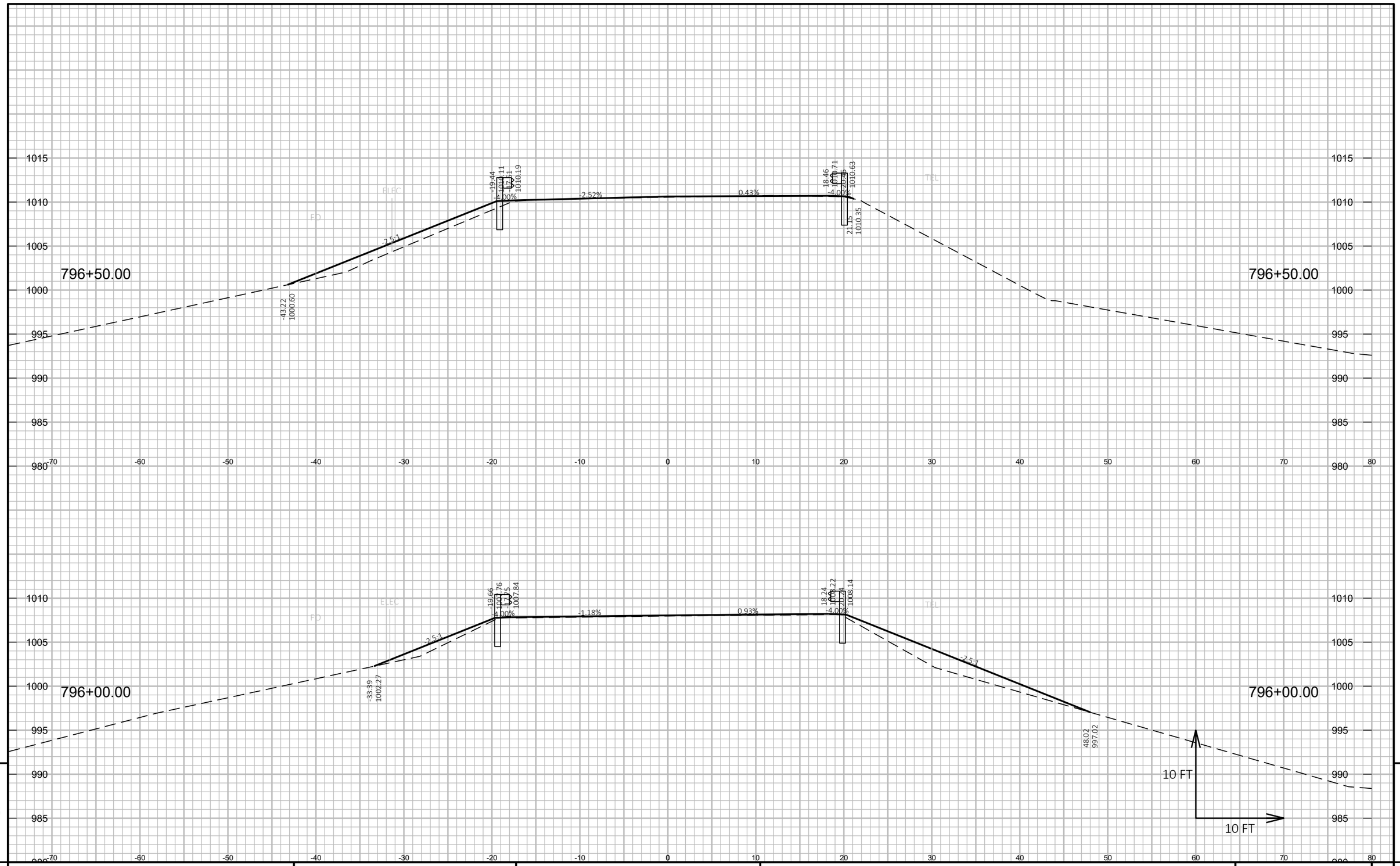
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 389	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 62

PLOT DATE : 8/1/2025 11:34 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 390	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 63

PLOT DATE : 8/1/2025 11:34 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

797+03.78

POST #9

797+03.78

797+00.00

797+00.00

10 FT

10 FT

9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 391	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 64

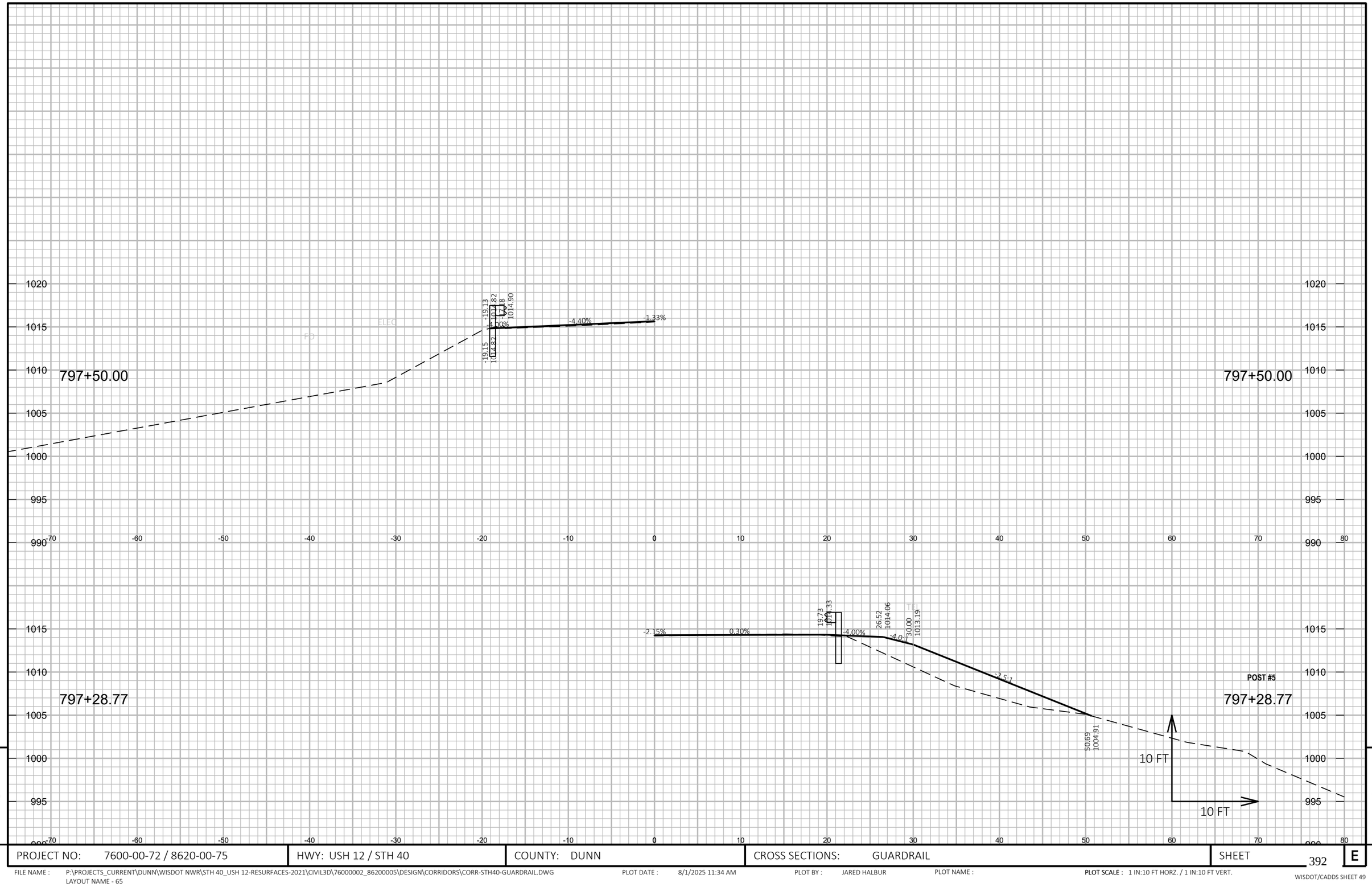
PLOT DATE : 8/1/2025 11:34 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49



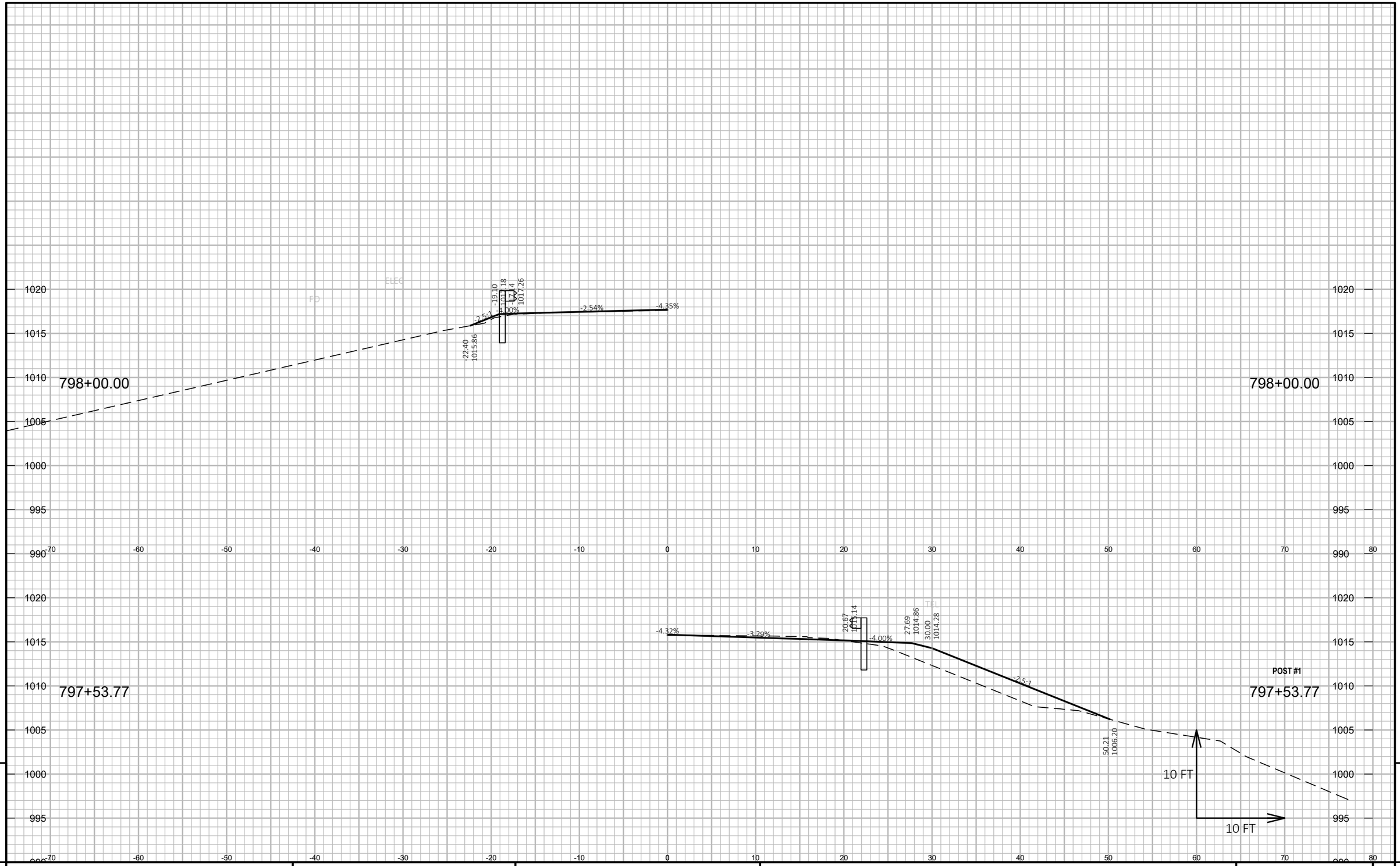
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 392	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 65

PLOT DATE : 8/1/2025 11:34 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

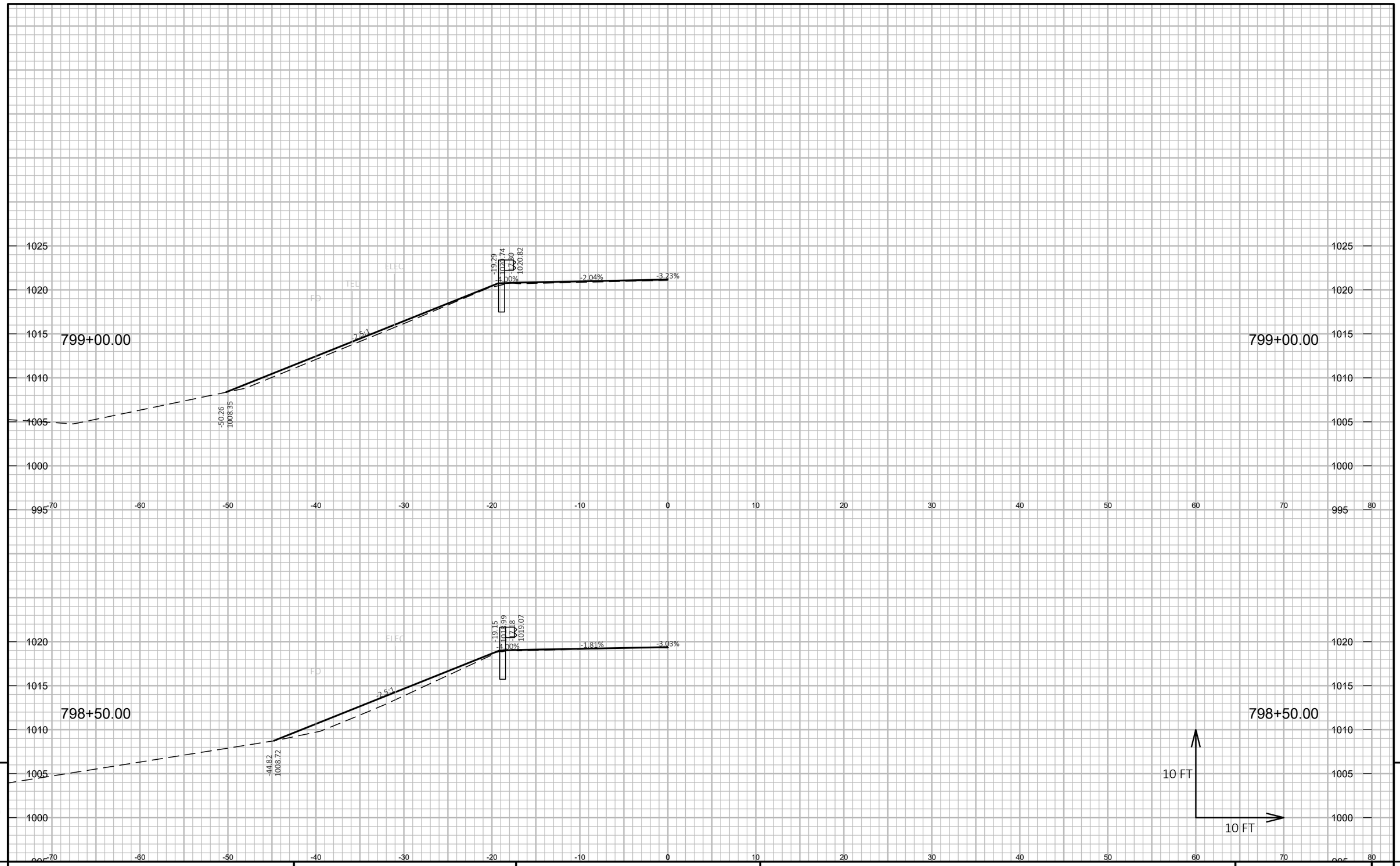


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 393	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 66

PLOT DATE : 8/1/2025 11:34 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



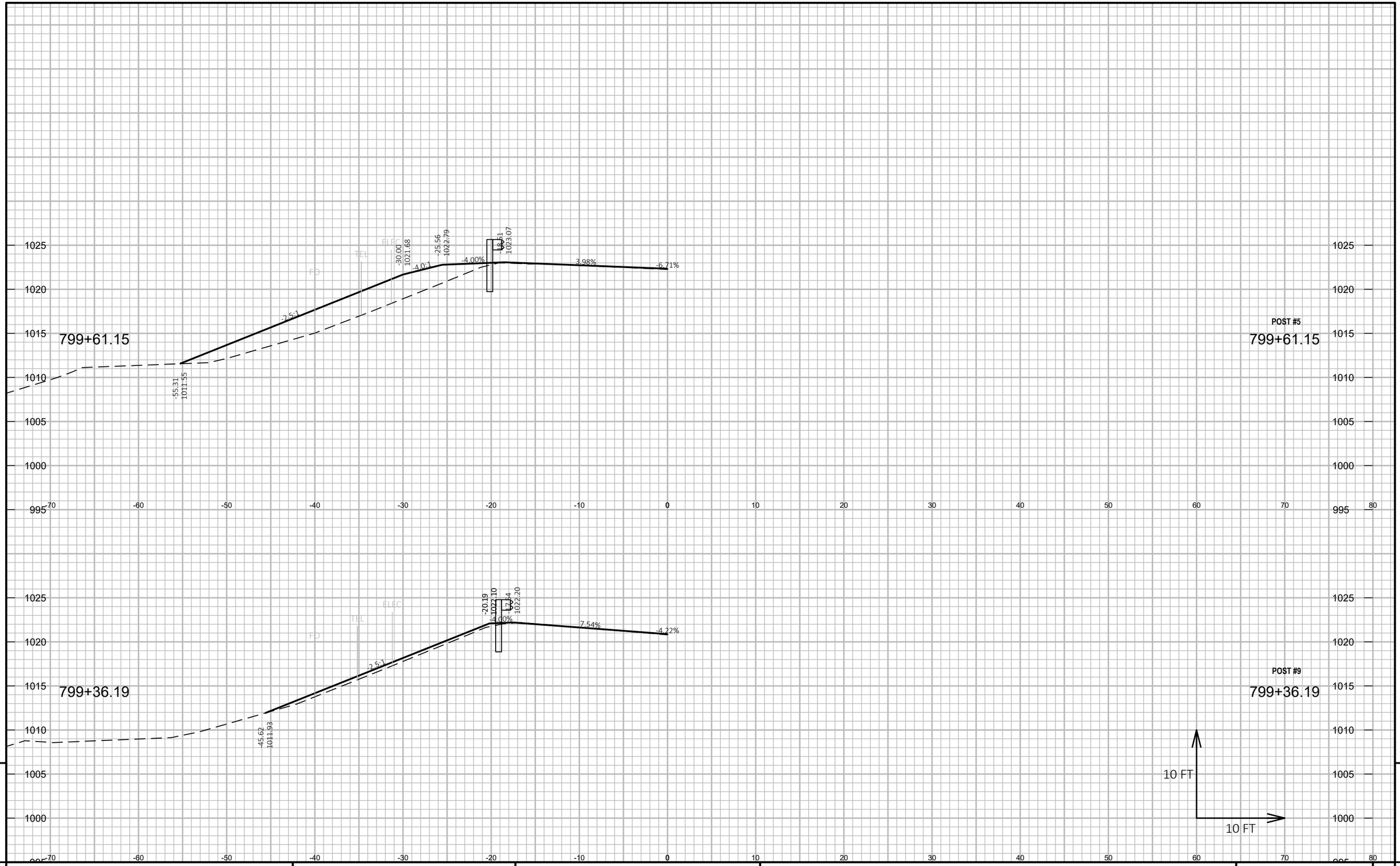
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 394	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 67

PLOT DATE : 8/1/2025 11:34 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

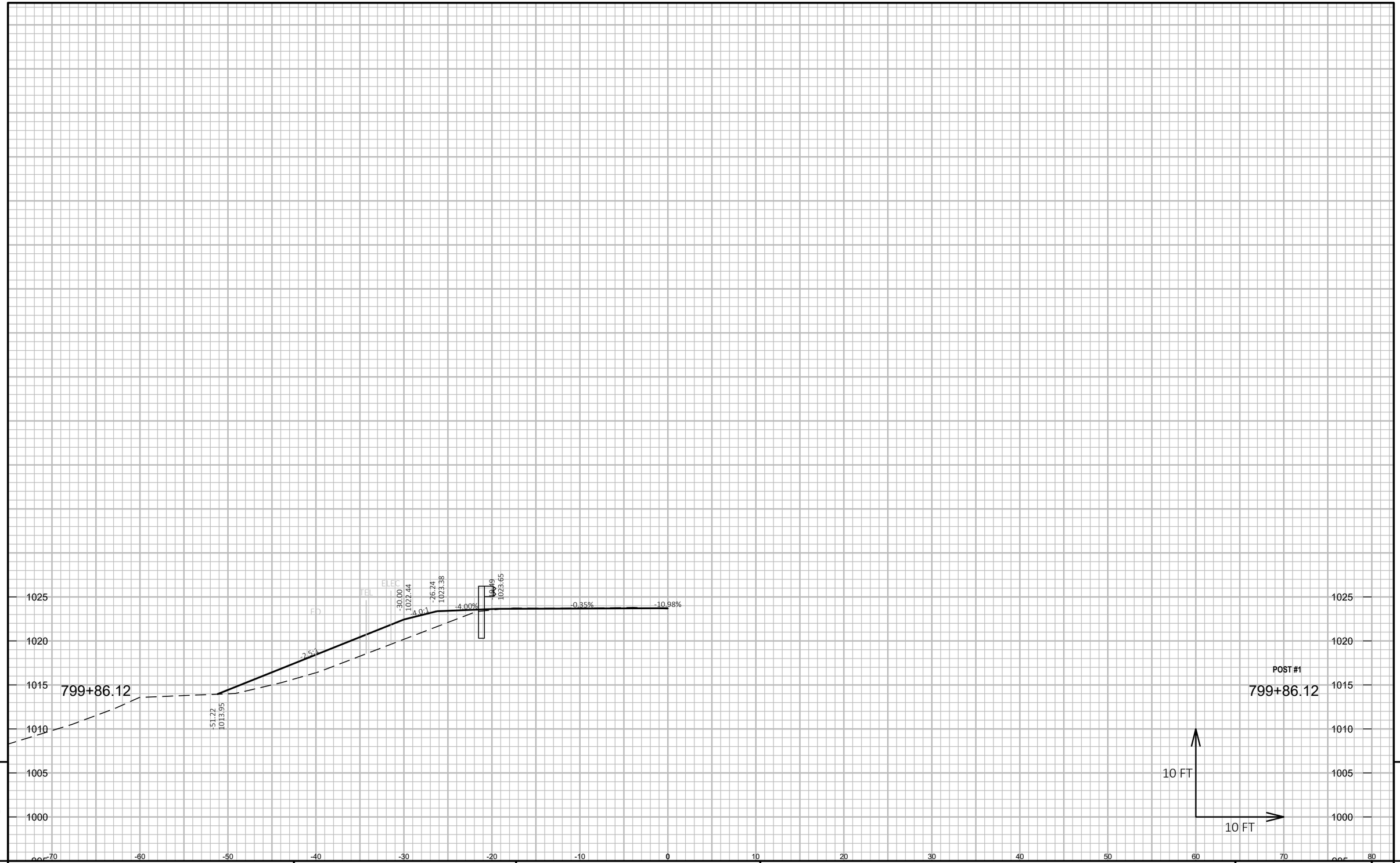


9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 395	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 68

PLOT DATE : 8/1/2025 11:35 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

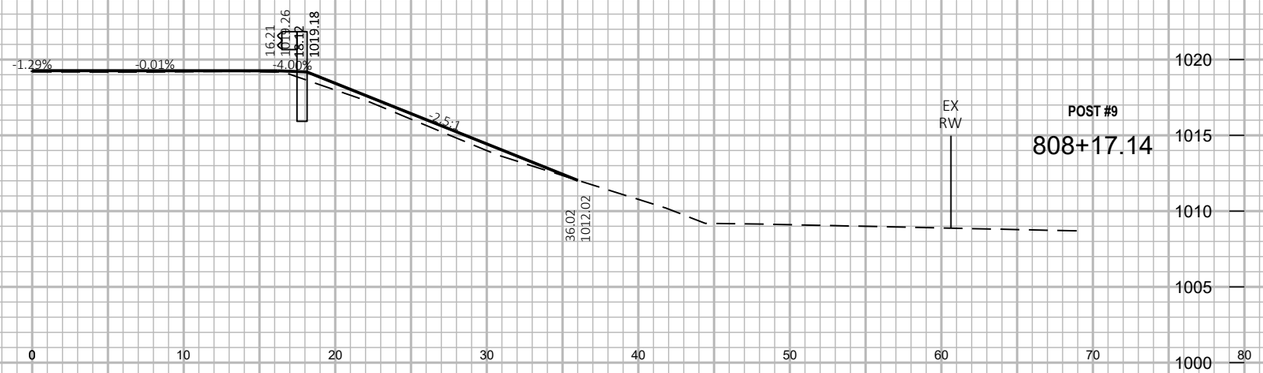
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 396	E

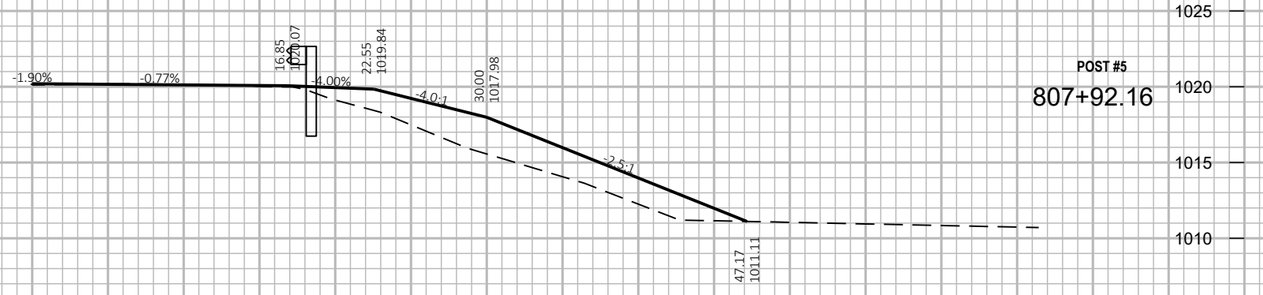
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 69

PLOT DATE : 8/1/2025 11:35 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

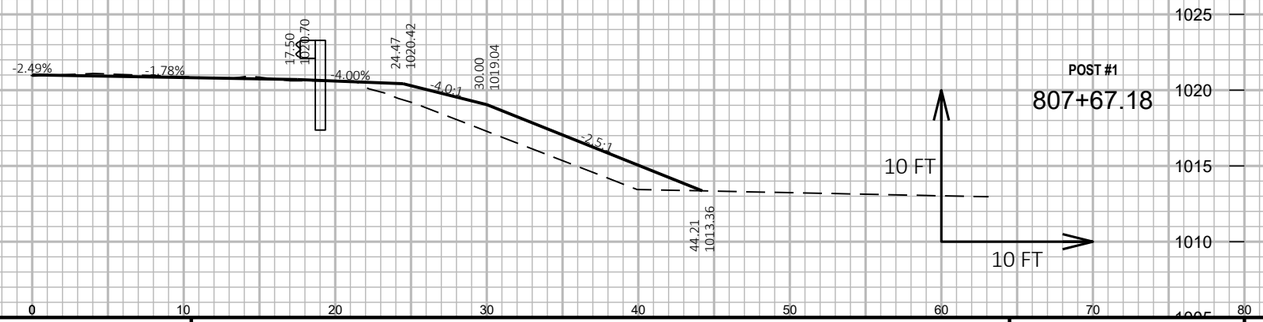
808+17.14



807+92.16



807+67.18



9

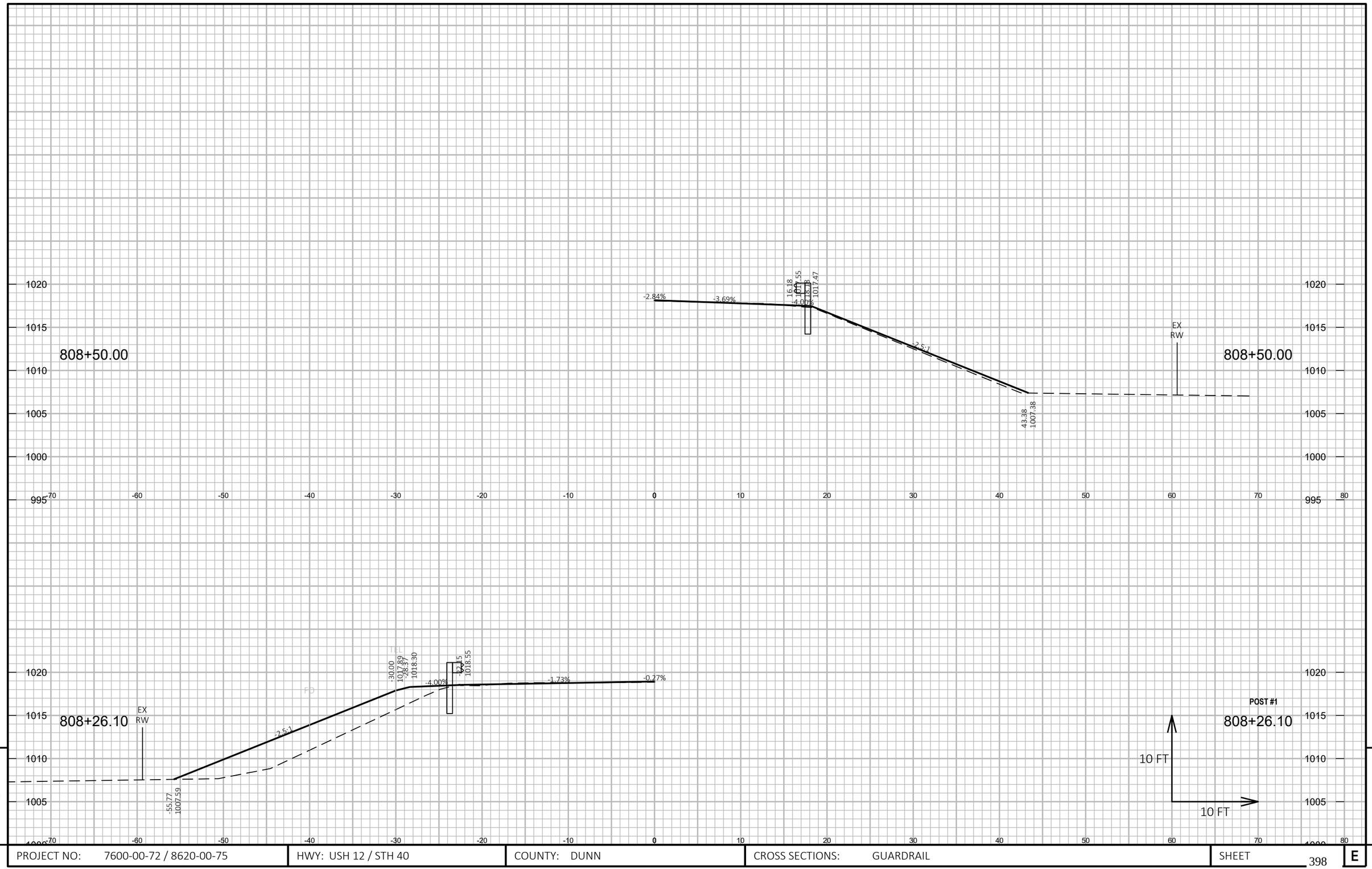
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 397	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 70

