MARCH 2025

Section No.

Section No.

Section No.

Section No.

Section No. Section No.

Section No.

Section No.

TOTAL SHEETS = 106

ORDER OF SHEETS

Typical Sections and Details (Includes Erosion Control)

Estimate of Quantities

Computer Earthwork Data

Cross Sections

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

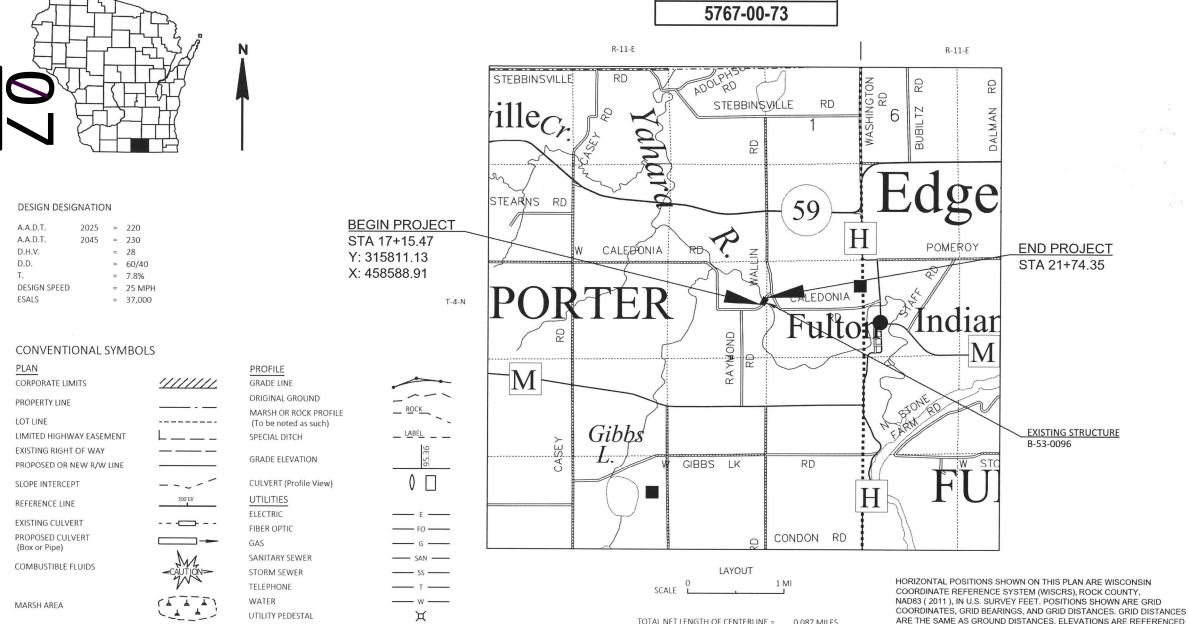
FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5767-00-73 WISC 2025363

TOWN OF PORTER, CALEDONIA ROAD

YAHARA RIVER BRIDGE B-53-0096

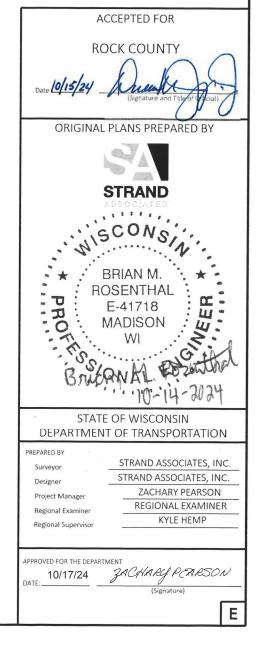
LOC STR **ROCK COUNTY**

STATE PROJECT NUMBER



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TELEPHONE POLE

WOODED OR SHRUB AREA

TOTAL NET LENGTH OF CENTERLINE = 0.087 MILES

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

GENERAL NOTES:

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

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

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S APPROVED EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER IN CONSULTATION WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

WETLANDS EXIST IN THE PROJECT AREA. DO NOT DISTURB AREAS OUTSIDE THE SLOPE INTERCEPTS.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION.

GRADES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISITING FIELD CONDITIONS.

EXISTING SIGNS SHALL REMAIN IN PLACE UNLESS MOVED AS PART OF THE PLAN OR THE ENGINEER APPROVES THE REMOVAL.

SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

ASF	PHALT BID/MIX SPE	CIFICATIONS
	THICKNESS	BID/MIX SPECIFICATIONS
UPPER LAYER	2.25-INCH	4 LT 58-28 S
LOWER LAYER	3-INCH	3 LT 58-28 S

ORDER OF SECTION 2 SHEETS

GENERAL NOTES TYPICAL SECTIONS CONSTRUCTION DETAILS WETLAND DETAIL LAYOUT DETAIL **EROSION CONTROL** STORM SEWER SIGNING BRIDGE CLOSURE DETAIL

OTHER CONTACTS

DESIGN CONSULTANT

KEITH BEHREND STRAND ASSOCIATES, INC. 910 WEST WINGRA DRIVE MADISON, WI 53715 (608) 251-4843 KEITH.BEHREND@STRAND.COM

DNR LIASON

SHELLEY NELSON DNR SOUTH CENTRAL REGION 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 PH: (608) 444-2835 SHELLEY.NELSON@WISCONSIN.GOV

ROCK COUNTY

DUANE JORGENSON, JR., DIRECTOR OF PUBLIC WORKS ROCK COUNTY 3715 NORTH NEWVILLE ROAD JANESVILLE, WI 53545 (608) 757-5450 DUANE.JORGENSON@CO.ROCK.WI.US

WISDOT CONTACT

ZACHARY PEARSON WISDOT SOUTHWEST REGION 2101 WRIGHT STREET MADISON, WI 53704 (608) 246-5319 ZACHARY.PEARSON@DOT.WI.GOV

UTILITY CONTACTS

** FRONTIER - COMMUNICATIONS

JERRY MOORE N360 NEBRASKA STREET BRIGGSVILLE, WI 53920 608-346-0353 JERALD.MOORE@FTR.COM

** ROCK ENERGY COOPERATIVE - ELECTRIC

AARON RECHLIN 2815 N.KENNEDY ROAD JANESVILLE, WI 53547 608-531-6562 AARONR@ROCK.COOP

** SPECTRUM - COMMUNICATIONS

TOM PHILLIPS 1348 PLAINFIELD AVENUE JANESVILLE, WI 53546 608-209-4821 THOMAS.PHILLIPS@CHARTER.COM

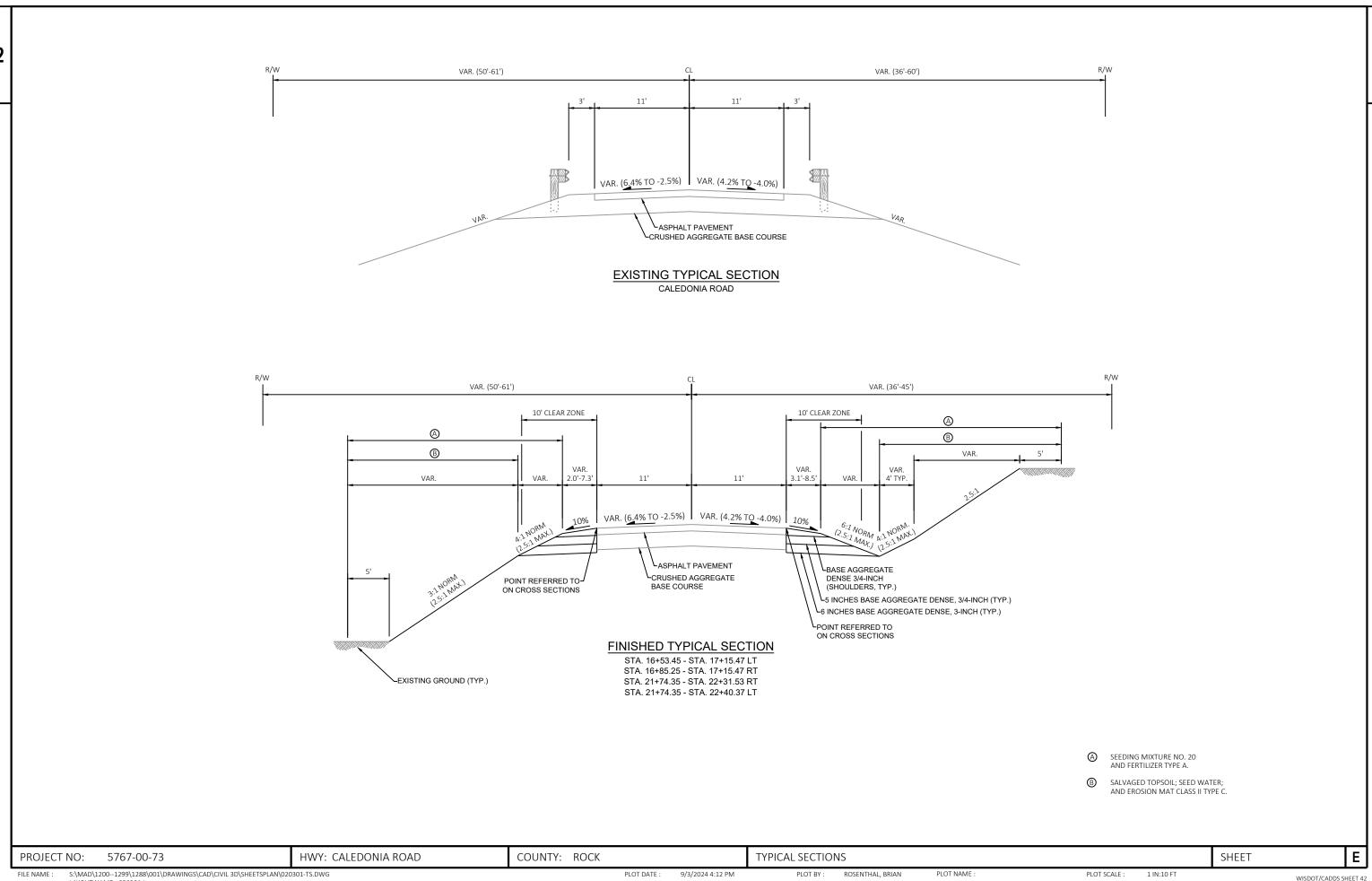
** DENOTES DIGGERS HOTLINE MEMBER

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

PROJECT NO: 5767-00-73 HWY: CALEDONIA ROAD COUNTY: ROCK **GENERAL NOTES** SHEET Ε

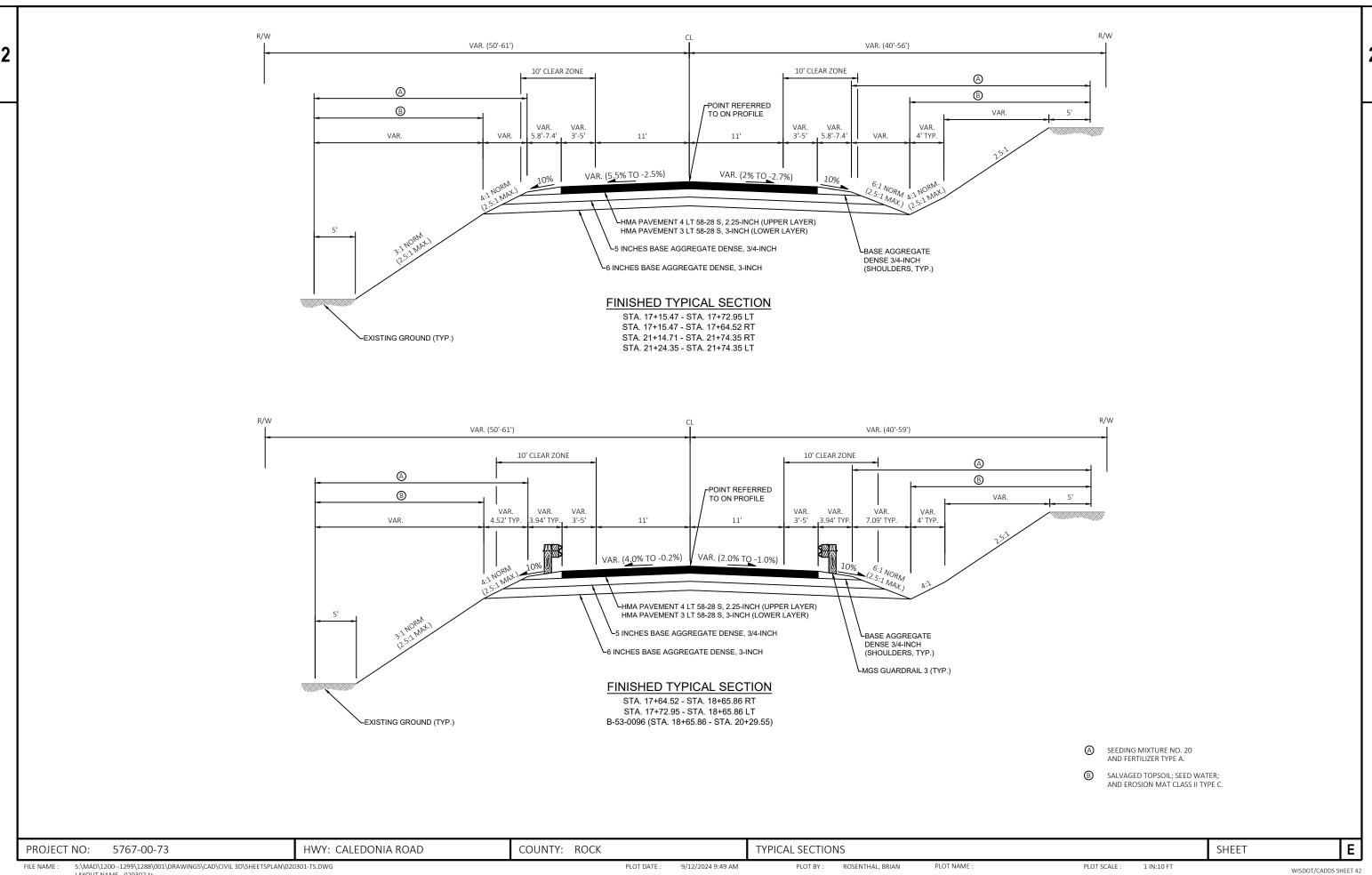
1/7/2025 9:55 AM

FILE NAME :



LAYOUT NAME - 020301-ts

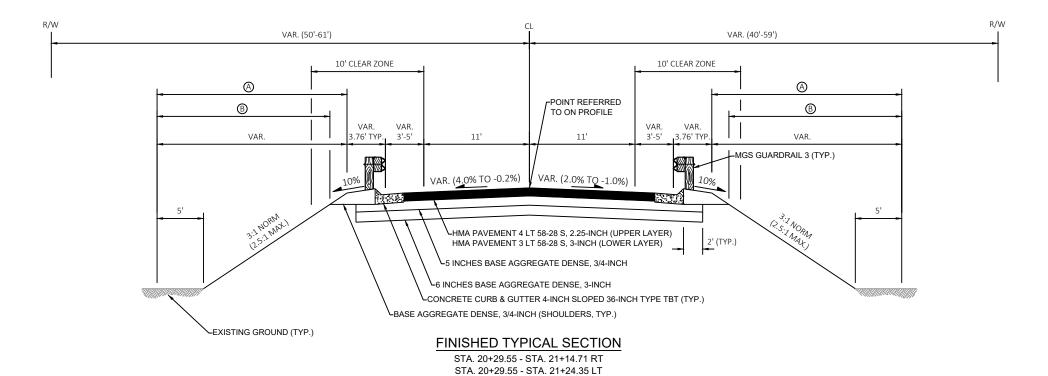
WISDOT/CADDS SHEET 42



LAYOUT NAME - 020302-ts



WISDOT/CADDS SHEET 42



SEEDING MIXTURE NO. 20 AND FERTILIZER TYPE A. \triangle

SALVAGED TOPSOIL; SEED WATER; AND EROSION MAT CLASS II TYPE C. $^{\mathbb{B}}$

COUNTY: ROCK Ε PROJECT NO: 5767-00-73 HWY: CALEDONIA ROAD TYPICAL SECTIONS SHEET S:\MAD\1200--1299\1288\001\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\020301-TS.DWG PLOT DATE : 9/12/2024 9:49 AM PLOT BY: ROSENTHAL, BRIAN PLOT NAME : PLOT SCALE : 1 IN:10 FT FILE NAME :

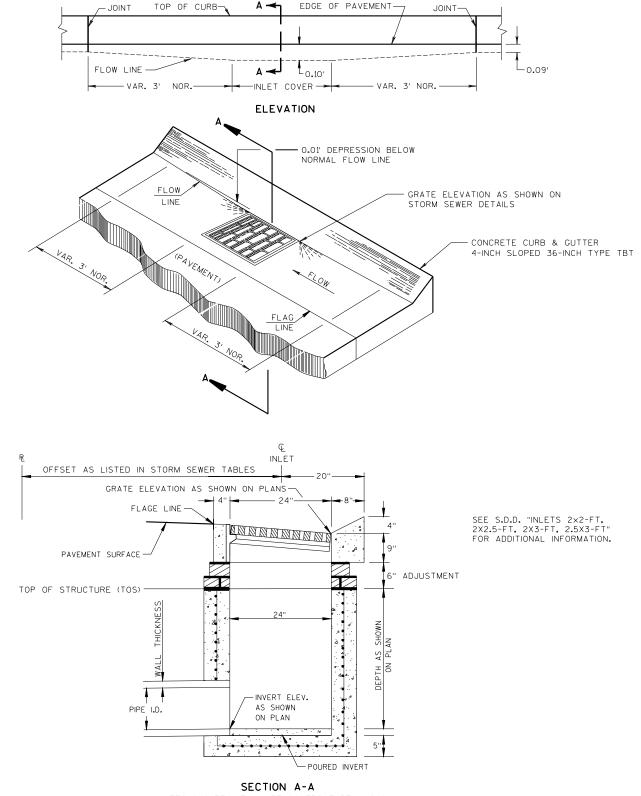
LAYOUT NAME - 020303-ts

RUNOFF COEFFICIENT TABLE

						HYDROLOGIC	SOIL GI	ROUP				
		А			В			С			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
DOW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
ROW CROPS:	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MAEDIANI CTRIPTURE	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
MEDIAN STRIPTURF:	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPETURF:			.25			.27			.28			.30
SIDE SLOPETURF:			.32			.34			.36			.38
PAVEMENT:												
ASPHALT:						.70	95					
CONCRETE:						.80	95					
BRICK:						.70	80					
DRIVES, WALKS:						.75	85					
ROOFS:						.75	95					
GRAVEL ROADS, SHOULDERS:						.40	60					

HWY: CALEDONIA ROAD

TOTAL PROJECT AREA = 1.39 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.49 ACRES



(INLETS 2X2-FT WITH INLET COVERS TYPE V SHOWN)

DETAIL OF CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT AT INLETS

STA 20+67 LT STA 20+68 RT STA 20+78 LT

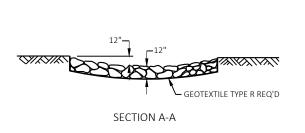
Ε CONSTRUCTION DETAILS SHEET

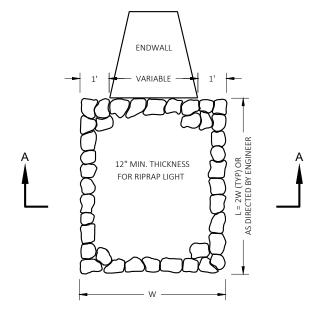
COUNTY: ROCK

5767-00-73

PROJECT NO:

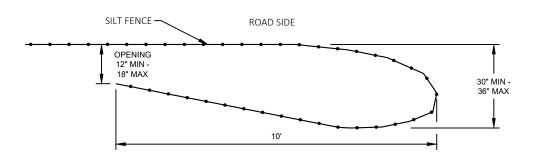
WISDOT/CADDS SHEET 42





RIPRAP LIGHT TREATMENT AT CULVERTS

STA 20+72 LT STA 21+35 LT



TEMPORARY TURTLE TURN-AROUND

STA 18+45 RT STA 18+60 LT STA 21+05 RT STA 21+50 LT

NOTE:
SILT FENCE POST FOR THE TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND AND
TRENCHED IN ACCORDANCE WITH SILT FENCE REQUIREMENTS. TURN AROUND TO BE PAID AS "SILT FENCE".

5767-00-73 COUNTY: ROCK Ε PROJECT NO: HWY: CALEDONIA ROAD CONSTRUCTION DETAILS SHEET S:\MAD\1200--129\1288\001\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 021002-cd PLOT BY: ROSENTHAL, BRIAN PLOT DATE : 9/4/2024 4:51 PM PLOT NAME : PLOT SCALE : 1 IN:40 FT FILE NAME :



POTENTIAL LAYOUT DURING CONSTRUCTION ON SOUTHERN PORTION OF BRIDGE "HAZARD - BRIDGE WORK AHEAD" SIGN -R (R) 00 0 8' MIN. -> 18+00 21+00 22+00 CALEDONIA ROAD SPAN 1 SPAN 2 SPAN 3 8' MIN. (G) BOAT TRAFFIC CONTROL (C) R BUOYS PAID FOR AS PART OF "TRAFFIC CONTROL" (G) LEGEND DANGER BUOY G GREEN DIRECTIONAL BUOY (R) RED DIRECTIONAL BUOY "HAZARD - BRIDGE WORK AHEAD" SIGN -SIGN ON POST POTENTIAL LAYOUT DURING CONSTRUCTION ON NORTHERN PORTION OF BRIDGE "HAZARD - BRIDGE WORK AHEAD" SIGN -00 0 18+00 21+00 22+00 CALEDONIA ROAD SPAN 1 SPAN 3 SPAN 2 (C) R BOAT TRAFFIC CONTROL BUOYS PAID FOR AS PART \mathbb{R} OF "TRAFFIC CONTROL" LEGEND R DANGER BUOY G GREEN DIRECTIONAL BUOY (R) RED DIRECTIONAL BUOY 0 "HAZARD - BRIDGE SIGN ON POST WORK AHEAD" SIGN -PROJECT NO: 5767-00-73 HWY: CALEDONIA ROAD COUNTY: ROCK CONSTRUCTION DETAILS - BOAT TRAFFIC CONTROL

MAINTAIN BOAT TRAFFIC AT ALL TIMES ON THE YAHARA RIVER THROUGH THE WORK ZONE.

ACCESS LOCATION UNDER BRIDGE TO BE DETERMINED BY CONTRACTOR'S OPERATIONS AND AS DIRECTED BY THE ENGINEER.

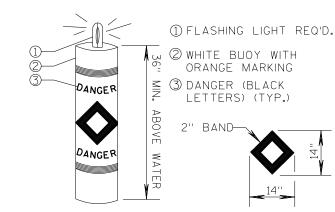
THE EXACT LOCATION AND SPACING OF ALL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

PLACE "HAZARD - BRIDGE WORK AHEAD" SIGNS AT THE NEAREST UPSTREAM AND DOWNSTREAM BOAT LAUNCHES.



36" X 18"

HAZARD SIGN DETAIL NOT TO SCALE



TYPICAL DANGER BUOY DETAIL



1 BUOYS ARE GREEN OR RED DEPENDING ON THE LOCATION. GREEN BUOYS ARE PROVIDED ON THE LEFT SIDE OF THE CHANNEL WHEN LOOKING UPSTREAM AND RED BUOYS ARE PROVIDED ON THE RIGHT SIDE OF THE CHANNEL WHEN LOOKING UPSTREAM.

TYPICAL DIRECTIONAL BUOY DETAIL

SHEET

S:\MAD\1200--1299\1288\001\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\021001-CD.DWG FILE NAME :

PLOT DATE :

PLOT BY: ROSENTHAL, BRIAN

PLOT NAME

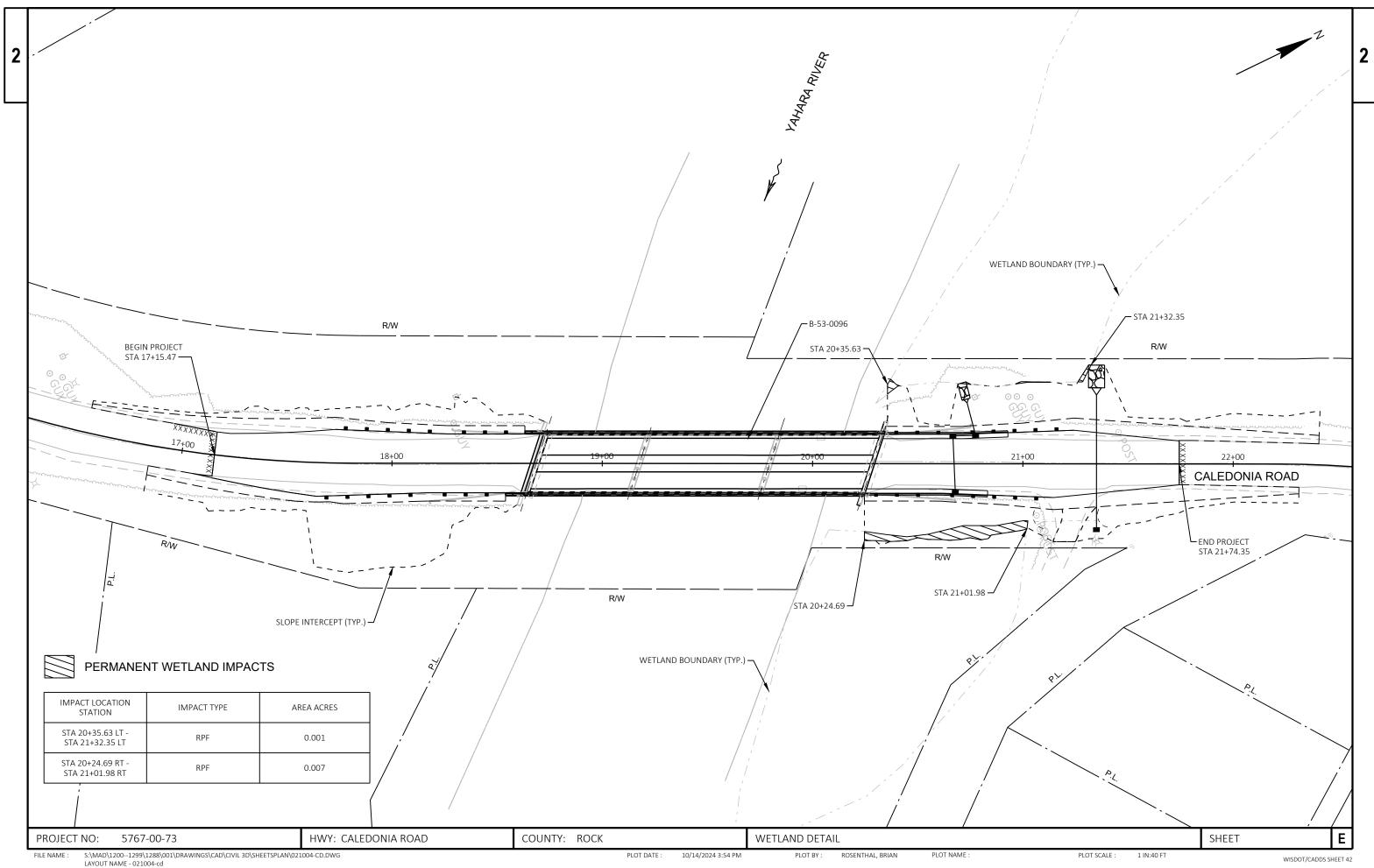
PLOT SCALE :

