GRE

PROJECT ID: 6508-00-71

WITH: 6508-01-71

COUNTY: OUTAGAMIE

MAY 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 = 68



26

N

DESIGN DESIGNATION 6508-00-71

A.A.D.T.	2025	=	1170
A.A.D.T.	2045	=	1310
D.H.V.		=	140
D.D.		=	50/50
T.		=	7.8%
DESIGN SPEED		=	45 MPH
ESALS		=	160,600

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

T ELLINGTON, MARKET ROAD

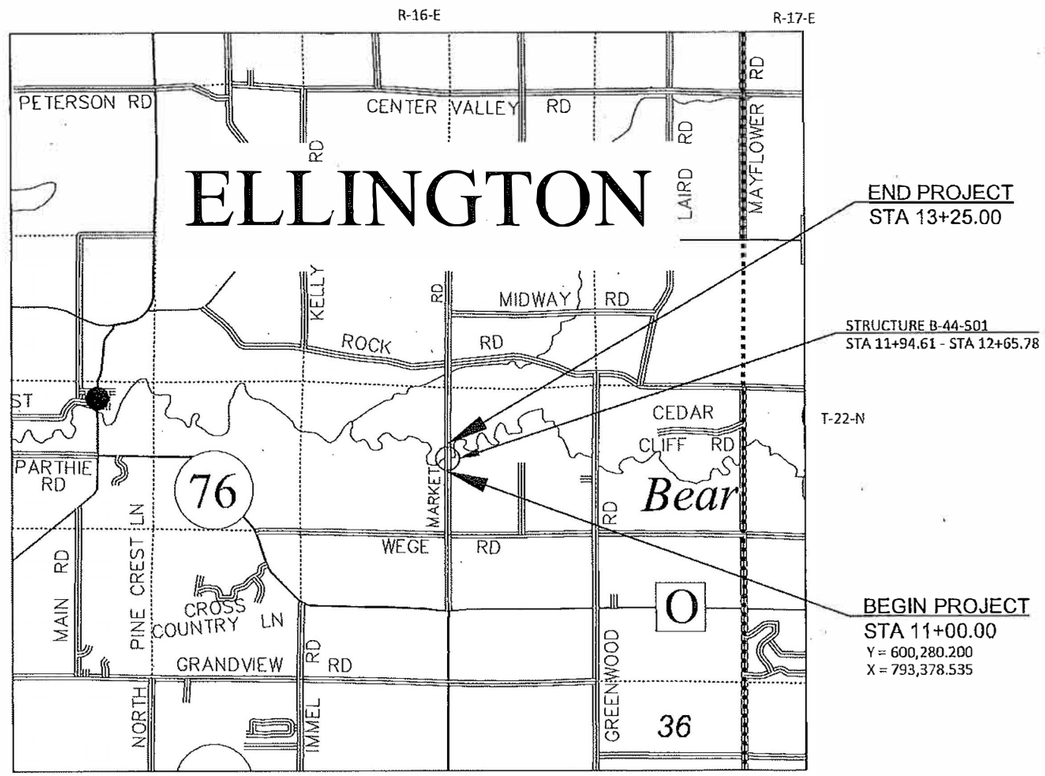
BEAR CREEK BRIDGE

LOCAL STREET

OUTAGAMIE COUNTY

STATE PROJECT NUMBER
6508-00-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6508-00-71	WISC 2025477	1



LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.043 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), OUTAGAMIE 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.

ACCEPTED FOR
TOWN OF ELLINGTON

DATE: 1-7-25 Joe Schumacher
(Signature and Title of Official)
TN Chairman

JT ENGINEERING

WISCONSIN
JOSEPH W. MALENOFSKI
E-40076
APPLETON, WI
PROFESSIONAL ENGINEER

DATE: 1/6/2025
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	JT ENGINEERING, INC.
Designer	JT ENGINEERING, INC.
Project Manager	MICHAEL COHEN
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	KIMBERLY SLEZAK

APPROVED FOR THE DEPARTMENT

DATE: 1-7-25 Michael Cohn
(Signature)

E

FILE NAME : X:\PROJECTS\OUTAGAMIE\230050 MARKET RD BRIDGE ELLINGTON\DESIGN\C3D\SHEETSPLAN\010101-TI.DWG

PLOT DATE : 1/6/2025 5:07 PM PLOT BY : JOE MALENOFSKI PLOT NAME :

GENERAL NOTES

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

ANY LOCAL OR MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

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

WHEN THE QUANTITY OF BASE AGGREGATE IS MEASURED BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

ALL DISTURBED AREAS NOT OTHERWISE SURFACED ARE TO BE TOPSOIL, FERTILIZER, SEEDED AND COVERED WITH EROSION MAT.

DO NOT PLACE FERTILIZER WITHIN 20 FEET OF A WETLAND OR WATER BODY.

THE LOCATIONS OF ALL EROSION CONTROL ITEMS AS SHOWN IN THE PLANS IS APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

TRAFFIC CONTROL SHALL FOLLOW SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES", DETAIL C.

ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

TACK COAT HAS BEEN ESTIMATED AT AN APPLICATION OF 0.05 GAL/SY AND SHALL BE PLACED BETWEEN THE LAYERS OF ASPHALTIC PAVEMENT.

UTILITY CONTACTS

WE ENERGIES - ELECTRIC

SHANE BRUHNKE
800 S LYNNDALE STREET
APPLETON, WI 54914
PHONE: (920) 380-3450
EMAIL: SHANE.BRUHNKE@WE-ENERGIES.COM

AT&T WISCONSIN - COMMUNICATIONS

KYLE WEBER
221 W WASHINGTON STREET
APPLETON, WI 54912
PHONE: (920) 221-5969
EMAIL: KW715W@ATT.COM

STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC
AC	ASPHALT CEMENT
AGG	AGGREGATE
ASPH	ASPHALT
BM	BENCHMARK
C/L	CENTERLINE
CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
CR	CREEK
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
ESALS	EQUIVALENT SINGLE AXIS LOADS
EXIST	EXISTING
FE	FIELD ENTRANCE
HYD	HYDRANT
IP	IRON PIPE
L	LENGTH OF CURVE
LC	LONG CHORD OF CURVE
LR	LENGTH OF RUN OFF
MH	MANHOLE
NC	NORMAL CROWN
PT	POINT OF TANGENT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PE	PRIVATE ENTRANCE
R	RADIUS
REM	REMOVE
R/L OR RL	REFERENCE LINE
RCCP	REINFORCED CONCRETE CULVERT PIPE
RCPSS	REINFORCED CONCRETE STORM SEWER
RO	RUNOUT
R/W	RIGHT OF WAY
STA	STATION
SE	SUPER ELEVATION
SS	STORM SEWER
T	TANGENT
TEL	TELEPHONE
TLE	TEMPORARY LIMITED EASEMENT
T	TRUCKS
VC	VERTICAL CURVE
W	WELL

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 = 1.05 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.95 ACRES

WISCONSIN DNR LIAISON

MATT SCHAEVE
NORTHEAST REGION
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
PHONE: (920) 366-1544
EMAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV

WISCONSIN DOT CONTACT

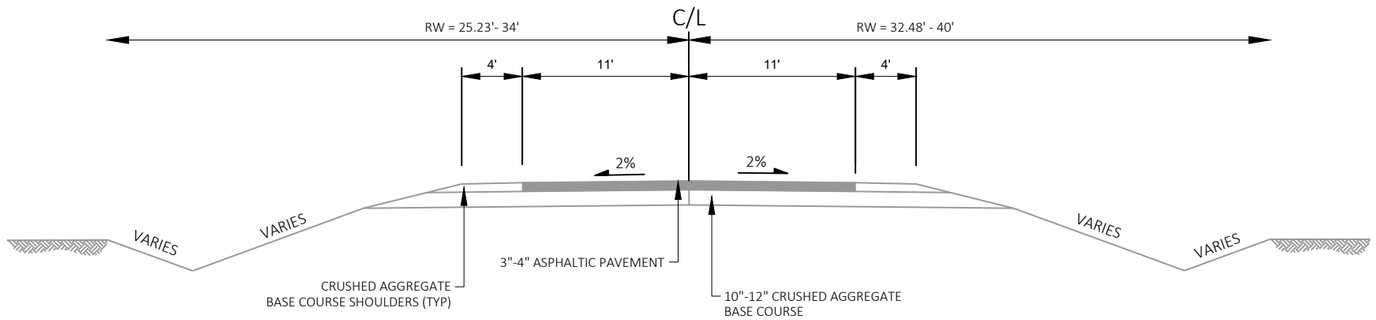
MICHAEL COHEN
NORTHEAST REGION
944 VANDERPERREN WAY
GREEN BAY, WI 54304
PHONE: (920) 360-1476
EMAIL: MICHAEL.COHEN@DOT.WI.GOV

DESIGN CONTACT

JT ENGINEERING, INC.
RICH GLEN
1077 CENTENNIAL CENTRE BLVD
HOBART, WI 54155
PHONE: 920-468-4771
EMAIL: RICHG@JT-ENGINEERING.COM

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

2

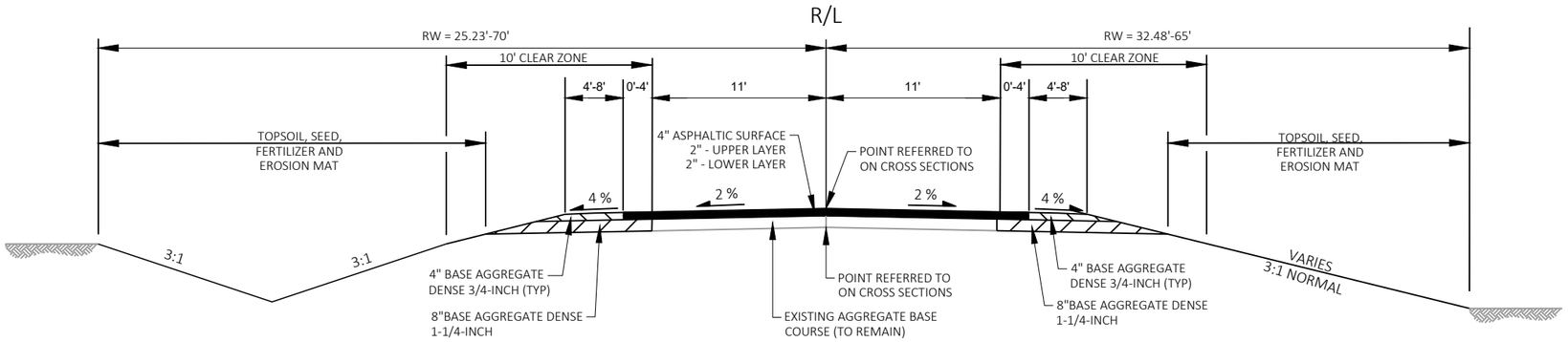


EXISTING TYPICAL SECTION

STA 9+60 - 12+00
STA 12+52 - 15+26

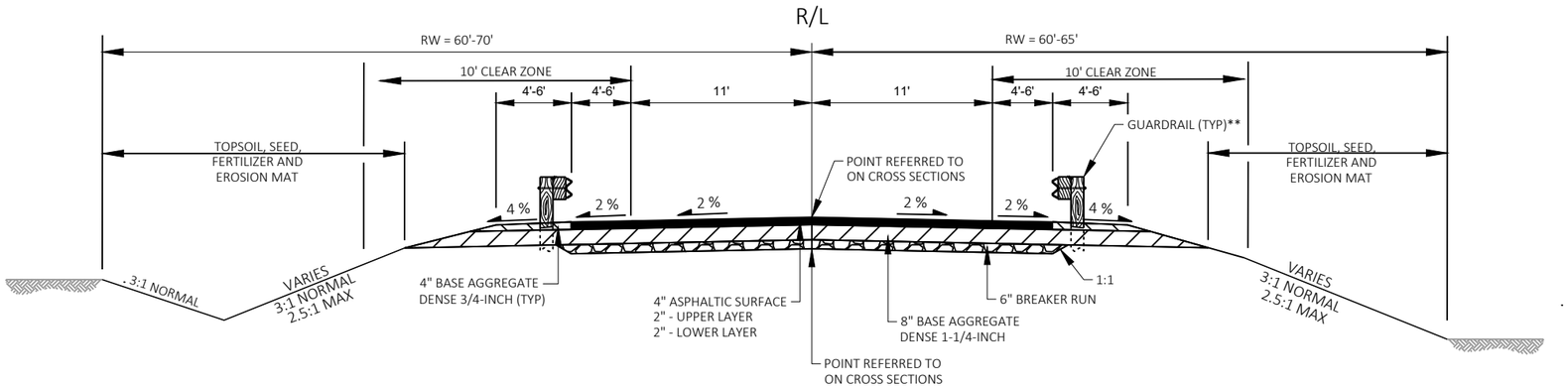
PROJECT NO: 6508-00-71	HWY: MARKET ROAD	COUNTY: OUTAGAMIE	TYPICAL SECTIONS	SHEET 3	E

2



FINISHED TYPICAL SECTION

STA 10+21 - 11+00
STA 13+25 - 14+47

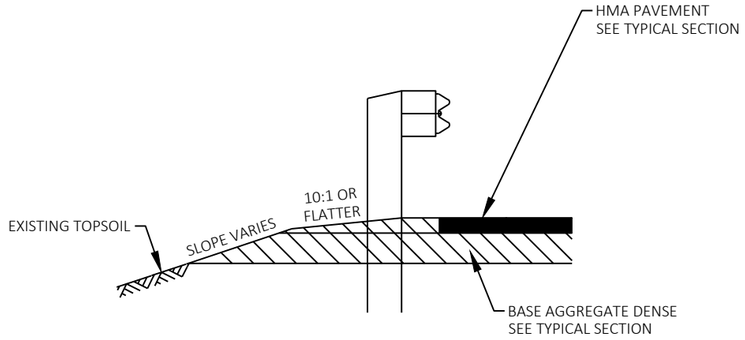


FINISHED TYPICAL SECTION

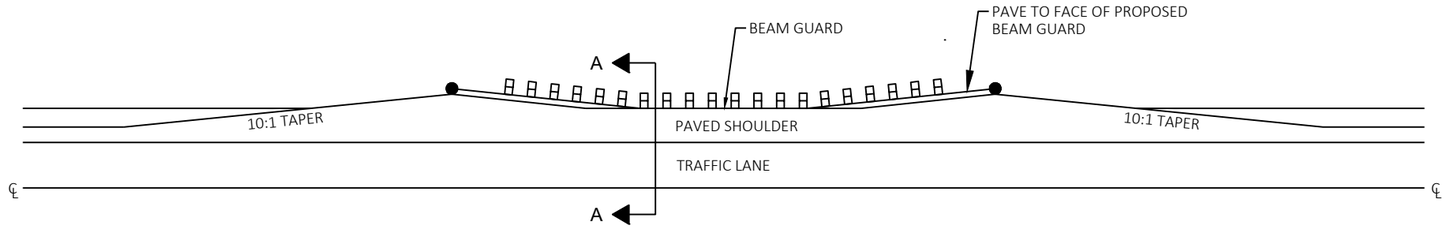
STA 11+00 - 11+94.61
STA 12+65.78 - 13+25

**GUARDRAIL LOCATIONS
STA 10+65 - 13+58 RT
STA 11+03 - 13+95 LT

2



SECTION A-A



DETAIL FOR ASPHALTIC SHOULDER AT BEAM GUARD

2

N

BEAR CREEK

WE ENERGIES
ELECTRICITY

ATT
COMMUNICATIONS

SI

PROPOSED R/W

EXISTING R/W

BEGIN CONSTRUCTION
STA 9+60.00

9+00 10+00 11+00 12+00 13+00 14+00 15+00

MARKET ROAD

END CONSTRUCTION
STA 15+26.00

EXISTING R/W

STR. B-44-501
(PROPOSED)

SI

PROPOSED R/W

SI

SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR (TYP)
SEE STRUCTURE PLANS

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- TEMPORARY DITCH CHECK
- RIP RAP
- TURBIDITY BARRIER
- DIRECTION OF FLOW

PROJECT NO: 6508-00-71	HWY: MARKET ROAD	COUNTY: OUTAGAMIE	EROSION CONTROL	SHEET 6	E

FILE NAME : X:\PROJECTS\OUTAGAMIE\230050 MARKET RD BRIDGE ELLINGTON\DESIGN\C3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 01

PLOT DATE : 1/3/2025 12:48 PM PLOT BY : JOE MALENOFSKI PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

6508-00-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	5.000	5.000
0010	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-44-119	EACH	1.000	1.000
0018	204.0165	Removing Guardrail	LF	104.000	104.000
0022	205.0100	Excavation Common	CY	1,010.000	1,010.000
0026	206.1001	Excavation for Structures Bridges (structure) 01. B-44-501	EACH	1.000	1.000
0028	206.5001	Cofferdams (structure) 01. B-44-501	EACH	1.000	1.000
0030	208.0100	Borrow	CY	1,720.000	1,720.000
0032	210.1500	Backfill Structure Type A	TON	414.000	414.000
0036	213.0100	Finishing Roadway (project) 01. 6508-00-71	EACH	1.000	1.000
0040	305.0110	Base Aggregate Dense 3/4-Inch	TON	120.000	120.000
0042	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	850.000	850.000
0048	311.0110	Breaker Run	TON	640.000	640.000
0054	450.4000	HMA Cold Weather Paving	TON	263.000	263.000
0056	455.0605	Tack Coat	GAL	59.000	59.000
0062	465.0105	Asphaltic Surface	TON	263.000	263.000
0068	502.0100	Concrete Masonry Bridges	CY	252.000	252.000
0070	502.3200	Protective Surface Treatment	SY	343.000	343.000
0072	502.9000.S	Underwater Substructure Inspection (structure) 01. B-44-501	EACH	1.000	1.000
0076	505.0400	Bar Steel Reinforcement HS Structures	LB	7,230.000	7,230.000
0078	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	36,110.000	36,110.000
0080	513.4061	Railing Tubular Type M	LF	150.000	150.000
0082	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000
0108	550.0500	Pile Points	EACH	27.000	27.000
0110	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	3,250.000	3,250.000
0120	606.0300	Riprap Heavy	CY	240.000	240.000
0138	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180.000
0142	614.2300	MGS Guardrail 3	LF	75.000	75.000
0144	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600
0146	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0148	619.1000	Mobilization	EACH	0.400	0.400
0152	624.0100	Water	MGAL	14.600	14.600
0154	625.0100	Topsoil	SY	3,565.000	3,565.000
0162	628.1504	Silt Fence	LF	674.000	674.000
0164	628.1520	Silt Fence Maintenance	LF	674.000	674.000
0166	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0168	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0172	628.2008	Erosion Mat Urban Class I Type B	SY	3,565.000	3,565.000
0174	628.6005	Turbidity Barriers	SY	625.000	625.000
0180	628.7504	Temporary Ditch Checks	LF	94.000	94.000
0188	629.0205	Fertilizer Type A	CWT	2.240	2.240
0192	630.0130	Seeding Mixture No. 30	LB	161.000	161.000
0196	630.0200	Seeding Temporary	LB	96.000	96.000
0198	630.0500	Seed Water	MGAL	41.000	41.000
0202	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000
0208	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0210	638.2602	Removing Signs Type II	EACH	10.000	10.000
0212	638.3000	Removing Small Sign Supports	EACH	10.000	10.000
0214	642.5201	Field Office Type C	EACH	0.400	0.400
0218	643.0420	Traffic Control Barricades Type III	DAY	1,232.000	1,232.000

6508-00-71

Line	Item	Item Description	Unit	Total	Qty
0220	643.0705	Traffic Control Warning Lights Type A	DAY	1,408.000	1,408.000
0222	643.0900	Traffic Control Signs	DAY	1,936.000	1,936.000
0226	643.5000	Traffic Control	EACH	0.400	0.400
0228	645.0111	Geotextile Type DF Schedule A	SY	100.000	100.000
0230	645.0120	Geotextile Type HR	SY	505.000	505.000
0232	646.2020	Marking Line Epoxy 6-Inch	LF	1,391.000	1,391.000
0240	650.4500	Construction Staking Subgrade	LF	496.000	496.000
0242	650.5000	Construction Staking Base	LF	496.000	496.000
0248	650.6501	Construction Staking Structure Layout (structure) 01. B-44-501	EACH	1.000	1.000
0250	650.9911	Construction Staking Supplemental Control (project) 01. 6508-00-71	EACH	1.000	1.000
0254	650.9920	Construction Staking Slope Stakes	LF	496.000	496.000
0256	690.0150	Sawing Asphalt	LF	44.000	44.000
0260	715.0502	Incentive Strength Concrete Structures	DOL	1,510.000	1,510.000
0262	999.2005.S	Maintaining Bird Deterrent System (station) 01. Sta 12+30	EACH	1.000	1.000
0264	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,200.000	1,200.000
0266	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	600.000	600.000
0272	SPV.0090	Special 01. Flashing Stainless Steel	LF	135.000	135.000
0278	SPV.0195	Special 01. Select Crushed Material for Travel Corridor	TON	16.000	16.000

3

GRUBBING

CATEGORY	STATION	TO	STATION	LOCATION	201.0205 GRUBBING STA
0010	10+21	-	14+47	MARKET ROAD	5
				TOTAL 0010	5

BASE AGGREGATE

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	624.0100 WATER MGAL
0010	10+21	-	11+94	MARKET ROAD	55	410	310	7.0
0010	12+66	-	14+47	MARKET ROAD	65	440	330	7.6
				TOTAL 0010	120	850	640	14.6

3

ASPHALTIC ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON
0010	10+21	-	11+94	MARKET ROAD	129	29	129
0010	12+66	-	14+47	MARKET ROAD	134	30	134
				TOTAL 0010	263	59	263

MGS GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
0010	10+65	-	11+93	MARKET ROAD RT	-	37.5	39.4	1
0010	11+03	-	11+93	MARKET ROAD LT	-	-	39.4	1
0010	12+00	-	12+52	MARKET ROAD LT & RT	104	-	-	-
0010	12+65	-	13+95	MARKET ROAD LT	-	37.5	39.4	1
0010	12+65	-	13+58	MARKET ROAD RT	-	-	39.4	1
				TOTAL 0010	104	75	157.6	4

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (6) FACTOR 1.25	MASS ORDINATE +/- (7)	WASTE	208.0100 BORROW	COMMENT
DIVISION 1												
MARKET ROAD	09+60/11+95		740	0	53	687	1,021	1,276	-589	0	590	
DIVISION 1 SUBTOTAL			740	0	53	687	1,021	1,276	-589	0	590	
DIVISION 2												
MARKET ROAD	12+65/15+26		270	0	53	217	1,073	1,341	-1,124	0	1,130	
DIVISION 2 SUBTOTAL			270	0	53	217	1,073	1,341	-1,124	0	1,130	
GRAND TOTAL			1,010	0	106	904	2,094	2,618	-1,714	0	1,720	
TOTAL COMMON EXC			1,010									

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

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

(3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

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

(6) EXPANDED FILL FACTOR = 1.25

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

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

3

RESTORATION

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0205 FERTILIZER TYPE A CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
0010	9+60	-	11+94	MARKET ROAD	1,750	1,750	1.10	79	47	20
0010	12+66	-	15+26	MARKET ROAD	1,490	1,490	0.94	67	40	17
0010			UNDISTRIBUTED		325	325	0.20	15	9	4
				TOTAL 0010	3,565	3,565	2.24	161	96	41

3

EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.6005 TURBIDITY BARRIERS SY	628.7504 TEMPORARY DITCH CHECKS LF
0010	9+60	-	12+15	MARKET ROAD	140	140	-	-	210	60
0010	12+15	-	15+26	MARKET ROAD	474	474	-	-	360	24
0010			UNDISTRIBUTED		60	60	4	4	55	10
				TOTAL 0010	674	674	4	4	625	94

SIGNING

CATEGORY	SIGN NO	LOCATION	SIGN MESSAGE	SIGN CODE	SIZE	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	1-1	RT	5 TON BRIDGE x MILES AHEAD	-	-	-	-	2	2	LOCATED SOUTH OF PROJECT LIMITS
0010	1-2	RT	WEIGHT LIMIT 5 TONS	-	-	-	-	1	1	
0010	1-3	RT	BRIDGE HASH MARKS	W5-52R	12"X36"	1	3	1	1	
0010	1-4	LT	BRIDGE HASH MARKS	W5-52L	12"X36"	1	3	1	1	
0010	1-5	LT	BRIDGE HASH MARKS	W5-52R	12"X36"	1	3	1	1	
0010	1-6	LT	WEIGHT LIMIT 5 TONS	-	-	-	-	1	1	
0010	1-7	RT	BRIDGE HASH MARKS	W5-52L	12"X36"	1	3	1	1	
0010	1-8	LT	5 TON BRIDGE x MILES AHEAD	-	-	-	-	2	2	LOCATED NORTH OF PROJECT LIMITS
					TOTAL 0010	4	12	10	10	

3

TRAFFIC CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	DURATION** DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE EACH	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0900 TRAFFIC CONTROL SIGNS EACH	643.5000 TRAFFIC CONTROL EACH
0010	9+60	-	15+26	MARKET ROAD	88	1,232	14	1,408	16	1,936	22	0.4
				TOTAL 0010		1,232		1,408		1,936		0.4

** FOR INFORMATION ONLY

PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	646.2020 MARKING LINE EPOXY 6-INCH LF	REMARKS
0010	10+21	-	14+47	MARKET ROAD	852	WHITE EDGELINE
0010	10+21	-	14+47	MARKET ROAD	426	YELLOW CENTERLINE, SOLID
0010	10+21	-	14+47	MARKET ROAD	113	YELLOW CENTERLINE, 12.5' SKIPS
				TOTAL 0010	1,391	

3

CONTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.6501.01 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) (01. B-44-501) EACH	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 6508-00-71) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	9+60	-	11+95	MARKET ROAD	235	235	-	-	235
0010	12+65	-	15+26	MARKET ROAD	261	261	-	-	261
0010	9+60	-	15+26	MARKET ROAD	-	-	-	1	-
				TOTAL 0010	496	496	0	1	496
0020	11+95	-	12+65	MARKET ROAD	-	-	1	-	-
				TOTAL 0020	0	0	1	0	0
				PROJECT TOTAL	496	496	1	1	496

SAWING

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF
0010	10+21	-	10+21	MARKET ROAD	22
0010	14+47	-	14+47	MARKET ROAD	22
				TOTAL 0010	44

BIRD DETERRENT SYSTEM

CATEGORY	STATION	TO	STATION	LOCATION	999.2000.S.01 INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM (STATION) (01. STA 12+30) EACH
0010	12+30	-	12+30	MARKET ROAD	1
				TOTAL 0010	1

CONVENTIONAL SYMBOLS

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

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND SURVEY MONUMENT (SEE FOUND MONUMENT TABLE) IP
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN

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

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

PARCEL NUMBER 2S
UTILITY NUMBER 40
PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

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

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		
CONCRETE	CONC	RIGHT	RT
COUNTY	CO	RIGHT OF WAY	R/W
COUNTY TRUNK HIGHWAY	CTH	SECTION	SEC
DISTANCE	DIST	SEPTIC VENT	SEPV
CORNER	COR	SQUARE FEET	SF
DOCUMENT NUMBER	DOC	STATE TRUNK HIGHWAY	STH
EASEMENT	EASE	STATION	STA
EXISTING	EX	TELEPHONE PEDESTAL	TP
GAS VALVE	GV	TEMPORARY LIMITED EASEMENT	TLE
GRID NORTH	GN		
HIGHWAY EASEMENT	HE	TRANSPORTATION PROJECT PLAT	TPP
IDENTIFICATION	ID	UNITED STATES HIGHWAY	USH
LAND CONTRACT	LC	VOLUME	V
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

NOTES:

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

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

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, 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

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES

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

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. 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 TOWN OF ELLINGTON

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

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
6508-00-00		
FEDERAL PROJECT NUMBER	4.00	2

PLAT OF RIGHT OF WAY REQUIRED FOR

T ELLINGTON, MARKET ROAD BEAR CREEK BRIDGE

LOCAL STREET	OUTAGAMIE COUNTY

CONSTRUCTION PROJECT NUMBER
6508-00-71



END RELOCATION ORDER
STA 15+49.57
Y = 600,729.748
X = 793,374.649

STRUCTURE B-44-501
STA 11+94.61 - STA 12+65.78

BEGIN RELOCATION ORDER
STA 9+00.16
Y = 600,080.366
X = 793,380.263

LAYOUT
SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.042 MILES

APPROVED
FOR
TOWN OF ELLINGTON
5-9-24 Joe Schumacher
DATE (SIGNATURE)

JF ENGINEERING, INC

THE SURVEY IS PREPARED AT THE REQUEST OF THE TOWN OF ELLINGTON THE TOPOGRAPHY AND UTILITY SURVEY WAS PERFORMED IN 2023 THIS THIS SURVEY IS ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF

WISCONSIN
James R. Cappeart
S-3044
Green Bay
Wis.
LAND SURVEYOR

James Cappeart 5/8/2024
JAMES CAPPEART DATE
REGISTRATION NUMBER S-3044

FILE NAME X:\PROJECTS\OUTAGAMIE\230050 MARKET RD BRIDGE ELLINGTON\DESIGN\C3D\PW\DWG\040101 TPP.DWG PLOT DATE 5/9/2024 12:56 PM PLOT BY JAMES CAPPEART PLOT NAME

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER (S)	INTEREST(S) REQUIRED	FEE R/W S.F. REQUIRED		
			NEW	EXISTING	TOTAL
1	ROBERT J NUSSBAUM MARY P NUSSBAUM	FEE	5115	7769	12884
2	JEANNIE M BRICE	FEE	8577	17077	25654
3	KEVIN A GAUERKE LAUREN A GAUERKE	FEE	14490	21421	35911

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

COMPUTED
30" ALUMINUM
COUNTY MONUMENT
Y=600386.790
X=790824.840

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

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

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

FOUND IRON PINS ARE 3/4" REBAR, UNLESS OTHERWISE NOTED IN THE FOUND MONUMENTATION TABLE.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE TOWN OF ELLINGTON.

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.

EXISTING HIGHWAY RIGHT OF WAY HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE.

EXISTING RIGHT OF WAY FOR MARKET ROAD ESTABLISHED FROM CSM 7567 AND DOC 503375

TOWN

ELLINGTON

NE-SE

SE-NE

NW-SW

SW-NW

FOUND
2.5" MAGNAIL
W/BRASS WASHER
Y=597680.518
X=793388.766

FOUND
2.5" MAGNAIL
W/BRASS WASHER
Y=602957.605
X=793401.528

GN

BEAR CREEK

FEE WATERWAY
570 S.F.

FEE WATERWAY
457 S.F.

EXISTING RIGHT OF WAY

SECTION LINE

SEC. COR. TO QTR. COR.
N0°12'56"W, 2634.81'

R/L BEARING N0°29'43"W

R/L = SECTION LINE
STA 10+07.29
Y=600187.497
X=793379.337

R/L=SECTION LINE TO QTR. COR.
N0°12'56"W, 127.82'

R/L PNT 122 TO PNT 120
N88°23'49"W, 70.05'

QTR. COR. TO PNT 120
S88°23'49"E, 2484.35'

QTR. COR. TO QTR. COR.
S88°23'49"E, 2555.02'

STRUCTURE
B-44-S01
REQUIRED

SEE DETAIL A

SEE DETAIL B

PNT 119 TO QTR. COR.
N89°22'55"W, 64.39'

QTR. COR. TO PNT 118
N0°29'30"E, 414.38'

SEC. COR. TO QTR. COR.
S0°29'30"W, 2642.39'

SEC. COR. TO PNT 118
S0°29'30"W, 2228.01'

QTR. COR. TO PNT 116
S89°22'55"E, 2588.55'

QTR. COR. TO QTR. COR.
N89°22'55"W, 2652.94'

AT&T COMMUNICATIONS

WE ENERGIES(TYP)

MARKET ROAD

33'

41.25'

LOT 2
CSM 7567
V46 P7567
DOC 2138063

FEE
6669 S.F.

FEE
7821 S.F.

FOUND
2.5" MAGNAIL
W/BRASS WASHER
Y=600315.313
X=793378.856

FOUND
BERNTSEN
MONUMENT
Y=600286.700
X=796031.640

DETAIL A

SECTION LINE
SEC. COR. TO PNT 117
N0°12'56"W, 2399.86'
PNT 117 TO R/L=SECTION LINE
N0°12'56"W, 107.13'
MARKET ROAD
9+00
R/L BEARING
N0°29'43"W

DETAIL B

R/L MARKET ROAD
MARKET ROAD
QTR. COR. TO R/L PNT 122
N88°23'49"W, 0.62'
SECTION LINE

COURSE TABLE		
COURSE	BEARING	DISTANCE
117-101	S89° 47' 04"W	33.00'
101-102	N00° 12' 56"W	49.78'
102-103	N20° 40' 39"W	106.43'
103-120	N00° 29' 43"W	87.70'
120-104	N00° 29' 43"W	12.30'
104-105	N05° 12' 55"E	100.50'
105-106	N00° 29' 43"W	150.00'
106-107	N05° 12' 55"E	100.50'
107-121	N24° 25' 08"E	38.59'
121-108	N00° 29' 30"E	15.14'
108-109	S89° 30' 30"E	33.49'

COURSE TABLE		
COURSE	BEARING	DISTANCE
109-118	S89° 30' 30"E	7.76'
118-110	S89° 30' 30"E	33.00'
110-111	S00° 29' 30"W	48.87'
111-112	S11° 51' 07"E	102.00'
112-113	S00° 29' 43"E	150.00'
113-114	S03° 21' 28"E	100.12'
114-119	S00° 29' 43"E	16.14'
119-115	S00° 29' 43"E	183.86'
115-116	S32° 32' 51"W	59.65'
116-100	S89° 47' 04"W	32.48'
100-117	S89° 47' 04"W	0.52'

R/W STATION & OFFSET TABLE		
POINT	STATION	OFFSET
100	9+00.16	0.00' RT
101	9+00.32	33.52' LT
102	9+50.10	33.28' LT
103	10+50.00	70.00' LT
104	11+50.00	70.00' LT
105	12+50.00	60.00' LT
106	14+00.00	60.00' LT
107	15+00.00	50.00' LT
108	15+50.00	25.23' LT
109	15+49.57	0.00' RT
110	15+48.86	40.76' RT
111	15+00.00	39.92' RT

R/W STATION & OFFSET TABLE		
POINT	STATION	OFFSET
112	14+00.00	60.00' RT
113	12+50.00	60.00' RT
114	11+50.00	65.00' RT
115	9+50.00	65.00' RT
116	9+00.00	32.48' RT
117	9+00.16	0.52' LT
118	15+49.43	7.76' RT
119	11+33.86	65.00' RT
120	11+37.70	70.00' LT
121	15+35.00	33.74' LT
122	11+35.13	0.00' RT

REVISION DATE

DATE 5/9/2024

GRID FACTOR N/A

SCALE: FEET 0 25 50

HWY: LOCAL ROAD

COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 6508-00-00

CONSTRUCTION PROJECT NUMBER 6508-0071

PLAT SHEET 4.01

PS&E SHEET 13 E

FILE NAME 040101-RP.DWG

LAYOUT NAME 040101-rp

PLOT DATE 5/9/2024 12:58 PM PLOT BY JAMES CAPPEART PLOT NAME PLOT SCALE 1 IN:50 FT

WISDOT CADDS 5-FEET_S

BENCH MARKS			
NO.	STATION	ELEV.	DESCRIPTION
BM1	8+56 - 33' LT	776.64	R/R SPIKE IN POWER POLE
BM2	11+44 - 31' LT	774.94	R/R SPIKE IN POWER POLE
BM3	12+47 - 16' LT	774.73	R/R SPIKE IN TIMBER PILING

CONTROL POINTS				
NO.	STATION	Y COORDS	X COORDS	DESCRIPTION
CP900	14+61.7, 13.2' RT	600641.739	793362.161	3/4" REBAR
CP901	12+70.1, 13.6' LT	600450.161	793363.478	3/4" REBAR
CP902	10+99.7, 14.8' RT	600279.992	793393.332	3/4" REBAR
CP903	9+61.5, 13.8' RT	600141.818	793393.479	3/4" REBAR

ROBERT J AND MARY P NUSSBAUM

BEGIN CONSTRUCTION STA 9+60

EXISTING R/W

MARKET ROAD

N0°29'43"W 650.06'

STA 9+59.90 14.97' RT CP#903

STA 9+99.55 -15.13' LT

STA 10+21 MATCH EXISTING SAW CUT REQ'D

STA 10+21 - STA 11+00 REMOVE AND REPLACE HMA PAVEMENT

STA 10+65.03 17.00' RT

STA 11+02.53 -17.00' LT

STA 11+18.12 15.00' RT CP#902

STA 11+55.62 -15.00' LT

BM#2

BM#3

CP#901

STA 13+04.77 15.00' RT

STA 13+42.27 -15.00' LT

STA 13+57.86 17.00' RT

STA 13+95.36 -17.00' LT

CP#900

STA 14+47 MATCH EXISTING SAW CUT REQ'D

STA 14+79.23 14.85' RT

STA 15+25.54 -14.26' LT

END CONSTRUCTION STA 15+26

EXISTING R/W

1-1 5 TON BRIDGE 0.5 MILES AHEAD REMOVE; 5 TON BRIDGE 1 MILES AHEAD REMOVE

SIGNS LOCATED ON MARKET ROAD AT WEGE ROAD AND CTH O

1-2 WEIGHT LIMIT 5 TONS REMOVE

1-3 W5-52R 12"X36" REMOVE

1-4 W5-52L 12"X36" REMOVE

1-5 REMOVE W5-52R 12"X36"

1-6 WEIGHT LIMIT 5 TONS REMOVE

1-7 REMOVE W5-52L 12"X36"

1-8 5 TON BRIDGE 0.5 MILES AHEAD REMOVE; 5 TON BRIDGE 1.5 MILES AHEAD REMOVE

SIGNS LOCATED ON MARKET ROAD AT ROCK ROAD AND CTH S

BEAR CREEK

ATT COMMUNICATIONS

WE-ENERGIES ELECTRICITY

WETLAND BOUNDARY (TYP)

JEANNIE M BRICE

KEVIN A AND LAUREN A GAUERKE

KEVIN A AND LAUREN A GAUERKE

SLOPE INTERCEPT (TYP)

SLOPE INTERCEPT (TYP)

BEGIN PROJECT
STA 11+00.00
Y = 600,280.200
X = 793,378.535

END PROJECT
STA 13+25.00

STA 13+25 - STA 14+47 REMOVE AND REPLACE HMA PAVEMENT

ALIGNMENT STATIONING
PI: 8+99.94
Y=600,080.147
X=793,380.265

ALIGNMENT STATIONING
PI: 15+50.00
Y=600,730.183
X=793,374.645

PROPOSED PROFILE

EXISTING PROFILE

0.25%

-0.30%

-0.33%

STA 11+00.00 EL 779.44

STA 11+85.00 EL 779.64

STA 12+75.00 EL 779.37

STA 13+25.00 EL 779.21

HIGH WATER ELEV = 778.07 100

HIGH WATER ELEV = 773.51 2

OBSERVED WATER ELEVATION
ELEV = 767.33
(6-29-2023)

EXISTING PROFILE ELEVATIONS

PROPOSED PROFILE ELEVATIONS

780 / 775 / 770 / 765

779.23 779.46 779.55 779.44 779.44 779.32 779.56 779.00 779.60 770.97 779.45 779.17 779.29 779.22 779.14 779.06 778.95

9+50 10+00 11+00 12+00 13+00 14+00 15+00

STA 12+26.06
REMOVE STRUCTURE P-44-119
SINGLE SPAN CONCRETE DECK GIRDER ON TIMBER
RETAINING ABUTMENTS
52'OVERALL LENGTH

STA 12+30.20
STRUCTURE B-44-501
TWO SPAN FLAT SPAN BRIDGE
72.50' LONG
30' CLEAR ROADWAY

PROJECT NO: 6508-00-71	HWY: MARKET ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: MARKET ROAD	SHEET 14	E

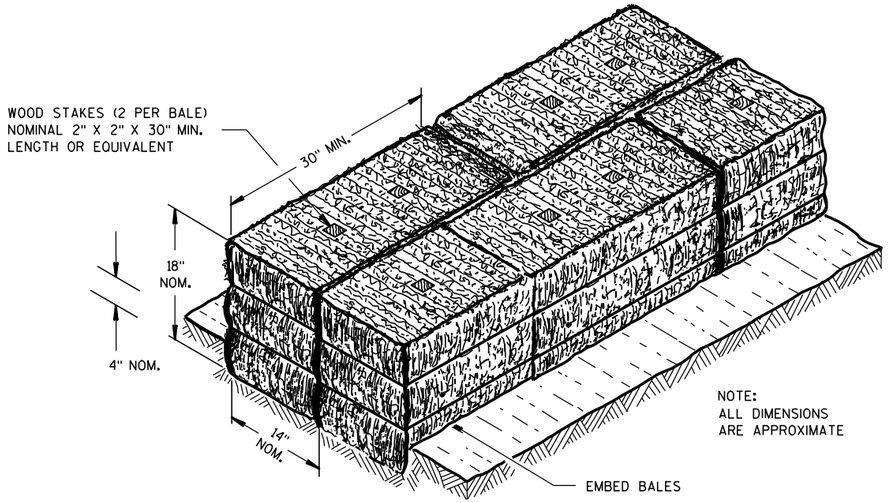
FILE NAME : X:\PROJECTS\OUTAGAMIE\230050 MARKET RD BRIDGE ELLINGTON\DESIGN\C3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - PP-01

PLOT DATE : 1/31/2025 2:38 PM PLOT BY : JOE MALENOFSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

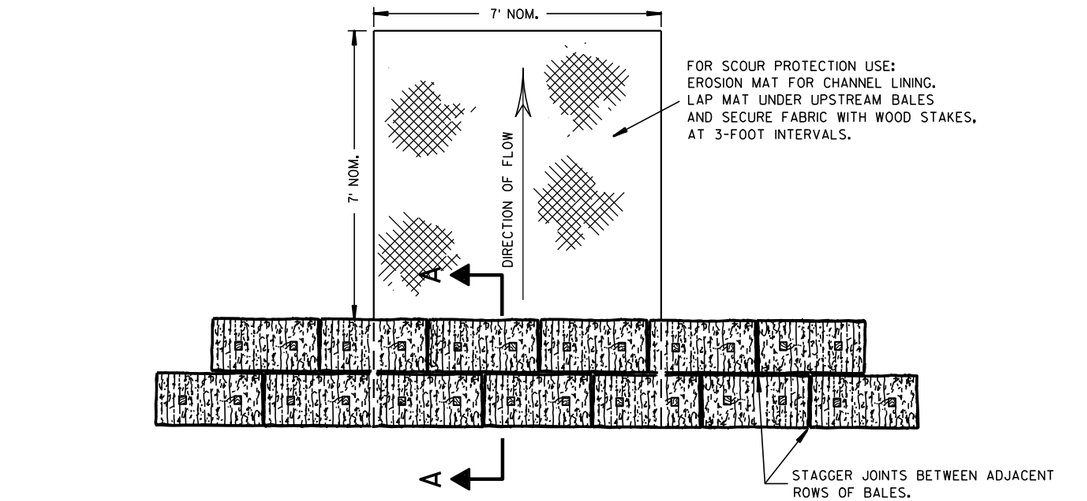
WISDOT/CADDS SHEET 44

Standard Detail Drawing List

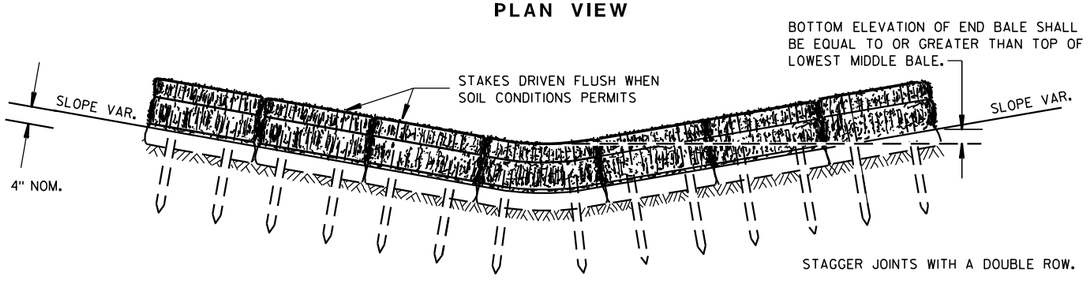
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
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)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



SECTION A-A



PLAN VIEW



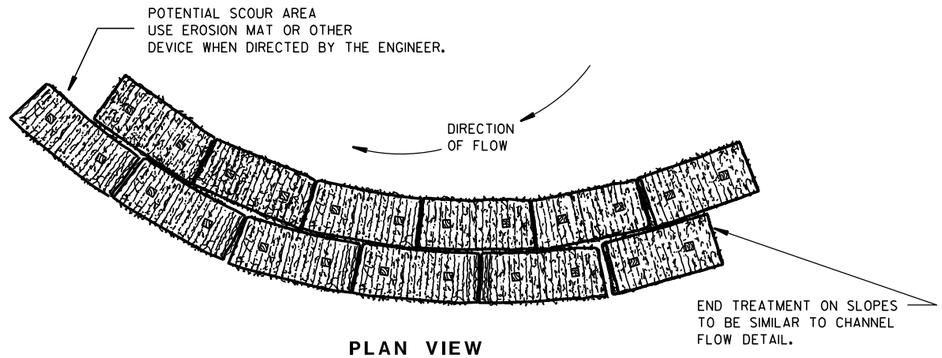
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

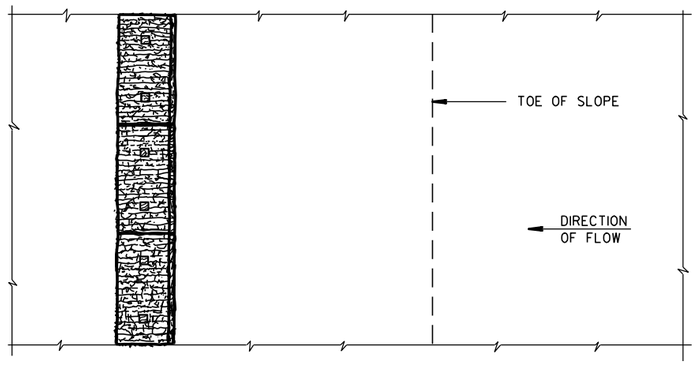
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

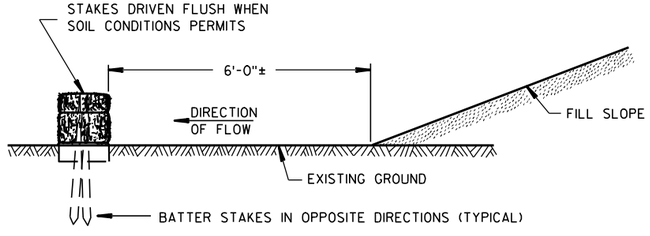


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

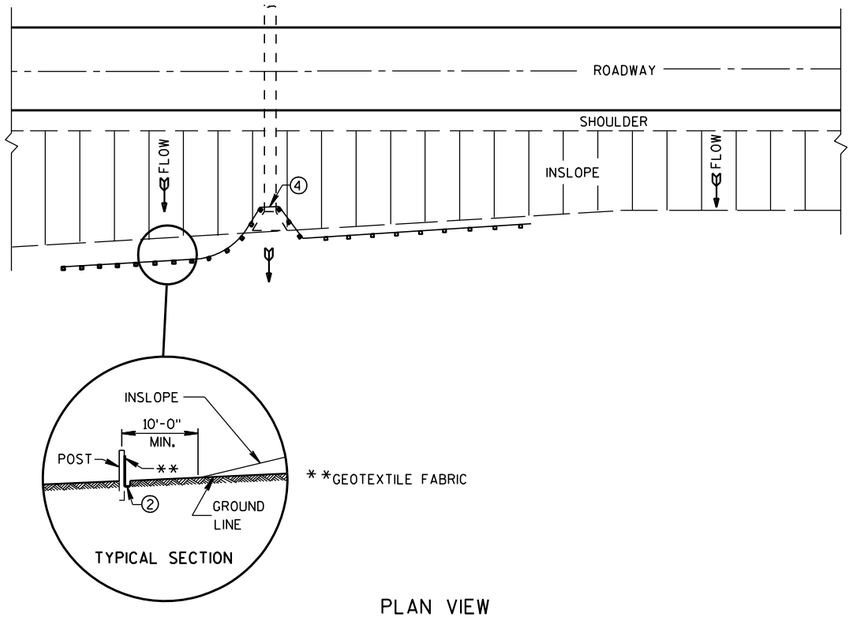
FHWA

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S.D.D. 8 E 8-3

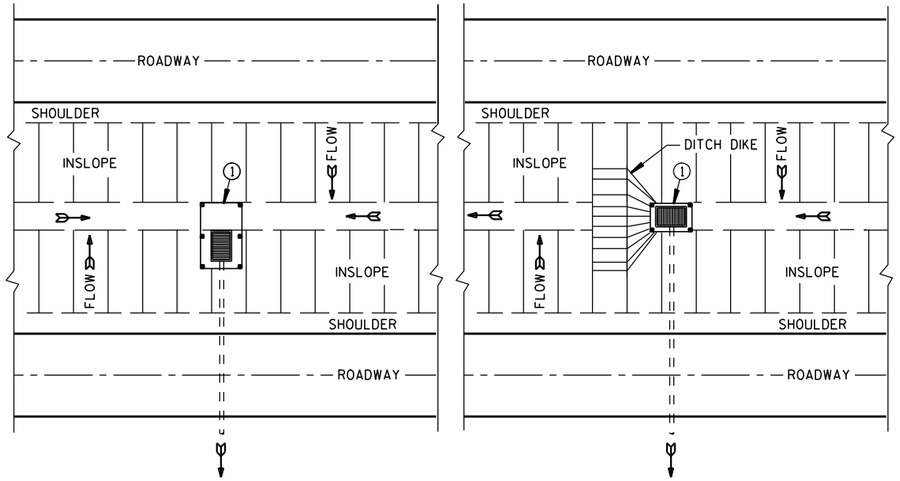
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



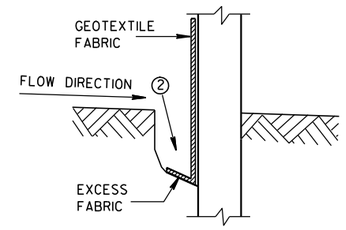
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

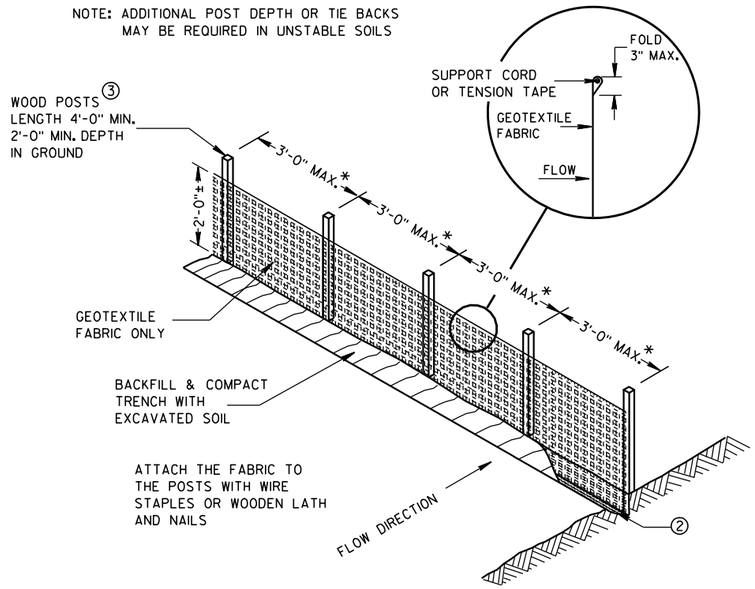
GENERAL NOTES

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

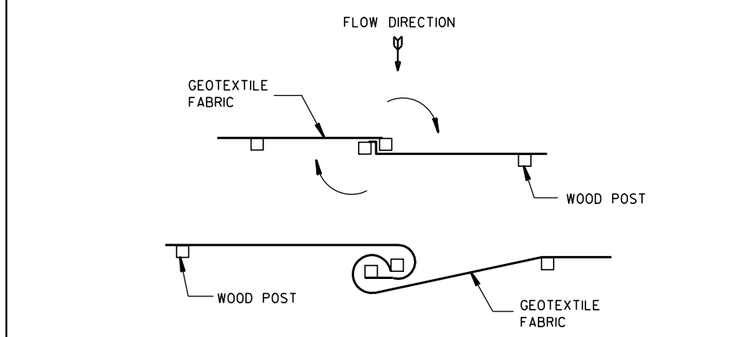
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL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



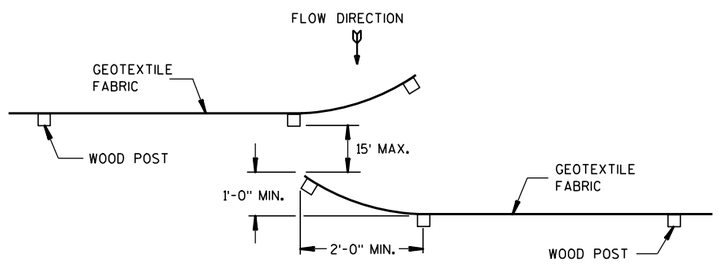
TRENCH DETAIL



SILT FENCE

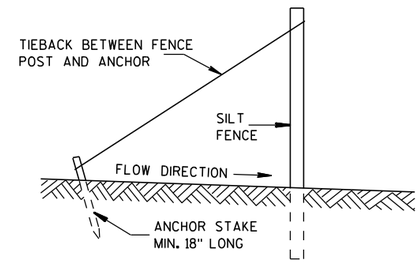


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

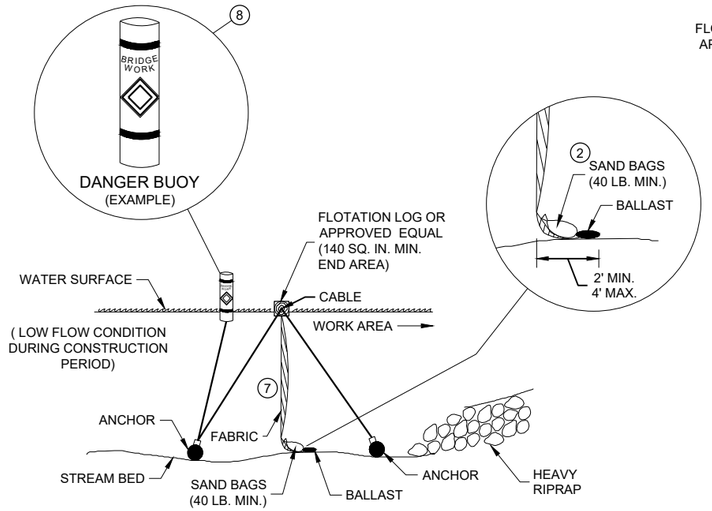
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

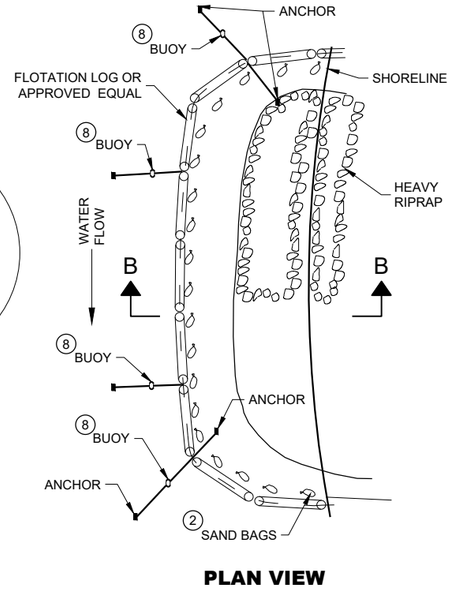
S.D.D. 8 E 9-6

6

S.D.D. 8 E 9-6

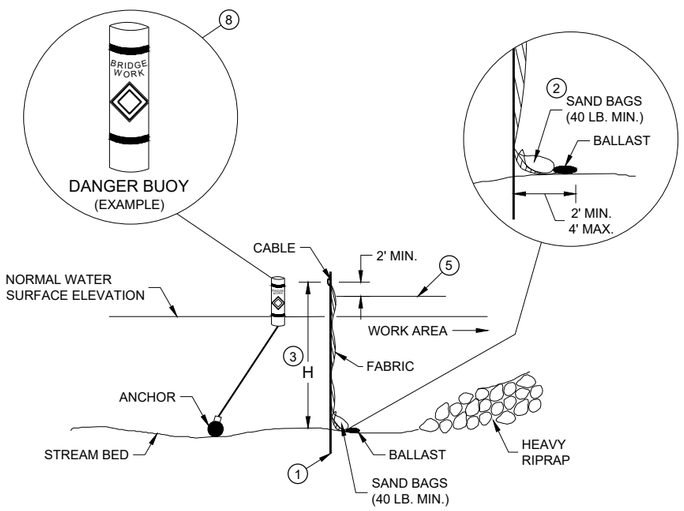


SECTION B - B

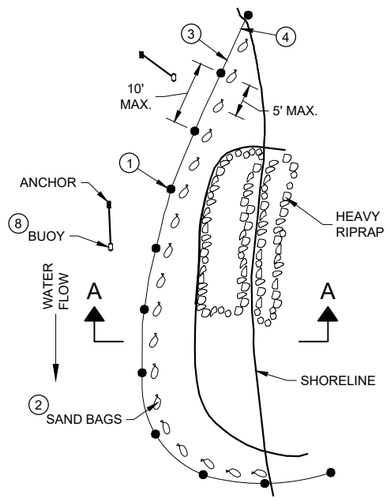


PLAN VIEW

TURBIDITY BARRIER - FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A - A



PLAN VIEW

TURBIDITY BARRIER - STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

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

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

(1) DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

(2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

(3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.

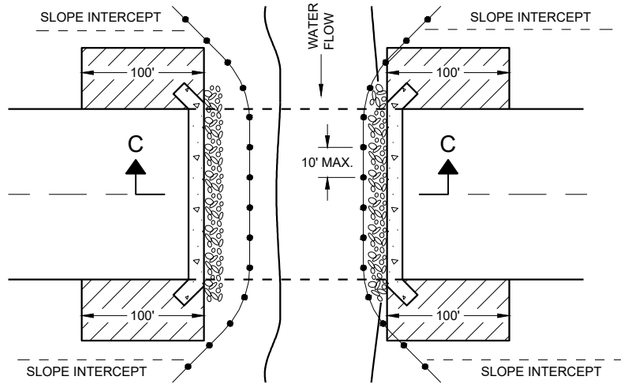
(4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

(5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.

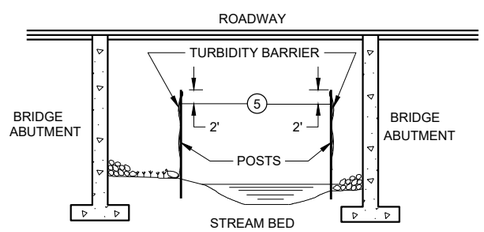
(6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.

(7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

(8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

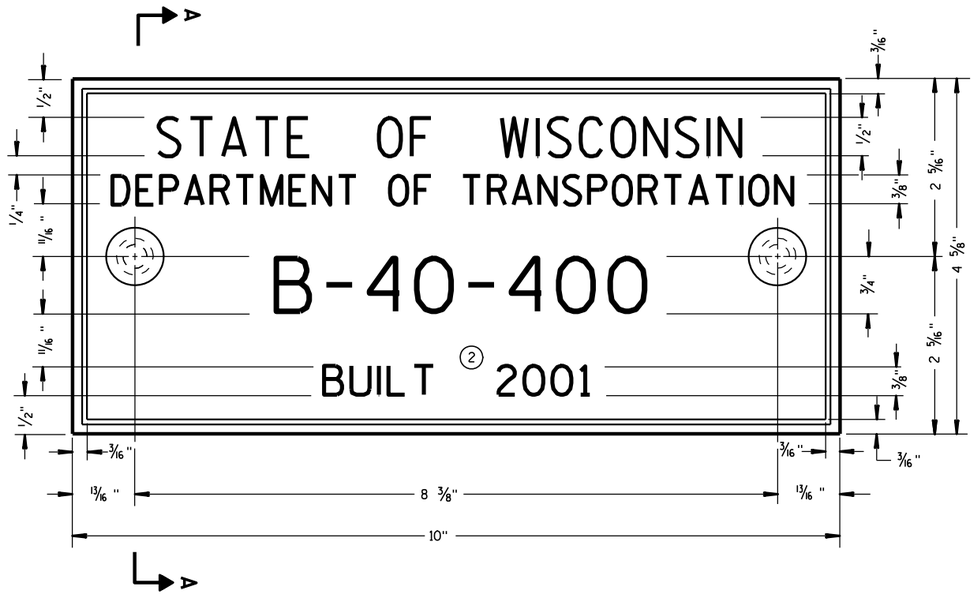
TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/4/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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SDD 08E11 - 02



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

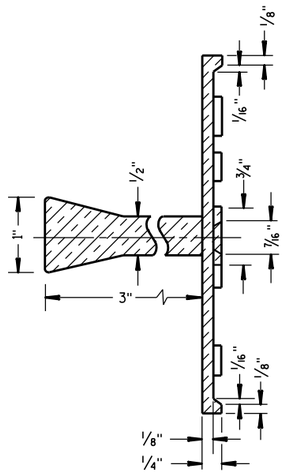
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

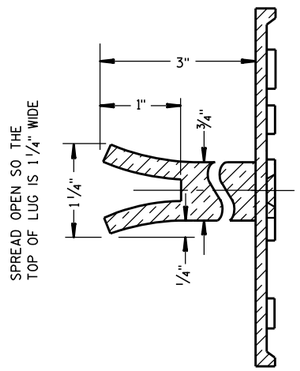
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

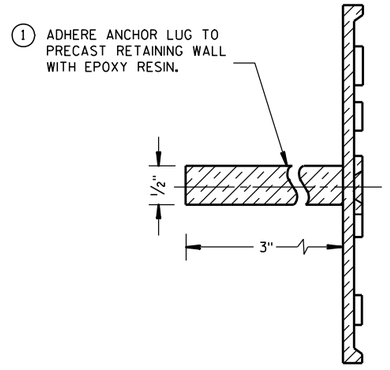
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE

/S/ Scot Beck CHIEF STRUCTURAL DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 12 A 3-10

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

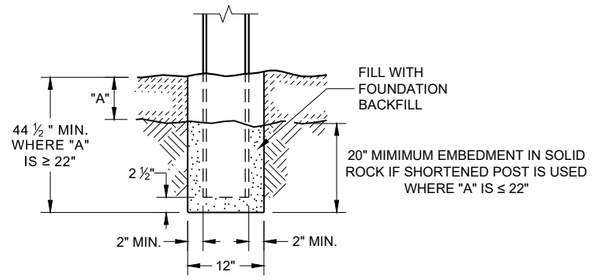
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL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

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

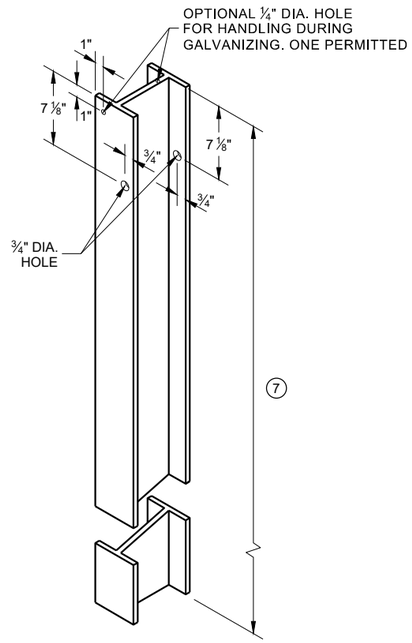
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

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

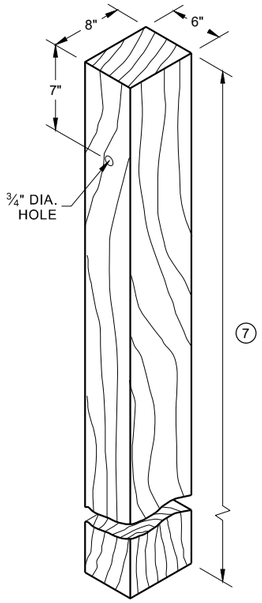
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



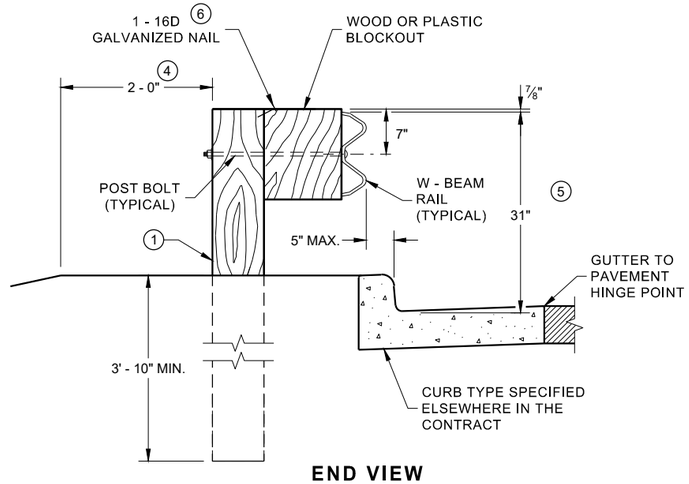
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



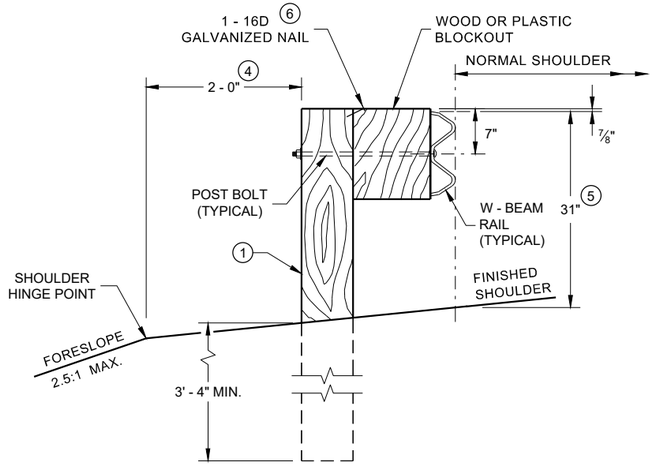
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



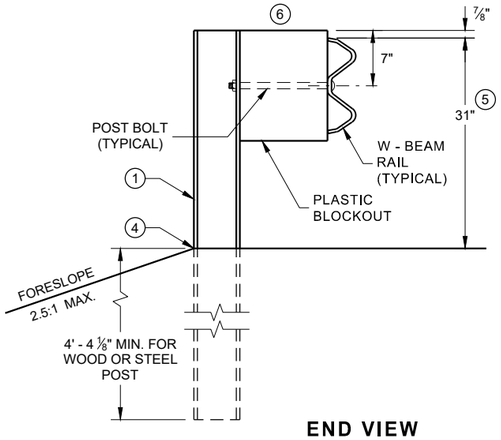
WOOD POST (6" X 8") NOMINAL (1)



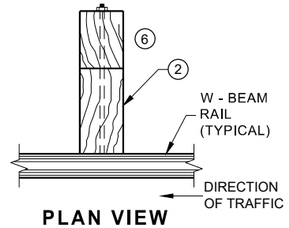
END VIEW
LOCATED ALONG A CURBED ROADWAY



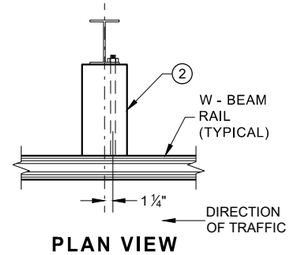
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



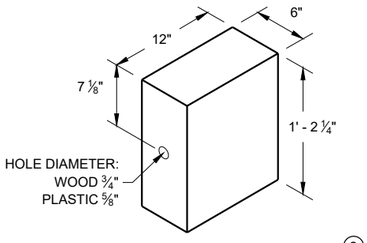
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM

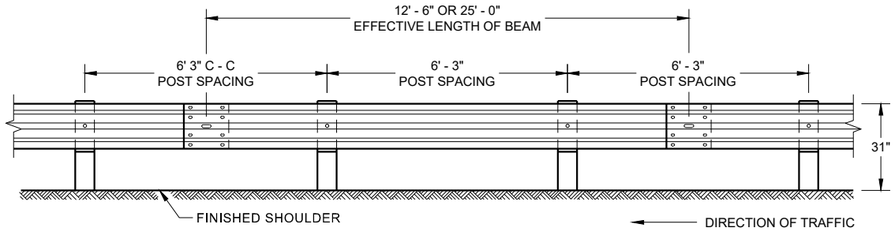


WOOD OR PLASTIC BLOCKOUT (2)

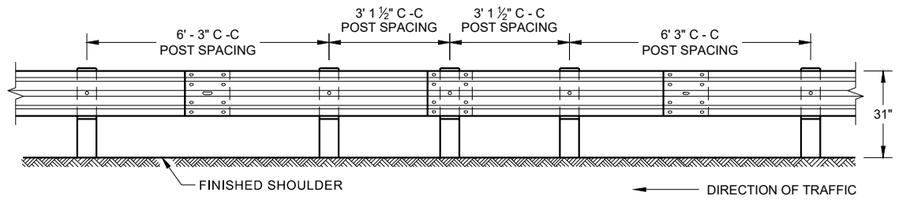
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

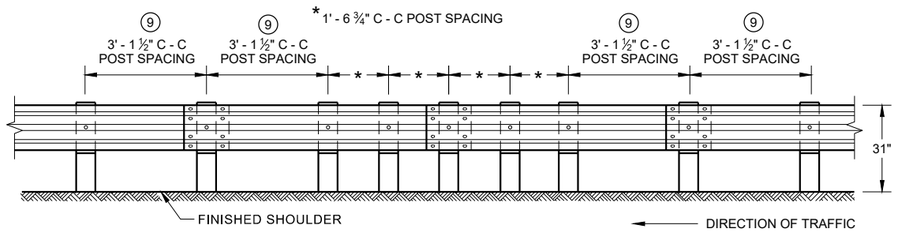
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SDD 14B42 - 07a



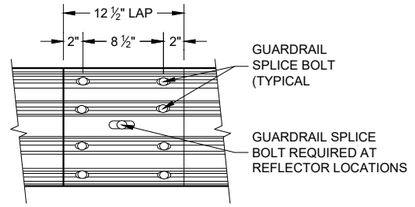
FRONT VIEW
POST SPACING STANDARD INSTALLATION



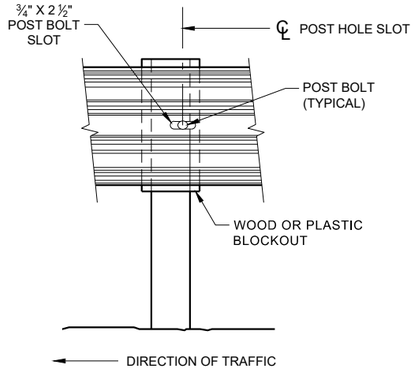
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



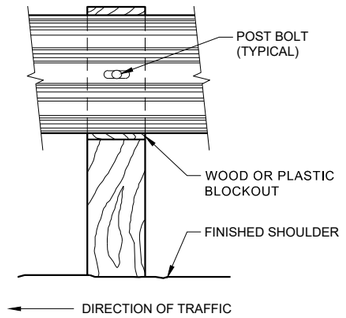
FRONT VIEW
QUARTER POST SPACING (QS)



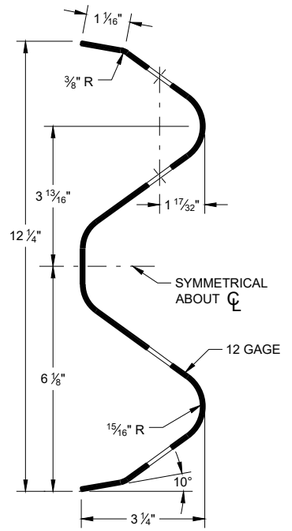
FRONT VIEW
MID-SPAN BEAM SPLICE



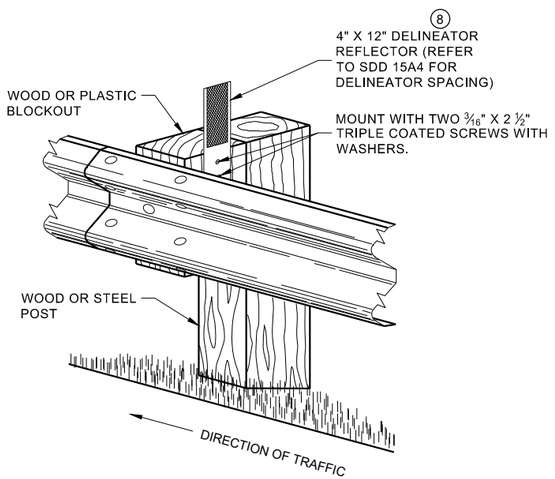
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

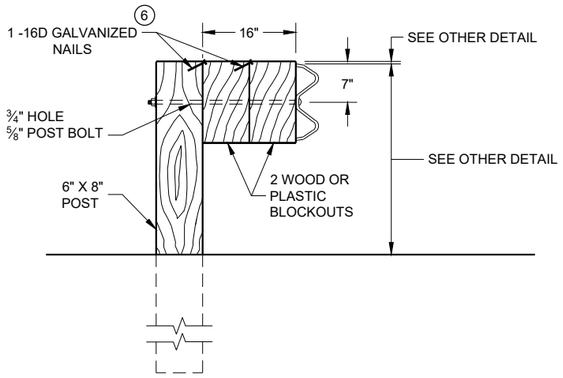
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

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

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

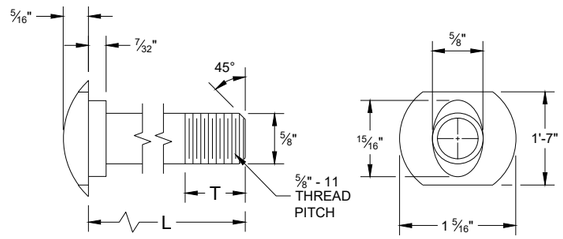


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

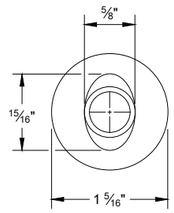
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

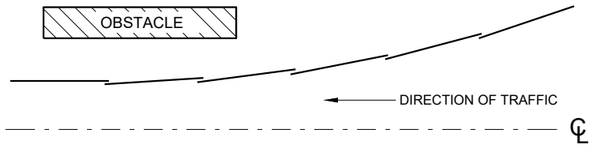


POST BOLT TABLE

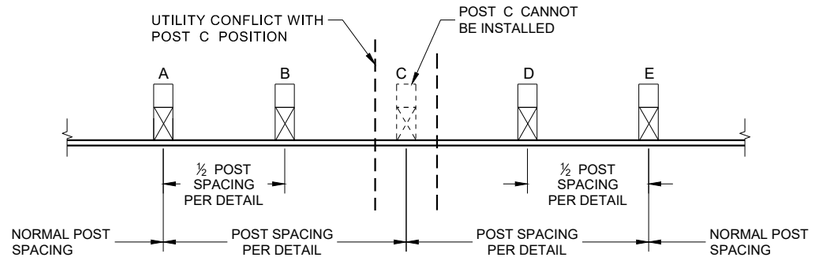
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



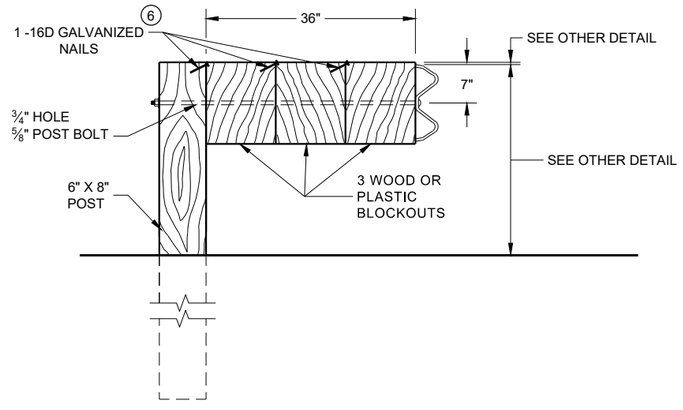
ALTERNATE BOLT HEAD



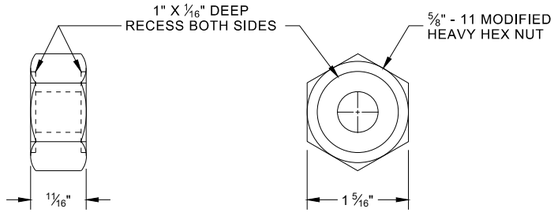
PLAN VIEW
BEAM LAPPING DETAIL



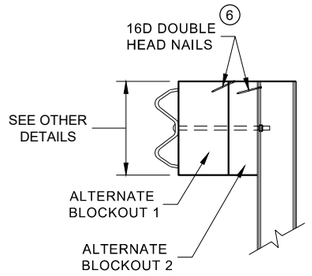
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



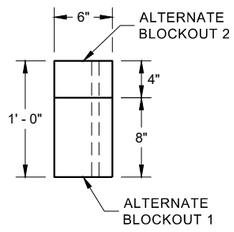
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

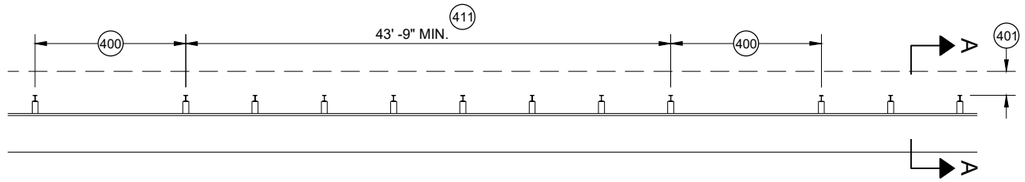
ALTERNATE WOOD BLOCKOUT DETAIL

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

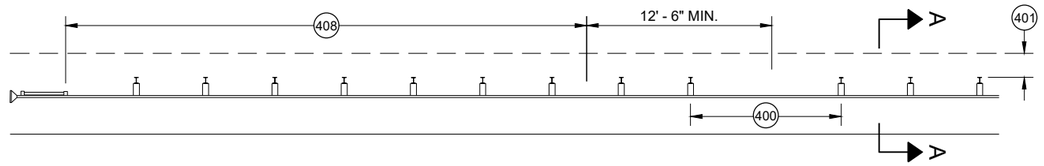
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

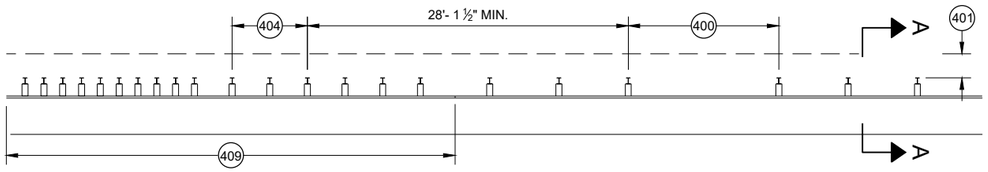
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL



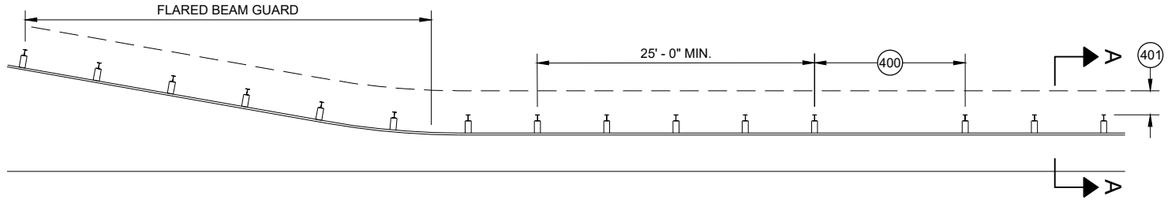
MISSING POST IN MGS GUARDRAIL



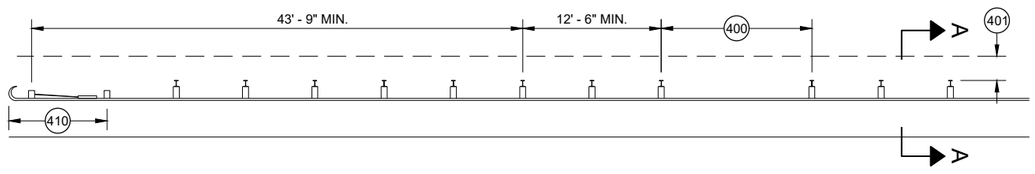
MISSING POST IN MGS GUARDRAIL NEAR EAT



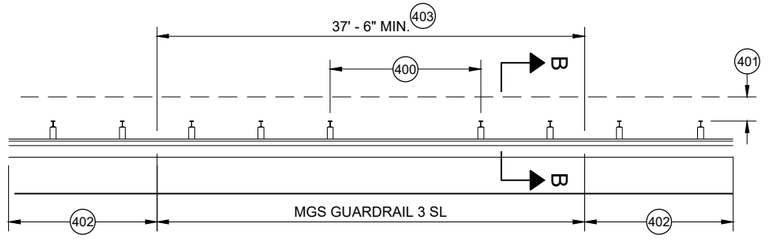
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

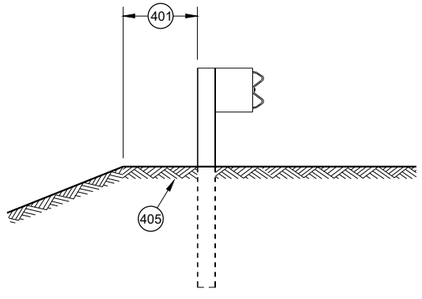


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

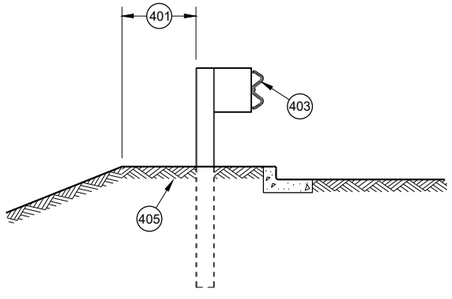


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(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

(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.

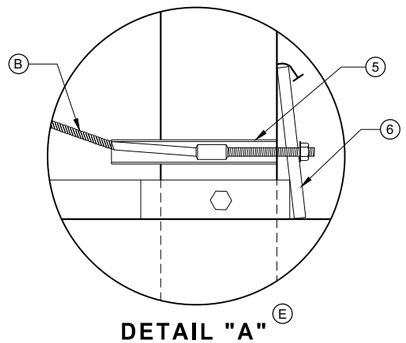
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

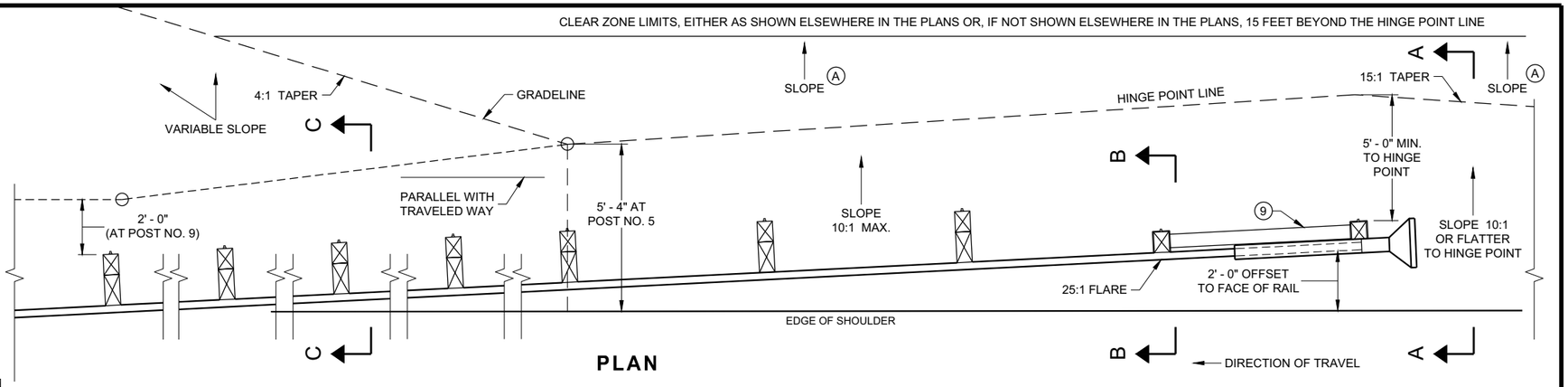
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

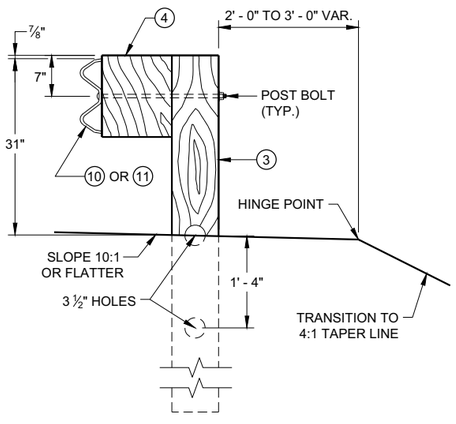
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

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.

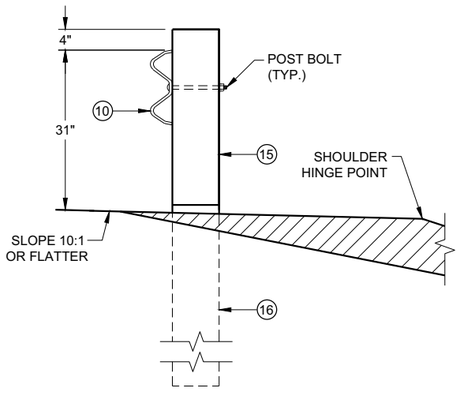


DETAIL "A" (E)

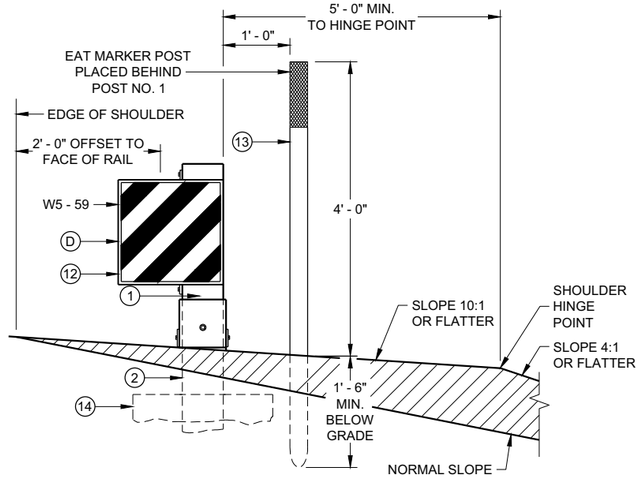




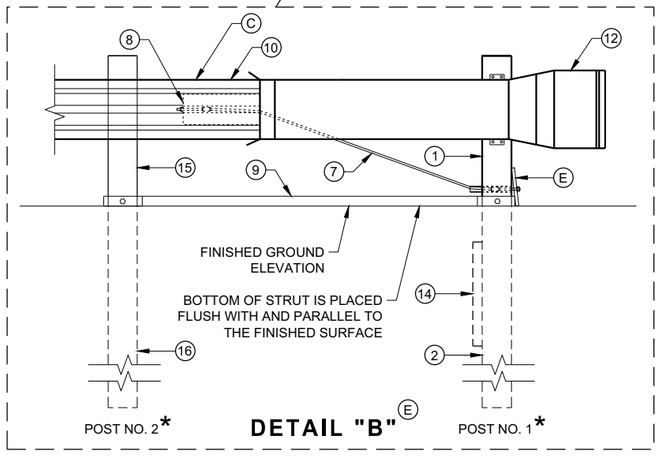
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



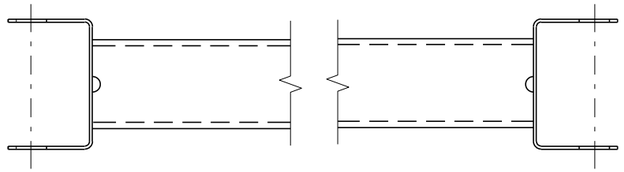
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

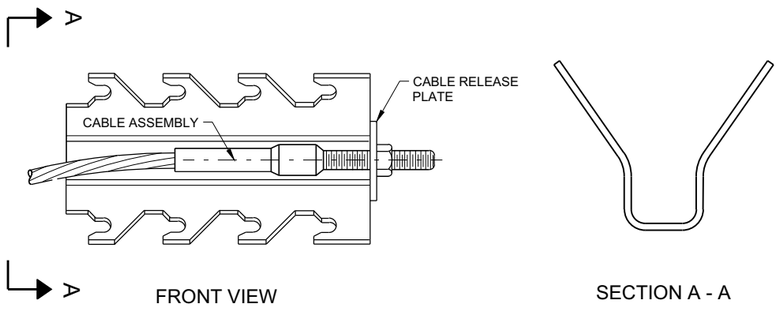
SDD 14B44 - 04a



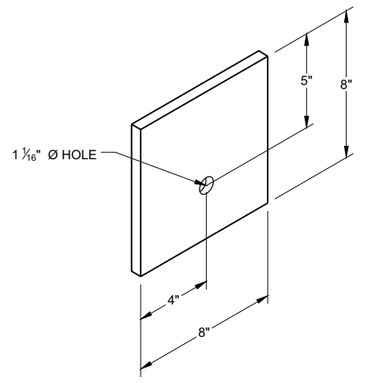
GENERIC GROUND STRUT ⑨ Ⓔ

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

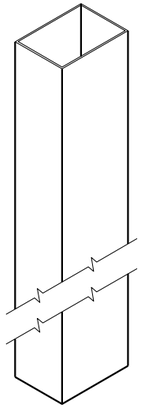
6

SDD 14B44 - 04b

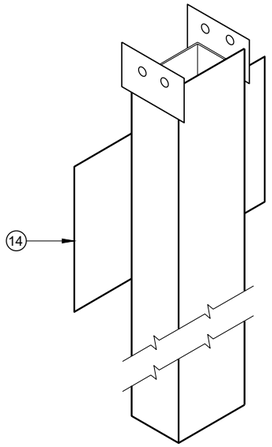
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

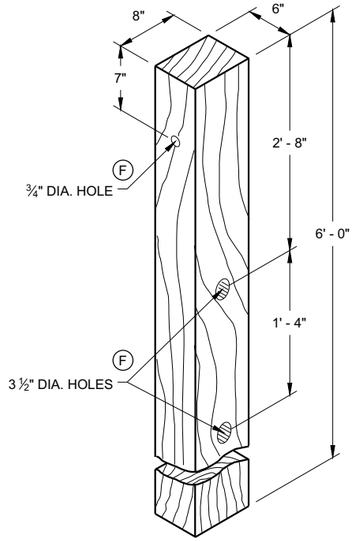
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



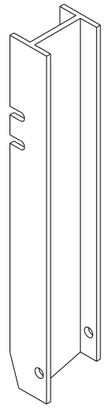
UPPER POST NO. 1 (1) (E)



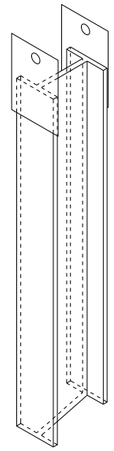
LOWER POST NO. 1 (2) (E)



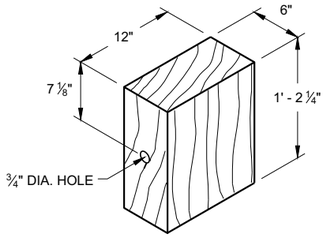
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



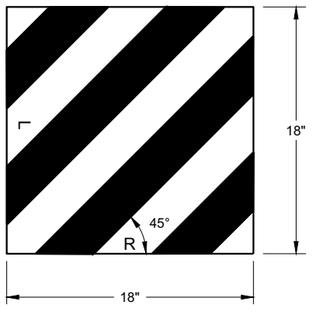
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

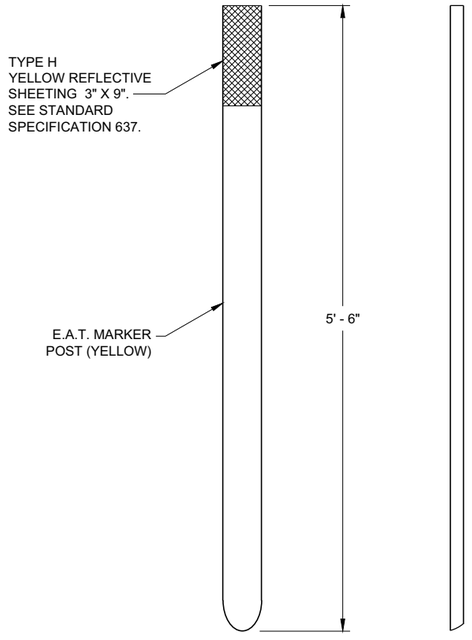


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



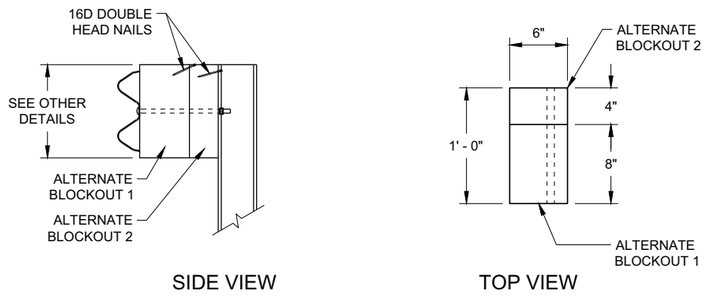
W5 - 59

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)

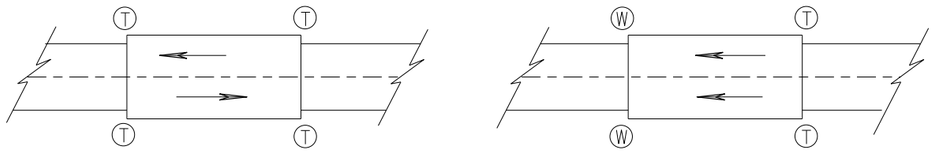
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

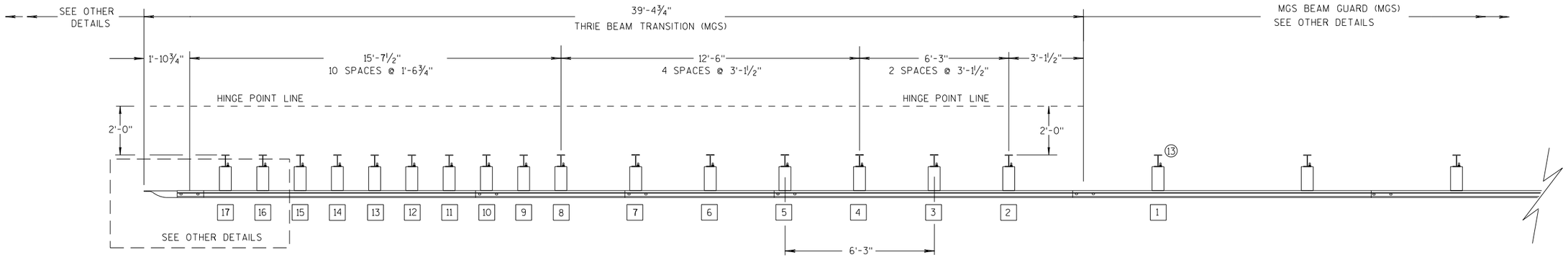
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

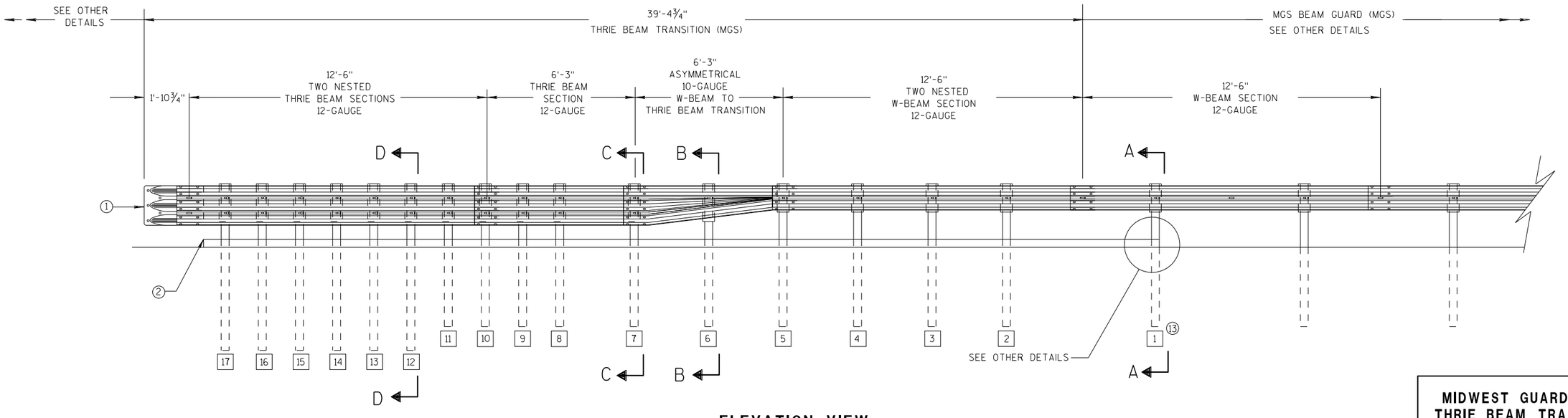
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(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

6
S.D.D. 14 B 45-5a

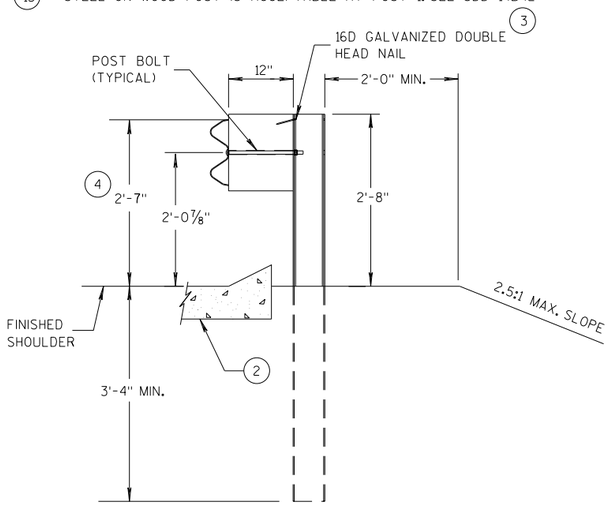
GENERAL NOTES

(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.

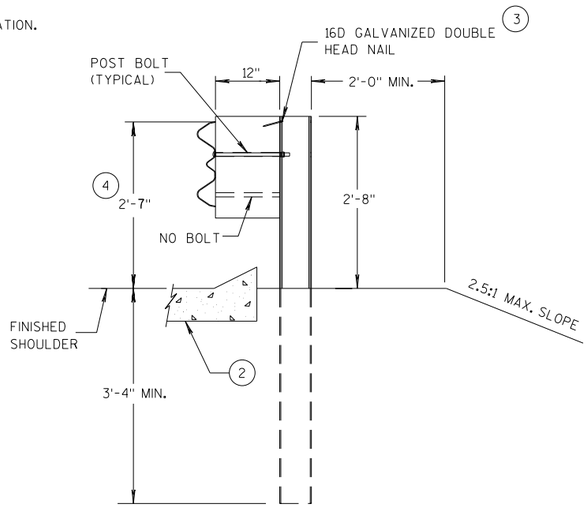
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



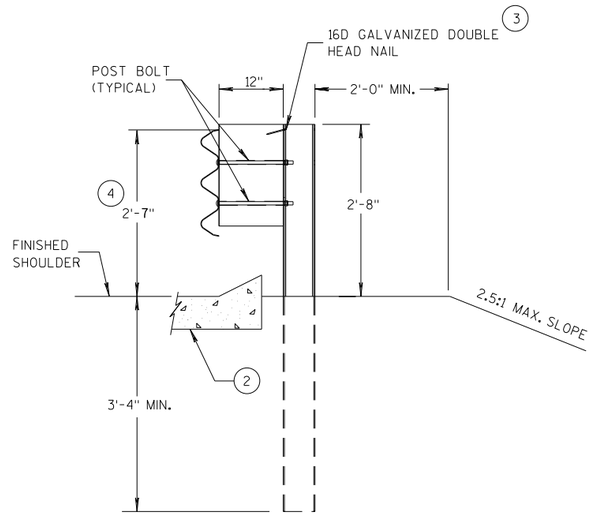
SECTION A-A (13)

POSTS 1-5



SECTION B-B

POST 6

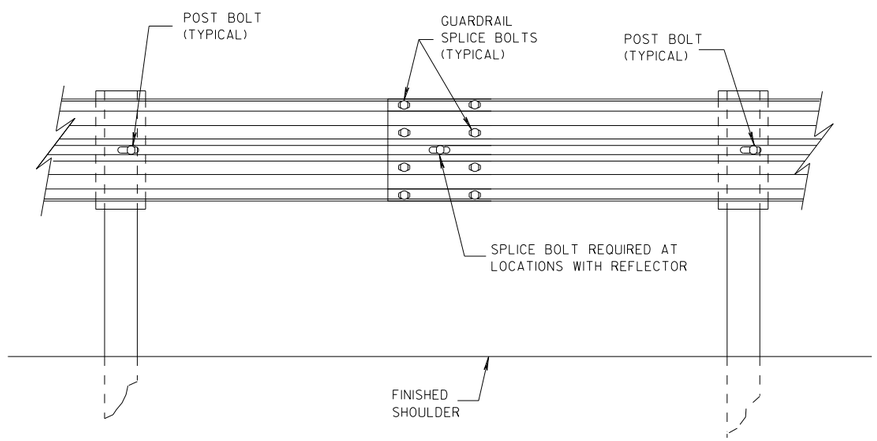


SECTION C-C

POSTS 7-11

SECTION D-D

POSTS 12-17



SPLICE DETAIL

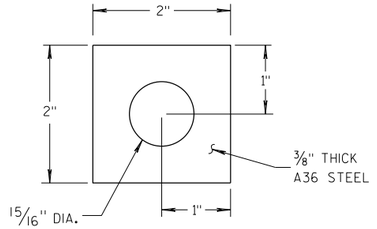
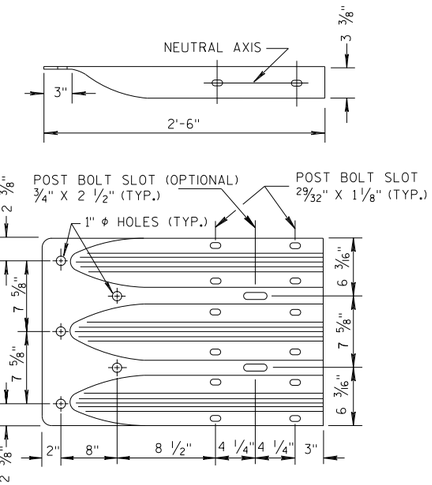
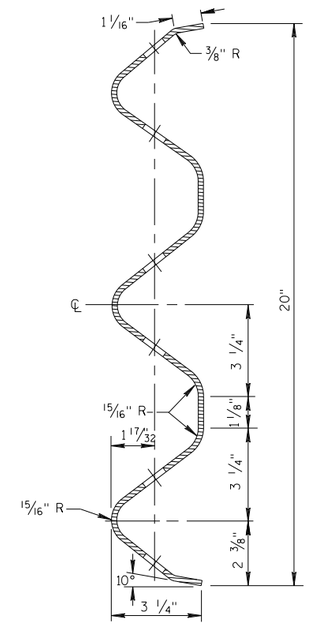


PLATE WASHER DETAIL



THRIE BEAM TERMINAL CONNECTOR



SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

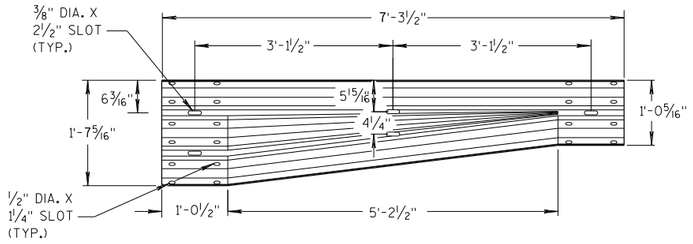
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 28

6

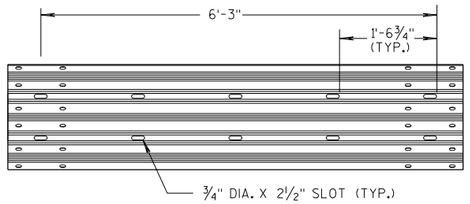
S.D.D. 14 B 45-5b

6

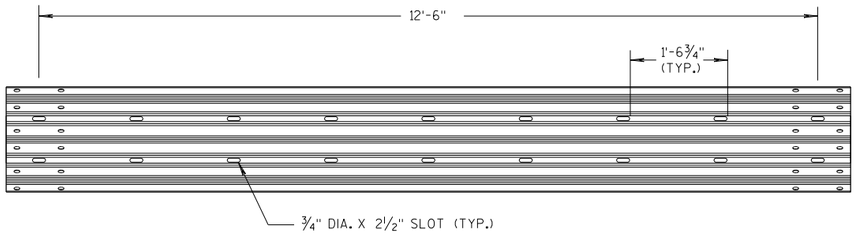
S.D.D. 14 B 45-5b



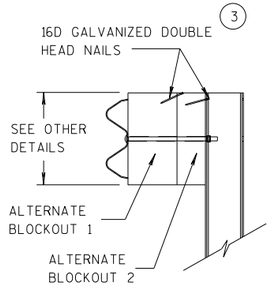
W-BEAM TO THRIE BEAM TRANSITION SECTION



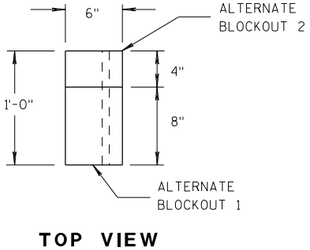
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

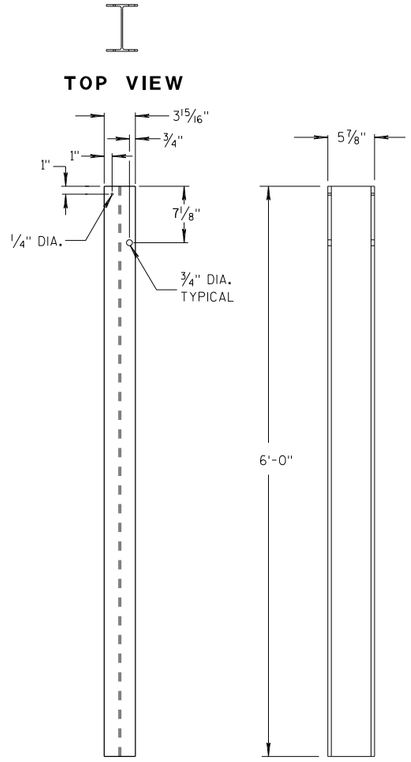


SIDE VIEW



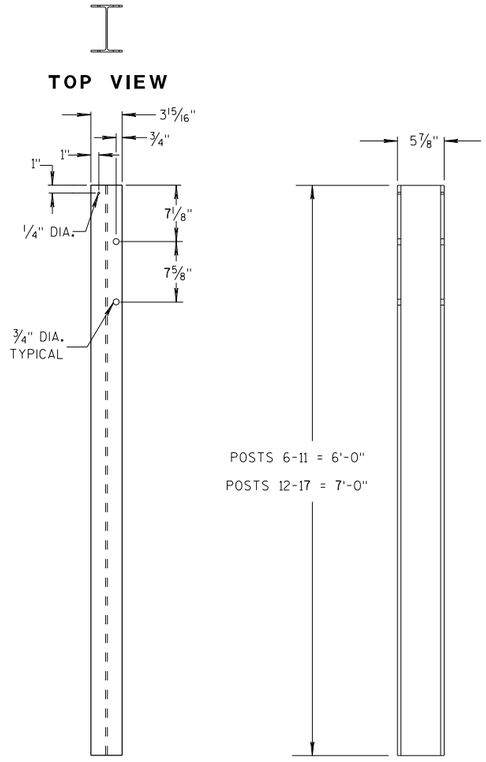
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



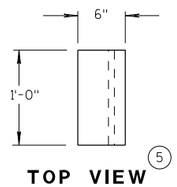
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

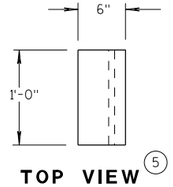


FRONT VIEW SIDE VIEW

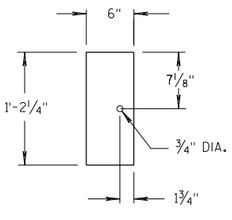
STEEL POSTS 6-17



TOP VIEW (5)

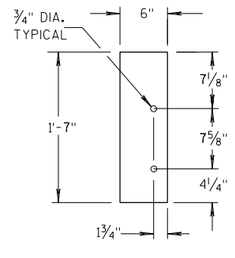


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

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

(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

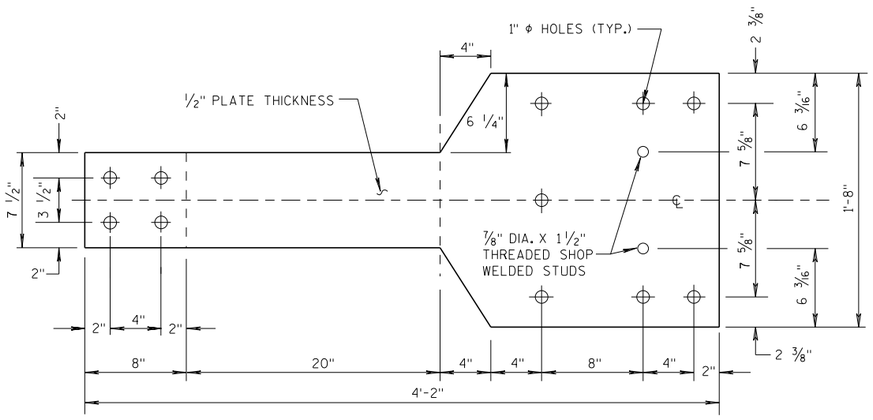
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

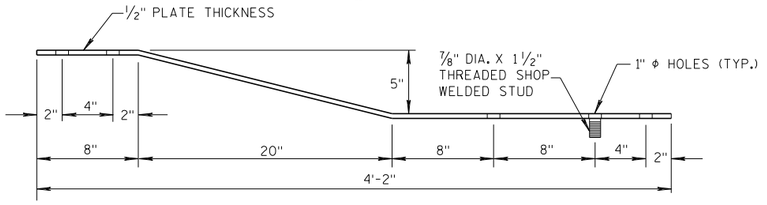
6
S.D.D. 14 B 45-5c

GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

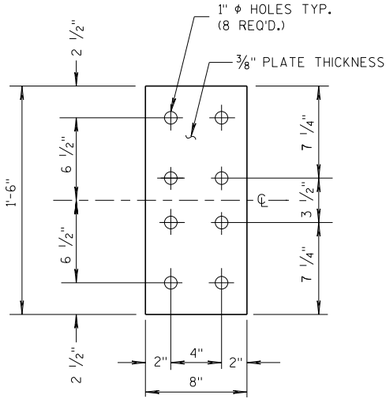


FRONT VIEW



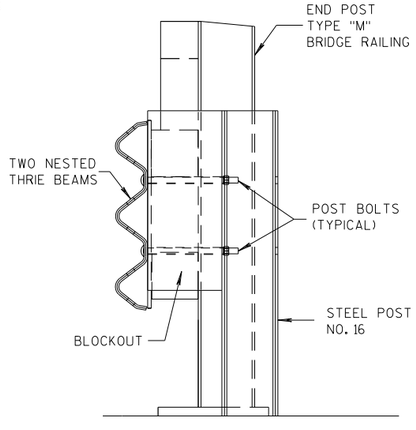
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

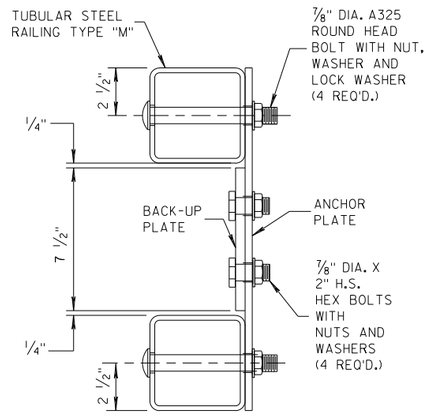


FRONT VIEW

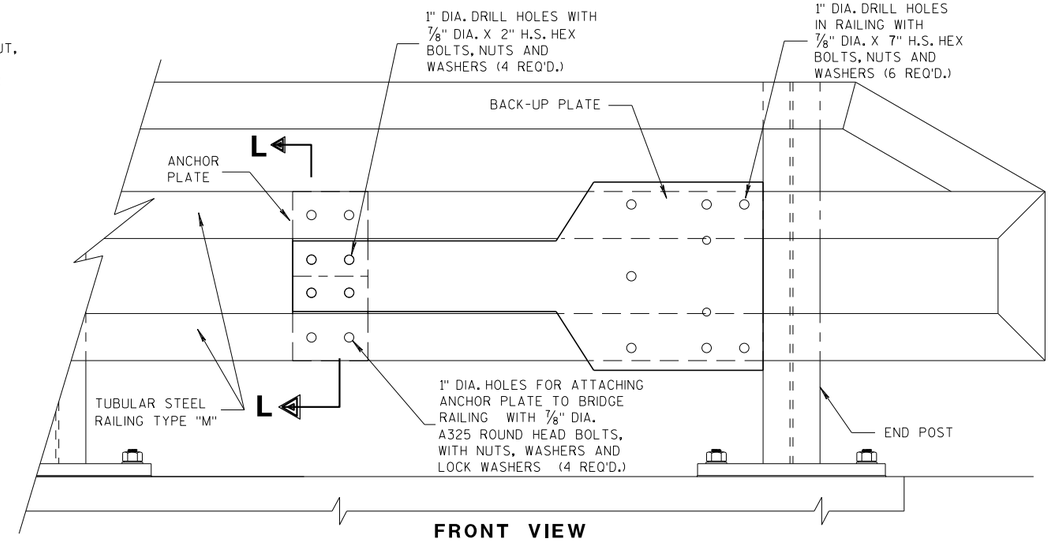
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

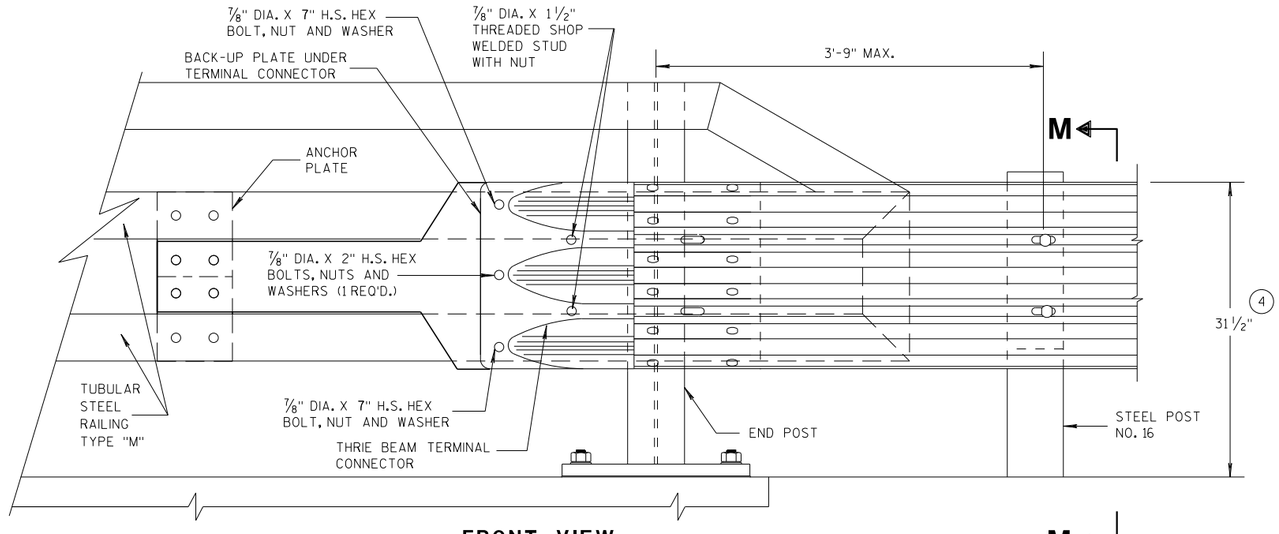


SECTION L-L

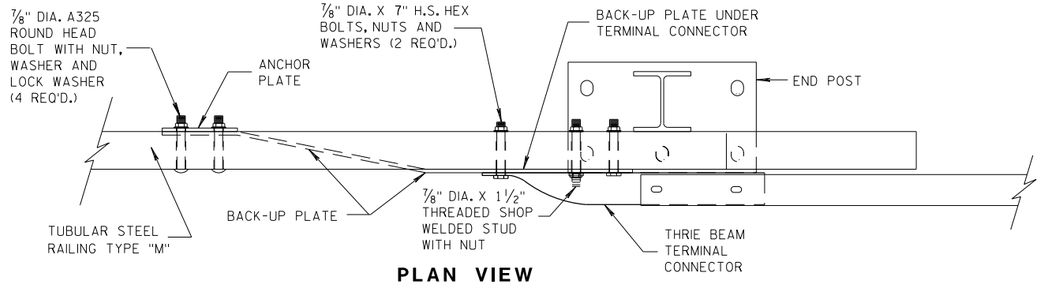


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

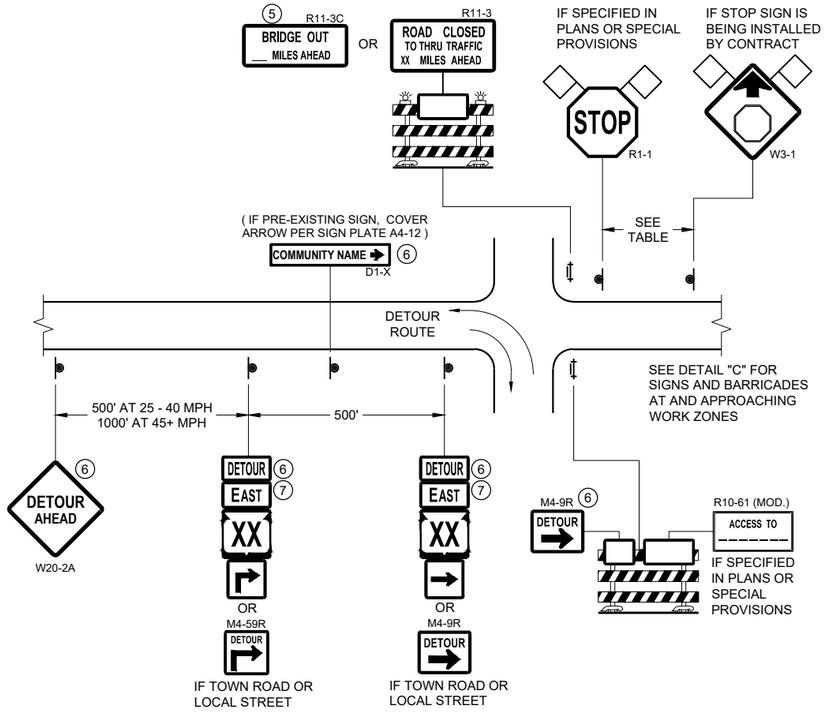
APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

6

S.D.D. 14 B 45-5h

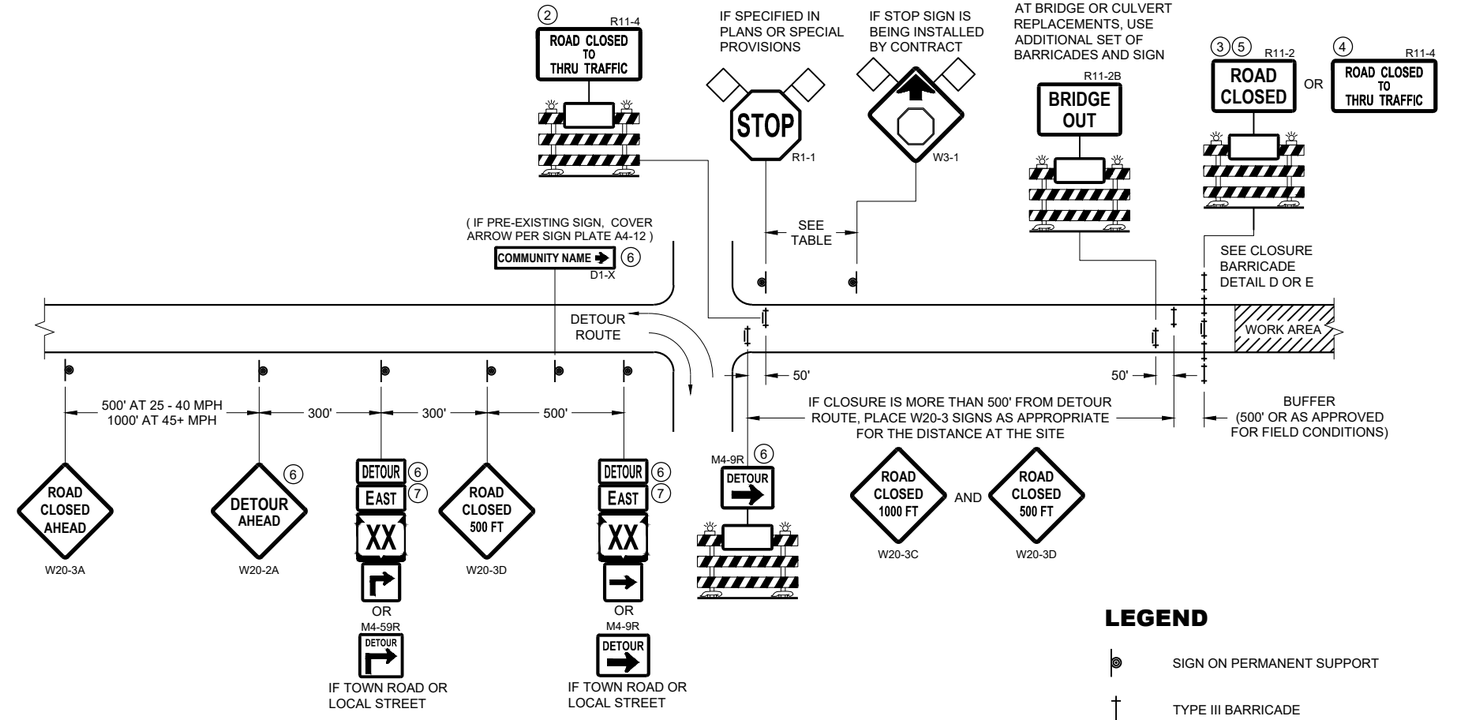
6

S.D.D. 14 B 45-5h



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)

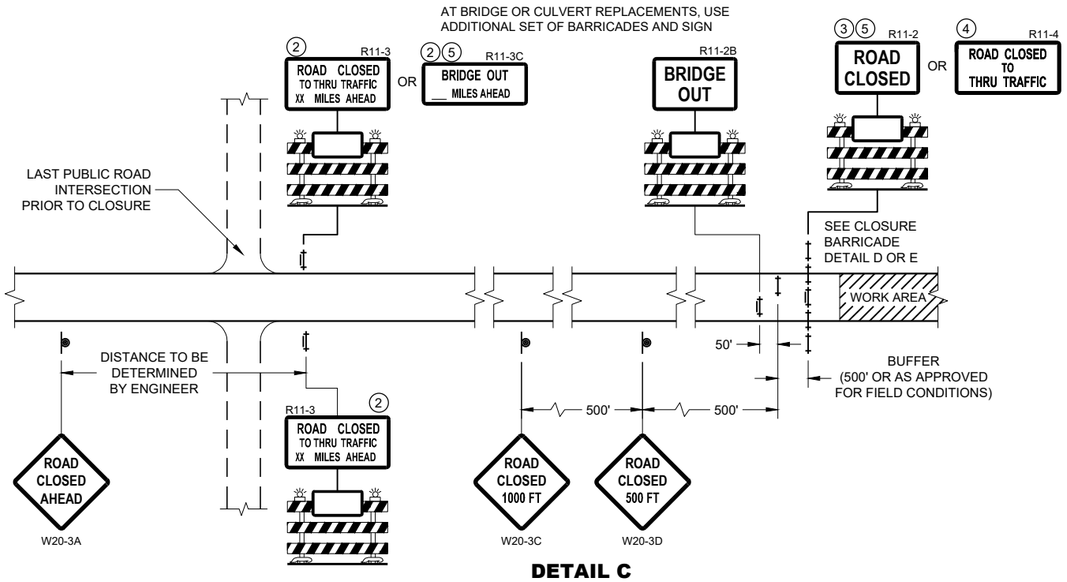
SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

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



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

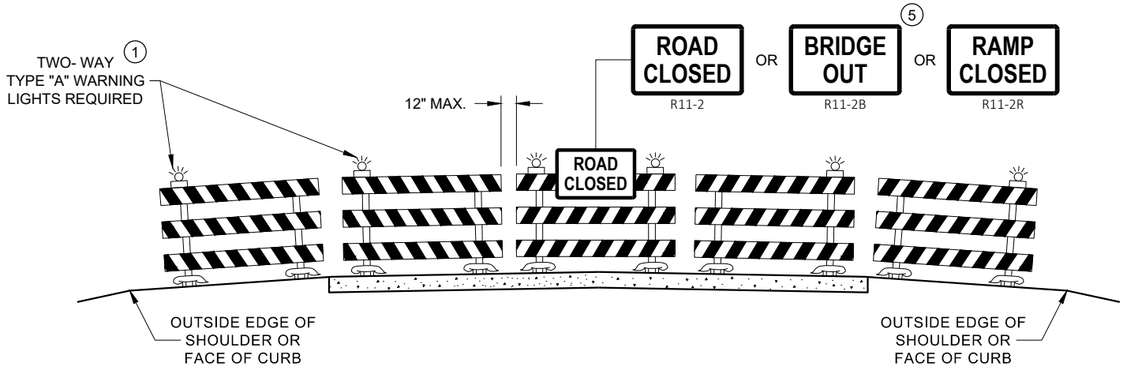
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

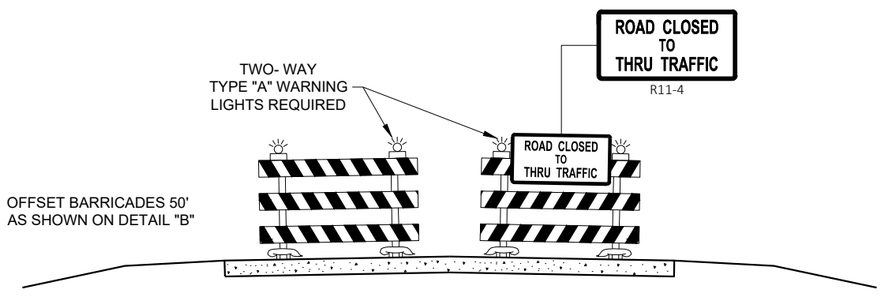
FHWA

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SDD 15C02 - 09a



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.

