DECEMBER 2025

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Right of Way Plat

Plan and Profile

Cross Sections

Section No.

Section No. Section No.

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS = 62

AADT

A.A.D.T.

DESIGN SPEED

D.H.V.

D.D.

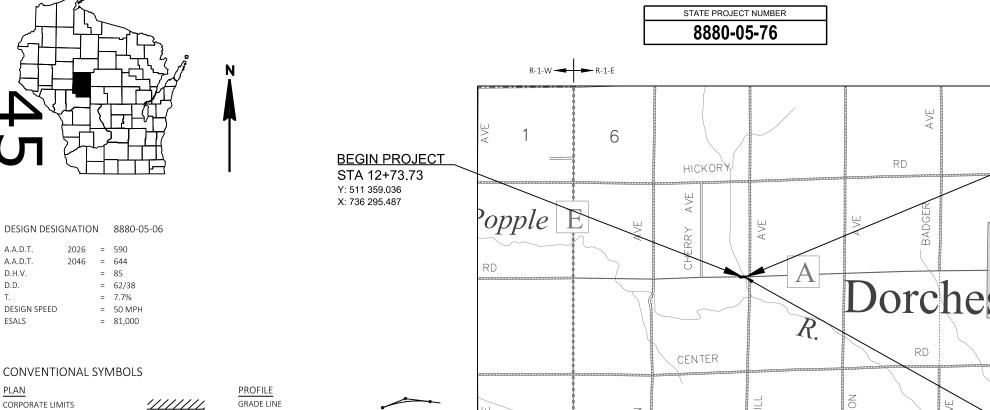
STATE OF WISCONSIN ORDER OF SHEETS Section No. **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Estimate of Quantities Section No.

PLAN OF PROPOSED IMPROVEMENT

CTH E - DORCHESTER

BR N FORK POPPLE RVR BR B-10-0261

CTH A **CLARK COUNTY**



CONVENTIONAL SYMBOLS

2026 = 590

2046 = 644 = 85

> = 62/38 = 7.7%

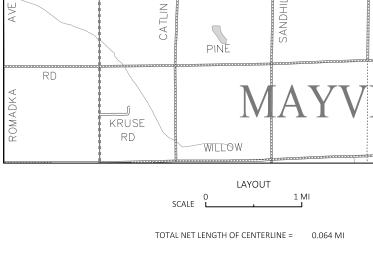
= 50 MPH = 81,000





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

T-29-N

END PROJECT

STRUCTURE B-10-0261

STA 13+50

STA 14+26.27

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

ACCEPTED FOR

CLARK COUNTY

FEDERAL PROJECT

PROJECT WISC 2026091 CONTRACT

1

STATE PROJECT

8880-05-76



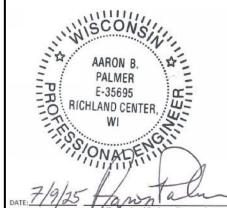
2025.07.09 14:04:37 -05'00'

(Signature and Title of Official)

ORIGINAL PLANS PREPARED BY



619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WISCONSIN 53588 PHONE (608) 588-7866 FAX (608) 588-7954



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

WESTBROOK ASSOCIATED ENGINEERS, INC Surveyor Designer Project Manage

TOU YANG, P.E

PPROVED FOR THE DEPARTMENT DATE: 7/23/2025



POWER POLE

TELEPHONE POLE

ERIK MEYER

RD

RD

RD

RD

STANDARD ABBREVIATIONS ARUT ABUTMENT NOM NOMINAL NORMAL CROWN NORTHBOUND AGG AGGREGATE NB АН AHFAD NO NUMBER ANGLE PAVT PAVEMENT AADT ANNUAL AVERAGE DAILY TRAFFIC PLE PERMANENT LIMITED EASEMENT AEW PC APRON ENDWALL POINT OF CURVATURE ΔSPH ASPHALTIC. PΙ POINT OF INTERSECTION PT POINT OF TANGENCY BACK BAD BASE AGGREGATE DENSE PCC PORTLAND CEMENT CONCRETE BL OR B/L BASE LINE LB POUND BENCH MARK PSI POUNDS PER SQUARE INCH CL OR C/L CENTER LINE PRIVATE ENTRANCE CENTRAL ANGLE OR DELTA PROJ PROJECT COMMERCIAL ENTRANCE CF PΙ PROPERTY LINE CONC CONCRETE PRW PROPOSED RIGHT OF WAY CONST CONSTRUCTION RL OR R/L CP CONTROL POINT REFERENCE LINE CO COUNTY RFOD REQUIRED CTH COUNTY TRUCK HIGHWAY RT RIGHT CY CUBIC YARD RHF RIGHT HAND FORWARD R/W CP CUI VERT PIPE RIGHT OF WAY EAT **ENERGY ABSORBING TERMINAL** RD ROAD EQUIVALENT SINGLE AXLE LOADS ESALS RDWY ROADWAY FXC. **FXCAVATION** SHOULDER. SHI DR FRS **EXCAVATION BELOW SUBGRADE** SW SIDEWALK **EXIST EXISTING** SOUTHBOUND SB FERT FERTILIZER **SPECS** SPECIFICATIONS FIELD ENTRANCE SQUARE FEET SF FL OR F/L FLOW LINE SY SQUARE YARD STANDARD DETAIL DRAWINGS FOOT SDD HES HIGH EARLY STRENGTH STH STATE TRUNK HIGHWAY HIGHWAY FASEMENT STA STATION HF CWT HUNDRED WEIGHT SF SUPERELEVATION SL OR S/I IN DIA INCH DIAMETER SURVEY LINE INSIDE DIAMETER TEMP TEMPORARY INTERS INTERSECTION TEMPORARY INTEREST INTERSTATE HIGHWAY TLE TEMPORARY LIMITED EASEMENT TRUCKS (PERCENT OF) INVFRT JOINT JΤ TYP TYPICAL ΙT LEFT USH UNITED STATES HIGHWAY LEFT HAND FORWARD LHF VARIABLE LENGTH OF CURVE VERTICAL CURVE VC LINEAR FOOT 1 F VPC. VERTICAL POINT OF CURVATURE LC LONG CHORD OF CURVE VERTICAL POINT OF INTERSECTION VPI VPT VERTICAL POINT OF TANGENCY ONE THOUSAND GALLONS MGA WEST W ML OR M/L MATCH LINE

WISCONSIN DNR LIAISON

BRAD BETTHAUSER CENTRAL REGION 910 HWY 54 E BLACK RIVER FALLS, WI 54615 PHONE: 715-213-9064 EMAIL: BRADLEY.BETTHAUSER@WISCONSIN.GOV

COUNTY HIGHWAY COMMISSIONER

BRIAN DUFIL CLARK COUNTY HIGHWAY DEPARTMENT 511 W SOUTH STREET LOYAL, WI 54446 PHONE: 715-743-3680 EMAIL: BRIAN.DUELL@CO.CLARK.WI.US

WISDOT PROJECT MANAGER

TOU YANG, P.E. NW REGION LOCAL PROGRAM 718 W. CLAIREMONT AVENUE EAU CLAIRE, WI 54701 PHONE: 715-833-5570 EMAIL: TOU.YANG@DOT.WI.GOV

DESIGN CONSULTANT

AARON PALMER P.F. WESTBROOK ASSOCIATED ENGINEERS, INC 619 EAST HOXIE STREET SPRING GREEN, WI 53588 PHONE: 608-588-7866 EMAIL: APALMER@WESTBROOKENG.COM

UTILITIES CONTACTS

TAYLOR ELECTRIC COOPERATIVE ELECTRIC WADE MATYKA N1831 STATE HWY 13 MEDFORD, WI 54451 PHONF: 715-678-6204 EMAIL: WADE@TAYLORELECTRIC.ORG TDS TELECOMMUNICATIONS, LLC COMMUNICATIONS NATE ANDERSON 525 JUNCTION ROAD MADISON, WI 53717 PHONF: 715-965-0661 EMAIL: NATE.ANDERSON@TDSTELECOM.COM



RUNOFF COEFFICIENT TABLE

WESTBOUND

W/R

		HYDROLOGIC SOIL GROUP											
	A			В				С		D			
	SLOPE	RANGE	(PERCENT)	SLOPE	SLOPE RANGE (PERCENT)			RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS:	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38	
NOW CROPS.	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30	
MEDIAN STRIPTORF:	.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:	.7585												
ROOFS:						.75 -	95						
GRAVEL ROADS, SHOULDERS:						.40 -	60						

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES TYPICAL SECTIONS BEAM GUARD DETAILS PERMANENT SIGNING AND MARKING ALIGNMENT DETAILS AND CONTROL POINTS

GENERAL NOTES

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

THE CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

APPLY TACK COAT BETWEEN LAYERS OF HMA PAVEMENT AT A RATE OF 0.05 GAL/SY.

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

RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE. SUBBASE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD. THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER

THE CONTRACTOR SHALL PREPARE AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND SUBMIT THE PLAN TO WISDOT AND WDNR FOR REVIEW AT LEAST 14 DAYS PRIOR TO THE PRECONSTRUCTION CONFERENCES.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY

APPLY SEED, EROSION MAT, AND FERTILIZER TO ALL DISTURBED AREAS WITHIN 7 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

BIODEGRADABLE NON-NETTED MATTING SHALL BE USED ALONG STREAM CORRIDORS.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAW CUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

THE PROPOSED SHOULDER WIDTH SHOWN IN THE TYPICAL SECTIONS ARE MINIMUM WIDTH. PERPETUATE EXISTING SHOULDERS THAT ARE WIDER THAN WHAT IS SHOWN IN THE TYPICAL SECTIONS.

THE CONTRACTOR'S PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE

THE 5-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING ONE (1) 3-INCH LOWER LAYER AND ONE (1) 2-INCH UPPER LAYER. THE PREFERRED LOWER LAYER IS 3-INCHES OF 3 LT 58-28 S. THE PREFERRED UPPER LAYER IS 2-INCHES OF 4 LT 58-28 S

THE 2-INCH ASPHALTIC SURFACE OVERLAY SHALL BE CONSTRUCTED USING ONE (1) 2-INCH LAYER. THE PREFERRED LAYER IS 2-INCHES OF 4 LT 58-28 S.

SAWCUTS, AS SHOWN ON THE PLANS, ARE SUGGESTED LOCATIONS AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER TO BETTER SUIT FIELD CONDITIONS.

PRIOR TO PLACEMENT OF BEAM GUARD, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED.

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN PAVING OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO DRIVEWAYS SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER OPERATIONS ARE COMPLETED. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

DO NOT DRIVE OR STORE EQUIPMENT, OR STORE CONSTRUCTION MATERIALS IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS.

ADJUST DITCH GRADING AS NECESSARY TO FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE

PROJECT NO: 8880-05-76 HWY: CTH A

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = <u>0.345</u> ACRES

TOTAL PROJECT AREA = 0.585 ACRES

COUNTY: CLARK

GENERAL NOTES

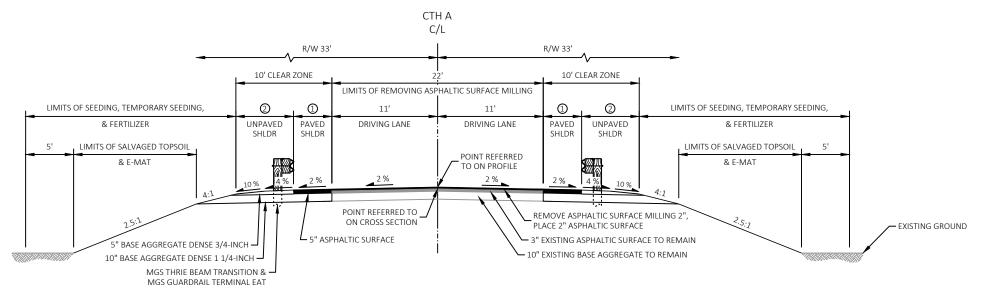
PLOT BY:

PLOT NAME

PLOT SCALE :

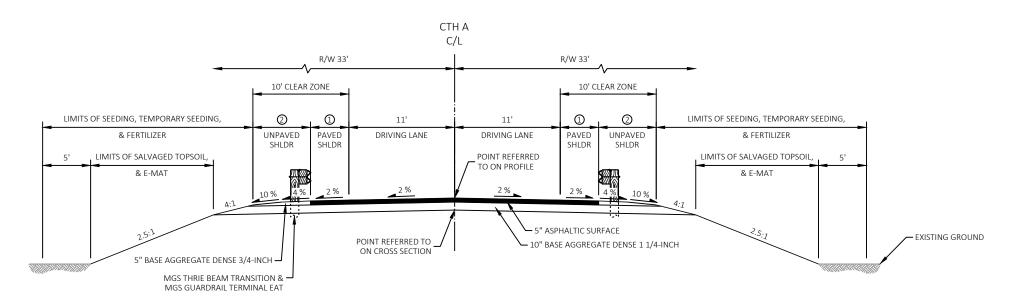
SHEET





FINISHED TYPICAL SECTION - PAVEMENT REPLACEMENT

STA 11+81.00 - STA 12+73.73 STA 14+26.27 - STA 15+19.00

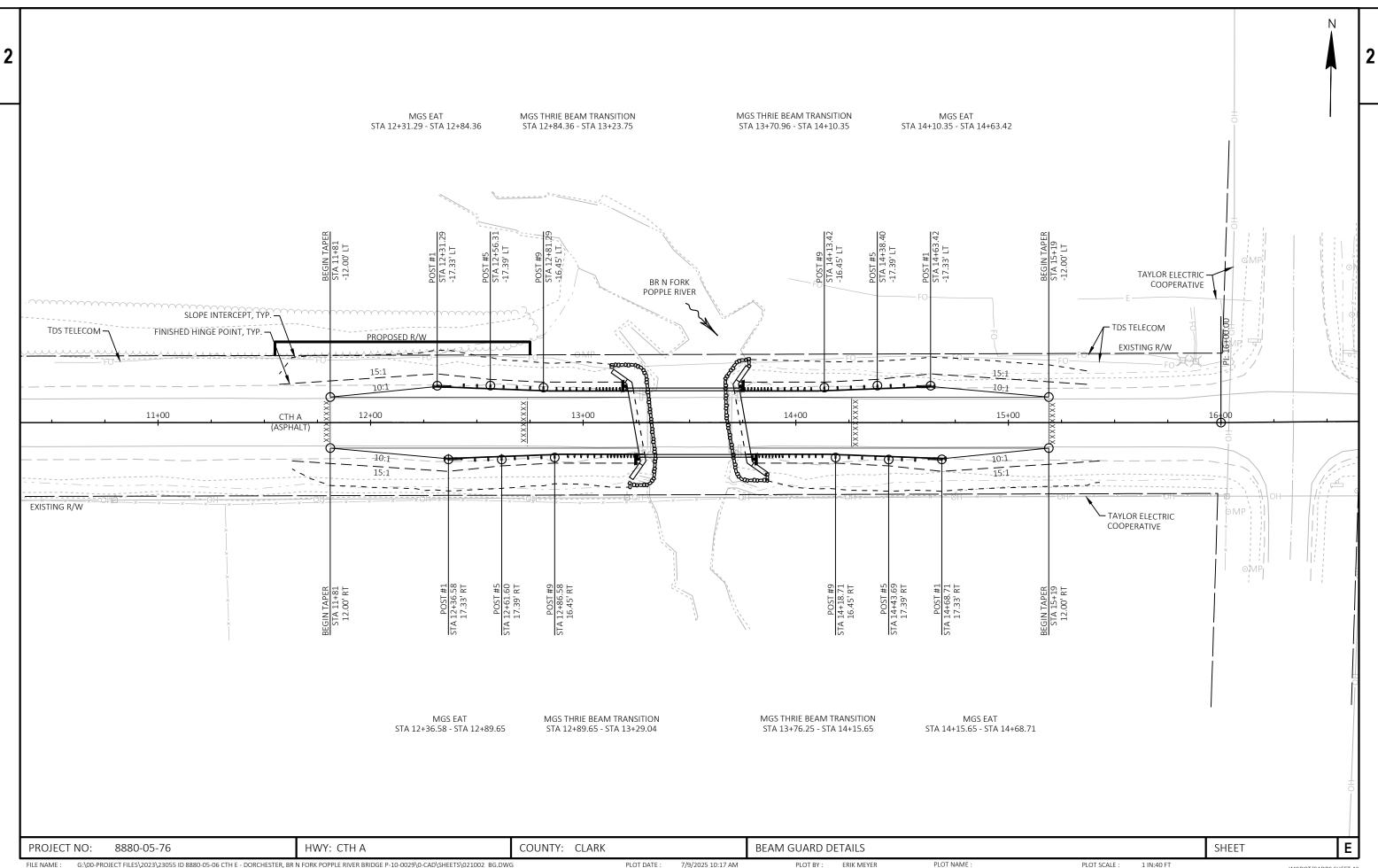


FINISHED TYPICAL SECTION - FULL RECONSTRUCTION

STA 12+73.73 - STA 14+26.27

- PAVE TO FRONT FACE OF BEAM GUARD. VARIES 4' TO 6' WITH EAT TAPER.
- 2 VARIES FROM 4' TO 5'11" WITH BEAM GUARD TAPER.

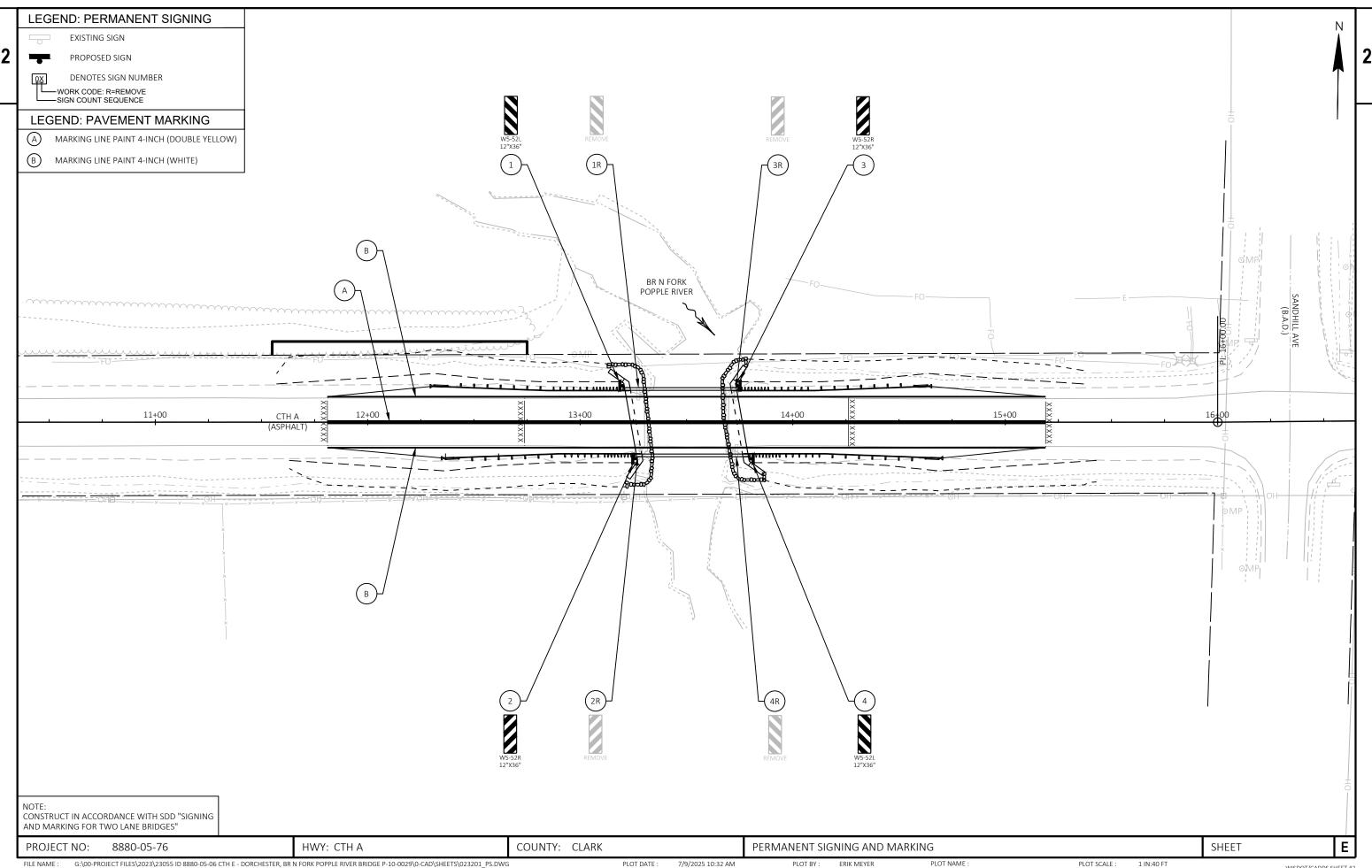
PROJECT NO: 8880-05-76 HWY: CTH A COUNTY: CLARK TYPICAL SECTIONS SHEET **E**

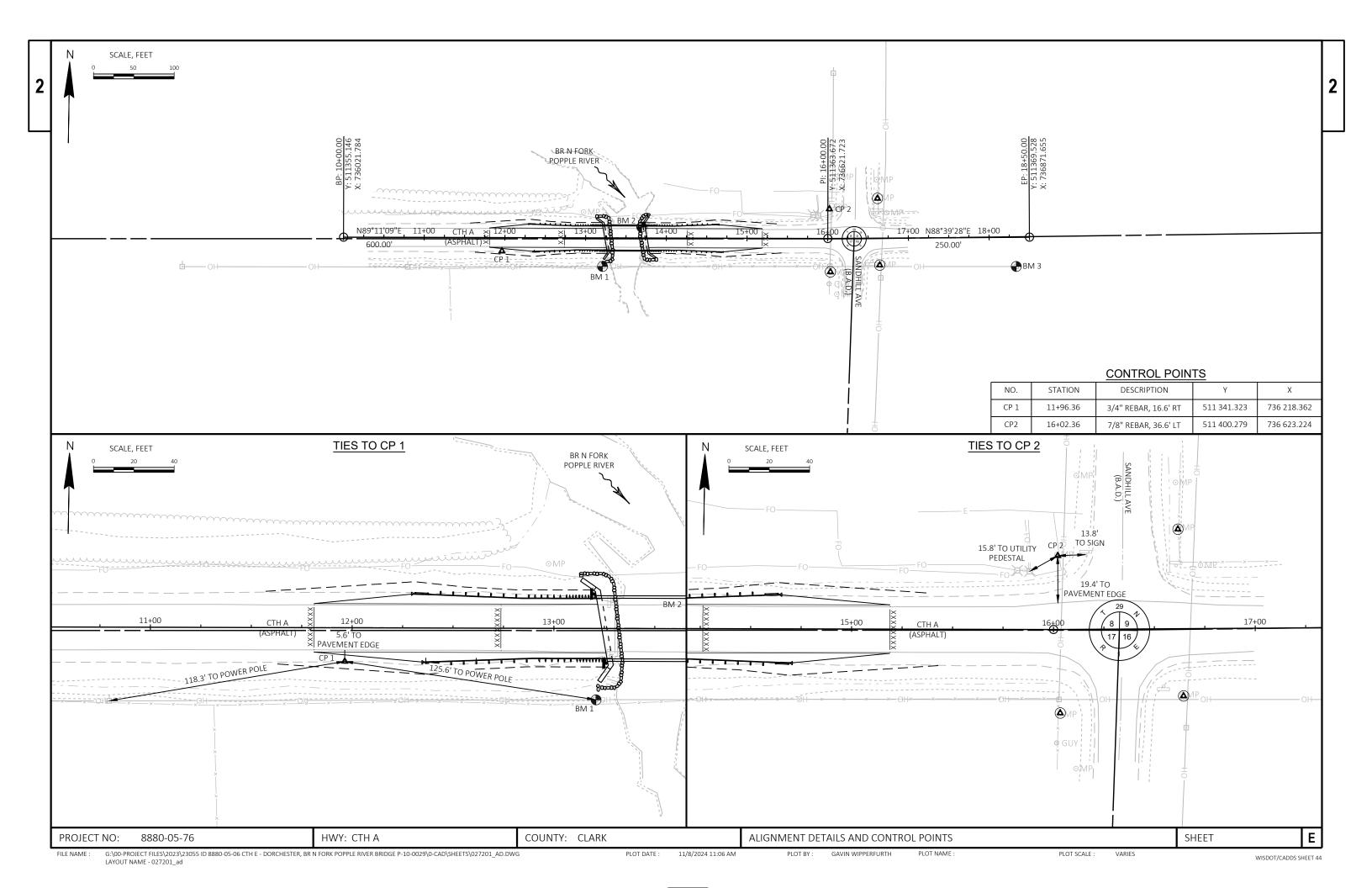


G:\00-PROJECT FILES\2023\23055 ID 8880-05-06 CTH E - DORCHESTER, BR N FORK POPPLE RIVER BRIDGE P-10-0029\0-CAD\SHEETS\021002_BG.DWG LAYOUT NAME - 021002_bg