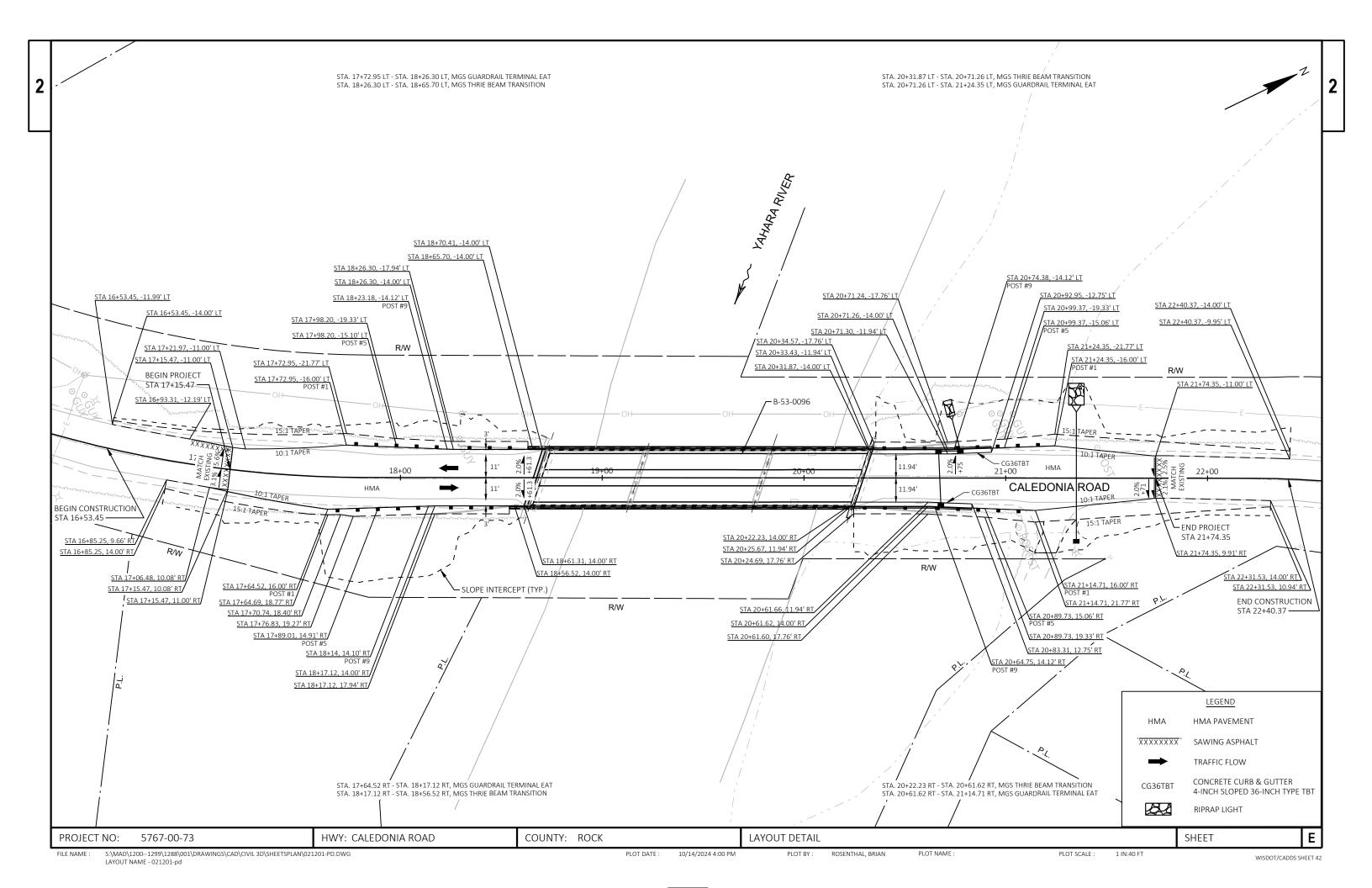
1 IN:60 FT

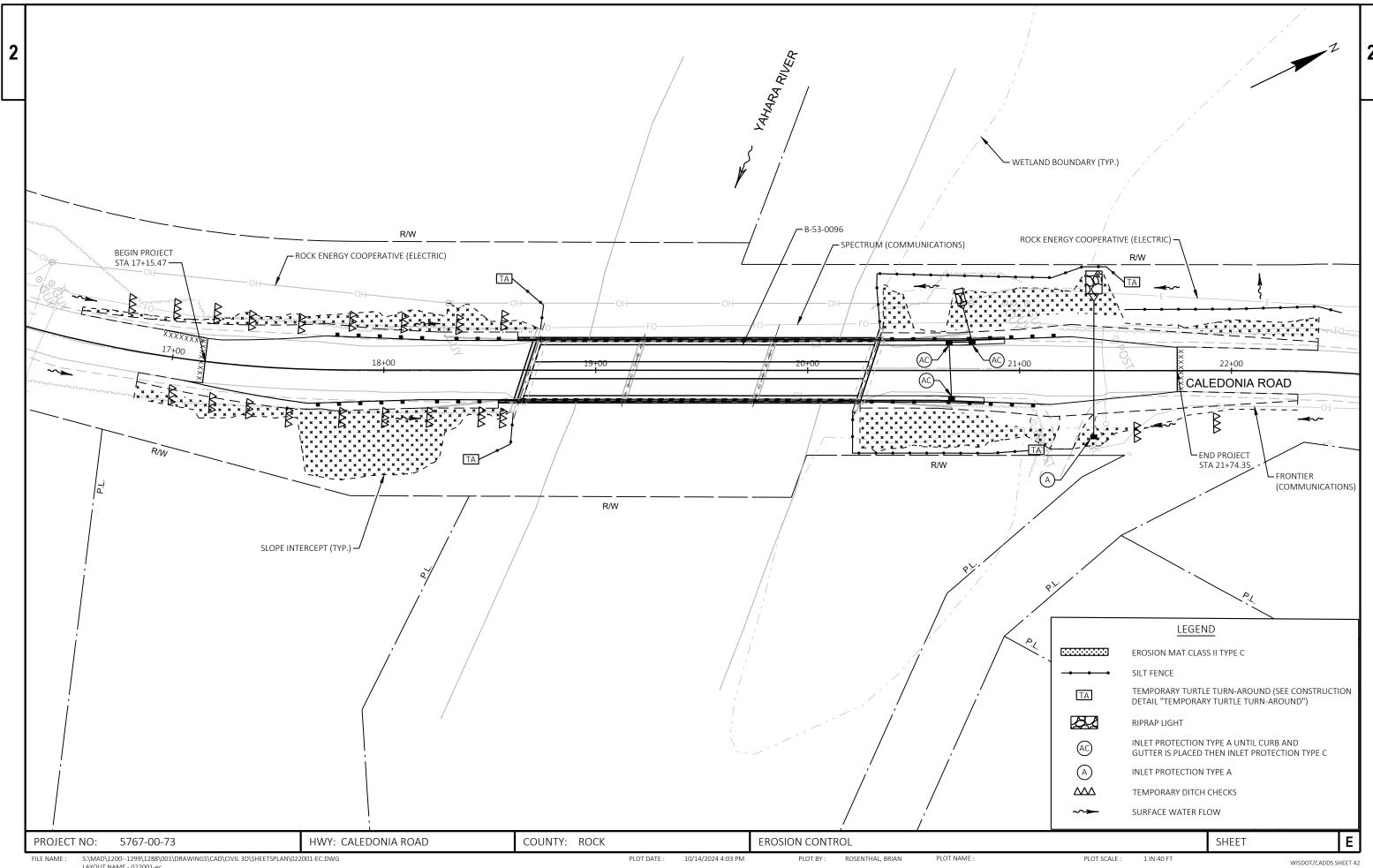
WISDOT/CADDS SHEET 42

Ε

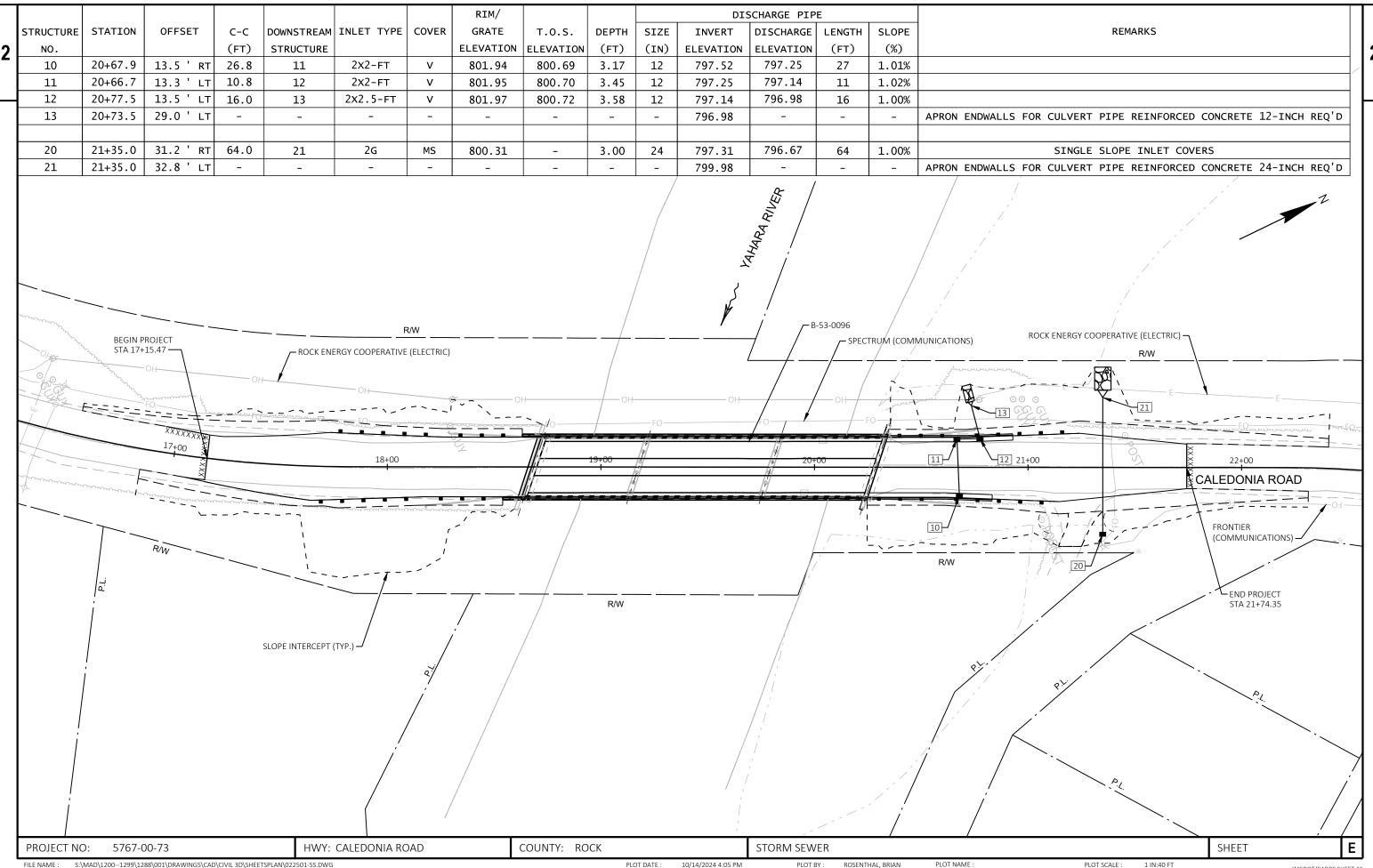
10/15/2024 10:58 AM







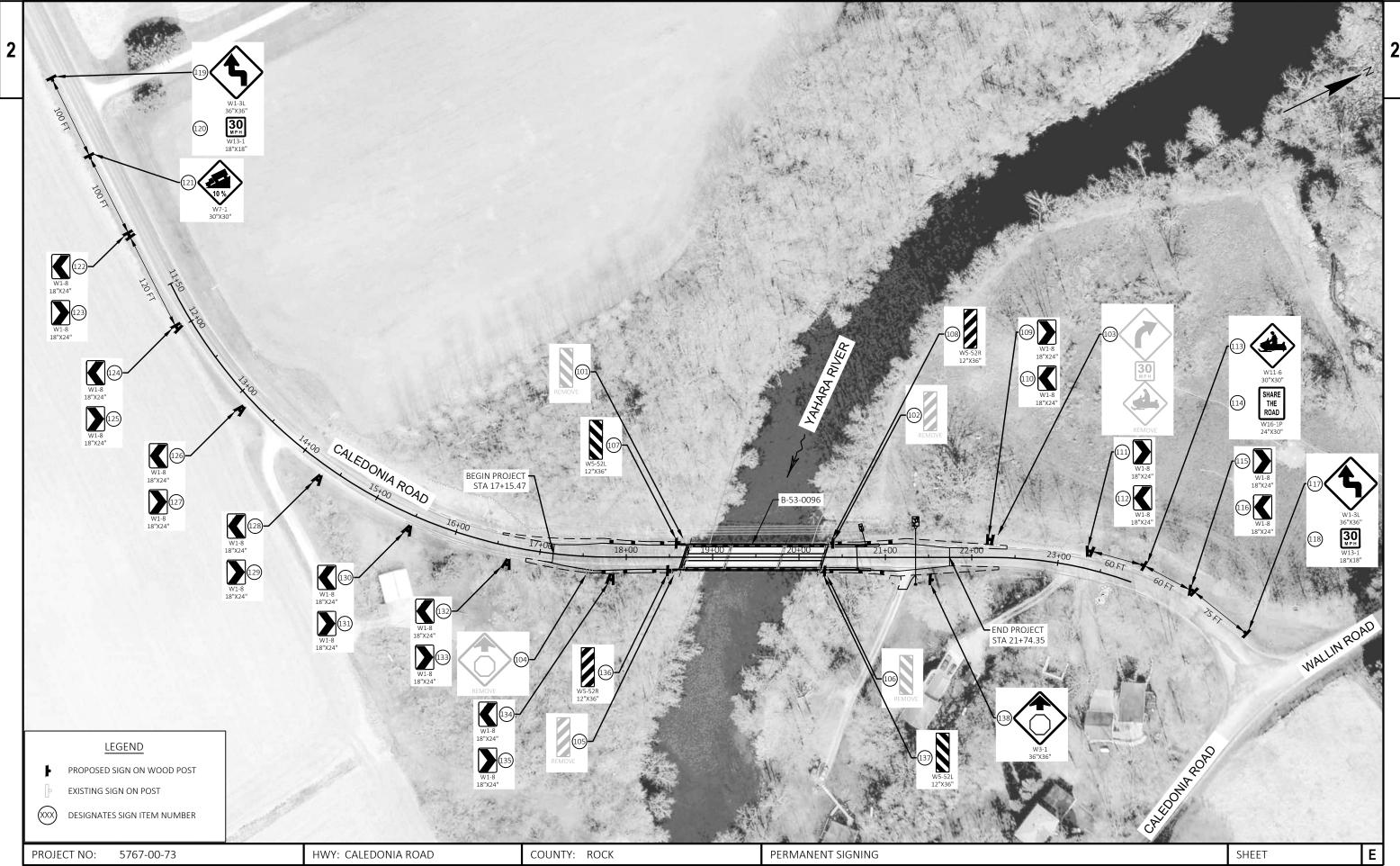
LAYOUT NAME - 022001-ec



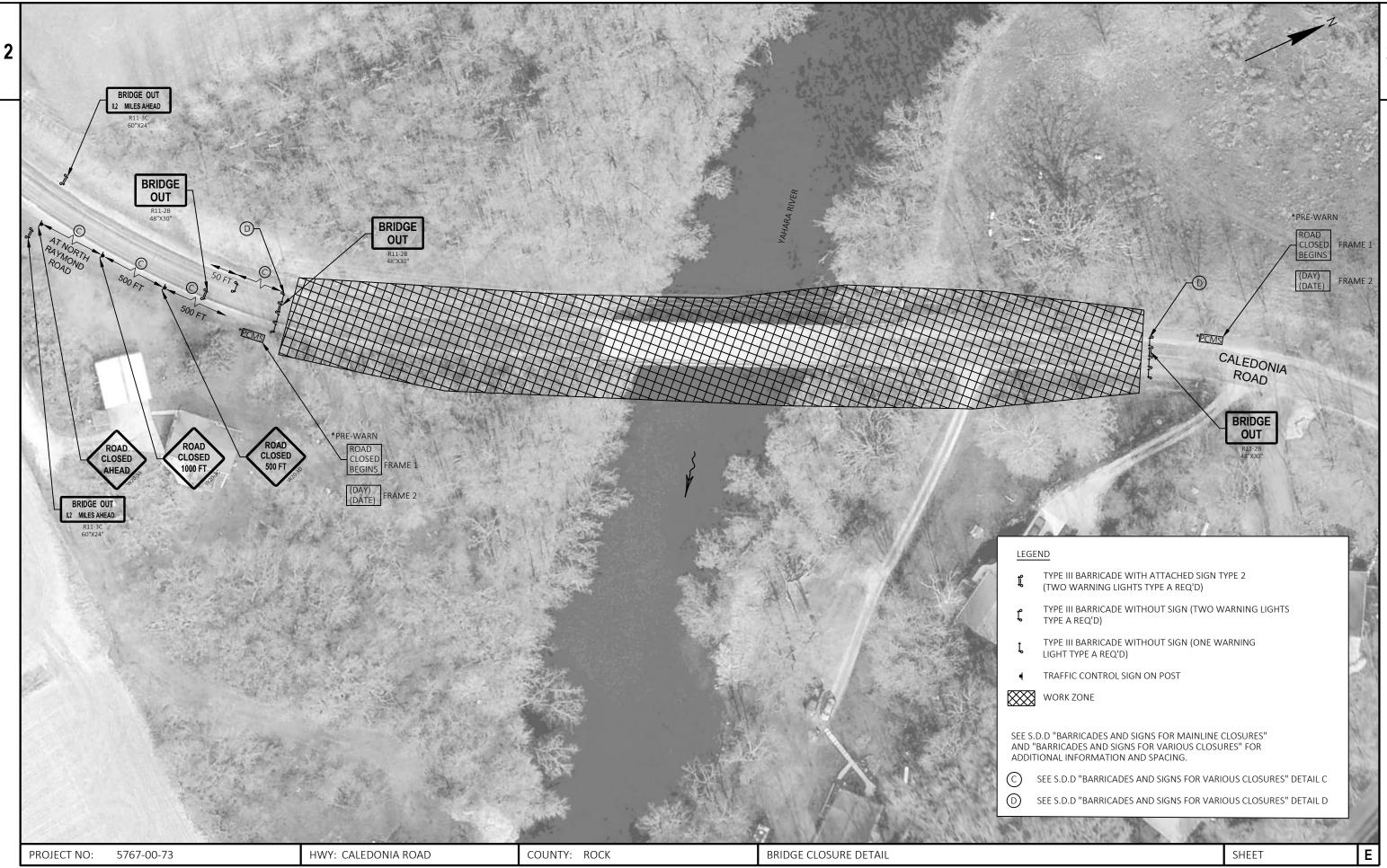
S:\MAD\1200--1299\1288\001\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\022501-SS.DWG FILE NAME : LAYOUT NAME - 022501-ss

PLOT DATE : 10/14/2024 4:05 PM PLOT BY: ROSENTHAL, BRIAN PLOT SCALE :

WISDOT/CADDS SHEET 42



LE NAME: S:\MAD\1200--1299\1288\001\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\023201-PS.DWG PLOT DATE: 9/10/2024 8:40 AM PLOT BY: ROSENTHAL, BRIAN PLOT NAME: PLOT NAME: 1 IN:100 FT WISDOT/CADDS SHEET 42 AVOUT NAME - 0/33201-ps





E NAME : S:\MAD\1200--129\1288\001\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\027001-DT.DWG PLOT DATE : 9/9/2024 9:03 AM PLOT BY : ROSENTHAL, BRIAN PLOT NAME : PLOT SCALE : ########## WISDOT/CADDS SHEET 42
LAYOUT NAME - 027002-dt

57	67	-00)-7	3

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	5.000	5.000
0002	201.0205	Removing Small Pipe Culverts	EACH	1.000	1.000
0004	203.0100	Removing Structure Over Waterway Minimal Debris (structure) 01. B-53-96	EACH	1.000	1.000
0008	203.0260	Removing Guardrail	LF	170.000	170.000
	205.0100	Excavation Common	CY	720.000	720.000
0010 0012	205.0100	Excavation Common Excavation for Structures Bridges (structure) 01. B-53-96	EACH	1.000	1.000
0012	210.1500	Backfill Structure Type A	TON	8.000	8.000
		• •			
0016	213.0100	Finishing Roadway (project) 01. 5767-00-73	EACH	1.000	1.000
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	700.000	700.000
0020	305.0130	Base Aggregate Dense 3-Inch	TON	701.000	701.000
0022	455.0605	Tack Coat	GAL	45.000	45.000
0024	460.2000	Incentive Density HMA Pavement	DOL	170.000	170.000
0026	460.5223	HMA Pavement 3 LT 58-28 S	TON	150.000	150.000
0028	460.5224	HMA Pavement 4 LT 58-28 S	TON	113.000	113.000
0030	502.0100	Concrete Masonry Bridges	CY	185.000	185.000
0032	502.3101	Expansion Device	LF	30.000	30.000
0034	502.3200	Protective Surface Treatment	SY	509.000	509.000
0036	502.3210	Pigmented Surface Sealer	SY	168.000	168.000
0038	502.4106	Adhesive Anchors 3/4-inch	EACH	4.000	4.000
0040	502.4205	Adhesive Anchors No. 5 Bar	EACH	64.000	64.000
0042	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	48,270.000	48,270.000
0044	506.2610	Bearing Pads Elastomeric Laminated	EACH	4.000	4.000
0046		Removing Bearings (structure) 01. B-53-96	EACH	4.000	4.000
0048	509.1500	Concrete Surface Repair	SF	30.000	30.000
0050		Preparation and Coating of Top Flanges (structure) 01. B-53-96	EACH	1.000	1.000
0050		Structure Repainting Recycled Abrasive (structure) 01. B-53-96	EACH	1.000	1.000
0052		Negative Pressure Containment and Collection of Waste Materials (structure) 01. B-53-		1.000	1.000
		96			
0056		Portable Decontamination Facility	EACH	1.000	1.000
0058	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	1.000	1.000
0060	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	1.000	1.000
0062	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	115.000	115.000
0064	606.0100	Riprap Light	CY	4.300	4.300
0066	606.0300	Riprap Heavy	CY	3.000	3.000
0068	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	54.000	54.000
0070	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	64.000	64.000
0072	611.0642	Inlet Covers Type MS	EACH	2.000	2.000
0074	611.0654	Inlet Covers Type V	EACH	3.000	3.000
0076	611.3220	Inlets 2x2-FT	EACH	2.000	2.000
0078	611.3225	Inlets 2x2.5-FT	EACH	1.000	1.000
0080	611.3902	Inlets Median 2 Grate	EACH	1.000	1.000
0082	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000
0082	614.2500	MGS Thrie Beam Transition	LF	158.000	158.000
0086	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
8800	618.0100	Maintenance and Repair of Haul Roads (project) 01. 5767-00-73	EACH	1.000	1.000
0090	619.1000	Mobilization	EACH	1.000	1.000
0092	624.0100	Water	MGAL	21.000	21.000
0094	625.0500	Salvaged Topsoil	SY	969.000	969.000
0096	627.0200	Mulching	SY	450.000	450.000

5767	\cup	72
5767-	-00-	ıo

Line	Item	Item Description	Unit	Total	Qty
0098	628.1504	Silt Fence	LF	930.000	930.000
0100	628.1520	Silt Fence Maintenance	LF	1,365.000	1,365.000
0102	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0104	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0106	628.2027	Erosion Mat Class II Type C	SY	945.000	945.000
0108	628.7005	Inlet Protection Type A	EACH	5.000	5.000
0110	628.7015	Inlet Protection Type C	EACH	4.000	4.000
0112	628.7504	Temporary Ditch Checks	LF	219.000	219.000
0114	628.7560	Tracking Pads	EACH	2.000	2.000
0116	629.0205	Fertilizer Type A	CWT	1.000	1.000
0118	630.0120	Seeding Mixture No. 20	LB	51.000	51.000
0120	630.0300	Seeding Borrow Pit	LB	20.000	20.000
0122	630.0500	Seed Water	MGAL	36.000	36.000
0124	633.5200	Markers Culvert End	EACH	2.000	2.000
0124	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	10.000	10.000
0128	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000
0130	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	1.000	1.000
0132	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	4.000	4.000
0134	637.2230	Signs Type II Reflective F	SF	119.000	119.000
0136	638.2602	Removing Signs Type II	EACH	8.000	8.000
0138	638.3000	Removing Small Sign Supports	EACH	6.000	6.000
0140	642.5201	Field Office Type C	EACH	1.000	1.000
0140	643.0420	Traffic Control Barricades Type III	DAY	814.000	814.000
0144	643.0705	Traffic Control Warning Lights Type A	DAY	1,480.000	1,480.000
0144	643.0703	Traffic Control Signs	DAY	1,110.000	1,110.000
0148	643.1000	Traffic Control Signs Fixed Message	SF	40.500	40.500
0150	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0150	643.5000	Traffic Control	EACH	1.000	1.000
0154	645.0130	Geotextile Type R	SY	21.000	21.000
0154	650.4000	Construction Staking Storm Sewer	EACH	6.000	6.000
0158	650.4500	Construction Staking Storm Sewer Construction Staking Subgrade	LF	305.000	305.000
0160	650.5000	Construction Staking Subgrade Construction Staking Base	LF LF	305.000	305.000
0162	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF LF	115.000	115.000
0164	650.6501	Construction Staking Curb Gutter and Curb & Gutter Construction Staking Structure Layout (structure) 01. B-53-96	EACH	1.000	1.000
	650.9911	Construction Staking Structure Layout (structure) 01. B-53-96 Construction Staking Supplemental Control (project) 01. 5767-00-73		1.000	1.000
0166 0168	650.9911	Construction Staking Supplemental Control (project) 01. 5/67-00-73 Construction Staking Slope Stakes	EACH LF	435.000	435.000
0170	690.0150	Sawing Asphalt	LF LF	64.000	64.000
		• ,			
0172	999.2000.S ASP.1T0A		EACH	1.000	1.000
0174		On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0176		On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0178	SPV.0180	Special 01. Abutment Seat Cleaning and Sealing	SY	8.000	8.000

	GRUBBIN	lG .		-		RE	MOVING SMAI	LL PIPE CUL	VERTS		REMOVING GUA	ARDRAIL	
			201.0205 GRUBBING					203.0100		CATEGORY	STATION - STATION	LOCATION	204.0165 LF
CATEGORY	STATION - STATION	LOCATION	STA	_	CATEGORY	STATION	LOCATION	EACH	REMARKS				
										0010	18+18 - 18+59	RT	40
0010	17+00 - 19+00	LT/RT	2		0010	21+21	RT	1	24-INCH X 31-FOOT CMCP		18+29 - 18+69	LT	45
	20+00 - 23+00	LT/RT	3								20+27 - 20+68	RT	45
											20+36 - 20+75	LT	40
	_	TOTAL	5										
											TOTAL		170

					EARTHWORK						
				205.0100							* 305.0130 BASE AGGREGATE
			EXCAV	ATION COMMON (1)	AVAILABLE	EXPANDED EBS	UNEXPANDED	EXPANDED	MASS ORDINATE	WASTE	DENSE 3-INCH
			CUT (2)	EBS EXCAVATION (3)	MATERIAL (4)	BACKFILL (5)	FILL	FILL (6)	+/- (7)	(8)	(9)
				5% OF CUT		FACTOR 1.25		FACTOR 1.25			_
CATEGORY	LOCATION	STATION - STATION	CY	CY	CY	CY	CY	CY	CY	CY	TON
0010	CALEDONIA ROAD	16+53.45 - 22+40.37	688	32	688	40	67	84	604	604	76
	•	TOTALS		720	688	40	67	84	604	604	76

^{*} ADDITIONAL QUANTITIES LISTED ELSEWHERE.

- 1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100.
- 2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- 3) EBS EXCAVATION TO BE BACKFILLED WITH BASE AGGREGATE DENSE 3-INCH.
- 4) AVAILABLE MATERIAL = CUT.
- 5) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BASE AGGREGATE DENSE 3-INCH. EBS BACKFILL EXPANSION FACTOR = 1.25.
- 6) EXPANDED FILL = (UNEXPANDED FILL)* EXPANDED FILL FACTOR. EXPANDED FILL FACTOR = 1.25.
- 7) MASS ORDINATE: MASS ORDINATE = CUT EXPANDED FILL.
 - PLUS MASS ORDINATE QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS MASS ORDINATE QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
- 8) WASTE = POSITIVE MASS ORDINATE. BORROW = NEGATIVE MASS ORDINATE.
- 9) BASE AGGREGATE DENSE 3-INCH IS USED FOR BACKFILL OF EBS.

PROJECT NO:	5767-00-73	HWY: CALEDONIA ROAD	COUNTY: ROCK	MISCELLANEOUS QUANTITIES	SHEET:	Е

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F	INISHING ROADV	VAY	BASE AGGREGA	TE SUMMARY	
CATEGORY	PROJECT	213.0100 EACH		305.0110 BASE AGGREGATE	* 305.0130 BASE AGGREGATI
0010	5767-00-73	1	CATEGORY STATION - STATION LOCATION	DENSE 3/4-INCH I TON	DENSE 3-INCH TON
			0010 16+53 - 18+71 LT/RT	335	315
			20+25 - 22+40 LT/RT 	365 	310 625

^{*} ADDITIONAL QUANTITIES LISTED ELSEWHERE.

			460.5223	460.5224	455.0605
			HMA PAVEMENT	HMA PAVEMENT	TACK
			3 LT 58-28 S	4 LT 58-28 S	COAT
CATEGORY	STATION - STATION	LOCATION	TON	TON	GAL
0010	17+06 - 18+70	LT/RT	79	59	24
	20+26 - 21+74	LT/RT	71	54	21

113

NOTE: HMA PAVEMENT WEIGHT CALCULATIONS BASED ON 112 LB/SY/IN.

TOTALS

ASPHALTIC ITEMS

	CONCRETE CURB & GUTTER									
			601.0588							
			CONCRETE							
			CURB & GUTTER							
			4-INCH SLOPED 36-INCH							
			TYPE TBT							
CATEGORY	STATION - STATION	LOCATION	LF							
0010	20+25 - 20+93	LT/RT	115							

		RIPRAP		
			606.0100 RIPRAP LIGHT	645.0130 GEOTEXTILE TYPE R
CATEGORY	STATION	OFFSET	CY	SY
0010	20+72 21+35	34.5' LT 41.5' LT	1.2 3.1	7 14
_	TOT	ALS	4.3	21

PROJECT NO: 5767-00-73 HWY: CALEDONIA ROAD	COUNTY: ROCK	MISCELLANEOUS QUANTITIES	SHEET:	Е
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STORM SEWER

			522.1012 APRON ENDWALLS FOR CULVER	522.1024 RT PIPE REINFORCED CONCRETE	608.0312 STORM SEWER PIPE REINF	608.0324 FORCED CONCRETE CLASS III
	FROM	TO	12-INCH	24-INCH	12-INCH	24-INCH
CATEGORY	STRUCTURE	STRUCTURE	EACH	EACH	LF	LF
0010	10	11			27	
	11	12			11	
	12	13			16	
	13		1			
	20	21				64
	21			1		
	TO1	TALS	1	1	54	64

			INLETS	AND INLET C	OVERS			
				611.3220	611.3225 INLETS	611.3902	611.0642	611.0654
						MEDIAN	INLET (COVERS
	STRUCT.			2x2-FT	2x2.5-FT	2 GRATE	TYPE MS	TYPE V
CATEGORY	ID#	STATION	OFFSET	EACH	EACH	EACH	EACH	EACH
0010	10	20+67.9	13.5' RT	1				1
	11	20+66.7	13.3' LT	1				1
	12	20+77.5	13.5' LT		1			1
	20	21+35.0	31.2' RT			1	2	
-								
		TOTALS		2	1	1	2	3

	GUARDR	AIL SUMMARY		
			614.2610 MGS	614.2500
			GUARDRAIL TERMINAL	MGS THRIE BEAM
			EAT	TRANSITION
CATEGORY	STATION - STATION	LOCATION	EACH	LF
0010	17+65 - 18+66	LT/RT	2	79
	20+22 - 21+24	LT/RT	2	79
	TOTALS		4	158

PROJECT NO: 5767-00-73 HWY: CALEDONIA ROAD COUNTY: ROCK MISCELLANEOUS QUANTITIES SHEET: **E**

PLOT DATE : _____ PLOT BY : _____ PLOT NAME : PLOT SCALE : 1" = 1" WISDOT/CADDS SHEET 42

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VIAIIVILIVAIV	CE AND REPAIR OF	HAUL ROADS			MOBILIZATIC)N				W.A	ATER		
CATEGORY	PROJECT	618.0100 EACH		CATEGORY	PROJECT	619.1000 EACH		CATE	GORY STAT	TON - STATIO		.0100 GAL REM	ARKS
0030	5767-00-73	1		0010	5767-00-73	1		003	10 16	+53 - 22+40		3 DUST COMPA	
										TOTAL		21	
	MOBILIZATIC	NS EROSION CONT	ROL					EROSIO!	N CONTROL				
		628.1905	628.1910					628.1504	628.1520	628.2027	7 628.70	005 628.70	015 628.75
			MOBILIZATIONS					SILT	SILT FENCE	EROSION M CLASS II	IAT	ET PROTECTION	TEMPOR
		MOBILIZATIONS EROSION CONTRO						FENCE	MAINTENANC	E TYPE C	TYPE	A TYPE	C CHECK
CATEGORY	PROJECT	EACH	EACH	<u>-</u>	CATEGORY	STATION - STATION	l LOCATION	LF	LF	SY	EAC	H EAC	H LF
0010	5767-00-73	4	3		0010	16+53 - 18+75	LT/RT	110	160	410			
0010	3707 00 73	7	J			20+21 - 22+60	LT/RT WASTE SITE	400 230	595 340	345 	4	3	30
							UNDISTRIBUTED	190	270	190	1	1	44
						TOTALS		930	1,365	945	5	4	219
	TRACKING	628.7560	_				FINISHIN: 625.0500	G ITEMS 627.0200	629.0205	630.0120	630.0300	630.0500	
CAT	TEGORY LOCAT	TON EACH	_							SEEDING	SEEDING		
C	0010 UNDISTR	IBUTED 2					SALVAGED TOPSOIL	MULCHING		MIXTURE NO. 20	BORROW PIT	SEED WATER	
				CATEGO	ORY STATION - S	STATION LOCATION		SY	CWT	LB	LB	MGAL	
				0010) 16+53 -	18+75 LT/RT	430		0.3	19		10	
				0010	20+21 -	22+60 LT/RT	345		0.3	22		11	
						WASTE SIT		360	0.2	 10	16	8 7	
	MARKERS	CULVERT END				UNDISTRIBUT	ED 194	90	0.2	10	4	/	
	DRY STATION	EUCATION	533.5200 EACH			TOTALS	969	450	1.0	51	20	36	
CATEGO													

TOTAL

637.2230 634.0612 634.0614 634.0616 634.0618 638.2602 638.3000

						SIGN SIZE	SIGNS TYPE II			STS DOD INCH			REMOVING SMALL SIGN	
SI	IGN A	APPROX.		SIGN		$(W \times H)$	REFLECTIVE F	x 12-FT	x 14-FT	x 16-FT	x 18-FT	TYPE II	SUPPORTS	
GORY N	NO.	STA.	LOC.	CODE	SIGN MESSAGE	IN	SF	EACH	EACH	EACH	EACH	EACH	EACH	REMARKS
10 10	.01	18+69	LT	W5-52L	CLEARANCE STRIPER DOWN RIGHT	X						1	1	REMOVE
			LT	W5-52R	CLEARANCE STRIPER DOWN LEFT	X						1	1	REMOVE
		22+25			1-6 RIGHT CURVE, ADVISORY SPEED PLATE (YELLOW BACK), SNOWMOBILE CROSSING SYMBOL	X						3	1	REMOVE
		17+60	RT	W3-1	STOP AHEAD	X						1	1	REMOVE
		18+58	RT	W5-52R	CLEARANCE STRIPER DOWN LEFT	X						1	1	REMOVE
		20+28	RT	W5-52L	CLEARANCE STRIPER DOWN RIGHT	X						1	1	REMOVE
			LT	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12 x 36	3.00		1					KLIVIOVL
			LT	W5-52R	CLEARANCE STRIPER DOWN LEFT	12 x 36	3.00		1					
			LT	W1-8	CHEVRON	12 x 30	3.00	1						
			LT	W1-8	CHEVRON	18 x 24	3.00							SAME POST AS SIG
			LT	W1-8	CHEVRON	18 x 24	3.00	1						SAIVIL FUST AS SIG
		23+33	LT	W1-8	CHEVRON	18 x 24	3.00							SAME POST AS SIG
	13		LT	W11-6	SNOWMOBILE CROSSING SYMBOL	30 x 30	6.25				1			SAIVIL FUST AS SIG
			LT				3.00				1			
	.14			W16-1P	SHARE THE ROAD	18 x 24		1						SAME POST AS SIG
	15		LT	W1-8	CHEVRON	18 x 24	3.00	1						CANAL DOCT AC CIC
	16		LT	W1-8	CHEVRON	18 x 24	3.00				1			SAME POST AS SIG
	17		LT	W1-3L	LEFT REVERSE TURN	36 x 36	9.00				1			CANAL DOCT AC CIC
	18		LT	W13-1	ADVISORY SPEED PLATE (YELLOW BACK)	18 x 18	2.25							SAME POST AS SIG
	.19		RT	W1-3L	LEFT REVERSE TURN	36 x 36	9.00				1			0.4.1.4.5. D.O.T. 4.0.0.1.0
	.20		RT	W13-1	ADVISORY SPEED PLATE (YELLOW BACK)	18 x 18	2.25							SAME POST AS SIG
	.21		RT	W7-1	HILL	30 x 30	6.25			1				
	.22		RT	W1-8	CHEVRON	18 x 24	3.00	1						
	.23		RT	W1-8	CHEVRON	18 x 24	3.00							SAME POST AS SIG
		11+98	RT	W1-8	CHEVRON	18 x 24	3.00	1						
		11+98	RT	W1-8	CHEVRON	18 x 24	3.00							SAME POST AS SIG
1		13+14	RT	W1-8	CHEVRON	18 x 24	3.00	1						
1		13+14	RT	W1-8	CHEVRON	18 x 24	3.00							SAME POST AS SIG
1.		14+32	RT	W1-8	CHEVRON	18 x 24	3.00	1						
		14+32	RT	W1-8	CHEVRON	18 x 24	3.00							SAME POST AS SIG
		15+48	RT	W1-8	CHEVRON	18 x 24	3.00	1						
		15+48	RT	W1-8	CHEVRON	18 x 24	3.00							SAME POST AS SIG
		16+65	RT	W1-8	CHEVRON	18 x 24	3.00	1						
1		16+65	RT	W1-8	CHEVRON	18 x 24	3.00							SAME POST AS SIG
			RT	W1-8	CHEVRON	18 x 24	3.00	1						
_1	.35	17+82	RT	W1-8	CHEVRON	18 x 24	3.00							SAME POST AS SIG
1	.36	18+51	RT	W5-52R	CLEARANCE STRIPER DOWN LEFT	12 x 36	3.00		1					
1	.37	20+27	RT	W5-52L	CLEARANCE STRIPER DOWN RIGHT	12 x 36	3.00		1					
1	.38	21+55	RT	W3-1	STOP AHEAD	36 x 36	9.00				1			
					TOTALS		119.00	10	4	1	4	8	6	

HWY: CALEDONIA ROAD COUNTY: ROCK SHEET: Ε MISCELLANEOUS QUANTITIES PROJECT NO: 5767-00-73 PLOT BY :

PLOT DATE : _

PLOT NAME :

PLOT SCALE: 1" = 1"

WISDOT/CADDS SHEET 42

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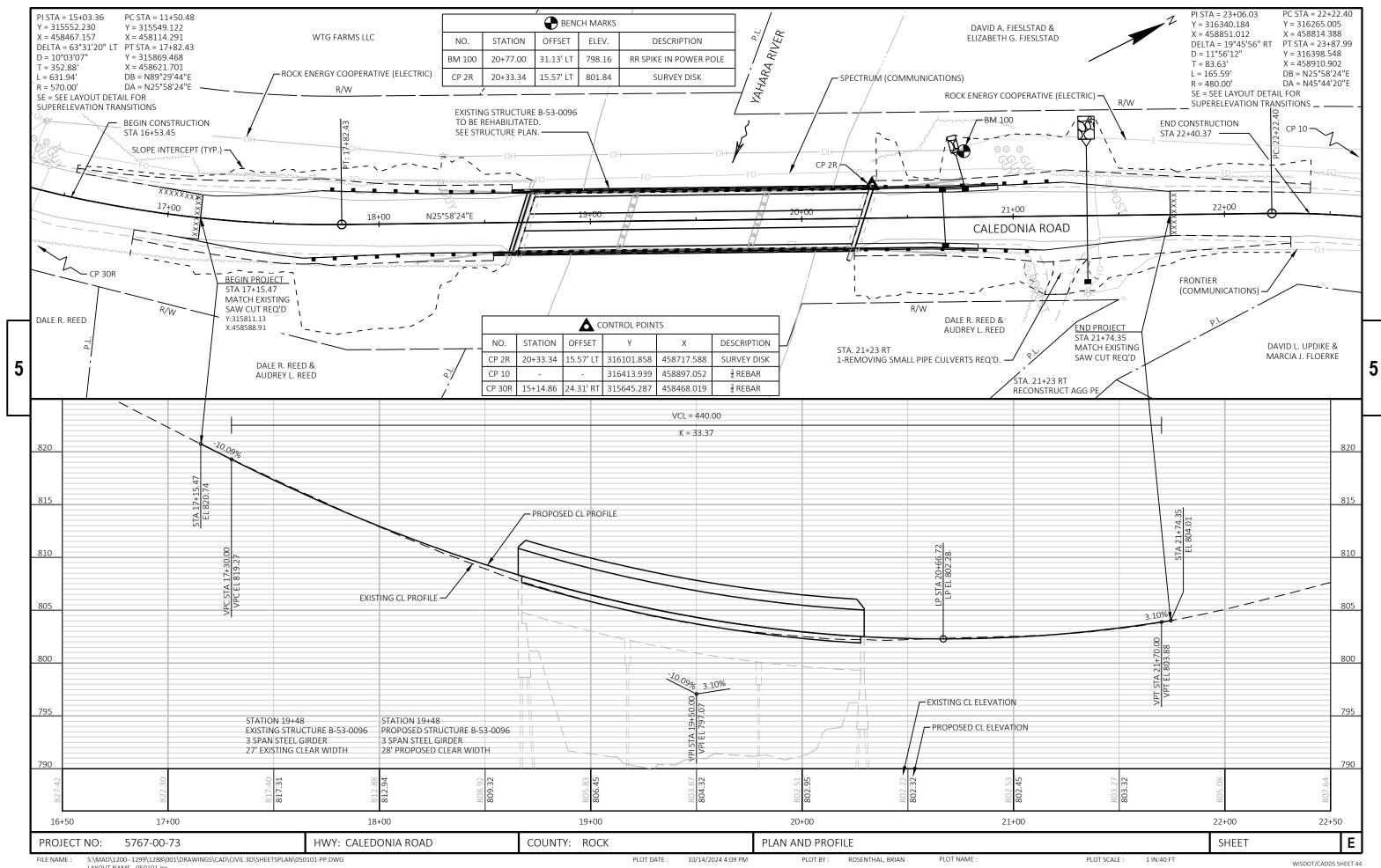
FI	ELD OFFICE TYPE	С	_								TRAFFIC						
		642.5201								643	3.0900	643.	1050	643.	0420	643.0	0705
CATEGORY	PROJECT	642.5201 EACH					TRAFFIC CON	NTROL [DURATION	SI	GNS	SIGNS	PCMS	BARRICAD	ES TYPE III	WARNING LI	GHTS TYPE
0040	5767.00.70	4	_			CATEG	OPERATIO	NS	(DAYS)	EACH	DAY	EACH	DAYS	EACH	DAY	EACH	DAY
0010	5767-00-73	1				001	LO PRE WARN	ING	7			2	14				
							CLOSUR	E	74	15	1,110			11	814	20	1,480
									TOTALS		1,110		14		814		1,480
	TRAFFI	C CONTROL S	IGNS FIX	KED MESS	AGE		<u></u>										
						643.100	00					TRAFF	IC CONT	ROL			
CATEGORY			CATION			SF	_			(CATEGORY	PROJ	IECT	643.50 EACH			
0010		GE CLOSURE C CONTROL:			NIA RD E WORK AHEA[22.5 D 18.0					0010	5767-0	00-73	1			
			TOTAL			40.5	<u> </u>										
			CONST	RUCTION	STAKING				_			CONS	TRUCTIC	ON STAKING :	STRUCTURE	LAYOUT	
				STORM		(650.5500 CURB GUTTER AND		_		C	ATEGORY		STRUCTURE		650.6501 EACH	_
ATEGORY	STATION - STA	TION LOC	ATION	SEWER EACH	SUBGRADE LF	BASE LF	CURB & GUTTER LF	STAKES LF	_			0020		B-53-96		1	
0010	16+53 - 18+ 20+25 - 22+		T/RT T/RT	 6	155 150	155 150	 115	220 215									
-	TOTALS			6	305	305	115	435	_								