PLOT DATE : 8/1/2025 11:35 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 398	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 71

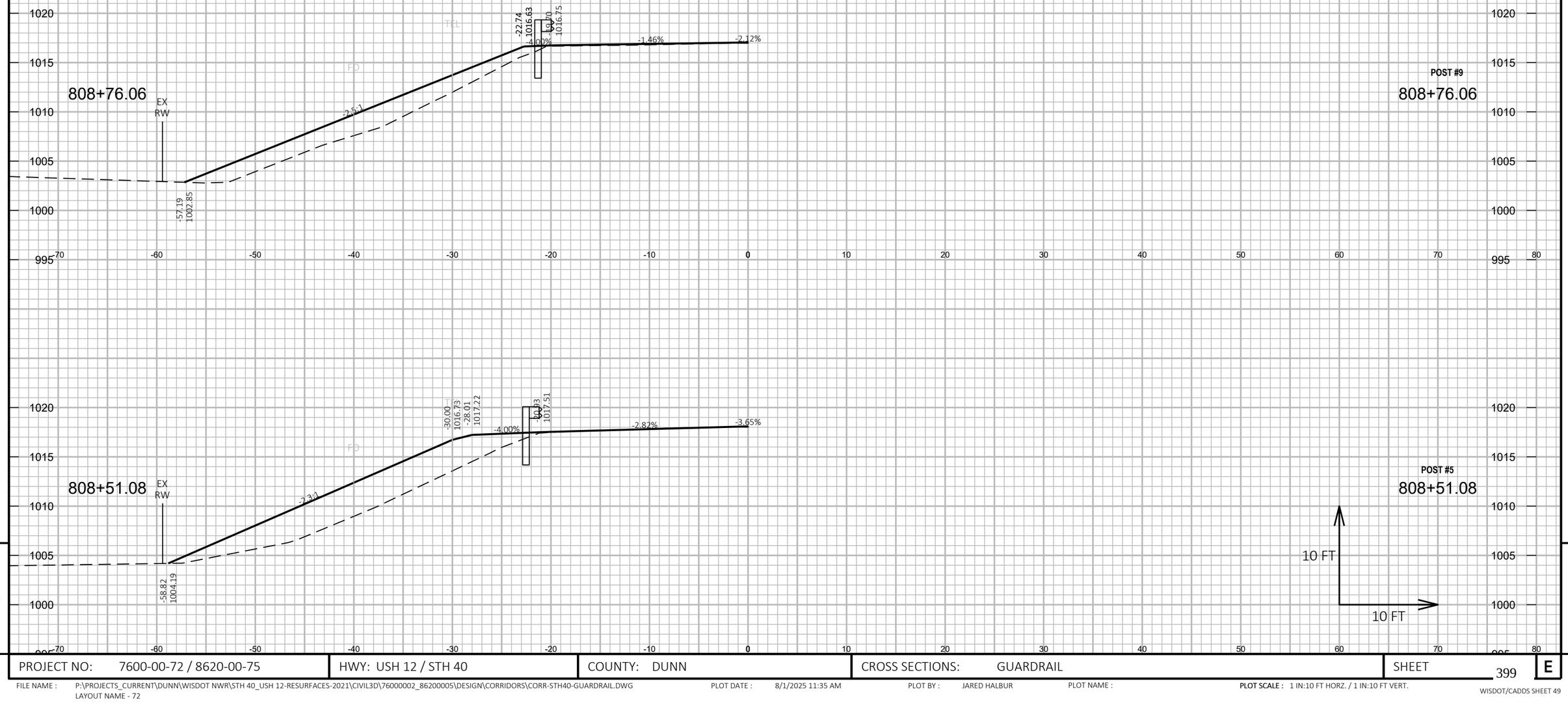
PLOT DATE : 8/1/2025 11:35 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49

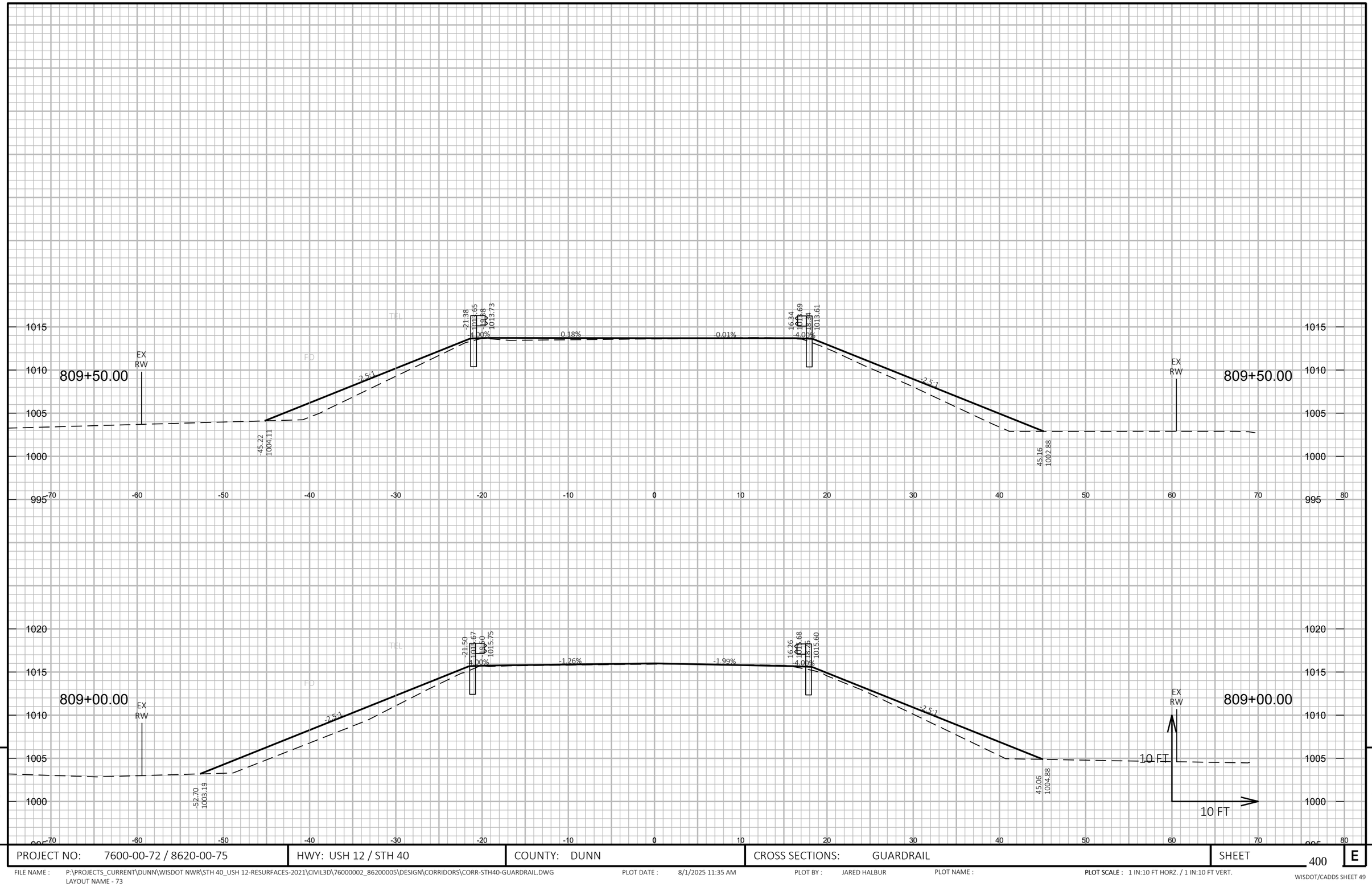


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 399	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 72

PLOT DATE : 8/1/2025 11:35 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET	E

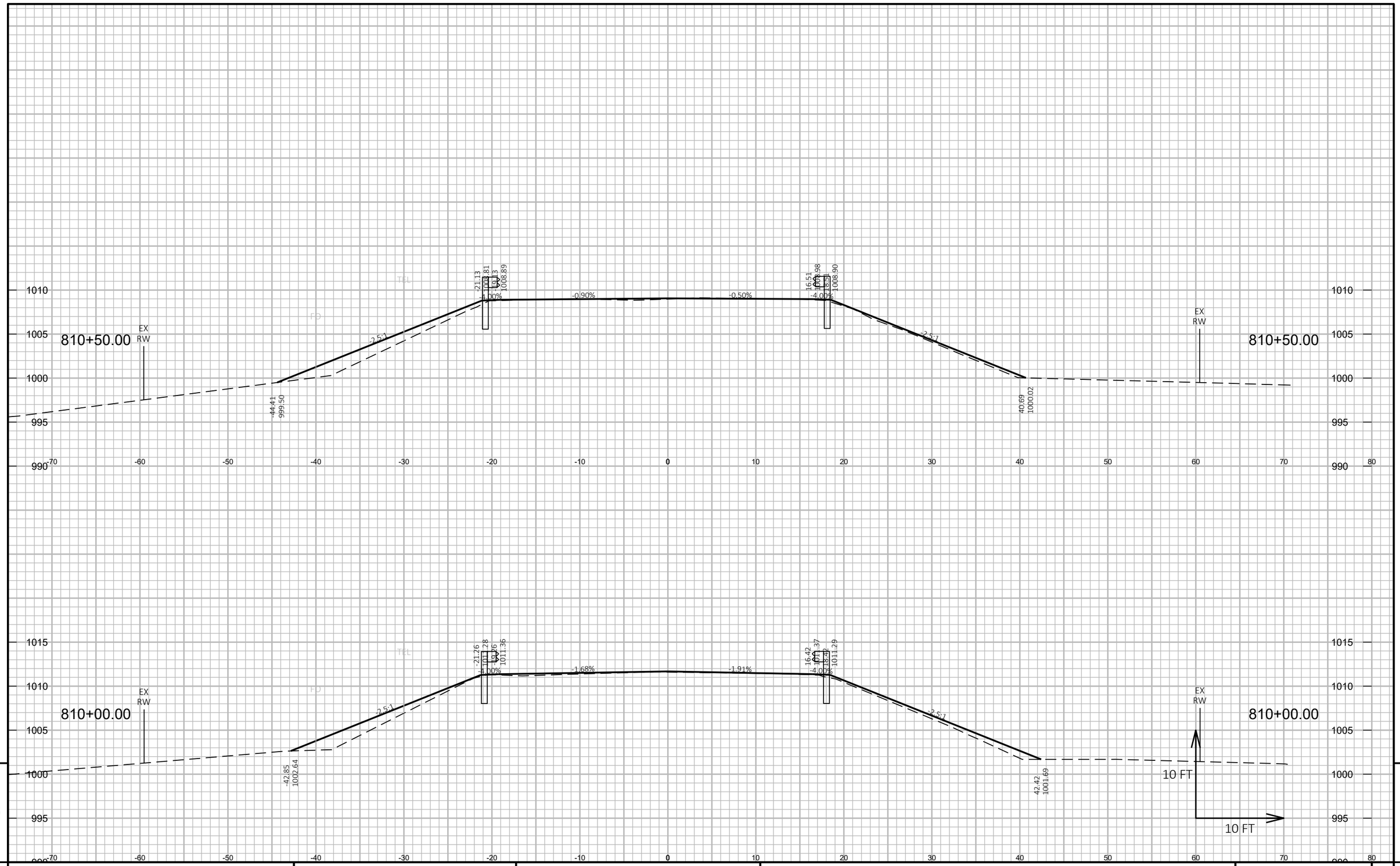
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 73

PLOT DATE : 8/1/2025 11:35 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 401	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 74

PLOT DATE : 8/1/2025 11:35 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

811+00.00

EX
RW

-21.01
1004.55
LOD 1
1006.63

-21.32
1006.43

-1.80%

-3.08%

811+00.00

810+98.39

-1.37%

-2.71%

16.74
1006.56

-4.00%

19.39
1006.45

2.5:1

45.53
995.99

POST #9

810+98.39

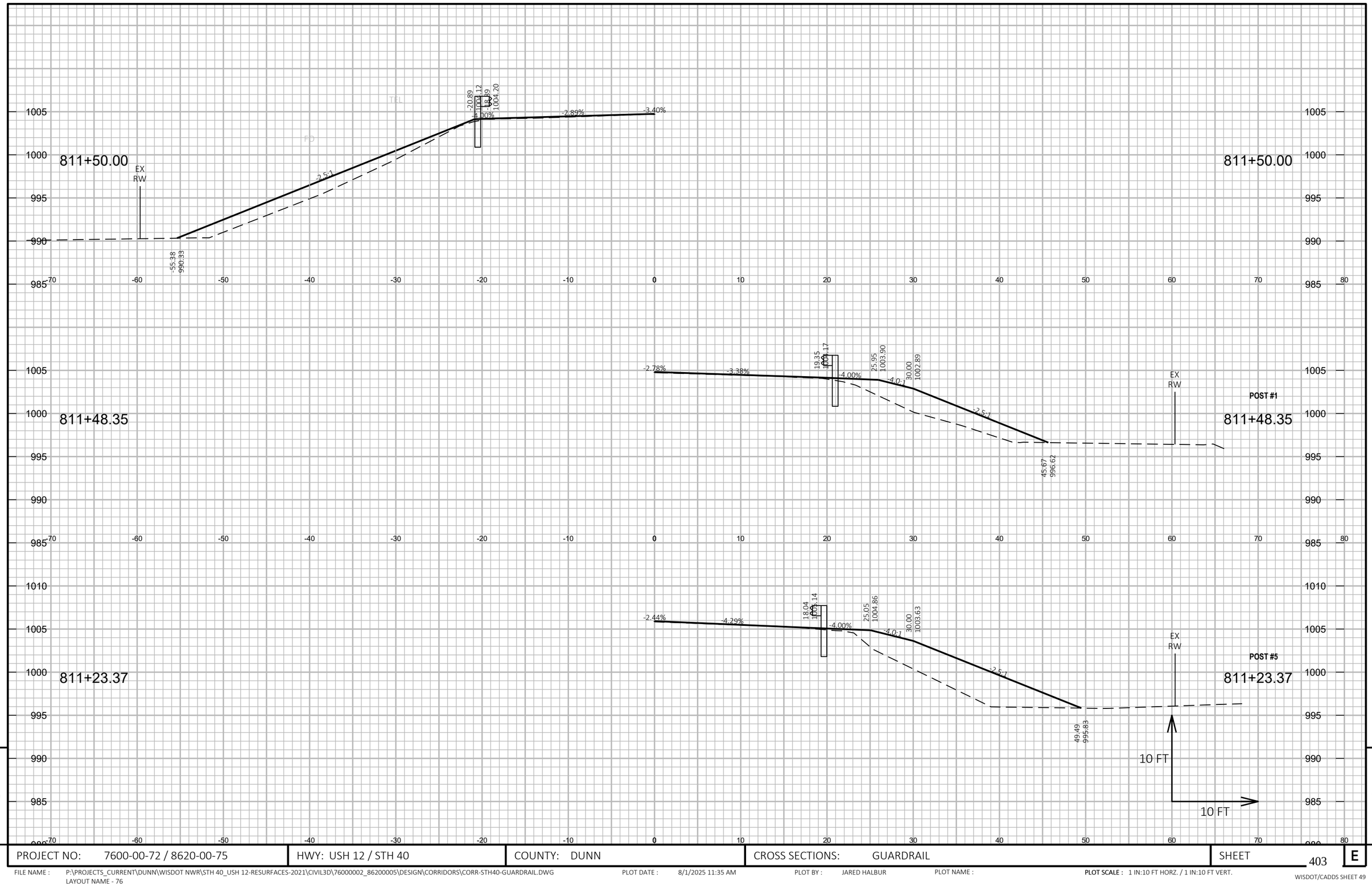
10 FT

10 FT

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 402 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 75

PLOT DATE : 8/1/2025 11:35 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

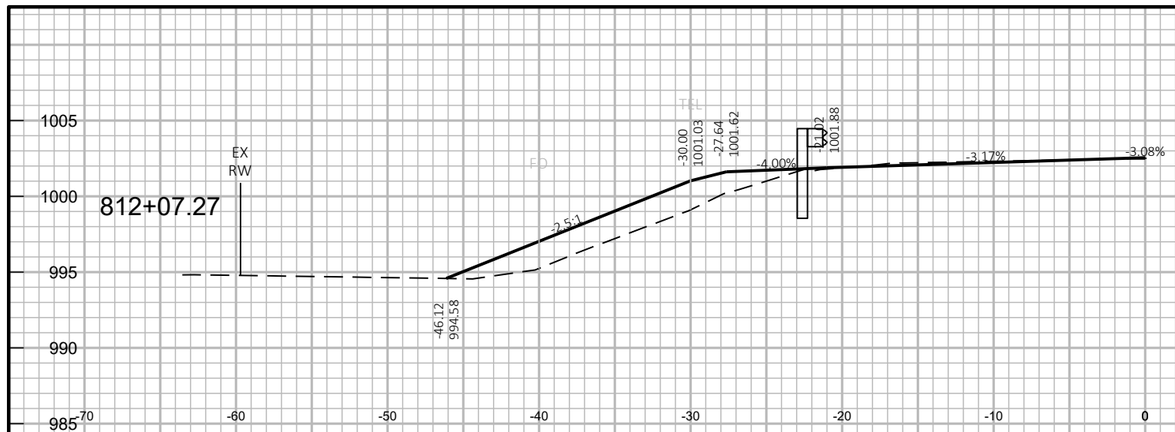


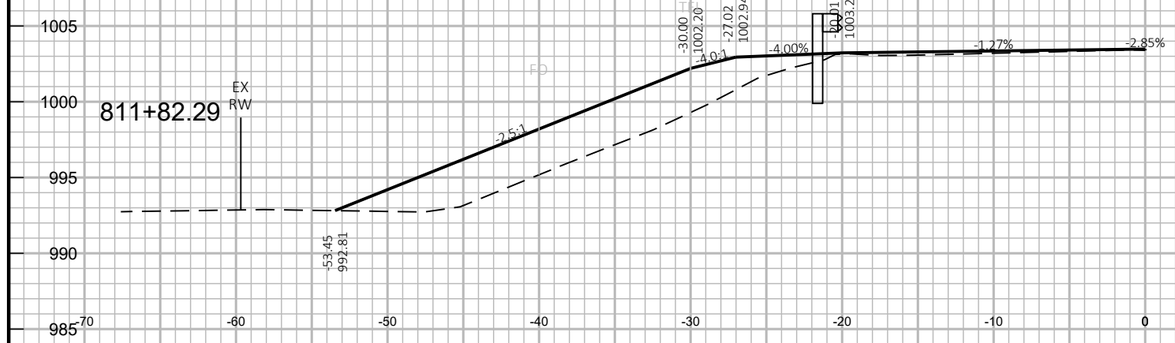
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 403 E

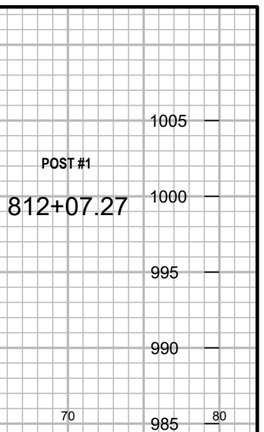
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 76

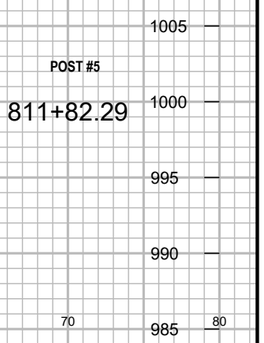
PLOT DATE : 8/1/2025 11:35 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

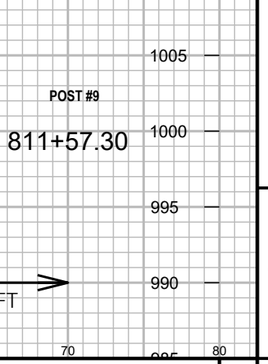
WISDOT/CADDS SHEET 49











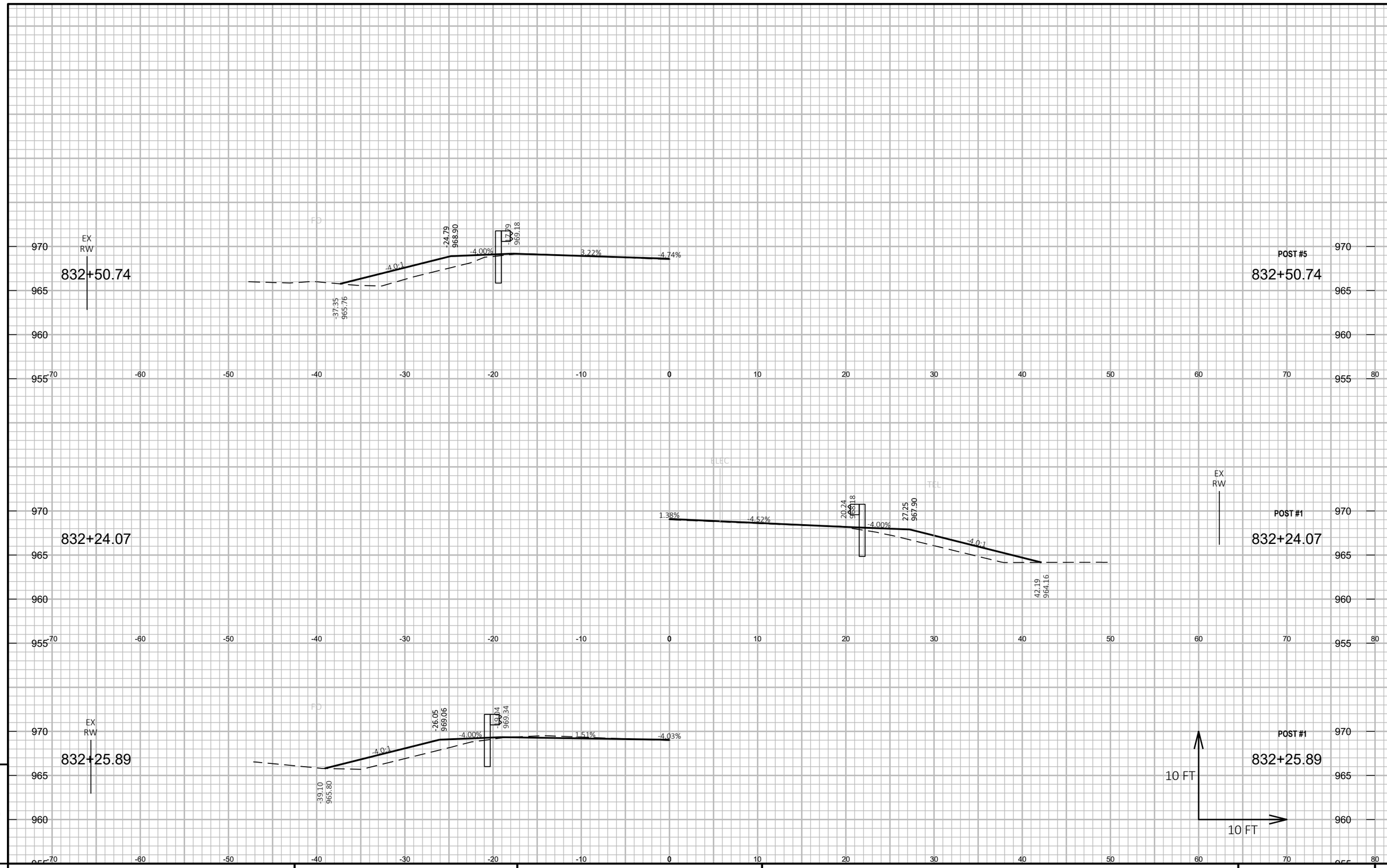
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 404	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 77

PLOT DATE : 8/1/2025 11:35 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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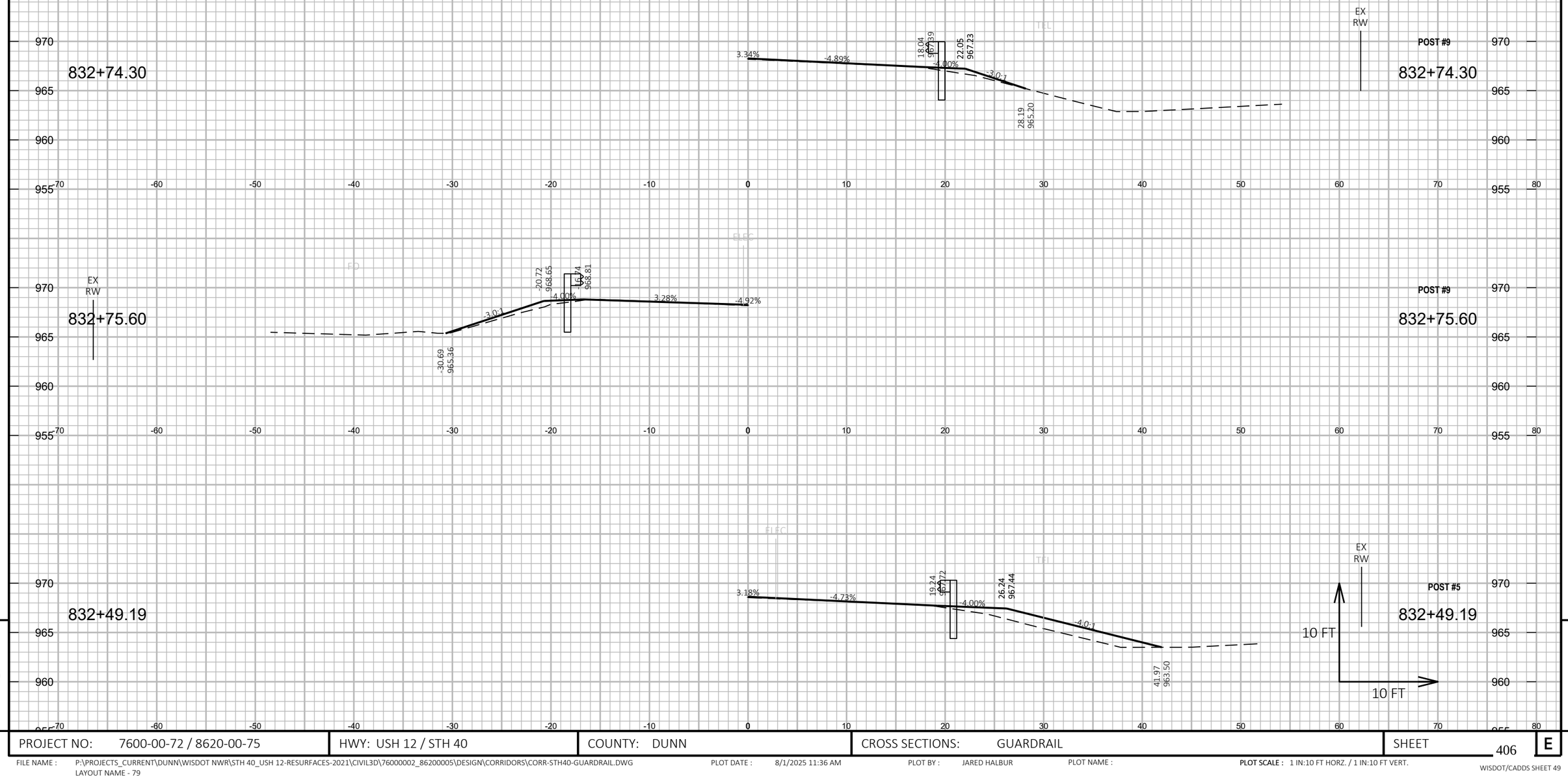
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 405	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 78