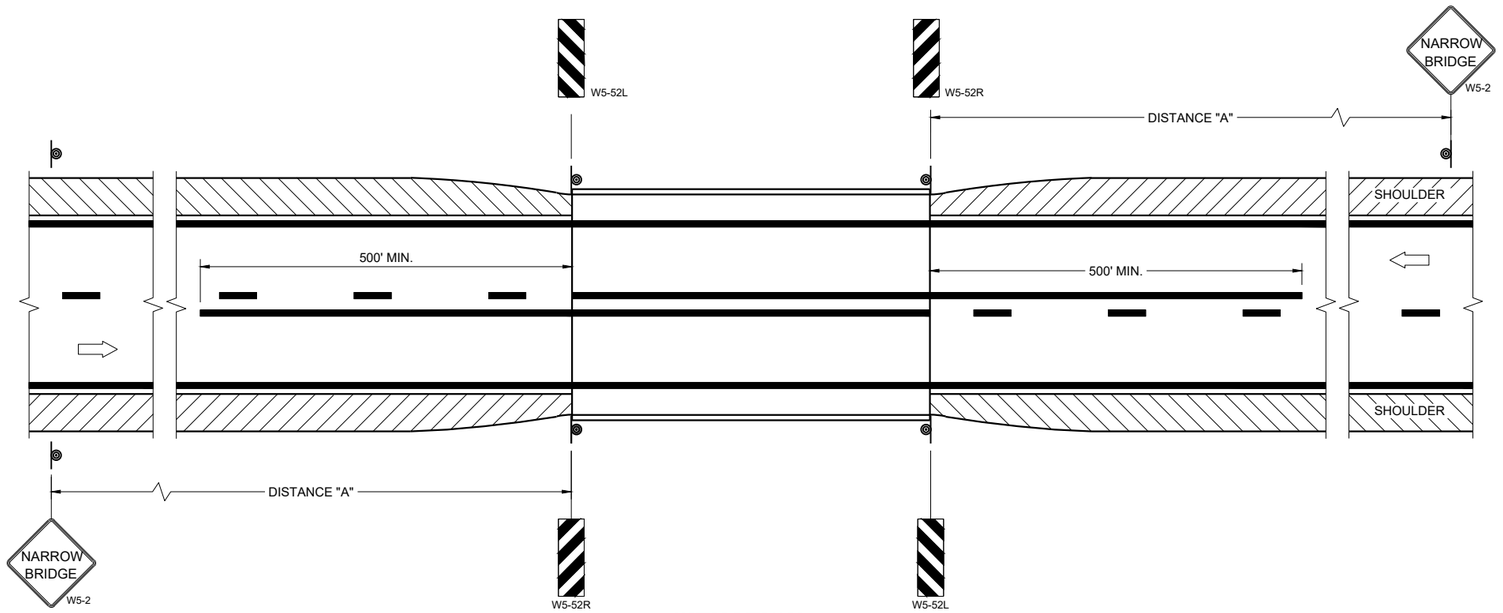
BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

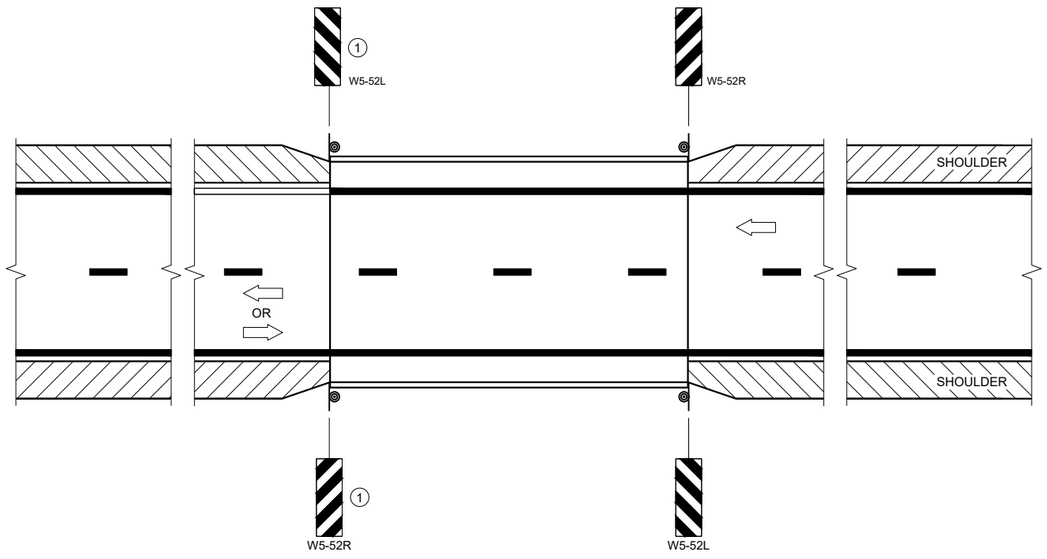
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SDD 15C02 - 09b



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.



SITUATION 2

WARRANTING CRITERIA:
1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

(1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer
FHWA

6
SDD 15C06-12

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

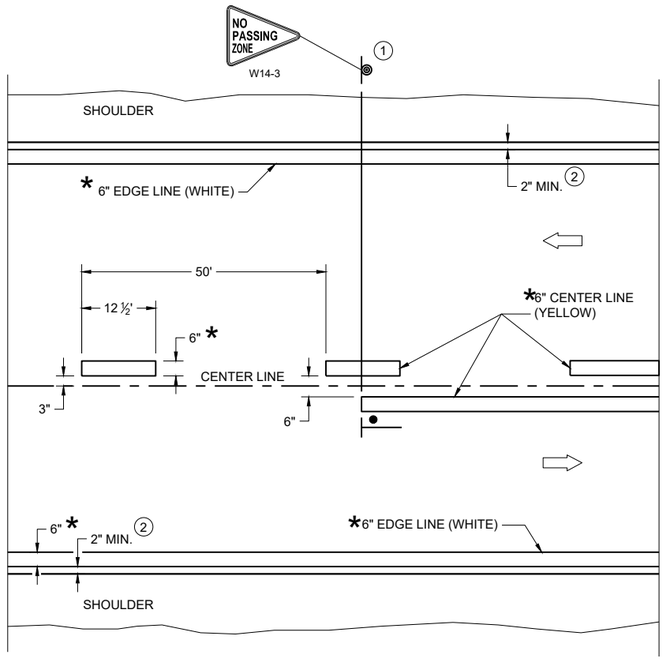
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

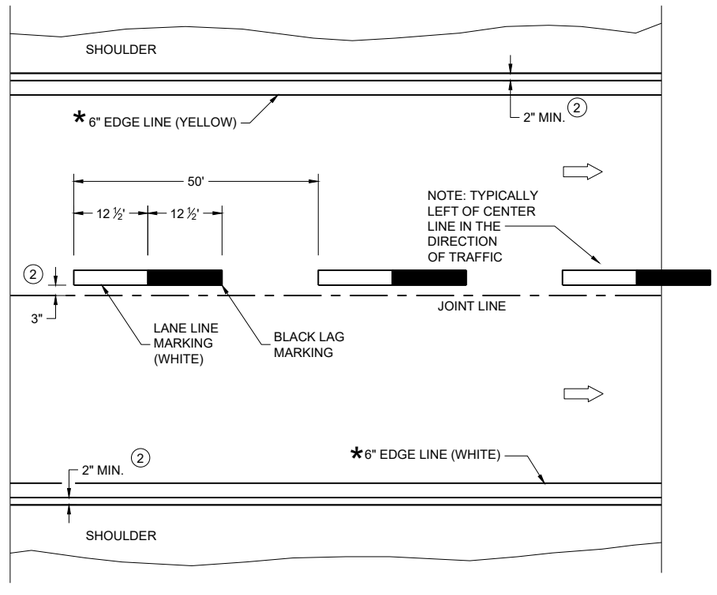
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

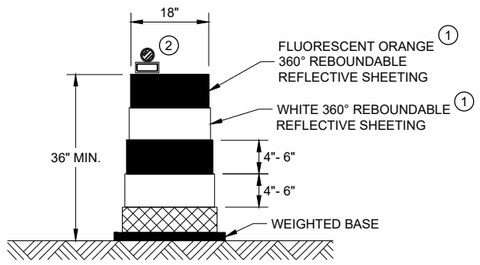
/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

SDD 15C08-23a

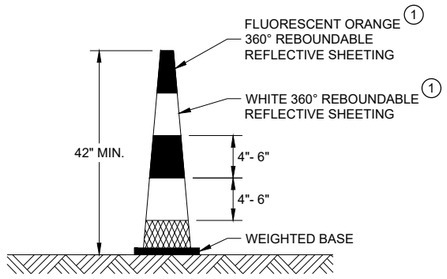
GENERAL NOTES

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

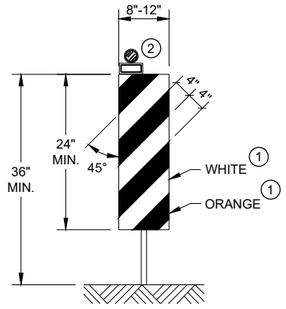
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

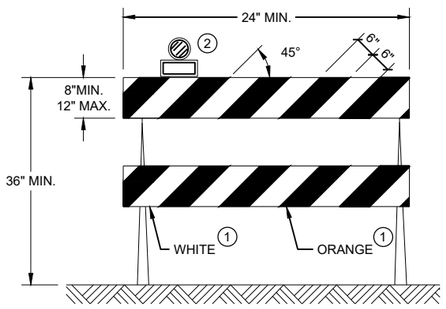
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



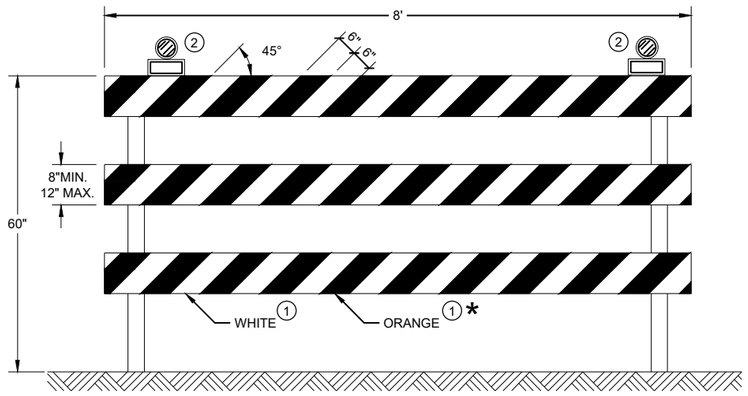
VERTICAL PANEL

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

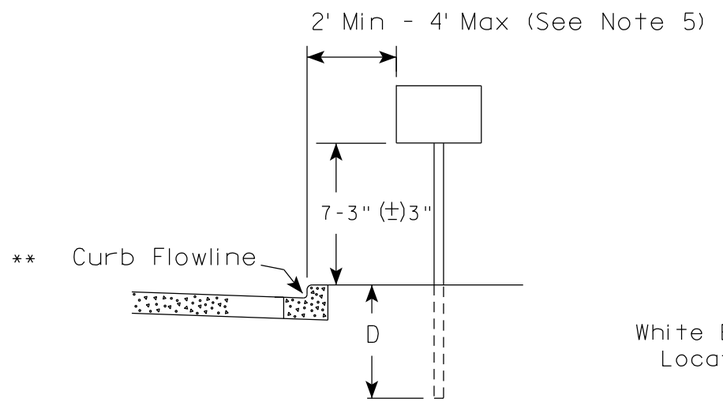
6

SDD 15C11 - 10b

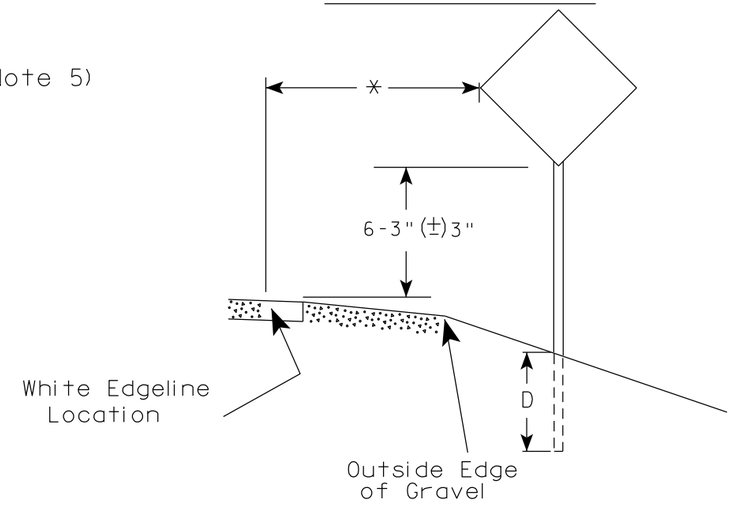
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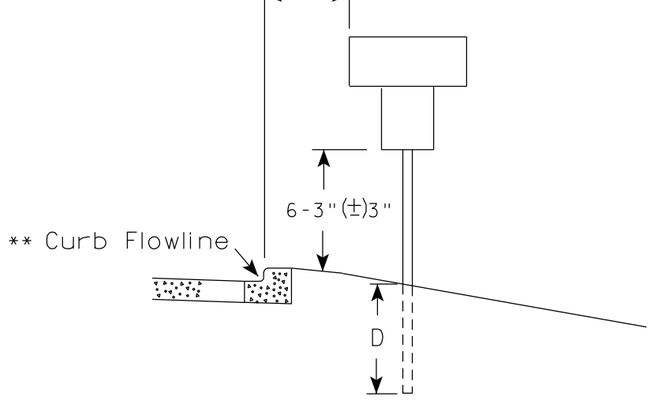
SDD 15C11 - 10b

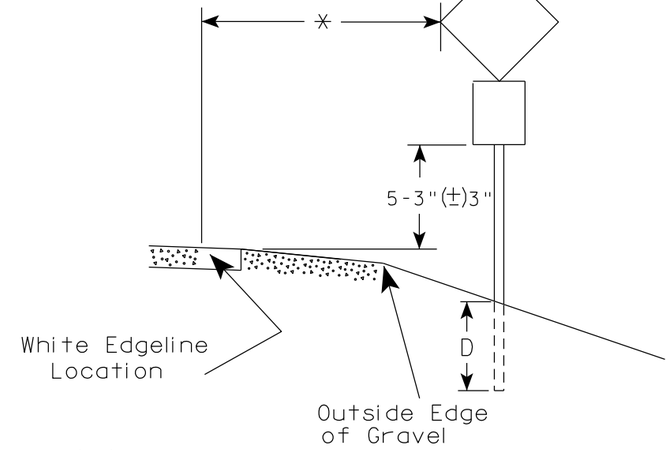
URBAN AREA



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.

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.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

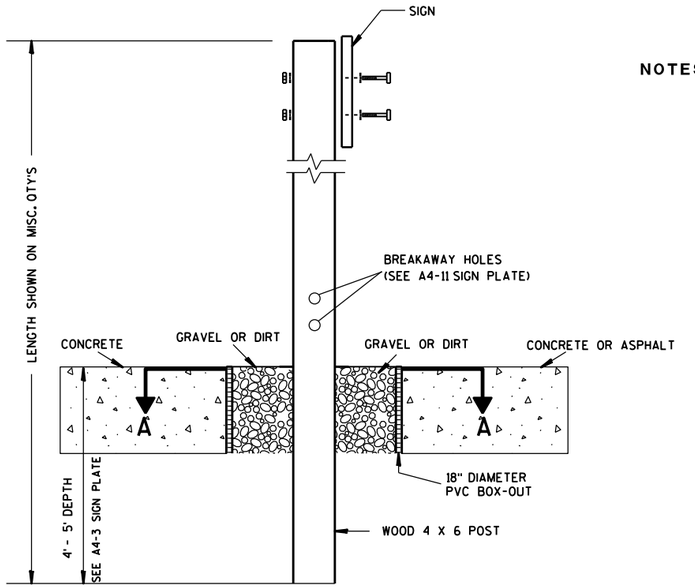
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

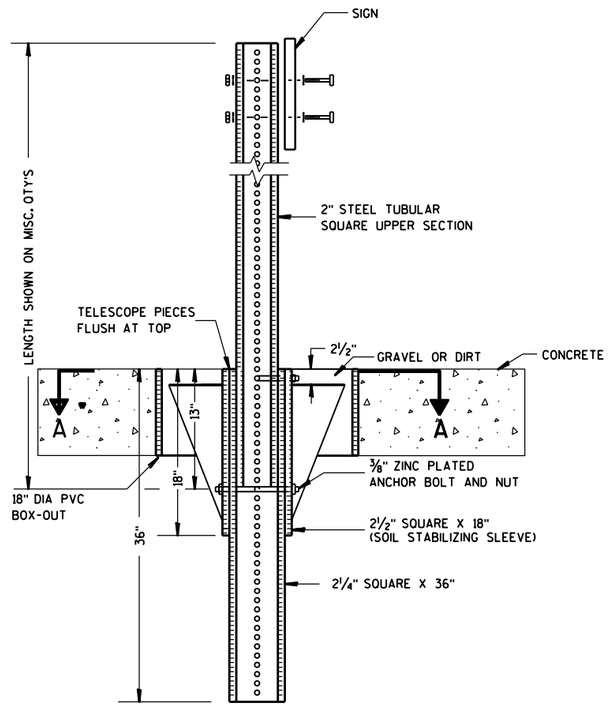
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 36	E



ELEVATION VIEW

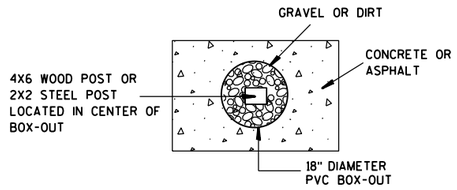
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

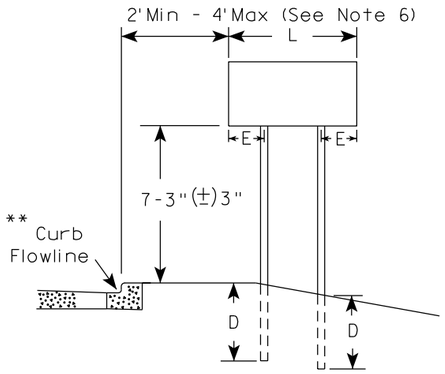
APPROVED Matthew R Rauch
for State Traffic Engineer

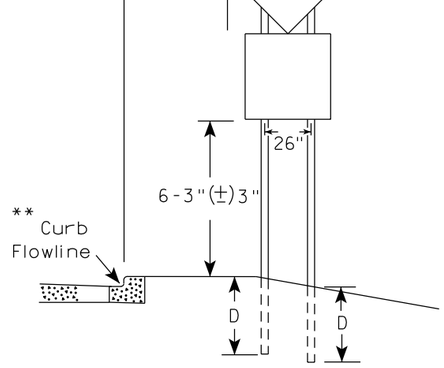
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

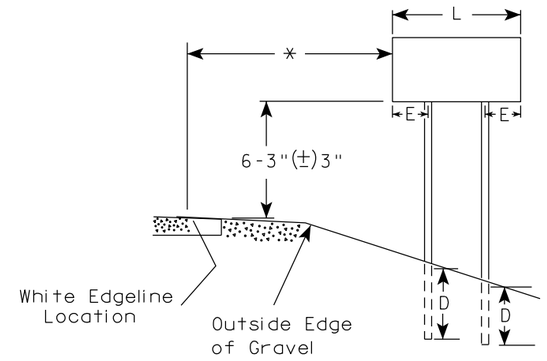
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

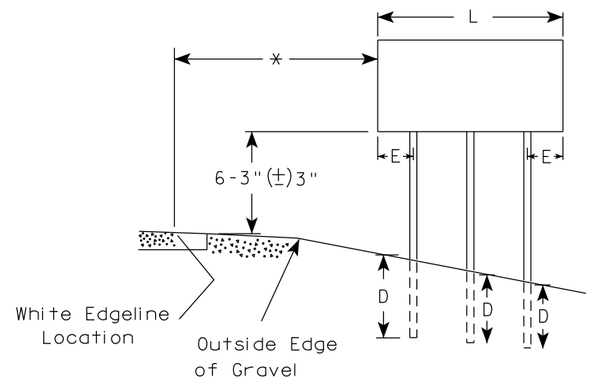
URBAN AREA

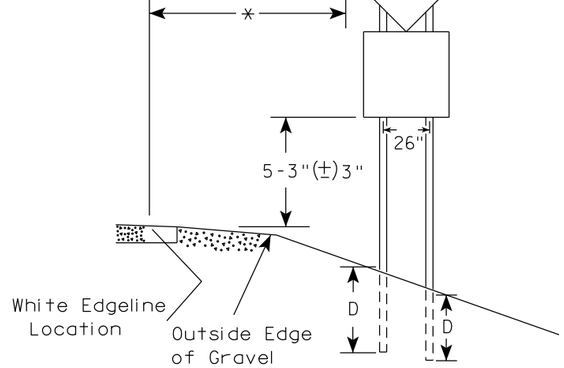




RURAL AREA (See Note 3)







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'

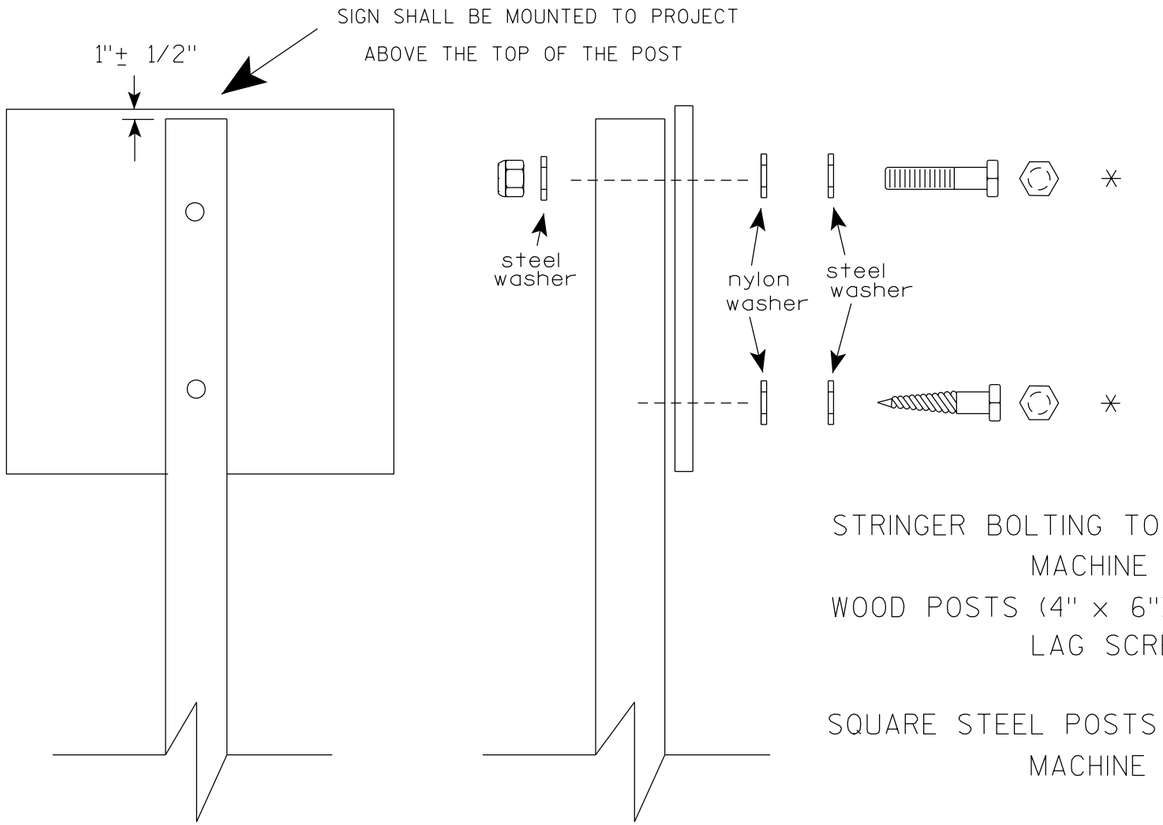
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 38	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

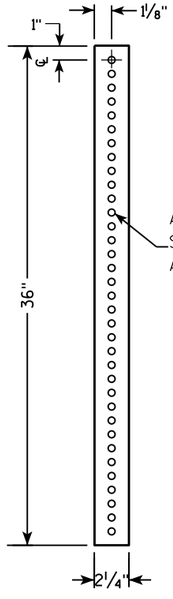
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

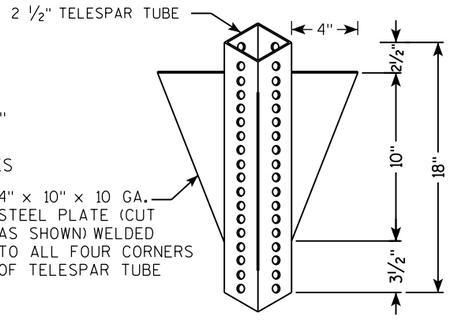
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

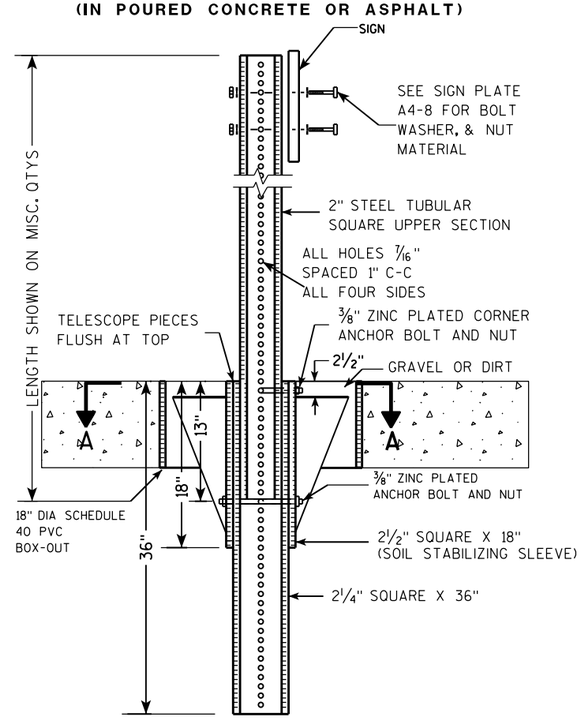
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



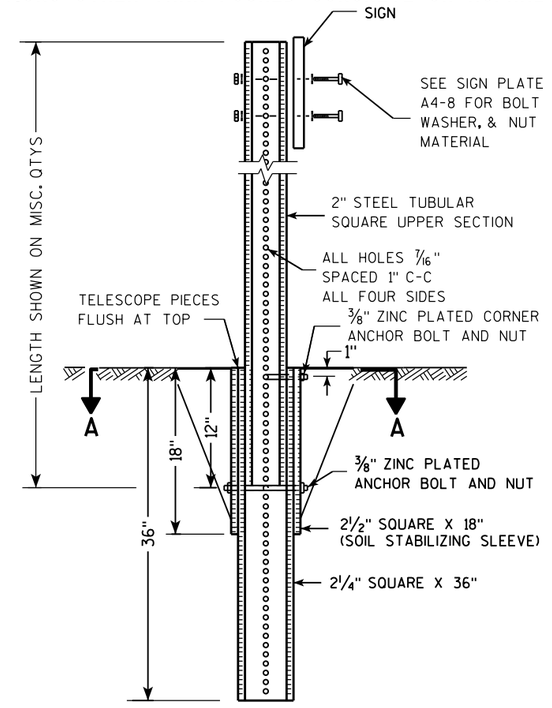
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

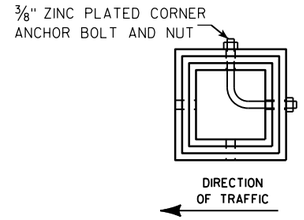


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

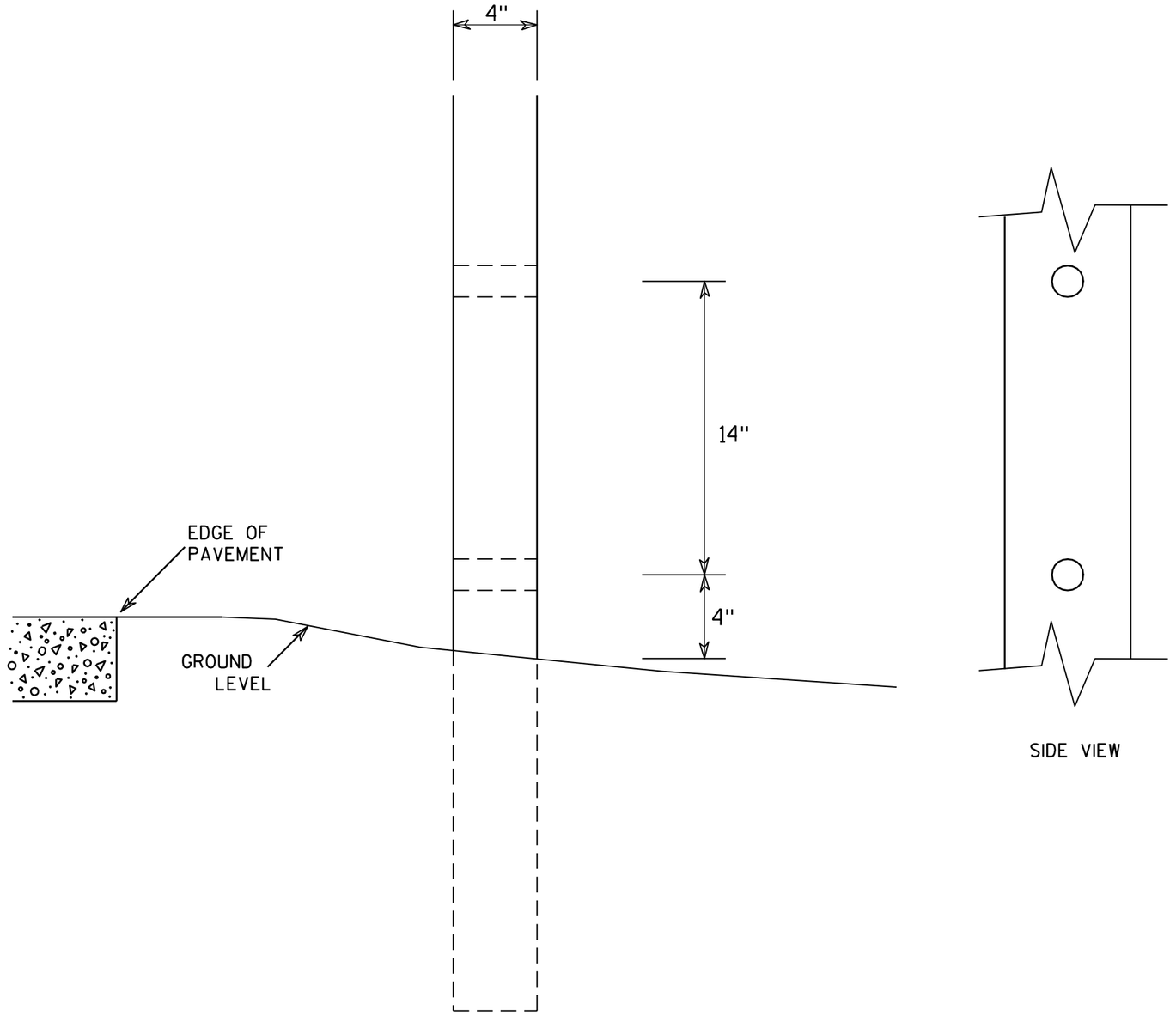
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 40 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

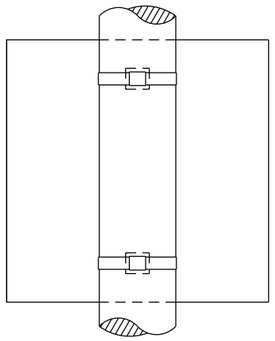
APPROVED Chester J Spang
for State Traffic Engineer

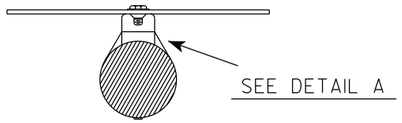
DATE 3/27/97 PLATE NO. A4-11.2

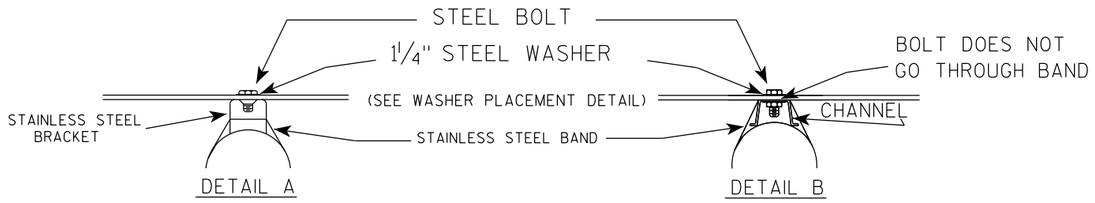
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 41	E

BANDING

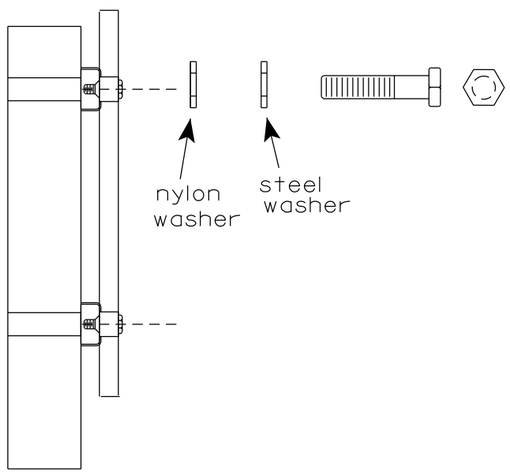
SINGLE SIGN







WASHER PLACEMENT

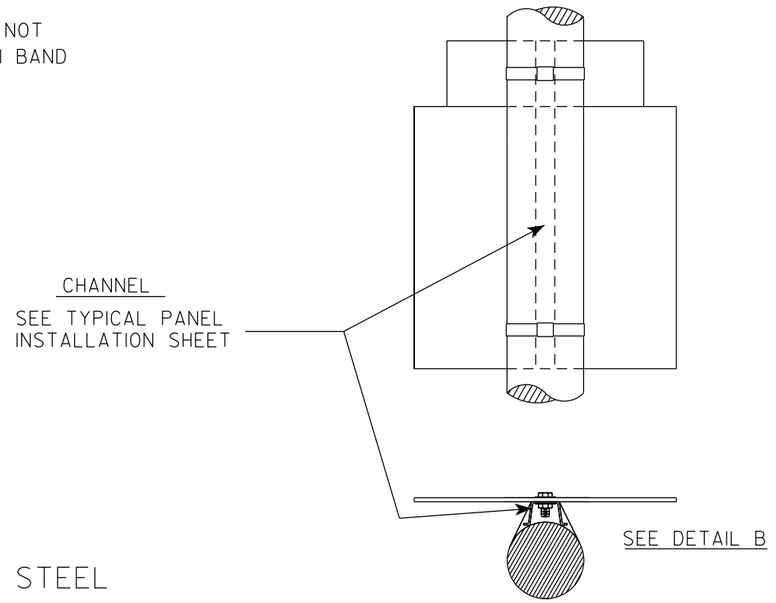


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

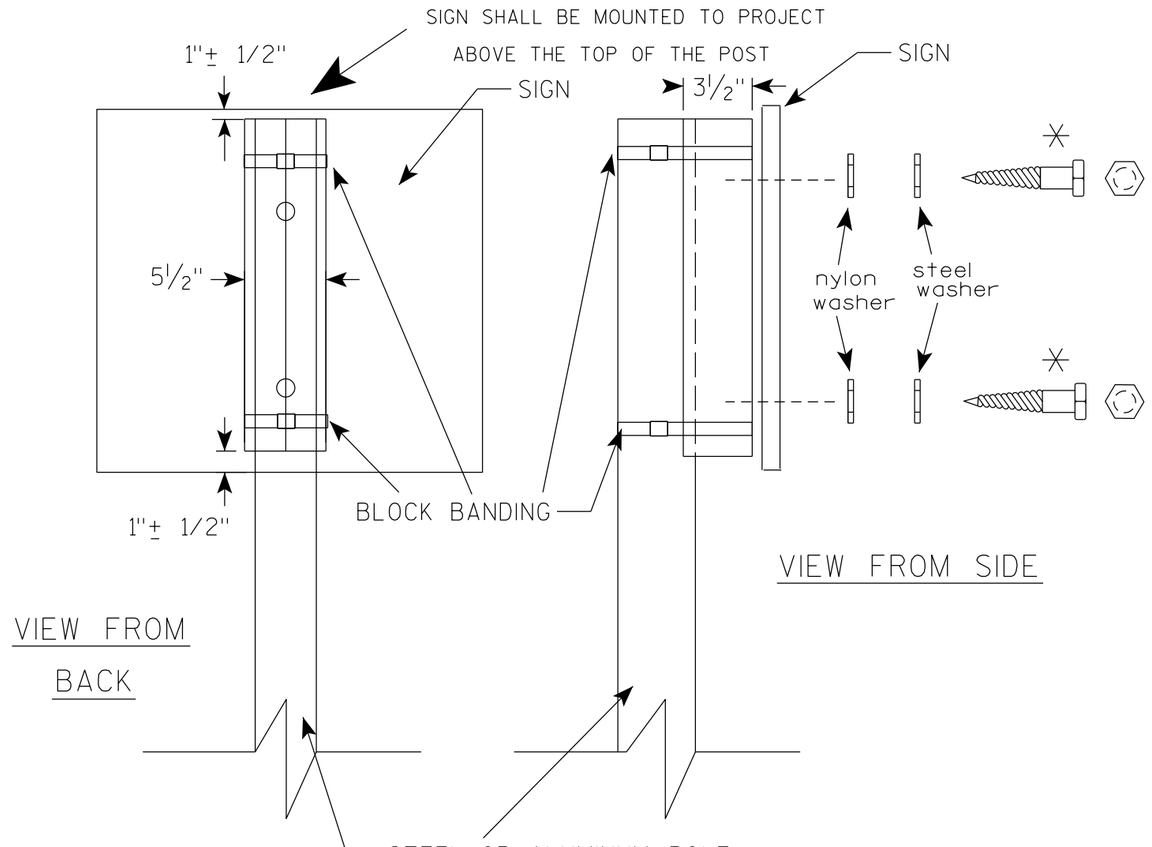
DATE 6/10/19 PLATE NO. A5-9.4

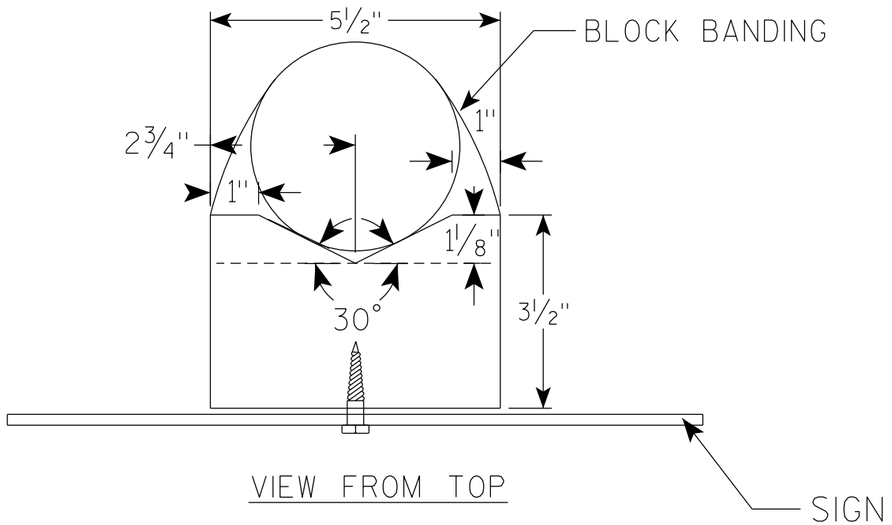
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 42	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

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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)

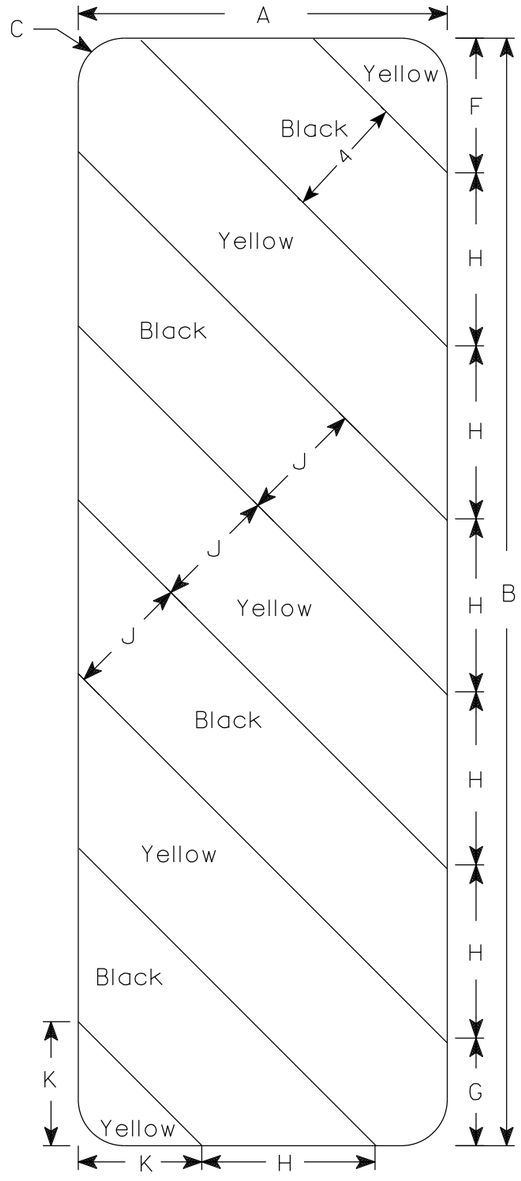
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

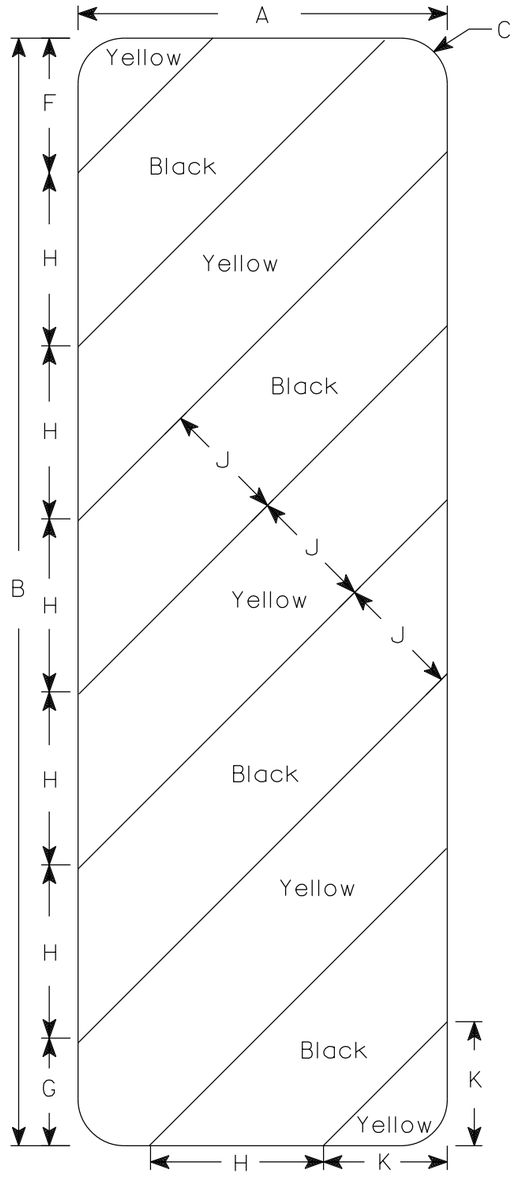
DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 43 E



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36	1 1/2			4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36	1 1/2			4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54	1 1/2			6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

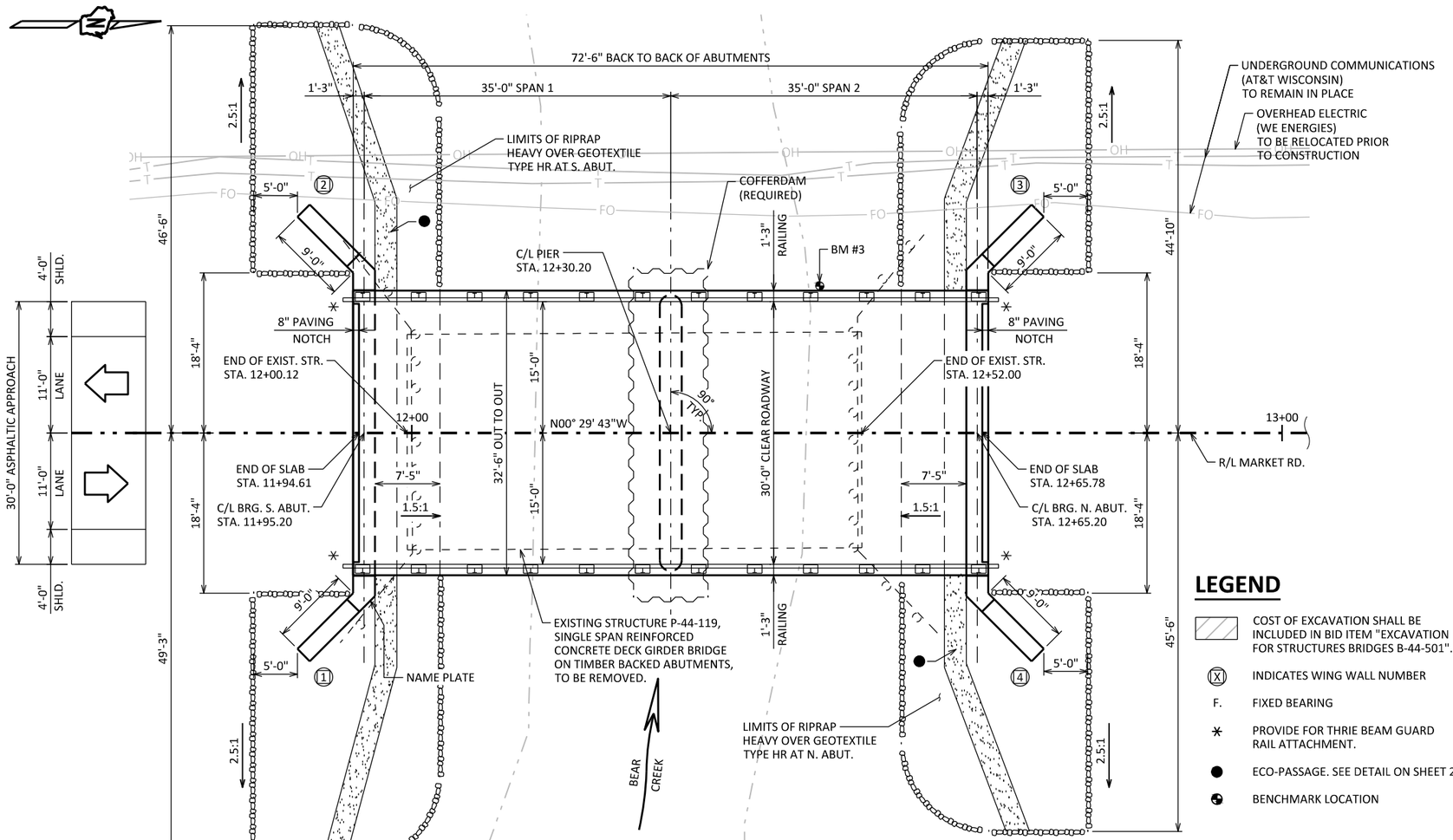
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/4/2024 PLATE NO. W5-52.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 44 E

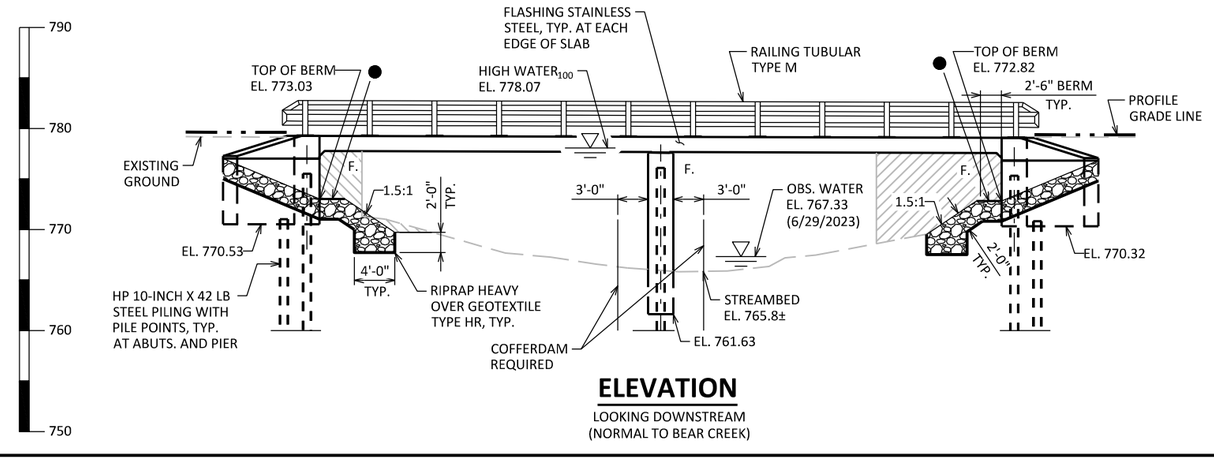
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PLAN

TWO-SPAN REINFORCED CONCRETE FLAT SLAB



ELEVATION

LOOKING DOWNSTREAM
(NORMAL TO BEAR CREEK)

LEGEND

- COST OF EXCAVATION SHALL BE INCLUDED IN BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-44-501".
- (X) INDICATES WING WALL NUMBER
- F. FIXED BEARING
- ✳ PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT.
- ● ECO-PASSAGE. SEE DETAIL ON SHEET 2.
- BENCHMARK LOCATION

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING: RF = 1.19
OPERATING RATING: RF = 1.55
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 (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

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10-INCH X 42 LB STEEL PILING WITH PILE POINTS DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 120 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.

ESTIMATED 120-'0" LONG AT SOUTH ABUTMENT.
ESTIMATED 135-'0" LONG AT NORTH ABUTMENT.

PIER TO BE SUPPORTED ON HP 10-INCH X 42 LB STEEL PILING WITH PILE POINTS DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 120 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.

ESTIMATED 110-'0" LONG.

**THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE PILE CAPACITY.

HYDRAULIC DATA

100-YEAR FREQUENCY:

Q_{100}= 3,200 C.F.S.
Q_{BRIDGE} = 2,924 C.F.S.
$Q_{ROADWAY}$ = 276 C.F.S.
V_{100}= 4.84 F.P.S.
HW_{100}= EL. 778.07
WATERWAY AREA = 604 SQ. FT.
DRAINAGE AREA = 44.2 SQ. MI.
SCOUR CRITICAL CODE = 5

ROADWAY OVERTOPPING

FREQUENCY = 91 YEARS
Q = 3,115 C.F.S.
HW. = EL. 778.02

2-YEAR FREQUENCY:

Q_2= 900 C.F.S.
V_2= 2.77 F.P.S.
HW_2= EL. 773.51

TRAFFIC DATA

FEATURE ON: MARKET RD.

ADT = 1,170 (2025)
ADT = 1,310 (2045)
R.D.S. = 45 MPH

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. CROSS SECTION, QUANTITIES, AND NOTES
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT DETAILS
6. NORTH ABUTMENT
7. NORTH ABUTMENT DETAILS
8. ABUTMENT DETAILS
9. PIER
10. SUPERSTRUCTURE
11. SUPERSTRUCTURE DETAILS 1
12. SUPERSTRUCTURE DETAILS 2
13. TUBULAR STEEL RAILING TYPE 'M'

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
BM 1	8+56.21, 32.88' LT.	R/R SPIKE IN POWER POLE	776.64
BM 2	11+44.12, 31.11' LT.	R/R SPIKE IN POWER POLE	774.94
BM 3	12+47.21, 16.77' LT.	R/R SPIKE IN TIMBER PILING	774.73

WISCONSIN CHRISTOPHER J. MARCUM 44676 EAU CLAIRE WISCONSIN PROFESSIONAL ENGINEER

01/27/2025

STRUCTURE DESIGN CONTACTS:
CONSULTANT: CHRISTOPHER MARCUM, PE 715-861-4823
BUREAU OF STRUCTURES: AARON BONK 608-261-0261

STATE PROJECT NUMBER
6508-00-71

NO.	DATE	REVISION	BY

jt ENGINEERING
REAL, TRUSTED, PROVEN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORATION

ACCEPTED SDR 01/29/25
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-44-501

MARKET ROAD OVER BEAR CREEK

COUNTY	TOWN
OUTAGAMIE	ELLINGTON

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATION

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
VJD	CJM	VJD/MPG	CJM

GENERAL PLAN AND ELEVATION

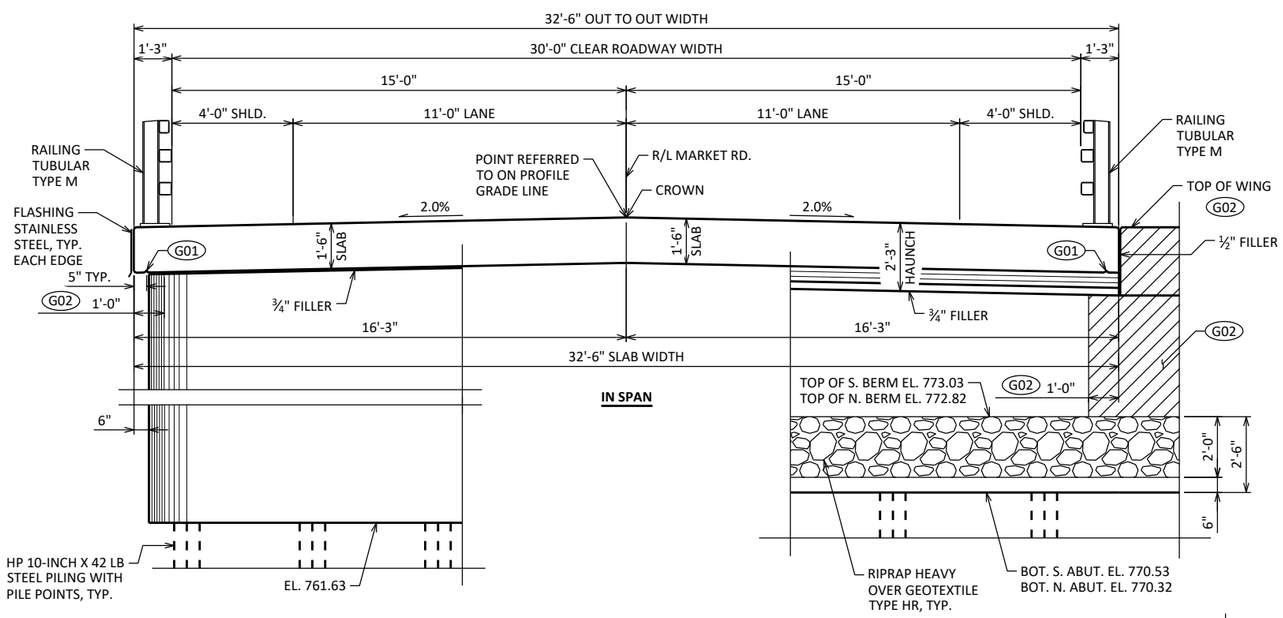
SHEET 1 OF 13
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SCALE = N.T.S.

I.D. 6508-00-01 DATE: 12/2/2024

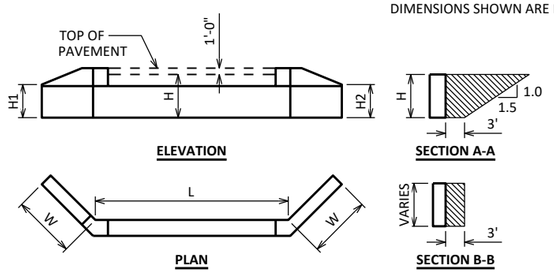
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TYPICAL SECTION THRU BRIDGE

LOOKING NORTH
DIMENSIONS SHOWN ARE NORMAL TO R/L MARKET RD.



ABUTMENT BACKFILL DIAGRAM

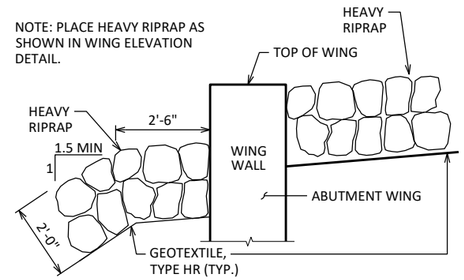
L = ABUTMENT BODY LENGTH AT BACKFACE (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
H1 = WING 1 HEIGHT AT TIP (FT)
H2 = WING 2 HEIGHT AT TIP (FT)
W = WING LENGTH (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)
V_{CY} = V_{CF}(EF)/27
V_{TON} = V_{CY}(2.0)

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	PIER	NORTH ABUT.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-44-119	EACH	---	---	---	---	1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-44-501	EACH	---	---	---	---	1
206.5001	COFFERDAMS B-44-501	EACH	---	---	---	---	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	---	207	---	207	414
502.0100	CONCRETE MASONRY BRIDGES	CY	135	35	47	35	252
502.3200	PROTECTIVE SURFACE TREATMENT	SY	307	18	---	18	343
502.9000.S	UNDERWATER SUBSTRUCTURE INSPECTION B-44-501	EACH	---	---	---	---	1
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	---	2,510	2,210	2,510	7,230
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	32,960	1,540	70	1,540	36,110
513.4061	RAILING TUBULAR TYPE M	LF	150	---	---	---	150
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	---	7	---	7	14
550.0500	PILE POINTS	EACH	---	8	11	8	27
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	---	960	1,210	1,080	3,250
606.0300	RIPRAP HEAVY	CY	---	125	---	115	240
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	---	90	---	90	180
645.0111	GEOTEXTILE DF SCHEDULE A	SY	---	50	---	50	100
645.0120	GEOTEXTILE TYPE HR	SY	---	260	---	245	505
SPV.0090.01	FLASHING STAINLESS STEEL	LF	135	---	---	---	135
SPV.0195.01	SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR	TON	---	8	---	8	16
	NON-BID ITEMS						
	PREFORMED JOINT FILLER	SIZE					½" & ¾"
	NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER	SIZE					1"
	NAME PLATE	EACH					1

ALL B-44-501 BID ITEMS ARE CATEGORY 0020

NOTE: PLACE HEAVY RIPRAP AS SHOWN IN WING ELEVATION DETAIL.

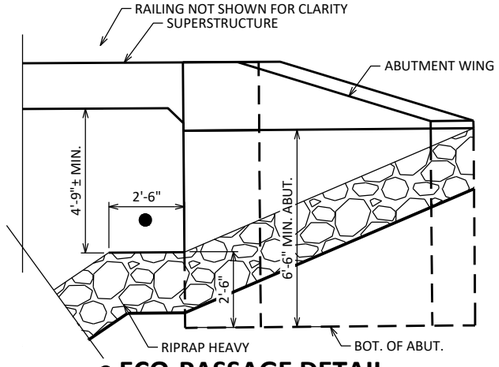


TYPICAL FILL SECTION AT WING

LEGEND

G01 ¾" V-GROOVE REQUIRED. EXTEND TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGM. TYP. AT EACH EDGE OF THE SLAB.

G02 PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK, THE DECK EDGES, THE EXTERIOR 1'-0" OF THE UNDERSIDE OF THE DECK AND DIAPHRAGMS, THE EXPOSED TOP AND FRONT FACES OF THE ABUTMENT AND WINGS TO 1'-0" PAST THE EDGE OF DECK.

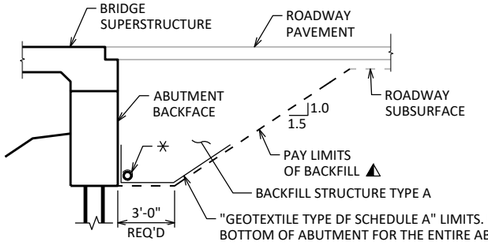


● ECO-PASSAGE DETAIL

BOTH ABUTMENTS SIMILAR

SMALL RIPRAP HEAVY MATERIAL SHALL BE PLACED IN VOIDS PRIOR TO USING "SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR". FILL REMAINING VOIDS IN RIPRAP HEAVY WITH "SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR" TO FULLY FILL ALL VOIDS AND LEAVE, ON AVERAGE, 2-INCHES ABOVE THE HIGHEST ROCK POINTS WHERE THEY ABUT EACH OTHER. PROVIDE LEVEL SURFACE OF THE ECO-PASSAGE.

THE TRANSITIONS OF THE AT-GRADE ECO-PASSAGE TO THE EDGES OF THE RIPRAP HEAVY SHALL BE GRADUAL WITH NO MORE THAN 2:1 SLOPE. SELECT CRUSHED MATERIAL SHALL BE COMPACTED ONCE IN PLACE.



TYPICAL SECTION THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

⚹ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE EXISTING STRUCTURE, P-44-119, IS A SINGLE SPAN REINFORCED CONCRETE DECK GIRDER BRIDGE ORIGINALLY CONSTRUCTED IN 1958. THE SUPERSTRUCTURE IS SUPPORTED ON TIMBER CAPS AND PILES AT TIMBER BACKED ABUTMENTS. THE EXISTING BRIDGE HAS AN OVERALL LENGTH OF 52'-0" AND AN OVERALL WIDTH OF 24'-9". EXISTING STRUCTURE P-44-119 IS TO BE REMOVED.

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" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-44-501" SHALL BE THE EXISTING GROUNDLINE.

THE EXISTING STREAM BED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

EXCAVATE TO THE BOTTOM OF ABUTMENT ELEVATION PRIOR TO DRIVING PILES.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

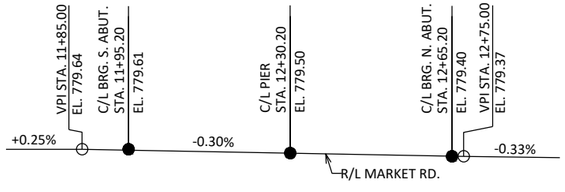
PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK, THE DECK EDGES, THE EXTERIOR 1'-0" OF THE UNDERSIDE OF THE DECK AND DIAPHRAGMS, THE EXPOSED TOP AND FRONT FACES OF THE WINGS TO 1'-0" PAST THE EDGE OF DECK ON THE ABUTMENTS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE "HR" TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

COFFERDAMS ARE REQUIRED AT THE PIER. AT ABUTMENTS AND PIER, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.



PROFILE GRADE LINE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-501

DRAWN BY VJD/MPG | PLANS CK'D CJM

CROSS SECTION, QUANTITIES, AND NOTES

SHEET 2 OF 13
46

SCALE = N.T.S.

STATE PROJECT NUMBER
6508-00-71

8

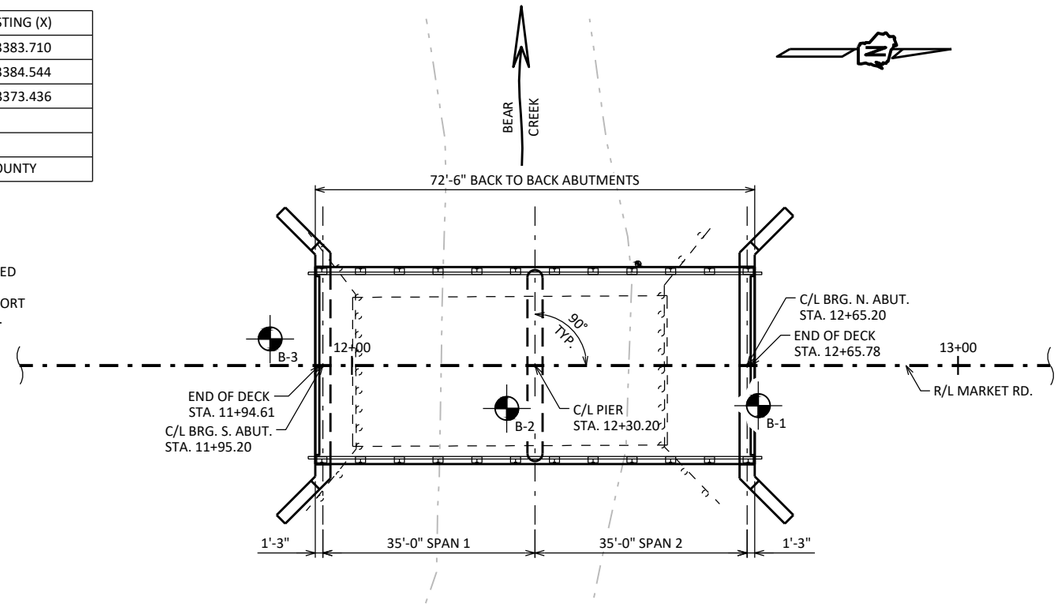
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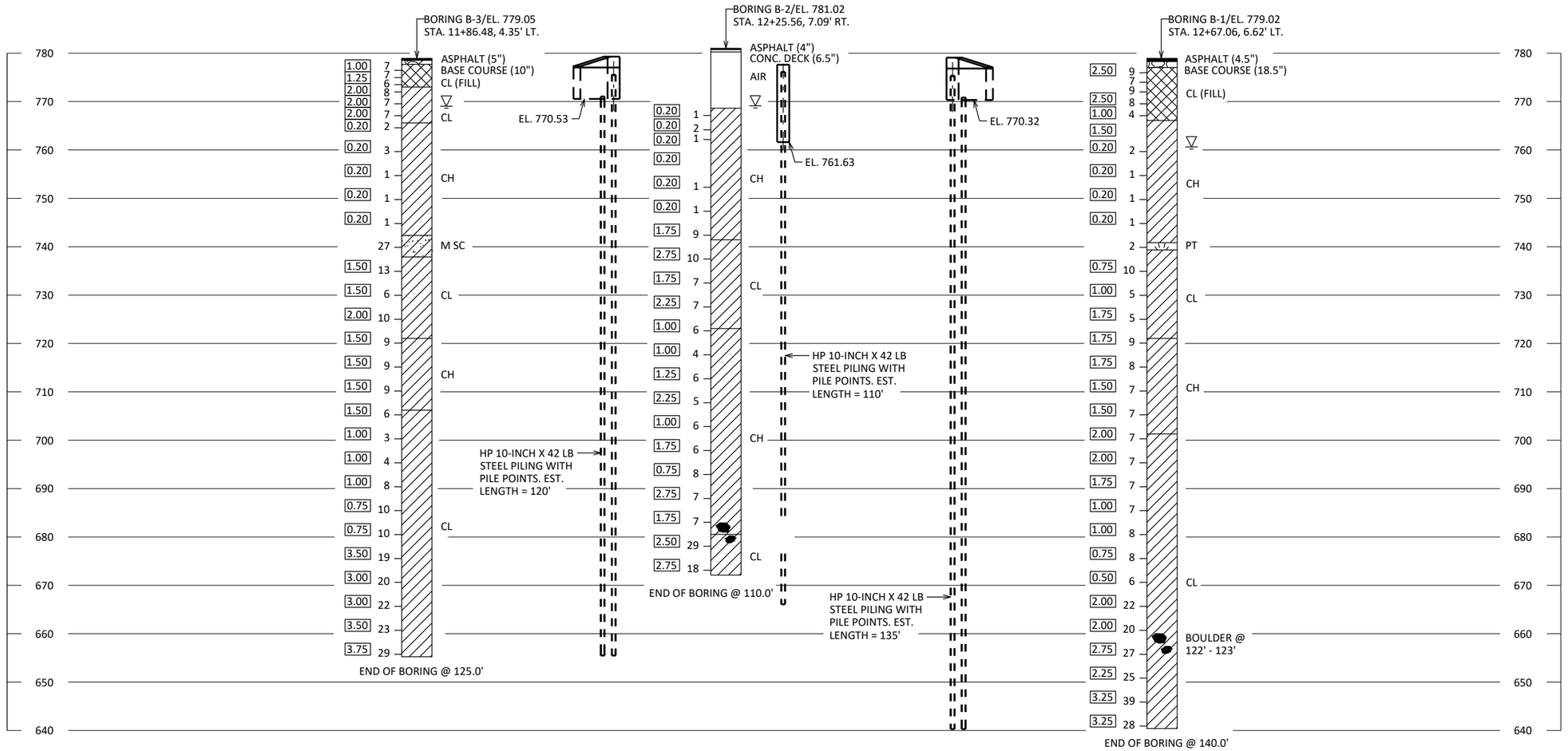
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	JUNE 27,2023	600447.308	793383.710
2	JUNE 29, 2023	600405.817	793384.544
3	JUNE 28, 2023	600366.639	793373.436
BORINGS COMPLETED BY: ECS MIDWEST, LLC.			
REPORT COMPLETED BY: ECS MIDWEST, LLC.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91), OUTAGAMIE COUNTY			

NOTES

BORING STATIONS AND OFFSETS ARE BASED ON R/L MARKET RD.

THE SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORT. REVIEW THE APPROPRIATE GEOTECHNICAL REPORT AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.





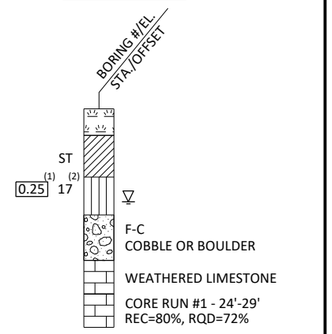
STATE PROJECT NUMBER

6508-00-71

MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

AT TIME OF DRILLING
END OF DRILLING
AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-501

DRAWN BY VJD/MPG | PLANS CK'D CJM

SUBSURFACE EXPLORATION

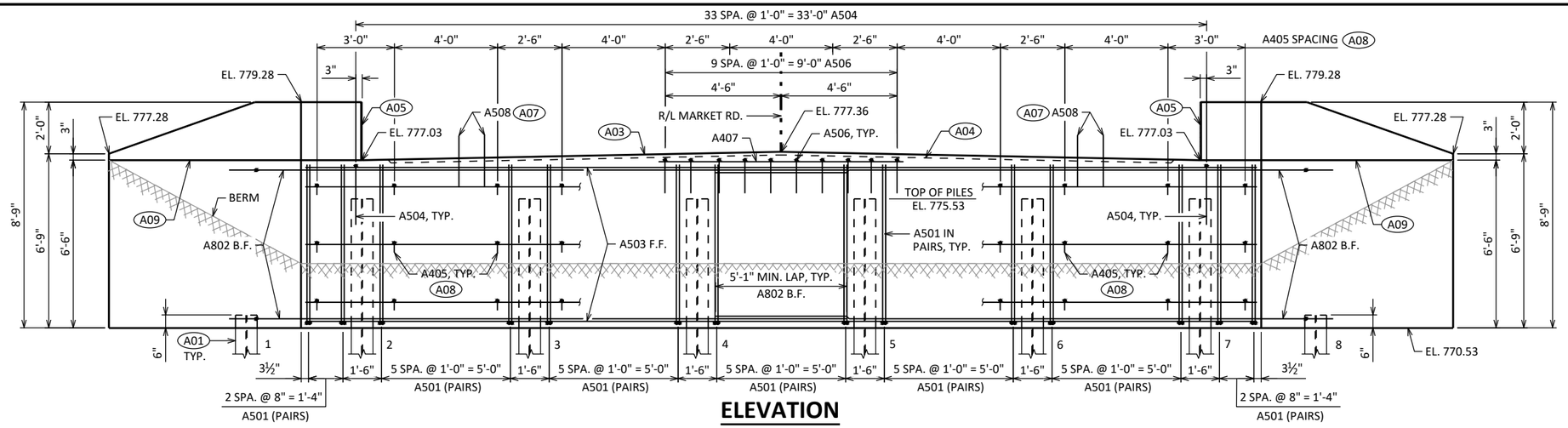
SHEET 3 OF 13
47

SCALE = N.T.S.

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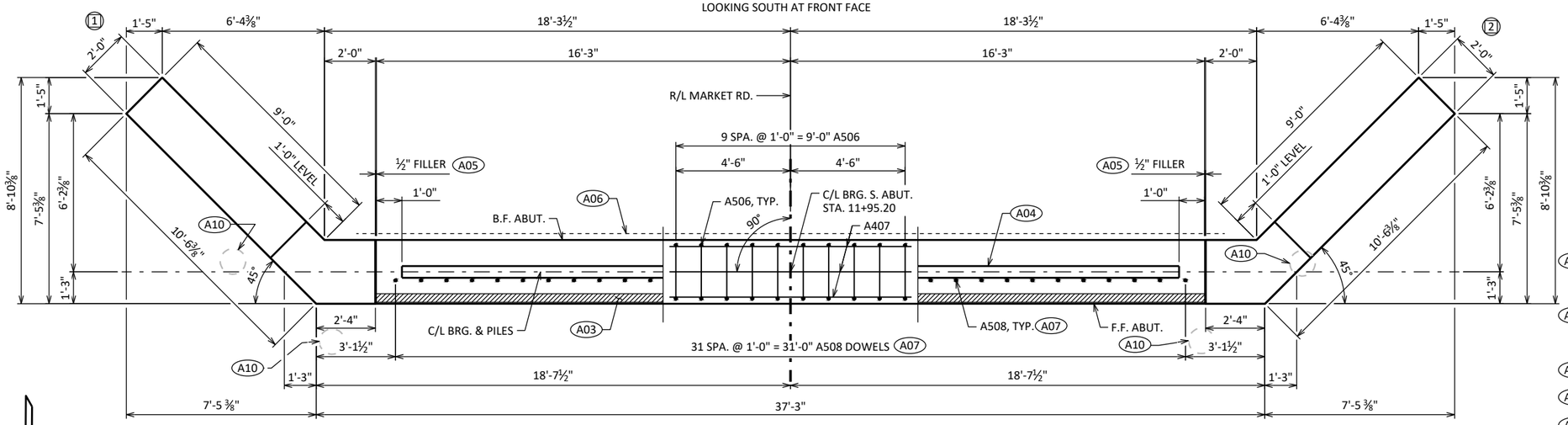
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STATE PROJECT NUMBER
6508-00-71

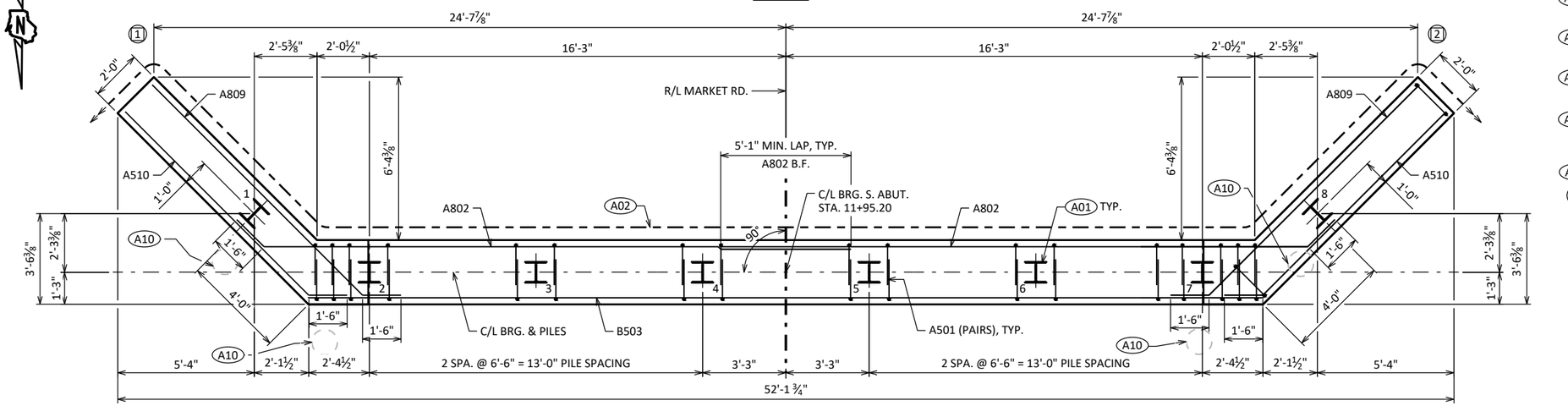


ELEVATION

LOOKING SOUTH AT FRONT FACE

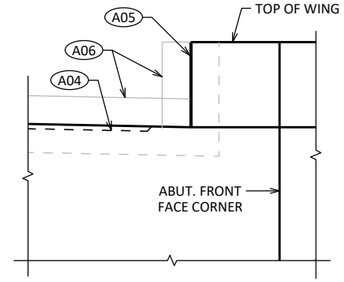


PLAN



PILE PLAN

SHOWING ABUT. BODY REINFORCEMENT



CORNER ELEVATION

LOOKING AT FRONT FACE OF ABUT.
SHOWING LIMITS OF R.M.W.
EACH CORNER SIMILAR

NOTES

DO NOT PLACE FILL ABOVE 3'-0" FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE)

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE SHEET 8 FOR SOUTH ABUTMENT BILL OF BARS.

FOR SECTION THRU ABUTMENT, SEE SHEET 5.

SEE SHEET 8 FOR PILE SPLICE DETAIL.

LEGEND

- (A01) SUPPORT ABUTMENT ON HP 10-INCH X 42 LB STEEL PILING WITH PILE POINTS. ESTIMATED 120'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 120 TONS PER PILE.
- (A02) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED. SEE SHEET 8 FOR RODENT SHIELD DETAIL.
- (A03) 4" X ¾" PREFORMED JOINT FILLER, OUT TO OUT OF BRIDGE SEAT.
- (A04) KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6".
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- (A07) BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-0" INTO CONCRETE.
- (A08) ALTERNATE THE POSITION OF THE 90° AND 180° HOOKS AT EACH VERTICAL LAYER OF TIES.
- (A09) OPTIONAL CONSTRUCTION JOINT. ¾" "V" GROOVE REQ'D AT F.F. IF CONST JOINT IS USED. PLACE 18" R.M.W. AT B.F. IF CONST. JOINT IS USED. COST FOR R.M.W. INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".
- (A10) APPROXIMATE LOCATION OF EXISTING 12" DIA. UNTREATED TIMBER PILE
- (X) INDICATES WING WALL NUMBER

F.F. = FRONT FACE B.F. = BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-501

DRAWN BY VJD/ZRM PLANS CK'D CJM

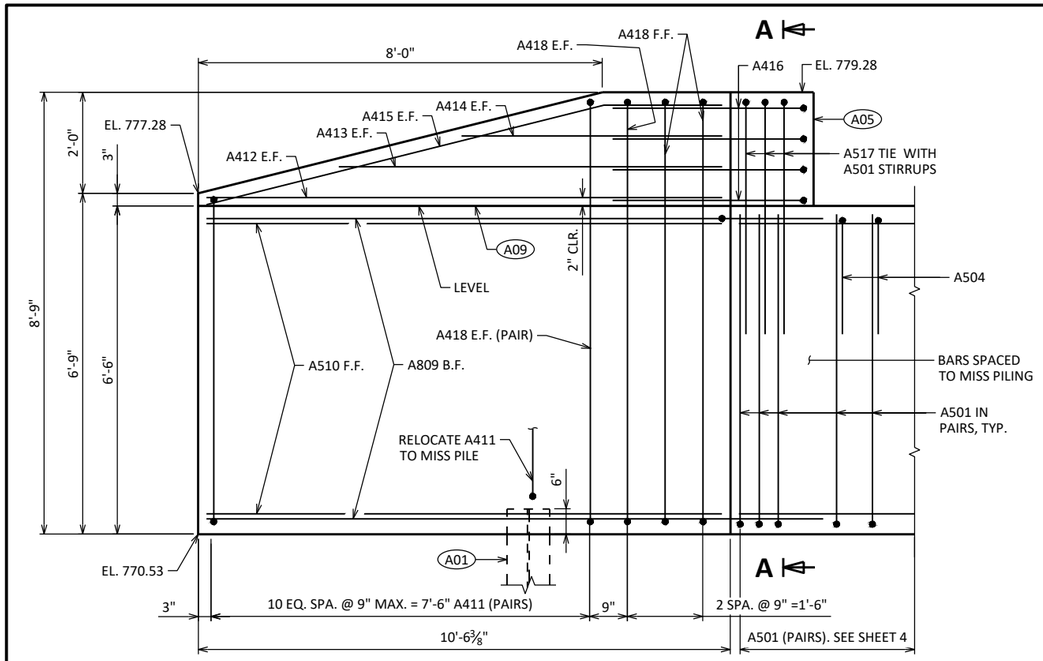
SOUTH ABUTMENT

SHEET 4 OF 13

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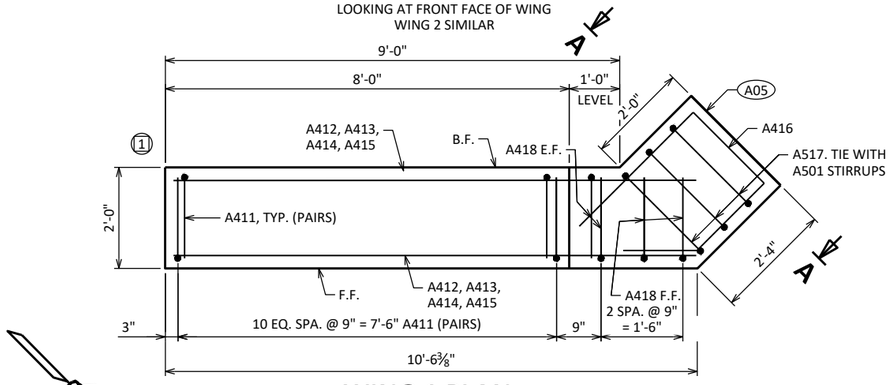
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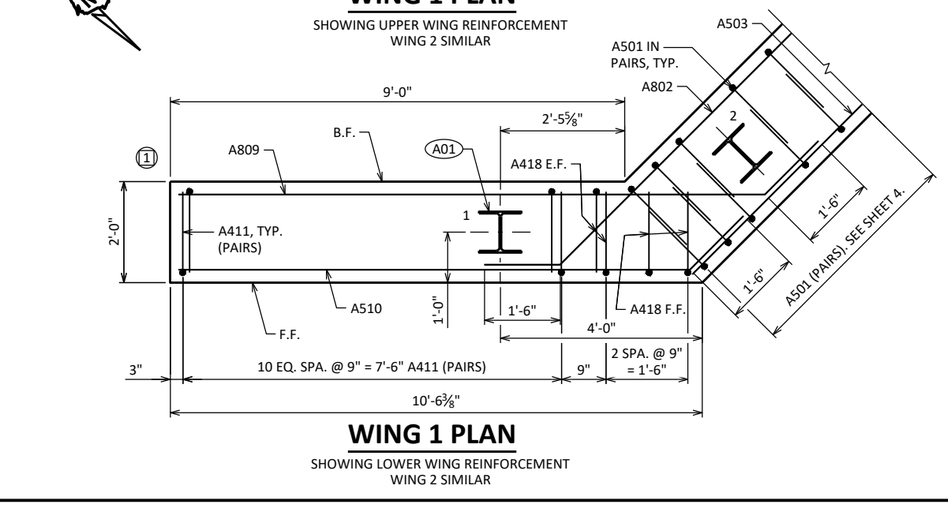
WING 1 ELEVATION

LOOKING AT FRONT FACE OF WING
WING 2 SIMILAR



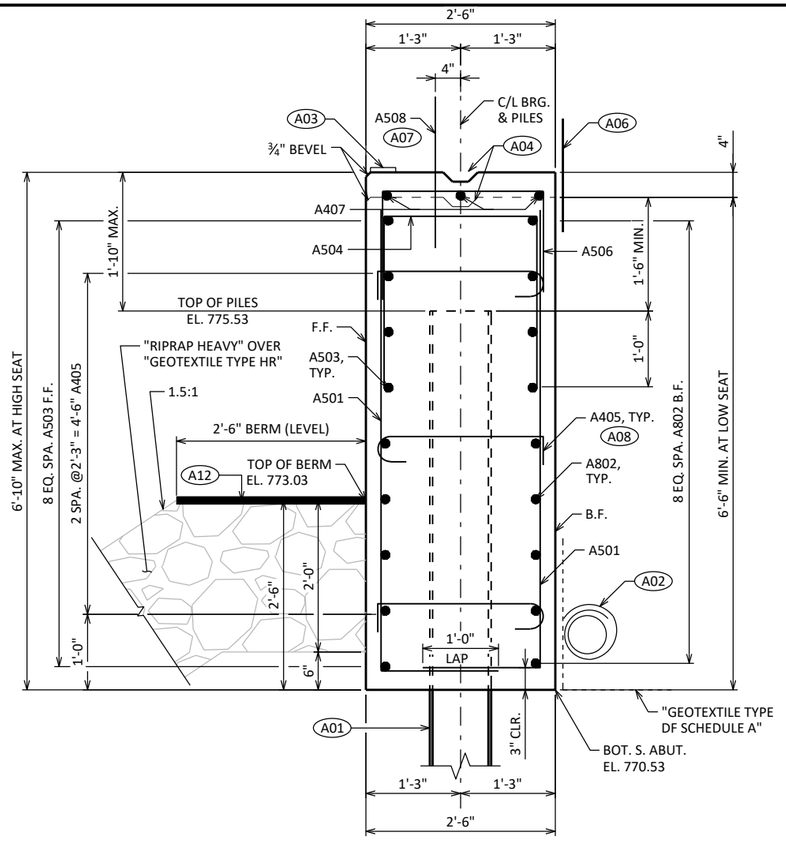
WING 1 PLAN

SHOWING UPPER WING REINFORCEMENT
WING 2 SIMILAR



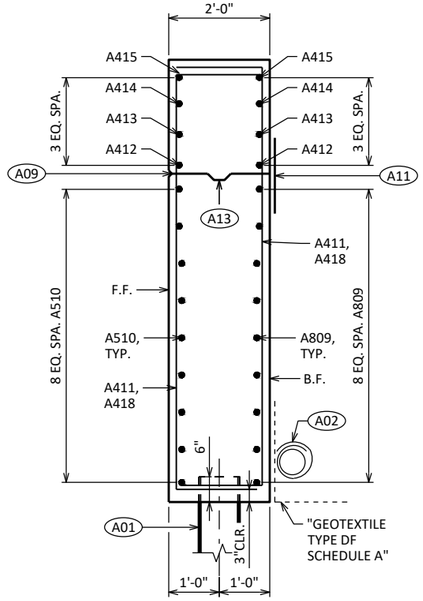
WING 1 PLAN

SHOWING LOWER WING REINFORCEMENT
WING 2 SIMILAR



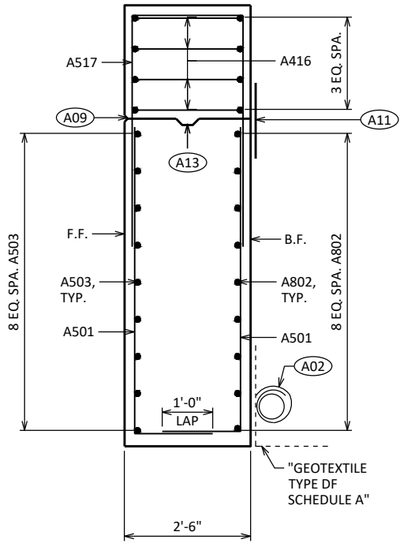
SECTION THRU ABUTMENT

SEE SHEET 4 FOR ADDITIONAL DETAILS



SECTION WING

WING 1 AND WING 2 SIMILAR



SECTION A-A

NOTES

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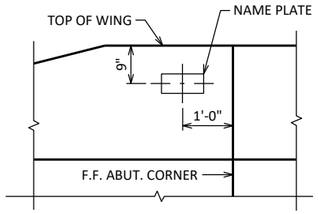
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SEE SHEET 8 FOR PILE SPLICE DETAIL.

LEGEND

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F.F. = FRONT FACE B.F. = BACK FACE E.F. = EACH FACE



NAME PLATE DETAIL

LOOKING AT FRONT FACE OF WING
WING 1 ONLY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-501

DRAWN BY VJD/ZRM PLANS CK'D CJM

SOUTH ABUTMENT DETAILS

SHEET 5 OF 13

STATE PROJECT NUMBER

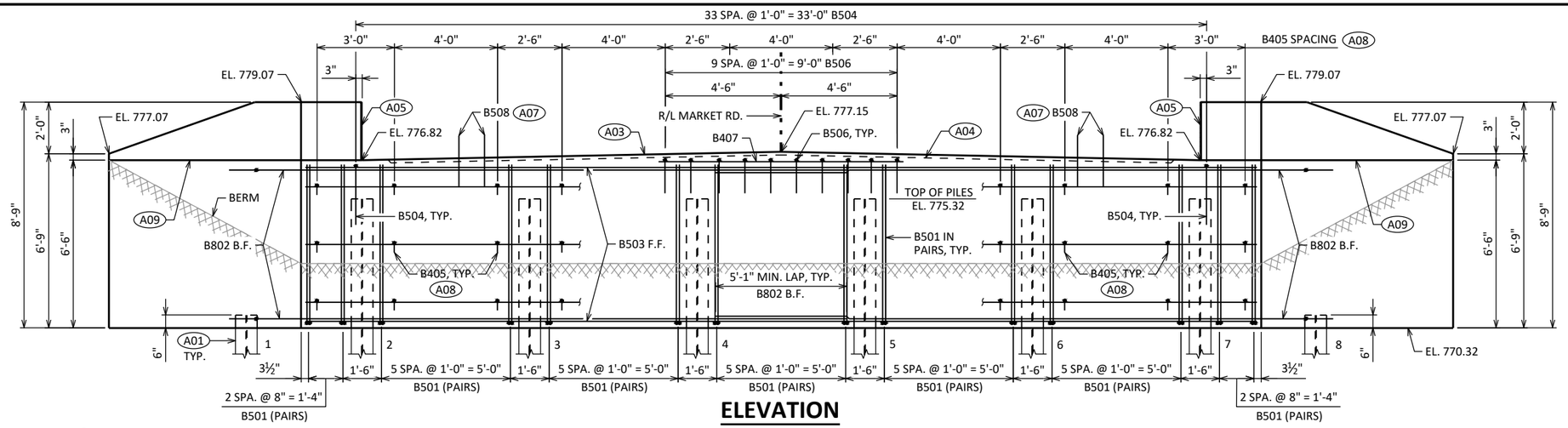
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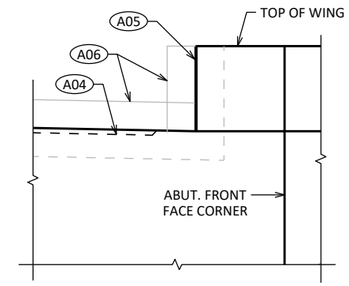
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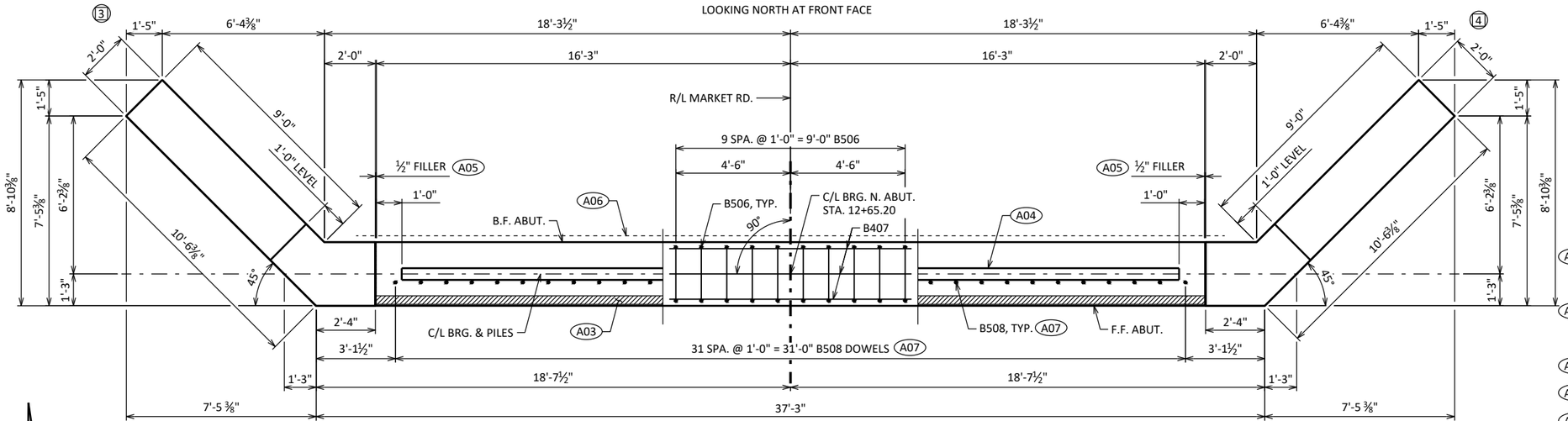
ELEVATION

LOOKING NORTH AT FRONT FACE

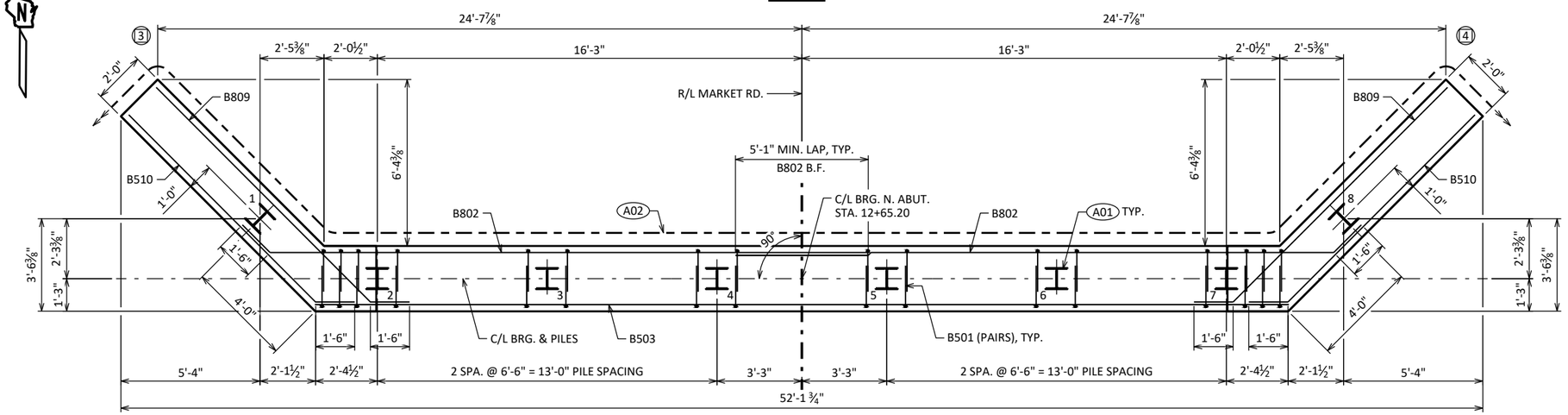


CORNER ELEVATION

LOOKING AT FRONT FACE OF ABUT.
SHOWING LIMITS OF R.M.W.
EACH CORNER SIMILAR



PLAN



PILE PLAN

SHOWING ABUT. BODY REINFORCEMENT

NOTES

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FOR SECTION THRU ABUTMENT, SEE SHEET 7.

SEE SHEET 8 FOR PILE SPLICE DETAIL.

LEGEND

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DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-501

DRAWN BY VJD | PLANS CK'D CJM

NORTH ABUTMENT

SHEET 6 OF 13

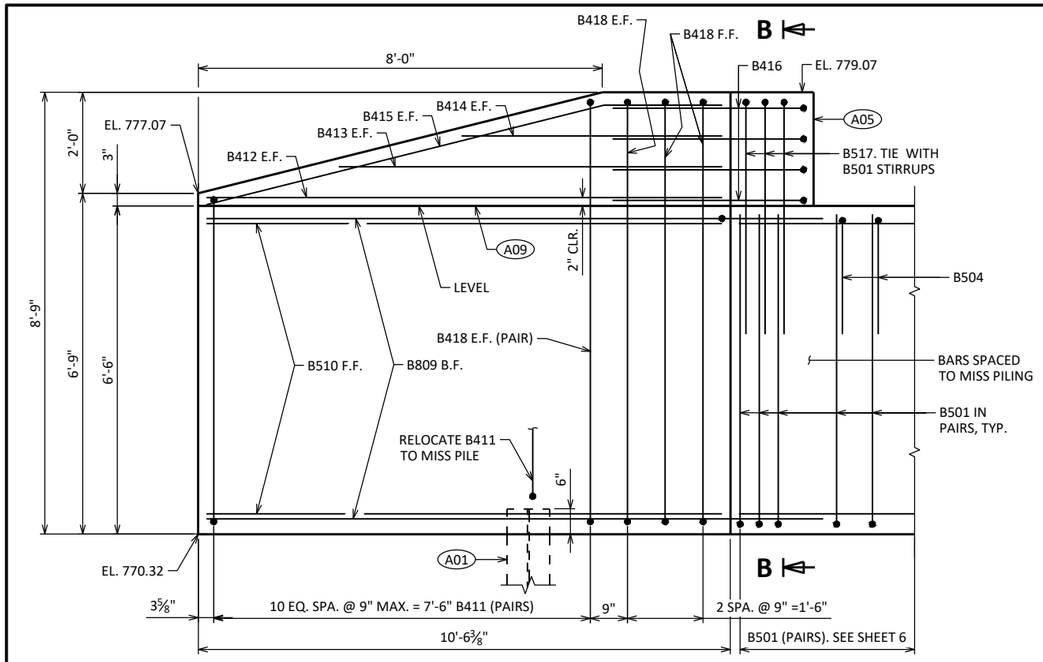
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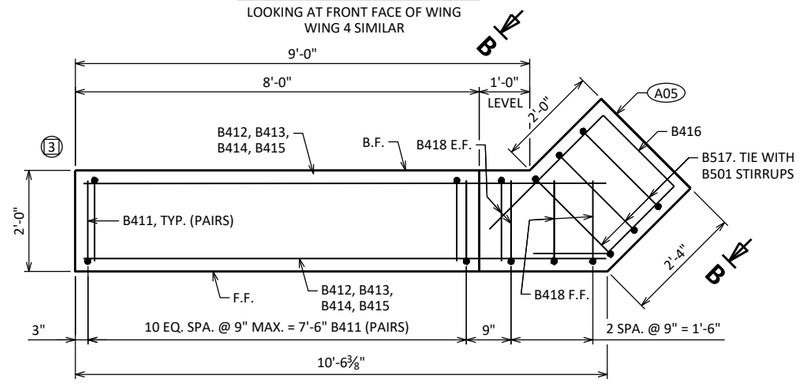
STATE PROJECT NUMBER

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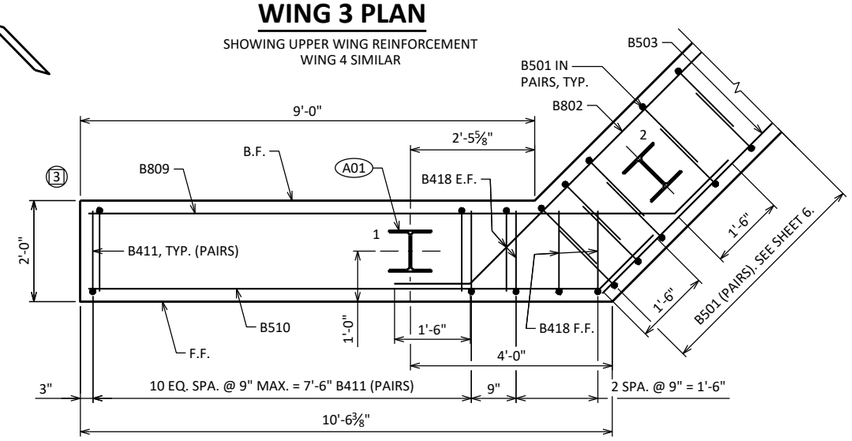
WING 3 ELEVATION

LOOKING AT FRONT FACE OF WING
WING 4 SIMILAR



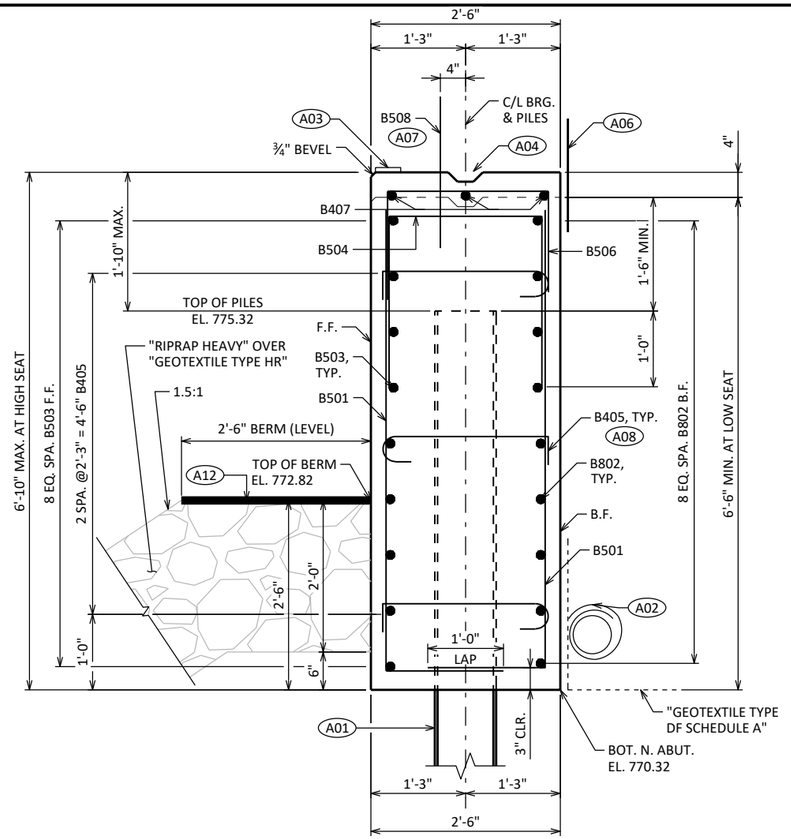
WING 3 PLAN

SHOWING UPPER WING REINFORCEMENT
WING 4 SIMILAR



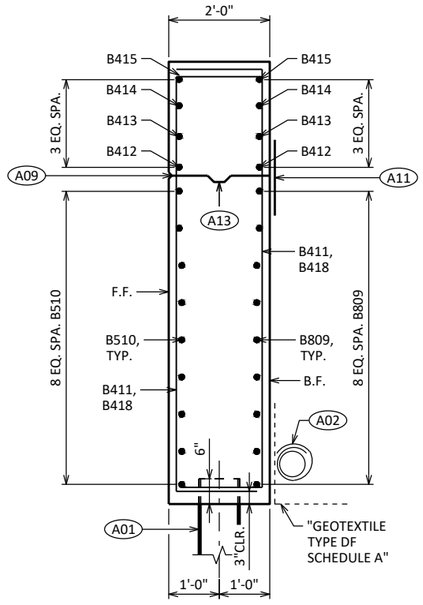
WING 3 PLAN

SHOWING LOWER WING REINFORCEMENT
WING 4 SIMILAR



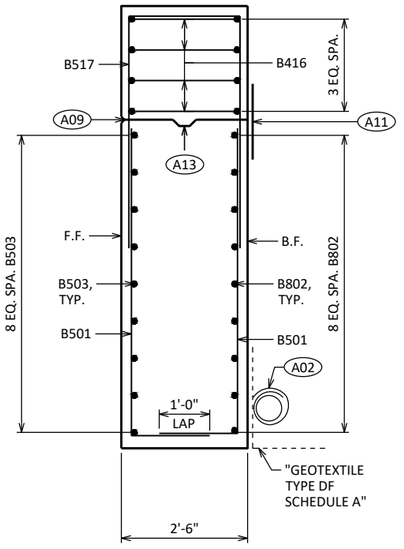
SECTION THRU ABUTMENT

SEE SHEET 6 FOR ADDITIONAL DETAILS



SECTION WING

WING 3 AND WING 4 SIMILAR



SECTION B-B

NOTES

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F.F. = FRONT FACE B.F. = BACK FACE E.F. = EACH FACE

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DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-501

DRAWN BY VJD | PLANS CK'D CJM

NORTH ABUTMENT DETAILS

SHEET 7 OF 13

8

8

STATE PROJECT NUMBER

6508-00-71

BILL OF BARS - SOUTH ABUTMENT

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

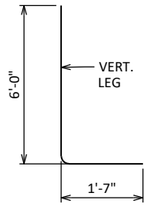
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		72	7'-6"	X		ABUT. BODY - VERT. - STIRRUPS
A802		18	24'-11"	X		ABUT. BODY - HORIZ. - BACK FACE
A503		9	37'-11"			ABUT. BODY - HORIZ. - FRONT FACE
A504		34	6'-10"	X		ABUT. BODY - VERT. - TOP
A405		36	3'-0"	X		ABUT. BODY - VERT. - TIES
A506		10	4'-10"	X		ABUT. BODY - VERT. - HIGH SEAT
A407		3	9'-6"			ABUT. BODY - HORIZ. - HIGH SEAT
A508	X	32	2'-0"			ABUT. BODY - VERT. - DOWELS
A809	X	18	13'-8"	X		WINGS - LOWER - HORIZ. - BACK FACE
A510	X	18	11'-7"	X		WINGS - LOWER - HORIZ. - FRONT FACE
A411	X	44	9'-5"	X	⚠	WINGS - VERT.
A412	X	4	10'-2"			WINGS - UPPER - HORIZ. - EACH FACE
A413	X	4	7'-4"			WINGS - UPPER - HORIZ. - EACH FACE
A414	X	4	5'-0"			WINGS - UPPER - HORIZ. - EACH FACE
A415	X	4	10'-4"	X		WINGS - UPPER - DIAG. - EACH FACE
A416	X	8	8'-4"	X		WINGS - UPPER - HORIZ.
A517	X	6	10'-6"	X		WINGS - UPPER - VERT.
A418	X	16	10'-10"	X		WINGS - VERT.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

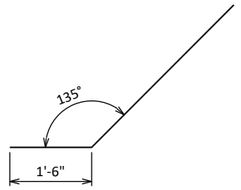
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY.

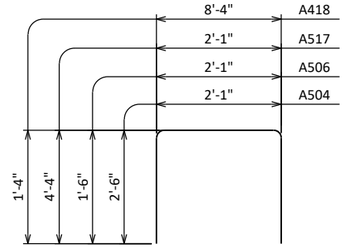
BAR MARK	NO. REQ'D.	LENGTH
A411	4 SERIES OF 11	8'-6" TO 10'-4"



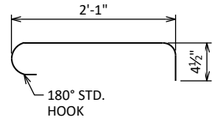
A501



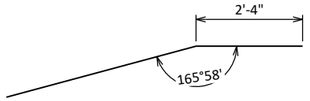
A802, A809, A510



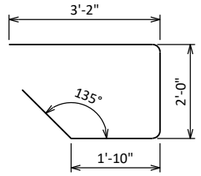
A504, A506, A517, A418



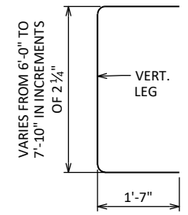
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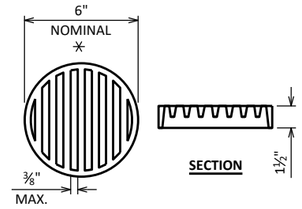
A415



A416



A411



RODENT SHIELD DETAIL

✳ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

BILL OF BARS - NORTH ABUTMENT

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

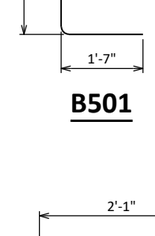
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		72	7'-6"	X		ABUT. BODY - VERT. - STIRRUPS
B802		18	24'-11"	X		ABUT. BODY - HORIZ. - BACK FACE
B503		9	37'-11"			ABUT. BODY - HORIZ. - FRONT FACE
B504		34	6'-10"	X		ABUT. BODY - VERT. - TOP
B405		36	3'-0"	X		ABUT. BODY - VERT. - TIES
B506		10	4'-10"	X		ABUT. BODY - VERT. - HIGH SEAT
B407		3	9'-6"			ABUT. BODY - HORIZ. - HIGH SEAT
B508	X	32	2'-0"			ABUT. BODY - VERT. - DOWELS
B809	X	18	13'-8"	X		WINGS - LOWER - HORIZ. - BACK FACE
B510	X	18	11'-7"	X		WINGS - LOWER - HORIZ. - FRONT FACE
B411	X	44	9'-5"	X	⚠	WINGS - VERT.
B412	X	4	10'-2"			WINGS - UPPER - HORIZ. - EACH FACE
B413	X	4	7'-4"			WINGS - UPPER - HORIZ. - EACH FACE
B414	X	4	5'-0"			WINGS - UPPER - HORIZ. - EACH FACE
B415	X	4	10'-4"	X		WINGS - UPPER - DIAG. - EACH FACE
B416	X	8	8'-4"	X		WINGS - UPPER - HORIZ.
B517	X	6	10'-6"	X		WINGS - UPPER - VERT.
B418	X	16	10'-10"	X		WINGS - VERT.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

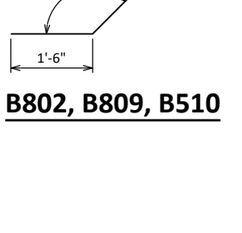
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY.

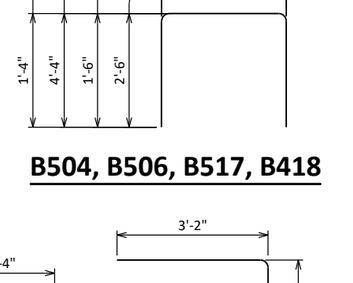
BAR MARK	NO. REQ'D.	LENGTH
B411	4 SERIES OF 11	8'-6" TO 10'-4"



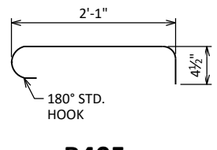
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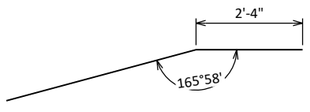
B802, B809, B510



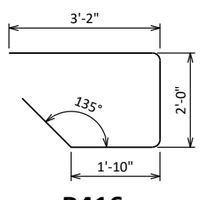
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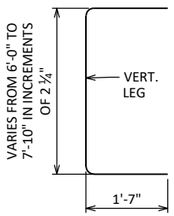
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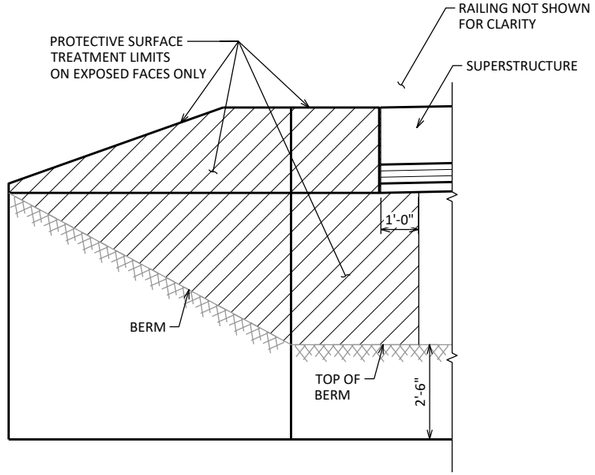
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B416

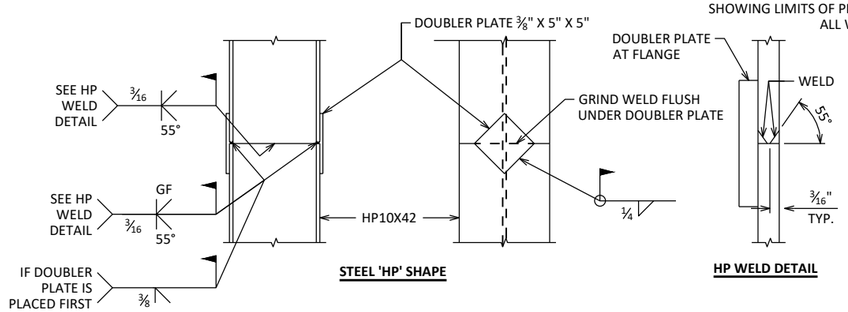


B411



WING ELEVATION

SHOWING LIMITS OF PROTECTIVE SURFACE TREATMENT
ALL WINGS SIMILAR



'HP' PILE DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-501

DRAWN BY VJD | PLANS CK'D CJM

ABUTMENT DETAILS

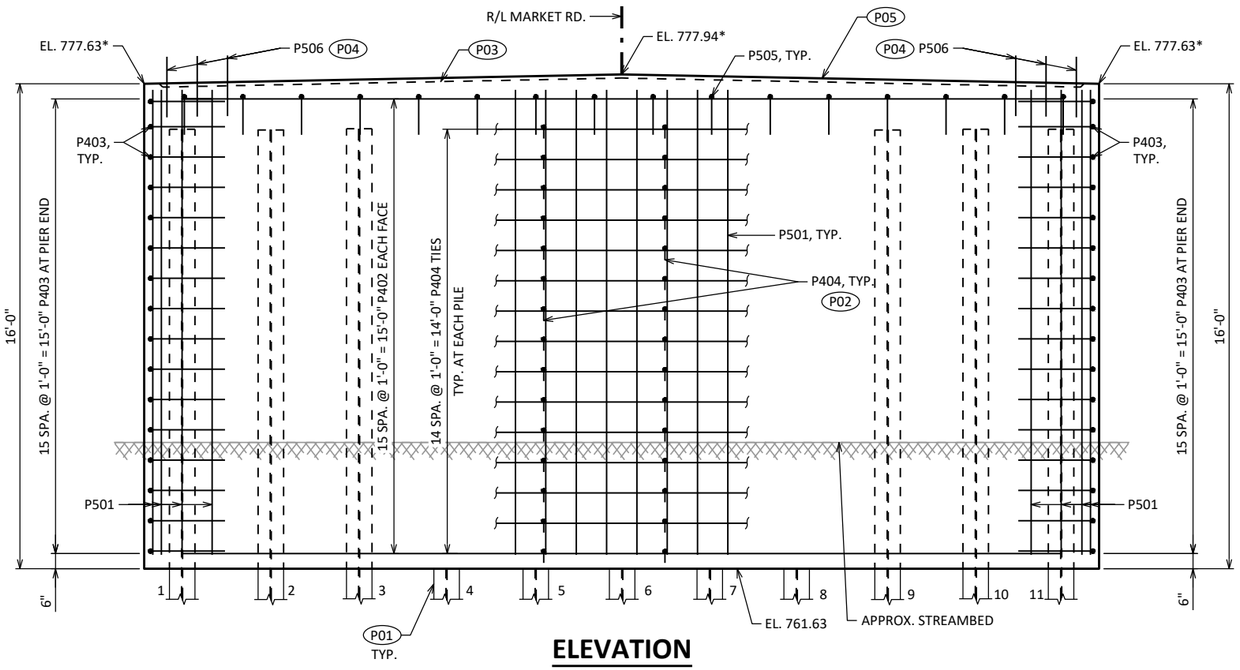
SHEET 8 OF 13

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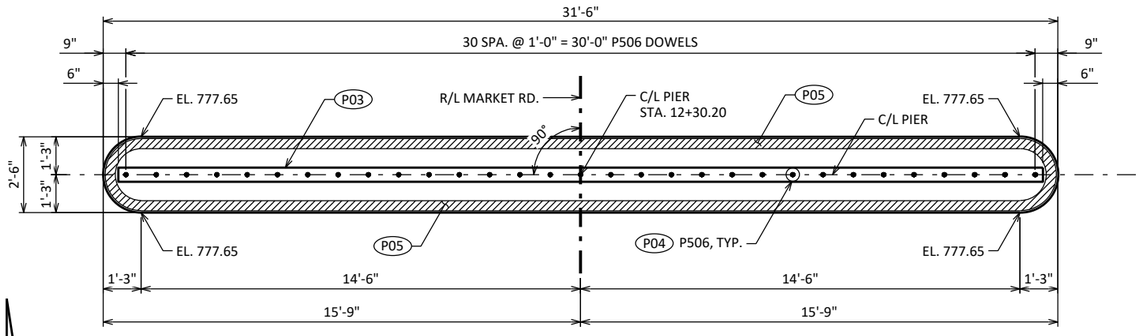
STATE PROJECT NUMBER

6508-00-71

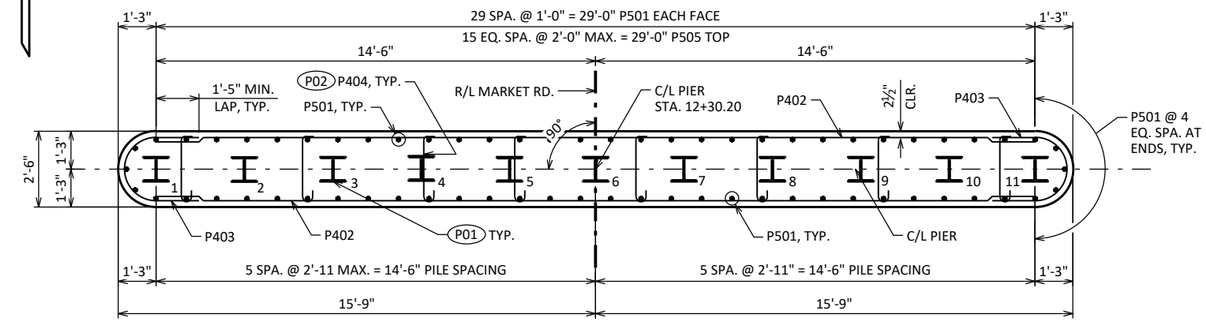


ELEVATION

LOOKING NORTH



PLAN



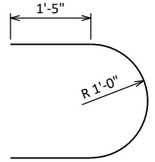
PILE PLAN

SHOWING SHAFT REINFORCEMENT

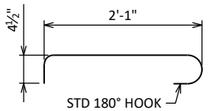
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

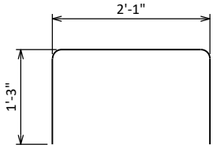
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P501		66	15'-4"			SHAFT - VERTICAL
P402		32	29'-0"			SHAFT - HORIZONTAL
P403		32	6'-0"	X		SHAFT - HORIZONTAL - ENDS
P404		165	3'-0"	X		SHAFT - HORIZONTAL - TIES
P505		16	4'-5"	X		SHAFT - VERTICAL - TOP
P506	X	31	2'-0"			SHAFT - VERTICAL - DOWELS



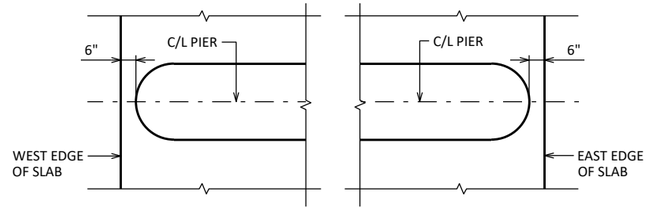
P403



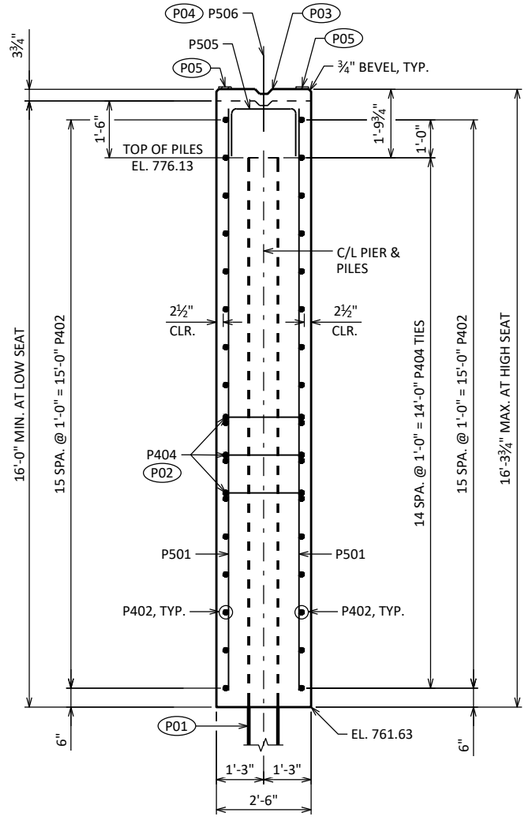
P404



P505



PLAN AT PIER ENDS



SECTION THRU PIER

NOTES

AT PIER, COFFERDAM REQUIRED. CONCRETE POURED UNDERWATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH STANDARD SPEC 502.3.5.3. CONCRETE POURED UNDERWATER SHALL NOT EXCEED 10.0 FEET IN DEPTH, UNLESS APPROVED OTHERWISE.

TOP OF PIER ELEVATIONS ARE ¾" BELOW BOTTOM OF SLAB TO ALLOW FOR ¾" FILLER.

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE PIER BILL OF BARS ON THIS SHEET.

FOR PILE SPLICE DETAIL, SEE SHEET 8.