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT)									
		650.9911							
CATEGORY	PROJECT	EACH							
0010	5767-00-73	1							

-		SAWING		
				690.0150
				ASPHALT
	CATEGORY	STATION - STATION	LOCATION	LF
	0010	16+93 - 17+15	LT/RT	43
		21+74 - 21+74	LT/RT	21
		TOTAL		64

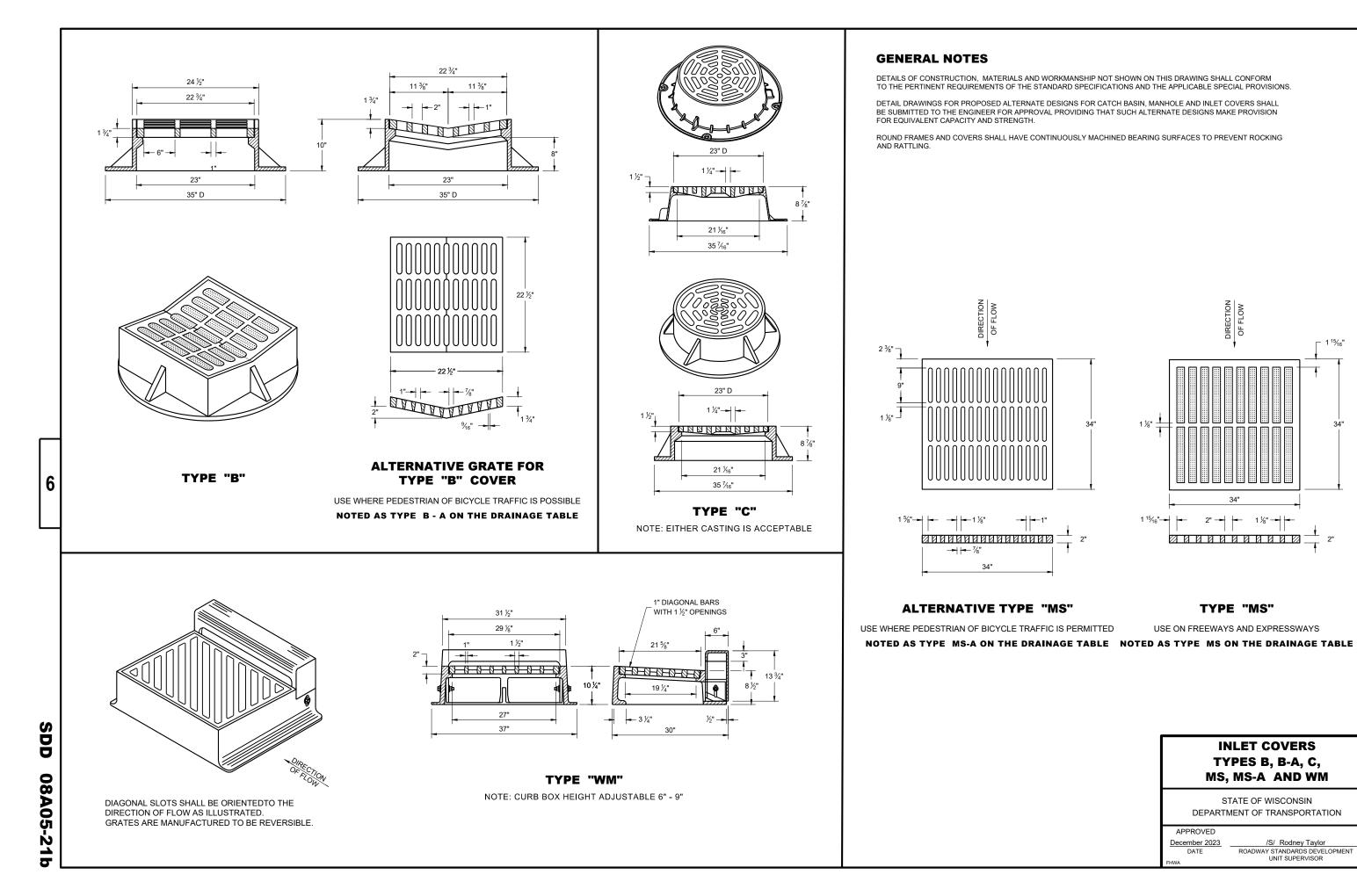
MAINTAINING BIRD DETERRENT SYSTEM										
999.2005.5										
CATEGORY	STATION	EACH								
0010	19+48	1								

PROJECT NO: 5767-00-73 HWY: CALEDONIA ROAD COUNTY: ROCK MISCELLANEOUS QUANTITIES SHEET:



Standard Detail Drawing List

08A05-21B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-21D	INLET COVERS TYPE V, V-B, & VV-B
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
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
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
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)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES

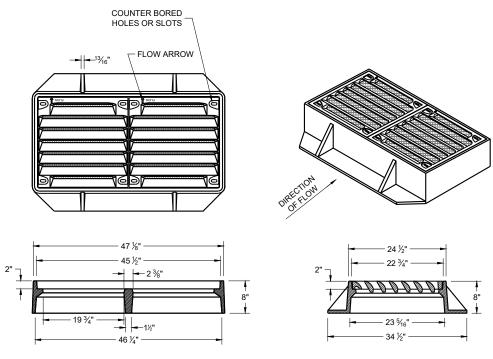


08A05-2

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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

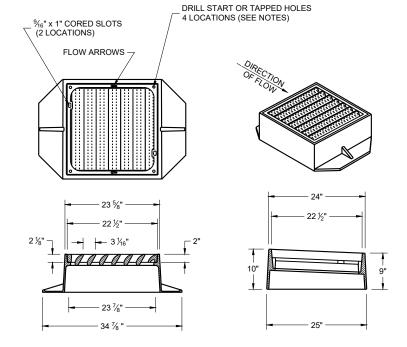


TYPE "VV-B"

ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER ALL DRILLING AND TAPPING GRATES AND FRAMES BY

CASTING MANUFACTURER

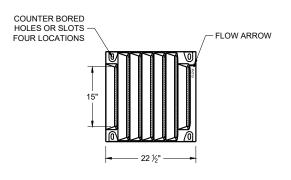
FRAME - CAST GRAY IRON ASTM A48 CLASS 35B %" DIA. $X\%_6$ " DRILL START IN 8 LOCATIONS GRATE - CAST GRAY IRON ASTM A-48, CLASS 35B



TYPE "V"

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER ALL DRILLING AND TAPPING GRATES AND FRAMES BY CASTING MANUFACTURER

TYPE V FRAME - CAST GRAY IRON ASTM A48 CLASS 40A ¾" DIA. X №" DRILL START IN 4 LOCATIONS GRATE - CAST GRAY IRON ASTM A-48, CLASS 35B



BOLT DOWN GRATE FOR TYPE "V" AND "VV-B" COVER

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER NOTED AS TYPE "V-B" OR "VV-B" (FOR DOUBLE GRATE) ON DRAINAGE TABLE

TAP $\c X_2^{m}$ -13 HOLES IN FOUR LOCATIONS PER GRATE IN FRAME TO BOLT GRATE(S).

FRAME - CAST GRAY IRON ASTM A48 CLASS 40A

GRATE - CAST DUCTILE IRON ASTM A536, 55+KSI YIELD BOLTS - ½" -13 STAINLESS STEEL BOLTS WITH WASHERS TORQUE BOLTS TO MANUFACTURER SPECIFICATION DO NOT OVERTIGHTEN.

INLET COVERS TYPES V, V-B, AND VV-B

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

December 2023 /S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

SDD 08A05-21 **Q**

3A05-2

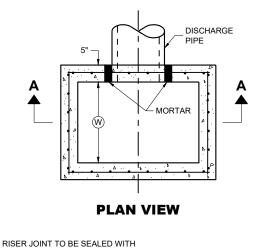
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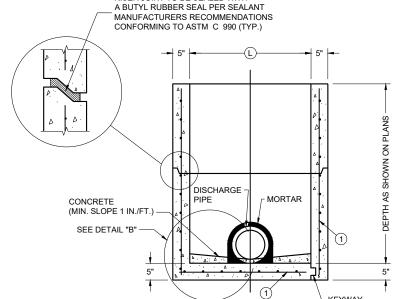
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08C07-03

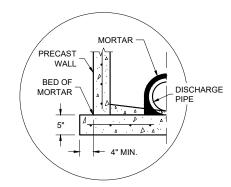




PRECAST REINFORCED
CONCRETE WITH
MONOLITHIC BASE

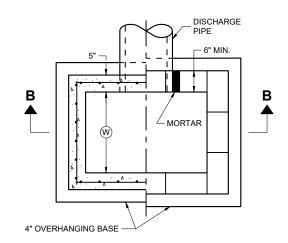
PRECAST REINFORCED
CONCRETE WITH
INTEGRAL BASE

SECTION A - A

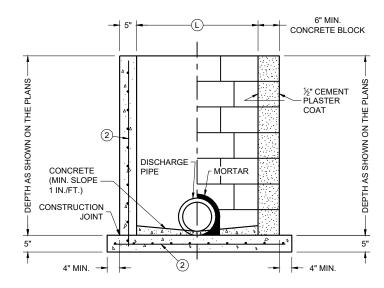


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "B"



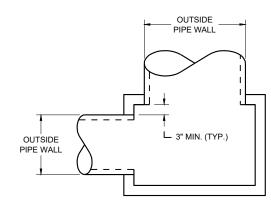
PLAN VIEW



CAST IN PLACE REINFORCED CONCRETE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE 1

SECTION B - B



DETAIL "A"

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2X3.5-FT

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" 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 043
- (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	INLET COVER TYPE									
		W (FT.)	(FT.)	ALL A'S	ALL B'S	BW	F	ALL H'S	S	Т	٧	WM
2 X 2-FT	2	2	Х	Х				Х				
2 X 2.5-FT	2	2.5			х			Х	х	Х	х	
2 X 3-FT	2	3					Х					
2.5 X 3-FT	2.5	3				Х						
2 X 3.5-FT	2	3.5										Х

PIPE MATRIX

	=				
CATCH BASIN	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES				
SIZE	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 2 X 3.5-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

UNIT SUPERVISOR

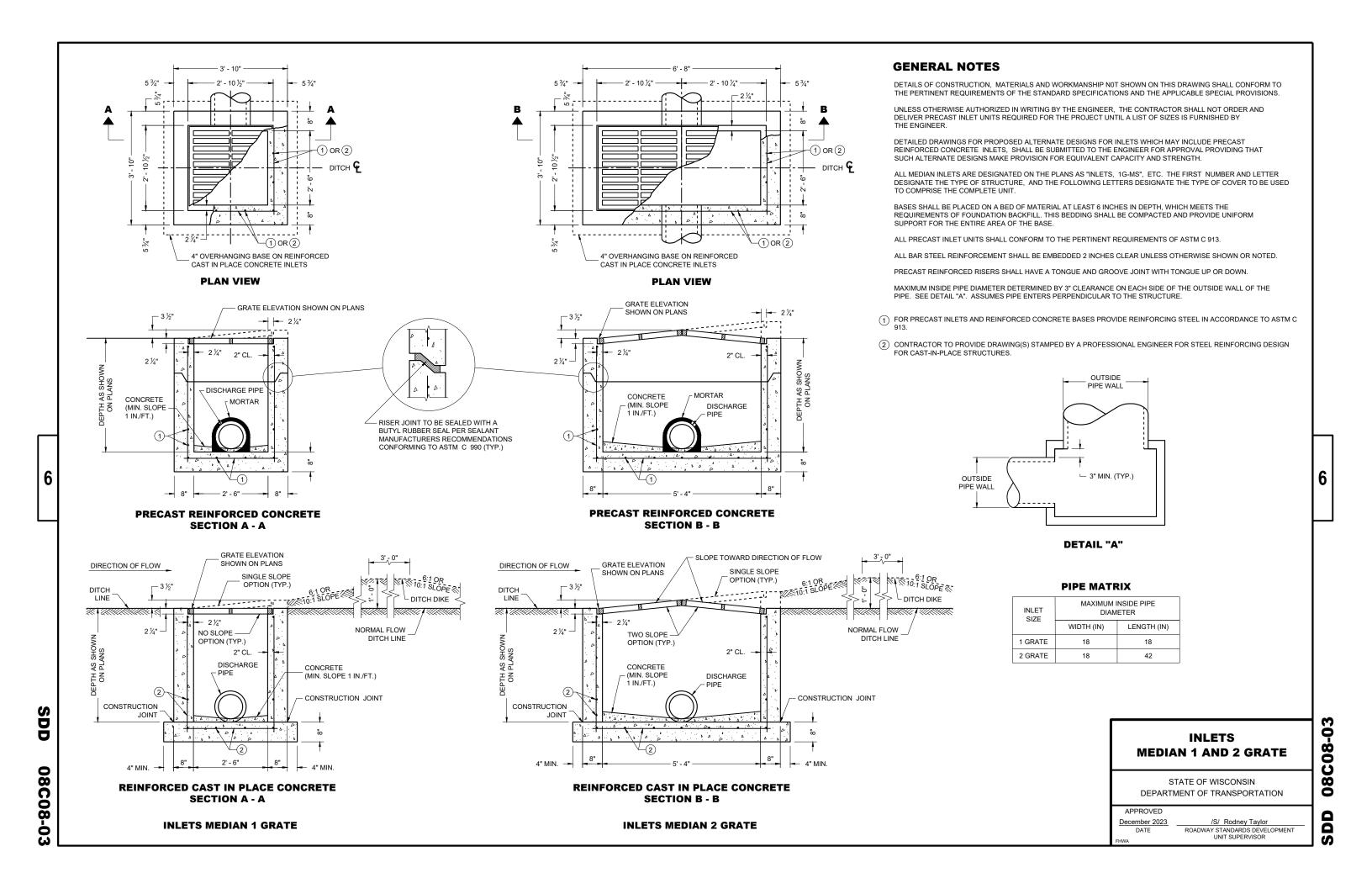
APPROVED

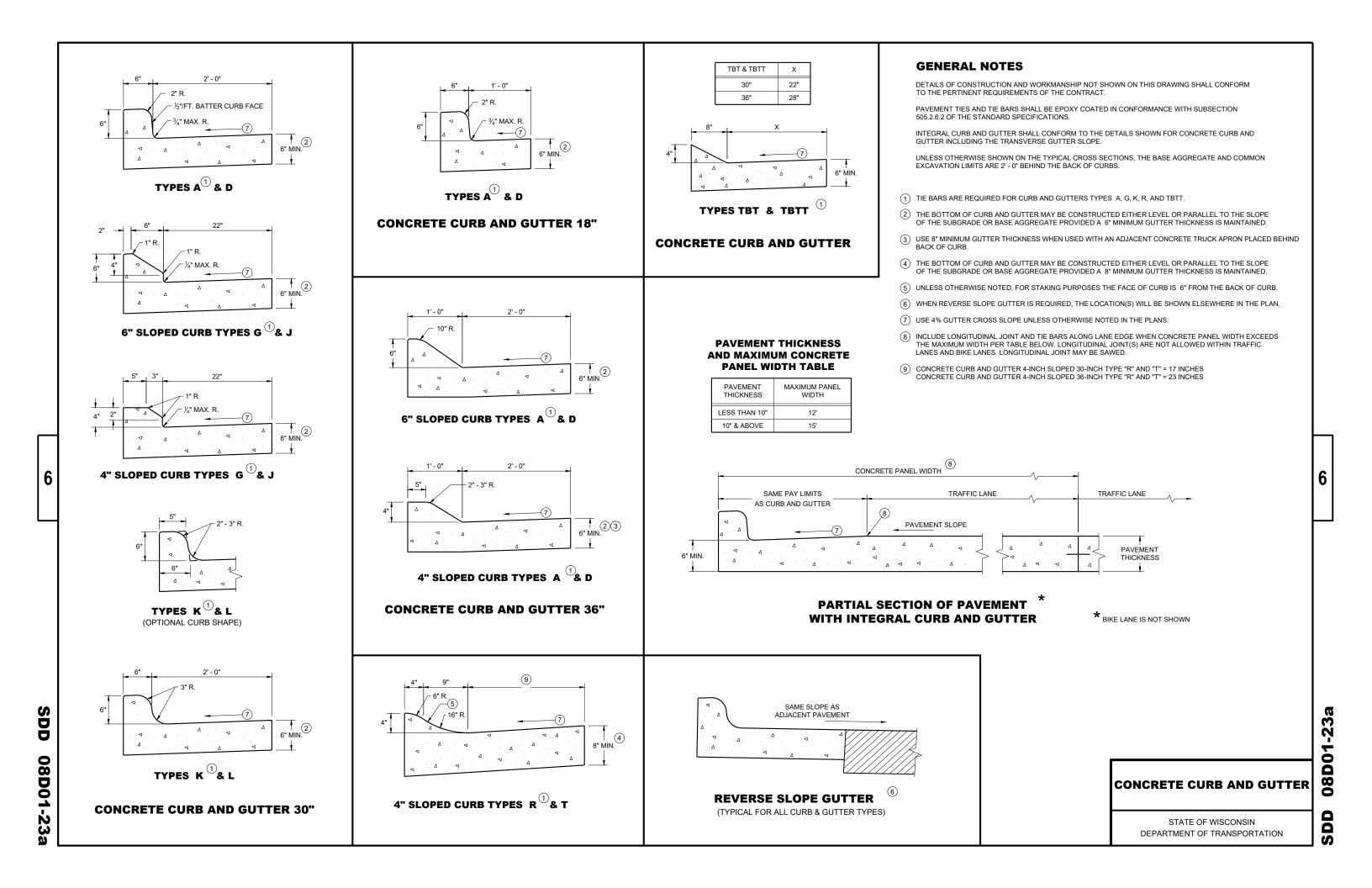
 December 2023
 /S/ Rodney Taylor

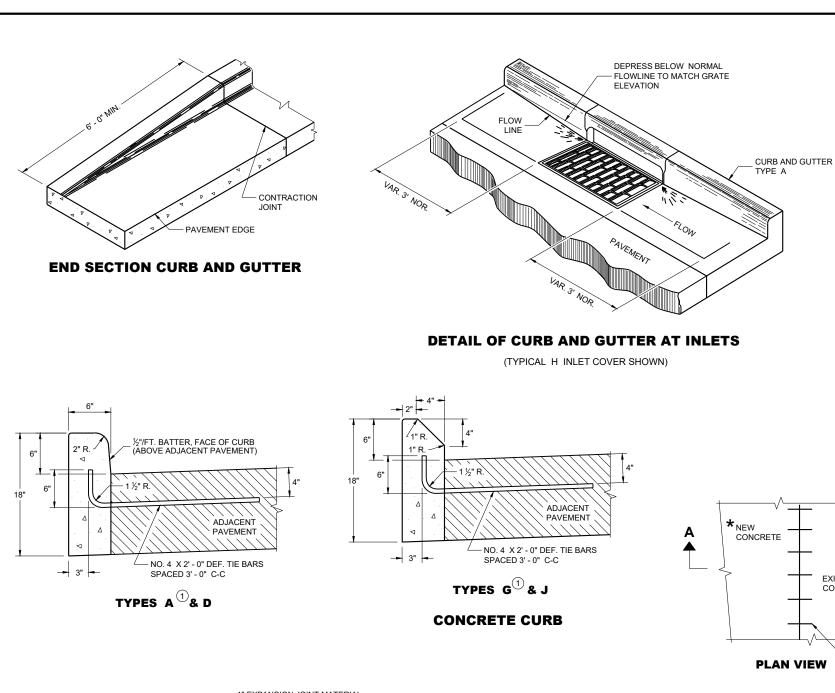
 DATE
 ROADWAY STANDARDS DEVELOPMENT

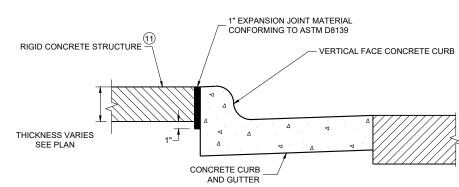
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DD 08C07-0









EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE 119

CONCRETE **EXISTING** CONCRETE * NEW CURB AND GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE. **PLAN VIEW** NO. 6 TIE BARS SPACED 2' - 6" C-C, INSTALLED PERPENDICULAR TO THE CONCRETE MAXIMUM DRILL HOLE SIZE IS 1/8" GREATER THAN TIE BAR DIAMETER 1/2 THICKNESS OF_ NEW CONCRETE **EXISTING**

TIE BARS DRILLED INTO EXISTING PAVEMENT

SECTION A - A

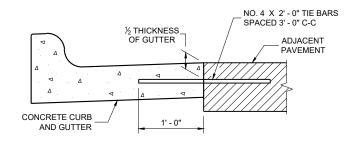
GENERAL NOTES

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

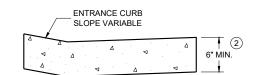
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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.
- (1) 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.



TYPICAL TIE BAR LOCATION



DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

SDD 08D01-23b

08D01-2

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.

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.



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 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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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.

- \bigcirc 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 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

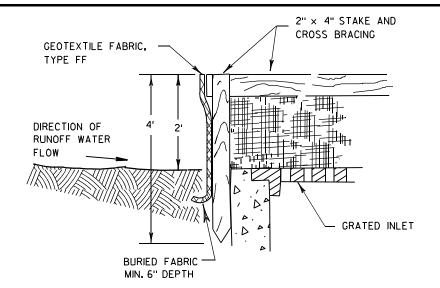
(WHEN REQUIRED BY THE ENGINEER)

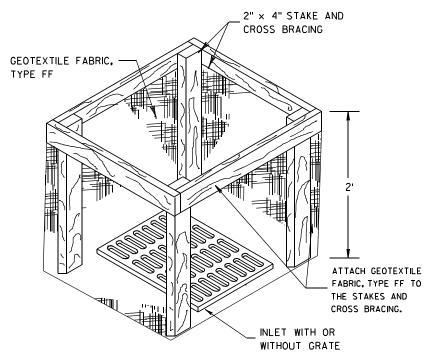


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INLET PROTECTION, TYPE A

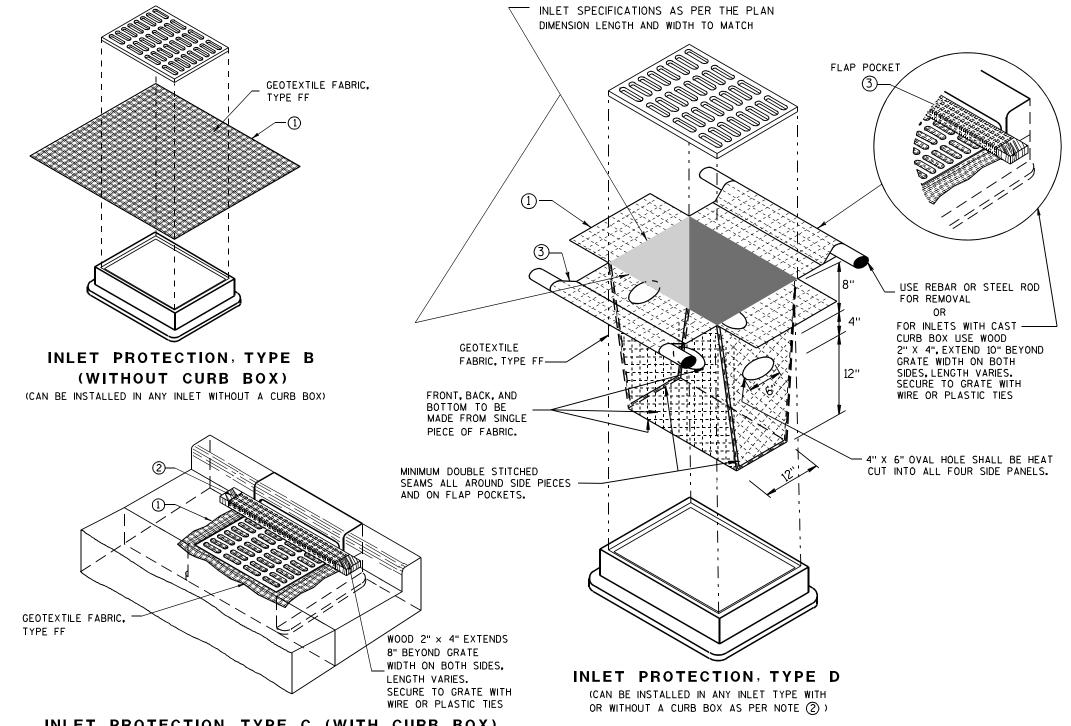
GENERAL NOTES

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

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.



INLET PROTECTION, TYPE C (WITH CURB BOX)

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

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

10/16/02

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END CORNER

1/16" DIA. HOLES FOR

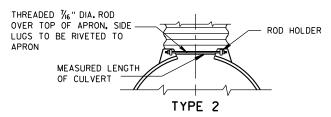
BOLTS OR RIVETS -

12" C-C MAX. SPACING

METAL APRON ENDWALLS											
PIPE	MIN. T	HICK.		DIMENSIONS (Inches)							
DIA. (IN.)	(Inch		A (±]")	B (MAX.)	H (±]")	L (±1 ½")	<u>1</u> ()	L 2	₩ (±2")	SLOPE	BODY
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	21/2+o 1	1 Pc.
18	.064	.060	8	10	6	31	15	281/4	36	$2\frac{1}{2}$ to 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	$2\frac{1}{2}$ to 1	1Pc.
24	.064	. 075	10	13	6	41	18	371/4	48	21/2+0 1	1Pc.
30	.079	. 075	12	16	8	51	18	521/4	60	2½+o 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	2½+o 1	2 Pc.
42	.109	. 105	16	22	11	69	24	75%	84	21/2+o 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ †o 1	3 Pc.
54	.109	. 105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 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	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	1½+0 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	ı	ı	150	1½+0 1	3 Pc.

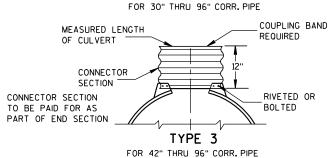
	REINFORCED CONCRETE APRON ENDWALLS											
PIPE			DIM	ENSIONS	(Inches)			APPROX.				
DIA.	T A		В	С	D	E	G	SLOPE				
12	2	4	24	48 1/8	721/8	24	2	3 to 1				
15	21/4	6	27	46	73	30	21/4	3 to 1				
18	$2\frac{1}{2}$	9	27	46	73	36	21/2	3 to 1				
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1				
24	3	91/2	431/2	30	731/2	48	3	3 to 1				
27	31/4	101/2	$49^{1}/_{2}$	24	731/2	54	31/4	3 to 1				
30	$3\frac{1}{2}$	12	54	193⁄4	731/2	60	31/2	3 to 1				
36	4	15	63	34¾	97¾	72	4	3 to 1				
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1				
48	5	24	72	26	98	84	5	3 to 1				
54	51/2		65	**************************************	98 ¹ /4- 100	90	51/2	2% to 1				
60	6	* ** 30-35	60	39	99	96	5	2 to 1				
66	61/2		* ** 72-78	* * * 21-27	99	102	51/2	2 to 1				
72	7	* ** 24-36	78	21	99	108	6	2 to 1				
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1				
84	8	36	901/2	21	1111/2	120	61/2	11/2+0 1				
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1				

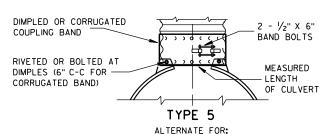
END SECTION CONNECTOR STRAP THREADED 76" DIA. ROD AROUND CULVERT & THROUGH CONNECTOR TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT



TYPE 1

FOR 12" THRU 24" CORR. PIPE





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

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.

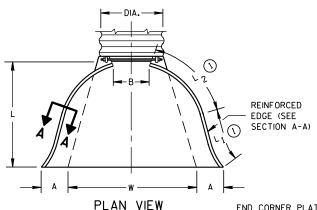
CONNECTION DETAILS

1" WIDE. 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION

*MINIMUM **MAXIMUM

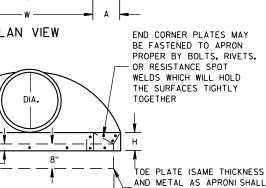
OPTIONAL

DESIGN



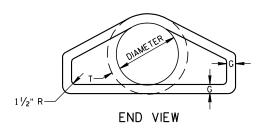
* EXCEPT CENTER PANEL

SEE GENERAL NOTES

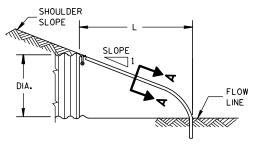


BE FURNISHED WHEN CALLED

FOR ON THE PLANS

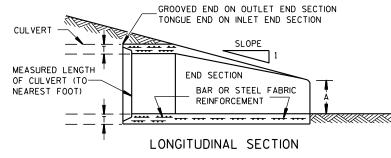


PLAN

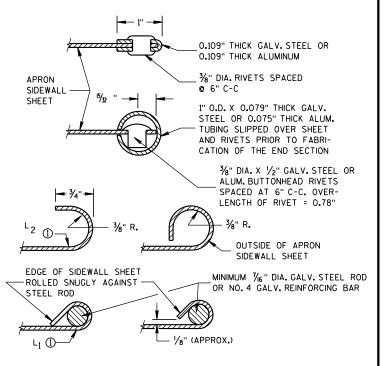


END VIEW





CONCRETE ENDWALLS



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

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.

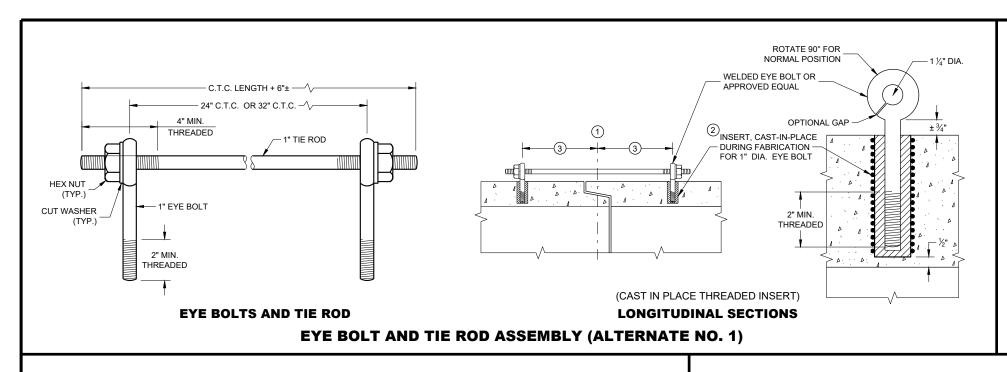
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER



GENERAL NOTES

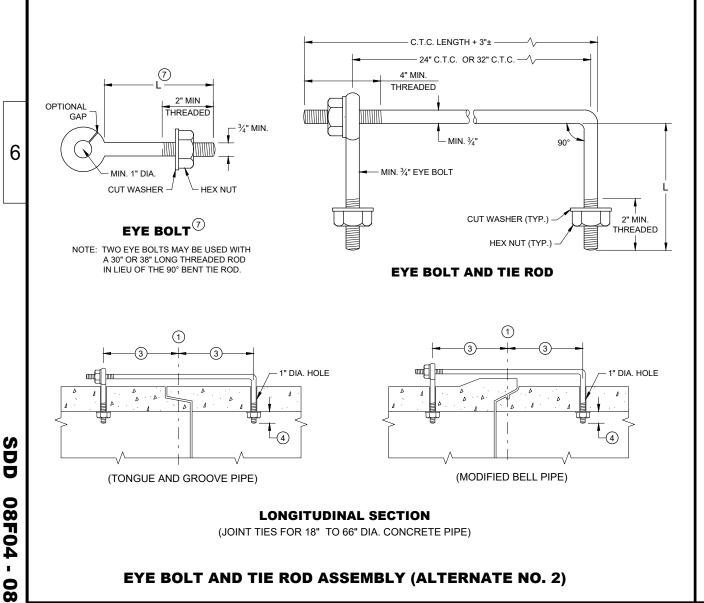
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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. LINESS 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

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.

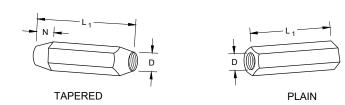
- 1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- 2 THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
- (3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.
- 4 BOLT PROJECTION 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.



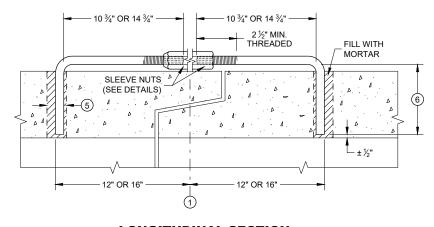
TIE ROD DIAMETER DIAMETER 5 12 - 60 5

ADJUSTABLE TIE ROD TABLE

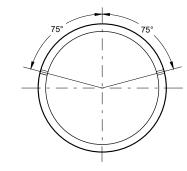
DIMENSIONS SHOWN ARE IN INCHES



RIGHT AND LEFT THREADS **SLEEVE NUTS**

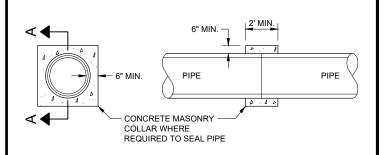


LONGITUDINAL SECTION ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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 /S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT
ENGINEER November 2021 DATE

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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



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.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/IO /S/ Scot Becker

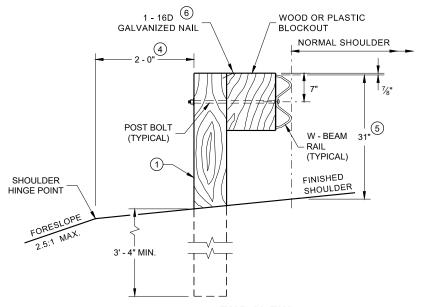
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

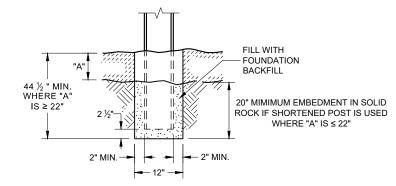
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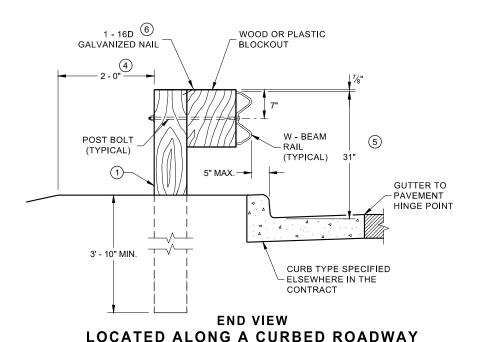
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES 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).
- $\fill \ensuremath{\texttt{5}}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS \$\pm1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " 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.
- \bigcirc TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

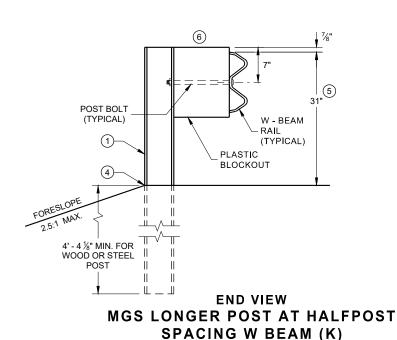


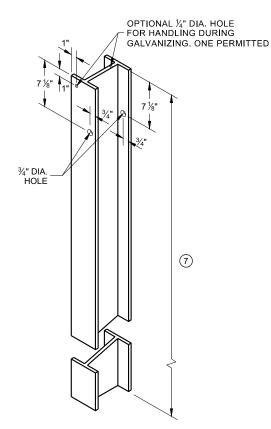
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



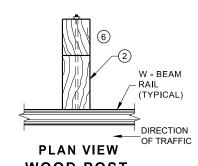
SETTING STEEL OR WOOD POST IN ROCK



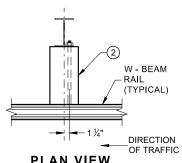




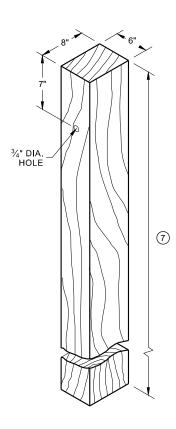
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



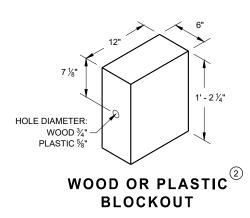
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

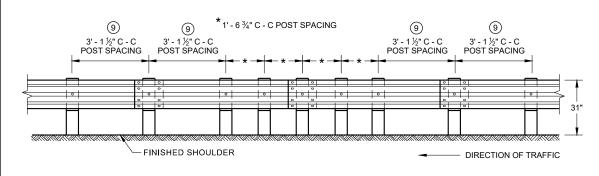
POST SPACING

DIRECTION OF TRAFFIC

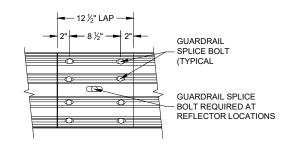
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW
QUARTER POST SPACING (QS)



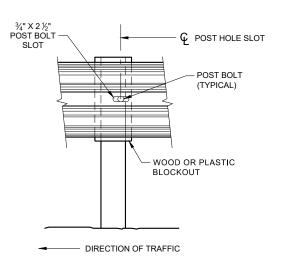
FRONT VIEW
MID-SPAN BEAM SPLICE

GENERAL NOTES

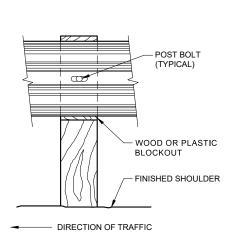
- 8 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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

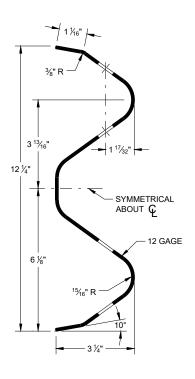
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



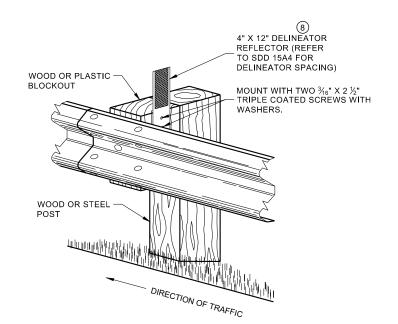
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

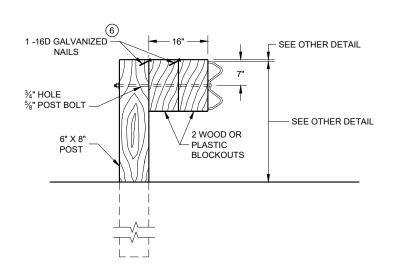
07b

SDD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

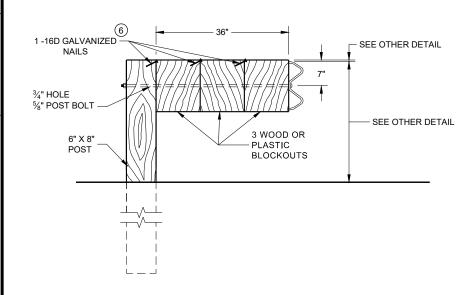
6

6



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.