PLOT DATE : 8/1/2025 11:35 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

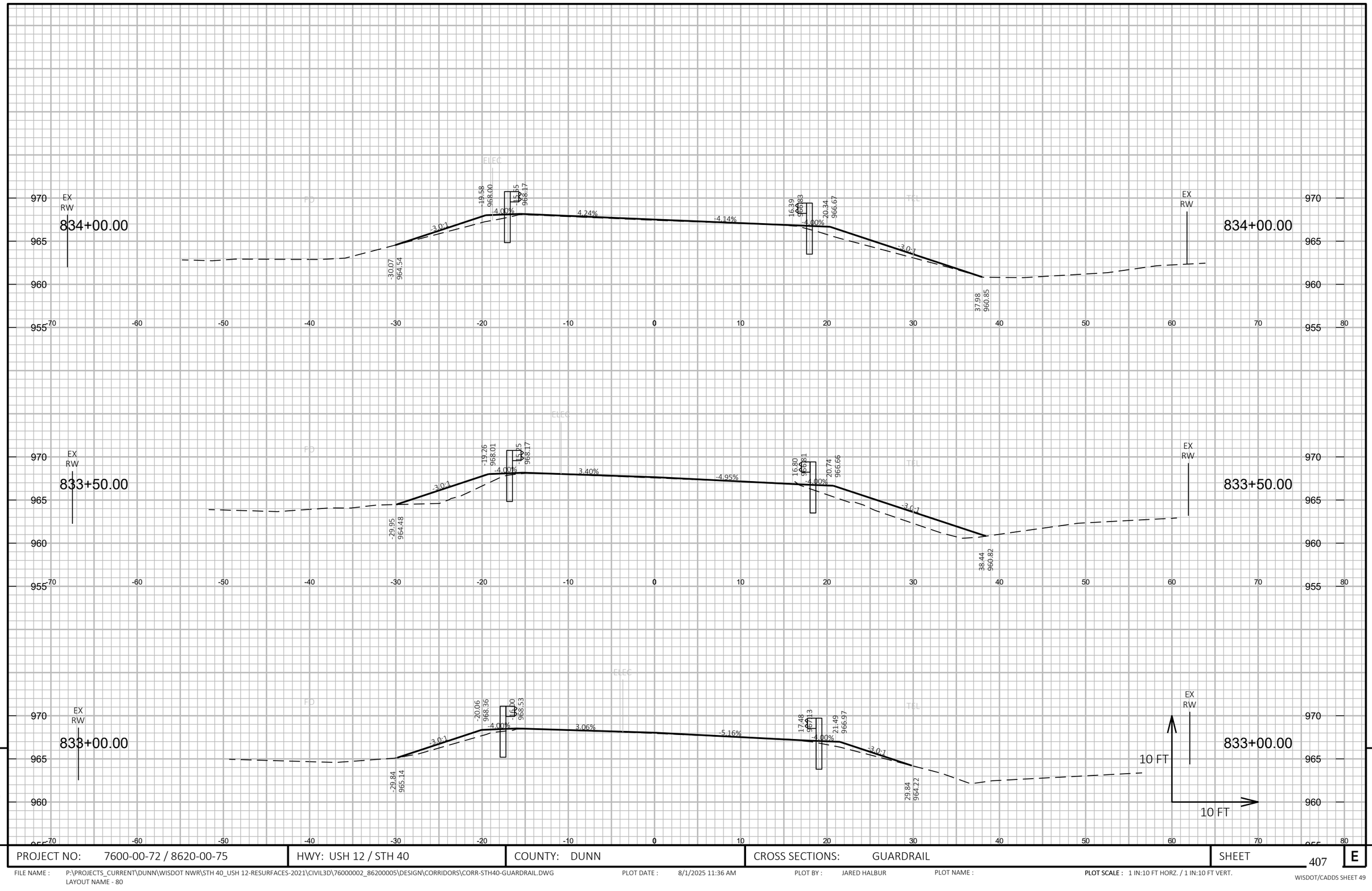
WISDOT/CADDS SHEET 49



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 406	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 79

PLOT DATE : 8/1/2025 11:36 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



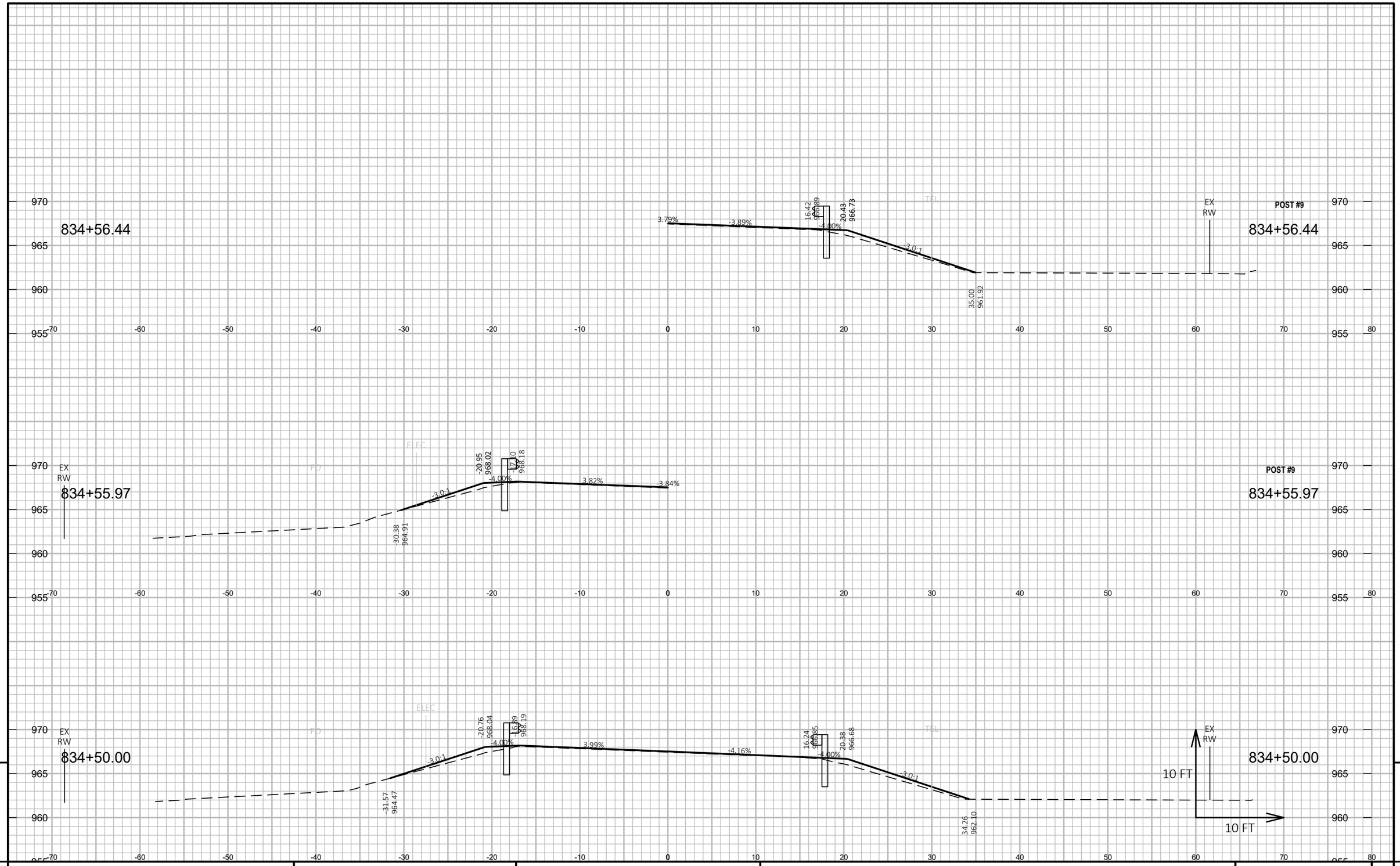
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 407	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 80

PLOT DATE : 8/1/2025 11:36 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

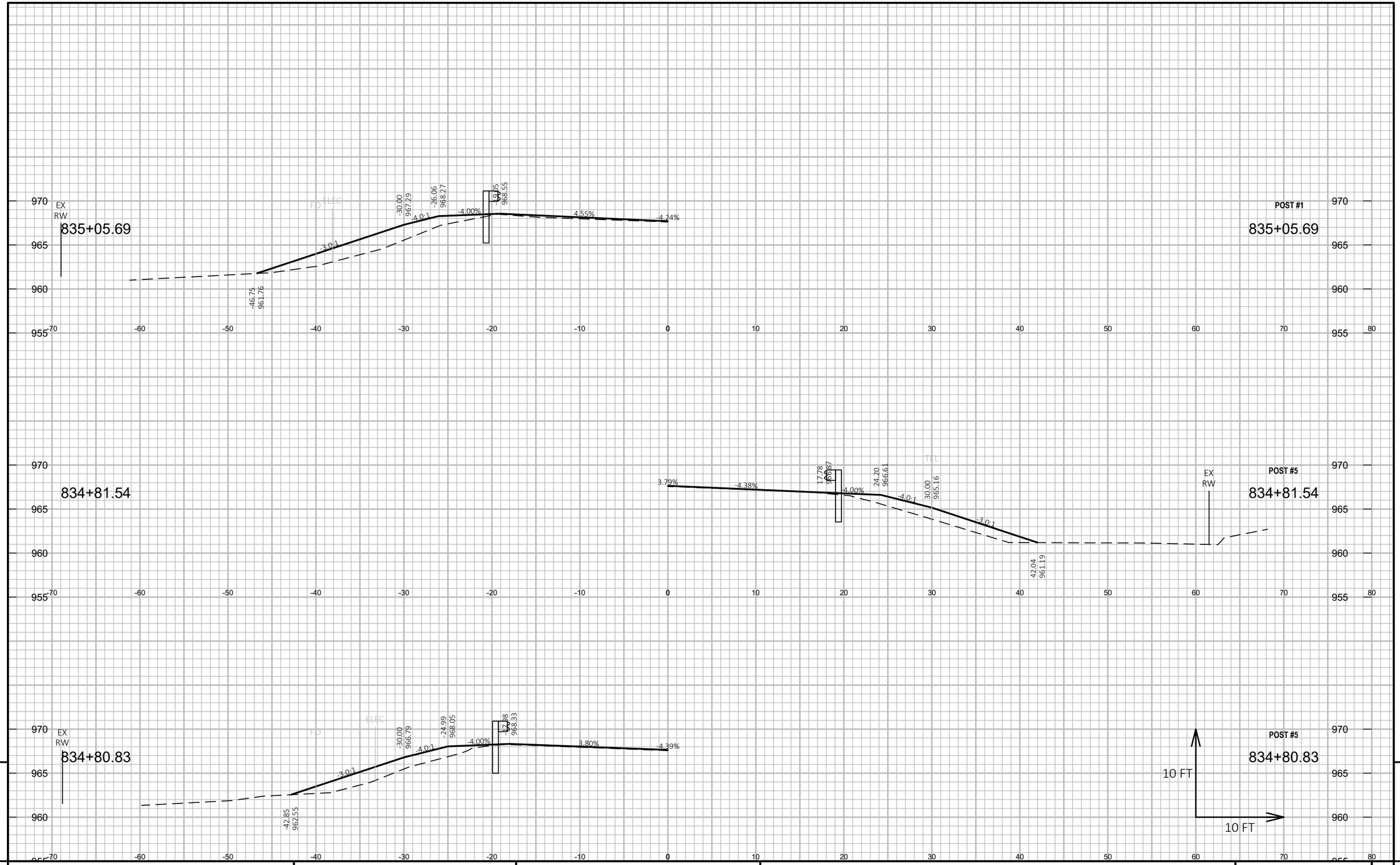
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 408	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 81

PLOT DATE : 8/1/2025 11:36 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 409	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 82

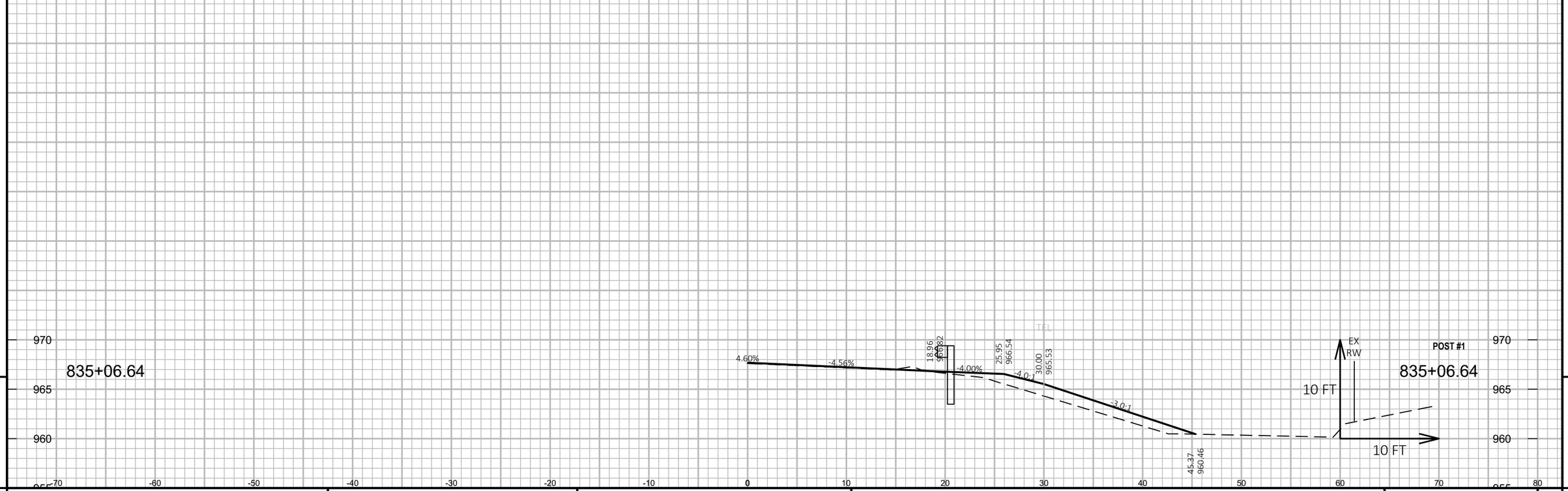
PLOT DATE : 8/1/2025 11:36 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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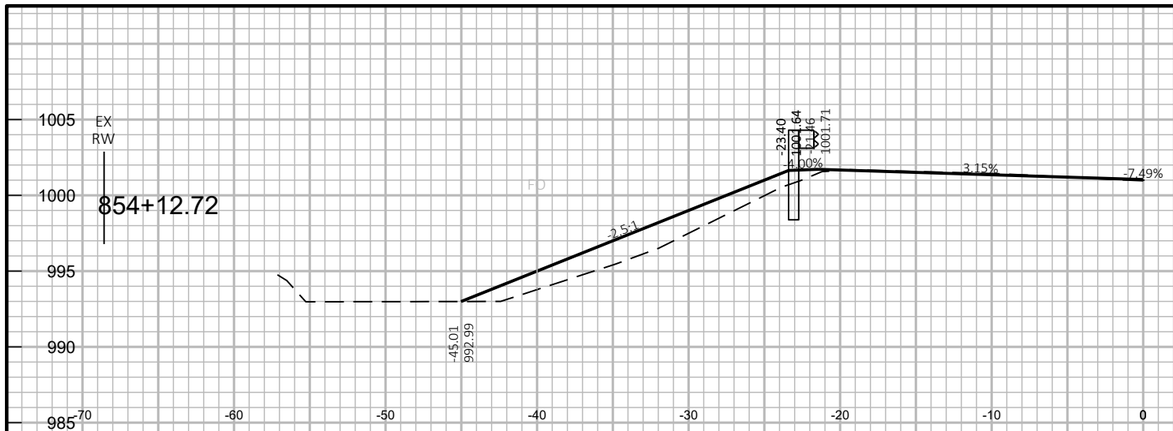
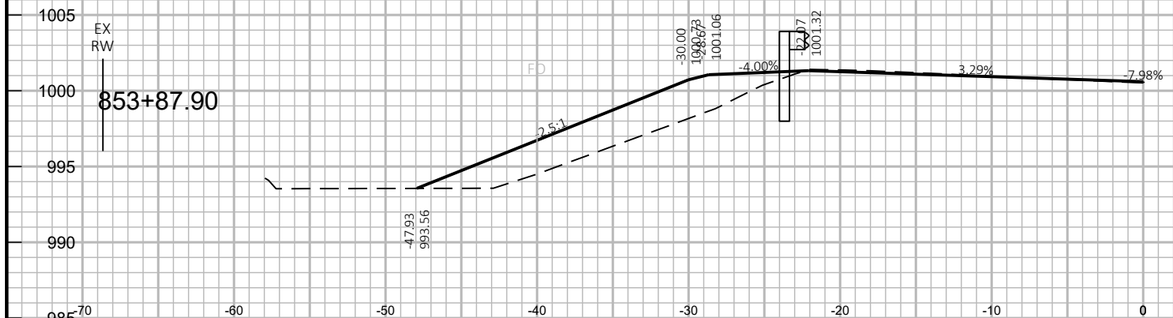
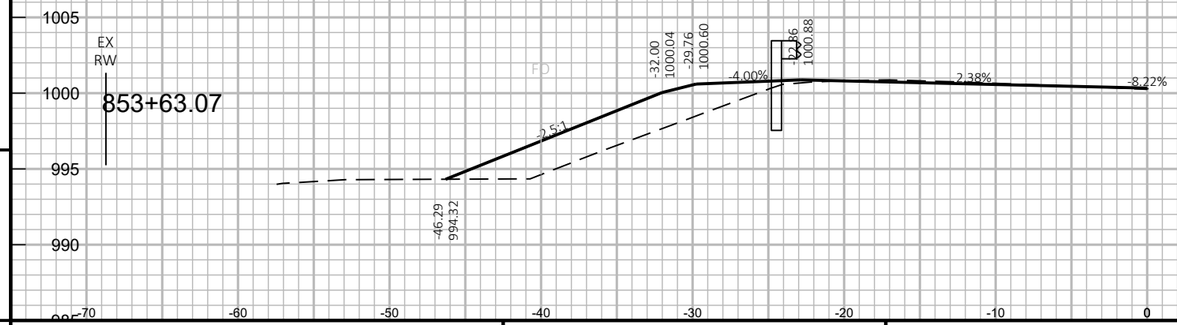
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 410	E

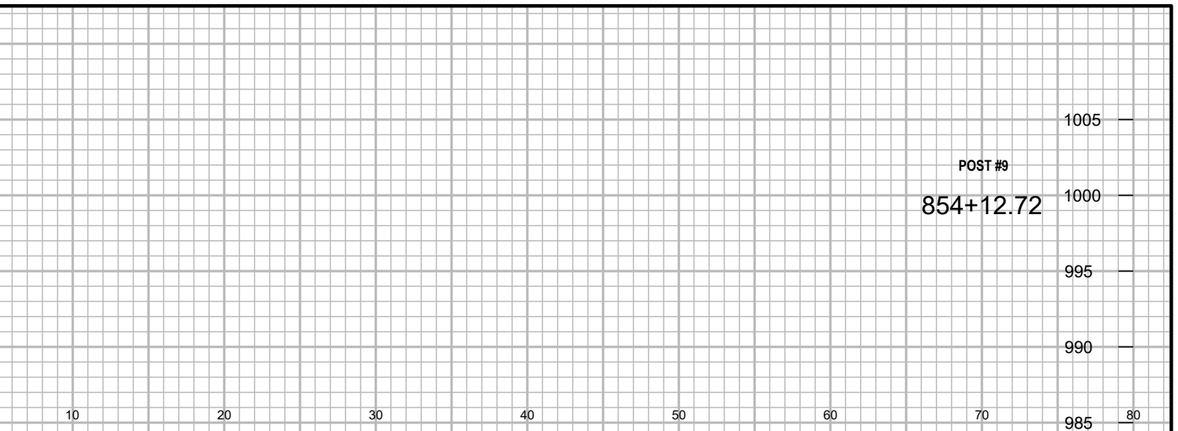
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 83

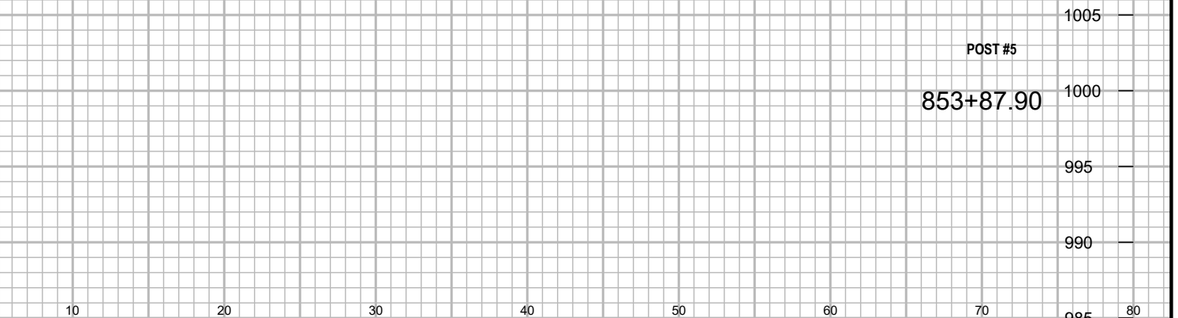
PLOT DATE : 8/1/2025 11:36 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

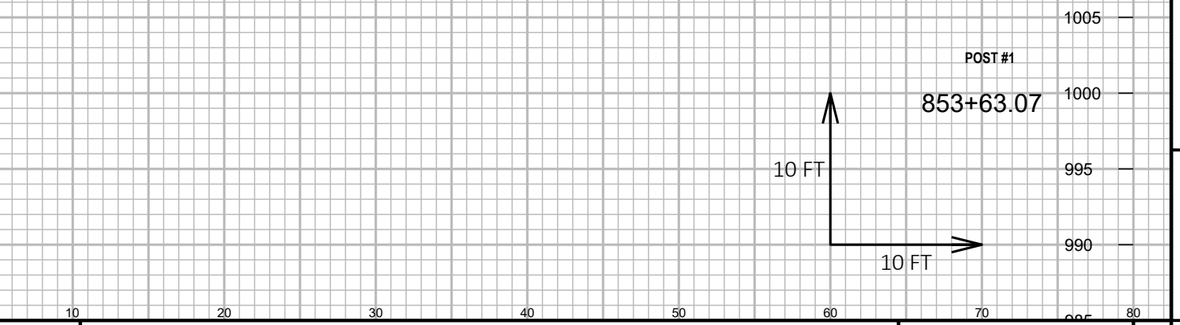












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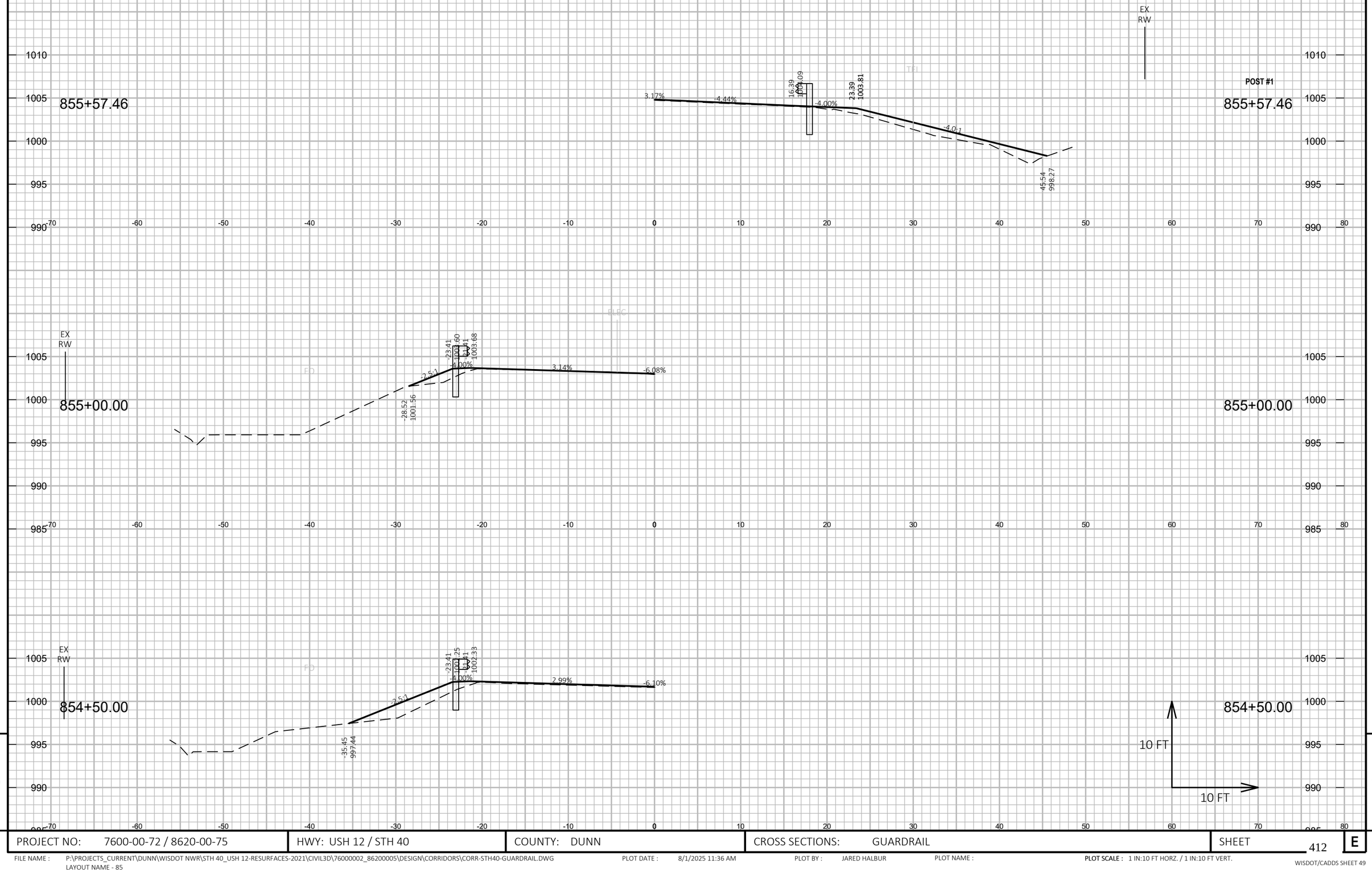
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 411	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 84

PLOT DATE : 8/1/2025 11:36 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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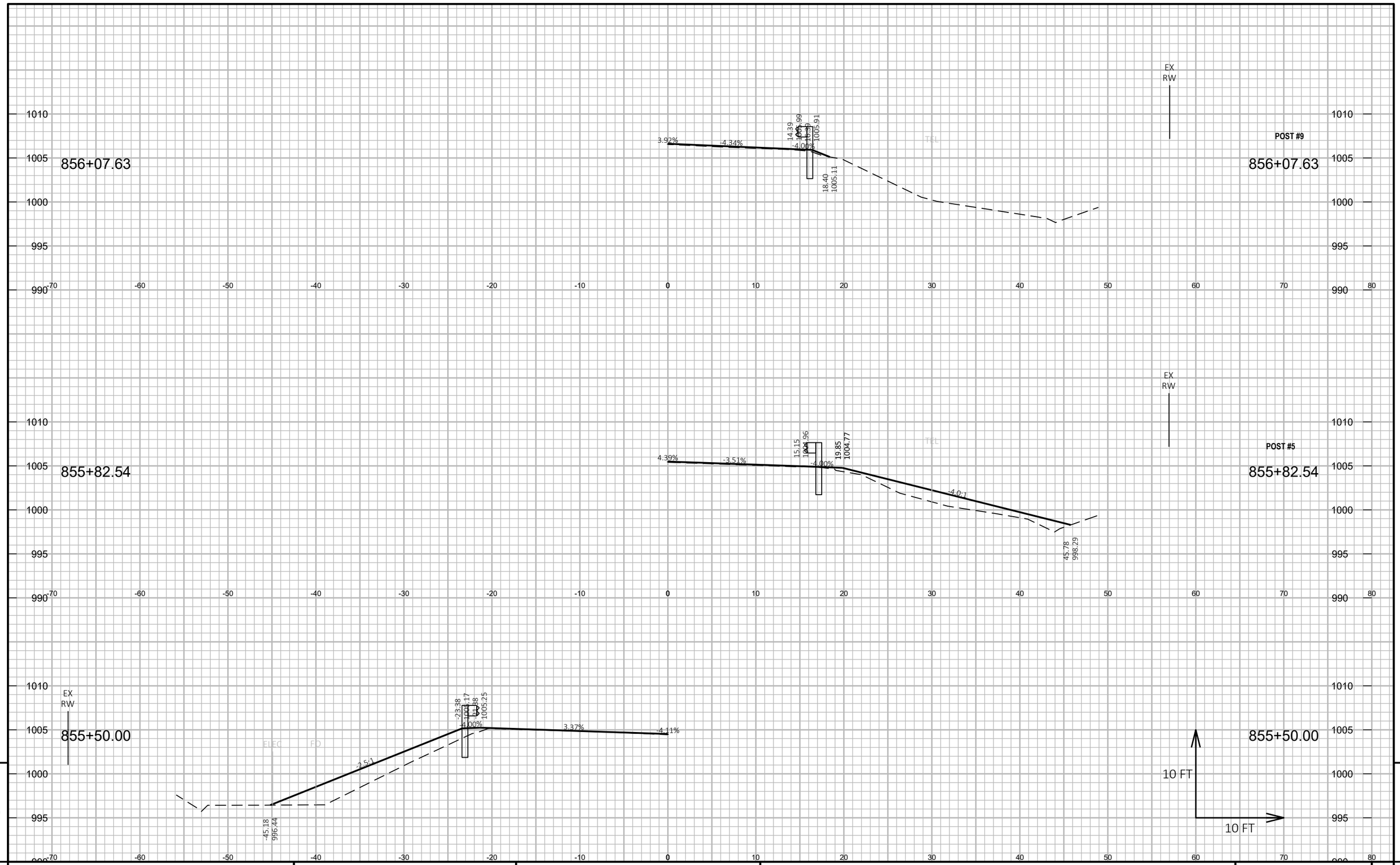
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 412 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 85