LEGEND

- (P01) SUPPORT PIER ON HP 10 X 42 STEEL PILING WITH PILE POINTS. ESTIMATED 110'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 120 TONS PER PILE.
- (P02) PLACE P404 ADJACENT TO EACH PILE ON ONE SIDE ONLY. TIE TO NEAREST VERTICAL P501. VERTICALLY SPACE AT 1'-0" TO MATCH P402 OUTSIDE BARS. ALTERNATE THE POSITION OF THE 90° AND 180° HOOKS AT EACH VERTICAL LAYER OF TIES.
- (P03) KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6".
- (P04) P506 PIER DOWELS. 2'-0" LONG SPACED AT 1'-0" CENTERS. EMBED 1'-0" INTO CONCRETE. BARS MAY BE PLACED AFTER CONCRETE HAS BEEN POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.
- (P05) 4" X ¾" PREFORMED FILLER.
- ✳ ELEVATION IS AT CENTERLINE OF PIER. ELEVATIONS NEGLECT THE KEYED CONSTRUCTION JOINT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-501

DRAWN BY VJD | PLANS CK'D CJM

PIER

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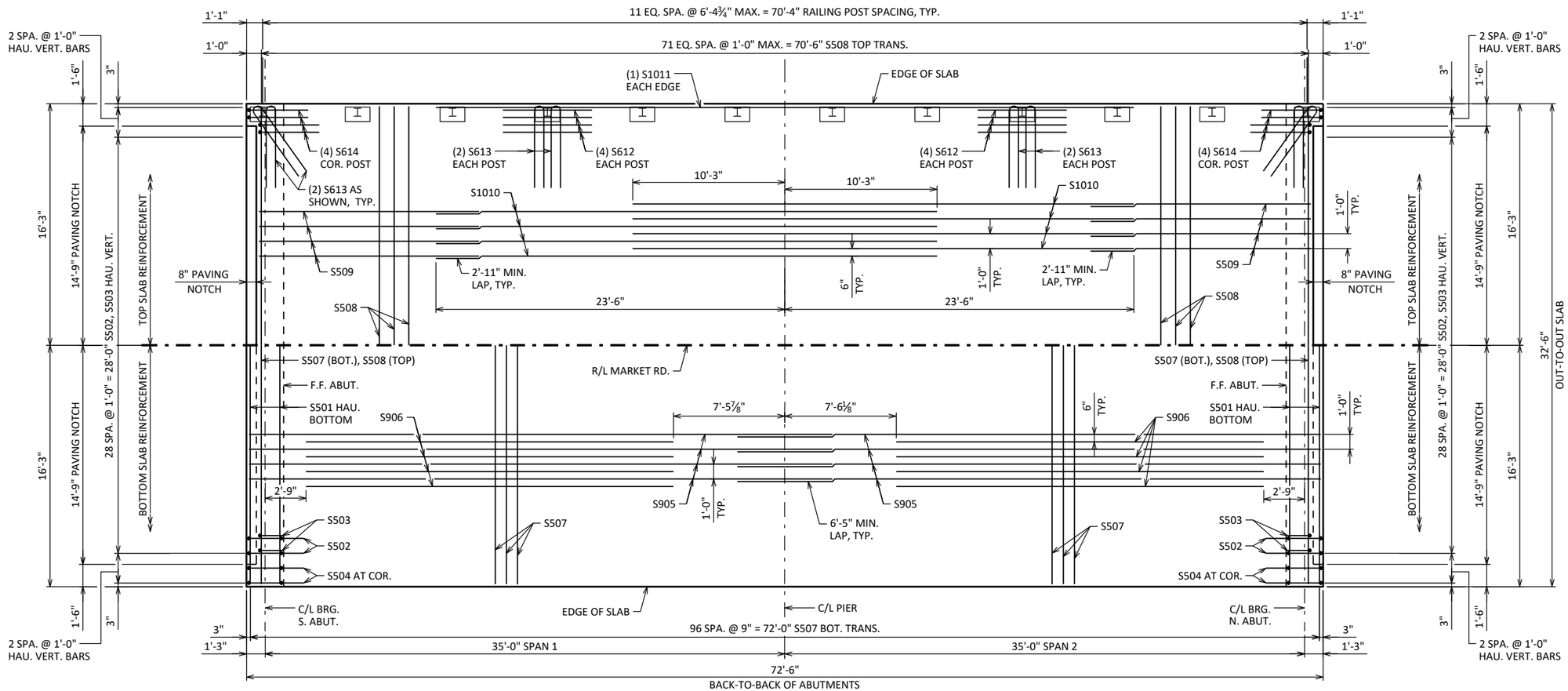
8

TOP OF DECK ELEVATIONS

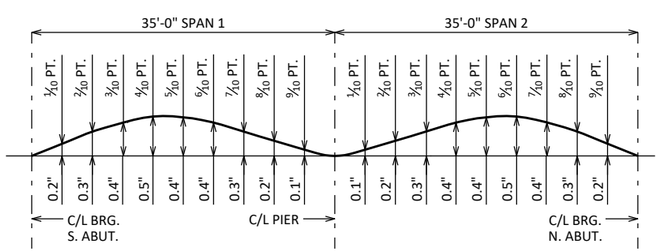
LOCATON	C/L BRG. S. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L PIER	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L BRG. N. ABUT.
W. EDGE OF SLAB	779.28	779.27	779.26	779.25	779.24	779.23	779.22	779.21	779.20	779.19	779.18	779.17	779.16	779.15	779.14	779.13	779.12	779.11	779.10	779.08	779.07
R/L MARKET ROAD	779.61	779.60	779.59	779.58	779.57	779.56	779.55	779.54	779.53	779.51	779.50	779.49	779.48	779.47	779.46	779.45	779.44	779.43	779.42	779.41	779.40
E. EDGE OF SLAB	779.28	779.27	779.26	779.25	779.24	779.23	779.22	779.21	779.20	779.19	779.18	779.17	779.16	779.15	779.14	779.13	779.12	779.11	779.10	779.08	779.07

STATE PROJECT NUMBER

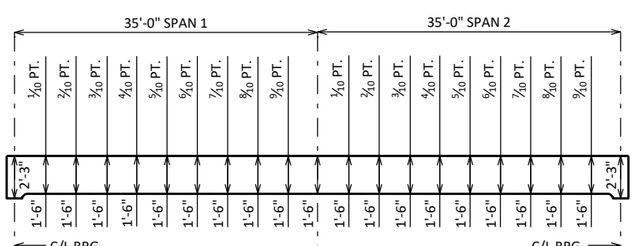
6508-00-71



SUPERSTRUCTURE REINFORCEMENT PLAN



CAMBER DIAGRAM



THICKNESS DIAGRAM

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB AND CROWN FOLLOW THIS PROCEDURE:

	TOP OF SLAB ELEVATION AT FINAL GRADE
MINUS.....	SLAB THICKNESS
PLUS.....	CAMBER
PLUS.....	FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
EQUALS =	TOP OF SLAB FALSEWORK ELEVATION

NOTES

ALL TRANSVERSE BAR STEEL REINFORCEMENT SHALL BE PLACED NORMAL TO THE R/L MARKET RD.

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

RAILINGS PLACED ON TOP OF THE SLAB SHALL BE INSTALLED AFTER FALSEWORK HAS BEEN RELEASED.

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTION.

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS, C/L OF PIER, AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE AS-BUILT PLANS.

SURVEY TOP OF SLAB ELEVATIONS

LOCATION	C/L BRG. S. ABUT.	5/10 PT.	C/L PIER	5/10 PT.	C/L BRG. N. ABUT.
W. EDGE OF SLAB					
CROWN					
E. EDGE OF SLAB					

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-501

DRAWN BY VJD | PLANS CK'D CJM

SUPERSTRUCTURE

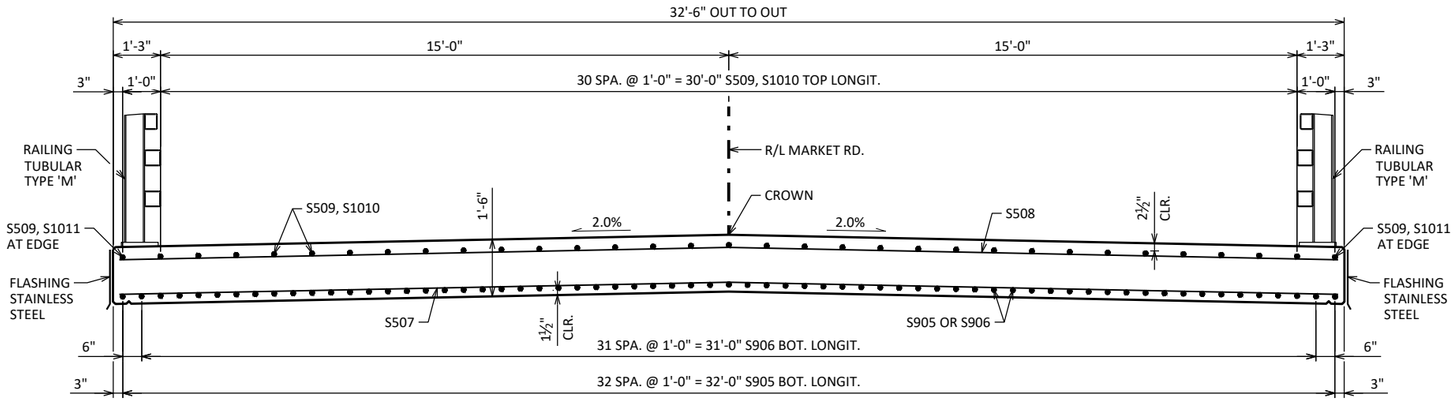
SHEET 10 OF 13

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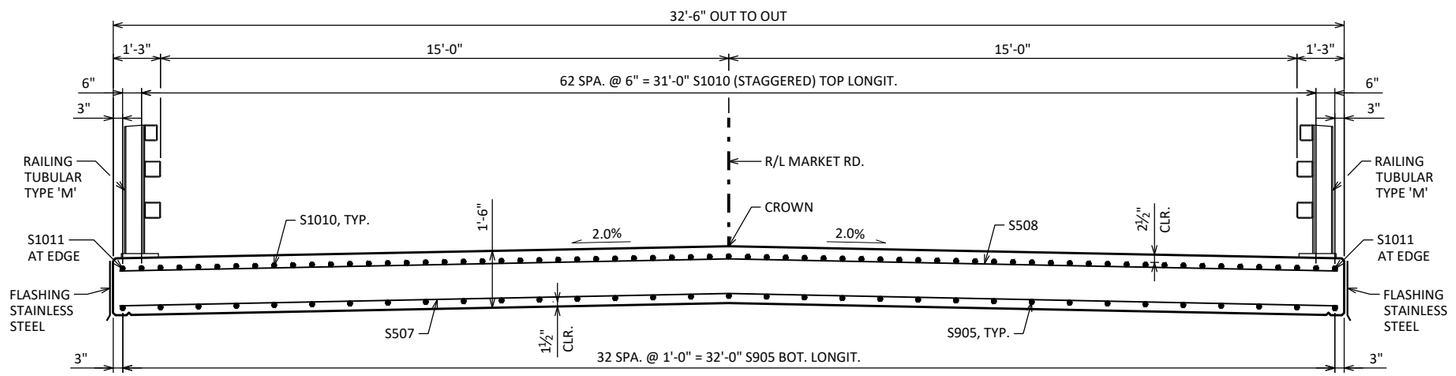
STATE PROJECT NUMBER

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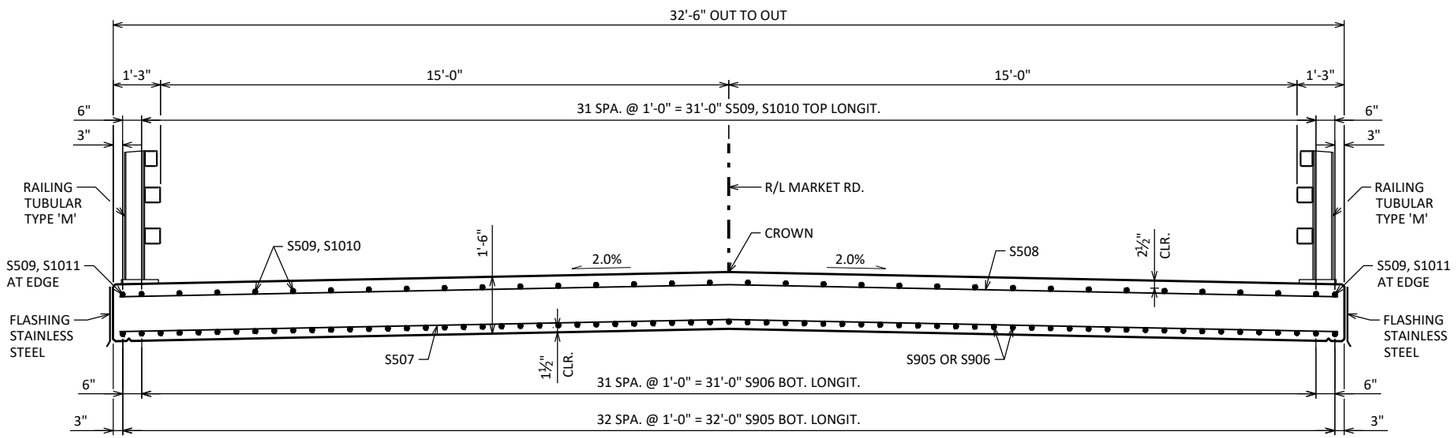
CROSS SECTION THRU BRIDGE - SPAN 1

IN SPAN SHOWING REINFORCEMENT
LOOKING NORTH



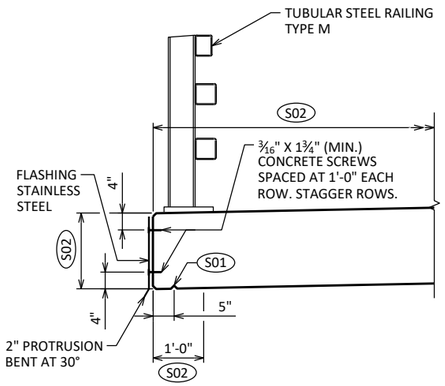
CROSS SECTION THRU BRIDGE - AT PIER

OVER PIER SHOWING REINFORCEMENT
LOOKING NORTH



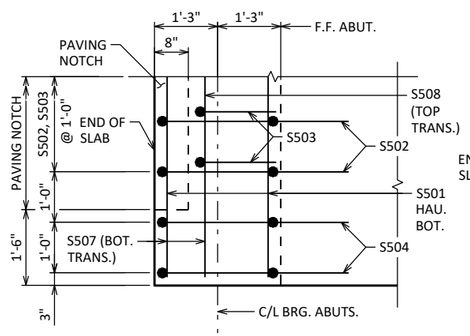
CROSS SECTION THRU BRIDGE - SPAN 2

IN SPAN SHOWING REINFORCEMENT
LOOKING NORTH



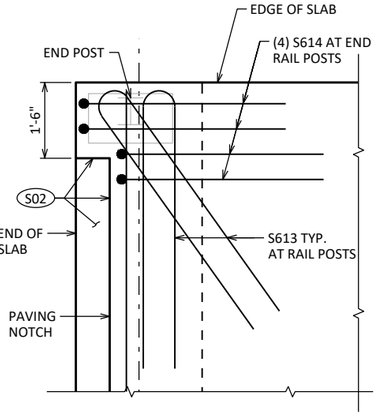
TYPICAL EDGE OF SLAB DETAIL

BAR STEEL OMITTED FOR CLARITY



CORNER PLAN

SHOWING HAUNCH REINFORCEMENT
WING 1 CORNER SHOWN, ALL CORNERS SIMILAR
NOT ALL BARS ARE SHOWN FOR CLARITY



CORNER PLAN

SHOWING REINFORCEMENT AT RAIL POSTS
WING 2 CORNER SHOWN, ALL CORNERS SIMILAR
NOT ALL BARS ARE SHOWN FOR CLARITY
SEE RAILING DETAILS ON SHEET 13.

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 PROTECTIVE SURFACE TREATMENT APPLICATION.

CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

EXTEND FLASHING TO BACK FACE OF ABUTMENT HAUNCH.

TOP OF FLASHING TO BEGIN APPROXIMATELY 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.

PLACE TRANSVERSE BARS NORMAL TO THE R/L MARKET ROAD

LEGEND

(S01) ¾" V-GROOVE REQ'D. EXTEND TO 6" FROM FRONT FACE OF ABUTMENT HAUNCH.

(S02) PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP OF SLAB, EDGE OF SLAB, EXTERIOR 1'-0" OF THE BOTTOM OF SLAB, AND TO THE PAVING NOTCHES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-501

DRAWN BY VJD | PLANS CK'D CJM

SUPERSTRUCTURE DETAILS 1

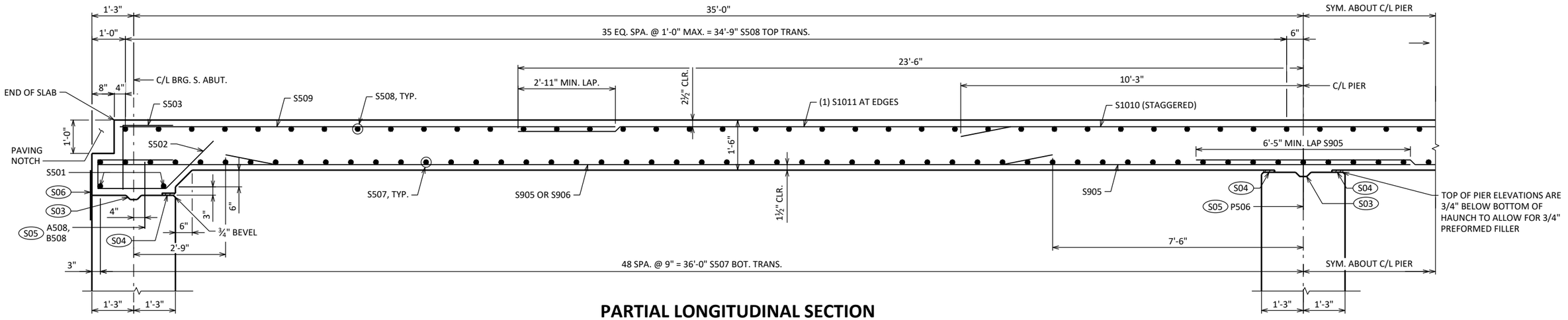
SHEET 11 OF 13
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STATE PROJECT NUMBER

6508-00-71



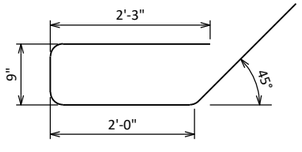
PARTIAL LONGITUDINAL SECTION

LOOKING WEST
SYMMETRICAL ABOUT C/L PIER

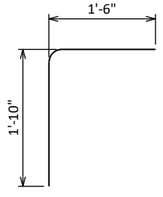
BILL OF BARS - SUPERSTRUCTURE

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

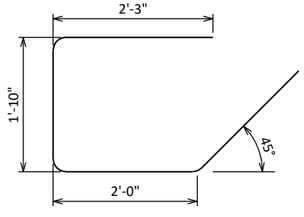
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S501	X	4	32'-2"			ABUT. HAUNCH - HORIZ.
S502	X	58	6'-10"	X		ABUT. HAUNCH - VERT.
S503	X	58	3'-3"	X		ABUT. HAUNCH - VERT.
S504	X	8	7'-11"	X		ABUT. HAUNCH - VERT. - CORNERS
S905	X	66	39'-4"			SLAB - BOT. LONGIT.
S906	X	64	24'-9"			SLAB - BOT. LONGIT. - IN SPAN
S507	X	97	32'-2"			SLAB - BOT. TRANS.
S508	X	72	32'-2"			SLAB - TOP TRANS.
S509	X	67	14'-10"			SLAB - TOP LONGIT. - ABUT. ENDS
S1010	X	63	33'-9"			SLAB - TOP LONGIT.
S1011	X	2	47'-0"			SLAB - TOP LONGIT. - EDGES
S612	X	80	6'-0"			SLAB - TOP LONGIT. - RAIL POSTS
S613	X	48	11'-6"	X		SLAB - TOP TRANS. - RAIL POSTS
S614	X	16	4'-8"	X		SLAB - TOP LONGIT. - CORNER POSTS



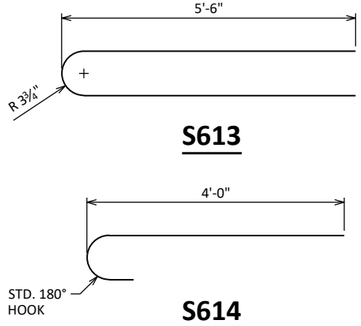
S502



S503

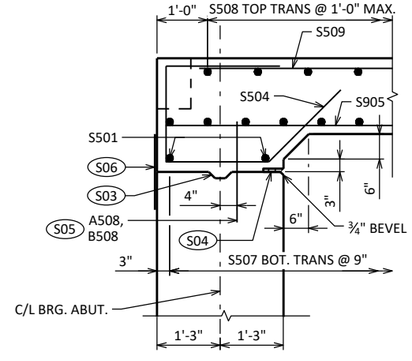


S504



S613

S614



PARTIAL LONGITUDINAL SECTION

AT CORNERS OF SLAB

LEGEND

- (S03) CONST. JOINT FORMED BY A BEVELED 2" X 6" KEYWAY.
- (S04) 4" X ¾" PREFORMED FILLER (LENGTH OF ABUTMENT AND PIER)
- (S05) PIER AND ABUTMENT DOWELS. MAY BE PLACED AFTER CONCRETE HAS BEEN POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED BARS 1'-0".
- (S06) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS AT BACK FACE OF ABUTMENT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-501

DRAWN BY VJD | PLANS CK'D CJM

SUPERSTRUCTURE DETAILS 2

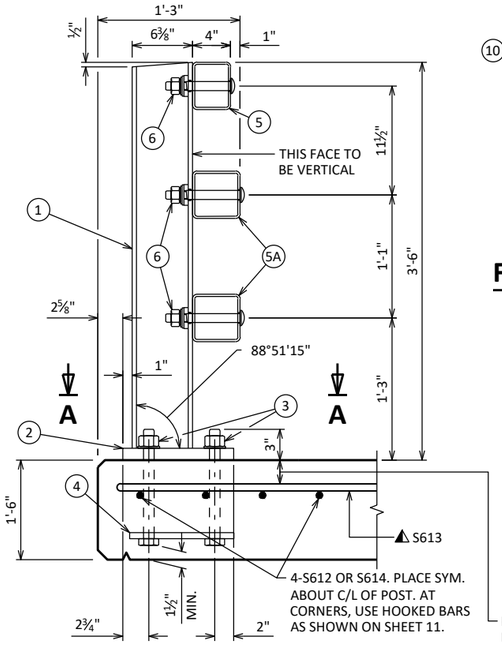
SHEET 12 OF 13

8

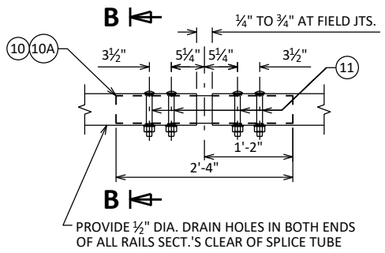
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STATE PROJECT NUMBER

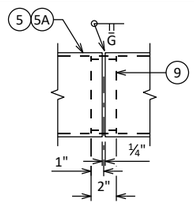
6508-00-71



SECTION THRU RAILING ON DECK

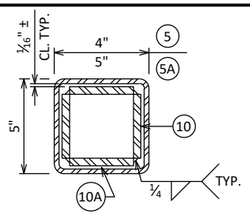


FIELD ERECTION JOINT DETAIL

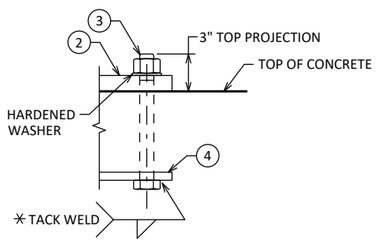


SHOP RAIL SPLICE DETAIL

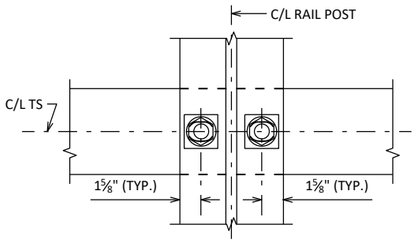
LOCATION MUST BE SHOWN ON SHOP DRAWINGS



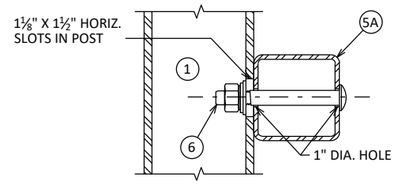
SECTION B-B



ANCHOR BOLTS



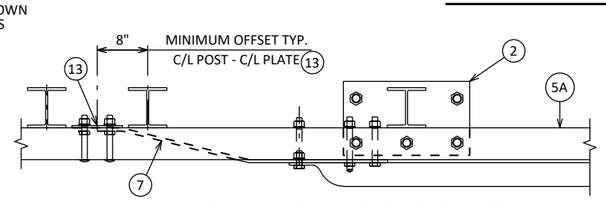
SECTION THRU POST WEB



SECTION THRU RAIL

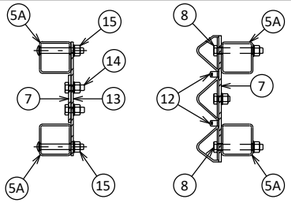
NOTE: CONNECTIONS AT LOWER RAILS SHOWN. CONNECTIONS AT TOP RAIL SIMILAR.

TYPICAL RAIL TO POST CONNECTIONS



TOP VIEW AT END POST

THRIE BEAM RAIL ATTACHMENT



SECTION C-C

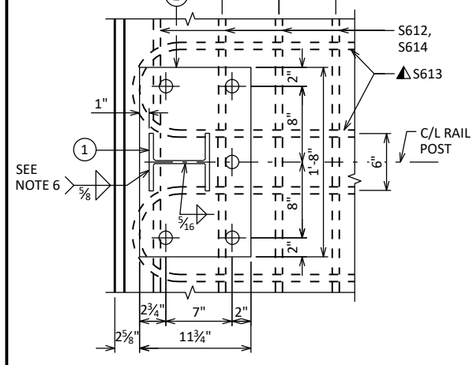
SECTION D-D

LEGEND

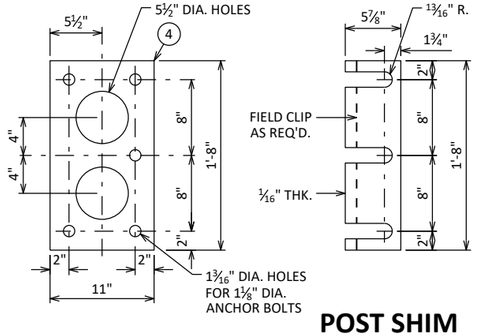
1. W6 X 25 WITH 1½" X 1½" HORIZ. SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
2. PLATE 1¼" X 11¾" X 1'-8" WITH 1 7/16" DIA. OVERSIZED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.
3. ASTM A449 - 1⅛" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 10¾" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR CONSTRUCTABILITY.)
4. ⅝" X 11" X 1'-8" ANCHOR PLATE (GALVANIZED) WITH 1 3/16" DIA. HOLES FOR ANCHOR BOLTS NO. 3
5. TS 5 X 4 X 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
5A. TS 5 X 5 X 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
6. ⅞" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, 3/16" X 1⅝" X 1⅝" MIN. WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION.)
7. ½" THK. BACK-UP PLATE WITH 2 - ⅞" X 1½" THREADED SHOP WELDED STUDS (NO. 12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO. 5A.
8. 1" DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5A FOR ⅞" DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO. 7.
9. SPLICE SLEEVE FABRICATED FROM ¼" PLATE. PROVIDE "SLIDING FIT".
10. ⅜" X 3⅝" X 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.
10A. ⅜" X 2⅝" X 2'-4" PLATE USED IN NO. 5, ⅜" X 3⅝" X 2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.
11. ⅞" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE 15/16" X 1¼" LONGIT. SLOTTED HOLES IN PLATE NO. 10A. AT FIELD JOINTS AND 15/16" X 2¼" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A. PROVIDE 15/16" DIA. ROUND HOLES IN TUBES NO. 5 AND NO. 5A.
12. ⅞" DIA. X 1½" LONG THREADED SHOP WELDED STUDS (2 REQ'D).
13. ⅜" X 8" X 1'-6" PLATE. BOLT TO RAIL AS SHOWN IN DETAIL. REQ'D. AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYM. ABOUT TUBES NO. 5A.
14. ⅞" DIA. X 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQ'D.).
15. 1" DIA. HOLES IN TUBES NO. 5A FOR ⅞" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4 REQ'D.). 4 HOLES IN TUBES.

GENERAL NOTES

1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M" WHICH INCLUDES ALL ITEMS SHOWN.
2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.
3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL ⅛ TURN.
4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN A PANEL OVER EXPANSION JOINTS.
5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.
8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY SSPC SPECIFICATIONS.



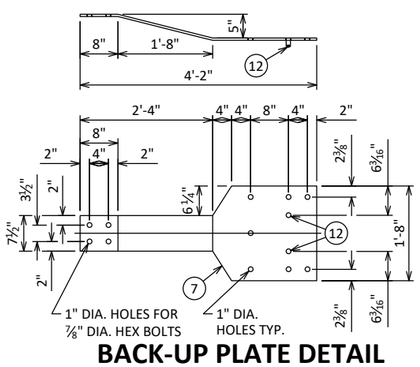
SECTION A-A



ANCHOR PLATE

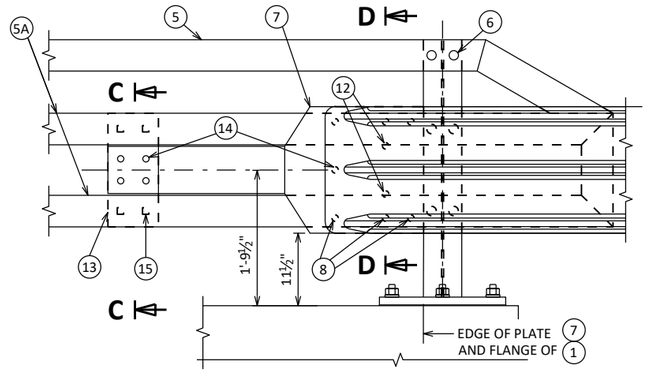
AT RAIL TO DECK CONNECTION

POST SHIM DETAIL



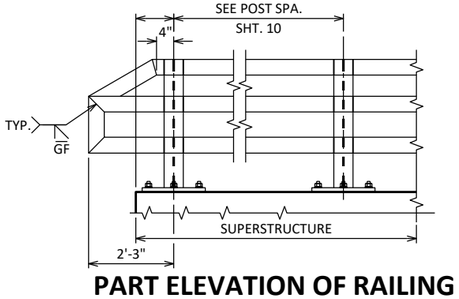
BACK-UP PLATE DETAIL

AT BEAM GUARD ATTACHMENT

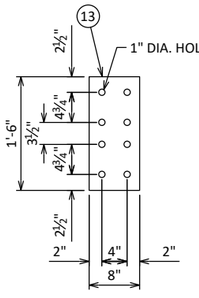


DETAIL AT END POST

THRIE BEAM RAIL ATTACHMENT



PART ELEVATION OF RAILING



ANCHOR PLATE

AT BEAM GUARD ATTACHMENT

▲ TIE TO TOP MAT OF STEEL.

✳ ANCHOR BOLT ASSEMBLY MAY BE TACK WELDED, EITHER IN THE SHOP, OR IN THE FIELD AFTER THE ANCHOR PLATE IS PLACED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-44-501

DRAWN BY VJD | PLANS CK'D CJM

TUBULAR STEEL RAILING TYPE "M"

SHEET 13 OF 13

57

SCALE = 2.00

8

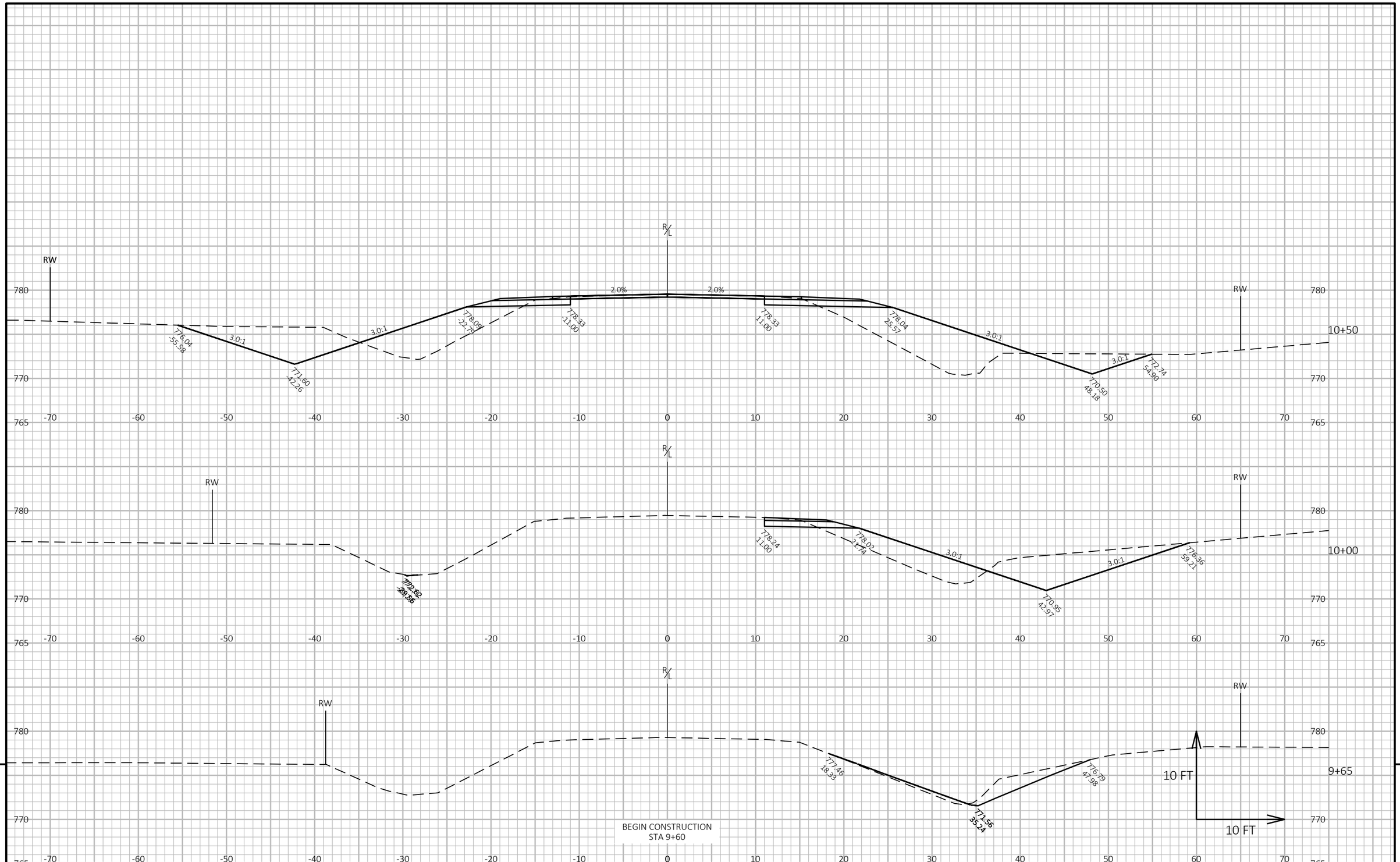
8

DIVISION 1

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
09+60	960.00	0.00	0.00	0.00	0.37	0	0	0	0	0	0
09+70	970.00	10.00	26.08	0.00	11.50	5	0	2	5	3	3
09+80	980.00	10.00	51.95	0.00	27.04	14	0	7	19	11	8
09+90	990.00	10.00	61.58	0.00	33.08	21	0	11	40	25	15
10+00	1000.00	10.00	57.85	0.00	37.22	22	0	13	62	41	21
10+10	1010.00	10.00	67.82	0.00	52.94	23	0	17	85	63	23
10+20	1020.00	10.00	75.92	6.75	76.52	27	1	24	112	93	19
10+30	1030.00	10.00	79.30	6.75	95.51	29	3	32	141	133	5
10+40	1040.00	10.00	76.79	6.75	101.72	29	3	37	170	179	-16
10+50	1050.00	10.00	76.73	6.75	112.60	28	3	40	198	229	-41
10+60	1060.00	10.00	80.54	6.75	127.68	29	3	44	227	284	-70
10+70	1070.00	10.00	84.88	6.75	139.46	31	3	49	258	345	-103
10+80	1080.00	10.00	87.47	6.75	145.70	32	3	53	290	411	-140
10+90	1090.00	10.00	93.86	6.75	151.50	34	3	55	324	480	-178
11+00	1100.00	10.00	127.52	6.75	149.67	41	3	56	365	550	-210
11+10	1110.00	10.00	130.80	6.75	148.50	48	3	55	413	619	-234
11+20	1120.00	10.00	132.46	6.75	147.90	49	3	55	462	688	-257
11+30	1130.00	10.00	128.00	6.75	150.54	48	3	55	510	756	-280
11+40	1140.00	10.00	107.16	6.75	151.48	44	3	56	554	826	-309
11+50	1150.00	10.00	98.28	6.75	155.54	38	3	57	592	898	-346
11+60	1160.00	10.00	94.52	6.75	160.71	36	3	59	628	971	-386
11+70	1170.00	10.00	91.27	6.75	177.30	34	3	63	662	1,050	-434
11+80	1180.00	10.00	90.33	6.75	194.44	34	3	69	696	1,136	-489
11+90	1190.00	10.00	74.90	6.75	201.90	31	3	73	727	1,228	-553
11+95	1195.00	5.00	63.21	6.75	223.05	13	1	39	740	1,276	-589

DIVISION 2

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
12+65.38	1265.38	0.00	51.98	6.75	166.89	0	0	0	0	0	0
12+70	1270.00	4.62	54.95	6.75	163.38	9	1	28	9	35	-27
12+80	1280.00	10.00	62.45	6.75	143.97	22	3	57	31	106	-79
12+90	1290.00	10.00	68.38	6.75	124.89	24	3	50	55	169	-121
13+00	1300.00	10.00	69.97	6.75	118.89	26	3	45	81	225	-154
13+10	1310.00	10.00	68.87	6.75	118.20	26	3	44	107	280	-186
13+20	1320.00	10.00	68.33	6.75	119.20	25	3	44	132	335	-219
13+30	1330.00	10.00	36.52	6.75	123.20	19	3	45	151	391	-259
13+40	1340.00	10.00	31.99	6.75	132.50	13	3	47	164	450	-308
13+50	1350.00	10.00	29.02	6.75	138.73	11	3	50	175	513	-363
13+60	1360.00	10.00	27.00	6.75	149.20	10	3	53	185	579	-422
13+70	1370.00	10.00	24.51	6.75	153.18	10	3	56	195	649	-485
13+80	1380.00	10.00	21.03	6.75	157.60	8	3	58	203	721	-552
13+90	1390.00	10.00	22.40	6.75	160.61	8	3	59	211	795	-621
14+00	1400.00	10.00	18.15	6.75	157.20	8	3	59	219	869	-690
14+10	1410.00	10.00	17.12	6.75	148.20	7	3	57	226	940	-757
14+20	1420.00	10.00	17.42	6.75	136.10	6	3	53	232	1,006	-820
14+30	1430.00	10.00	17.35	6.75	125.20	6	3	48	238	1,066	-877
14+40	1440.00	10.00	17.16	6.75	116.12	6	3	45	244	1,123	-931
14+50	1450.00	10.00	17.14	0.00	105.55	6	1	41	250	1,174	-977
14+60	1460.00	10.00	10.99	0.00	90.67	5	0	36	255	1,219	-1,017
14+70	1470.00	10.00	8.64	0.00	66.60	4	0	29	259	1,255	-1,049
14+80	1480.00	10.00	8.19	0.00	50.32	3	0	22	262	1,283	-1,074
14+90	1490.00	10.00	7.90	0.00	45.83	3	0	18	265	1,305	-1,093
15+00	1500.00	10.00	7.76	0.00	40.01	3	0	16	268	1,325	-1,110
15+10	1510.00	10.00	1.38	0.00	23.96	2	0	12	270	1,340	-1,123
15+20	1520.00	10.00	0.24	0.00	5.16	0	0	5	270	1,346	-1,129
15+26	1526.00	6.00	0.00	0.00	0.00	0	0	1	270	1,348	-1,131

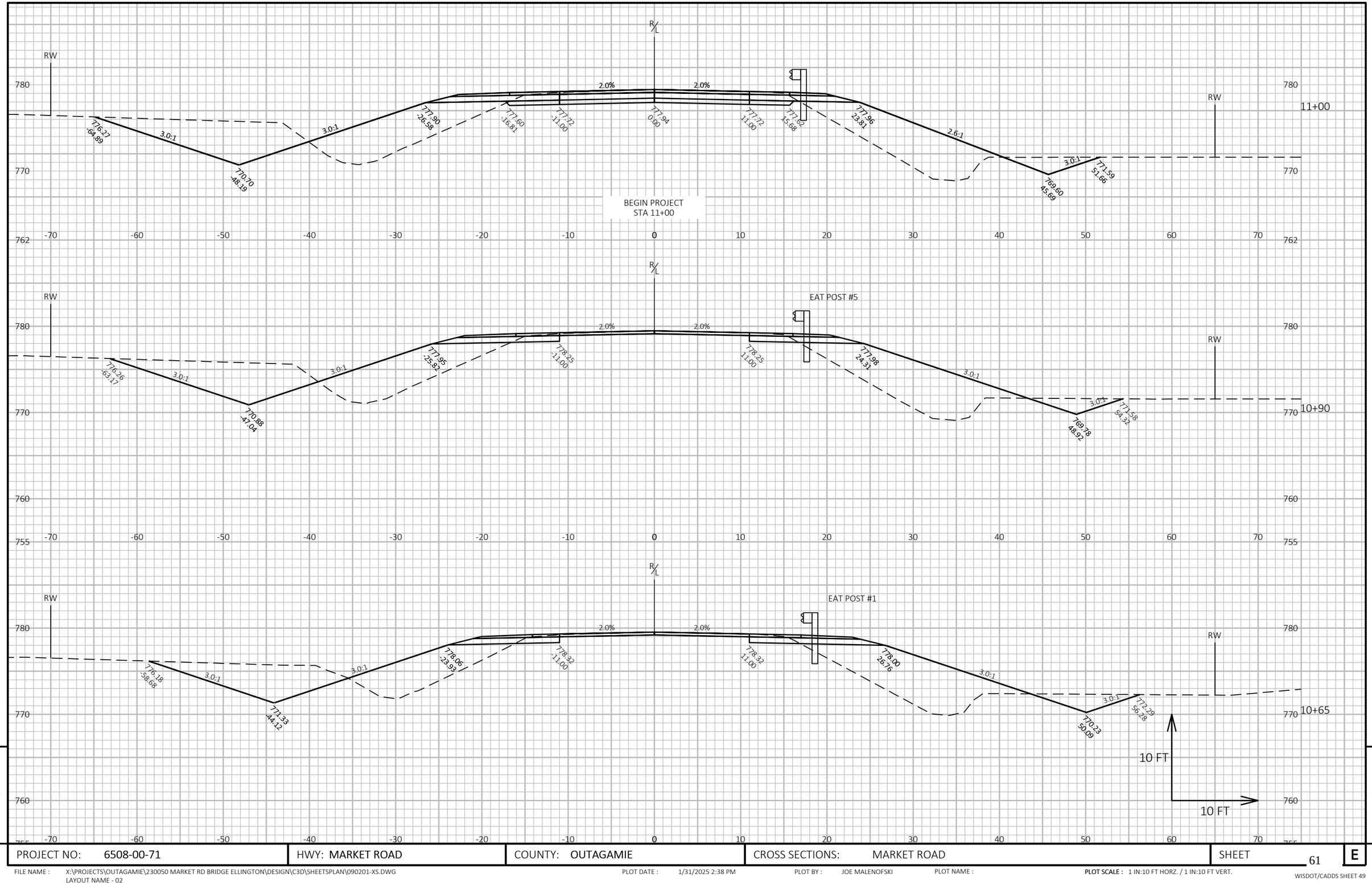


PROJECT NO: 6508-00-71	HWY: MARKET ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: MARKET ROAD	SHEET 60	E

FILE NAME : X:\PROJECTS\OUTAGAMIE\230050 MARKET RD BRIDGE ELLINGTON\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01

PLOT DATE : 1/31/2025 2:38 PM PLOT BY : JOE MALENOFSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

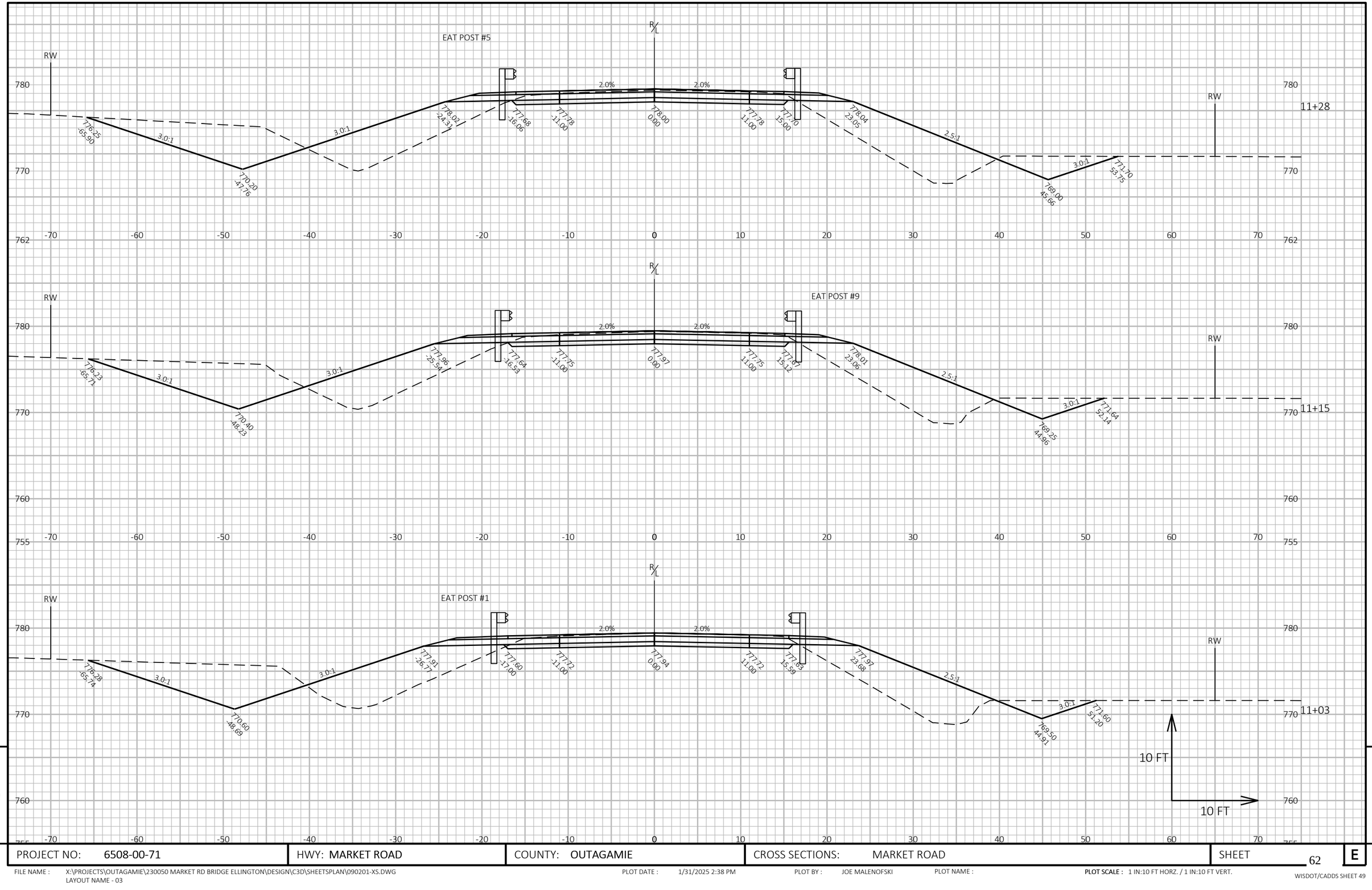
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PROJECT NO: 6508-00-71	HWY: MARKET ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: MARKET ROAD	SHEET 61	E

FILE NAME : X:\PROJECTS\OUTAGAMIE\230050 MARKET RD BRIDGE ELLINGTON\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 1/31/2025 2:38 PM PLOT BY : JOE MALENOFSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

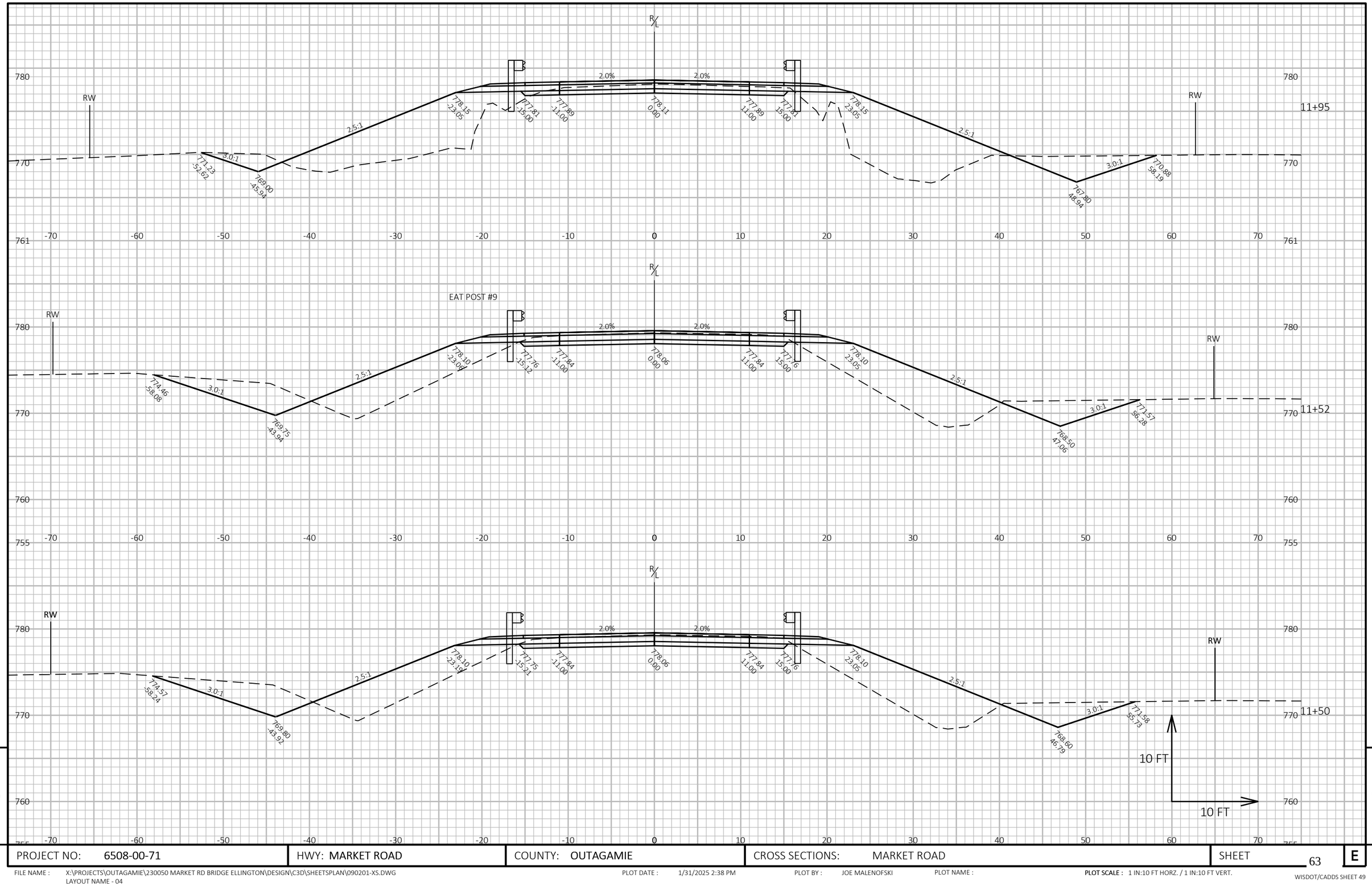


PROJECT NO: 6508-00-71	HWY: MARKET ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: MARKET ROAD	SHEET 62 E

FILE NAME : X:\PROJECTS\OUTAGAMIE\230050 MARKET RD BRIDGE ELLINGTON\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 03

PLOT DATE : 1/31/2025 2:38 PM PLOT BY : JOE MALENOFSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

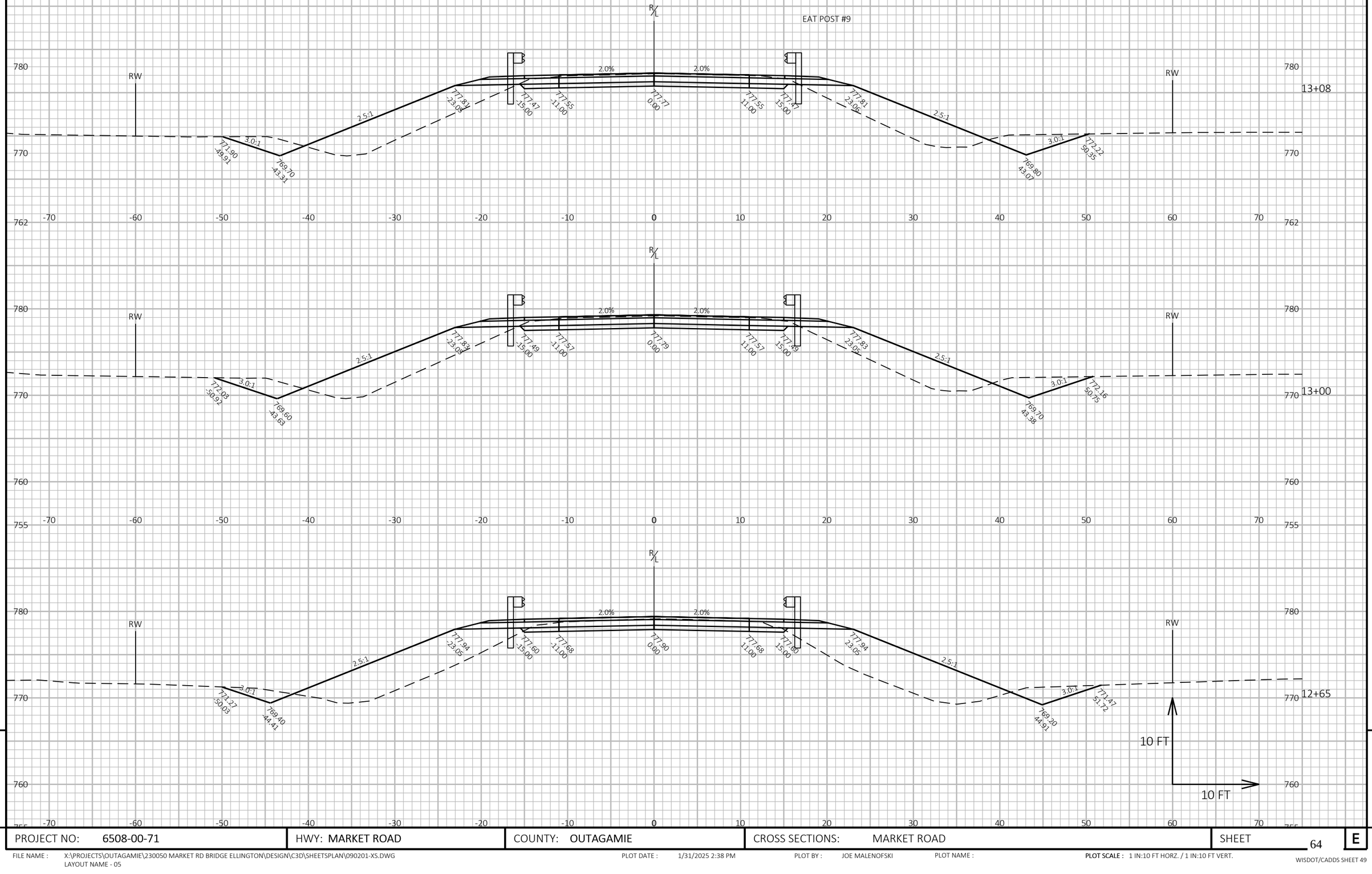
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PROJECT NO: 6508-00-71	HWY: MARKET ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: MARKET ROAD	SHEET 63	E

FILE NAME : X:\PROJECTS\OUTAGAMIE\230050 MARKET RD BRIDGE ELLINGTON\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 1/31/2025 2:38 PM PLOT BY : JOE MALENOFSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

EAT POST #9



9

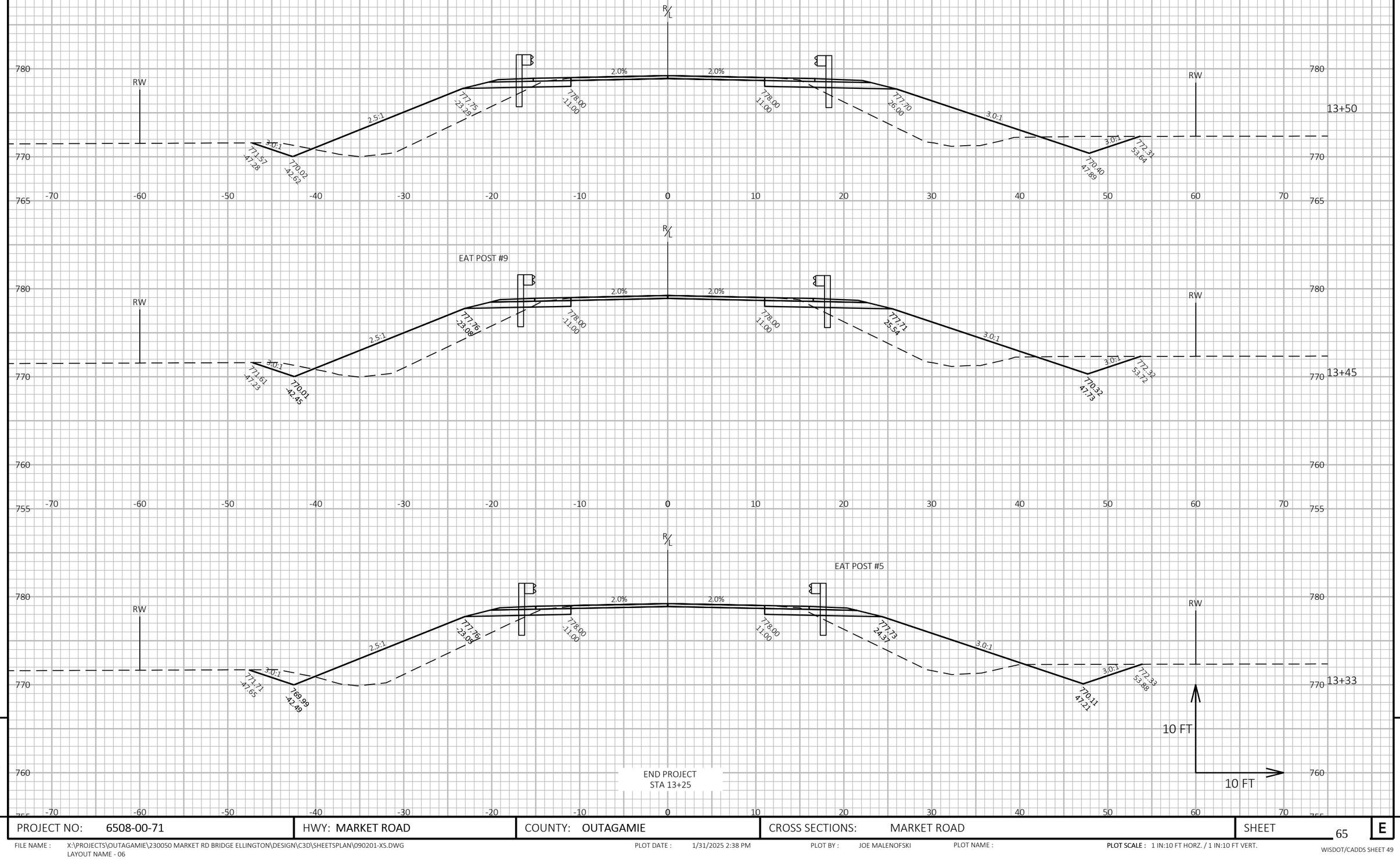
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PROJECT NO: 6508-00-71	HWY: MARKET ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: MARKET ROAD	SHEET 64	E

FILE NAME : X:\PROJECTS\OUTAGAMIE\230050 MARKET RD BRIDGE ELLINGTON\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 05

PLOT DATE : 1/31/2025 2:38 PM PLOT BY : JOE MALENOFSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

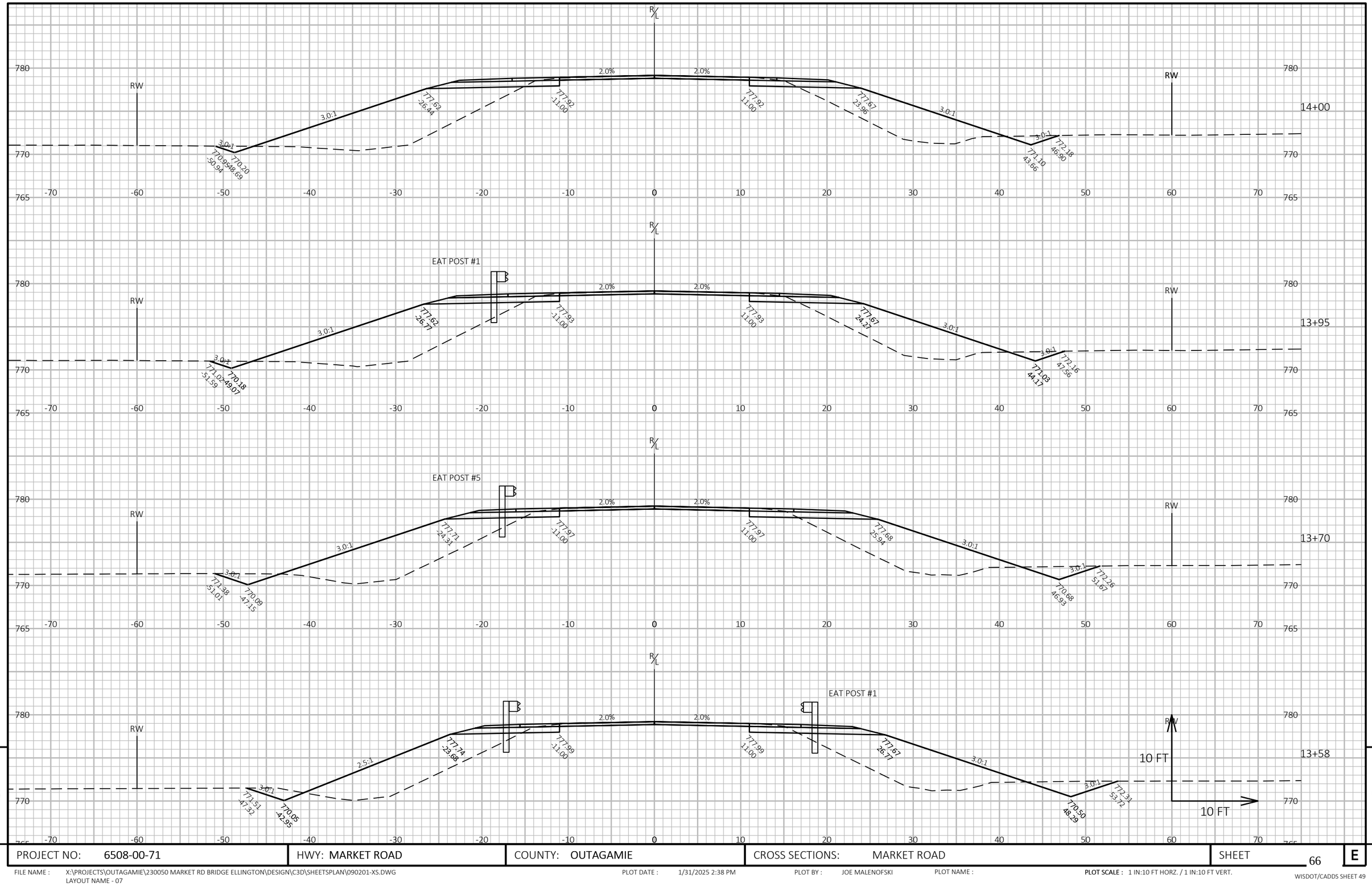
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PROJECT NO: 6508-00-71	HWY: MARKET ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: MARKET ROAD	SHEET 65	E

FILE NAME : X:\PROJECTS\OUTAGAMIE\230050 MARKET RD BRIDGE ELLINGTON\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 06

PLOT DATE : 1/31/2025 2:38 PM PLOT BY : JOE MALENOFSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6508-00-71	HWY: MARKET ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: MARKET ROAD	SHEET 66	E

FILE NAME : X:\PROJECTS\OUTAGAMIE\230050 MARKET RD BRIDGE ELLINGTON\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 07

PLOT DATE : 1/31/2025 2:38 PM

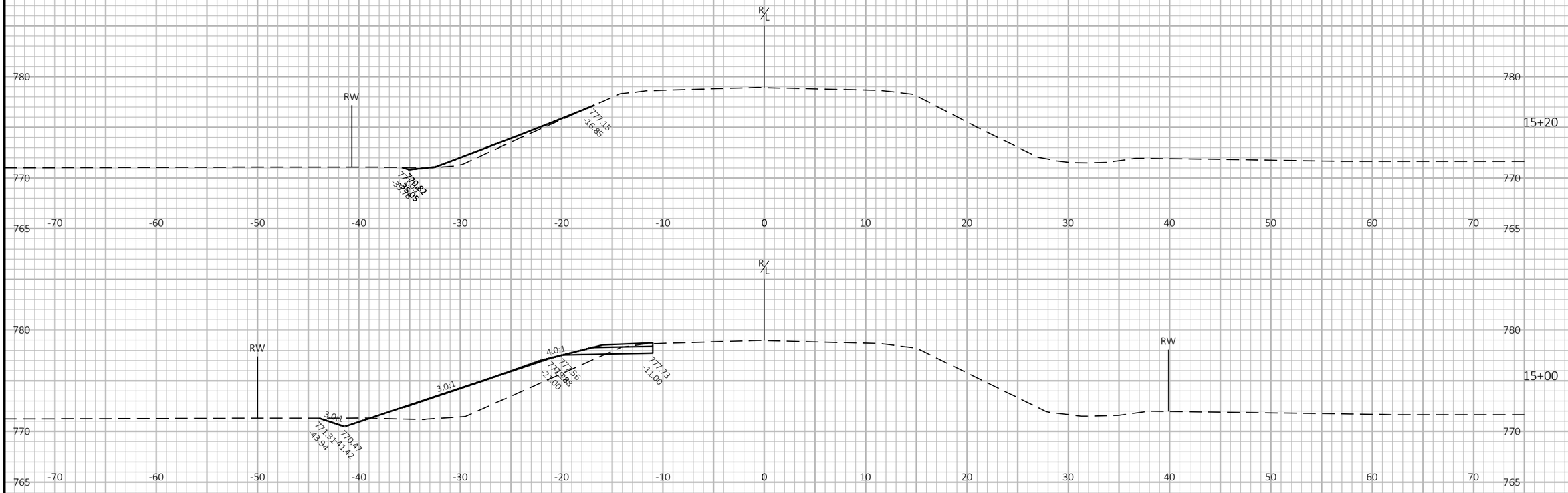
PLOT BY : JOE MALENOFSKI

PLOT NAME :

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

WISDOT/CADDS SHEET 49

END CONSTRUCTION
STA 15+26



PROJECT NO: 6508-00-71	HWY: MARKET ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: MARKET ROAD	SHEET 67	E

FILE NAME : X:\PROJECTS\OUTAGAMIE\230050 MARKET RD BRIDGE ELLINGTON\DESIGN\C3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 08

PLOT DATE : 1/31/2025 2:39 PM PLOT BY : JOE MALENOFSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

GRE

PROJECT ID: 6508-01-71

WITH: 6508-00-71

COUNTY: OUTAGAMIE COUNTY

MAY 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 = 178



26

N

DESIGN DESIGNATION 6508-01-01

A.A.D.T.	2024	=	930
A.A.D.T.	2045	=	990
D.H.V.		=	90
D.D.		=	50-50
T.		=	12.1%
DESIGN SPEED		=	45 MPH
ESALS		=	220,000

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

T ELLINGTON, GRANDVIEW RD

NORTH RD TO IMMEL RD

LOCAL STREET

OUTAGAMIE COUNTY

STATE PROJECT NUMBER
6508-01-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6508-01-71	WISC 2025478	1

BEGIN PROJECT
STA. 10+45.00
Y = 592580.43
X = 782841.25

END PROJECT
STA. 62+56.89
Y = 592532.41
X = 788052.84



LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 1.0 miles

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), {NAME} COUNTY, NAD83 {YEAR}, 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 {YEAR}. GPS DERIVED ELEVATIONS ARE BASED ON GEOID XX.

ACCEPTED FOR
TOWN OF ELLINGTON

Date 1-16-25 Jae Schumacher
(Signature and Title of Official)

ORIGINAL PLANS PREPARED BY
MCMAHON ASSOCIATES, INC.
McMAHON ENGINEERS ARCHITECTS

WISCONSIN MICHAEL R. SIMON E-25860 APPLETON WIS PROFESSIONAL ENGINEER
1-15-2025

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MCMAHON
Designer	MCMAHON
Project Manager	MIKE COHEN, P.E.
Regional Examiner	-
Regional Supervisor	KIMBERLY SLEZAK

APPROVED FOR THE DEPARTMENT

DATE: 1/31/2025 Mike Cohen P.E.
(Signature)

E

STANDARD ABBREVIATIONS

ABUT	ABUTMENT
AC	ACRE
AGG	AGGREGATE
AH	AHEAD
∠	ANGLE
AADT	ANNUAL AVERAGE DAILY TRAFFIC
AEW	APRON ENDWALL
ASPH	ASPHALTIC
BK	BACK
BC	BACK OF CURB
BAD	BASE AGGREGATE DENSE
BL OR B/L	BASE LINE
BM	BENCH MARK
BP	BEGINNING OF PROJECT
CB	CATCH BASIN
CL OR C/L	CENTER LINE
Δ	CENTRAL ANGLE OR DELTA
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
CSW	CONCRETE SIDEWALK
CONST	CONSTRUCTION
CP	CONTROL POINT
CO	COUNTY
CTH	COUNTY TRUCK HIGHWAY
CY	CUBIC YARD
CP	CULVERT PIPE
CPCA	CULVERT PIPE CORRUGATED ALUMINUM
CPCPE	CULVERT PIPE CORRUGATED POLYETHYLENE
CPCPP	CULVERT PIPE CORRUGATED POLYPROPYLENE
CPCS	CULVERT PIPE CORRUGATED STEEL
CPCSAC	CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED
CPCSPC	CULVERT PIPE CORRUGATED STEEL POLYMER COATED
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CPS	CULVERT PIPE SALVAGED
CPT	CULVERT PIPE TEMPORARY
C & G	CURB AND GUTTER
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DD	DIRECTIONAL DISTRIBUTION
DE	DRAINAGE EASEMENT
DWY	DRIVEWAY
EA	EACH
EB	EASTBOUND
EL OR ELEV	ELEVATION
EMB	EMBANKMENT
EP	END OF PROJECT
EW	ENDWALL
EAT	ENERGY ABSORBING TERMINAL
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC	EXCAVATION
EBS	EXCAVATION BELOW SUBGRADE
EXIST	EXISTING
FERT	FERTILIZER
FE	FIELD ENTRANCE
FL OR F/L	FLOW LINE
FT	FOOT
FTMS	FREE TRAFFIC MANAGEMENT SYSTEM
HES	HIGH EARLY STRENGTH
HE	HIGHWAY EASEMENT
CWT	HUNDRED WEIGHT
IN DIA	INCH DIAMETER
INL	INLET
ID	INSIDE DIAMETER
INTERS	INTERSECTION
IH	INTERSTATE HIGHWAY
INV	INVERT
JT	JOINT
LT	LEFT
LHF	LEFT HAND FORWARD
L	LENGTH OF CURVE
LF	LINEAR FOOT
LC	LONG CHORD OF CURVE
LS	LUMP SUM
MGAL	ONE THOUSAND GALLONS
MH	MANHOLE
ML OR M/L	MATCH LINE
NOM	NOMINAL
NC	NORMAL CROWN
NB	NORTHBOUND
NO	NUMBER
OD	OUTSIDE DIAMETER
PAVT	PAVEMENT
PLE	PERMANENT LIMITED EASEMENT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PCC	PORTLAND CEMENT CONCRETE
LB	POUND
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PSI	POUNDS PER SQUARE INCH
PE	PRIVATE ENTRANCE
PROJ	PROJECT
PL	PROPERTY LINE
PRW	PROPOSED RIGHT OF WAY
R	RADIUS
RL OR R/L	REFERENCE LINE
REQD	REQUIRED
RT	RIGHT
RHF	RIGHT HAND FORWARD
R/W	RIGHT OF WAY
RD	ROAD
RDWY	ROADWAY
SHLDR	SHOULDER
SW	SIDEWALK
SB	SOUTHBOUND
SPECS	SPECIFICATIONS
SF	SQUARE FEET
SY	SQUARE YARD
SDD	STANDARD DETAIL DRAWINGS
STH	STATE TRUNK HIGHWAY
STA	STATION
SSPC	STORM SEWER PIPE COMPOSITE
SSCPE	STORM SEWER PIPE CORRUGATED POLYETHYLENE
SSCPP	STORM SEWER PIPE CORRUGATED POLYPROPYLENE
SSPNRC	STORM SEWER PIPE NON-REINFORCED CONCRETE
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
SE	SUPERELEVATION
SL OR S/L	SURVEY LINE
TEMP	TEMPORARY
TI	TEMPORARY INTEREST
TLE	TEMPORARY LIMITED EASEMENT
TC	TOP OF CURB
TL OR T/L	TRANSIT LINE
T	TRUCKS (PERCENT OF)
TYP	TYPICAL
USH	UNITED STATES HIGHWAY
VAR	VARIABLE
VC	VERTICAL CURVE
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WEST
WB	WESTBOUND

GENERAL NOTES

THE CONTRACTORS PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, PASSING, OR TURNING LANE.

EROSION CONTROL DEVICES ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER REQUIRED.

THE LOCATIONS OF EXISTING UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE AND ARE BASED ON UTILITY LOCATES OBTAINED FROM THE UTILITIES WHEN THE SURVEY DATA WAS COLLECTED PRIOR TO THE FINAL DESIGN OF THE PROJECT. IT IS ANTICIPATED THAT UTILITY FACILITIES WILL BE RELOCATED AS PART OF THIS PROJECT AS DESCRIBED IN THE SPECIAL PROVISIONS. PROPOSED RELOCATED UTILITIES ARE NOT SHOWN ON THE PLAN SHEETS. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT LIMITS THAT ARE NOT SHOWN ON THE PLAN SHEETS. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK.

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

THE LOCATION OF ALL EROSION CONTROL ITEMS IS APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER IN THE FIELD.

ALL RADII SHOWN ON THE PLAN SHEETS ARE TO THE FACE OF CURB.

THE ELEVATIONS SHOWN ON THE ROADWAY CROSS SECTIONS ARE SUBGRADE CL, SUBGRADE EDGE OF TRAVEL LANE, SUBGRADE SHOULDER POINT, DITCH FLOWLINE, AND SLOPE INTERCEPT.

THE EXACT LIMITS OF CONCRETE, ASPHALT, OR GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (EBS) AREAS ARE CALLED OUT AS UNDISTRIBUTED ON THE PLAN QUANTITIES FOR COMMON EXCAVATION. THESE AREAS ARE TO BE BACKFILLED WITH BASE AGGREGATE DENSE 3-INCH EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER.

PIPE ELEVATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

THE REMOVAL OF CONCRETE DRIVEWAYS WILL BE MEASURED AND PAID FOR AS REMOVING CONCRETE PAVEMENT. THE REMOVAL OF ASPHALTIC DRIVEWAYS WILL BE PAID FOR AS COMMON EXCAVATION.

EXACT LOCATIONS AND WIDTHS OF DRIVEWAYS AND PRIVATE FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ASPHALT DRIVEWAYS SHALL CONSIST OF 2 1/2 INCHES ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, INSTALLED IN ONE LAYER. OVER 12-INCHES BASE AGGREGATE DENSE 1 1/4 INCH.

CONCRETE DRIVEWAYS SHALL CONSIST OF CONCRETE DRIVEWAY 6-INCH OVER 6" OF BASE AGGREGATE DENSE 1 1/4-INCH.

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

FILL AS SHOWN ON THE PLAN PERTAINS TO EMBANKMENT CONSTRUCTED FROM COMMON EXCAVATION AND BORROW. THE FACTOR USED FOR EXPANDING THE FILLS TO COMPLETE THE VOLUME OF MATERIAL REQUIRED IS 25%.

REMOVE ANY REINFORCEMENT AND MESH FOUND IN THE EXISTING CONCRETE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE ITEM OF REMOVING CONCRETE PAVEMENT.

THE LIMITS OF PAVEMENT REMOVAL ON SIDE STREETS AND MATCH POINTS IS APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER.

KEEP ALL EQUIPMENT AND MATERIALS OUT OF ADJACENT WETLANDS AND WATERWAYS.

VERTICAL DATUM

ELEVATIONS ARE REFERENCED TO NGS DATA:
CONTROL POINT NAME: 4W51
POINT ID: DE7465 NAVD 88 DATUM
BY GPS OBSERVATION TO ELEVATION = 800.29 (2007 ADJUSTMENT)
LEVEL LOOP PER FIELD BOOK 1382 PAGE 54 AND BOOK 1177 PAGES 69-76

HORIZONTAL DATUM

COORDINATES ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM AS PUBLISHED FOR OUTAGAMIE COUNT NAD 83 (1991)

2

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UTILITIES CONTACTS

AT&T WISCONSIN
COMMUNICATION LINE
KYLE WEBER
221 WEST WASHINGTON STREET
APPLETON, WI 54911
PHONE: OFFICE: (920) 221-5969
EMAIL: KW715W@ATT.COM

CHARTER
COMMUNICATION LINE
JODY THIEL
3545 E. PLANK ROAD
APPLETON, WI 54915
PHONE: OFFICE: (920) 831-9258
EMAIL: JODYTHIEL@CHARTER.COM

WE ENERGIES
ELECTRIC
REIJO MURTO
800 SOUTH LYNNDALE DRIVE
APPLETON, WI 54912
PHONE: MOBILE: (920) 858-6254
PHONE: OFFICE: (920) 380-3369
EMAIL: REIJO.MURTO@WE-ENERGIES.COM

WE ENERGIES
GAS/ PETROLEUM
CODY BECKMAN
800 SOUTH LYNNDALE DRIVE
APPLETON, WI 54912
PHONE: MOBILE: (920) 428-1038
PHONE: OFFICE: (920) 380-3422
EMAIL: CODY.BECKMAN@WE-ENERGIES.COM

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL
STORM SEWER
PAVEMENT MARKING AND SIGNING
TRAFFIC CONTROL

WISCONSIN DNR LIAISON

MATT SCHAEVE
NORTHEAST REGION
2984 SHAWANO AVE
GREEN BAY, WI 54313
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EMAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV

TOWN OF ELLINGTON

JOE SCHUMACHER
TOWN CHAIRMAN
N3802 HWY 76
HORTONVILLE, WI 54944
PHONE:
EMAIL: TOWNOFELLINGTON@GMAIL.COM

COUNTY HIGHWAY COMMISSIONER

DEAN STEINGRABER, P.E.
OUTAGAMIE COUNTY
1313 HOLLAND ROAD
APPLETON, WI 54911-8947
PHONE: (920) 832-5673
EMAIL: DEAN.STEINGRABER@OUTAGAMIE.ORG

NE REGION CONTRACT

MIKE COHEN, P.E.
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944 VANDERPERREN WAY
GREEN BAY, WI 54304
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EMAIL: MICHAEL.COHEN@DOT.WI.GOV

DESIGN CONSULTANT

MIKE SIMON, P.E.
MCMAHON ASSOCIATES
1445 MCMAHON DRIVE
NEENAH, WI 54956
PHONE: (920) 751-4200
EMAIL: MSIMON@MCMGRP.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 STRIPTURF:	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPETURF:			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT:	.70 - .95											
CONCRETE:	.80 - .95											
BRICK:	.70 - .80											
DRIVES, WALKS:	.75 - .85											
ROOFS:	.75 - .95											
GRAVEL ROADS, SHOULDERS:	.40 - .60											

TOTAL PROJECT AREA = 13.40 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 11.69 ACRES

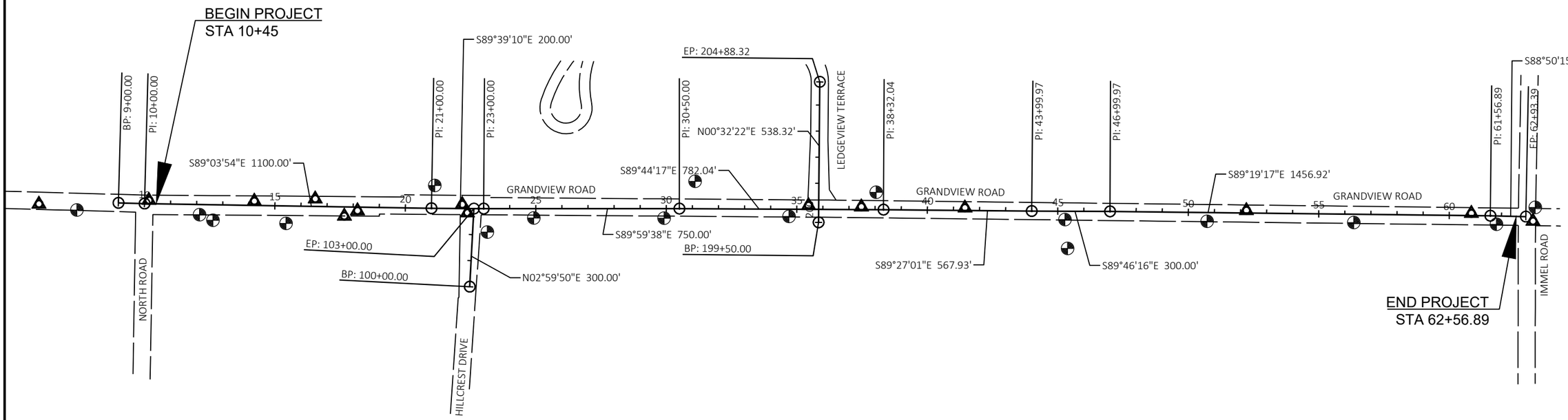
DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

2

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CONTROL POINTS				
STA.	LOCATION	DESCRIPTION	NORTHING	EASTING
5+95.76	12.53' RT	MAG NAIL	592579.775	782391.832
10+16.42	13.13' LT	MAG NAIL	592594.018	782812.896
14+20.43	16.46' LT	MAG NAIL	592590.755	783216.904
16+53.83	28.87' LT	MAG NAIL	592599.354	783450.473
17+66.59	34.98' RT	MAG NAIL	592533.671	783562.181
18+16.29	13.44' RT	MAG NAIL	592554.403	783612.219
22+17.65	15.52' LT	MAG NAIL	592578.009	784013.855
22+37.64	16.30' RT	MAG NAIL	592546.077	784033.655
35+44.59	14.44' LT	MAG NAIL	592574.094	785340.756
37+47.08	10.41' LT	MAG NAIL	592569.140	785543.227
41+43.98	9.77' LT	MAG NAIL	592565.113	785940.156
52+22.23	9.61' LT	MAG NAIL	592555.118	787018.382
60+84.38	8.89' LT	MAG NAIL	592544.189	787880.459
63+20.76	16.83' RT	MAG NAIL	592514.283	788116.359

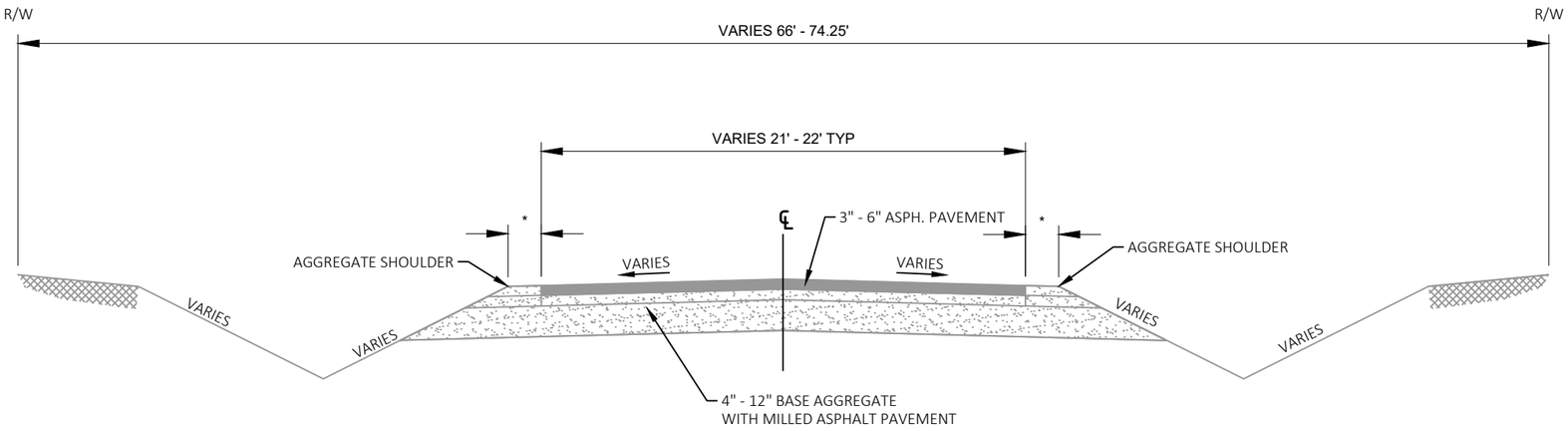
BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
7+41	31.3' RT	NAIL PP 02-10428	912.39
12+12	38.7' RT	NAIL PP 74-4372	931.55
12+63	59.4' RT	MAG IN TREE	935.16
15+44	66.9' RT	MAG IN TREE	956.81
21+12	87.6' LT	TOP WELL #7610	1006.760
23+14	89.9' RT	TOP WELL #2892	1006.270
24+92	35.7' RT	NAIL PP 74-4368	984.230
29+91	36.6' RT	NAIL PP 74-4331	940.370
31+09	105.3' LT	SW TOP PORCH	937.600
34+70	28.1' RT	NAIL PP 19-06282	923.200
38+04	66.7' LT	MAG IN TREE	915.580
45+28	32.5' RT	NAIL PP 61-3865	904.430
45+37	142.7' RT	TOP WELL #7425	909.490
50+72	33.7' RT	NAIL PP 61-3862	893.090
56+34	31.7' RT	NAIL PP 18-11198	888.730
61+81	32.1' RT	NAIL PP 85-21416	887.990
63+29	34.4' LT	SW TOP STOOP	890.150



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PROJECT OVERVIEW AND ALIGNMENT	SHEET 4	E

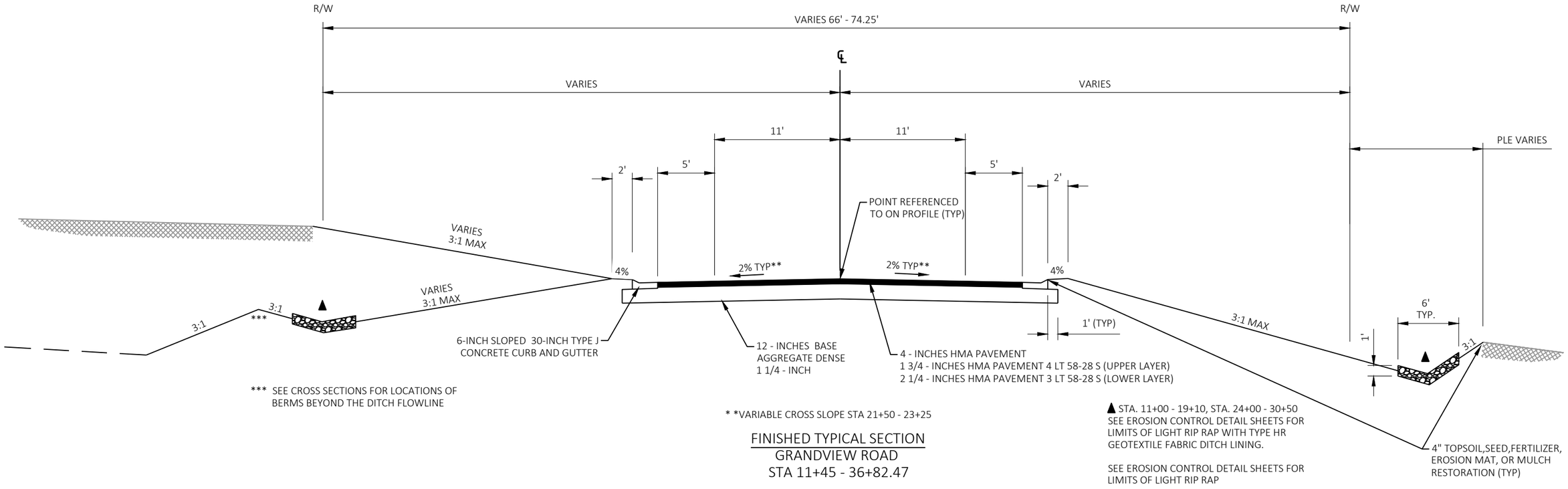
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LAYOUT NAME - 01
PLOT DATE : 3/26/2025 2:43 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:400 FT
WISDOT/CADDS SHEET 42

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grandview Project Overview.dwg, 3/26/2025 2:43:41 PM, JJelinski, 1:1



* SHOULDER WIDTH
VARIES 1' - 2' TYP

EXISTING TYPICAL SECTION
GRANDVIEW ROAD
STA 10+45.00 - 62+56.89



*** SEE CROSS SECTIONS FOR LOCATIONS OF BERMS BEYOND THE DITCH FLOWLINE

* *VARIABLE CROSS SLOPE STA 21+50 - 23+25

▲ STA. 11+00 - 19+10, STA. 24+00 - 30+50
SEE EROSION CONTROL DETAIL SHEETS FOR LIMITS OF LIGHT RIP RAP WITH TYPE HR GEOTEXTILE FABRIC DITCH LINING.

SEE EROSION CONTROL DETAIL SHEETS FOR LIMITS OF LIGHT RIP RAP

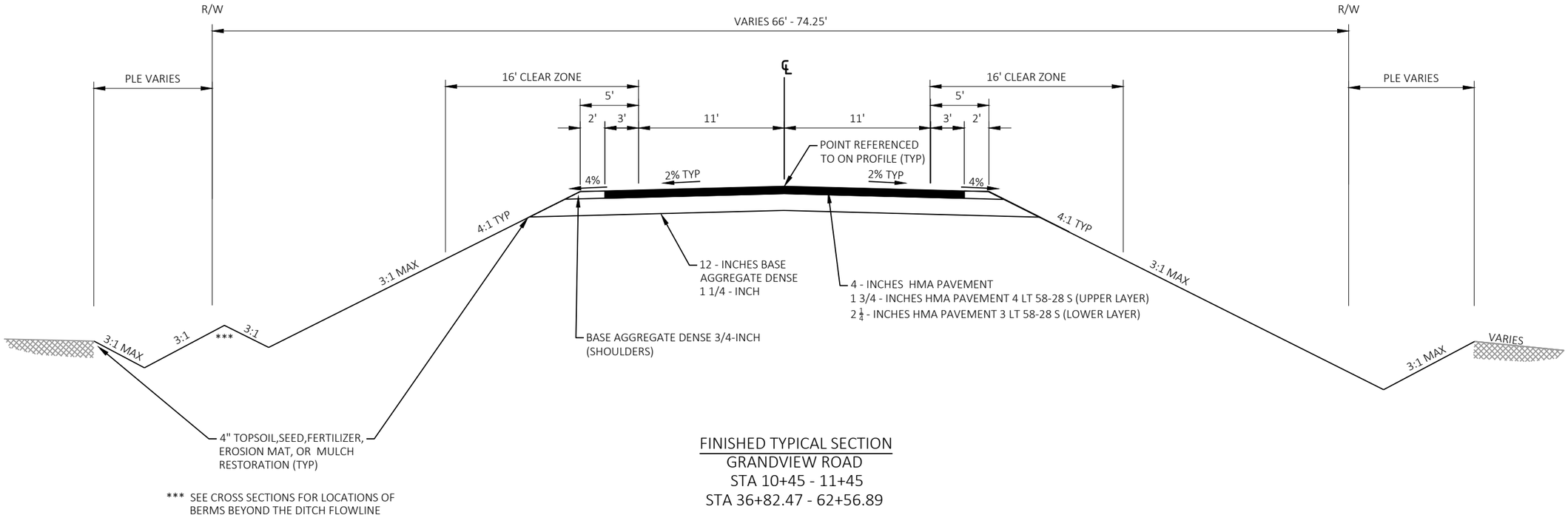
FINISHED TYPICAL SECTION
GRANDVIEW ROAD
STA 11+45 - 36+82.47

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	TYPICAL SECTIONS	SHEET 5	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\GRANDVIEW ROAD TYPICALS.DWG
LAYOUT NAME - 1
PLOT DATE : 3/26/2025 2:43 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1:10
WISDOT/CADDS SHEET 42

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\Grandview Road Typicals.dwg, 3/26/2025 2:43:46 PM, JJelinski, 1:1

2



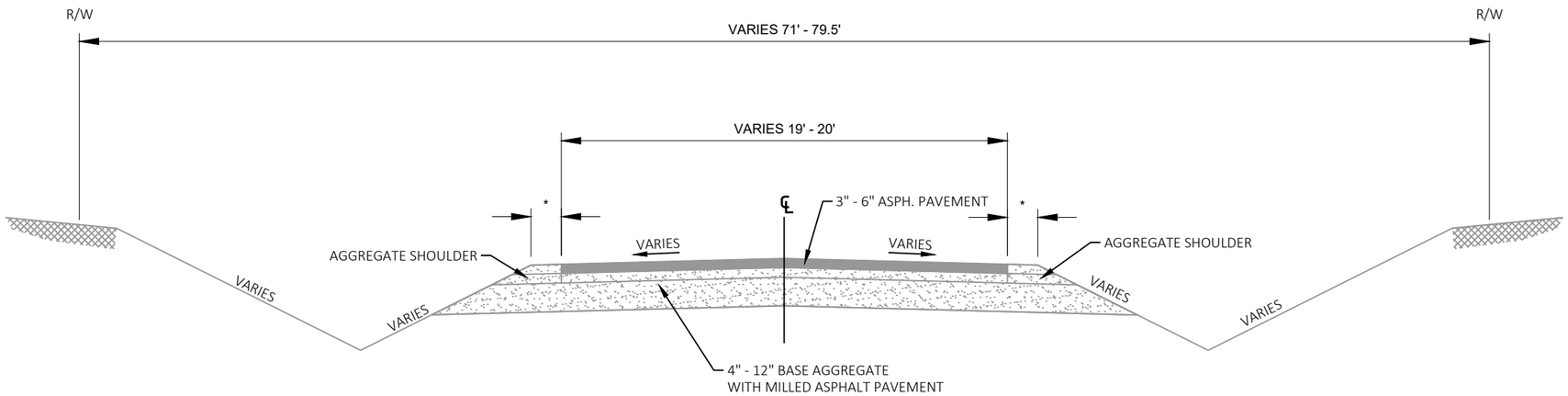
*** SEE CROSS SECTIONS FOR LOCATIONS OF BERMS BEYOND THE DITCH FLOWLINE

FINISHED TYPICAL SECTION
GRANDVIEW ROAD
STA 10+45 - 11+45
STA 36+82.47 - 62+56.89

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	TYPICAL SECTIONS	SHEET 6	E

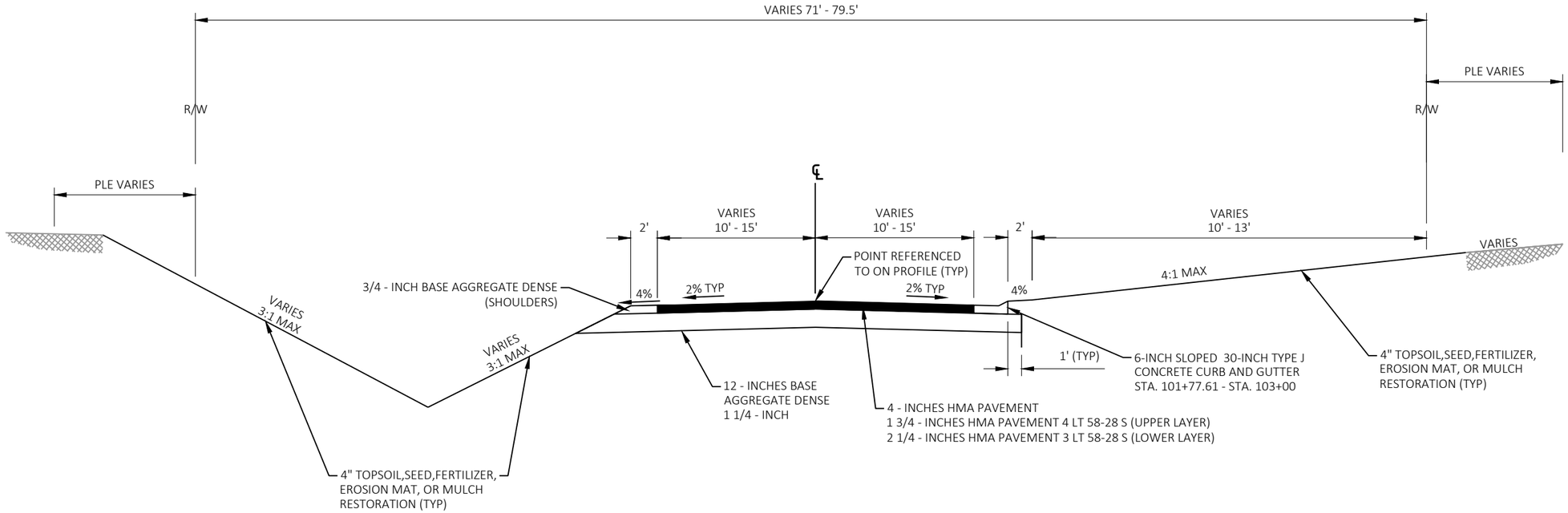
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LAYOUT NAME - 2
PLOT DATE : 3/26/2025 2:43 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1:10

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\Grandview Road Typicals.dwg, 3/26/2025 2:43:46 PM, JJelinski, 1:1



* SHOULDER WIDTH
VARIES 2' - 5' TYP

EXISTING TYPICAL SECTION
HILLCREST DRIVE
STA 101+04 - 103+00

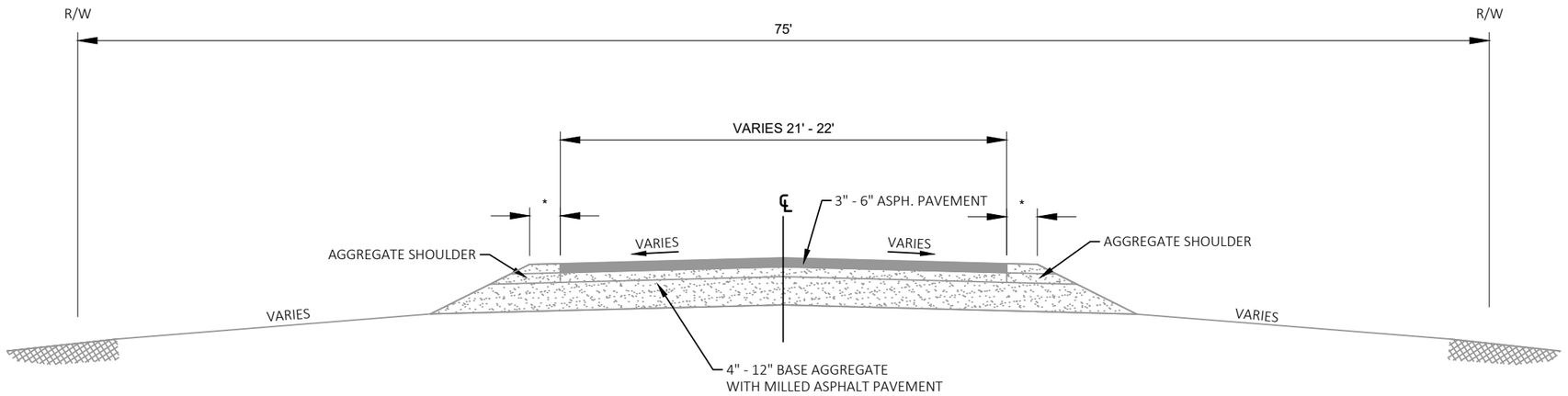


FINISHED TYPICAL SECTION
HILLCREST DRIVE
STA 101+04 - 103+00

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	TYPICAL SECTIONS	SHEET 7	E

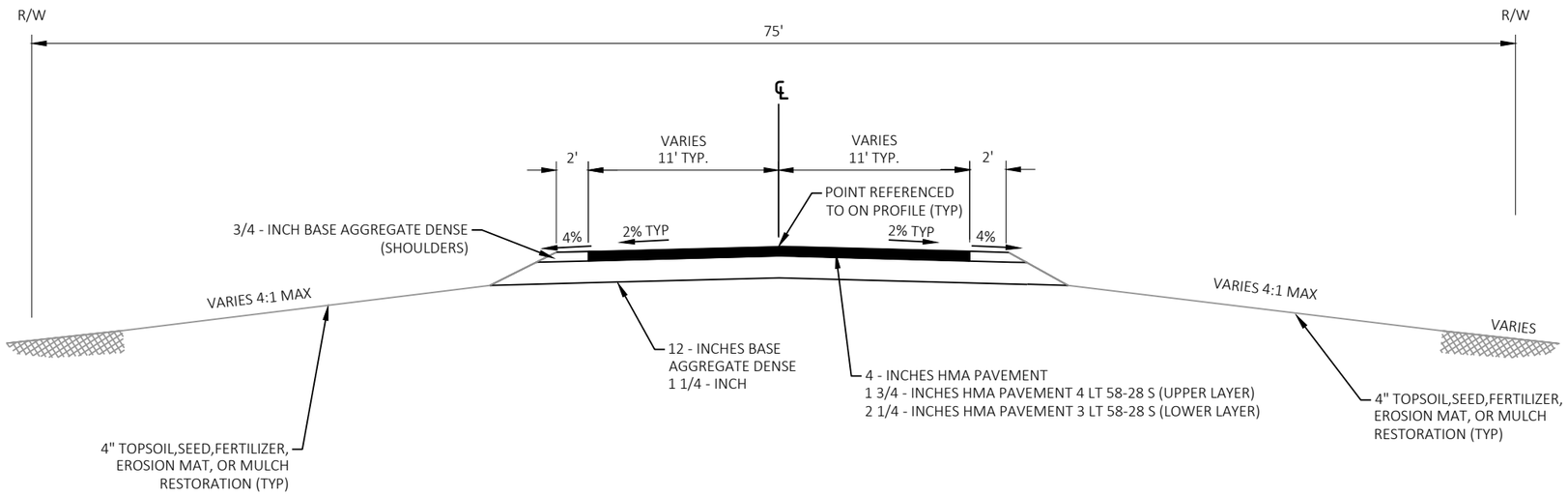
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LAYOUT NAME - 3
PLOT DATE : 3/26/2025 2:43 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1:10
WISDOT/CADDS SHEET 42

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\Grandview Road Typicals.dwg, 3/26/2025 2:43:46 PM, JJelinski, 1:1



* SHOULDER WIDTH
VARIES 2' TYP

EXISTING TYPICAL SECTION
LEDGEVIEW TERRACE
STA 200+00 - 201+47.26

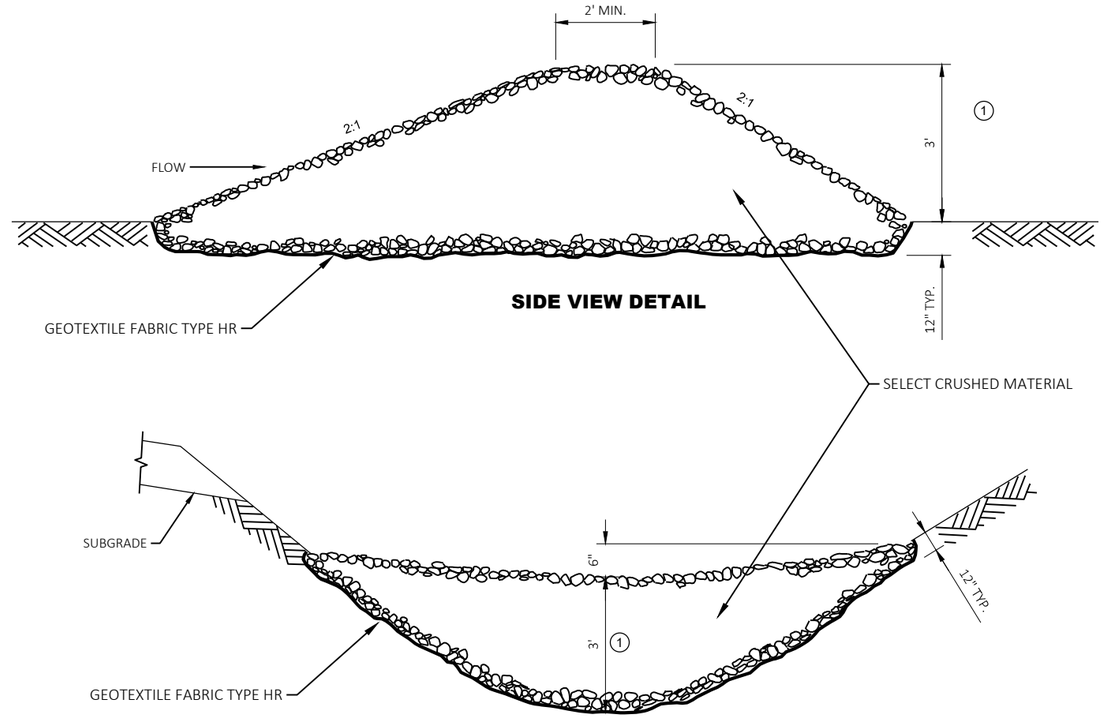


FINISHED TYPICAL SECTION
LEDGEVIEW TERRACE
STA 200+00 - 201+47.26

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	TYPICAL SECTIONS	SHEET 8	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\GRANDVIEW ROAD TYPICALS.DWG
LAYOUT NAME - 4
PLOT DATE : 3/26/2025 2:43 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : ####
WISDOT/CADDS SHEET 42

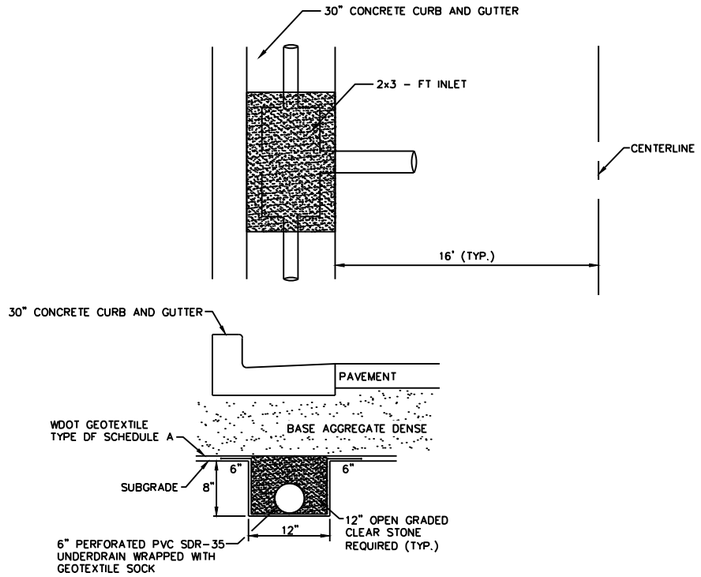
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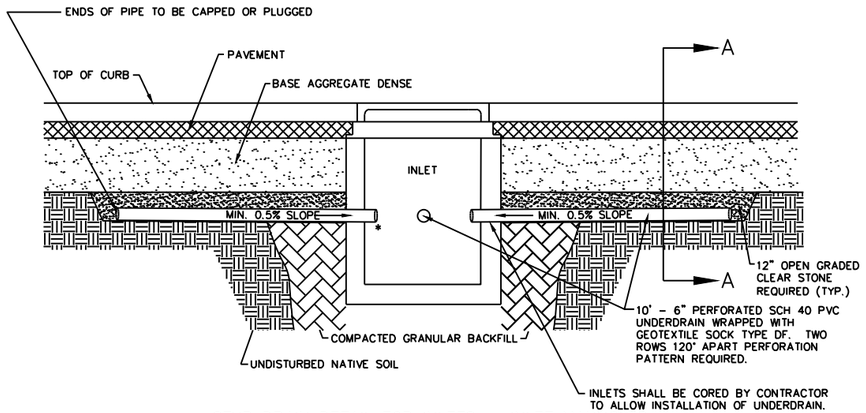
TEMPORARY STONE DITCH CHECK

(1) MEASURED AT THE CENTER OF THE DITCH CHECK.

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grandview Const Details.dwg, 3/26/2025 2:43:55 PM, JJelinski, 1:1



SECTION A-A



STUB DRAIN DETAIL FOR INLETS or INLET MANHOLES

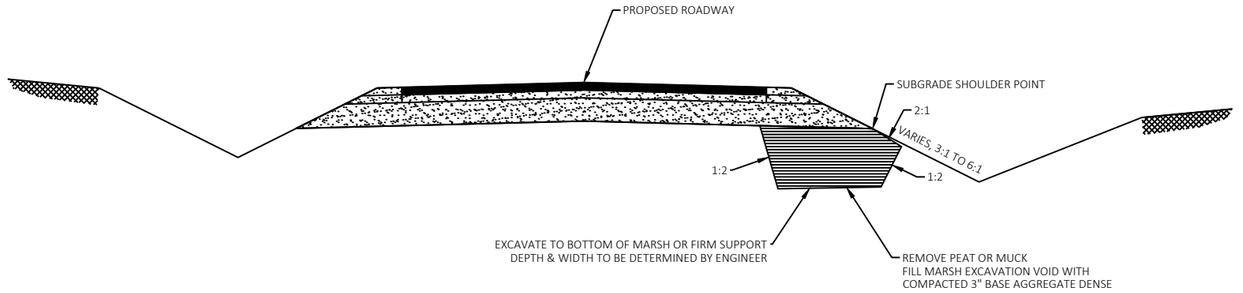
SEE PLAN & PROFILE SHEETS FOR
LOCATIONS OF STUB DRAINS AT INLETS

* STUB DRAIN ELEVATION SHALL BE 0.75'
ABOVE INLET LEAD FLOWLINE.

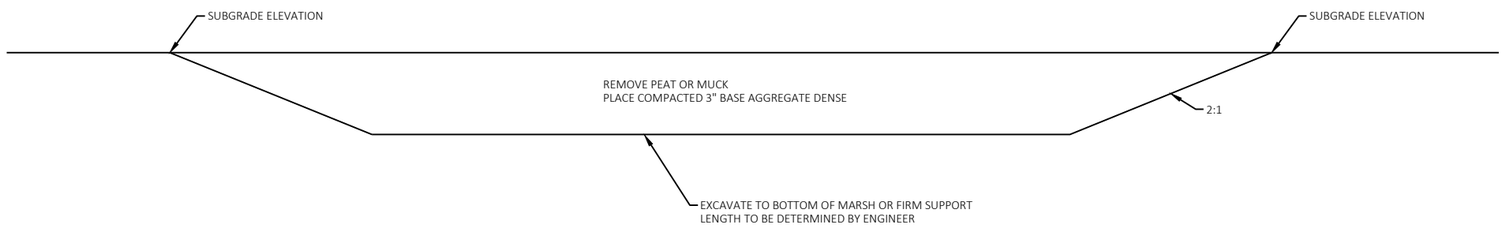
PVC UNDERDRAIN 6-INCH, INCLUDES
CORING HOLES IN STRUCTURES, FITTINGS
AND RUBBER GASKET CONNECTORS.

2

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grandview Const Details.dwg, 3/26/2025 2:43:55 PM, JJelinski, 1:1

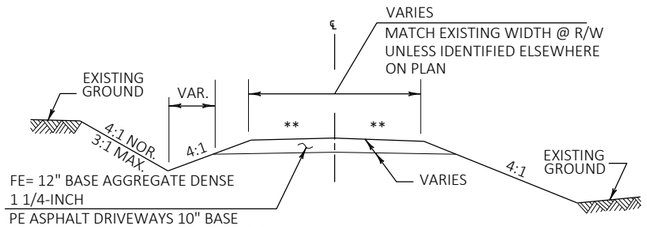


MARSH EXCAVATION SECTION VIEW

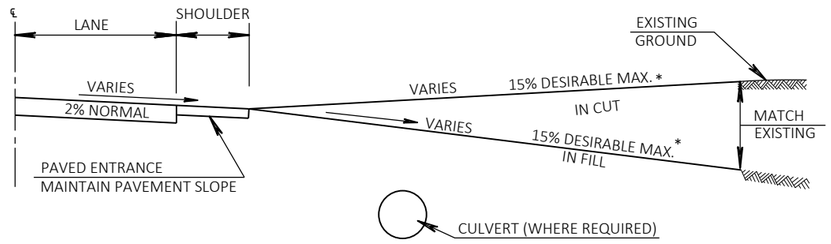


MARSH EXCAVATION SIDE VIEW

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grandview Const Details.dwg, 3/26/2025 2:43:55 PM, JJelinski, 1:1

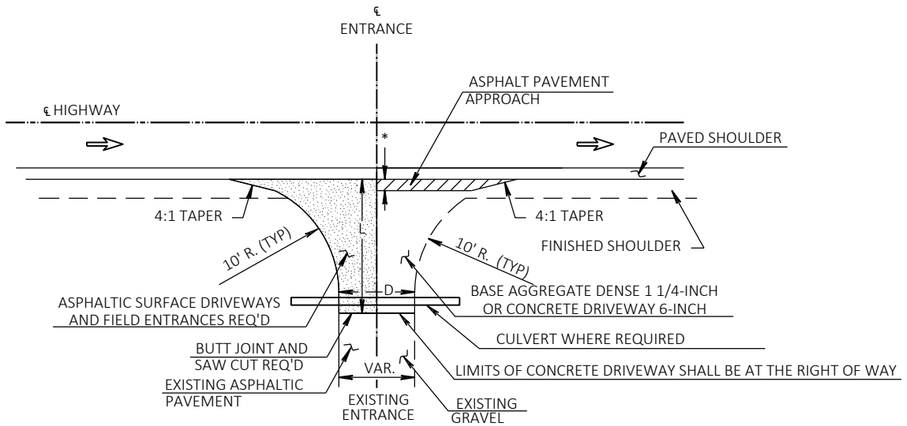


TYPICAL CROSS SECTION



*SEE CROSS SECTIONS
FOR DRIVEWAY PROFILE

PROFILE VIEW



L=VARIABLE, EXACT LENGTH TO BE DETERMINED
IN THE FIELD BY THE ENGINEER.

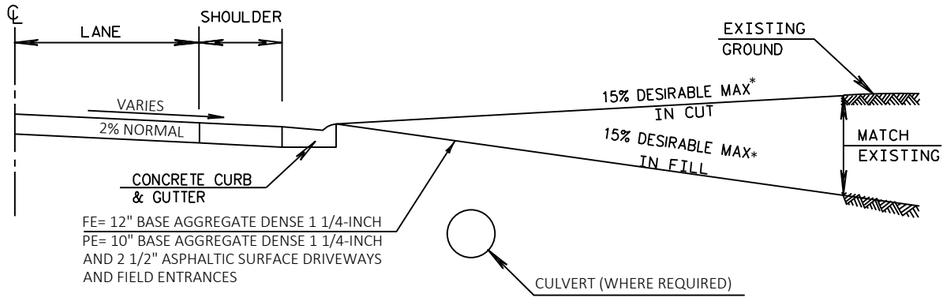
D= DRIVEWAY WIDTHS AS SHOWN ON THE PLAN SHEETS

* 3' MAX. OR TO FINISHED SHOULDER
WHICH EVER IS LESS.

PLAN VIEW

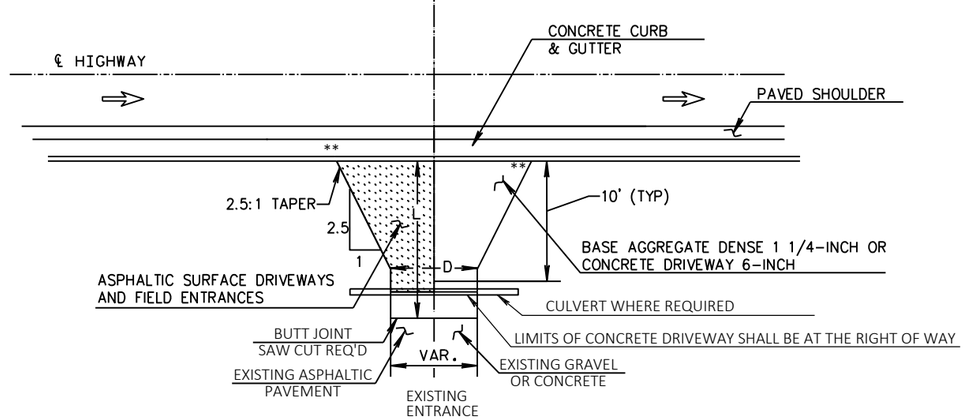
RURAL DRIVEWAY INTERSECTION DETAIL
(PE's & FE's)

TYPICAL CROSS SECTION



*SEE CROSS SECTIONS FOR DRIVEWAY PROFILE

PROFILE VIEW



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

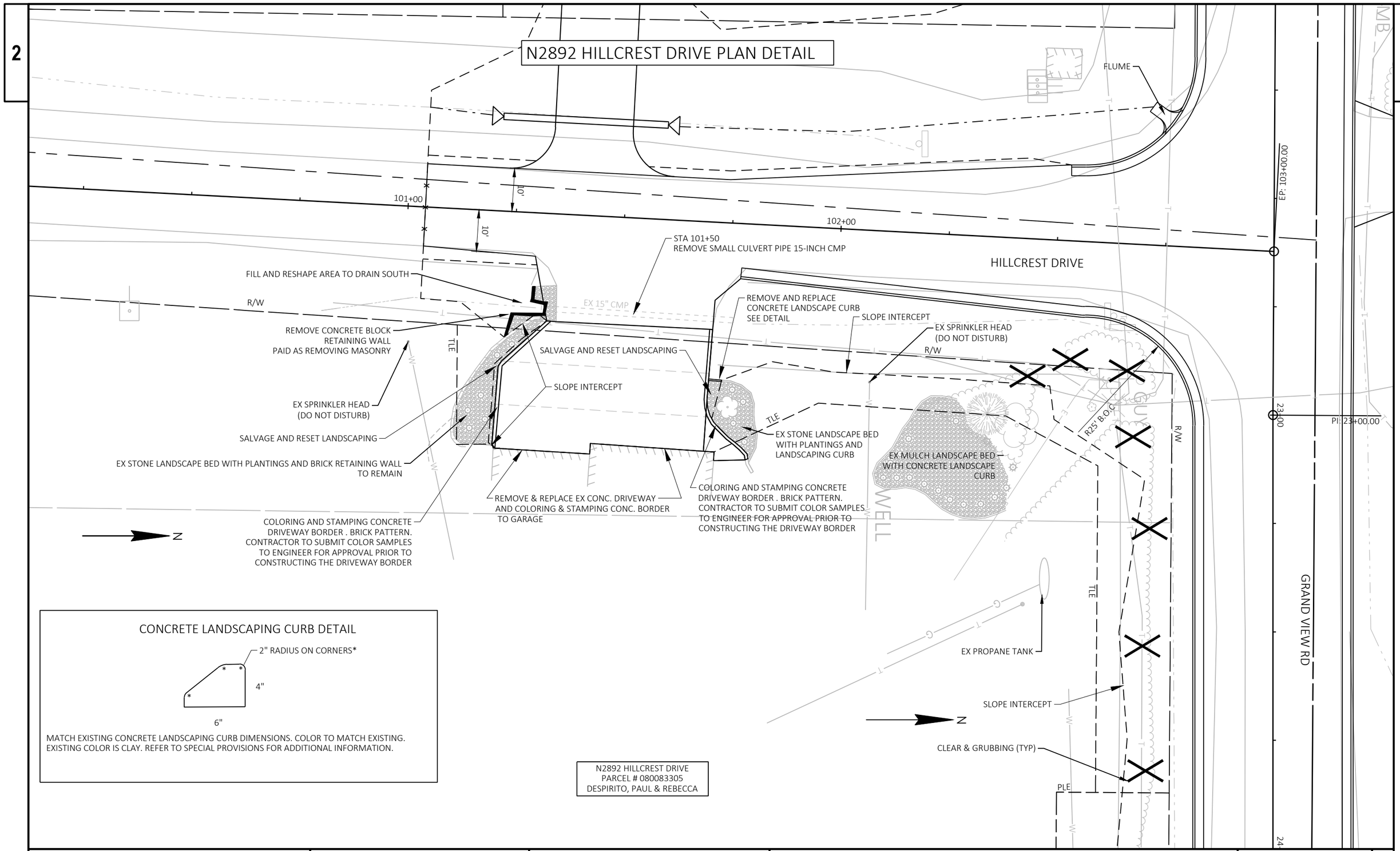
D= DRIVEWAY WIDTHS AS SHOWN ON THE PLAN SHEETS

** 18" CURB HEAD TAPER, CONCRETE IN THE 1.5' TAPER AREA SHALL BE TAPERED TO A DEPTH OF 11-INCHES AND THE EXPANSION FELT SHALL MATCH THAT DEPTH. THIS WORK AND MATERIAL WILL BE INCIDENTAL TO THE BID ITEM.