PLOT SCALE :

WISDOT/CADDS SHEET 42





					8880-05-76
Line	Item	Item Description	Unit	Total	Qty
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-10-29	EACH	1.000	1.000
0004	204.0120	Removing Asphaltic Surface Milling	SY	480.000	480.000
0006	205.0100	Excavation Common	CY	238.000	238.000
8000	205.0508.S	Excavation, Hauling, and Disposal of Potential Creosote Contaminated Soil	TON	183.000	183.000
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-10-0261	EACH	1.000	1.000
0012	208.0100	Borrow	CY	164.000	164.000
0014	210.1500	Backfill Structure Type A	TON	340.000	340.000
0016	213.0100	Finishing Roadway (project) 01. 8880-05-76	EACH	1.000	1.000
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	124.000	124.000
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	600.000	600.000
0022	455.0605	Tack Coat	GAL	50.000	50.000
0024	465.0105	Asphaltic Surface	TON	193.000	193.000
0026	502.0100	Concrete Masonry Bridges	CY	206.000	206.000
0028	502.3200	Protective Surface Treatment	SY	259.000	259.000
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	4,730.000	4,730.000
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	30,760.000	30,760.000
0034	513.4061	Railing Tubular Type M	LF	110.000	110.000
0036	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000
0038	550.0500	Pile Points	EACH	16.000	16.000
0040	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	800.000	800.000
0042	606.0300	Riprap Heavy	CY	70.000	70.000
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	130.000	130.000
0046	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600
0048	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0050	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8880-05-76	EACH	1.000	1.000
0052	619.1000	Mobilization	EACH	1.000	1.000
0054	624.0100	Water	MGAL	7.400	7.400

Line	Item	Item Description	Unit	Total	Qty
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-10-29	EACH	1.000	1.000
0004	204.0120	Removing Asphaltic Surface Milling	SY	480.000	480.000
0006	205.0100	Excavation Common	CY	238.000	238.000
8000	205.0508.S	Excavation, Hauling, and Disposal of Potential Creosote Contaminated Soil	TON	183.000	183.000
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-10-0261	EACH	1.000	1.000
0012	208.0100	Borrow	CY	164.000	164.000
0014	210.1500	Backfill Structure Type A	TON	340.000	340.000
0016	213.0100	Finishing Roadway (project) 01. 8880-05-76	EACH	1.000	1.000
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	124.000	124.000
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	600.000	600.000
0022	455.0605	Tack Coat	GAL	50.000	50.000
0024	465.0105	Asphaltic Surface	TON	193.000	193.000
0024	502.0100	Concrete Masonry Bridges	CY	206.000	206.000
0028	502.3200	Protective Surface Treatment	SY	259.000	259.000
0028	502.3200	Bar Steel Reinforcement HS Structures	LB	4,730.000	4,730.000
0030	505.0400	Bar Steel Reinforcement HS Coated Structures	LB		
				30,760.000	30,760.000
0034	513.4061	Railing Tubular Type M	LF	110.000	110.000
0036	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000
0038	550.0500	Pile Points	EACH	16.000	16.000
0040	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	800.000	800.000
0042	606.0300	Riprap Heavy	CY	70.000	70.000
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	130.000	130.000
0046	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600
0048	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0050	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8880-05-76	EACH	1.000	1.000
0052	619.1000	Mobilization	EACH	1.000	1.000
0054	624.0100	Water	MGAL	7.400	7.400
0056	625.0500	Salvaged Topsoil	SY	525.000	525.000
0058	628.1504	Silt Fence	LF	860.000	860.000
0060	628.1520	Silt Fence Maintenance	LF	1,372.000	1,372.000
0062	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0064	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0066	628.2008	Erosion Mat Urban Class I Type B	SY	525.000	525.000
0068	628.6005	Turbidity Barriers	SY	160.000	160.000
0070	629.0210	Fertilizer Type B	CWT	0.750	0.750
0070	630.0130	Seeding Mixture No. 30	LB	55.000	55.000
0072	630.0200	Seeding Temporary	LB	35.000	35.000
0074	630.0500	Seed Water	MGAL	26.000	26.000
0078	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0800	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0082	638.2602	Removing Signs Type II	EACH	4.000	4.000
0084	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0086	642.5001	Field Office Type B	EACH	1.000	1.000
8800	643.0420	Traffic Control Barricades Type III	DAY	1,475.000	1,475.000
0090	643.0705	Traffic Control Warning Lights Type A	DAY	2,655.000	2,655.000
0092	643.0900	Traffic Control Signs	DAY	885.000	885.000
0094	643.5000	Traffic Control	EACH	1.000	1.000
0096	645.0111	Geotextile Type DF Schedule A	SY	72.000	72.000
0098	645.0120	Geotextile Type HR	SY	155.000	155.000

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Estimate O	f Quantities
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8880-05-76

Page 2

Line	Item	Item Description	Unit	Total	Qty	
0100	646.1005	Marking Line Paint 4-Inch	LF	1,352.000	1,352.000	
0102	650.4500	Construction Staking Subgrade	LF	334.000	334.000	
0104	650.5000	Construction Staking Base	LF	334.000	334.000	
0106	650.6501	Construction Staking Structure Layout (structure) 01. B-10-0261	EACH	1.000	1.000	
0108	650.9911	Construction Staking Supplemental Control (project) 01. 8880-05-76	EACH	1.000	1.000	
0110	650.9920	Construction Staking Slope Stakes	LF	334.000	334.000	
0112	690.0150	Sawing Asphalt	LF	92.000	92.000	
0114	715.0502	Incentive Strength Concrete Structures	DOL	1,236.000	1,236.000	
0116	999.2005.S	Maintaining Bird Deterrent System (station) 01. 13+50	EACH	1.000	1.000	
0118	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000	
0120	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	

NOTE: ALL ITEMS CATEGORY 0010 UNLESS NOTED OTHERWISE REMOVING ASPHALTIC SURFACE MILLING	EXCAVATION, HAULING, AND DISPOSAL OF POTENTIAL CREOSOTE CONTAMINATED SOIL					EARTHWORK						
204.0120 STATION TO STATION LOCATION SY 11+81.00 - 12+73.73 WEST APPROACH 240 14+26.27 - 15+19.00 EAST APPROACH 240 TOTAL 480	205.0508.S LOCATION TON WEST ABUTMENT 91 EAST ABUTMENT 92 TOTAL 183	DIVISION WEST APPROACH EAST APPROACH SUBTOTAL	FROM/TO STATION 1 11+57.00/13+21.7 13+78.21/15+43.0	205.0100 COMMON EXCAVATION (1) CUT (2) 9 116 00 122 238	SALVAGED/UNUSABLE PAVEMENT MATERIAL (3) 59 60 119	AVAILABLE MATERIAL (4) 57 62 119	UNEXPANDED FILL 83 143 226	EXPANDED FIL (5) FACTOR 1.25 104 179 283	MASS ORDINATE +, (6) -47 -117 -164	/- WASTE (7)	208.0100 BORROW	
BASE AGGREGATE DENSE 305.01 BASE AGGREGATE DENSE 305.01 BASE AGGREGATE DENSE AGGREGATE DENSE 305.01 BASE AGGREGATE DENSE AGGREGATE DENSE 305.01 BASE AGGREGATE DENSE AGG	BASE ATE AGGREGATE E DENSE H 1 1/4-INCH WATER	GRAND TOTAL	(3) SALVAGED/UNL (4) AVAILABLE MAT (5) EXPANDED FILL (6) THE MASS ORDI INDICATES A SHOR	238 MMON IS THE SU SABLE PAVEMENT SABLE PAVEMENT ERIAL = CUT - SALV FACTOR = 1.25, EX NATE + OR - QTY C TAGE OF MATERIA	119	N CUT. EXISTING ASPH MENT MATERIA DED FILL * FILI ISION. PLUS QU	226 HALTIC PAVEMEN AL L FACTOR UANTITY INDICAT	Z83 IT. TES AN EXCESS C	-164 OF MATERIAL WITHIN T		164	
ASPHALTIC SURFACE 455.0605 465.0100 TACK COAT ASPHALTIC SU STATION TO STATION LOCATION GAL TON 11+81.00 - 13+23.73 WEST APPROACH 25 97 13+76.27 - 15+19.00 EAST APPROACH 25 96 TOTAL 50 193		614.2500 MGS THRIE BEAM TRANSITION TO ON LF DACH, LT 39.4 DACH, RT 39.4 ACH, LT 39.4 ACH, RT 39.4 ACH, RT 39.4	614.2610 MGS GUARDRAIL TERMINAL EAT EACH 1 1 1 1	11+57.00 11+63.00 13+73.61	- 13+19.38 WEST A - 13+26.39 WEST A - 15+37.00 EAST A - 15+43.00 EAST A UND	OCATION APPROACH, LT APPROACH, RT APPROACH, LT APPROACH, RT ISTRIBUTED TOTAL	625.0500 SALVAGED TOPSOIL SY 113 105 84	628.2008 EROSION MAT URBAN CLASS I TYPE B SY 113 105 84 118 105 525	629.0210 630.0 FERTILIZER MIXT' TYPE B NO. CWT LE 0.17 12 0.15 11 0.13 10 0.15 11 0.15 11 0.75 55	NG JRE SEEI 30 TEMP L	DING S DRARY W B N 7 7 7 6 7 7	0.0500 SEED VATER MGAL 5.8 5.3 4.6 5.1 5.2 26.0
SILT SILT FENCE MAINT STATION TO STATION LOCATION LF 11+54 - 13+26 WEST APPROACH, LT 176 3 11+61 - 13+31 WEST APPROACH, RT 172 3 13+70 - 15+43 EAST APPROACH, RT 175 3 13+76 - 15+38 EAST APPROACH, LT 163 3 UNDISTRIBUTED 174	1520 FENCE ENANCE _F 52 44 50 26 372	TION EACH 1-05-76 4	628.1910 MOBILIZATIONS					TURBIDITY LOCATION WEST APPROACE EAST APPROACE UNDISTRIBUTE TOTAL	628.6005 SY CH 64 CH 61			

HWY: CTH A

10/20/2025 10:28 AM

COUNTY: CLARK

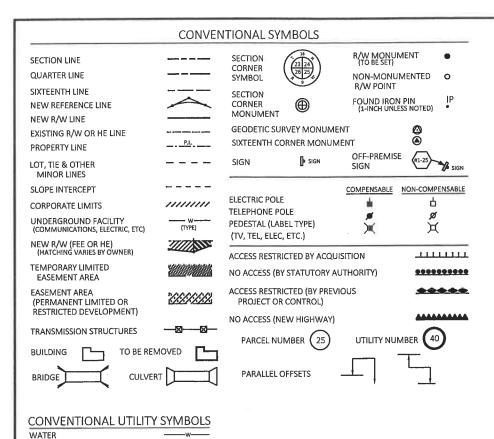
MISCELLANEOUS QUANTITIES

E

SHEET

PROJECT NO: 8880-05-76

NOTE: ALL ITEMS CATE	EGORY 0010 UNLESS NOTED OTHERWIS	E											
							PERMANENT SIGN 634.0612 POSTS WOOD	NING 637.2230 SIGNS	638.2602 REMOVING	638.3000			
			STATION	LOCATION	SIGN NUMBER	SIGN CODE	4X6-INCH X 12-FT EACH	TYPE II REFLECTIVE F SF	SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	REMARKS		
			13+26 WES 13+28 WES 13+29 WES 13+72 EAS	ST APPROACH, LT ST APPROACH, RT ST APPROACH, RT ST APPROACH, LT T APPROACH, LT T APPROACH, RT	2 2R 1R 3R	W5-52L W5-52R W5-52R W5-52L W5-52R	1 1	3 3	 1 1 1 1	1 1 1 1	BRIDGE HASH MARKS		
			13+74 EAS	T APPROACH, LT T APPROACH, RT	3	W5-52R W5-52L TOTAL	1 1 4	3 3 12	4	4	BRIDGE HASH MARKS BRIDGE HASH MARKS		
		TRAFFIC CON	NTROL										
	LOCATION	643.0420 TRAFFIC CONTROL BARRICADES DURATION TYPE III DAY NO. DAY	TYPE A	TRAFFIC CONTROL T SIGNS CC	13.5000 RAFFIC DNTROL EACH					STATION	MARKING LINE PA	646.1005	
	WEST APPROACH EAST APPROACH UNDISTRIBUTED PROJECT	59 9 531 59 9 531 59 7 413 TOTAL 25 1,475	18 1,062 18 1,062 9 531 45 2,655	7 413 5 295 3 177 15 885	 1					11+81 11+81	- 15+19 EDGELINE, I - 15+19 EDGELINE, F - 15+19 CENTERLIN	LT 338 SOLID WHITE RT 338 SOLID WHITE	_
		DL IN ACCORDANCE WITH SDD RAMP, OFF RAMP CLOSURES AI PLACEMENT SUBJECT TO EN	ND ADVANCED WIDT										
		CONSTRUCTION	STAKING										
		650.4500 650	CONST	CC RUCTION	650.9911.01 DNSTRUCTION STAKING JPPLEMENTAL	650.9920 CONSTRUCTION					SAWING AS STATION LOCATION	690.0150	
STATION	N TO STATION LOCATION	STAKING STA SUBGRADE B	AKING STRUCTUI ASE 01. B-1	RE LAYOUT	CONTROL 1. 8880-05-76 EACH	STAKING SLOPE STAKES LF					11+81.00 WEST APPR 12+73.73 WEST APPR	ROACH 23	
11+57 13+76		H 167 1	L67 - 	 1	 1	167 167 					14+26.27 EAST APPRI 15+19.00 EAST APPRI TOTAL	OACH 23 OACH <u>23</u>	
	TOTAL	334 3	334	1*	1	334							
* CATEGORY 0020 PROJECT NO:	8880-05-76	HWY: CTH A			COUNTY: (CLARK		MISO	CELLANEOU:	S QUANTITIES			SHEET



CONVENTIONAL ABBREVIATIONS

_____F0 ----

TELEPHONE

SANITARY SEWER STORM SEWER

ELECTRIC TOWER

ELECTRIC FIBER OPTIC

OVERHEAD TRANSMISSION LINES

ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT	RDE
CERTIFIED SURVEY MAP	CSM	EASEMENT	
CONCRETE	CONC	RIGHT	RT
COUNTY	CO	RIGHT OF WAY	R/W
COUNTY TRUNK HIGHWAY	CTH	SECTION	SEC
DISTANCE	DIST	SEPTIC VENT	SEPV
CORNER	COR	SQUARE FEET	SF
DOCUMENT NUMBER	DOC	STATE TRUNK HIGHWAY	STH
EASEMENT	EASE	STATION	STA
EXISTING	EX	TELEPHONE PEDESTAL	TP
GAS VALVE	GV	TEMPORARY LIMITED	TLE
GRID NORTH	GN	EASEMENT	
HIGHWAY EASEMENT	HE	TRANSPORTATION PROJECT PLAT	TPP
IDENTIFICATION	ID	UNITED STATES HIGHWAY	USH
LAND CONTRACT	LC	VOLUME	V
LEFT	LT		
MONUMENT	MON	CURVE DATA ABBREVIA	TIONS
NATIONAL GEODETIC SURVEY	NGS	LONG CHORD	LCH
NUMBER	NO	LONG CHORD BEARING	LCB
OUTLOT	OL	RADIUS	R
PAGE	P	DEGREE OF CURVE	D
POINT OF TANGENCY	PT	CENTRAL ANGLE	△/DELTA
PERMANENT LIMITED	PLE	LENGTH OF CURVE TANGENT	L T
EASEMENT		DIRECTION AHEAD	DA
POINT OF BEGINNING	POB	DIRECTION BACK	DB
POINT OF CURVATURE	PC		

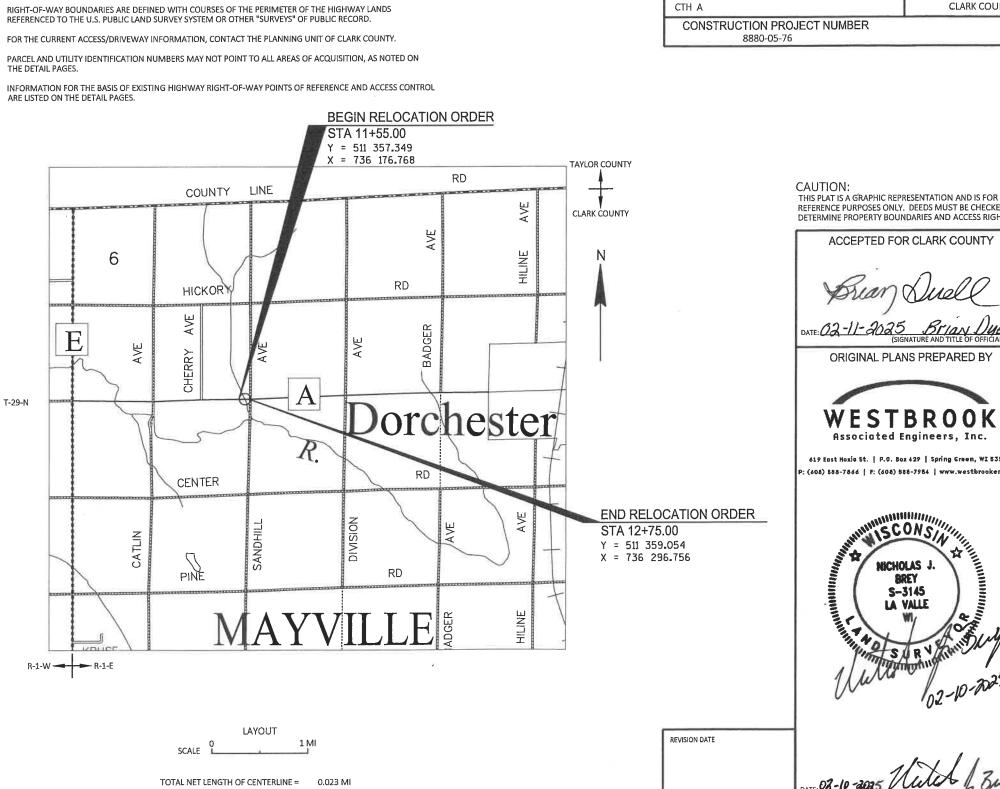
NOTES:

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

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY $\frac{3}{4}$ " X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

ARE LISTED ON THE DETAIL PAGES.



R/W PROJECT NUMBER SHEET TOTAL 8880-05-06 NUMBER SHEETS FEDERAL PROJECT NUMBER 4.01 2

PLAT OF RIGHT OF WAY REQUIRED FOR

CTH E - DORCHESTER BR N FORK POPPLE RVR BR. B-10-0261

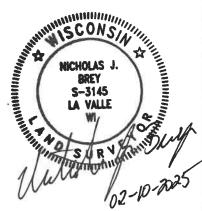
CLARK COUNTY

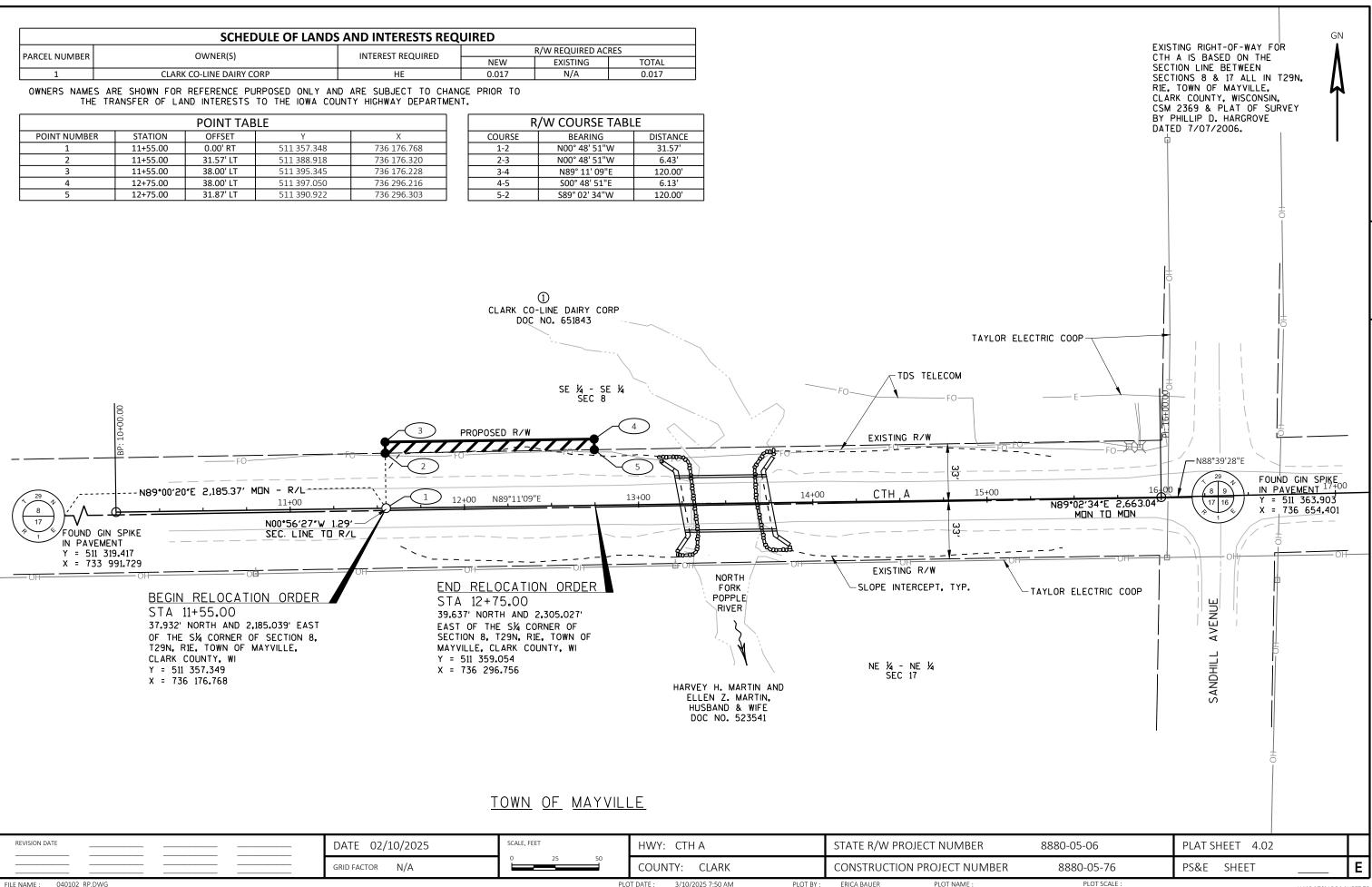
REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