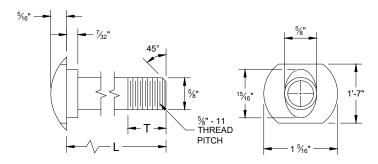
DETAIL FOR 36" BLOCKOUT DEPTH

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.

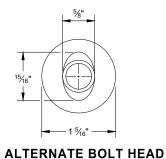
NOTE:

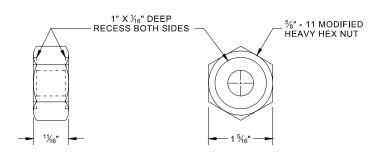
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

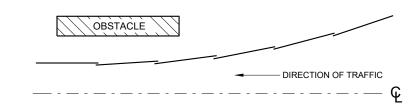
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



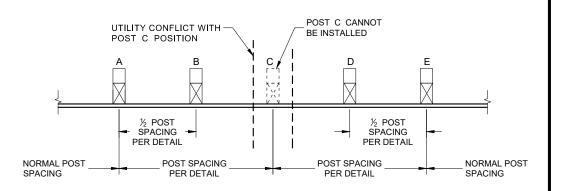


POST BOLT, SPLICE BOLT **AND RECESS NUT**

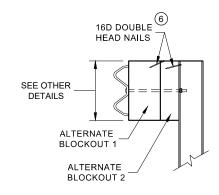
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

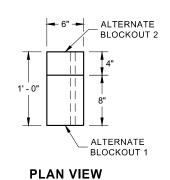


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

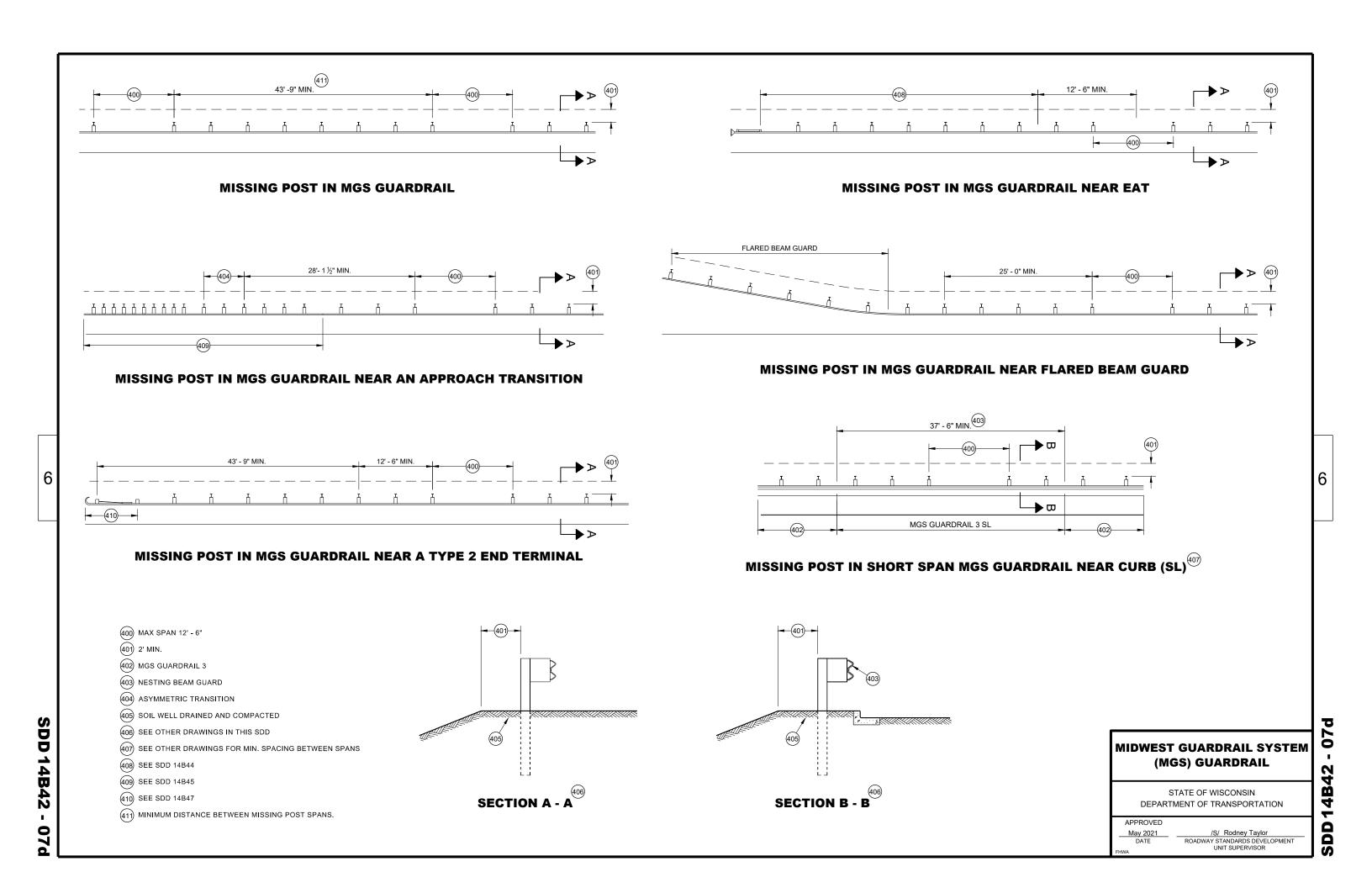
ALTERNATE WOOD BLOCKOUT DETAIL

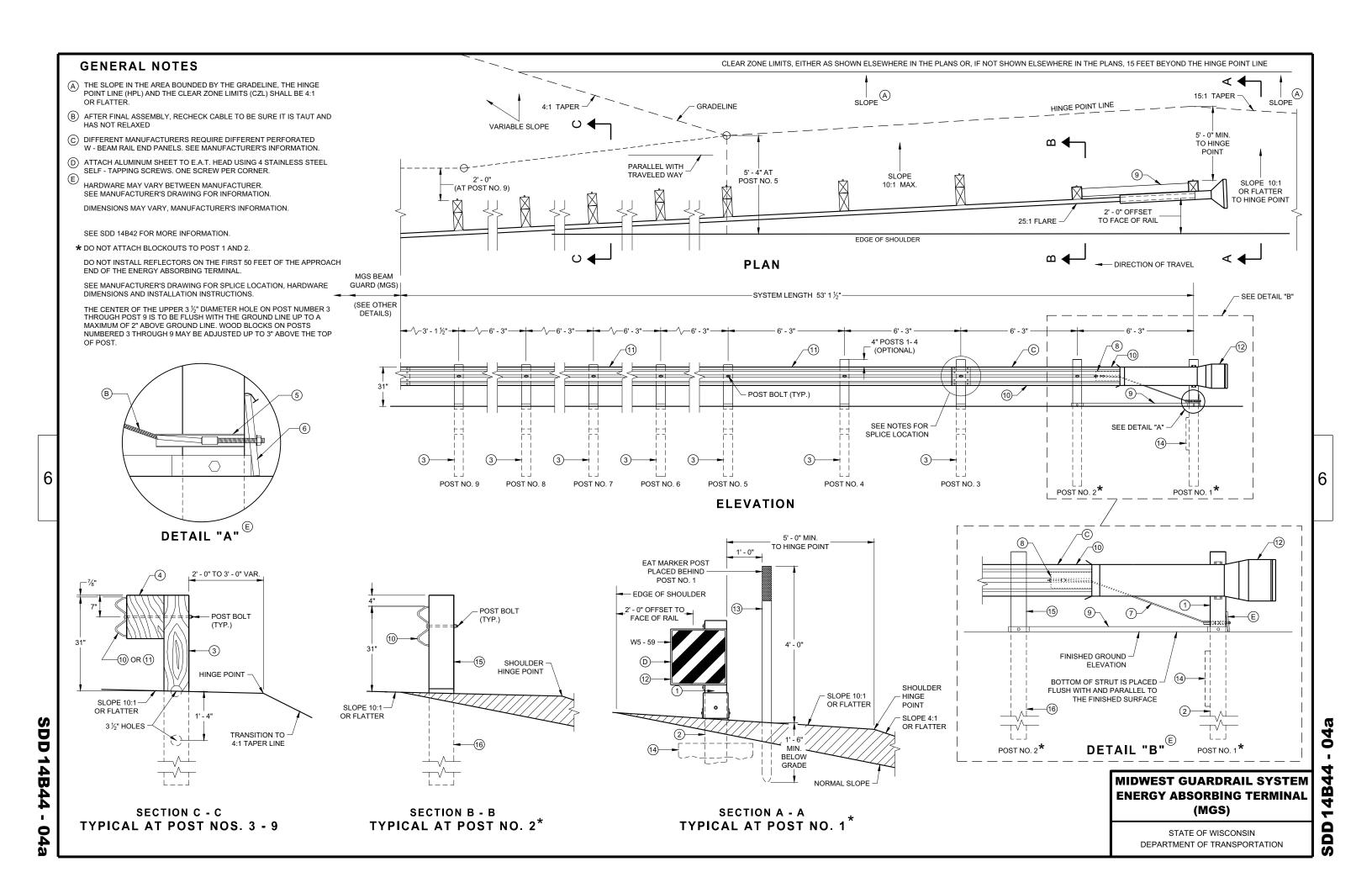
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

07

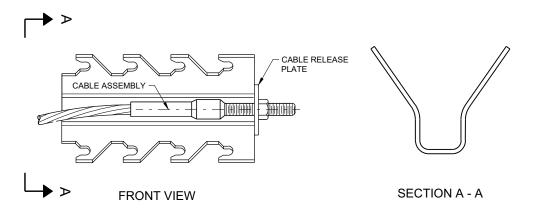
SD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

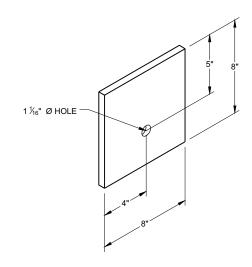




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX ^{(9) (E)}



BEARING PLATE

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

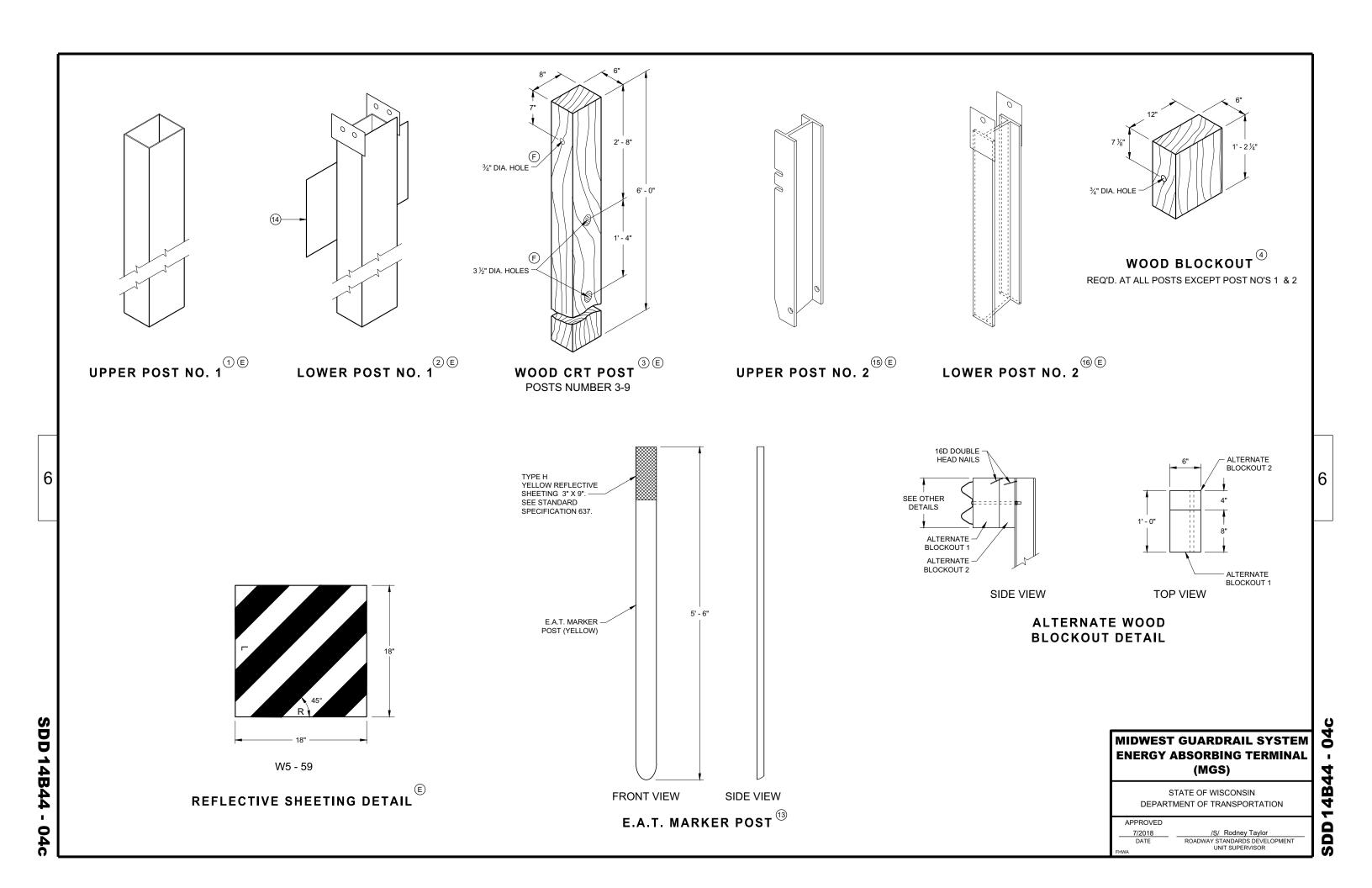
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

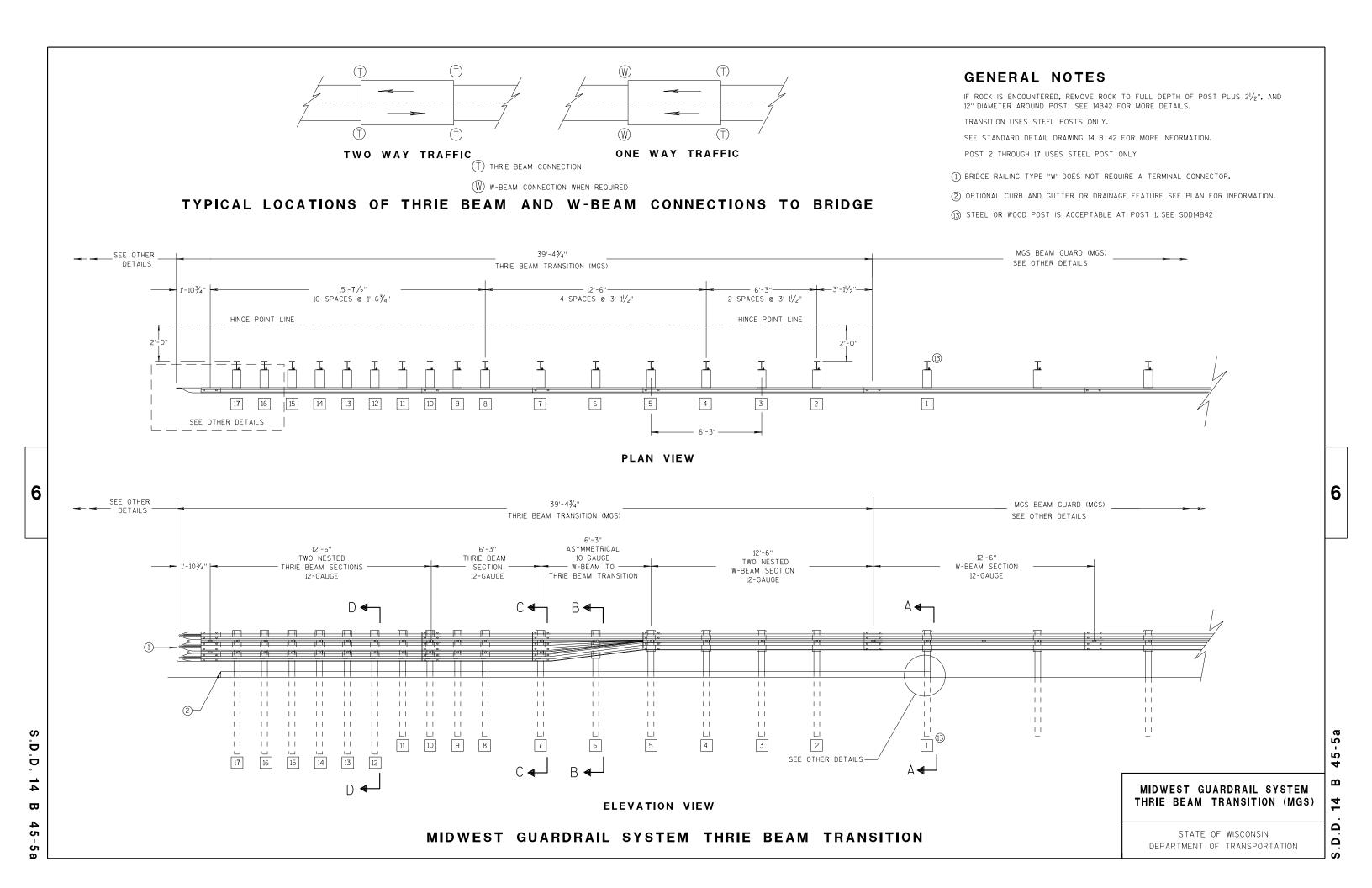
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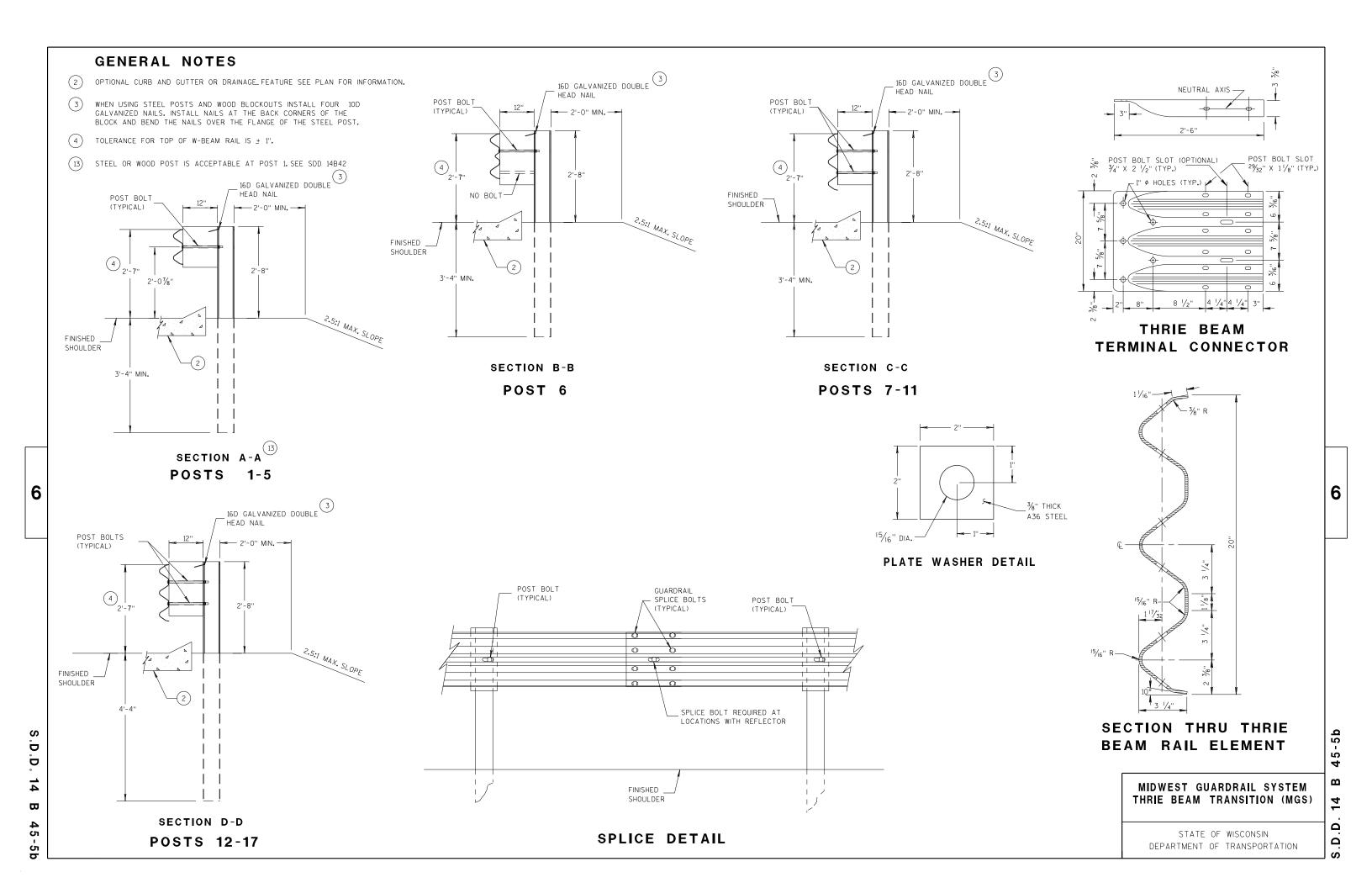
O

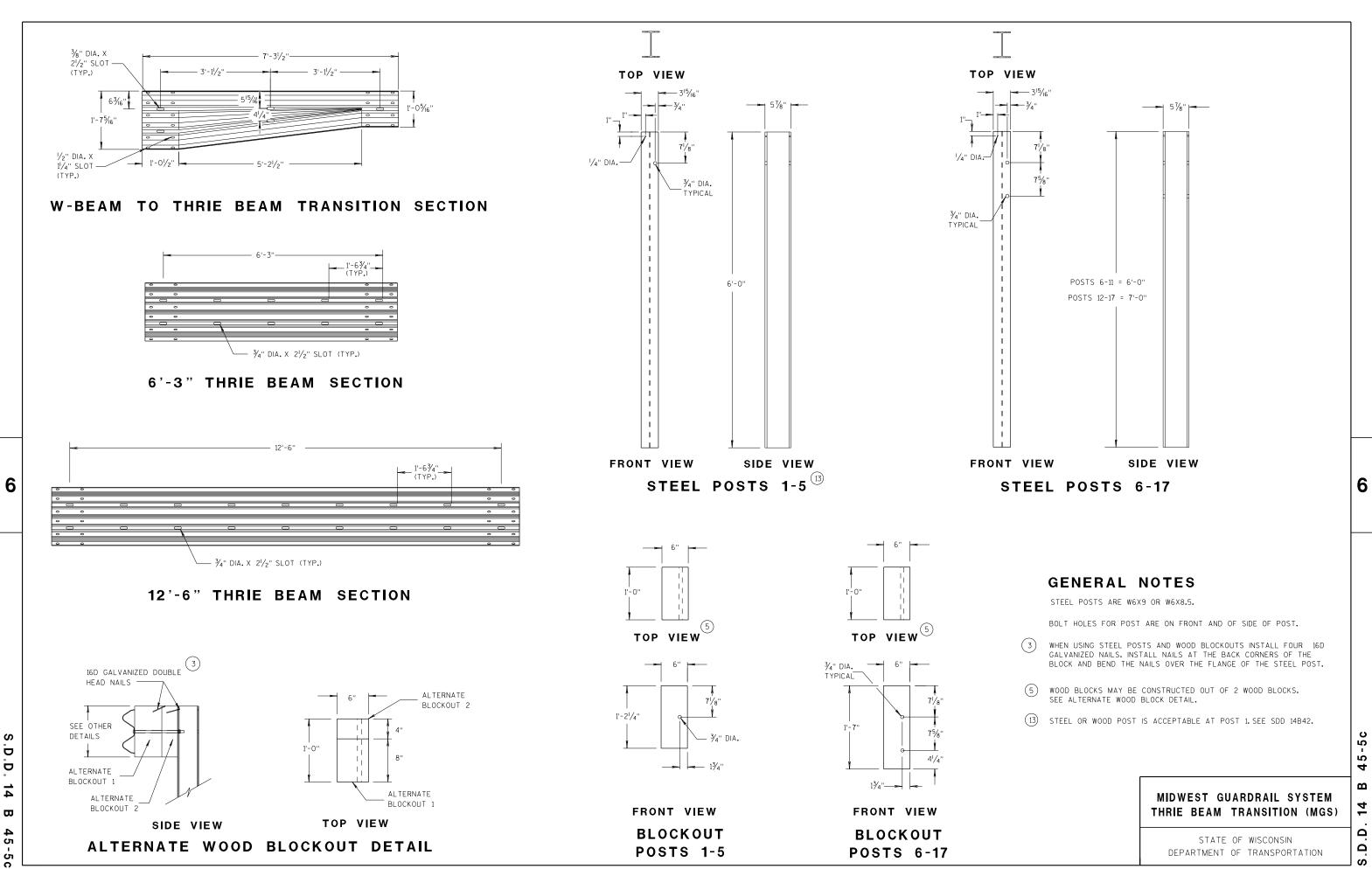
SDD

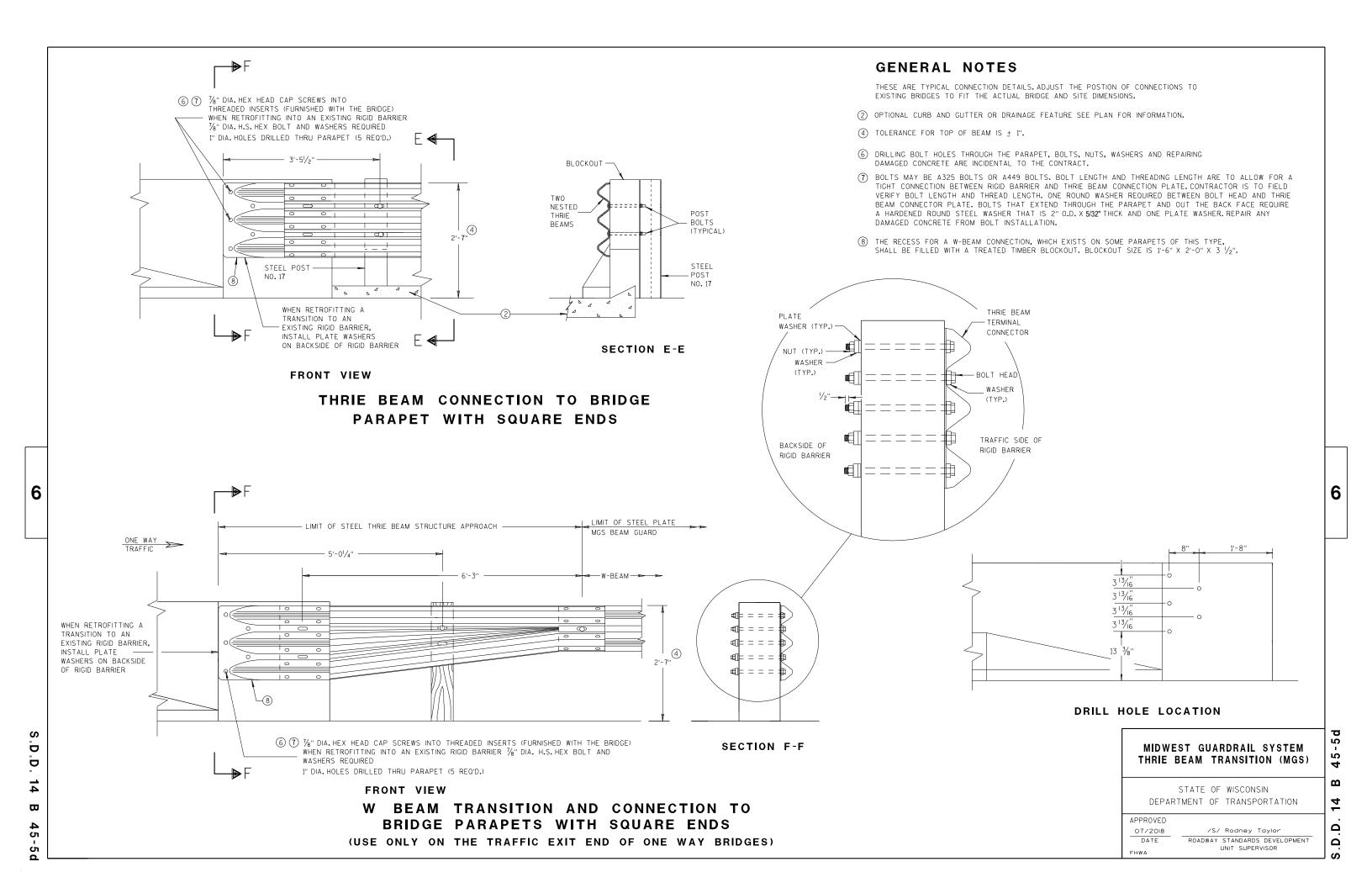
SDD 14B44 - 04

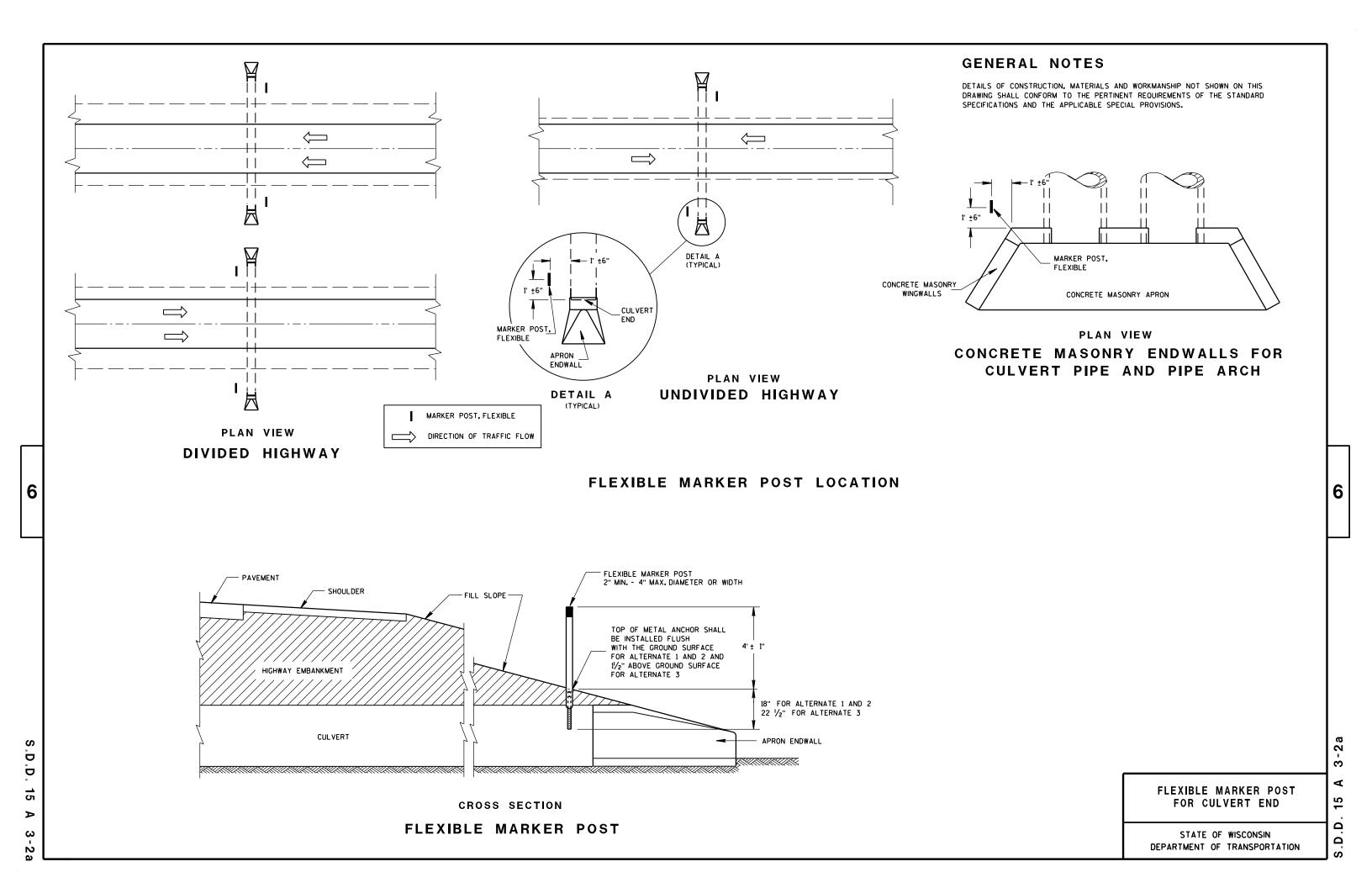


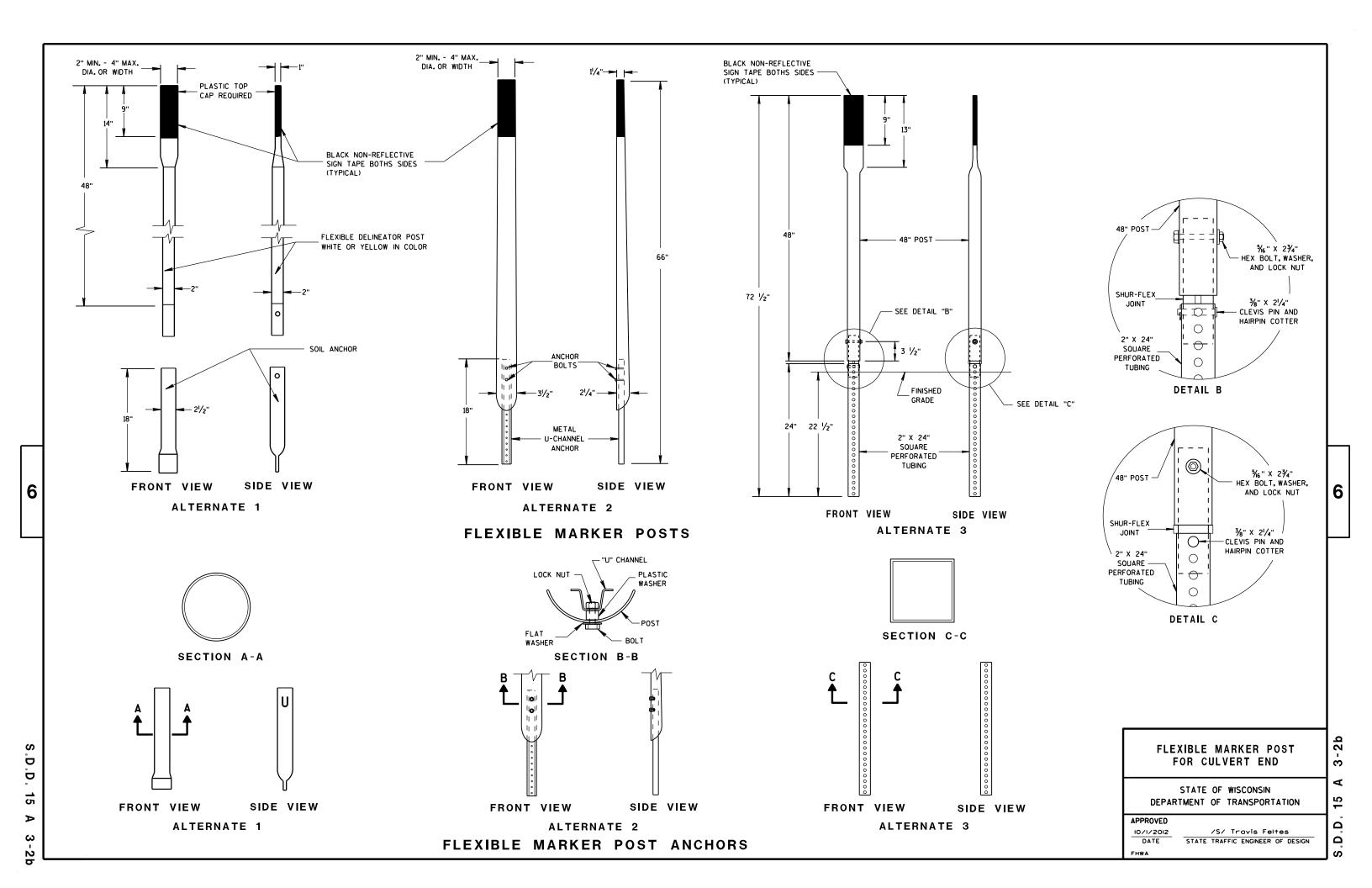
















DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



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

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"

- 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**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> 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
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

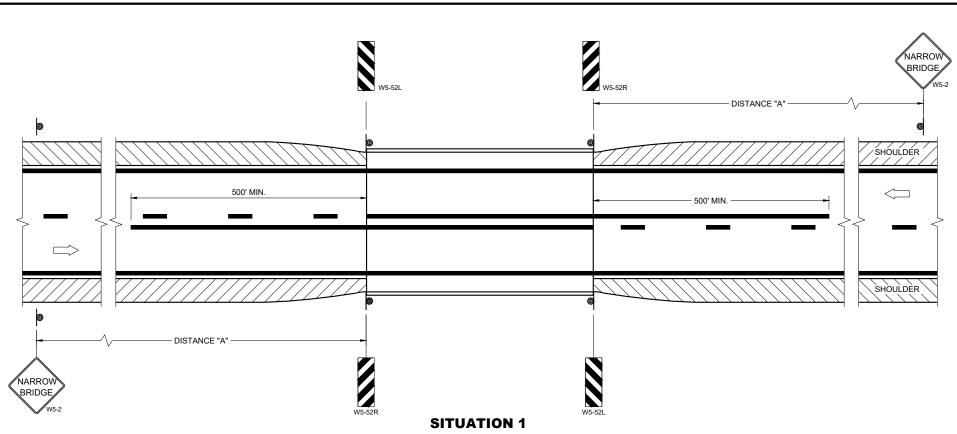
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

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SDD 15C06-12



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

OR SHOULDER SHOULDER WS-52R WS-52L

SITUATION 2

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

SDD

15C06-12

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	/S/ Jeannie Silver
DATE	Statewide Pavement Marking Engineer
FHWA	





RURAL AREA (See Note 2)



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" (\pm) 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" (\pm) 3".

- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) 3" or 6'-3" (\pm) 3" depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{-}$) 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'' (\pm) 3'' or as directd by the Engineer.

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

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.

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. __A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



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



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42





2'Min - 4'Max (See Note 6)



	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRE)	
	L	E
***	Greater than 48" Less than 60"	12''
	60" to 108"	L/5

HWY:

SIGN SHAPE OTHER THAN	DIAMOND
(THREE POSTS REQUIR	RED)
L	Е
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'' (\pm) 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.
- $\times \times \times$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CUEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr_stdplate\A44.dgn

PROJECT NO:

COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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 - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

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 - 3/32 " (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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " 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 Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

PROJECT NO:



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

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 $\frac{3}{4}$ " 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

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PROJECT NO:

VIEW FROM TOP

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, $\frac{3}{4}$ " 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 $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $\frac{2}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Manher R

APPROVED

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

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

SIGN

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

NOTES

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message – Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

C —		
	G F H B F G G	
R	l1-2B	

SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
2M	48	30	1 1/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 1/8																10.0
3	48	30	1 1/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 1/8																10.0
4	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
5	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 2/5/24 PLATE NO. R11-2B.3

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R112B.dgn

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:20

PLOT BY : mscj9h

WISDOT/CADDS SHEET 42



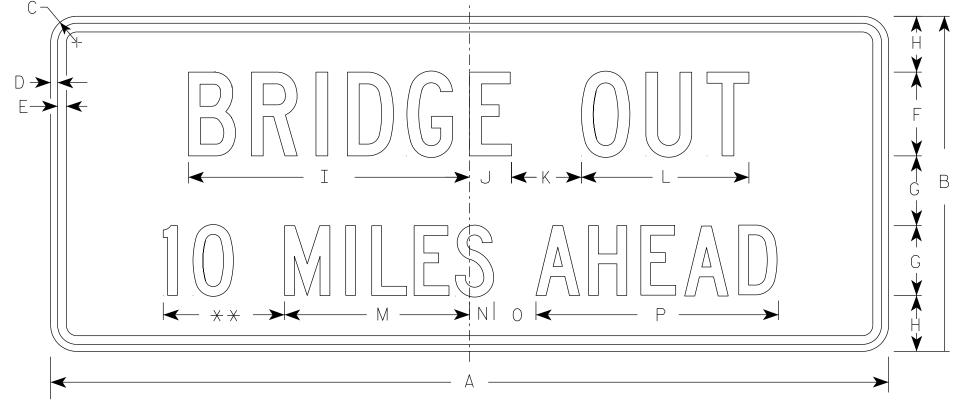
- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White

Message – Black

3. Message Series - C

- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3C

** See Note 5

SIZE Α В D Q R U 36 15 1 1/2 1/25/8 2 1/2 13 1/4 2 1/4 3 1 1/2 2 10 3/4 7 1/8 3.75 1 1/8 5/8 13 1/4 1 3/4 $17 \frac{3}{8}$ 11 1/8 10.0 60 24 1/2 5 20 1/8 3 5 12 2M 1 1/8 5/8 60 24 13 1/4 1 3/4 $17 \frac{3}{8}$ 1/2 20 1/8 3 5 12 $11 \frac{7}{8}$ 10.0 3 4

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Lauch
For State Traffic Engineer

DATE <u>2/5/24</u>

PLATE NO. R11-3C.4

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113C.dgn

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:52

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

Ε

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow Message - Black

3. W1-3L is the same as W1-3R except the arrow is reversed along the vertical centerline.

A K K M M M M
H H
A E D
W1-3R

SIZE Α С 0 1 1/2 3/8 1/2 3 1/2 8 3/8 1 1/8 11 ⁵/₈ 2 3/4 1 1/8 2 1/2 5/8 7/8 3 4.0 24 7 4 5 1/4 4 1/2 12 1/2 1 5/8 17 3/8 10 1/2 4 1/4 3 5/8 5/8 1 5/8 1 1/4 36 2 1/4 9.0 5 1/4 4 1/2 12 1/2 1 5/8 17 3/8 10 1/2 4 1/4 1 5/8 3 5/8 1 1/4 36 2 1/4 9.0 5/8 5 1/4 4 1/2 12 1/2 1 5/8 17 3/8 10 1/2 4 1/4 3 5/8 1 36 2 1/4 1 1/4 9.0 5/8 3/4 5 1/4 12 1/2 1 5/8 17 3/8 10 1/2 4 1/4 1 5/8 3 % 1 $2^{1/4}$ $1^{-1}/_{4}$ 9.0 36 2 1/8 4 7/8 1 1/4 1 5/8 3/4 16 \(\frac{5}{8} \) 2 \(\frac{1}{4} \) 23 \(\frac{1}{4} \) 14 \(5 \) \(\frac{5}{8} \) 8 48 3

COUNTY:

STANDARD SIGN W1 - 3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED M For State Traffic Engineer

DATE 3/23/2023 PLATE NO. W1-3.9 SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W13.dgn

PROJECT NO:

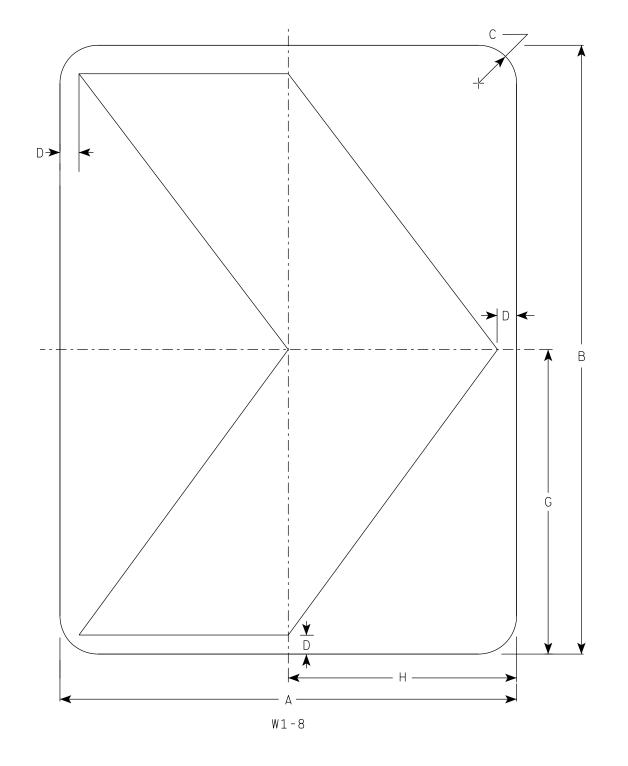
PLOT DATE: 30-OCT 2023 9:16

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plo+scale.....\$\$ WISDOT/CADDS SHEET 42

HWY:



NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow

Message - Black

SIZE	А	В	С	D	Е	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/2	1/2			9	6																			1.5
25	18	24	1 1/2	3/4			12	9																			3.0
2M	18	24	1 1/2	3/4			12	9																			3.0
3	24	30	1 1/2	1			15	12																			5.0
4	30	36	1 1/8	1 1/4			18	15																			7.5
5	36	48	1 1/8	1 1/2			24	18																			12.0

STANDARD SIGN W1-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew

For State Traffic Engineer

DATE <u>5/11/2023</u> PLATE NO. <u>W1-8.7</u>

SHEET NO:

WISDOT/CADDS SHEET 42

PLOT DATE: 30-OCT 2023 10:26

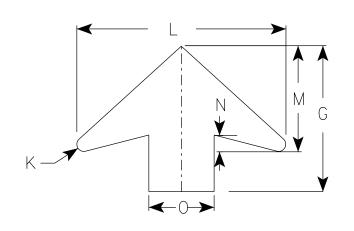
PROJECT NO:

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow

Arrow & Border - Black

Stop Symbol - White Border on Red Background



ARROW DETAIL

SIZE	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	X	Υ	Z	Area sq. ft.
1	30		1 1/8	1/2	5/8	6 1/4	11 1/4	2 1/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
25	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
3	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		3	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	7/8	25 %	13	2	8												16.0
5	48		3	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	7/8	25 %	13	2	8												16.0

DATE 8/17/2023 PLATE NO. W3-1.13 Ε SHEET NO:

For State Traffic Engineer

STANDARD SIGN

WISCONSIN DEPT OF TRANSPORTATION

W3-1

FILE NAME : C:\CAEfiles\Project\tr_stdplate\W31.dgn

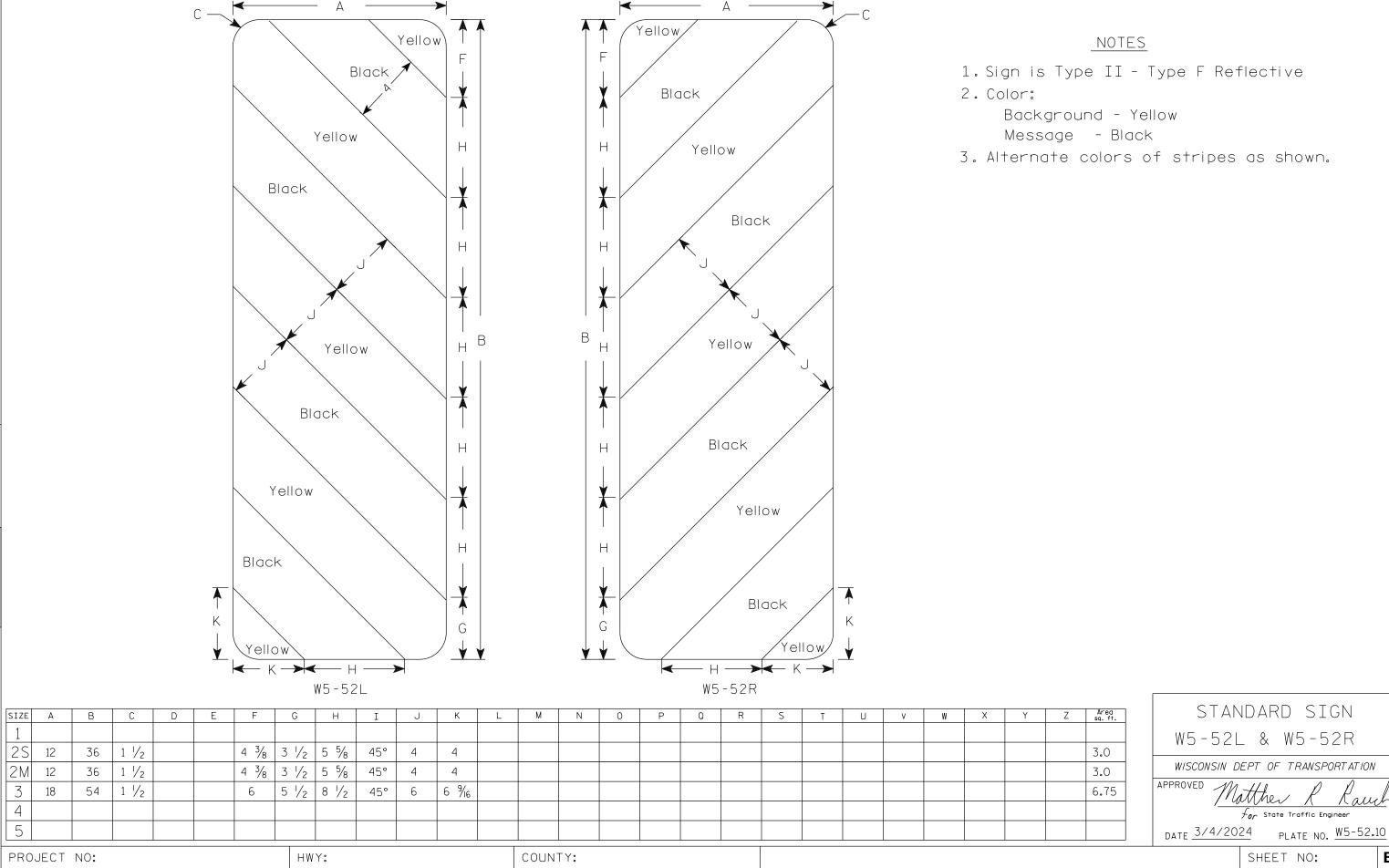
PROJECT NO:

PLOT DATE: 17-AUG 2023 2:30

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

W3 - 1



PLOT DATE: 4-MARCH 2024 11:57 PLOT NAME : PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42 PLOT BY : dotc4c

NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow Message – Black

3. Message Series - D

E D C C
W7-1

SIZE	А	В	C	l D	l E	+	G	Н	I	J	K	L	M	N	0	l P	Q	l K	5	T	U	V	W	X	Y	Z	sq. ft.
	24		1 1/2	3/8	3/8	5	4		8 3/4																		4.0
25	30		1 1/8	1/2	5/8	6	5		11																		6.25
2M	36		2 1/4	5/8	3/4	7 1/4	6		13 1/4																		9.0
3	36		2 1/4	5/8	3/4	7 1/4	6		13 1/4																		9.0
4	36		2 1/4	5/8	3/4	7 1/4	6		13 1/4																		9.0
5	48		3	3/4	1	9 3/4	8		17 1/2																		16.0
PRO	JECT	NO:						HWY:					СО	UNTY	•												

WISCONSIN DEPT OF TRANSPORTATION APPROVED Matther

SHEET NO:

STANDARD SIGN

W7 - 1

 $f_{\it or}$ State Traffic Engineer DATE 9/6/2023 PLATE NO. W7-1.14

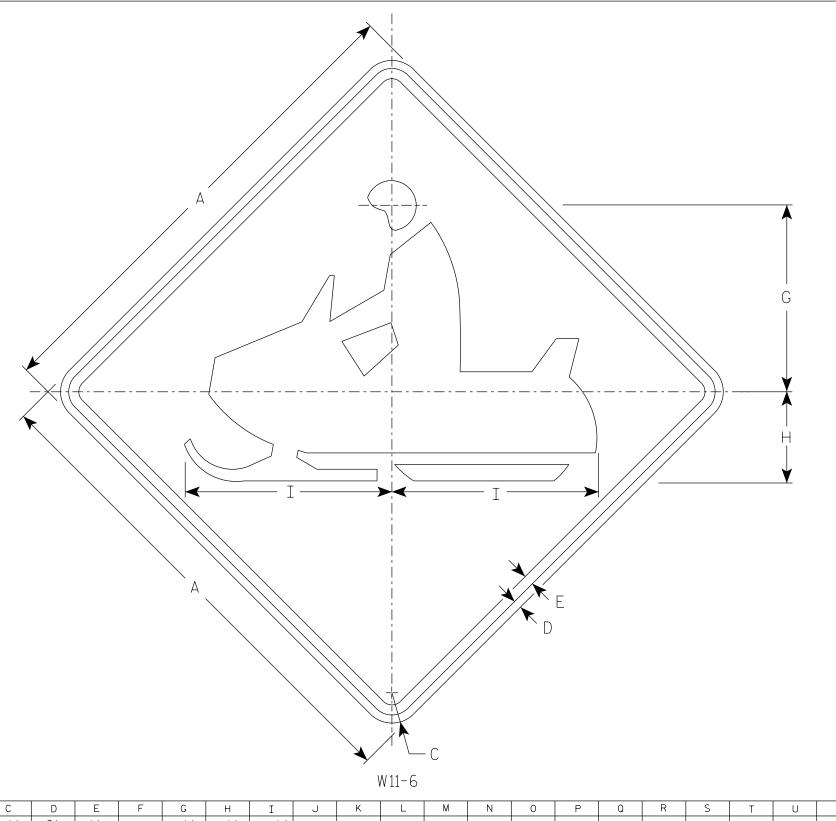
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W71.dgn

PLOT DATE: 6-SEPT 2023 9:17

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow Message – Black

SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2		9 1/2	4 1/2	10 1/4																		4.0
25	30		1 1/8	1/2	5/8		11 1/2	5 %	12 3/4																		6.25
2M	30		1 1/8	1/2	5/8		11 1/2	5 %	12 3/4																		6.25
3	36		2 1/4	5/8	3/4		14 1/8	6 3/4	15 1/4																		9.0
4	48		3	3/4	1		19	9	20 1/2																		16.0
5																											

COUNTY:

STANDARD SIGN W11-6

WISCONSIN DEPT OF TRANSPORTATION

DATE 11/15/2023 PLATE NO. W11-6.9

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W116.dgn

PROJECT NO:

PLOT DATE: 15-NOV 2023 8:45

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

HWY:



- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message – Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

W20-3D
W20-3C
W20-3B
S Z Y W20-3G

A N
ED
W20-3A

HWY:

->	← W - ;	≻ 	 	— 0 —	→				
R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
2 1/2	1 1/8	5 %	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
3 3/8	2 5/8	7 1/2	10	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0
z 3/	2 5/	7 1/	10 5/	1 7/	C	4 5/	14 3/	2 3/	10.0

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	V	W	X	Y Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 1/8	12 1/2	11	9	6	10 1/8	2 1/2	1 1/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4 1 3/4	9.0
25	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 ¾	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 ¾	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0

COUNTY:

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

 f_{or} State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN

PROJECT NO:

PLOT DATE: 10-JAN 2024 12:02

PLOT BY : dotc4c

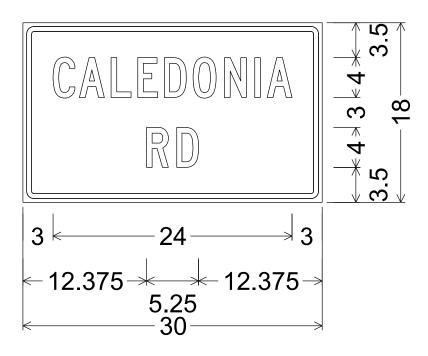
PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

- 1. Fixed Message Sign Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

3. Message Series - C



1.125" Radius, 0.500" Border, 0.375" Indent

SPECIAL 1 30" X 18"

PROJECT NO:5767-00-73

HWY: CALEDONIA ROAD

COUNTY: ROCK

TEMPORARY SIGNING

SHEET NO:

HEET NO: E

PLOT DATE: 20-AUG 2024 2:22 PLOT BY: mscj9h PLOT NAME: PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

HAZARD - BRIDGE WORK AHEAD

36'' X 18''

NOTES:

- 1. TRAFFIC CONTROL SIGNS FIXED MESSAGE TYPE F REFLECTIVE SHEETING

BACKGROUND - ORANGE

- MESSAGE BLACK 3. MESSAGE SERIES - C
- 4. LETTER HEIGHT 3 INCHES

PROJECT NO: 5767-00-73 HWY: CALEDONIA ROAD

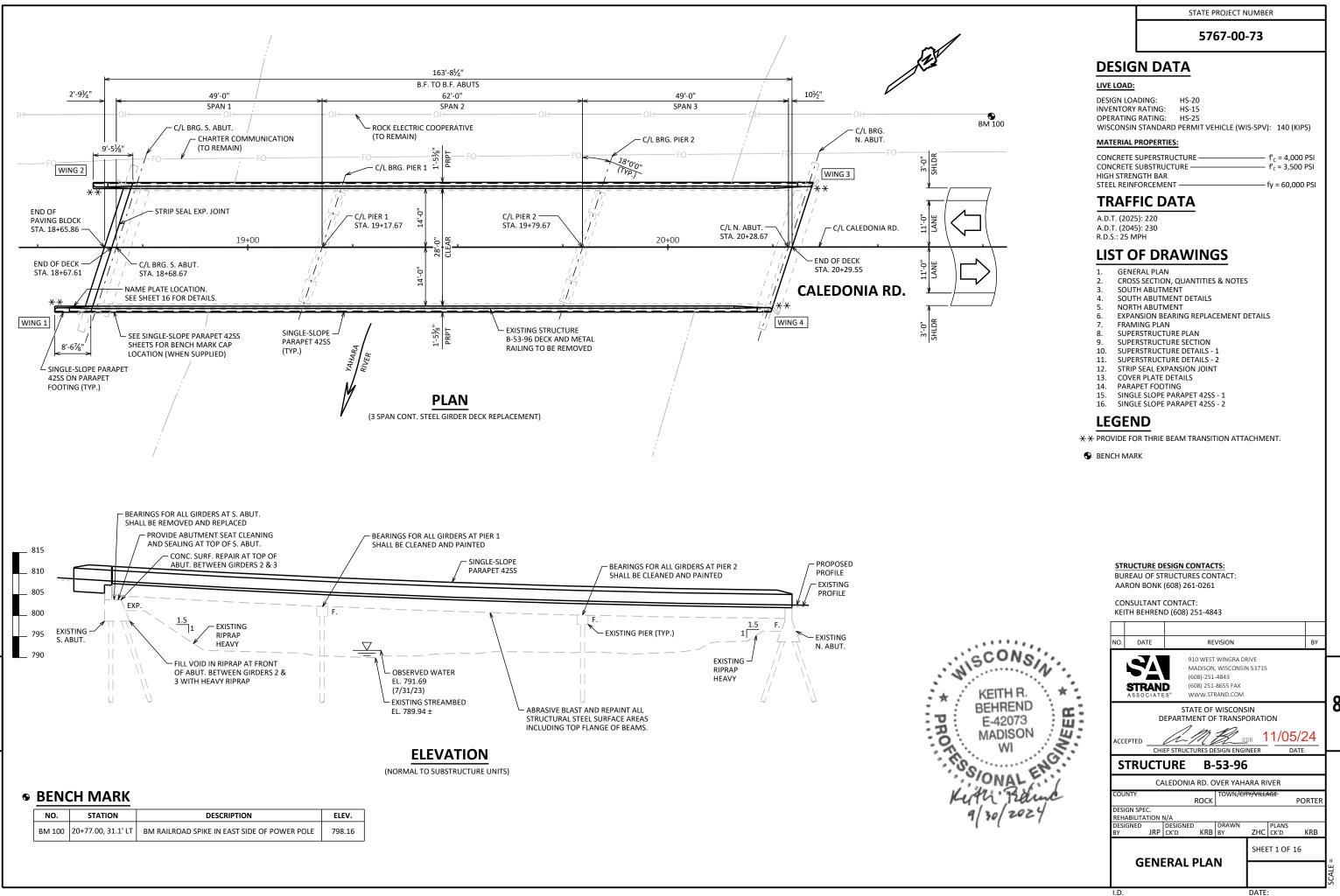
COUNTY: ROCK

TEMPORARY SIGNING

SHEET

E

FILE NAME : S:\MAD\1200--1299\1288\001\DRAWING\$\CAD\CIVIL 3D\SHEETSPLAN\070101-SD.DWG LAYOUT NAME - 070101_sd PLOT SCALE : 1 IN:100 FT PLOT DATE : 10/15/2024 11:52 AM PLOT BY: ROSENTHAL, BRIAN PLOT NAME : WISDOT/CADDS SHEET



(LOOKING NORTH)

LEGEND

- ¾" V-GROOVE. EXTEND TO 2'-0" FROM FRONT FACE OF SOUTH ABUTMENT AND 6" FROM FRONT FACE OF NORTH ABUTMENT
- # INDICATES GIRDER NUMBER.
- PIGMENTED SURFACE SEALER.
- PROTECTIVE SURFACE TREATMENT.
- BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	S. ABUT.	PIER 1	PIER 2	N. ABUT.	SUPER.	TOTAL	UNIT
203.0260	REMOVING STRUCTURES OVER WATERWAY MINIMAL DEBRIS B-53-96						1	EACH
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-53-96						1	EACH
210.1500	BACKFILL STRUCTURE TYPE A	8					8	TON
502.0100	CONCRETE MASONRY BRIDGES	6.9				178.2	185	CY
502.3101	EXPANSION DEVICE	30		-		-	30	LF
502.3200	PROTECTIVE SURFACE TREATMENT	6				503	509	SY
502.3210	PIGMENTED SURFACE SEALER	9				159	168	SY
502.4106	ADHESIVE ANCHORS 3/4-INCH	4					4	EACH
502.4205	ADHESIVE ANCHORS NO. 5 BAR	32	-		32		64	EACH
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1,250				47,020	48,270	LB
506.2610	BEARING PADS ELASTOMERIC LAMINATED	4					4	EACH
506.7050.S	REMOVING BEARINGS B-53-96	4					4	EACH
509.1500	CONCRETE SURFACE REPAIR	30					30	SF
517.0901.S	PREPARATION AND COATING OF TOP FLANGES B-53-96						1	EACH
517.1801.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-53-96						1	EACH
517.4501.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-53-96						1	EACH
517.6001.S	PORTABLE DECONTAMINATION FACILITY						1	EACH
606.0300	RIPRAP HEAVY	3					3	CY
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	2				2	4	EACH
SPV.0180.01	ABUTMENT SEAT CLEANING AND SEALING	8					8	SY
	NON-BID ITEMS							
	NAME PLATE						1	EACH
	FILLER		-				1/2"	SIZE

GENERAL NOTES

STATE PROJECT NUMBER 5767-00-73

- REMOVAL OF EXISTING CONCRETE BRIDGE DECK AND METAL RAILINGS AND REPLACE WITH NEW CONCRETE BRIDGE DECK AND PARAPETS.
- REMOVE AND REPLACE BEARINGS AT SOUTH ABUTMENT.
- CLEAN AND REPAINT ALL STRUCTURAL STEEL AND BEARINGS AT PIERS 1 AND 2.
- REPLACE EXPANSION JOINT AT SOUTH ABUTMENT.
- CONCRETE SURFACE REPAIR AT SOUTH ABUTMENT.
- RIPRAP FILL AT SOUTH ABUTMENT
- ABUTMENT SEAT CLEANING AND SEALING AT SOUTH ABUTMENT.

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS ARE IN FEET AND INCHES.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

THE FIRST, OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS FOR BENDING ARE OUT-TO-OUT OF BARS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK. UNLESS SPECIFIED OTHERWISE.

APPLY BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACE OF THE SOUTH ABUTMENT BELOW THE EXPANSION DEVICE PER BID ITEM "ABUTMENT SEAT CLEANING AND SEALING".

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND PAVING BLOCK AT SOUTH ABUTMENT.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE, TOP, AND ENDS OF THE PARAPETS.

VARIATIONS TO THE NEW GRADE LINE OVER ½" MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN SECTION FOR REVIEW.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR, 1966.

PROVIDE TEMPORARY HOLD-DOWN DEVICES AT GIRDER ENDS WHEN DECK REMOVAL BEGINS. HOLD-DOWN DEVICES SHALL REMAIN IN-PLACE UNTIL AFTER THE SLAB POUR IS COMPLETE. THE SLAB POUR SHALL BEGIN AT THE END OF THE BRIDGE OPPOSITE THE END WHERE THE TEMPORARY HOLD-DOWN DEVICES ARE LOCATED. SEE SHEET 11 FOR TEMPORARY HOLD-DOWN DEVICES DETAILS.

STRUCTURAL STEEL AND STEEL BEARINGS SHALL BE PAINTED LIGHT GRAY (AMS STANDARD COLOR 26293).

CONCRETE SURFACE REPAIR AND RIPRAP FILL AREA AS DIRECTED BY THE FIELD ENGINEER. QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE.

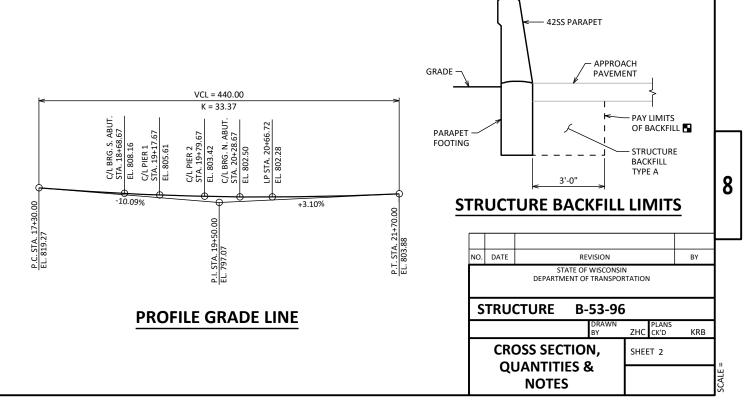
ANY EXCAVATION NECESSARY TO COMPLETE THE RE-DECK AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-53-96"

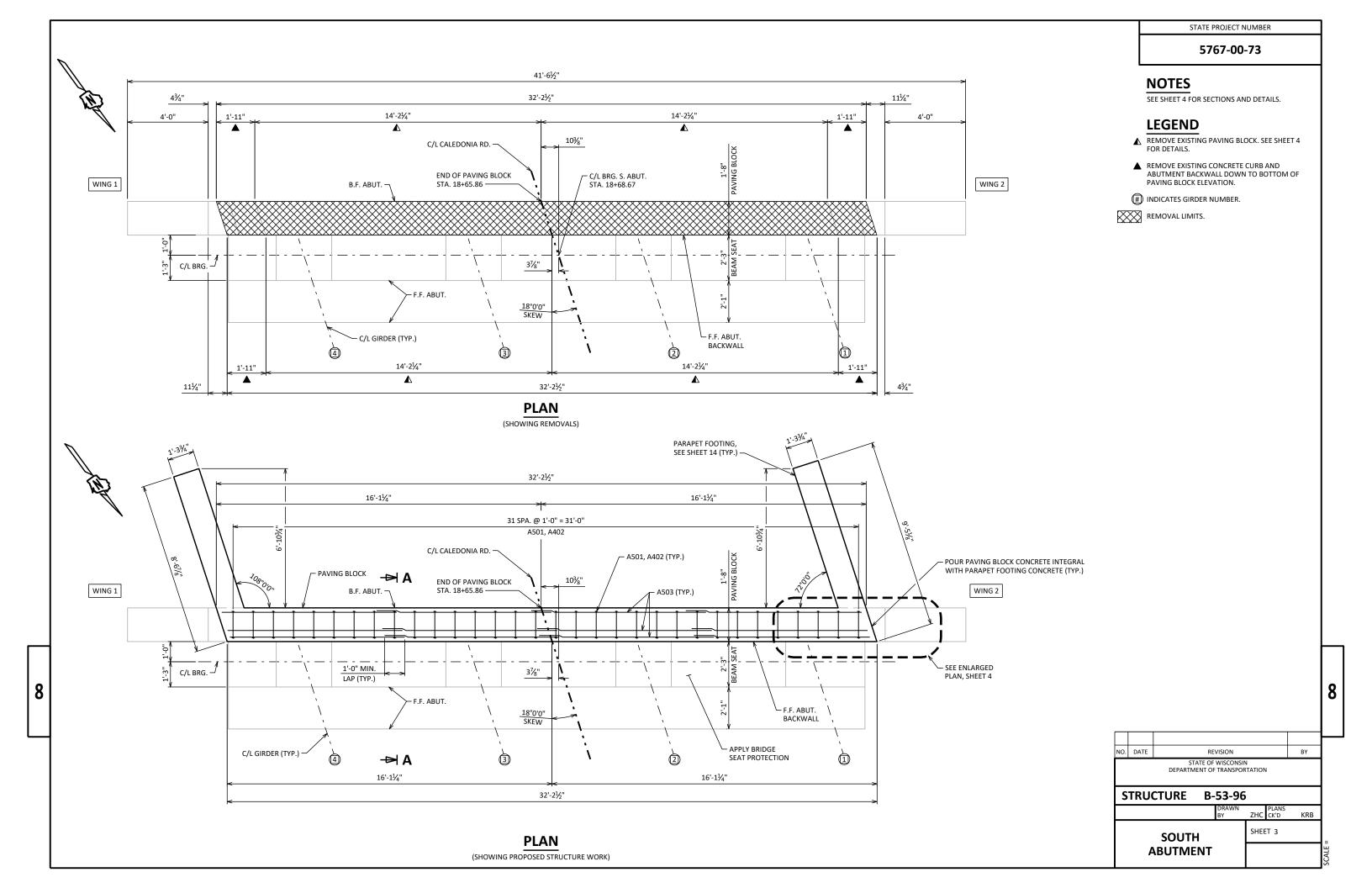
THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-53-96" SHALL BE THE EXISTING GROUNDLINE.