PLAN VIEW

URBAN DRIVEWAY INTERSECTION DETAIL
(PE'S & FE'S)
(FOR NEW CONSTRUCTION

N2892 HILLCREST DRIVE PLAN DETAIL



CONCRETE LANDSCAPING CURB DETAIL

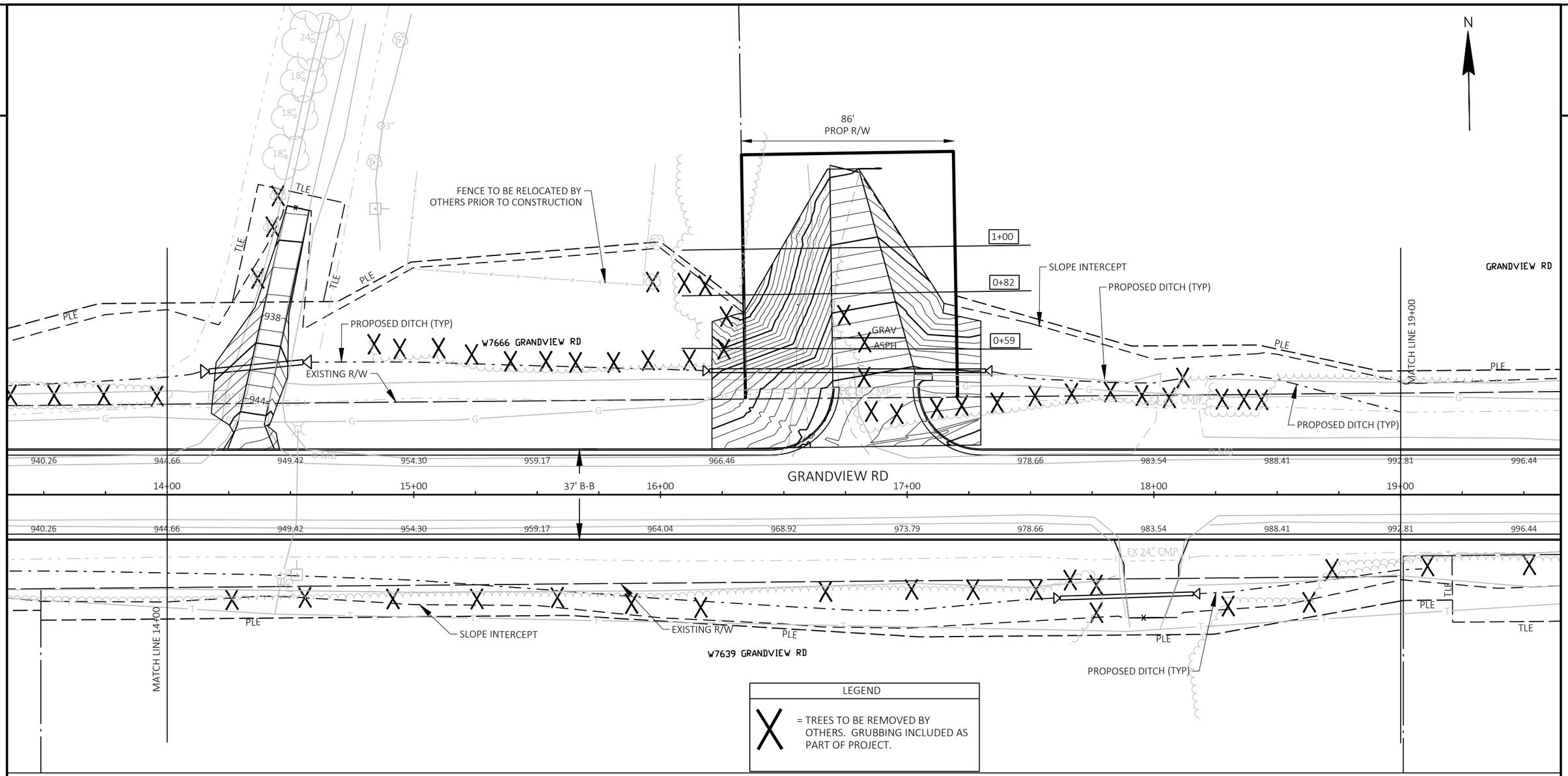
MATCH EXISTING CONCRETE LANDSCAPING CURB DIMENSIONS. COLOR TO MATCH EXISTING. EXISTING COLOR IS CLAY. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

N2892 HILLCREST DRIVE
PARCEL # 080083305
DESPIRITO, PAUL & REBECCA

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS	SHEET 13	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\FIGURES-EXHIBITS\N 2892 HILLCREST DRIVE LOT OVERVIEW.DWG
LAYOUT NAME - Plan 1 IN 40 FT
PLOT DATE : 3/26/2025 2:44 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Figures-Exhibits\N 2892 Hillcrest Drive Lot Overview.dwg, 3/26/2025 2:44:11 PM, Jelinski, 1:1



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CONSTRUCTION DETAILS - STA. 14+30 DRIVEWAY TO STA. 17+00 ROAD	SHEET 14	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP WITH DITCH PROFILES.DWG
LAYOUT NAME - 14+00-19+00 NORTH SIDE

PLOT DATE : 3/26/2025 2:44 PM PLOT BY : JORDAN JELINSKI PLOT NAME :

WISDOT/CADDS SHEET 42

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP With Ditch Profiles.dwg, 3/26/2025 2:44:21 PM, Jelinski, 1:1

2

N

BP 9+00.00

PI 10+00.00

GRANDVIEW RD

10+00 11+00 12+00 13+00 14+00

NORTH ROAD

C

EROSION CONTROL KEY

- = SILT FENCE
- = INLET PROTECTION (TYPE IDENTIFIED)
- = CULVERT PIPE CHECK
- = TEMPORARY STONE DITCH CHECK *
- = TEMPORARY DITCH CHECK (TYP)
- = SALVAGED TOPSOIL, SEED MIX NO. 20 & MULCHING
- = SALVAGED TOPSOIL, SEED MIX NO. 20 & EROSION MAT CLASS I TYPE B
- = LIGHT RIP-RAP & TYPE HR GEOTEXTILE FABRIC
- = TOPSOIL, SEED MIX NO. 40 & MULCHING
- = TOPSOIL, SEEDING MIX NO. 40 & EROSION MAT CLASS I TYPE B

* NOTE: TEMPORARY STONE DITCH CHECKS TO BE INSTALLED CONCURRENTLY WITH THE EMBANKMENT AND DITCH OPERATIONS. INSTALL TEMPORARY STONE DITCH CHECKS PRIOR TO INSTALLING THE LIGHT RIP-RAP IN THE DITCH.

N

GRANDVIEW RD

14+00 15+00 16+00 17+00 18+00 19+00

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	EROSION CONTROL DETAILS	SHEET 15	E

2

2

N

GRANDVIEW RD

19+00 20+00 21+00 22+00 24+00

EP: 103+00.00

PI: 21+00.00

PI: 23+00.00

HILLCREST DRIVE

SEE LAST EROSION CONTROL SHEET FOR HILLCREST DRIVE INFORMATION

EROSION CONTROL KEY

- = SILT FENCE
- = INLET PROTECTION (TYPE IDENTIFIED)
- = CULVERT PIPE CHECK
- = TEMPORARY STONE DITCH CHECK *
- = TEMPORARY DITCH CHECK (TYP)
- = SALVAGED TOPSOIL, SEED MIX NO. 20 & MULCHING
- = SALVAGED TOPSOIL, SEED MIX NO. 20 & EROSION MAT CLASS I TYPE B
- = LIGHT RIP-RAP & TYPE HR GEOTEXTILE FABRIC
- = TOPSOIL, SEED MIX NO. 40 & MULCHING
- = TOPSOIL, SEEDING MIX NO. 40 & EROSION MAT CLASS I TYPE B

* NOTE: TEMPORARY STONE DITCH CHECKS TO BE INSTALLED CONCURRENTLY WITH THE EMBANKMENT AND DITCH OPERATIONS. INSTALL TEMPORARY STONE DITCH CHECKS PRIOR TO INSTALLING THE LIGHT RIP-RAP IN THE DITCH.

N

8" PVC

TWIN 8"

GRANDVIEW RD

24+00 25+00 26+00 27+00 28+00 29+00

TOPSOIL PLACEMENT FROM BACK OF CURB TO SI LIMITS

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	EROSION CONTROL DETAILS	SHEET 16	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW EC.DWG
LAYOUT NAME - 02

PLOT DATE : 3/27/2025 1:44 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : ####

WISDOT/CADDS SHEET 42

2

N

8" PVC
848.40

TWIN 18"

RT 1+00

GRANDVIEW RD

29+00 30+00 31+00 32+00 33+00 34+00

* NOTE: TEMPORARY STONE DITCH CHECKS TO BE INSTALLED CONCURRENTLY WITH THE EMBANKMENT AND DITCH OPERATIONS. INSTALL TEMPORARY STONE DITCH CHECKS PRIOR TO INSTALLING THE LIGHT RIP-RAP IN THE DITCH.

EROSION CONTROL KEY

- = SILT FENCE
- = INLET PROTECTION (TYPE IDENTIFIED)
- = CULVERT PIPE CHECK
- = TEMPORARY STONE DITCH CHECK *
- = TEMPORARY DITCH CHECK (TYP)
- = SALVAGED TOPSOIL, SEED MIX NO. 20 & MULCHING
- = SALVAGED TOPSOIL, SEED MIX NO. 20 & EROSION MAT CLASS I TYPE B
- = LIGHT RIP-RAP & TYPE HR GEOTEXTILE FABRIC
- = TOPSOIL, SEED MIX NO. 40 & MULCHING
- = TOPSOIL, SEEDING MIX NO. 40 & EROSION MAT CLASS I TYPE B

N

LEDGEVIEW TERRACE

GRANDVIEW RD

24" CPP
913.40

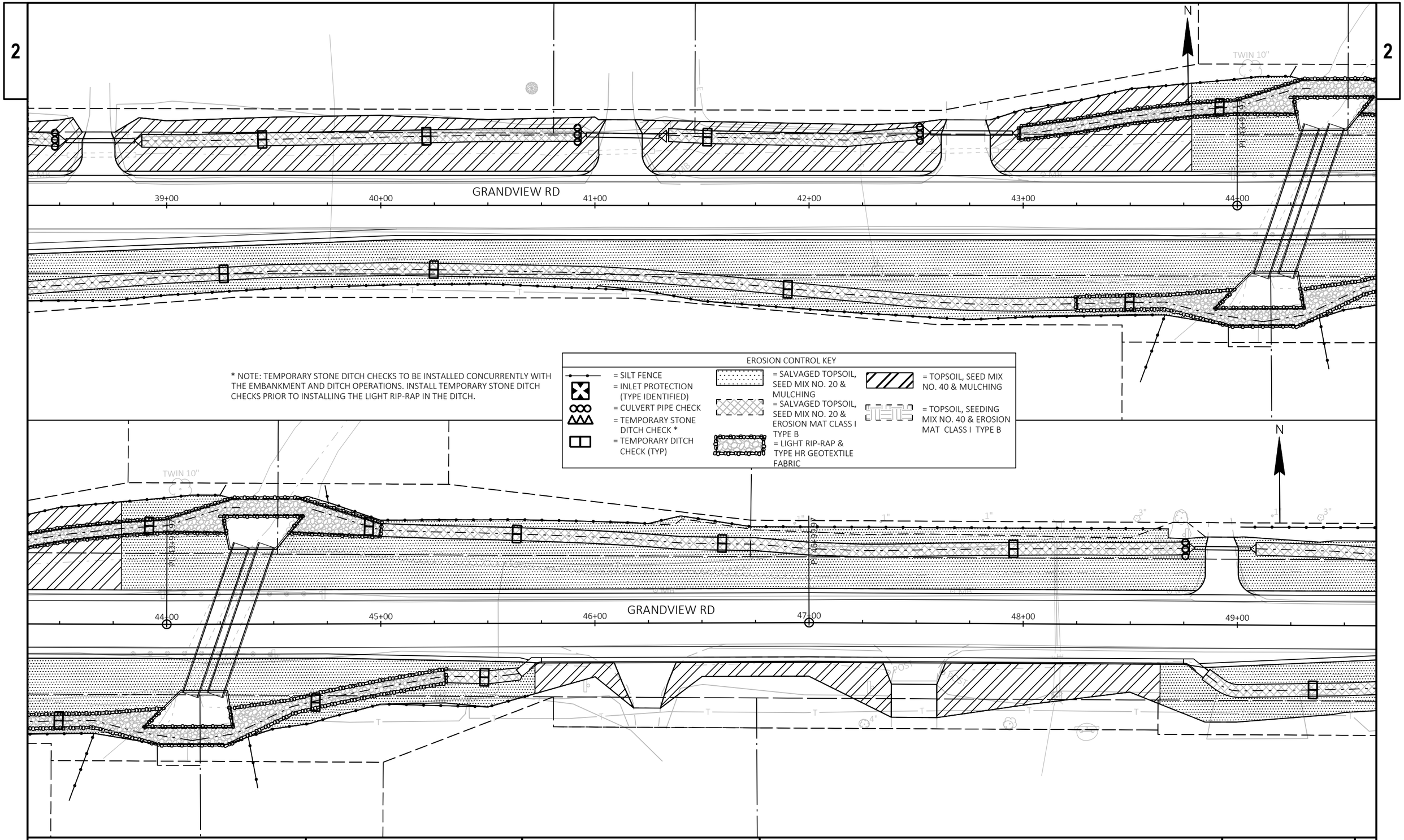
N 38,382.04

34+00 35+00 36+00 37+00 38+00 39+00

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	EROSION CONTROL DETAILS	SHEET 17	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW EC.DWG
LAYOUT NAME - 03

PLOT DATE : 3/27/2025 1:30 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : ####



* NOTE: TEMPORARY STONE DITCH CHECKS TO BE INSTALLED CONCURRENTLY WITH THE EMBANKMENT AND DITCH OPERATIONS. INSTALL TEMPORARY STONE DITCH CHECKS PRIOR TO INSTALLING THE LIGHT RIP-RAP IN THE DITCH.

EROSION CONTROL KEY

- = SILT FENCE
- = INLET PROTECTION (TYPE IDENTIFIED)
- = CULVERT PIPE CHECK
- = TEMPORARY STONE DITCH CHECK *
- = TEMPORARY DITCH CHECK (TYP)
- = SALVAGED TOPSOIL, SEED MIX NO. 20 & MULCHING
- = SALVAGED TOPSOIL, SEED MIX NO. 20 & EROSION MAT CLASS I TYPE B
- = LIGHT RIP-RAP & TYPE HR GEOTEXTILE FABRIC
- = TOPSOIL, SEED MIX NO. 40 & MULCHING
- = TOPSOIL, SEEDING MIX NO. 40 & EROSION MAT CLASS I TYPE B

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	EROSION CONTROL DETAILS	SHEET 18	E

2

N

GRANDVIEW RD

49+00 50+00 51+00 52+00 53+00 54+00

EROSION CONTROL KEY

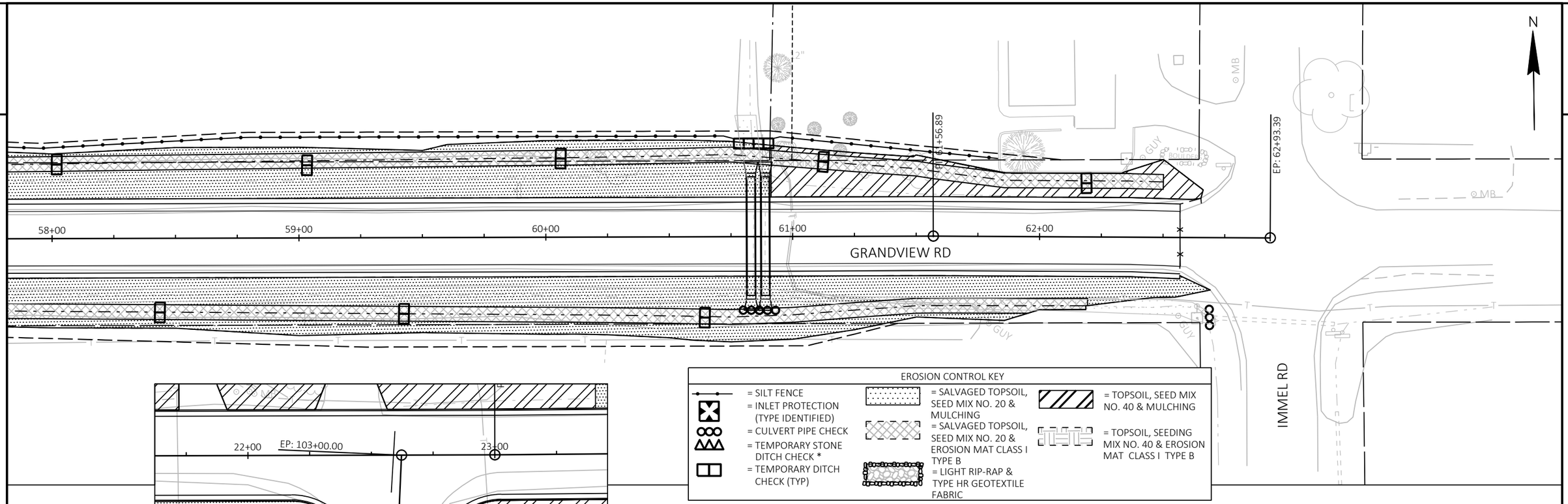
- = SILT FENCE
- = INLET PROTECTION (TYPE IDENTIFIED)
- = CULVERT PIPE CHECK
- = TEMPORARY STONE DITCH CHECK *
- = TEMPORARY DITCH CHECK (TYP)
- = SALVAGED TOPSOIL, SEED MIX NO. 20 & MULCHING
- = SALVAGED TOPSOIL, SEED MIX NO. 20 & EROSION MAT CLASS I TYPE B
- = LIGHT RIP-RAP & TYPE HR GEOTEXTILE FABRIC
- = TOPSOIL, SEED MIX NO. 40 & MULCHING
- = TOPSOIL, SEEDING MIX NO. 40 & EROSION MAT CLASS I TYPE B

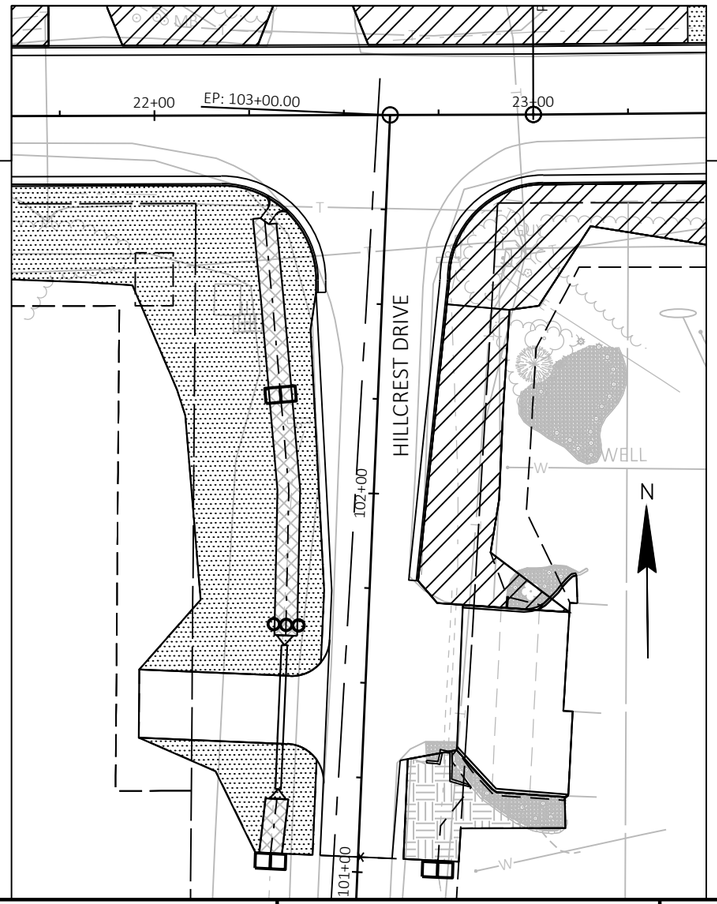
N

GRANDVIEW RD

54+00 55+00 56+00 57+00 58+00 59+00

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	EROSION CONTROL DETAILS	SHEET 19	E

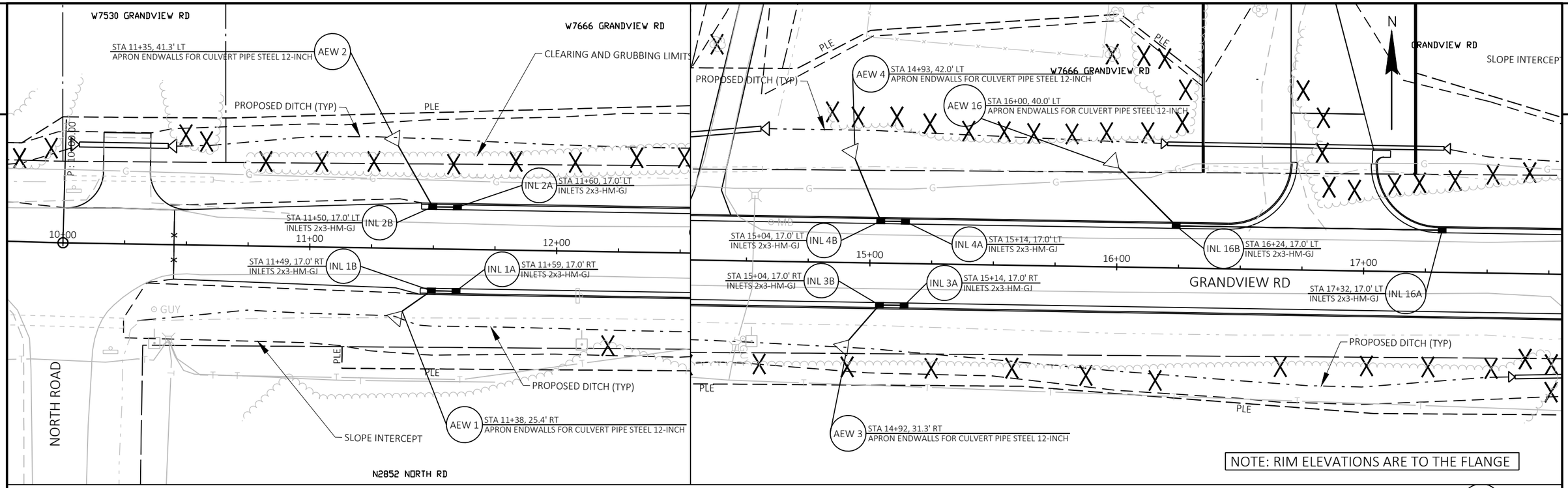


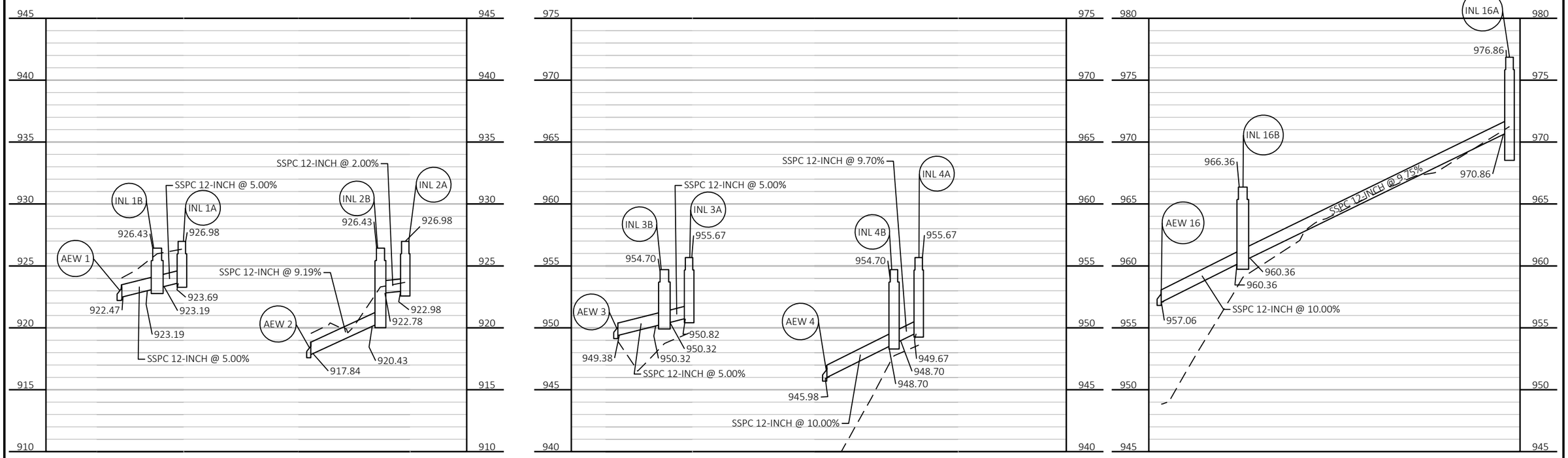


EROSION CONTROL KEY

- = SILT FENCE
- = INLET PROTECTION (TYPE IDENTIFIED)
- = CULVERT PIPE CHECK
- = TEMPORARY STONE DITCH CHECK *
- = TEMPORARY DITCH CHECK (TYP)
- = SALVAGED TOPSOIL, SEED MIX NO. 20 & MULCHING
- = SALVAGED TOPSOIL, SEED MIX NO. 20 & EROSION MAT CLASS I TYPE B
- = LIGHT RIP-RAP & TYPE HR GEOTEXTILE FABRIC
- = TOPSOIL, SEED MIX NO. 40 & MULCHING
- = TOPSOIL, SEEDING MIX NO. 40 & EROSION MAT CLASS I TYPE B

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	EROSION CONTROL DETAILS	SHEET 20	E





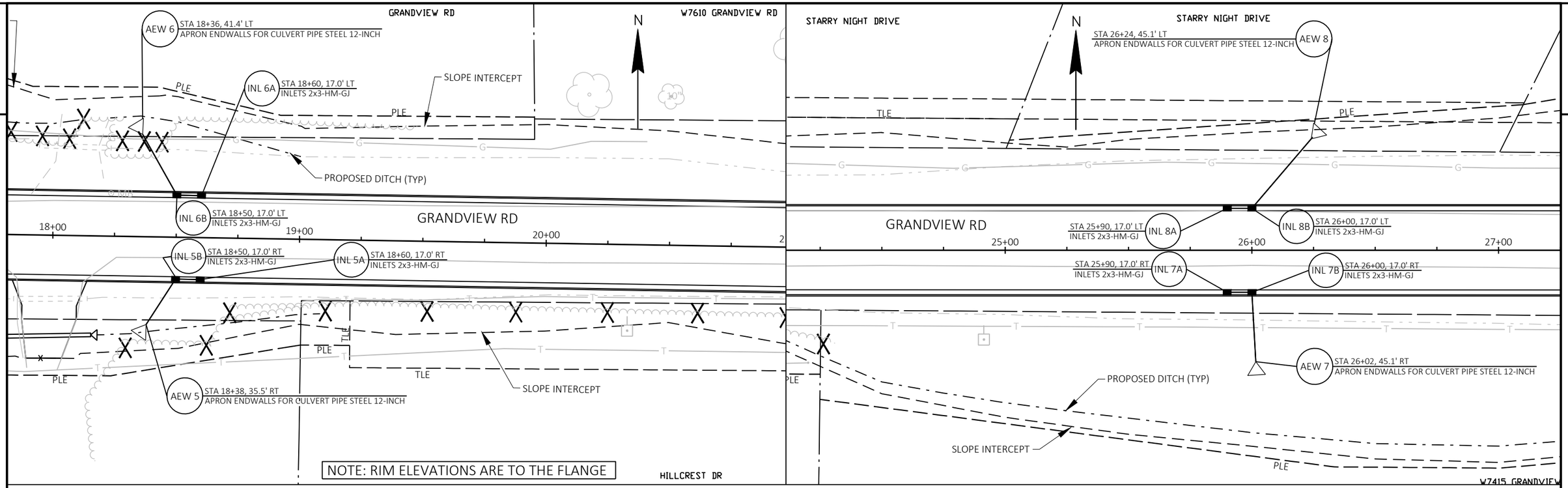
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	STORM SEWER DETAILS	SHEET 21	E

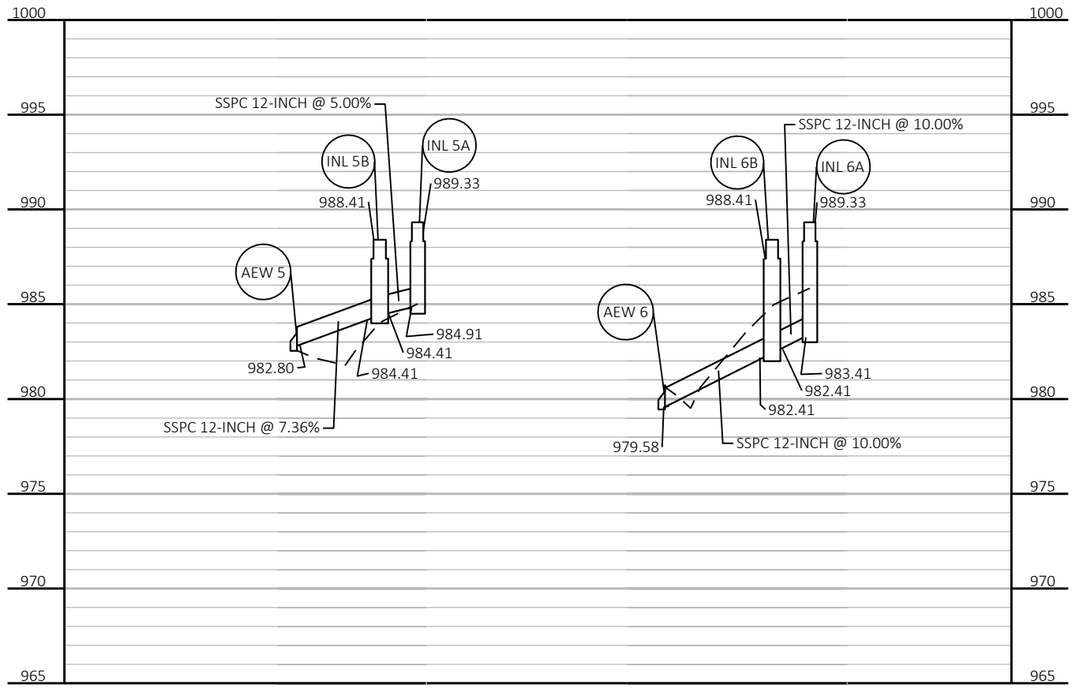
FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRANDVIEW STORM SEWER.DWG
LAYOUT NAME - 01

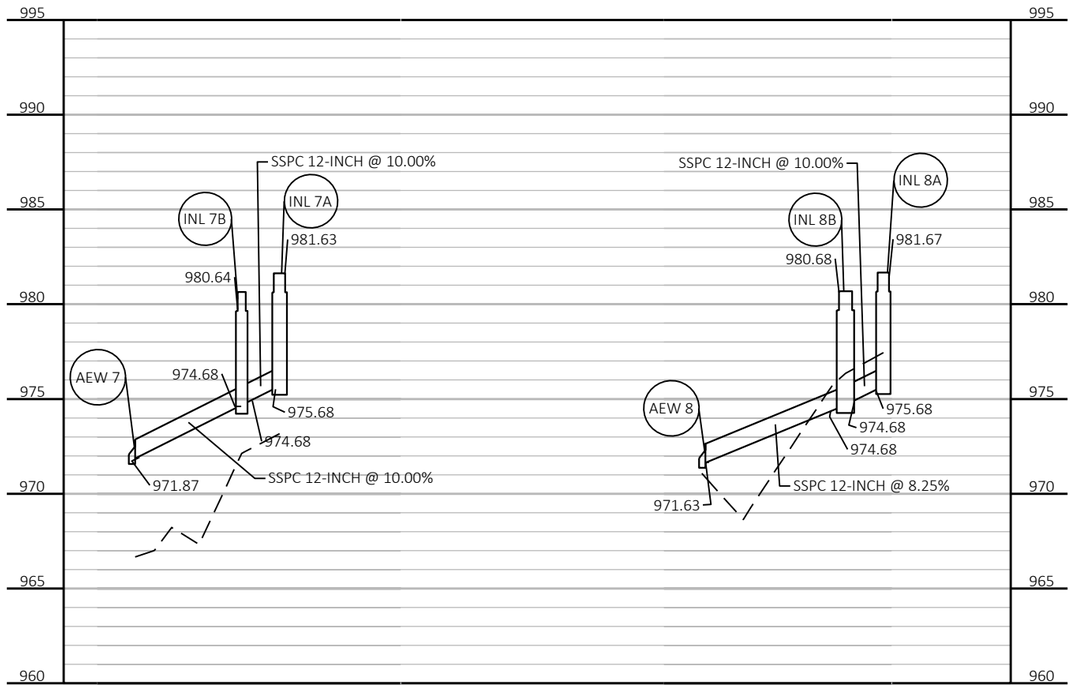
PLOT DATE : 3/26/2025 2:44 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grandview Storm Sewer.dwg, 3/26/2025 2:44:55 PM, Jelinski, 1:1



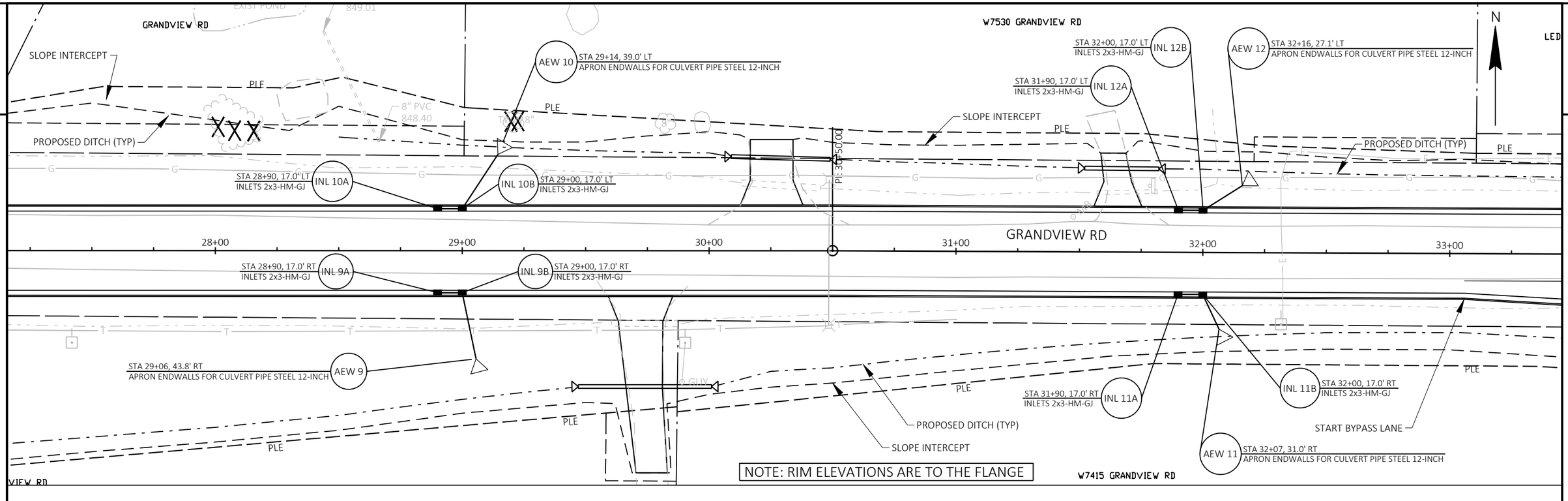




PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	STORM SEWER DETAILS	SHEET 22	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRANDVIEW STORM SEWER.DWG
LAYOUT NAME - 02
PLOT DATE : 3/26/2025 2:45 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grandview Storm Sewer.dwg, 3/26/2025 2:44:58 PM, Jelinski, 1:1



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	STORM SEWER DETAILS	SHEET 23	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRANDVIEW STORM SEWER.DWG
LAYOUT NAME - 03

PLOT DATE : 3/26/2025 2:45 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

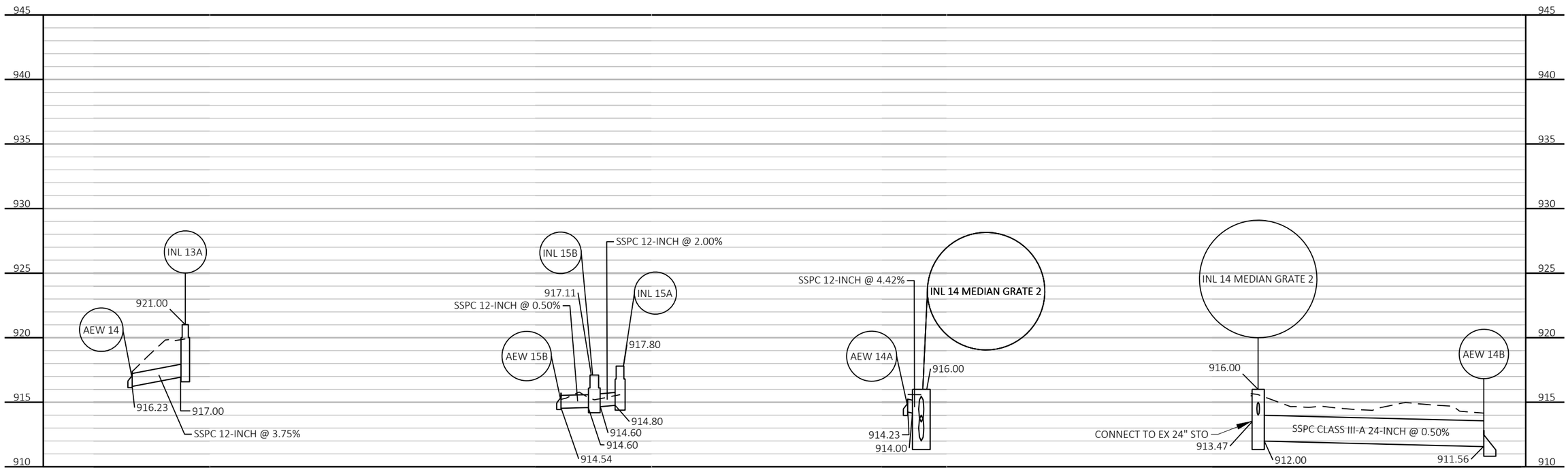
W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grandview Storm Sewer.dwg, 3/26/2025 2:45:00 PM, Jelinski, 1:1

LEDGEVIEW TERRACE

LEDGEVIEW TERRACE

STA 35+27, 43.4' LT
APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH
AEW 14
PROPOSED DITCH (TYP)
PLE
PLE
STA 35+25, 22.9' LT
INLETS 2x3-HM-GJ
INL 13A
GRANDVIEW RD
34+00
35+00
36+00
37+00
38+00
39+00
LEDGEVIEW TERRACE
LEDGEVIEW TERRACE
STA 36+65, 45.7' LT
APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH
AEW 14A
913.82
CPP
CONNECT EXISTING 24" STO
W7474 GRANDVIEW RD
INL 14 MEDIAN GRATE 2
STA 36+65, 40.5' LT
INLETS MEDIAN 2G-MS-A
913.40
W7474 GRANDVIEW RD
AEW 14B
STA 37+52, 36.5' LT
APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 4 TO 1
PROPOSED DITCH (TYP)
SLOPE INTERCEPT
PLE
PI Sta 38+32.04
STA 36+68, 24.0' RT
INLETS 2x3-HM-GJ
INL 15A
END CURB AND GUTTER
INL 15B
STA 36+78, 24.0' RT
INLETS 2x3-HM-GJ
PLE
PLE
PLE
PROPOSED DITCH (TYP)
SLOPE INTERCEPT
W7415 GRANDVIEW RD
W7415 GRANDVIEW RD
AEW 15B
STA 36+86, 34.5' RT
APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH
N

NOTE: RIM ELEVATIONS ARE TO THE FLANGE



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	STORM SEWER DETAILS	SHEET 24	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRANDVIEW STORM SEWER.DWG
LAYOUT NAME - 04
PLOT DATE : 3/26/2025 2:45 PM
PLOT BY : JORDAN JELINSKI
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grandview Storm Sewer.dwg, 3/26/2025 2:45:02 PM, Jelinski, 1:1

2

REMOVE

W1-7
48"X24"
1.1

BP: 9+00.00

PI: 10+00.00

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
- SDD, PERMANENT LONGITUDINAL PAVEMENT MARKINGS
- SDD, STOP LINE AND CROSSWALK PAVEMENT MARKING

N

GRANDVIEW RD

10+00 11+00 12+00 13+00 14+00

B

B

A

GUY

SPEED LIMIT 45
R2-1
24"X30"
1.0

NORTH ROAD

1.2 HILL BLOCKS VIEW
W7-6
30"X30"

1.3 40 MPH
W13-1
18"X18"

HIDDEN DRIVEWAY

SPEED LIMIT 45
REMOVE

LEGEND

A	MARKING EPOXY 6-INCH (YELLOW)
B	MARKING EPOXY 6-INCH (WHITE)
C	MARKING STOP LINE EPOXY 18-INCH (WHITE)

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
- SDD, PERMANENT LONGITUDINAL PAVEMENT MARKINGS
- SDD , STOP LINE AND CROSSWALK PAVEMENT MARKING

N

GRANDVIEW RD

14+00 15+00 16+00 17+00 18+00 19+00

A

MB

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PAVEMENT MARKING AND SIGNING	SHEET 25	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PAVEMENT MARKING AND SIGNING.DWG
LAYOUT NAME - 01

PLOT DATE : 3/26/2025 2:45 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : ####

WISDOT/CADDS SHEET 42

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View Pavement Marking and Signing.dwg, 3/26/2025 2:45:14 PM, Jjelinski, 1:1

2

2

ARKING

N

PI: 21+00.00

PI: 23+00.00

GRANDVIEW RD

19+00 20+00 21+00 22+00 EP: 103+00.00 23+00 24+00

A A C

HILLCREST DRIVE

GUY

STOP 1.4
R1-1
30"X30"

STOP
REMOVE

WELL

HIDDEN DRIVEWAY
REMOVE

1.5 HILL BLOCKS VIEW
W7-6
30"X30"

1.6 40 MPH
W13-1
18"X18"

8" PVC
848.40

TWIN 8"

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
- SDD , PERMANENT LONGITUDINAL PAVEMENT MARKINGS
- SDD , STOP LINE AND CROSSWALK PAVEMENT MARKING

LEGEND

A MARKING EPOXY 6-INCH (YELLOW)

B MARKING EPOXY 6-INCH (WHITE)

C MARKING STOP LINE EPOXY 18-INCH (WHITE)

GRANDVIEW RD

24+00 25+00 26+00 27+00 28+00 29+00

A A

1.4

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PAVEMENT MARKING AND SIGNING	SHEET 26	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PAVEMENT MARKING AND SIGNING.DWG
LAYOUT NAME - 02

PLOT DATE : 3/26/2025 2:45 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : ####

WISDOT/CADDS SHEET 42

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View Pavement Marking and Signing.dwg, 3/26/2025 2:45:16 PM, Jjelinski, 1:1

2

2

N

8" PVC
848.40

TWIN 8"

8"

PP 30+50.00

GRANDVIEW RD

29+00 30+00 31+00 32+00 33+00 34+00

A

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
- SDD , PERMANENT LONGITUDINAL PAVEMENT MARKINGS
- SDD , STOP LINE AND CROSSWALK PAVEMENT MARKING

LEGEND

A MARKING EPOXY 6-INCH (YELLOW)

B MARKING EPOXY 6-INCH (WHITE)

C MARKING STOP LINE EPOXY 18-INCH (WHITE)

1.7

STOP
R1-1
30"X30"

STOP
REMOVE

8" PVC
913.82

CPP
913.58

LEDGEVIEW TERRACE

GRANDVIEW RD

GV

POST

24" CPP
913.40

PI 38+32.04

34+00 35+00 36+00 37+00 38+00 39+00

B C

REFER TO THE FOLLOWING FOR AD
- SDD , PERMANENT LONGITUD MARKINGS
- SDD , STOP LINE AND CROSSW

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View Pavement Marking and Signing.dwg, 3/26/2025 2:45:18 PM, Jjelinski, 1:1

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PAVEMENT MARKING AND SIGNING	SHEET 27	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PAVEMENT MARKING AND SIGNING.DWG
LAYOUT NAME - 03

PLOT DATE : 3/26/2025 2:45 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : ####

WISDOT/CADDS SHEET 42

2

2

N

TWIN 10"

PI: 43+99.97

GRANDVIEW RD

39+00 40+00 41+00 42+00 43+00 44+00

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:
- SDD , PERMANENT LONGITUDINAL PAVEMENT MARKINGS
- SDD , STOP LINE AND CROSSWALK PAVEMENT MARKING

LEGEND

A MARKING EPOXY 6-INCH (YELLOW)

B MARKING EPOXY 6-INCH (WHITE)

C MARKING STOP LINE EPOXY 18-INCH (WHITE)

N

TWIN 10"

PI: 43+99.97

PI: 46+99.97

BIG ROCK

GUY

POST

POST

GRANDVIEW RD

44+00 45+00 46+00 47+00 48+00 49+00

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PAVEMENT MARKING AND SIGNING	SHEET 28	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PAVEMENT MARKING AND SIGNING.DWG
LAYOUT NAME - 04

PLOT DATE : 3/26/2025 2:45 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : #### WISDOT/CADDS SHEET 42

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View Pavement Marking and Signing.dwg, 3/26/2025 2:45:20 PM, Jjelinski, 1:1

2

N

GRANDVIEW RD

49+00 50+00 51+00 52+00 53+00 54+00

BIG BLOCK

GUY

LEGEND

- A — MARKING EPOXY 6-INCH (YELLOW)
- B — MARKING EPOXY 6-INCH (WHITE)
- C — MARKING STOP LINE EPOXY 18-INCH (WHITE)

REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:

- SDD , PERMANENT LONGITUDINAL PAVEMENT MARKINGS
- SDD , STOP LINE AND CROSSWALK PAVEMENT MARKING

N

SPEED LIMIT 45
R2-1
24"X30"
1.8

SPEED LIMIT 45
REMOVE

GRANDVIEW RD

54+00 55+00 56+00 57+00 58+00 59+00

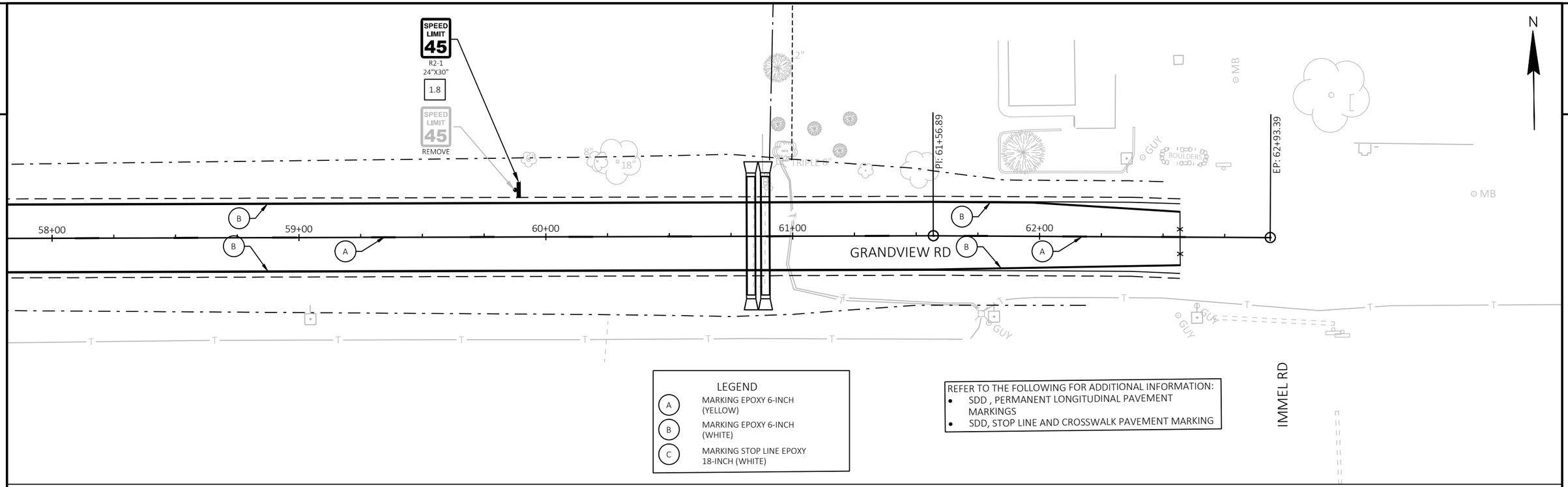
GUY

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PAVEMENT MARKING AND SIGNING	SHEET 29	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PAVEMENT MARKING AND SIGNING.DWG
LAYOUT NAME - 05

PLOT DATE : 3/26/2025 2:45 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : #### WISDOT/CADDS SHEET 42

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View Pavement Marking and Signing.dwg, 3/26/2025 2:45:22 PM, JJelinski, 1:1



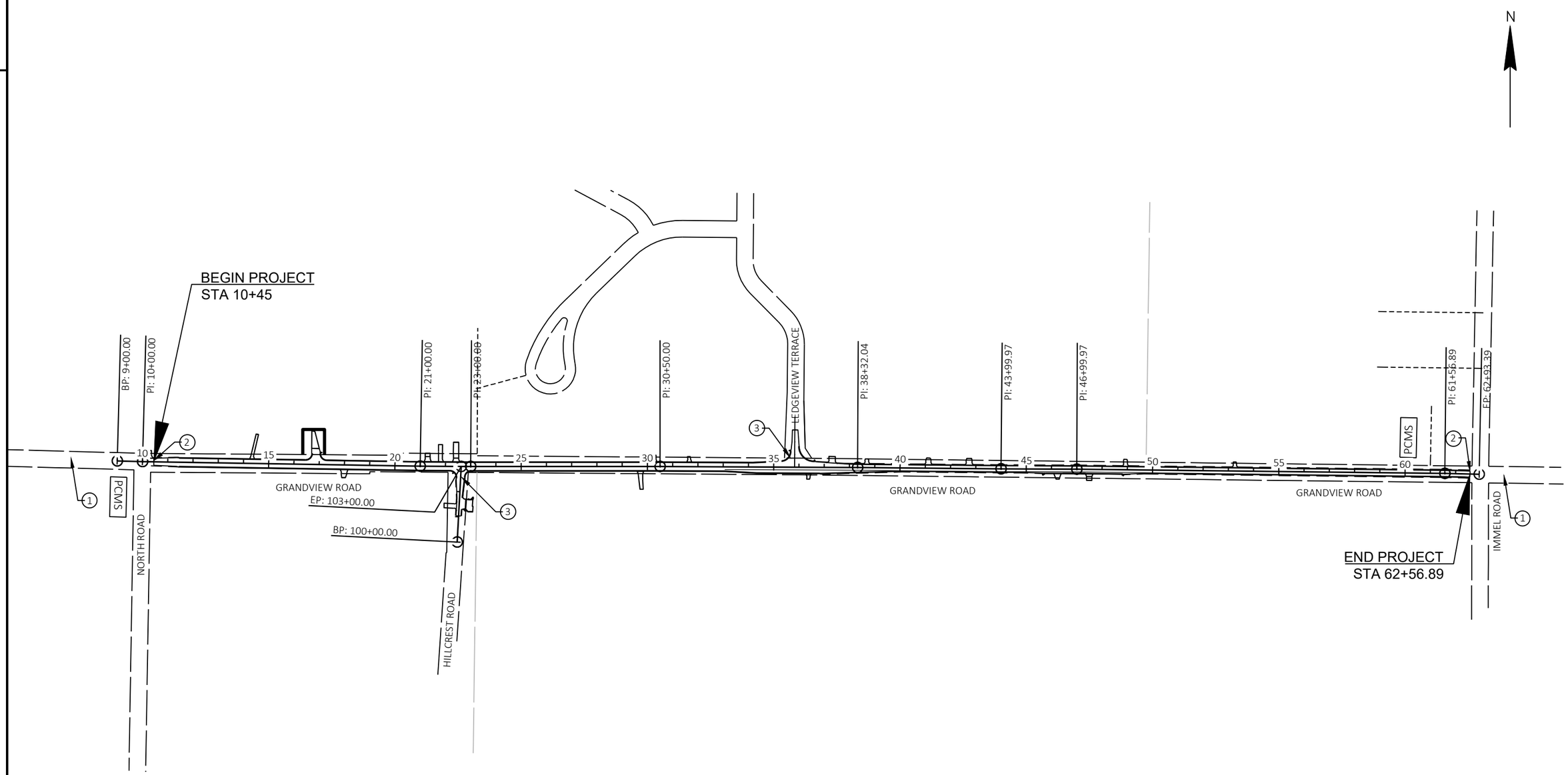
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PAVEMENT MARKING AND SIGNING	SHEET 30	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PAVEMENT MARKING AND SIGNING.DWG
LAYOUT NAME - 06
PLOT DATE : 3/26/2025 2:45 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : ####

WISDOT/CADDS SHEET 42

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View Pavement Marking and Signing.dwg, 3/26/2025 2:45:23 PM, JJelinski, 1:1

2



NOTES:

1. REFER TO SDD FOR BARRICADES AND SIGNS FOR MAINLINE CLOSURES, DETAIL C (MAINLINE CLOSURE, NO POSTED DETOUR)
2. REFER TO SDD FOR BARRICADES AND SIGNS FOR MAINLINE CLOSURES, DETAIL E (LANE CLOSURE BARRICADE DETAIL)
3. REFER TO SDD FOR BARRICADES AND SIGNS FOR SIDEROAD CLOSURES, DETAIL 4 (CONTRACTOR, LOCAL BUSINESS, AND RESIDENT ACCESS TO PROJECT)

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	TRAFFIC CONTROL	SHEET 31	E

FILE NAME : W:\PROJECTS\E00371\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRANDVIEW TC.DWG
LAYOUT NAME - TC
PLOT DATE : 3/26/2025 2:45 PM
PLOT BY : JORDAN JELINSKI
PLOT NAME :
PLOT SCALE : 1 IN:400 FT
WISDOT/CADDS SHEET 42

W:\PROJECTS\E00371\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grandview TC.dwg, 3/26/2025 2:45:36 PM, Jelinski, 1:1

6508-01-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	22.000	22.000
0004	201.0220	Grubbing	ID	46.000	46.000
0006	203.0100	Removing Small Pipe Culverts	EACH	21.000	21.000
0008	203.0220	Removing Structure (structure) 01. 53x83 CMP	EACH	2.000	2.000
0012	204.0100	Removing Concrete Pavement	SY	420.000	420.000
0014	204.0110	Removing Asphaltic Surface	SY	536.000	536.000
0016	204.0115	Removing Asphaltic Surface Butt Joints	SY	23.000	23.000
0018	204.0165	Removing Guardrail	LF	160.000	160.000
0020	204.0185	Removing Masonry	CY	2.000	2.000
0022	205.0100	Excavation Common	CY	14,299.000	14,299.000
0024	205.0400	Excavation Marsh	CY	200.000	200.000
0030	208.0100	Borrow	CY	10,421.000	10,421.000
0034	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 6508-01-71	EACH	1.000	1.000
0038	213.0100	Finishing Roadway (project) 02. 6508-01-71	EACH	1.000	1.000
0040	305.0110	Base Aggregate Dense 3/4-Inch	TON	510.000	510.000
0042	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	15,735.000	15,735.000
0044	305.0130	Base Aggregate Dense 3-Inch	TON	3,460.000	3,460.000
0046	310.0110	Base Aggregate Open-Graded	TON	10.000	10.000
0050	405.0200	Coloring Concrete Custom	CY	2.000	2.000
0052	405.1000	Stamping Colored Concrete	CY	2.000	2.000
0056	455.0605	Tack Coat	GAL	1,150.000	1,150.000
0058	460.2000	Incentive Density HMA Pavement	DOL	2,830.000	2,830.000
0060	460.5223	HMA Pavement 3 LT 58-28 S	TON	2,480.000	2,480.000
0062	460.5224	HMA Pavement 4 LT 58-28 S	TON	1,930.000	1,930.000
0066	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	100.000	100.000
0068	465.0315	Asphaltic Flumes	SY	28.000	28.000
0076	504.0900	Concrete Masonry Endwalls	CY	20.000	20.000
0086	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	16.000	16.000
0088	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	12.000	12.000
0090	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	12.000	12.000
0092	521.1505	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 24-Inch 4 to 1	EACH	1.000	1.000
0094	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	314.000	314.000
0096	521.3124	Culvert Pipe Corrugated Steel 24-Inch	LF	204.000	204.000
0098	522.2319	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 19x30-Inch	LF	72.000	72.000
0100	522.2324	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 24x38-Inch	LF	96.000	96.000
0102	522.2353	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 53x83-Inch	LF	168.000	168.000
0104	522.2619	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	4.000	4.000
0106	522.2624	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	4.000	4.000
0108	522.2653	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 53x83-Inch	EACH	4.000	4.000
0114	601.0415	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	5,465.000	5,465.000
0116	602.0810	Concrete Driveway 6-Inch	SY	390.000	390.000
0118	606.0100	Riprap Light	CY	685.000	685.000
0120	606.0200	Riprap Medium	CY	55.000	55.000
0124	608.3624	Storm Sewer Pipe Class III-B 24-Inch	LF	88.000	88.000
0126	608.6012	Storm Sewer Pipe Composite 12-Inch	LF	581.000	581.000
0128	611.0630	Inlet Covers Type HM-GJ	EACH	29.000	29.000
0130	611.0645	Inlet Covers Type MS-A	EACH	2.000	2.000
0132	611.3230	Inlets 2x3-FT	EACH	29.000	29.000
0134	611.3902	Inlets Median 2 Grate	EACH	1.000	1.000

6508-01-71

Line	Item	Item Description	Unit	Total	Qty
0136	612.0106	Pipe Underdrain 6-Inch	LF	120.000	120.000
0138	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	30.000	30.000
0142	612.0700	Drain Tile Exploration	LF	60.000	60.000
0150	619.1000	Mobilization	EACH	0.600	0.600
0152	621.0100	Landmark Reference Monuments	EACH	5.000	5.000
0154	624.0100	Water	MGAL	268.000	268.000
0156	625.0100	Topsoil	SY	4,231.000	4,231.000
0158	625.0500	Salvaged Topsoil	SY	30,612.000	30,612.000
0160	627.0200	Mulching	SY	32,944.000	32,944.000
0162	628.1104	Erosion Bales	EACH	300.000	300.000
0164	628.1504	Silt Fence	LF	3,200.000	3,200.000
0166	628.1520	Silt Fence Maintenance	LF	3,200.000	3,200.000
0168	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0170	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0172	628.2004	Erosion Mat Class I Type B	SY	4,207.000	4,207.000
0178	628.7005	Inlet Protection Type A	EACH	1.000	1.000
0180	628.7015	Inlet Protection Type C	EACH	40.000	40.000
0184	628.7555	Culvert Pipe Checks	EACH	120.000	120.000
0186	628.7560	Tracking Pads	EACH	3.000	3.000
0188	628.7570	Rock Bags	EACH	50.000	50.000
0190	629.0205	Fertilizer Type A	CWT	24.000	24.000
0192	630.0120	Seeding Mixture No. 20	LB	1,457.000	1,457.000
0196	630.0140	Seeding Mixture No. 40	LB	190.000	190.000
0198	630.0200	Seeding Temporary	LB	987.000	987.000
0200	630.0500	Seed Water	MGAL	110.000	110.000
0202	633.5200	Markers Culvert End	EACH	6.000	6.000
0204	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	6.000	6.000
0206	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	2.000	2.000
0208	637.2210	Signs Type II Reflective H	SF	38.000	38.000
0212	638.2602	Removing Signs Type II	EACH	6.000	6.000
0214	638.3000	Removing Small Sign Supports	EACH	6.000	6.000
0216	642.5201	Field Office Type C	EACH	0.600	0.600
0218	643.0300	Traffic Control Drums	DAY	13,820.000	13,820.000
0220	643.0420	Traffic Control Barricades Type III	DAY	2,750.000	2,750.000
0222	643.0705	Traffic Control Warning Lights Type A	DAY	5,500.000	5,500.000
0224	643.0900	Traffic Control Signs	DAY	2,750.000	2,750.000
0226	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0228	643.5000	Traffic Control	EACH	0.600	0.600
0230	645.0111	Geotextile Type DF Schedule A	SY	64.000	64.000
0232	645.0120	Geotextile Type HR	SY	2,915.000	2,915.000
0234	646.2020	Marking Line Epoxy 6-Inch	LF	12,707.000	12,707.000
0236	646.6120	Marking Stop Line Epoxy 18-Inch	LF	37.000	37.000
0238	648.0100	Locating No-Passing Zones	MI	1.000	1.000
0240	650.4000	Construction Staking Storm Sewer	EACH	47.000	47.000
0242	650.4500	Construction Staking Subgrade	LF	5,515.000	5,515.000
0244	650.5000	Construction Staking Base	LF	5,515.000	5,515.000
0246	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	5,465.000	5,465.000
0248	650.6000	Construction Staking Pipe Culverts	EACH	19.000	19.000
0254	650.9911	Construction Staking Supplemental Control (project) 02. 6508-01-71	EACH	1.000	1.000

6508-01-71

Line	Item	Item Description	Unit	Total	Qty
0256	650.9920	Construction Staking Slope Stakes	LF	5,515.000	5,515.000
0258	690.0150	Sawing Asphalt	LF	165.000	165.000
0260	690.0250	Sawing Concrete	LF	111.000	111.000
0264	740.0440	Incentive IRI Ride	DOL	4,000.000	4,000.000
0268	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
0270	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,200.000	1,200.000
0272	SPV.0035	Special 01. Town Furnished Borrow	CY	9,250.000	9,250.000
0274	SPV.0060	Special 01. Temporary Water Diversion Dual 53-Inch x 83-Inch Culvert Pipes Station 44+25	EACH	1.000	1.000
0278	SPV.0090	Special 02. Concrete Landscaping Curb	LF	5.000	5.000
0280	SPV.0165	Special 01. Salvage and Reset Landscaping	SF	90.000	90.000
0284	SPV.0195	Special 02. Temporary Stone Ditch Checks	TON	230.000	230.000

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GRUBBING

STATION	LOCATION	201.0205 GRUBBING STA.	201.0220 GRUBBING ID
STA. 9+00 - 25+00 RT. & LT.	GRAND VIEW ROAD	16	-
STA. 44+00 - 47+00 RT. & LT.	GRAND VIEW ROAD	3	-
STA. 59+00 - 62+00 LT.	GRAND VIEW ROAD	3	-
STA. 28+08 LT.	GRAND VIEW ROAD	-	30
STA. 29+21 LT.	GRAND VIEW ROAD	-	16
PROJECT TOTALS		22	46

REMOVING STRUCTURE

203.0220

STATION	LOCATION	EACH	REMARKS
44+25 LT. & RT.	GRAND VIEW ROAD	2	53" x 83" CMP
PROJECT TOTALS		2	

REMOVING GUARDRAIL

204.0165

STATION	LOCATION	LF.
43+75 - 44+53 RT.	GRAND VIEW ROAD	80
43+95 - 44+73 LT.	GRAND VIEW ROAD	80
PROJECT TOTALS		160

REMOVING CONCRETE PAVEMENT

204.0100

STATION	LOCATION	S.Y.
21+29 LT.	GRAND VIEW RD.	30
22+43 LT.	GRAND VIEW RD.	200
47+49 RT.	GRAND VIEW RD.	40
101+50 RT.	HILLCREST RD.	150
PROJECT TOTAL		420

NOTE: CONCRETE DRIVEWAY REMOVAL

REMOVING MASONRY

204.0185

STATION	LOCATION	CY
101+18 RT	HILLCREST RD	2
PROJECT TOTALS		2

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EARTHWORK

STATION TO STATION	LOCATION	205.0100 EXCAVATION COMMON CUT CY	UNUSABLE PAVEMENT MATERIAL CY	205.0400 EXCAVATION MARSH CY	* MARSH BACKFILL BASE AGGREGATE DENSE 3-INCH TONS	* EBS BACKFILL BASE AGGREGATE DENSE 3-INCH TONS	AVAILABLE MATERIAL CY	UNEXPANDED FILL CY	EXPANDED FILL FACTOR 1.25 CY	MASS ORDINATE CY	WASTE CY	SPV.0035.01 TOWN FURNISHED BORROW CY	208.0100 BORROW CY	REMARKS
10+45 - 62+57	GRAND VIEW RD	11517	1626	-	-	-	9891	24613	30766	-20875	-	-	-	GRAND VIEW RD (INCLUDES LEDGEVIEW DR)
101+04 - 103+00	HILLCREST RD	1282	66	-	-	-	1216	9	11	1205	-	-	-	HILLCREST RD
44+25 LT &RT	GRAND VIEW RD	-	-	200	-	-	-	-	-		200	-	-	MARSH AREA
UNDISTRIBUTED EBS	PROJECT WIDE	1500	-	-	-	3050	-	-	-	-	1500	-	-	EBS
TOWN OF ELLINGTONSTOCKPILE	GRAND VIEW RD	-	-	-	-	-	-	-	-	-	-	9250	-	STOCKPILE
6508-01-71	PROJECT WIDE	-	-	-	410	-	-	-	-	-	-	-	10421	MASS ORDINATE MINUS TOWN FURNISHED BORROW
PROJECT TOTAL		14299	1692	200	410	3050	11107	24622	30778	-19671	1700	9250	10421	

* - ADDITIONAL QUANTITIES SHOWN ELSEWHERE

AVAILABLE MATERIAL = CUT MINUS THE UNUSABLE ASPHALT PAVEMENT MATERIAL

UNUSEABLE PAVEMENT MATERIAL IS INCLUDED IN CUT

EXPANDED FILL = (UNEXPANDED FILL) * EXPANDED FILL FACTOR. EXPANDED FILL FACTOR = 1.25

MASS ORDINATE: MASS ORDINATE QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISON. MINUS MASS ORDINATE QUANTITIY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISON

EBS AND MARSH EXCAVATION MATERIAL SHALL NOT BE USED IN FILLS

EBS EXCAVATION SHALL BE BACKFILLED WITH BASE AGGREGATE DENSE 3-INCH MATERIAL

USE MATERIAL FROM ROADWAY WASTE AND TOWN OF ELLINGTON STOCKPILE MATERIAL FOR CONSTRUCTION OF FILLS PRIOR TO BORROW

MARSH EXCAVATION BACKFILLED WITH ITEM 305.0130 BASE AGGREGATE DENSE 3-INCH

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STATION TO STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1-1/4 INCH TON	305.0130 3-INCH TON	624.0100 WATER MGAL	REMARKS
9+00 - 62+93	GRAND VIEW ROAD	-	14600	-	218.0	INCLUDES HILLCREST MAINLINE
10+59 - 11+25	GRAND VIEW ROAD	15	-	--	-	SHOULDERS
36+55 - 62+57	GRAND VIEW ROAD	475	-	--	-	SHOULDERS
101+04 - 102+56	HILLCREST RD.	20	-	--	-	SHOULDERS
STA. 10+26 LT	GRAND VIEW ROAD	--	50	--	--	DRIVEWAY
STA. 14+35 LT.	GRAND VIEW ROAD	--		--	--	DRIVEWAY
STA. 16+68 LT.	GRAND VIEW ROAD	--	185	--	--	DRIVEWAY
STA. 17+99 RT.	GRAND VIEW ROAD	--	43	--	--	DRIVEWAY
STA. 21+29 LT.	GRAND VIEW ROAD	--	49	--	--	DRIVEWAY
STA. 21+80 LT.	GRAND VIEW ROAD	--	84	--	--	DRIVEWAY
STA. 22+43 LT.	GRAND VIEW ROAD	--	97	--	--	DRIVEWAY
STA. 29+72 RT.	GRAND VIEW ROAD	--	98	--	--	DRIVEWAY
STA. 30+26 LT.	GRAND VIEW ROAD	--	37	--	--	DRIVEWAY
STA. 31+65 LT.	GRAND VIEW ROAD	--	18	--	--	DRIVEWAY
STA. 36+38 RT.	GRAND VIEW ROAD	--	23	--	--	DRIVEWAY
STA. 37+31 LT.	GRAND VIEW ROAD	--	52	--	--	DRIVEWAY
STA. 38+68 LT.	GRAND VIEW ROAD	--	25	--	--	DRIVEWAY
STA. 41+12 LT.	GRAND VIEW ROAD	--	40	--	--	DRIVEWAY
STA. 42+73 LT.	GRAND VIEW ROAD	--	47	--	--	DRIVEWAY
STA. 46+25 RT.	GRAND VIEW ROAD	--	34	--	--	DRIVEWAY
STA. 47+25 RT.	GRAND VIEW ROAD	--	29	--	--	DRIVEWAY
STA. 48+93 LT.	GRAND VIEW ROAD	--	34	--	--	DRIVEWAY
STA. 53+26 LT.	GRAND VIEW ROAD	--	25	--	--	DRIVEWAY
STA. 101+42 LT.	GRAND VIEW ROAD	--	69	--	--	DRIVEWAY
STA. 101+45 RT.	GRAND VIEW ROAD	--	96	--	--	DRIVEWAY
UNDISTRIBUTED	PROJECT WIDE	-	-	3050	-	EBS AREAS
UNDISTRIBUTED	PROJECT WIDE	-	-	-	50	WATER FOR DUST CONTROL
UNDISTRIBUTED MARSH EXCAVATION	GRAND VIEW ROAD	-	-	410	-	-
PROJECT TOTALS		510	15,735	3,460	268	

REMOVING SMALL PIPE CULVERTS

203.0100

STATION	LOCATION	EACH
10+01 RT	GRAND VIEW ROAD	1
10+30 LT	GRAND VIEW ROAD	1
14+34 LT.	GRAND VIEW ROAD	1
16+63 LT.	GRAND VIEW ROAD	1
18+00 RT.	GRAND VIEW ROAD	1
18+09 LT.	GRAND VIEW ROAD	1
21+028 LT.	GRAND VIEW ROAD	1
29+74 RT.	GRAND VIEW ROAD	1
30+29 LT.	GRAND VIEW ROAD	1
31+67 LT.	GRAND VIEW ROAD	1
36+39 LT.	GRAND VIEW ROAD	1
36+42 RT.	GRAND VIEW ROAD	1
38+68 LT.	GRAND VIEW ROAD	1
41+12 LT.	GRAND VIEW ROAD	1
42+73 LT.	GRAND VIEW ROAD	1
44+26	GRAND VIEW ROAD	2
52+81	GRAND VIEW ROAD	1
53+27 LT.	GRAND VIEW ROAD	1
60+86	GRAND VIEW ROAD	1
101+54 RT.	HILLCREST RD.	1
PROJECT TOTALS		21

FINISHING ROADWAY

213.0100

STATION	LOCATION	EACH
6508-01-71	GRAND VIEW ROAD	1
PROJECT TOTALS		1

CONCRETE DRIVEWAYS

602.0810

STATION	LOCATION	6-INCH S.Y.
21+29 LT.	GRAND VIEW RD.	30
22+43 LT.	GRAND VIEW RD.	150
47+49 RT.	GRAND VIEW RD.	40
101+50 RT.	HILLCREST RD.	150
	UNDISTRIBUTED	20
	PROJECT TOTALS	390

LANDSCAPE ITEMS HOUSE N2892 HILLCREST

STATION	LOCATION	405.0200 COLORING CONCRETE CUSTOM CY	405.1000 STAMPING COLORED CONCRETE CY	SPV.0090.01 CONCRETE LANDSCAPING CURB LF	SPV.0165.01 SALVAGE AND RESET LANDSCAPING SF
101+25 RT.	HILLCREST RD	1	1	-	20
101+75 RT.	HILLCREST RD	1	1	5	70
	PROJECT TOTAL	2	2	5	90

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ASPHALTIC ITEMS

STATION TO STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	455.0605 TACK COAT GAL	460.5223 HMA 3 LT 58-28S TONS	460.5224 HMA 4 LT 58-28S TONS	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TONS	465.0315 ASPHALTIC FLUMES SY	REMARKS
14+36 LT	GRAND VIEW RD.	135	-	-	-	-	25	-	DRIVEWAY
18+00 RT.	GRAND VIEW RD.	115	-	-	-	-	15	-	DRIVEWAY
21+30 LT.	GRAND VIEW RD.	57	-	-	-	-	15	-	DRIVEWAY
22+43 LT.	GRAND VIEW RD.	39	-	-	-	-	9	-	DRIVEWAY
38+69 LT.	GRAND VIEW RD.	50	-	-	-	-	8	-	DRIVEWAY
41+13 LT.	GRAND VIEW RD.	73	-	-	-	-	13	-	DRIVEWAY
101+50 RT.	HILLCREST RD.	67	-	-	-	-	15	-	DRIVEWAY
22+00 - 37+00	GRAND VIEW RD.	-	-	-	-	-	-	20	FLUMES
45+75 RT.	GRAND VIEW RD.	-	-	-	-	-	-	4	FLUMES
48+75 RT.	GRAND VIEW RD.	-	-	-	-	-	-	4	FLUMES
MAINLINE PAVEMENT	GRAND VIEW RD.	-	-	1150	2480	1930	-	-	GRAND VIEW & HILLCREST
10+44	GRAND VIEW RD.	-	7	-	-	-	-	-	MATCH POINT
MATCH POINT	HILLCREST RD.	-	4	-	-	-	-	-	MATCH POINT
MATCH POINT	LEDGEVIEW TERRACE	-	5	-	-	-	-	-	MATCH POINT
62+56	HILLCREST RD.	-	7	-	-	-	-	-	MATCH POINT
	PROJECT TOTALS	536	23	1150	2480	1930	100	28	

CONCRETE MASONRY ENDWALLS

504.0900

STATION	LOCATION	CY
44+10 RT.	GRAND VIEW ROAD	10
44+46 LT.	GRAND VIEW ROAD	10
	PROJECT TOTALS	20

CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J

601.0415

STATION	LOCATION	LF
11+45 - 22+45 RT.	GRAND VIEW RD.	1120
11+45 - 35+68 LT.	GRAND VIEW RD.	2445
23+02.44 - 36+83 RT.	GRAND VIEW RD.	1425
35+97 - 36+58 LT.	GRAND VIEW RD.	95
45+75 - 48+75 RT.	GRAND VIEW RD.	300
101+77 - 102+57 RT.	HILLCREST RD.	80
	PROJECT TOTALS	5465

RIPRAP & GEOTEXTILE FABRIC

STATION	LOCATION	606.0100 RIPRAP LIGHT CY	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
44+10 RT.	GRAND VIEW RD.	-	30	80
44+46 LT.	GRAND VIEW RD.	-	25	75
9+00 - 22+50	GRAND VIEW RD.	335	-	1260
22+50 - 36+40	GRAND VIEW RD.	260	-	1135
36+40 - 62+70	GRAND VIEW RD.	90	-	365
	PROJECT TOTALS	685	55	2915

PIPE UNDERDRAIN ITEMS

STATION	LOCATION	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	310.0110 BASE AGGREGATE OPEN-GRADED TON	645.0111 GEOEXTILE TYPE DF SCHEDULE A SY
53+98 RT.	GRAND VIEW RD.	-	10	-	-
60+53 RT.	GRAND VIEW RD.	-	10	-	-
60+90 LT.	GRAND VIEW RD.	-	10	-	-
32+00 LT.	GRAND VIEW RD.	30	-	2.5	16
32+00 RT.	GRAND VIEW RD.	30	-	2.5	16
35+25 LT.	GRAND VIEW RD.	30	-	2.5	16
36+78 RT.	GRAND VIEW RD.	30	-	2.5	16
	PROJECT TOTAL	120	30	10	64

NOTE: PLACE UNDERDRAIN 10' IN ALL THREE DIRECTIONS IN THE ROADWAY AT EACH LOCATION

DRAIN TILE EXPLORATION

612.0700

STATION	LOCATION	LF
53+98 RT.	GRAND VIEW RD.	25
60+53 RT.	GRAND VIEW RD.	25
60+90 LT.	GRAND VIEW RD.	10
	PROJECT TOTAL	60

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MOBILIZATION
619.1000

STATION	LOCATION	EA.
9+00 - 62+93 RT.	GRAND VIEW ROAD	0.6
	PROJECT TOTALS	0.6

LANDMARK REFERENCE MONUMENTS
621.0100

STATION	LOCATION	EA.	REMARKS
36+50.39	GRAND VIEW ROAD	5	SECTION CORNER & 4 WITNESS MONUMENTS
	PROJECT TOTALS	5	

EROSION CONTROL

PROJECT	628.1905 MOBILIZATIONS EACH	628.1910 MOBILIZATIONS EMERGENCY EACH
6508-01-71	5	2
PROJECT TOTALS	5	2

MARKERS CULVERT END
633.5200

STATION	LOCATION	EA
44+28 LT. & RT.	GRAND VIEW RD.	2
52+50 LT. & RT.	GRAND VIEW RD.	2
60+87 LT. & RT.	GRAND VIEW RD.	2
	PROJECT TOTAL	6

FIELD OFFICE TYPE C
642.5201

LOCATION	EACH
6508-01-71	0.6
PROJECT TOTALS	0.6

REMOVING SIGNS AND SUPPORTS

STATION	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
10+04 LT.	GRAND VIEW RD	1	1	DOUBLE ARROW
12+10 RT.	GRAND VIEW RD	1	1	SPEED LINIT / HIDDEN DRIVWAY
22+77 RT.	GRAND VIEW RD	1	1	STOP SIGN
28+50 LT.	GRAND VIEW RD	1	1	HIDDEN DRIVEWAY
35+54 LT.	GRAND VIEW RD	1	1	STOP SIGN
59+88 LT.	GRAND VIEW RD	1	1	SPEED LIMIT
	PROJECT TOTALS	6	6	

PERMANENT SIGNING

SIGN #	STATION	LOCATION	SIGN CODE	SIZE W X H	634.0614 POST WOOD 4X6-INCH 14-FT EA	634.0616 POST WOOD 4X6-INCH 16-FT EA	637.2210 SIGNS TYPE II REFLECTIVE H SF	REMARKS
1.0	14+80 RT.	GRAND VIEW RD	R2-1	18" X 24"	1	-	3.00	SPEED LINIT / 45 MPH
1.1	10+02 LT.	GRAND VIEW RD	WI-7	36" X 18"	1	-	4.50	DOUBLE ARROW
1.2	12+10 RT.	GRAND VIEW RD	W7-6	24" X 24"	1	1	4.00	HILL BLOCKS VIEW
1.3	12+10 RT.	GRAND VIEW RD	W13-1P	18" X 18"	-	-	2.25	40 MPH (ADVISORY)
1.4	22+86 RT.	GRAND VIEW RD	R1-1	36" X 36"	1	-	7.46	STOP SIGN / HILLCREST RD
1.5	28+50 LT.	GRAND VIEW RD	W7-6	24" X 24"	-	1	4.00	HILL BLOCKS VIEW
1.6	28+50 LT.	GRAND VIEW RD	W13-1P	18" X 18"	-	-	2.25	40 MPH (ADVISORY)
1.7	35+50 LT.	GRAND VIEW RD	R1-1	36" X 36"	1	-	7.46	STOP SIGN / LEDGEVIEW TR
1.8	59+88 LT.	GRAND VIEW RD	R2-1	18" X 24"	1	-	3.00	SPEED LINIT / 45 MPH
				PROJECT TOTALS	6	2	38	

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TRAFFIC CONTROL

LOCATION	APPROX. SERVICE PERIOD DAYS	643.0300 DRUMS NO.	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III NO.	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A NO.	643.0705 WARNING LIGHTS TYPE A DAYS	643.0900 SIGNS NO.	643.0900 SIGNS DAYS	643.1050 SIGNS PCMS NO.	643.1050 SIGNS PCMS DAYS	REMARKS
6508-01-71	7	5	35	0	0	0	0	0	0	1	7	ADVANCED WARNING FOR CLOSURE
6508-01-71	7	5	35	0	0	0	0	0	0	1	7	ADVANCED WARNING FOR CLOSURE
6508-01-71	110	125	13750	25	2750	50	5500	25	2750	-	-	PROJECT LANE TRAFFIC CONTROL
PROJECT TOTALS			13820		2750		5500		2750		14	

PAVEMENT MARKING EPOXY

STATION TO STATION	LOCATION	646.2020 MARKING LINE EPOXY 6-INCH LF	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	DESCRIPTIONS
9+00 - 11+45 LT & RT	GRAND VIEW RD	495	-	EDGELINE WHITE
9+00 - 37+67 CL	GRAND VIEW RD	5752	-	DOUBLE YELLOW
37+67 - 45+65 CL	GRAND VIEW RD	250	-	SKIPS
45+65 - 49+65 CL	GRAND VIEW RD	800	-	DOUBLE YELLOW
49+65 - 62+57 CL	GRAND VIEW RD	413		SKIPS
36+63 - 62+57 LT & RT	GRAND VIEW RD	4870	-	EDGELINE WHITE
34+32 - 36+82 RT	GRAND VIEW RD	88	-	BYPASS SKIPS
36+59 - 37+67 LT	GRAND VIEW RD	39	-	3' SKIPS
102+68 RT	HILLCREST RD	-	17	STOP LINE
200+42 LT	LEDGEVIEW	-	20	STOP LINE
PROJECT TOTALS		12707	37	

LOCATING NO PASSING LANES

648.0100

PROJECT	MI
6508-01-71	1
PROJECT TOTALS	1

SAWING ASPHALT

690.0150

STATION	LOCATION	LF	DESCRIPTION
10+45	GRAND VIEW RD	30	MATCH POINT
14+53 LT.	GRAND VIEW RD	10	DRIVEWAY
17+96 RT.	GRAND VIEW RD	15	DRIVEWAY
35+83 LT.	GRAND VIEW RD	25	LEDGEVIEW TERRACE
38+67 LT.	GRAND VIEW RD	15	DRIVEWAY
41+12 LT.	GRAND VIEW RD	15	DRIVEWAY
48+93 LT.	GRAND VIEW RD	10	DRIVEWAY
62+57	GRAND VIEW RD	25	MATCH POINT
101+00	HILL CREST RD	20	MATCH POINT
PROJECT TOTALS		165	

SAWING CONCRETE

690.0250

STATION	LOCATION	LF	DESCRIPTION
21+31 LT.	GRAND VIEW RD	21	DRIVEWAY
22+43 LT.	GRAND VIEW RD	21	DRIVEWAY
29+72 RT.	GRAND VIEW RD	18	DRIVEWAY
101+48 RT.	HILLCREST RD	51	DRIVEWAY
PROJECT TOTALS		111	

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CONSTRUCTION STAKING

STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB GUTTER AND CURB & GUTTER LF	650.6000 PIPE CULVERTS EA	650.9911 SUPPLEMENTAL CONTROL EA	650.9920 SLOPE STAKES LF
10+45 - 62+57	GRAND VIEW RD.	5215	5215	5385	18	1	5215
101+04 - 102+53	HILLCREST RD.	150	150	80	1	-	150
200+00 - 201+47.26	LEDGEVIEW TERRACE	150	150	-	-	-	150
PROJECT TOTALS		5515	5515	5465	19	1	5515

CULVERT PIPE ITEMS

STATION	LOCATION	521.3118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF	521.3124 CULVERT PIPE CORRUGATED STEEL 24-INCH LF	PIPE THICKNESS	522.2319 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS III 19X30- INCH LF	522.2324 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS III 24X38- INCH LF	522.2353 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS III 53X83- INCH LF	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EA	521.1024 APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH EA	522.2619 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS III 19X30- INCH EA	522.2624 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS III 24X38- INCH EA
STA. 10+25 LT	GRANDVIEW RD.	-	36	0.064	-	-	-	-	2	-	-
STA. 14+43 LT.	GRANDVIEW RD.	-	38	0.064	-	-	-	-	2	-	-
STA. 16+66 LT.	GRANDVIEW RD.	112	-	0.064	-	-	-	2	-	-	-
STA. 18+00 RT.	GRANDVIEW RD.	54	-	0.064	-	-	-	2	-	-	-
STA. 29+74 RT.	GRANDVIEW RD.	54	-	0.064	-	-	-	2	-	-	-
STA. 30+26 LT.	GRANDVIEW RD.	40	-	0.064	-	-	-	2	-	-	-
STA. 31+66 LT.	GRANDVIEW RD.	30	-	0.064	-	-	-	2	-	-	-
STA. 36+38 RT.	GRANDVIEW RD.	-	26	0.064	-	-	-	-	2	-	-
STA. 38+68 LT.	GRANDVIEW RD.	-	32	0.064	-	-	-	-	2	-	-
STA. 41+12 LT.	GRANDVIEW RD.	-	34	0.064	-	-	-	-	2	-	-
STA. 42+73 LT.	GRANDVIEW RD.	-	38	0.064	-	-	-	-	2	-	-
STA. 44+28	GRANDVIEW RD.	-	-	0.064	-	-	84	-	-	-	-
STA. 44+34	GRANDVIEW RD.	-	-	0.064	-	-	84	-	-	-	-
STA. 48+93 LT.	GRANDVIEW RD.	26	-	0.064	-	-	-	2	-	-	-
STA. 52+50	GRANDVIEW RD.	-	-	-	48	-	-	-	-	2	-
STA. 53+26 LT.	GRANDVIEW RD.	-	-	-	24	-	-	-	-	2	-
STA. 60+83	GRANDVIEW RD.	-	-	-	-	48	-	-	-	-	2
STA. 60+89	GRANDVIEW RD.	-	-	-	-	48	-	-	-	-	2
	PROJECT TOTALS	316	204		72	96	168	12	12	4	4

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EROSION CONTROL ITEMS

STATION	LOCATION	628.1104 EROSION BALES EA	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7005 INLET PROTECTION TYPE A EA	628.7015 INLET PROTECTION TYPE C EA	628.7555 CULVERT PIPE CHECKS EA	628.7560 TRACKING PADS EA	628.7570 ROCK BAGS EA	SPV.0195.01 TEMPORARY STONE DITCH CHECKS TON
9+00 - 22+50	GRAND VIEW RD.	15	860	860	-	16	20	1	-	132
22+50 - 36+40	GRAND VIEW RD.	50	-	-	-	21	9	-	-	77
36+40 - 62+70	GRAND VIEW RD.	170	1487	1487	1	2	60	-	-	-
101+00 - 101+50	HILLCREST DR.	15	-	-	-	-	5	1	-	-
STOCKPILE	TOWN OF ELLINGTON	-	700	700	-	-	-	1	-	-
UNDISTRIBUTED	GRAND VIEW RD.	50	153	153	-	1	26	-	50	21
	PROJECT TOTALS	300	3200	3200	1	40	120	3	50	230

LANDSCAPING SUMMARY

STATION	LOCATION	625.0100 TOPSOIL S.Y.	625.0500 SALVAGED TOPSOIL S.Y.	627.0200 MULCHING SY	628.2004 EROSION MAT CLASS I TYPE B SY	629.0205 FERTILIZER TYPE A CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
9+00 - 22+50	GRAND VIEW RD.	715	6960	7723	745	5.3	348	34	229	25
22+50 - 36+40	GRAND VIEW RD.	1020	7014	9050	550	6.0	407	25	259	30
36+40 - 62+70	GRAND VIEW RD.	2246	11298	10745	2752	8.5	484	124	364	45
101+00 - 101+50	HILLCREST DR.	250	500	586	160	0.5	-	7	4	5
** 'STOCKPILE	TOWN OF ELLINGTON	-	4840	4840	-	3.5	218	-	131	5
	PROJECT TOTALS	4231	30612	32944	4207	24	1457	190	987	110

NOTE:TOPSOIL AND SEED MIX NO. 40 REQUIRED AT LOCATIONS WHERE A LAWN TYPE SURFACE IS REQUIRED.

** USE TOPSOIL STOCKPILE AT THE TOWN STOCKPILE SITE. TOPSOIL RESTORATION AT THE STOCKPILE SITE TO BE MEASURED AND PAID FOR AS SALVAGED TOPSOIL.

STORM SEWER PIPES

FROM	-	TO	LOCATION	608.6012 STORM SEWER PIPE COMPOSITE 12-INCH LF	608.3624 STORM SEWER PIPE CLASS III-B 24-INCH LF	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
	-					914.92	914.70	0.0061
INL 14 MEDIAN GRATE 2	-	AEW 14A	GRAND VIEW ROAD SEC LINE	5	-	914.23	914.00	-0.0442
INL 1A	-	INL 1B	GRAND VIEW ROAD SEC LINE	10	-	923.69	923.19	-0.0500
INL 1B	-	AEW 1	GRAND VIEW ROAD SEC LINE	14	-	923.19	922.47	-0.0500
INL 2A	-	INL 2B	GRAND VIEW ROAD SEC LINE	10	-	922.98	922.78	-0.0200
INL 2B	-	AEW 2	GRAND VIEW ROAD SEC LINE	28	-	920.43	917.84	-0.0919
INL 3A	-	INL 3B	GRAND VIEW ROAD SEC LINE	10	-	950.82	950.32	0.0500
INL 3B	-	AEW 3	GRAND VIEW ROAD SEC LINE	19	-	950.32	949.38	0.0500
INL 4A	-	INL 4B	GRAND VIEW ROAD SEC LINE	10	-	949.67	948.70	0.0970
INL 4B	-	AEW 4	GRAND VIEW ROAD SEC LINE	27	-	948.70	945.98	0.1000
INL 5A	-	INL 5B	GRAND VIEW ROAD SEC LINE	10	-	984.91	984.41	0.0500
INL 5B	-	AEW 5	GRAND VIEW ROAD SEC LINE	22	-	984.41	982.80	0.0736
INL 6A	-	INL 6B	GRAND VIEW ROAD SEC LINE	10	-	983.41	982.41	0.1000
INL 6B	-	AEW 6	GRAND VIEW ROAD SEC LINE	28	-	982.41	979.58	0.1000
INL 7A	-	INL 7B	GRAND VIEW ROAD SEC LINE	10	-	975.68	974.68	-0.1000
INL 7B	-	AEW 7	GRAND VIEW ROAD SEC LINE	28	-	974.68	971.87	-0.1000
INL 8A	-	INL 8B	GRAND VIEW ROAD SEC LINE	10	-	975.68	974.68	-0.1000
INL 8B	-	AEW 8	GRAND VIEW ROAD SEC LINE	37	-	974.68	971.63	-0.0825
INL 9A	-	INL 9B	GRAND VIEW ROAD SEC LINE	10	-	946.28	945.38	-0.0900
INL 9B	-	AEW 9	GRAND VIEW ROAD SEC LINE	27	-	945.38	942.65	-0.1000
INL 10A	-	INL 10B	GRAND VIEW ROAD SEC LINE	10	-	946.28	945.38	-0.0900
INL 10B	-	AEW 10	GRAND VIEW ROAD SEC LINE	26	-	945.38	943.54	-0.0700
INL 11A	-	INL 11B	GRAND VIEW ROAD SEC LINE	10	-	928.15	927.65	-0.0500
INL 11B	-	AEW 11	GRAND VIEW ROAD SEC LINE	16	-	927.65	927.34	-0.0200
INL 12A	-	INL 12B	GRAND VIEW ROAD SEC LINE	10	-	928.66	928.56	0.0100
INL 12B	-	AEW 12	GRAND VIEW ROAD SEC LINE	19	-	928.56	928.37	0.0100
INL 13A	-	AEW 14	GRAND VIEW ROAD SEC LINE	21	-	917.00	916.23	0.0375
INL 14 MEDIAN GRATE 2	-	AEW 14B	GRAND VIEW ROAD SEC LINE	-	88	912.00	911.56	0.0050
INL 15A	-	INL 15B	GRAND VIEW ROAD SEC LINE	10	-	914.80	914.60	0.0200
INL 15B	-	AEW 15B	GRAND VIEW ROAD SEC LINE	13	-	914.60	914.54	0.0050
INL 16A	-	INL 16B	GRAND VIEW ROAD SEC LINE	108	-	968.94	960.36	0.0975
INL 16B	-	AEW 16	GRAND VIEW ROAD SEC LINE	33	-	960.36	957.06	0.1000
			TOTALS	601	88			

TEMPORARY WATER DIVERSION

SPV.0060.01
TEMPORARY WATER
DIVERSION DUAL 53-INCH x
83-INCH CULVERT PIPES
STATION 44+25

STATION	LOCATION	EACH
44+25	GRAND VIEW RD.	1
	PROJECT TOTAL	1

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STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	LOCATION	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH EACH	521.1505 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 4 TO 1 EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	(1) 611.0645 INLET COVERS TYPE MS-A EACH	611.3230 INLETS 2X3-FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM** ELEVATION	INVERT*** ELEVATION	DEPTH**** FT
AEW 1	11+37.84	25.43' RT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	922.47	-
AEW 2	11+35.23	41.30' LT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	918.84	-1.43	0.51
AEW 3	14+91.96	31.32' RT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	949.38	-
AEW 4	14+93.39	41.95' LT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	945.99	-
AEW 5	18+38.36	35.53' RT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	982.80	-
AEW 6	18+35.75	41.43' LT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	979.58	-
AEW 7	26+01.56	45.09' RT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	972.83	0.00	0.47
AEW 8	26+24.01	45.12' LT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	971.63	-
AEW 9	29+05.56	43.76' RT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	942.65	-
AEW 10	29+14.44	38.97' LT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	943.54	-
AEW 11	32+06.66	31.02' RT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	927.34	-
AEW 12	32+15.85	27.05' LT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	928.37	-
AEW 14	35+26.97	43.37' LT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	916.23	-
AEW 14A	36+64.97	45.75' LT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	914.23	-
AEW 14B	37+52.41	36.50' LT	GRAND VIEW ROAD SEC LINE	-	1	-	-	-	-	1	-	911.56	-
AEW 15B	36+85.58	34.46' RT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	914.54	-
AEW 16	16+00.20	40.04' LT	GRAND VIEW ROAD SEC LINE	1	-	-	-	-	-	1	-	957.06	-
INL 1A	11+59.50	16.99' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	926.98	923.69	2.30
INL 1B	11+49.50	16.99' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	926.43	923.19	2.24
INL 2A	11+59.50	17.01' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	926.98	922.98	3.01
INL 2B	11+49.50	17.01' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	926.43	920.43	5.00
INL 3A	15+14.12	17.00' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	955.67	950.82	3.86
INL 3B	15+04.12	17.00' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	954.70	950.32	3.38
INL 4A	15+14.12	17.00' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	955.67	949.67	5.01
INL 4B	15+04.12	17.00' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	954.70	948.70	5.00
INL 5A	18+60.00	17.00' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	989.33	984.91	3.42
INL 5B	18+50.00	17.00' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	988.41	984.41	3.00
INL 6A	18+60.00	17.00' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	989.33	983.41	4.92
INL 6B	18+50.00	17.00' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	988.41	982.41	5.00
INL 7A	25+90.00	17.00' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	981.63	975.64	4.99
INL 7B	26+00.00	17.00' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	980.64	974.64	5.00
INL 8A	25+90.00	17.00' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	981.67	975.68	5.00
INL 8B	26+00.00	17.00' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	980.68	974.68	5.01
INL 9A	28+90.00	17.00' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	952.28	946.28	5.01
INL 9B	29+00.00	17.00' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	951.38	945.38	5.00
INL 10A	28+90.00	17.00' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	952.28	946.28	5.01
INL 10B	29+00.00	17.00' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	951.38	945.38	5.00
INL 11A	31+89.99	17.00' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	932.05	928.15	2.91
INL 11B	31+99.99	17.00' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	931.60	927.65	2.95
INL 12A	31+89.99	17.00' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	932.05	928.66	2.40
INL 12B	31+99.99	17.00' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	931.60	928.56	2.04
INL 13A	35+25.03	22.86' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	921.00	917.00	3.01
INL 14 MEDIAN GRATE 2	36+65.00	40.50' LT	GRAND VIEW ROAD SEC LINE	-	-	-	2	-	1	1	916.00	912.00	4.00
INL 15A	36+67.97	24.00' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	917.80	914.80	2.00
INL 15B	36+77.97	24.00' RT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	917.11	914.60	1.51
INL 16A	17+31.52	17.01' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	976.86	970.86	6.00
INL 16B	16+23.78	17.01' LT	GRAND VIEW ROAD SEC LINE	-	-	1	-	1	-	1	966.36	960.14	5.22
			TOTALS	16	1	29	2	29	1	47			

REMARKS:

*STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

**RIM ELEV IS AT THE INLET COVER FLANGE LOCATION

***FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

****DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT

(1) NO SLOPE ON INLET COVERS

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CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE, AND OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMP. LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
BRIDGE

PARCEL NUMBER 25
UTILITY NUMBER 40
SECTION CORNER
R/W MONUMENT
NON-MONUMENTED R/W TLE OR PLE POINT
NOTATION FOR COMBUSTABLE FLUIDS — CAUTION
FOUND IRON PIN IP
VALVE (GAS, WATER, ETC.) (TYPE)
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES — CAUTION
SIGN
OFF-PREMISE SIGN #1-25 SIGN

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
PARALLEL OFFSETS

- CENTERLINE OF DITCH
- CULVERT PIPE
- GUARD RAIL
- EDGE OF WOODED AREA
- EXISTING TREE
- MAIL BOX
- FLAG POLE

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	

	NON-COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
UTILITY PEDESTAL		

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 ABBREVIATIONS

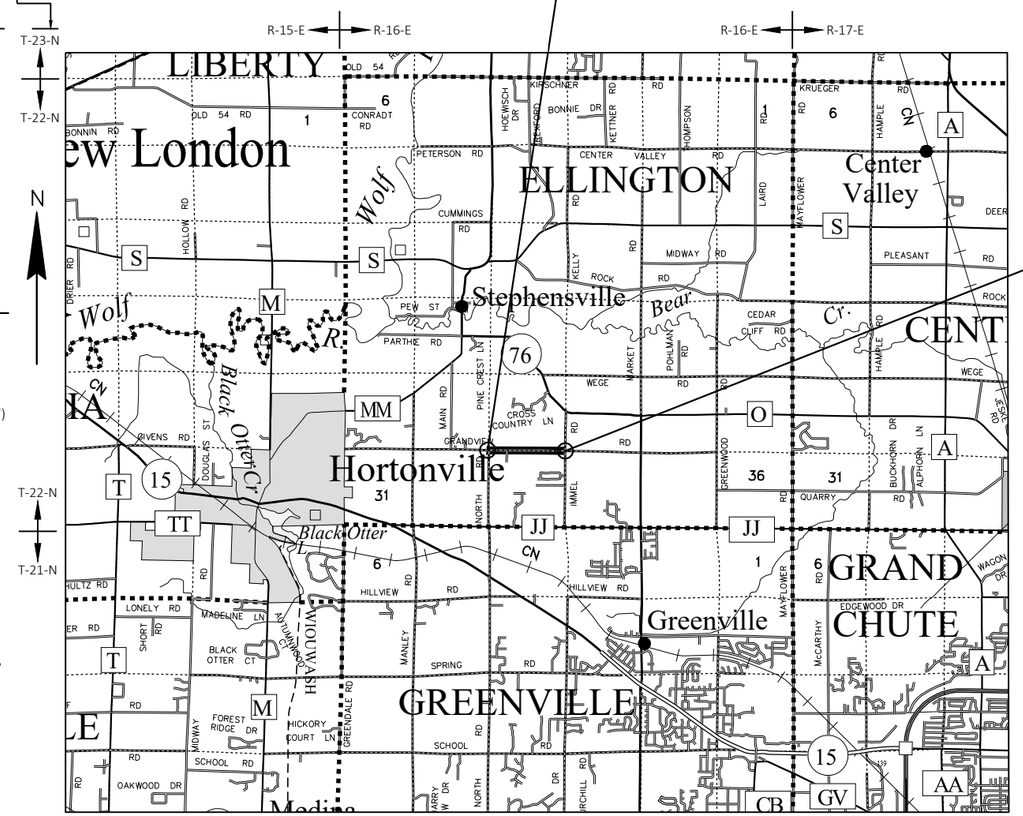
ACCESS RIGHTS	AR	NUMBER	NO
ACRES	AC	OUTLOT	OL
AHEAD	AH	PAGE	P
ALUMINUM	ALUM	POINT OF TANGENCY	PT
ASPHALT	ASPH	PROPERTY LINE	P/L
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
BUILDING	BLDG	PERMANENT LIMITED EASEMENT	PLE
CENTERLINE	C/L	POINT OF BEGINNING	POB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

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), OUTAGAMIE COUNTY, NAD83 1991 IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" X 18" REBAR) AND ARE PLACED PRIOR TO OR AT THE TIME OF LAND TITLE TRANSFER.

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.



GRANDVIEW ROAD
BEGIN RELOCATION ORDER STA 9+00.00
Y = 592583.913 X = 782696.298
2.76' NORTH AND 99.96 WEST OF THE
NORTHWEST CORNER OF SECTION 33,
TOWNSHIP 22 NORTH, RANGE 16 EAST

GRANDVIEW ROAD
END RELOCATION ORDER STA 62+93.39
Y = 592531.668 X = 788089.335
1.17' NORTH AND 4.06' WEST OF THE
NORTHEAST CORNER OF SECTION 33,
TOWNSHIP 22 NORTH, RANGE 16 EAST

CAUTION:
THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.

TOTAL NET LENGTH OF CENTERLINE GRANDVIEW ROAD = 1.021 MILES

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. TLE AREAS ARE TO THE FACE OF THE BUILDING FOR SLOPING, NOT WITHIN THE BUILDING.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
6508-01-01	4.01	16
R/W PROJECT NUMBER		

PLAT OF RIGHT OF WAY REQUIRED FOR

GRANDVIEW ROAD
NORTH ROAD TO IMMEL ROAD

GRANDVIEW ROAD	OUTAGAMIE COUNTY

ORIGINAL PLANS PREPARED BY MCMAHON

WISCONSIN
DOUGLAS E. WOELZ
S-2327
KAUKAUNA WI
LAND SURVEYOR

6-5-24 Douglas E Woelz
DATE SIGNATURE

REVISION DATE
09/20/2024
10/22/2024
11/7/2024
12/4/2024
12/17/2024
01/16/2025
02/27/2025

TOWN OF ELLINGTON

DATE: 6-5-24 Joe Schumacher (Signature)

Joe Schumacher (Print Name)

SCHEDULE OF LAND & INTEREST REQUIRED

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	TAX PARCEL NUMBER	INTEREST REQUIRED	TOTAL ACRES	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TOTAL ACRES REMAINING	PLE SQ. FT.	TLE SQ. FT.
1	4.04	Sursum Corda Irrevocable Trust dated February 15, 2011	080072603	PLE	33.53	0.000	0.000	0.000	33.530	588	
3	4.04	David K. Gassner and Jennifer A. Gassner, husband and wife	080083202	PLE	5.03	0.000	0.000	0.000	5.030	2,057	
4	4.05, 4.06	John E. Baumgart	080083200	PLE	7.97	0.000	0.000	0.000	7.970	9,218	
6	4.06, 4.16	Michael Hofacker	080083100	PLE/TLE	2.50	0.000	0.000	0.000	2.500	357	10,394
7	4.04	Gregory A. Plamann and Brenda J. Plamann, husband and wife	080069103	PLE	11.54	0.000	0.000	0.000	11.540	1,188	
8	4.04, 4.05	David C. Westphal and Tammy J. Westphal, husband and wife	080069102	PLE/TLE	10.00	0.000	0.000	0.000	10.000	20,729	1,617
9	4.05, 4.06	Daniel G. Ebben and Elizabeth M. Ebben, husband and wife	080069100	FEE/PLE	13.89	0.196	0.273	0.469	13.421	4,828	
11	4.06, 4.16	Brian B. Downie and Kristin E. Downie, husband and wife	080069300	PLE	1.17	0.000	0.000	0.000	1.170		
12	4.06, 4.16	Richard R. Boyd and Rhonda L. Boyd, husband and wife, as Survivorship Marital Property	080069200	TLE	2.35	0.000	0.000	0.000	2.350		5,014
13	4.07, 4.16	Richard J. Mollner	080068975	TLE	2.48	0.000	0.000	0.000	2.480		1,944
14	4.07	Richard J. Mollner	080068977	PLE	1.04	0.000	0.000	0.000	1.040	2,266	
16	4.07, 4.08, 4.09	Grandview Terrace Covenants, Outlot and Detention Pond Association, Inc., a Wisconsin corporation	080068940	PLE	4.55	0.000	0.000	0.000	4.550	9,112	
17	4.08, 4.09	Gregory A. Plamann and Brenda J. Plamann, husband and wife, as Survivorship Marital Property	080069400	PLE	5.69	0.000	0.000	0.000	5.690	4,614	
19	4.06, 4.07, 4.16	Paul W. DeSpirito and Rebecca L. DeSpirito, husband and wife, as Survivorship Marital Property	080083305	PLE/TLE	2.45	0.000	0.000	0.000	2.450	991	4,551
20	4.07, 4.08	Joseph A. Lippert and Mary E. Lippert Revocable Trust dated December 28, 2005	080083000	PLE/TLE	17.41	0.000	0.000	0.000	17.410	28,278	826
21	4.08, 4.09	Joseph A. Lippert and Mary E. Lippert Revocable Trust dated December 28, 2005	080082900	PLE	20.00	0.000	0.000	0.000	20.000	14,142	
22	4.09, 4.10, 4.11, 4.12	Joseph A. Lippert and Mary E. Lippert Revocable Trust dated December 28, 2005	080082500	PLE/TLE	38.75	0.000	0.000	0.000	38.750	16,006	6,117
23	4.11, 4.12	Joseph Lippert and Carol Plamann, as equal tenants in common	080082502	PLE/TLE	1.25	0.000	0.000	0.000	1.250	3,885	5,591
24	4.12, 4.13, 4.14, 4.15	Joseph A. Lippert and Mary E. Lippert Revocable Trust dated December 28, 2005	080082400	PLE	40.00	0.000	0.000	0.000	40.000	6,685	
27	4.09, 4.10	Robin D. Reitzner	080069804	PLE	6.24	0.000	0.000	0.000	6.240	1,939	
28	4.10	Robin D. Reitzner	080069801	PLE	3.56	0.000	0.000	0.000	3.560	3,410	
29	4.10	Craig A. Spindler and Michelle L. Spindler, husband and wife, as Survivorship Marital Property	080069800	PLE	11.67	0.000	0.000	0.000	11.670	726	
31	4.10, 4.11	Spencer T. McGowan and Joan M, McGowan, husband and wife, as Survivorship Marital Property	080069803	PLE/TLE	3.50	0.000	0.000	0.000	3.500	6,216	3,500
32	4.11, 4.12	Spencer T. McGowan and Joan M, McGowan, husband and wife, as Survivorship Marital Property	080069805	PLE/TLE	2.55	0.000	0.000	0.000	2.550	6,159	3,984
33	4.12	James G. Becher and Jane M. Becher, husband and wife, as Survivorship Marital Property	080069802	PLE	4.56	0.000	0.000	0.000	4.560	6,749	
34	4.12, 4.13, 4.14, 4.15	Penelope Lemke Ort and Cindy Countney, as equal tenants-in-common, subject to Life Estate vested in Darlene R. Lemke	080070000	PLE	21.22	0.000	0.000	0.000	21.220	12,832	
36	4.15	Benjamin J. Zirbel and Kimberly D. Zirbel, husband and wife, as Survivorship Marital Property	080070100	PLE	1.27	0.000	0.000	0.000	1.270	708	

50	4.04-4.16	WE-Energies (Electric)		RELEASE OF RIGHTS							
51	4.09-4.15	AT&T		RELEASE OF RIGHTS							
52	4.05	WE-Energies (Gas)		RELEASE OF RIGHTS							

OWNER'S NAME ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE TOWN.

4

4

REVISION DATE
01/16/2025
02/27/2025

DATE

GRID FACTOR

SCALE, FEET
0

HWY: GRANDVIEW ROAD
COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 6508-01-01
CONSTRUCTION PROJECT NUMBER 6508-01-71

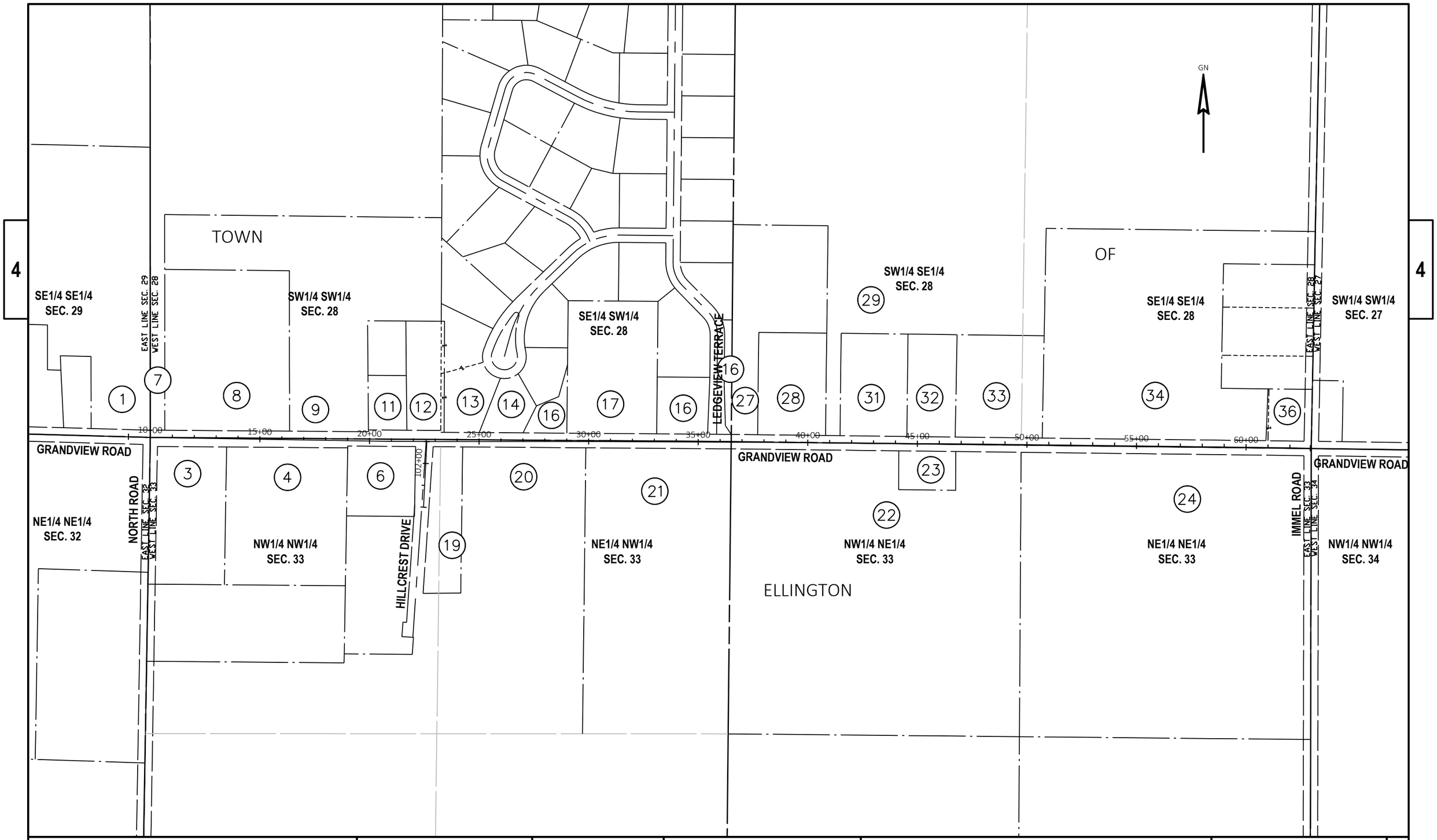
PLAT SHEET 4.02
PS&E SHEET 45

E

FILE NAME : GRANDVIEW RD RW PLAT SOI.DWG
LAYOUT NAME - Sheet - (1)

PLOT DATE : 2/27/2025 9:45 AM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 75



REVISION DATE	DATE	SCALE, FEET 0 200 400	HWY: GRANDVIEW ROAD	STATE R/W PROJECT NUMBER 6508-01-01	PLAT SHEET 4. 03
	GRID FACTOR		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 6508-01-71	PS&E SHEET — 46 E

FILE NAME : GRANDVIEW ROAD LAYOUT.DWG
LAYOUT NAME - RW 1 IN 400 FT

PLOT DATE : 1/16/2025 12:13 PM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : 400

WISDOT/CADDS SHEET 75

SE1/4 SE1/4
SEC. 29

1

LOT 2 CSM NO. 7973

PARCEL NO. 080072603
OWNER: SURSUM CORDA IRREVOCABLE
TRUST DATED FEBRUARY 15, 2011

N57° 40' 31"E
19.69'

9+82.22
40.00' PLE

588 S.F. PLE FOR GRADING, DRAINAGE
CONSTRUCTION & MAINTENANCE

SECTION LINE

TOWN

7

PARCEL NO. 080069103
OWNER: GREGORY A. &
BRENDA J. PLAMANN

UNPLATTED LANDS

9+98.56
50.98' PLE

P/L

OF

SW1/4 SW1/4
SEC. 28

8

PARCEL NO. 080069102
OWNER: DAVID C. & TAMMY J. WESTPHAL

UNPLATTED LANDS

13+17.41
62.43' PLE

1188 S.F. PLE FOR GRADING, DRAINAGE
CONSTRUCTION & MAINTENANCE

10+65.13
51.59' PLE

SLOPE INTERCEPT

N75° 42' 17"E
252.51'

S88° 25' 14"E
54.19'

9+28.03
40.00' PLE

S89° 34' 57"E
66.00'

N88° 28' 31"E

20729 S.F. PLE FOR GRADING, DRAINAGE
CONSTRUCTION & MAINTENANCE

N01° 34' 46"E
7.00'

R/W

9+28.03
33.00' PLE

N88° 25' 14"W
71.63'

N89° 34' 57"W

994.69'

114
3/4" REBAR

S/L-S89° 34' 57"E 2650.32'
NORTH LINE NW¼ SEC 33-22-16

33.0'

4

MAG NAIL W/ BRASS
WASHER FOUND
Y=592654.107
X=780150.587

ASPH

SECTION LINE

R/L-S88° 25' 14"E 100.00'

GRANDVIEW ROAD

STA 13+50

MATCH LINE

2350.33'

R/L-S89° 03' 54"E 1100.00'

299.99'

11

12

13

REF LINE
GRANDVIEW ROAD
STA-13+00.00
Y-592576.261
X-783096.220

S00°25'03"W
2.71'

41.25'

MAG NAIL W/ BRASS
WASHER FOUND
Y=592561.847
X=785446.508

113
3/4" REBAR

GUY

11+13.73
40.22' PLE

115
3/4" REBAR

S89° 34' 57"E
80.74'

S89° 34' 57"E

787.42'

116
1" IP

N00° 25' 03"E
8.75'

R/W

N89° 34' 57"W

235.01'

N00° 57' 05"E
4.00'

2057 S.F. PLE FOR GRADING, DRAINAGE
CONSTRUCTION & MAINTENANCE

SLOPE INTERCEPT

13+48.80
46.85' PLE

11+13.80
48.97' PLE

BEGIN RELOCATION ORDER
STA-9+00.00
Y-592583.913
X-782696.298

NORTH ROAD

GRAVEL SHOULDER

SECTION LINE

ASPH

R/W

33.0'

33.0'

REF LINE PI
MAG NAIL W/ BRASS
WASHER FOUND
STA-10+00.00 0.00'
Y-592581.157
X-782796.257

3

PARCEL NO. 080083202
OWNER: DAVID K. & JENNIFER A. GASSNER

LOT 3 CSM NO. 7910

NE1/4 NE1/4
SEC. 32

NW1/4 NW1/4
SEC. 33

ELLINGTON

OUTAGAMIE
COUNTY

50

UTILITY EASEMENT TO WISCONSIN MICHIGAN POWER COMPANY
PER VOL. 211 PAGE 491 DESCRIBED ALONG THE SOUTH SIDE OF THE HIGHWAY.
(NO SPECIFIC EASEMENT WIDTH DESCRIBED - 5' TREE CLEARING RIGHTS)

EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
113	592549.227	782762.892	3/4" REBAR
114	592614.130	782862.438	3/4" REBAR
115	592539.982	782828.551	3/4" REBAR
116	592537.291	783144.583	1" IP

REVISION DATE

DATE

GRID FACTOR

SCALE, FEET
0 20 40

HWY: GRANDVIEW ROAD

COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 6508-01-01

CONSTRUCTION PROJECT NUMBER 6508-01-71

PLAT SHEET 4. 04

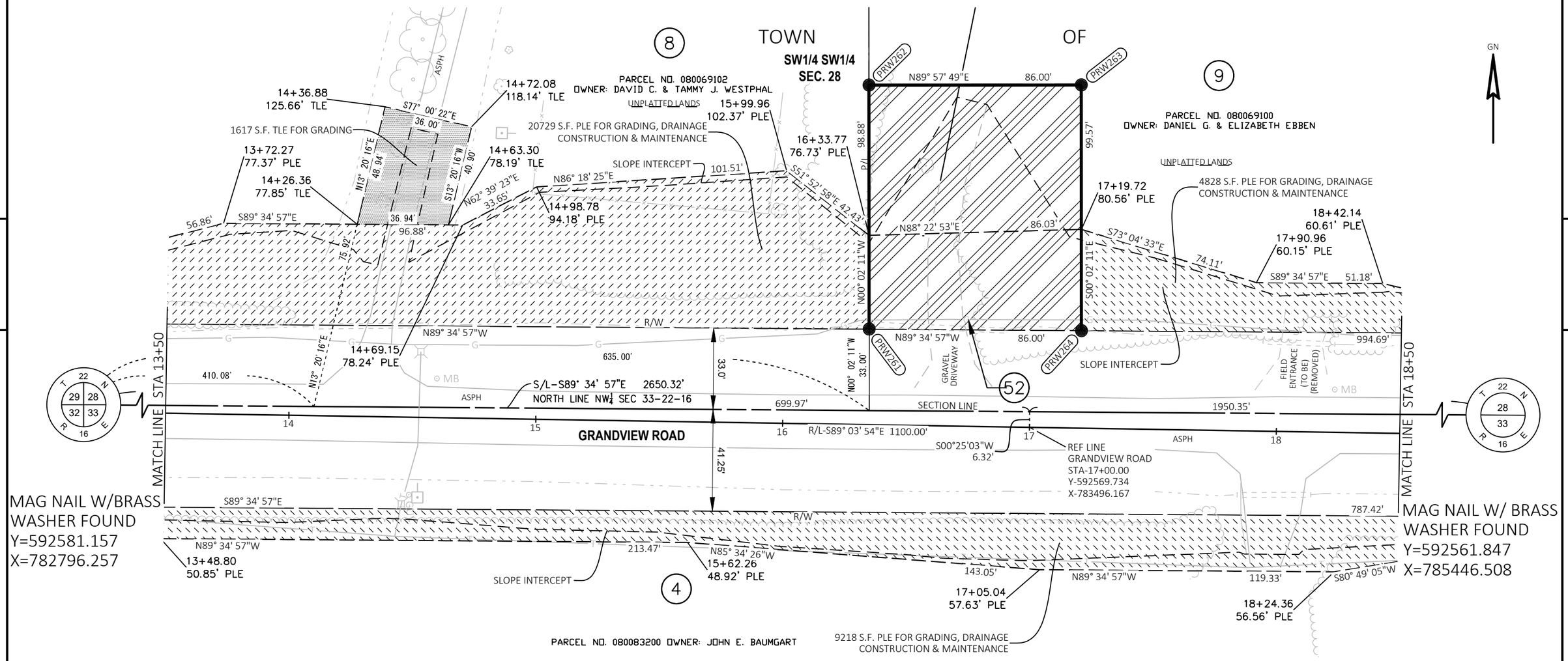
PS&E SHEET 47

E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\GRANDVIEW RD RW PLAT.DWG
LAYOUT NAME - 4.04

PLOT DATE : 1/16/2025 12:14 PM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 75



POINT	ALIGNMENT	STATION	OFFSET	YCOORDS	XCOORDS
PRW261	GRANDVIEW ROAD	16+34.41	38.73	592609.531	783431.219
PRW262	GRANDVIEW ROAD	16+32.74	137.60	592708.415	783431.157
PRW263	GRANDVIEW ROAD	17+18.72	139.06	592708.470	783517.157
PRW264	GRANDVIEW ROAD	17+20.41	39.51	592608.905	783517.220

REVISION DATE
12/7/2024
02/27/2025

DATE

GRID FACTOR

SCALE, FEET
0 20 40

HWY: GRANDVIEW ROAD

COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 6508-01-01

CONSTRUCTION PROJECT NUMBER 6508-01-71

PLAT SHEET 4. 05

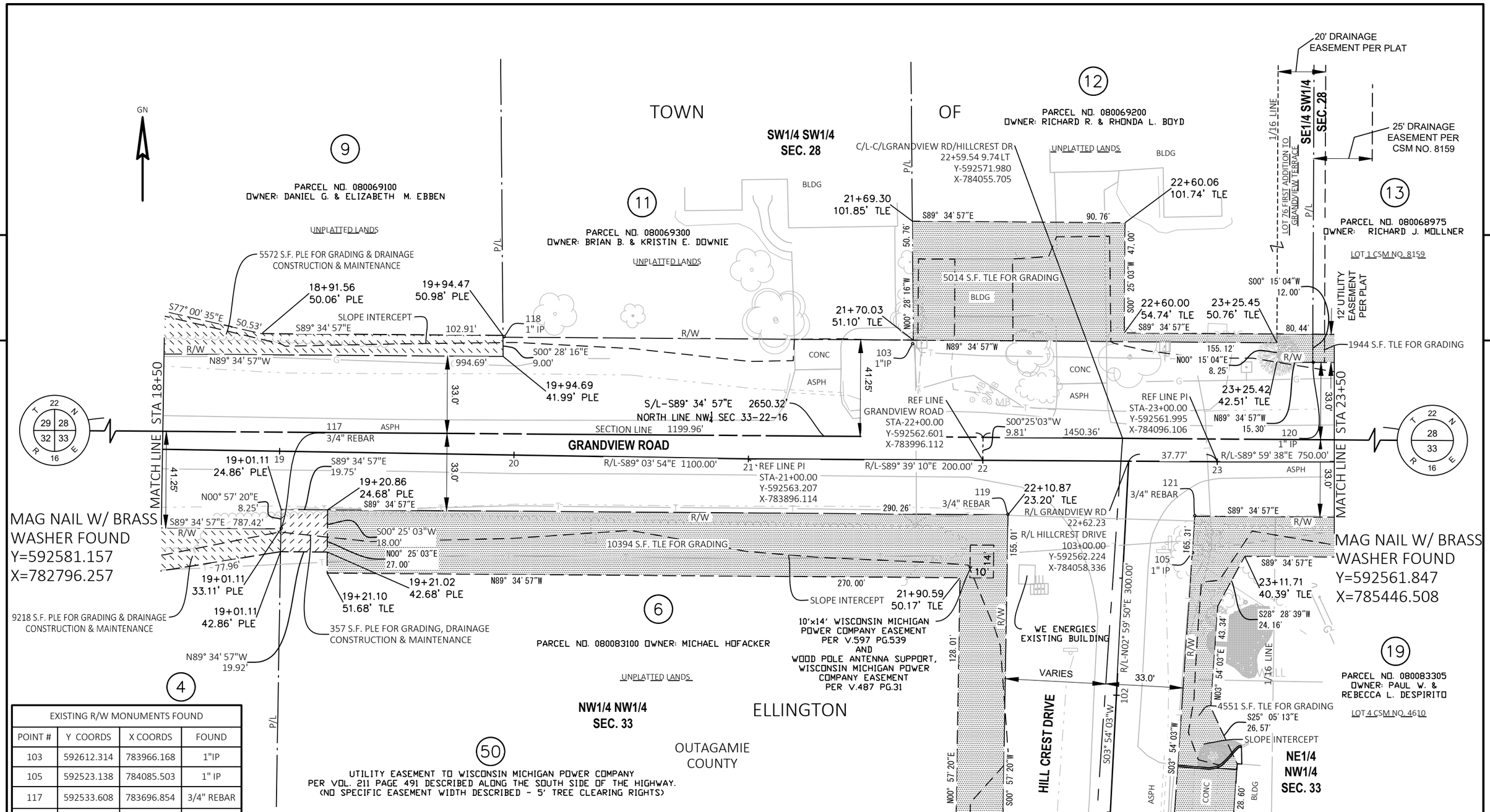
PS&E SHEET 48

E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\GRANDVIEW RD RW PLAT.DWG
LAYOUT NAME - 4.05

PLOT DATE : 2/27/2025 9:42 AM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 75



EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
103	592612.314	783966.168	1"IP
105	592523.138	784085.503	1" IP
117	592533.608	783696.854	3/4" REBAR
118	592615.301	783791.899	1" IP
119	592539.510	784006.801	3/4" REBAR
120	592604.426	784137.039	1" IP
121	592538.960	784086.540	3/4" REBAR

REVISION DATE

DATE

GRID FACTOR

SCALE, FEET 0 20 40

HWY: GRANDVIEW ROAD

COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 6508-01-01

CONSTRUCTION PROJECT NUMBER 6508-01-71

PLAT SHEET 4. 06

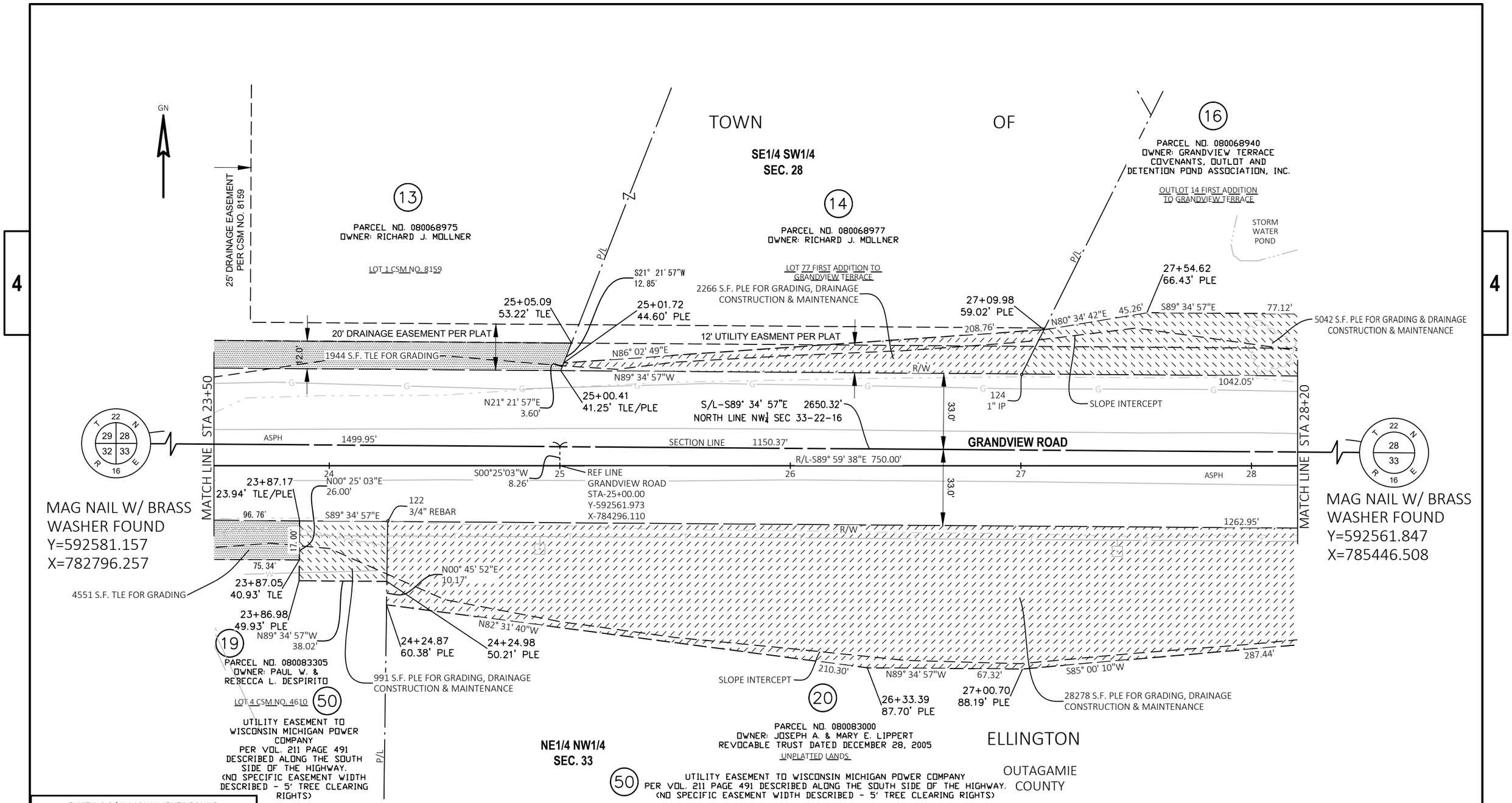
PS&E SHEET 49

E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\GRANDVIEW RD RW PLAT.DWG
LAYOUT NAME - 4.06

PLOT DATE : 1/16/2025 12:14 PM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 75



EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
122	592537.994	784221.517	3/4" REBAR
124	592601.485	784496.408	1" IP

REVISION DATE	DATE	SCALE, FEET 0 20 40	HWY: GRANDVIEW ROAD	STATE R/W PROJECT NUMBER 6508-01-01	PLAT SHEET 4. 07
	GRID FACTOR		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 6508-01-71	PS&E SHEET 50 E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\GRANDVIEW RD RW PLAT.DWG
LAYOUT NAME - 4.07
PLOT DATE : 1/16/2025 12:15 PM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

4

GN

TOWN OF ELLINGTON

OUTAGAMIE COUNTY

16

PARCEL NO. 080068940
OWNER: GRANDVIEW TERRACE COVENANTS, OUTLOT AND DETENTION POND ASSOCIATION, INC.