ORIGINAL PLANS PREPARED BY



619 East Hoxie St. | P.O. Box 429 | Spring Green, WI 53585 P: (608) 588-7866 | F: (608) 888-7954 | www.westbrookeng.com



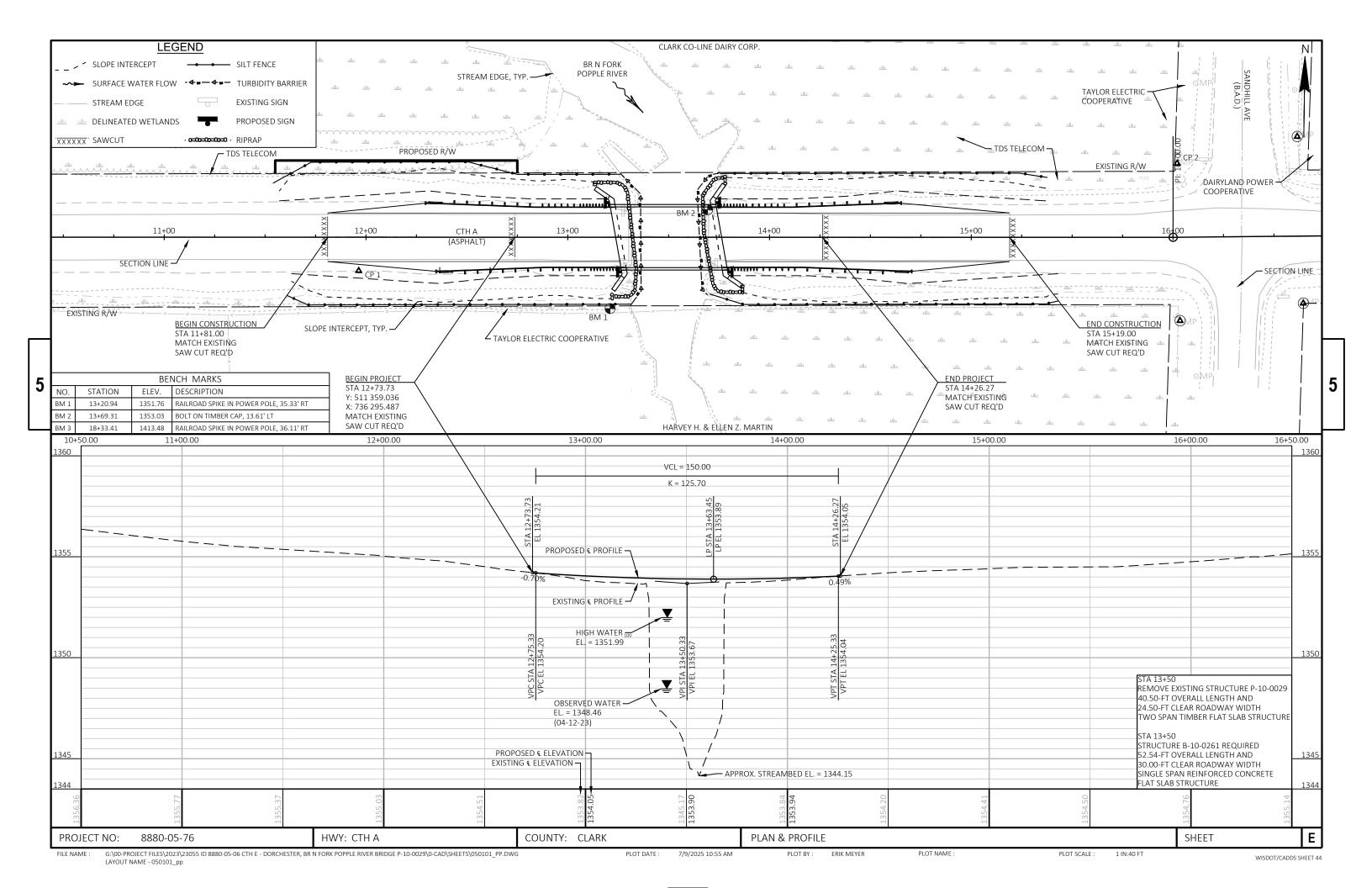


LAYOUT NAME - 040102 rp

ERICA BAUER

PLOT SCALE

WISDOT/CADDS SHEET 75



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14в42-07в	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	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)
14в45-05н	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-09в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15С11-10в	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

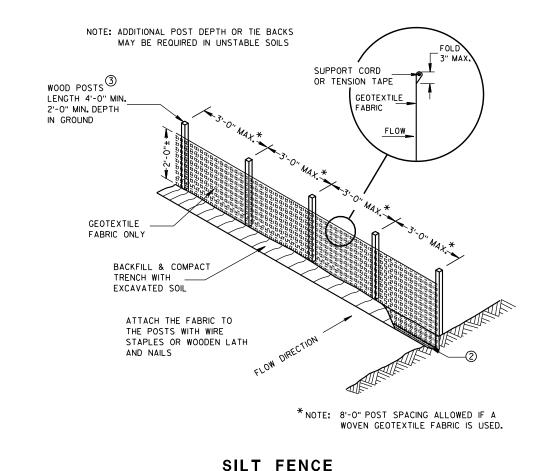
TYPICAL APPLICATION OF SILT FENCE

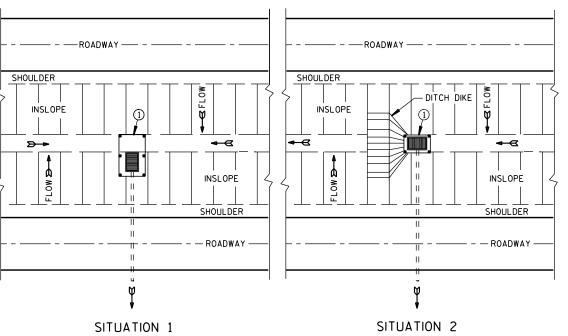
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b

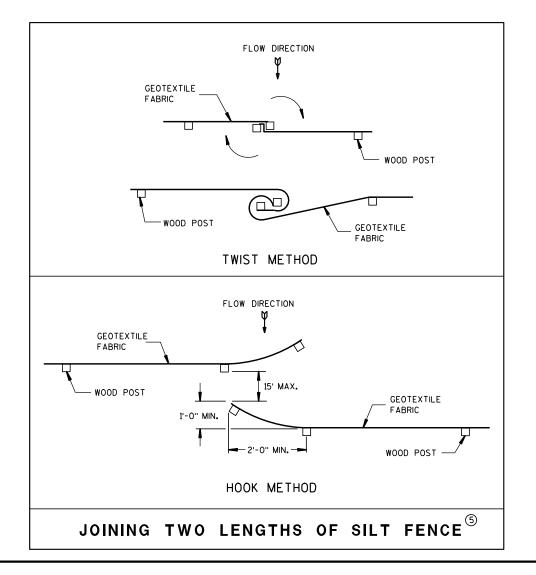
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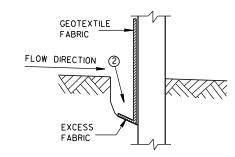
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



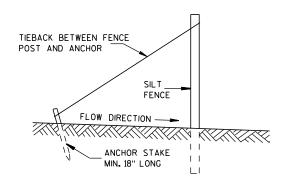
GENERAL NOTES

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.

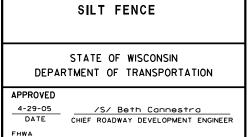


TRENCH DETAIL



SILT FENCE TIE BACK

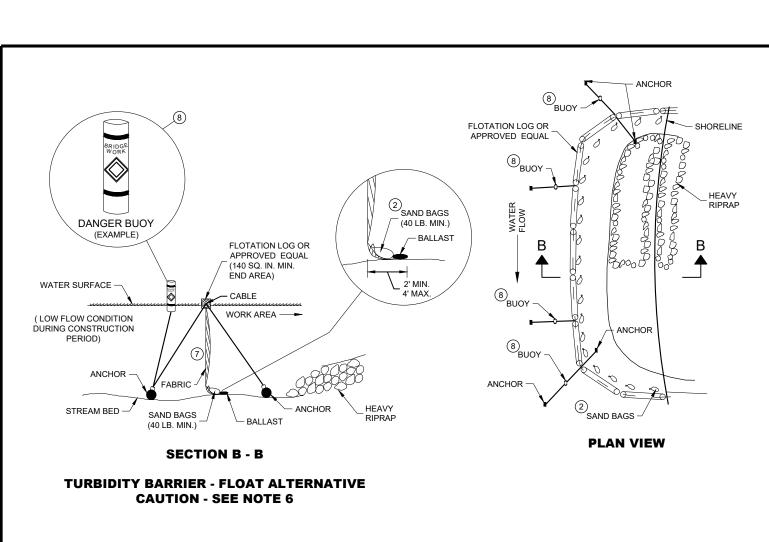
(WHEN REQUIRED BY THE ENGINEER)

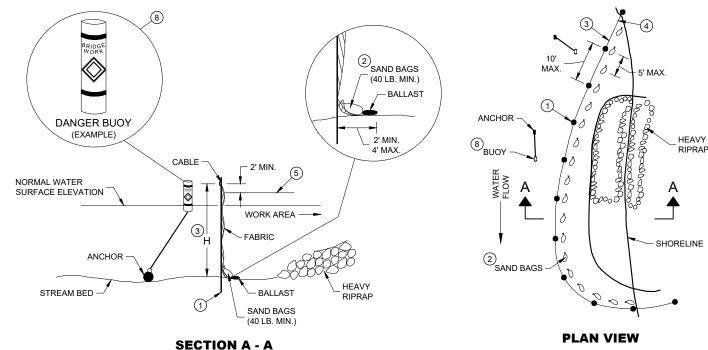


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D.D. 8 E 9-6





TURBIDITY BARRIER - STANDARD POST INSTALLATION

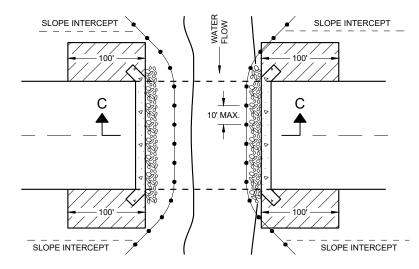
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

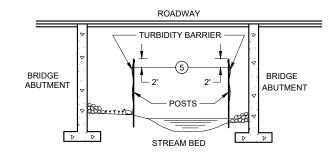
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

- 1 DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- (2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

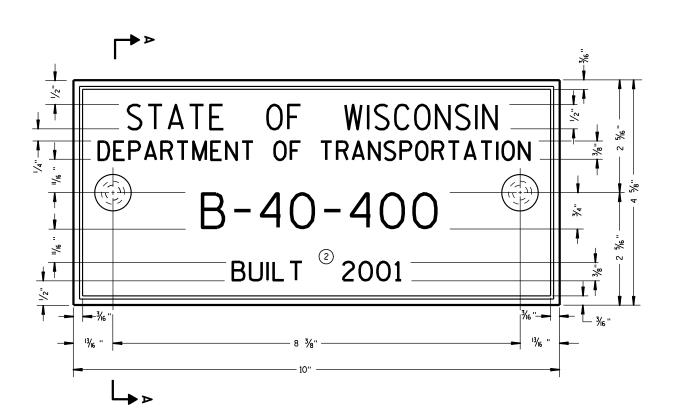
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6/4/02 /S/ Beth Cannestra

DATE CHIEF ROADWAY DEVELOPMENT
ENGINEER

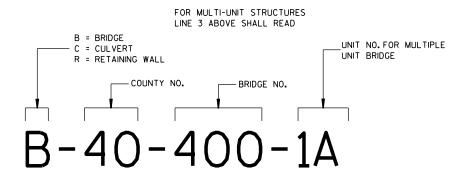
APPROVED





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



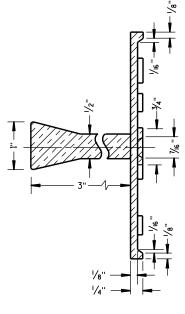
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

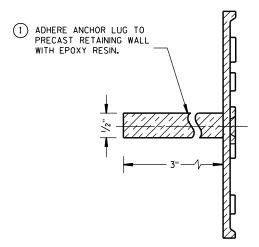
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

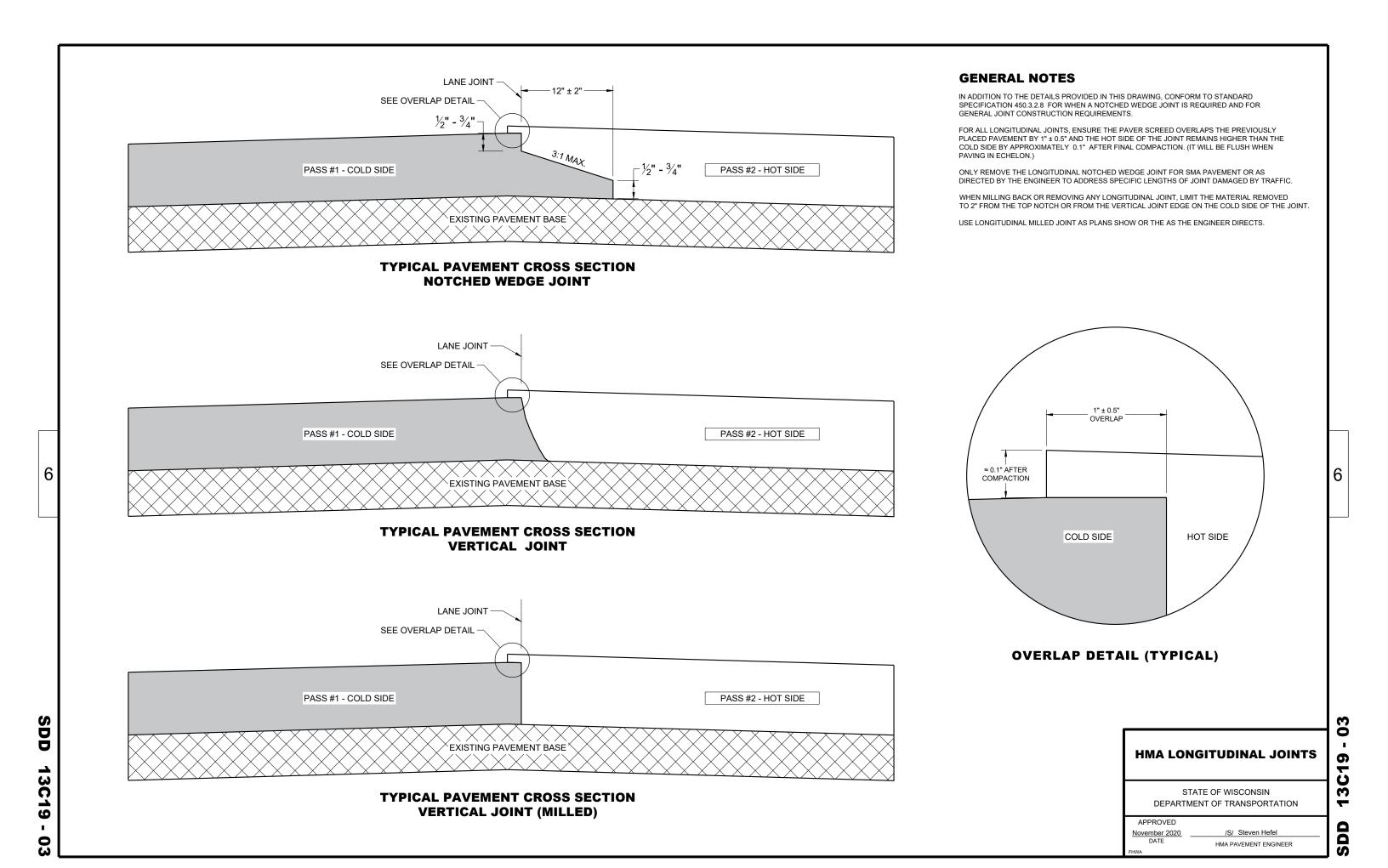
APPROVED

3/26/IO /S/ Scot Becker

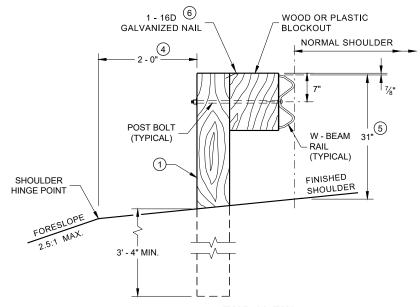
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

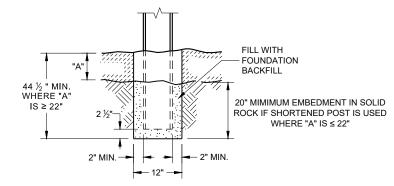
3-10



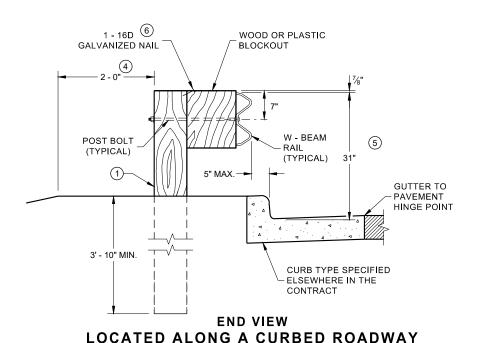
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES 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).
- $\fill \ensuremath{5}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS $\pm 1"$. 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



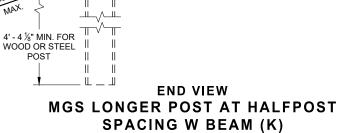
SETTING STEEL OR WOOD POST IN ROCK

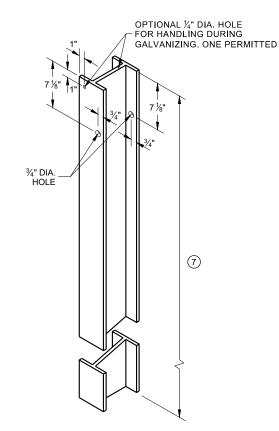


POST BOLT
(TYPICAL)

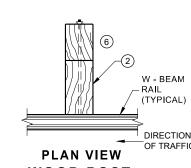
W - BEAM
RAIL
(TYPICAL)

PLASTIC
BLOCKOUT

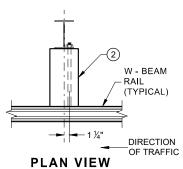




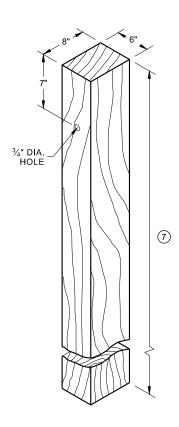
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) ^①



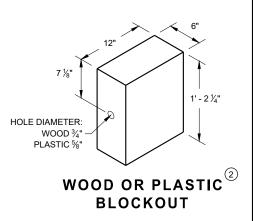
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SD

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

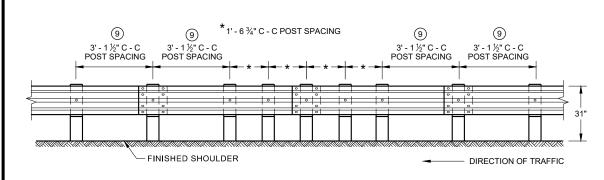
POST SPACING

DIRECTION OF TRAFFIC

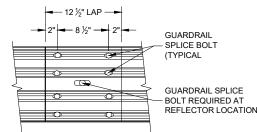
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW **QUARTER POST SPACING (QS)**



FRONT VIEW MID-SPAN BEAM SPLICE

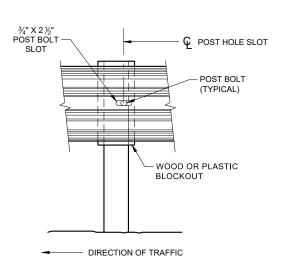
REFLECTOR LOCATIONS

GENERAL NOTES

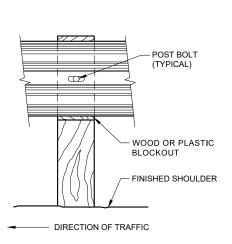
- DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

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

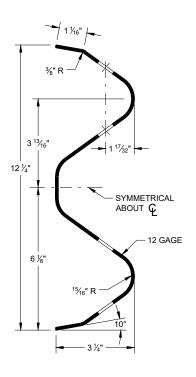
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



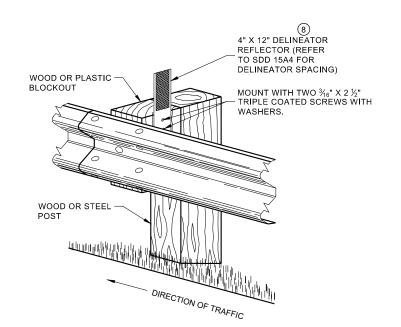
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

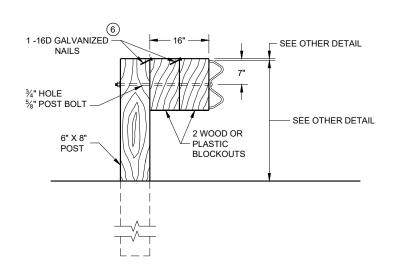
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

07b

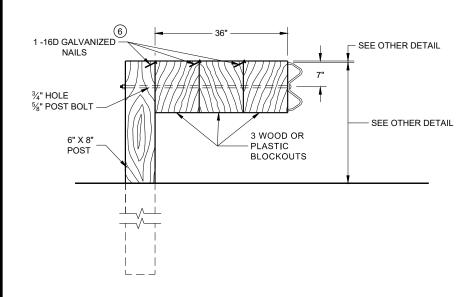
SDD

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.



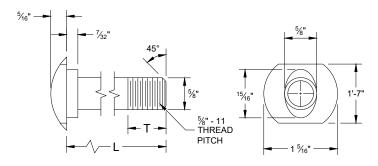
DETAIL FOR 36" BLOCKOUT DEPTH

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.