PLOT DATE : 8/1/2025 11:36 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

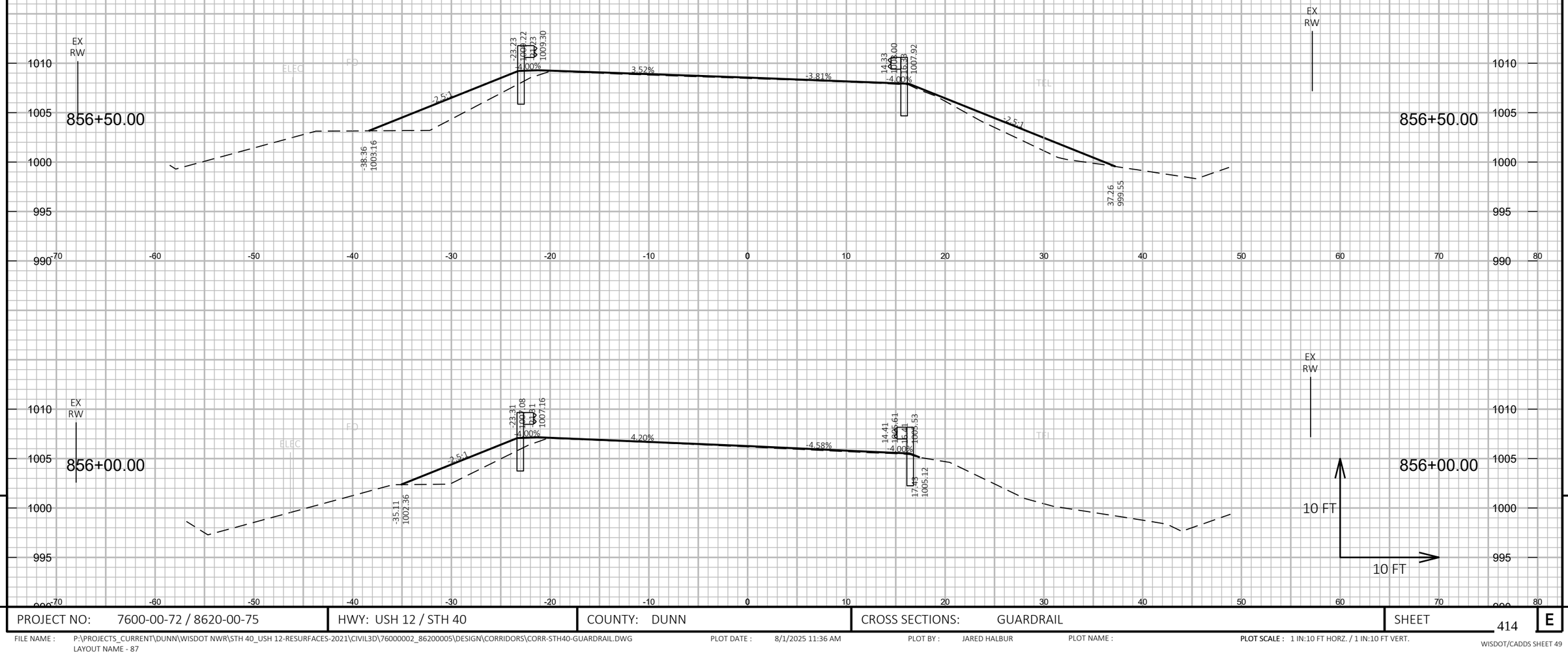


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 413	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 86

PLOT DATE : 8/1/2025 11:36 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 414	E

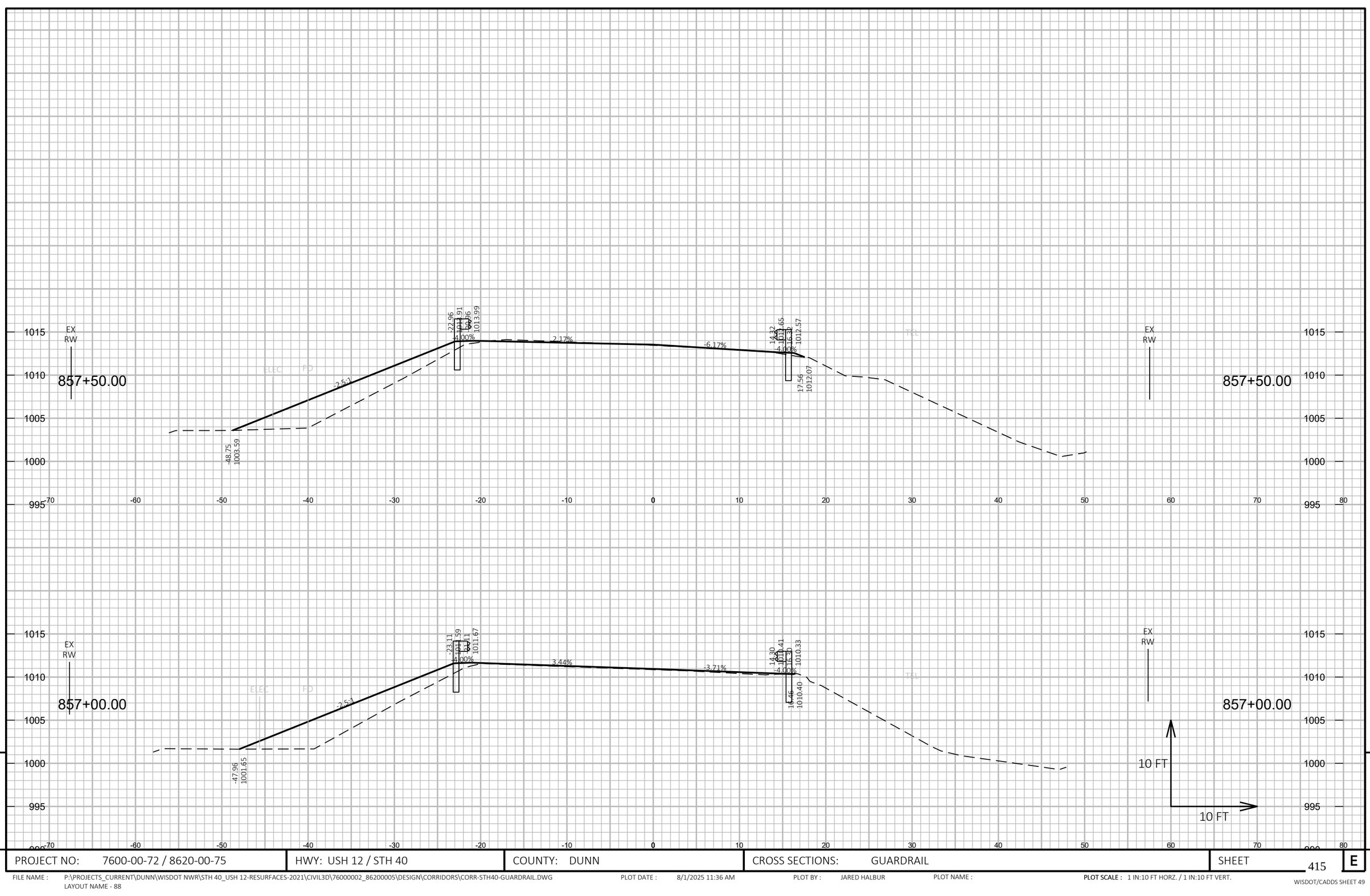
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 87

PLOT DATE : 8/1/2025 11:36 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 415	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 88

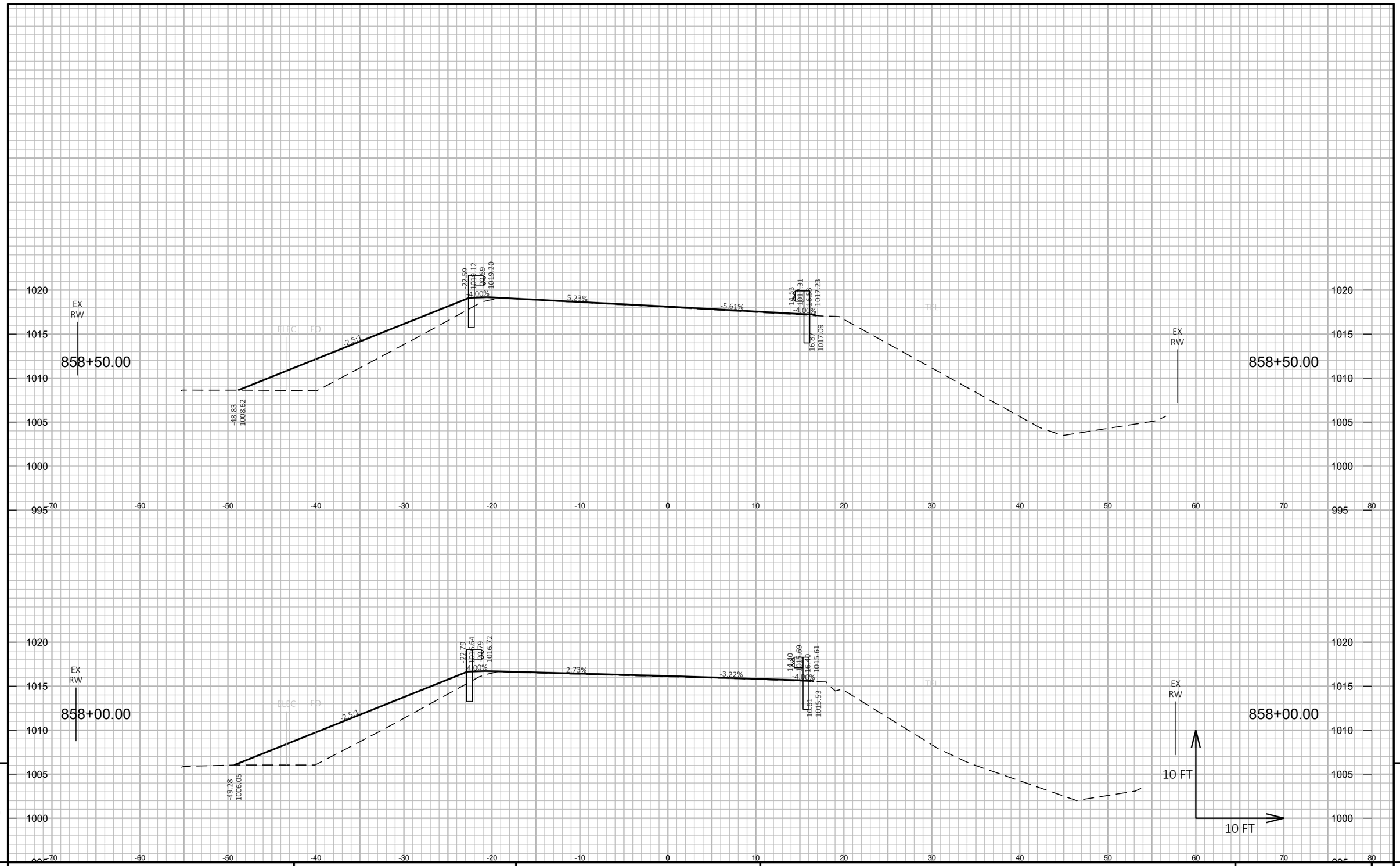
PLOT DATE : 8/1/2025 11:36 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49

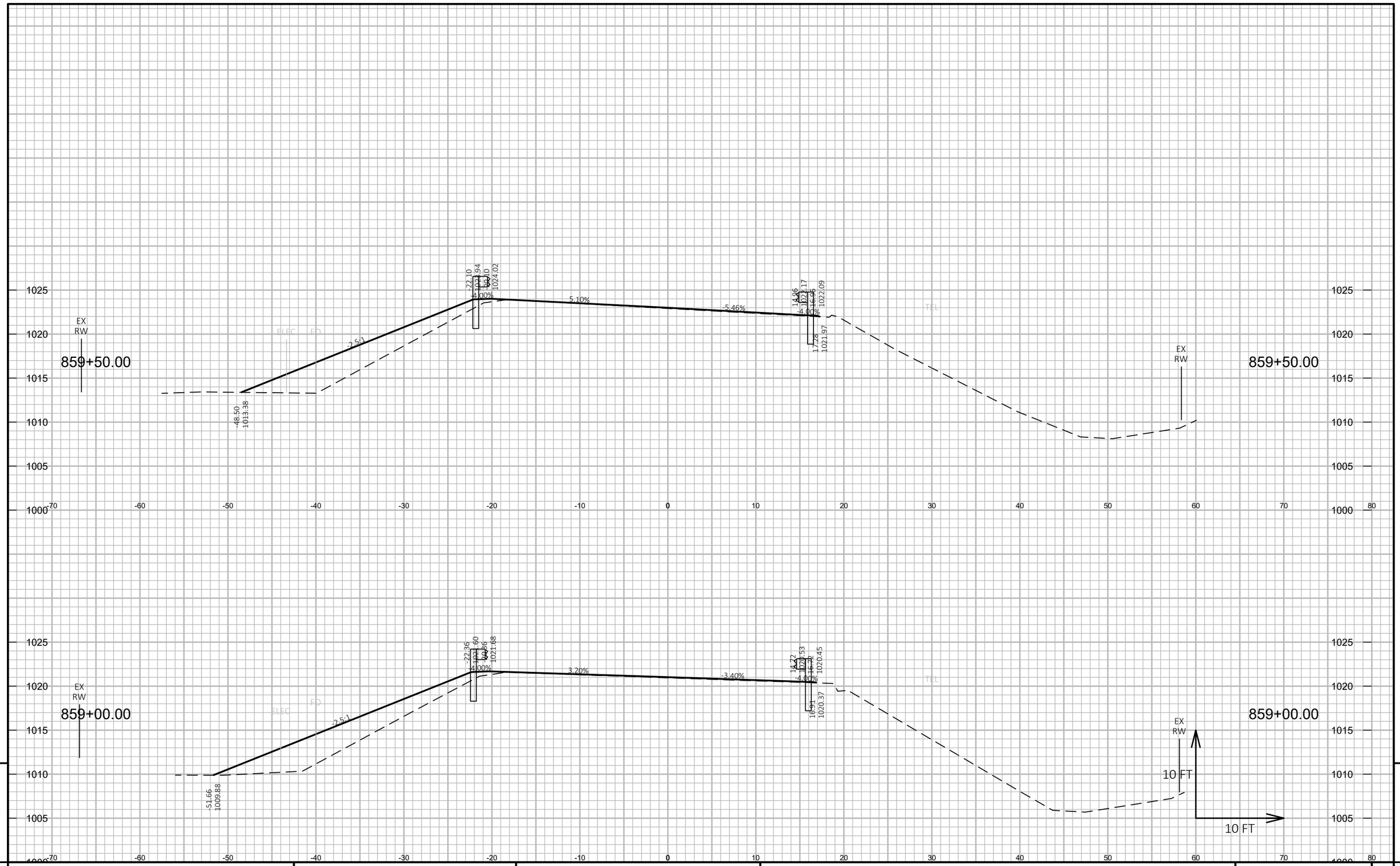


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 416	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 89

PLOT DATE : 8/1/2025 11:37 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 417	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 90

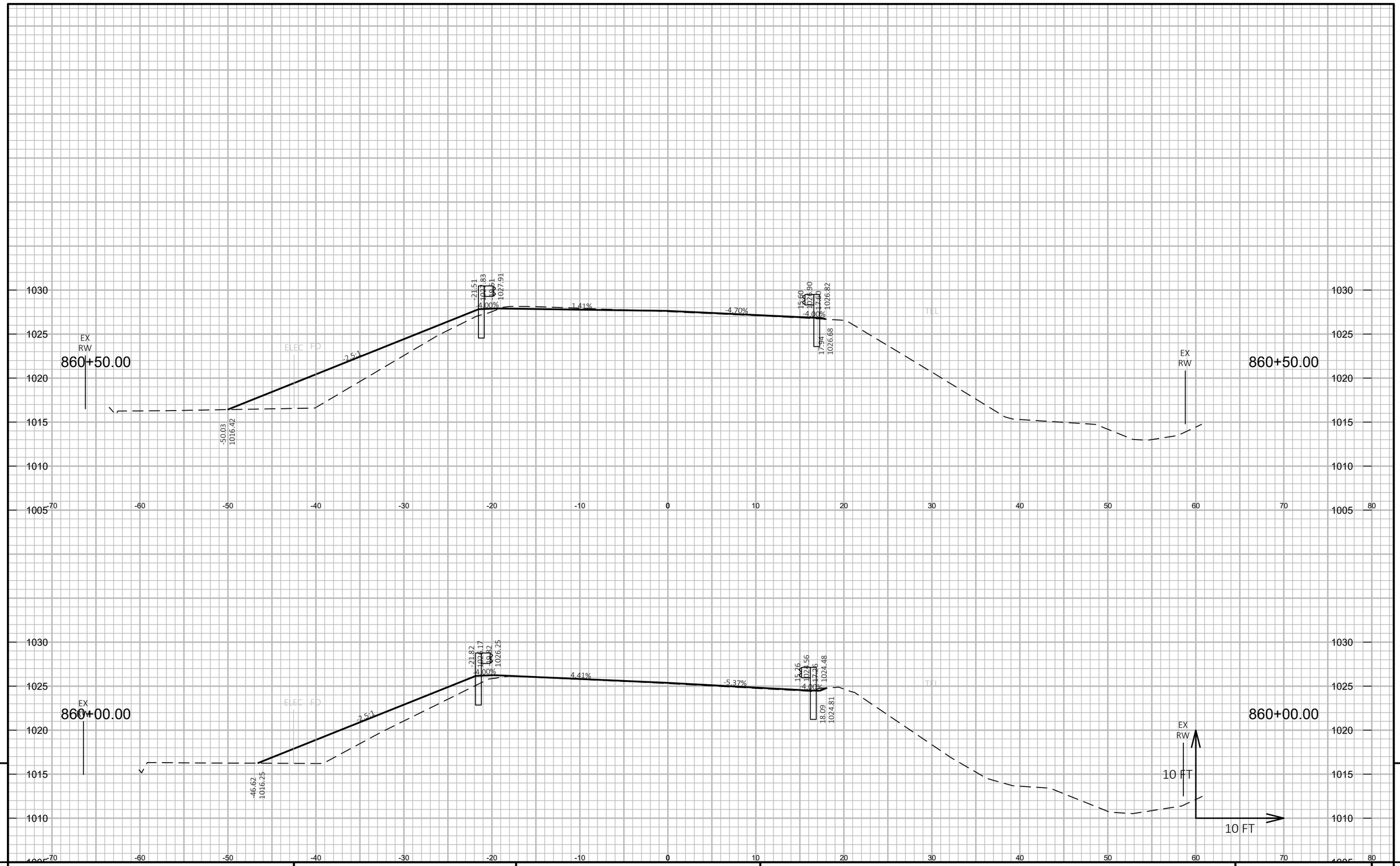
PLOT DATE : 8/1/2025 11:37 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

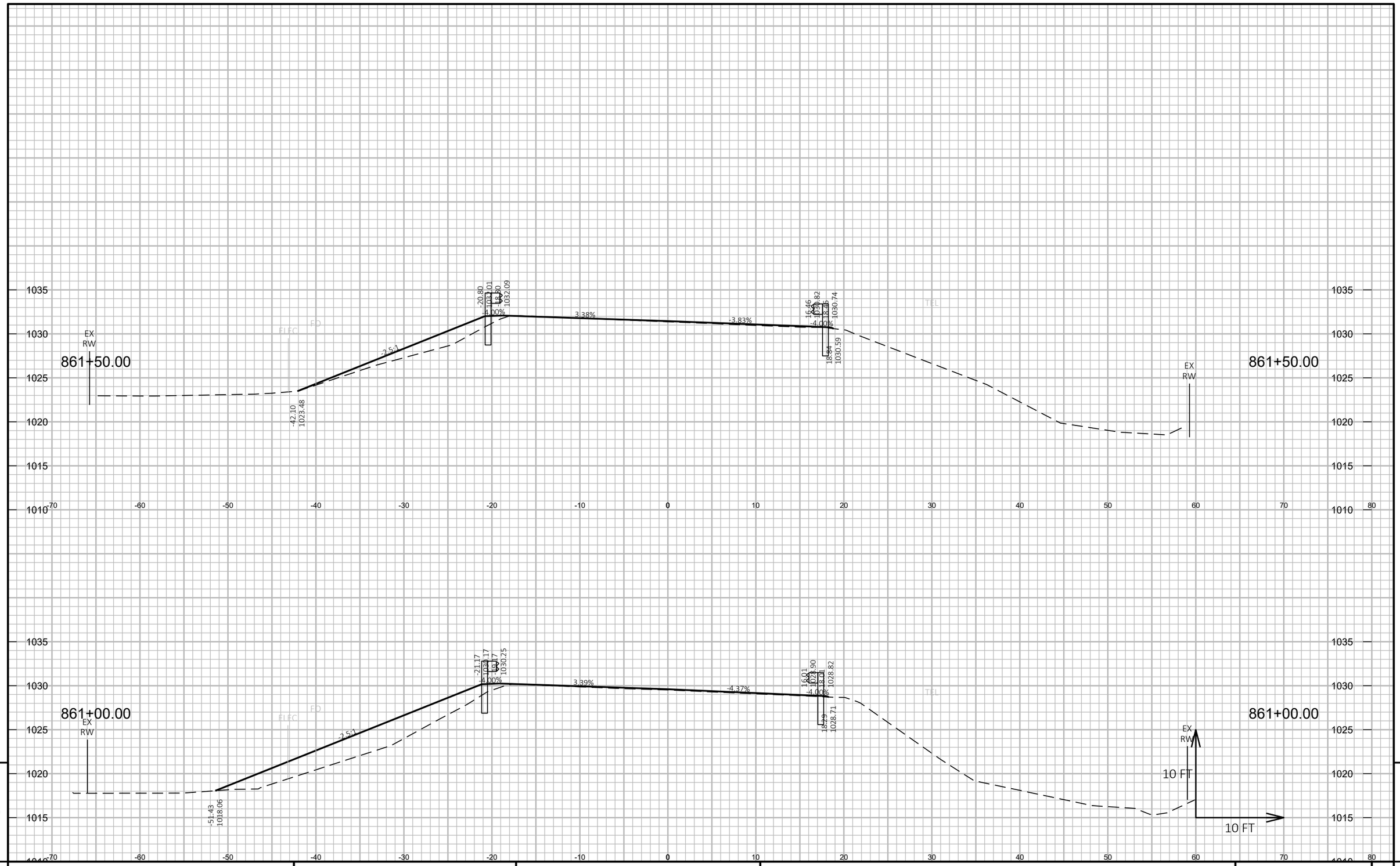
WISDOT/CADDS SHEET 49



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 418	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 91

PLOT DATE : 8/1/2025 11:37 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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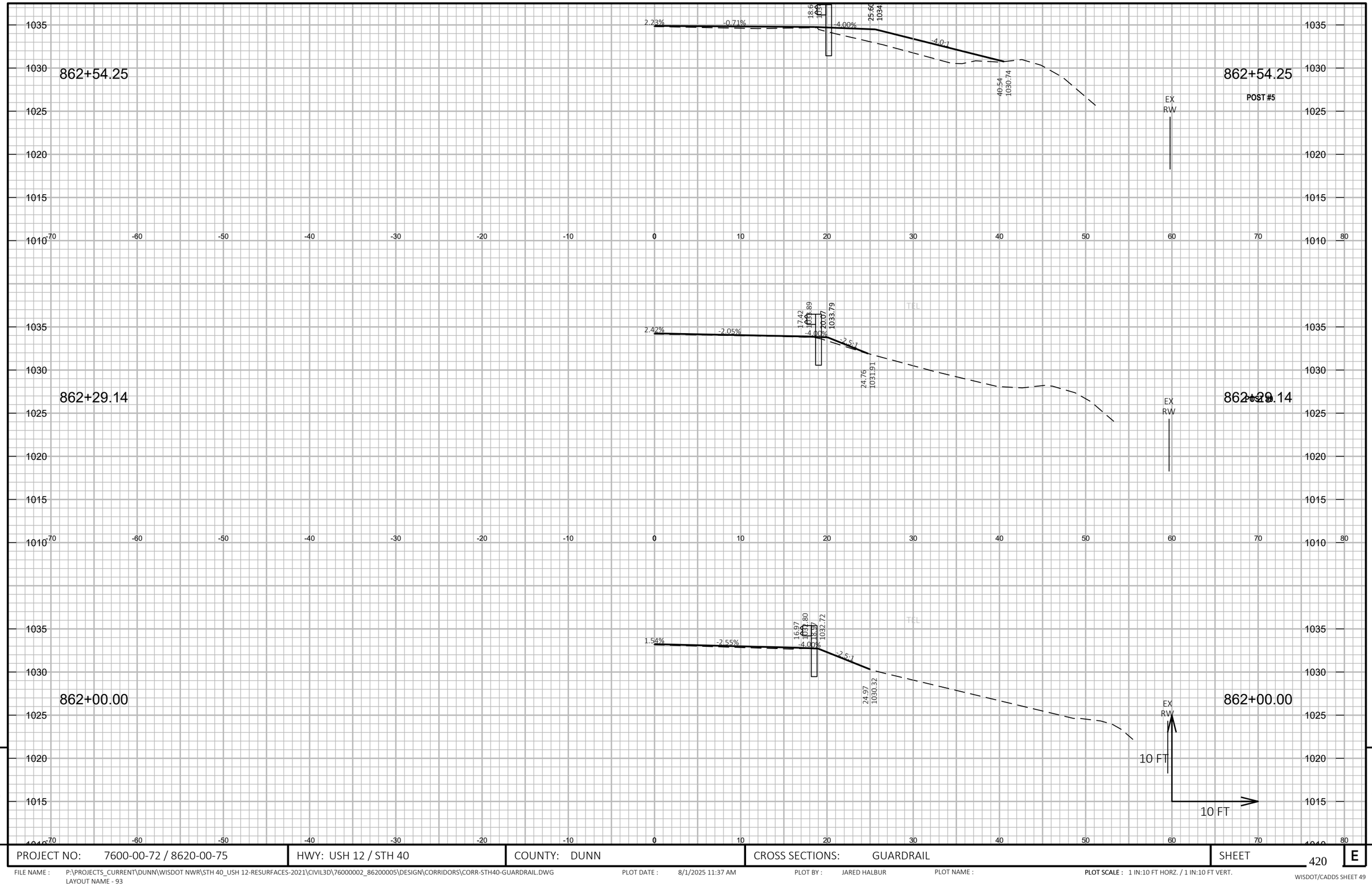
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 419	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 92

PLOT DATE : 8/1/2025 11:37 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



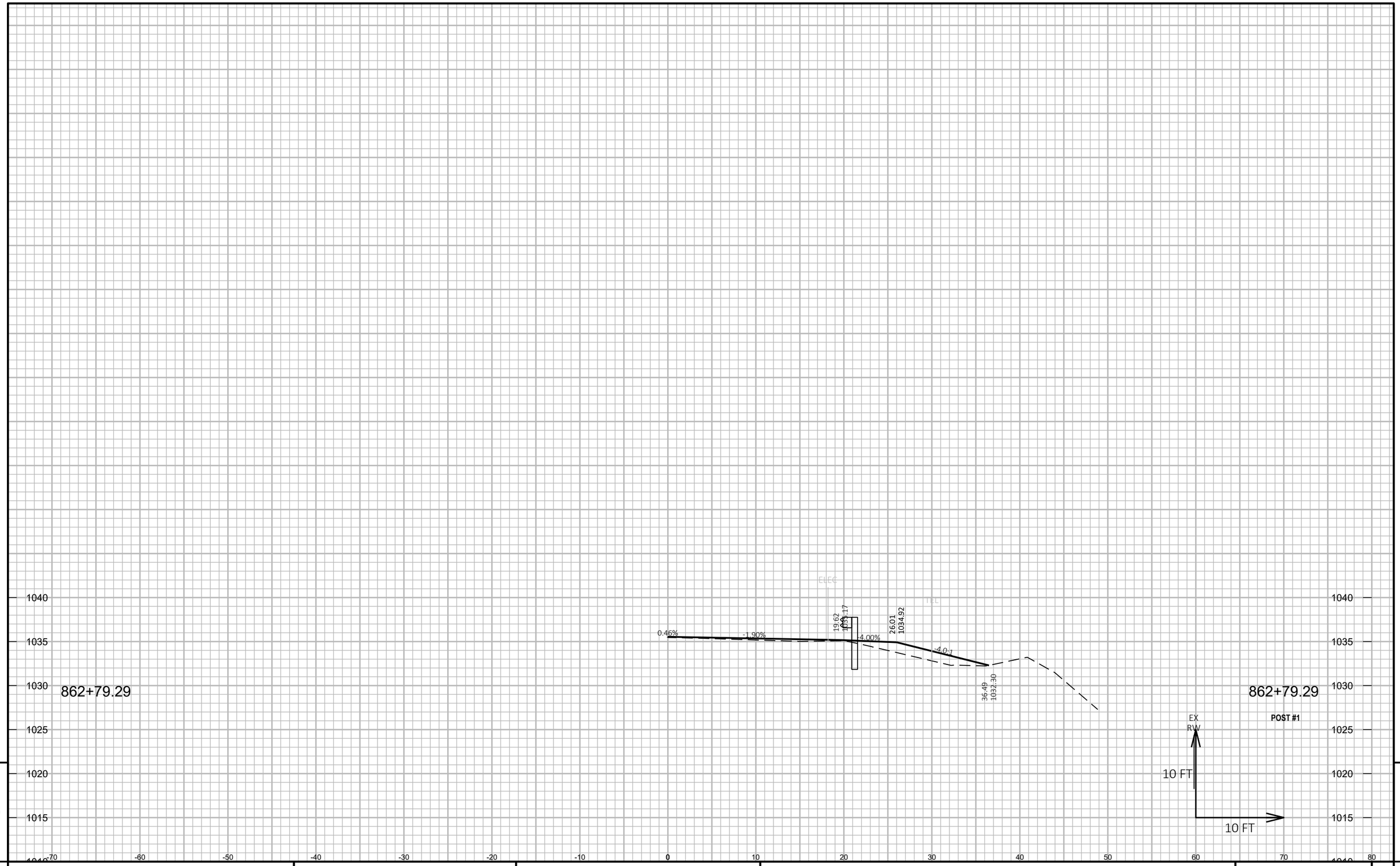
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 420	E