OUTLOT 14 FIRST ADDITION TO GRANDVIEW TERRACE

STORM WATER POND

P/L

28+31.74
65.88' PLE

28+51.26
70.21' PLE

5042 S.F. PLE FOR GRADING, DRAINAGE CONSTRUCTION & MAINTENANCE

20.00'
N77° 28' 50"E
S76° 02' 26"E
51.16'

29+00.91
57.88' PLE

SLOPE INTERCEPT

S86° 41' 07"E

LANDSCAPED AREA

N89° 34' 57"W

123
1" IP

S/L-S89° 34' 57"E 2650.32'
NORTH LINE NW¼ SEC 33-22-16

MATCH LINE STA 28+20

ASPH

2099.94'

29 R/L-S89° 59' 38"E 750.00' 30

33.0'

NE COR W½, NE¼ NW¼
SEC. 33-22-16

FIELD ENTRANCE

67.88'

S89° 34' 57"E

28278 S.F. PLE FOR GRADING, DRAINAGE CONSTRUCTION & MAINTENANCE

S00° 40' 19"W

287.44'

28.92'

29+58.24
65.64' TLE

N00° 25' 03"E
27.40'

29+58.04
93.04' TLE

S85° 00' 10"W

UNPLATTED LANDS

20

826 S.F. TLE FOR GRADING

N89° 34' 57"W
28.66'

EAST LINE W½, NE¼ NW¼
SEC. 33-22-16

P/L

PARCEL NO. 080083000
OWNER: JOSEPH A. & MARY E. LIPPERT REVOCABLE TRUST DATED DECEMBER 28, 2005

50

UTILITY EASEMENT TO WISCONSIN MICHIGAN POWER COMPANY PER VOL. 211 PAGE 491 DESCRIBED ALONG THE SOUTH SIDE OF THE HIGHWAY. (NO SPECIFIC EASEMENT WIDTH DESCRIBED - 5' TREE CLEARING RIGHTS)

MAG NAIL W/ BRASS WASHER FOUND
Y=592581.157
X=782796.257

SE1/4 SW1/4
SEC. 28

17

PARCEL NO. 080069400
OWNER: GREGORY A. & BRENDA J PLAMANN

LOT 1 CSM NO. 5421

LANDSCAPED AREA

4614 S.F. PLE FOR GRADING, DRAINAGE CONSTRUCTION & MAINTENANCE

30+68.51
48.26' PLE

S89° 34' 57"E

168.09'

R/W

GRAVEL DRIVEWAY

107.48'

31+75.98
47.97' PLE

S84° 12' 48"E

49.24'

32+24.99
43.23' PLE

S87° 58' 52"E

1042.05'

DISTRIBUTION EASEMENT UNDERGROUND TO WISCONSIN ELECTRIC POWER COMPANY PER DOCUMENT NUMBER 2208267

GRANDVIEW ROAD

S00°25'03"W
4.17'

SECTION LINE

N89° 34' 57"W 662.58'

550.38'

DRIVEWAY

R/L-S89° 44' 17"E 782.04 32

31

REF LINE PI
STA-30+50.00
Y-592561.914
X-784846.110

REF LINE
GRANDVIEW ROAD
STA-31+00.00
Y-592561.686
X-784896.109

MATCH LINE STA 32+90

ASPH

R/W

1262.95'

N89° 34' 57"W 155.15'

193.86'

N00° 40' 19"E
2.01'

S84° 13' 54"W

29+87.05
63.12' TLE/PLE

29+87.02
65.13' PLE

S00° 40' 19"W
30.12'

29+86.70
93.24' TLE

31+80.10
45.05' PLE

14142 S.F. PLE FOR GRADING, DRAINAGE CONSTRUCTION & MAINTENANCE

SLOPE INTERCEPT

21

NE1/4 NW1/4
SEC. 33

PARCEL NO. 080082900
OWNER: JOSEPH A. & MARY E. LIPPERT REVOCABLE TRUST DATED DECEMBER 28, 2005

UNPLATTED LANDS

50

UTILITY EASEMENT TO WISCONSIN MICHIGAN POWER COMPANY PER VOL. 211 PAGE 493 DESCRIBED ALONG THE SOUTH SIDE OF THE HIGHWAY. (NO SPECIFIC EASEMENT WIDTH DESCRIBED - 5' TREE CLEARING RIGHTS)

MAG NAIL W/ BRASS WASHER FOUND
Y=592561.847
X=785446.508

EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
123	592600.493	784697.126	1" IP

REVISION DATE _____

DATE _____

GRID FACTOR _____

SCALE, FEET 0 20 40

HWY: GRANDVIEW ROAD

COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 6508-01-01

CONSTRUCTION PROJECT NUMBER 6508-01-71

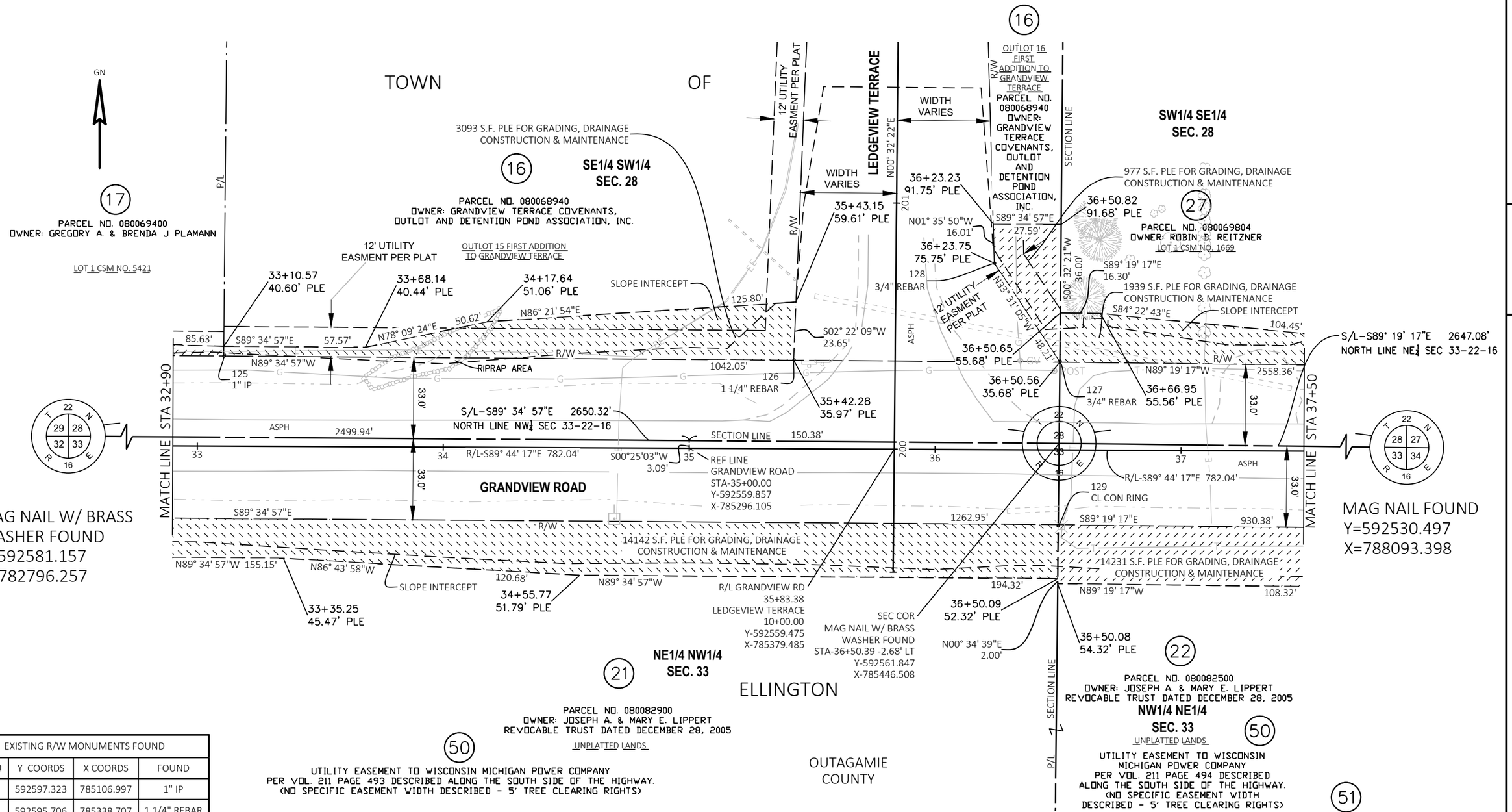
PLAT SHEET 4. 08

PS&E SHEET 51

E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\GRANDVIEW RD RW PLAT.DWG
LAYOUT NAME - 4.08

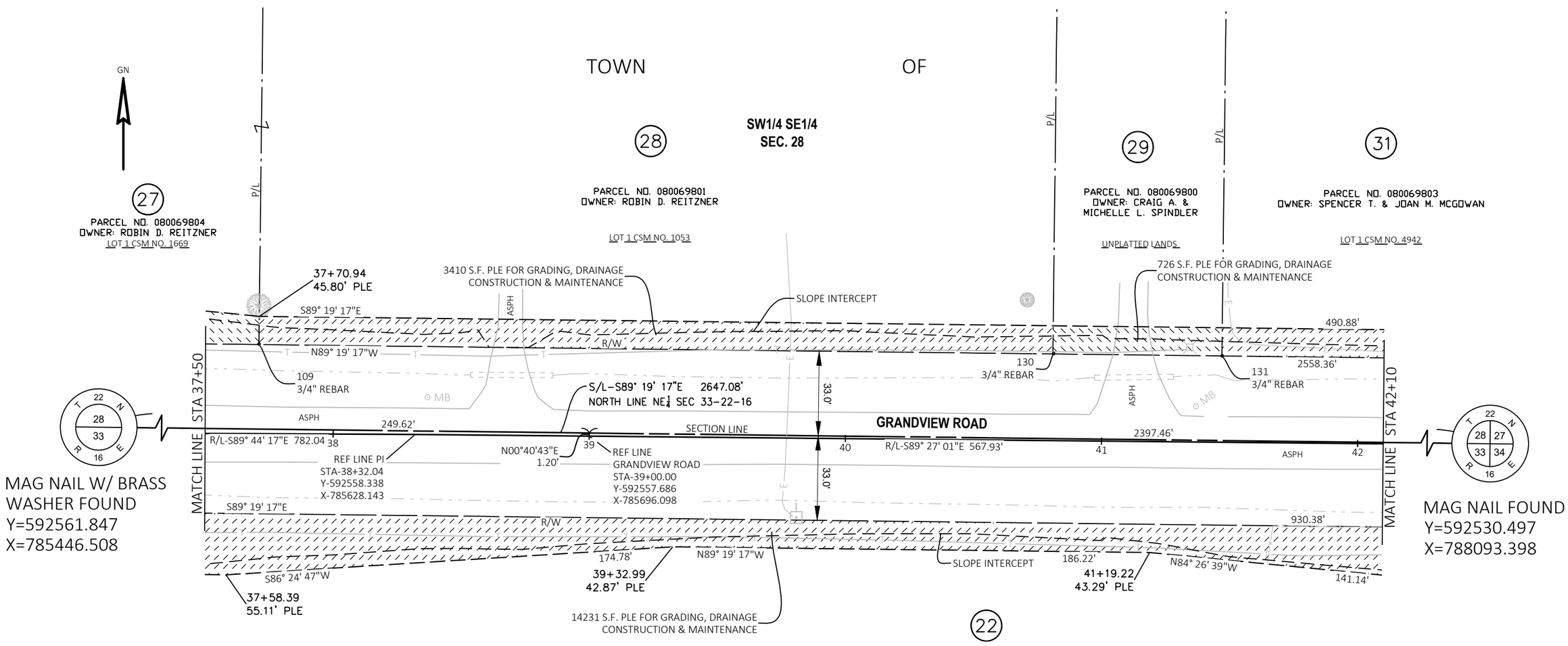
PLOT DATE : 1/16/2025 12:15 PM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########



EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
125	592597.323	785106.997	1" IP
126	592595.706	785338.707	1 1/4" REBAR
127	592595.226	785446.903	3/4" REBAR
128	592635.048	785420.270	3/4" REBAR
129	592528.306	785446.121	CL CON RING

REVISION DATE 10/22/2024	DATE	SCALE, FEET 0 20 40	HWY: GRANDVIEW ROAD	STATE R/W PROJECT NUMBER 6508-01-01	PLAT SHEET 4. 09
	GRID FACTOR		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 6508-01-71	PS&E SHEET 52 E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\GRANDVIEW RD RW PLAT.DWG
LAYOUT NAME - 4.09
PLOT DATE : 1/16/2025 12:15 PM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 75



4

4

EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
109	592593.580	785567.119	3/4" REBAR
130	592589.880	785877.319	3/4" REBAR
131	592589.026	785943.147	3/4" REBAR

REVISION DATE
10/22/2024

DATE

GRID FACTOR

SCALE, FEET
0 20 40

HWY: GRANDVIEW ROAD

COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER 6508-01-01

CONSTRUCTION PROJECT NUMBER 6508-01-71

PLAT SHEET 4. 10

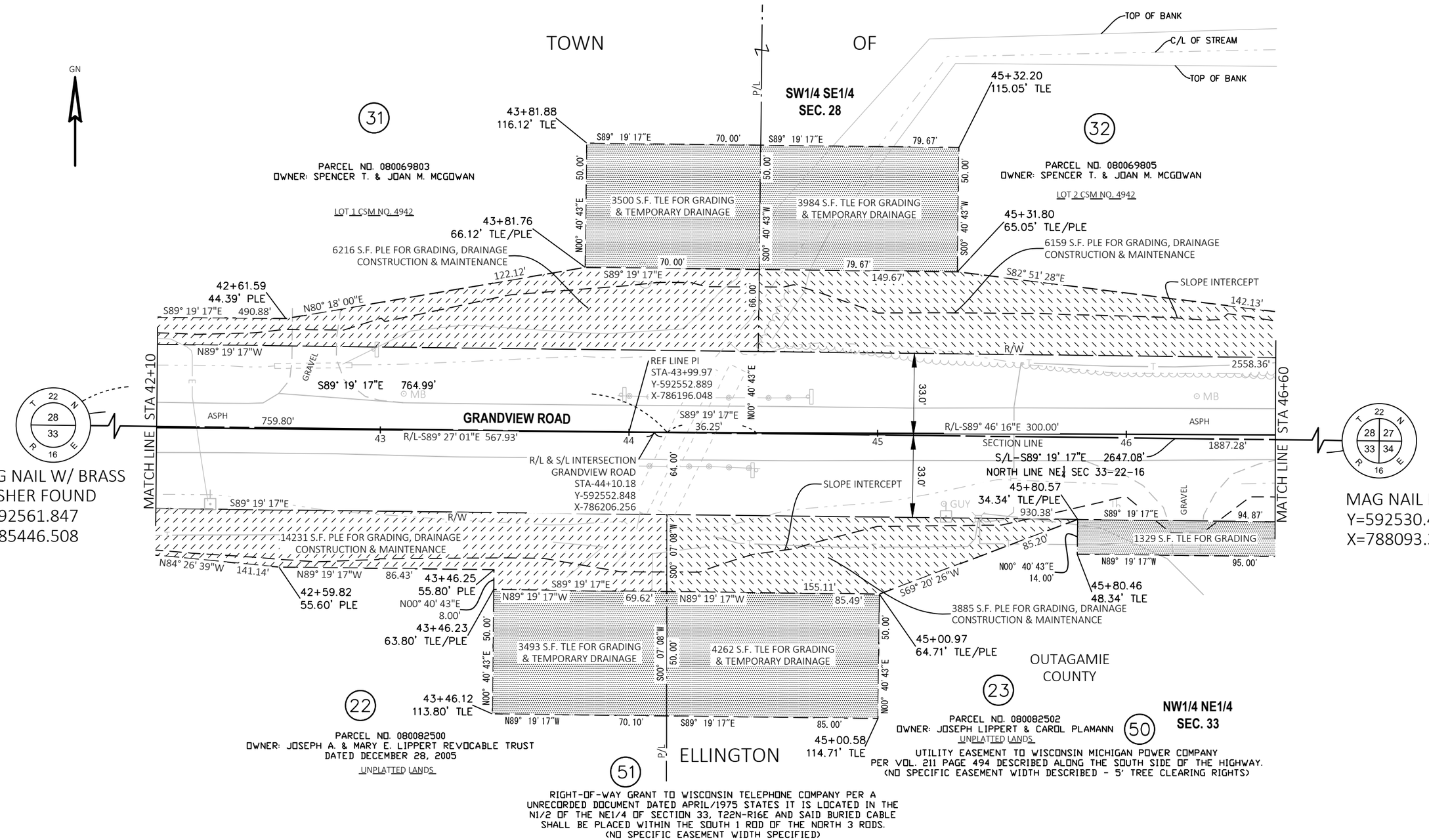
PS&E SHEET 53

E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\GRANDVIEW RD RW PLAT.DWG
LAYOUT NAME - 4.10

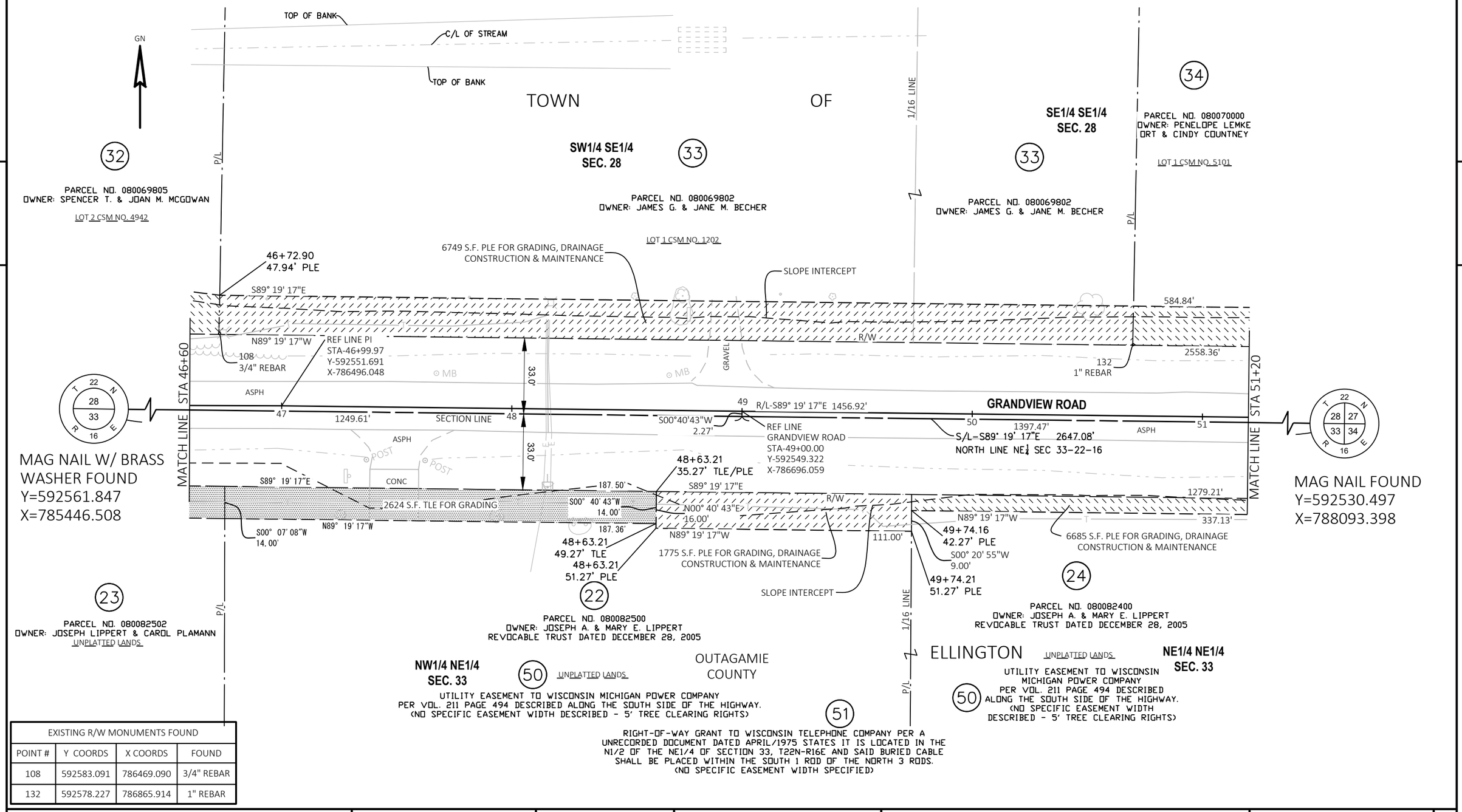
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WISDOT/CADDS SHEET 75



REVISION DATE 10/22/2024	DATE	SCALE, FEET 0 20 40	HWY: GRANDVIEW ROAD	STATE R/W PROJECT NUMBER 6508-01-01	PLAT SHEET 4. 11
	GRID FACTOR		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 6508-01-71	PS&E SHEET 54 E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\GRANDVIEW RD RW PLAT.DWG
LAYOUT NAME - 4.11
PLOT DATE : 1/16/2025 12:16 PM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########



EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
108	592583.091	786469.090	3/4" REBAR
132	592578.227	786865.914	1" REBAR

REVISION DATE 10/22/2024	DATE	SCALE, FEET 0 20 40	HWY: GRANDVIEW ROAD
	GRID FACTOR		COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER	6508-01-01	PLAT SHEET 4. 12
CONSTRUCTION PROJECT NUMBER	6508-01-71	PS&E SHEET 55

E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\GRANDVIEW RD RW PLAT.DWG
LAYOUT NAME - 4.12
PLOT DATE : 1/16/2025 12:16 PM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

TOWN OF

GN

34

PARCEL NO. 080070000
OWNER: PENELOPE LEMKE ORT & CINDY COUNTNEY

LOT 1 CSM NO. 5101

SE1/4 SE1/4
SEC. 28

4

4

52+57.36
47.72' PLE

S89° 19' 17"E
584.84'
S86° 29' 08"E

GRAVEL

12832 S.F. PLE FOR GRADING, DRAINAGE
CONSTRUCTION & MAINTENANCE

SLOPE INTERCEPT

54+43.68
38.50' PLE

186.55'
N88° 24' 24"E
174.54'

R/W
N89° 19' 17"W
2558.36'

STA 51+20

33.0'

REF LINE
GRANDVIEW ROAD
STA-53+00.00
Y-592544.585
X-787096.031

MB
MB

ASPH

53

1649.62'

52

S00°40'43"W
2.28'

R/L-S89° 19' 17"E 1456.92'

GRANDVIEW ROAD

SECTION LINE

54

997.46'

55

ASPH

STA 55+80

MATCH LINE

33.0'

S/L-S89° 19' 17"E 2647.08'
NORTH LINE NE¼ SEC 33-22-16

S89° 19' 17"E
R/W
N89° 19' 17"W
1279.21'
362.90'

337.13'

S86° 21' 42"W
53.14'

N89° 19' 17"W

SLOPE INTERCEPT

53+11.28
42.28' PLE

53+64.27
38.28' PLE

6685 S.F. PLE FOR GRADING, DRAINAGE
CONSTRUCTION & MAINTENANCE

MATCH LINE

T 22 N
R 16 E
28 | 33

MAG NAIL W/ BRASS
WASHER FOUND
Y=592561.847
X=785446.508

T 22 N
R 16 E
28 | 27
33 | 34

MAG NAIL FOUND
Y=592530.497
X=788093.398

24

PARCEL NO. 080082400
OWNER: JOSEPH A. & MARY E. LIPPERT
REVOCABLE TRUST DATED DECEMBER 28, 2005

NE1/4 NE1/4
SEC. 33

ELLINGTON

50 UNPLATTED LANDS

OUTAGAMIE
COUNTY

51

UTILITY EASEMENT TO WISCONSIN MICHIGAN POWER COMPANY
PER VOL. 211 PAGE 494 DESCRIBED ALONG THE SOUTH SIDE OF THE HIGHWAY.
(NO SPECIFIC EASEMENT WIDTH DESCRIBED - 5' TREE CLEARING RIGHTS)

RIGHT-OF-WAY GRANT TO WISCONSIN TELEPHONE COMPANY PER A
UNRECORDED DOCUMENT DATED APRIL/1975 STATES IT IS LOCATED IN THE
N1/2 OF THE NE1/4 OF SECTION 33, T22N-R16E AND SAID BURIED CABLE
SHALL BE PLACED WITHIN THE SOUTH 1 ROD OF THE NORTH 3 RODS.
(NO SPECIFIC EASEMENT WIDTH SPECIFIED)

REVISION DATE 10/22/2024	DATE	SCALE, FEET 0 20 40	HWY: GRANDVIEW ROAD	STATE R/W PROJECT NUMBER 6508-01-01	PLAT SHEET 4. 13
	GRID FACTOR		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 6508-01-71	PS&E SHEET 56 E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\GRANDVIEW RD RW PLAT.DWG
LAYOUT NAME - 4.13

PLOT DATE : 1/16/2025 12:16 PM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 75

GN

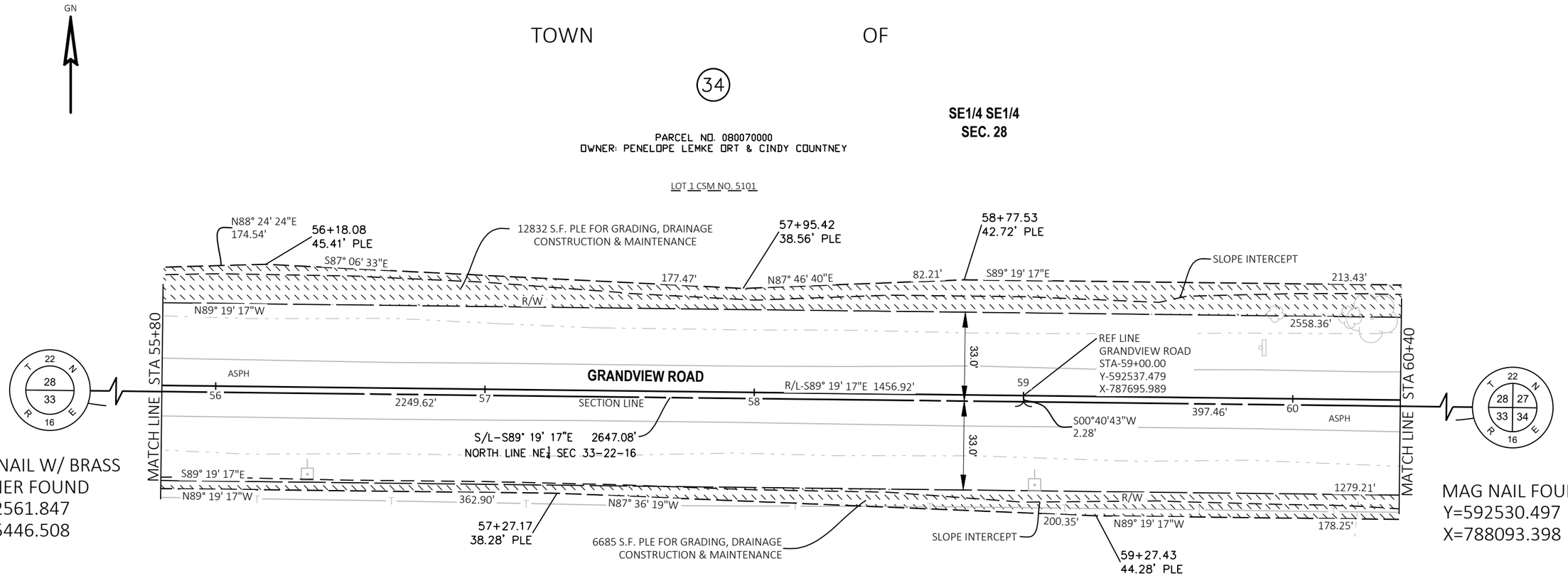
TOWN OF

34

PARCEL NO. 080070000
OWNER: PENELOPE LEMKE ORT & CINDY COUNTNEY

LOT 1 CSM NO. 5101

SE1/4 SE1/4
SEC. 28



MAG NAIL W/ BRASS
WASHER FOUND
Y=592561.847
X=785446.508

MAG NAIL FOUND
Y=592530.497
X=788093.398

24

PARCEL NO. 080082400
OWNER: JOSEPH A. & MARY E. LIPPERT
REVOCABLE TRUST DATED DECEMBER 28, 2005

UNPLATTED LANDS

ELLINGTON

NE1/4 NE1/4
SEC. 33

51

RIGHT-OF-WAY GRANT TO WISCONSIN TELEPHONE COMPANY PER A UNRECORDED DOCUMENT DATED APRIL/1975 STATES IT IS LOCATED IN THE N1/2 OF THE NE1/4 OF SECTION 33, T22N-R16E AND SAID BURIED CABLE SHALL BE PLACED WITHIN THE SOUTH 1 ROD OF THE NORTH 3 RODS. (NO SPECIFIC EASEMENT WIDTH SPECIFIED)

OUTAGAMIE
COUNTY

50

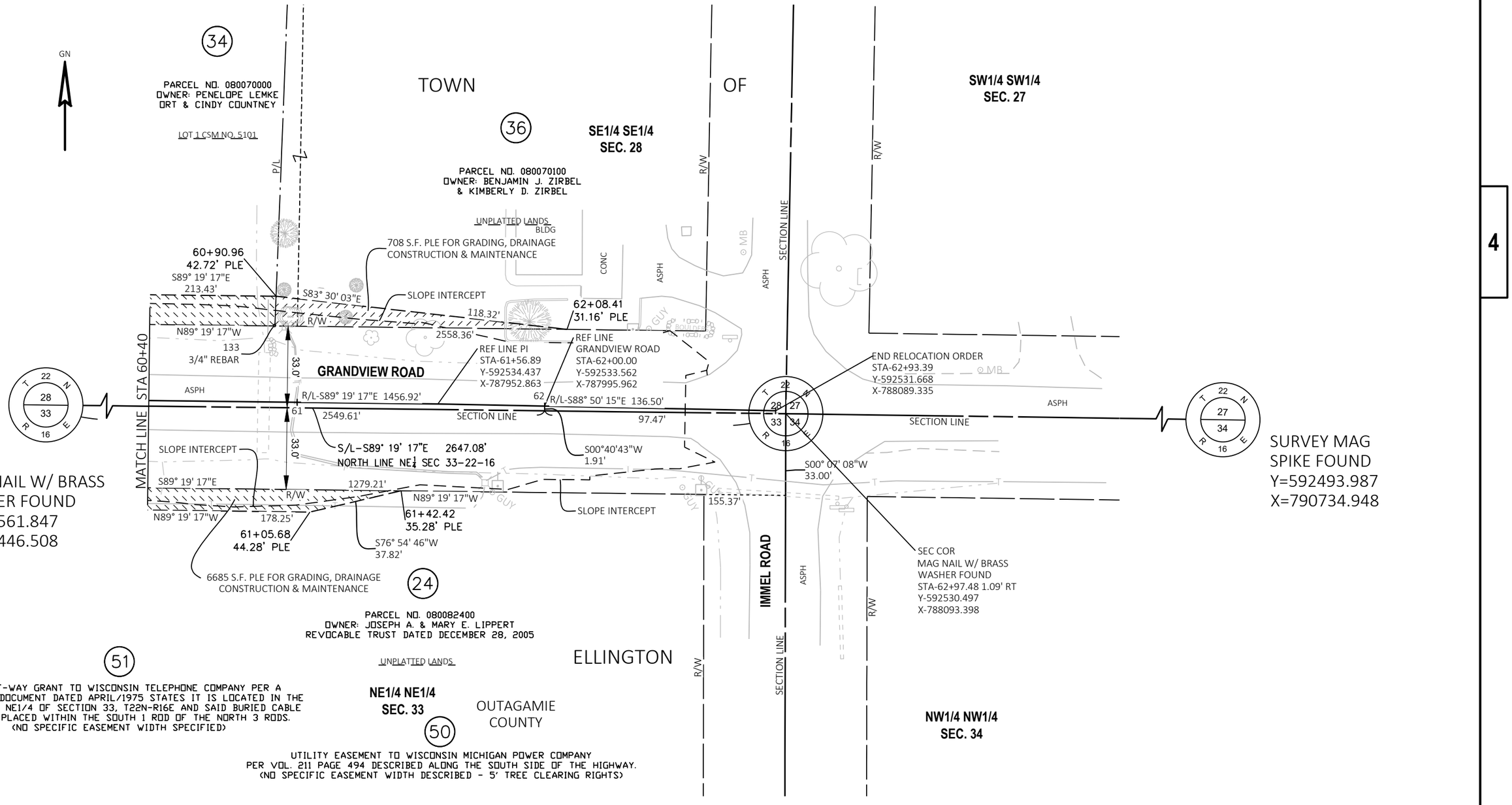
UTILITY EASEMENT TO WISCONSIN MICHIGAN POWER COMPANY PER VOL. 211 PAGE 494 DESCRIBED ALONG THE SOUTH SIDE OF THE HIGHWAY. (NO SPECIFIC EASEMENT WIDTH DESCRIBED - 5' TREE CLEARING RIGHTS)

REVISION DATE 10/22/2024	DATE	SCALE, FEET 0 20 40	HWY: GRANDVIEW ROAD	STATE R/W PROJECT NUMBER 6508-01-01	PLAT SHEET 4. 14
	GRID FACTOR		COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 6508-01-71	PS&E SHEET 57 E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\GRANDVIEW RD RW PLAT.DWG
LAYOUT NAME - 4.14

PLOT DATE : 1/16/2025 12:16 PM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 75



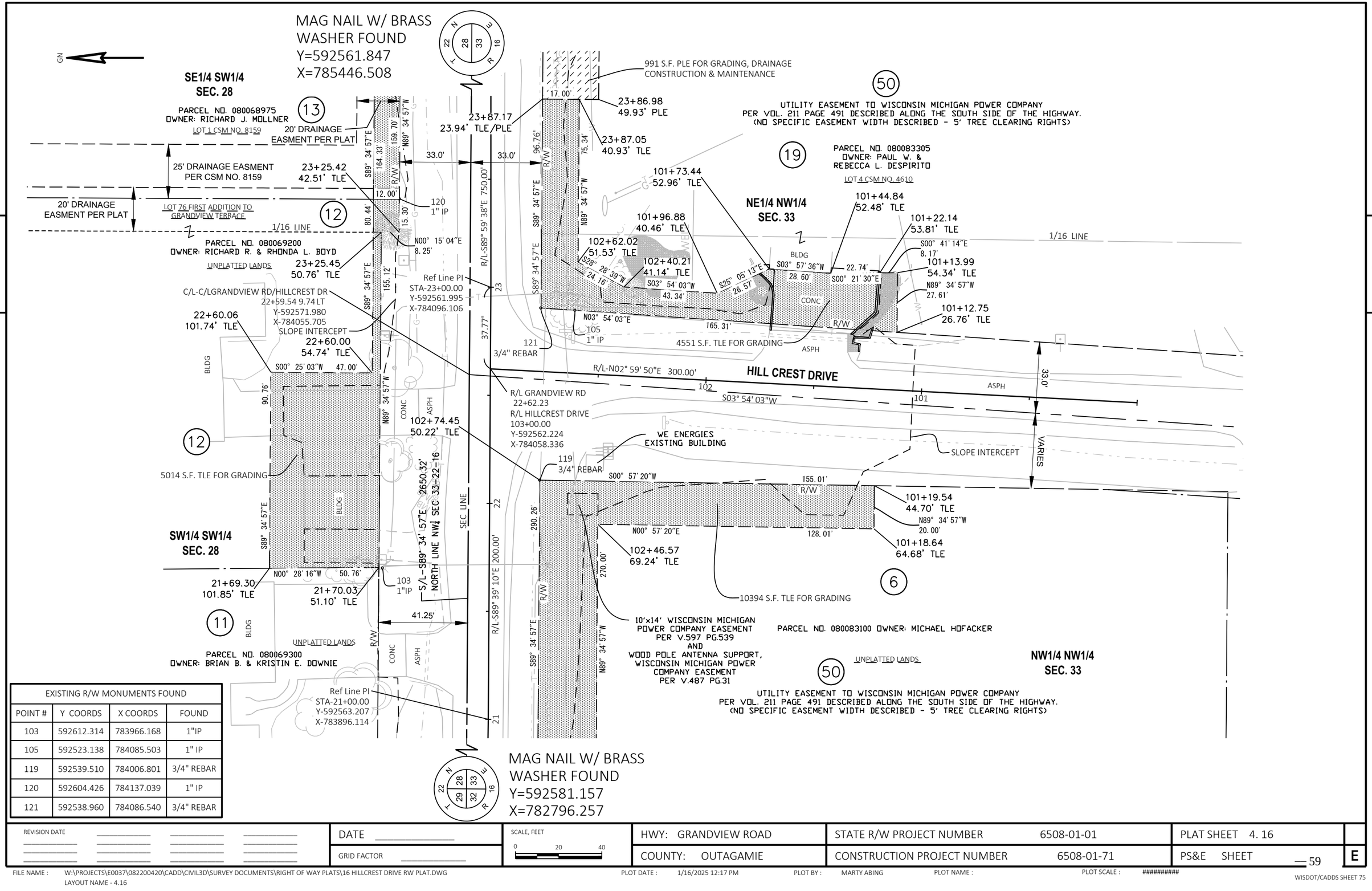
EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
133	592566.126	787886.777	3/4" REBAR

REVISION DATE 10/22/2024 01/16/2025	DATE	SCALE, FEET 0 20 40	HWY: GRANDVIEW ROAD
	GRID FACTOR		COUNTY: OUTAGAMIE

STATE R/W PROJECT NUMBER	6508-01-01	PLAT SHEET 4. 15
CONSTRUCTION PROJECT NUMBER	6508-01-71	PS&E SHEET 58

E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\GRANDVIEW RD RW PLAT.DWG
LAYOUT NAME - 4.15
PLOT DATE : 1/16/2025 12:16 PM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 75



EXISTING R/W MONUMENTS FOUND			
POINT #	Y COORDS	X COORDS	FOUND
103	592612.314	783966.168	1"IP
105	592523.138	784085.503	1" IP
119	592539.510	784006.801	3/4" REBAR
120	592604.426	784137.039	1" IP
121	592538.960	784086.540	3/4" REBAR

REVISION DATE	DATE	HWY: GRANDVIEW ROAD	STATE R/W PROJECT NUMBER 6508-01-01	PLAT SHEET 4. 16
	GRID FACTOR	COUNTY: OUTAGAMIE	CONSTRUCTION PROJECT NUMBER 6508-01-71	PS&E SHEET 59 E

SCALE, FEET 0 20 40

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\SURVEY DOCUMENTS\RIGHT OF WAY PLATS\16 HILLCREST DRIVE RW PLAT.DWG
LAYOUT NAME - 4.16
PLOT DATE : 1/16/2025 12:17 PM PLOT BY : MARTY ABING PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 75

BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
7+41	31.3' RT.	NAIL SET IN PP 02-10428	912.39
12+12	38.7' RT.	NAIL SET IN PP 74-4372	931.55
12+63	59.4' RT.	NAIL SET IN TREE	935.16

W7530 GRANDVIEW RD

W7666 GRANDVIEW RD

GRANDVIEW RD

STA 10+25
REMOVE SMALL CULVERT PIPE 24-INCH CMP
36.0 LF CPCS 24-INCH REQUIRED
(2) AEW REQUIRED
10+06.00, 39.92 LT, INVERT 914.70
10+42.00, 39.92 LT, INVERT 914.92

SLOPE INTERCEPT

N

MATCH EXIST PROPOSED DITCH (TYP)
STA 9+31

PLE

PROPOSED DITCH (TYP)

EXISTING R/W

MATCH LINE 14+00

BP 9+00.00

PI 10+00.00

19'

EX 24" CMP

GRAV

EX 24" RCP

10'

ASPH

35'

STA 11+45, -16.00' LT
BEGIN CURB & GUTTER

GRANDVIEW RD

10+00 11+00 12+00 37' B-B 13+00 14+00

BEGIN CURB & GUTTER
STA 11+45, 16.00' RT

MATCH EXIST PROPOSED DITCH (TYP)
STA 10+31

39'

EX 33"x49" CULVERT

GUY

2' GRAVEL SHOULDER (TYP)

NORTH ROAD

PROPOSED DITCH (TYP)

PLE

EXISTING R/W

SLOPE INTERCEPT

BEGIN CONSTRUCTION
STA 10+45.00
MATCH EXISTING
SAW CUT REQ'D

N2841 NORTH RD

N2852 NORTH RD

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

945
940
935
930
925
920
915

9.75%

VCL = 375.00
K = 65.93

PROPOSED CL PROFILE

EXISTING CL PROFILE

STA 10+45.00
EL 921.93

4.06%

VPC STA 10+62.13
VPC EL 922.63

VPI STA 12+50.00
VPI EL 930.25

916.73	918.63	920.42	922.11	922.13	924.03	924.27	926.25	926.77	928.45	929.66	931.26	932.92	934.07	936.56	937.65	940.58	941.23	944.98
9		10			11		12				13				14			

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: GRANDVIEW ROAD PLAN AND PROFILE	SHEET 60	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP.DWG
LAYOUT NAME - 01

PLOT DATE : 3/26/2025 2:47 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP.dwg, 3/26/2025 2:47:11 PM, Jelinski, 11

RCEPT

PLE

STA 14+43
REMOVE SMALL CULVERT PIPE 24-INCH RCP
38.0 LF CPCS 24-INCH REQUIRED
(2) AEW REQUIRED
14+17.00, 49.93 LT, INVERT 937.06
14+55.00, 53.66 LT, INVERT 939.15

FENCE TO BE REMOVED BY OTHERS

W7666 GRANDVIEW RD

PROPOSED DITCH (TYP)

EXISTING R/W

EX 24" RCP

10'

ASPH

GRANDVIEW RD

GRAV.

ASPH

STA 16+66
REMOVE SMALL CULVERT PIPE 24-INCH CMP
112.0 LF CMP 18-INCH REQUIRED
(2) AEW REQUIRED
16+19.76, 50.20 LT, INVERT 956.58
17+31.76, 50.17 LT, INVERT 967.48

EX 24" CMP

ASPHALT FLUME

SLOPE INTERCEPT

STA 18+10
REMOVE SMALL CULVERT PIPE 24-INCH CMP

EX 24" CMP

PROPOSED DITCH (TYP)

MATCH LINE 19+00

N

GRANDVIEW RD

SLO

39'

37' B-B

36'

GRANDVIEW RD

14+00 15+00 16+00 17+00 18+00 19+00

PROPOSED DITCH (TYP)

MATCH LINE 14+00

PLE

TLE

SLOPE INTERCEPT

EXISTING R/W

PROPOSED DITCH (TYP)

EX 24" CMP

ASPH

22'

14'

STA 18+00
REMOVE SMALL CULVERT PIPE 24-INCH CMP
54.0 LF CPCS 18-INCH REQUIRED
(2) AEW REQUIRED
17+62.00, 41.91 RT, INVERT 973.19
18+16.00, 40.13 RT, INVERT 979.01

W7639 GRANDVIEW RD

BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
15+44	66.9' RT	NAIL SET IN TREE	956.81

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

970 965 960 955 950 945 940

PROPOSED CL PROFILE

VCL = 375.00
K = 65.93

9.75%

EXISTING CL PROFILE

VPT STA 14+37.13
VPT EL 948.49

941.23 944.98 945.41 949.74 949.59 954.62 954.06 959.49 958.52 964.36 963.82 969.24

14 15 16

970 965 960 955 950 945 940

990 985 980 975 970 965 962

PROPOSED CL PROFILE

9.75%

EXISTING CL PROFILE

VCL = 310.00
K = 31.94

VPC STA 18+45.00
VPC EL 988.24

969.19 974.11 974.81 978.98 980.27 983.86 985.70 988.73 990.77 993.13

16 17 18 19

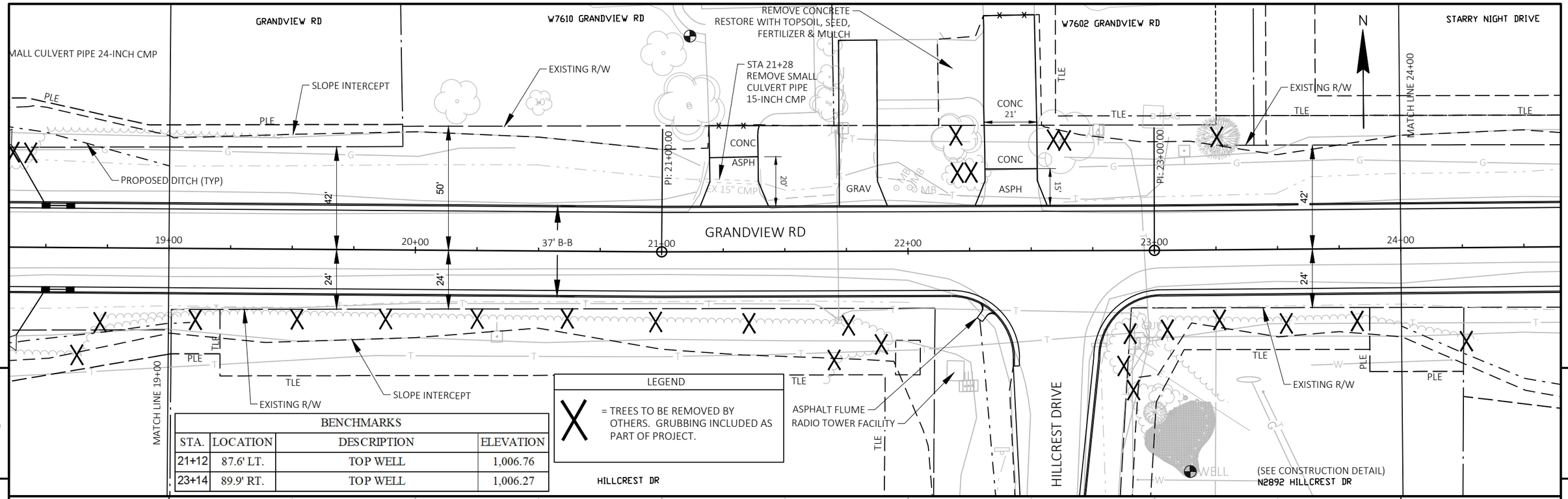
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: GRANDVIEW ROAD PLAN AND PROFILE	SHEET 61 E

FILE NAME : W:\PROJECTS\E00371\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP.DWG
LAYOUT NAME - 02

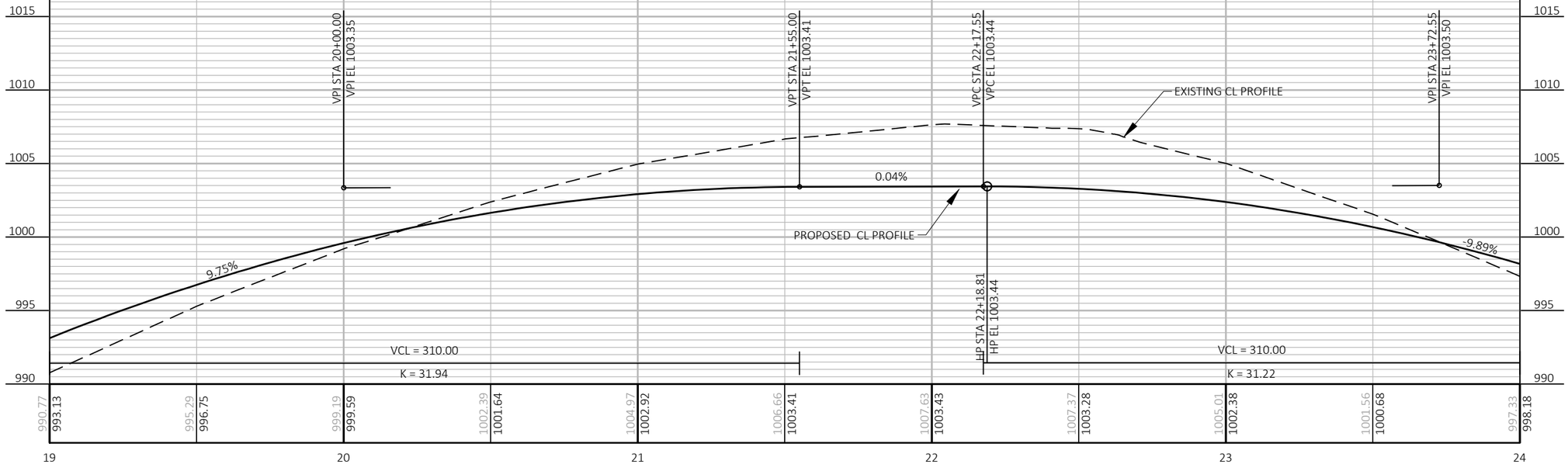
PLOT DATE : 3/26/2025 2:47 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E00371\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP.dwg, 3/26/2025 2:47:13 PM, Jelinski, 11



BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
21+12	87.6' LT.	TOP WELL	1,006.76
23+14	89.9' RT.	TOP WELL	1,006.27



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: GRANDVIEW ROAD PLAN AND PROFILE	SHEET 62	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP.DWG
LAYOUT NAME - 03
PLOT DATE : 3/26/2025 2:47 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP.dwg, 3/26/2025 2:47:14 PM, Jelinski, 1:1

STARRY NIGHT DRIVE

STARRY NIGHT DRIVE

GRANDVIEW RD

LEGEND	
X	= TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

EXISTING R/W

SLOPE INTERCEPT

CUT EX 8" PVC BACK TO PROPOSED DITCH BACK SLOPE

PROPOSED DITCH (TYP)

MATCH LINE 29+00

8" PVC 848.40

N

TLE

PLE

G

T

W

41'

25'

37' B-B

GRANDVIEW RD

24+00 25+00 26+00 37' B-B 27+00 28+00 29+00

MATCH LINE 24+00

PROPOSED DITCH (TYP)

SLOPE INTERCEPT

EXISTING R/W

(SEE CONSTRUCTION DETAIL)
N2892 HILLCREST DR

W7415 GRANDVIEW RD

BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
24+92	35.7' RT.	NAIL SET IN POWER POLE 74-4368	984.23

1005 1000 995 990 985 980 978

1005 1000 995 990 985 980 978

975 970 965 960 955 950 948

975 970 965 960 955 950 948

PROPOSED CL PROFILE

-9.89%

VPT STA 25+27.55
VPT EL 988.17

VCL = 310.00
K = 31.22

EXISTING CL PROFILE

PROPOSED CL PROFILE

-9.89%

VPC STA 28+30.00
VPC EL 958.25

VCL = 450.00
K = 66.72

EXISTING CL PROFILE

997.33 998.18 992.43 994.88 987.13 990.77 981.72 985.95 976.46 981.00 971.00 976.06 965.83 971.11 961.00 966.17 956.72 961.22 952.67 956.31 948.82 951.70

24 25 26 27 28 29

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: GRANDVIEW ROAD PLAN AND PROFILE	SHEET 63	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP.DWG
LAYOUT NAME - 04

PLOT DATE : 3/26/2025 2:47 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP.dwg, 3/26/2025 2:47:16 PM, Jelinski, 1:1

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

CUT EX 8" PVC BACK TO PROPOSED DITCH BACK SLOPE

8" PVC 848.40

849.01

EXISTING R/W

17'

PI: 30+50.00

STA 30+26
REMOVE SMALL CULVERT PIPE 30-INCH CMP
40.0 LF CPCS 18-INCH REQUIRED
(2) AEW REQUIRED
30+09.00, 38.08 LT, INVERT 936.95
30+49.00, 36.99 LT, INVERT 934.87

W7530 GRANDVIEW RD

SLOPE INTERCEPT

STA 31+66
REMOVE SMALL CULVERT PIPE 18-INCH CMP
30.0 LF CPCS 18-INCH REQUIRED
(2) AEW REQUIRED
31+52.00, 34.05 LT, INVERT 929.86
31+82.00, 33.72 LT, INVERT 928.48

LEDGEVIEW TERRACE

N

REMOVE RIPRAP WITHIN GRADING LIMITS. MATCH DITCH TO RIPRAP

MATCH LINE 34+00

PROPOSED DITCH (TYP)

10'

EX 30" CMP

EX 18" CMP

GRAV

GRAV

37'

37' B-B

GRANDVIEW RD

29+00 30+00 31+00 32+00 33+00 34+00

STA 34+17.70, -16.00' LT

STA 33+05.91, 16.00' RT

STA 34+32.47, 23.00' RT

11'

29'

EX 30" CMP

18'

GRAV

13'

MATCH LINE 29+00

STA 29+74
REMOVE SMALL CULVERT PIPE 30-INCH CMP
54.0 LF CPCS 18-INCH REQUIRED
(2) AEW REQUIRED
29+47.00, 54.93 RT, INVERT 936.38
30+01.00, 54.93 RT, INVERT 933.74

W7415 GRANDVIEW RD

EXISTING R/W

SLOPE INTERCEPT

PROPOSED DITCH (TYP)

START BYPASS LANE

PLE

BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
29+91	36.6' RT.	NAIL SET IN POWER POLE 74-4331	940.37

955 950 945 940 935 930 925

-9.89%

-3.15%

EXISTING CL PROFILE

VCL = 450.00

K = 66.72

PROPOSED CL PROFILE

VPI STA 30+55.00
VPI EL 936.00

VPT STA 32+80.00
VPT EL 928.92

948.82 951.70 945.24 947.46 941.67 943.61 939.12 940.12 936.56 937.01 934.37 934.28 932.26 931.92 930.34 929.93 928.58 928.29 926.89 926.72 925.23 925.15

29 30 31 32 33 34

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: GRANDVIEW ROAD PLAN AND PROFILE	SHEET 64	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP.DWG
LAYOUT NAME - 05

PLOT DATE : 3/26/2025 2:47 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP.dwg, 3/26/2025 2:47:17 PM, Jelinski, 1:1

LEDGEVIEW TERRACE

LEDGEVIEW TERRACE

ASPHALT FLUME

EXISTING R/W

8" PVC
913.82

PROPOSED DITCH (TYP)

REMOVE RIPRAP WITHIN GRADING LIMITS. MATCH DITCH TO RIPRAP

PLE

STA 35+27.70, -22.00' LT

STA 34+17.70, -16.00' LT

GRANDVIEW RD

LEDGEVIEW TERRACE

LEDGEVIEW TERRACE

W7474 GRANDVIEW RD

ASPHALT FLUME

STA 37+30
REMOVE SMALL CULVERT PIPE 24-INCH CMC
37+55.00, 36.68 LT

SLOPE INTERCEPT

STA 36+57.76, -22.00' LT

36'

W7474 GRANDVIEW RD

STA 38+68
REMOVE SMALL CULVERT PIPE 24-INCH CMP
32.0 LF CPCS 24-INCH REQUIRED
(2) AEW REQUIRED
38+53.00, 30.28 LT, INVERT 911.07
38+85.00, 29.64 LT, INVERT 910.56

N

MATCH LINE 38+99.97

PROPOSED DITCH (TYP)

PLE

PI 38+82.04

12'

15'

EX 24" CMP

ASPH

34'

STA 38+22.76, -11.00' LT

34+00 35+00 36+00 37+00 38+00 39+00

END CURB AND GUTTER
STA 36+82.47, 23.00' RT

STA 34+32.47, 23.00' RT

11'

30'

EX 24" CMP

GRAV

32'

12' BYPASS LANE

MATCH LINE 34+00

BYPASS LANE

PLE

EXISTING R/W

SLOPE INTERCEPT

STA 36+38
REMOVE SMALL CULVERT PIPE 24-INCH CMP
26.0 LF CPCS 24-INCH REQUIRED
(2) AEW REQUIRED
36+25.00, 39.53 RT, INVERT 914.89
36+50.48, 40.58 RT, INVERT 914.16

W7415 GRANDVIEW RD

W7415 GRANDVIEW RD

PROPOSED DITCH (TYP)

BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
34+70	28.1' RT	NAIL SET IN PP 19-06282	923.20
38+04	66.7' LT	NAIL IN TREE #7474	915.58

LEGEND	
X	= TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

VCL = 100.00
K = 122.80

VCL = 135.00
K = 208.34

-3.15%
-2.33%
-1.68%
-2.12%

PROPOSED CL PROFILE
EXISTING CL PROFILE

VPC STA 34+50.00
VPC EL 923.57

VPI STA 35+00.00
VPI EL 922.00

VPT STA 35+50.00
VPT EL 920.83

VPC STA 35+82.50
VPC EL 920.08

VPI STA 36+50.00
VPI EL 918.50

VPT STA 37+17.50
VPT EL 917.37

STA 38+35.00
EL 915.39

930 925 920 915 910 905 903

925.23 925.15 | 923.64 923.57 | 922.11 922.10 | 920.75 920.83 | 919.57 919.68 | 918.58 918.61 | 917.60 917.67 | 916.72 916.82 | 915.89 915.98 | 915.08 915.07 | 914.09 914.01

34 35 36 37 38 39

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: GRANDVIEW ROAD PLAN AND PROFILE	SHEET 65 E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP.DWG
LAYOUT NAME - 06

PLOT DATE : 3/26/2025 2:47 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP.dwg, 3/26/2025 2:47:19 PM, Jelinski, 1:1

STA 38+68
E 24-INCH CMP
NCH REQUIRED
AEW REQUIRED
INVERT 911.07
INVERT 910.56

(TYP)

W7474 GRANDVIEW RD

W7458 GRANDVIEW RD

STA 41+12
REMOVE SMALL CULVERT PIPE 24-INCH CMP
34.0 LF CPCS 24-INCH REQUIRED
(2) AEW REQUIRED
40+96.00, 32.98 LT, INVERT 905.24
41+30.00, 32.36 LT, INVERT 904.30

W7452 GRANDVIEW RD

STA 42+74
REMOVE SMALL CULVERT PIPE 24-INCH CMP
38.0 LF CPCS 24-INCH REQUIRED
(2) AEW REQUIRED
42+57.00, 30.16 LT, INVERT 901.58
42+95.00, 33.82 LT, INVERT 899.75

3' PAVED SHOULDER (TYP)

2' GRAVEL SHOULDER (TYP)

EXISTING R/W

SLOPE INTERCEPT

UNNAMED TRIBUTARY
TO BEAR CREEK (TYP)

MATCH LINE 43+99.97

PLE

12'
15'
13'
20'
18'
23'

EX 24" CMP

PROPOSED DITCH (TYP)

ASPH

GRAV

34'

22'

32'

GRANDVIEW RD

39+00 40+00 41+00 42+00 43+00 44+00

MATCH LINE 38+99.97

END BYPASS LANE
STA 40+07.56, 11.00' RT

EXISTING R/W

PROPOSED DITCH (TYP)

SLOPE INTERCEPT

EXISTING WETLANDS (TYP)
(1,780 SF DISTURBED)

STA 44+25
REMOVE (2) CULV
(2) 84.0 LF RCP C
44+13.00, 38.55
44+44.00, 40.86
(2) CONCRETE MA

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

W7415 GRANDVIEW RD

N

5

5

915
910
905
900
895
890
888

-2.12%

-2.71%

-1.91%

EXISTING CL PROFILE

PROPOSED CL PROFILE

VCL = 135.00
K = 169.98

VCL = 150.00
K = 45.28

STA 41+00.00
EL 909.76

VPC STA 42+17.50
VPC EL 906.58

VPI STA 42+85.00
VPI EL 904.75

VPT STA 43+52.50
VPT EL 903.46

VPC STA 43+80.00
VPC EL 902.93

914.09 914.01
913.06 912.94
912.00 911.88
910.97 910.82
909.88 909.76
908.48 908.41
907.09 907.05
905.70 905.73
904.42 904.55
903.40 903.51
902.48 902.60

39 40 41 42 43 44

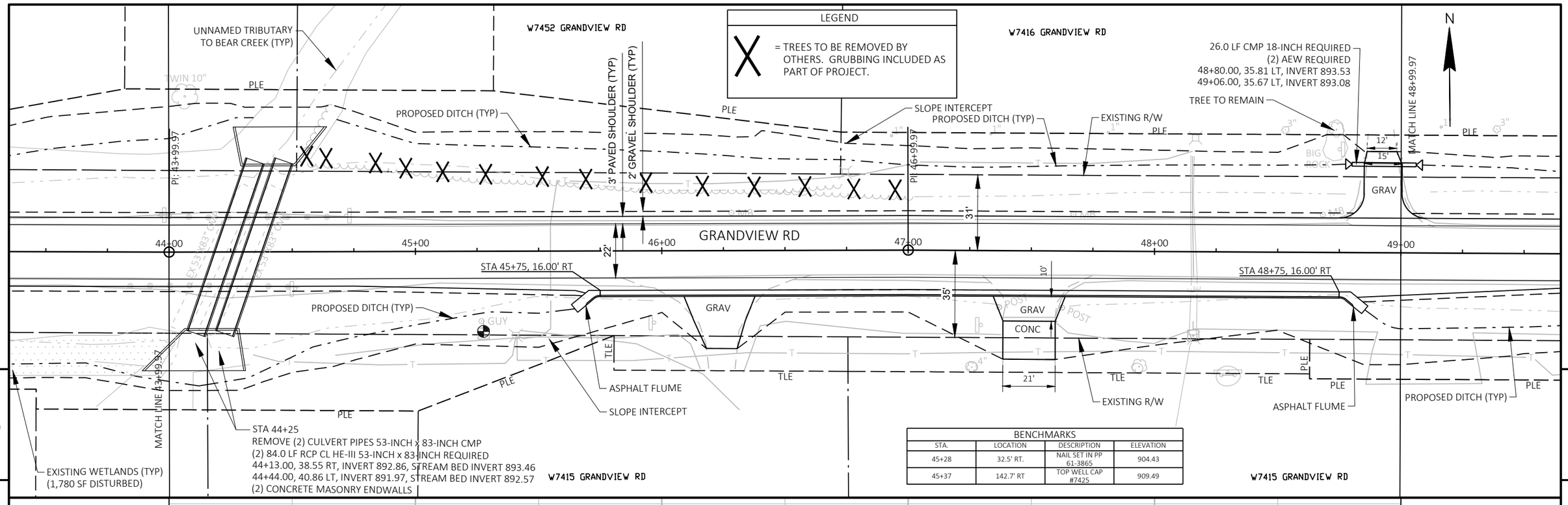
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: GRANDVIEW ROAD PLAN AND PROFILE	SHEET 66	E

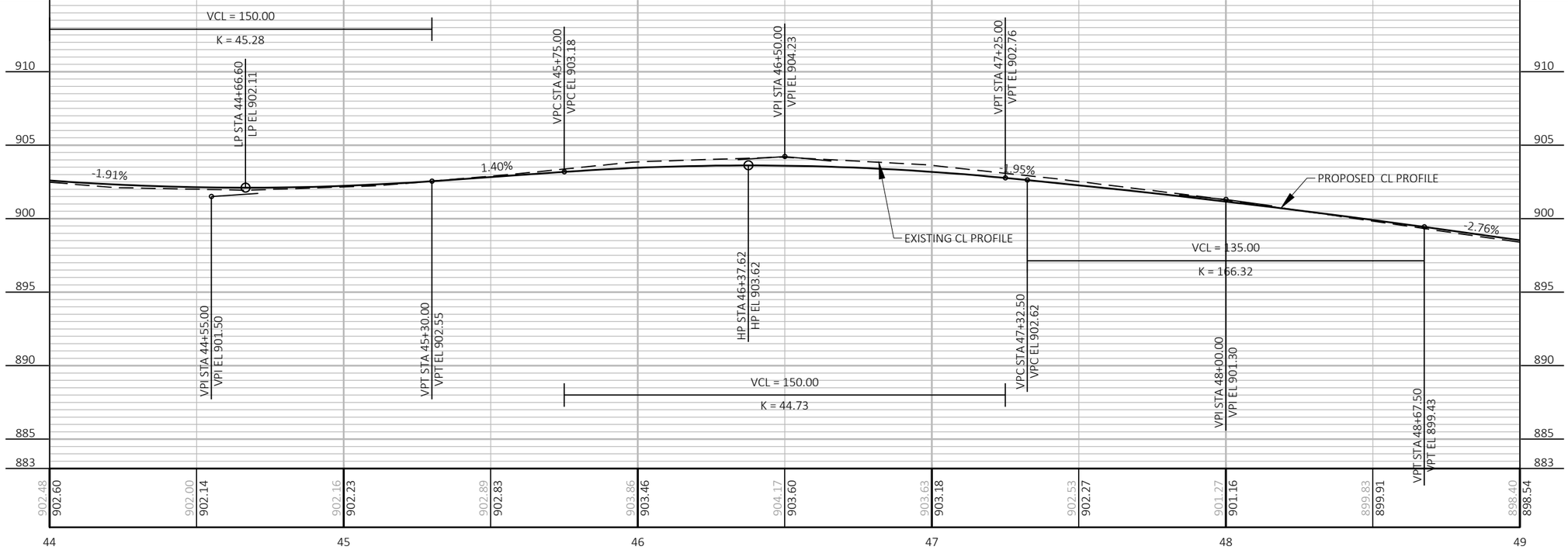
FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP.DWG
LAYOUT NAME - 07

PLOT DATE : 3/26/2025 2:47 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP.dwg, 3/26/2025 2:47:20 PM, Jelinski, 1:1





PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: GRANDVIEW ROAD PLAN AND PROFILE	SHEET 67	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP.DWG
LAYOUT NAME - 08
PLOT DATE : 3/26/2025 2:47 PM
PLOT BY : JORDAN JELINSKI
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP.dwg, 3/26/2025 2:47:21 PM, Jelinski, 1:1

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

W7416 GRANDVIEW RD

W7368 GRANDVIEW RD

W7415 GRANDVIEW RD

W7415 GRANDVIEW RD

CMP 18-INCH REQUIRED
(2) AEW REQUIRED
35.81 LT, INVERT 893.53
35.67 LT, INVERT 893.08

MAIN

BIG ROCK

GRAV

CMP

PLE

12'

15'

3" 1" 3"

PROPOSED DITCH (TYP)

3' PAVED SHOULDER (TYP)

2' GRAVEL SHOULDER (TYP)

SLOPE INTERCEPT

EXISTING R/W

22'

31'

35'

GRANDVIEW RD

49+00 50+00 51+00 52+00 53+00 54+00

STA 53+26
REMOVE SMALL CULVERT PIPE 15-INCH CMP
24.0 LF RCHE 19-INCH x 30-INCH REQUIRED
(2) AEW REQUIRED
53+14.00, 29.62 LT, INVERT 886.92
53+38.00, 30.27 LT, INVERT 886.81

11'

14'

EX 15" CMP

GRAV

EX 24" CMP

EX MB

MATCH LINE 53+99.97

N

STA 48+75, 16.00' RT

TLE

PLE

ASPHALT FLUME

MATCH LINE 48+99.97

PROPOSED DITCH (TYP)

PLE

SLOPE INTERCEPT

EXISTING R/W

PROPOSED DITCH (TYP)

*STA 52+50
48.0 LF RCHE CL IV 19-INCH x 30-INCH REQUIRED
(2) AEW REQUIRED
52+50.00, 24.5' LT, INVERT 887.31
52+50.00, 23.5' RT, INVERT 887.77

STA 52+81
REMOVE SMALL CULVERT PIPE 24-INCH CMP

DRAINTILE EXPLORATION
LOCATE DRAINTILE AND DAYLIGHT TO DITCH

EXISTING WETLANDS (TYP)
(4,774 SF DISTURBED)

*NOTE: LESS THAN 2 FEET OF SUBGRADE COVER WILL EXIST AT THIS CULVERT LOCATION. CONTRACTOR TO TAKE PRECAUTIONARY MEASURES DURING CONSTRUCTION TO MINIMIZE EQUIPMENT LOADING IMPACTS ON THE CULVERT

BENCHMARKS			
STA.	LOCATION	DESCRIPTION	ELEVATION
50+72	33.7' RT	NAIL SET IN PP 61-3862	893.09

VCL = 150.00

K = 75.81

-2.76%

-0.79%

PROPOSED CL PROFILE

EXISTING CL PROFILE

EXIST 18" CMP CULVERT

VPC STA 50+45.01
VPC EL 894.53

VPI STA 51+20.00
VPI EL 892.45

VPT STA 51+95.01
VPT EL 891.86

905 900 895 890 885 880 878

898.40	897.02	895.61	894.26	893.14	892.27	891.62	891.19	890.82	890.23	889.78	
898.54	897.15	895.77	894.39	893.20	892.35	891.82	891.43	891.04	890.64	890.25	
49		50		51		52		53		54	

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: GRANDVIEW ROAD PLAN AND PROFILE	SHEET 68 E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP.DWG
LAYOUT NAME - 09

PLOT DATE : 3/26/2025 2:47 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP.dwg, 3/26/2025 2:47:23 PM, Jelinski, 1:1

W7368 GRANDVIEW RD

N

MATCH LINE 58+99.97

PLE

3' PAVED SHOULDER (TYP)

2' GRAVEL SHOULDER (TYP)

PROPOSED DITCH (TYP)

EXISTING R/W

SLOPE INTERCEPT

31'

22'

35'

GRANDVIEW RD

54+00 55+00 56+00 57+00 58+00 59+00

NTILE EXPLORATION
DAYLIGHT TO DITCH

PIPE 24-INCH CMP

MATCH LINE 53+99.97

EXISTING WETLANDS (TYP)
(4,774 SF DISTURBED)

SLOPE INTERCEPT

EXISTING R/W

PROPOSED DITCH (TYP)

EXISTING WETLANDS (TYP)
(4,774 SF DISTURBED)

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

BENCHMARKS

STA.	LOCATION	DESCRIPTION	ELEVATION
56+34	31.7' RT.	NAIL SET IN PP 18-11198	888.73

W7415 GRANDVIEW RD

STA 54+00.00
EL 890.25

STA 57+00.00
EL 888.70

PROPOSED CL PROFILE

-0.52%

-0.26%

EXISTING CL PROFILE

900 895 890 885 880 875 870

889.78 890.25 889.43 889.99 889.16 889.73 888.90 889.48 888.62 889.22 888.38 888.96 888.25 888.70 888.18 888.57 888.02 888.44 887.77 888.31 887.58 888.17

54 55 56 57 58 59

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: GRANDVIEW ROAD PLAN AND PROFILE	SHEET 69 E

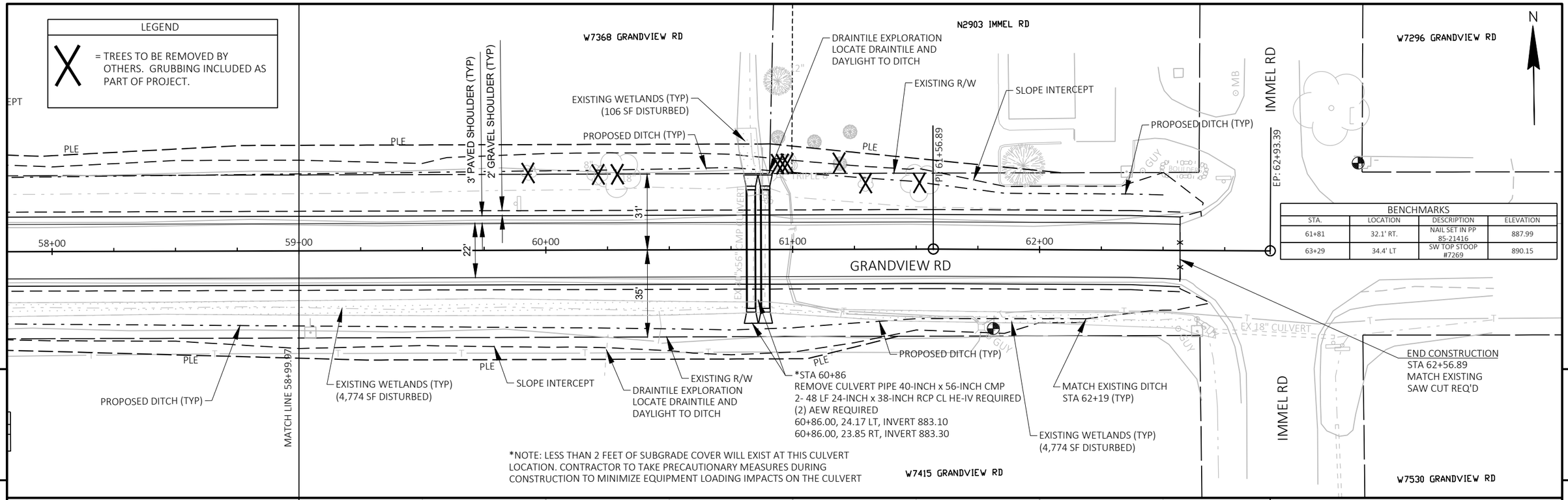
FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP.DWG
LAYOUT NAME - 10

PLOT DATE : 3/26/2025 2:47 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

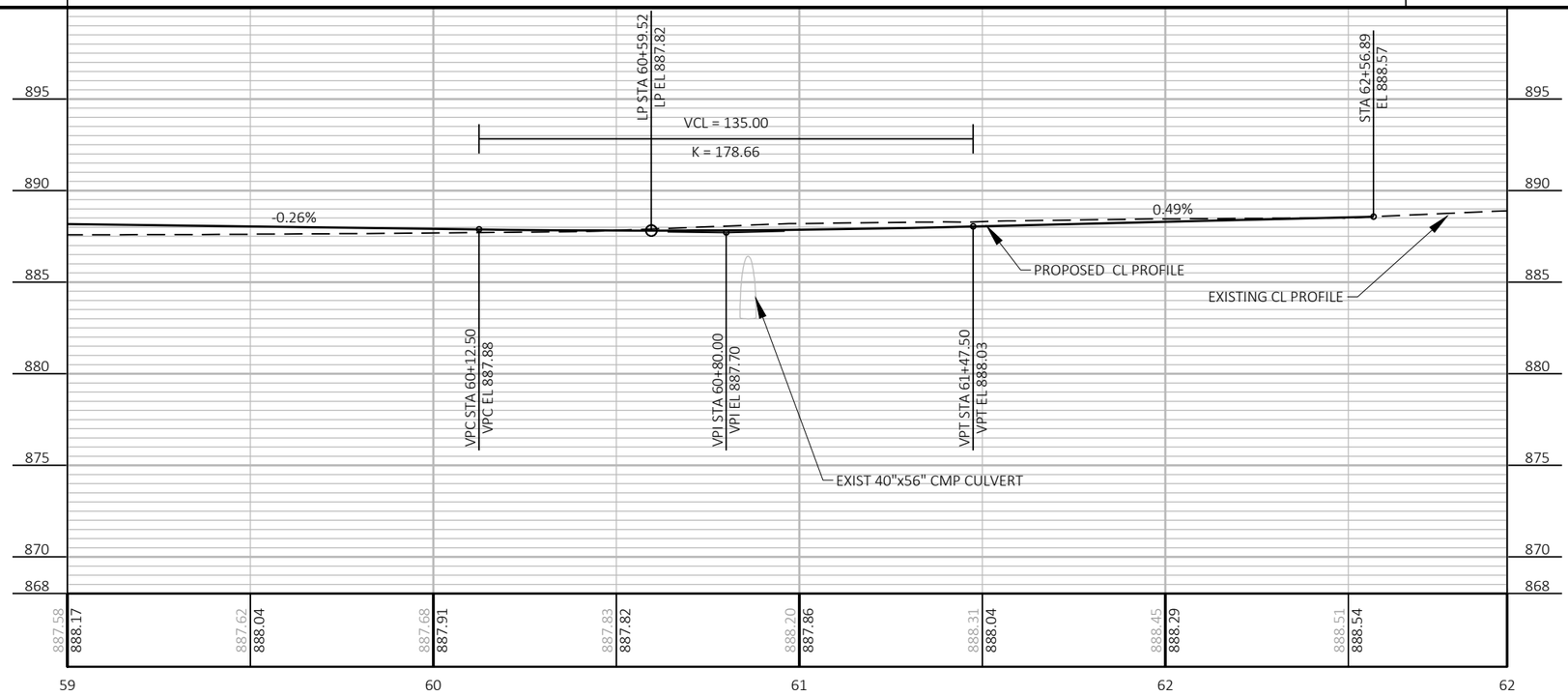
WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP.dwg, 3/26/2025 2:47:24 PM, Jelinski, 1:1

LEGEND	
X	= TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.



*NOTE: LESS THAN 2 FEET OF SUBGRADE COVER WILL EXIST AT THIS CULVERT LOCATION. CONTRACTOR TO TAKE PRECAUTIONARY MEASURES DURING CONSTRUCTION TO MINIMIZE EQUIPMENT LOADING IMPACTS ON THE CULVERT



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: GRANDVIEW ROAD PLAN AND PROFILE	SHEET 70	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP.DWG
LAYOUT NAME - 11
PLOT DATE : 3/26/2025 2:47 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP.dwg, 3/26/2025 2:47:26 PM, Jelinski, 11

HILLCREST DR

STA 101+40
REMOVE SMALL CULVERT PIPE 15-INCH CMP
38.0 LF CMP 18-INCH REQUIRED
(2) AEW REQUIRED
101+20.99, 21.83 LT, INVERT 1001.80
101+58.99, 21.83 LT, INVERT 1002.05

SLOPE INTERCEPT

PROPOSED DITCH (TYP)

GRAV

GRANDVIEW RD

22+00

1003.28

STA 101+73.98, -10.00' LT
1004.47

FLUME

1003.10

1003.22

STA 102+52.48, -15.00' LT

BP: 100+00.00

HILLCREST DRIVE

101

10'

102

10'

STA 102+56.57, 15.00' RT
1003.12

1002.59

ASPH

14'

EX 15" CMP

13'

1004.49
STA 101+77.61, 10.22' RT

CONC

1002.06

23+00

PI: 23+00.00

STA. 103+00.00 HILLCREST DRIVE
STA. 22+62.23 GRANDVIEW ROAD

W 1602 GRANDVIEW RD

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

BEGIN PROJECT
STA. 101+04.00
Y= 592366.419
X= 784048.084
MATCH EXISTING
SAWCUT REQUIRED

STA 101+50
REMOVE SMALL CULVERT PIPE 15-INCH CMP

REMOVE EXISTING BLOCK RETAINING WALL
STA. 101+21, 36' RT
GRADE FROM EDGE OF DRIVEWAY TO DITCH
N2892 HILLCREST DR

SLOPE INTERCEPT

SLOPE INTERCEPT

SEE CONSTRUCTION DETAIL
FOR N2892 HILLCREST DRIVE

N

1010
1005
1000
995

VPC STA 101+07.00
VPC EL 1002.57

VPI STA 101+22.00
VPI EL 1003.45

VPC STA 101+40.00
VPC EL 1004.01

VPI STA 101+80.00
VPI EL 1005.25

VPT STA 102+20.00
VPT EL 1004.30

EXISTING PROFILE

STA 102+81.50
EL 1002.83

STA 103+00.00
EL 1003.14

3.10%

-2.38%

1.68%

5.87%

HP STA 101+85.25
HP EL 1004.71

PROPOSED PROFILE ON ℄

VPT STA 101+37.00
VPT EL 1003.92

VCL = 30.00
K = 10.86

VCL = 80.00
K = 14.58

STA 101+04.00
EL 1002.39

1004.28
1004.28

1004.64
1004.64

1003.58
1003.58

1003.14
1003.14

100 101 102 103

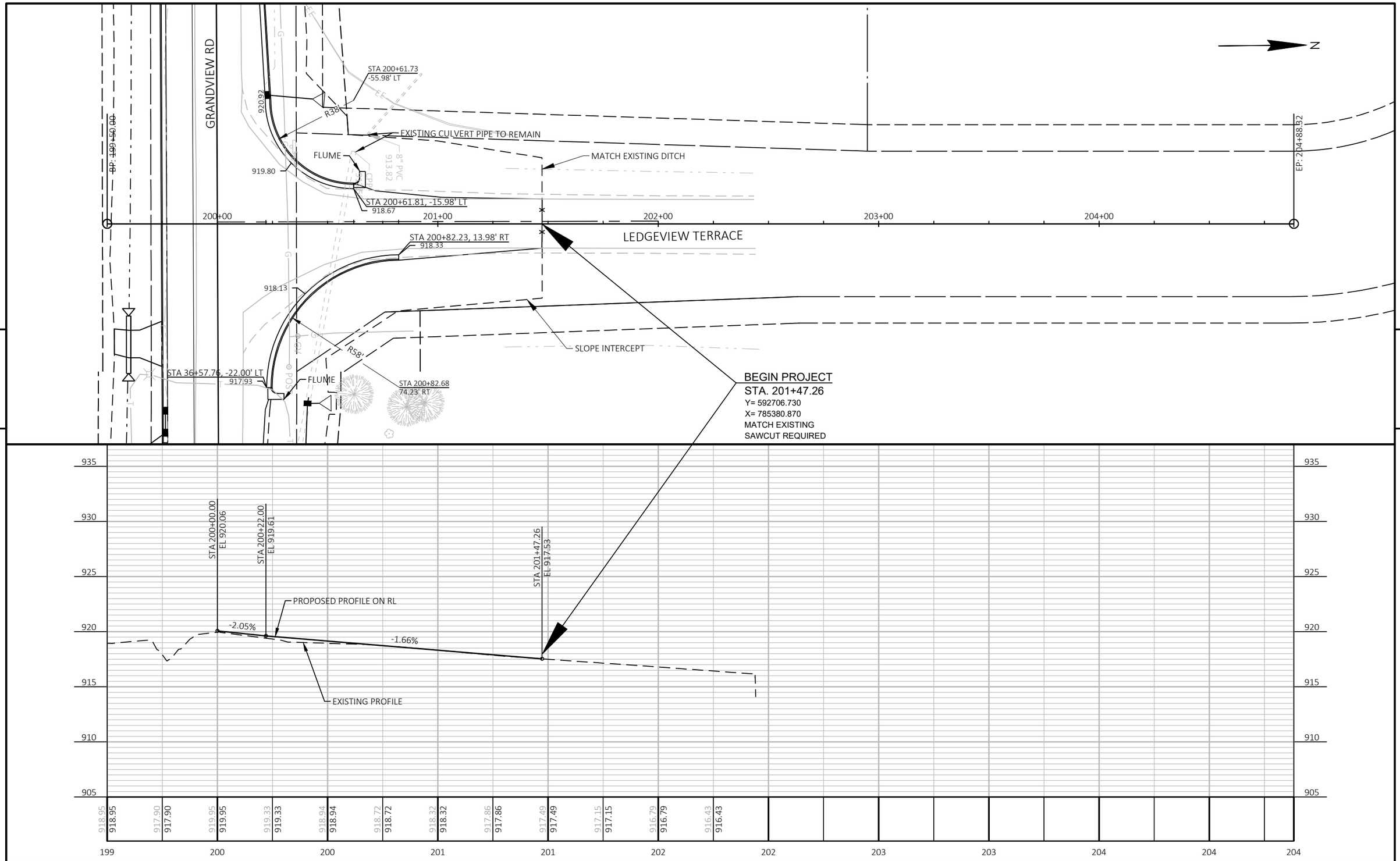
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: HILLCREST DRIVE	SHEET 71	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\HILLCREST ROAD PP.DWG
LAYOUT NAME - 01

PLOT DATE : 3/26/2025 2:47 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\Hillcrest Road PP.dwg, 3/26/2025 2:47:39 PM, Jelinski, 11



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: LEDGEVIEW TERRACE	SHEET 72	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\LEDGEVIEW TERRACE PP.DWG
LAYOUT NAME - 01

PLOT DATE : 3/26/2025 2:47 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\Ledgeview Terrace PP.dwg, 3/26/2025 2:47:53 PM, Jelinski, 1:1

GRANDVIEW RD

W7530 GRANDVIEW RD

ELEVATIONS SHOWN ARE TO FLANGE OF CURB AND GUTTER

BERM BEHIND DITCH FROM STA. 11+50 TO STA. 18+00. SEE CROSS SECTIONS FOR LOCATIONS.

W7666 GRANDVIEW RD

N

PROPOSED DITCH (TYP)

SLOPE INTERCEPT

EXISTING R/W

PLE

MATCH LINE 14+00

BP 9+00.00

PI 10+00.00

BEGIN CURB AND GUTTER

926.19

STA 11+45, -16.00' LT

926.46 929.34 932.60 936.24 940.26 944.66 949.42

35'

EX 24" CMP

EX 24" RCP

10+00 11+00 12+00 37' B-B 13+00 14+00

GRANDVIEW RD

BEGIN CURB AND GUTTER
STA 11+45, 16.00' RT

926.19 926.45 929.34 932.60 936.24 940.26 944.66 949.42

MATCH EXIST PROPOSED DITCH (TYP)
STA 10+31

EX 33"x49" CULVERT

GUY

NORTH ROAD

PLE

PROPOSED DITCH (TYP)

EXISTING R/W

SLOPE INTERCEPT

BEGIN CONSTRUCTION
STA 10+45.00
MATCH EXISTING
SAW CUT REQ'D

N2841 NORTH RD

N2852 NORTH RD

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

945 940 935 930 925 920 915

STA 14+00
EL 936.11

VCL = 75.00
K = 29.61

9.75%

EXISTING CL PROFILE

VPT STA 12+87.50
VPT EL 932.14

8.23%

VPC STA 12+12.50
VPC EL 926.91

VPI STA 12+50.00
VPI EL 929.05

PROPOSED CL PROFILE

NORTH DITCH PROFILE (TYP)

VCL = 50.00
K = 21.48

VPC STA 10+75.00
VPC EL 919.66

6.88%

VPI STA 11+00.00
VPI EL 920.50

STA 10+45.00
EL 918.64

5.70%

SOUTH DITCH PROFILE (TYP)

VPT STA 11+25.00
VPT EL 921.92

3.37%

VCL = 50.00
K = 8.42

VPC STA 10+75.00
VPC EL 915.23

0.95%

VPT STA 11+25.00
VPT EL 917.19

VPI STA 11+00.00
VPI EL 915.47

916.73 918.63 920.42 922.11 922.13 924.03 924.27 926.25 926.77 928.45 929.66 931.26 932.92 934.07 936.56 937.65 940.58 941.23 944.98

9 10 11 12 13 14

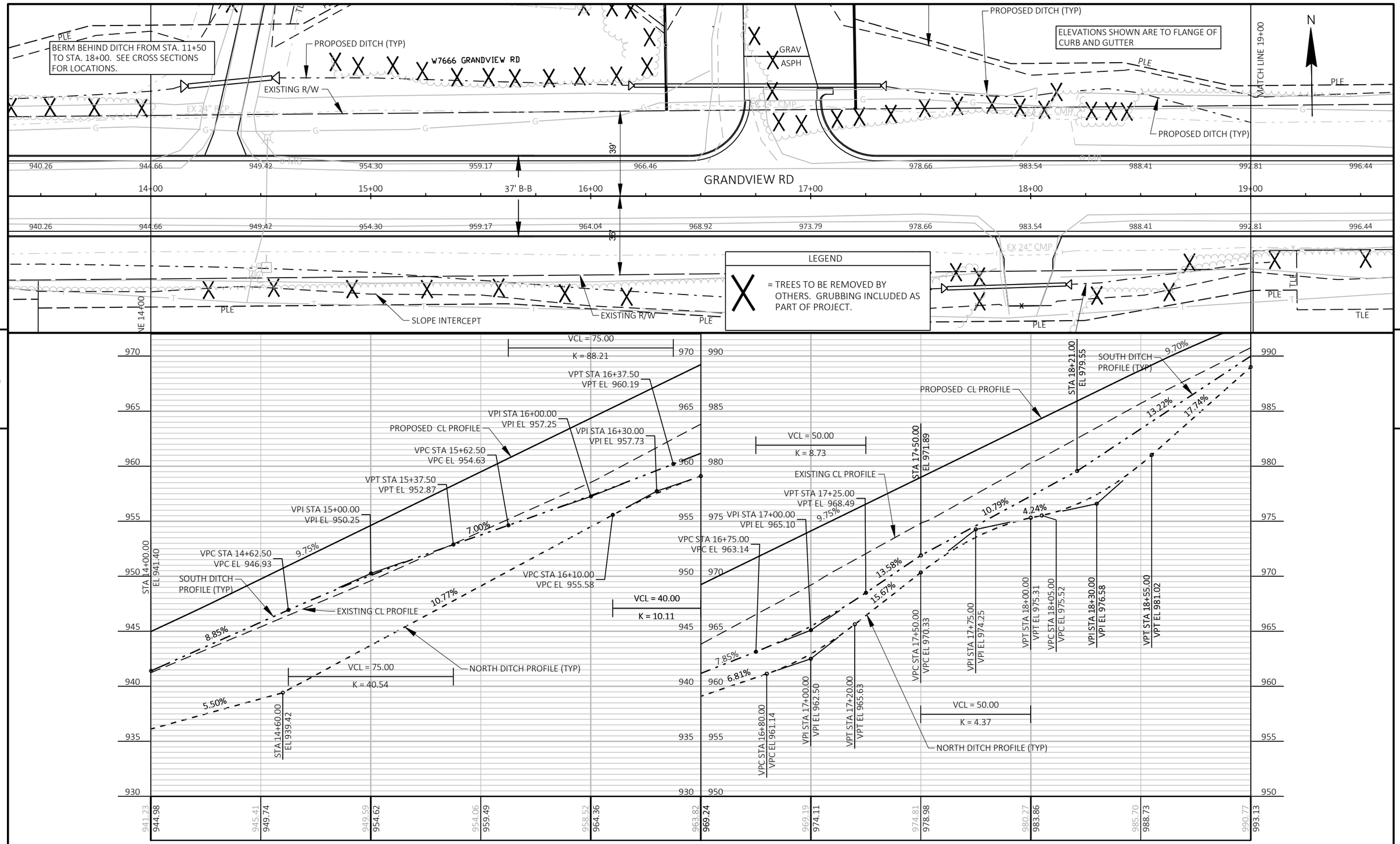
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN AND PROFILE WITH DITCH PROFILES & CURB ELEVATIONS	SHEET 73	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP WITH DITCH PROFILES.DWG
LAYOUT NAME - 01

PLOT DATE : 3/26/2025 2:48 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP With Ditch Profiles.dwg, 3/26/2025 2:48:05 PM, Jelinski, 1:1



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN AND PROFILE WITH DITCH PROFILES & CURB ELEVATIONS	SHEET 74	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP WITH DITCH PROFILES.DWG
LAYOUT NAME - 02
PLOT DATE : 3/26/2025 2:48 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP With Ditch Profiles.dwg, 3/26/2025 2:48:07 PM, Jelinski, 1:1

GRANDVIEW RD

ELEVATIONS SHOWN ARE TO FLANGE OF CURB AND GUTTER

W7610 GRANDVIEW RD

REMOVE CONCRETE
RESTORE WITH TOPSOIL, SEED, FERTILIZER & MULCH

W7602 GRANDVIEW RD

STARRY NIGHT DRIVE

EXISTING R/W

SLOPE INTERCEPT

PROPOSED DITCH (TYP)

PI: 21+00.00

PI: 23+00.00

MATCH LINE 24+00

MATCH LINE 19+00

42'

50'

24'

988.41 | 992.81 | 996.44 | 999.27 | 1001.32 | 1002.60 | 1003.09 | 1003.23 | 1003.03 | 1002.06 | 1000.36 | 997.86 | 994.56

19+00 | 20+00 | 37' B-B | 21+00 | GRANDVIEW RD | 22+00 | 23+00 | 24+00

STA 22+17.55, 16.00' RT

STA 23+02.44, 16.00' RT

1003.28 | 1003.10 | 1003.22 | 1002.06 | 1002.59 | 1003.12

R25.5'

ASPHALT FLUME

STA 22+17.55
43.50' RT

STA 23+02.44
43.50' RT

EX TOWER FACILITY

HILLCREST DRIVE

CLEAR & GRUB
STA. 18+25 - 24+25 RT

(SEE CONSTRUCTION DETAIL)
N2892 HILLCREST DR

HILLCREST DR

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

EXISTING CL PROFILE

PROPOSED CL PROFILE

9.75%

-9.89%

990.77	995.29	999.19	1002.39	1004.97	1006.66	1007.63	1007.37	1005.01	1001.56	997.33		
993.13	996.75	999.59	1001.64	1002.92	1003.41	1003.43	1003.28	1002.38	1000.68	998.18		
19		20		21		22		23		24		

1010 | 1005 | 1000 | 995 | 990 | 985 | 980

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN AND PROFILE WITH DITCH PROFILES & CURB ELEVATIONS	SHEET 75	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP WITH DITCH PROFILES.DWG
LAYOUT NAME - 03

PLOT DATE : 3/26/2025 2:48 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP With Ditch Profiles.dwg, 3/26/2025 2:48:08 PM, Jelinski, 1:1

STARRY NIGHT DRIVE

ELEVATIONS SHOWN ARE TO FLANGE OF CURB AND GUTTER

STARRY NIGHT DRIVE

GRANDVIEW RD

EXIST POND

849.01

N

SLOPE INTERCEPT

PROPOSED DITCH (TYP)

EXISTING R/W

CUT EX 8" PVC BACK TO PROPOSED DITCH BACK SLOPE

8" PVC
848.40

MATCH LINE 29+00

TLE

PLE

G

1000.36 997.86 994.56 990.45 985.63 980.68 975.74 970.79 965.85 960.90 955.99 951.38 947.14

GRANDVIEW RD

24+00 25+00 26+00 37' B-B 27+00 28+00 29+00

41'

25'

37' B-B

T

W

CLEAR & GRUB
STA. 18+25 - 24+25 RT

MATCH LINE 24+00

(SEE CONSTRUCTION DETAIL)
N2892 HILLCREST DR

SLOPE INTERCEPT

EXISTING R/W

PROPOSED DITCH (TYP)

W7415 GRANDVIEW RD

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

5

5

995 990 985 980 975 970 968

970 965 960 955 950 945 942

997.33 998.18 992.43 994.88 987.13 990.77 981.72 985.95 976.46 981.00 971.00 976.06 965.83 971.11 961.00 966.17 956.72 961.22 952.67 956.31 948.82 951.70

STA 24+50.00
EL 984.72

-9.89%

-21.08%

PROPOSED CL PROFILE

EXISTING CL PROFILE

STA 25+00.00
EL 985.28

NORTH DITCH PROFILE (TYP)

-12.64%

SOUTH DITCH PROFILE (TYP)

-13.81%

-12.64%

STA 26+35.00
EL 958.57

NORTH DITCH PROFILE (TYP)

VCL = 75.00

K = 11.87

VPC STA 27+02.50
VPC EL 959.69

VPI STA 27+40.00
VPI EL 954.95

VPT STA 27+77.50
VPT EL 952.58

STA 28+00.00
EL 944.42

STA 28+50.00
EL 948.00

-10.57%

STA 27+00.00
EL 951.70

SOUTH DITCH PROFILE (TYP)

-9.89%

PROPOSED CL PROFILE

EXISTING CL PROFILE

-7.28%

-6.32%

-6.62%

24 25 26 27 28 29

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN AND PROFILE WITH DITCH PROFILES & CURB ELEVATIONS	SHEET 76	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP WITH DITCH PROFILES.DWG
LAYOUT NAME - 04

PLOT DATE : 3/26/2025 2:48 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP With Ditch Profiles.dwg, 3/26/2025 2:48:10 PM, JelinskiJ, 1:1

ELEVATIONS SHOWN ARE TO FLANGE OF CURB AND GUTTER

W7530 GRANDVIEW RD

LEDGEVIEW TERRACE

N

CUT EX 8" PVC BACK TO PROPOSED DITCH BACK SLOPE

EXISTING R/W

SLOPE INTERCEPT

PROPOSED DITCH (TYP)

REMOVE RIPRAP WITHIN GRADING LIMITS. MATCH DITCH TO RIPRAP

MATCH LINE 34+00

PLE

8" PVC 848.40

TOP 848.28

EX 30" CMP

PI: 35+50.00

37'

955.99 951.38 947.14 943.29 939.80 936.69 933.96 931.60 929.61 927.97 926.40 924.83 924.27 923.21

29+00 30+00 31+00 32+00 33+00 34+00

GRANDVIEW RD

37' B-B

955.99 951.38 947.14 943.29 939.80 936.69 933.96 931.60 929.61 927.79 926.36 924.72 923.66 923.12

11'

EX 30" CMP

EX 18" CMP

MATCH LINE 29+00

GUY

SLOPE INTERCEPT

STA 33+05.91, 16.00' RT
START BYPASS LANE

STA 34+32.47, 23.00' RT

EXISTING R/W

PROPOSED DITCH (TYP)

W7415 GRANDVIEW RD

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

950 945 940 935 930 925 920

STA 30+00.00 EL 937.43

PROPOSED CL PROFILE

STA 31+00.00 EL 932.20

EXISTING CL PROFILE

STA 32+50.00 EL 926.20

-7.04%

-9.89%

-4.88%

-5.23%

-4.50%

-2.57%

-3.15%

-2.89%

-3.12%

NORTH DITCH PROFILE (TYP)

STA 30+50.00 EL 931.35

SOUTH DITCH PROFILE (TYP)

STA 32+00.00 EL 927.70

STA 33+50.00 EL 923.37

948.82 951.70 945.24 947.46 941.67 943.61 939.12 940.12 936.56 937.01 934.37 934.28 932.26 931.92 930.34 929.93 928.58 928.29 926.89 926.72 925.23 925.15

29 30 31 32 33 34

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN AND PROFILE WITH DITCH PROFILES & CURB ELEVATIONS	SHEET 77	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP WITH DITCH PROFILES.DWG
LAYOUT NAME - 05

PLOT DATE : 3/26/2025 2:48 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP With Ditch Profiles.dwg, 3/26/2025 2:48:11 PM, Jelinski, 1:1

ELEVATIONS SHOWN ARE TO FLANGE OF CURB AND GUTTER

LEDGEVIEW TERRACE

LEDGEVIEW TERRACE

LEDGEVIEW TERRACE

LEDGEVIEW TERRACE

W7474 GRANDVIEW RD

W7474 GRANDVIEW RD

BERM BEHIND DITCH FROM LEDGEVIEW TERRACE TO IMMEL RD ON THE NORTH SIDE OF GRANDVIEW RD. SEE CROSS SECTIONS FOR LOCATIONS.

N

RAP WITHIN ING LIMITS. TO RIPRAP

EXISTING R/W

PLE

STA 35+27.70 -62.00' LT

R38

FLUME

8" PVC 913.82

918.67

CPP

919.80

LEDGEVIEW TERRACE

918.33

STA 36+57.76 -82.00' LT

R58

SLOPE INTERCEPT

PROPOSED DITCH (TYP)

FLUME

24" CPP 913.40

PLE

PLE

MATCH LINE 38+99.97

PI 38+82.04

EX 24" CMP

EX 24" CPP

EX 24" CMP

918.13

STA 36+57.76, -22.00' LT

917.93

35'

34'

926.40 924.83 924.27 923.21 921.69 920.93

34+00 35+00 36+00 37+00 38+00 39+00

GRANDVIEW RD

11'

30'

32'

926.36 924.72 923.66 923.12 921.64 920.38 919.22 918.16 916.47

EX 24" CMP

MATCH LINE 34+00

PLE

12' BYPASS LANE

EXISTING R/W

SLOPE INTERCEPT

PLE

STA 36+82.47, 23.00' RT

END CURB AND GUTTER

PLE

STA 34+32.47, 23.00' RT

PROPOSED DITCH (TYP)

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

W7415 GRANDVIEW RD

W7415 GRANDVIEW RD

5

5

930 925 920 915 910 905 903

VCL = 50.00

K = 13.38

SOUTH DITCH PROFILE (TYP)

-5.70%

STA 35+00.00 EL 918.40

-2.33%

EXISTING CL PROFILE

STA 37+50.00 EL 911.38

PROPOSED CL PROFILE

STA 38+35.00 EL 910.95

-1.68%

-2.81%

-1.96%

NORTH DITCH PROFILE (TYP)

-0.50%

-0.51%

-1.05%

STA 37+00.00 EL 911.84

STA 38+68.00 EL 911.00

VPC STA 34+50.00 VPC EL 917.67

VPI STA 34+75.00 VPI EL 916.25

VPT STA 35+00.00 VPT EL 915.76

925.23 925.15 | 923.64 923.57 | 922.11 922.10 | 920.75 920.83 | 919.57 919.68 | 918.58 918.61 | 917.60 917.67 | 916.72 916.82 | 915.89 915.98 | 915.08 915.07 | 914.09 914.01

34 35 36 37 38 39

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN AND PROFILE WITH DITCH PROFILES & CURB ELEVATIONS	SHEET 78	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP WITH DITCH PROFILES.DWG
LAYOUT NAME - 06

PLOT DATE : 3/26/2025 2:48 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP With Ditch Profiles.dwg, 3/26/2025 2:48:13 PM, Jelinski, 1:1

BERM BEHIND DITCH FROM LEDGEVIEW TERRRACE TO IMMEL RD ON THE NORTH SIDE OF GRANDVIEW RD. SEE CROSS SECTIONS FOR LOCATIONS.

W7474 GRANDVIEW RD

W7458 GRANDVIEW RD

W7452 GRANDVIEW RD

W7415 GRANDVIEW RD

GRANDVIEW RD

EXISTING R/W

PROPOSED DITCH (TYP)

SLOPE INTERCEPT

3' PAVED SHOULDER (TYP)

2' GRAVEL SHOULDER (TYP)

UNNAMED TRIBUTARY TO BEAR CREEK (TYP)

MATCH LINE 43+99.97

MATCH LINE 38+99.97

END BYPASS LANE
STA 40+07.56, 11.00' RT

34'

32'

22'

39+00 40+00 41+00 42+00 43+00 44+00

PLE

EX 24" CMP

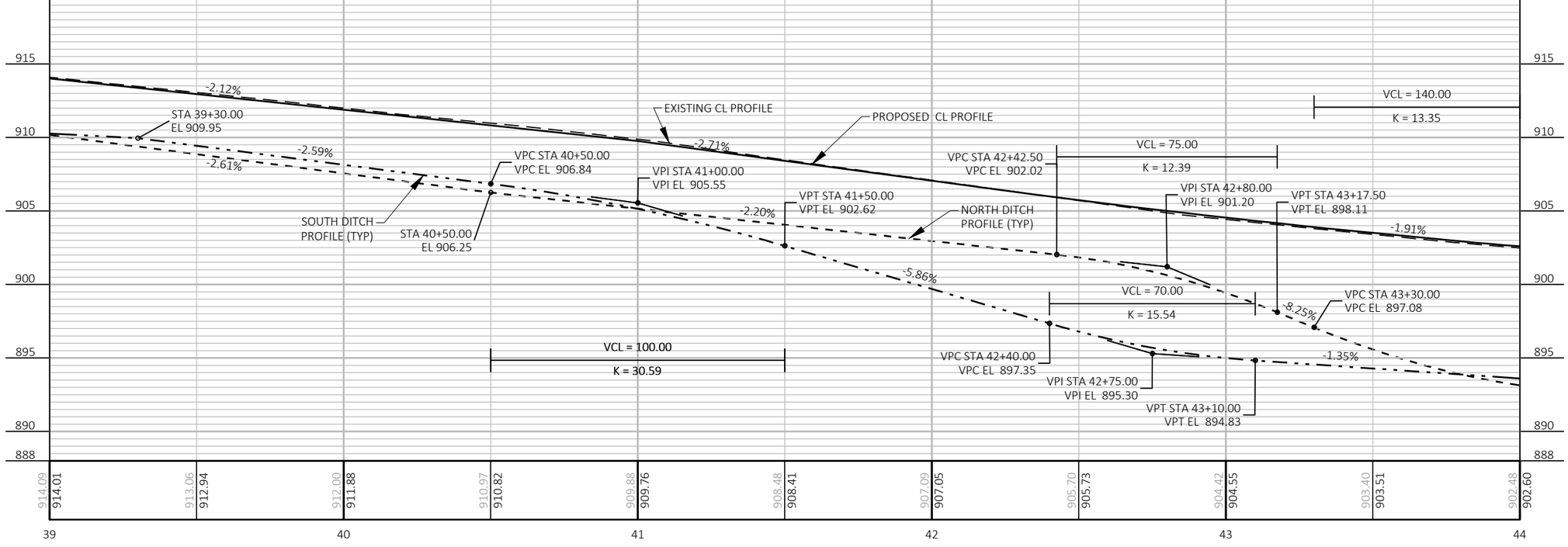
EX 54"x84" CMPA

EX 30" CMP

EX 18" CMP

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.



EXISTING WETLANDS (TYP)
(1,780 SF DISTURBED)

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN AND PROFILE WITH DITCH PROFILES & CURB ELEVATIONS	SHEET 79	E

FILE NAME : W:\PROJECTS\E00371\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP WITH DITCH PROFILES.DWG
LAYOUT NAME - 07

PLOT DATE : 3/26/2025 2:48 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E00371\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP With Ditch Profiles.dwg, 3/26/2025 2:48:15 PM, Jelinski, 1:1

ELEVATIONS SHOWN ARE TO FLANGE OF CURB AND GUTTER

BERM BEHIND DITCH FROM LEDGEVIEW TERRRACE TO IMMEL RD ON THE NORTH SIDE OF GRANDVIEW RD. SEE CROSS SECTIONS FOR LOCATIONS.

N

W7452 GRANDVIEW RD

W7416 GRANDVIEW RD

W7415 GRANDVIEW RD

W7415 GRANDVIEW RD

UNNAMED TRIBUTARY TO BEAR CREEK (TYP)

TWIN 10"

PLE

PI 43+99.97

3' PAVED SHOULDER (TYP)

2' GRAVEL SHOULDER (TYP)

PI 46+99.97

SLOPE INTERCEPT

PROPOSED DITCH (TYP)

EXISTING R/W

MATCH LINE 48+99.97

BIG MOCK

GRANDVIEW RD

44+00 45+00 46+00 47+00 48+00 49+00

22'

31'

35'

BEGIN CURB AND GUTTER
STA 45+75, 16.00' RT

END CURB AND GUTTER
STA 48+75, 16.00' RT

902.86 903.14 903.28 902.86 901.95 900.84 899.59 898.91

TLE

ASPHALT FLUME

EXISTING R/W

PROPOSED DITCH (TYP)

SLOPE INTERCEPT

MATCH LINE 43+99.97

EXISTING WETLANDS (TYP)
(1,780 SF DISTURBED)

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

VCL = 140.00
K = 13.35

EXISTING CL PROFILE

SOUTH DITCH PROFILE (TYP)

STA 45+50.00 EL 901.50

STA 46+00.00 EL 903.00

STA 46+50.00 EL 903.33

STA 47+00.00 EL 902.08

1.40% 3.00% 0.66% 2.50% 1.95%

PROPOSED CL PROFILE

VPI STA 47+00.00
VPI EL 898.50

-3.43%

2.62%

5.89%

2.57%

2.23%

1.11%

STA 44+13.00 EL 893.43

STA 45+50.00 EL 894.65

NORTH DITCH PROFILE (TYP)

VPC STA 46+62.50 VPC EL 897.54

HP STA 46+99.58 HP EL 898.01

VPT STA 47+37.50 VPT EL 897.52

VPI STA 44+00.00
VPI EL 891.30

LP STA 44+40.17 LP EL 892.53

VPT STA 44+70.00 VPT EL 892.86

VCL = 75.00
K = 14.45

910 905 900 895 890 885 883

902.48 902.60 | 902.00 902.14 | 902.16 902.23 | 902.89 902.83 | 903.86 903.46 | 904.17 903.60 | 903.63 903.18 | 902.53 902.27 | 901.27 901.16 | 899.83 899.91 | 898.40 898.54

44 45 46 47 48 49

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN AND PROFILE WITH DITCH PROFILES & CURB ELEVATIONS	SHEET 80	E

FILE NAME : W:\PROJECTS\E00371\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP WITH DITCH PROFILES.DWG
LAYOUT NAME - 08

PLOT DATE : 3/26/2025 2:48 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E00371\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP With Ditch Profiles.dwg, 3/26/2025 2:48:17 PM, Jelinski, 1:1

BERM BEHIND DITCH FROM LEDGEVIEW TERRRACE TO IMMEL RD ON THE NORTH SIDE OF GRANDVIEW RD. SEE CROSS SECTIONS FOR LOCATIONS.

W7416 GRANDVIEW RD

W7368 GRANDVIEW RD

N

MATCH LINE 53+99.97

3' PAVED SHOULDER (TYP)

2' GRAVEL SHOULDER (TYP)

SLOPE INTERCEPT

EXISTING R/W

PROPOSED DITCH (TYP)

PLE

BIG ROCK

EX 15" CMP

EX 24" CMP

GRANDVIEW RD

49+00 50+00 51+00 52+00 53+00 54+00

22'

31'

35'

END CURB AND GUTTER
STA 48+75, 16.00' RT
898.91
899.59

TLE

PLE

ASPHALT FLUME

MATCH LINE 48+99.97

PROPOSED DITCH (TYP)

SLOPE INTERCEPT

LEGEND

X = TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.

EXISTING R/W

PROPOSED DITCH (TYP)

*NOTE: LESS THAN 2 FEET OF SUBGRADE COVER WILL EXIST AT THIS CULVERT LOCATION. CONTRACTOR TO TAKE PRECAUTIONARY MEASURES DURING CONSTRUCTION TO MINIMIZE EQUIPMENT LOADING IMPACTS ON THE CULVERT

DRAINTILE EXPLORATION
LOCATE DRAINTILE AND DAYLIGHT TO DITCH

EXISTING WETLANDS (TYP)
(4,774 SF DISTURBED)

W7415 GRANDVIEW RD

W7415 GRANDVIEW RD

5

5

905 900 895 890 885 880 878

STA 49+50.00
EL 893.50

-2.76%

SOUTH DITCH PROFILE (TYP)

-2.62%

-2.76%

VCL = 150.00

K = 74.19

VPC STA 50+45.01
VPC EL 890.87

VPI STA 51+20.00
VPI EL 888.80

PROPOSED CL PROFILE

VPT STA 51+95.01
VPT EL 888.24

STA 52+50.00
EL 887.83

EXISTING CL PROFILE

STA 53+06.34
EL 887.42

STA 53+00.00
EL 889.00

STA 53+50.00
EL 887.09

-0.79%

2.33%

-2.50%

-0.74%

-0.74%

-0.74%

VPC STA 50+75.00
VPC EL 888.66

VPI STA 51+00.00
VPI EL 888.00

VPT STA 51+25.00
VPT EL 887.88

NORTH DITCH PROFILE (TYP)

VCL = 50.00

K = 23.50

898.40 898.54 | 897.02 897.15 | 895.61 895.77 | 894.26 894.39 | 893.14 893.20 | 892.27 892.35 | 891.62 891.82 | 891.19 891.43 | 890.82 891.04 | 890.23 890.64 | 889.78 890.25

49 50 51 52 53 54

PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN AND PROFILE WITH DITCH PROFILES & CURB ELEVATIONS	SHEET 81	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\PLAN SHEETS\WISDOT\GRAND VIEW PP WITH DITCH PROFILES.DWG
LAYOUT NAME - 09

PLOT DATE : 3/26/2025 2:48 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP With Ditch Profiles.dwg, 3/26/2025 2:48:20 PM, Jelinski, 1:1

BERM BEHIND DITCH FROM LEDGEVIEW TERRRACE TO IMMEL RD ON THE NORTH SIDE OF GRANDVIEW RD. SEE CROSS SECTIONS FOR LOCATIONS.

W7368 GRANDVIEW RD

N

MATCH LINE 58+99.97

PROPOSED DITCH (TYP)

EXISTING R/W

SLOPE INTERCEPT

3' PAVED SHOULDER (TYP)

2' GRAVEL SHOULDER (TYP)

PLE

31'

22'

35'

GRANDVIEW RD

54+00 55+00 56+00 57+00 58+00 59+00

NTILE EXPLORATION DAYLIGHT TO DITCH

MATCH LINE 53+99.97

EXISTING WETLANDS (TYP) (4,774 SF DISTURBED)

SLOPE INTERCEPT

PROPOSED DITCH (TYP)

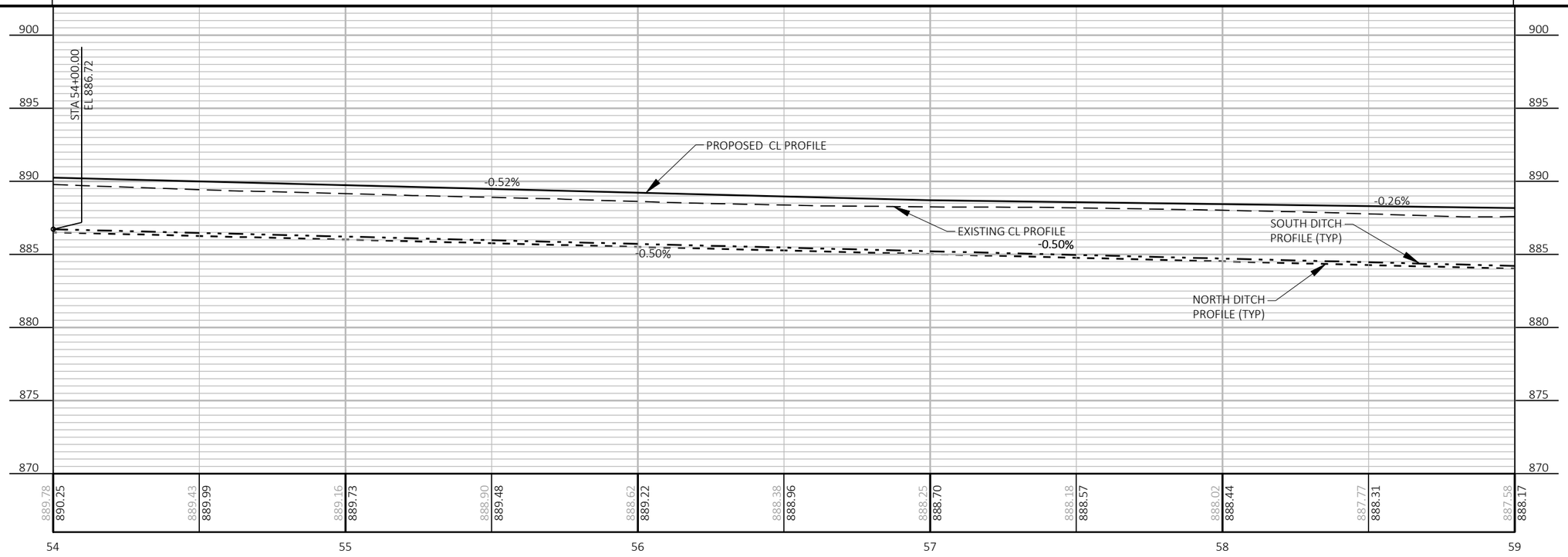
EXISTING R/W

EXISTING WETLANDS (TYP) (4,774 SF DISTURBED)

*NOTE: LESS THAN 2 LOCATION. CONTRA CONSTRUCTION TO

W7415 GRANDVIEW RD

LEGEND	
X	= TREES TO BE REMOVED BY OTHERS. GRUBBING INCLUDED AS PART OF PROJECT.



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN AND PROFILE WITH DITCH PROFILES & CURB ELEVATIONS	SHEET 82	E

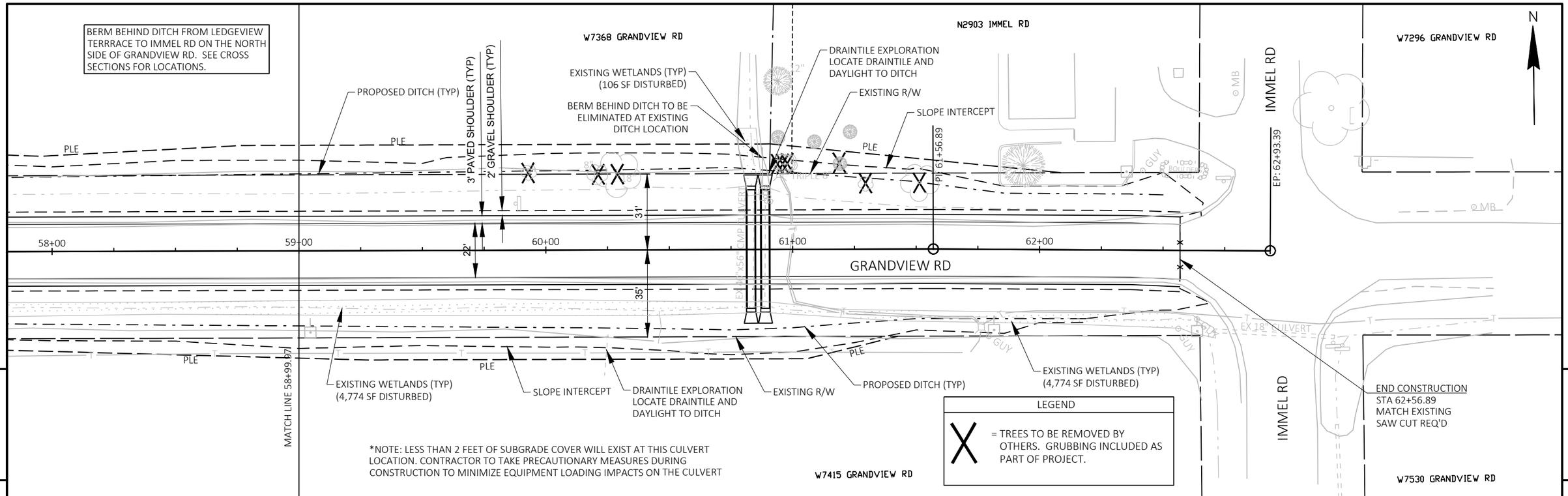
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LAYOUT NAME - 10

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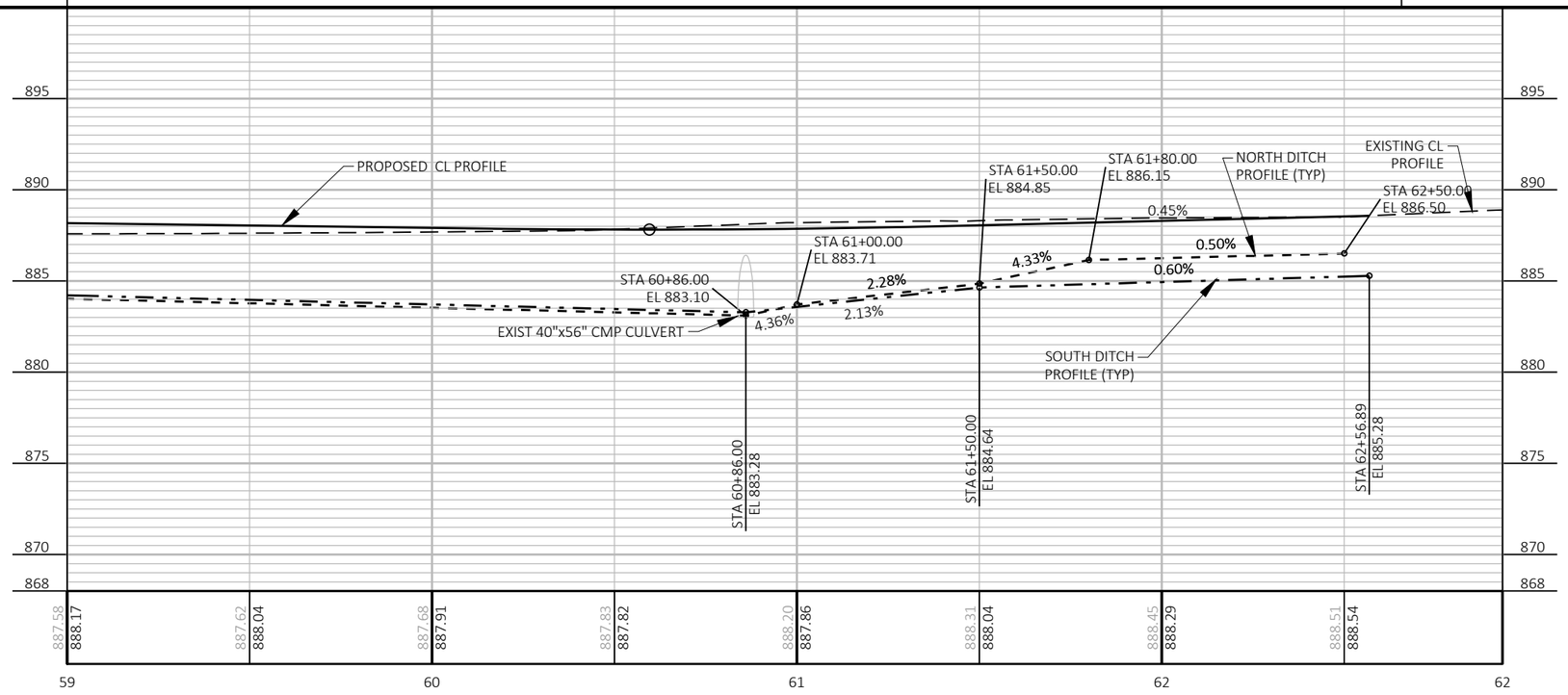
WISDOT/CADDS SHEET 44

W:\PROJECTS\E0037\082200420\CADD\Civil3D\Plan Sheets\WISDOT\Grand View PP With Ditch Profiles.dwg, 3/26/2025 2:48:22 PM, JelinskiJ, 1:1

BERM BEHIND DITCH FROM LEDGEVIEW TERRRACE TO IMMEL RD ON THE NORTH SIDE OF GRANDVIEW RD. SEE CROSS SECTIONS FOR LOCATIONS.