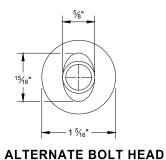
NOTE:

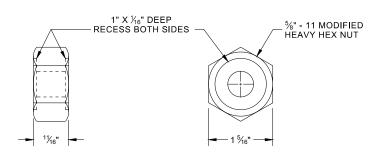
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

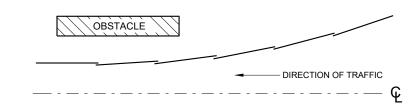
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



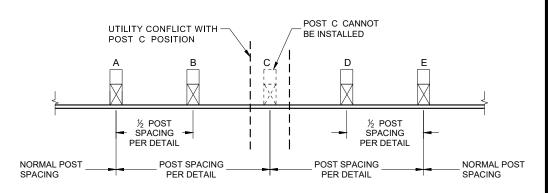


POST BOLT, SPLICE BOLT **AND RECESS NUT**

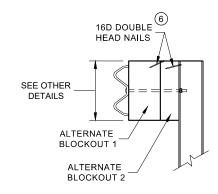
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

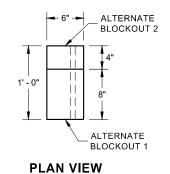


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

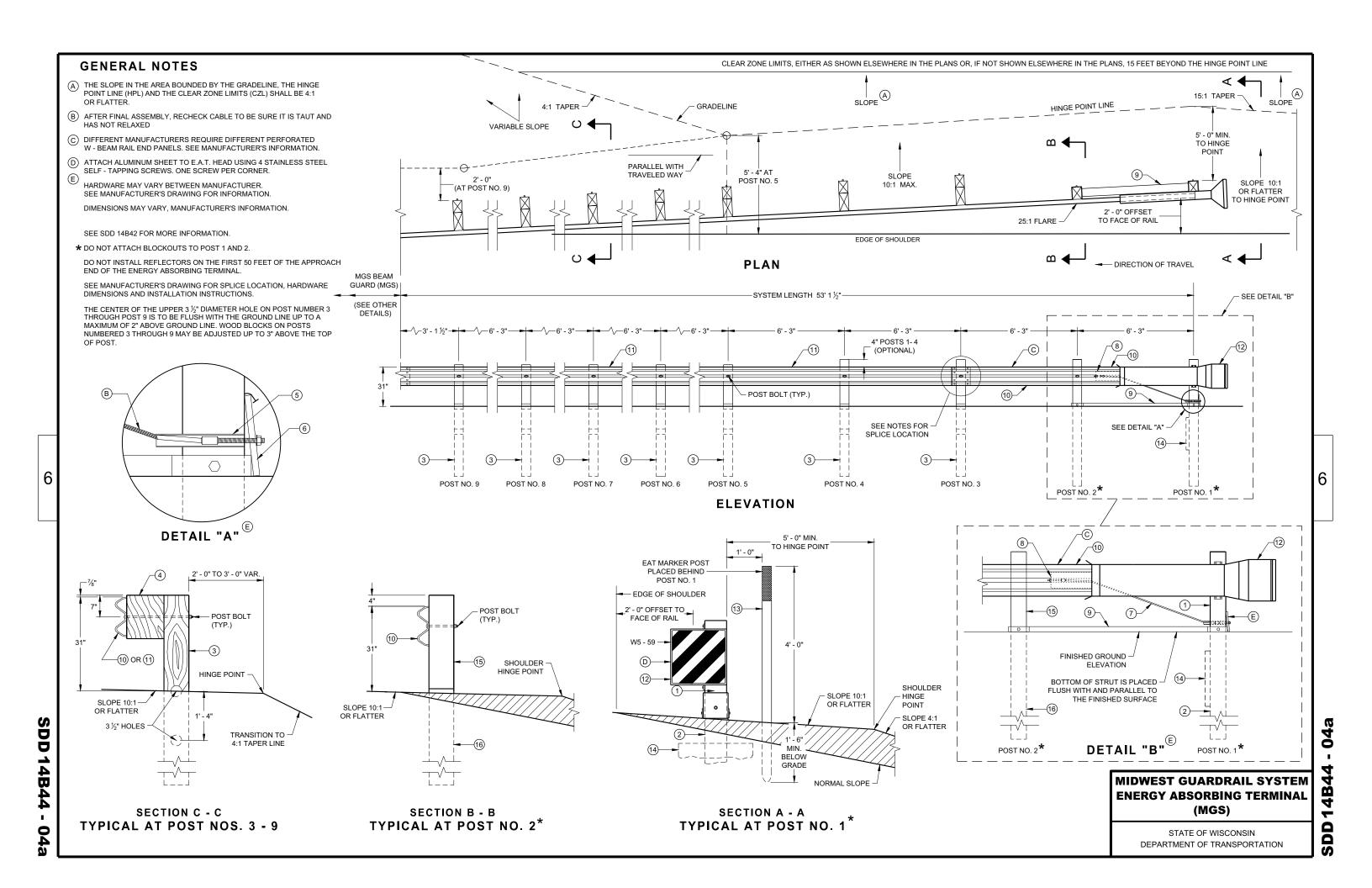
ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

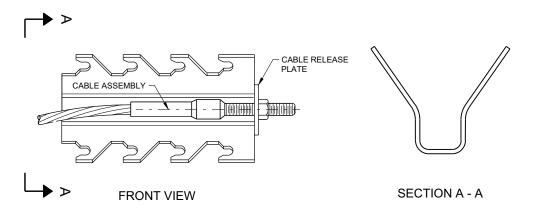
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

07

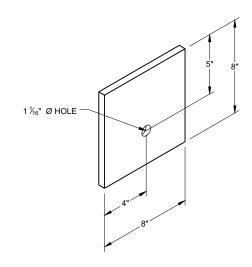
SD



GENERIC GROUND STRUT



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



BEARING PLATE

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

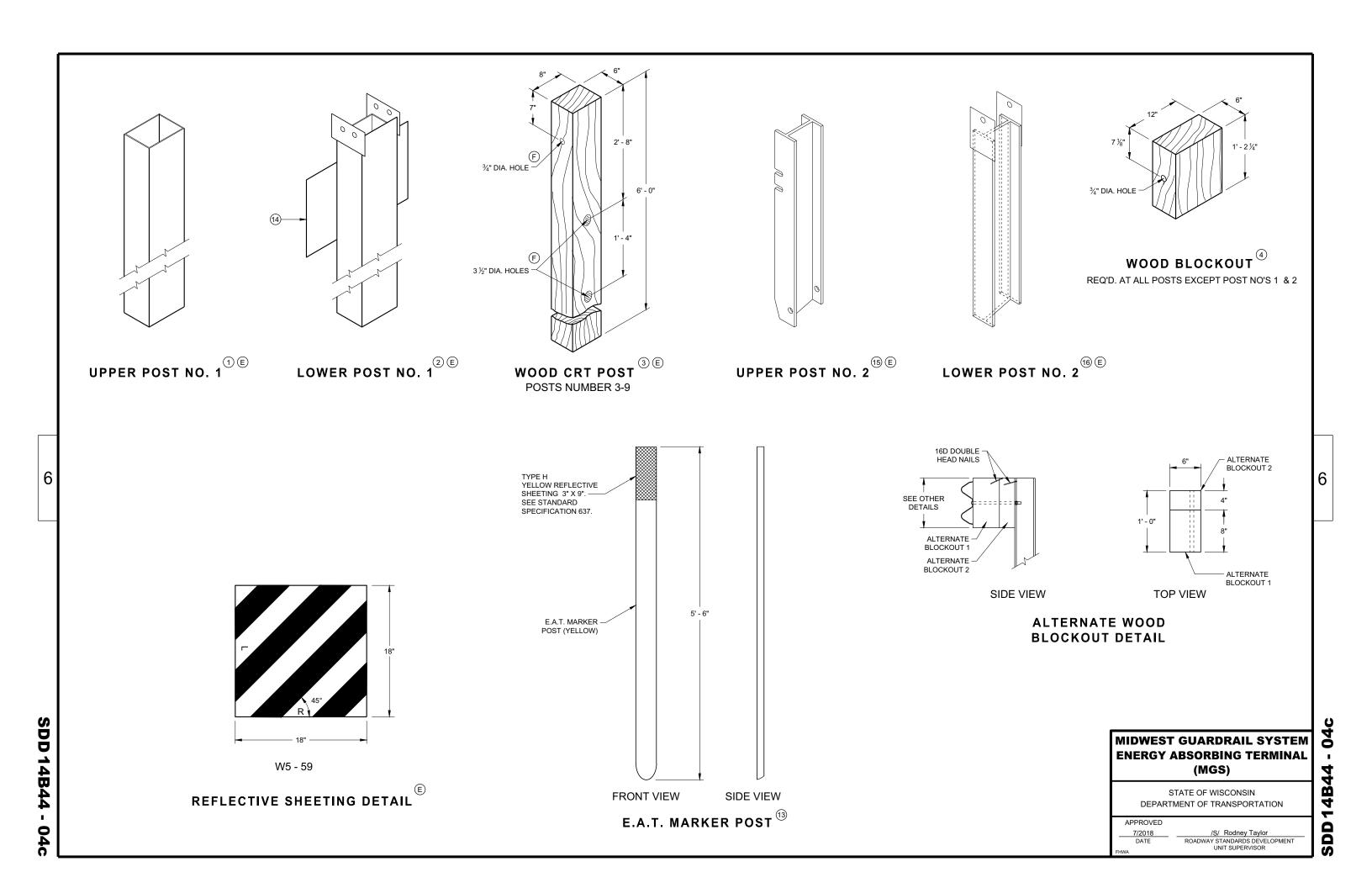
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

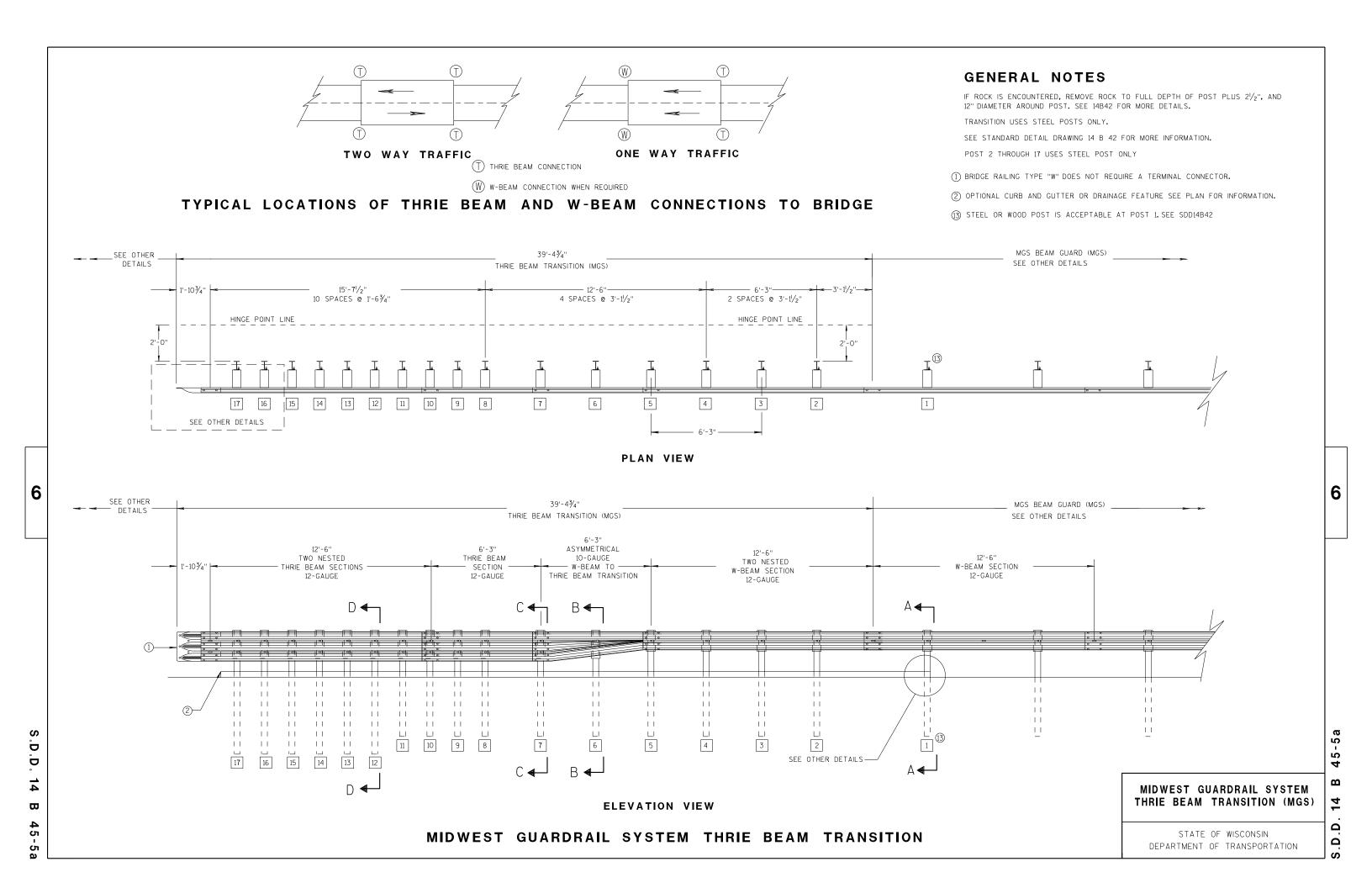
6

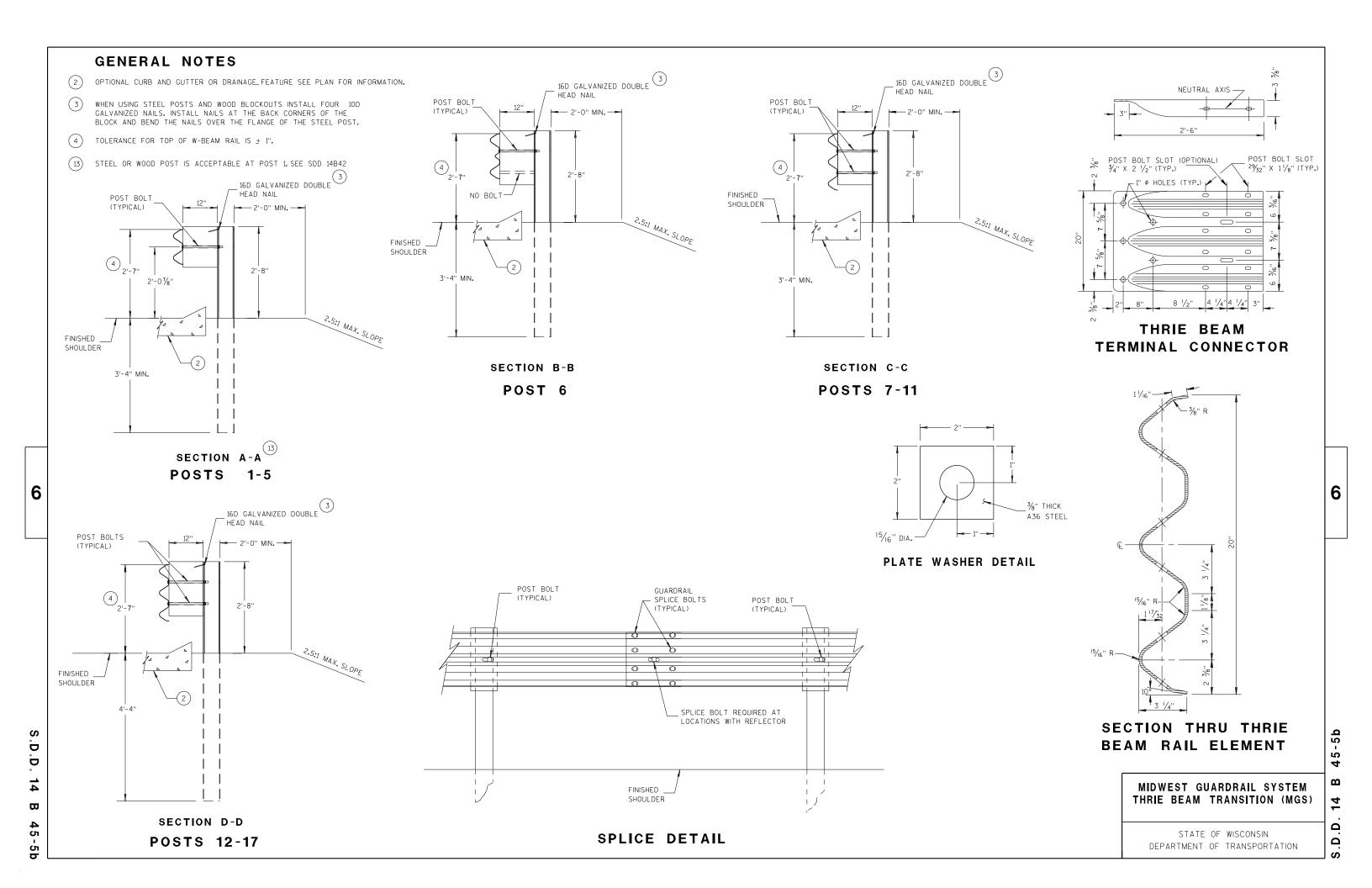
O

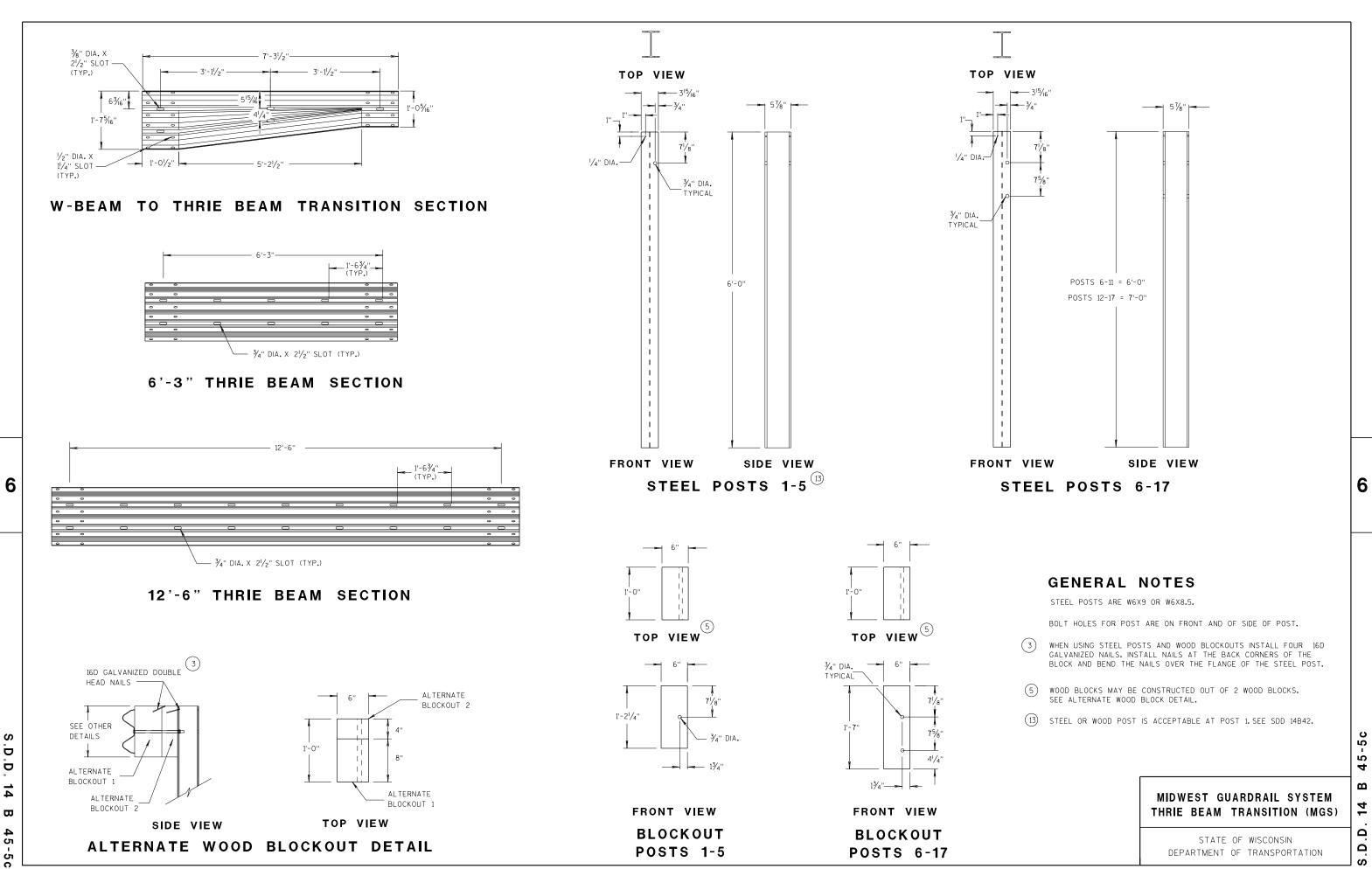
SDD

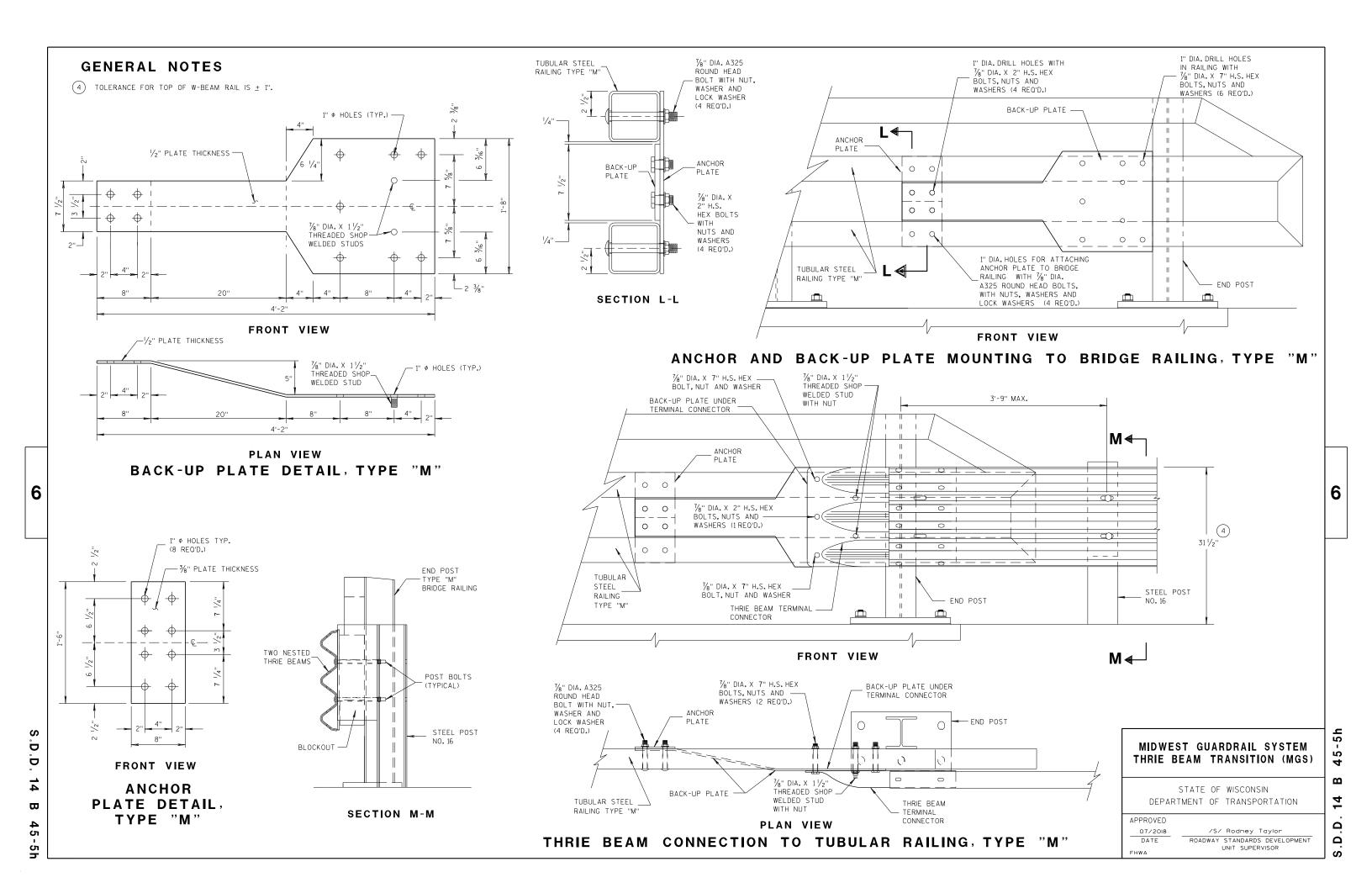
SDD 14B44 - 04

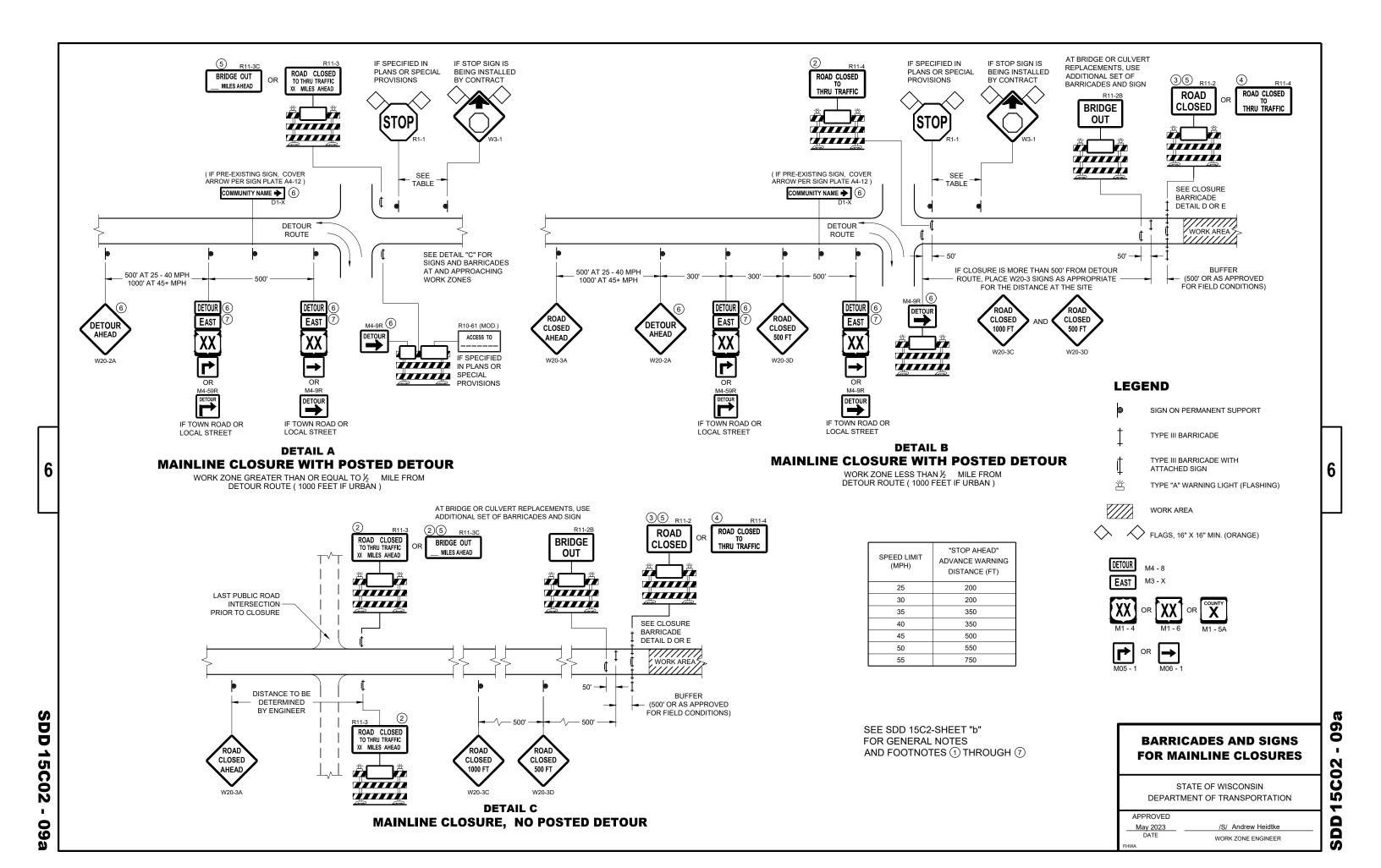












TWO- WAY

TYPE "A" WARNING

LIGHTS REQUIRED

12" MAX. →

TWO-WAY TYPE "A" WARNING LIGHTS REQUIRED ROAD CLOSED TO THRU TRAFFIC ROAD CLOSED TO THRU TRAFFIC ROAD CLOSED TO THRU TRAFFIC