AT ABUTMENTS, ALL VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

CLEANING AND REPAINTING BEARINGS AT PIERS SHALL BE INCLUDED WITH BID ITEM "STRUCTURE REPAINTING RECYCLED ABRASIVE B-53-96".

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH OF 31/2" SHOWN ON SHEET 11.

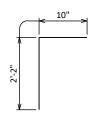


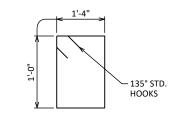


SOUTH ABUTMENT BILL OF BARS

COATED: 470 LBS.

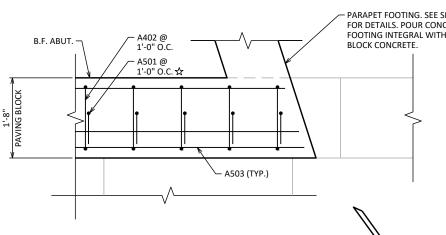
	BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
☆	A501	32	2'-11"	Х	Х	BACKWALL - DOWELS - VERT.
	A402	32	5'-2"	X	Х	BACKWALL - VERT.
	A503	28	9'-0"		Х	BACKWALL - PAVING BLOCK - HORIZ





A501

A402



PARAPET FOOTING. SEE SHEET 14
 FOR DETAILS. POUR CONCRETE FOR
 FOOTING INTEGRAL WITH PAVING
 BLOCK CONCRETE.

LEGEND

NOTES

☆ ADHESIVE ANCHORS NO. 5 BAR, EMBED 1'-0" MIN. IN EXISTING CONCRETE. TURN 10" LEG AS NECESSARY TO FIT.

SEE SHEETS 12 FOR ADDITIONAL PAVING BLOCK REINFORCING DETAILS.

- N HORIZONTAL CONSTRUCTION JOINT. ROUGHEN SURFACE OF EXISTING CONCRETE TO ⅓" +/- AMPLITUDE (ALL AREAS OF NEW TO EXISTING CONCRETE CONTACT). POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE.
- STRIP SEAL EXPANSION JOINT TO BE INSTALLED WITH PAVING BLOCK CONCRETE POUR. SEE "STRIP SEAL EXPANSION JOINT" SHEET FOR DETAILS.
- SALVAGE AND INCORPORATE AS MUCH REINFORCING AS

NO.	DATE		REVISION			BY
			TE OF WISCONSII NT OF TRANSPOF	-	١	
S	TRU	CTURE	B-53-96	5		
			DRAWN BY	ZHC	PLANS CK'D	KRB
		SOUTH		SHEE	T 4	
	P	ABUTME				
		DFTAILS		I		

A402@ 1'-0" O.C.

A503, 1'-0" MIN. -LAP (TYP.)

REINFORCING AND INCORPORATE INTO NEW PAVING BLOCK

☆ A501 @ 1'-0" O.C. -

B.F. ABUT. BACKWALL -

B.F. ABUT. —

SALVAGE EXIST. VERT.

SECTION A-A

- A503, 1'-0" MIN. LAP (SEE SHEET 12)

F.F. ABUT. BACKWALL

- C/L BRG.

– F.F. ABUT.

PAVING **BLOCK**

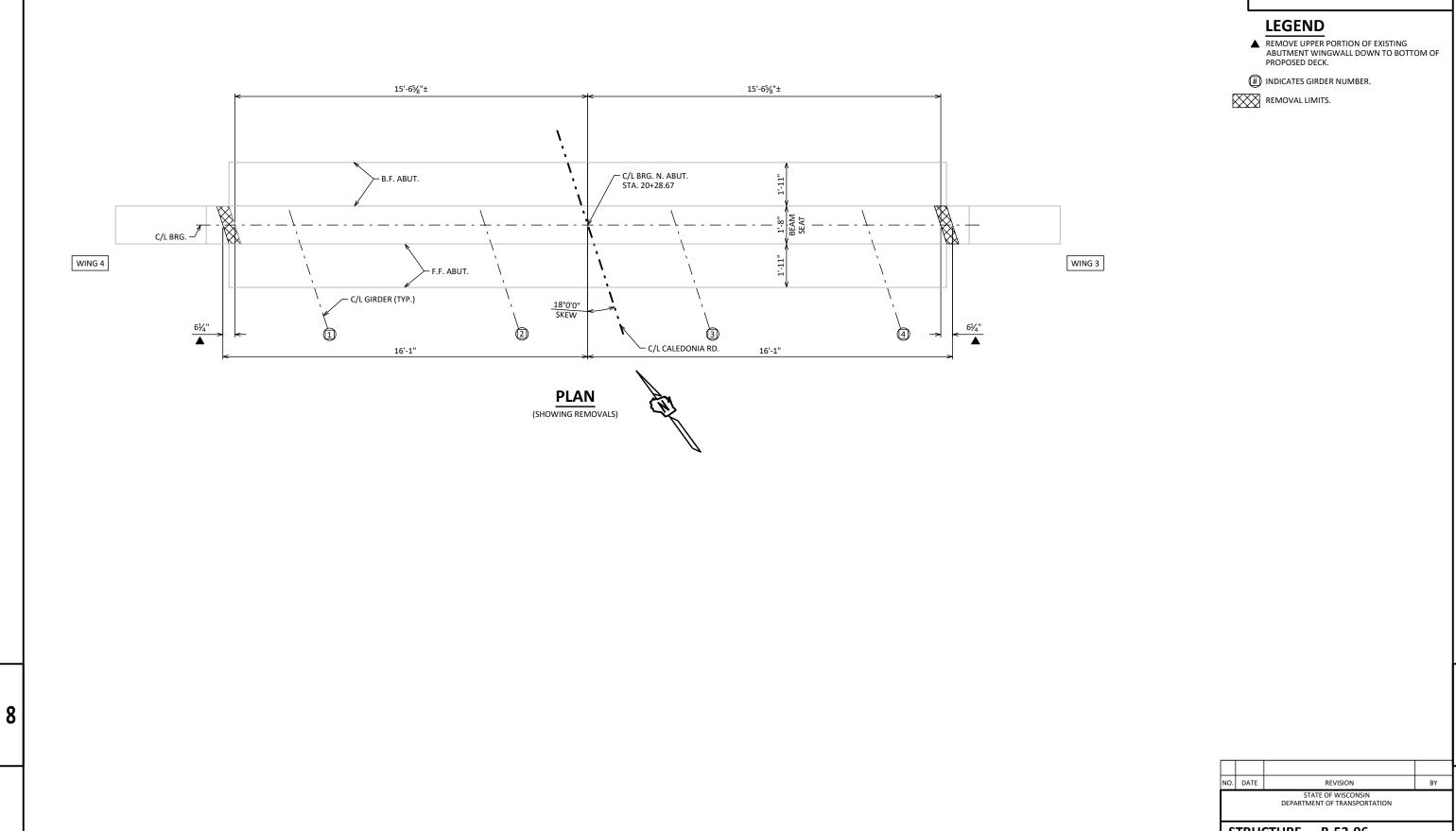
ENLARGED PARTIAL PLAN (WING 2 SHOWN, WING 1 SIMILAR)

★ DIMENSION IS TAKEN NORMAL TO C/L SUBSTRUCTURE

EXISTING REINFORCING IS LIKELY TO BE CORRODED AND/OR DAMAGED DURING CONCRETE REMOVAL.

ADJUST PAVING BLOCK HEIGHT AS NECESSARY BASED ON FIELD CONDITIONS TO MATCH ELEVATION OF ADJACENT

Ю.	DATE	RE	VISION			BY
		STATE OF DEPARTMENT OF	WISCONSIN TRANSPOR		I	
S	TRU	CTURE B-	53-96	1		
			DRAWN BY	ZHC	PLANS CK'D	KRB
	,	SOUTH		SHEE	T 4	
	F	ABUTMENT				
		DETAILS				



STATE PROJECT NUMBER

5767-00-73

8

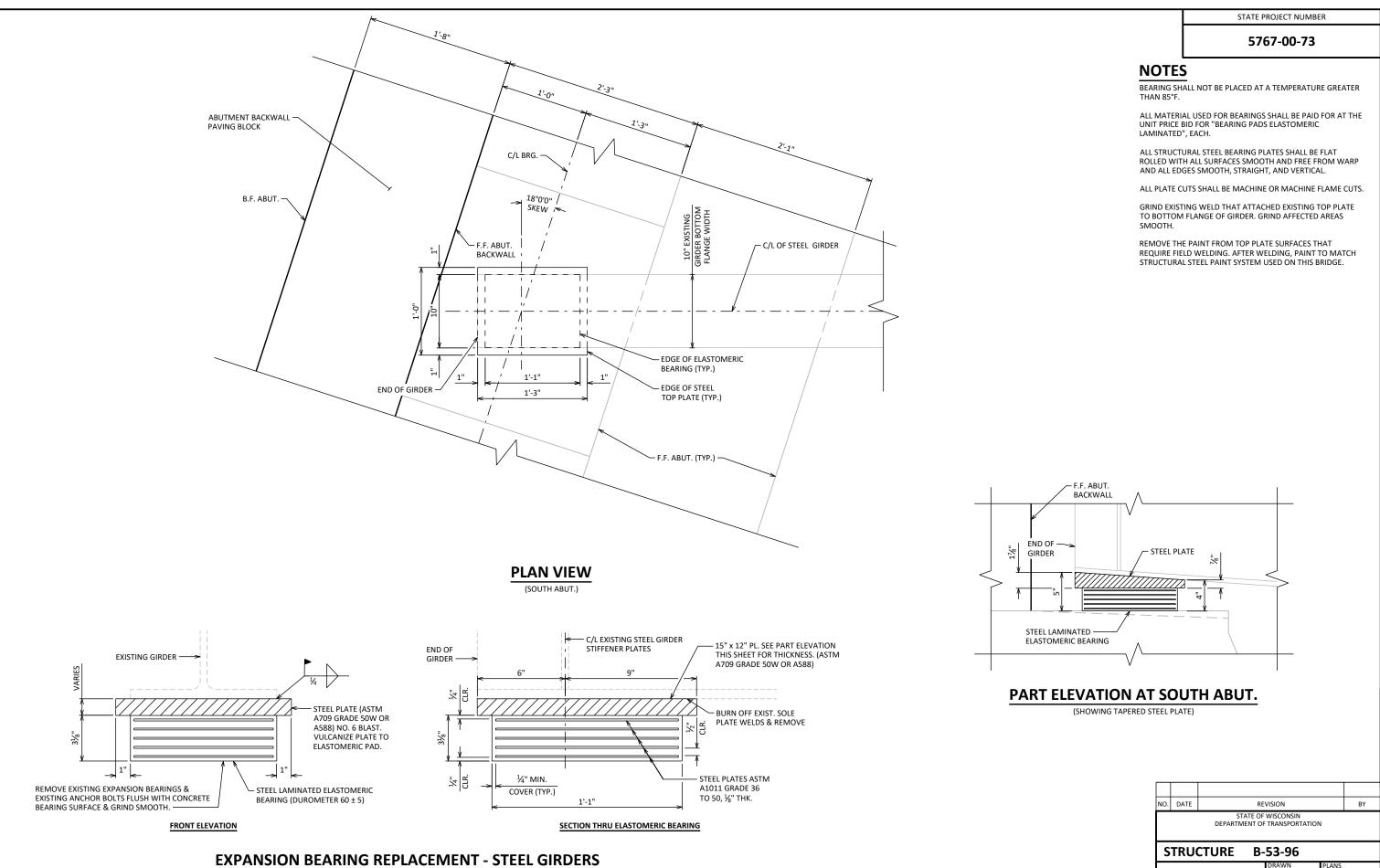
NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-53-96

DRAWN BY ZHC CK'D KRB

NORTH
ABUTMENT

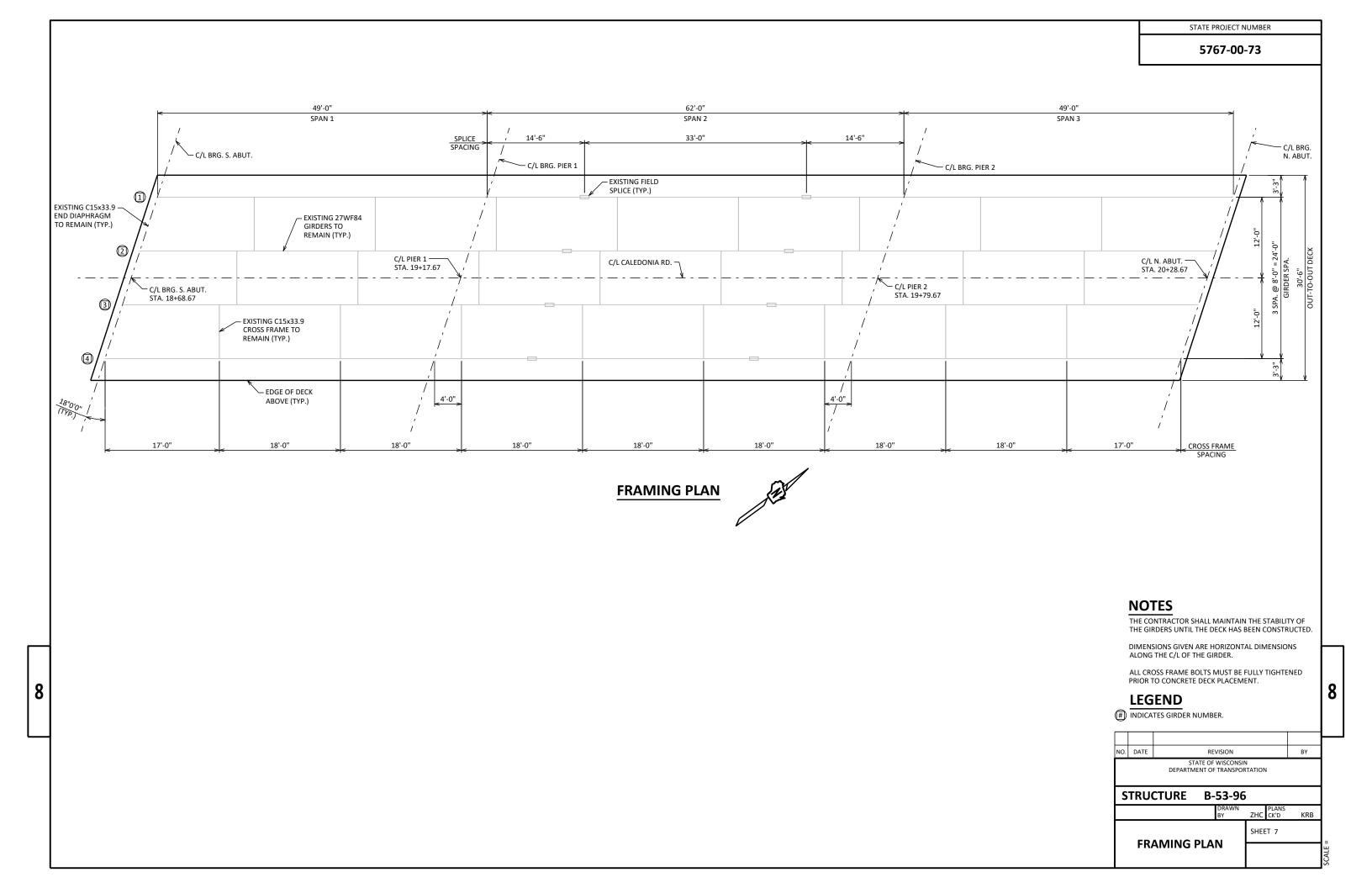


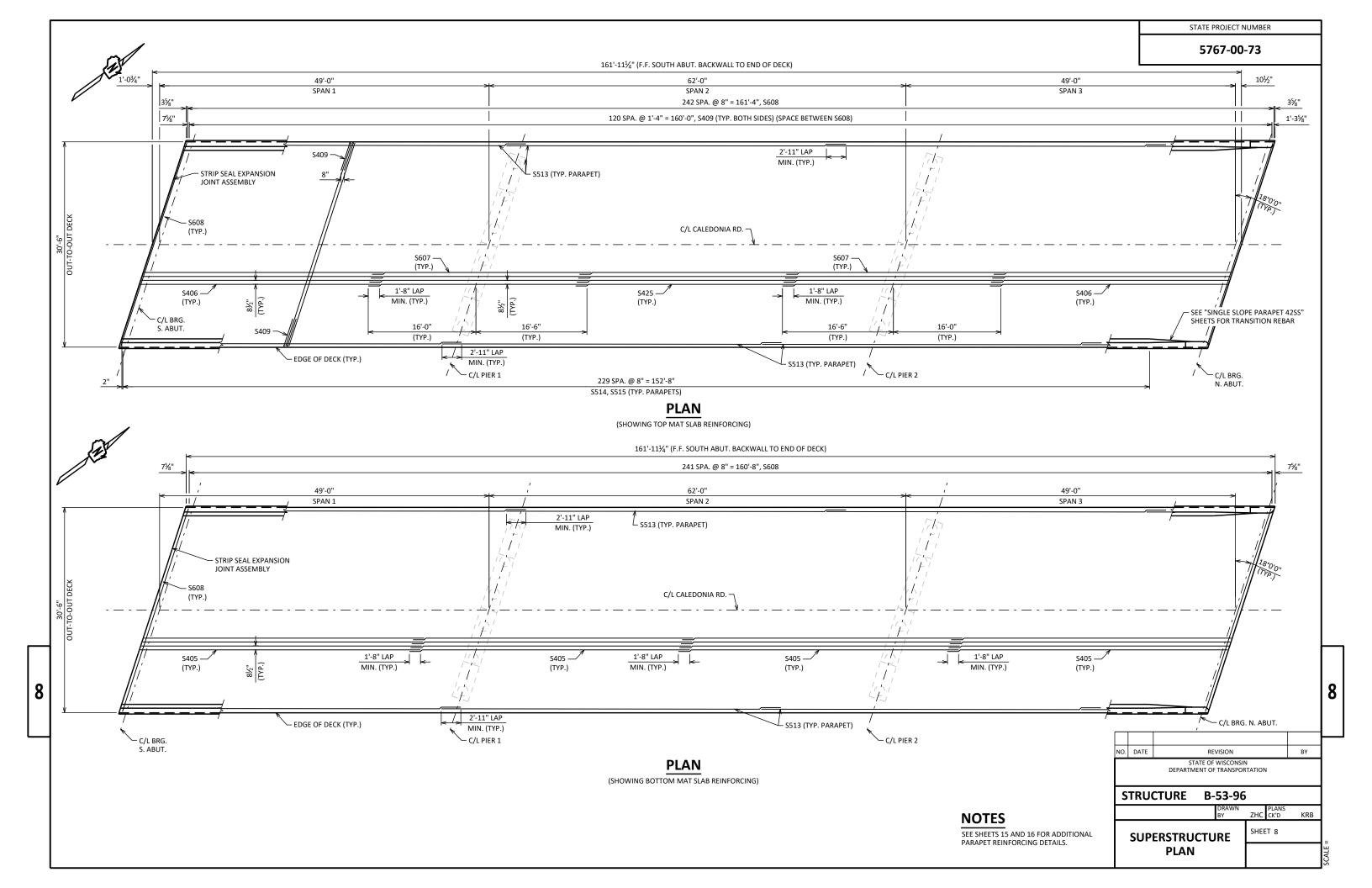
ELASTOMERIC BEARINGS

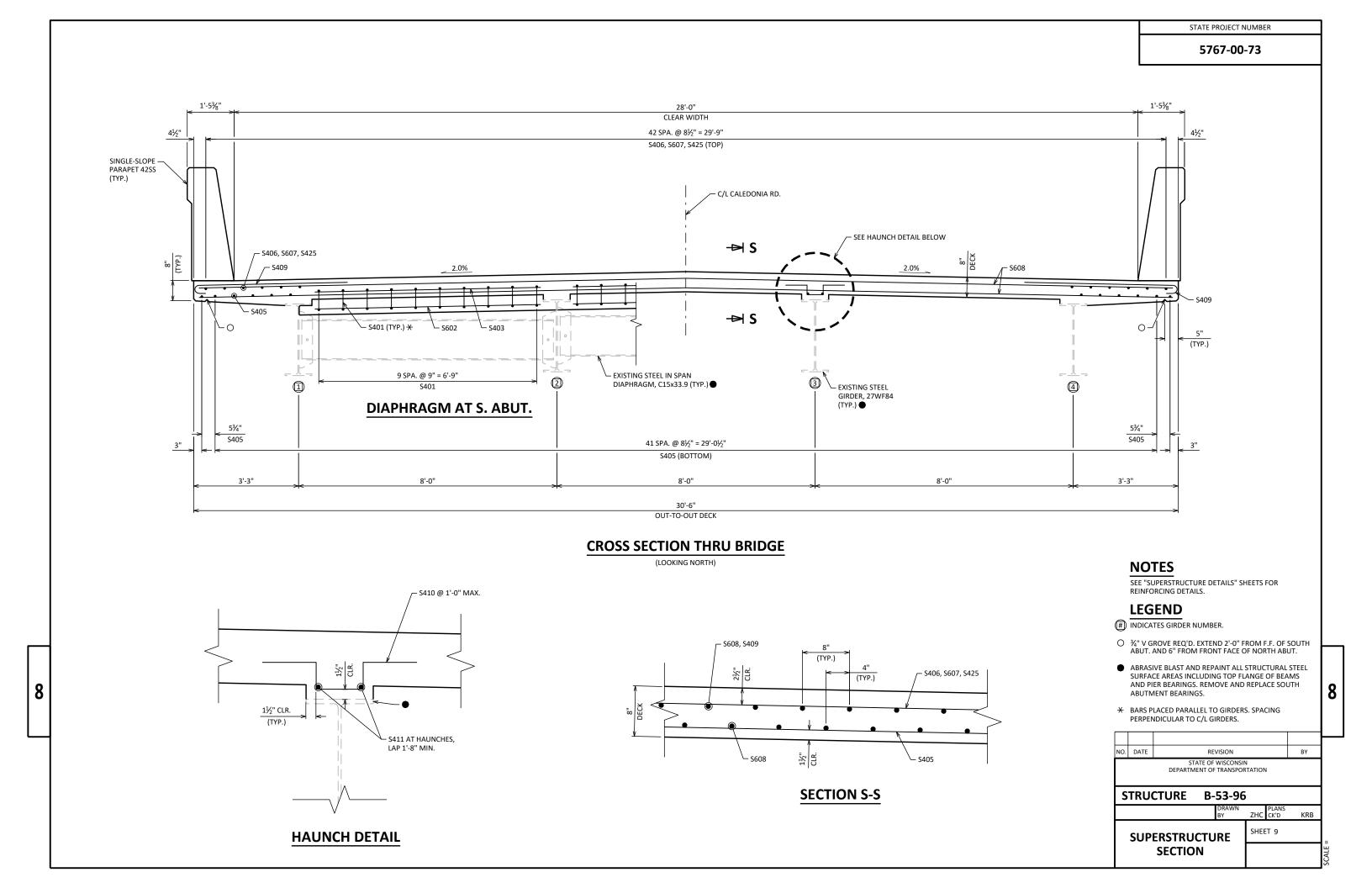
S CALE =

EXPANSION BEARING | SHEET 6

REPLACEMENT DETAILS







SUPERSTRUCTURE

BILL OF BARS

DILL C	T DAI	13			COATED. 47,020 LE
BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
S401	30	4'-11"	Х	Х	S. ABUT. DIAPHRAGM - VERT BTWN. BEAMS
S602	15	8'-0''		Х	S. ABUT. DIAPHRAGM - HORIZ
S403	6	8'-0"		Х	S. ABUT. DIAPHRAGM - HORIZ
S404	8	9'-0"		Х	N. ABUT. DIAPHRAGM - HORIZ
S405	176	41'-8"		Х	SLAB - LONG BOT.
S406	86	35'-8"		Х	SLAB - LONG TOP - SPAN 1 & 3
S607	86	32'-6"		Х	SLAB - LONG TOP - OVER PIERS
S608	485	31'-8"		Х	SLAB - TRANS TOP & BOT.
S409	242	4'-10"	Х	Х	SLAB - TRANS TOP - OVERHANGS
S410	648	2'-7"	Х	Х	GIRDER HAUNCH - VERT.
S411	32	41'-7"		Х	GIRDER HAUNCH - HORIZ.
S412	6	8'-0''		Х	SLAB - TRANS STRIP SEAL EXP. JOINT
S513	48	50'-6"		Х	PARAPET - HORIZ
S514	460	4'-5"	Х	Х	PARAPET - VERT.
S515	460	6'-8''	Х	Х	PARAPET - VERT.
S516	24	2'-9"	Х	Х	PARAPET - VERT NORTH END
S517	34	4'-4''	Х	Х	PARAPET - VERT NORTH END
S518	10	6'-5"	Х	Х	PARAPET - VERT NORTH END
S519	12	6'-6"	Х	Х	PARAPET - VERT NORTH END
S520	2	18'-9"	Х	Х	PARAPET - HORIZ NORTH END
S521	10	18'-9"		Х	PARAPET - HORIZ NORTH END
S522	12	5'-5"	Х	Х	PARAPET - VERT NORTH END
S523	4	18'-9"	Х	Х	PARAPET - HORIZ NORTH END
S524	32	2'-11"	Х	Х	N. ABUT VERT.

 $m{ imes}$ Length shown for Bar is an average and should only be used for Bar Weight calculations. See

BAR SERIES TABLE

43

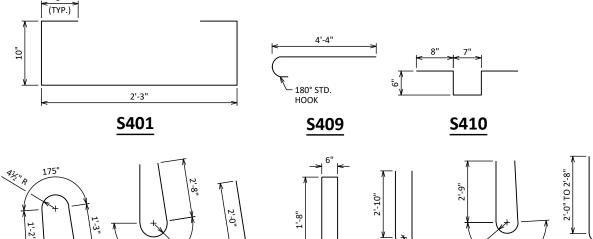
S425

S514

8

BUNDLE AND TAG EACH SERIES SEPARATELY.

DONDEL	AND TAG LACTI SET	(IES SEI ANATEET:
BAR MARK	NO. REQ'D.	LENGTH
S522	2 SERIES OF 6	4'-9" TO 6'-1"



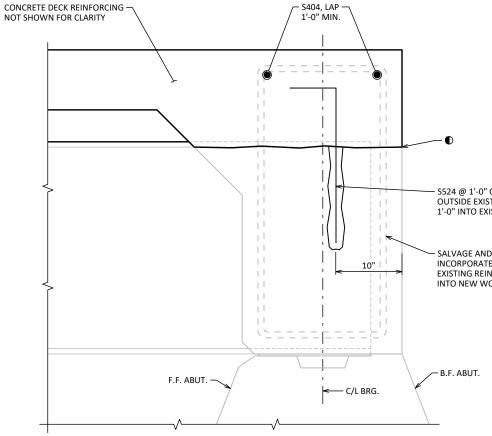
S517

S516

S515

SLAB - LONG. - TOP - SPAN 2

COATED: 47.020 LBS.



SECTION THRU DIAPHRAGM AT NORTH ABUT.

(NORMAL TO C/L SUBSTRUCTURE)

NOTES

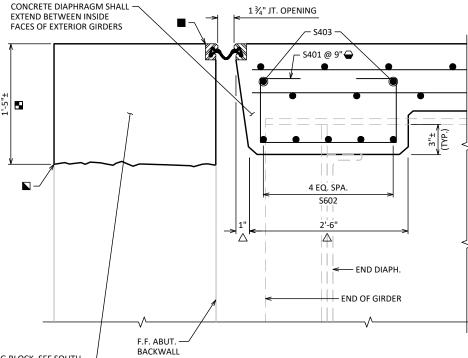
ALL REPLACEMENT PAVING BLOCK DIMENSIONS SHALL MATCH EXISTING PLAN DIMENSIONS UNLESS NOTED

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5767-00-73

LEGEND

- ♠ ROUGHEN SURFACE OF EXISTING CONCRETE TO ¼"± AMPLITUDE (ALL AREAS OF NEW TO EXISTING CONCRETE CONTACT).
- NOTIFIED HORIZONTAL CONSTRUCTION JOINT. POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN
- STRIP SEAL EXPANSION JOINT TO BE INSTALLED WITH PAVING BLOCK CONCRETE POUR. SEE "STRIP SEAL EXPANSION IOINT" SHEET FOR DETAILS
- → BARS PLACED PARALLEL TO GIRDERS. SPACING PERPENDICULAR TO C/L GIRDERS.
- ADJUST PAVING BLOCK HEIGHT AS NECESSARY BASED ON FIELD CONDITIONS TO MATCH ELEVATION OF ADJACENT DECK.
- △ DIMENSION TAKEN NORMAL TO C/L ABUTMENT.
- ☆ ADHESIVE ANCHORS NO. 5 BAR.

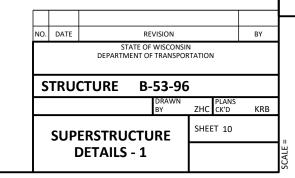


PAVING BLOCK, SEE SOUTH -ABUTMENT AND EXPANSION JOINT DRAWINGS FOR ADDITIONAL DETAILS.

S524

SECTION THRU DIAPHRAGM AT SOUTH ABUT.

(NORMAL TO C/L SUBSTRUCTURE)



\$524 @ 1'-0" O.C. BETWEEN AND OUTSIDE EXISTING GIRDERS. EMBED 1'-0" INTO EXISTING CONCRETE. ☆ SALVAGE AND INCORPORATE EXISTING REINF. INTO NEW WORK

176° **S520**

S522

S523

S519

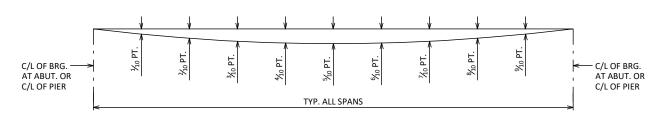
S518

SPAN 1 SPAN 2 SPAN 3 C/L BRG C/L PIFR C/I PIE C/L BRG LOCATION 0.5 0.5 N. ABUT S. ABUT 0.2 0.3 0.4 0.5 0.6 0.7 8.0 0.9 NO. 1 0.1 0.2 0.3 0.4 0.6 0.7 8.0 0.9 NO.2 0.1 0.2 0.3 0.4 0.6 0.7 8.0 0.9 W. DECK EDGE 806.79 806.53 806.28 806.04 805.80 805.57 804 62 804.38 804.15 803 93 803 73 803.53 803.35 802.50 802.42 807 61 807 33 807.06 805.35 805 13 804 87 803 18 803.02 802.90 802.79 802.69 802.59 802 35 802 28 802.22 802 17 GIRDER 1 806.87 806.61 806.35 806.11 805.87 805.64 805.41 804.93 804.68 804.44 804.21 803.99 803.79 803.59 803.41 802.85 802.74 802.65 802.56 802.47 802.40 802.33 802.22 GIRDER 2 808.00 807.72 807.44 807.17 806.90 806.65 806.40 806.16 805.92 805.69 805.20 804.95 804.70 804.47 803.83 803.64 803.47 803.18 803.07 802.96 802.86 802.76 802.68 802.60 802.53 802.40 805.47 804.24 804.03 803.30 802.46 REF. LINE 808.16 807.87 807.59 807.32 807.05 806.79 806.54 806.30 806.06 805.83 805.61 805.34 805.08 804.83 804.59 804.37 804.16 803.95 803.76 803.58 803.42 803.29 803.17 803.07 802.96 802.87 802.78 802.70 802.62 802.56 802.50 GIRDER 3 807.87 807.58 807.31 807.04 806.78 806.53 806.28 806.04 805.81 805.59 805.31 805.05 804.80 804.56 804.34 804.12 803.91 803.72 803.24 803.13 803.01 802.91 802.81 802.72 802.64 802.56 802.43 808.16 803.54 803.37 802.49 GIRDER 4 807.86 807.57 807.29 807.02 806.76 806.50 806.25 806.01 805.77 805.55 805.27 805.00 804.75 804.50 804.27 804.05 803.84 803.64 803.45 803.28 803.15 803.03 802.91 802.80 802.70 802.61 802.52 802.44 802.37 802.30 807.57 807.29 807.02 806.75 806.50 806.24 806.00 805.77 805.54 805.26 804.99 804.73 804.49 804.03 803.82 803.62 803.43 803.13 803.00 802.89

GIRDER DEFLECTION TABLE (IN INCHES)

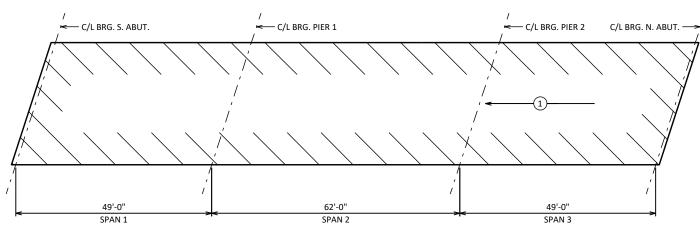
TOP OF DECK ELEVATIONS

		C/L BRG.					SPAN 1					C/L PIER					SPAN 2		*	,		C/L PIER					SPAN 3					C/L BRG.
		S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	NO. 1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	8.0	0.9	NO.2	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	N. ABUT.
GIRDER 1	TOTAL DL DEFLECTION	0.0	0.3	0.6	8.0	8.0	8.0	0.6	0.4	0.2	0.1	0.0	0.1	0.4	0.7	0.9	1.0	0.9	0.7	0.4	0.1	0.0	0.1	0.2	0.4	0.6	8.0	8.0	8.0	0.6	0.3	0.0
GIRDER	CONCRETE ONLY DL DEFLECTION	0.0	0.3	0.5	0.7	0.7	0.7	0.6	0.4	0.2	0.1	0.0	0.1	0.3	0.6	8.0	0.9	8.0	0.6	0.3	0.1	0.0	0.1	0.2	0.4	0.6	0.7	0.7	0.7	0.5	0.3	0.0
GIRDER 2	TOTAL DL DEFLECTION	0.0	0.3	0.6	8.0	0.9	8.0	0.7	0.5	0.2	0.1	0.0	0.1	0.4	0.7	0.9	1.0	0.9	0.7	0.4	0.1	0.0	0.1	0.2	0.5	0.7	8.0	0.9	8.0	0.6	0.3	0.0
GIRDER 2	CONCRETE ONLY DL DEFLECTION	0.0	0.3	0.6	0.7	8.0	8.0	0.6	0.4	0.2	0.1	0.0	0.1	0.4	0.6	0.9	0.9	0.9	0.6	0.4	0.1	0.0	0.1	0.2	0.4	0.6	8.0	8.0	0.7	0.6	0.3	0.0
GIRDER 3	TOTAL DL DEFLECTION	0.0	0.3	0.6	0.8	0.9	0.8	0.7	0.5	0.2	0.1	0.0	0.1	0.4	0.7	0.9	1.0	0.9	0.7	0.4	0.1	0.0	0.1	0.2	0.5	0.7	0.8	0.9	8.0	0.6	0.3	0.0
GIRDER 3	CONCRETE ONLY DL DEFLECTION	0.0	0.3	0.6	0.7	8.0	0.8	0.6	0.4	0.2	0.1	0.0	0.1	0.4	0.6	0.9	0.9	0.9	0.6	0.4	0.1	0.0	0.1	0.2	0.4	0.6	0.8	8.0	0.7	0.6	0.3	0.0
GIRDER 4	TOTAL DL DEFLECTION	0.0	0.3	0.6	0.8	8.0	8.0	0.6	0.4	0.2	0.1	0.0	0.1	0.4	0.7	0.9	1.0	0.9	0.7	0.4	0.1	0.0	0.1	0.2	0.4	0.6	8.0	0.8	0.8	0.6	0.3	0.0
GIRDER 4	CONCRETE ONLY DL DEFLECTION	0.0	0.3	0.5	0.7	0.7	0.7	0.6	0.4	0.2	0.1	0.0	0.1	0.3	0.6	0.8	0.9	0.8	0.6	0.3	0.1	0.0	0.1	0.2	0.4	0.6	0.7	0.7	0.7	0.5	0.3	0.0

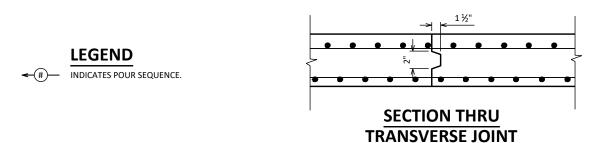


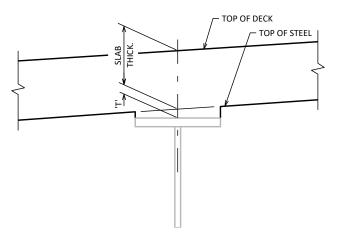
GIRDER DEFLECTION DIAGRAM

SEE "TOP OF DECK ELEVATIONS" TABLE FOR ESTIMATED DEFLECTION VALUES AT THE TENTH POINTS OF EACH SPAN.