*NOTE: LESS THAN 2 FEET OF SUBGRADE COVER WILL EXIST AT THIS CULVERT LOCATION. CONTRACTOR TO TAKE PRECAUTIONARY MEASURES DURING CONSTRUCTION TO MINIMIZE EQUIPMENT LOADING IMPACTS ON THE CULVERT



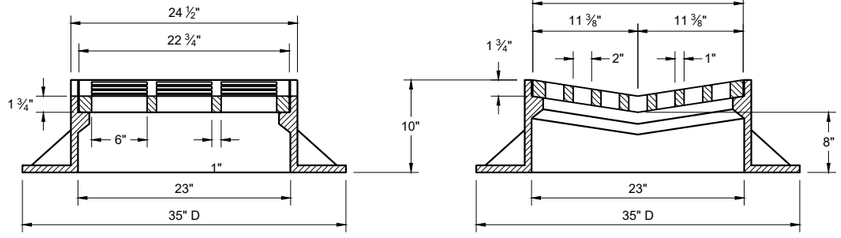
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	PLAN AND PROFILE: PLAN AND PROFILE WITH DITCH PROFILES & CURB ELEVATIONS	SHEET 83	E

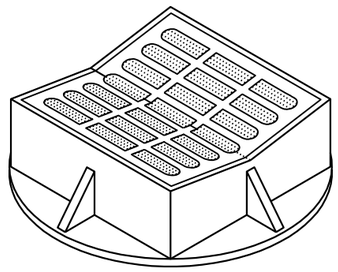
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WISDOT/CADDS SHEET 44

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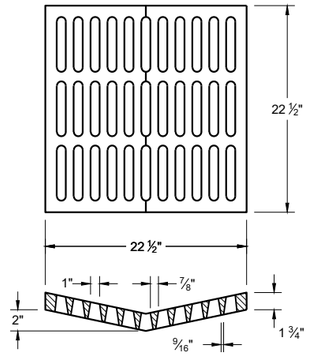
Standard Detail Drawing List

08A05-21B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-21C	INLET COVERS TYPE F, HM, HM-S, S, T, HM-GJ & HM-GJ-S
08C07-03	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT & 2X3.5-FT
08C08-03	INLETS MEDIAN 1 AND 2 GRATE
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS
08F10-02	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
13C19-03	HMA LONGITUDINAL JOINTS
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)





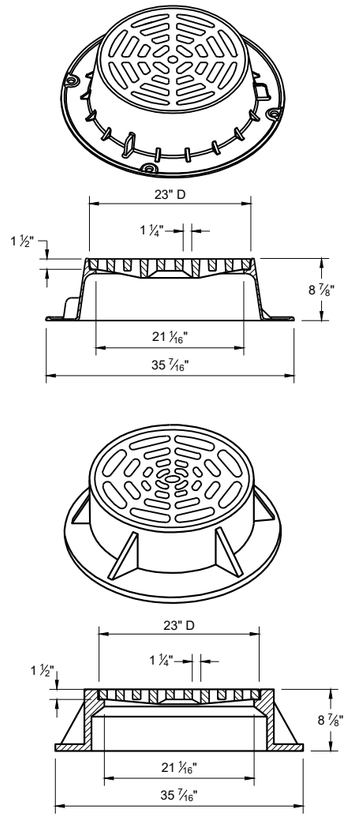
TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS POSSIBLE

NOTED AS TYPE B - A ON THE DRAINAGE TABLE



TYPE "C"

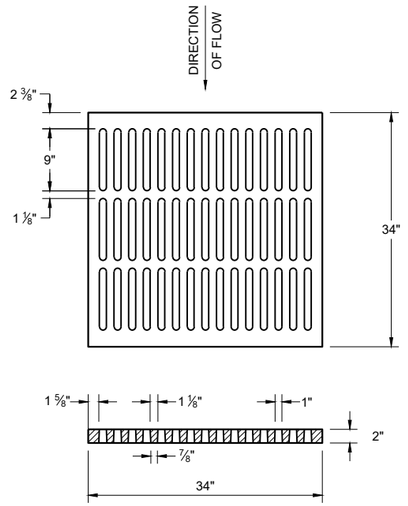
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

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

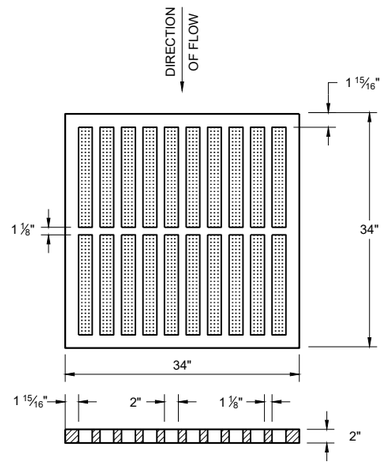
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS PERMITTED

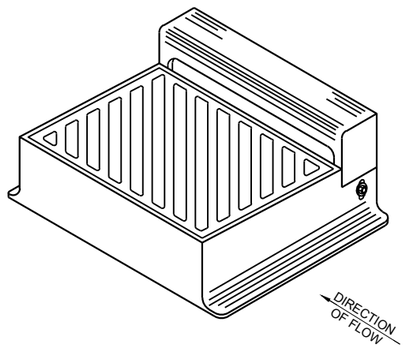
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



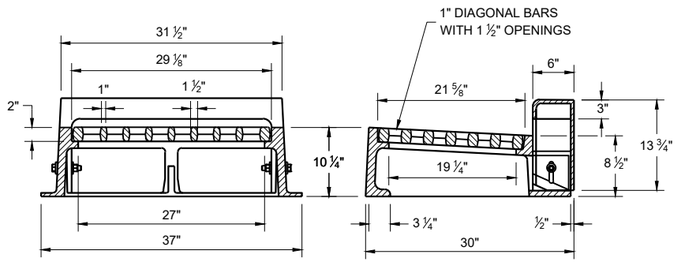
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON THE DRAINAGE TABLE



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



TYPE "WM"

NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

INLET COVERS TYPES B, B-A, C, MS, MS-A AND WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6

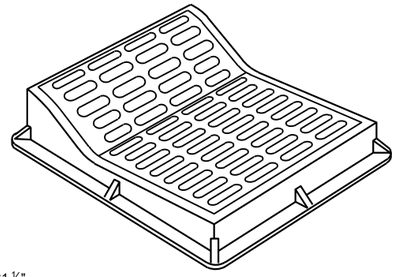
SDD 08A05-21b

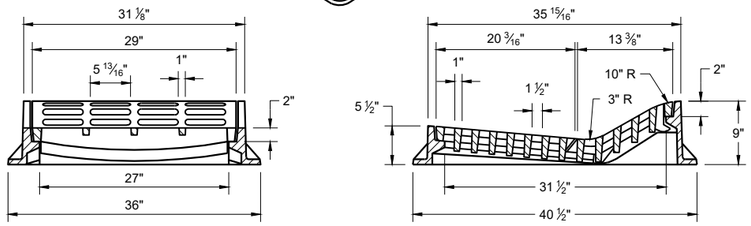
SDD 08A05-21b

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.

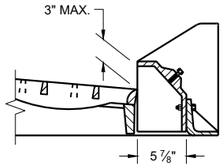
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.





TYPE "F"

USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"

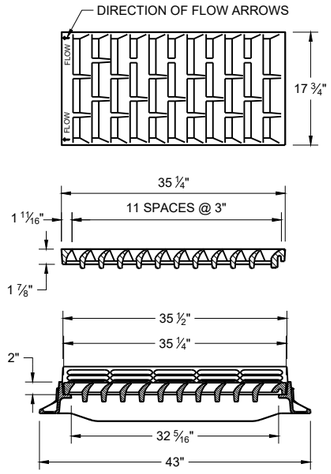


ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

USE WITH TYPES "G" AND "J" CONCRETE CURB AND GUTTER, 30 INCH
NOTED AS TYP "HM-GJ" ON DRAINAGE TABLE

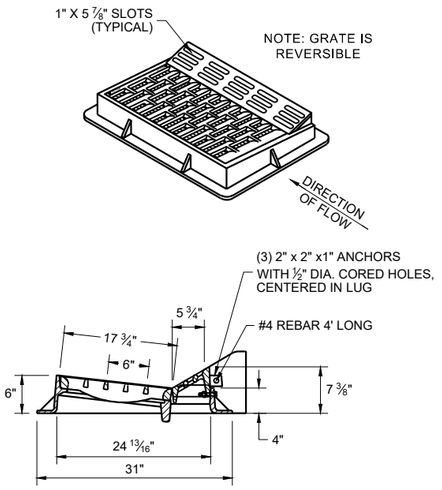
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.



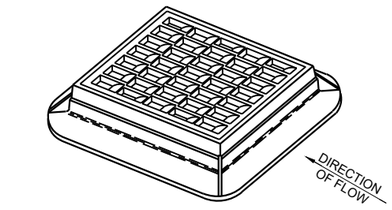
TYPE "HM"

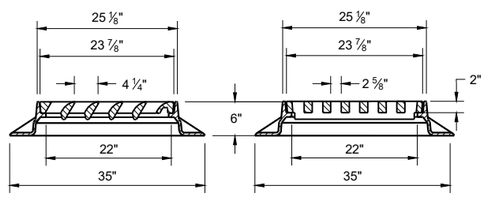
USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"



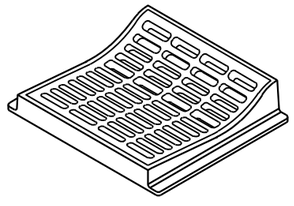
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

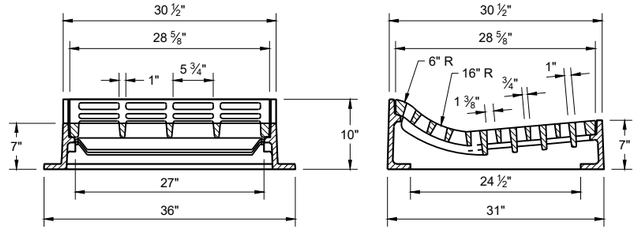
NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.





TYPE "S"





TYPE "T"

USE WITH TYPES "R" AND "T" CONCRETE CURB AND GUTTER, 36"

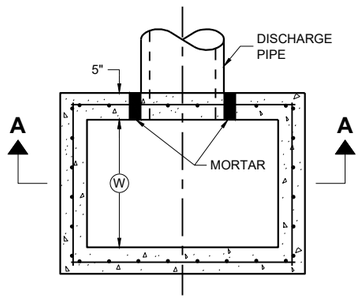
INLET COVERS
TYPES F, HM, HM-S, S, T, HM-GJ AND HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

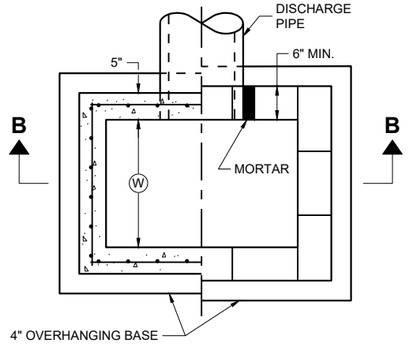
APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

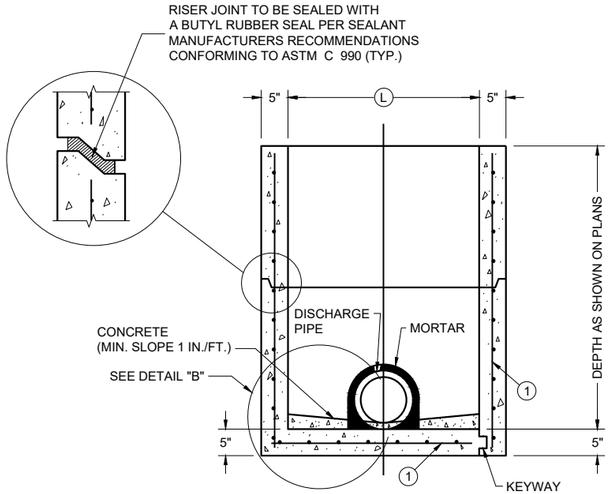
6
SDD 08A05-21c



PLAN VIEW



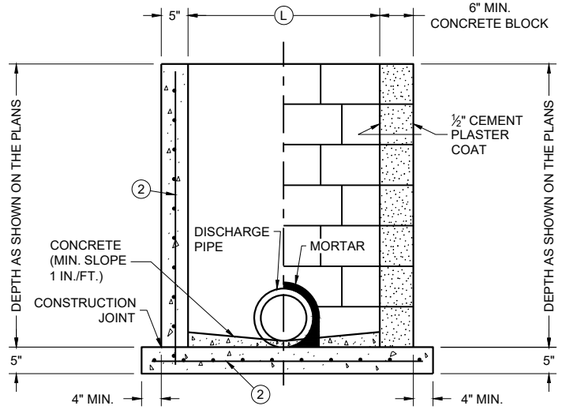
PLAN VIEW



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

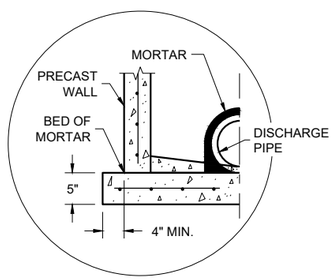
SECTION A - A



CAST IN PLACE REINFORCED CONCRETE

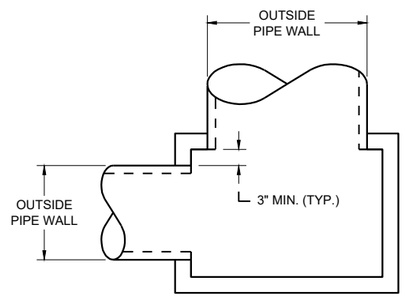
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

SECTION B - B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "B"



DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913
(2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

CATCH BASIN COVER MATRIX

INLET SIZE	WIDTH (W) (FT.)	LENGTH (L) (FT.)	INLET COVER TYPE									
			ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM	V V-B
2 X 2-FT	2	2	X	X				X				
2 X 2.5-FT	2	2.5			X			X	X	X	X	
2 X 3-FT	2	3					X					
2.5 X 3-FT	2.5	3				X						
2 X 3.5-FT	2	3.5										X

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2 X 2-FT	12	12
2 X 2.5-FT	12	18
2 X 3-FT	12	24
2.5 X 3-FT	18	24
2 X 3.5-FT	12	30

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2X3.5-FT

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2 X 3.5-FT

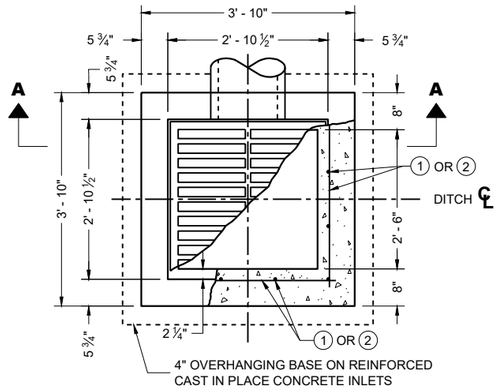
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023
DATE

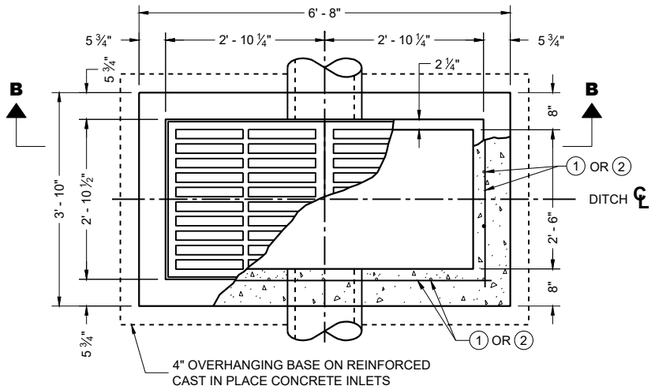
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

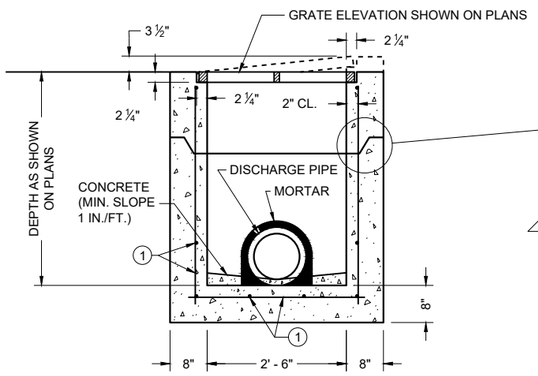
6
SDD 08C07-03



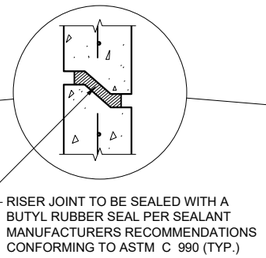
PLAN VIEW

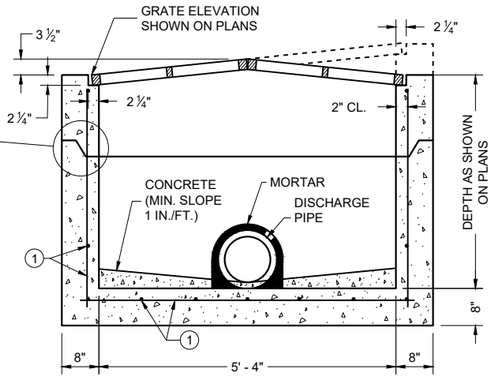


PLAN VIEW

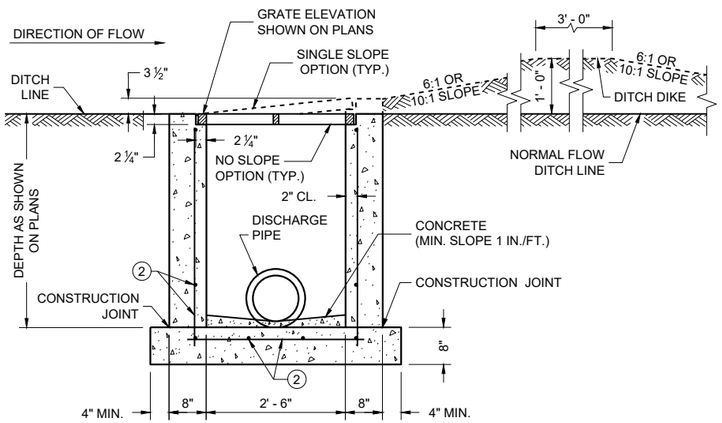


PRECAST REINFORCED CONCRETE SECTION A - A



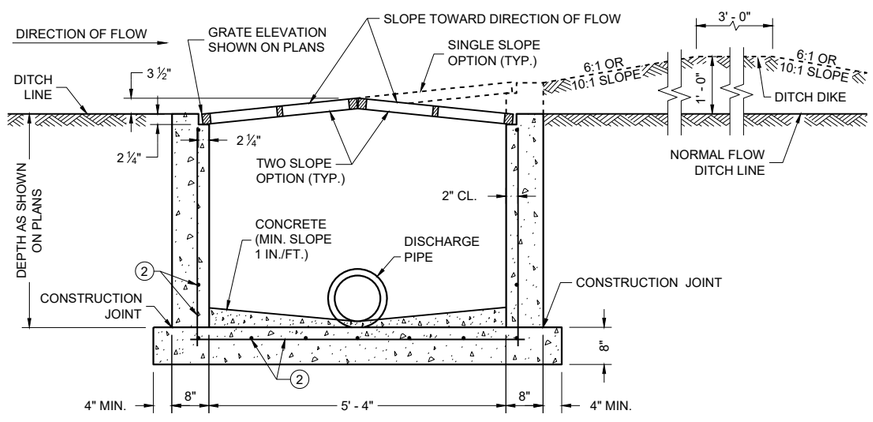


PRECAST REINFORCED CONCRETE SECTION B - B



REINFORCED CAST IN PLACE CONCRETE SECTION A - A

INLETS MEDIAN 1 GRATE



REINFORCED CAST IN PLACE CONCRETE SECTION B - B

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

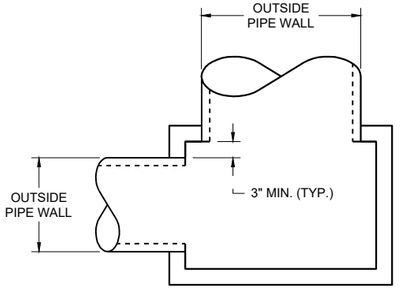
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

(2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.



DETAIL "A"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42

INLETS
MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

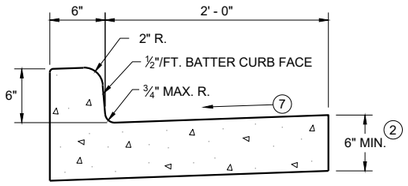
FHWA

6

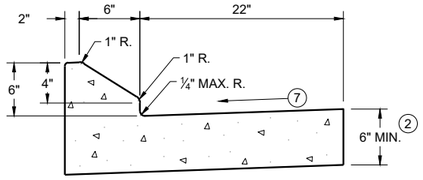
SDD 08C08-03

6

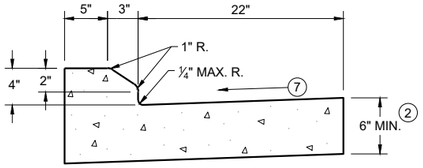
SDD 08C08-03



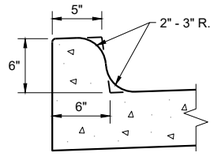
TYPES A (1) & D



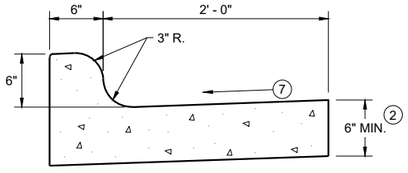
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

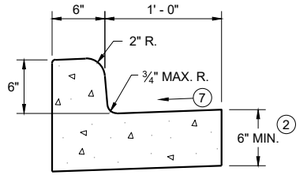


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



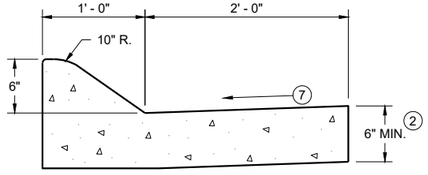
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

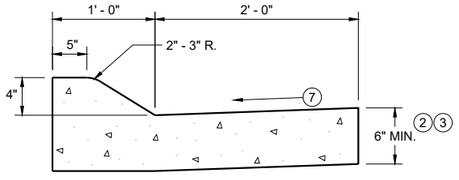


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

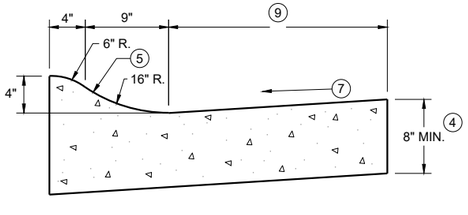


6" SLOPED CURB TYPES A (1) & D



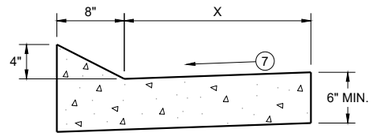
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

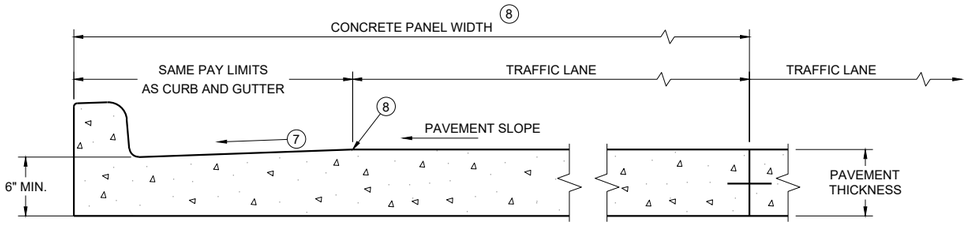


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

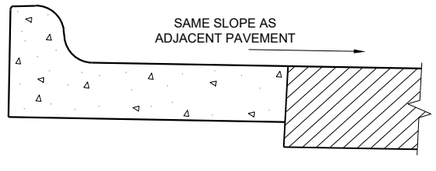
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

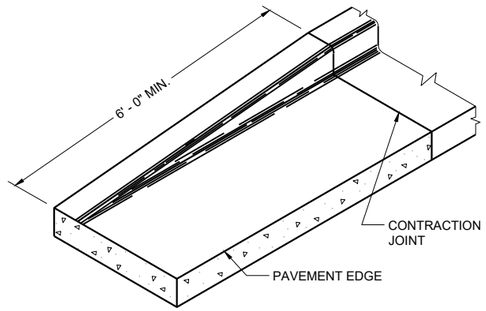
(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

(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

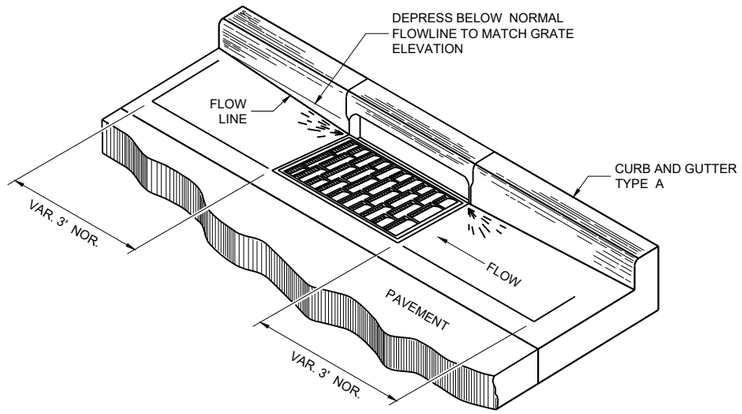
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D01-23a



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

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

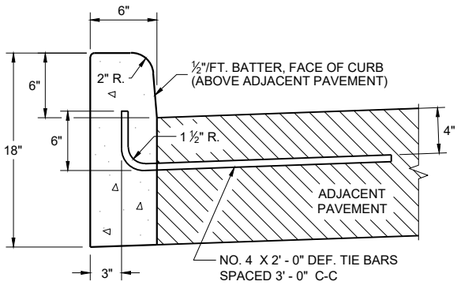
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

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

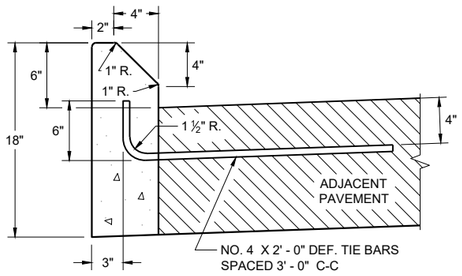
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

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

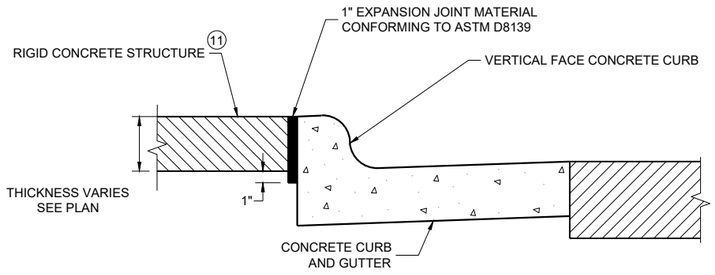


TYPES A (1) & D

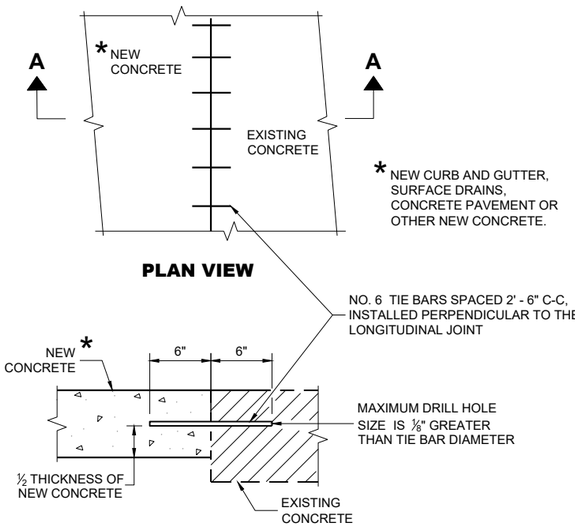


TYPES G (1) & J

CONCRETE CURB



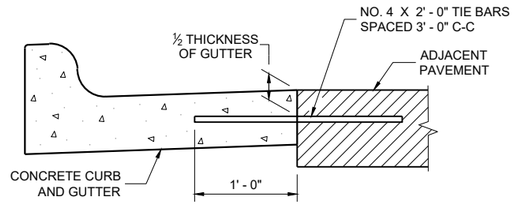
EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)



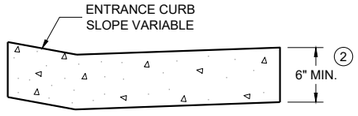
PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

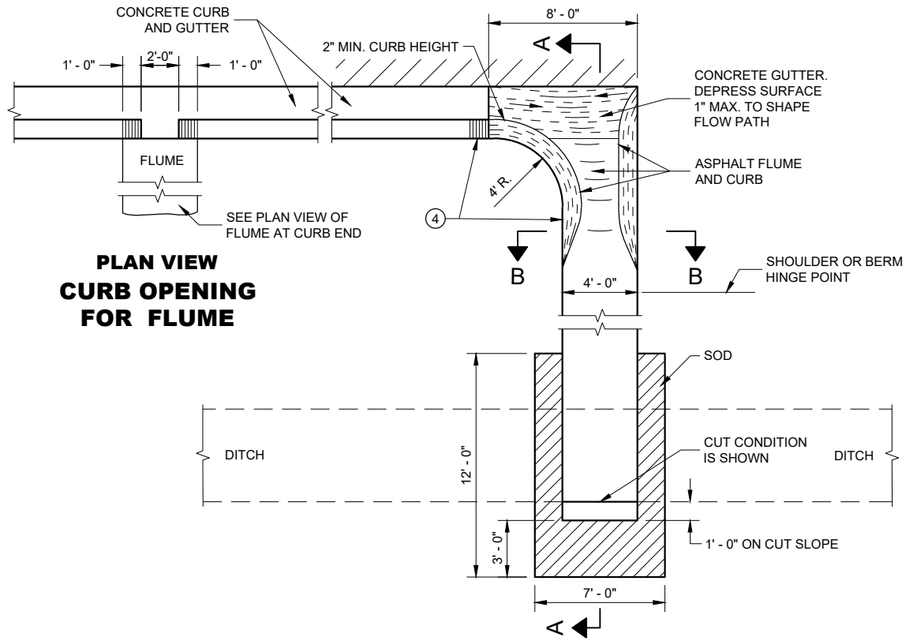
APPROVED
May 2023 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

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SDD 08D01-23b

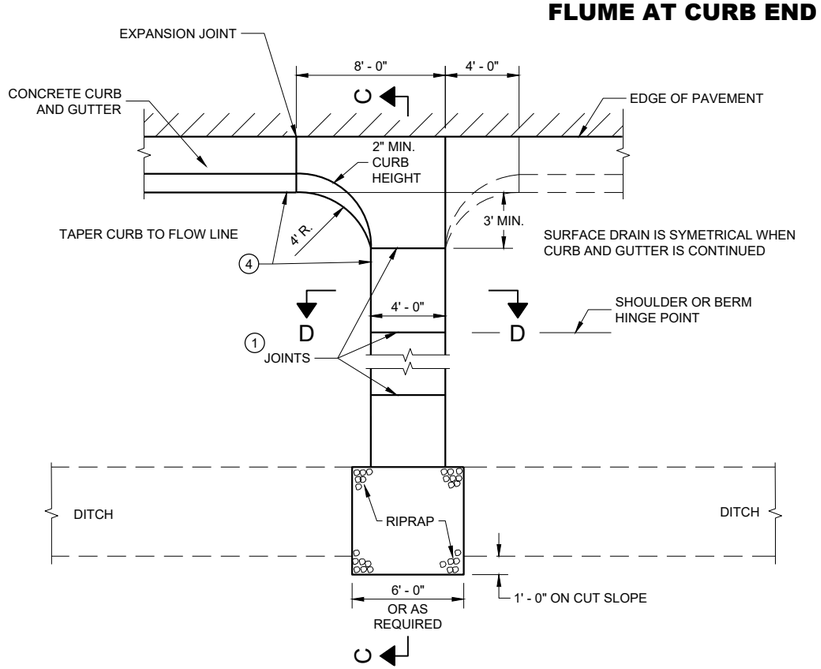
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



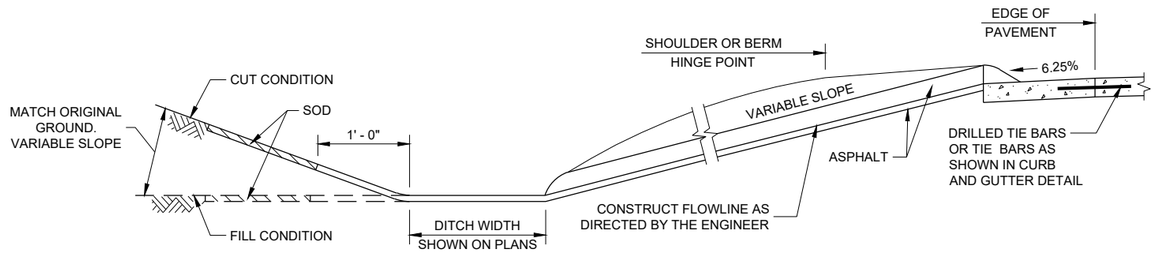
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

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

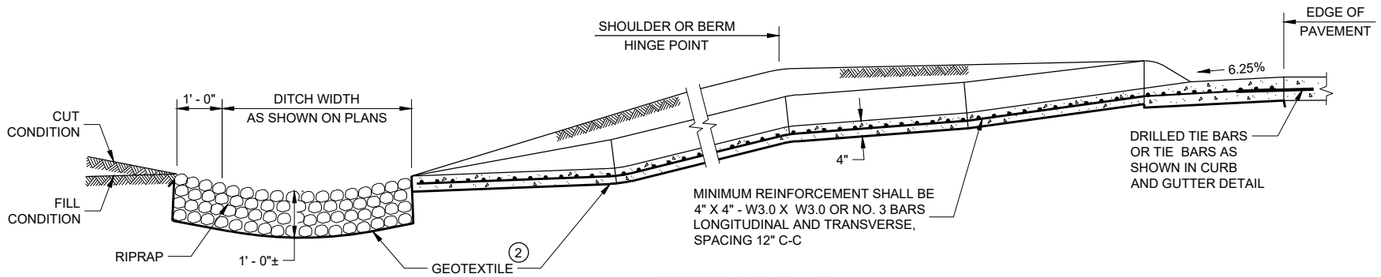
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

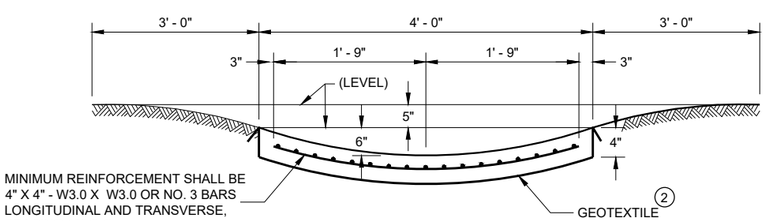


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

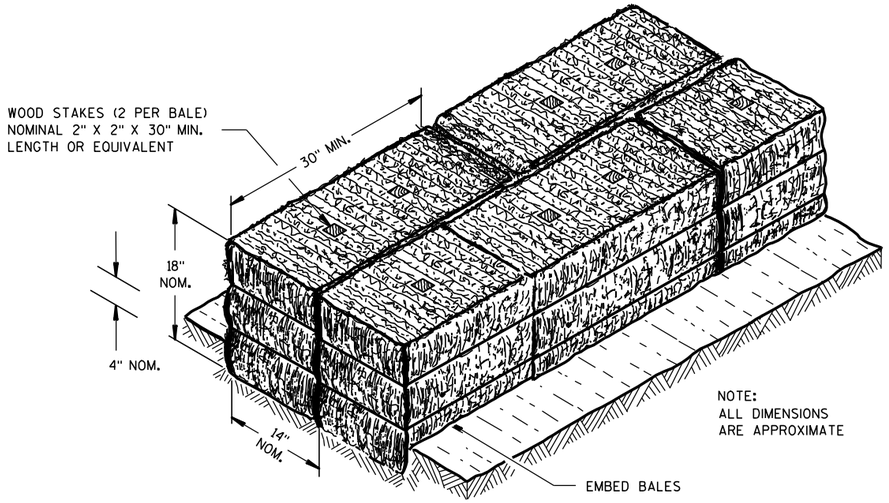
FHWA

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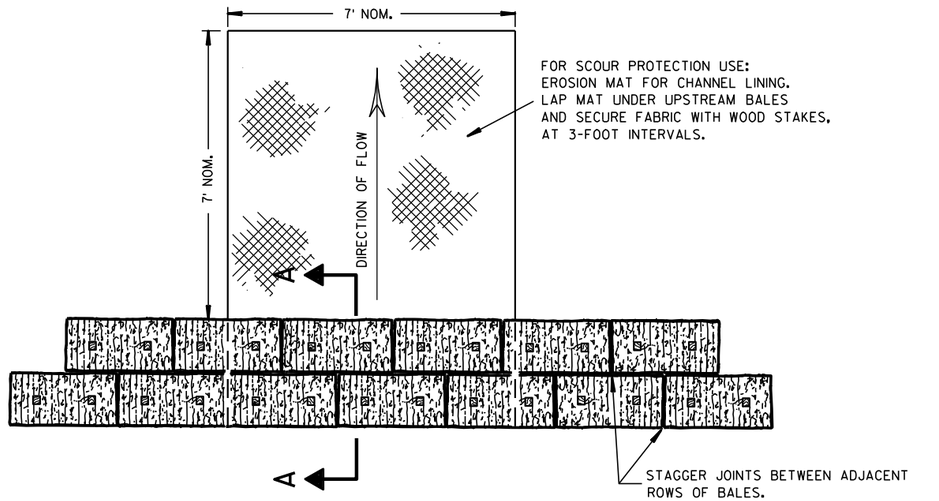
SDD 08D04 - 07

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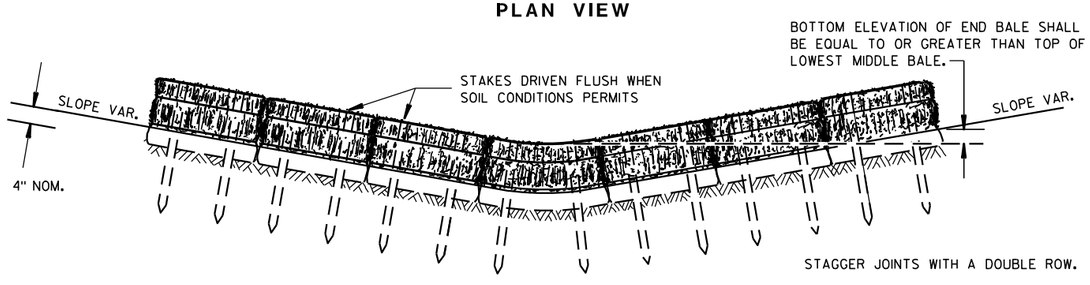
SDD 08D04 - 07



SECTION A-A



PLAN VIEW



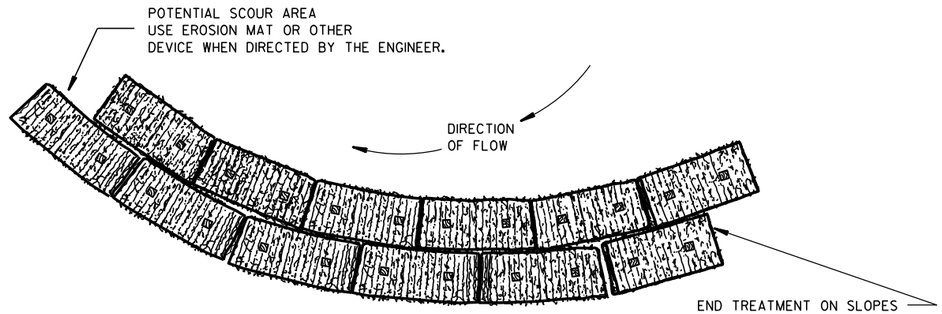
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

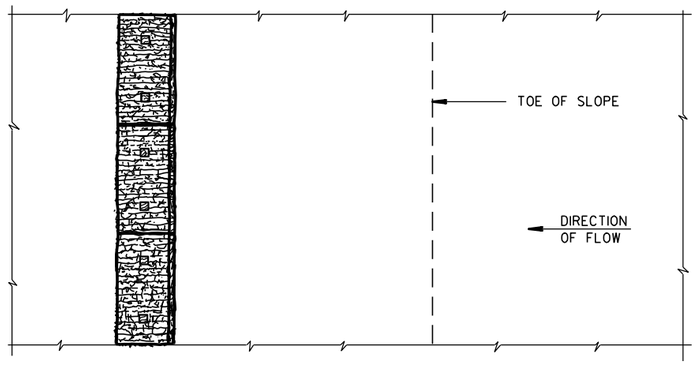
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

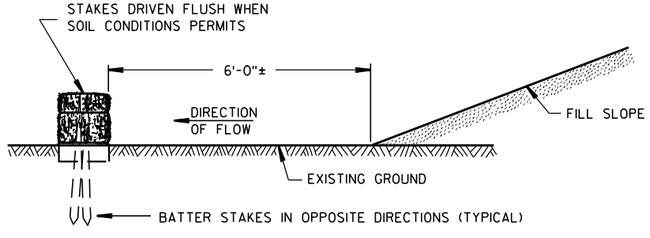


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

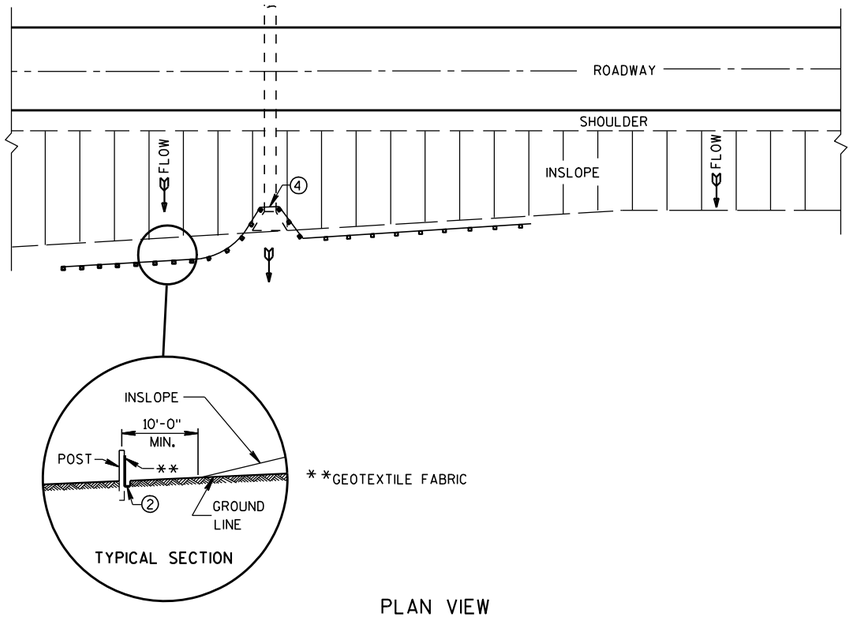
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

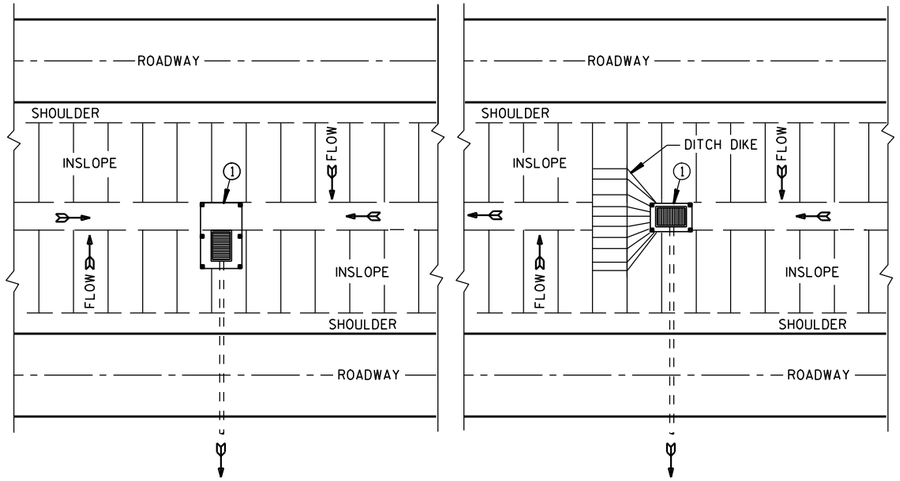
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



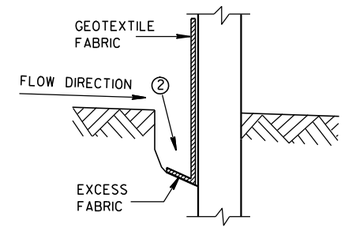
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

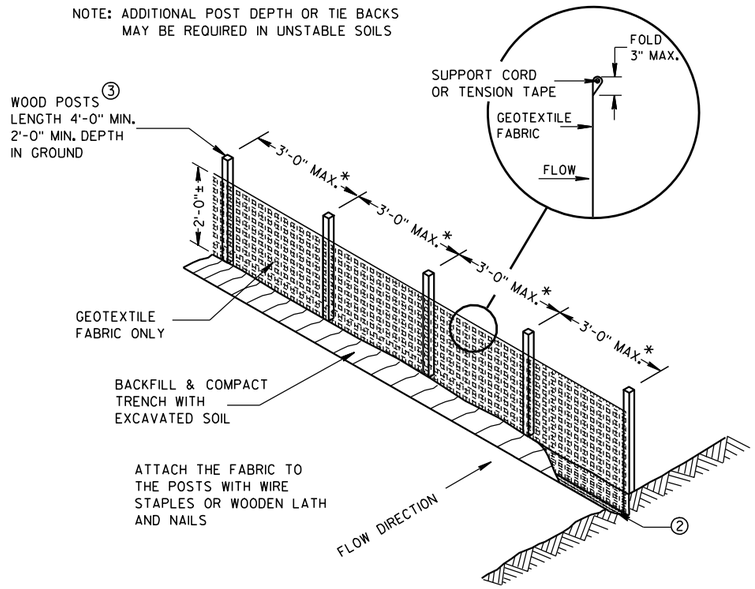
GENERAL NOTES

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

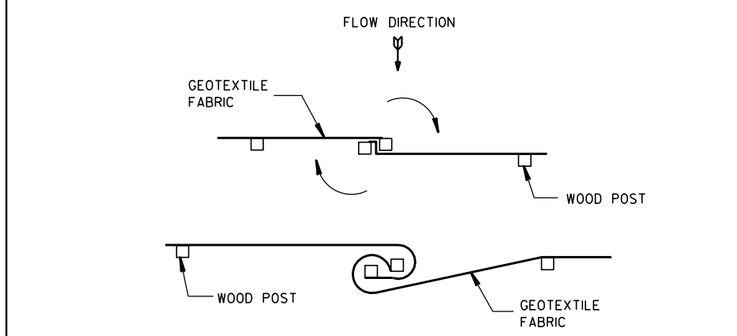
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL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



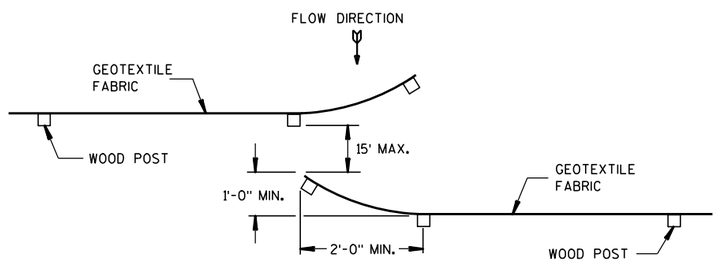
TRENCH DETAIL



SILT FENCE

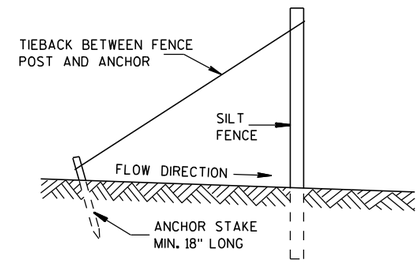


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

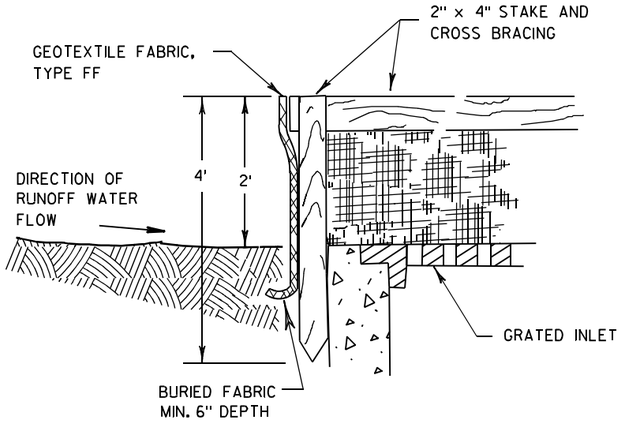
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

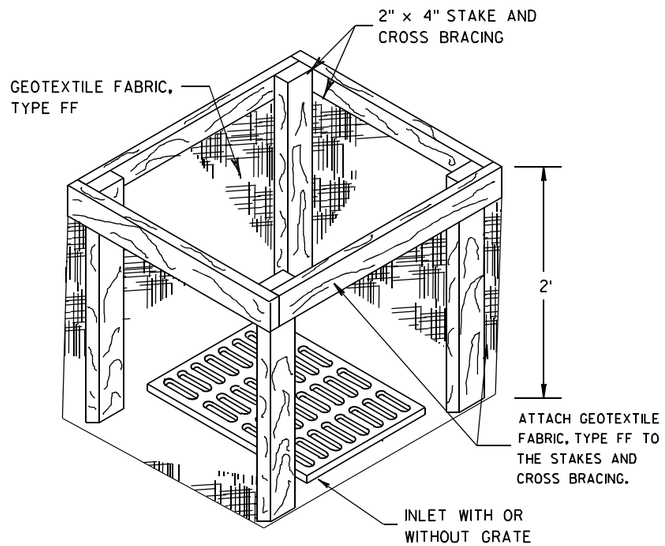
6

S.D.D. 8 E 9-6

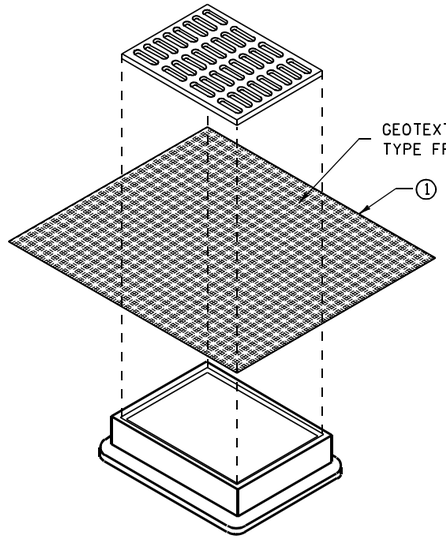
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S.D.D. 8 E 9-6



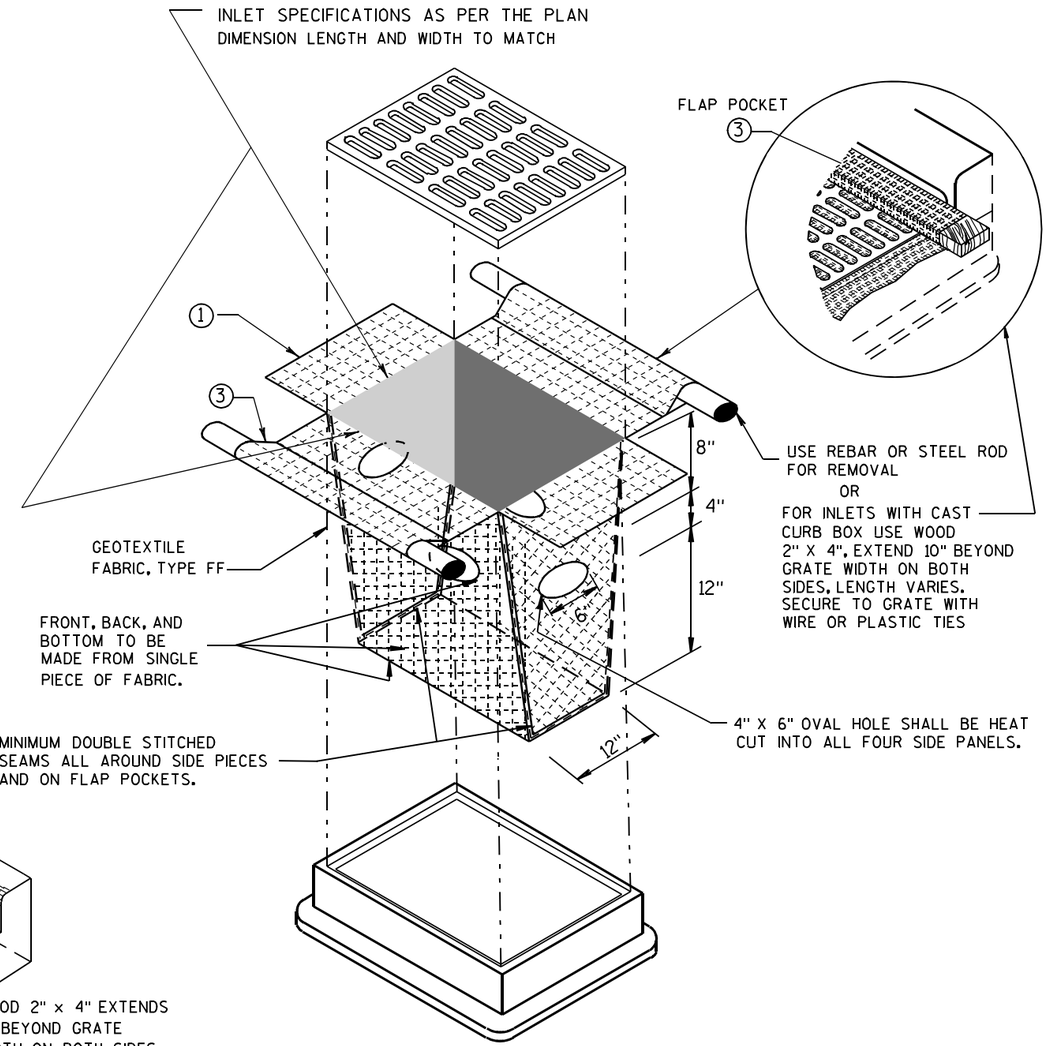


INLET PROTECTION, TYPE A



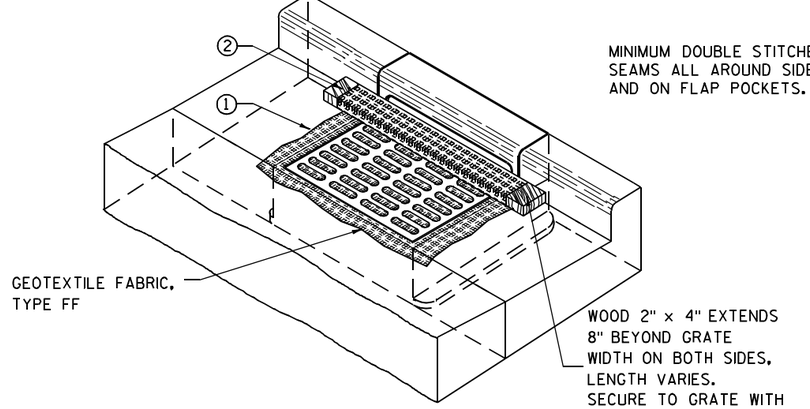
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE D

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

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

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

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

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

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

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

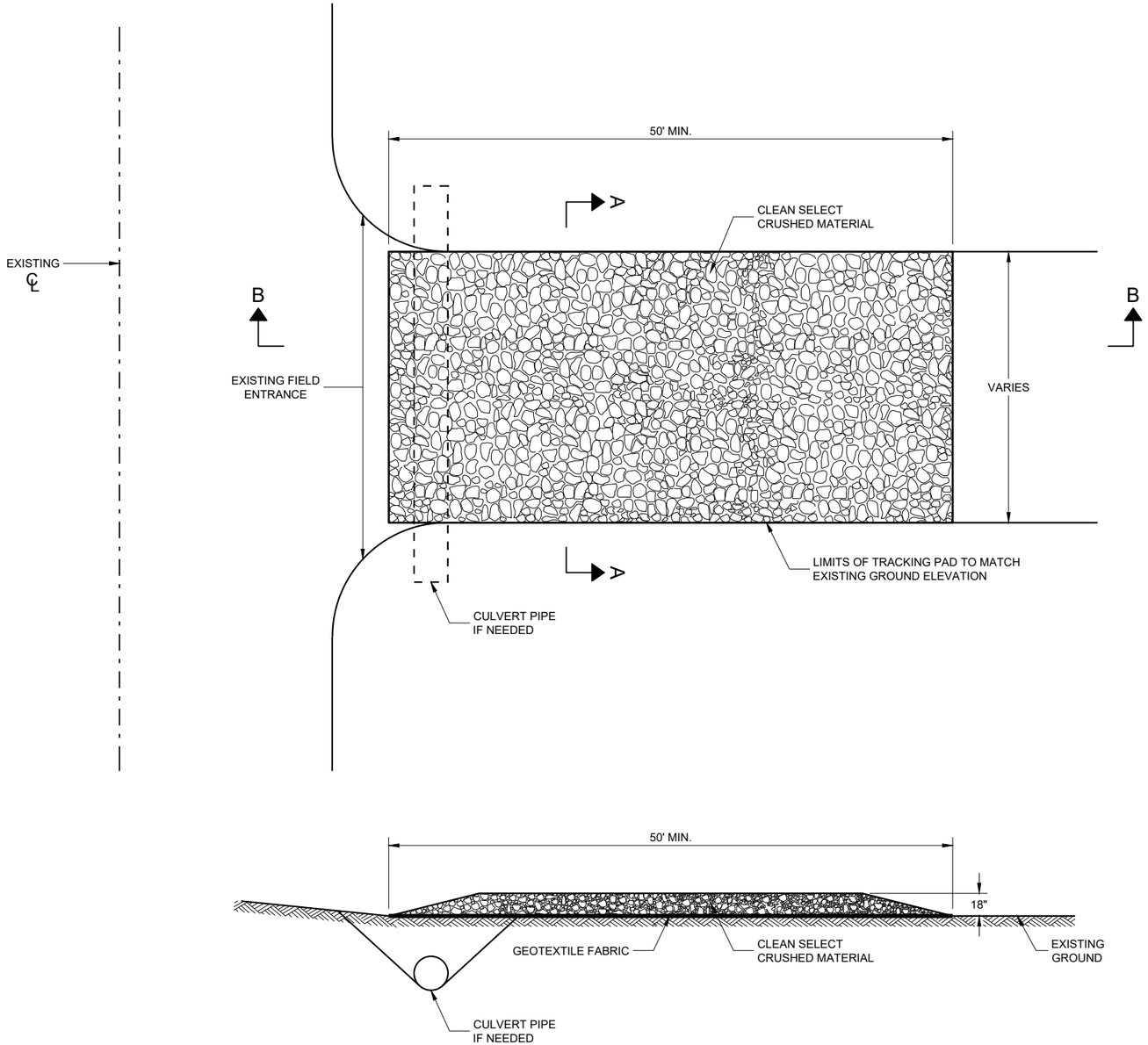
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



SECTION B - B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

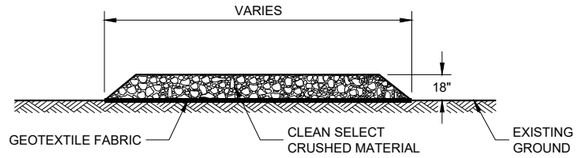
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

6

SDD 08E14 - 01

TRACKING PAD

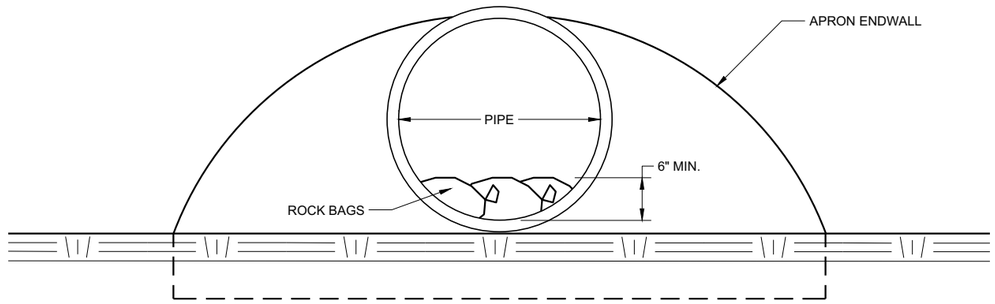
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

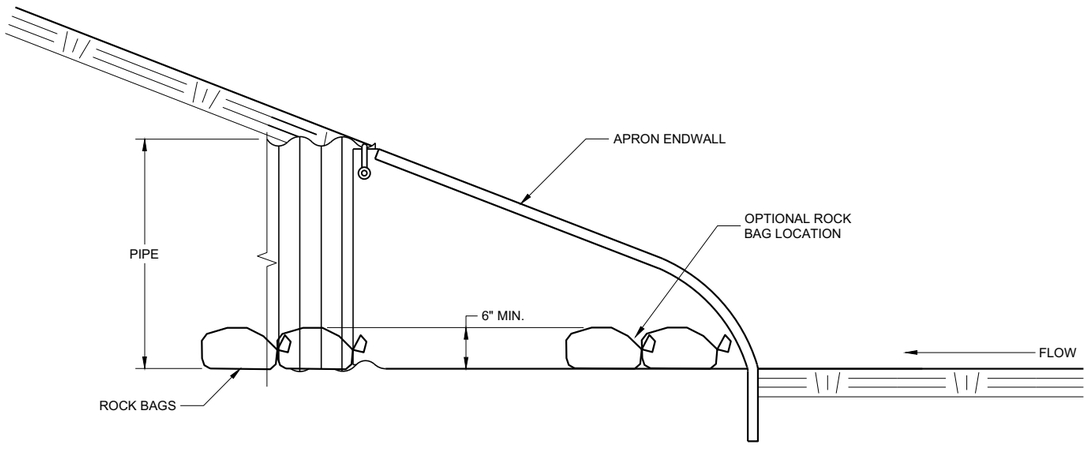
FHWA

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SDD 08E14 - 01



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE	/S/ Daniel Schave EROSION CONTROL ENGI
FHWA	

6
SDD 08E15 - 01

METAL APRON ENDWALLS

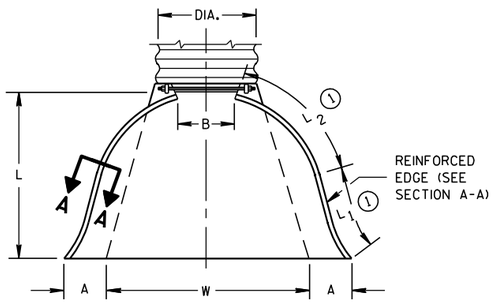
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

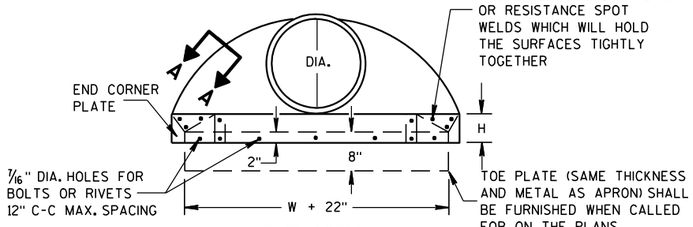
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

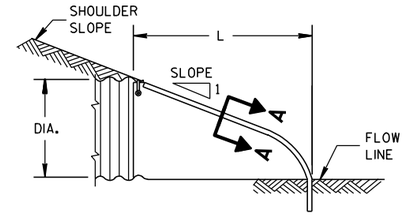
*MINIMUM
**MAXIMUM



PLAN VIEW

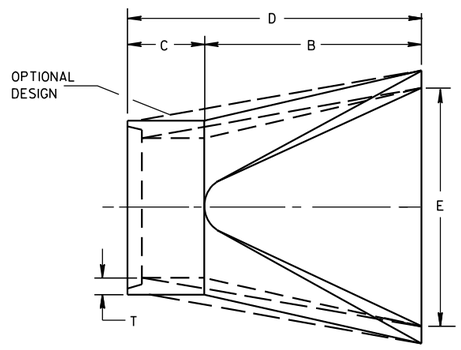


END VIEW

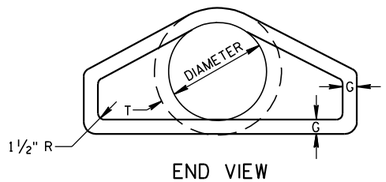


SIDE ELEVATION

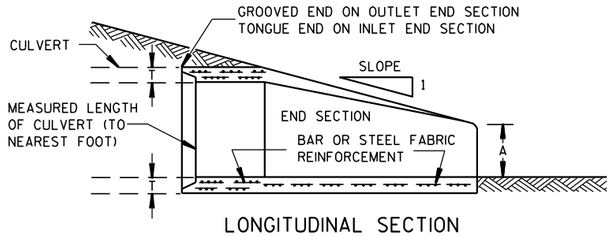
METAL ENDWALLS



PLAN

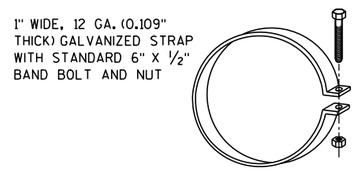


END VIEW



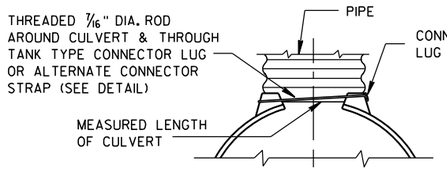
LONGITUDINAL SECTION

CONCRETE ENDWALLS

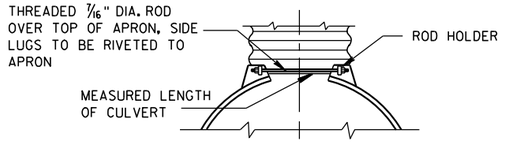


ALTERNATE FOR TYPE 1 CONNECTION

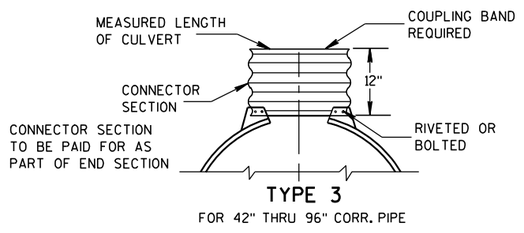
END SECTION CONNECTOR STRAP



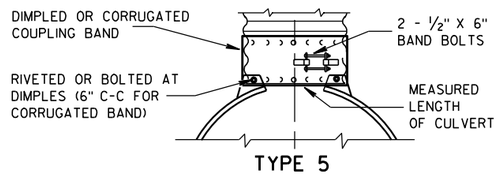
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

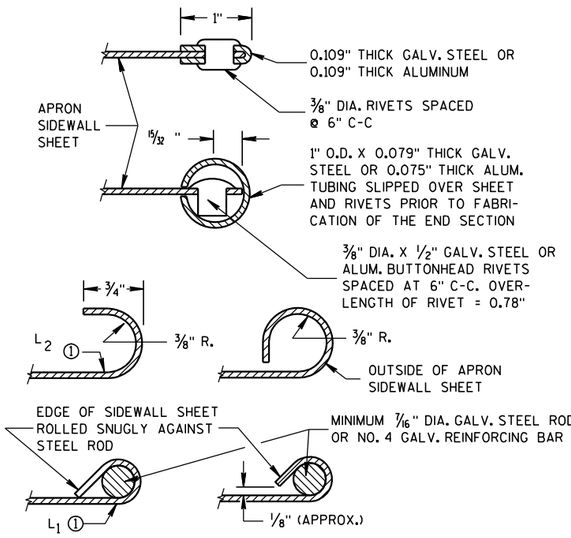
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

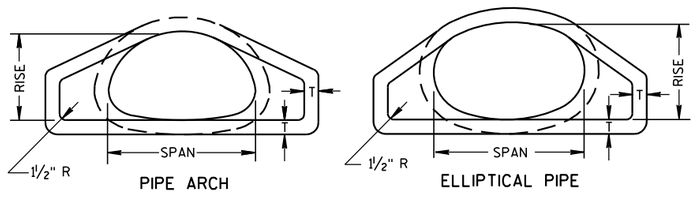
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

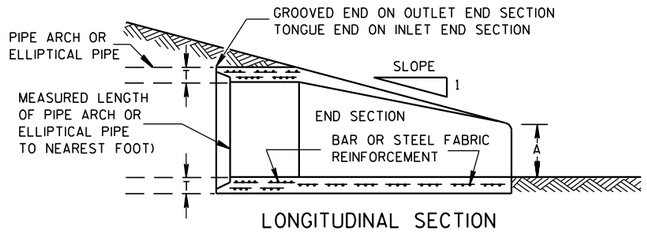
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

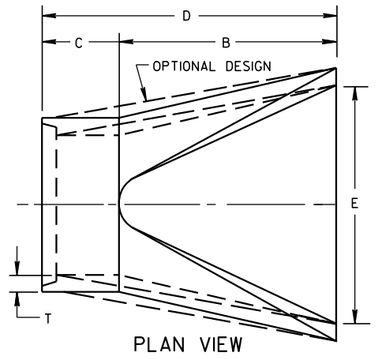
S.D.D. 8 F 1-11



END VIEW

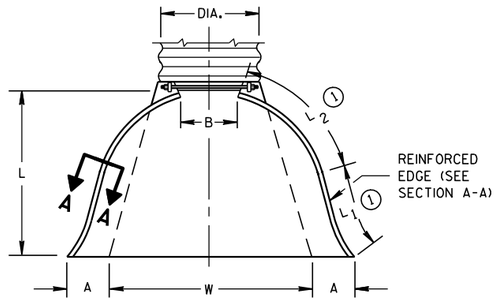


LONGITUDINAL SECTION

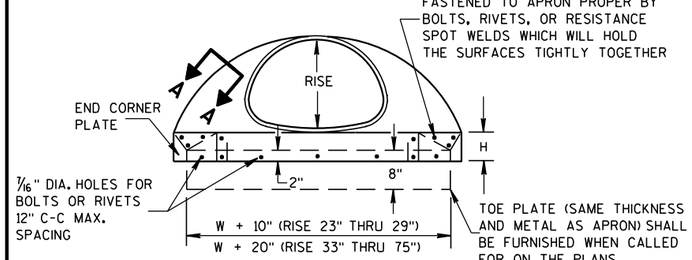


PLAN VIEW

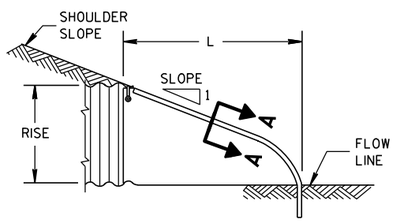
CONCRETE ENDWALLS



PLAN VIEW

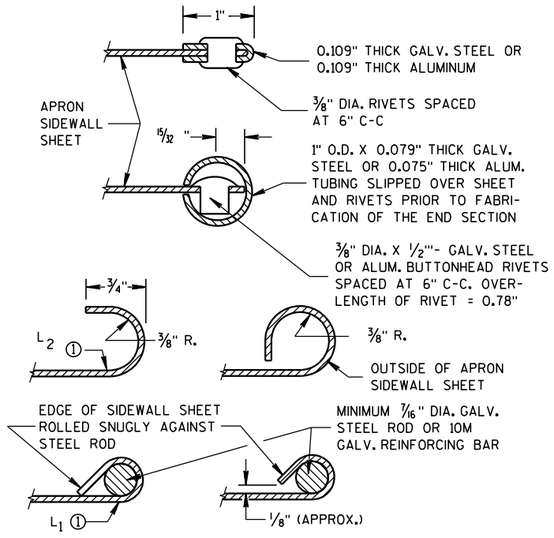


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

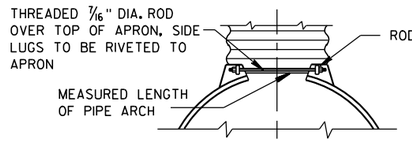
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

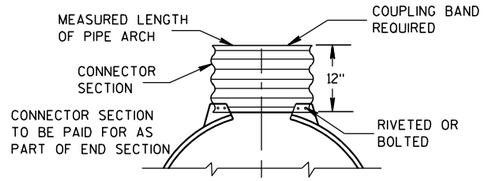
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48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

**NOMINAL SIZE



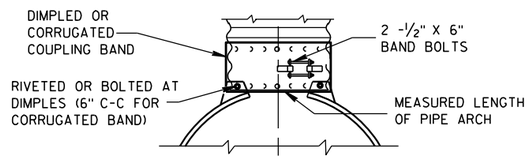
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

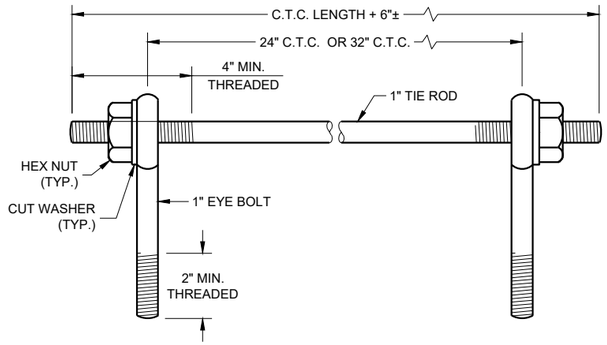
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

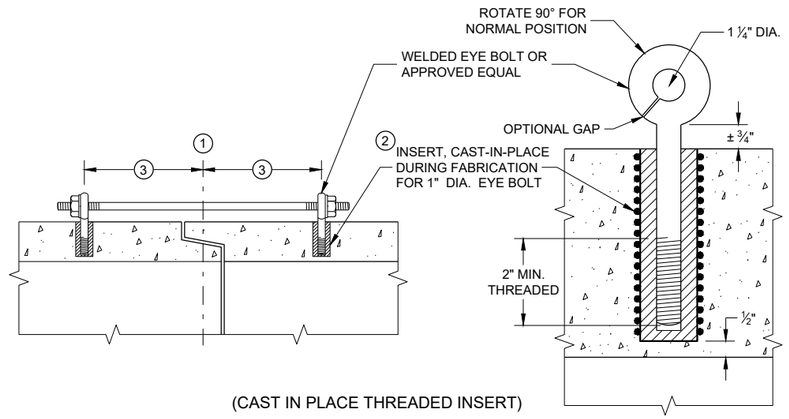
FHWA

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S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

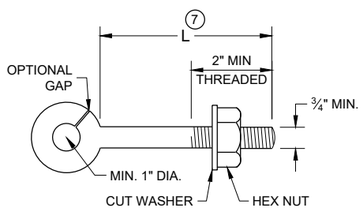
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

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

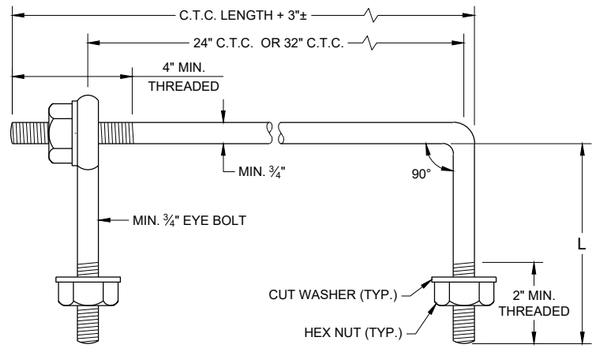
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

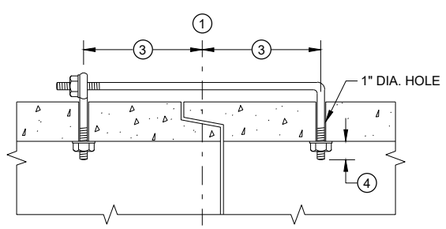


EYE BOLT (7)

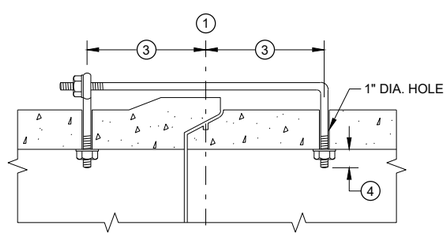
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

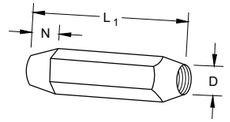
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

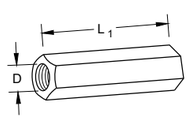
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



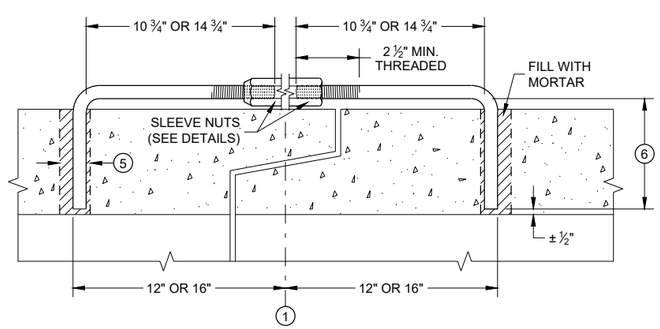
TAPERED



PLAIN

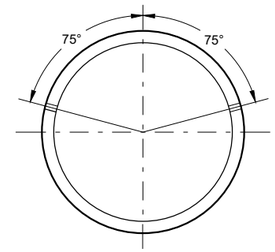
RIGHT AND LEFT THREADS

SLEEVE NUTS



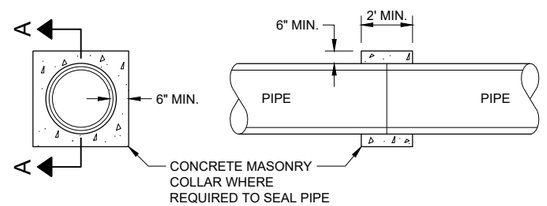
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

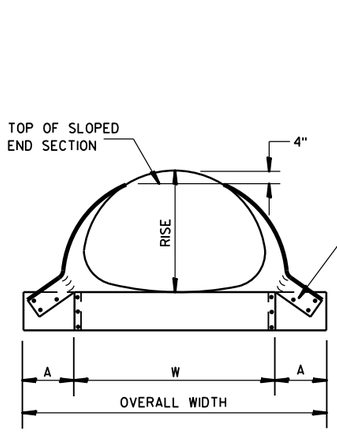
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

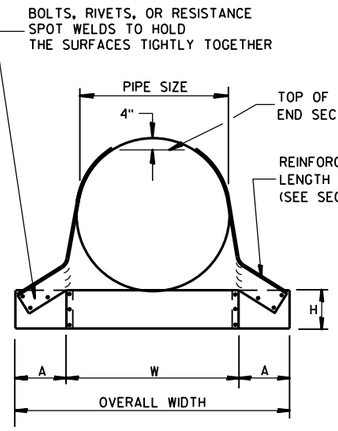
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 08F04 - 08

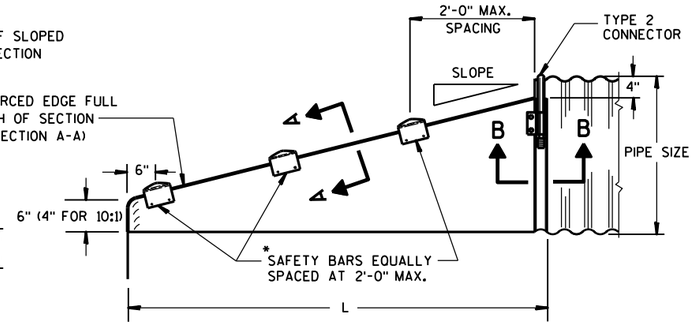
SDD 08F04 - 08



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

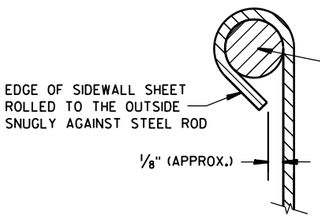
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

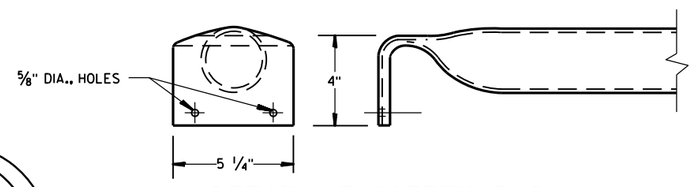
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

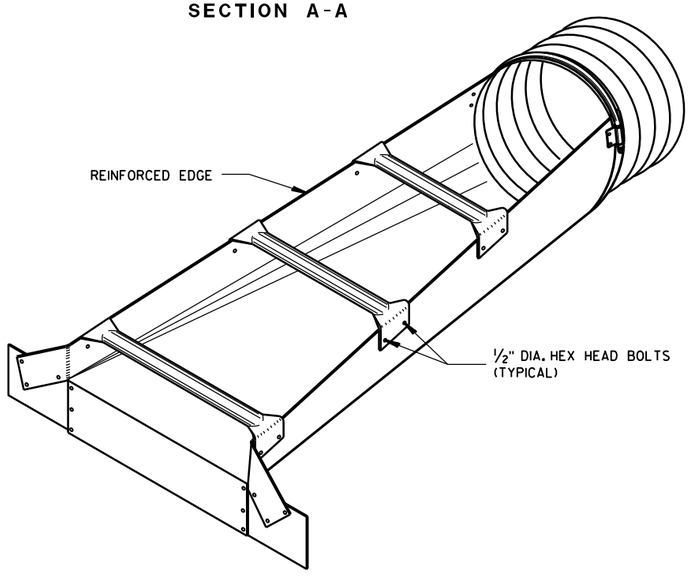


DETAIL OF SAFETY BAR

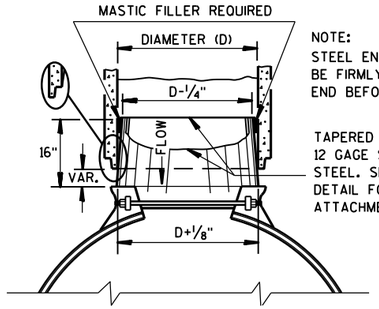
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

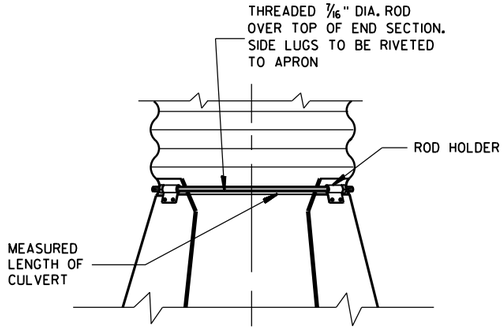
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



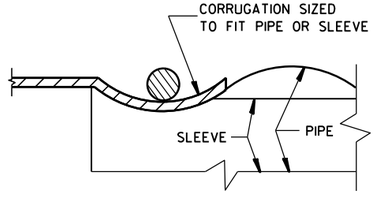
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 7-5

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.

FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2' - 0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3' - 0"

(3) LIMITS OF TRENCH BACKFILL

(4) LIMITS OF FOUNDATION BACKFILL

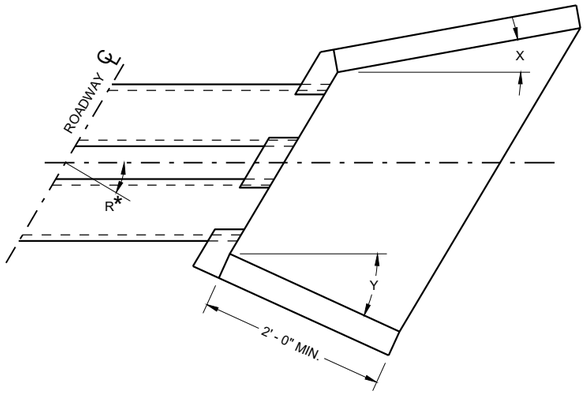
(5) FOUNDATION AND TRENCH BACKFILL ARE MATERIALS INCLUDED IN PAYMENT FOR CULVERT PIPE, PIPE ARCH, CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPSE OR CONCRETE MASONRY ENDWALLS.

(6) DO NOT PLACE FOUNDATION BACK FILL OR ANY OTHER GRANULAR BACKFILL AROUND OR BELOW CUT OFF WALL. POUR CUT OFF WALL AGAINST NATIVE SOIL

(7) MINIMUM HEIGHT SHALL BE THE GREATER OF 1'- 0" OR ¼ HEIGHT OF CULVERT PIPE.

TRENCH BACKFILL

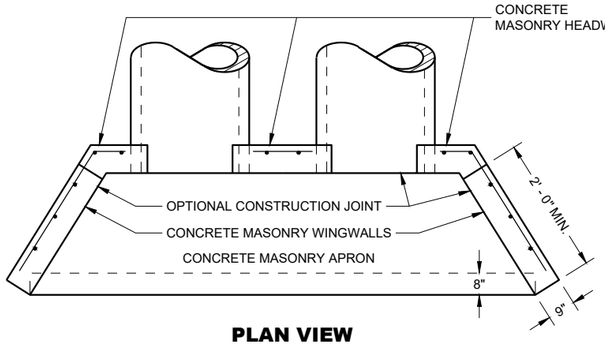
FOUNDATION BACKFILL



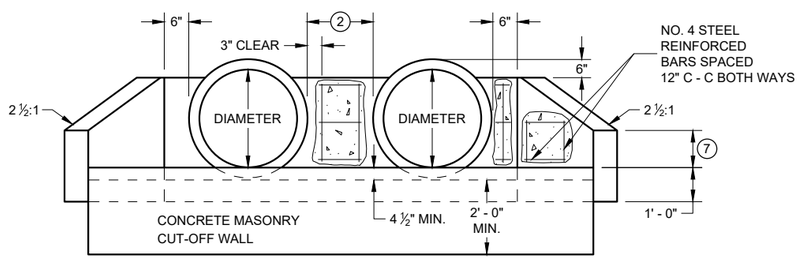
WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	30°	16 - 45°	10°	15°
23 - 37°	20°	30°	46 - 75°	5°	15°
38 - 52°	15°	30°	OVER 75°	0°	15°
53 - 67°	10°	30°			
68 - 82°	5°	30°			
OVER 82°	0°	30°			

R* = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

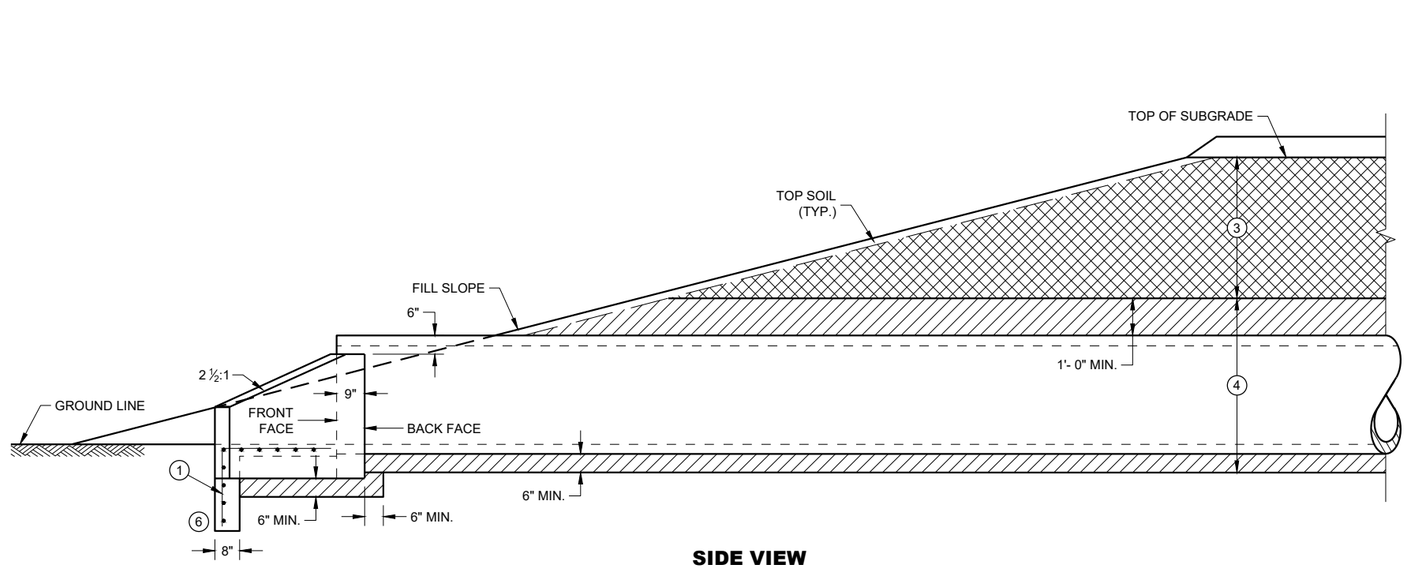


PLAN VIEW



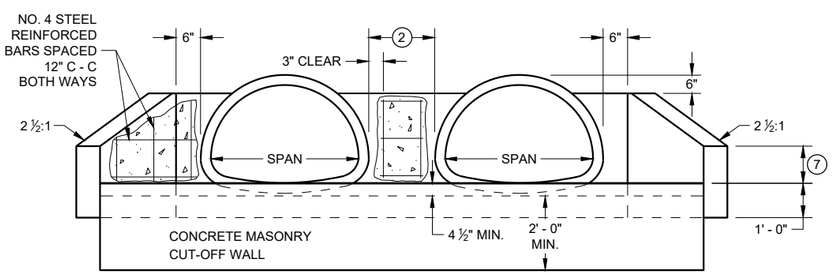
END VIEW

CIRCULAR PIPE



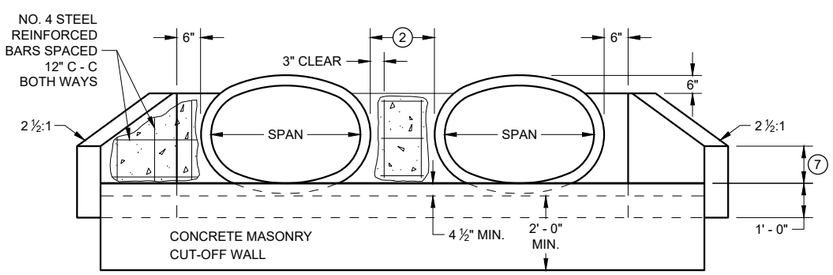
SIDE VIEW

CIRCULAR PIPE, PIPE ARCH OR HORIZONTAL ELLIPSE



END VIEW

PIPE ARCH



END VIEW

HORIZONTAL ELLIPSE

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

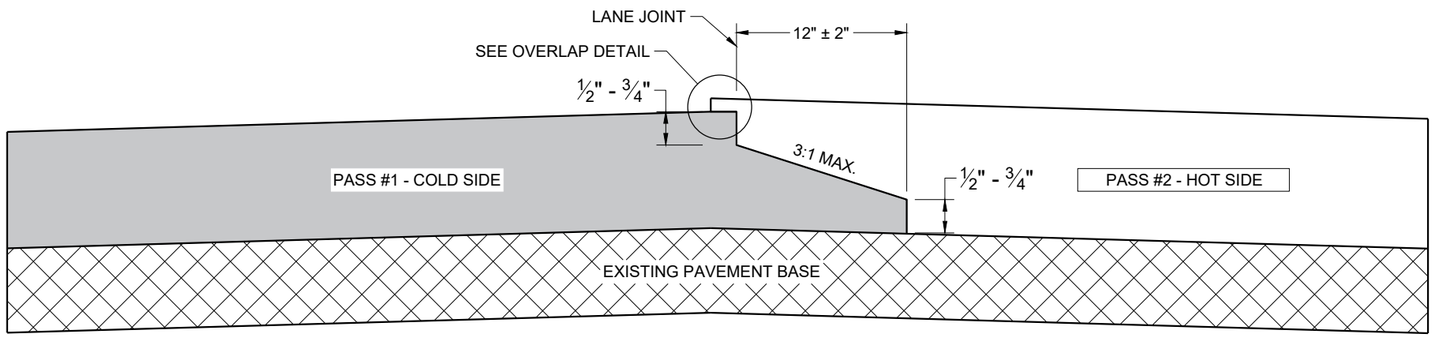
May 2022
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

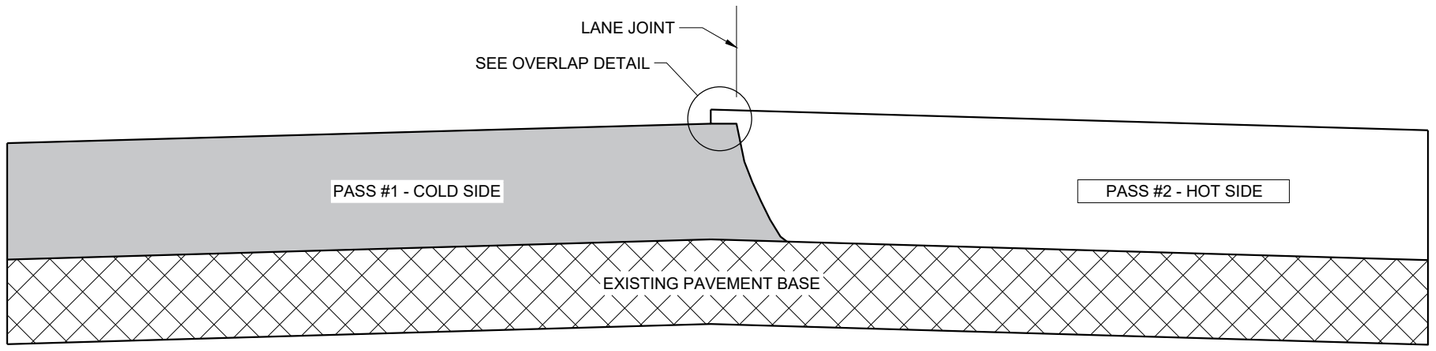
FHWA

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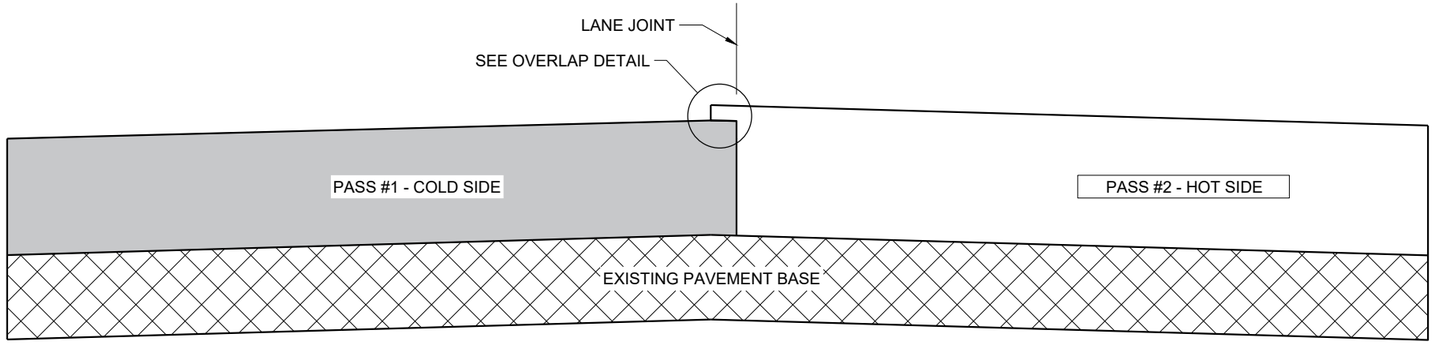
SDD 08F10 - 02



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

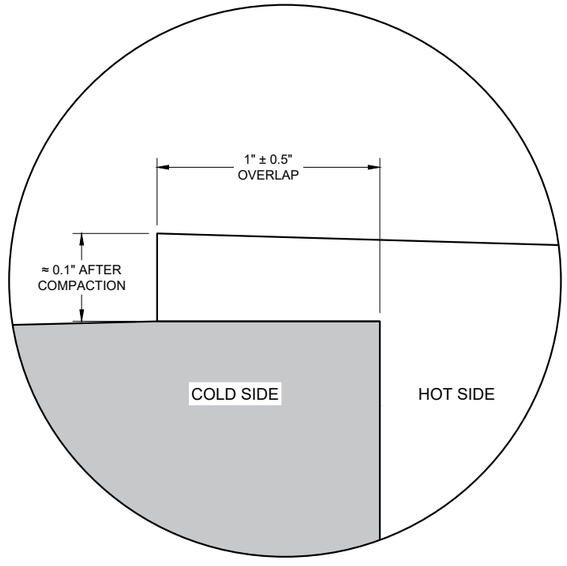
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

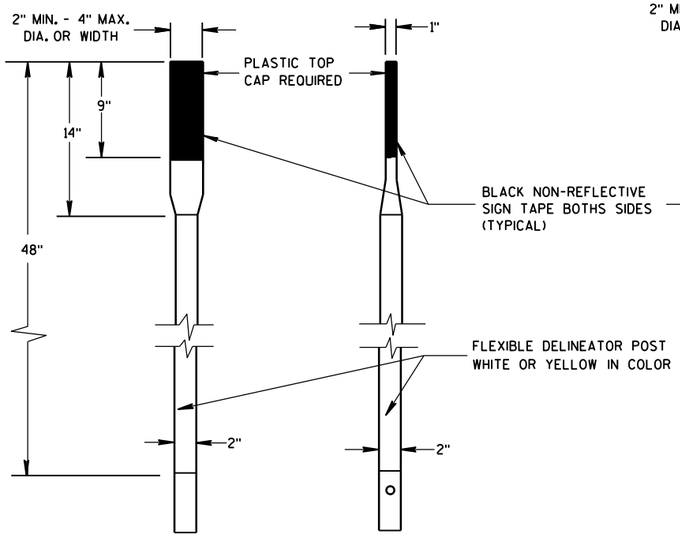
HMA LONGITUDINAL JOINTS

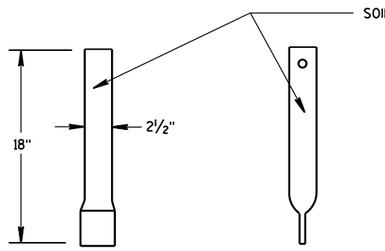
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

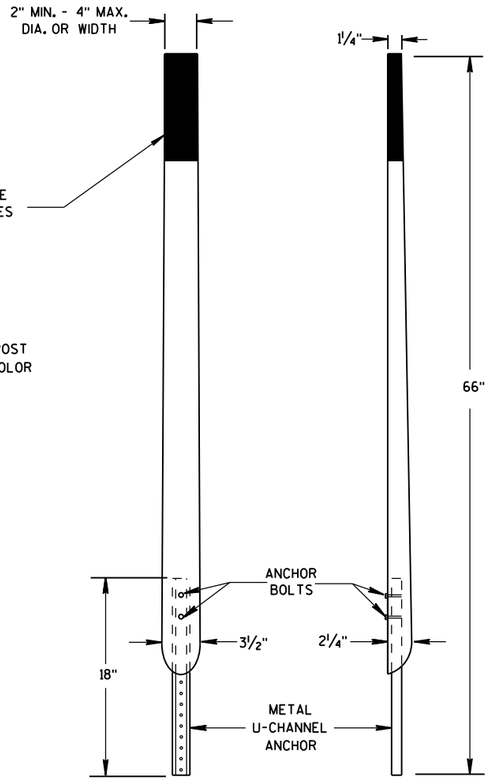
FHWA





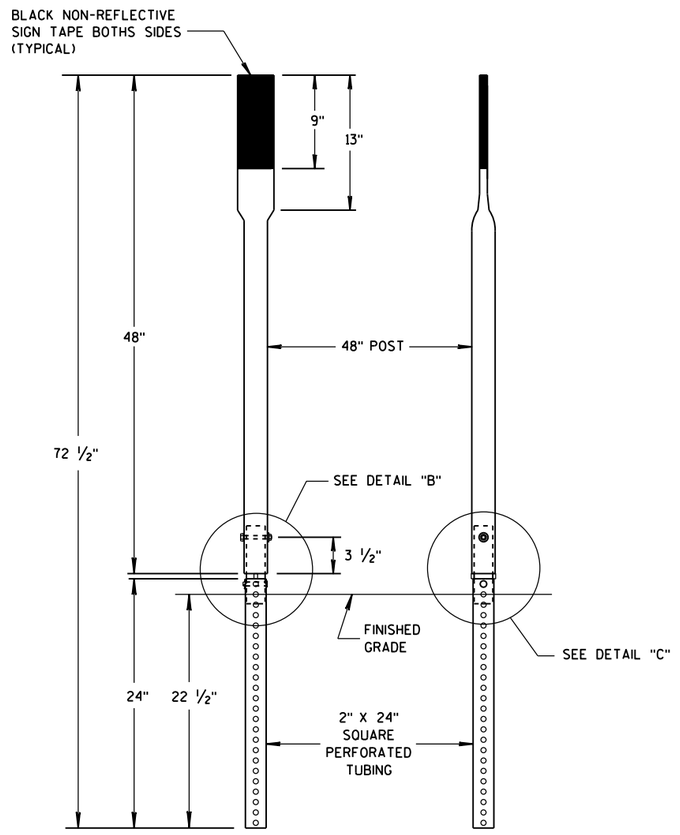
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

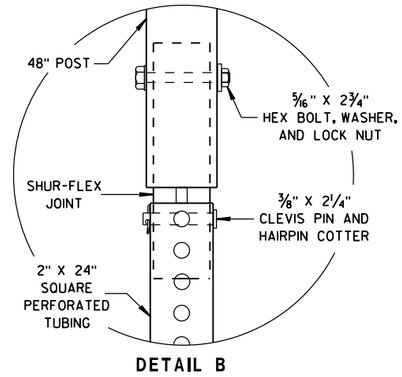
ALTERNATE 2



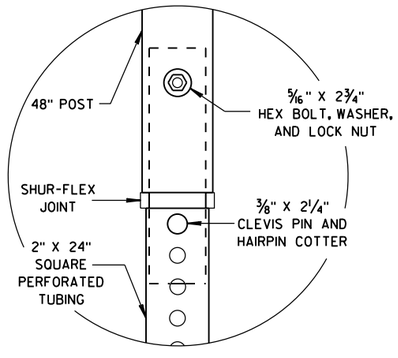
FRONT VIEW SIDE VIEW

ALTERNATE 3

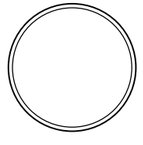
FLEXIBLE MARKER POSTS



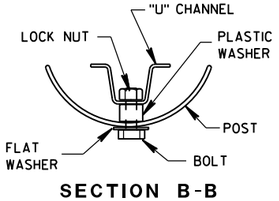
DETAIL B



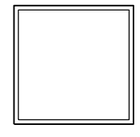
DETAIL C



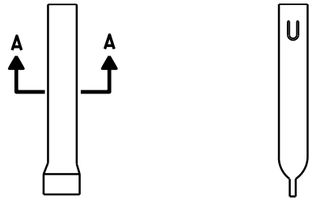
SECTION A-A



SECTION B-B

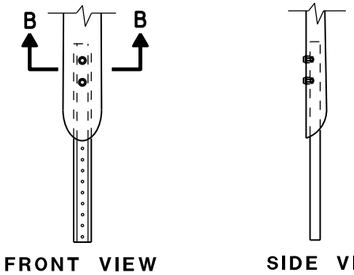


SECTION C-C



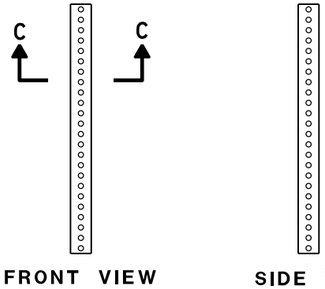
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

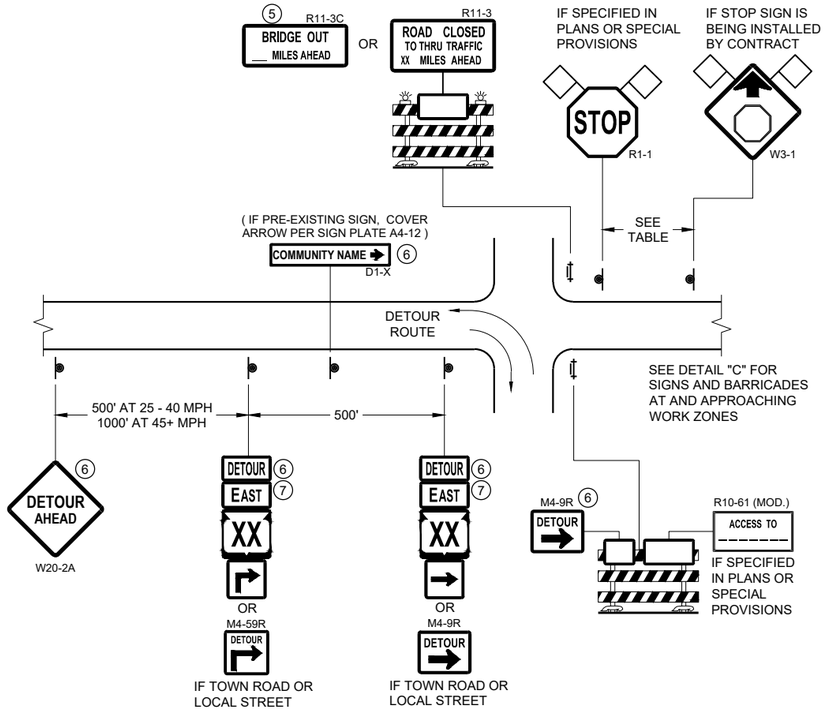
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

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

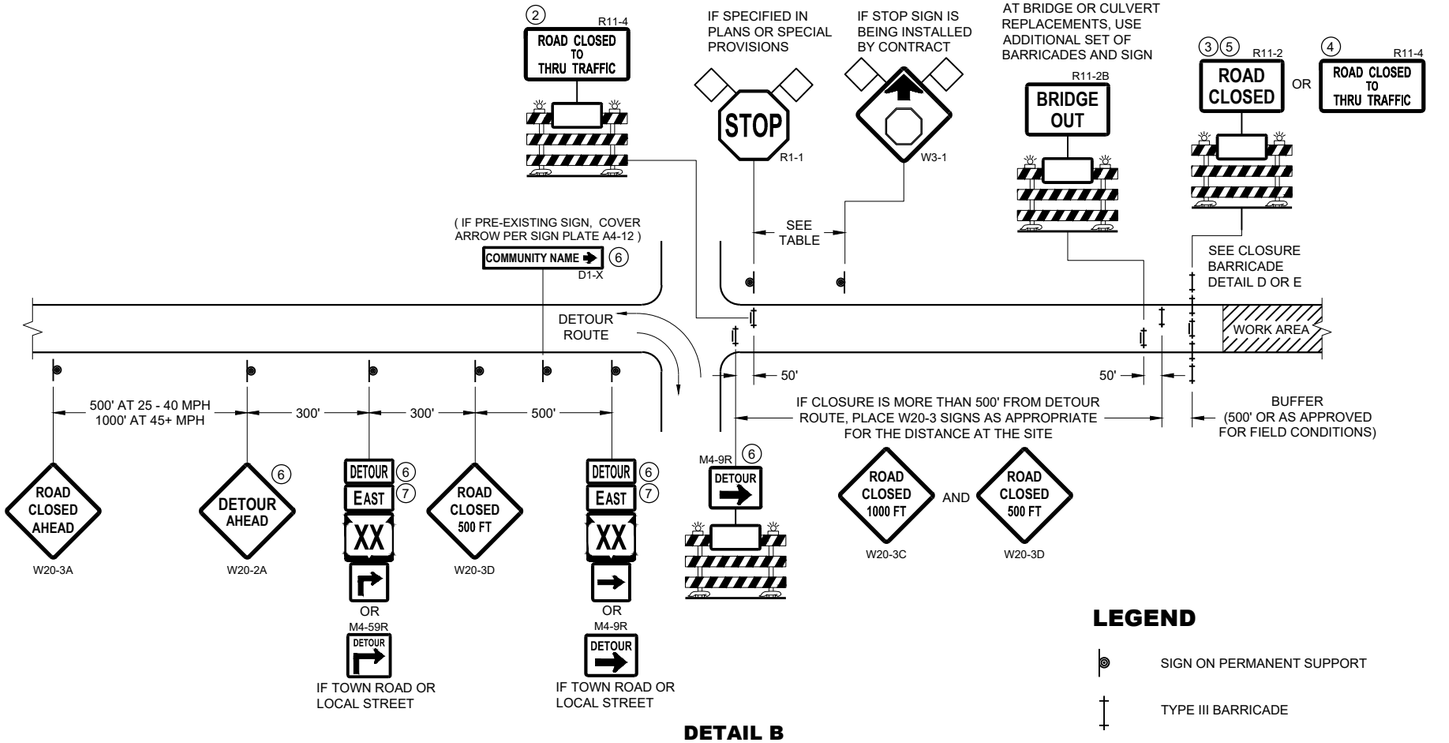
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S.D.D. 15 A 3-2b



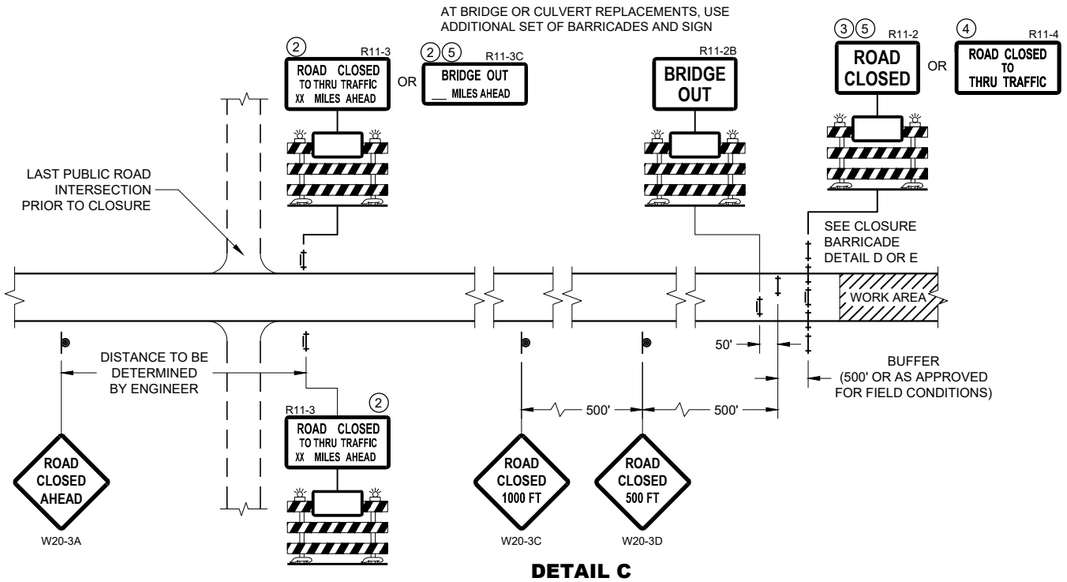
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

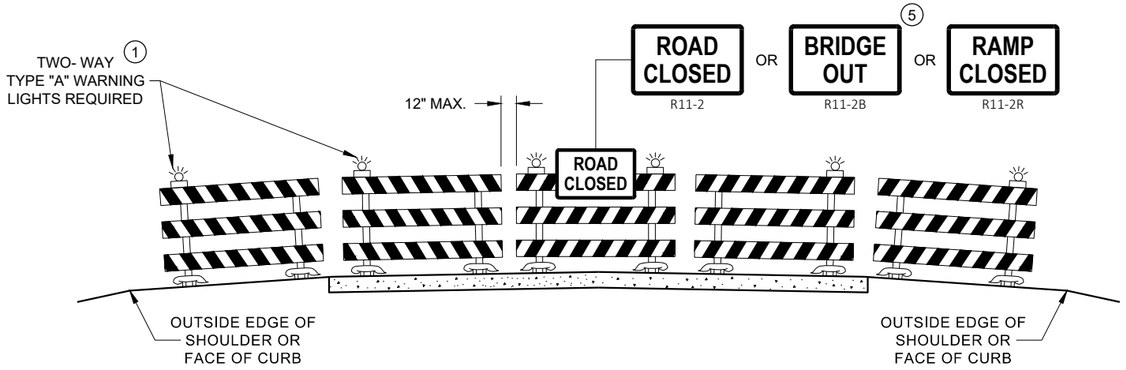
FHWA

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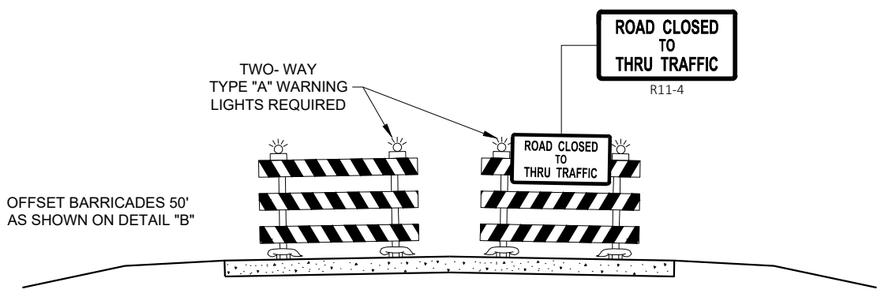
SDD 15C02 - 09a

6

SDD 15C02 - 09a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

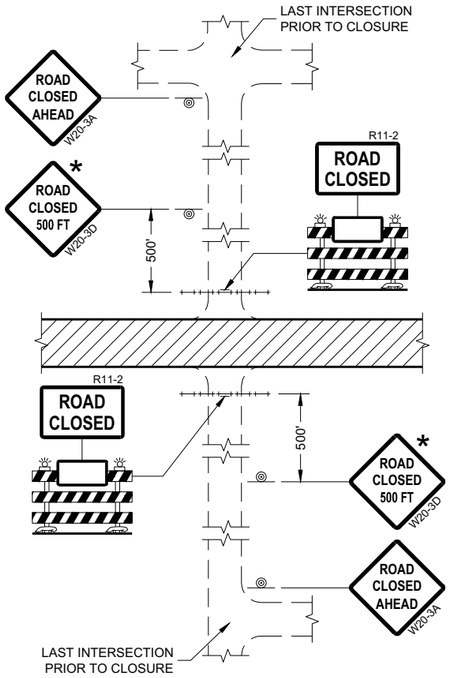
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

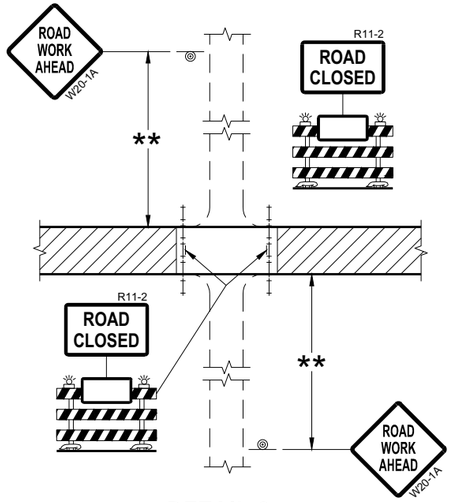
SDD 15C02 - 09b

6

SDD 15C02 - 09b



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

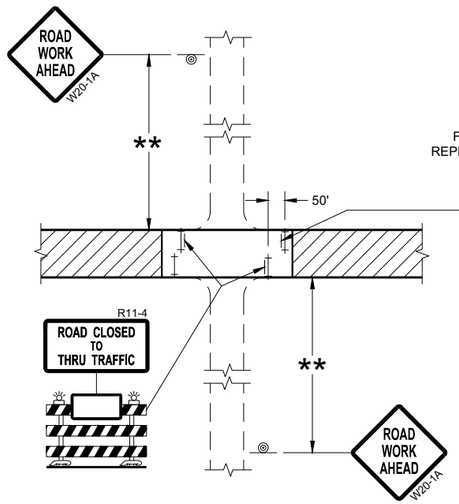
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

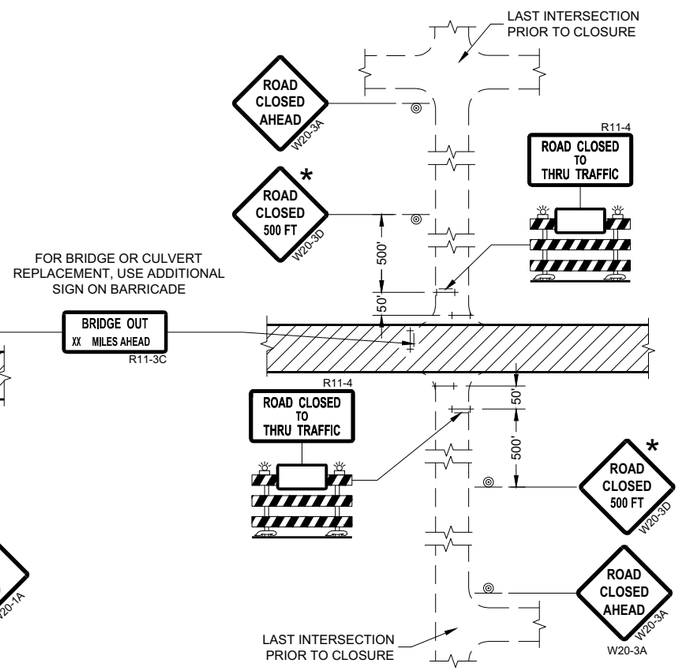
THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.





DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C03 - 05

SDD 15C03 - 05

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

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

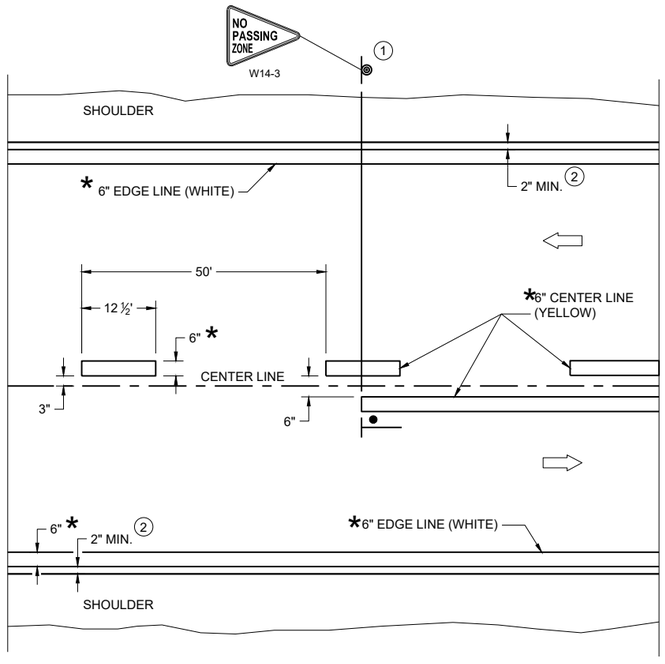
LEGEND

"T" MARKING

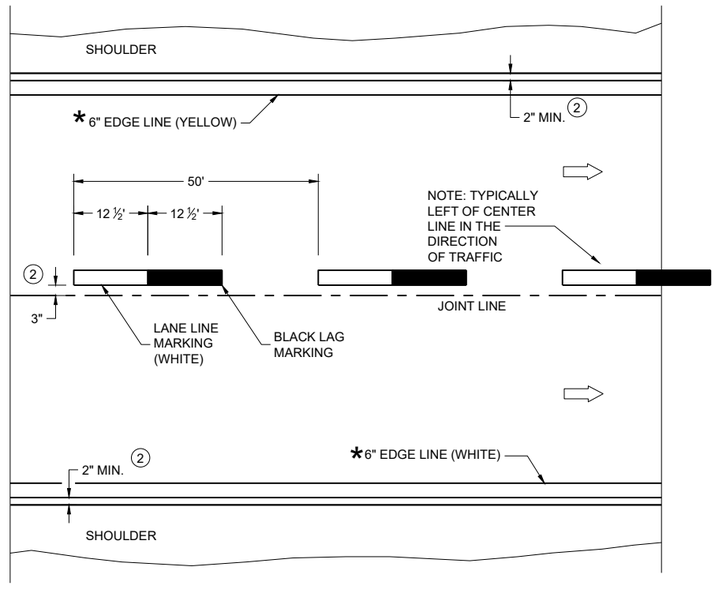
SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

SDD 15C08-23a

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

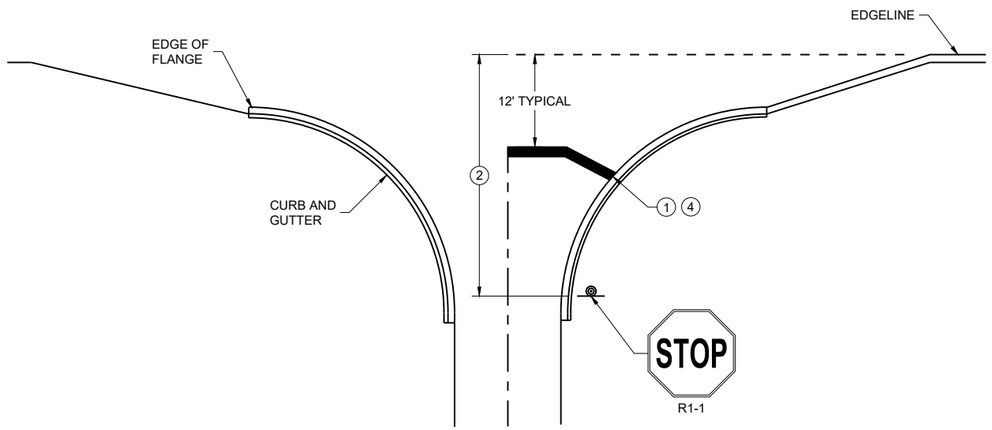
6

SDD 15C08-23a

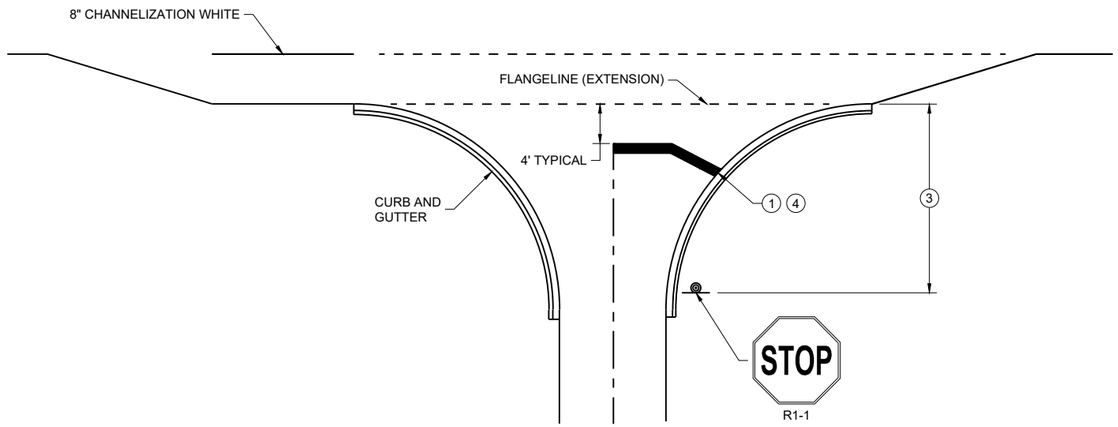
GENERAL NOTES

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

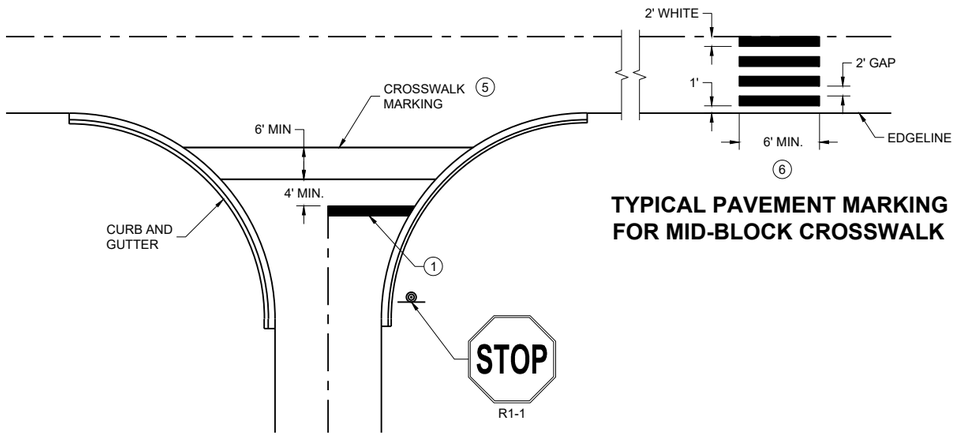
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE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

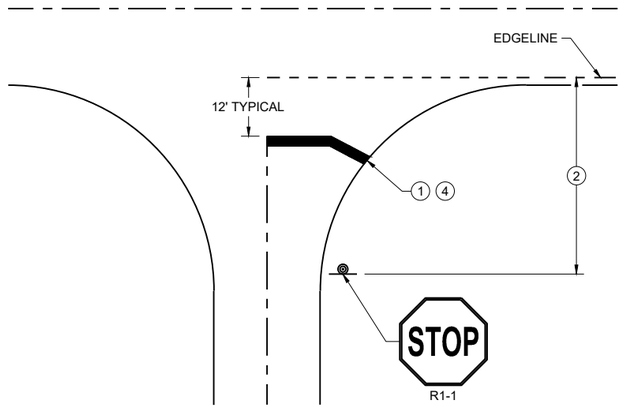


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



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

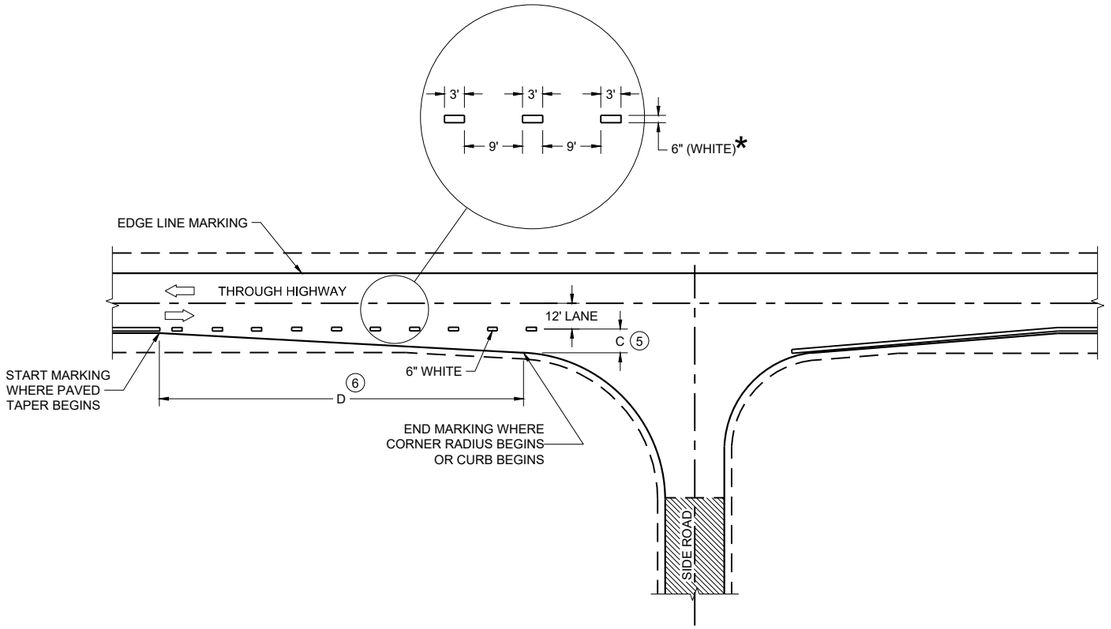
FHWA

6

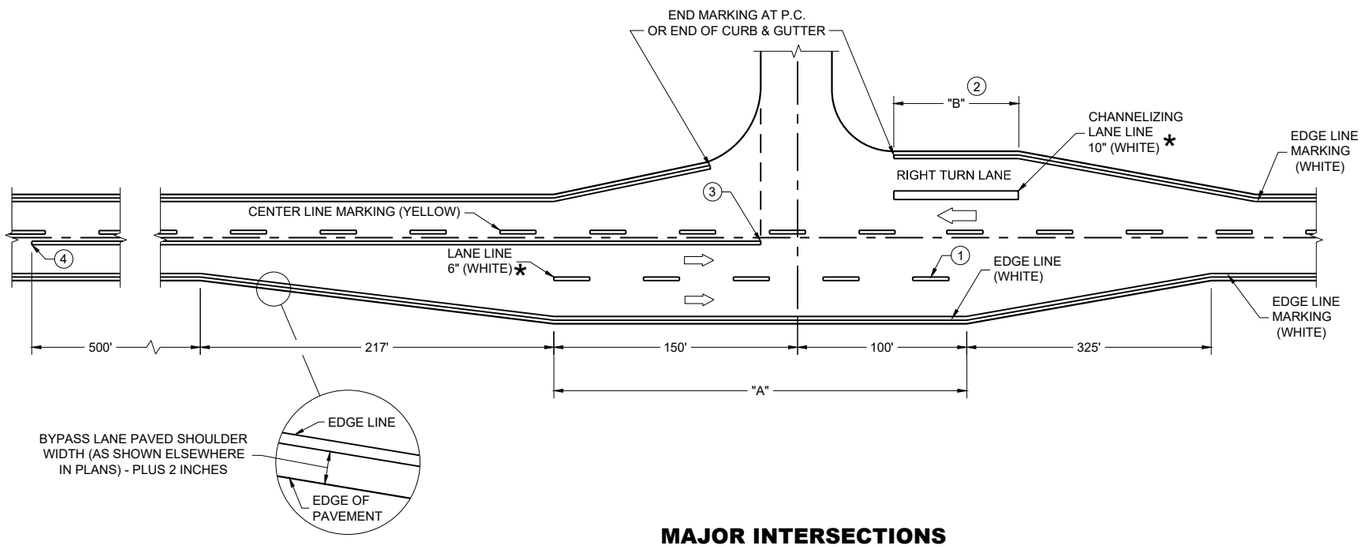
SDD 15C33-05

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

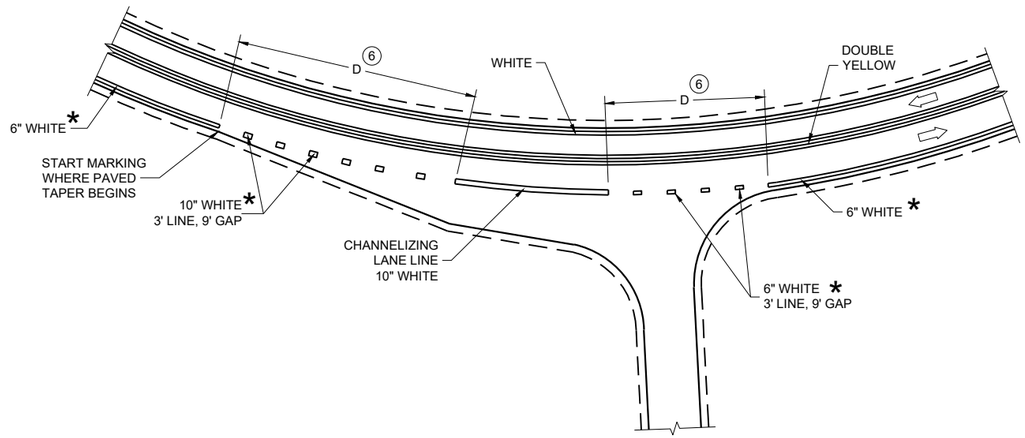
GENERAL NOTES

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

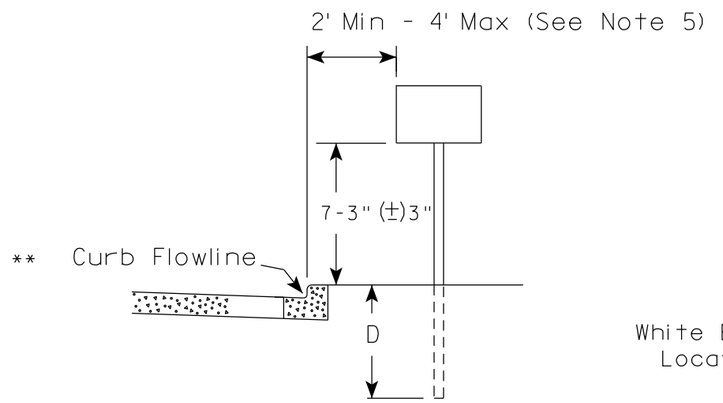


INTERSECTION ON OUTSIDE OF CURVE

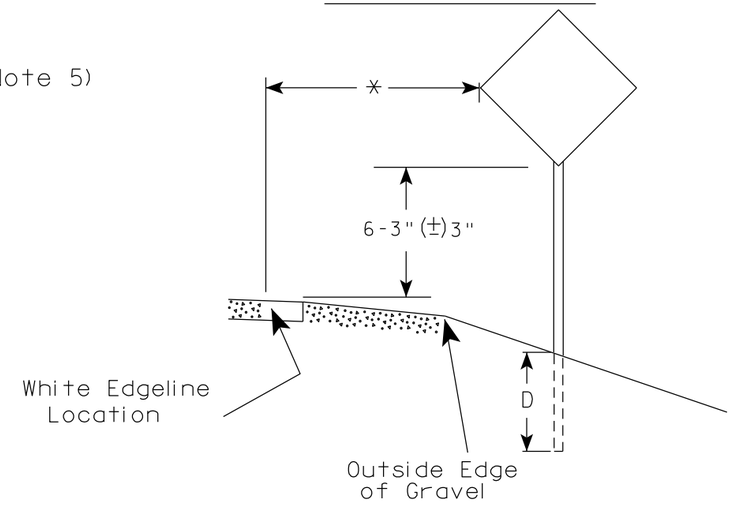
PAVEMENT MARKING (INTERSECTIONS)

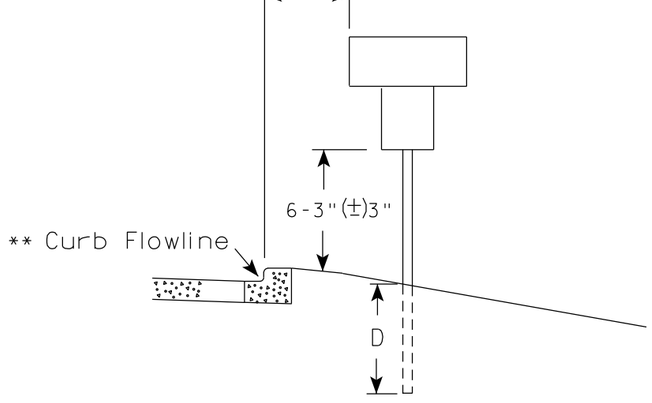
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

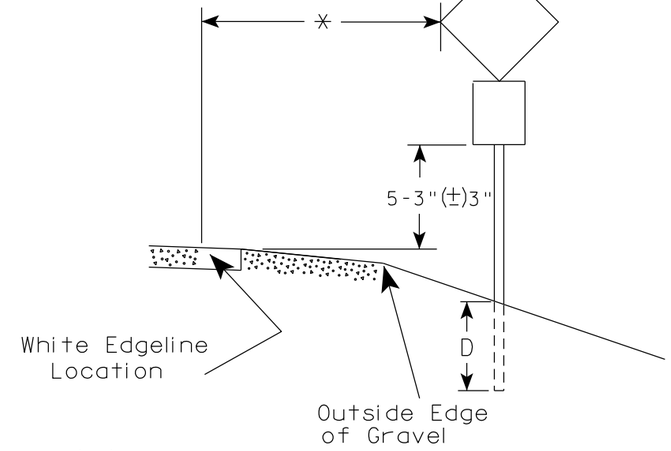
URBAN AREA



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.

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.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

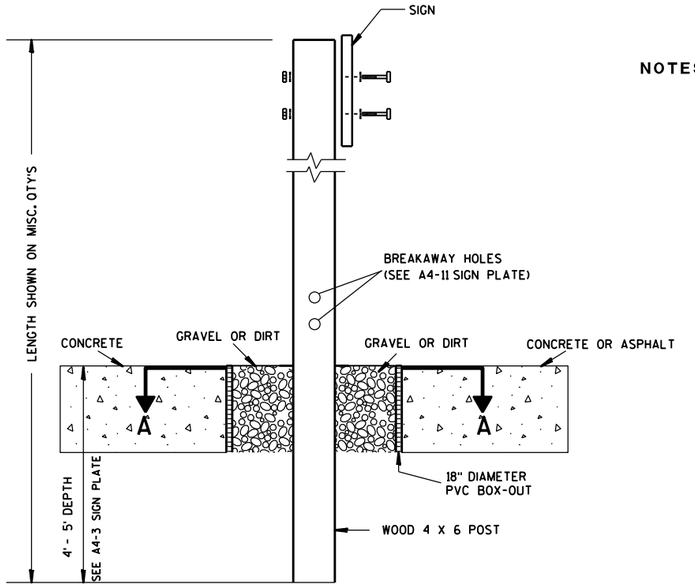
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

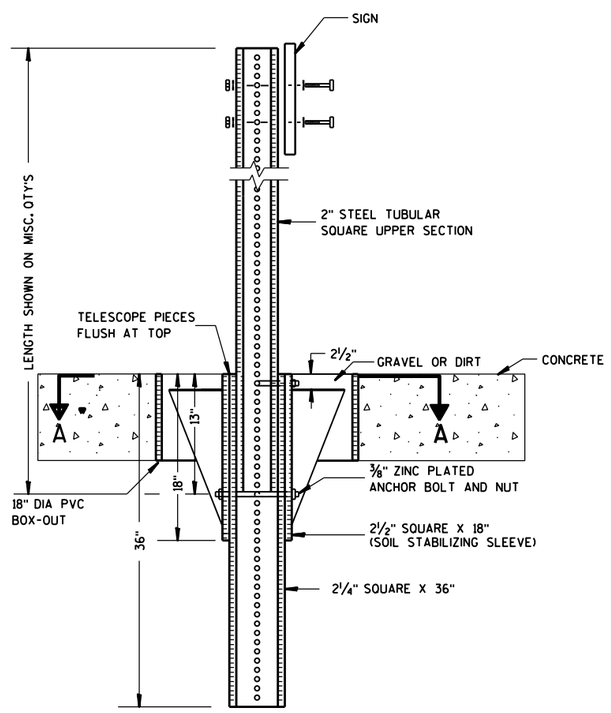
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 110	E



ELEVATION VIEW

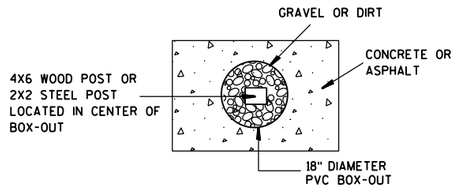
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

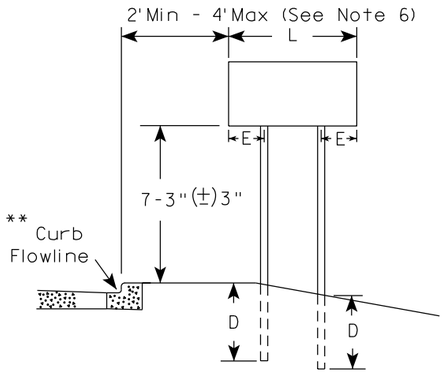
APPROVED Matthew R Rauch
for State Traffic Engineer

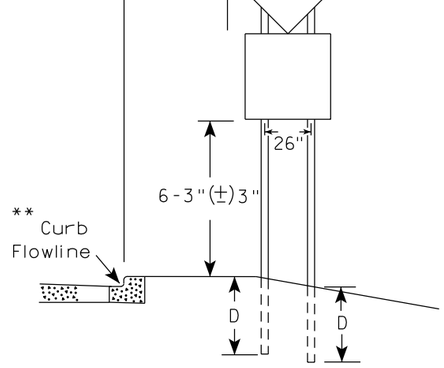
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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

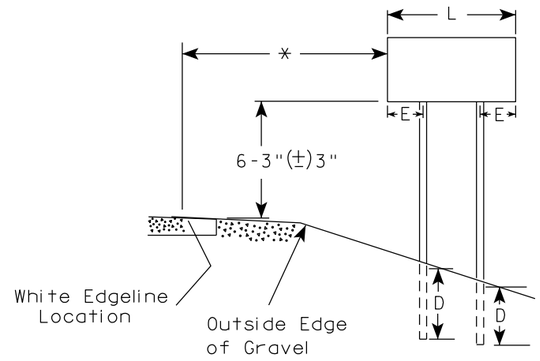
URBAN AREA

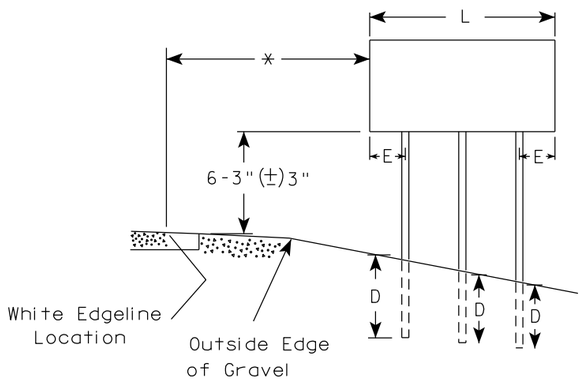


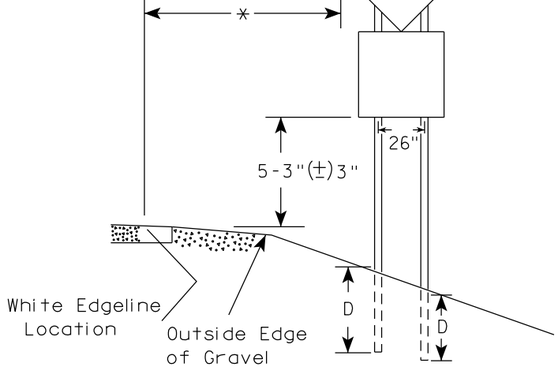


48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN

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.

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"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

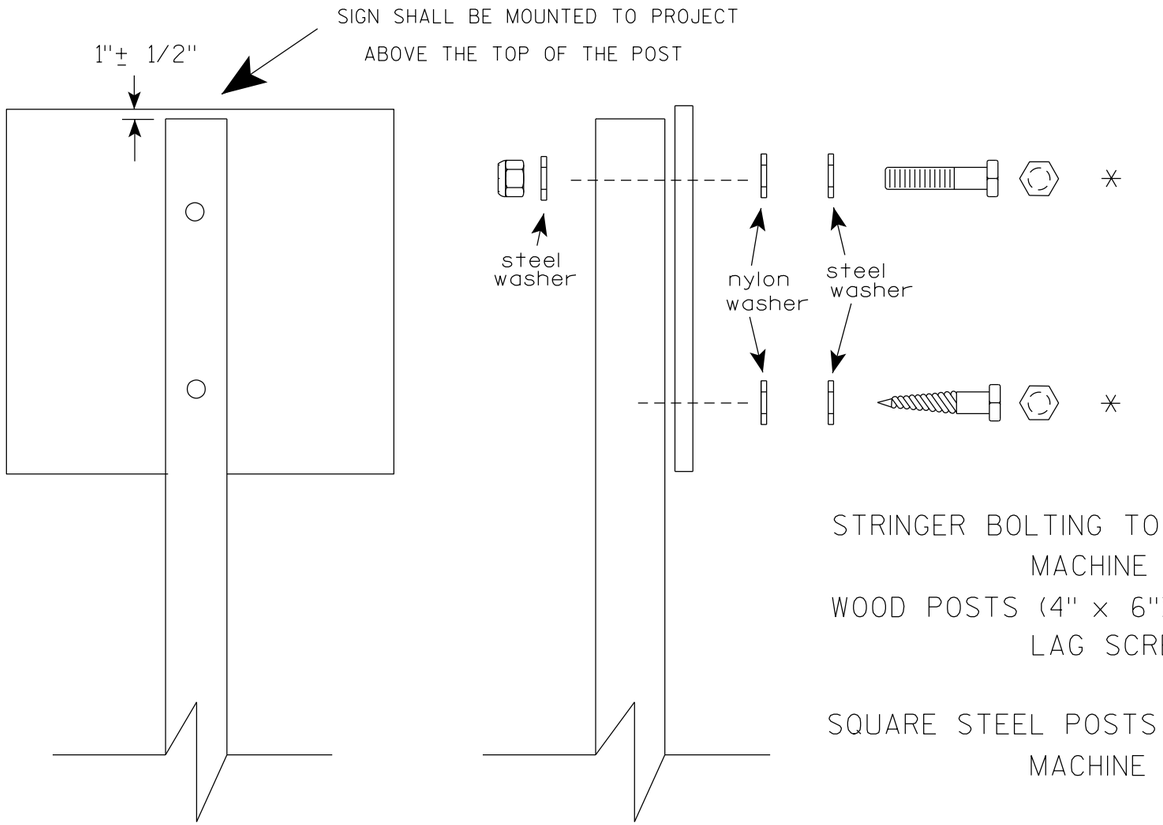
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 112	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

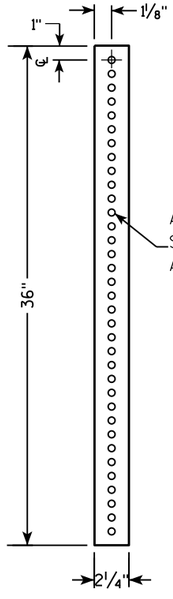
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

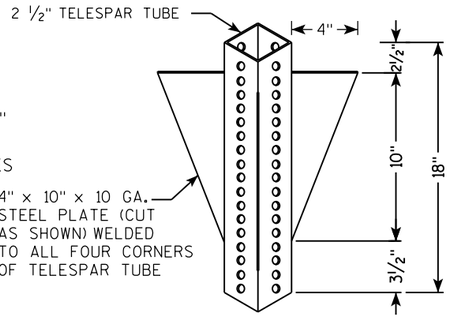
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

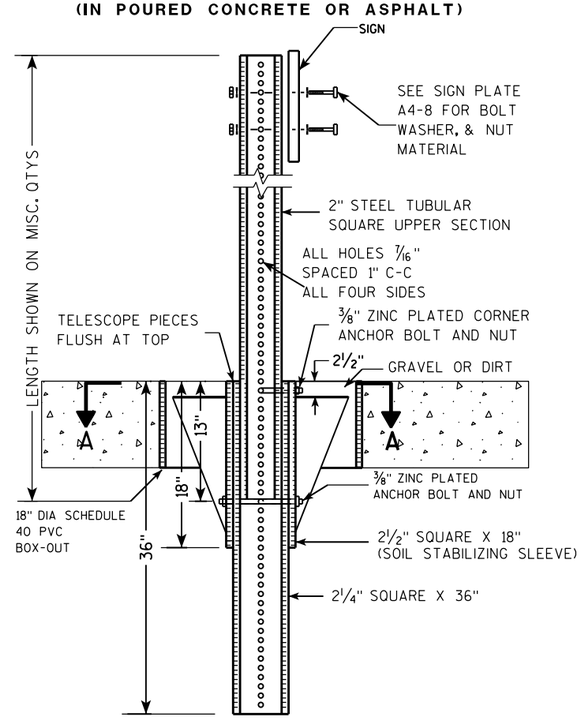
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



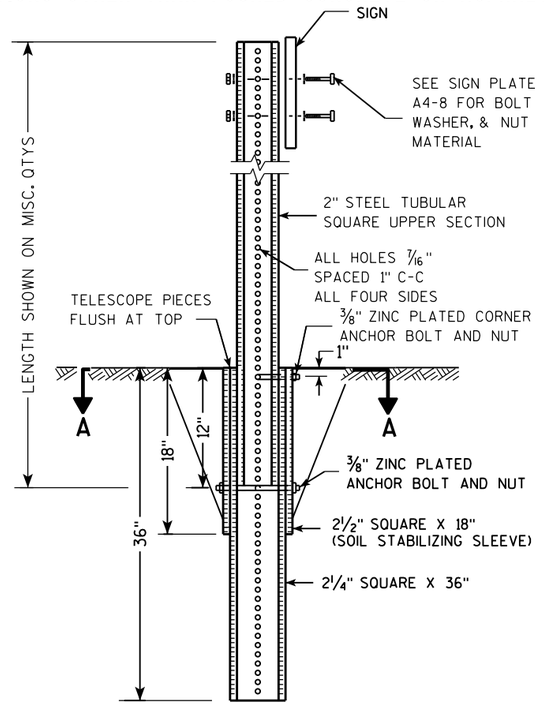
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

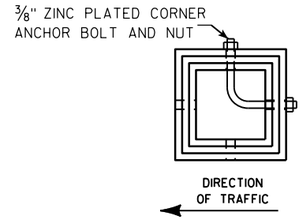


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

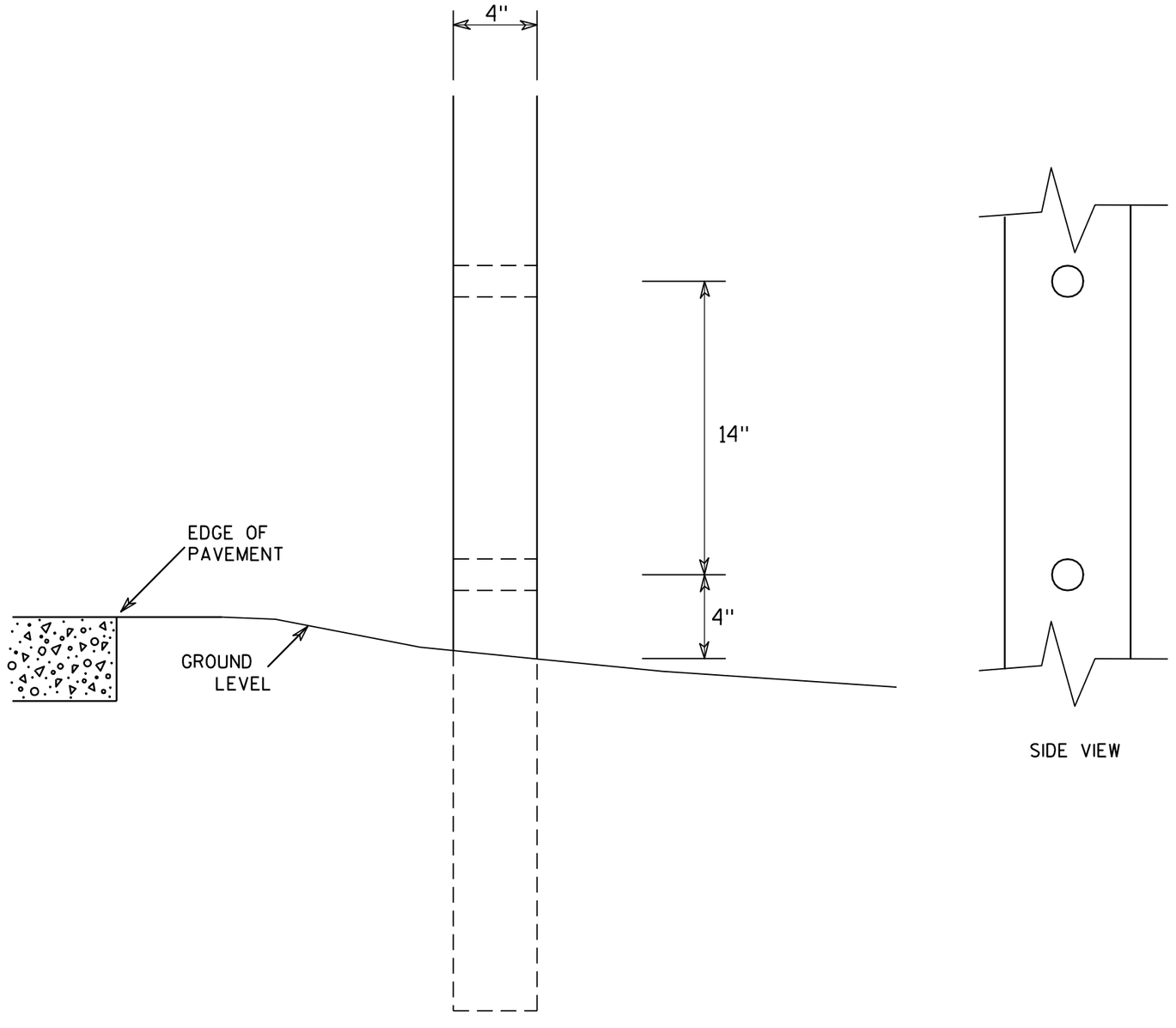
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 114 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

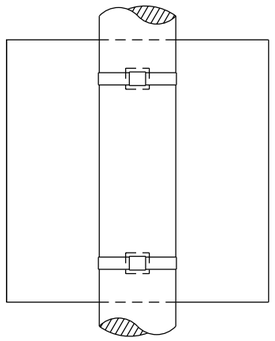
APPROVED Chester J Spang for State Traffic Engineer

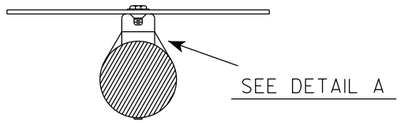
DATE 3/27/97 PLATE NO. A4-11.2

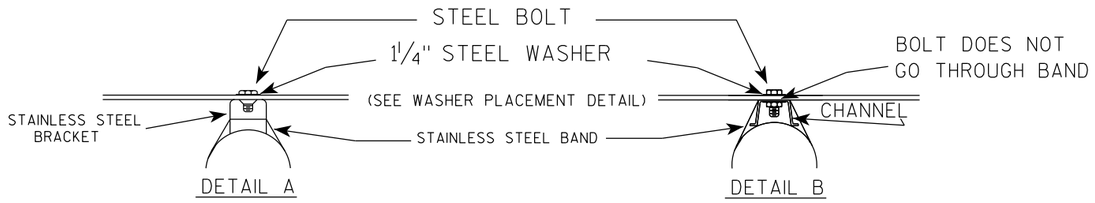
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 115	E

BANDING

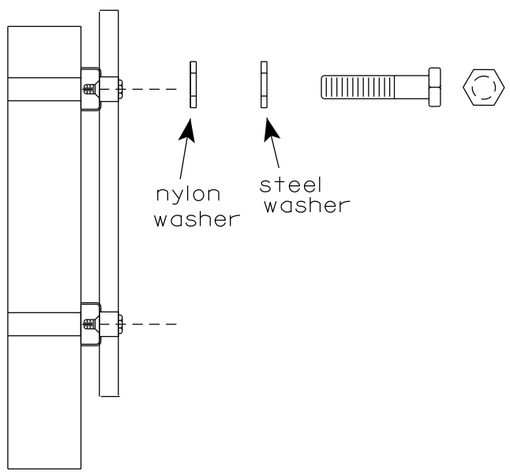
SINGLE SIGN







WASHER PLACEMENT

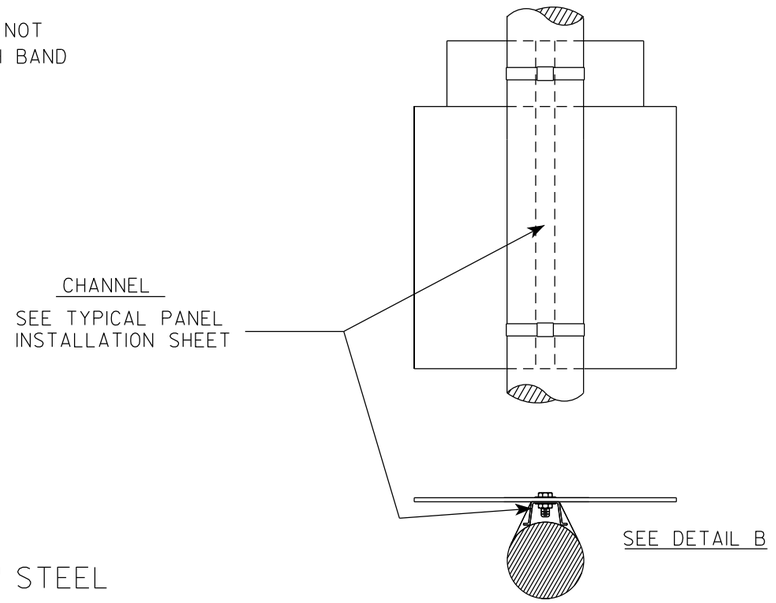


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

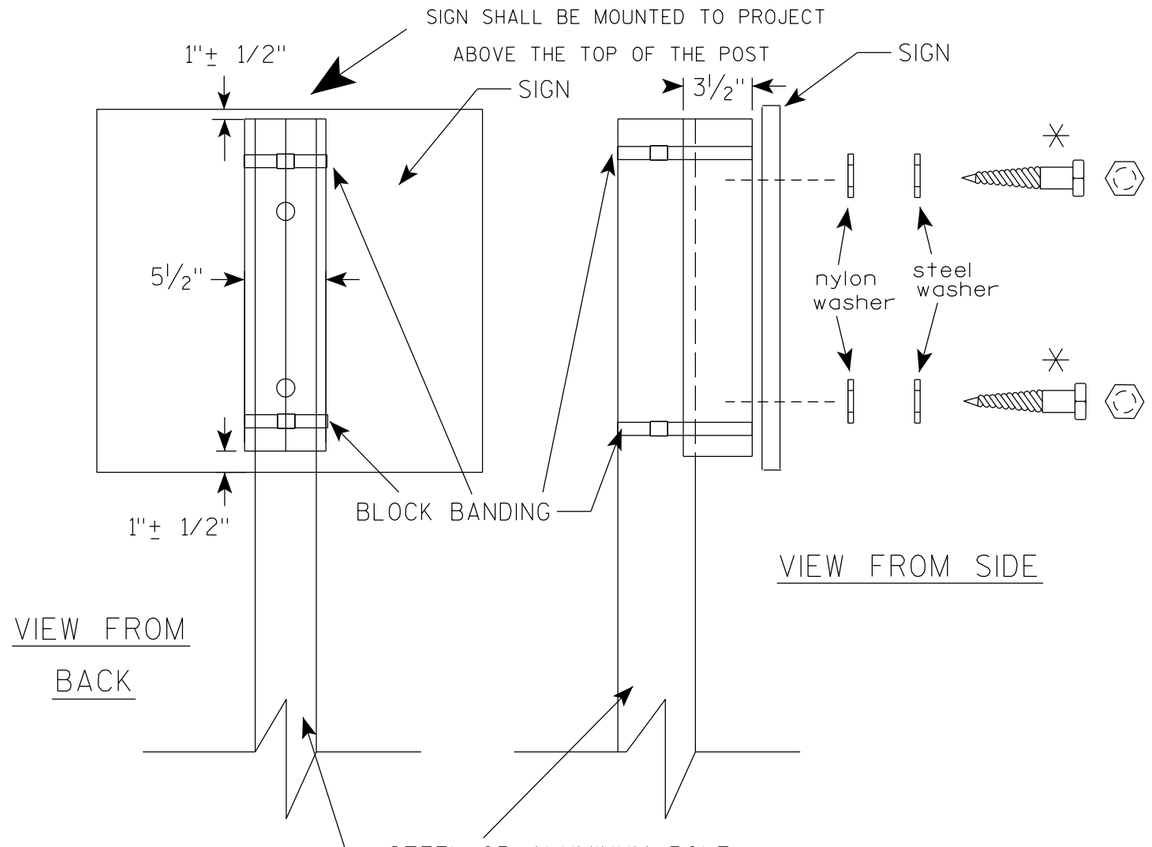
DATE 6/10/19 PLATE NO. A5-9.4

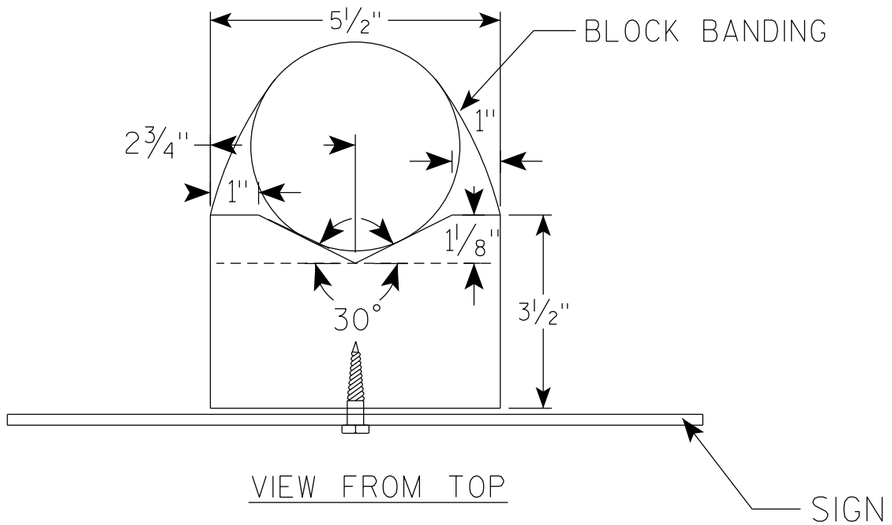
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 116	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

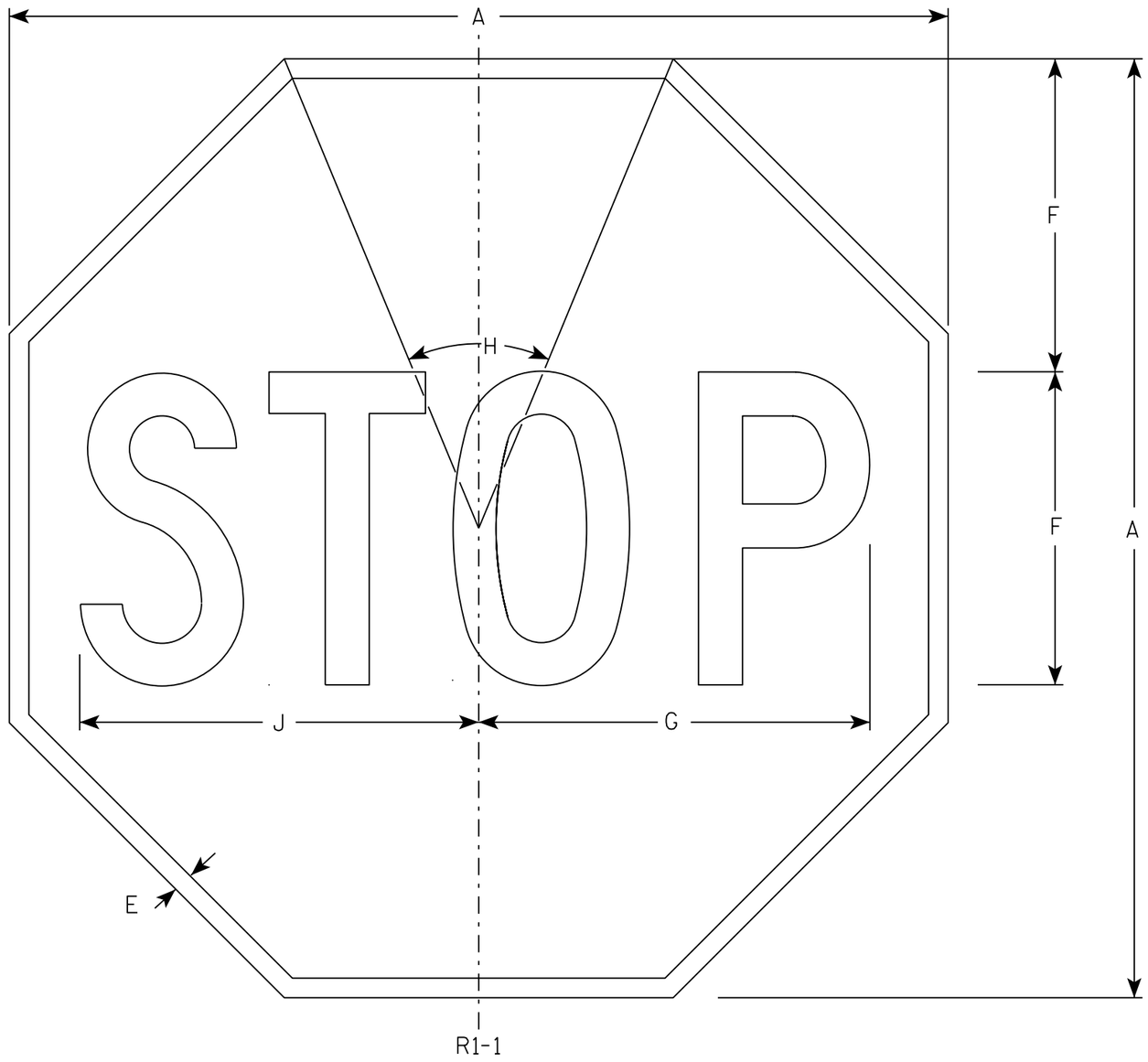
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 117 E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN

R1-1

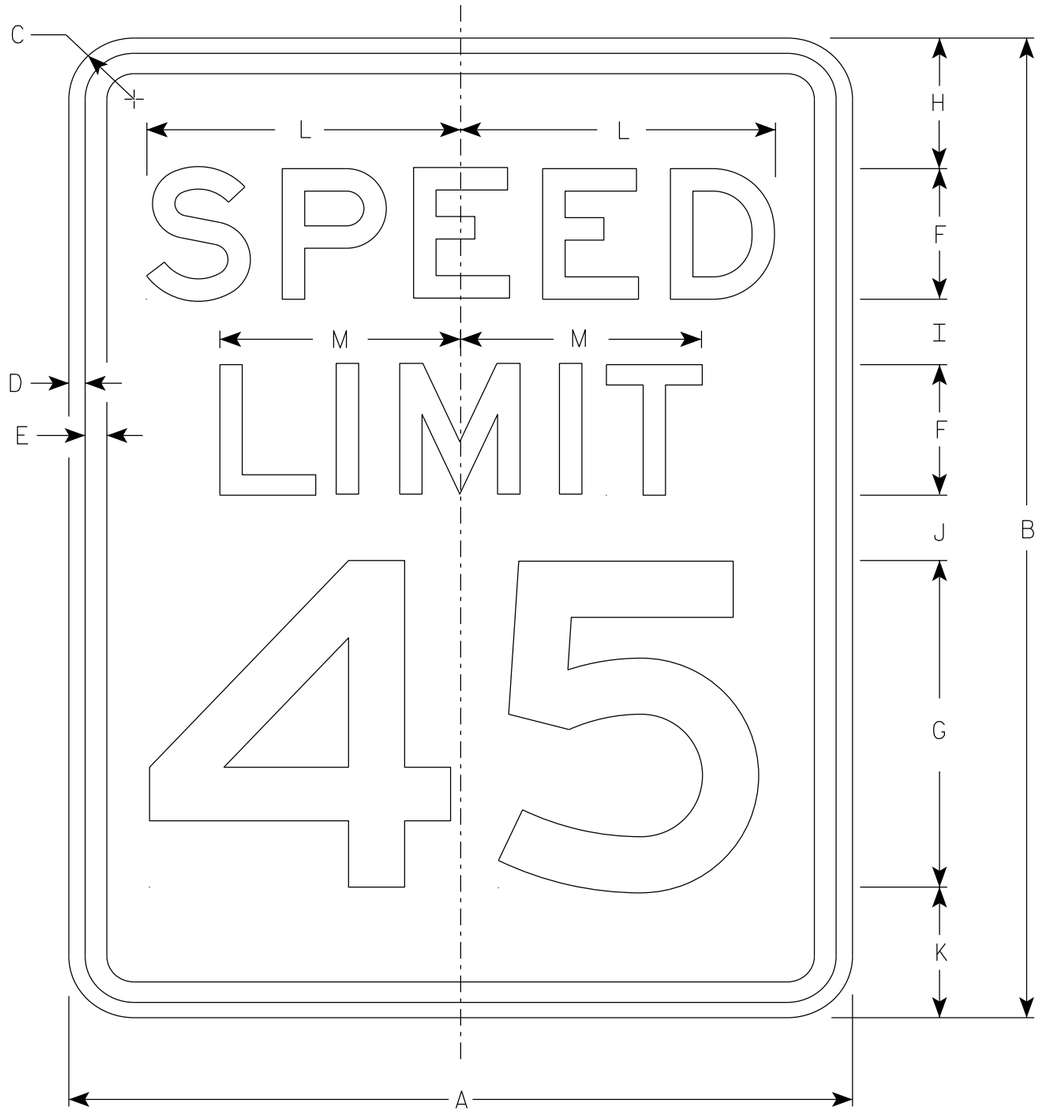
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 118	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

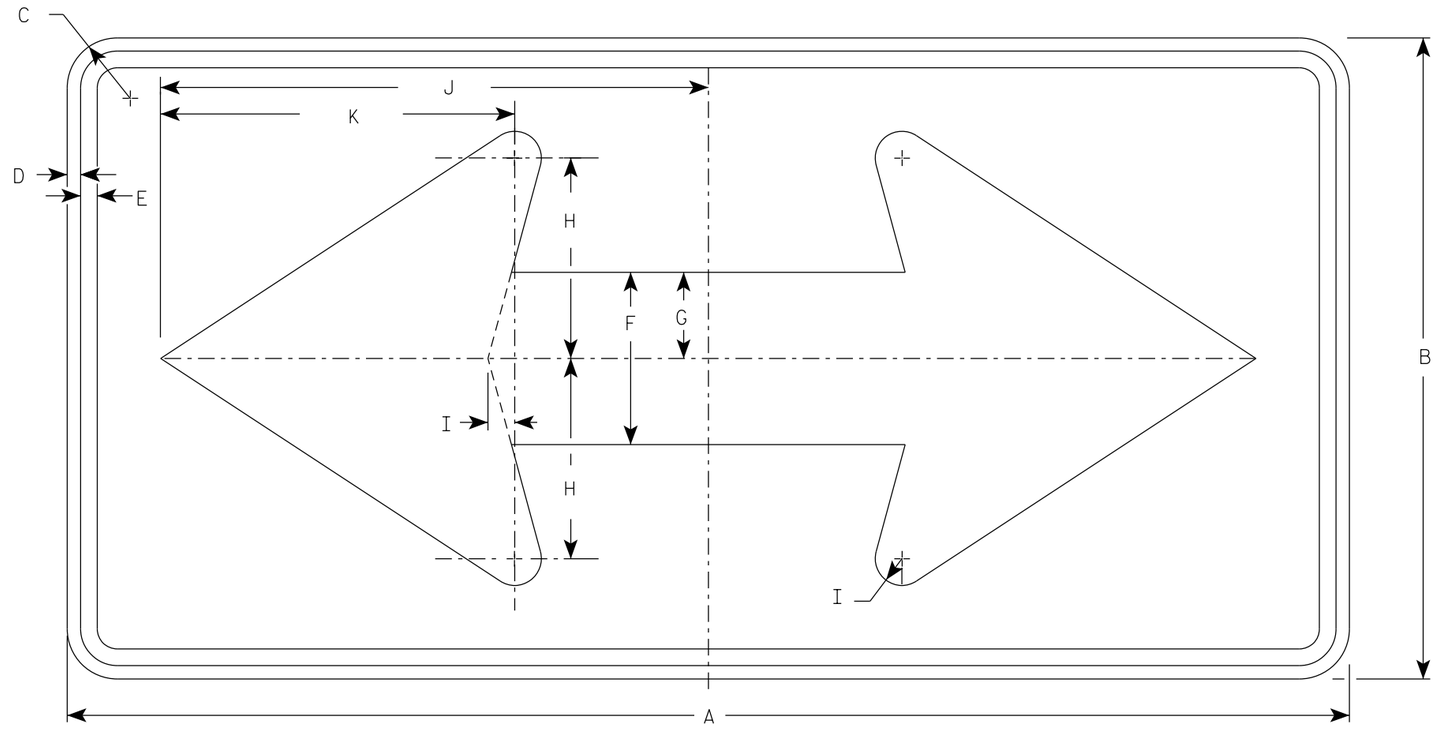
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 119 | E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



W1-7

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	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 7/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 7/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	3	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

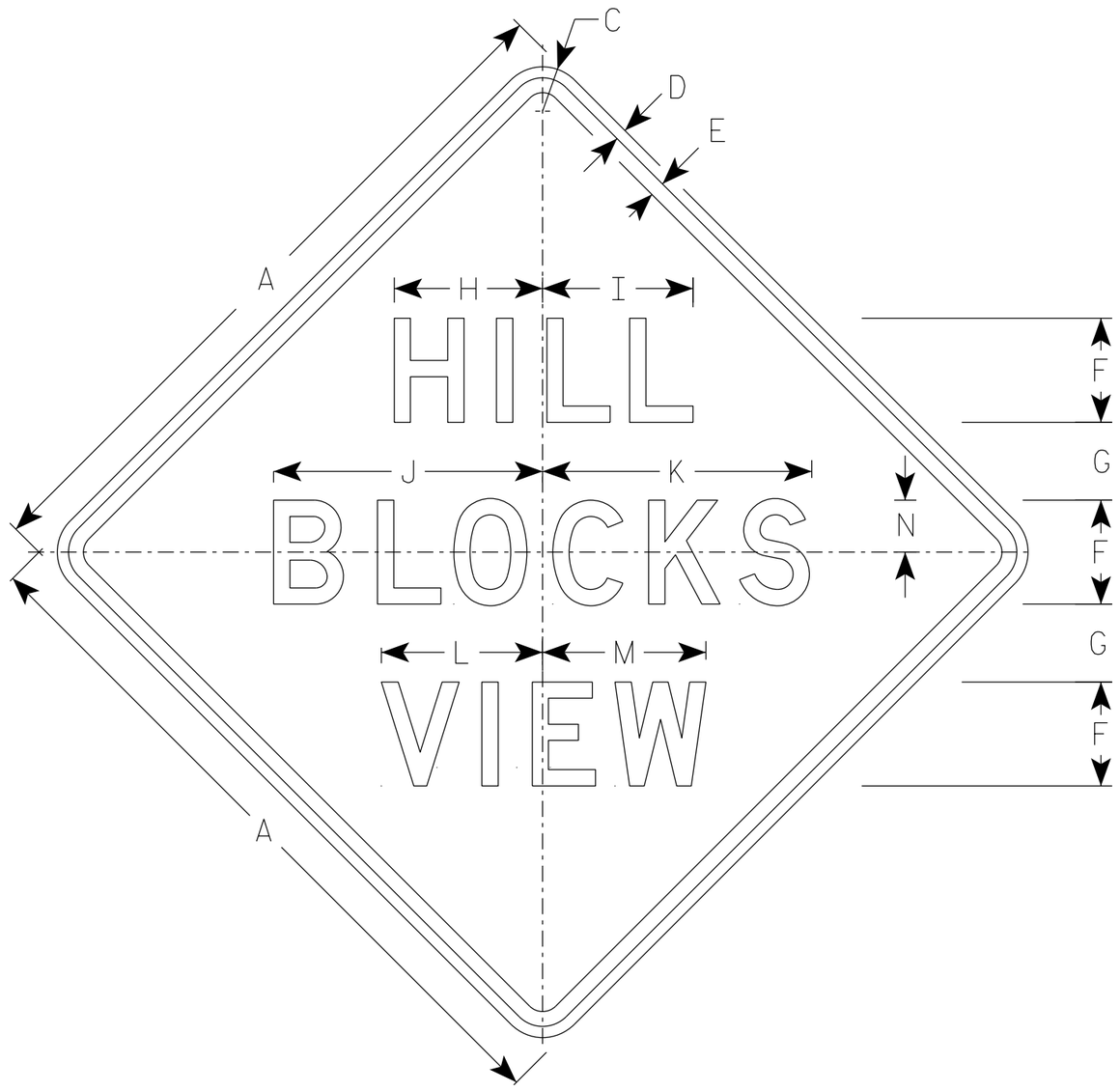
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/10/2023 PLATE NO. W1-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 120	E



W7-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - YELLOW
   Message - BLACK
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8	1/2	5/8	5	3 3/4	6	8 3/8	12 7/8	13	7 7/8	7 3/4	2 1/2													6.25
2M	36		2 1/4	5/8	3/4	6	4 1/2	7 3/4	10 3/4	16	16 1/8	9 7/8	9 7/8	3													9.0
3	36		2 1/4	5/8	3/4	6	4 1/2	7 3/4	10 3/4	16	16 1/8	9 7/8	9 7/8	3													9.0
4	36		2 1/4	5/8	3/4	6	4 1/2	7 3/4	10 3/4	16	16 1/8	9 7/8	9 7/8	3													9.0
5	48		3	3/4	1	7	5 1/4	10	10 1/8	18 1/8	18 1/8	10 7/8	11	3 1/2													16.0

STANDARD SIGN
W7-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/24/2023 PLATE NO. W7-6.4

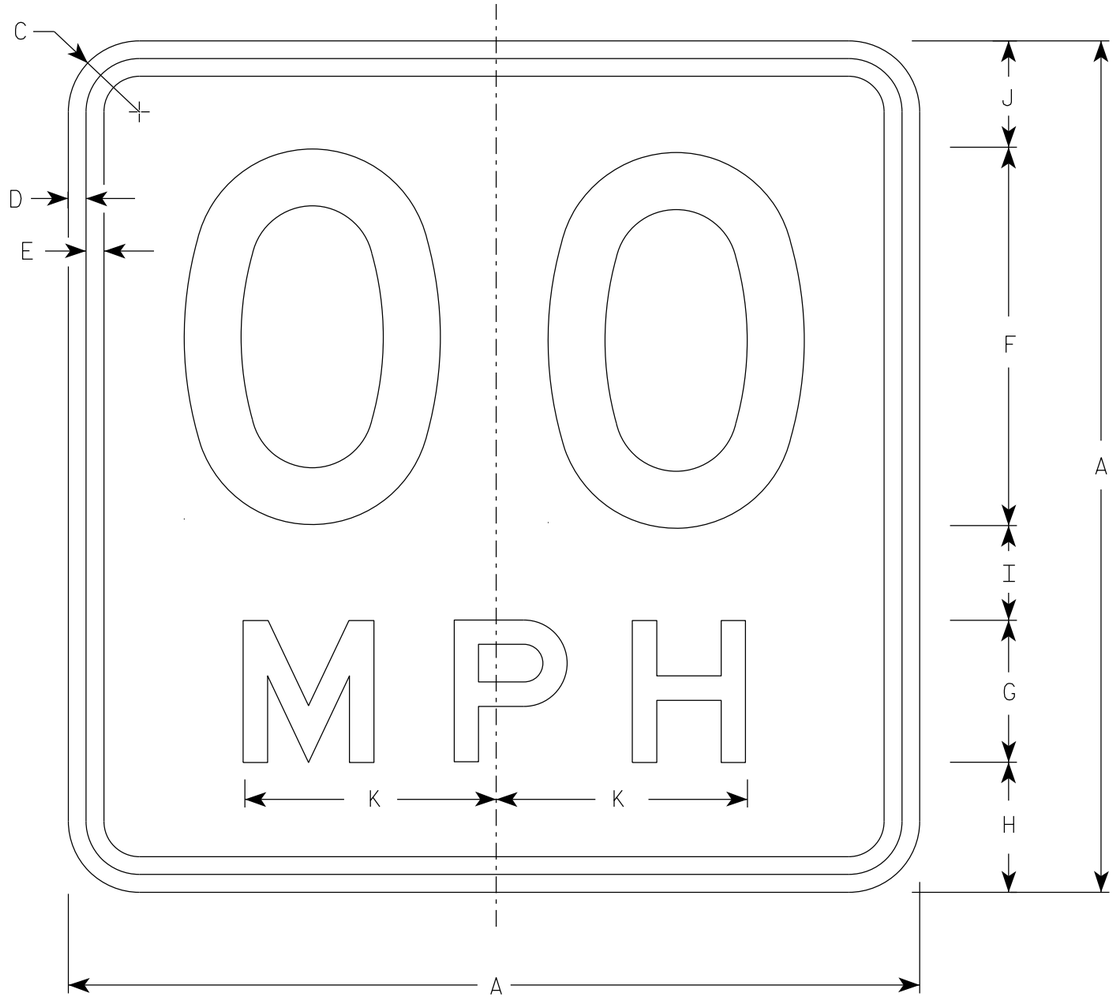
PROJECT NO:

SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W76.dgn

PLOT DATE : 24-OCT 2023 7:00

PLOT BY : dotc4c



W13-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 5
4. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
5. Line 1 is Series D
   Line 2 is Series E

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/8/2024 PLATE NO. W13-1.17

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W131.dgn PLOT DATE : 8-Jan 2024 11:07 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

GRANDVIEW ROAD
EARTHWORK VOLUME

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
10+59.00	64.14	22.06	0.00	0.00	0.00	0.00	0.00
11+00.00	55.00	47.23	90.46	52.61	90.46	52.61	37.85
11+50.00	48.15	84.81	95.51	122.26	185.97	174.87	11.10
12+00.00	27.19	123.49	69.76	192.87	255.73	367.74	-112.01
12+50.00	16.04	150.66	40.03	253.84	295.76	621.58	-325.82
13+00.00	0.00	204.81	14.85	329.14	310.60	950.72	-640.11
13+50.00	12.20	290.66	11.30	458.76	321.90	1409.48	-1087.57
14+00.00	9.99	409.28	20.55	648.09	342.46	2057.57	-1715.11
14+50.00	8.51	315.99	17.13	671.55	359.59	2729.11	-2369.53
15+00.00	8.63	648.63	15.87	893.17	375.46	3622.28	-3246.82
15+50.00	9.07	724.73	16.39	1271.63	391.85	4893.91	-4502.05
16+00.00	10.62	788.88	18.22	1401.49	410.08	6295.39	-5885.32
16+32.72	8.59	275.39	11.64	644.95	421.72	6940.34	-6518.63
16+42.54	8.07	257.87	3.03	96.88	424.74	7037.23	-6612.48
16+76.51	7.42	252.58	9.75	321.16	434.49	7358.38	-6923.89
17+00.00	9.66	246.53	7.43	217.11	441.92	7575.49	-7133.57
17+31.04	2.02	469.38	6.71	411.48	448.63	7986.97	-7538.34
18+00.00	6.04	154.92	10.28	797.29	458.92	8784.26	-8325.35
18+10.00	17.89	153.13	4.43	57.04	463.35	8841.31	-8377.96
18+50.00	31.68	199.90	36.72	261.50	500.07	9102.81	-8602.74

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
19+00.00	0.00	163.81	29.33	336.77	529.40	9439.57	-8910.17
19+50.00	0.00	158.77	0.00	298.69	529.40	9738.26	-9208.86
20+00.00	28.27	90.17	26.18	230.50	555.58	9968.76	-9413.19
20+50.00	72.09	49.43	92.93	129.26	648.51	10098.02	-9449.51
21+00.00	141.33	8.50	197.61	53.64	846.12	10151.66	-9305.54
21+31.00	256.14	0.00	227.86	4.83	1073.98	10156.48	-9082.50
21+50.00	243.85	0.00	175.92	0.00	1249.91	10156.49	-8906.58
21+82.00	468.80	0.00	422.31	0.00	1672.22	10156.49	-8484.27
22+40.00	459.81	0.00	997.39	0.00	2669.61	10156.49	-7486.87
22+50.00	456.97	0.00	169.78	0.00	2839.39	10156.49	-7317.10
22+70.00	223.16	0.00	251.90	0.00	3091.29	10156.49	-7065.20
22+95.00	163.25	0.00	178.89	0.00	3270.18	10156.49	-6886.30
23+14.84	135.66	2.95	109.69	1.09	3379.87	10157.58	-6777.71
23+50.00	78.52	31.40	139.45	22.37	3519.32	10179.94	-6660.63
24+00.00	18.13	113.86	89.49	134.50	3608.81	10314.44	-6705.64
24+50.00	10.91	250.09	26.89	336.99	3635.70	10651.43	-7015.73
25+00.00	15.11	329.14	24.10	536.33	3659.80	11187.76	-7527.97
25+50.00	18.67	460.67	31.28	731.31	3691.08	11919.07	-8227.99
26+00.00	12.53	589.65	28.90	972.52	3719.97	12891.59	-9171.61
26+50.00	15.33	693.37	25.80	1187.98	3745.77	14079.57	-10333.79

9

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:48:42 PM, JJelinski, 1:1

GRANDVIEW ROAD
EARTHWORK VOLUME

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
27+00.00	17.27	716.07	30.19	1305.04	3775.96	15384.60	-11608.64
27+50.00	13.37	667.36	28.37	1280.96	3804.34	16665.56	-12861.22
28+00.00	12.35	579.81	23.81	1154.79	3828.15	17820.36	-13992.20
28+50.00	15.31	437.49	25.61	941.95	3853.76	18762.30	-14908.54
29+00.00	15.38	324.96	28.41	705.98	3882.17	19468.28	-15586.10
29+50.00	19.86	209.70	32.62	495.06	3914.80	19963.34	-16048.54
29+74.00	6.25	153.77	11.61	161.54	3926.40	20124.88	-16198.48
30+00.00	28.02	148.50	16.50	145.54	3942.91	20270.42	-16327.51
30+25.00	28.48	79.39	26.16	105.51	3969.06	20375.93	-16406.86
30+50.00	22.66	83.63	23.68	75.47	3992.74	20451.40	-16458.66
31+00.00	43.63	55.38	61.26	128.63	4054.00	20580.03	-16526.03
31+50.00	61.07	27.54	96.95	76.78	4150.95	20656.80	-16505.86
31+63.00	86.04	13.92	35.42	9.98	4186.36	20666.79	-16480.42
32+00.00	67.45	20.97	105.17	23.90	4291.53	20690.69	-16399.16
32+50.00	74.18	18.28	131.15	36.34	4422.68	20727.03	-16304.35
33+00.00	71.25	21.05	134.66	36.41	4557.34	20763.44	-16206.10
33+50.00	69.71	33.07	130.51	50.11	4687.85	20813.55	-16125.70
34+00.00	68.86	23.42	128.30	52.30	4816.15	20865.85	-16049.70
34+50.00	70.56	28.22	129.09	47.81	4945.24	20913.66	-15968.42
35+00.00	57.05	33.72	118.16	57.35	5063.41	20971.01	-15907.60

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
35+50.00	63.67	9.05	111.79	39.60	5175.19	21010.61	-15835.42
36+00.00	76.44	8.00	129.73	15.79	5304.92	21026.40	-15721.48
36+38.00	76.39	0.00	107.54	5.63	5412.47	21032.04	-15619.57
37+00.00	53.60	24.76	149.24	28.43	5561.71	21060.46	-15498.76
37+30.00	72.46	14.71	70.03	21.93	5631.74	21082.40	-15450.65
37+50.00	71.27	33.20	53.24	17.75	5684.98	21100.14	-15415.17
38+00.00	67.70	17.04	128.68	46.52	5813.65	21146.66	-15333.01
38+50.00	79.56	11.71	136.26	26.64	5949.91	21173.30	-15223.39
38+68.00	92.27	9.37	57.28	7.02	6007.19	21180.33	-15173.13
39+00.00	73.51	21.85	98.24	18.50	6105.43	21198.82	-15093.39
39+50.00	77.32	17.37	139.66	36.32	6245.09	21235.14	-14990.05
40+00.00	72.70	16.22	138.91	31.10	6384.00	21266.24	-14882.24
40+50.00	66.08	26.15	128.50	39.23	6512.50	21305.47	-14792.96
41+00.00	92.15	14.92	146.51	38.03	6659.01	21343.50	-14684.48
41+12.00	83.59	14.14	39.05	6.46	6698.07	21349.95	-14651.89
41+50.00	89.95	9.56	122.12	16.68	6820.18	21366.64	-14546.45
42+00.00	93.35	22.64	169.72	29.82	6989.90	21396.46	-14406.56
42+50.00	75.52	31.62	156.36	50.24	7146.26	21446.70	-14300.44
42+73.00	77.88	33.72	65.34	27.83	7211.60	21474.53	-14262.93
43+00.00	71.77	45.87	74.82	39.80	7286.42	21514.33	-14227.91

GRANDVIEW ROAD EARTHWORK VOLUME

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
43+50.00	85.20	55.81	145.35	94.15	7431.77	21608.48	-14176.71
44+00.00	94.82	78.99	166.21	124.99	7597.98	21733.48	-14135.49
44+11.00	108.01	72.33	41.32	30.83	7639.30	21764.30	-14125.00
44+38.00	89.65	91.08	98.83	81.70	7738.13	21846.00	-14107.88
44+50.00	59.51	91.38	33.15	40.54	7771.27	21886.55	-14115.28
45+00.00	61.55	19.87	112.09	103.01	7883.36	21989.56	-14106.20
45+50.00	91.60	16.09	141.80	33.30	8025.17	22022.86	-13997.69
46+00.00	98.03	9.54	175.58	23.73	8200.75	22046.59	-13845.84
46+24.00	118.88	4.33	96.40	6.16	8297.15	22052.76	-13755.61
46+50.00	113.71	0.96	111.99	2.54	8409.14	22055.30	-13646.16
47+00.00	96.95	0.92	195.41	1.74	8604.54	22057.04	-13452.50
47+50.00	116.44	0.75	197.58	1.55	8802.13	22058.59	-13256.46
48+00.00	66.64	14.92	169.51	14.51	8971.64	22073.10	-13101.47
48+50.00	53.56	12.22	111.29	25.14	9082.93	22098.24	-13015.31
48+94.00	97.34	1.68	122.95	11.32	9205.88	22109.56	-12903.68
49+00.00	100.77	5.50	22.01	0.80	9227.89	22110.36	-12882.47
49+50.00	66.59	25.49	154.97	28.69	9382.86	22139.05	-12756.19
50+00.00	37.61	33.44	96.49	54.56	9479.35	22193.61	-12714.26
50+50.00	32.20	49.66	64.65	76.94	9544.00	22270.56	-12726.56
51+00.00	35.00	45.59	62.22	88.19	9606.22	22358.75	-12752.53

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
51+50.00	39.45	45.20	68.93	84.06	9675.15	22442.81	-12767.66
52+00.00	40.49	49.53	74.02	87.72	9749.17	22530.53	-12781.36
52+50.00	36.97	55.12	71.72	96.91	9820.90	22627.44	-12806.54
53+00.00	30.58	52.49	62.55	99.64	9883.45	22727.08	-12843.63
53+26.00	51.55	7.08	39.55	28.69	9922.99	22755.77	-12832.77
53+50.00	36.50	42.05	39.13	21.84	9962.12	22777.60	-12815.48
54+00.00	29.24	38.50	60.87	74.59	10022.99	22852.19	-12829.20
54+50.00	23.26	42.10	48.61	74.64	10071.60	22926.83	-12855.23
55+00.00	24.75	51.11	44.46	86.31	10116.05	23013.14	-12897.08
55+50.00	23.63	61.85	44.80	104.60	10160.85	23117.73	-12956.88
56+00.00	21.59	67.90	41.87	120.15	10202.72	23237.88	-13035.16
56+50.00	23.78	64.70	42.01	122.78	10244.73	23360.66	-13115.93
57+00.00	26.08	51.43	46.17	107.53	10290.90	23468.19	-13177.29
57+50.00	28.47	44.12	50.51	88.48	10341.41	23556.67	-13215.26
58+00.00	35.93	39.56	59.63	77.49	10401.04	23634.15	-13233.11
58+50.00	37.52	39.60	68.01	73.30	10469.05	23707.46	-13238.41
59+00.00	43.69	41.26	75.19	74.88	10544.24	23782.33	-13238.10
59+50.00	40.33	40.74	77.79	75.93	10622.03	23858.26	-13236.24
60+00.00	48.57	33.16	82.31	68.43	10704.34	23926.69	-13222.35
60+50.00	64.67	26.95	104.85	55.66	10809.19	23982.35	-13173.15

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
60+86.00	69.59	40.74	89.51	45.13	10898.70	24027.47	-13128.77
61+00.00	74.23	18.21	37.29	15.29	10935.99	24042.76	-13106.77
61+50.00	52.40	8.33	117.25	24.58	11053.24	24067.34	-13014.10
62+00.00	44.23	7.55	89.50	14.69	11142.73	24082.02	-12939.29
62+50.00	39.29	4.02	77.34	10.72	11220.07	24092.75	-12872.67

9

PROJECT NO: 6508-01-71 | HWY: GRANDVIEW ROAD | COUNTY: OUTAGAMIE | CROSS SECTIONS: GRANDVIEW ROAD | SHEET 125 | E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 49

PLOT DATE : 3/26/2025 2:48 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:48:48 PM, JJelinski, 1:1

HILLCREST DRIVE
EARTHWORK VOLUME

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
101+04.00	31.68	1.65	0.00	0.00	0.00	0.00	0.00
101+25.00	48.62	0.10	31.23	0.68	31.23	0.68	30.55
101+50.00	163.14	1.37	98.04	0.68	129.27	1.36	127.91
101+70.00	182.77	0.00	128.12	0.51	257.38	1.87	255.52
102+00.00	197.46	6.97	211.24	3.87	468.62	5.74	462.88
102+25.00	284.06	0.00	222.92	3.23	691.54	8.97	682.57
102+50.00	406.43	0.00	319.67	0.00	1011.22	8.97	1002.24
102+75.00	178.58	0.00	270.84	0.00	1282.05	8.97	1273.08

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:48:53 PM, JJelinski, 1:1

*THESE QUANTITIES ARE INCLUDED IN THE EARTHWORK SUMMARY TABLE UNDER THE GRANDVIEW ROAD STA.10+45 - STA. 62+57

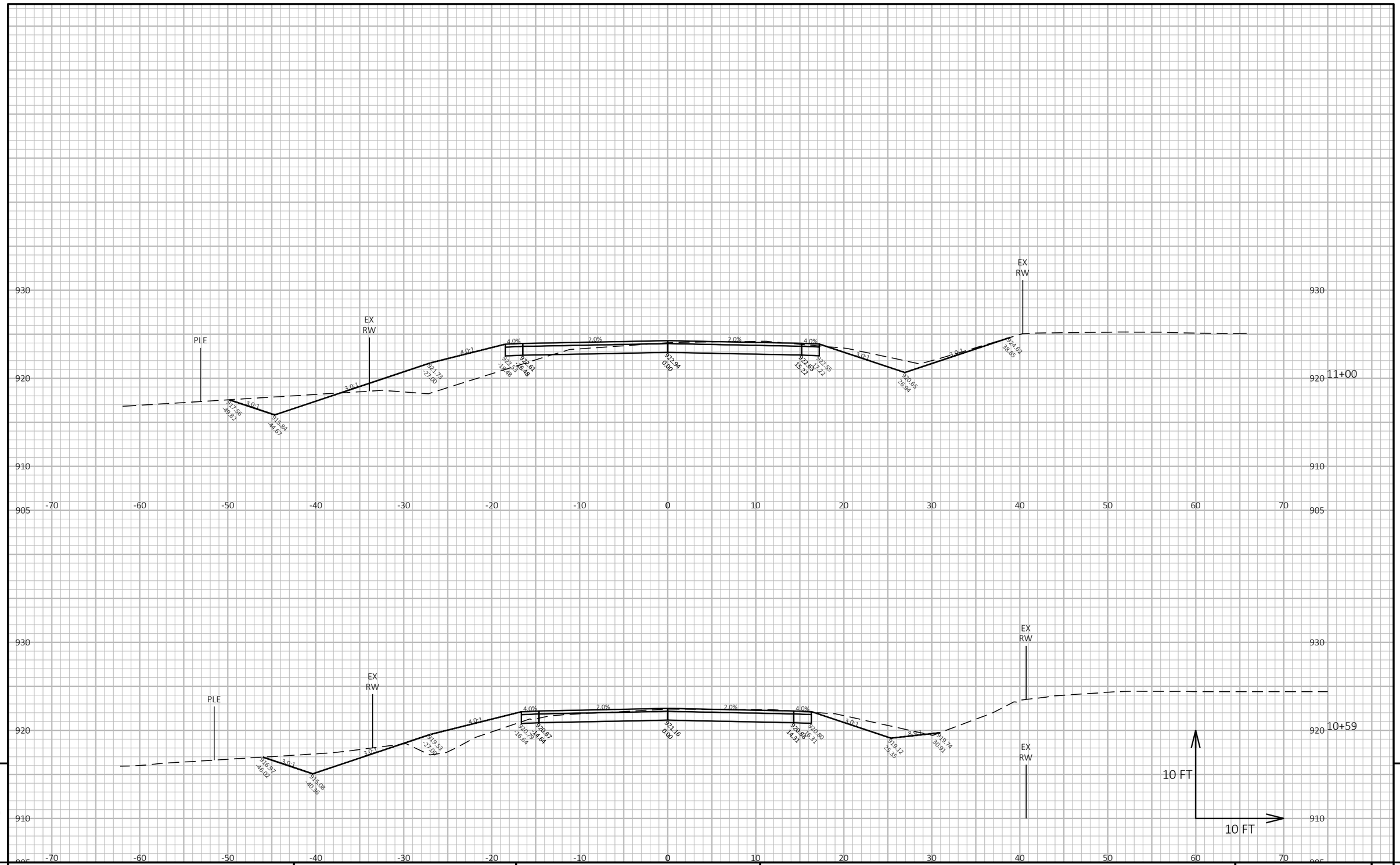
*DRIVEWAY STA 14+35 LT EARTHWORK VOLUME

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
0+30.00	0.00	88.85	0.00	0.00	0.00	0.00	0.00
0+75.00	7.20	0.62	6.00	74.56	6.00	74.56	-68.56
1+00.00	7.79	0.13	6.94	0.35	12.94	74.90	-61.96
1+15.00	8.77	0.01	4.60	0.04	17.54	74.94	-57.40

*DRIVEWAY STA 16+85 LT EARTHWORK VOLUME

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
0+59.12	0.00	533.85	0.00	0.00	0.00	0.00	0.00
0+81.51	4.19	216.70	1.74	311.17	1.74	311.17	-309.43
1+00.00	2.84	100.44	2.41	108.60	4.15	419.78	-415.63

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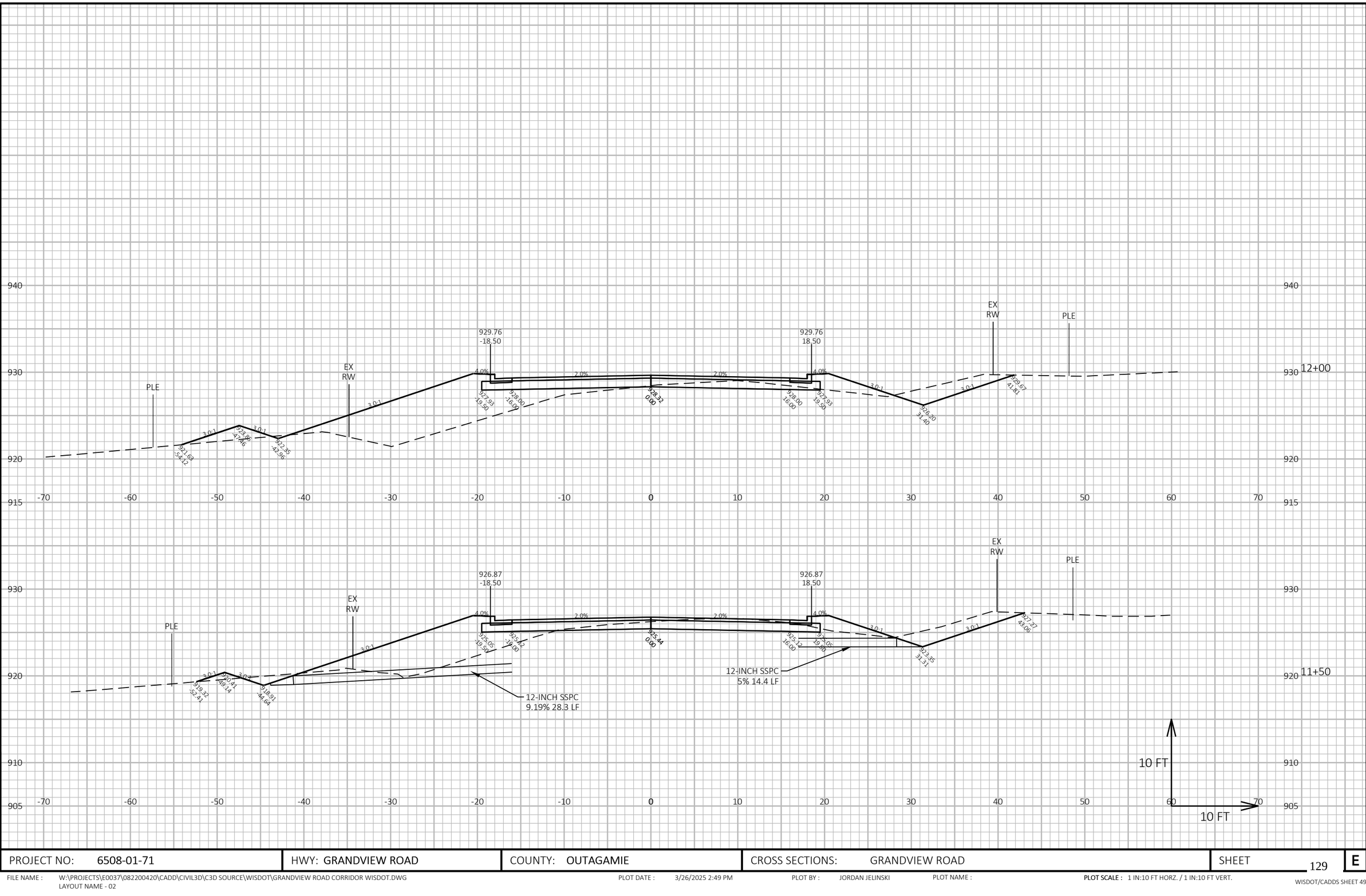
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 128	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 01

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:01 PM, JJelinski, 1:1



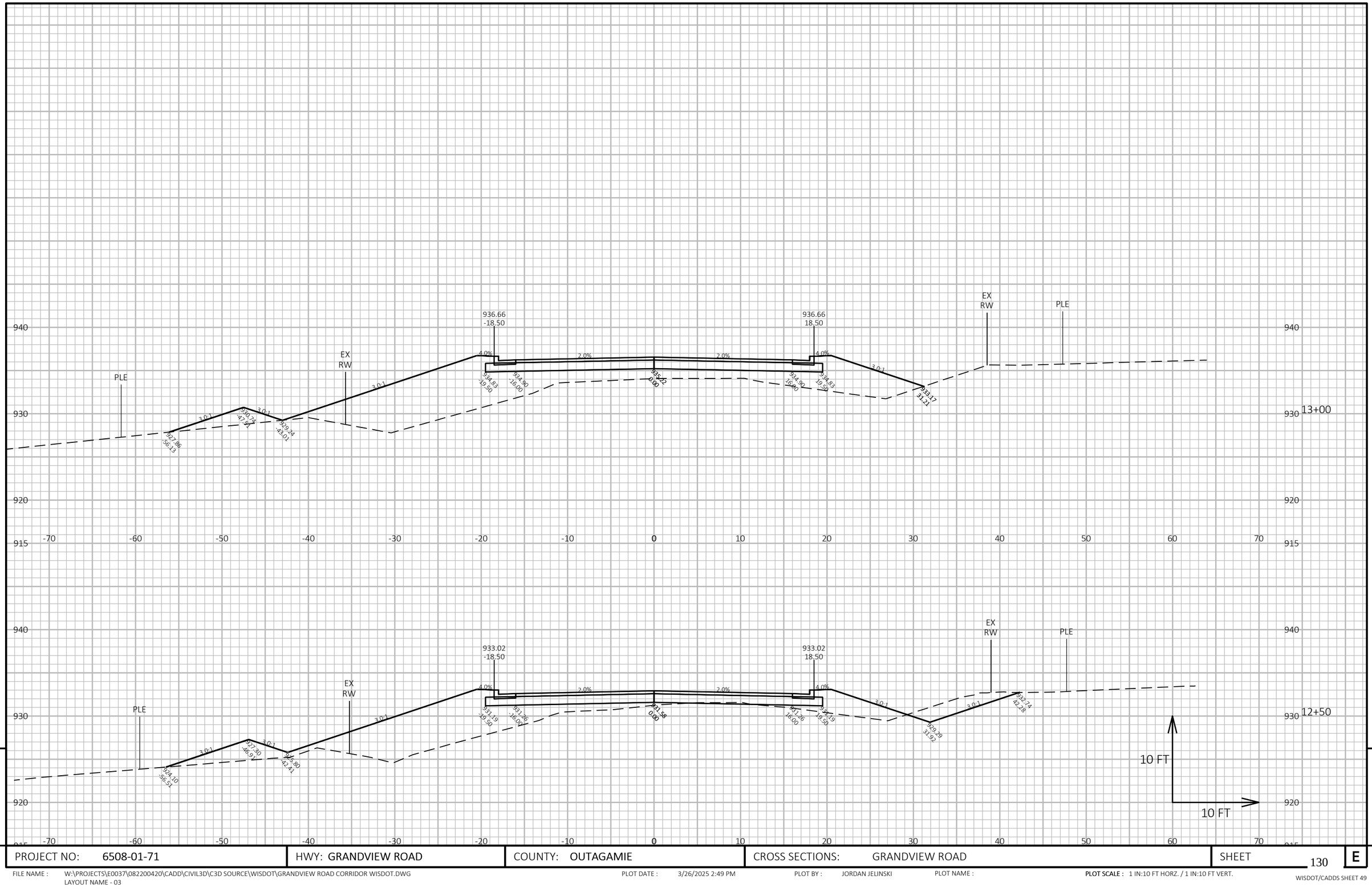
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 129	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 02

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:04 PM, JJelinski, 1:1



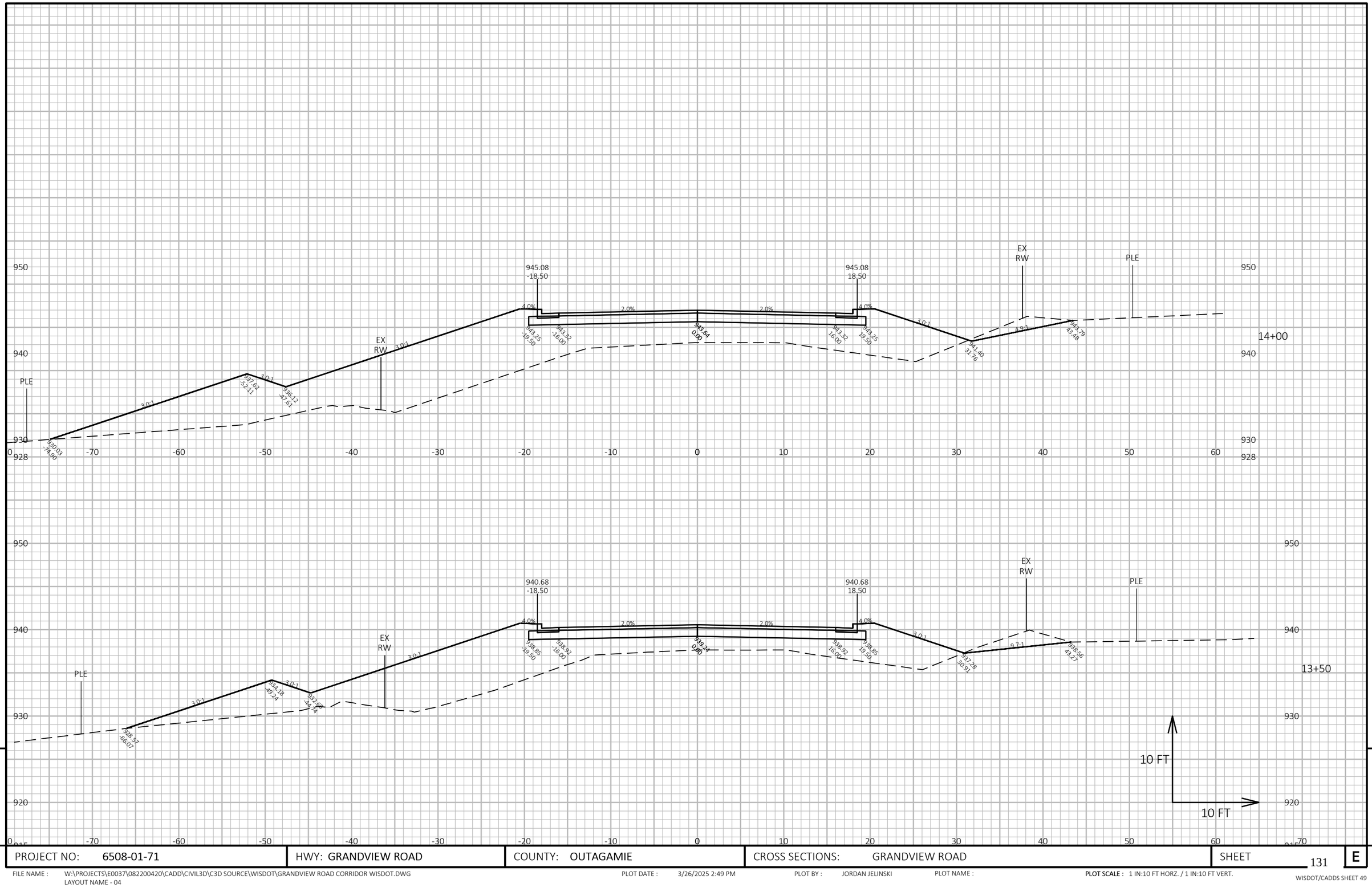
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 130	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 03

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:07 PM, JJelinski, 1:1



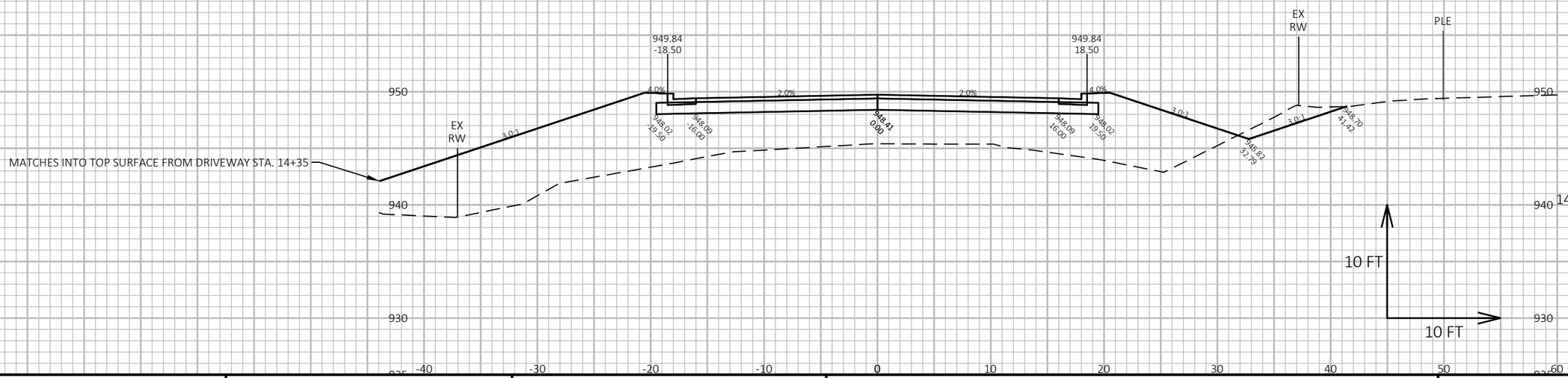
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 131	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 04

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:10 PM, JJelinski, 1:1



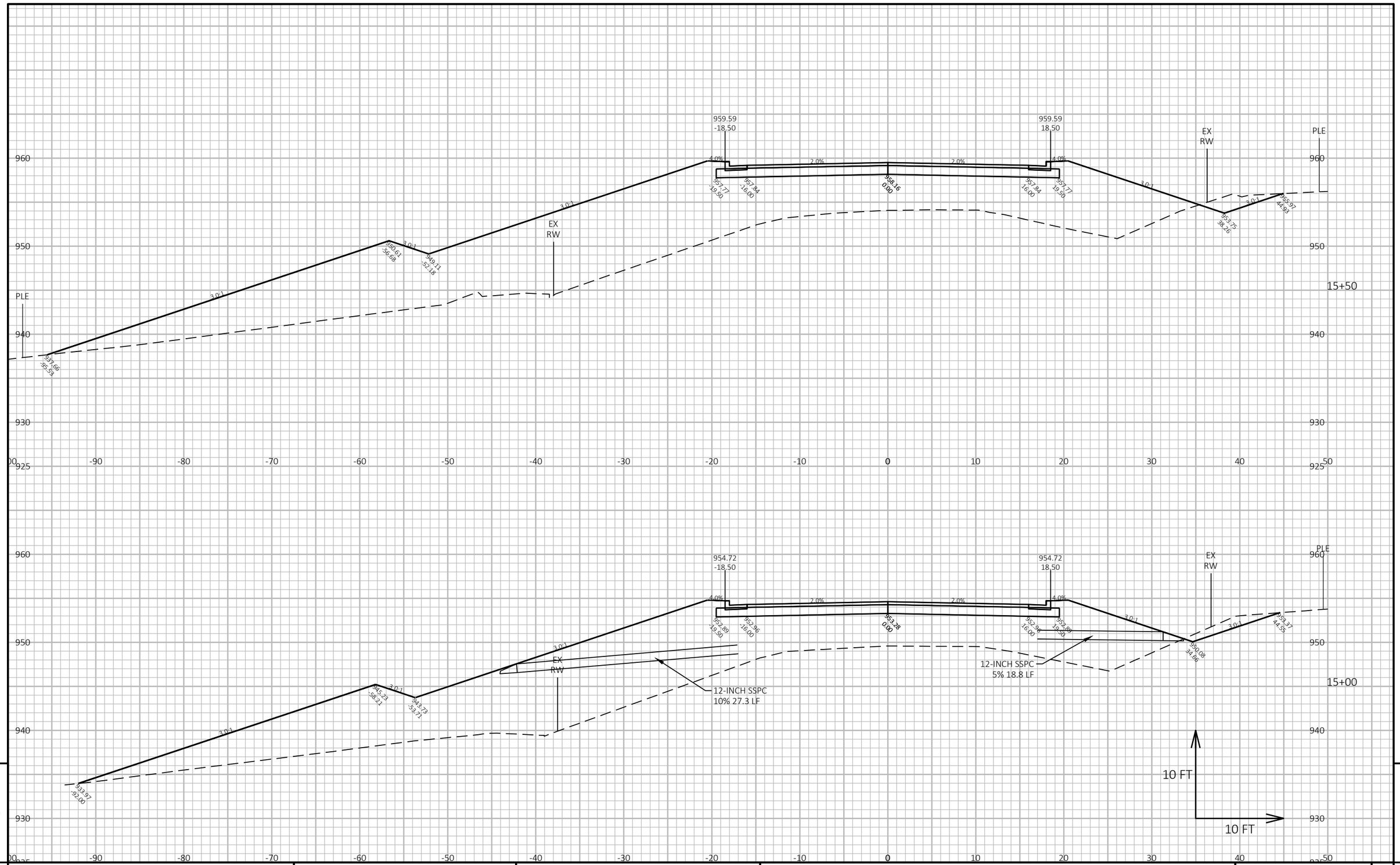
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 132	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 05

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:13 PM, JJelinski, 1:1



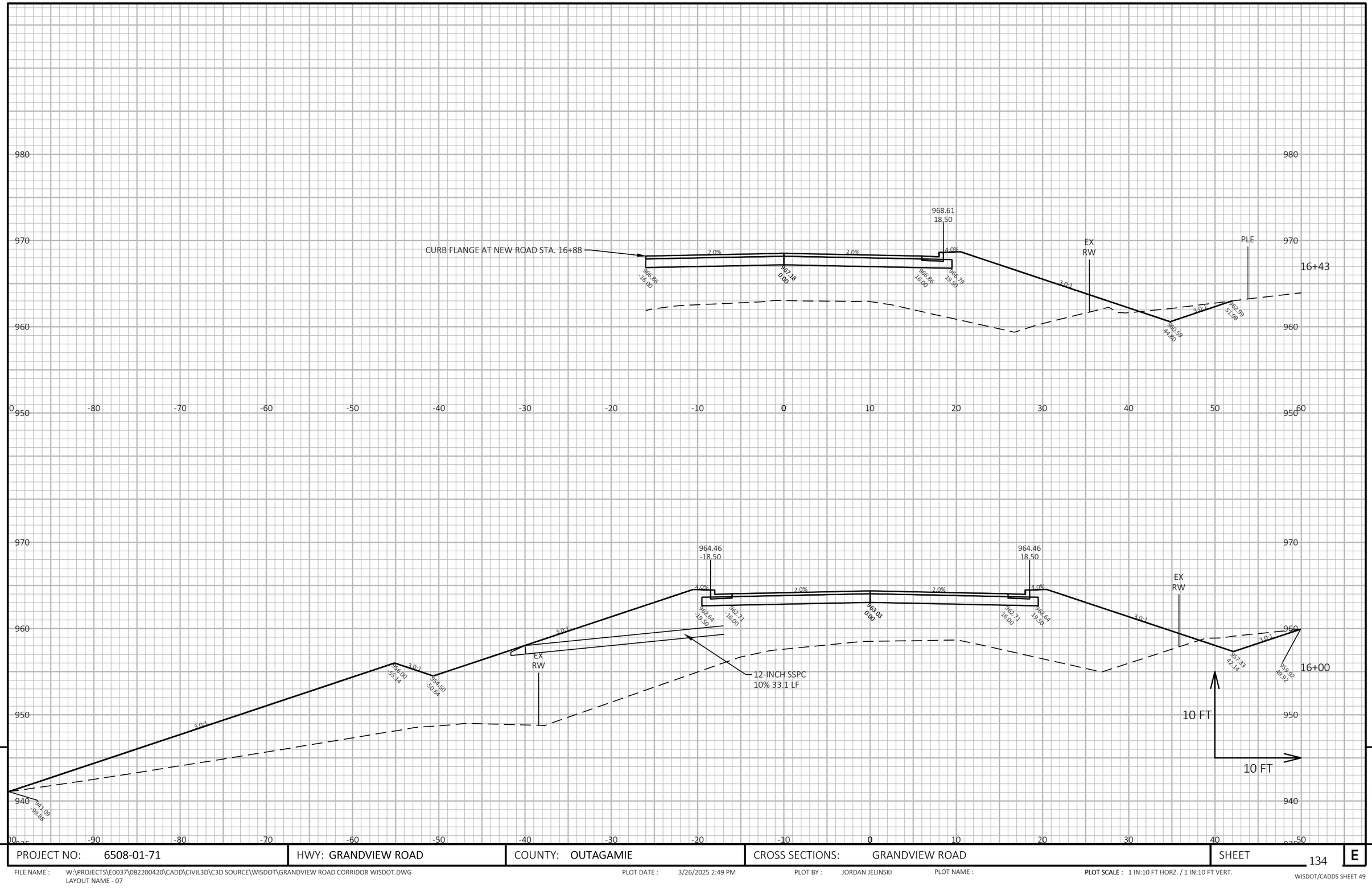
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 133	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 06

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:16 PM, JJelinski, 1:1



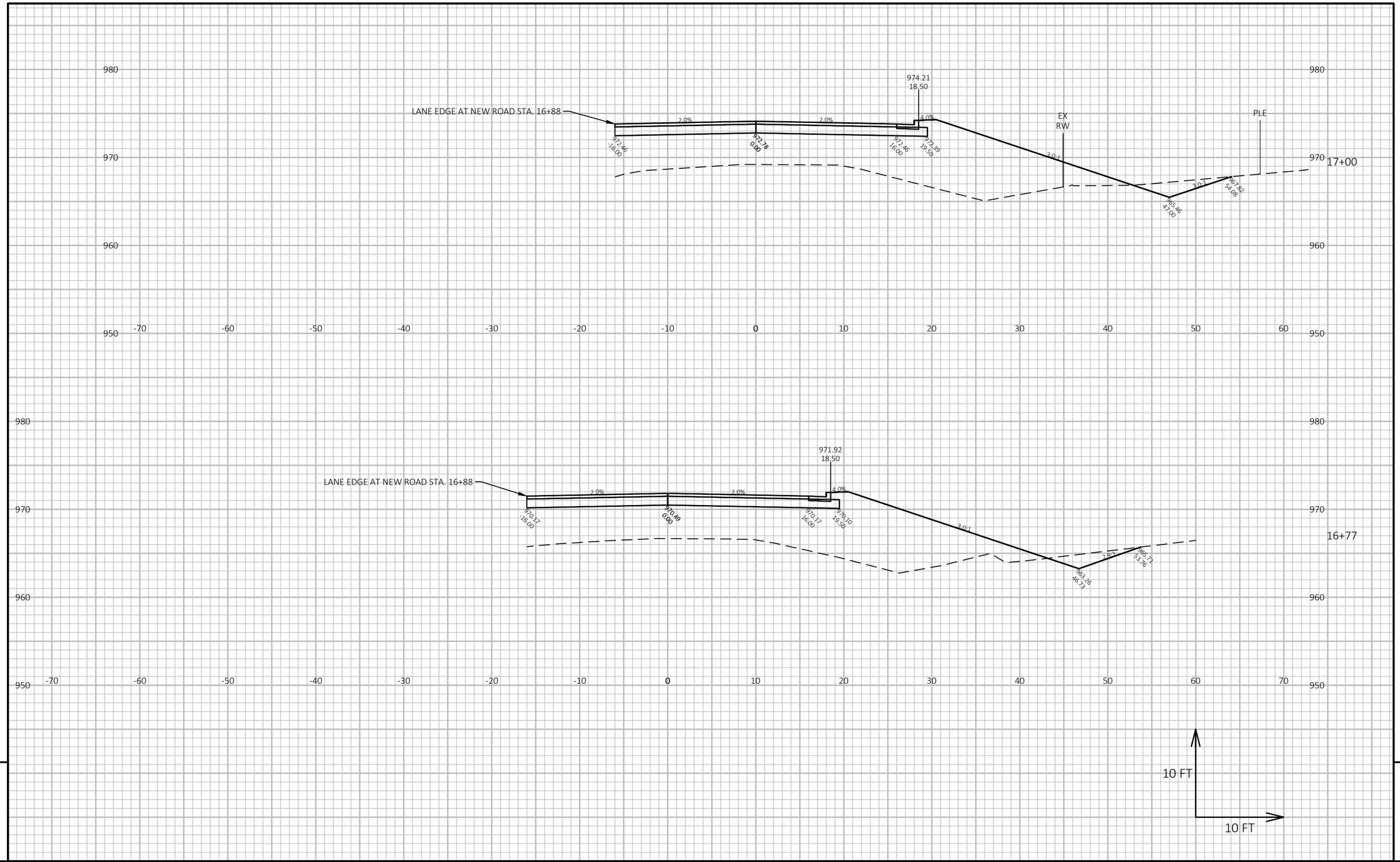
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FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 07

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:19 PM, JJelinski, 1:1



9

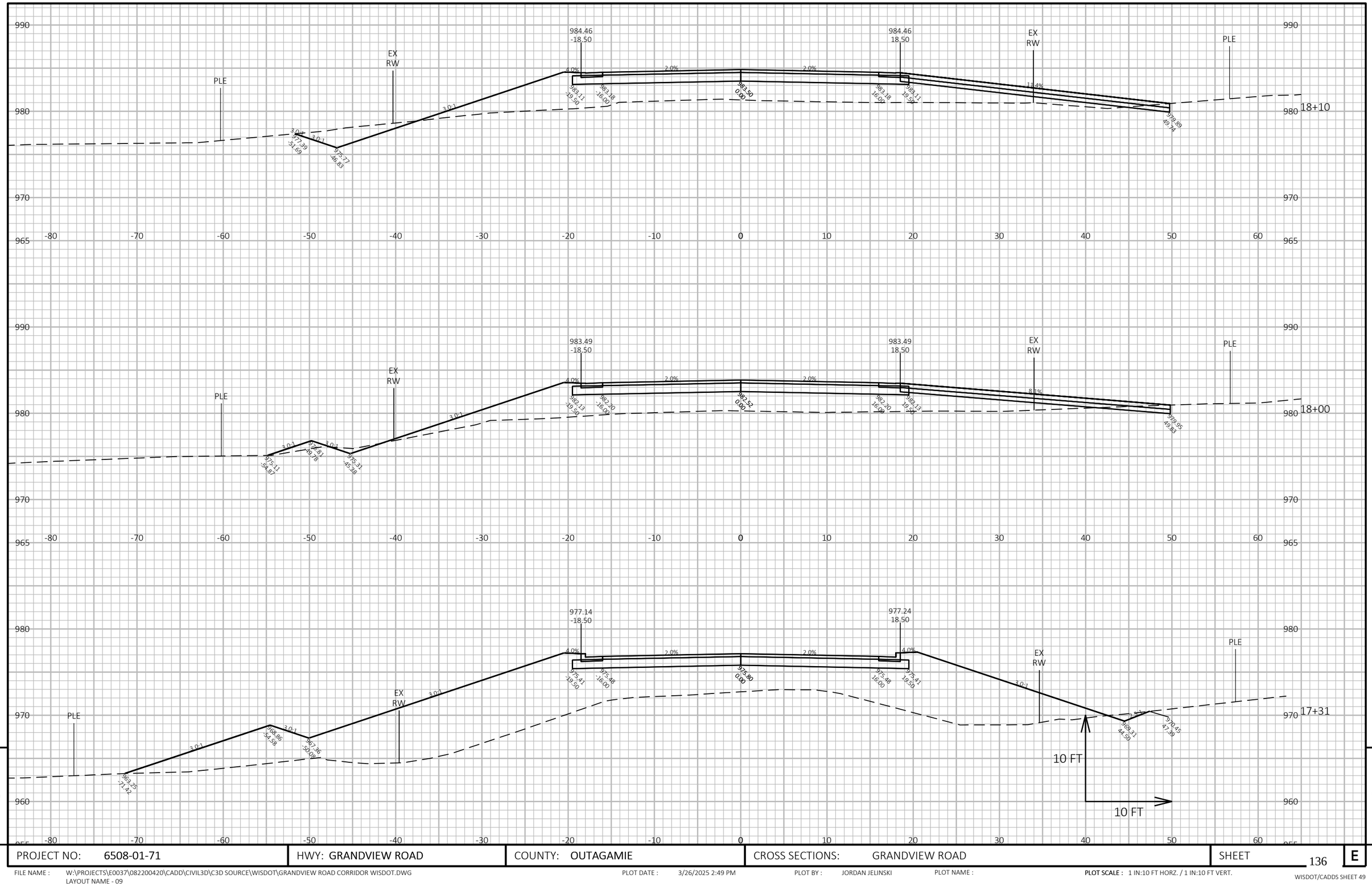
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 135	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 08

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:22 PM, JJelinski, 1:1



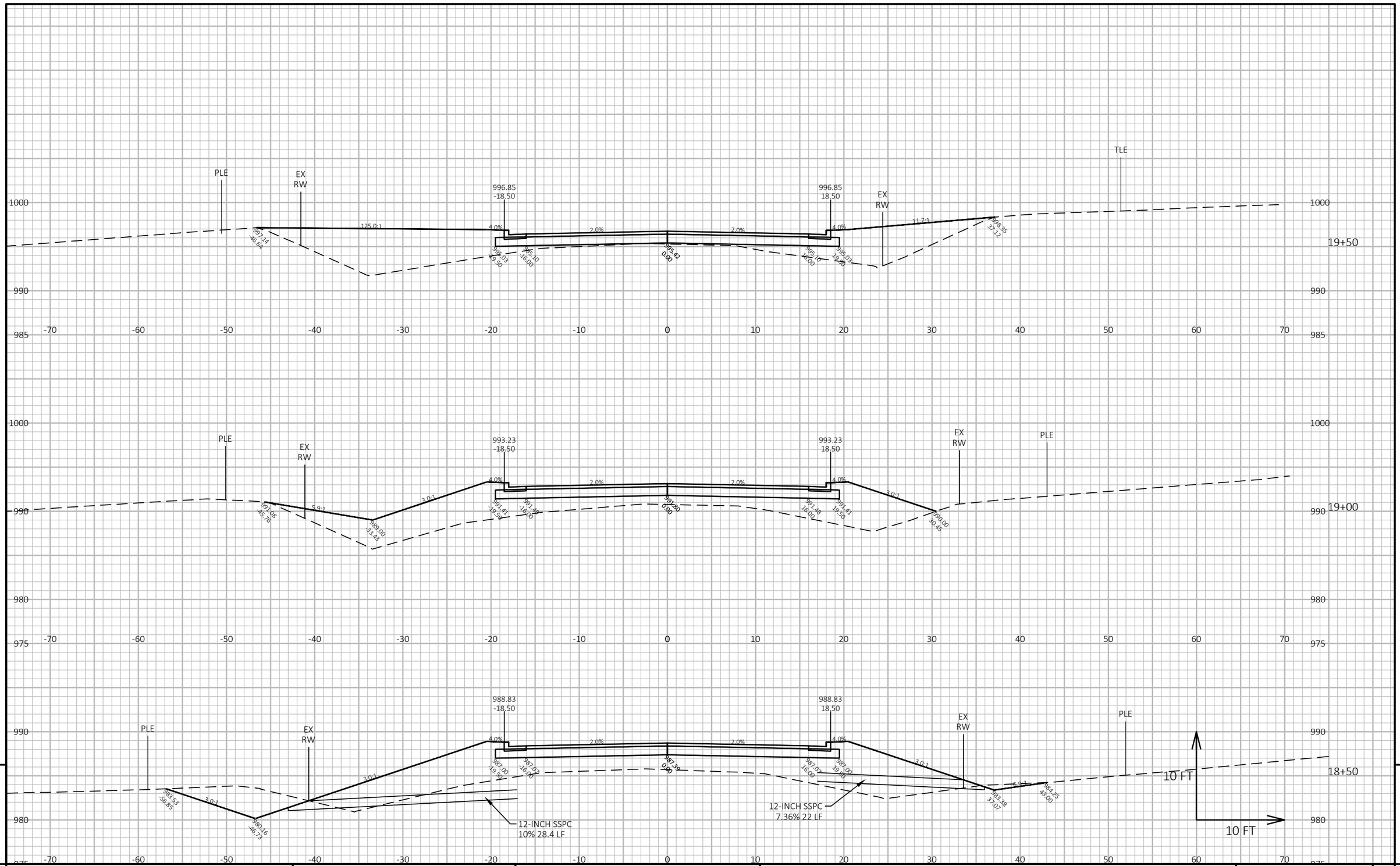
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 136	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 09

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:25 PM, JJelinski, 1:1



9

9

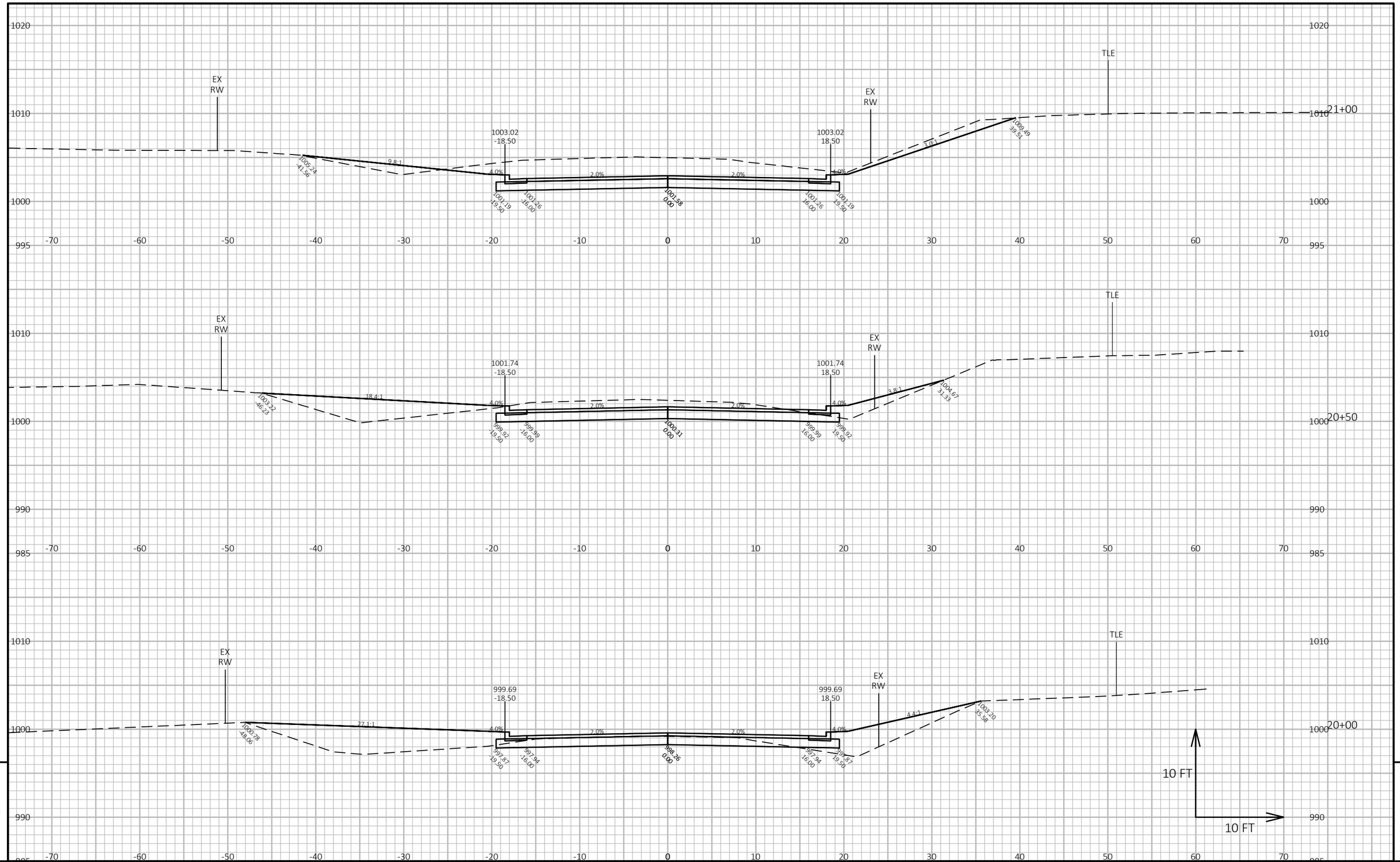
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 137	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 10

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D SourceWISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:28 PM, JJelinski, 1:1



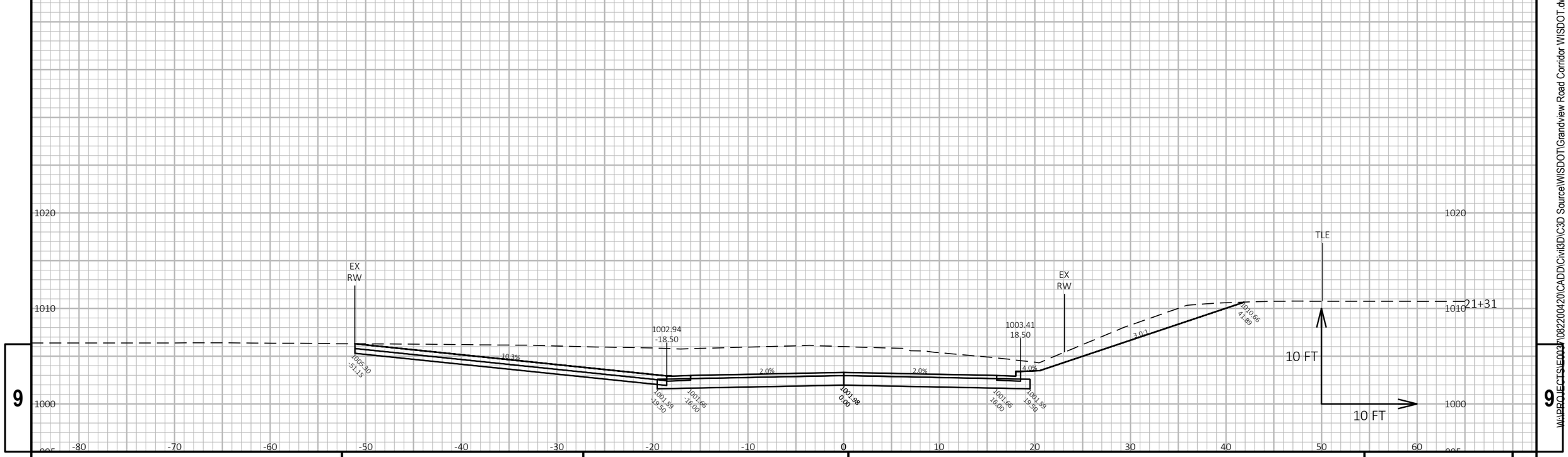
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 138 E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 11

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:31 PM, JJelinski, 1:1



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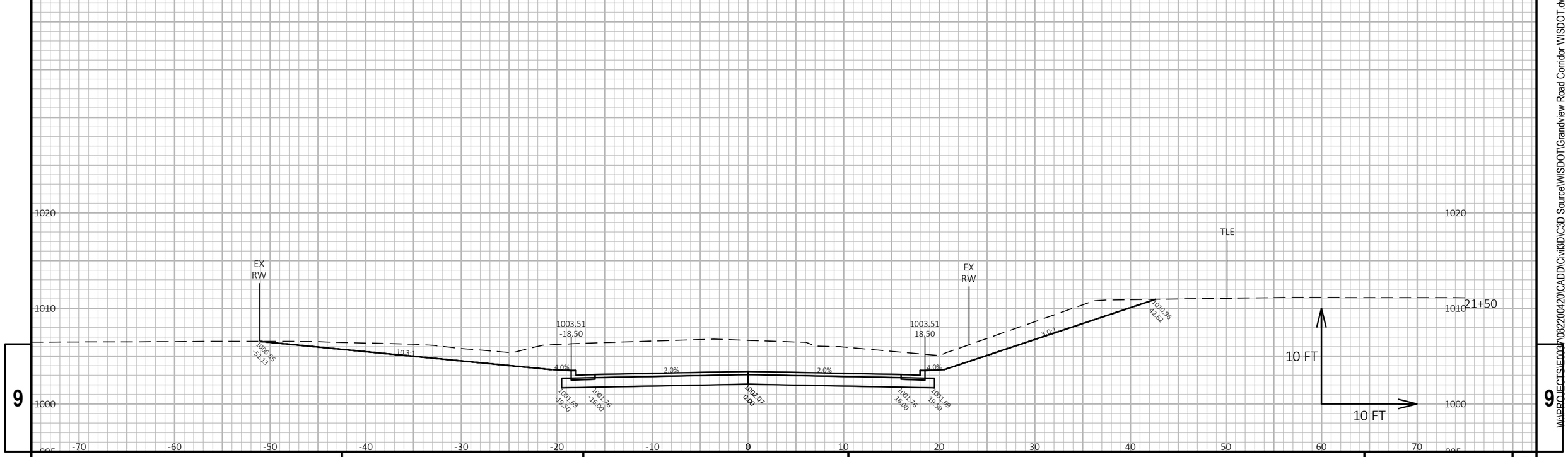
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 139	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 12

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:35 PM, JJelinski, 1:1



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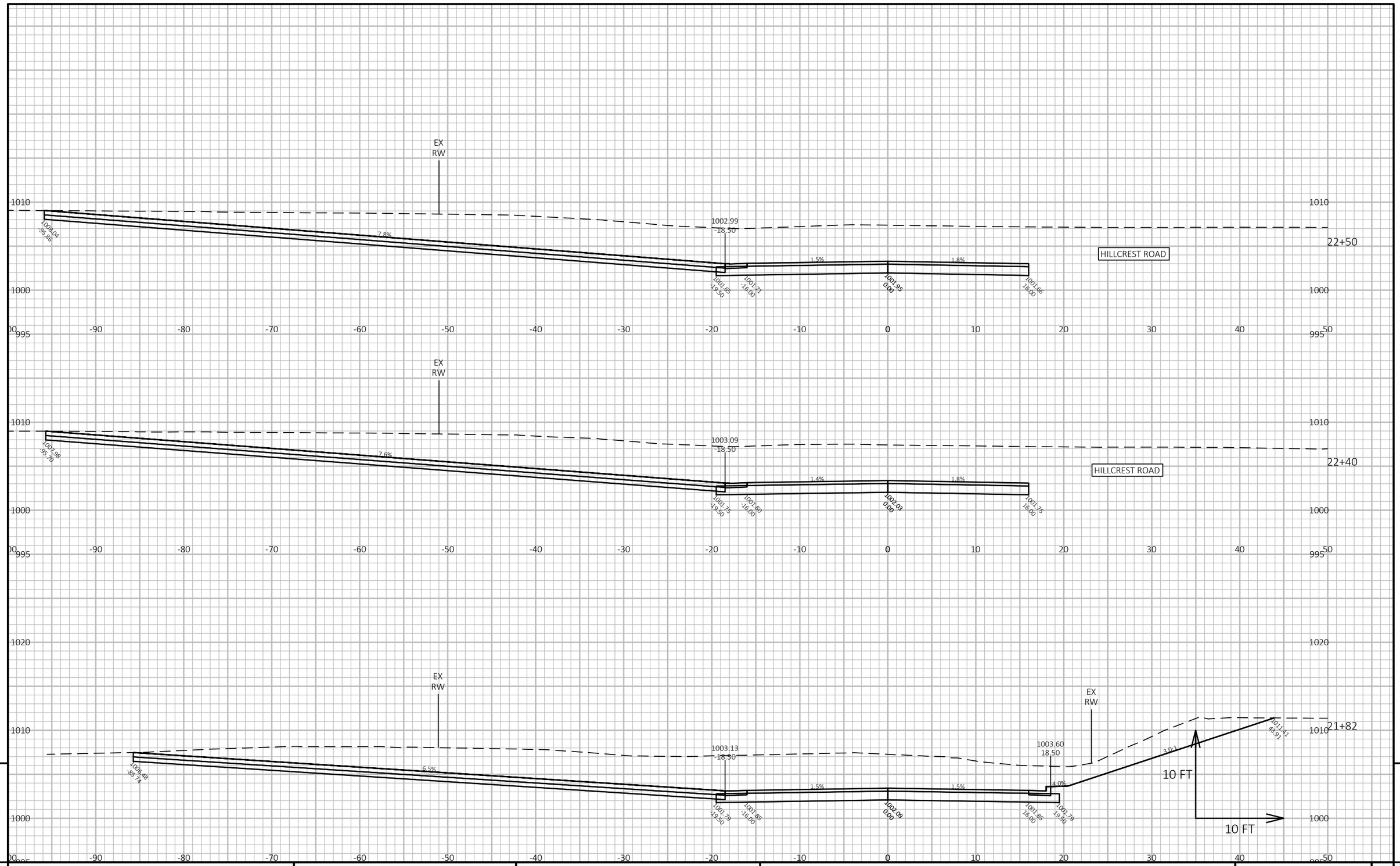
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 140	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 13

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:38 PM, JJelinski, 1:1



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 141	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 14

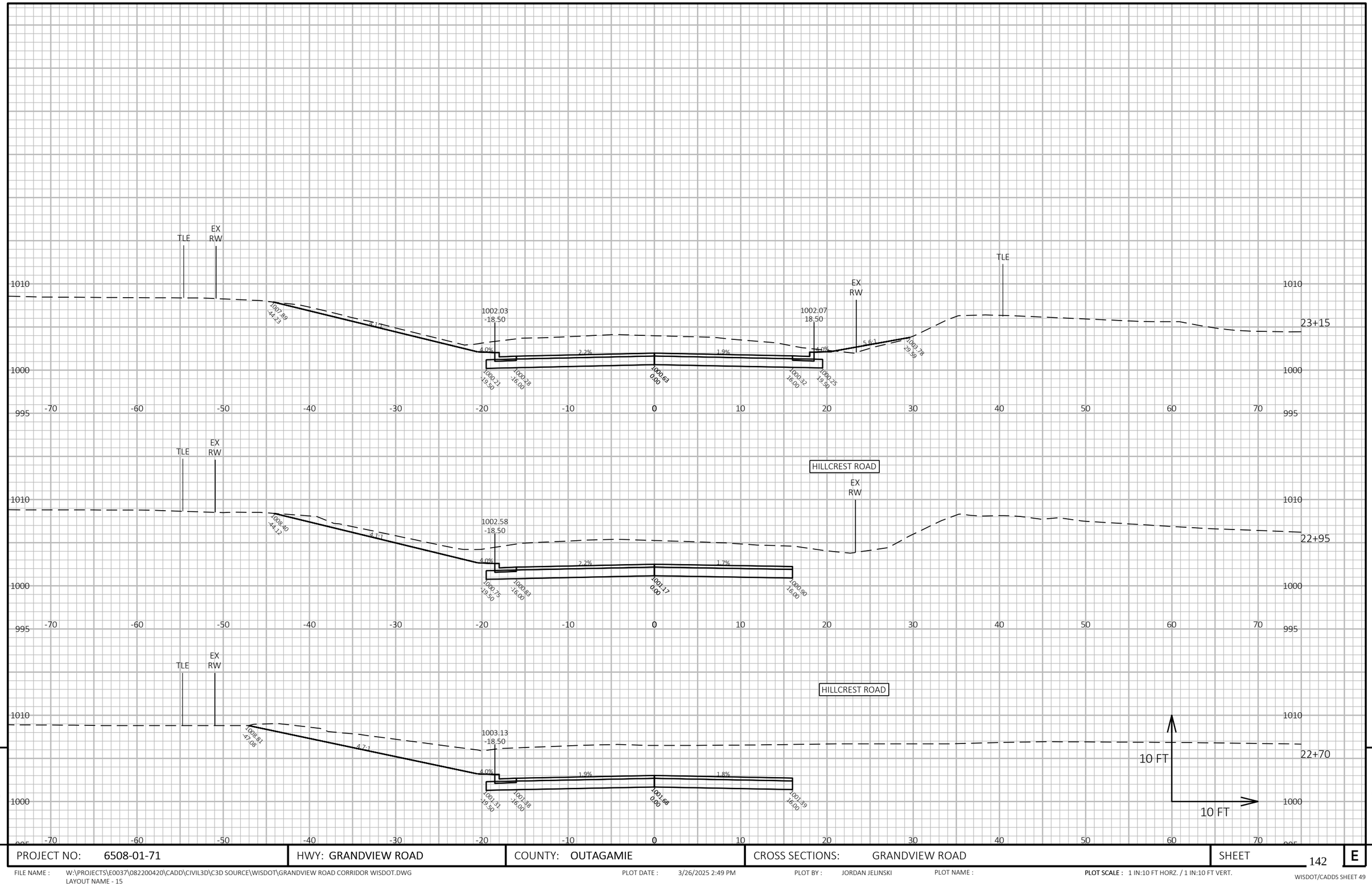
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WISDOT/CADDS SHEET 49

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W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D SourceWISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:41 PM, JJelinski, 1:1