BRIDGE

OUT

ROAD

CLOSED

RAMP

CLOSED

DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS) D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <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 SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED May 2023

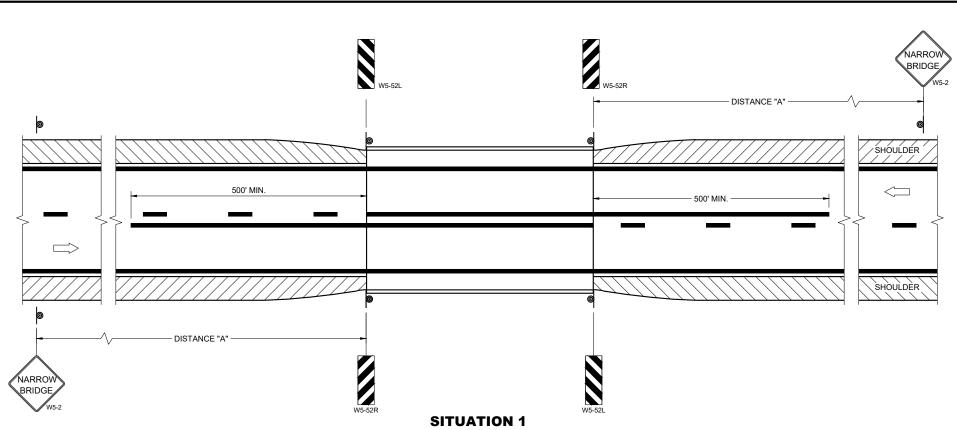
May 2023 /S/ Andrew Heidtke

DATE WORK ZONE ENGINEER

5C02 - 0



SDD 15C06-12



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

W5-52L W5-52L W5-52L W5-52L W5-52L

SITUATION 2

SDD

15C06-12

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

GENERAL NOTES

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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

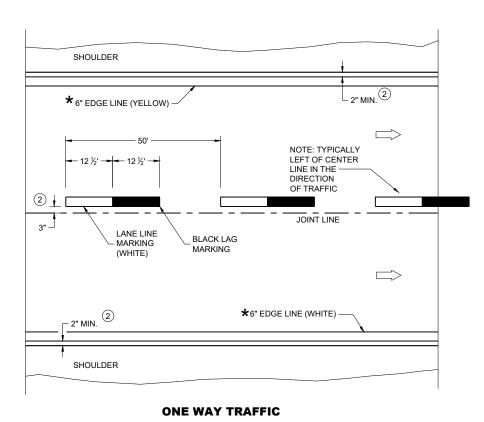
DISTANCE TABLE

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

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL **PAVEMENT MARKINGS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE

/S/ Jeannie Silver Statewide Pavement Marking Engineer

6

SDD

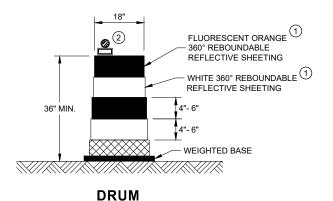
C08-23 Ŋ SD

15C08-23a

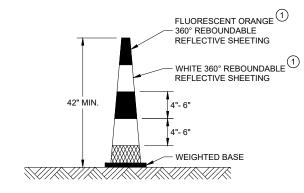
SDD 15C11

GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

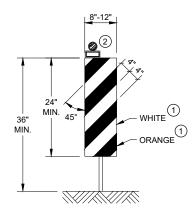


BALLAST WIDTHS RANGE FROM 24"-36"



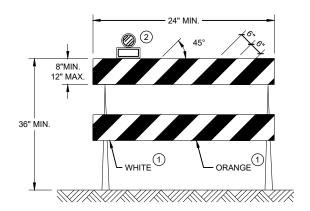
42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



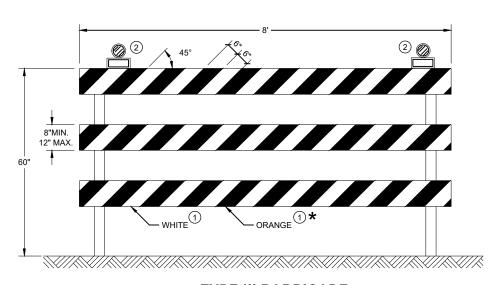
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

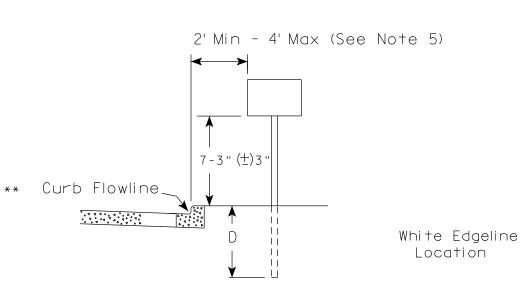
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

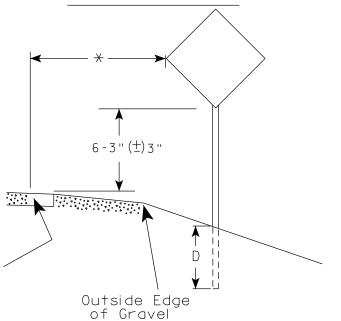
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 50

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	





RURAL AREA (See Note 2)



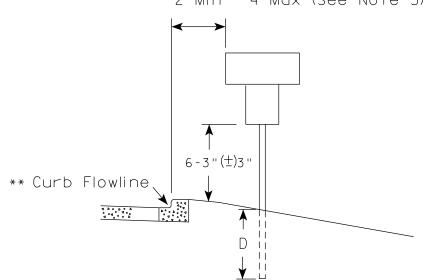
GENERAL NOTES

- 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

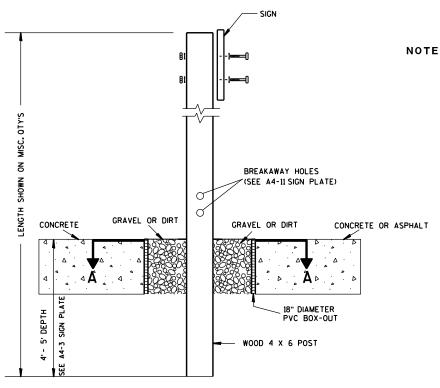
Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. _A4-3.23

Ε

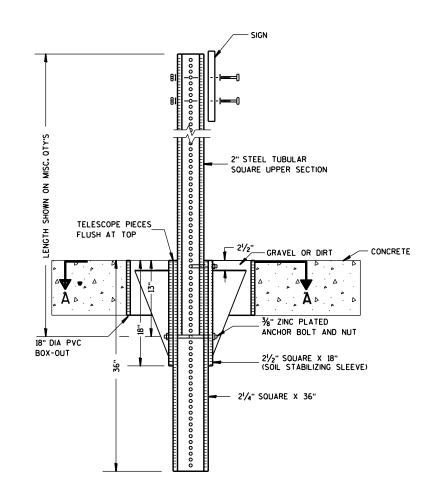
PROJECT NO: HWY: COUNTY: SHEET NO:



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.



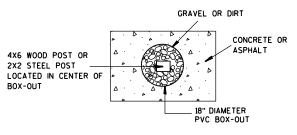
ELEVATION VIEW

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

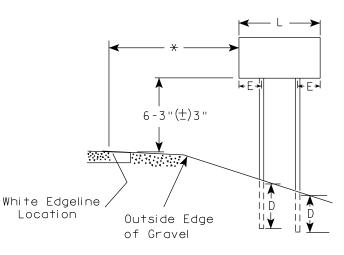
PLOT NAME :

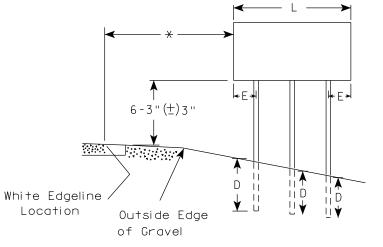
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

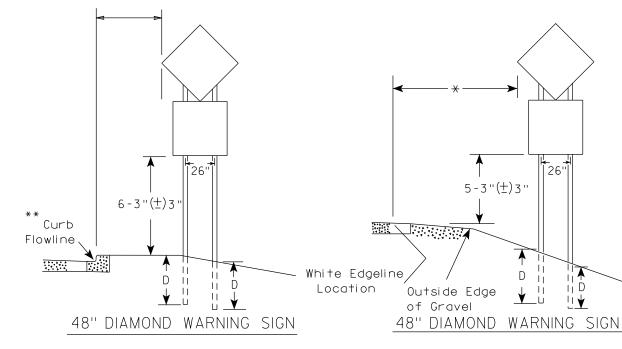
APPROVED

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	E
Greater than 108" to 144"	12''

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\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

CHEET NO.

SHEET NO:

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

PROJECT NO:

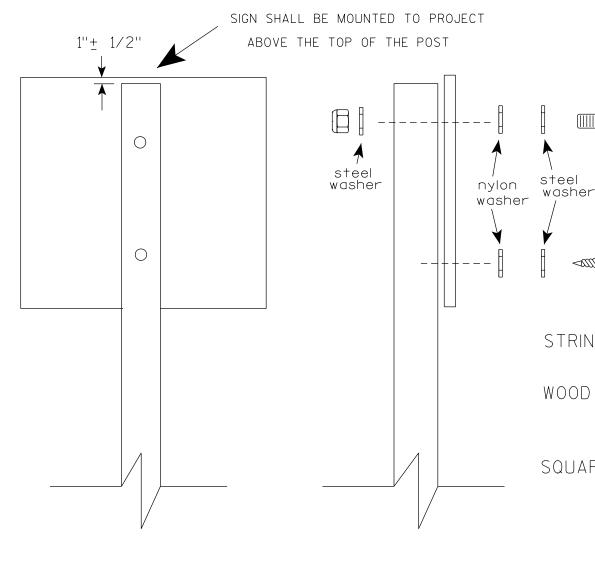
COUNTY:

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

APPROVED

DATE 4/1/2020

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

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

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

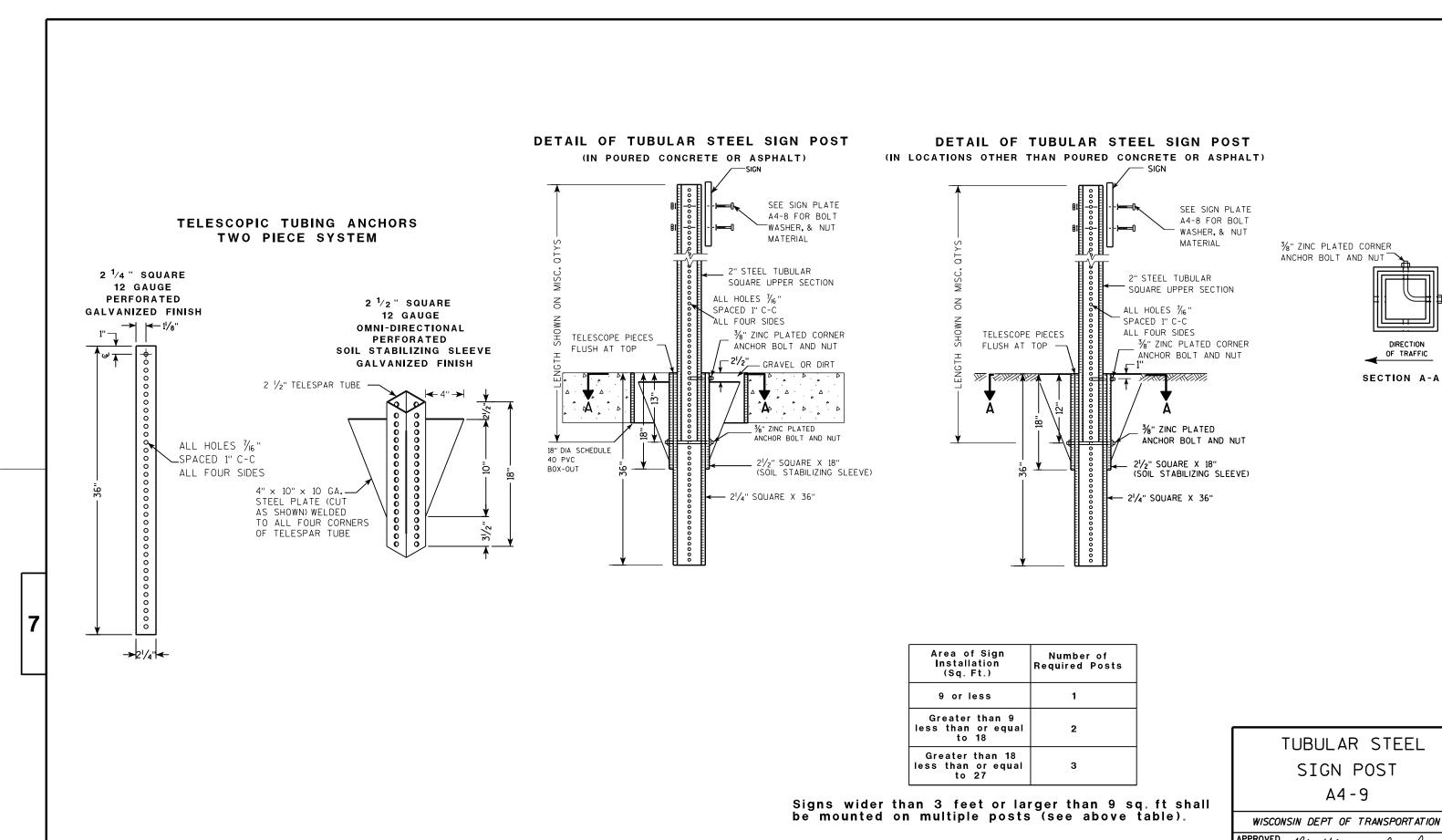
WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:

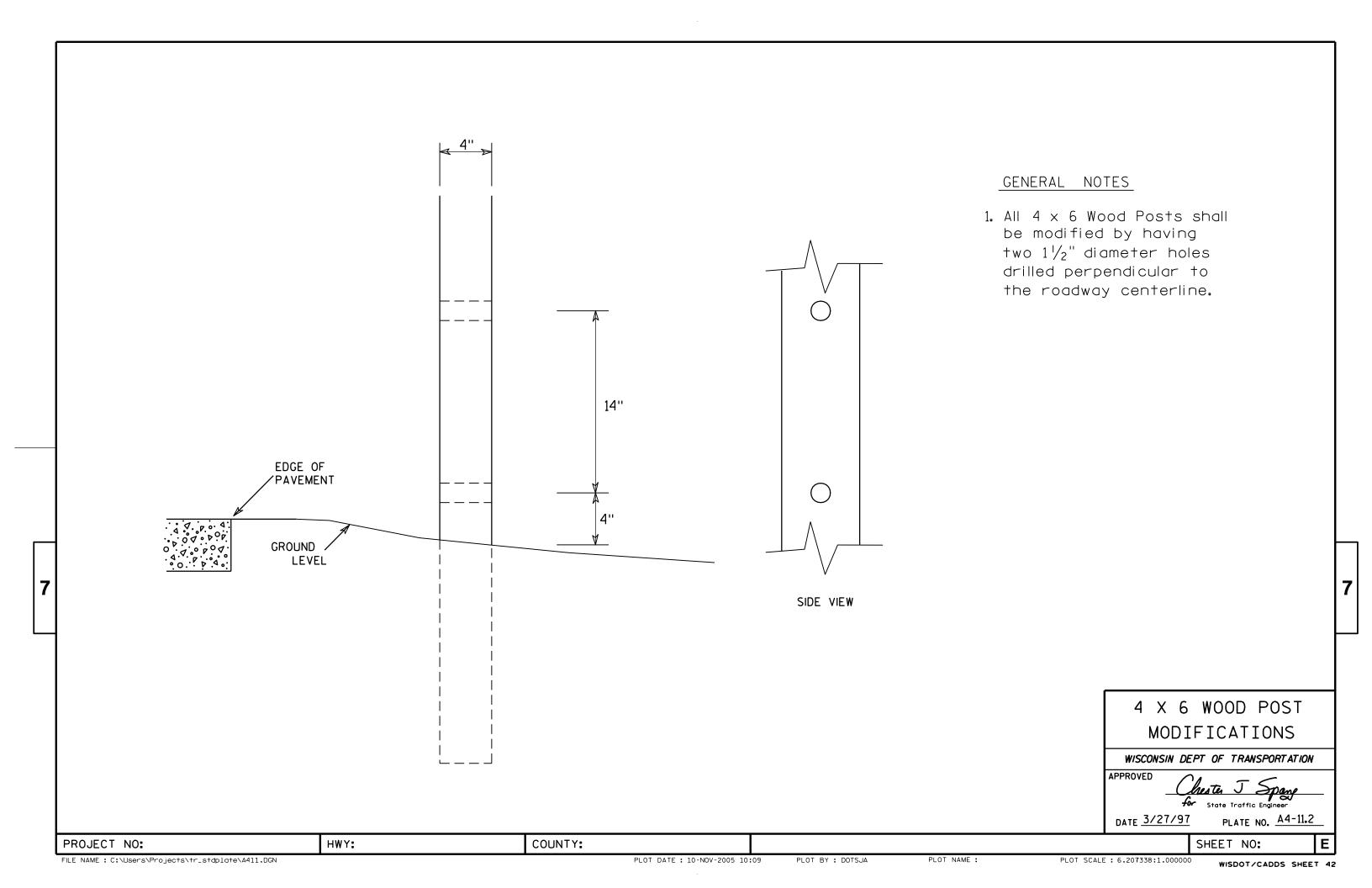


PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

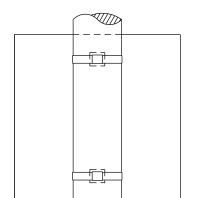
DATE 2/05/15

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

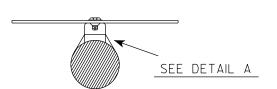
For State Traffic Engineer

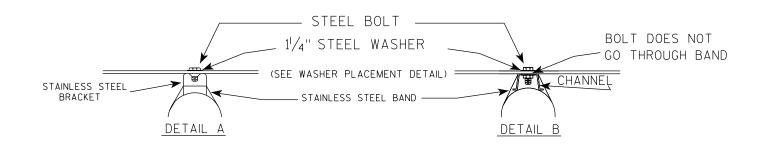


BANDING

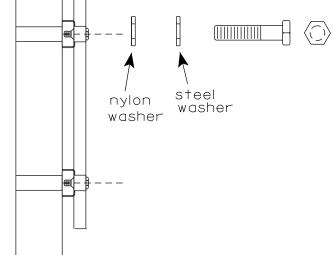


SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

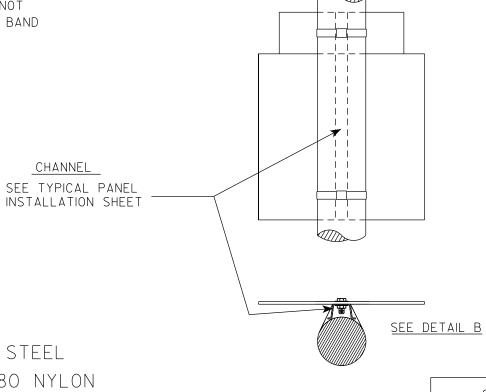
1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

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:

31/2"

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 $3/_{16}$ " 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

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:

APPROVED

PROJECT NO:

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

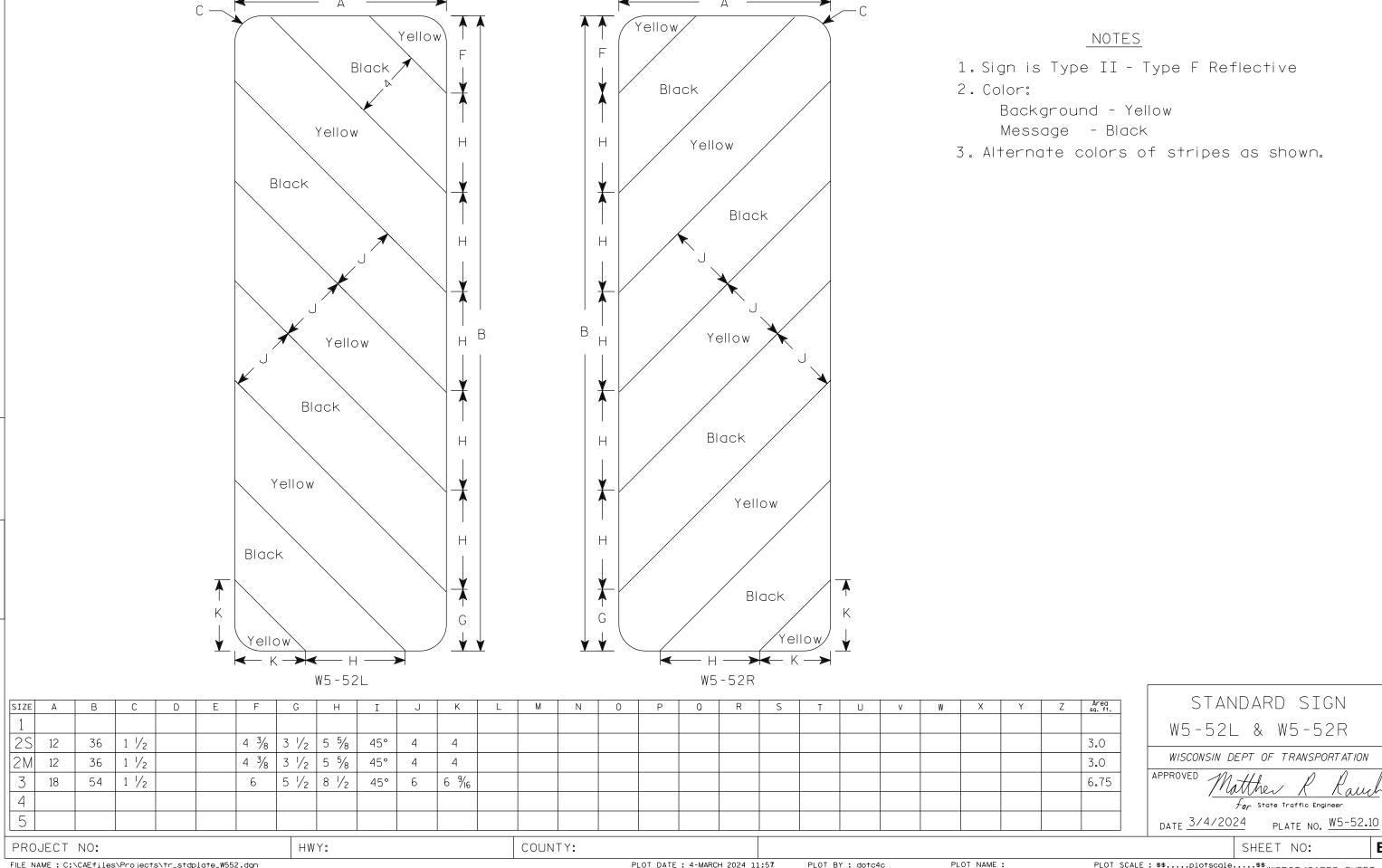
PLOT DATE: 19-APRIL 2022 11:55

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

SIGN



FILE NAME : C:\CAEfiles\Projects\tr_stdplate_W552.dgn

PLOT DATE: 4-MARCH 2024 11:57

PLOT BY : dotc4c

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

- HIGH WATER 100

BFRM

EL. 1348.07

-(G05)

4'-0"

TYP.