DECK POUR SEQUENCE





HAUNCH DETAIL

CONCRETE HAUNCH NOTES

'T' = HAUNCH HEIGHT AT CENTERLINE OF GIRDER.

TO DETERMINE 'T': ELEVATIONS OF THE TOP FLANGES SHALL BE TAKEN AT CENTERLINE OF BEARINGS AND AT 0.1 POINTS.

TOP OF DECK ELEVATION AT FINAL GRADE

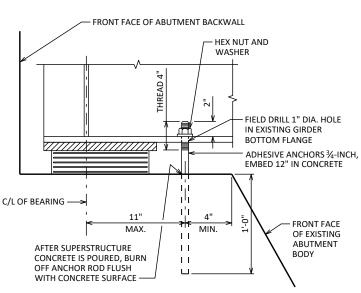
- TOP OF STEEL ERECTION
- + CONC. ONLY DEFLECTION; DOWNWARD DEFLECTION IS ADDED, UPWARD DEFLECTION IS SUBTRACTED
- SLAB THICKNESS
- = 'T' VALUE FOR SETTING HAUNCH

AVERAGE 'T' USED FOR ESTIMATING CONCRETE QUANTITIES IS 4".

NOTES

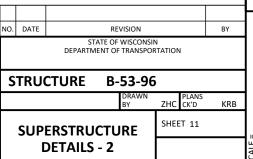
THE RATE OF PLACING CONCRETE SHALL EQUAL OR EXCEED $\frac{1}{2}$ SPAN LENGTH PER HOUR BUT NEED NOT EXCEED 100 CU. YDS. PER HOUR.

THE NEXT DECK POUR SHALL BE MADE NO LESS THAN 72 HOURS AFTER THE PREVIOUS POUR.



TEMPORARY HOLD DOWN DEVICE

PLACE ONE ANCHOR ROD PER GIRDER AT ABUTMENT WHERE SLAB POUR TERMINATES. LOCATE 2 ½" (NORMAL) OFF C/L OF GIRDER. ANCHOR ROD, NUT, WASHER, AND DRILLED HOLE IN GIRDER FLANGE SHALL BE PAID FOR AS "ADHESIVE ANCHORS 3/4-INCH".



ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, ANCHOR PLATES SHALL BE PROVIDED 3" FROM EACH SIDE OF THE FIELD SPLICE. DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

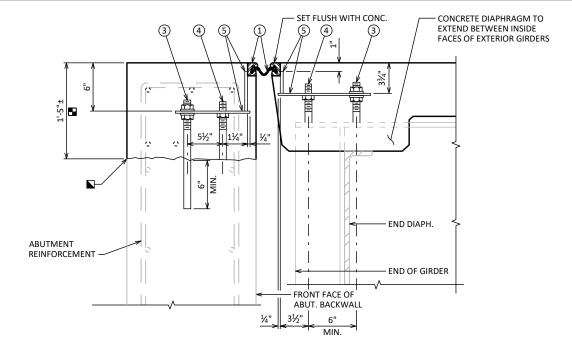
ALL MATERIAL IN THE EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID AT THE UNIT PRICE BID FOR "EXPANSION DEVICE", LF.

LEGEND

- 1 NEOPRENE STRIP SEAL (4 INCH) AND STEEL EXTRUSIONS.
- 2 STUDS ½" DIA. X 6¾" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- (A) ½" THICK ANCHOR PLATE WITH ½" DIA. ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
- 3/4" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
- 4) ¾" DIA. THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
- (5) FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1½" DIA. HOLE FOR NO. 3 AND 1" DIA.
- (6) GALVANIZED PLATE 3/8" X 10" X 2'-2" LONG WITH HOLES FOR NO.7.
- ¾" DIA. X 1½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS ½6" BELOW PLATE SURFACE.
- (8) 3/4" DIA. X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- 9 $\frac{3}{4}$ " DIA. X $\frac{2}{4}$ " GALVANIZED THREADED COUPLING.
- 1 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.
- HORIZONTAL CONSTRUCTION JOINT. POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE.
- ADJUST PAVING BLOCK HEIGHT AS NECESSARY BASED ON FIELD CONDITIONS TO MATCH ELEVATION OF ADJACENT DECK.

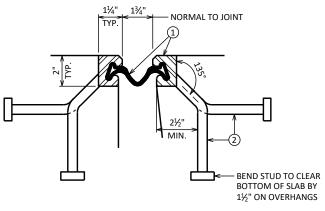
EXPANSION JOINT

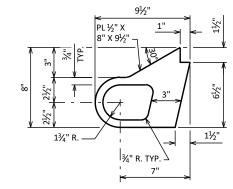




SECTION THRU JOINT AT ABUTMENT

NORMAL TO C/L SUBSTRUCTURE

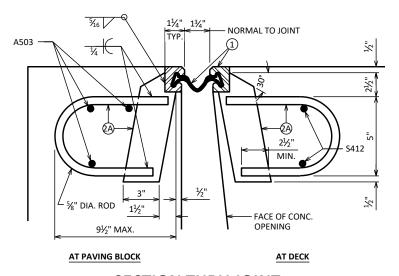


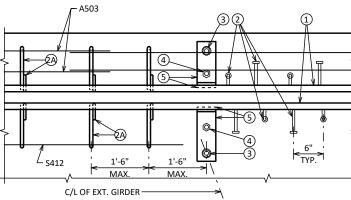


ALTERNATE STRIP SEAL ANCHOR

SECTION THRU JOINT

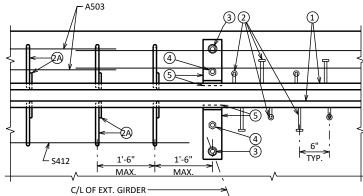
EXTERIOR GIRDER TO EDGE OF DECK, AND AT PARAPETS





SECTION THRU JOINT

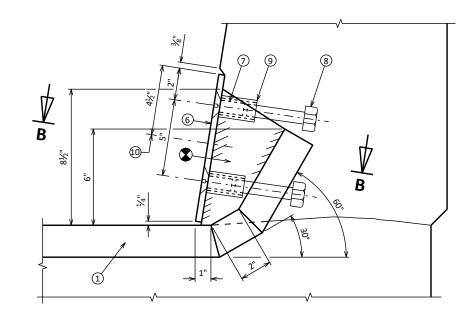
ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS

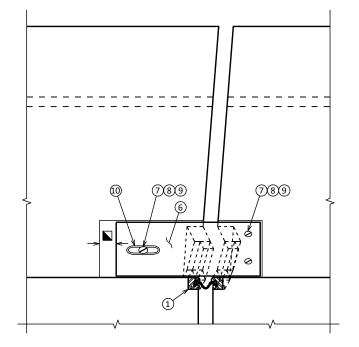


PART PLAN

NO. DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-53-96 ZHC CK'D SHEET 12 STRIP SEAL

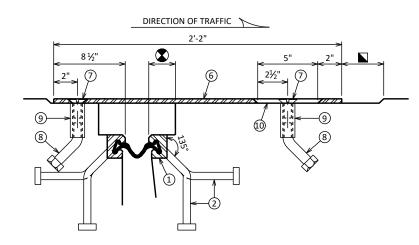




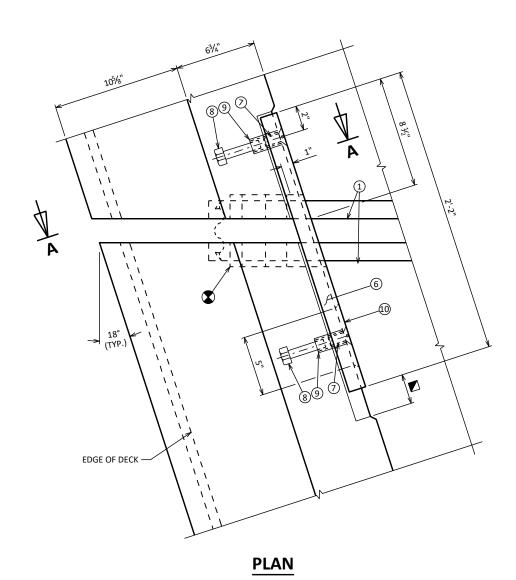


SECTION A-A

VIEW OF PARAPET PLATE FROM ROADWAY



SECTION B-B



NOTES

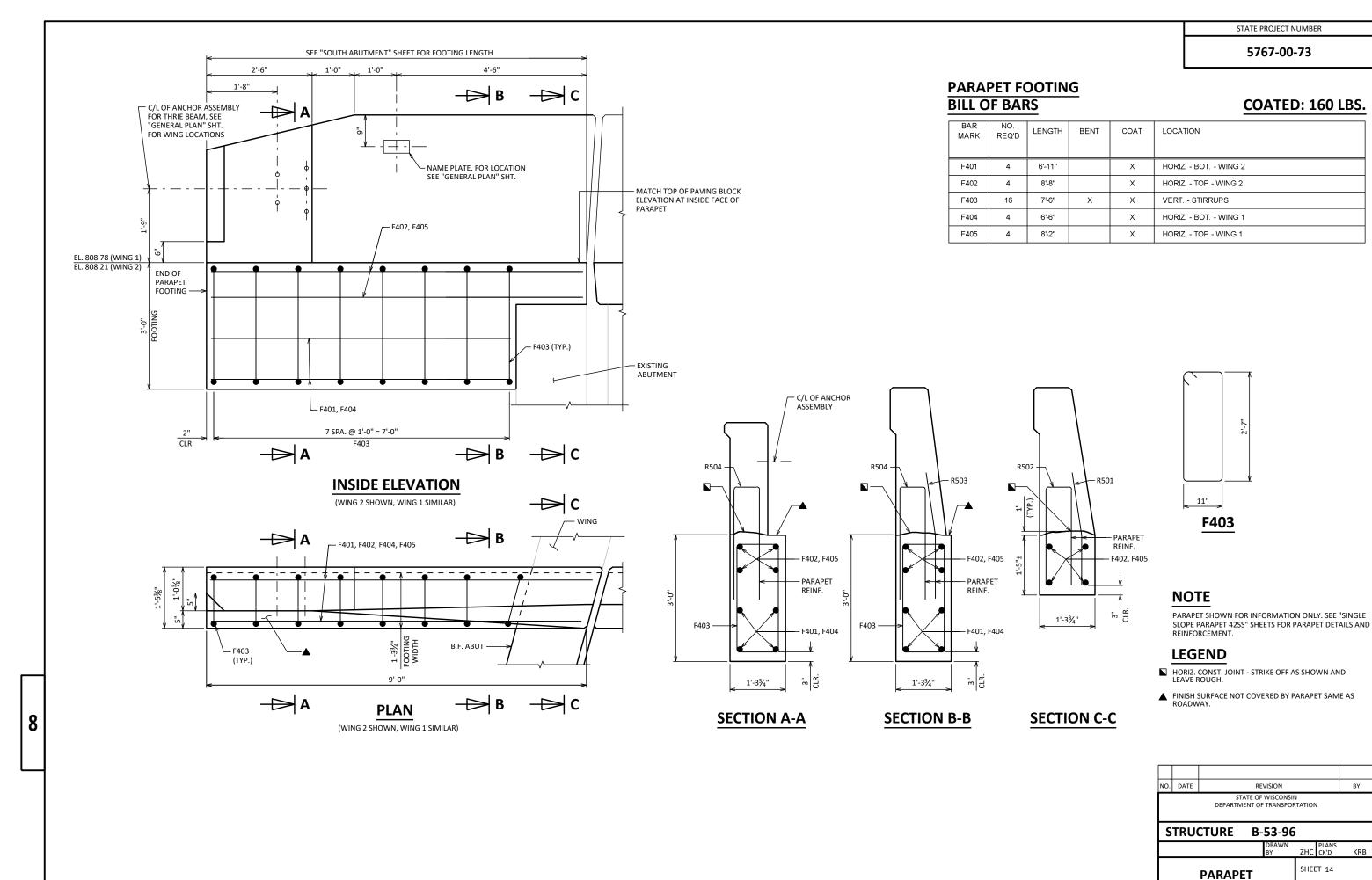
SEE LEGEND ON SHEET 12.

LEGEND

- BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING. 8
- JOINT OPENING DIMENSION ALONG SKEW PLUS ½".

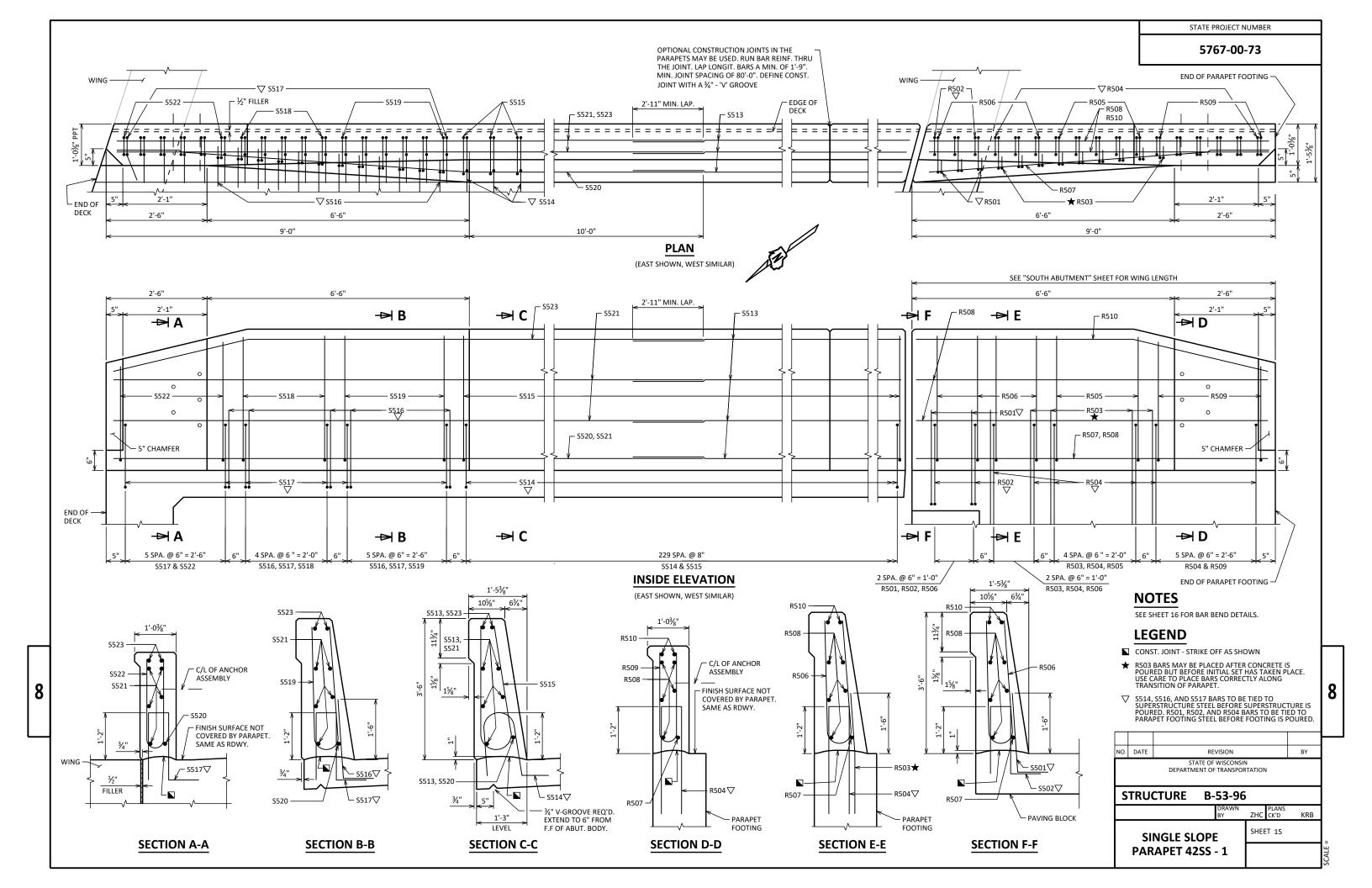
							Г
NO.	DATE	RE	VISION			BY	
		STATE OF DEPARTMENT OF	WISCONSIN TRANSPOR		I		
S	TRU	CTURE B-	53-96	1			
			DRAWN BY	ZHC	PLANS CK'D	KRB	
	C	OVER PLATE		SHEE	T 13		
		DETAILS					ALE:

| {



4LE =

FOOTING



SINGLE SLOPE PARAPET 42SS BILL OF BARS

COATED: 620 LBS.

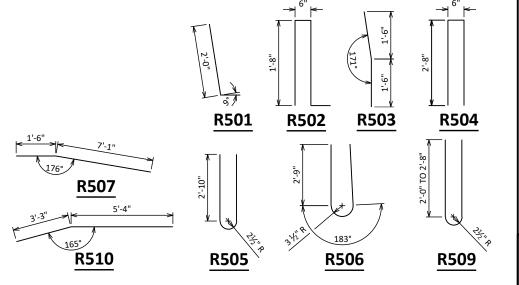
	BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
	R501	6	2'-9"	Х	Х	PARAPET - VERT.
	R502	6	4'-4"	Х	Х	PARAPET - VERT.
	R503	18	3'-0"	Х	Х	PARAPET - VERT.
	R504	28	5'-7"	Х	Х	PARAPET - VERT.
	R505	10	6'-5"	Х	Х	PARAPET - VERT.
	R506	12	6'-6"	Х	Х	PARAPET - VERT.
	R507	2	8'-7"	Х	Х	PARAPET - HORIZ.
	R508	10	8'-7"		Х	PARAPET - HORIZ.
*	R509	12	5'-5"	Х	Х	PARAPET - VERT.
	R510	4	8'-7"	Х	Х	PARAPET - HORIZ.

★ 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
R509	2 SERIES OF 6	4'-9" TO 6'-1"



NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-53-96

DRAWN
BY ZHC CK'D KRB

SINGLE SLOPE
PARAPET 42SS - 2

A'-6"

NAME PLATE. FOR LOCATION
SEE "GENERAL PLAN" SHEET.

1'-8"

10"

1'-0"

1'-0"

SEE "GENERAL PLAN" SHEET.

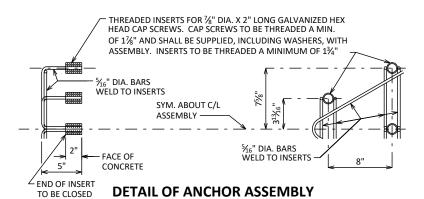
C/L OF ANCHOR ASSEMBLY FOR THRIE BEAM. SEE "GENERAL PLAN" SHT. FOR WING LOCATIONS

END OF DECK

END OF DECK

PARAPET END TREATMENT DETAIL

LOOKING AT INSIDE FACE OF PARAPET



NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH ASTM F2329.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

8

CALEDONIA	A ROAD		AREA (SF)		INCREMENT	AL VOL (CY) (U	NADJUSTED)		CUMULATIVE VO	L (CY)
STATION	DISTANCE	CUT NOTE 1	FILL NOTE 2	EBS (5% OF CUT)	CUT NOTE 1	FILL NOTE 2	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 3
16+53.45	0.0	0.4	0.0	0.0	0	0	0	0	0	0
16+85.40	32.0	4.8	0.3	0.2	3	0	0	3	0	3
17+00.00	14.6	5.1	0.3	0.3	3	0	0	6	0	6
17+15.50	15.5	40.2	1.2	2.0	13	0	1	19	0	19
17+50.00	34.5	54.7	0.4	2.7	61	1	3	80	1	79
17+64.75	14.8	93.8	0.2	4.7	41	0	2	121	1	120
17+72.94	8.2	99.2	0.4	5.0	29	0	1	150	1	149
17+89.01	16.1	86.8	0.4	4.3	55	0	3	205	1	204
17+98.20	9.2	85.0	0.2	4.3	29	0	1	234	1	233
18+00.00	1.8	85.4	0.0	4.3	6	0	0	240	1	239
18+14.00	14.0	75.0	1.4	3.7	42	0	2	282	1	281
18+23.18	9.2	57.9	0.9	2.9	23	0	1	305	1	304
18+50.00	26.8	35.1	0.3	1.8	46	1	2	351	3	349
18+72.91	22.9	35.1	0.3	1.8	46	1	2	397	4	393
20+26.59		44.3	17.7	2.2	0	0	0	397	4	393
20+50.00	23.4	44.3	17.7	2.2	38	15	2	435	23	413
20+61.41	11.4	48.0	23.1	2.4	19	9	1	454	34	420
20+65.02	3.6	48.6	24.3	2.4	6	3	0	460	38	423
20+74.11	9.1	49.8	22.2	2.5	17	8	1	477	48	430
20+90.00	15.9	51.0	11.4	2.5	30	10	1	507	60	447
20+99.00	9.0	52.3	14.1	2.6	17	4	1	524	65	459
21+00.00	1.0	51.9	14.6	2.6	2	1	0	526	66	460
21+15.01	15.0	56.9	4.3	2.8	30	5	2	556	73	484
21+24.09	9.1	54.9	3.2	2.7	19	1	1	575	74	501
21+50.00	25.9	46.2	5.0	2.3	49	4	2	624	79	545
21+74.08	24.1	31.6	1.4	1.6	35	3	2	659	83	577
22+00.00	25.9	5.3	0.1	0.3	18	1	1	677	84	593
22+32.00	32.0	7.4	0.0	0.4	8	0	0	685	84	601
22+40.08	8.1	9.5	0.0	0.5	3	0	0	688	84	604
			COLUMN	I TOTALS	688	67	32			

NOTES:

1) CUT: CUT INCLUDES SALVAGED PAVEMENT MATERIAL

2) FILL: FILL DOES NOT INCLUDE SALVAGED/UNUSABLE PAVEMENT MATERIAL

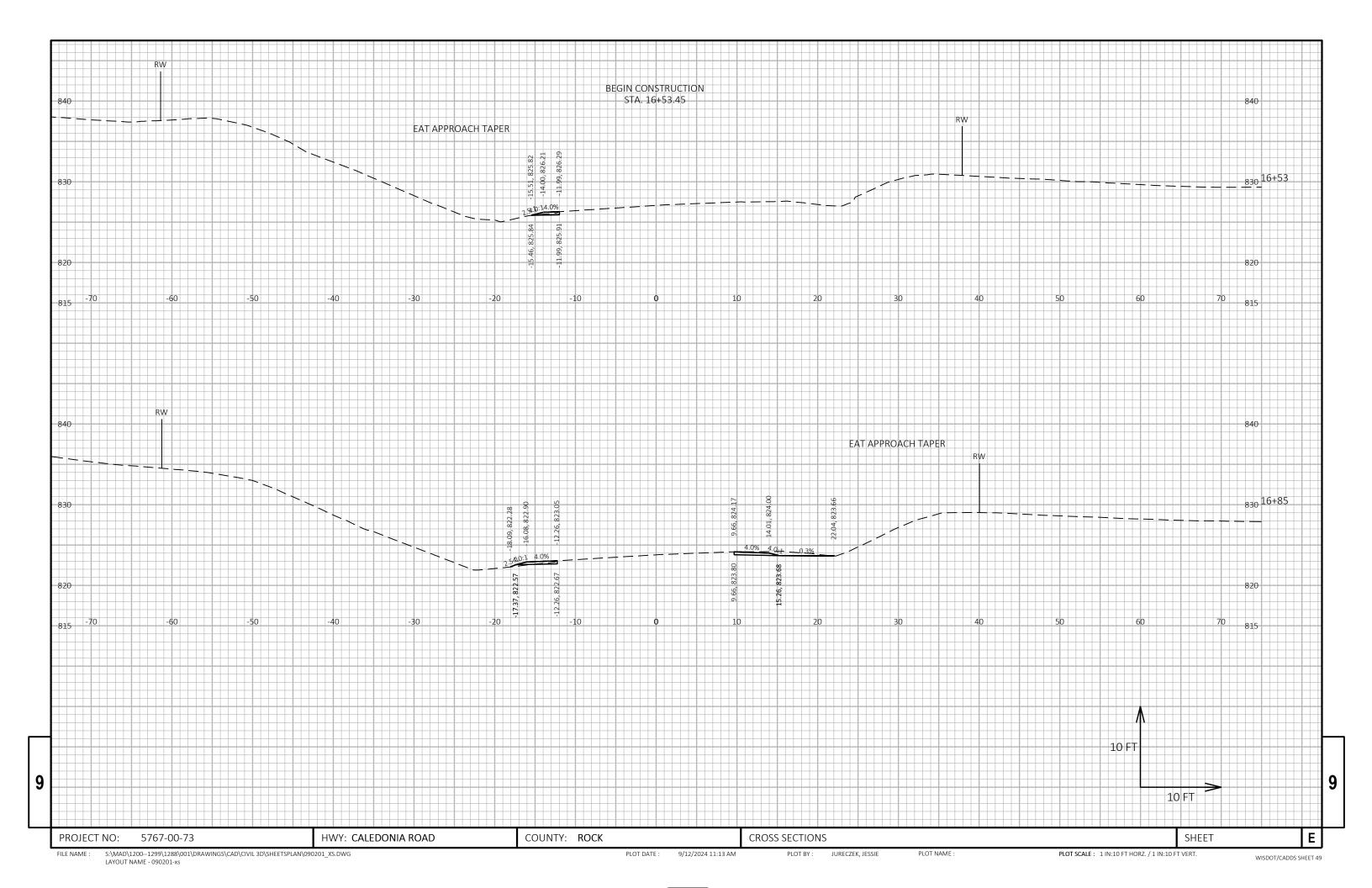
3) MASS ORDINATE: MASS ORDINATE = (CUT) - (FILL * FILL FACTOR)

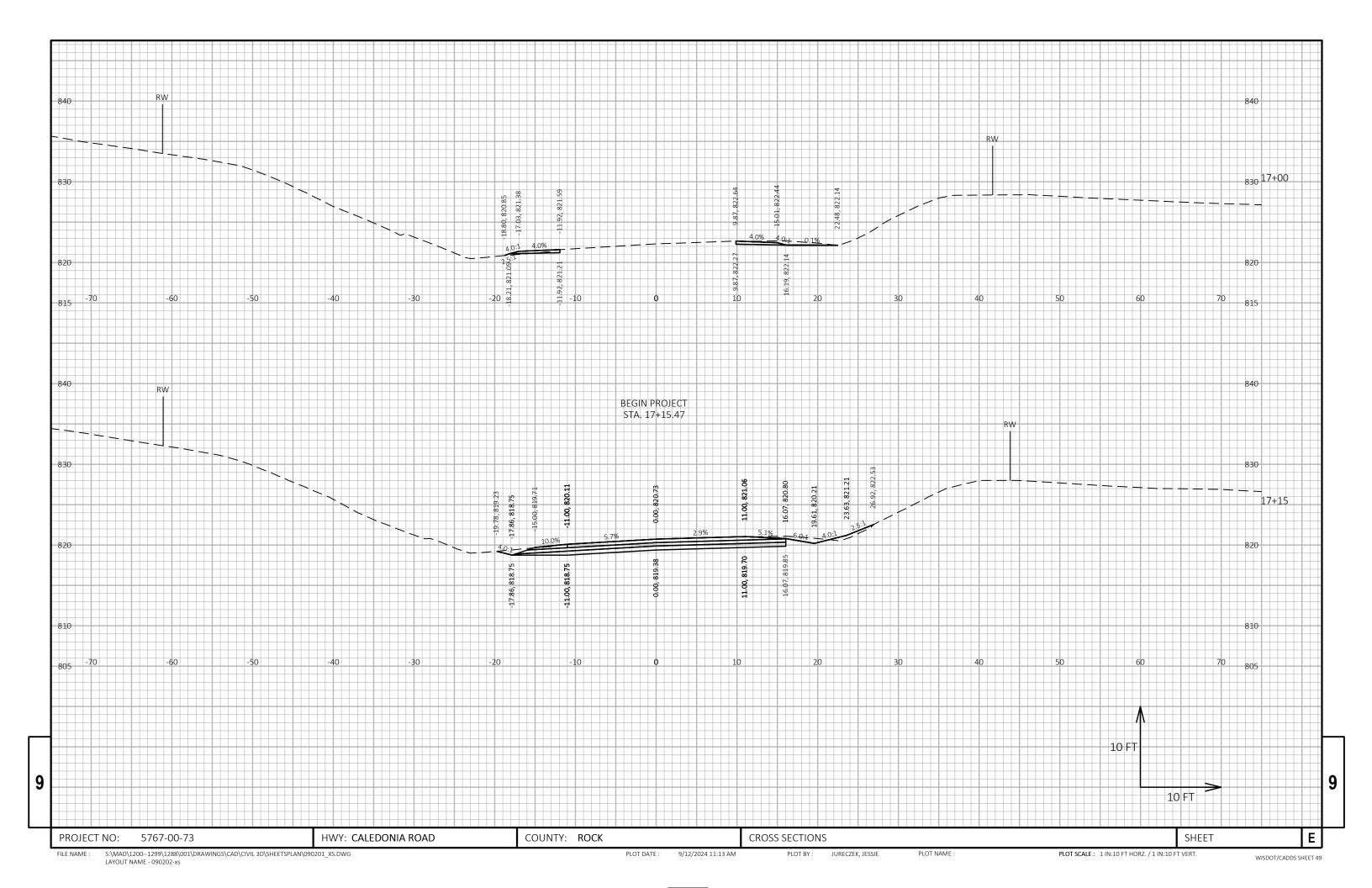
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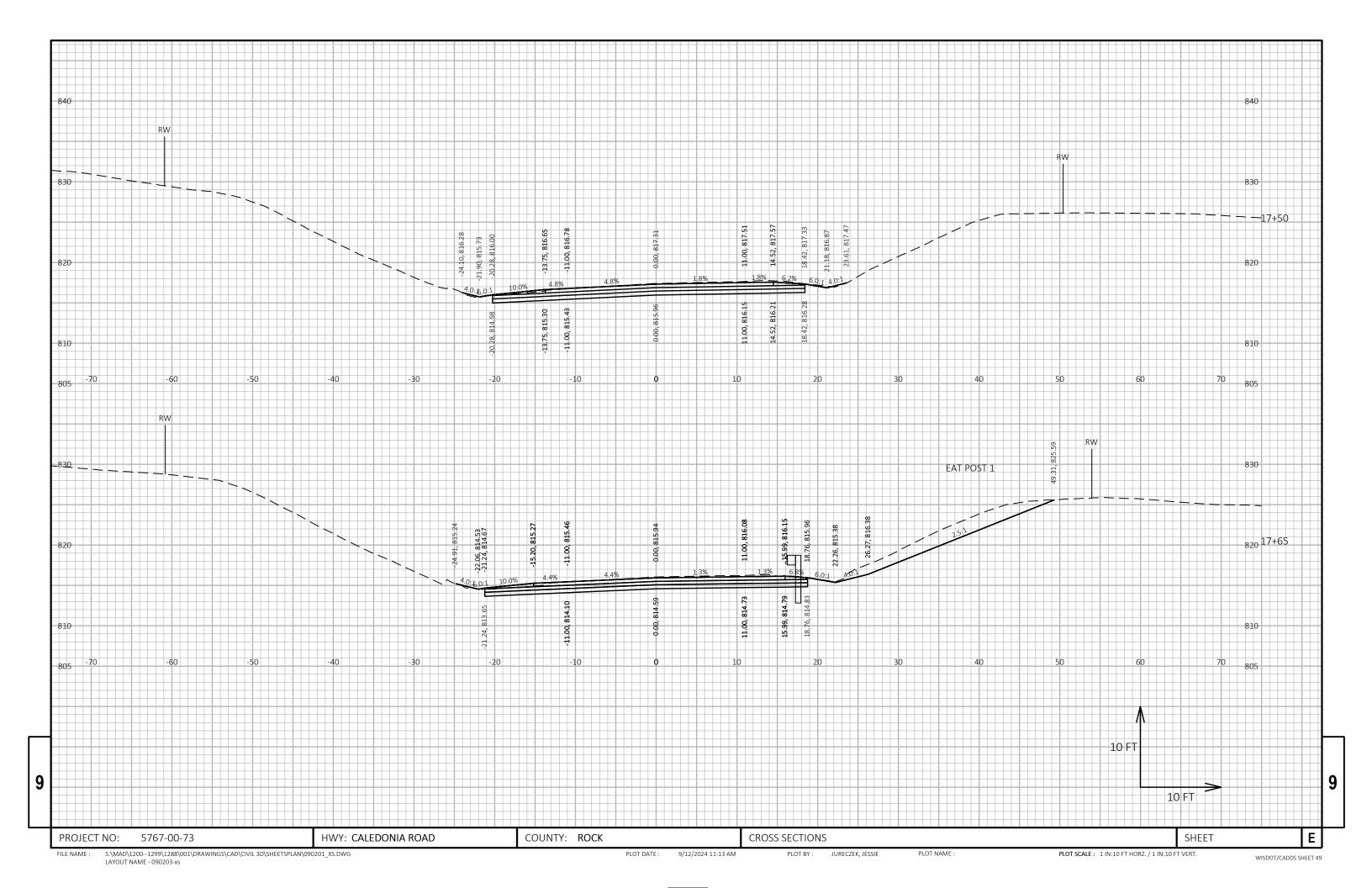
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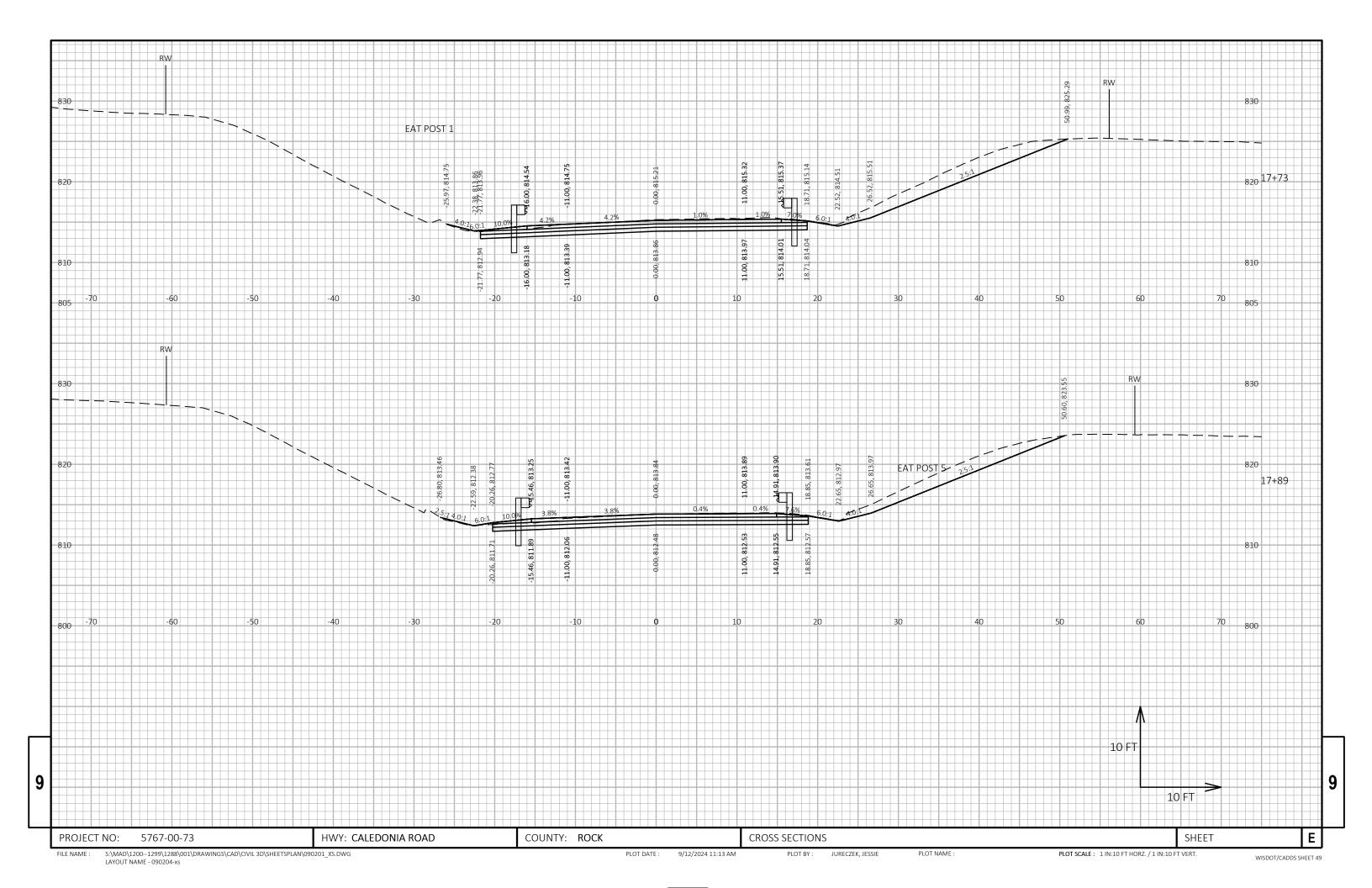
PROJECT NO: 5767-00-73 HWY: CALEDONIA ROAD COUNTY: ROCK EARTHWORK SHEET: **E**

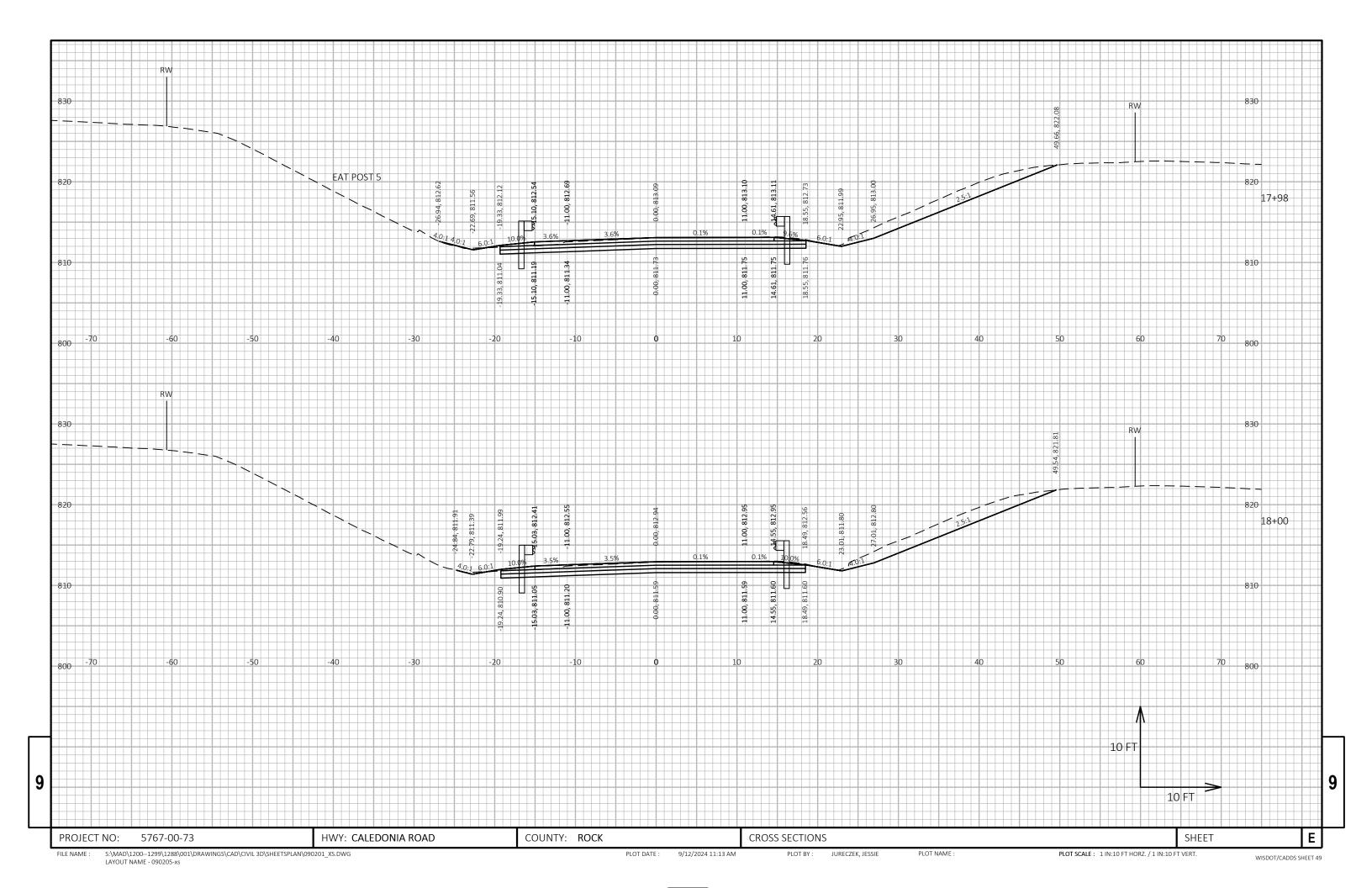
FILE NAME : _____ PLOT BY : _____ PLOT NAME : PLOT SCALE : 1" = 1" WISDOT/CADDS SHEET 42

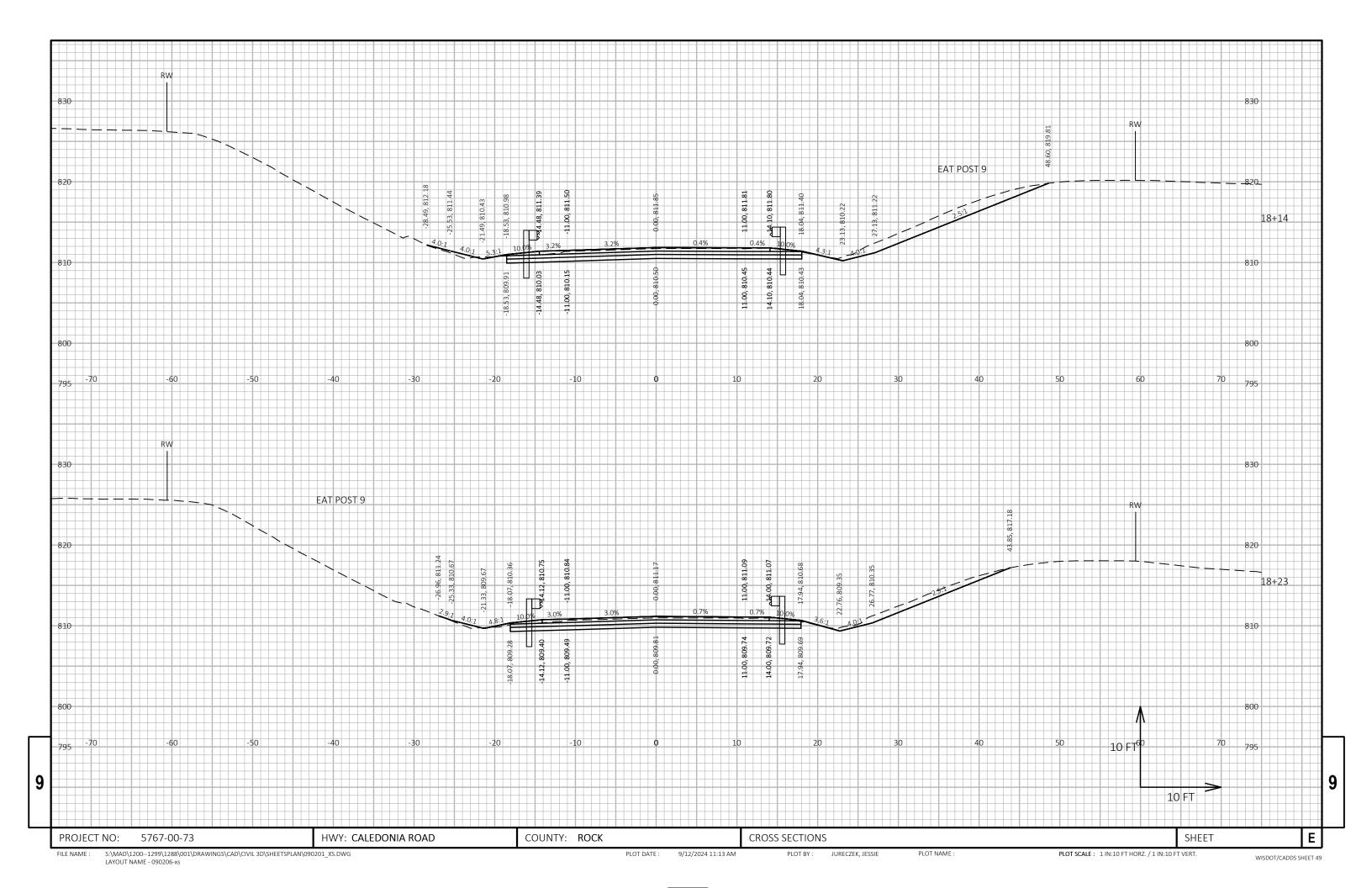


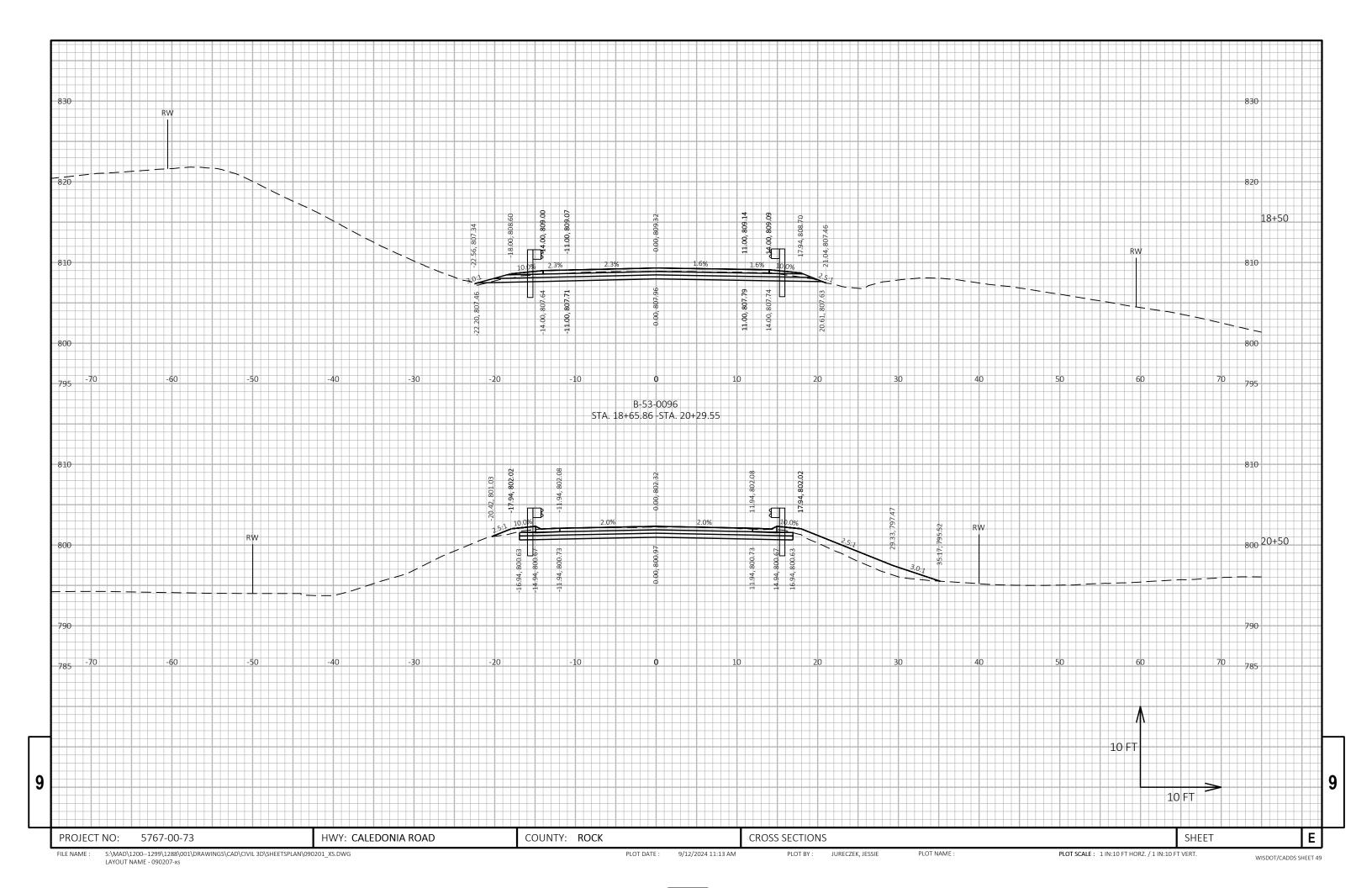


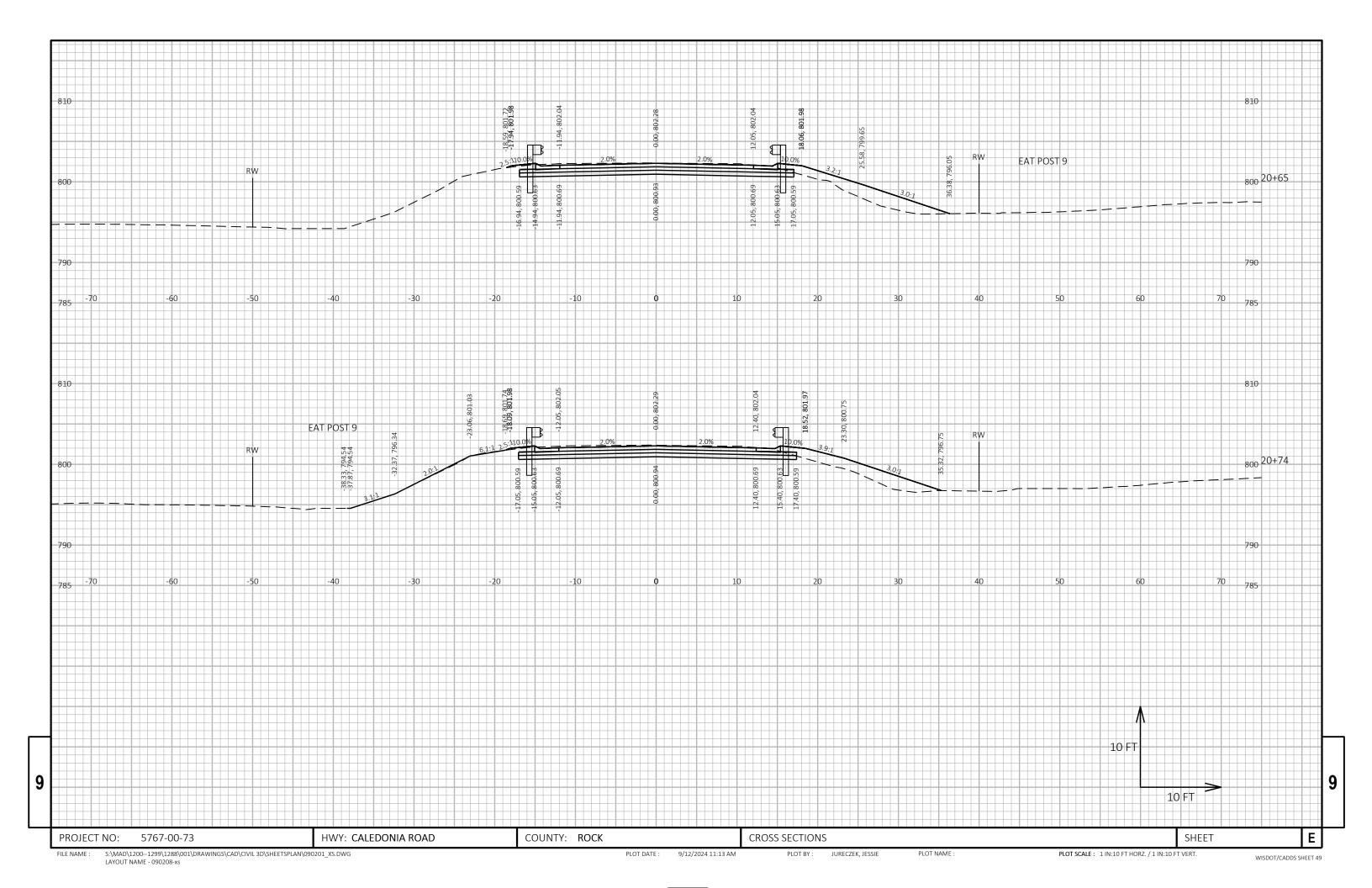


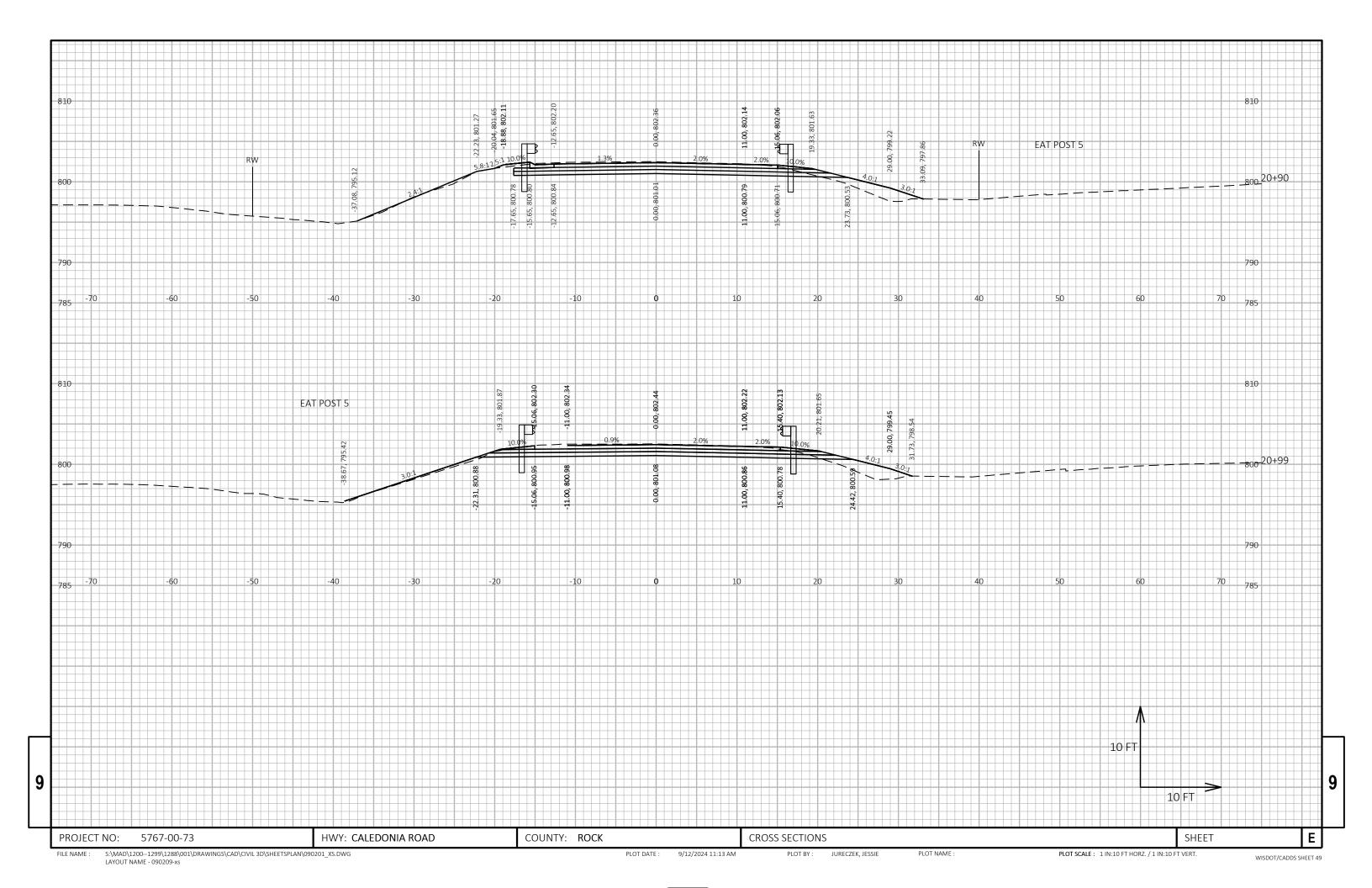


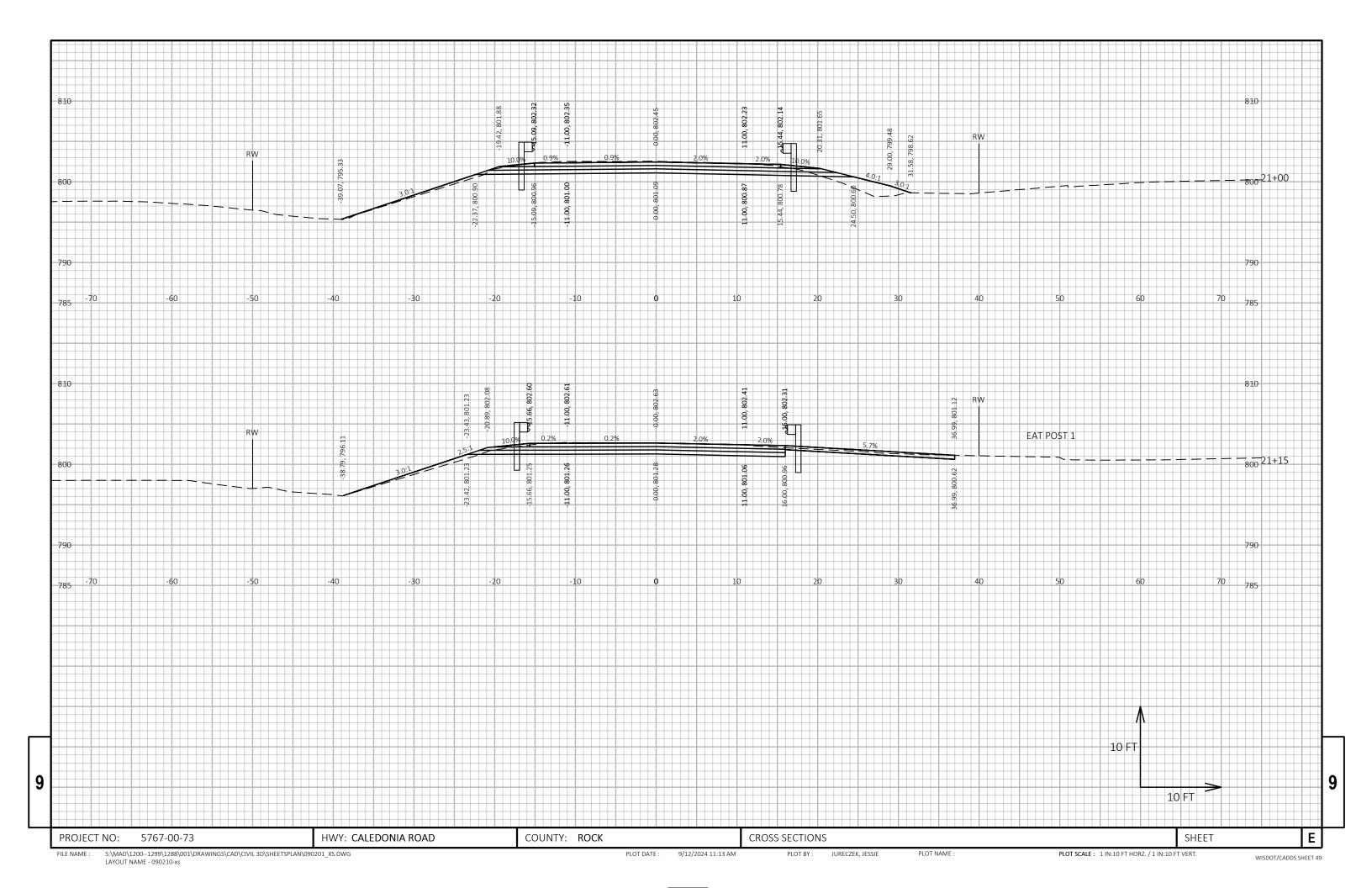


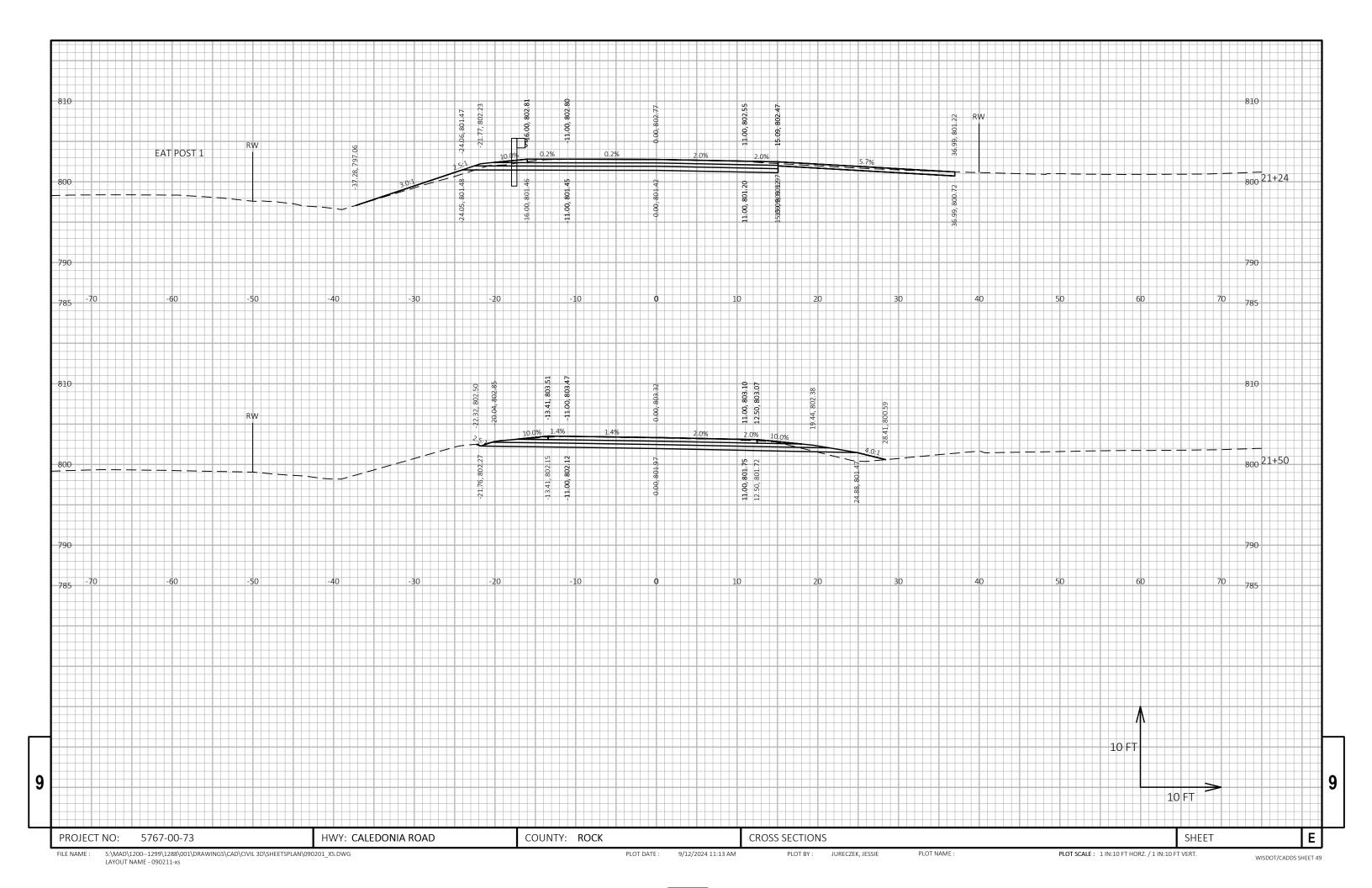


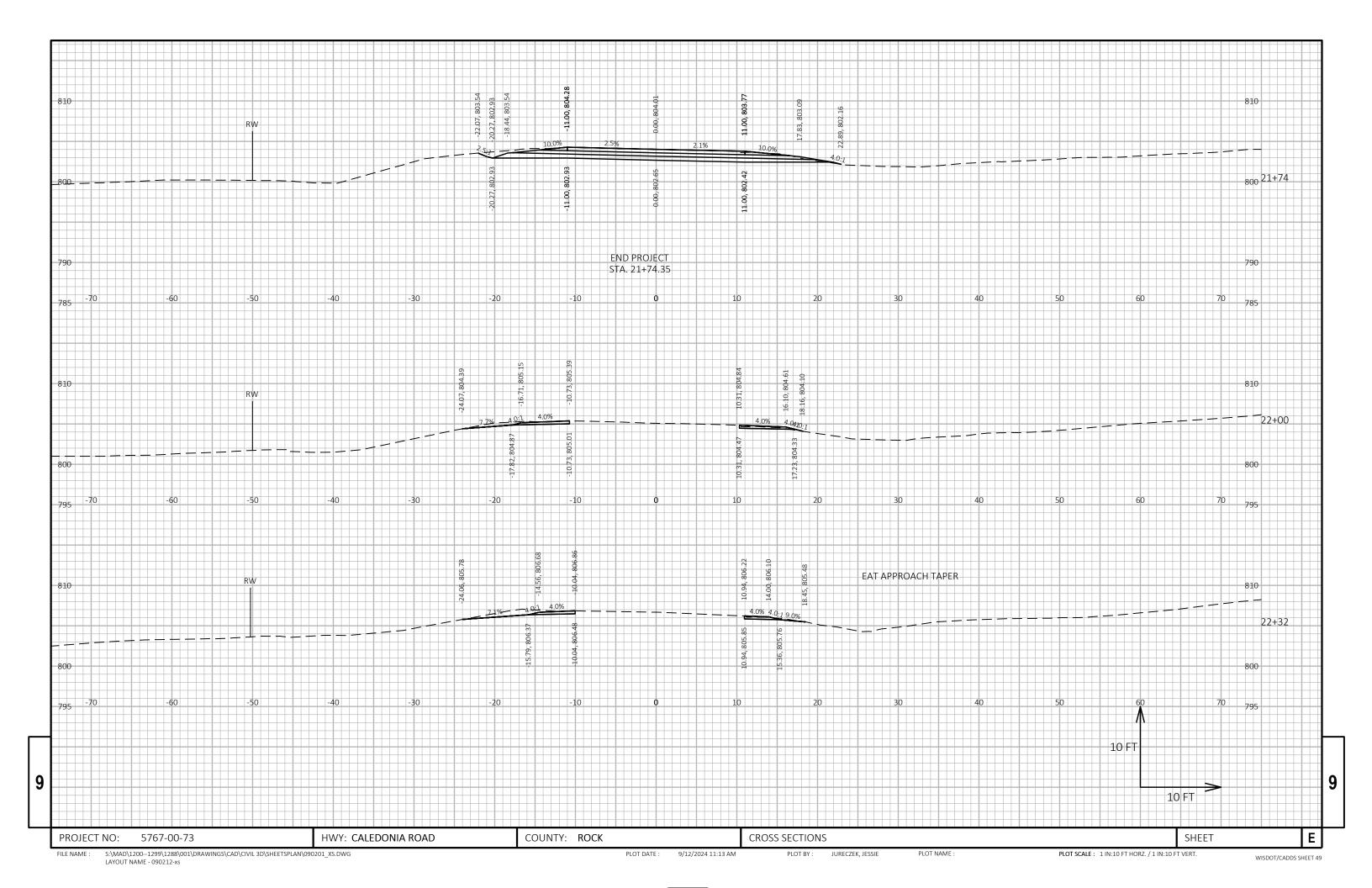


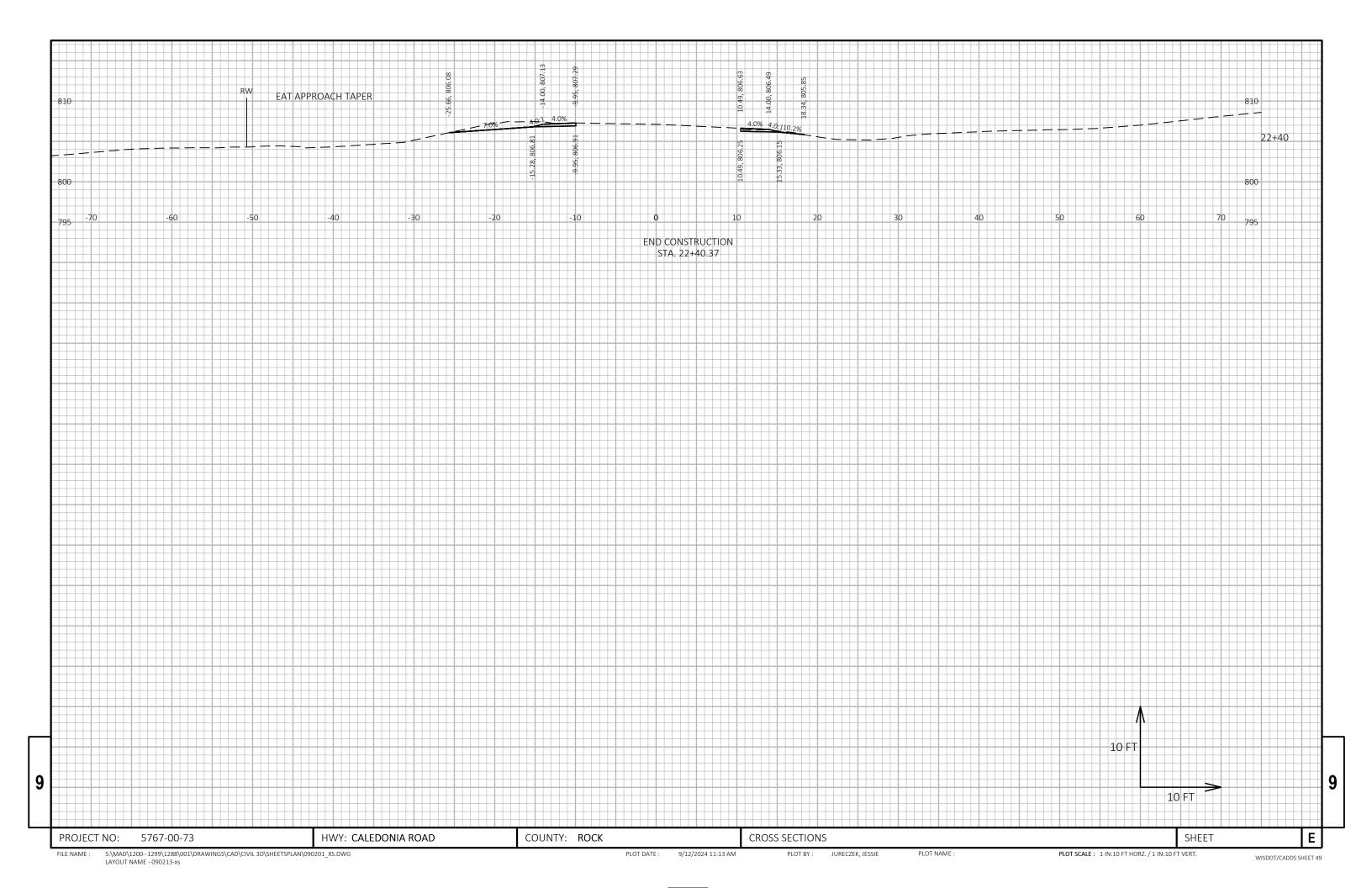












Notes



Wisconsin Department of Transportation

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