9

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 93

PLOT DATE : 8/1/2025 11:37 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



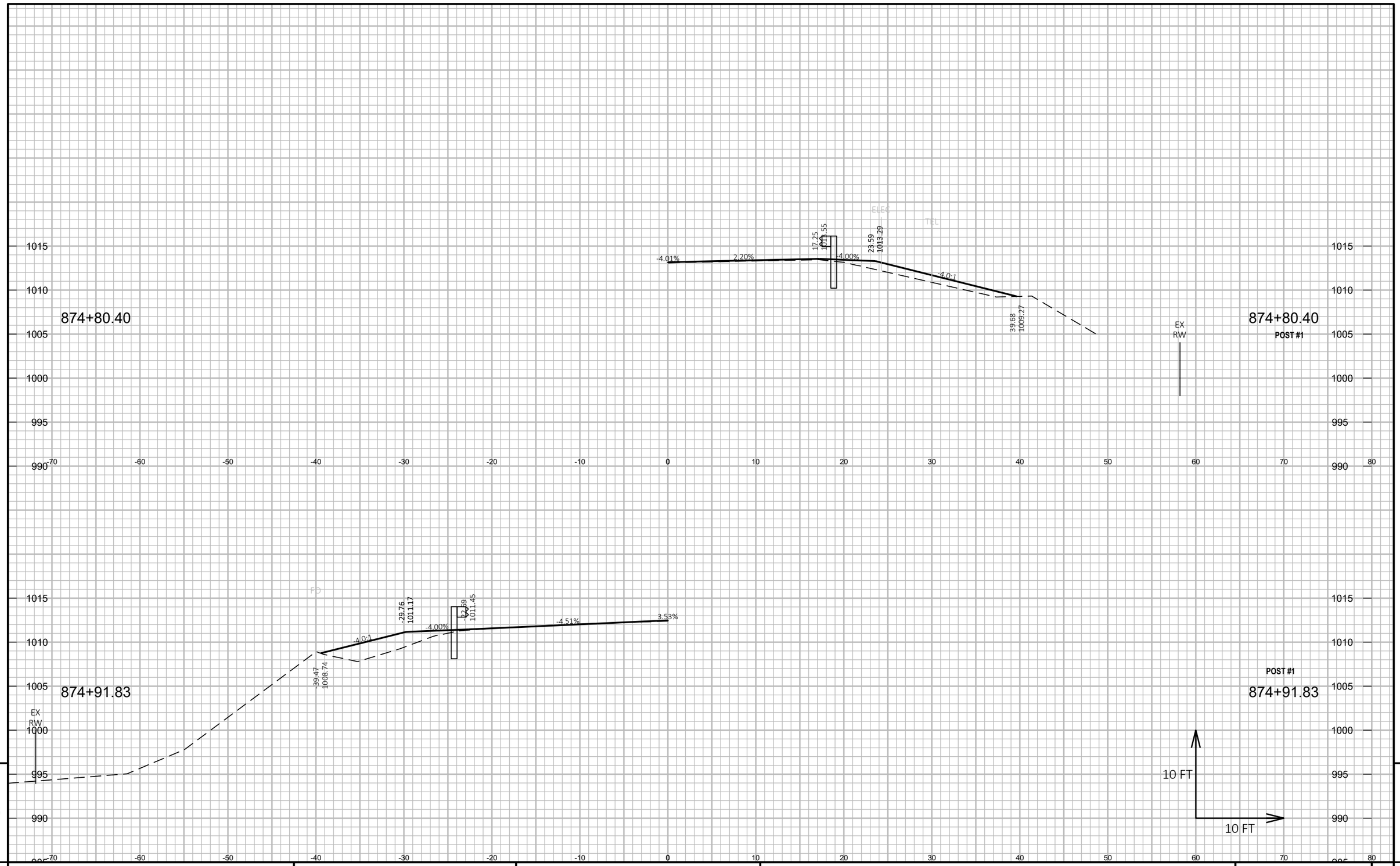
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 421	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 94

PLOT DATE : 8/1/2025 11:37 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 422	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 95

PLOT DATE : 8/1/2025 11:37 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

875+05.28

875+05.28

POST #5

-4.48%
3.69%
-4.00%
4.0:1
2.5:1
16.28
1012.35
23.29
1012.07
30.00
1010.39
38.97
1006.80
EX
RW
ELEC
TEL

875+16.96

875+16.96

POST #5

-26.51
1010.09
6.76
1010.28
-4.00%
-4.00%
3.61%
3.4:1
-41.30
1005.80
EX
10 FT
10 FT

9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 423	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 96

PLOT DATE : 8/1/2025 11:37 AM

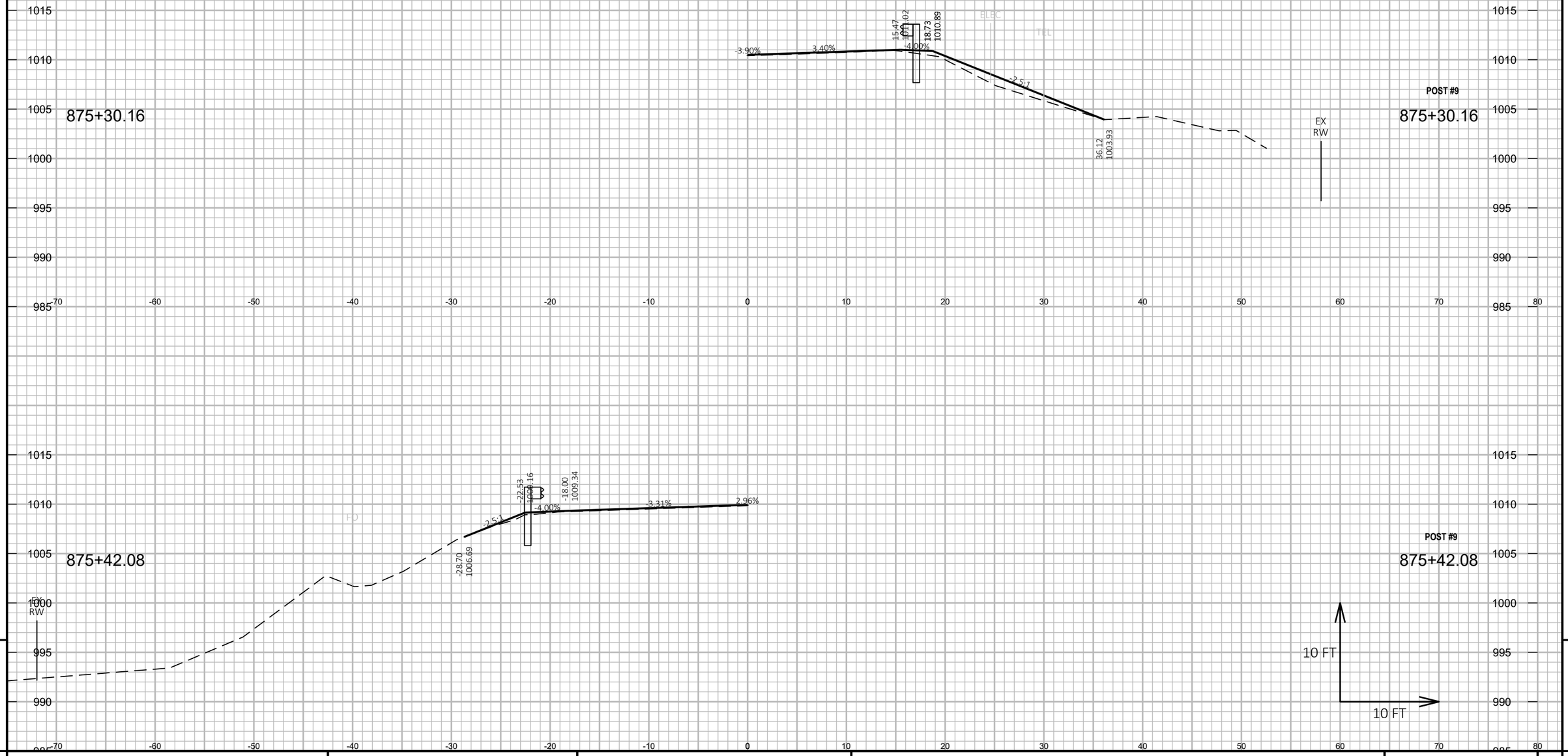
PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49

875+30.16

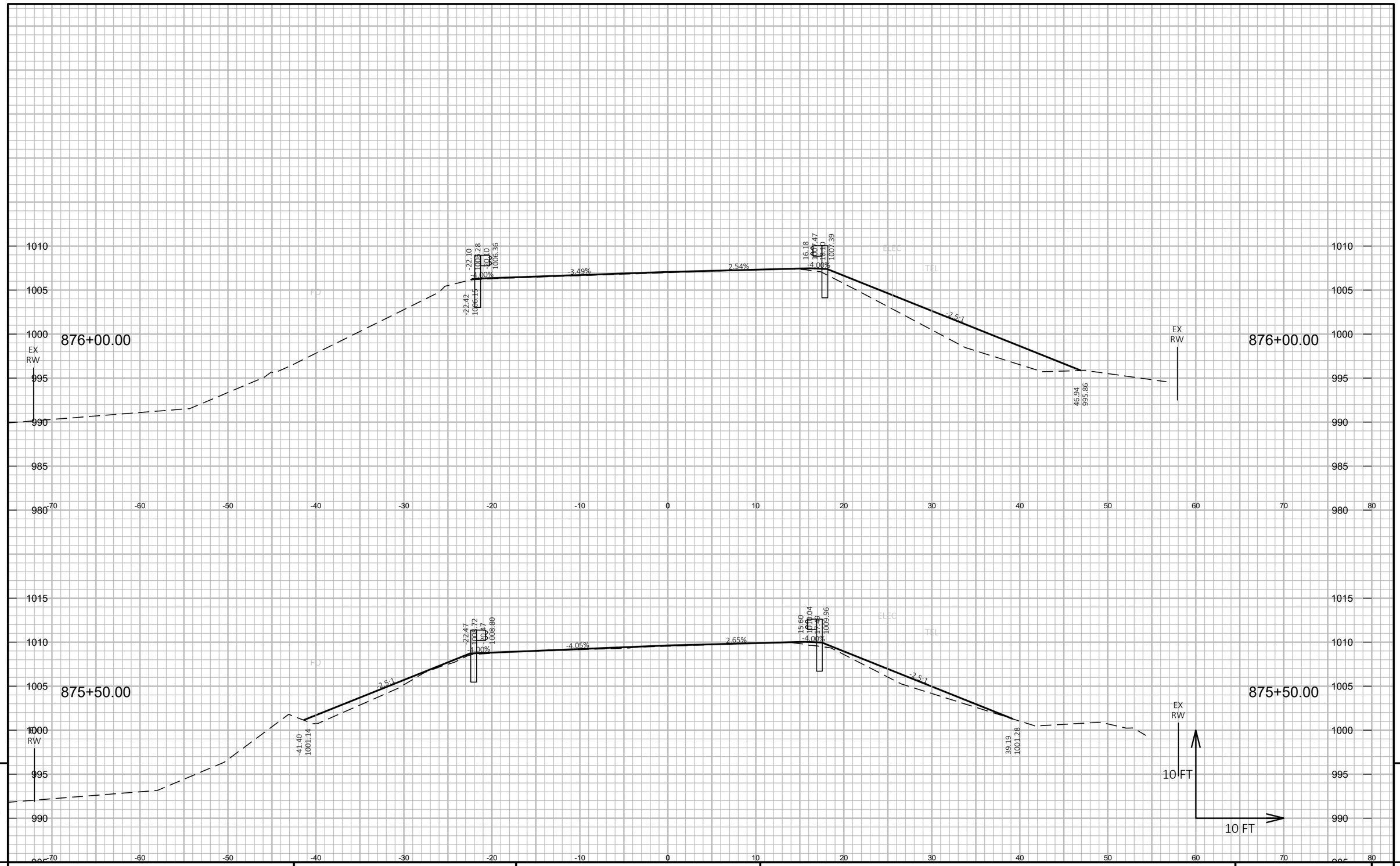


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 424	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 97

PLOT DATE : 8/1/2025 11:37 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



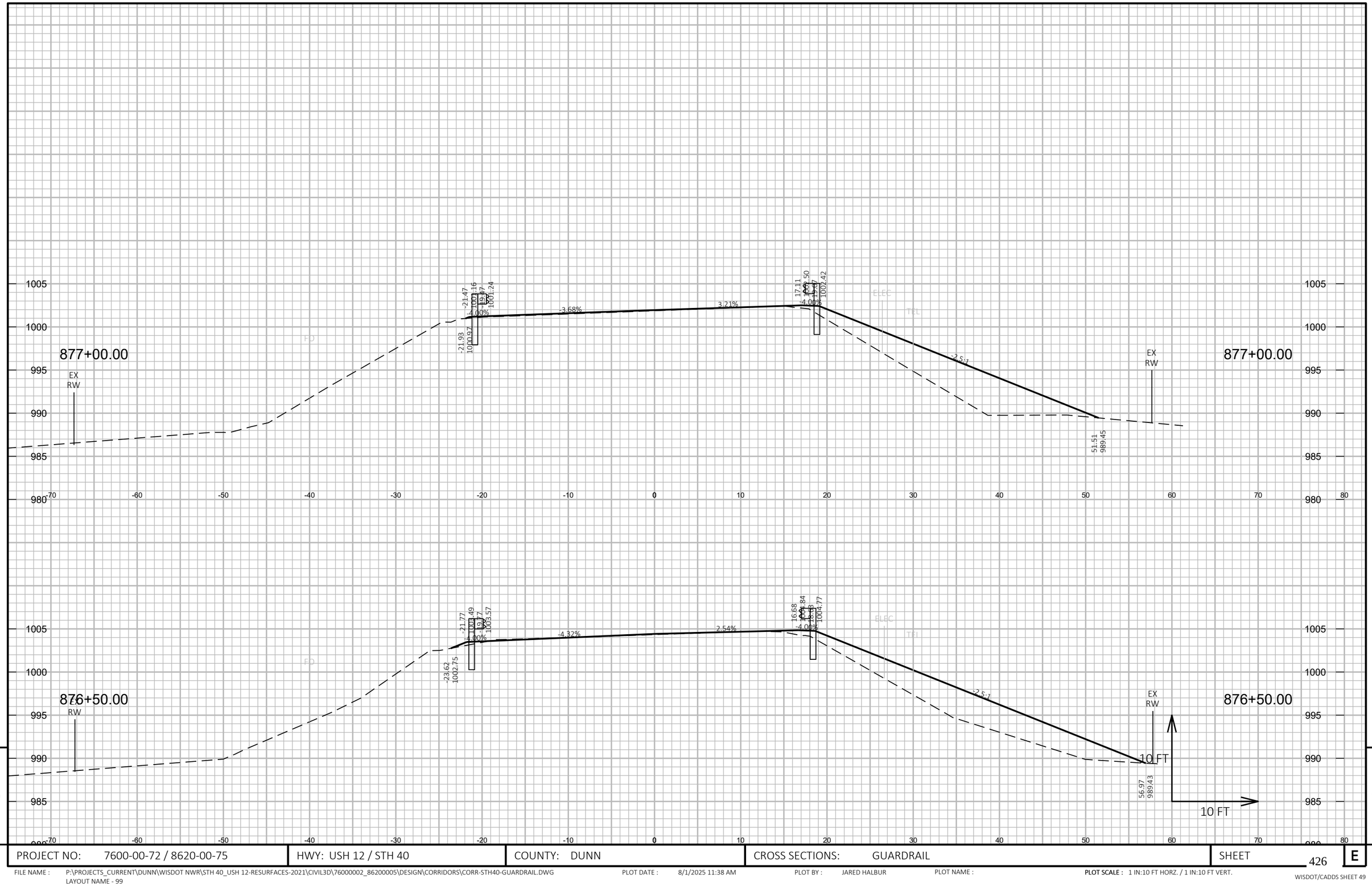
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 425	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 98

PLOT DATE : 8/1/2025 11:38 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

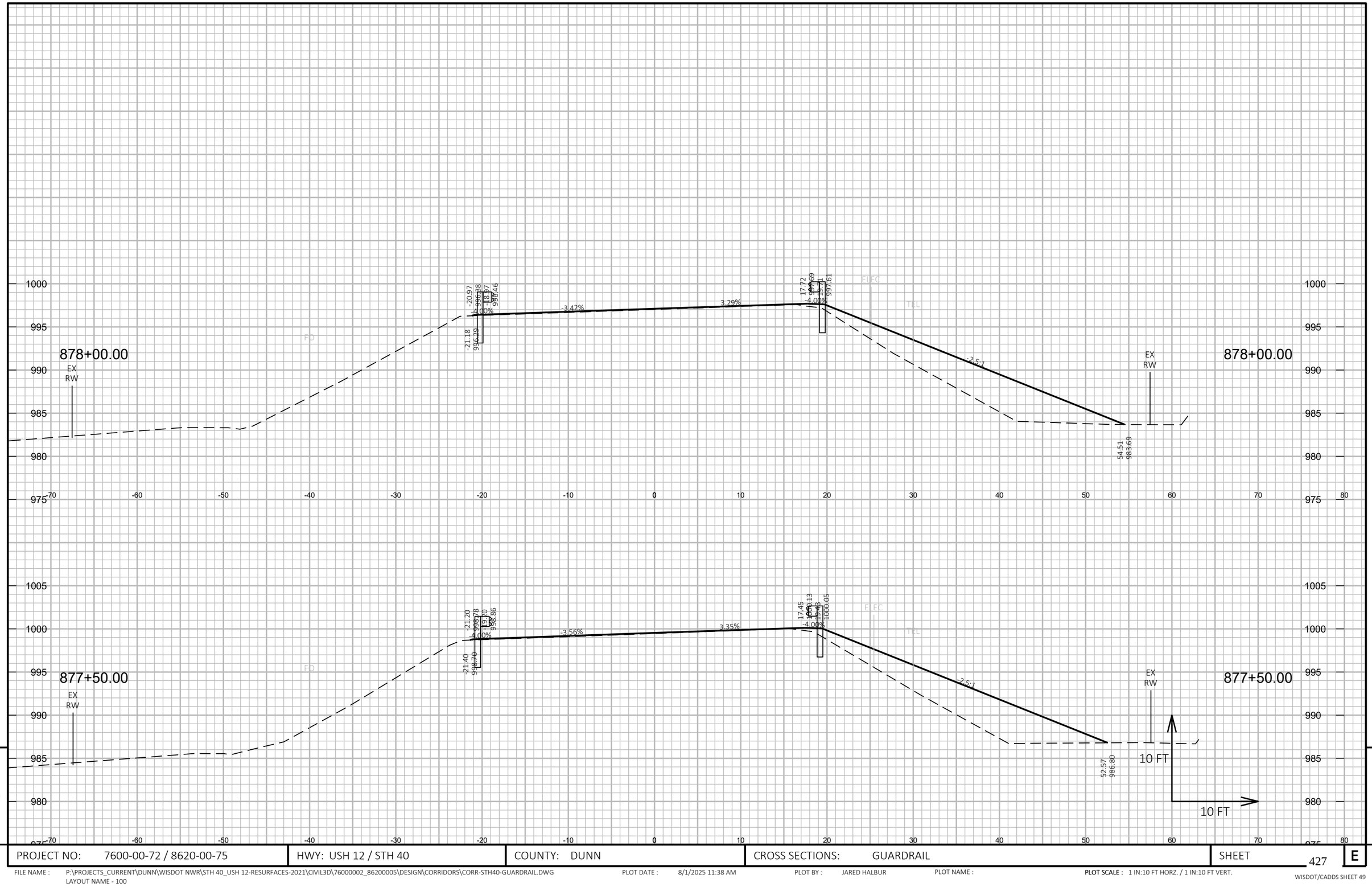


9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 426	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 99

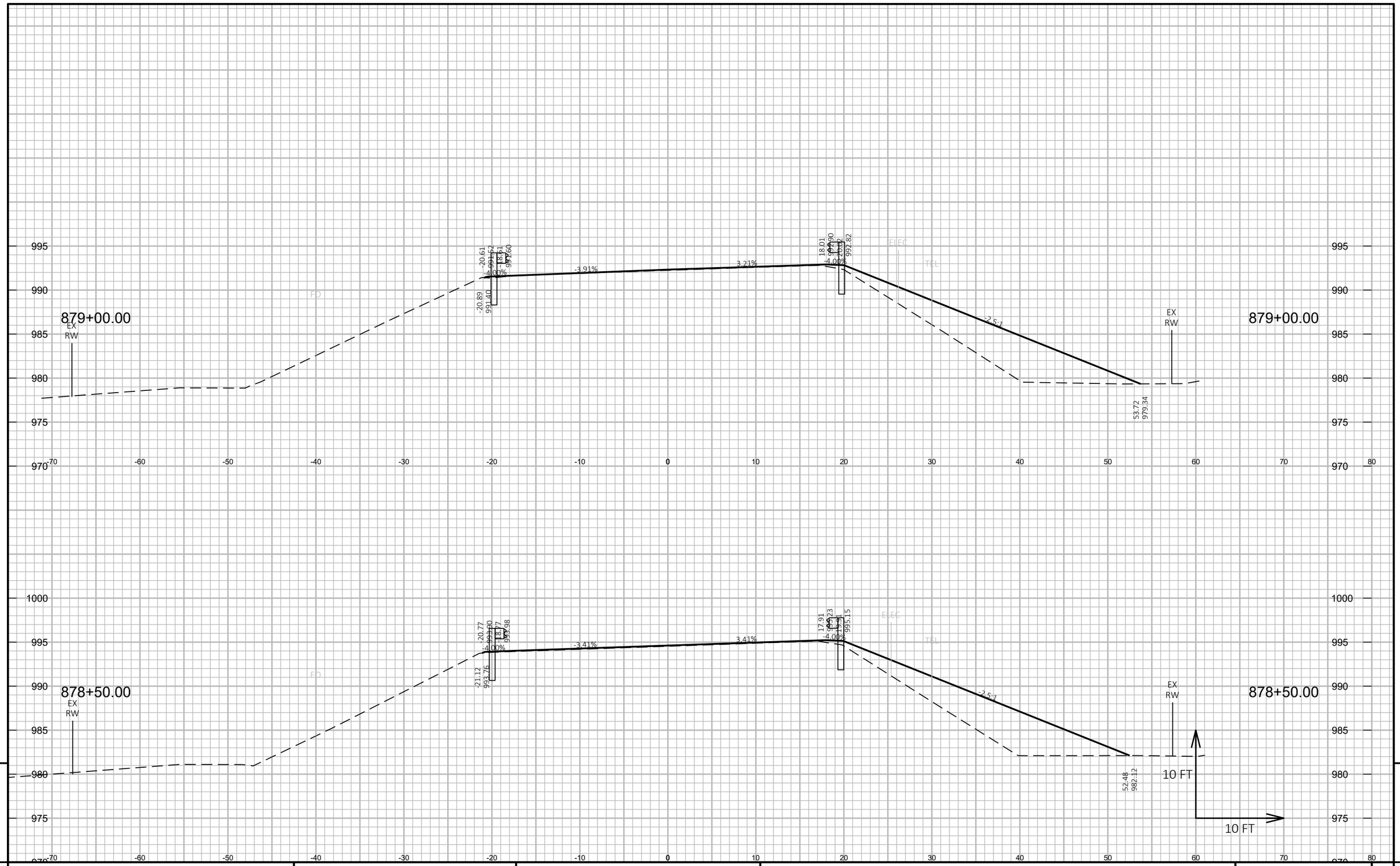
PLOT DATE : 8/1/2025 11:38 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 427	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 100

PLOT DATE : 8/1/2025 11:38 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

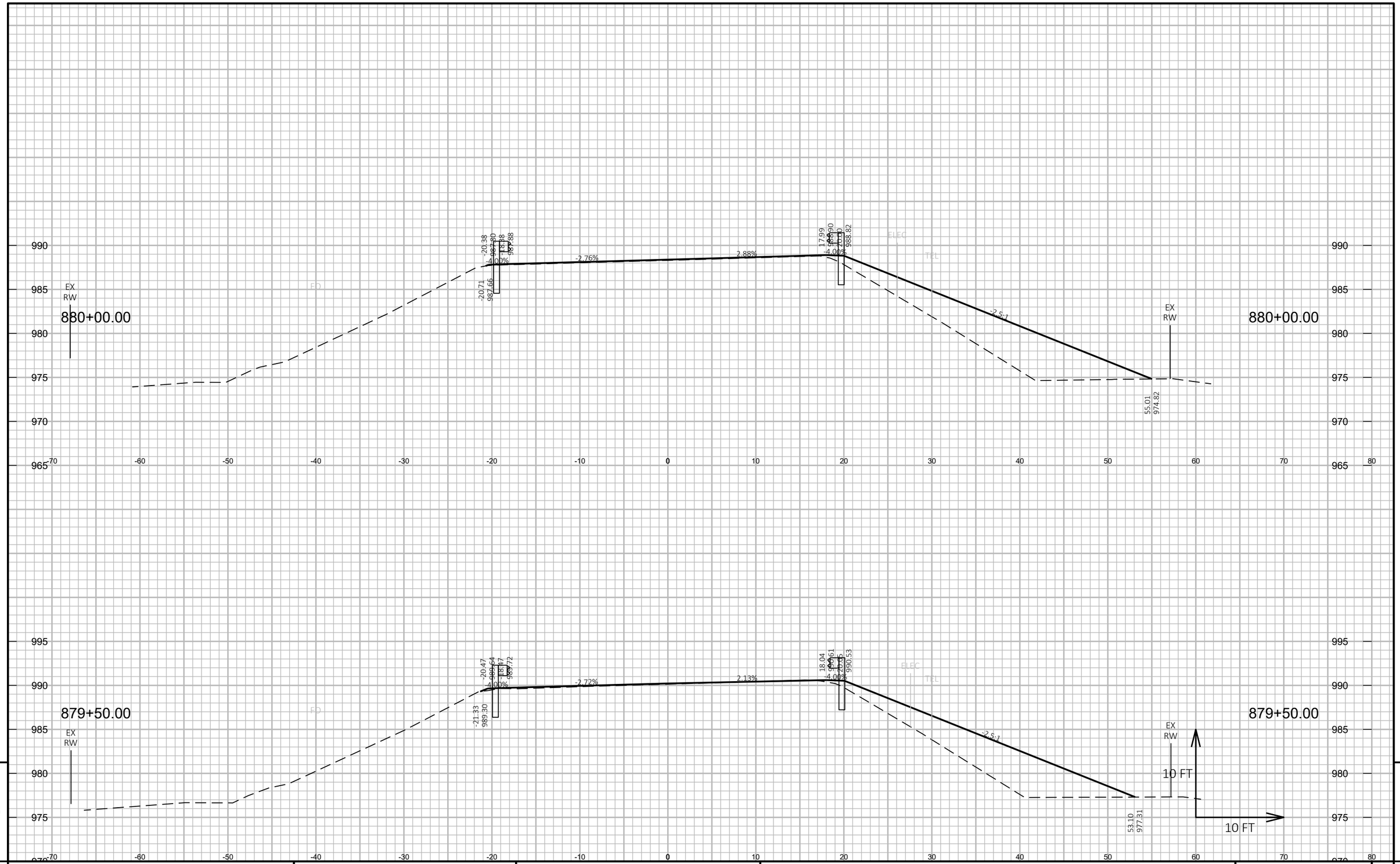


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 428	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 101