 $6'-0"\pm$

RIPRAP

LIMIT

- 590

50 M.P.H.

EL. 1351.99

1

ELEVATION

(NORMAL TO BRANCH NORTH FORK POPPLE RIVER, LOOKING NORTH)

RIPRAP HEAVY

TYPE HR, TYP.

TRAFFIC DATA:

A.A.D.T. (2026)

A.A.D.T. (2046)

DESIGN SPEED

WITH GEOTEXTILE

STREAMBED

EL. 1344.15

BERM

OBSERVED WATER

EL. 1348.12

EL. 1348.46

RIPRAP

PROS!

ELEVATION

1351.76

1353.03

1353.46

(4-12-2023)

RAILING TUBULAR TYPE M

(G01)

BOT. OF W. ABUT.

HP 10 X 42 STEEL

© W. ABUT, BRG

EL. 1345.62

PILING, TYP

DESCRIPTION

RR SPIKE IN POWER POLE

BOLT ON TIMBER CAP

RR SPIKE IN POWER POLE

PROFILE GRADE LINE,

€ CTH A

GROUND LINE

EXISTING

- 1360

1355

1350

1345

STATION/OFFSET

13+20.94, 35.33' RT.

13+69.31, 13.61' LT.

18+33.41, 36.11' RT.

BENCH MARKS \$

BM #1

BM #2

BM #3

- ABUTMENTS

(G01)

€ E. ABUT. BRG.

CONSULTANT CONTACT ANDY KNUTSON, P.E., S.E.

(608) 588-7866

BOT. OF E. ABUT

EL. 1345.57

3'-0'

TYP.

BRIDGE OFFICE CONTACT
AARON BONK, P.E.

(608) 261-0261

- ABUTMENT DETAILS
- SUPERSTRUCTURE
- SUPERSTRUCTURE DETAILS
- RAILING TUBULAR TYPE M

STEEL BEAMS AND REMOVING EXISTING STEEL PILES SHALL BE INCLUDED WITH BID ITEM "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-10-29"

* LOCATION OF BEAM GUARD ATTACHMENT



BRIDGE STRUCTURE SUBGRADE (G03) (G01) STRUCTURE BACKFILL TYPE A

- EXCAVATION AS INDICATED IN THE HATCH AREAS, TO BE INCLUDED IN THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-10-261".
- GO1 BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCLUDED WITH BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-10-261". LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR
- (GO2) "GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH
- (603) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED IN "ABUTMENT DETAILS" SHEET.
- (G04) NAME PLATE REQUIRED AND BENCH MARK CAP (WHEN SUPPLIED), FOR LOCATION SEE ABUTMENTS" SHEET.
- GO5) EXISTING TWO STEEL BEAMS, ONE ON EACH SIDE OF THE EXISTING TIMBER BENT SHALL BE SALVAGED. CONTRACTOR SHALL COORDINATE WITH CLARK COUNTY ON DELIVERY. EXISTING STEEL PILES SUPPORTING THE EXISTING TWO STEEL BEAMS ARE TO BE REMOVED AND NOT SALVAGED. ALL COST ASSOCIATED WITH SALVAGING EXISTING
- (G06) EXISTING STEEL BEAM GUARD RAILING ATTACHED TO THE EXISTING TIMBER SUPERSTRUCTURE, SHALL BE SALVAGED. CONTRACTOR SHALL COORDINATE WITH CLARK COUNTY ON DELIVERY, ALL COST ASSOCIATED WITH SALVAGING EXISTING STEEL BEAM GUARD RAILING SHALL BE INCLUDED WITH BID ITEM "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-10-29".

REQ'D

ABUTMENT BACKFILL DETAIL (TYPICAL AT BOTH ABUTMENTS)

DESIGN DATA

LIVE LOAD:

DESIGN LOADING -	– HL–93
INVENTORY RATING FACTOR -	- RF=1.31
OPERATING RATING FACTOR	- RF=1.70
WISCONSIN STANDARD PERMIT	
VEHICLE RATING (WISSPV): -	- 250 KIPS

STATE PROJECT NUMBER

8880-05-76

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY, ALL OTHER		4,000 F	P.S.I.
HIGH-STRENGTH BAR		3,300 1	5.1.
REINFORCEMENT -	fy=	60,000	P.S.I.

FOUNDATION DATA:

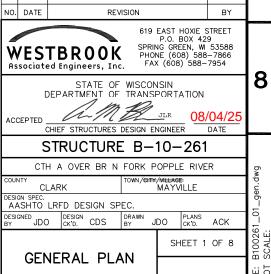
ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE** AT W. ABUT. AND 160 TONS PER PILE** AT E. ABUT. AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 45 FT PILE LENGTHS AT W. ABUT. AND 55 FT PILE LENGTHS AT E. ABUT.

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

HYDRAULIC DATA:

100 YEAR DESIGN FREQUENCY:

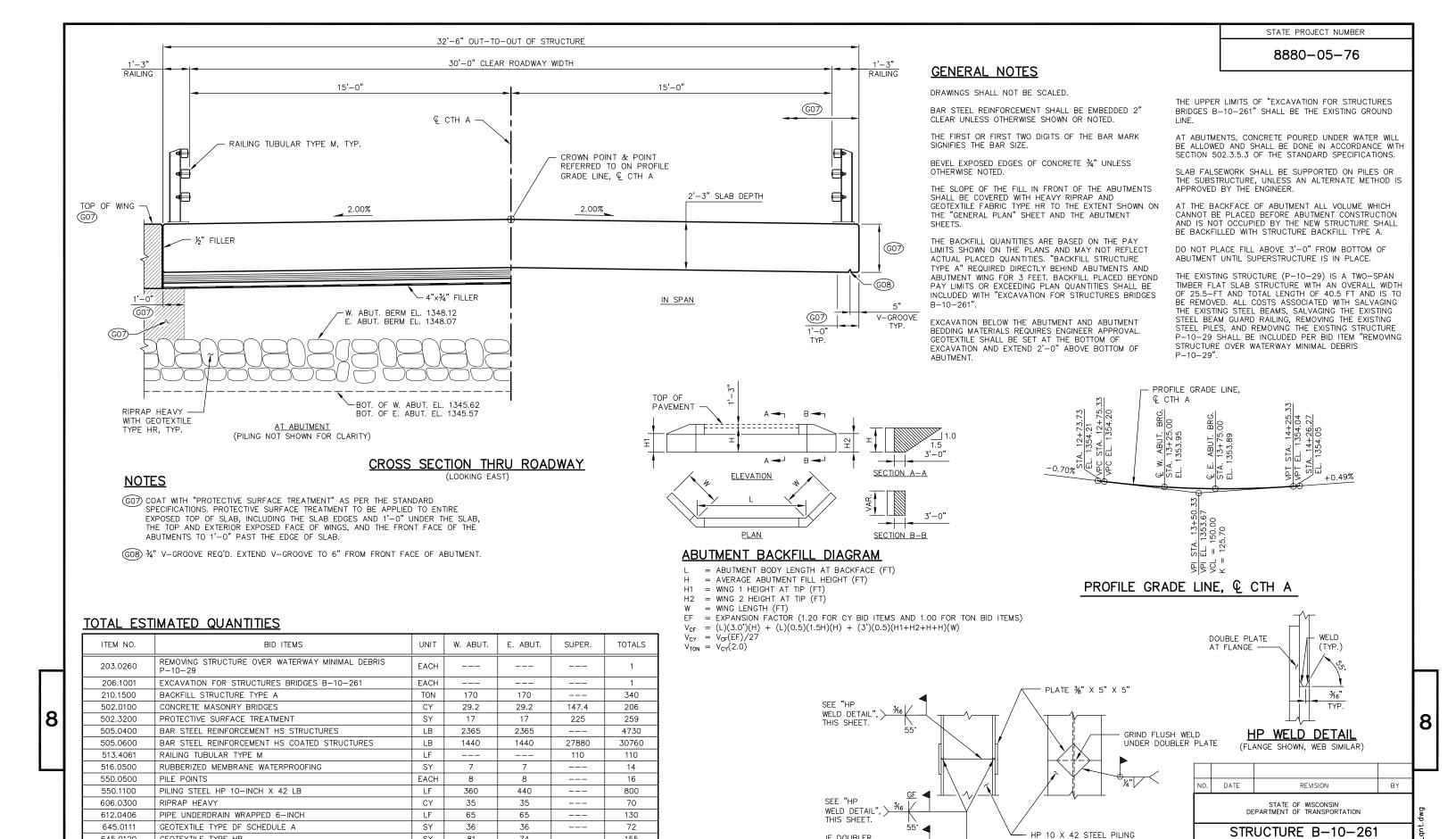
1,130 C.F.S. Q₁₀₀ — DRAINAGE AREA -— 5.6 SQ. MI. BRIDGE WATER AREA — 214 SQ. FT.
BRIDGE VELOCITY — 5.27 F.P.S. HIGH WATER 100 EL. -1352.30 FT. ROADWAY OVERTOPPING — NA SCOUR CRITICAL CODE — 5 290 C.F.S. ELEVATION --1349.60 FT. Q2 VELOCITY -2.44 F.P.S



HORIZONTAL DATUM AND ADJUSTMENT: NAD 83 (2011) VERTICAL DATUM AND ADJUSTMENT: NAVD 88 (2012) COORDINATE REFERENCE SYSTEM: WISCRS CLARK CO.

I.D. 8880-05-76

PLOT DATE: May 21, 2025



645.0120

(NON-BID ITEM) FILLER

GEOTEXTILE TYPE HR

SY

SIZE

81

74

155

1/2" & 3/4"

IF DOUBLER

PLACED FIRST

¾ \

PILE SPLICE DETAILS

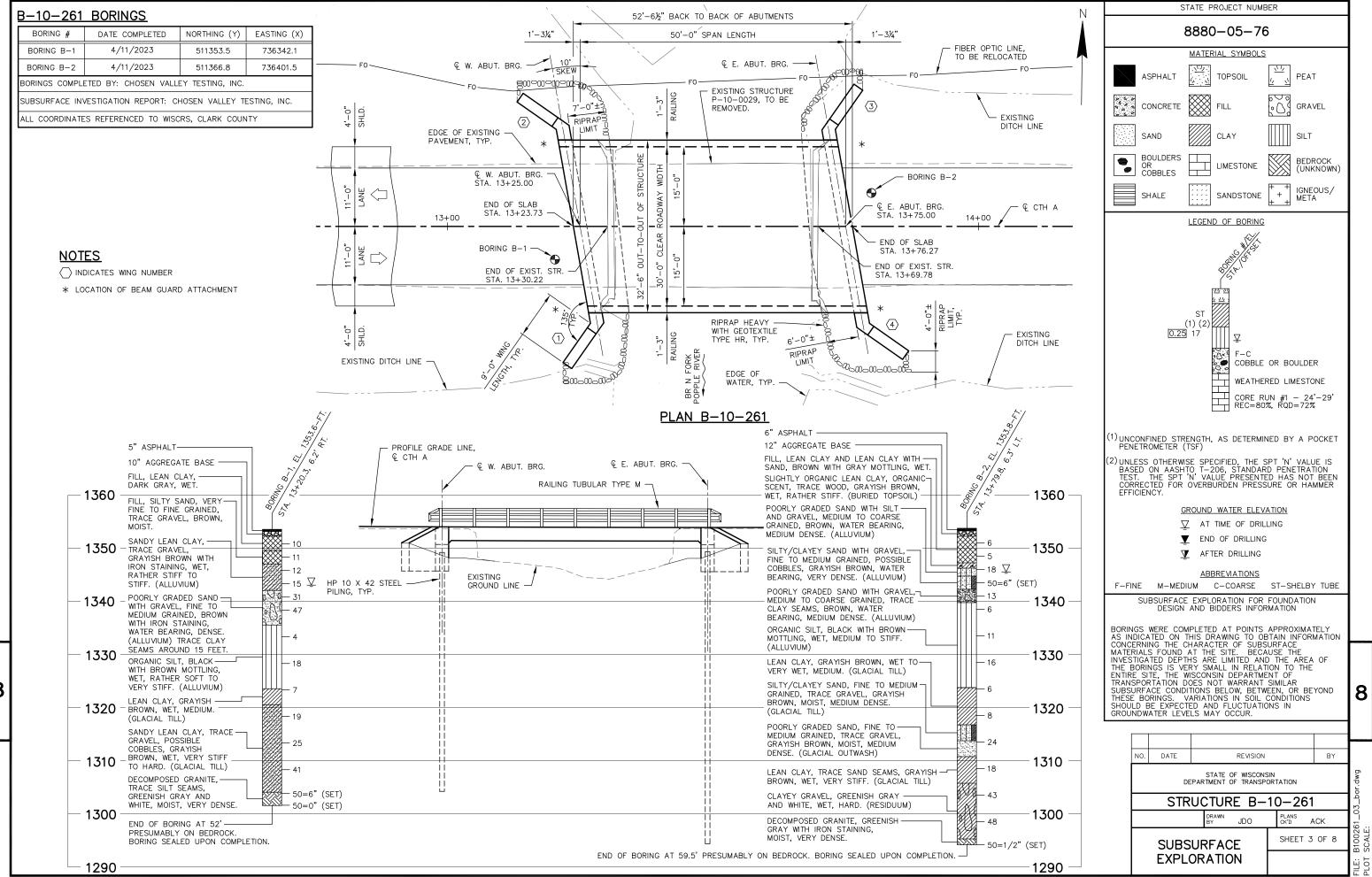
PLATE IS

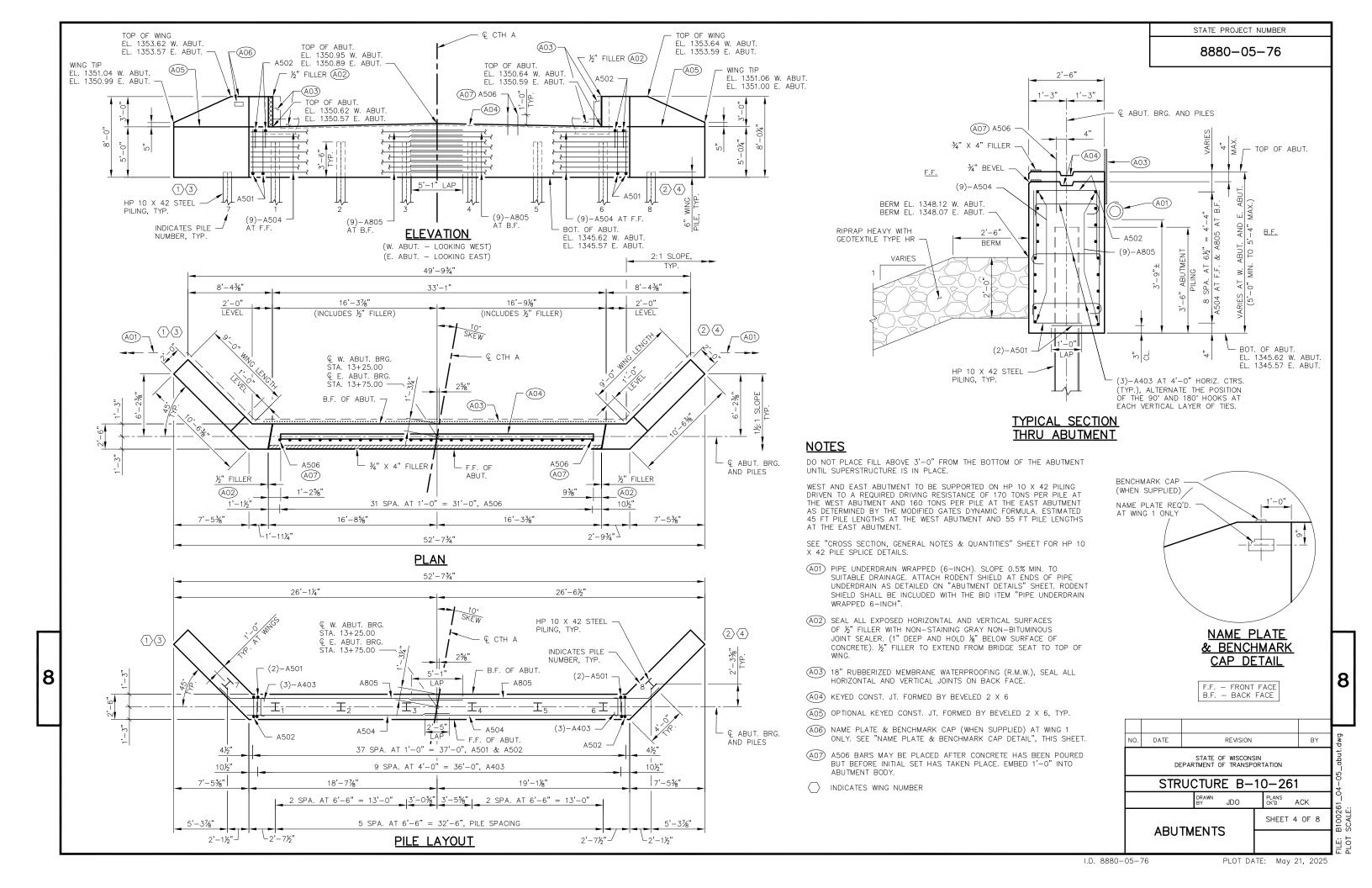
CROSS SECTION,

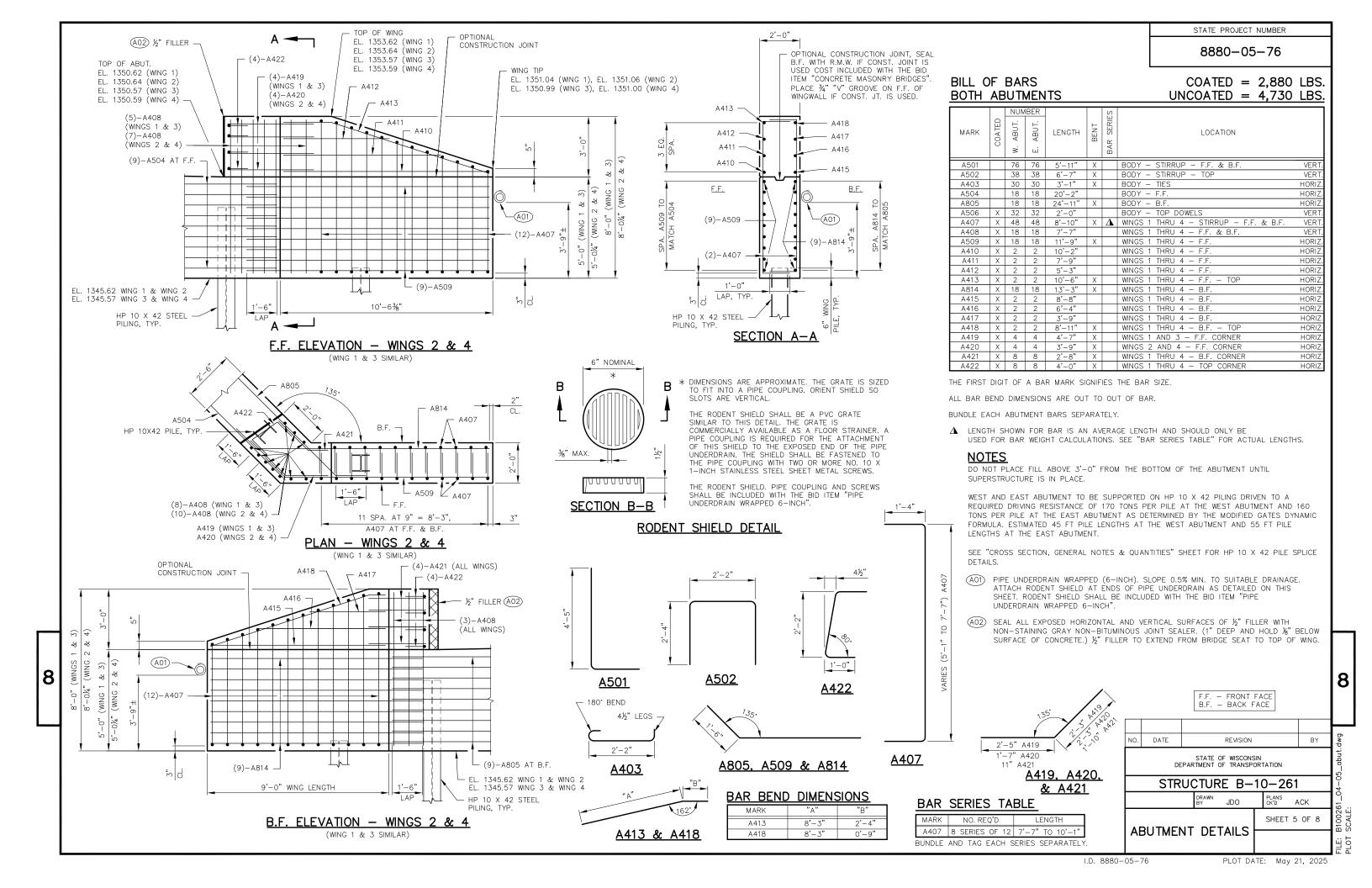
GENERAL NOTES & **QUANTITIES**

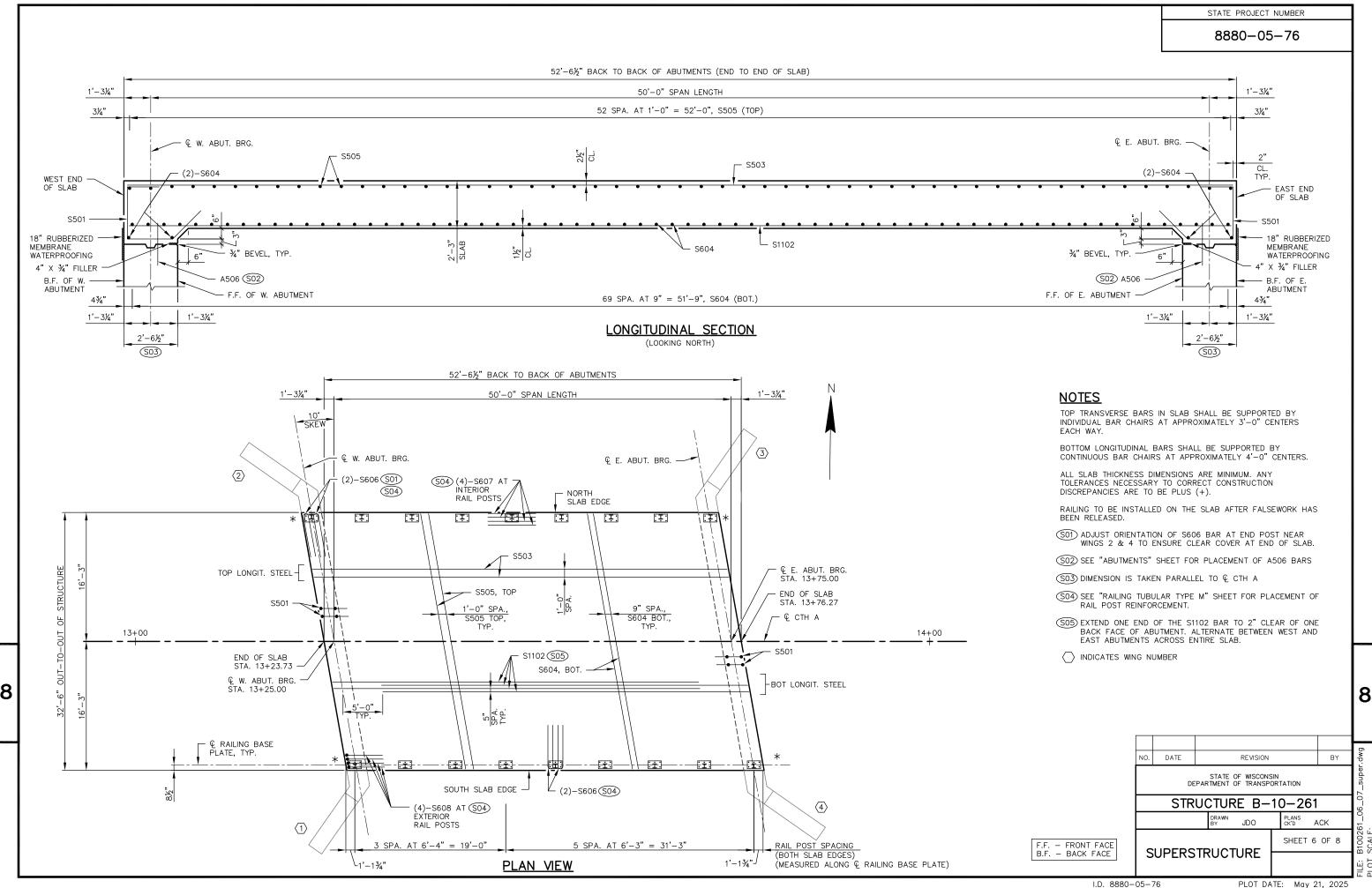
LANS CK'D ACK

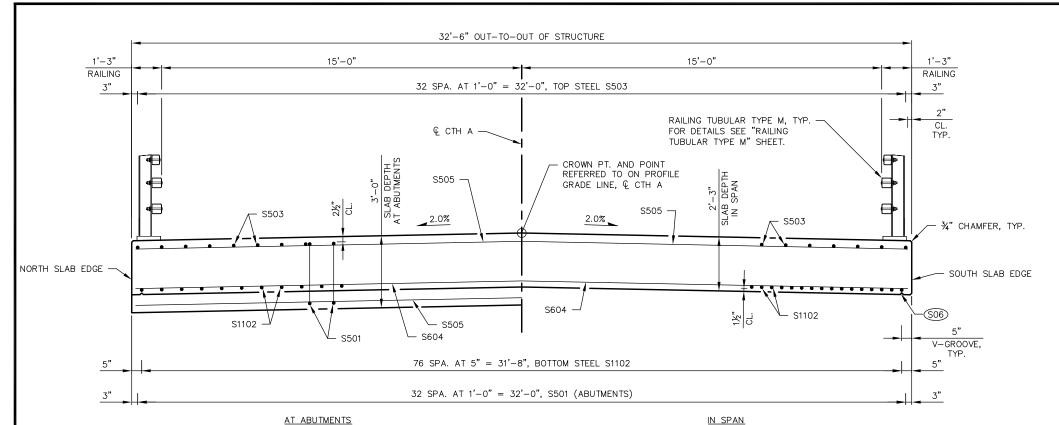
SHEET 2 OF 8











BILL OF BARS SUPERSTRUCTURE

COATED = 27,880 LBS.