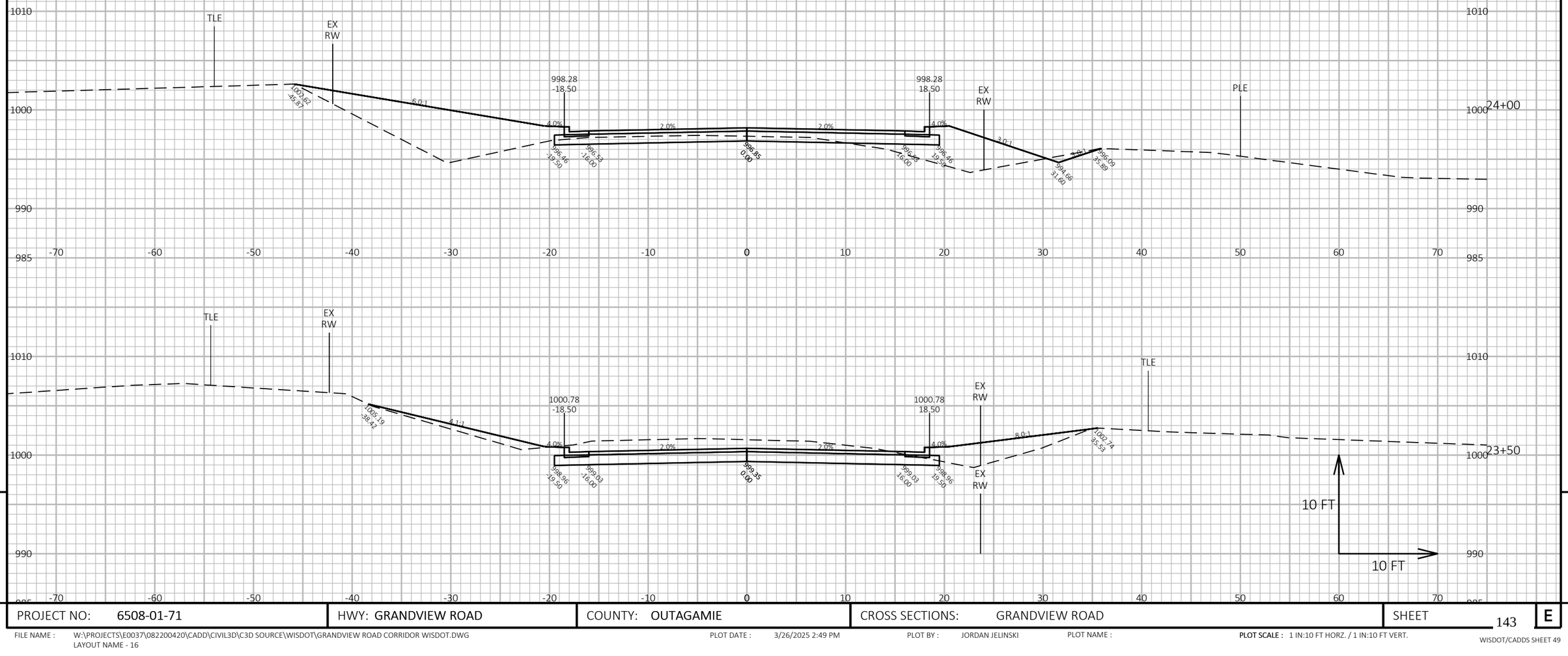


PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 142	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 15

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:44 PM, JJelinski, 1:1



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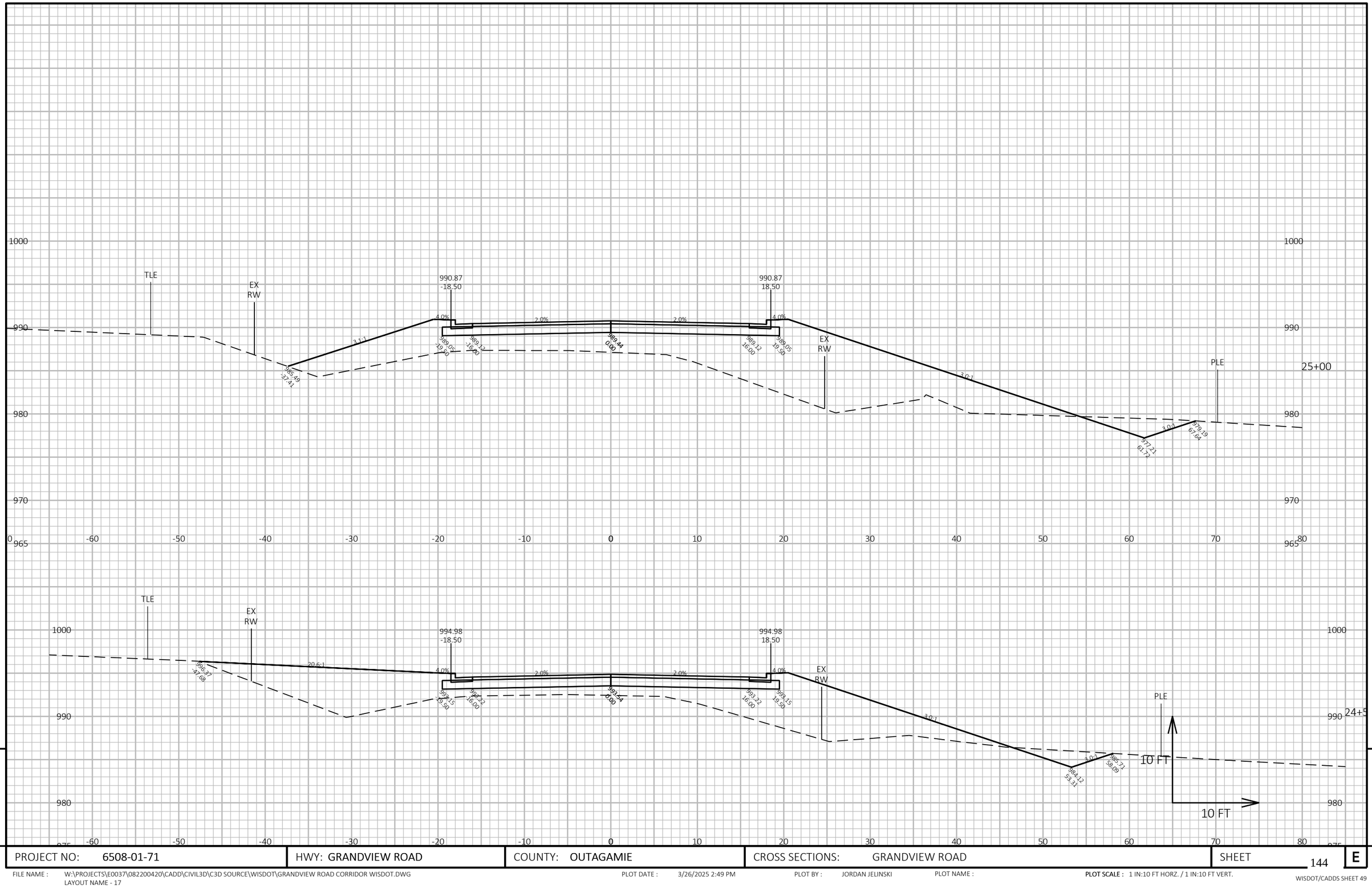
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FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 16

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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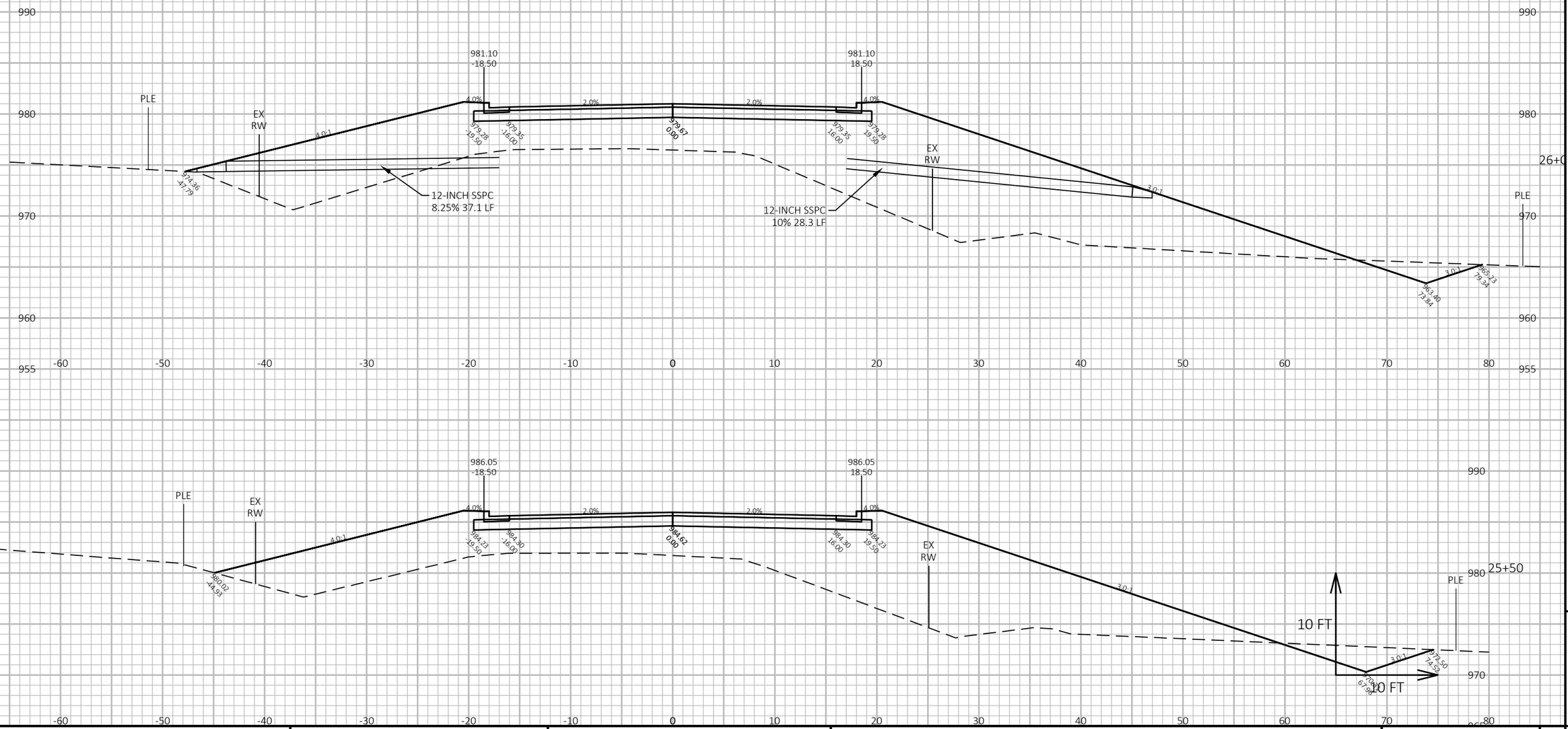
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FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 17

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:50 PM, JJelinski, 1:1



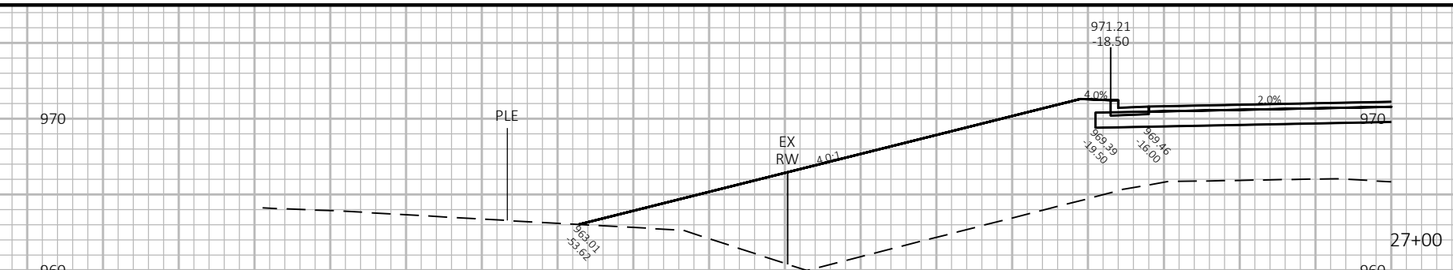
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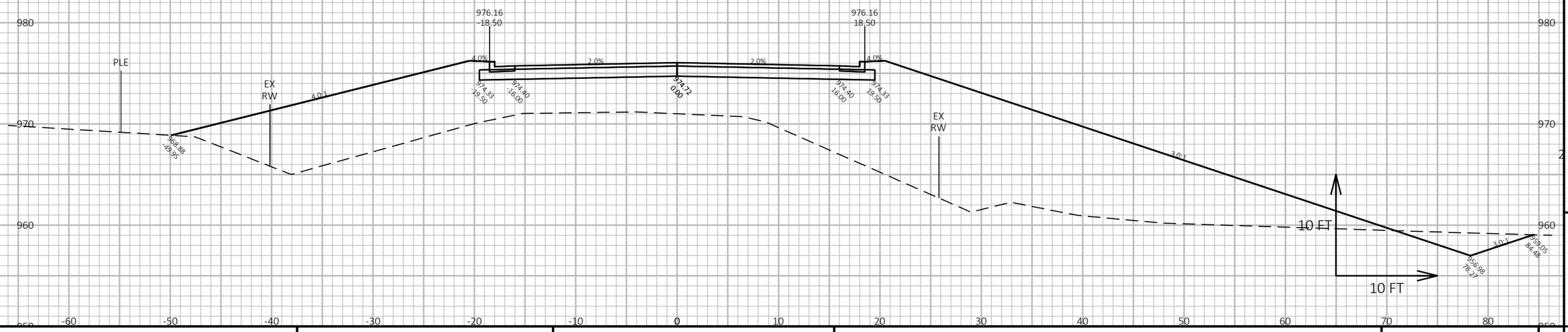
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LAYOUT NAME - 18

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:49:53 PM, JJelinski, 1:1





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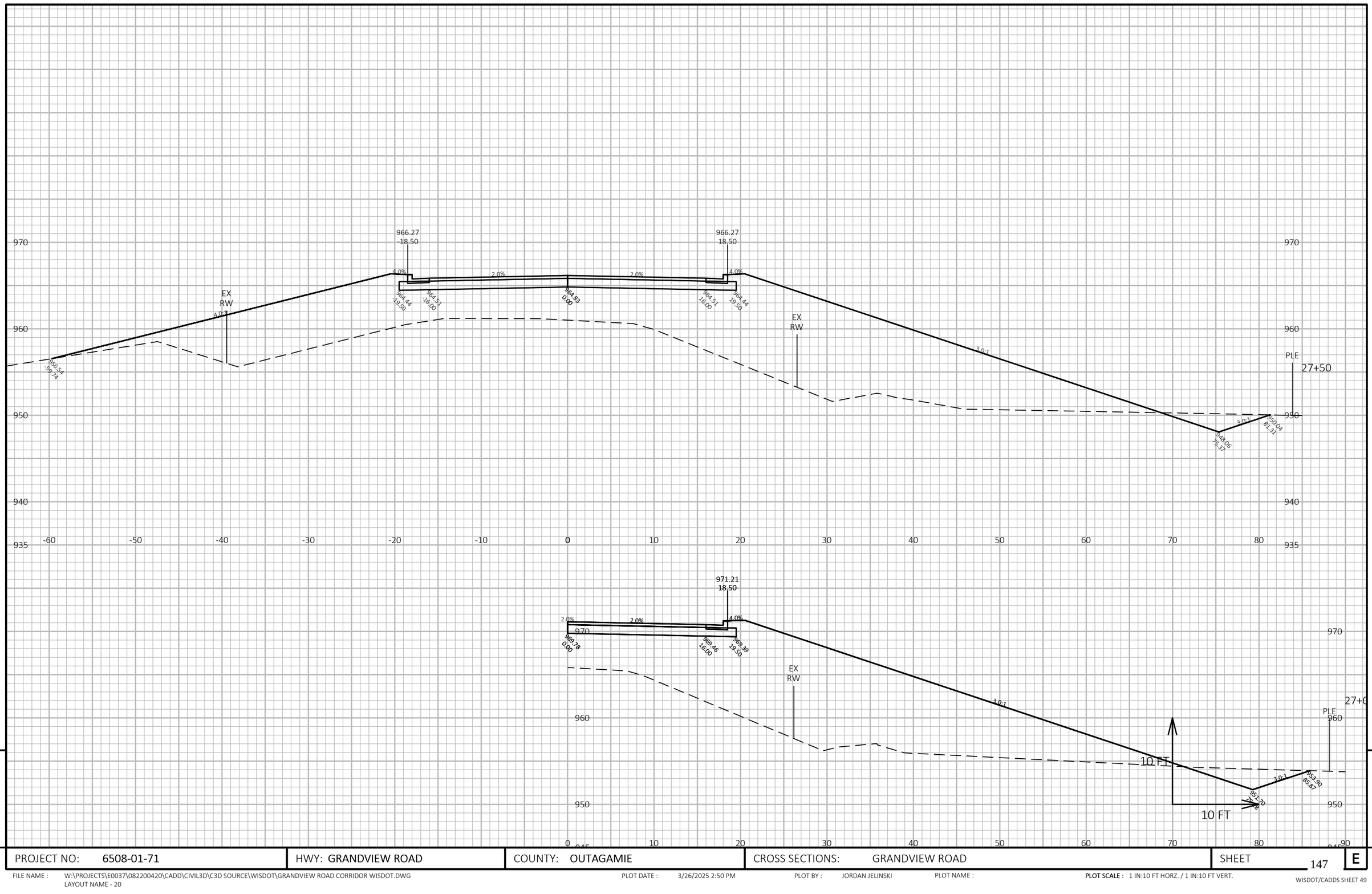
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 146	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 19

PLOT DATE : 3/26/2025 2:49 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 147	E

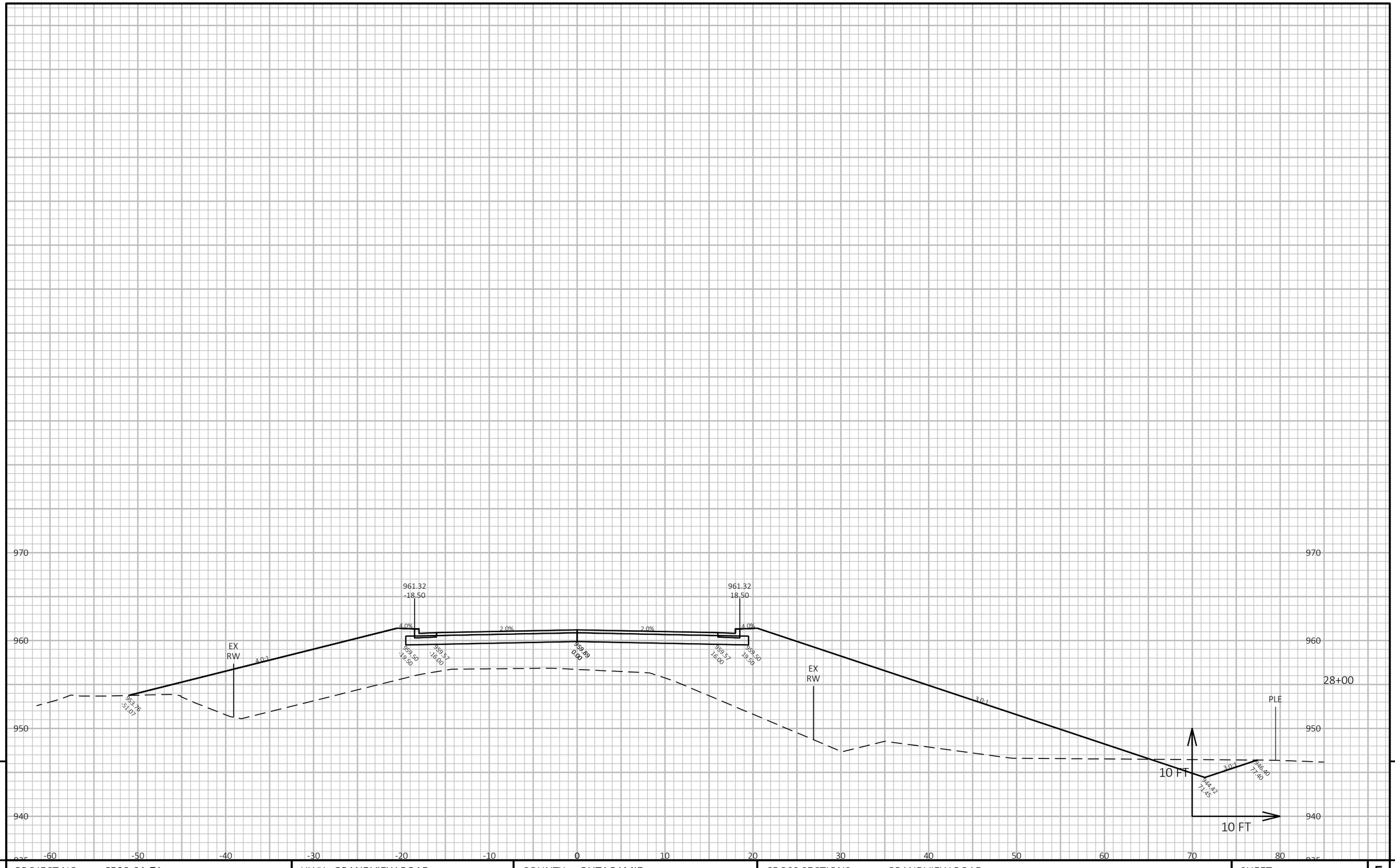
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LAYOUT NAME - 20

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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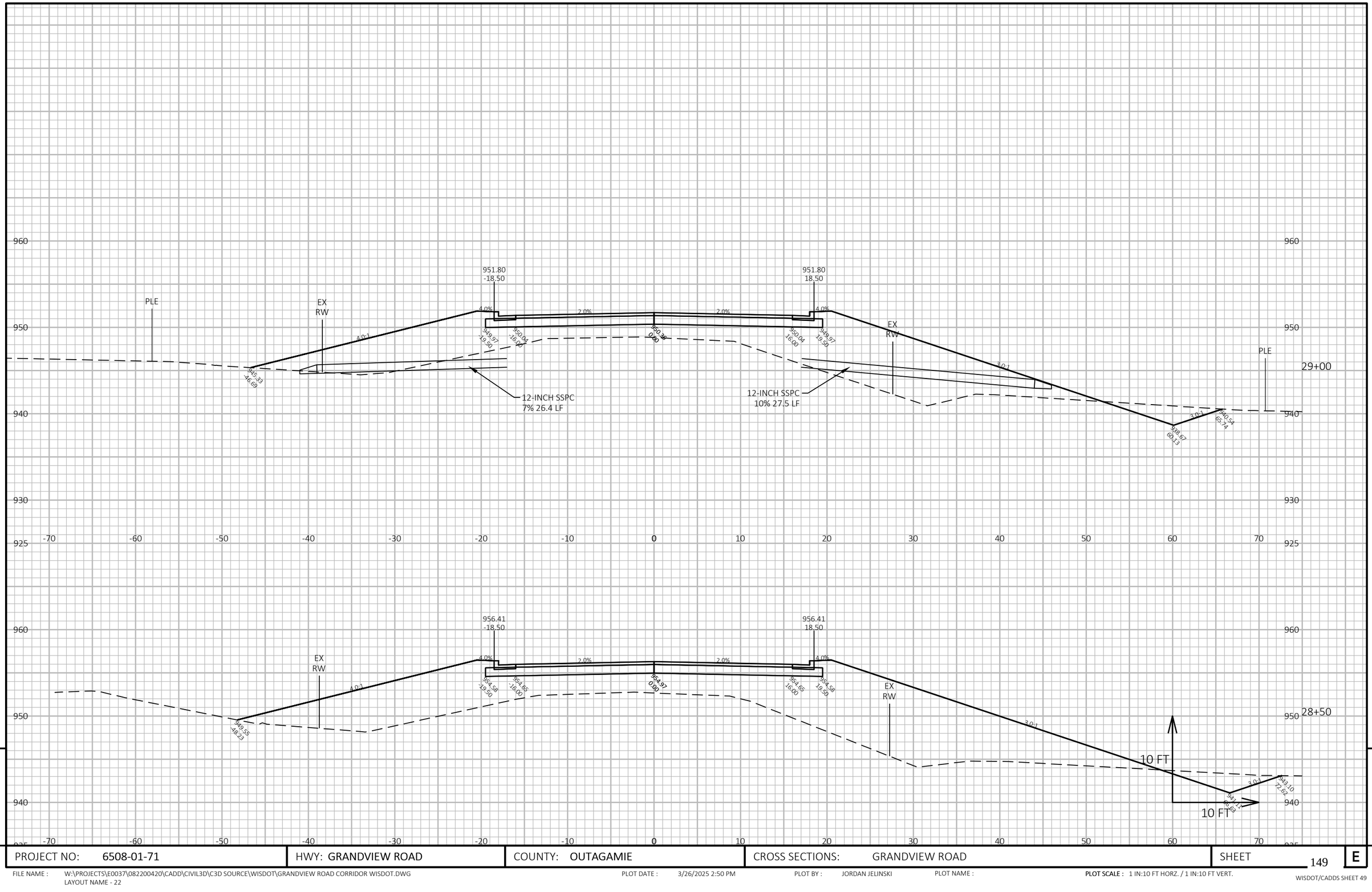
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 148	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 21

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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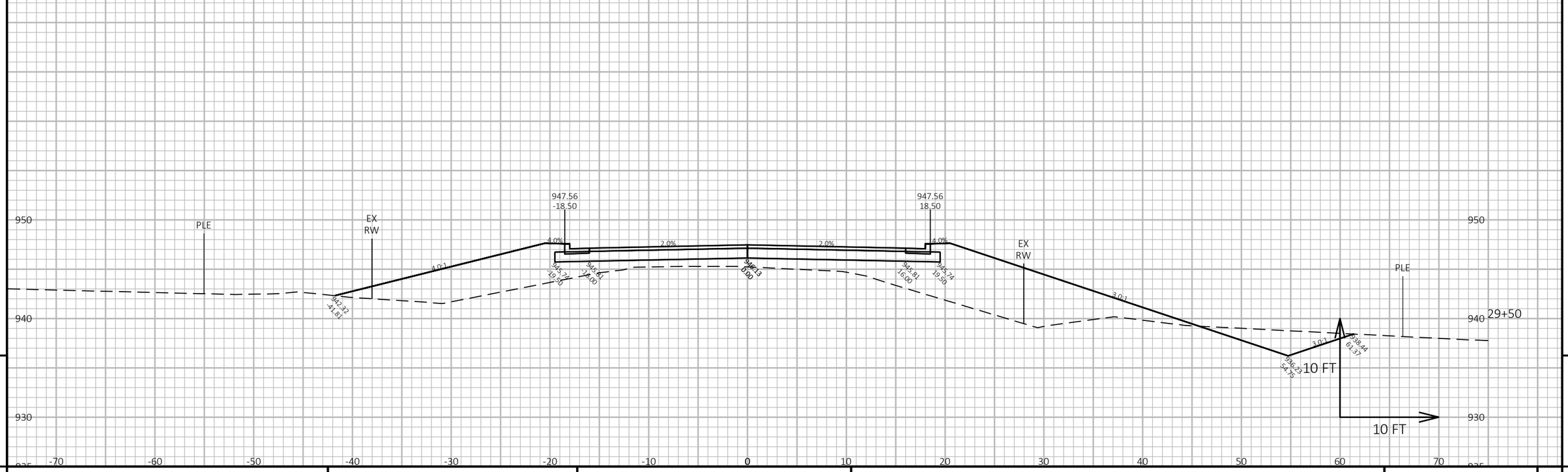
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 149 E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 22

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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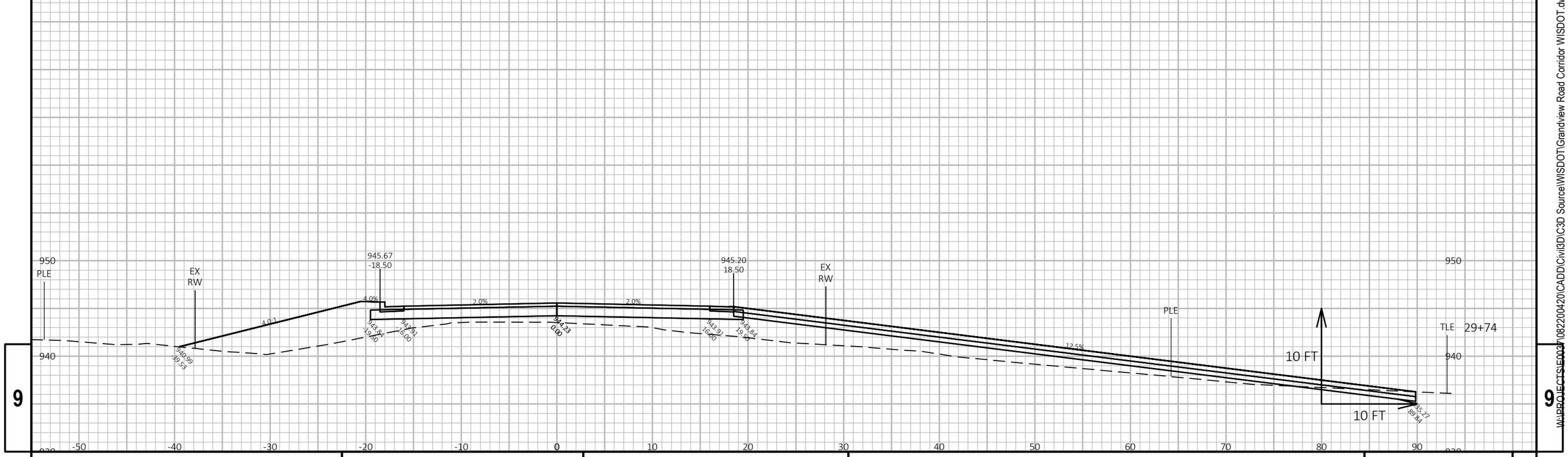
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 150	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 23

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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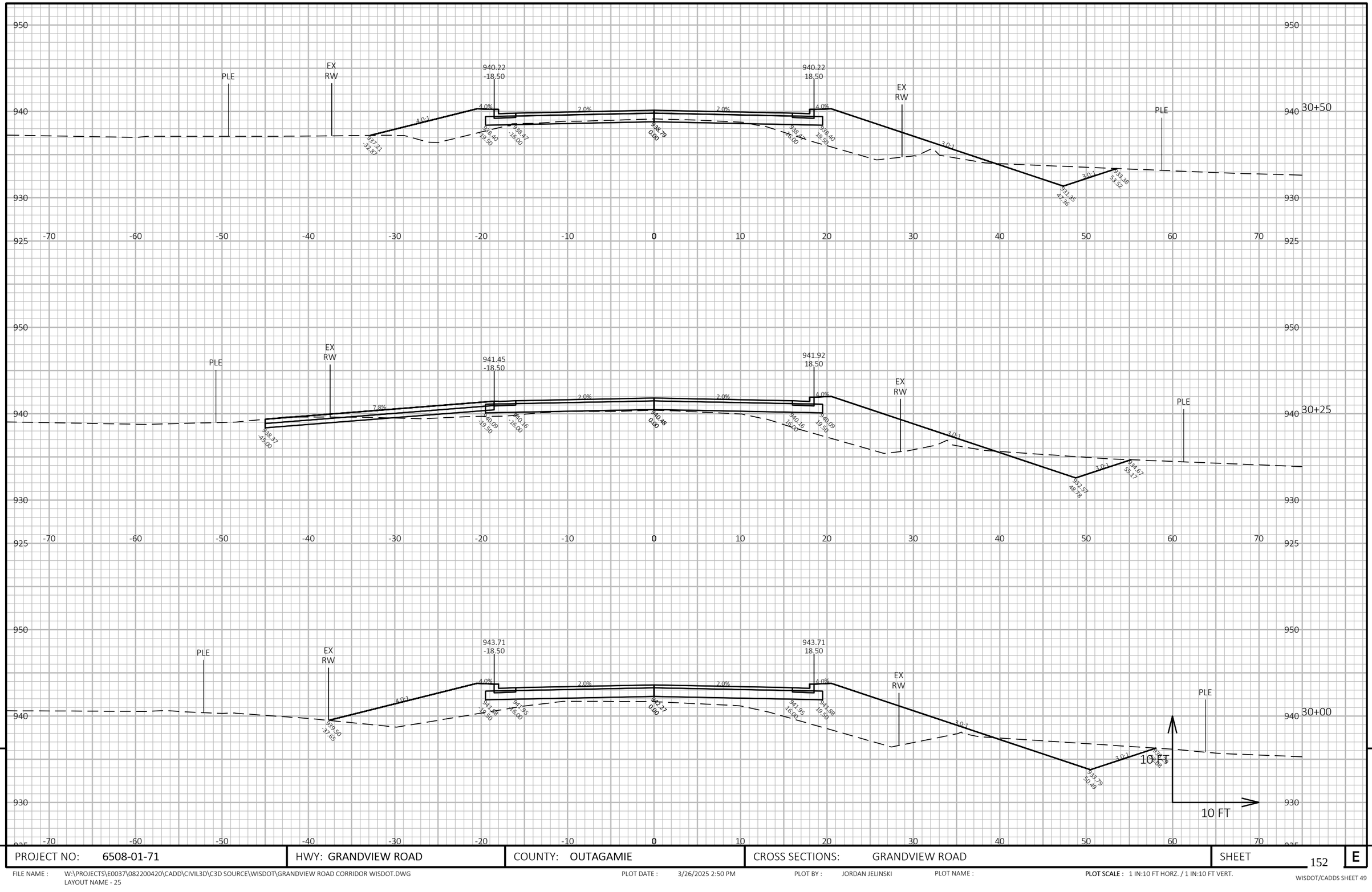
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PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 151	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 24

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 152	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 25

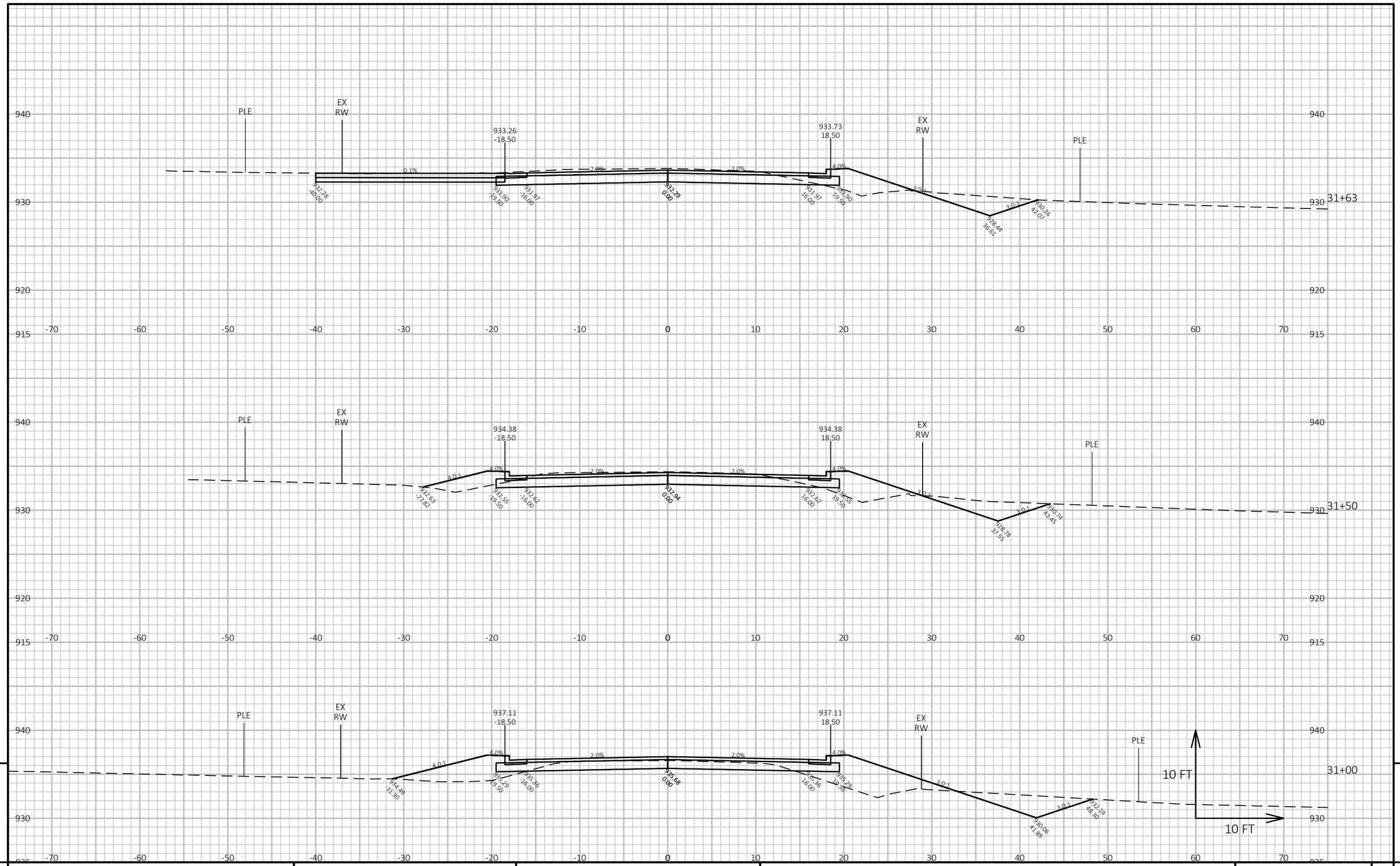
PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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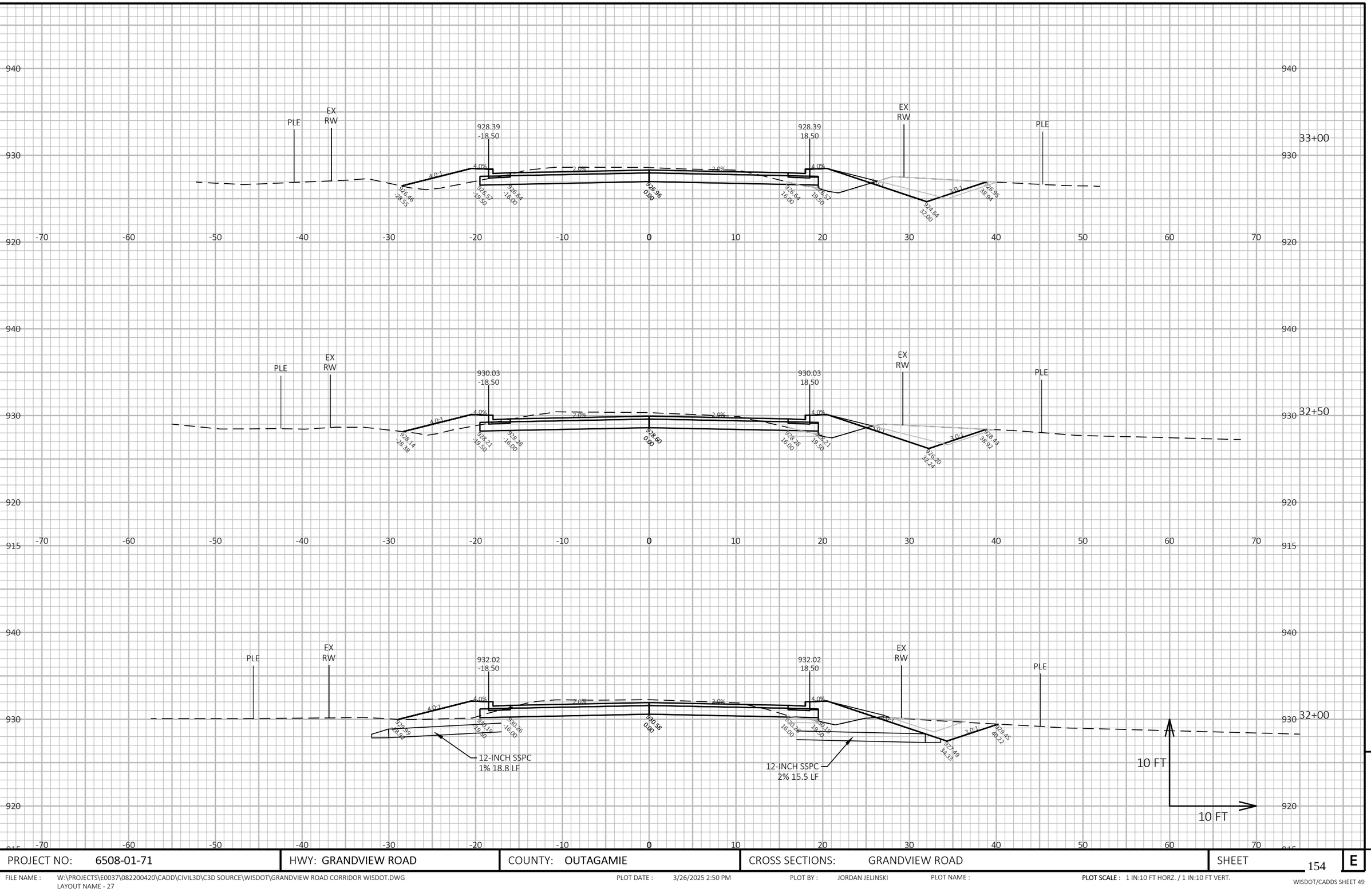
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FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 26

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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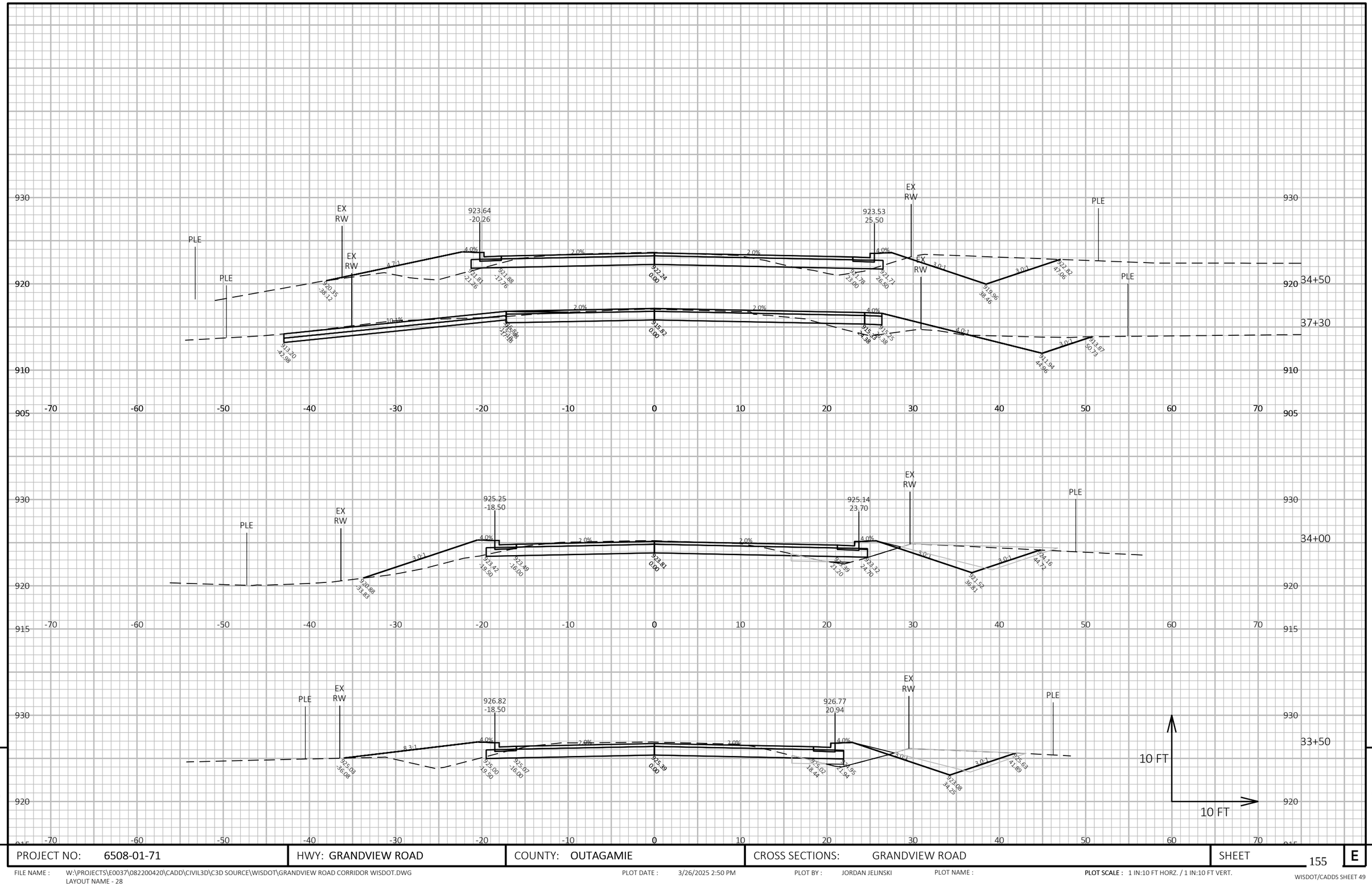
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 154	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 27

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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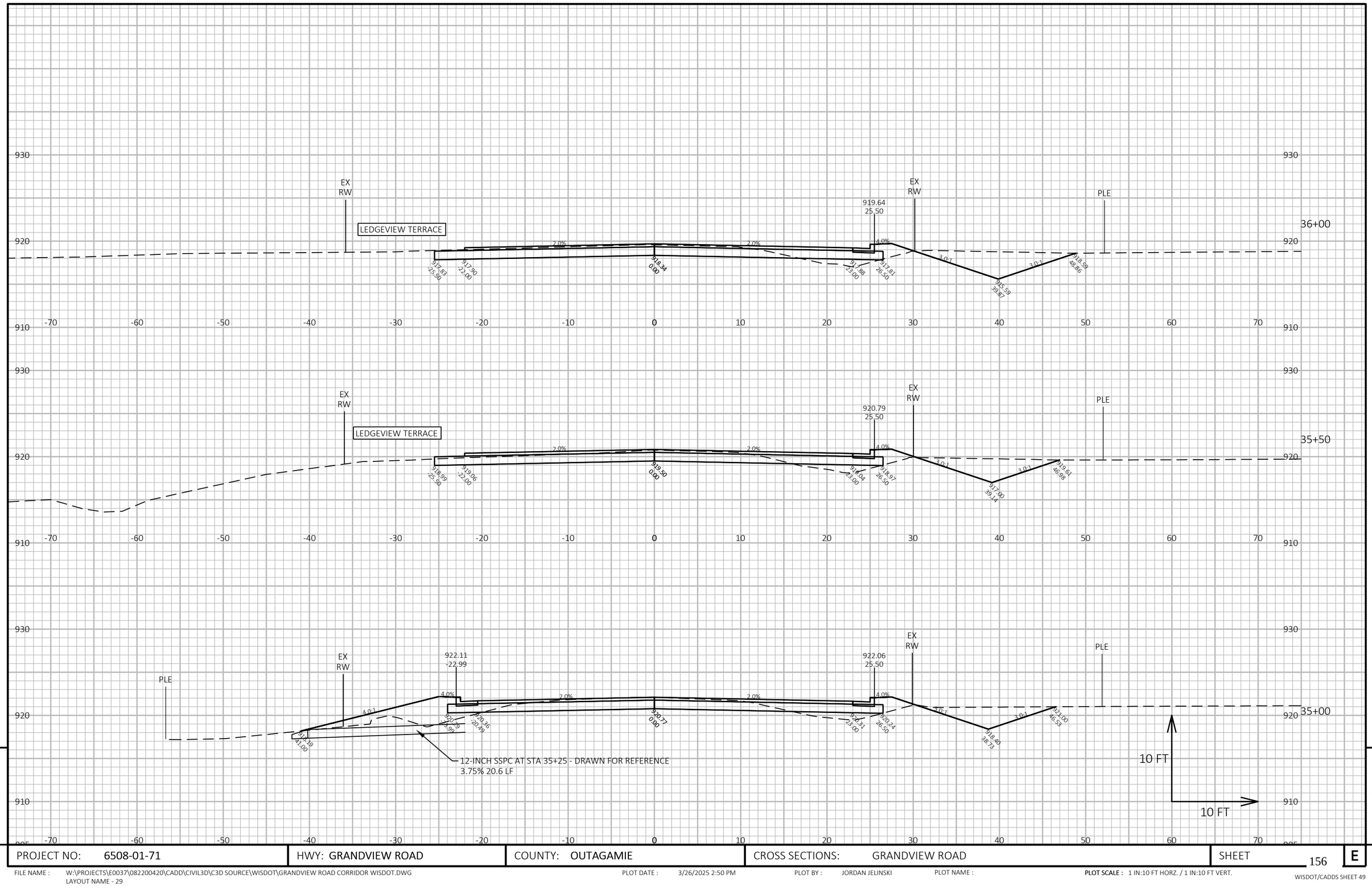
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FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 28

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:50:25 PM, JJelinski, 1:1



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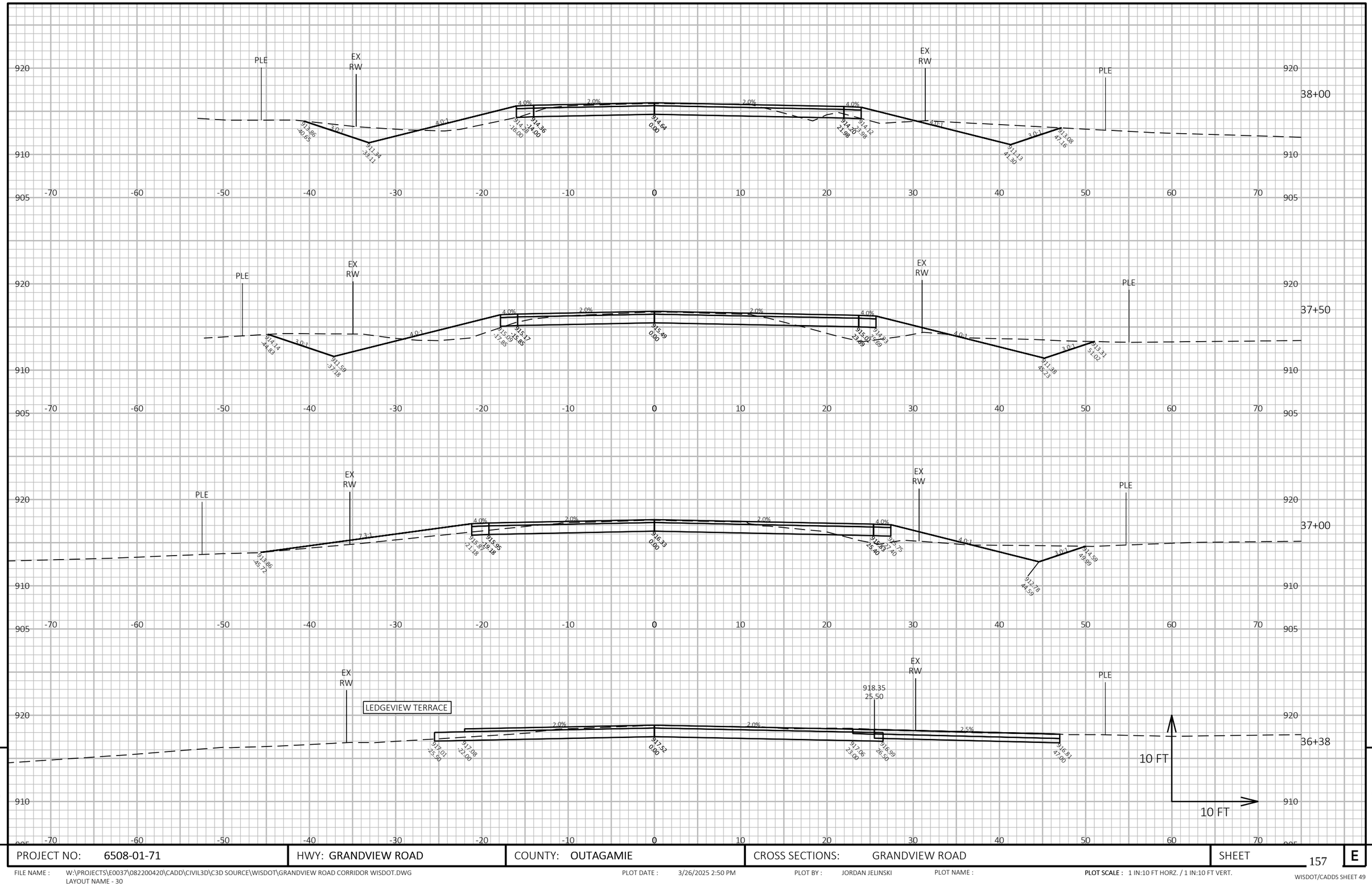
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LAYOUT NAME - 29

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:50:28 PM, JJelinski, 1:1



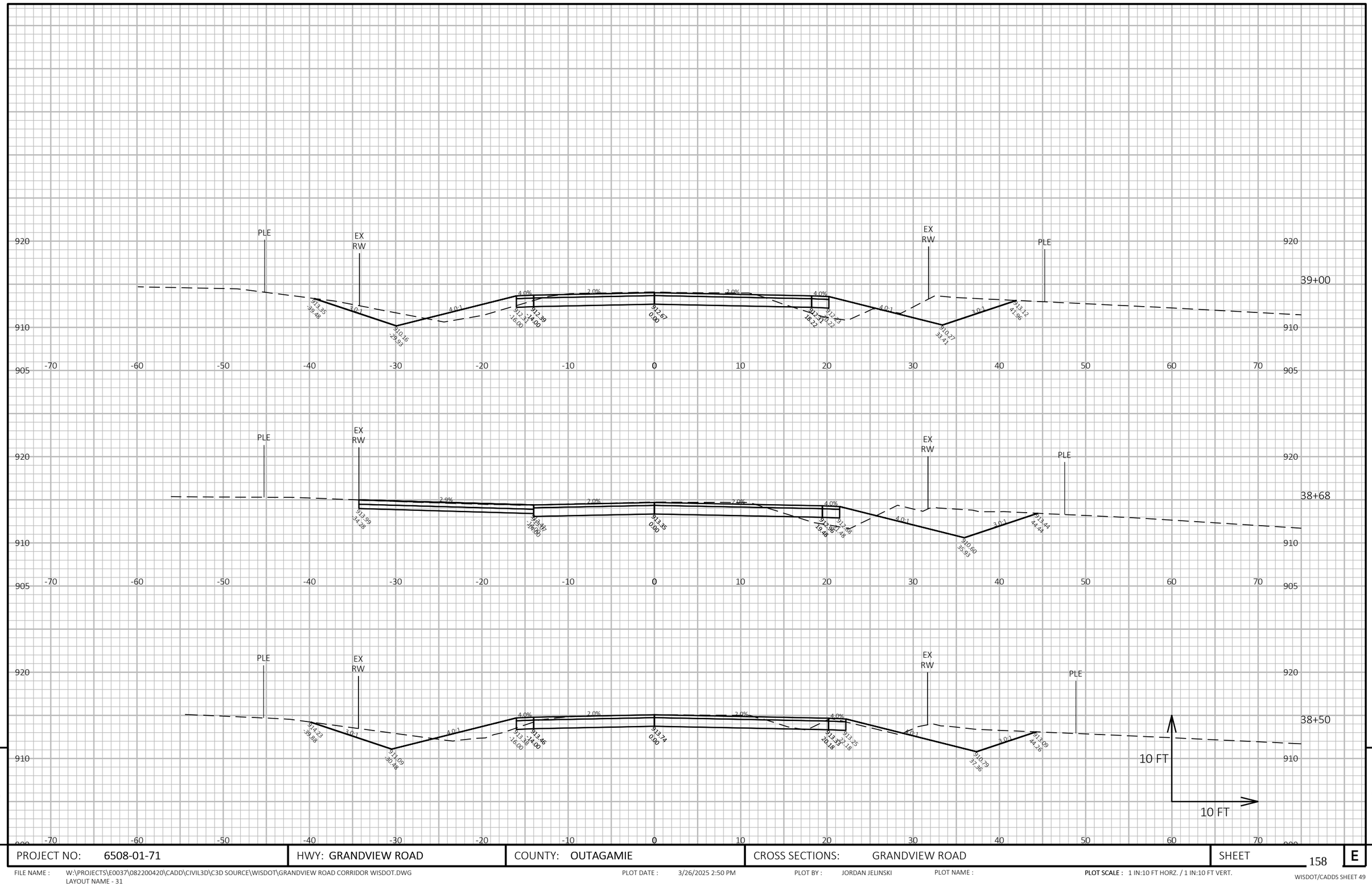
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FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 30

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 158	E

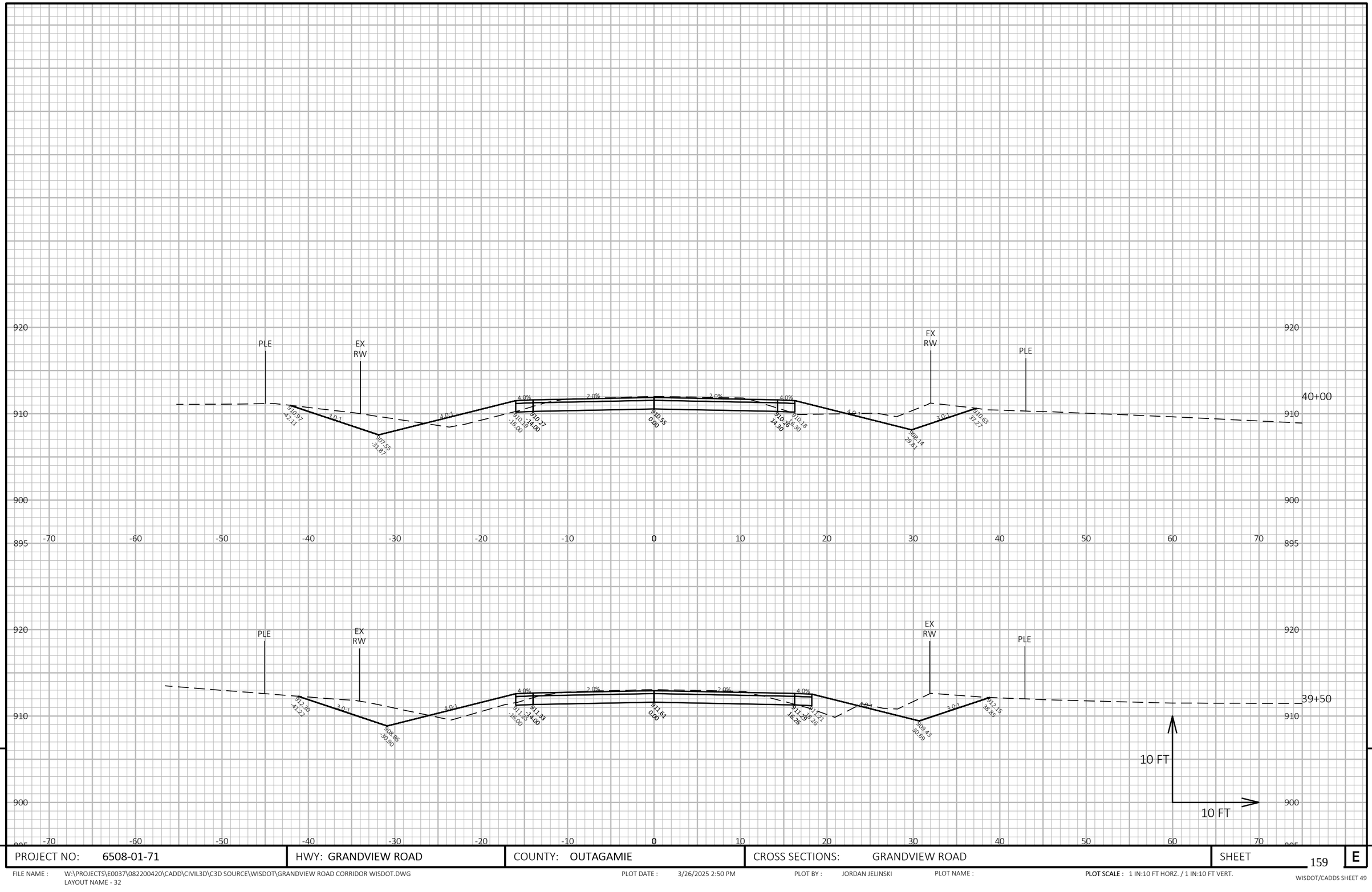
FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 31

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME :

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

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:50:35 PM, JJelinski, 1:1



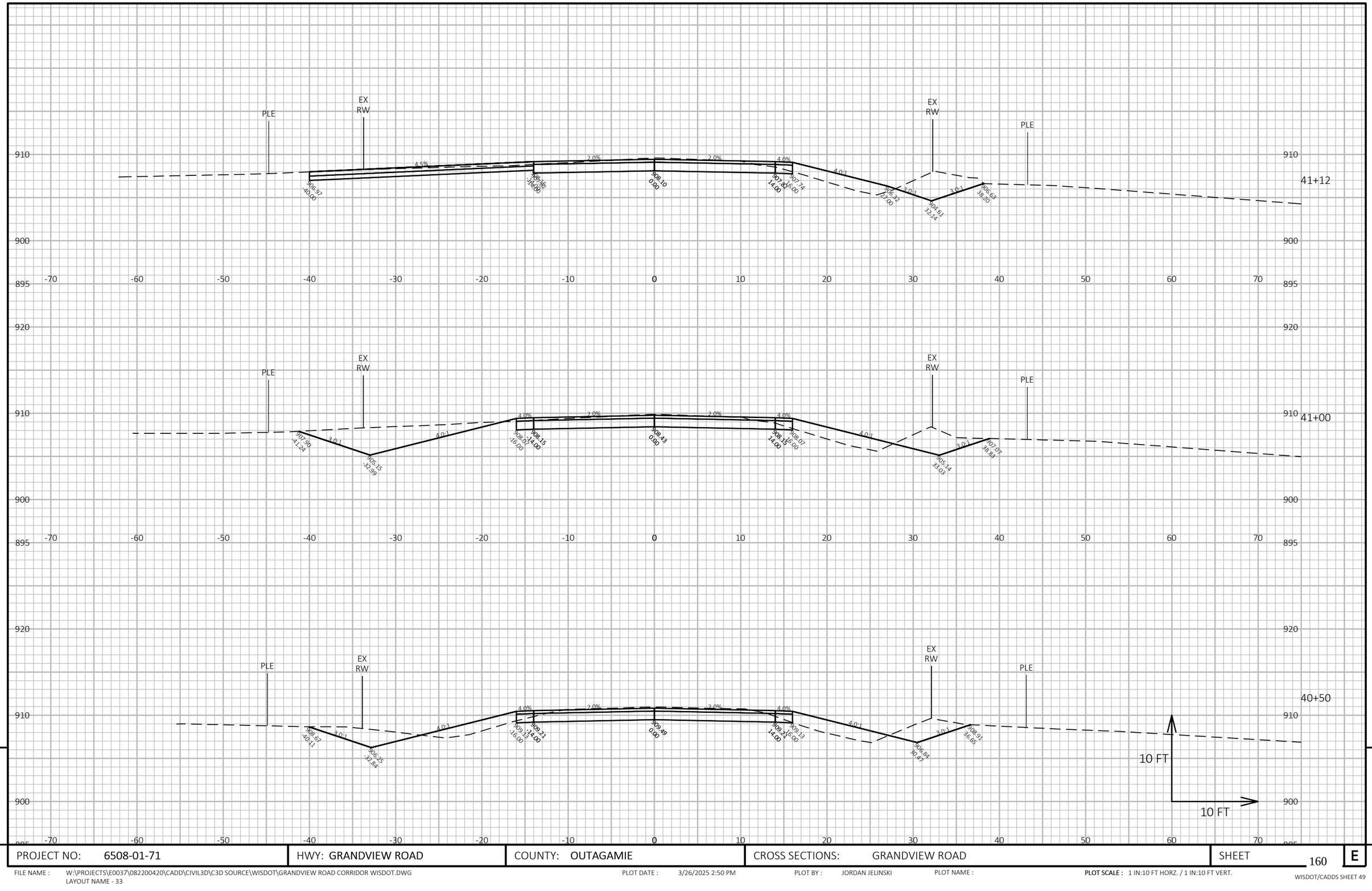
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 159	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 32

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:50:38 PM, JJelinski, 1:1



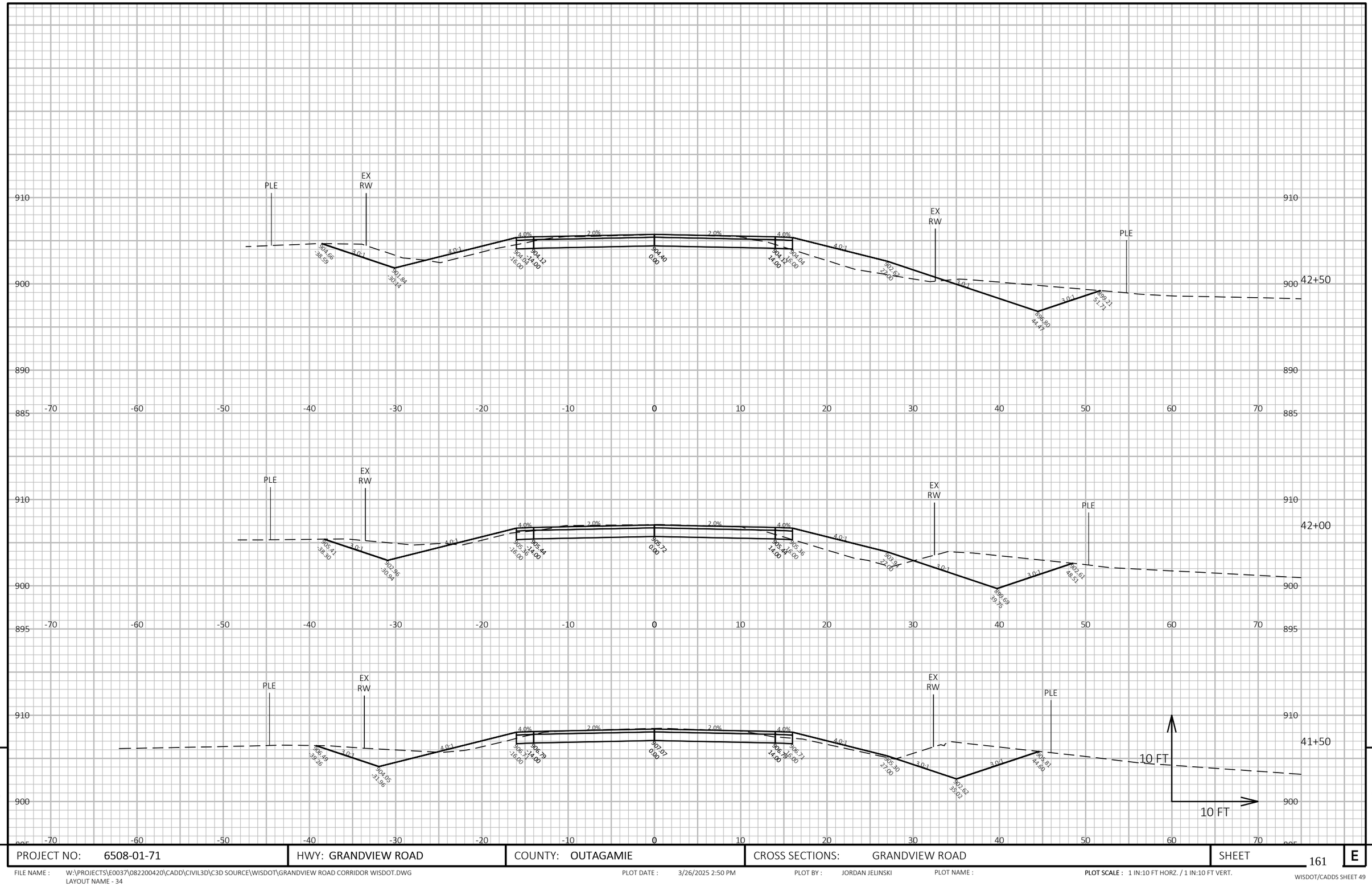
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 160	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 33

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:50:41 PM, JJelinski, 1:1



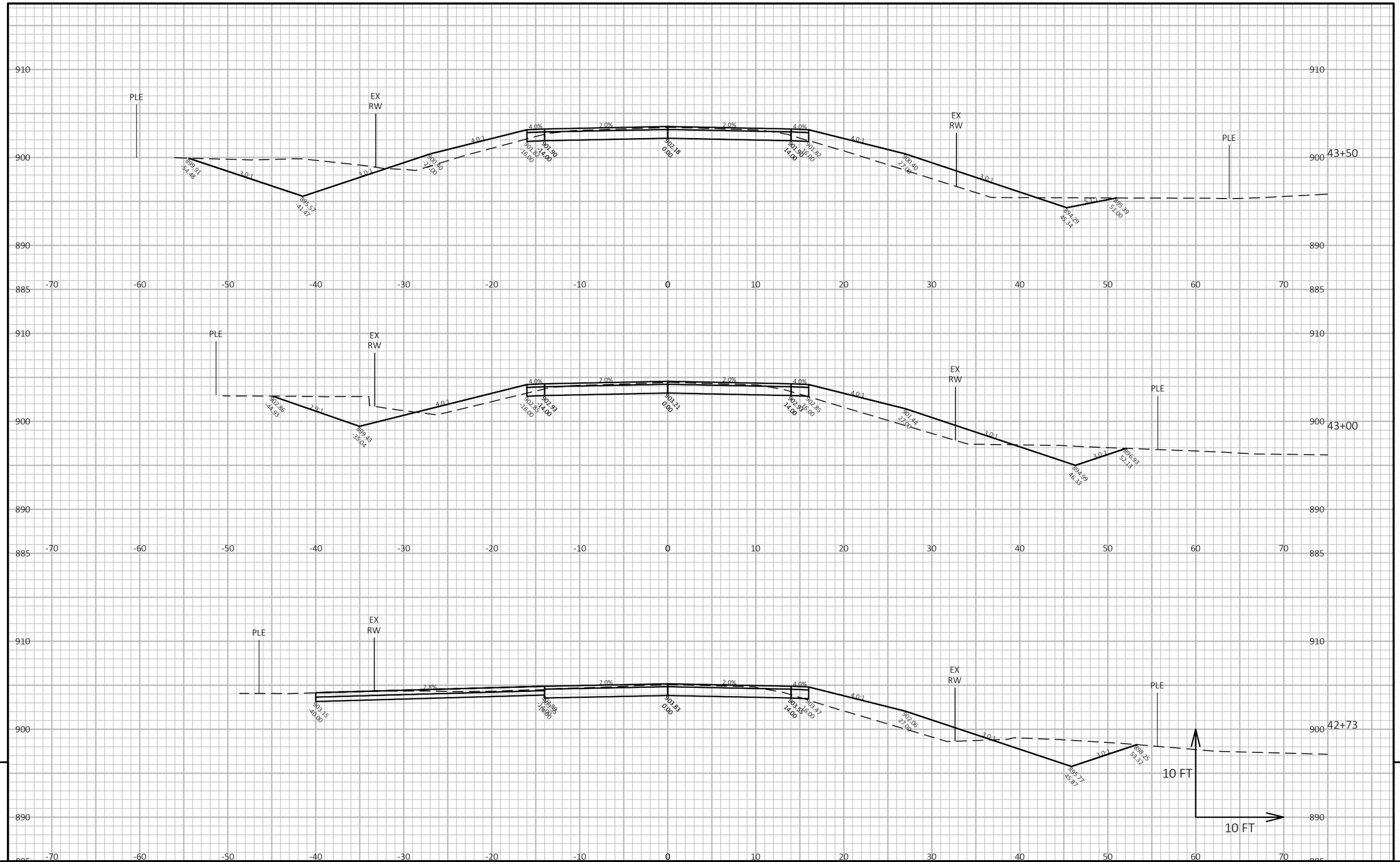
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 161	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 34

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:50:44 PM, JJelinski, 1:1



9

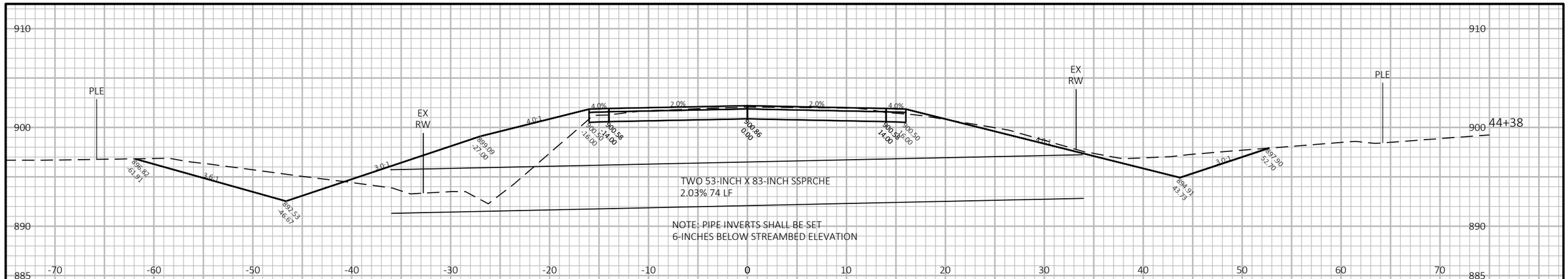
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 162	E

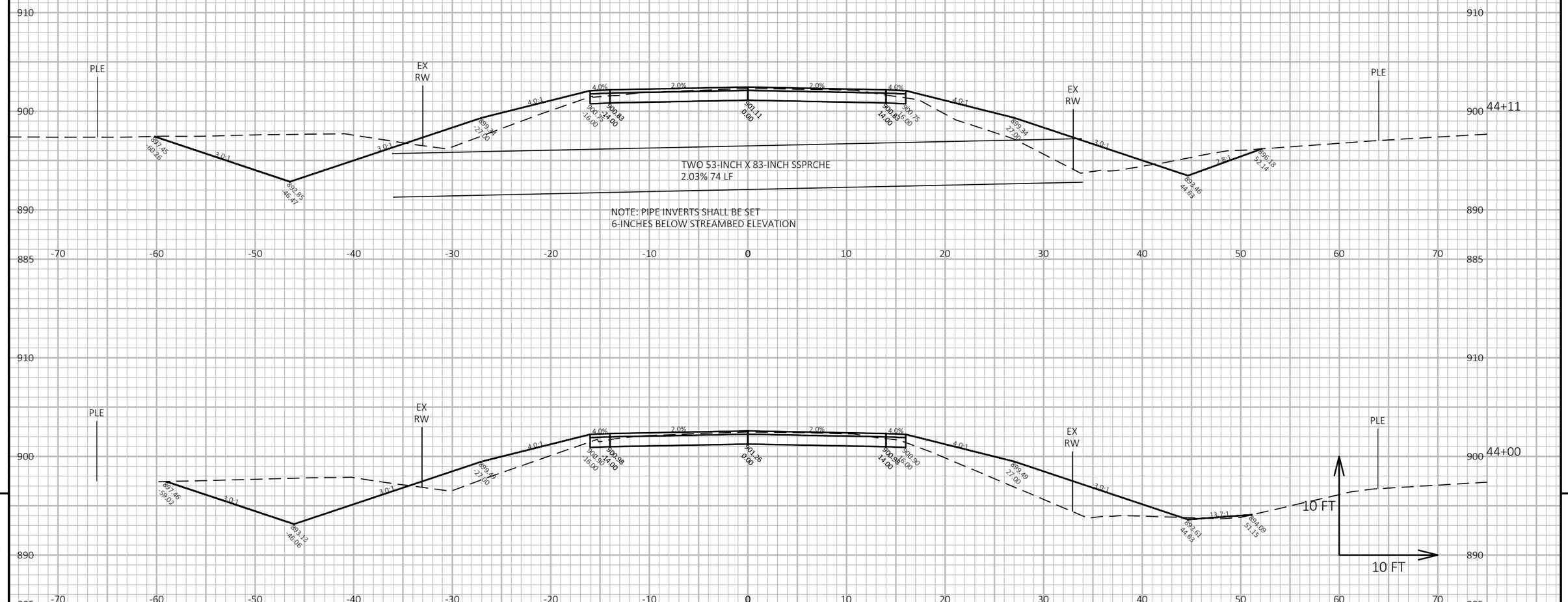
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LAYOUT NAME - 35

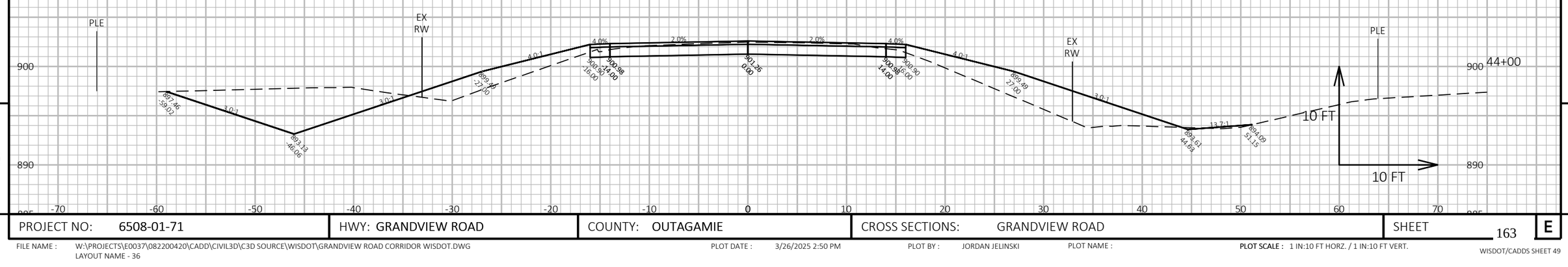
PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:50:47 PM, JJelinski, 1:1







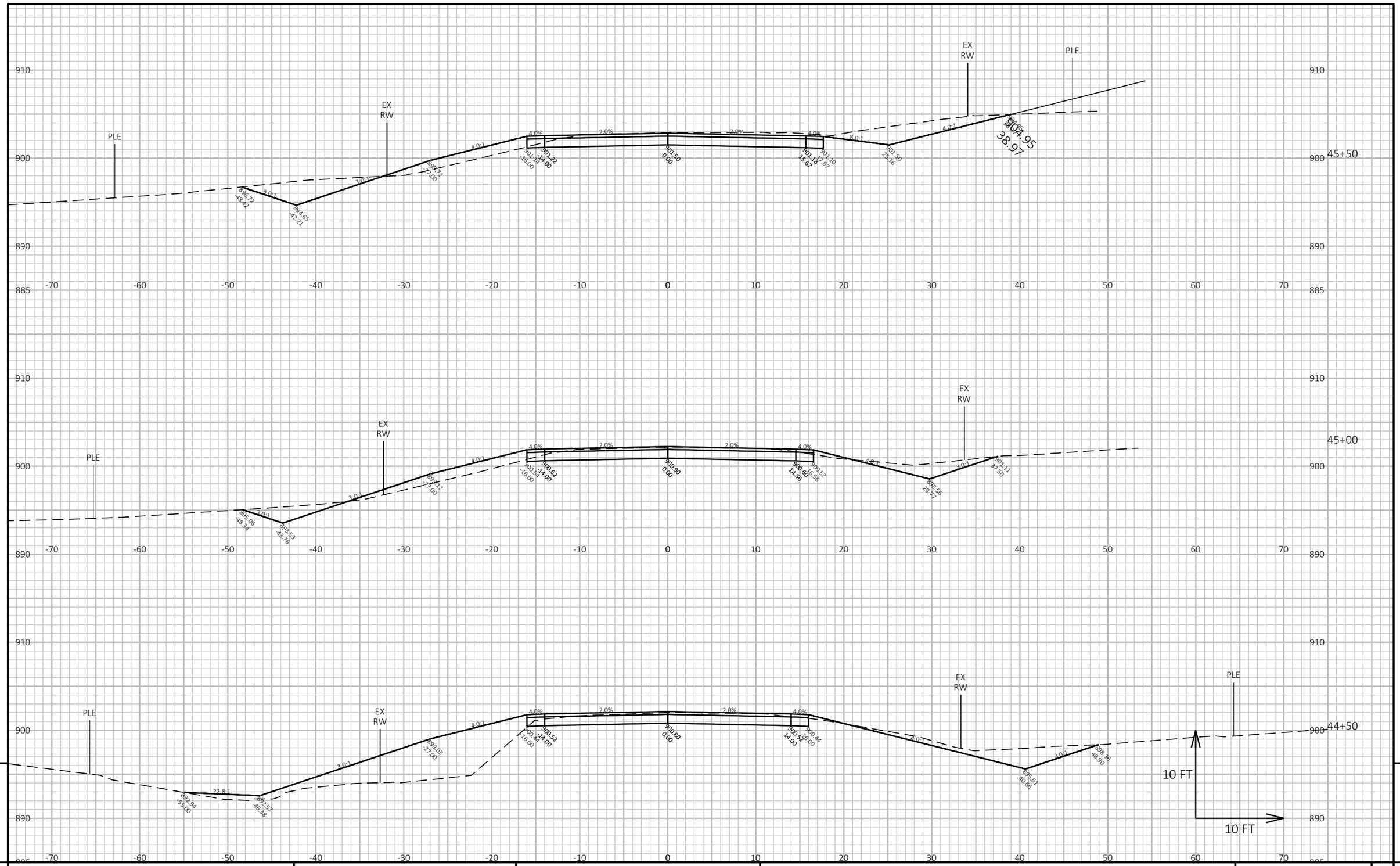
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 163	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 36

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D SourceWISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:50:50 PM, JJelinski, 1:1



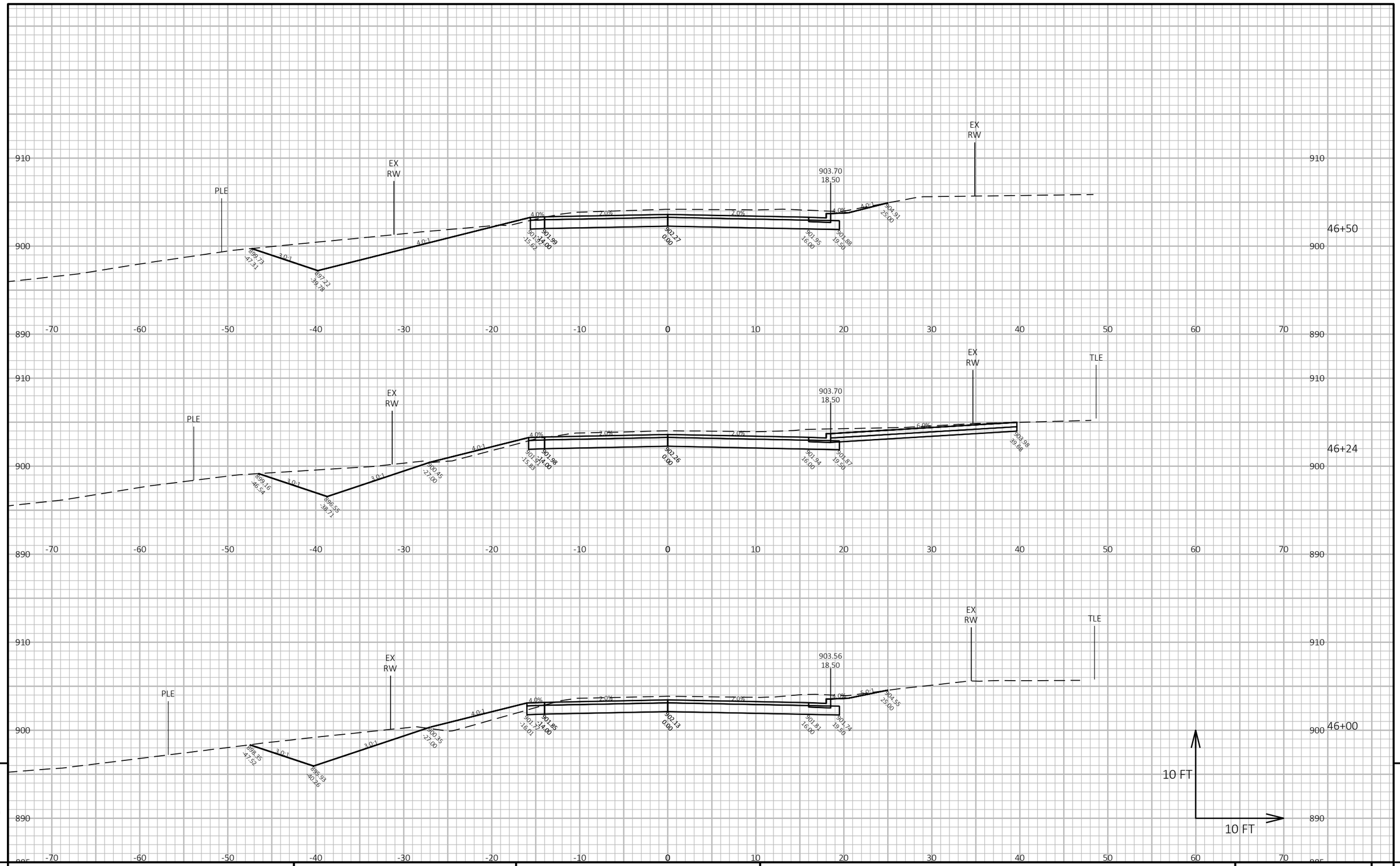
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 164	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 37

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D SourceWISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:50:53 PM, JJelinski, 1:1



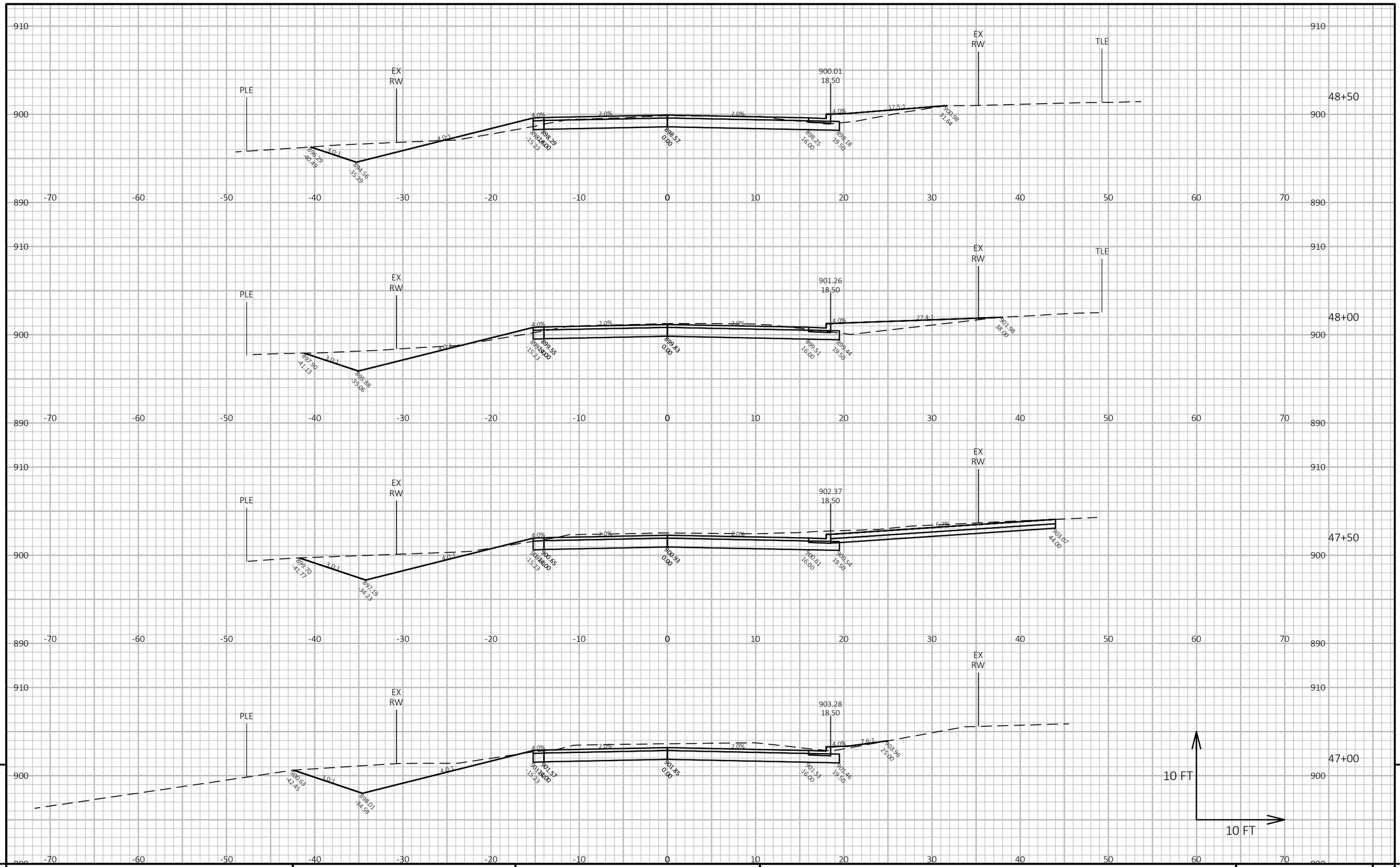
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 165	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 38

PLOT DATE : 3/26/2025 2:50 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:50:55 PM, JJelinski, 1:1



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PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 166	E

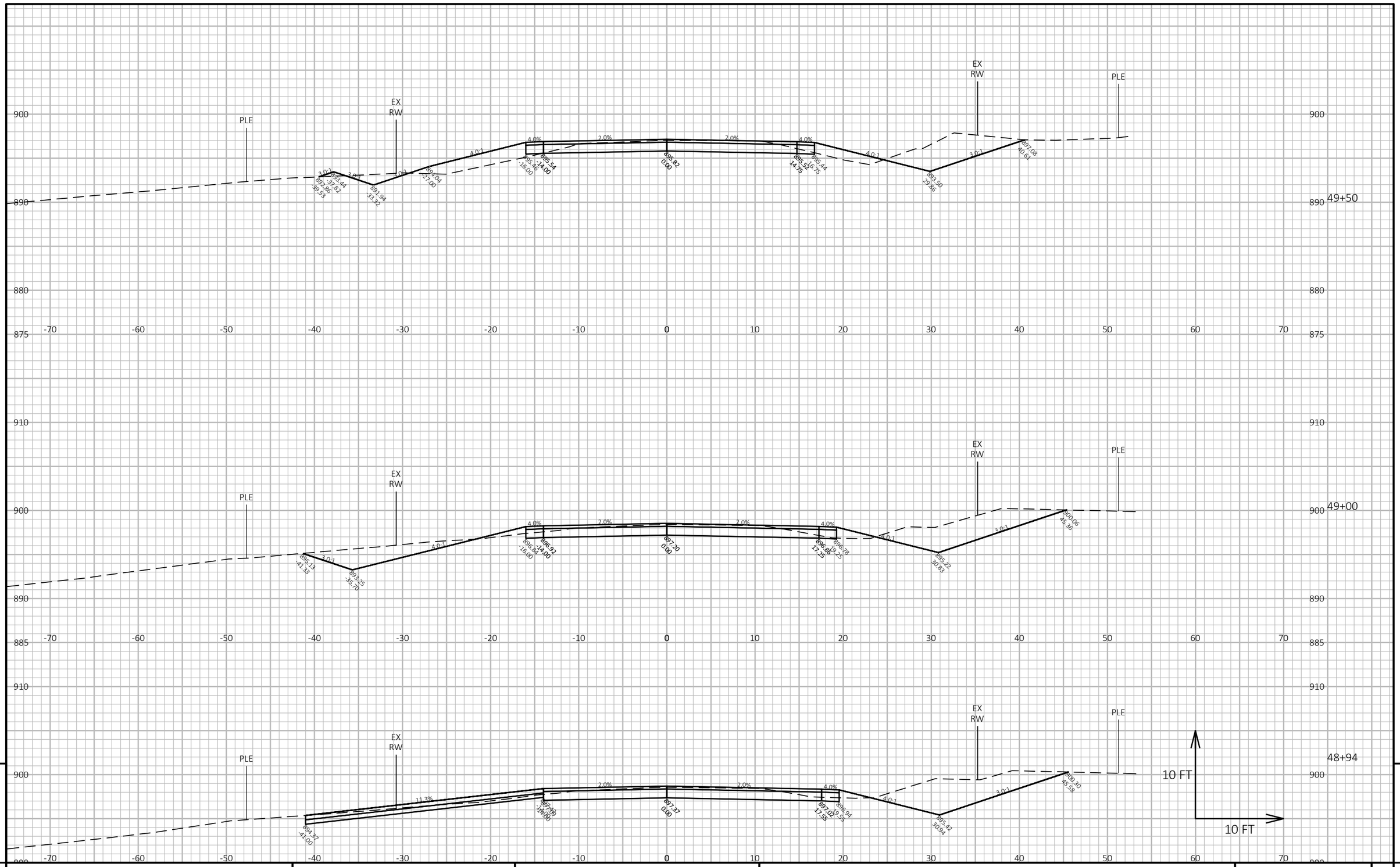
FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 39

PLOT DATE : 3/26/2025 2:51 PM PLOT BY : JORDAN JELINSKI PLOT NAME :

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

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:50:58 PM, JJelinski, 1:1



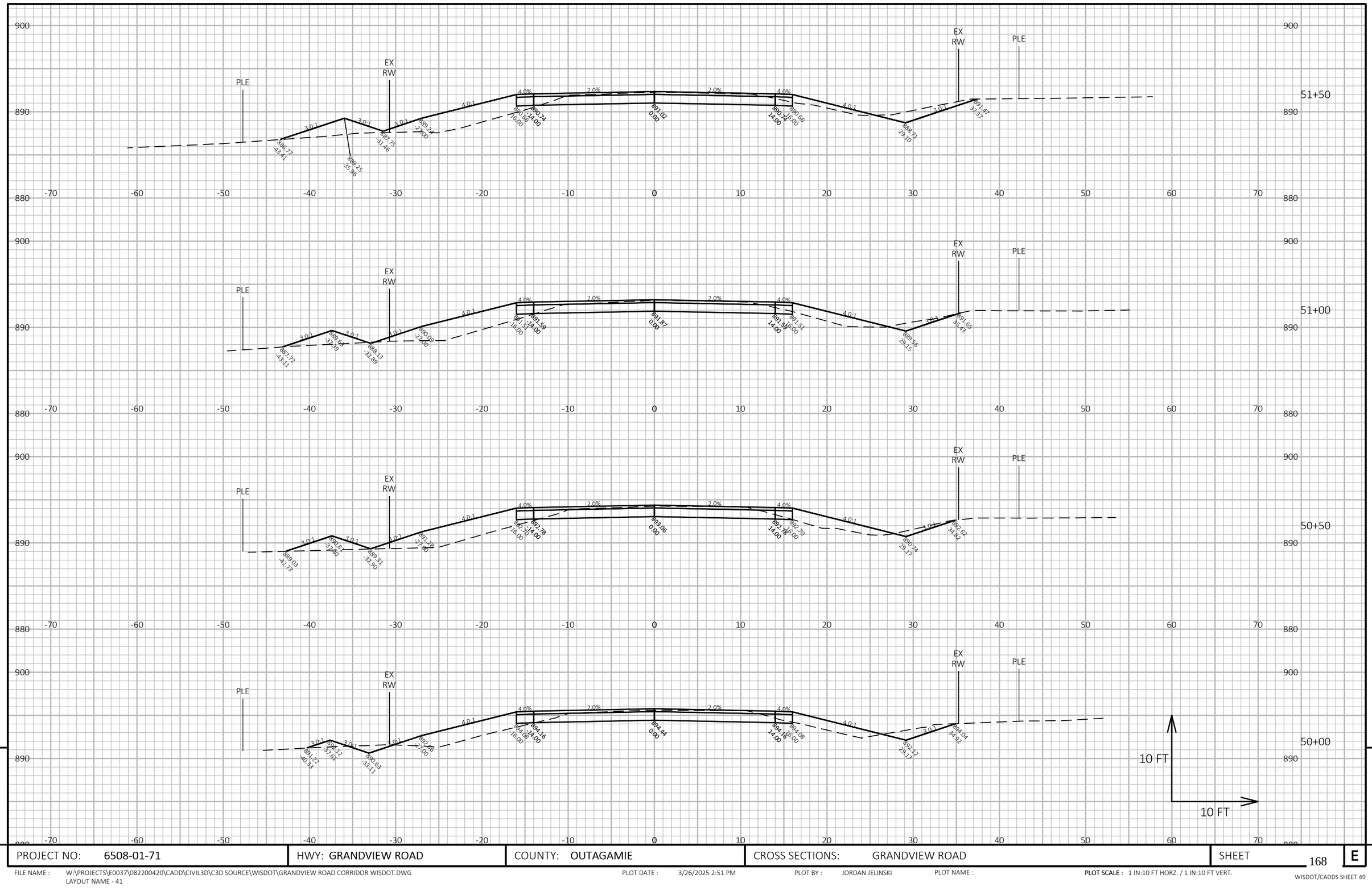
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 167	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 40

PLOT DATE : 3/26/2025 2:51 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:51:01 PM, JJelinski, 1:1



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 168	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 41

PLOT DATE : 3/26/2025 2:51 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:51:04 PM, JJelinski, 1:1

52+50
EX RW
PLE
39.9991
887.37
21.11
887.88
18.89
CAUTION: SHALLOW CULVERT PIPE
LESS THAN 2-FEET OF SUBGRADE COVER. CONTRACTOR TO TAKE PRECAUTIONARY MEASURES DURING CONSTRUCTION TO MINIMIZE EQUIPMENT LOADING IMPACTS ON THE CULVERT.
19-INCH X 30-INCH RCHE
0.97% 48 LF
52+00
10 FT
10 FT

9

9

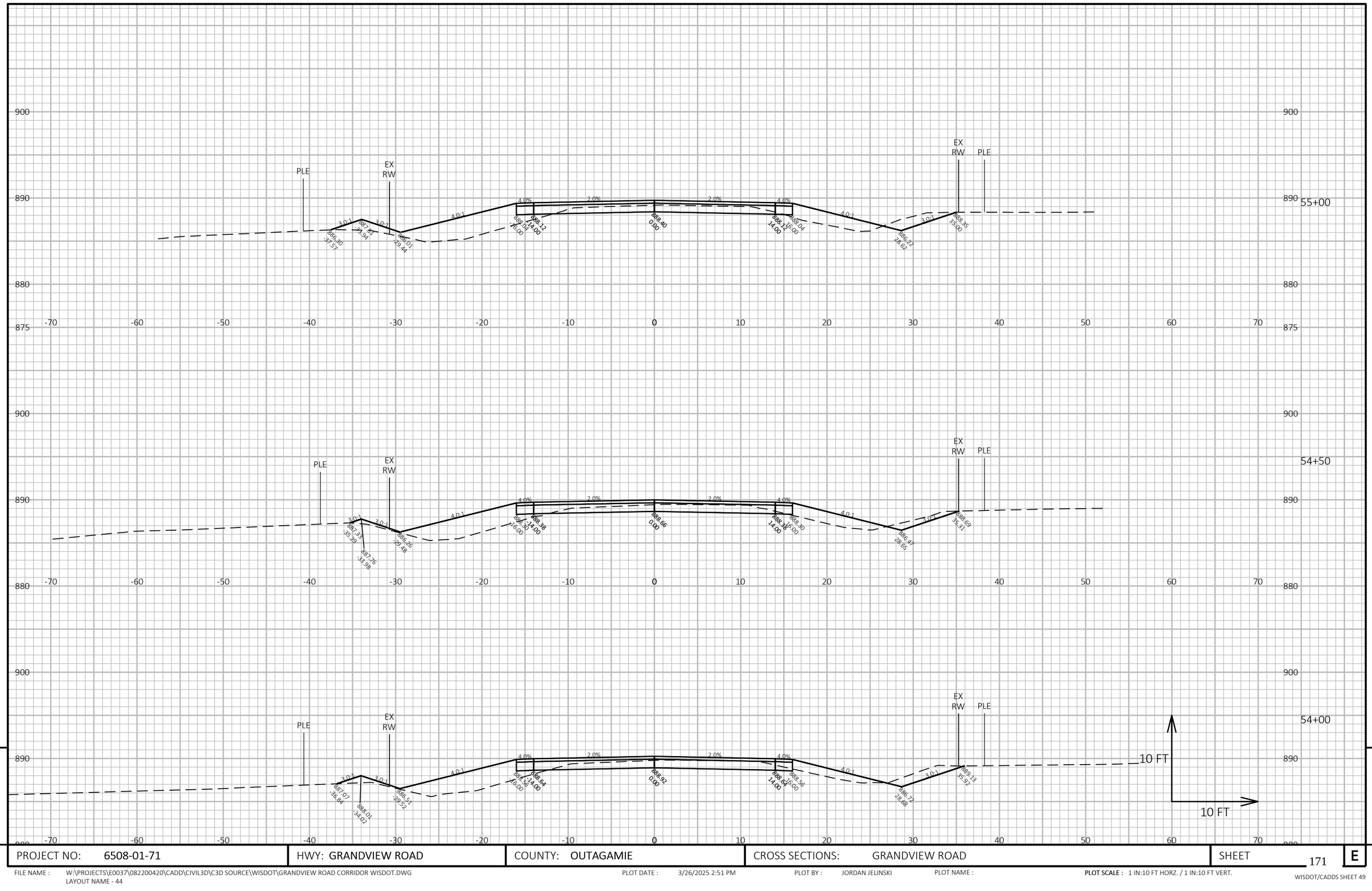
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 170	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 43

PLOT DATE : 3/26/2025 2:51 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:51:09 PM, JJelinski, 1:1



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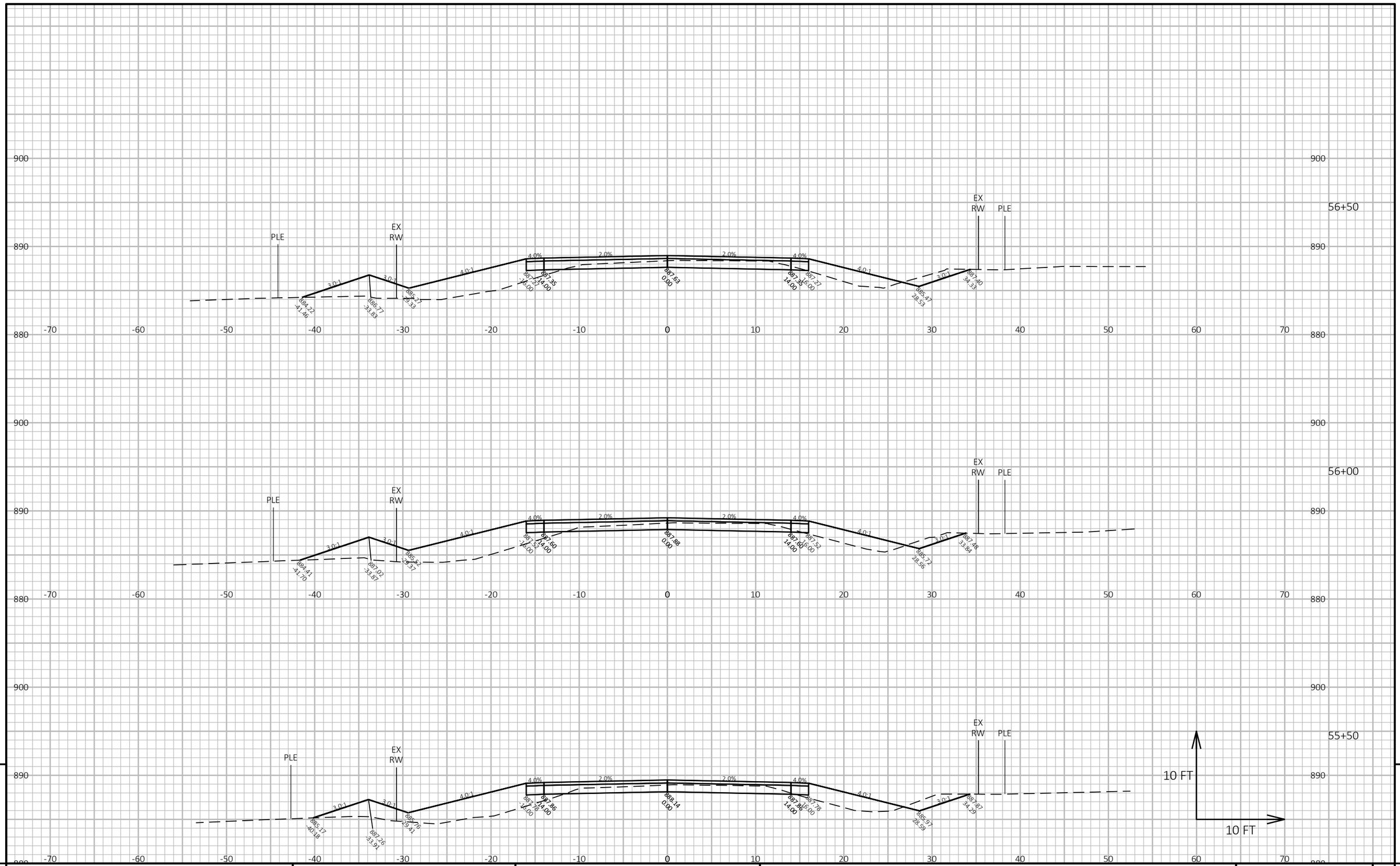
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 171	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 44

PLOT DATE : 3/26/2025 2:51 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:51:12 PM, JJelinski, 1:1



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 172	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 45

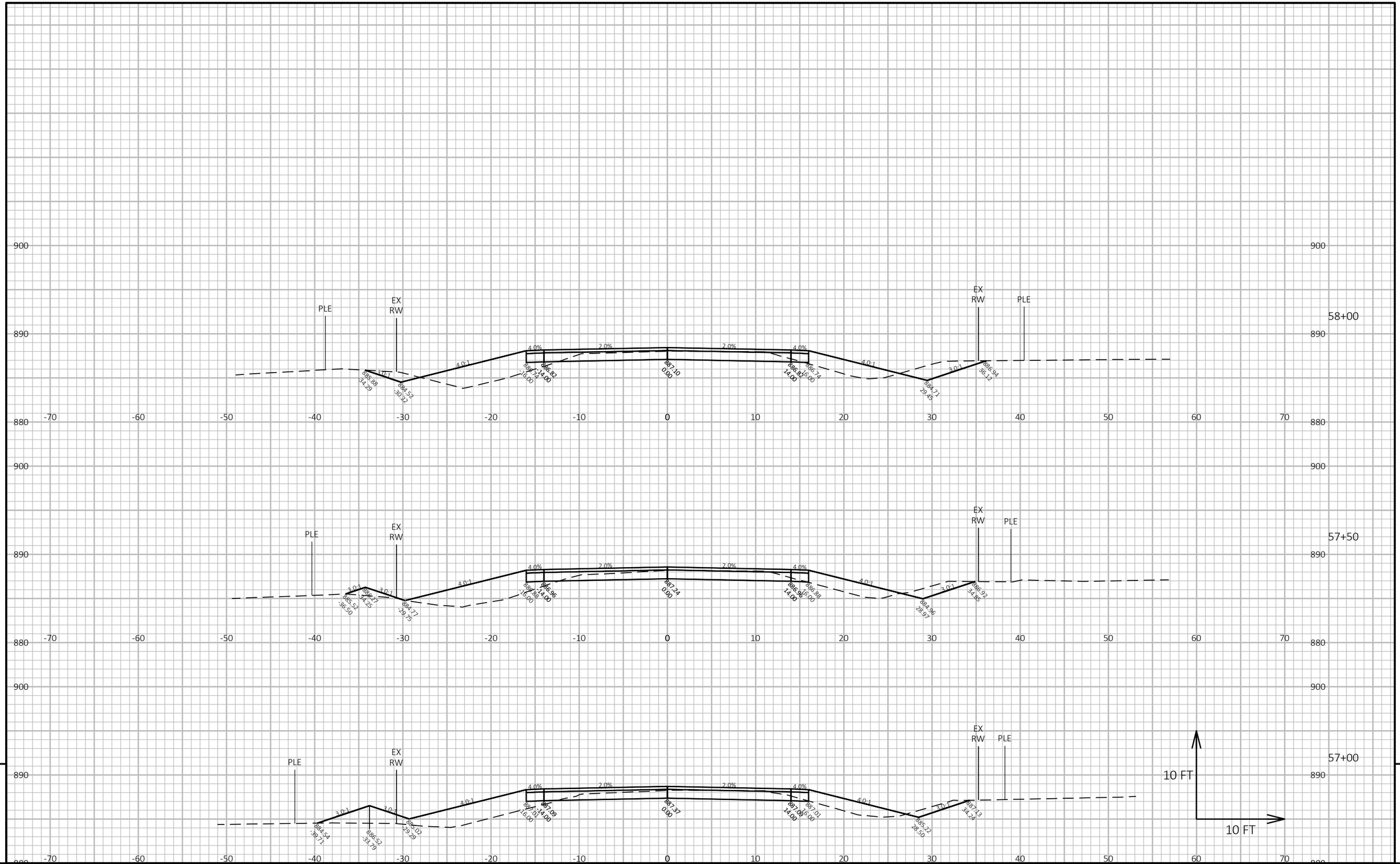
PLOT DATE : 3/26/2025 2:51 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:51:15 PM, JJelinski, 1:1

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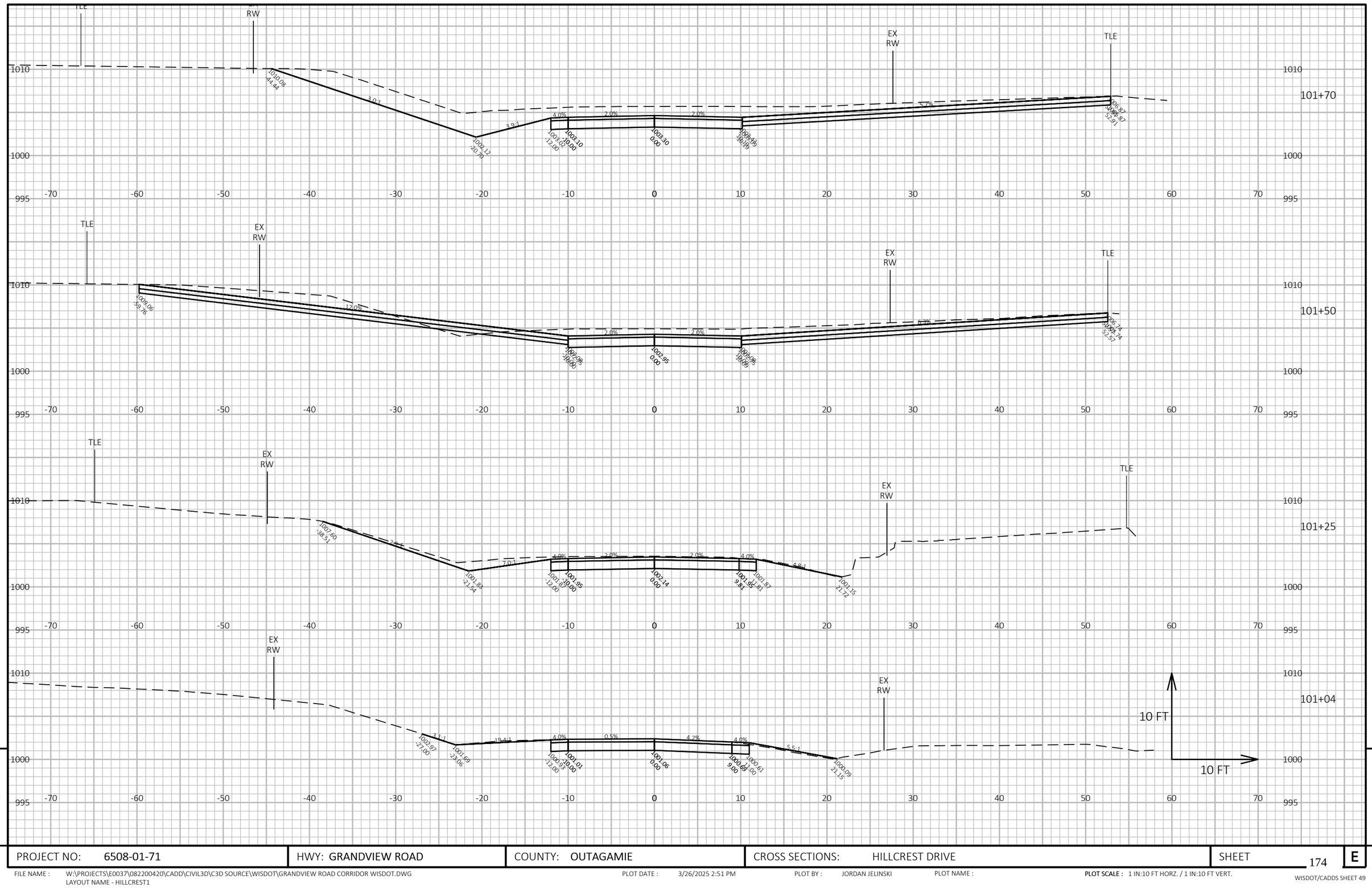
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: GRANDVIEW ROAD	SHEET 173	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 46

PLOT DATE : 3/26/2025 2:51 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:51:18 PM, JJelinski, 1:1



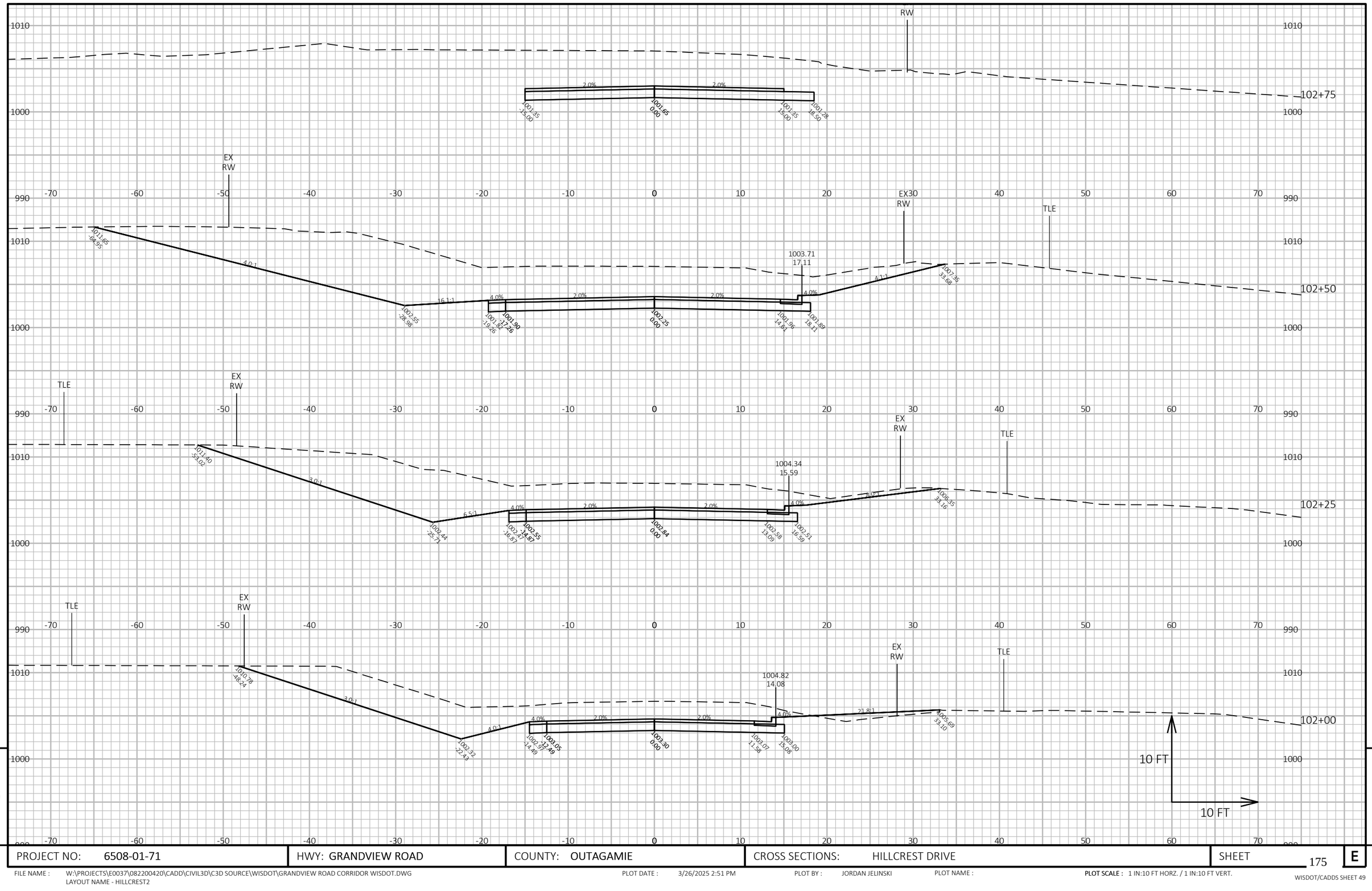
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: HILLCREST DRIVE	SHEET 174	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - HILLCREST1

PLOT DATE : 3/26/2025 2:51 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:51:20 PM, JJelinski, 1:1



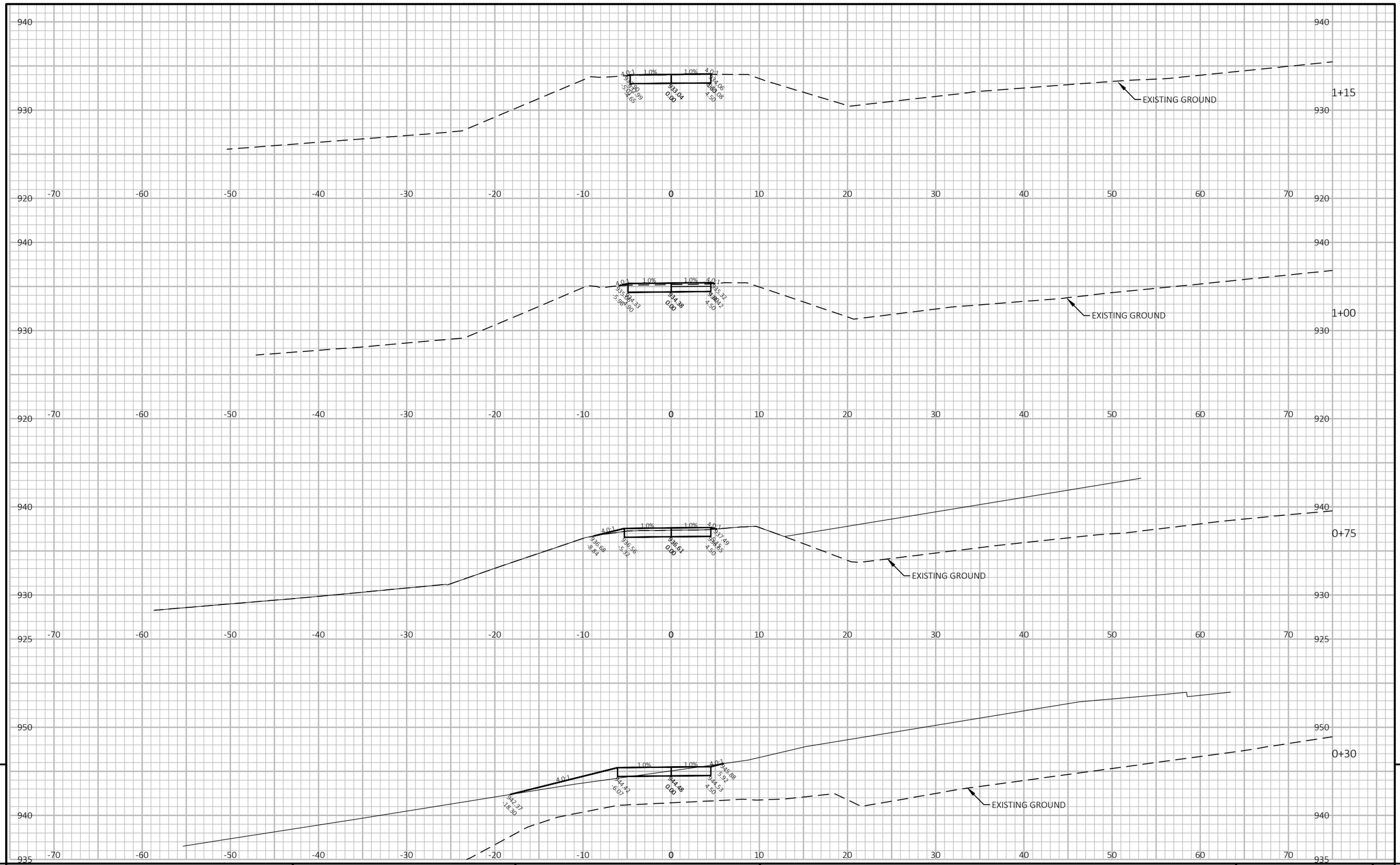
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: HILLCREST DRIVE	SHEET 175	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - HILLCREST2

PLOT DATE : 3/26/2025 2:51 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:51:23 PM, JJelinski, 1:1



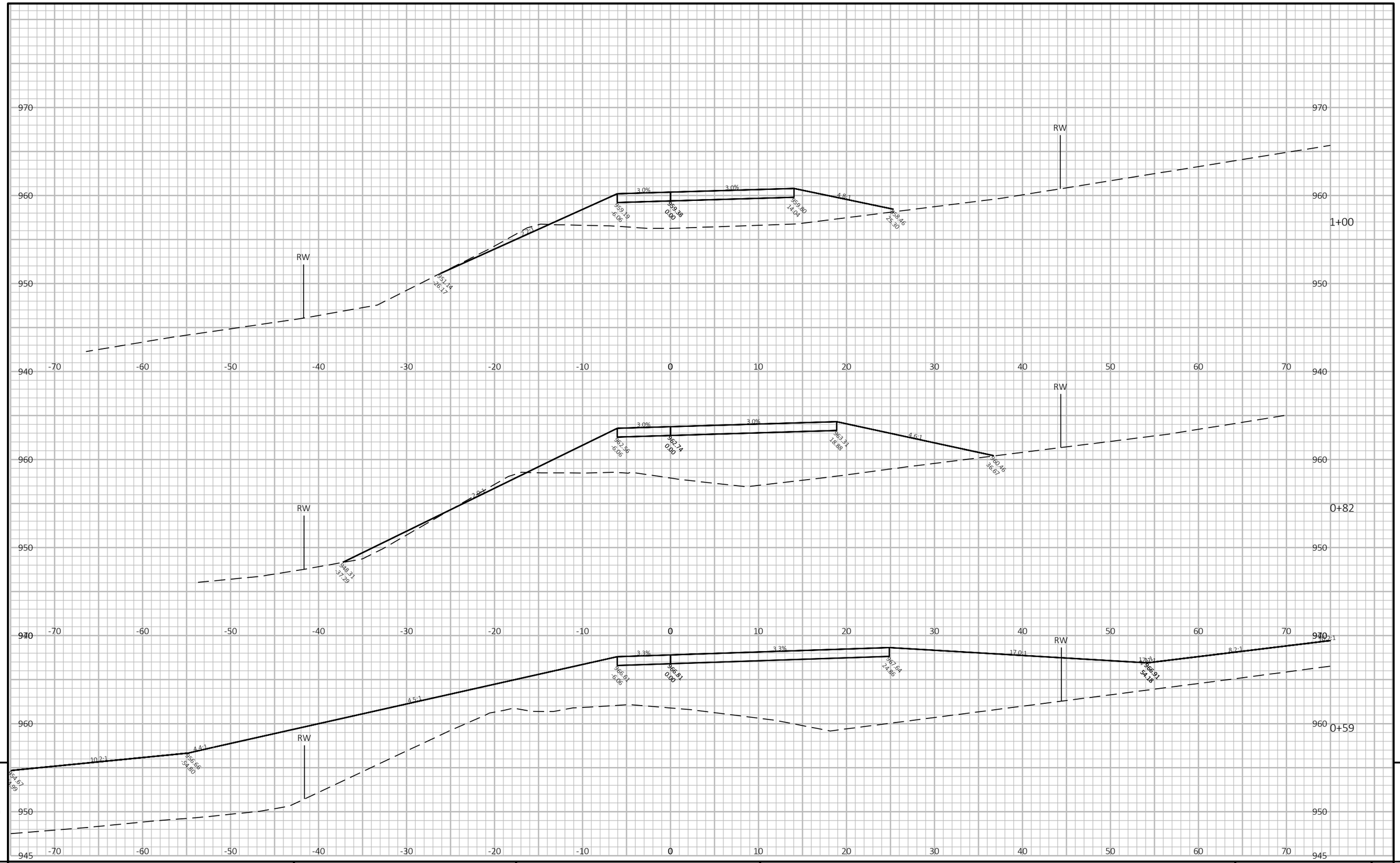
PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: DRIVEWAY STA 14+35 LT	SHEET 176 E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - 14+35 DRIVE

PLOT DATE : 3/26/2025 2:51 PM PLOT BY : JORDAN JELINSKI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:51:25 PM, JJelinski, 1:1



PROJECT NO: 6508-01-71	HWY: GRANDVIEW ROAD	COUNTY: OUTAGAMIE	CROSS SECTIONS: DRIVEWAY STA 16+85 LT	SHEET 177	E

FILE NAME : W:\PROJECTS\E0037\082200420\CADD\CIVIL3D\C3D SOURCE\WISDOT\GRANDVIEW ROAD CORRIDOR WISDOT.DWG
LAYOUT NAME - FUTURE RD

PLOT DATE : 3/26/2025 2:51 PM PLOT BY : JORDAN JELINSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

W:\PROJECTS\E0037\082200420\CADD\Civil3D\C3D Source\WISDOT\Grandview Road Corridor WISDOT.dwg, 3/26/2025 2:51:28 PM, JJelinski, 1:1

Wisconsin Department of Transportation

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