PLOT DATE : 8/1/2025 11:38 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

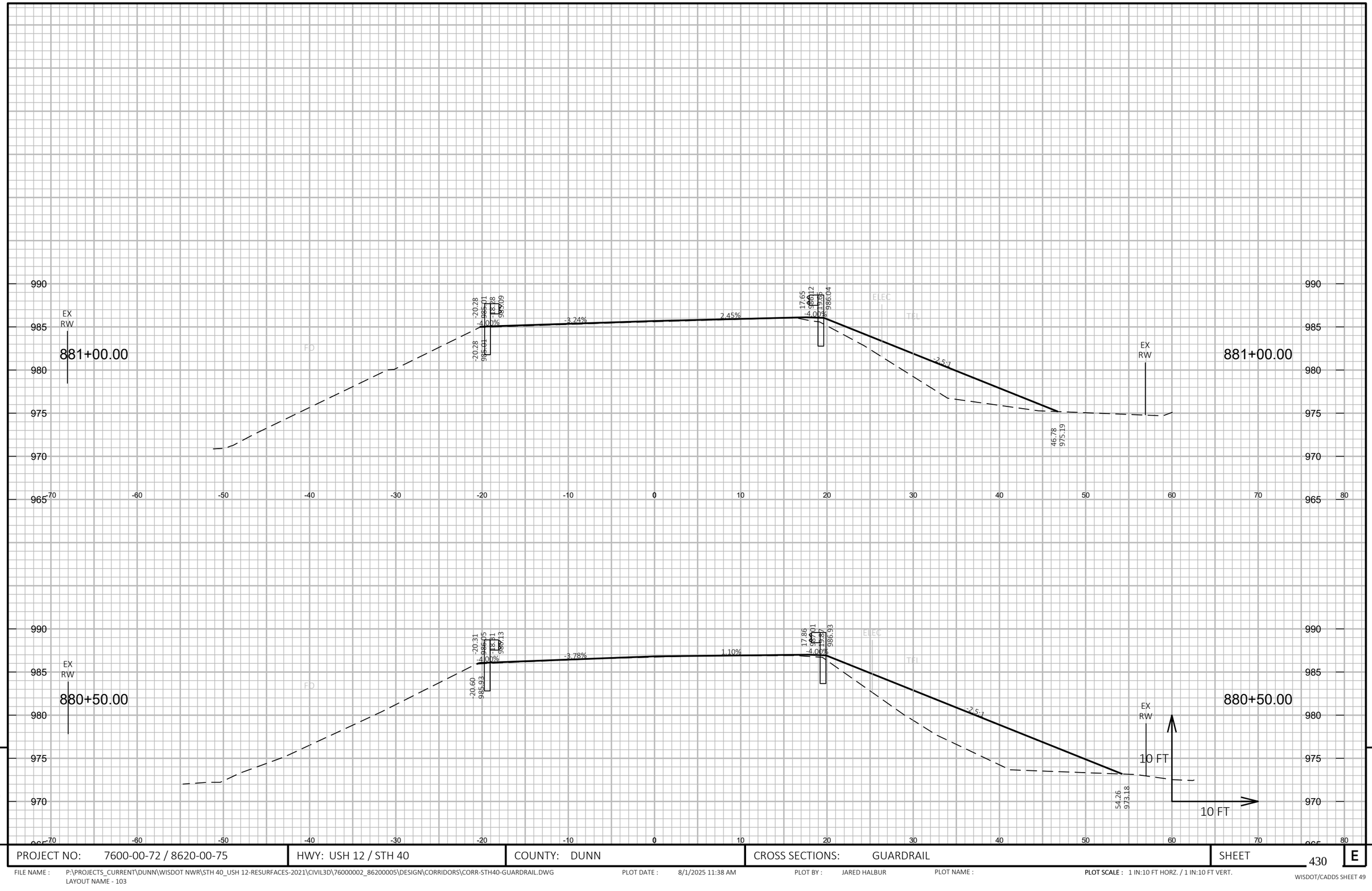
WISDOT/CADDS SHEET 49



PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 429	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 102

PLOT DATE : 8/1/2025 11:38 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



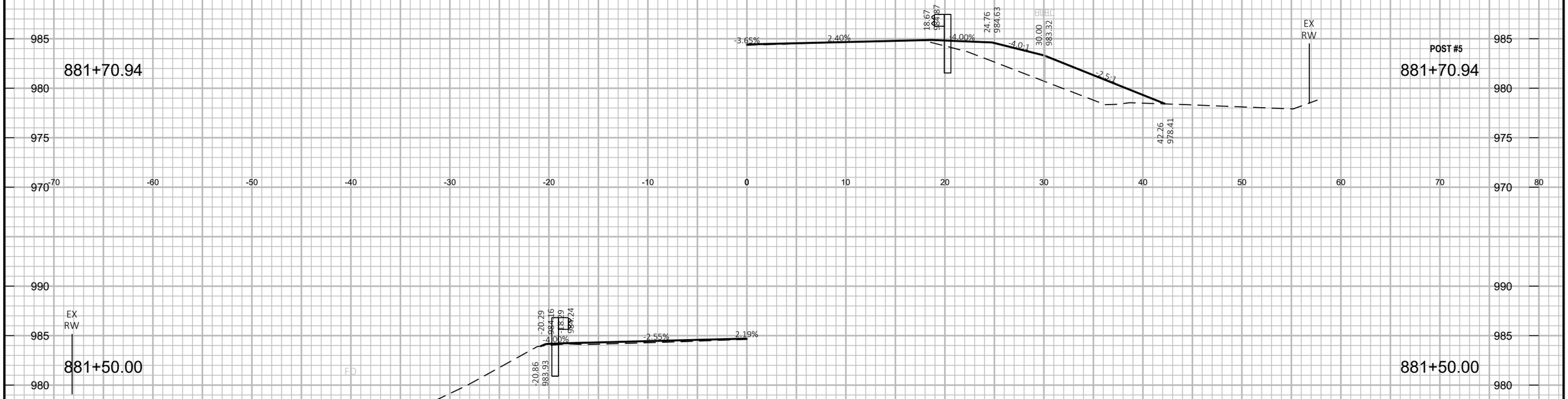
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 430 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 103

PLOT DATE : 8/1/2025 11:38 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

881+70.94



881+50.00

881+46.08

9

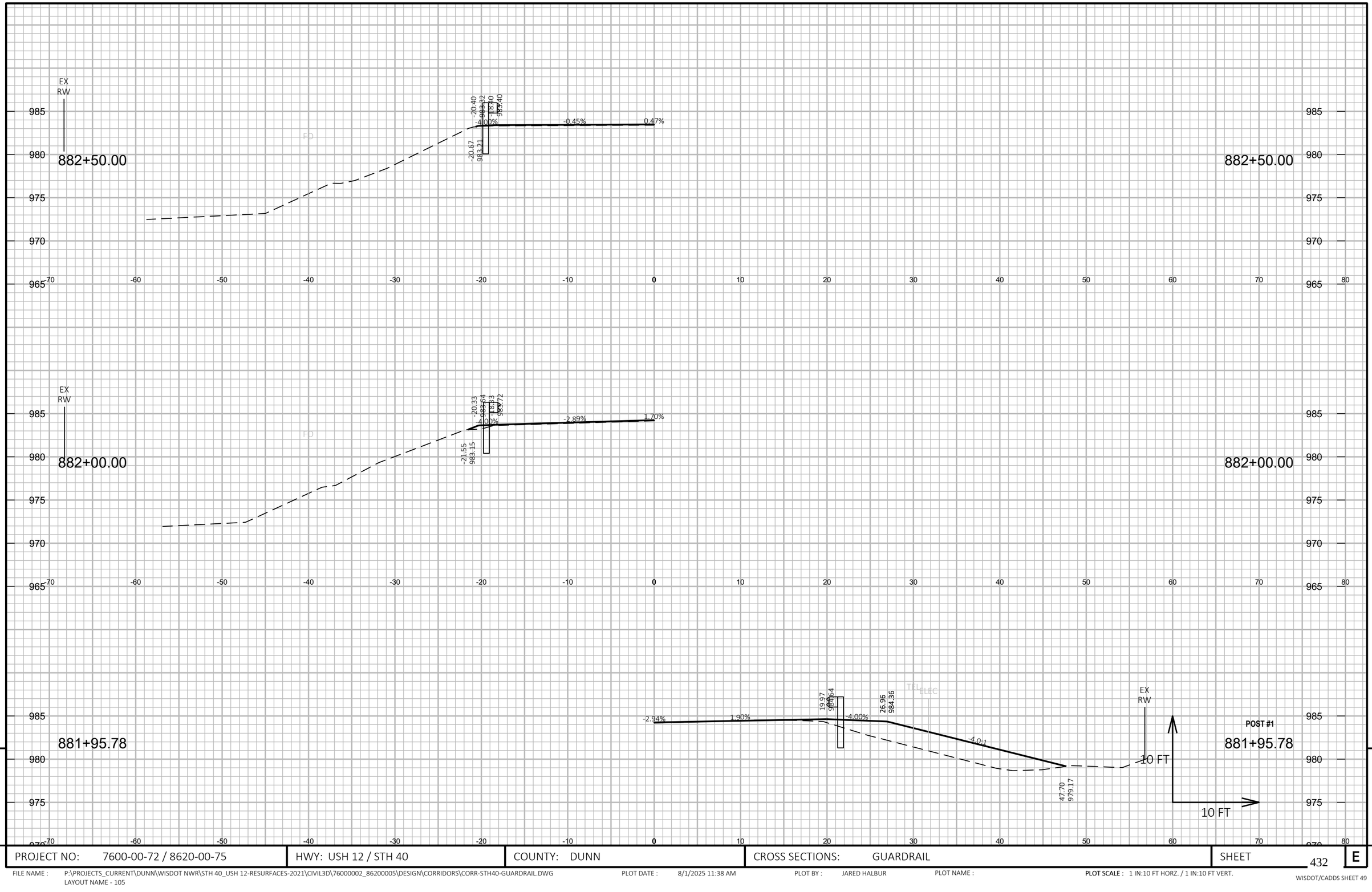
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 431	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 104

PLOT DATE : 8/1/2025 11:38 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



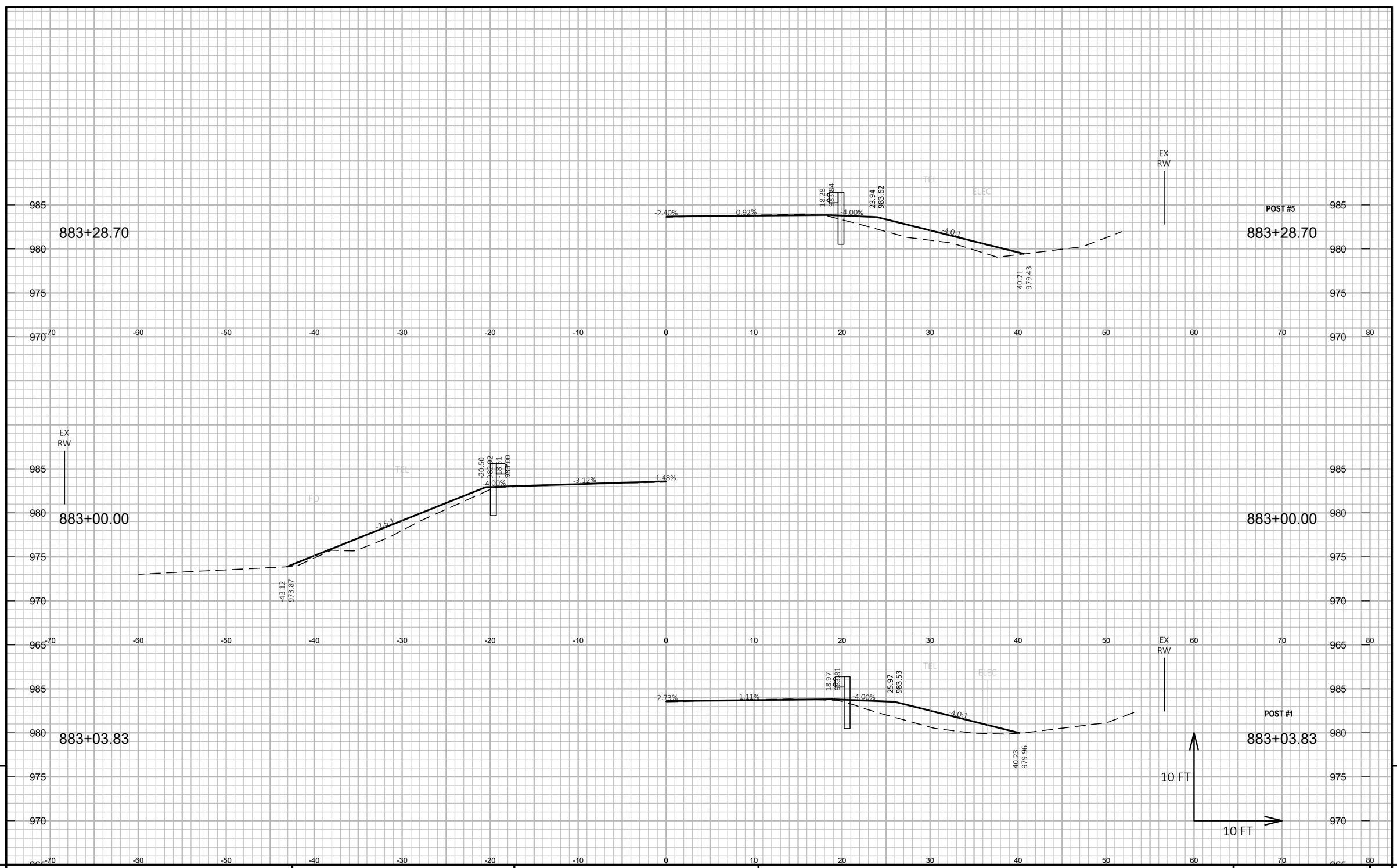
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 432 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 105

PLOT DATE : 8/1/2025 11:38 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

883+28.70

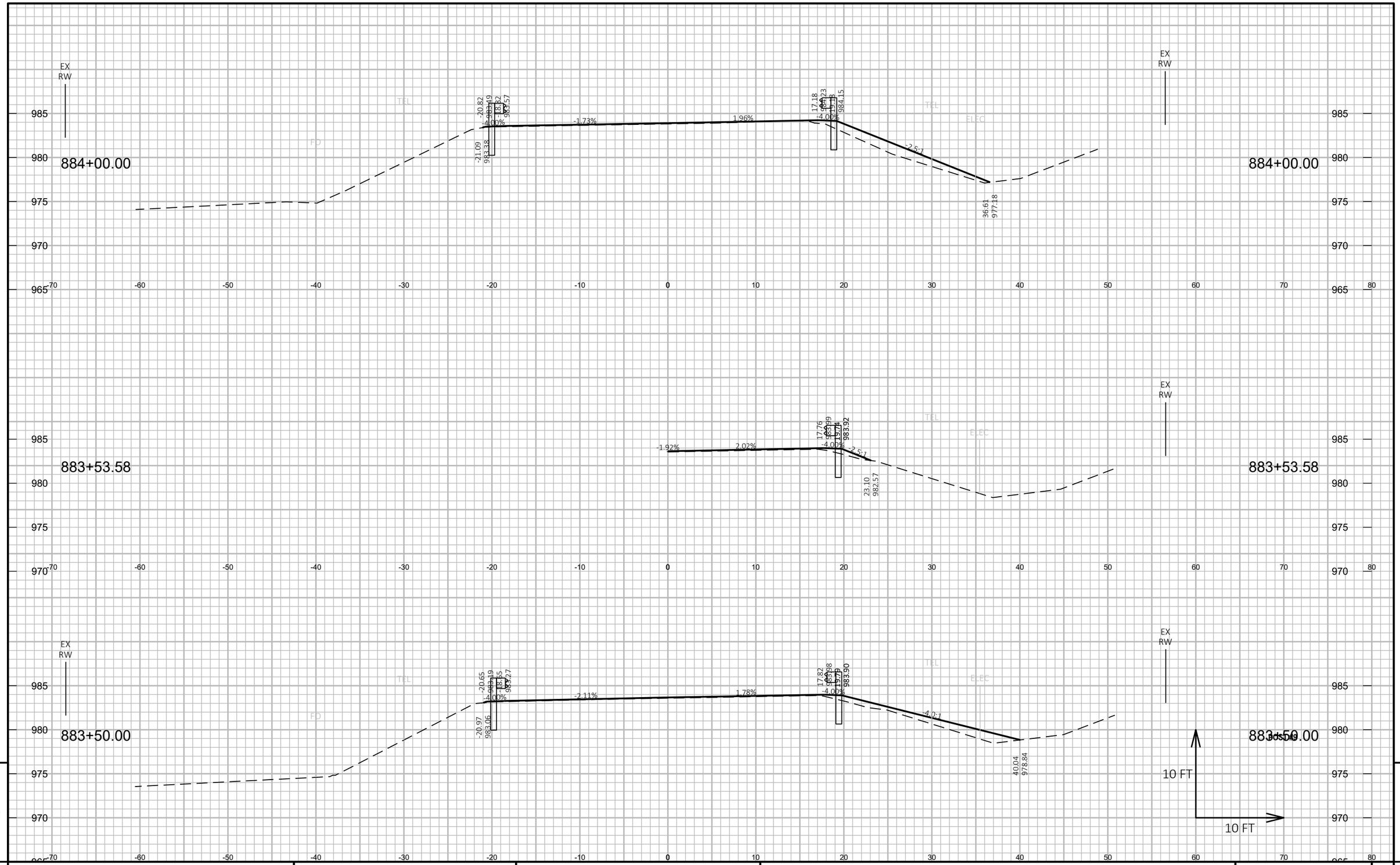


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 433 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 106

PLOT DATE : 8/1/2025 11:38 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

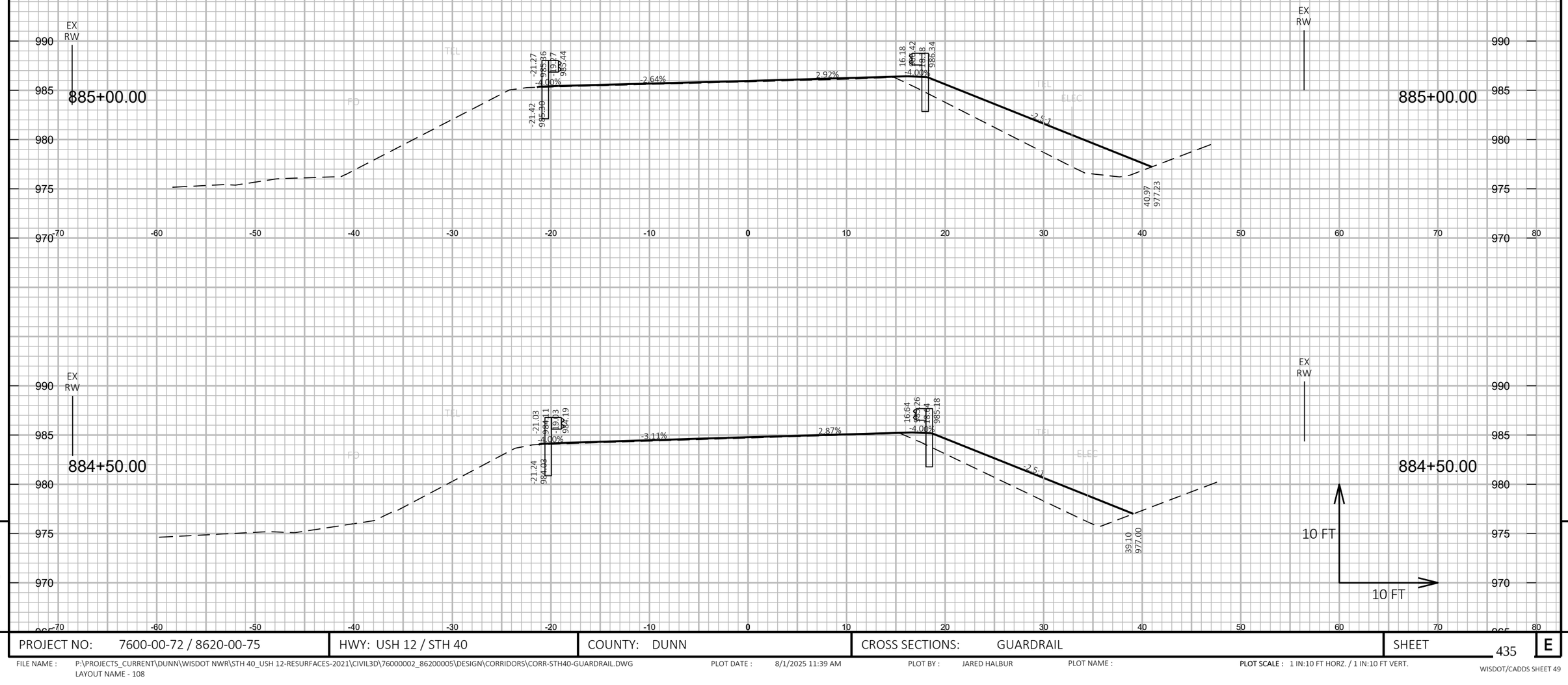


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 434 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 107

PLOT DATE : 8/1/2025 11:38 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



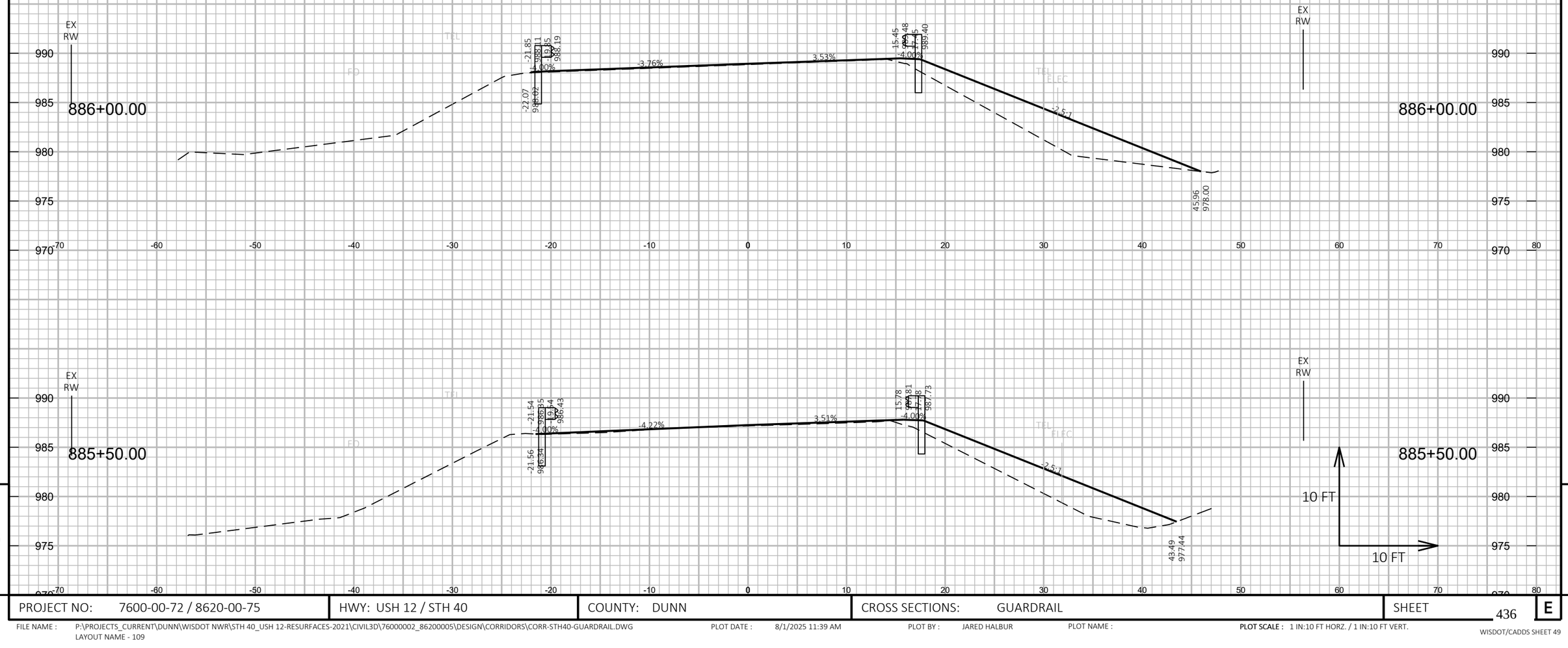
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 435	E

9

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 108

PLOT DATE : 8/1/2025 11:39 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

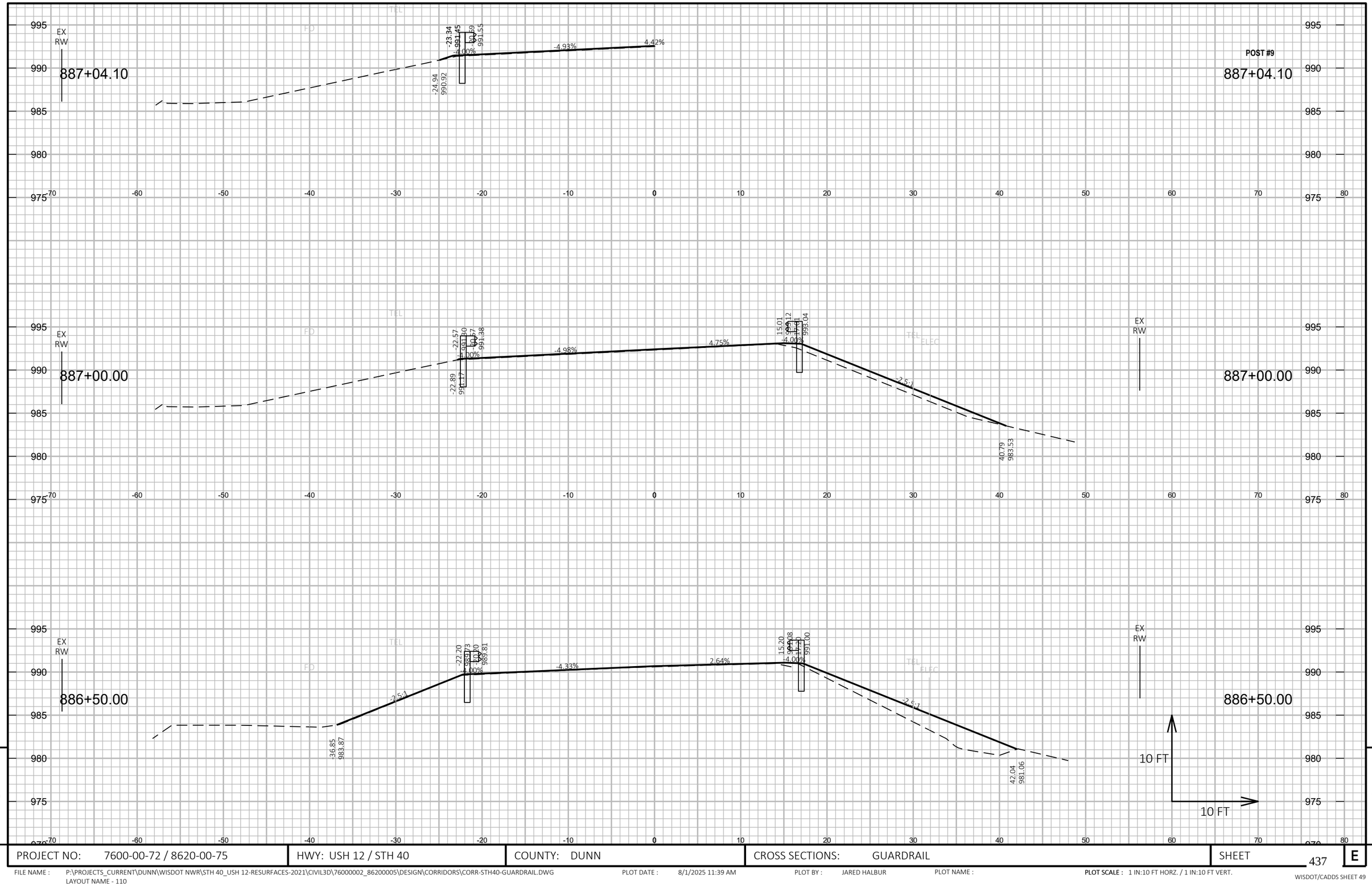


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 436 E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 109

PLOT DATE : 8/1/2025 11:39 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

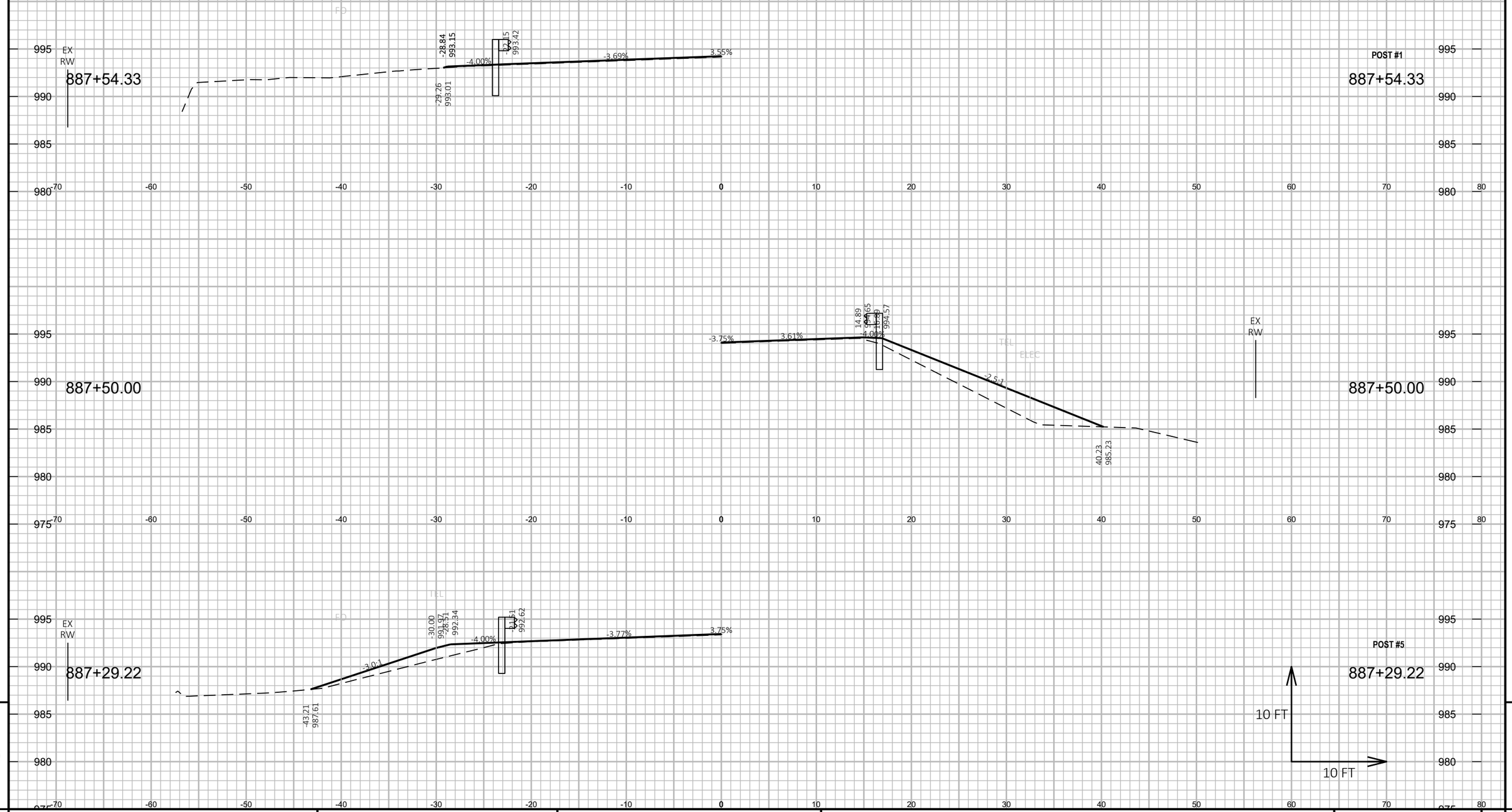
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 437	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 110

PLOT DATE : 8/1/2025 11:39 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

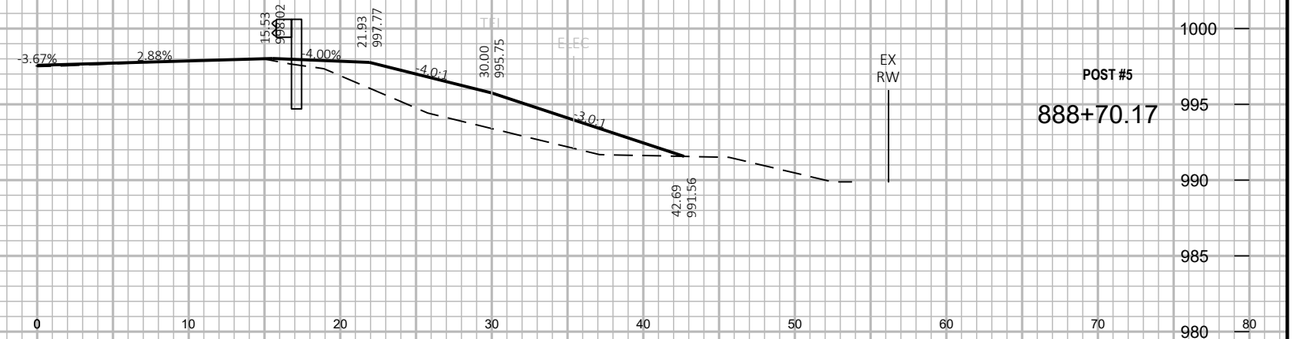


PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 438 E

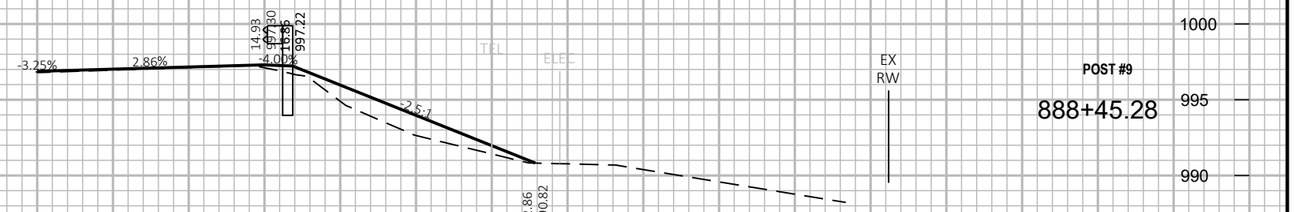
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 111

PLOT DATE : 8/1/2025 11:39 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

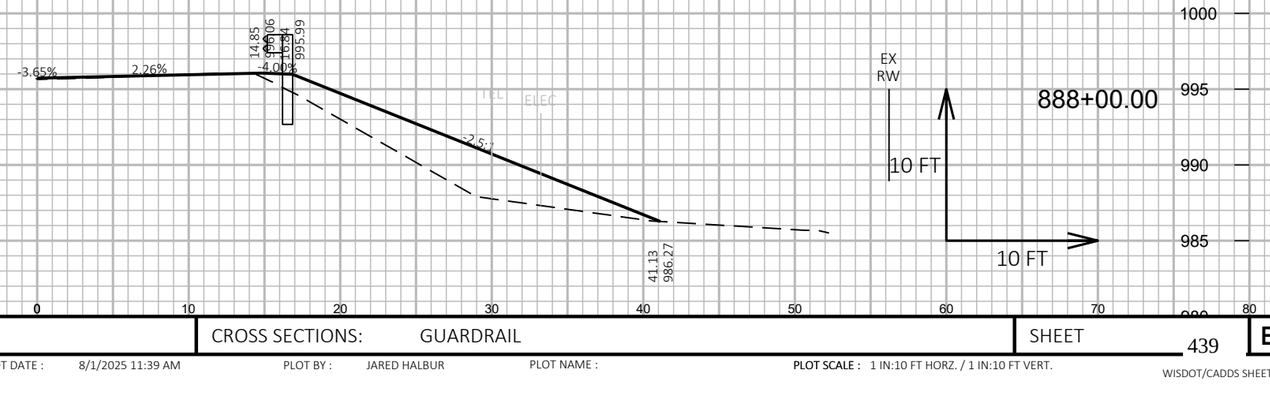
888+70.17



888+45.28



888+00.00



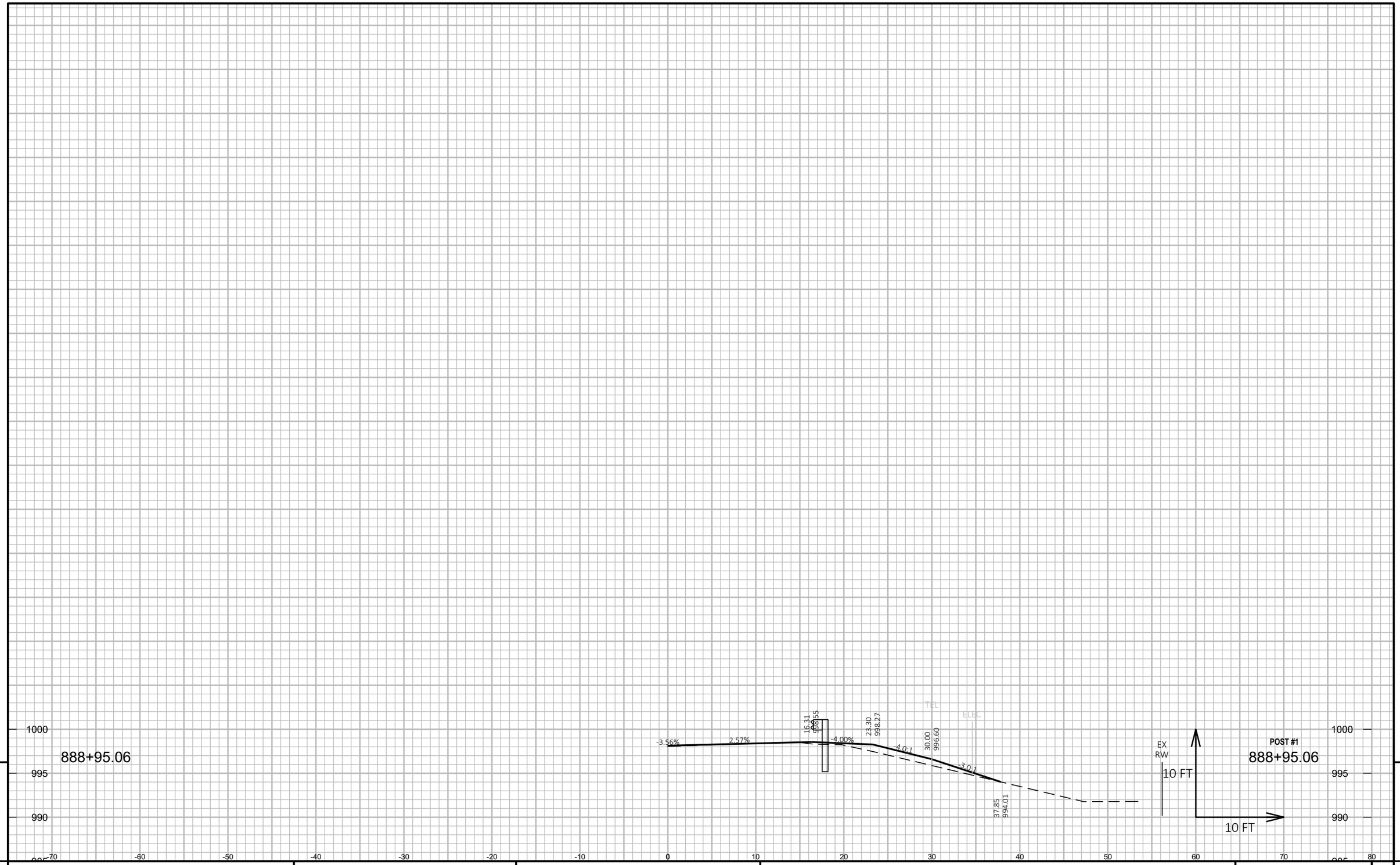
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 439	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 112

PLOT DATE : 8/1/2025 11:39 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

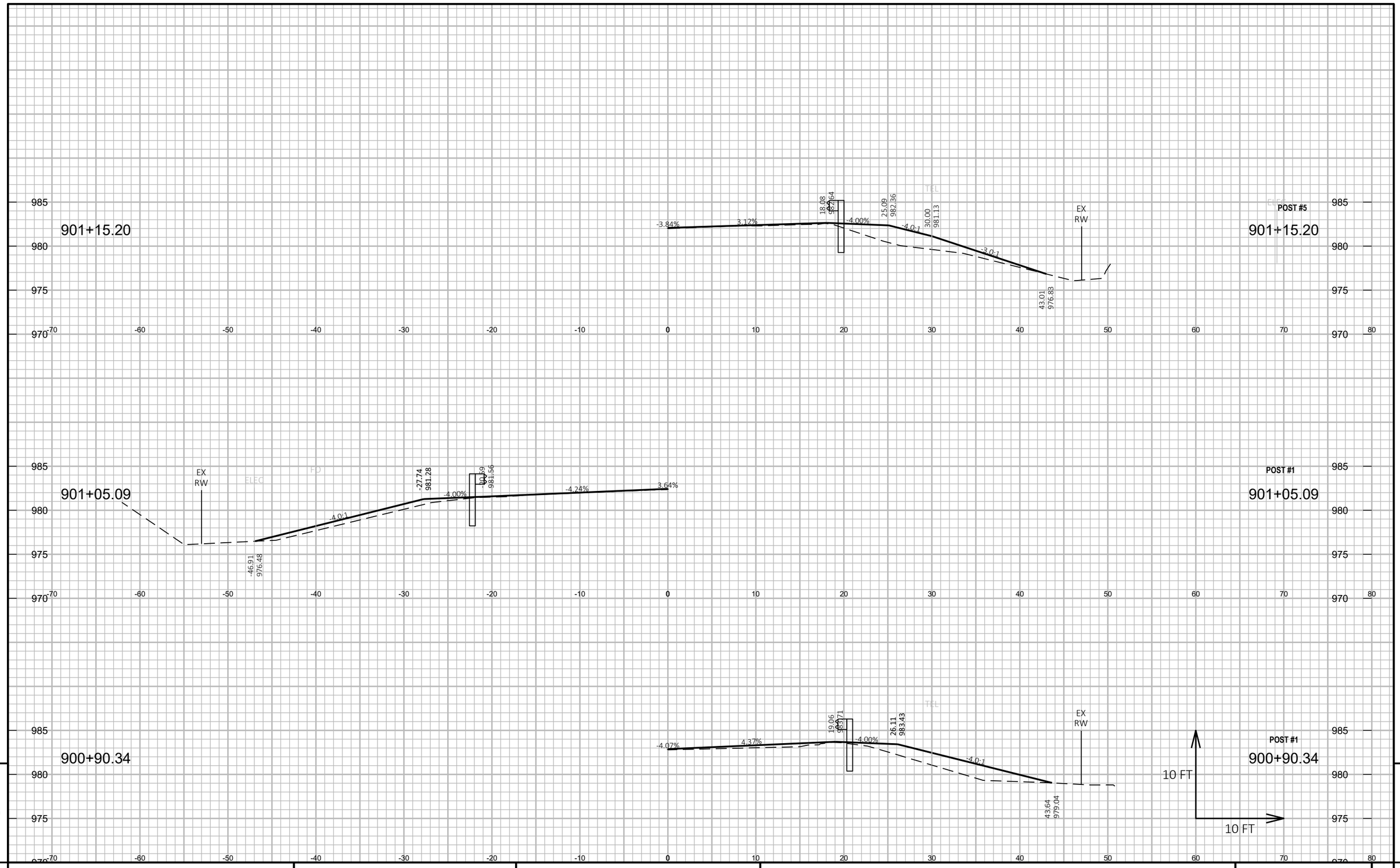
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 440	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 113

PLOT DATE : 8/1/2025 11:39 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

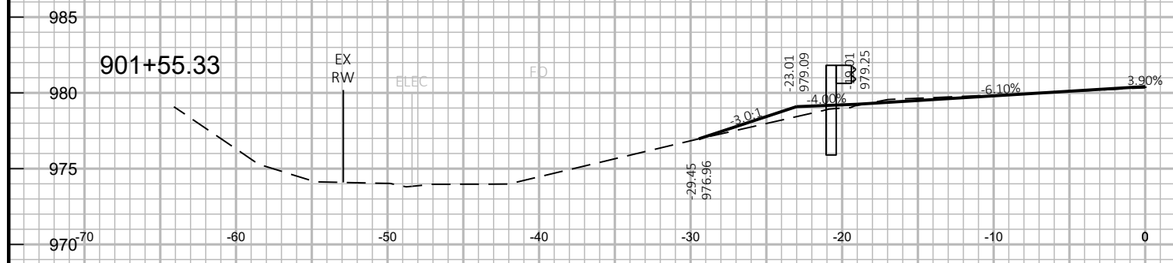


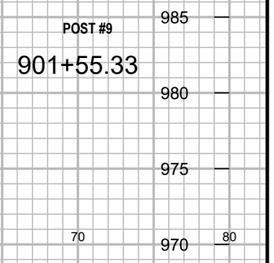
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 441	E

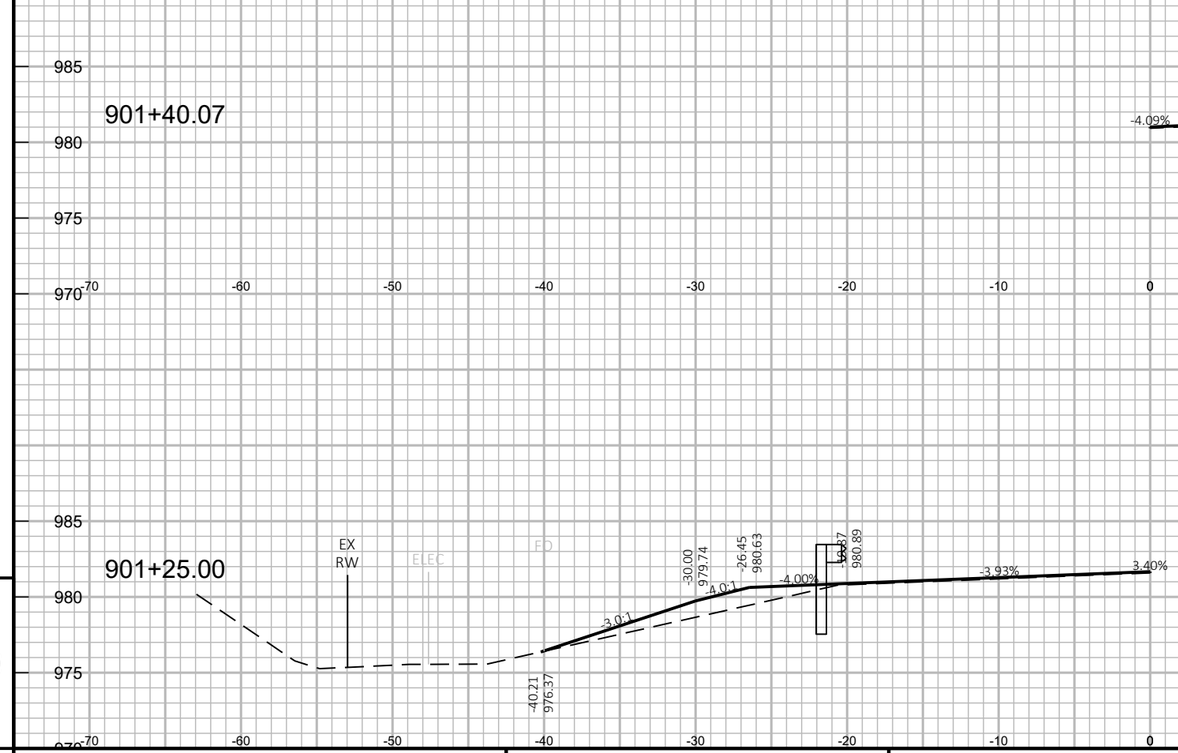
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 114

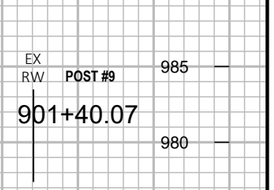
PLOT DATE : 8/1/2025 11:39 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

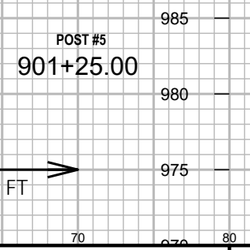
WISDOT/CADDS SHEET 49











9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 442	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 115

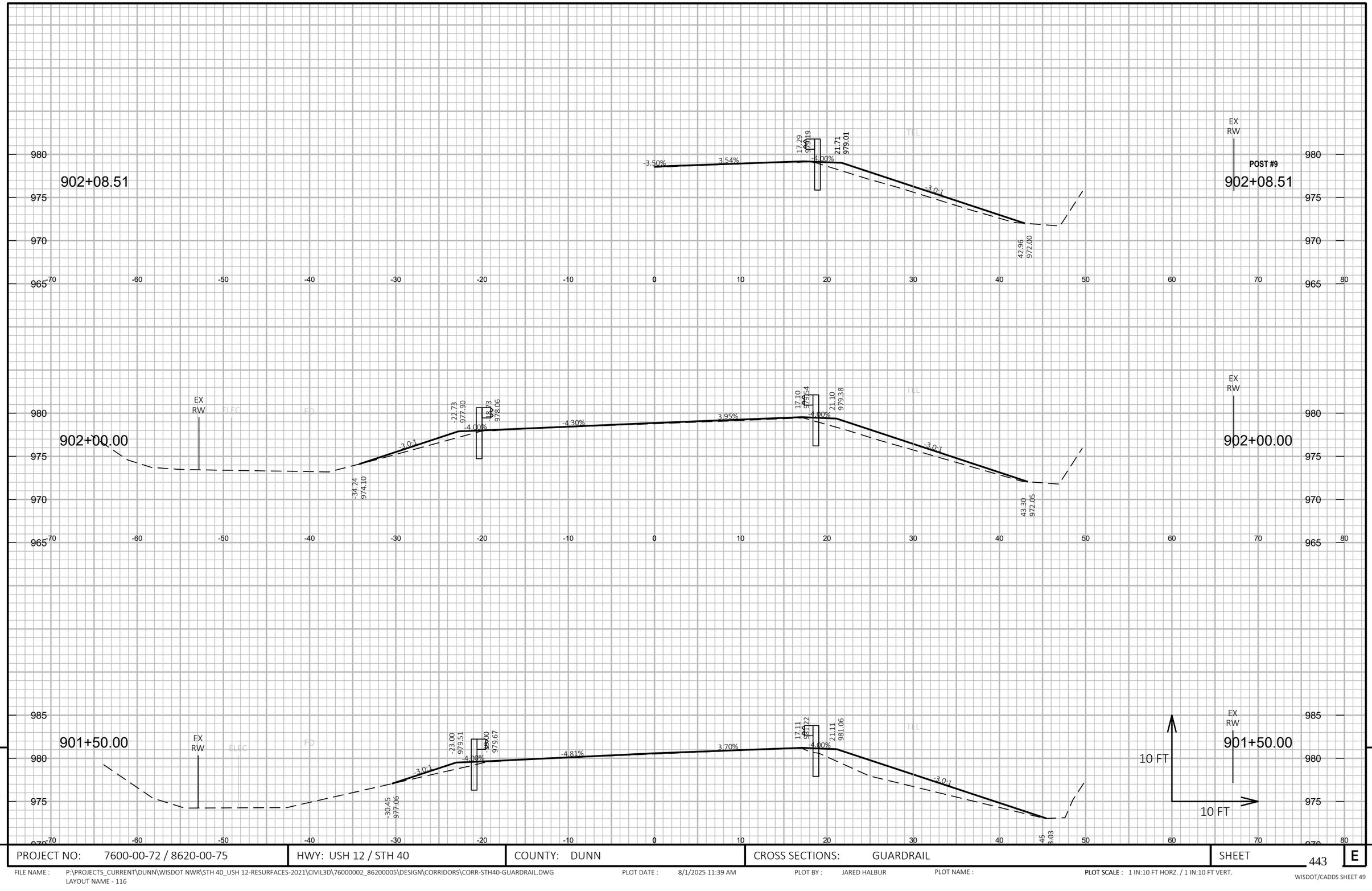
PLOT DATE : 8/1/2025 11:39 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49

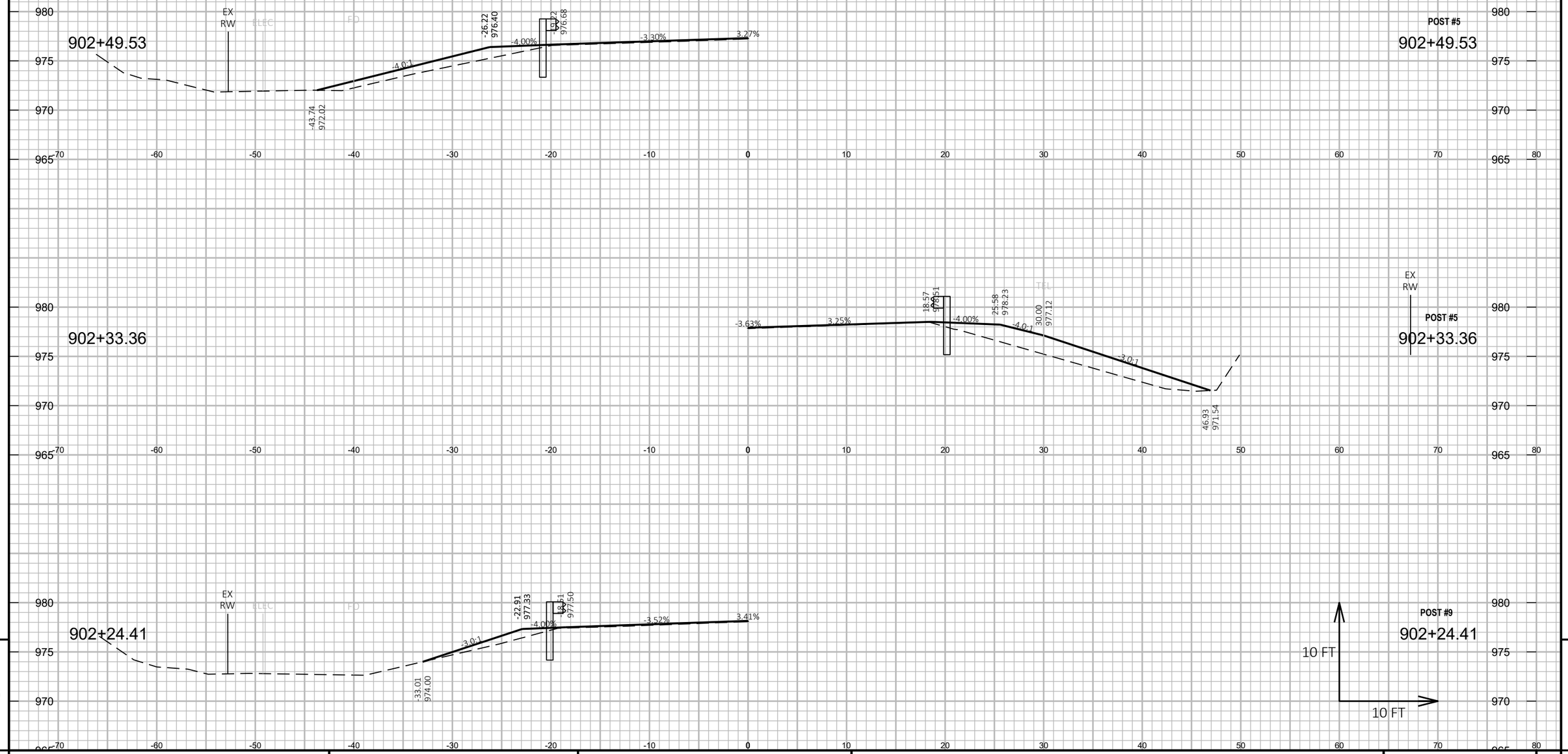


9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 443	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 116

PLOT DATE : 8/1/2025 11:39 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

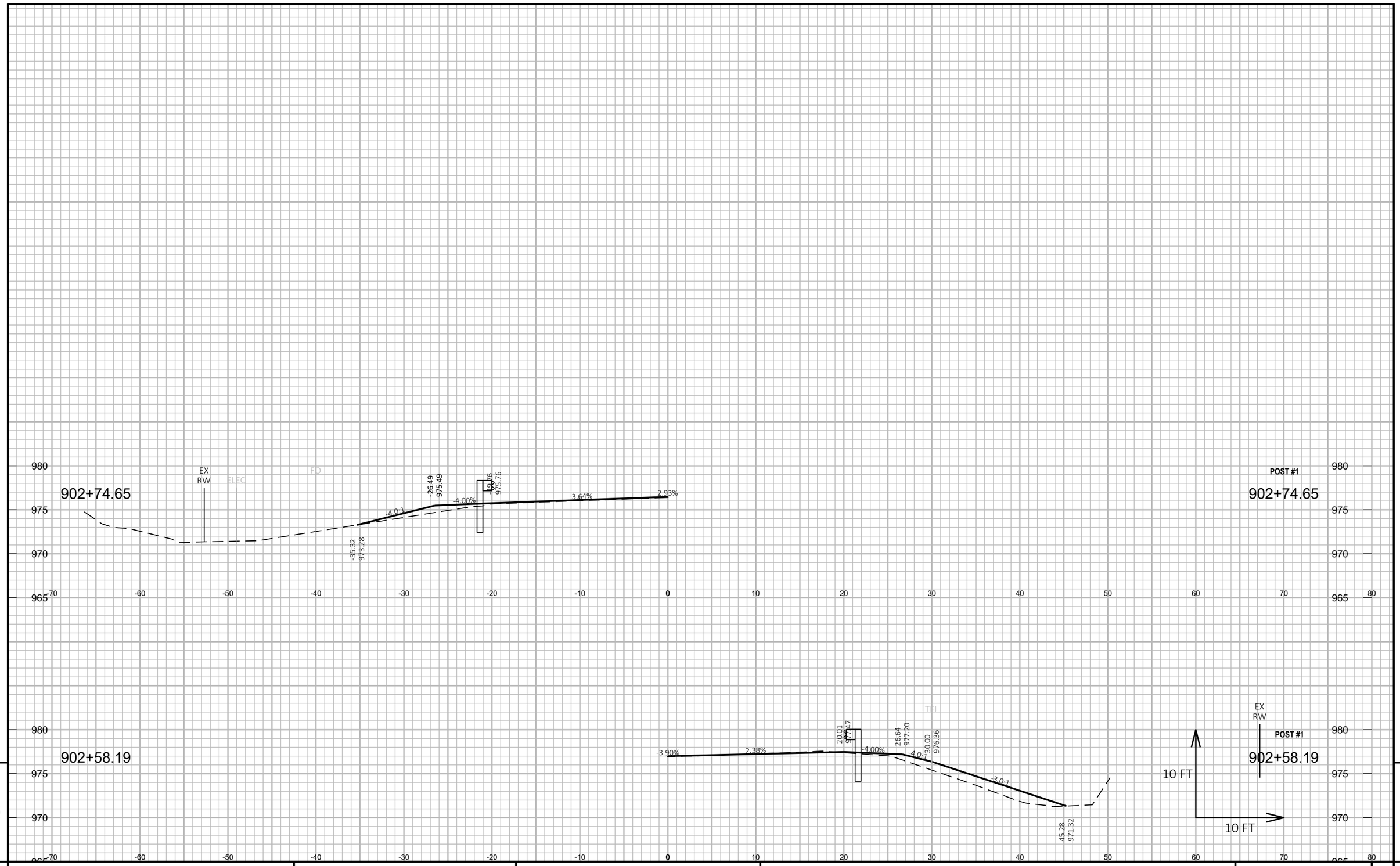
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 444	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 117

PLOT DATE : 8/1/2025 11:39 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 445	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 118

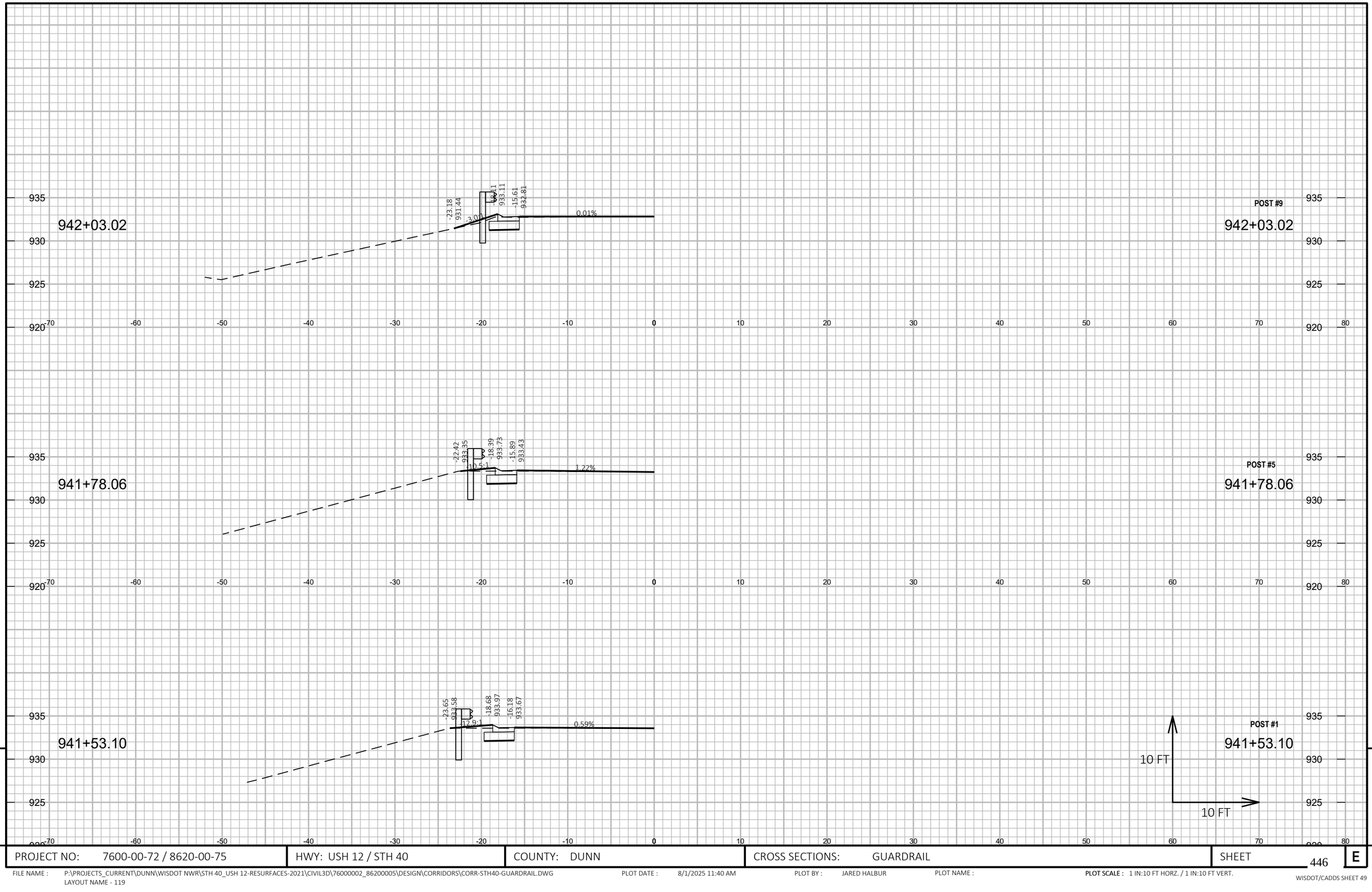
PLOT DATE : 8/1/2025 11:40 AM

PLOT BY : JARED HALBUR

PLOT NAME :

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

WISDOT/CADDS SHEET 49



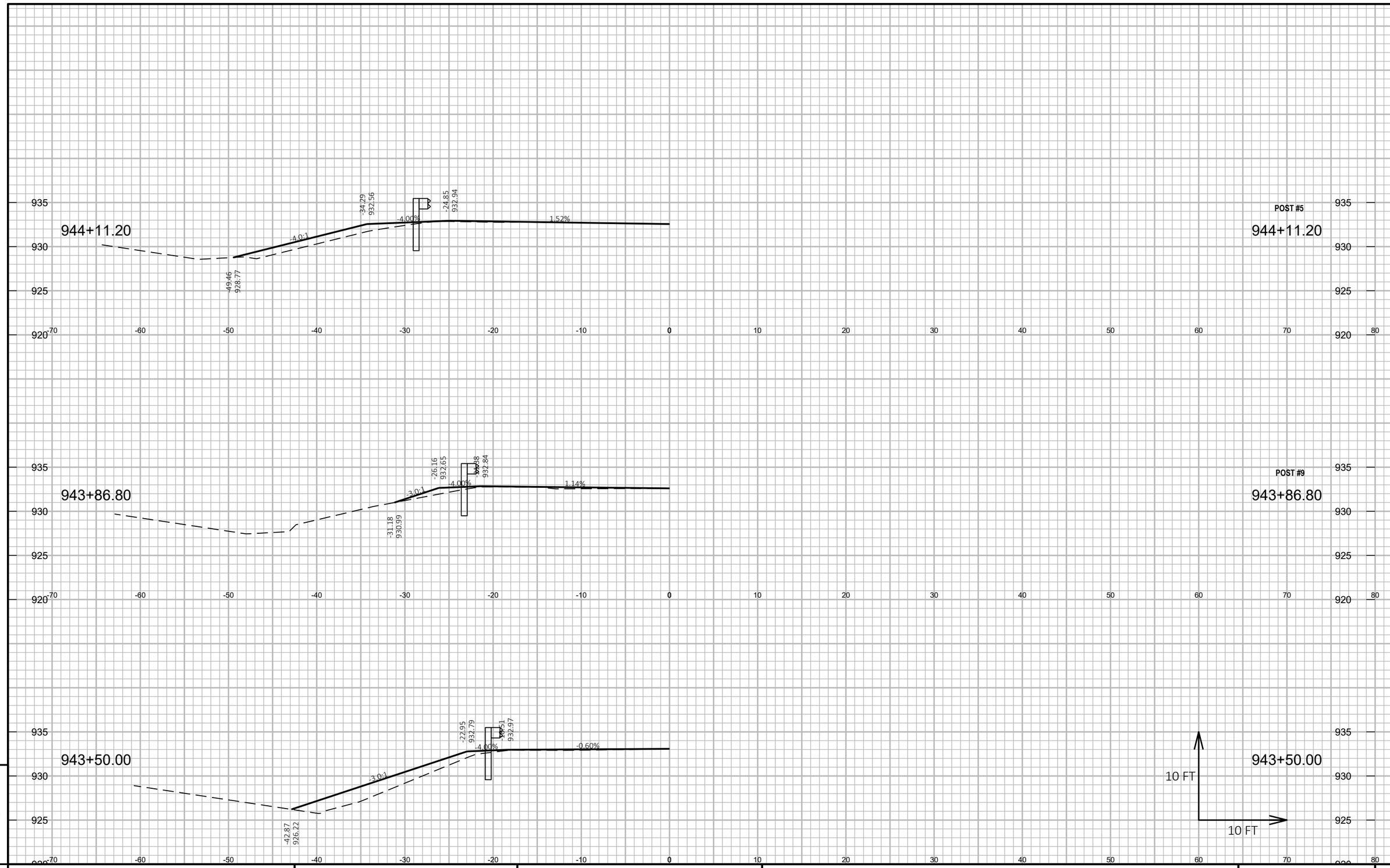
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 446	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 119

PLOT DATE : 8/1/2025 11:40 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 447	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 120

PLOT DATE : 8/1/2025 11:40 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

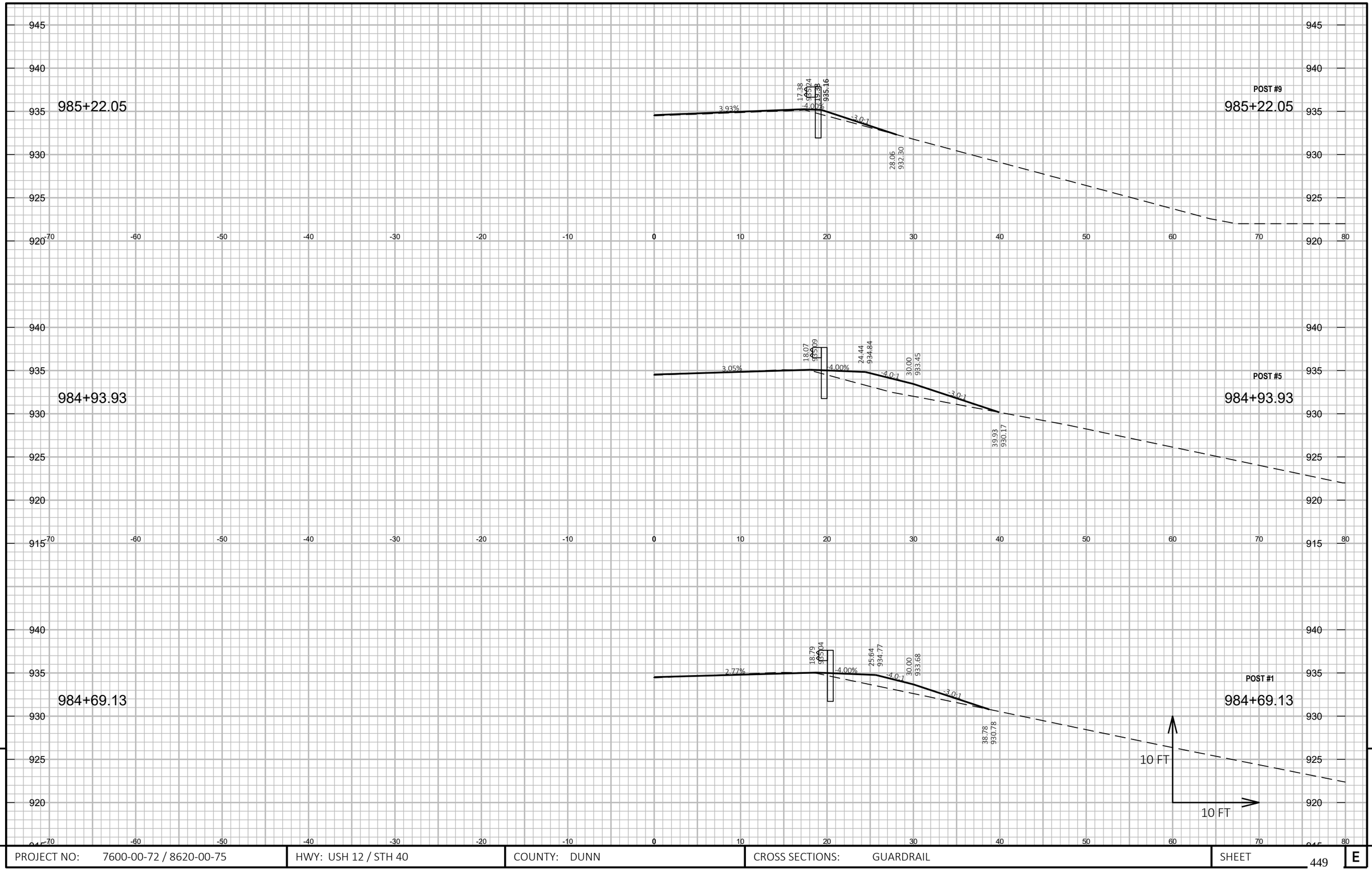
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 448	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 121

PLOT DATE : 8/1/2025 11:40 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



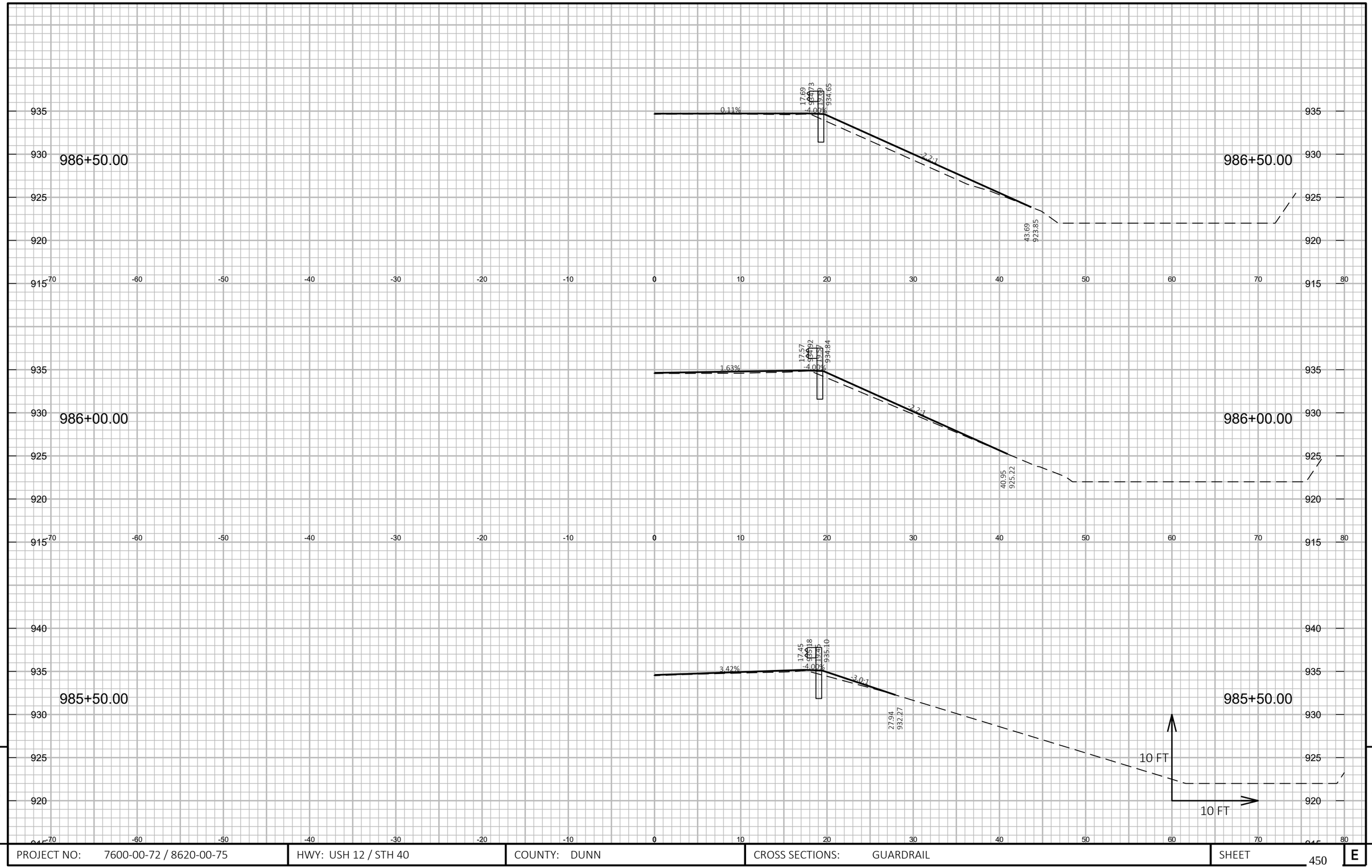
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 449	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 122

PLOT DATE : 8/1/2025 11:40 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



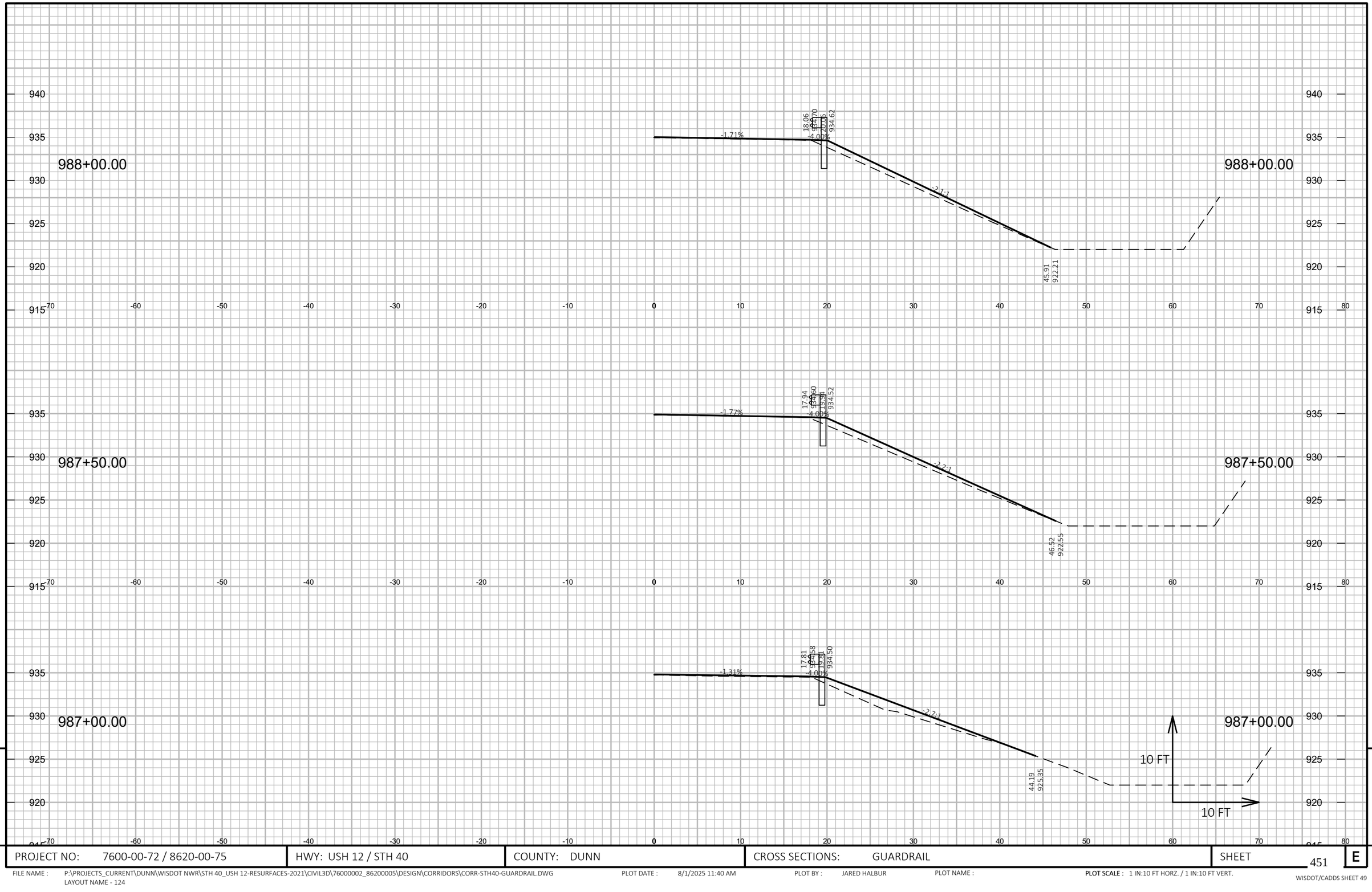
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 450	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 123

PLOT DATE : 8/1/2025 11:40 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

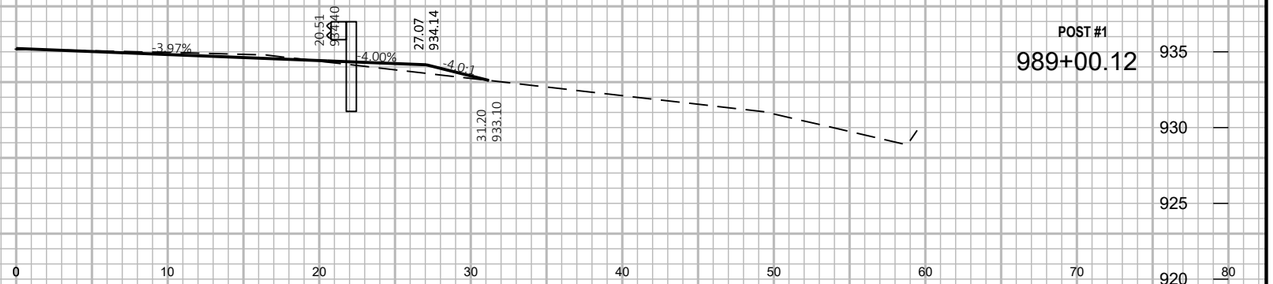
PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 451	E

9

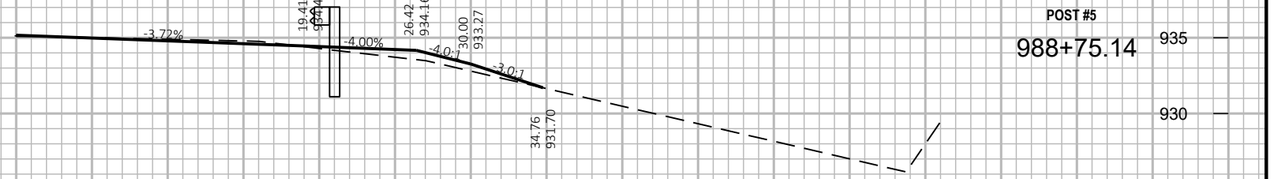
FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 124

PLOT DATE : 8/1/2025 11:40 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

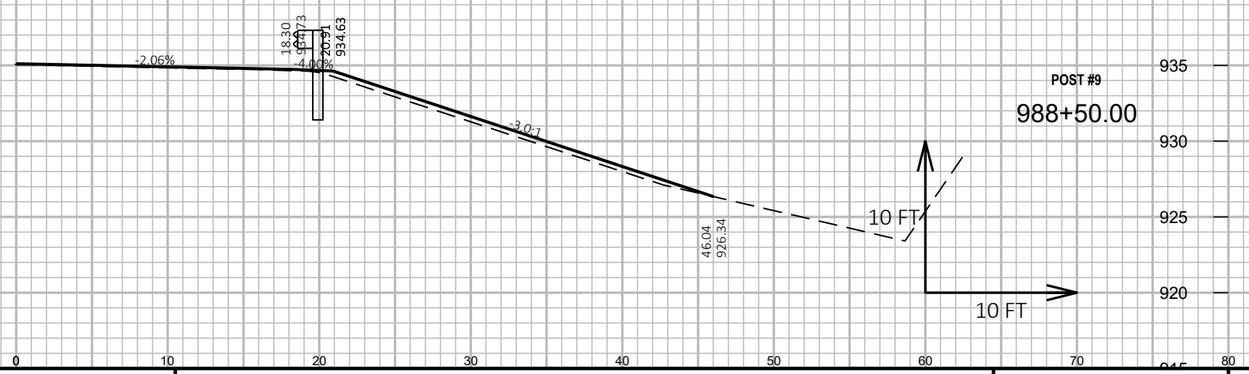
989+00.12



988+75.14



988+50.00



9

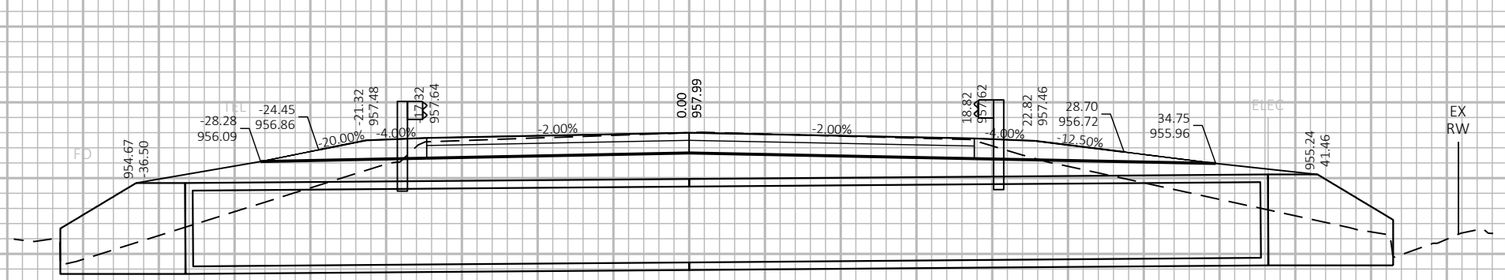
9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 452	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 125

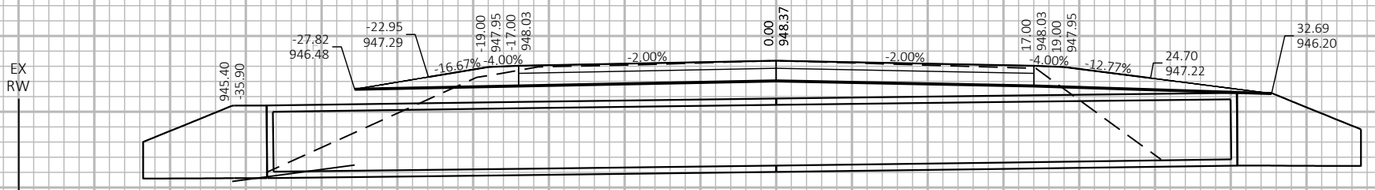
PLOT DATE : 8/1/2025 11:40 AM PLOT BY : JARED HALBUR PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

664+83.78



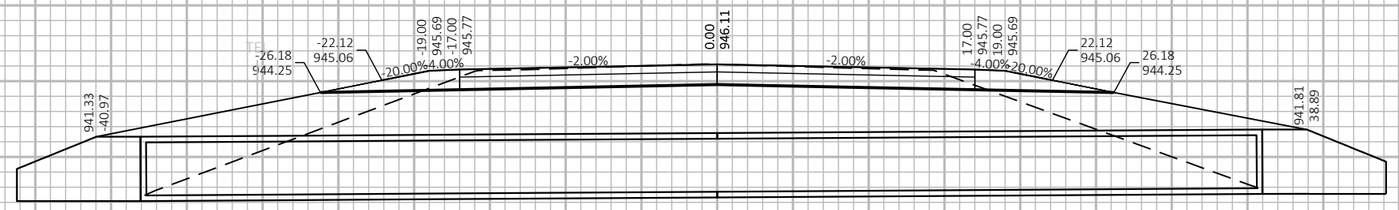
664+83.78

631+46.65



631+46.65

619+52.58



619+52.58

10 FT

10 FT

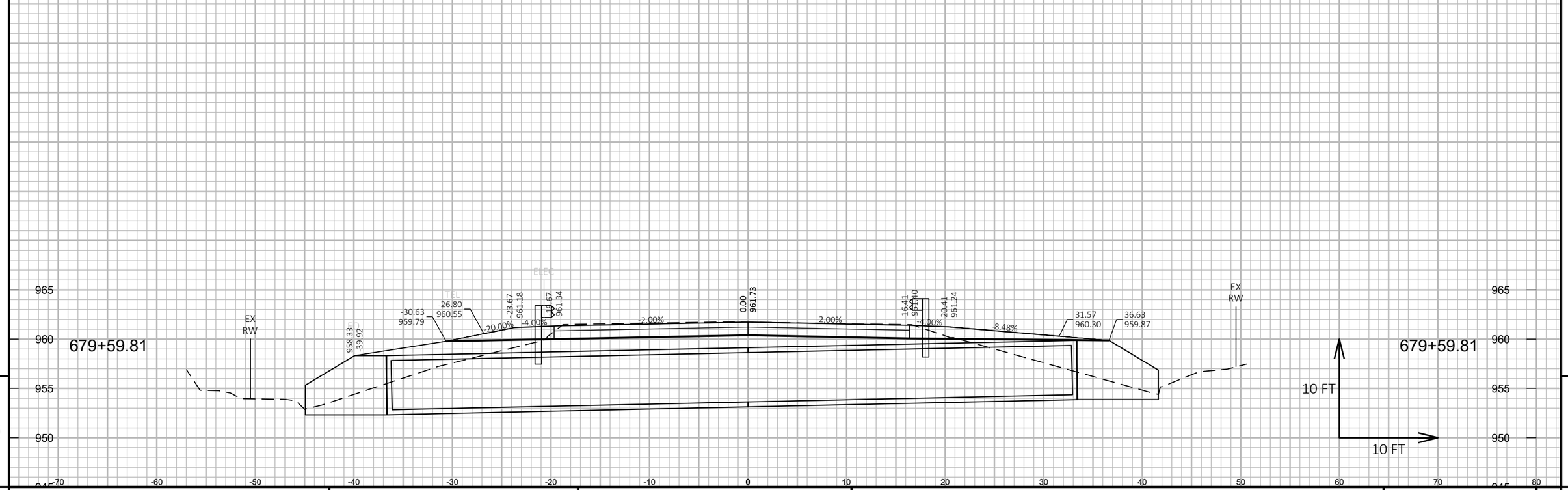
9

9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: CULVERTS	SHEET 453	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 126

PLOT DATE : 8/1/2025 11:40 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

PROJECT NO: 7600-00-72 / 8620-00-75	HWY: USH 12 / STH 40	COUNTY: DUNN	CROSS SECTIONS: GUARDRAIL	SHEET 454	E

FILE NAME : P:\PROJECTS_CURRENT\DUNN\WISDOT NWR\STH 40_USH 12-RESURFACES-2021\CIVIL3D\76000002_86200005\DESIGN\CORRIDORS\CORR-STH40-GUARDRAIL.DWG
LAYOUT NAME - 127

PLOT DATE : 8/1/2025 11:40 AM PLOT BY : JARED HALBUR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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