MARK	COATED	UNCOATED B	LENGTH	BENT	BAR SERIES	LOCATION		
S501	66		7'-9"	Х		SLAB AT ABUTMENT - TIES	LONGIT.	
S1102	77		46'-2"			SLAB - BOTTOM	LONGIT.	
S503	33		52'-2"			SLAB - TOP	LONGIT.	
S604	74		32'-7"			SLAB - BOTTOM & OVER ABUTMENTS	TRANS.	
S505	53		32'-7"			SLAB - TOP	TRANS.	
S606	36		11'-6"	Х		SLAB - TOP AT RAIL POSTS	TRANS.	
S607	56		6'-0"			SLAB - TOP AT INTERIOR RAIL POSTS	LONGIT.	
S608	16		4'-8"	Χ		SLAB - TOP AT EXTERIOR RAIL POSTS	LONGIT.	

THE FIRST OR FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

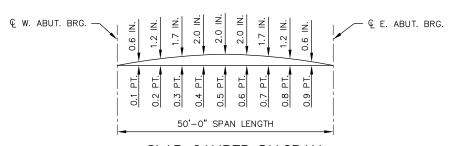
CROSS SECTION THRU ROADWAY

(LOOKING EAST)

SURVEY TOP OF SLAB ELEVATIONS

	€ W. ABUT. BRG.	5/10 PT.	€ E. ABUT. BRG.
NORTH SLAB EDGE			
€ CTH A			
SOUTH SLAB EDGE			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE \P OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND REFERENCE LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.



SLAB CAMBER DIAGRAM

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

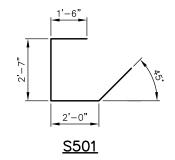
TOP OF SLAB ELEVATION AT FINAL GRADE SLAB THICKNESS

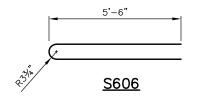
LESS SLAB THICKNE PLUS CAMBER

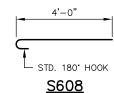
PLUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

EQUALS TOP OF SLAB FALSEWORK ELEVATION.

TOP	OF SLAB	ELEVAT	IONS
SPAN PT	SOUTH SLAB EDGE	€ CTH A	NORTH SLAB EDGE
€ W. ABUT.	1353.62	1353.95	1353.64
0.1	1353.61	1353.93	1353.62
0.2	1353.59	1353.92	1353.61
0.3	1353.59	1353.91	1353.60
0.4	1353.58	1353.90	1353.59
0.5	1353.57	1353.90	1353.58
0.6	1353.57	1353.89	1353.57
0.7	1353.57	1353.89	1353.57
0.8	1353.57	1353.89	1353.57
0.9	1353.57	1353.89	1353.57
€ E. ABUT.	1353.59	1353.89	1353.57



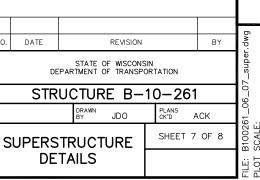


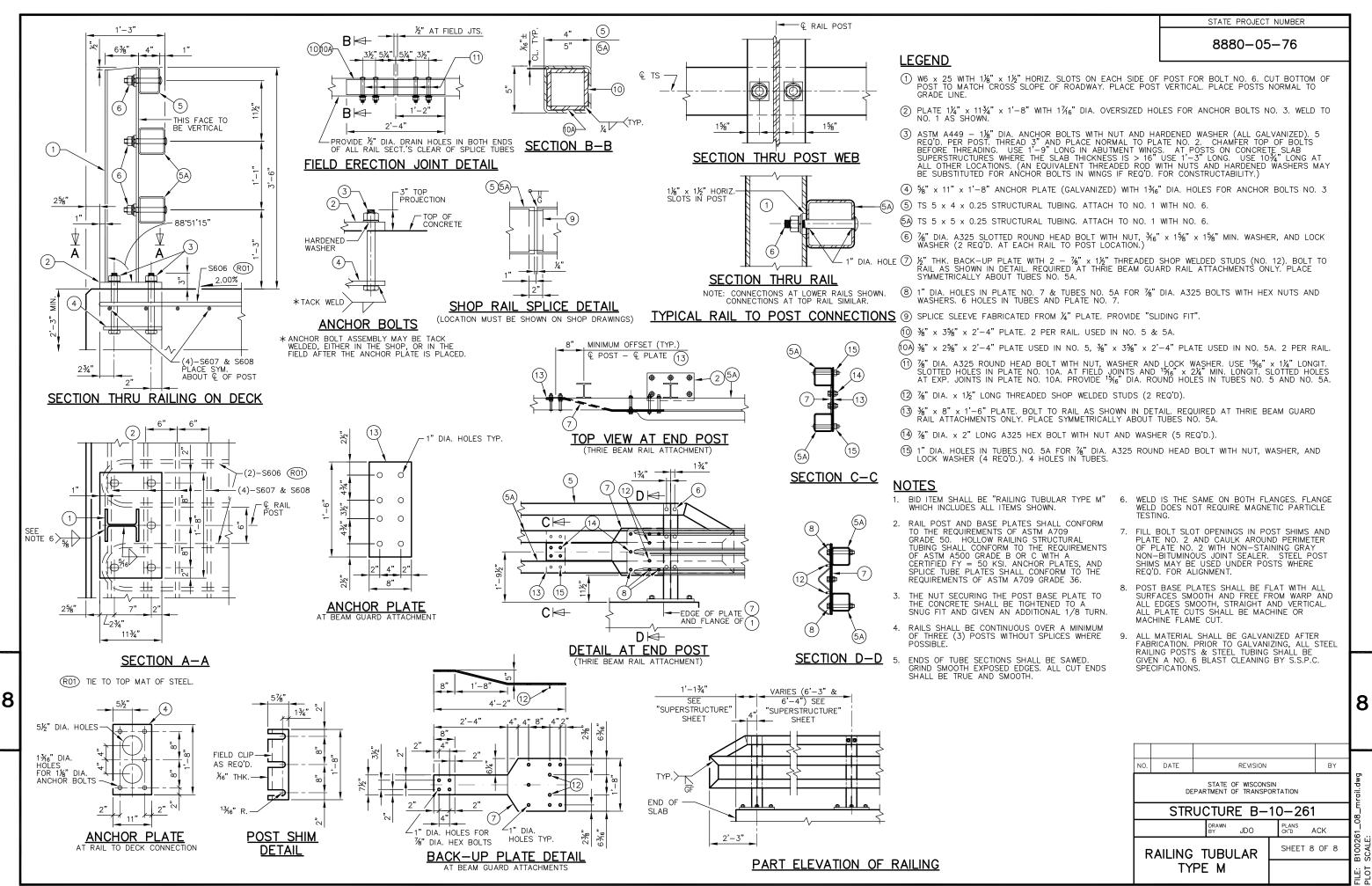


NOTES

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

6) 3/4" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT BODY. V-GROOVES ARE REQUIRED.





		AREA (SF)			AREA (SF) INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
			FAVEIVIENT WATERIAL		NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
11+57.00	0.00	8.34	10.00	0.00	0	0	0	0	0	0
11+63.00	6.00	8.27	10.00	4.48	2	2	0	2	0	0
11+81.00	18.00	15.51	10.00	12.64	8	7	6	10	8	-7
12+00.00	19.00	13.47	10.00	13.07	10	7	9	20	19	-15
12+31.29	31.29	12.60	9.17	23.58	15	11	21	35	45	-37
12+36.58	5.29	13.34	9.17	22.65	3	2	5	38	51	-42
12+50.00	13.42	14.91	9.17	16.55	7	5	10	45	64	-53
12+56.31	6.31	15.56	9.17	13.95	4	2	4	49	69	-56
12+61.60	5.29	16.05	9.17	10.89	3	2	2	52	71	-57
12+73.73	12.13	16.08	9.17	8.47	7	4	4	59	76	-59
12+81.29	7.56	38.19	9.17	9.29	8	3	2	67	79	-57
12+86.58	5.29	36.51	9.17	8.49	7	2	2	74	81	-54
13+00.00	13.42	32.60	9.17	10.60	17	5	5	91	88	-49
13+21.79	21.79	28.37	9.17	21.58	25	7	13	116	104	-47
					STRUCTURE E	3-10-0261				
			DIVISION 1 TOTA	LS	116	59	83			

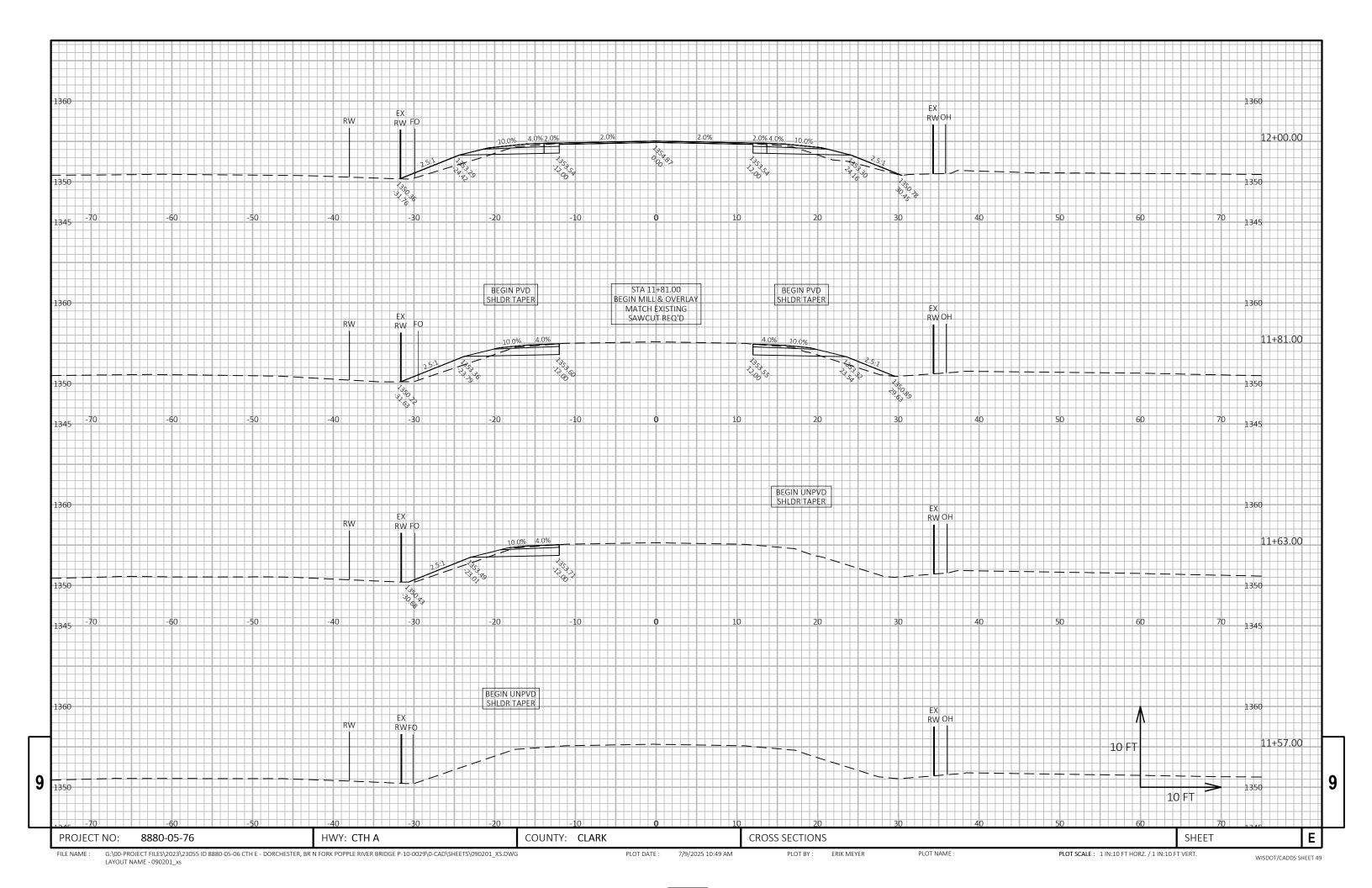
			AREA (SF)		INCR	EMENTAL VOL (CY) (UNADJU	JSTED)		CUMULATIVE VO	L (CY)
STATION	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
			PAVEIVIEINI IVIATERIAL		NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
					STRUCTURE E	3-10-0261				
13+78.21	0.00	34.78	9.17	18.78	0	0	0	0	0	0
14+00.00	21.79	41.07	9.17	18.96	31	7	15	31	19	5
14+13.42	13.42	45.27	9.17	12.82	21	5	8	52	29	11
14+18.71	5.29	46.06	9.17	15.14	9	2	3	61	33	15
14+26.27	7.56	15.59	9.17	20.27	9	3	5	70	39	14
14+38.40	12.13	13.76	9.17	28.42	7	4	11	77	53	4
14+43.69	5.29	13.10	9.17	29.96	3	2	6	80	60	-3
14+50.00	6.31	12.80	10.00	30.72	3	2	7	83	69	-11
14+63.42	13.42	12.09	10.00	34.51	6	5	16	89	89	-30
14+68.71	5.29	11.86	10.00	36.29	2	2	7	91	98	-39
15+00.00	31.29	11.10	10.00	26.18	13	12	36	104	143	-83
15+19.00	19.00	13.13	10.00	19.99	9	7	16	113	163	-101
15+37.00	18.00	6.86	10.00	12.57	7	7	11	120	176	-114
15+43.00	6.00	7.01	10.00	5.94	2	2	2	122	179	-117
			DIVISION 2 TOTA	LS	122	60	143			
			PROJECT TOTAL	S	238	119	226			

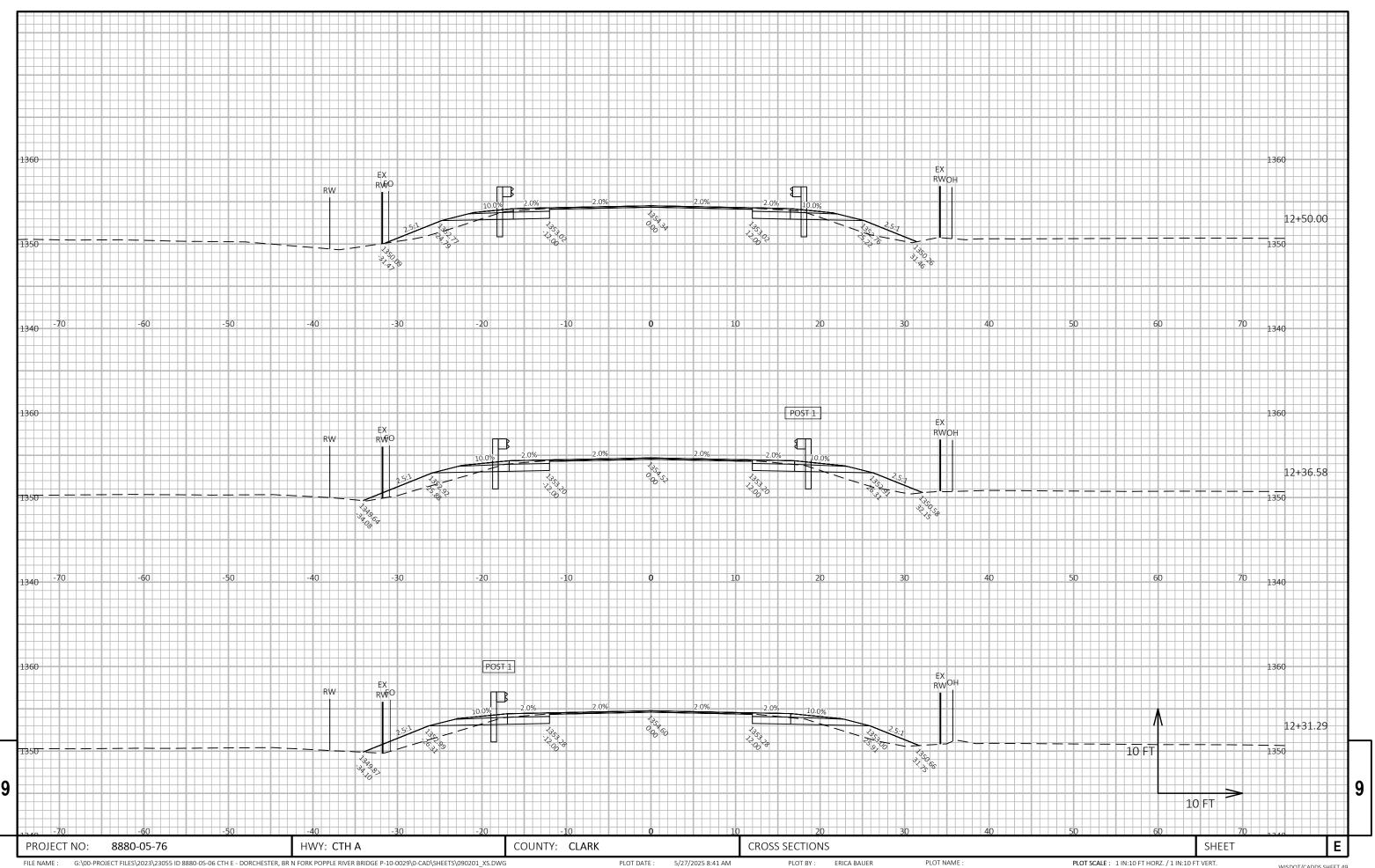
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL.
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS. INCLUDES EXISTING PAVEMENT.
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME.
4 - MASS ORDINATE	[(CUT) - (FILL * FILL FACTOR) - (SALVAGED / UNUSABLE PAVEMENT MATERIAL)]
	PLUS QUANTITIY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

Ε

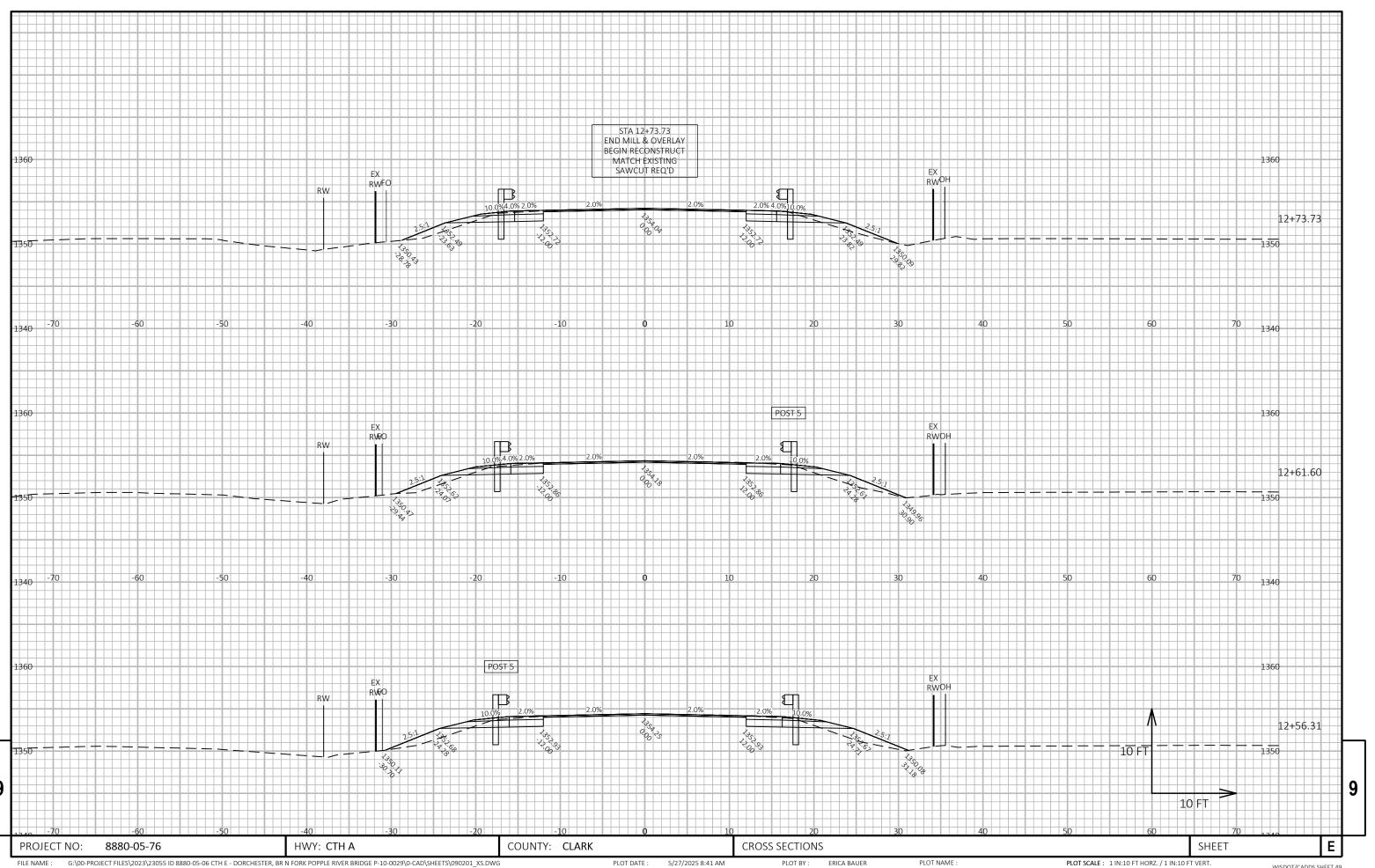
PROJECT NO: 8880-05-76 HWY: CTH A COUNTY: CLARK EARTHWORK DATA FILE NAME: G:\00-PROJECT FILES\2023\23055 ID 8880-05-06 CTH E - DORCHESTER, BR N FORK POPPLE RIVER BRIDGE P-10-0029\0-CAD\SHEETS\090101_EW.DWG LAYOUT NAME - 090101_ew PLOT SCALE : 1" = 1' PLOT DATE : 5/15/2025 2:21 PM PLOT BY: ERICA BAUER PLOT NAME :

SHEET

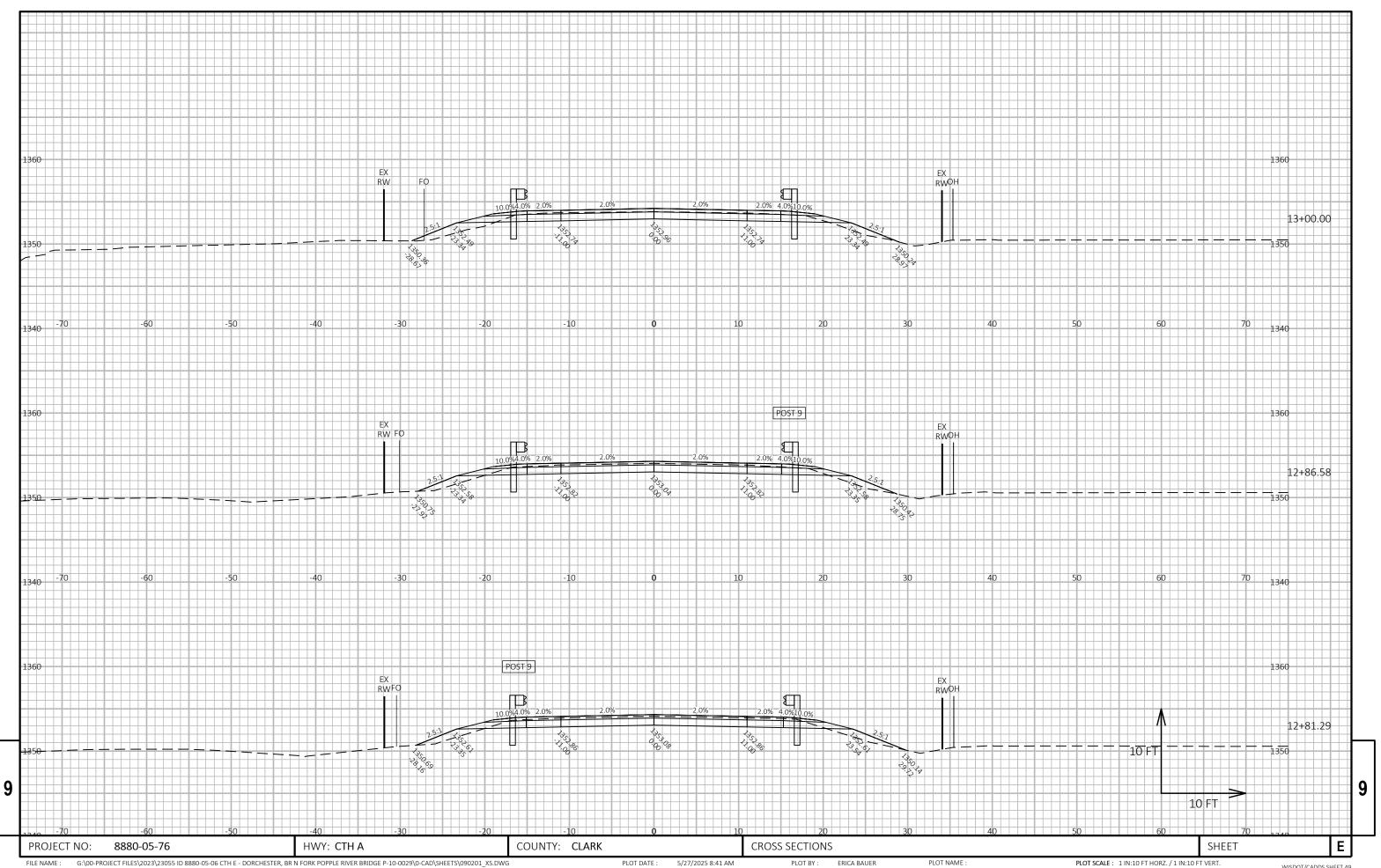




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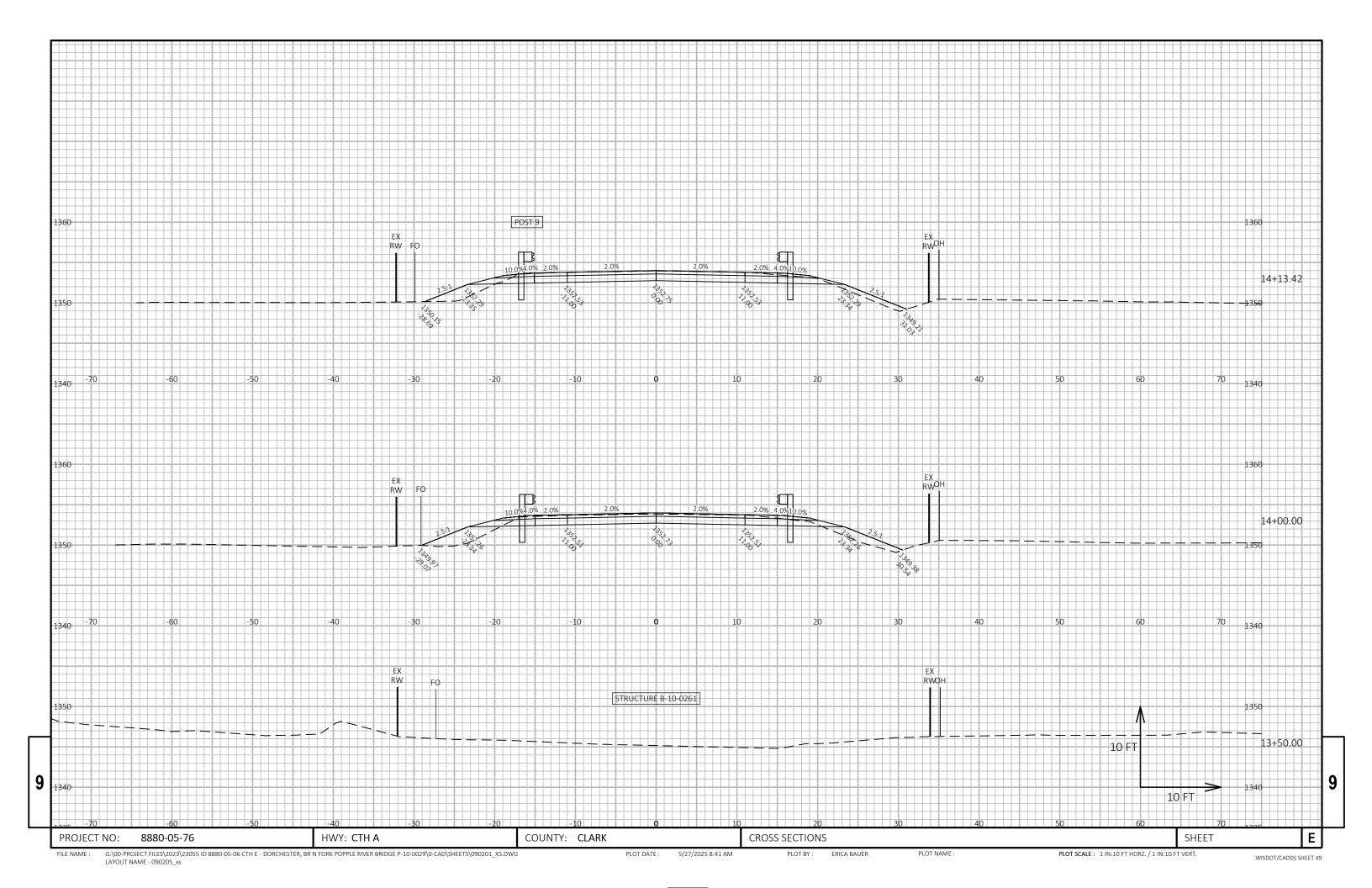


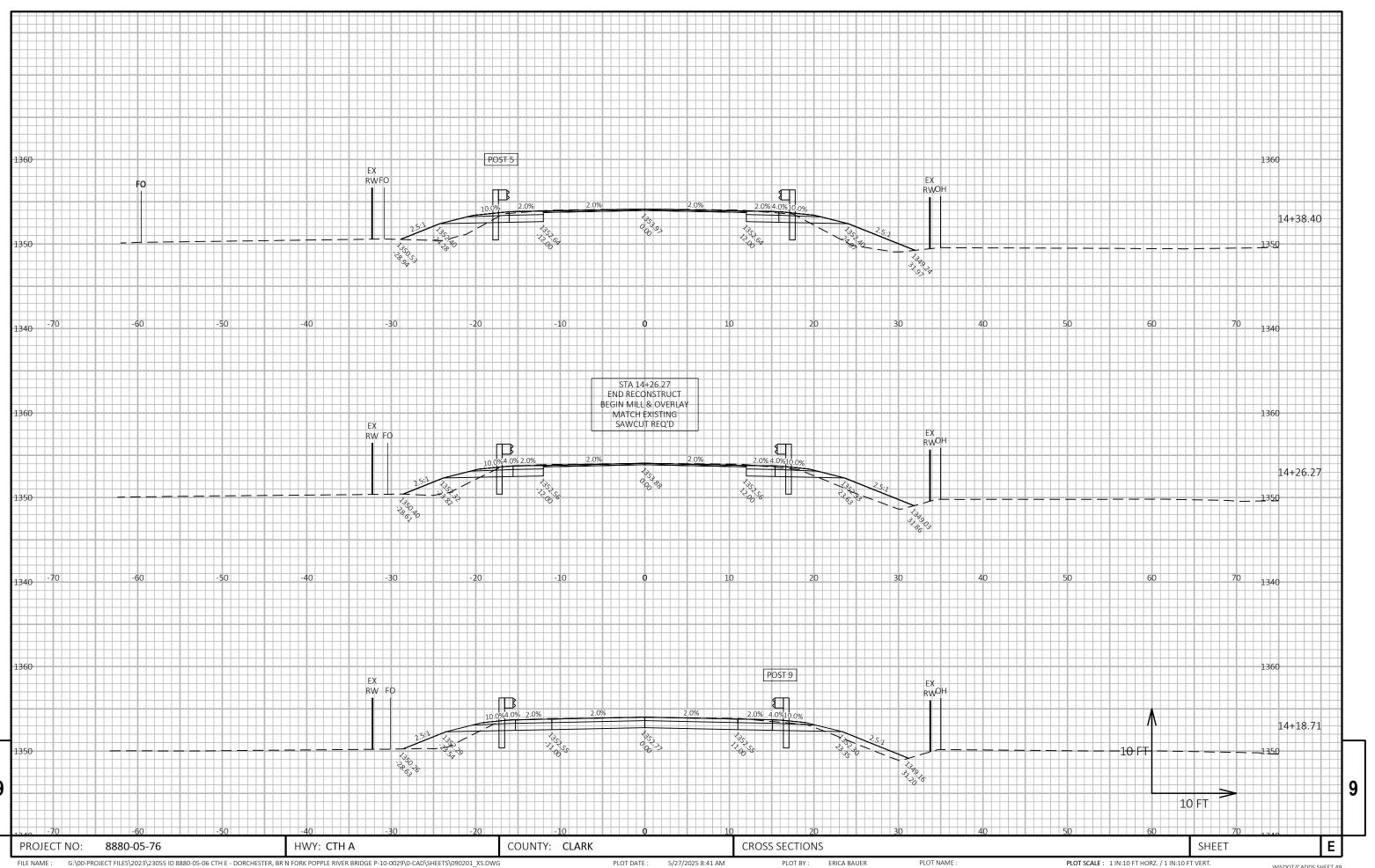
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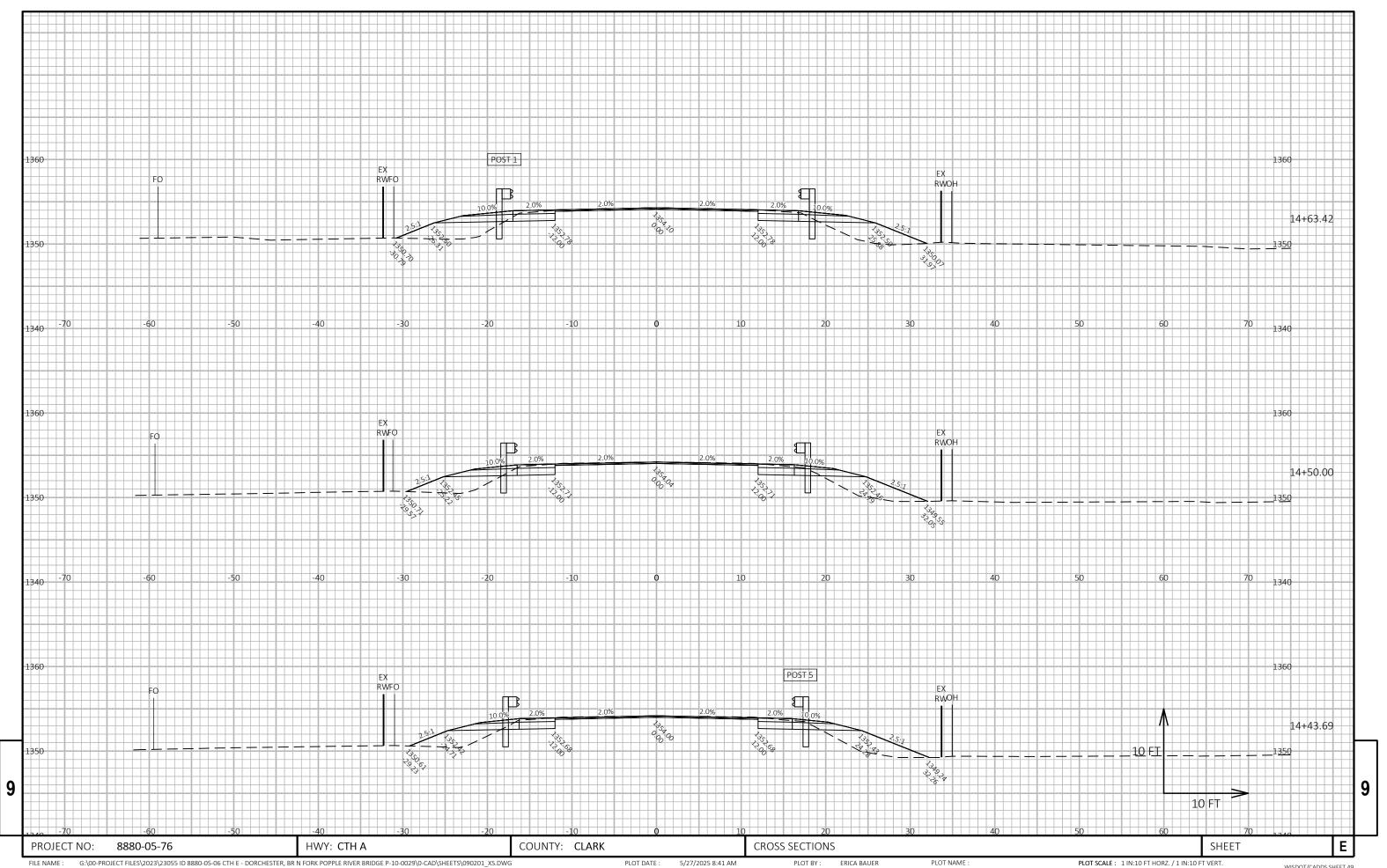
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PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

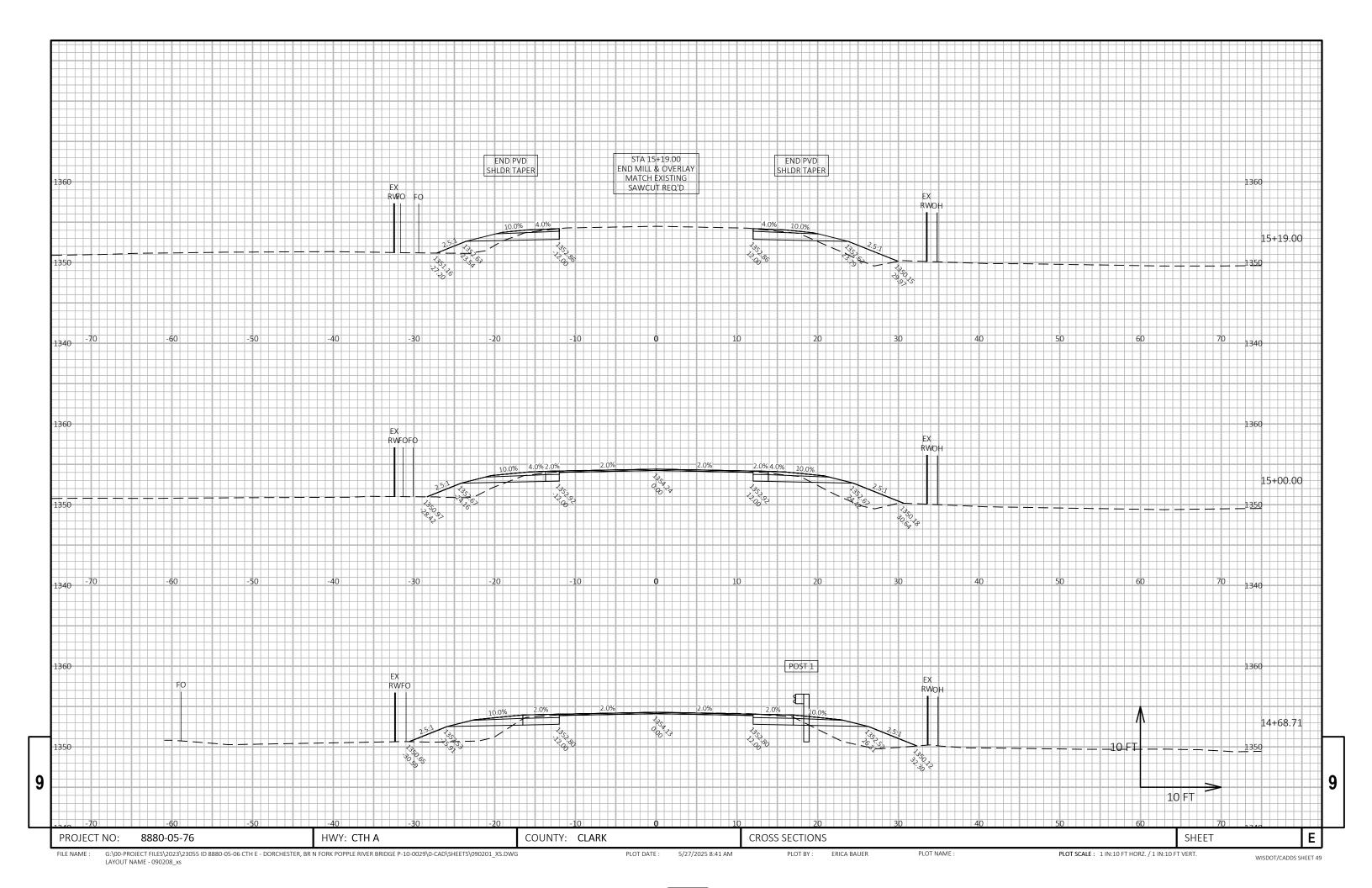


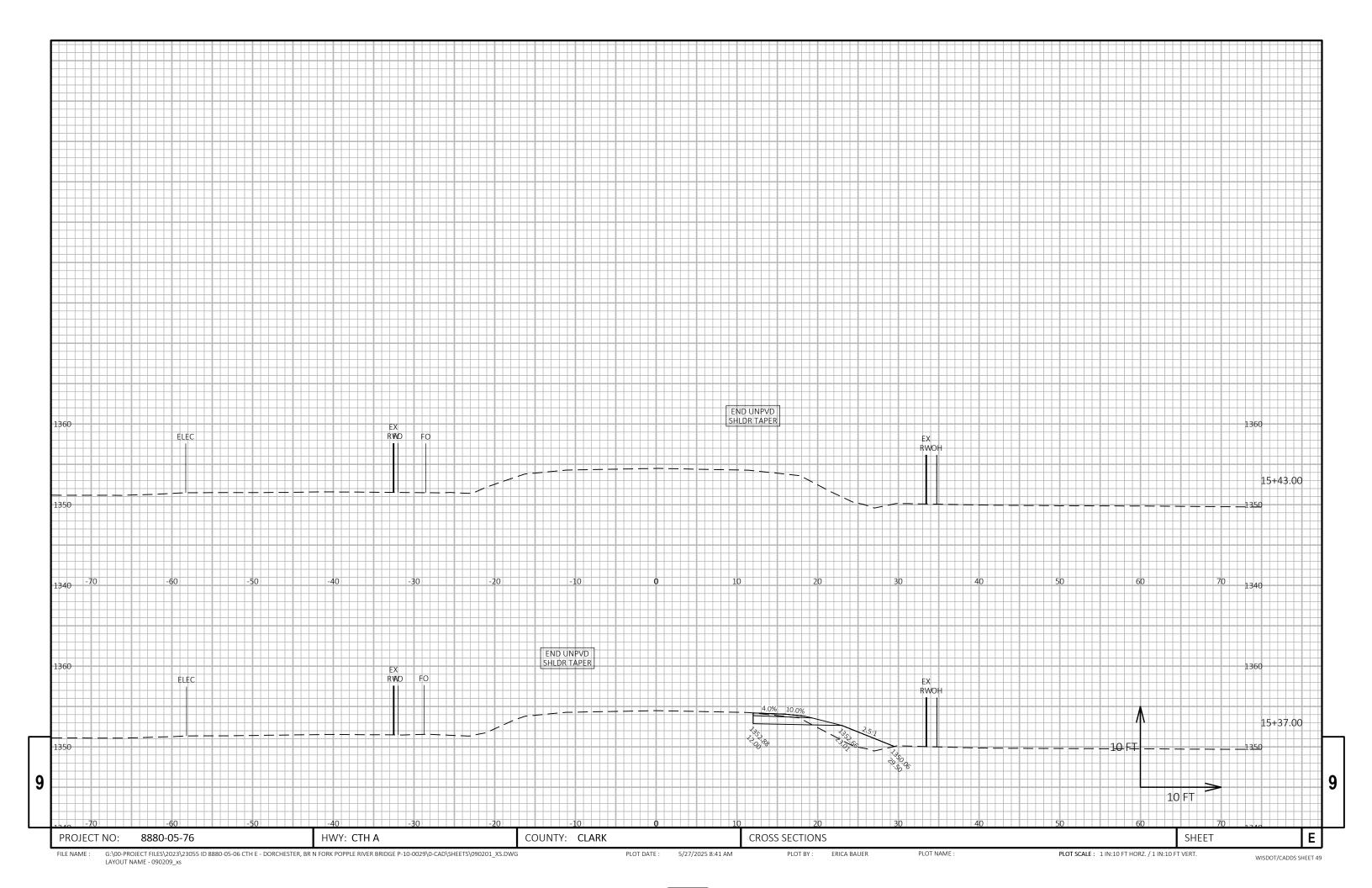


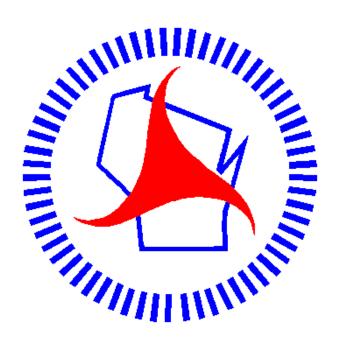
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Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov