NOVEMBER 2021

ORDER OF SHEETS

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.

Section No.

Section No.

Section No.

TOTAL SHEETS =

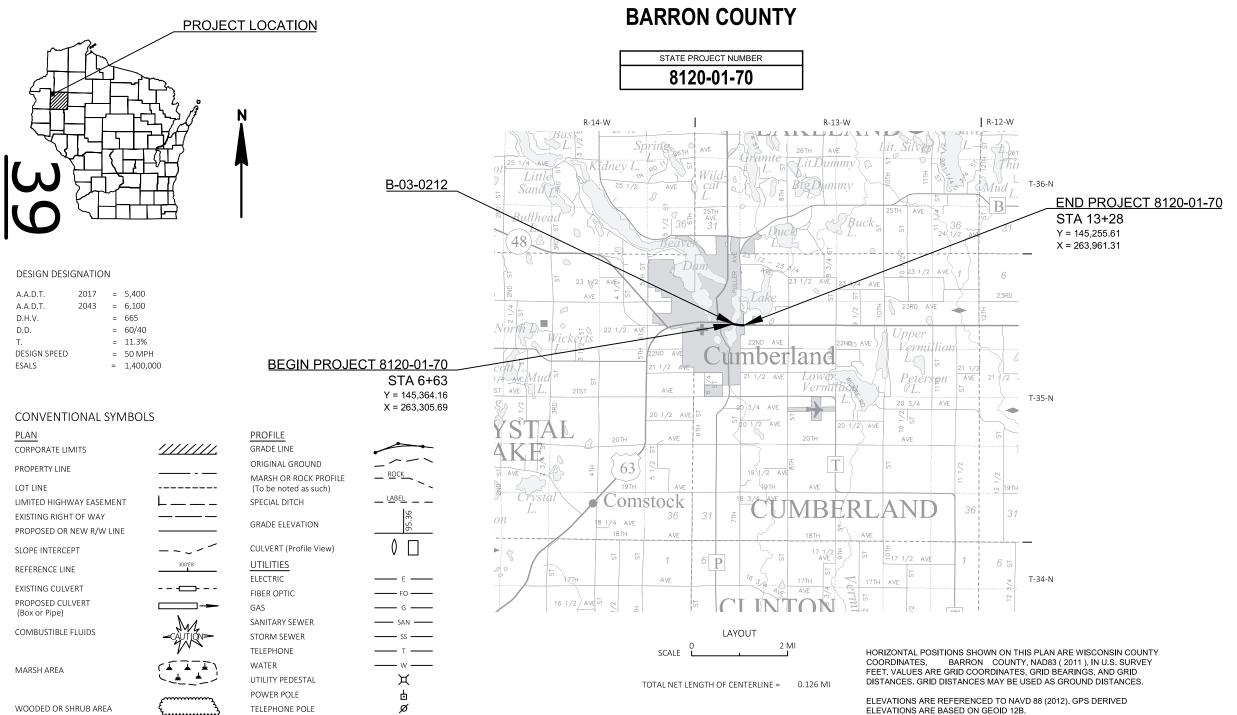
STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details (Includes Erosion Control) Estimate of Quantities

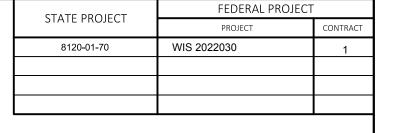
PLAN OF PROPOSED IMPROVEMENT

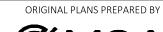
C CUMBERLAND, ELM STREET

HAY RIVER FLOWAGE B-03-0212

STH 48







ENGINEERING | ARCHITECTURE | SURVEYING FUNDING | PLANNING | ENVIRONMENTAL 11 E Marshall Street. Rice Lake WI 54868 (715) 234-1009 www.msa-ps.com



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor Designer Project Manager

WISDOT MSA PROFESSIONAL SERVICES, INC

Ε

PROVED FOR THE DEPARTMENT

7/19/2021 Matthew () Dickenson

FILE NAME: P:\90S\93\00093434\CADD\SHEETSPLAN\010101_TI.DWG SHAWN DOLENS 7/14/2021 7:47 AM

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS OR DESIGNATED RIPRAP AREAS, SHALL BE FERTILIZED, SEEDED, AND COVERED WITH EROSION MATTING AS DIRECTED BY 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.

R/W IS APPROXIMATED ON PLAN SHEETS BASED ON AS-BUILT PLAN AND PLAT DATA.

RUNOFF COEFFICIENT TABLE

	HY	DROLOG	IC SOIL GROUP									
		Þ	4		В			С			D	
	SLO	PE RANG	E (PERCENT)	SLOPI	E RANGE	(PERCENT)	SLOF	PE RANGE	(PERCENT)	SLOF	PE 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
MEDIAN STRIP-	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
TURF	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE:			.25			.27			.28			.30
TURF			.32			.34			.36			.38
PAVEMENT:						.4060						
ASPHALT						.7095						
CONCRETE						.8095				•		
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS, SHO	OULDERS					.4060						

TOTAL PROJECT AREA = 2.88 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 1.19 ACRES

PROJECT CONTACTS

WISCONSIN DNR

DNR NORTHERN REGION HEADQUARTERS AMY CRONK 810 WEST MAPLE STREET SPOONER, WI 54801 PHONE: 715-635-4229 EMAIL: AMY.CRONK@WISCONSIN.GOV

WISDOT PROJECT MANAGER

WISDOT - NW REGION MATT DICKENSON 1701 NORTH 4TH STREET SUPERIOR, WI 54880 PHONE: 715-395-3022

EMAIL: MATTHEW.DICKENSON@DOT.WI.GOV

<u>CITY OF CUMBERLAND</u>

CLERK - TREASURER JULIE KESSLER 920 1ST AVENUE CUMBERLAND, WI 54829 PHONE: 715-822-2752

EMAIL: CLERK@CITYOFCUMBERLAND.NET

UTILITY CONTACTS

WE ENERGIES STEVEN CHAVERS 104 WEST SOUTH STREET RICE LAKE, WI 54868 OFFICE: 715-234-9605

CELL: 715-213-4327 EMAIL: STEVEN.CHAVERS@WE-ENERGIES.COM

ELECTRIC

GAS

CUMBERLAND MUNICIPAL UTILITY DEAN BERGRSTROM 1265 2ND AVENUE CUMBERLAND, WI 54829 OFFICE: 715-822-2595 CELL: 715-822-2595 EMAIL: DEAN@CMUTILITY.COM

ELECTRIC

BARRON ELECTRIC COOPERATIVE JEFF NELSON 1434 N STH 25 BARRON, WI 54812 OFFICE: 715-537-3171 CELL: 715-418-1167

EMAIL: JNELSON@BARRONELECTRIC.COM

COMMUNICATIONS

CHARTER COMMUNICATIONS JAMEY OLDEEN 2304 SOUTH MAIN STREET RICE LAKE, WI 54868 OFFICE: 715-719-0561 CELL: 715-651-7448 EMAIL: JAMEY.OLDEEN@CHARTER.COM 2

COMMUNICATIONS

CENTURYLINK MICHAEL VANDEN BOS 2426 75TH AVENUE OSCEOLA, WI 54020 OFFICE: 608-716-5962 CELL: 715-292-4278 EMAIL: MIKE.VANDENBOS@LUMEN.COM

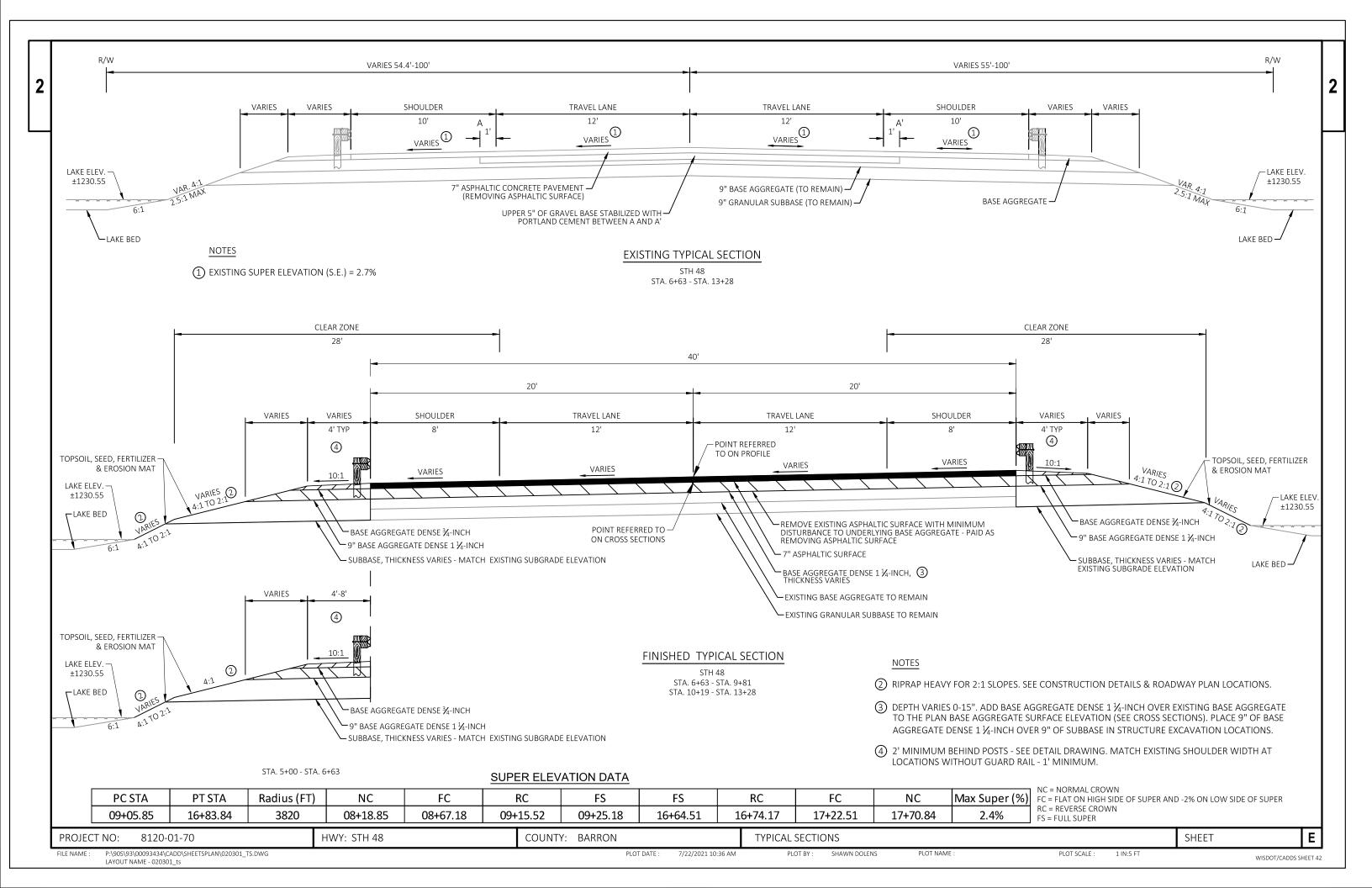
SEWER & WATER

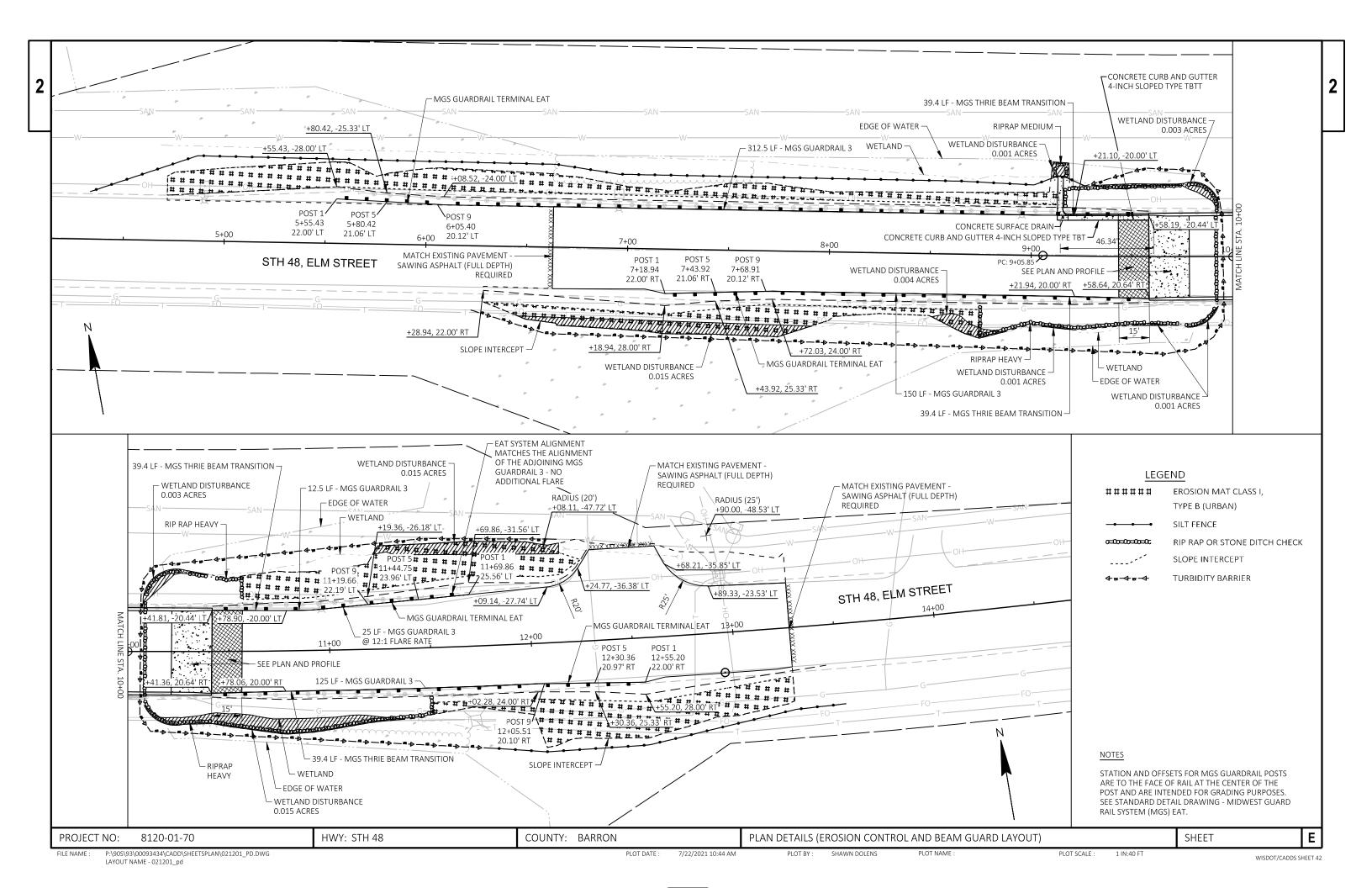
CUMBERLAND MUNICIPAL UTILITY DEAN BERGRSTROM 1265 2ND AVENUE CUMBERLAND, WI 54829 OFFICE: 715-822-2595 CELL: 715-671-8072 EMAIL: DEAN@CMUTILITY.COM

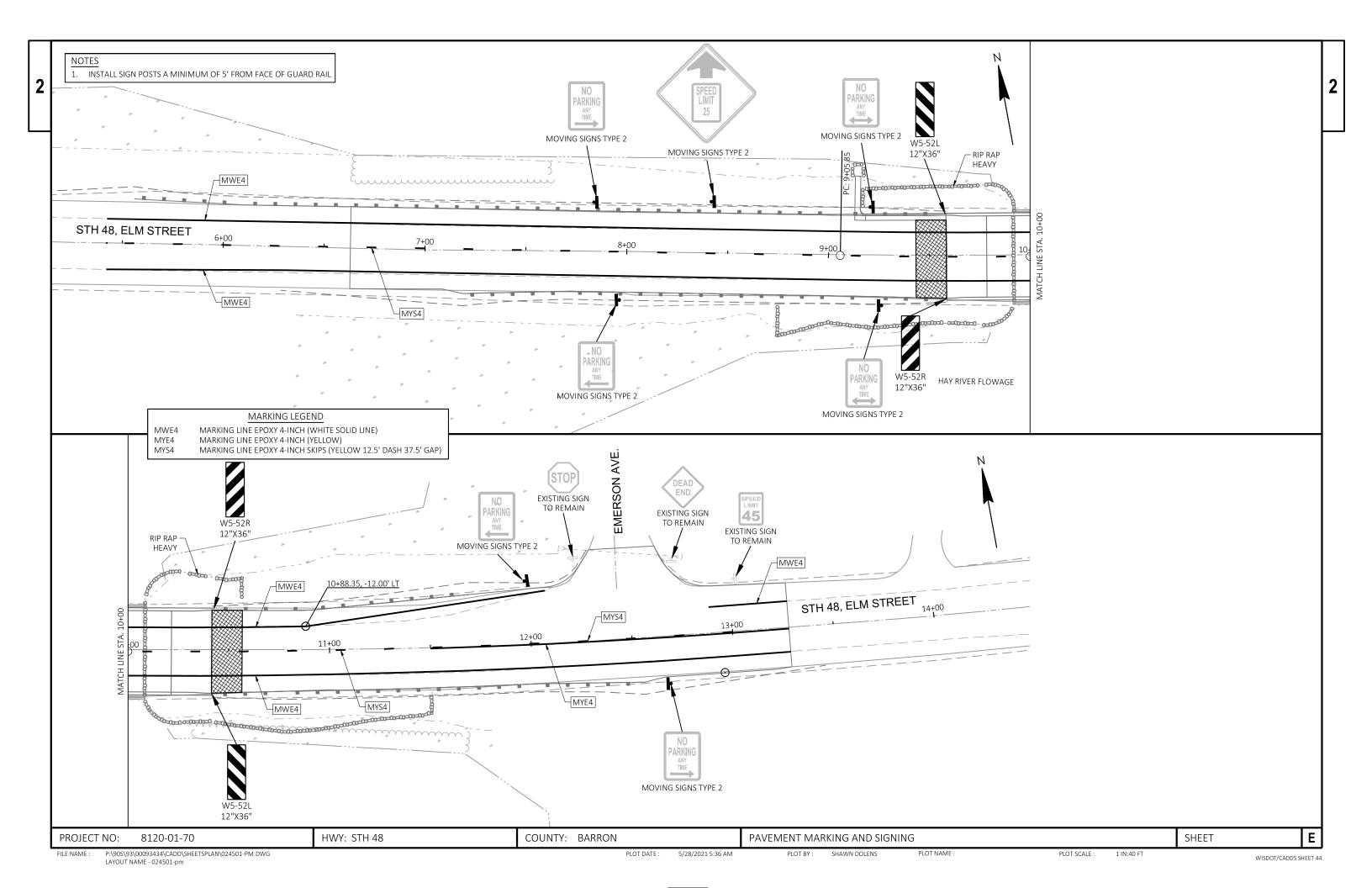


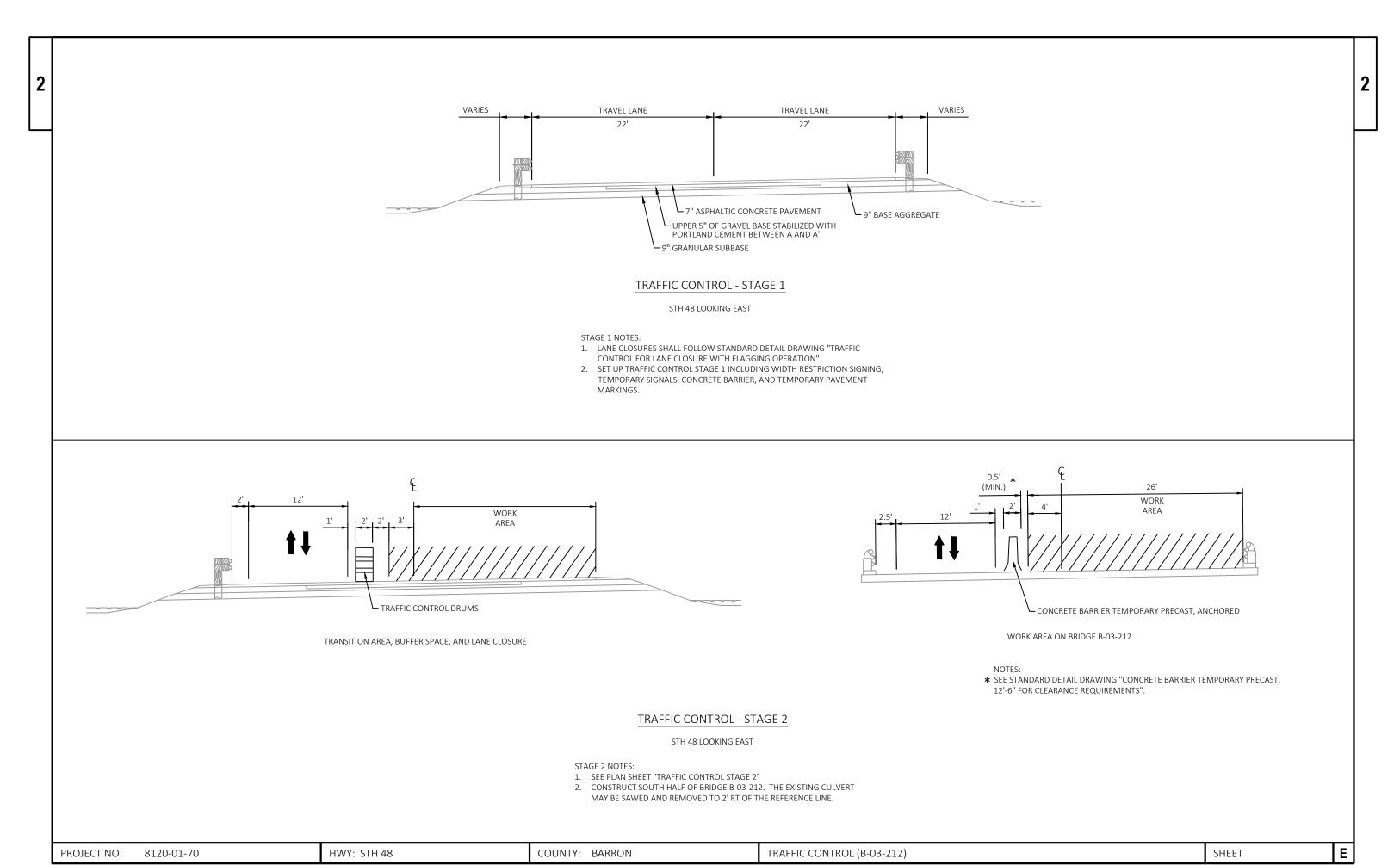
Ε PROJECT NO: 8120-01-70 HWY: STH 48 COUNTY: BARRON **GENERAL NOTES** SHEET FILE NAME :

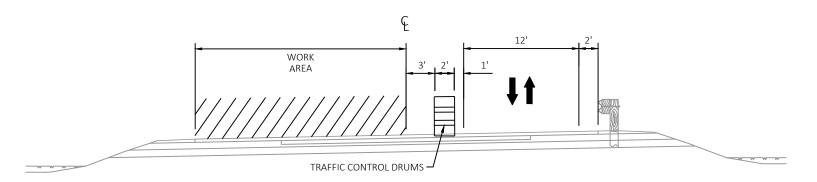
P:\90S\93\00093434\CADD\SHEETSPLAN\020101_GN.DWG COURTNEY ROOYAKKERS PLOT SCALE : 3/5/2021 10:44 AM 1 IN:100 F WISDOT/CADDS SHEET 42











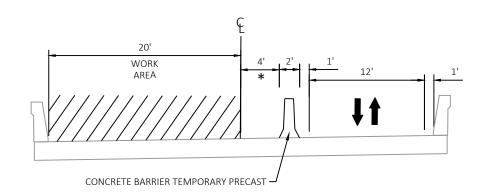
TRANSITION AREA, BUFFER SPACE, AND LANE CLOSURE

TRAFFIC CONTROL - STAGE 3

STH 48 LOOKING EAST

STAGE 3 NOTES:

- 1. SEE PLAN SHEET "TRAFFIC CONTROL STAGE 3"
- 2. CONSTRUCT NORTH HALF OF BRIDGE B-03-212 AND STH 48. MAINTAIN A MINIMUM 4' WIDTH OF BRIDGE DECK OR PAVEMENT BEHIND CONCRETE BARRIER TEMPORARY PRECAST ADJACENT TO ALL DROP-OFFS GREATER THAN 6"



WORK AREA ON BRIDGE B-03-212

NOTES

* SEE STANDARD DETAIL DRAWING "CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"" FOR CLEARANCE REQUIREMENTS.

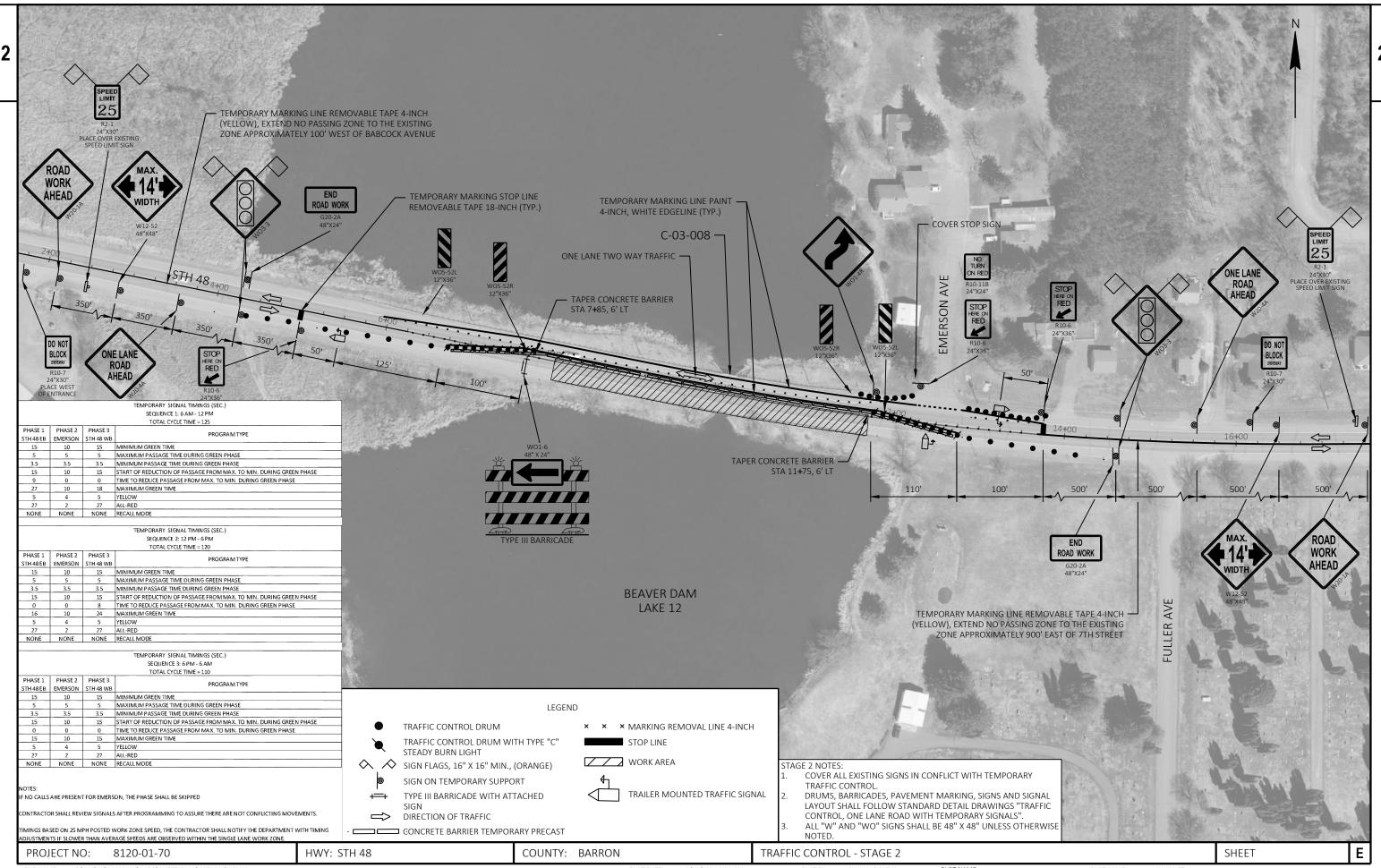
TRAFFIC CONTROL STAGE 4

(NOT SHOWN)

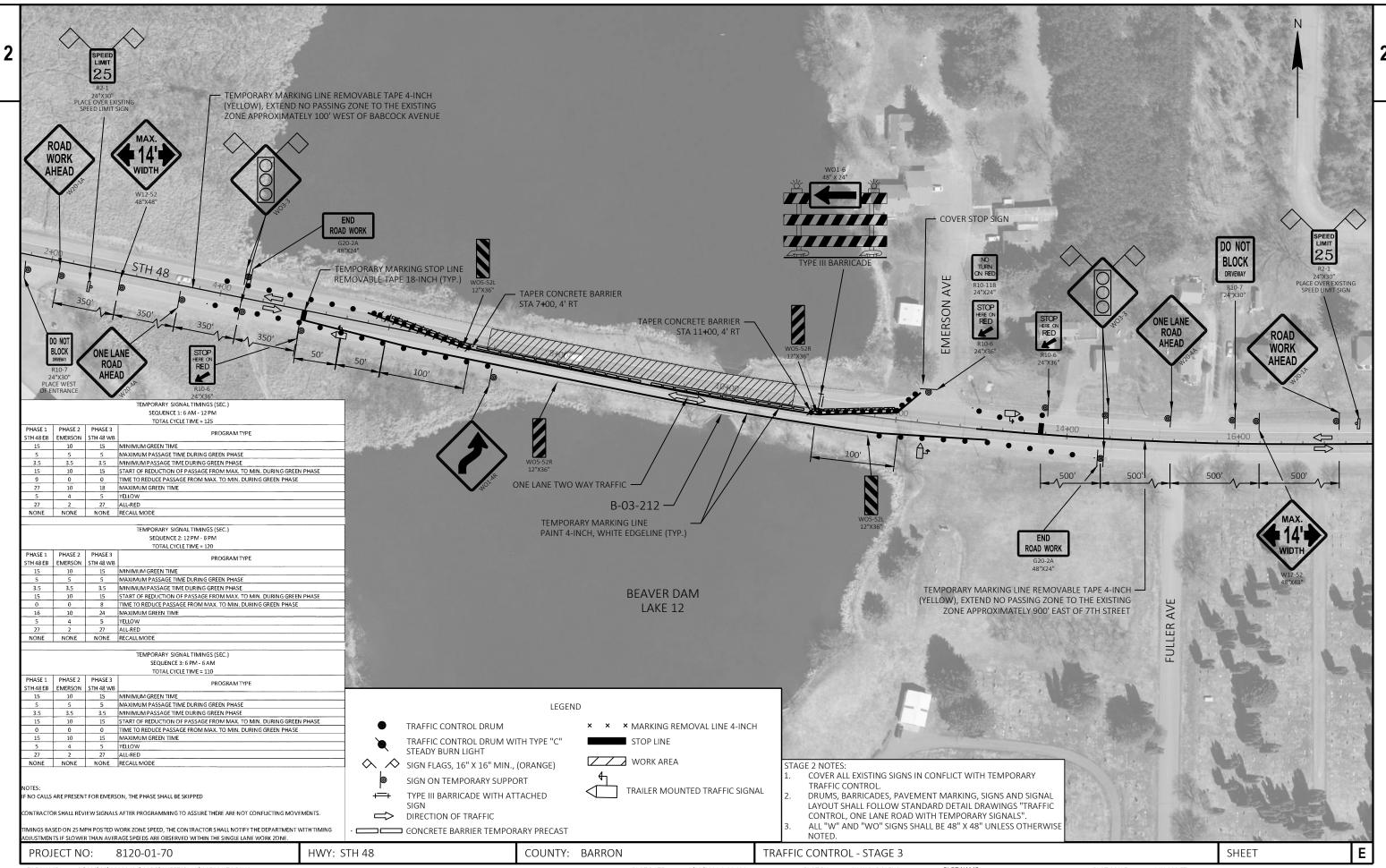
COMPLETE FINAL PAVEMENT REMOVAL, PAVEMENT SURFACING AND MARKINGS UNDER ONE-LANE, TWO-WAY OPERATION UTILIZING FLAGGERS. SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION".

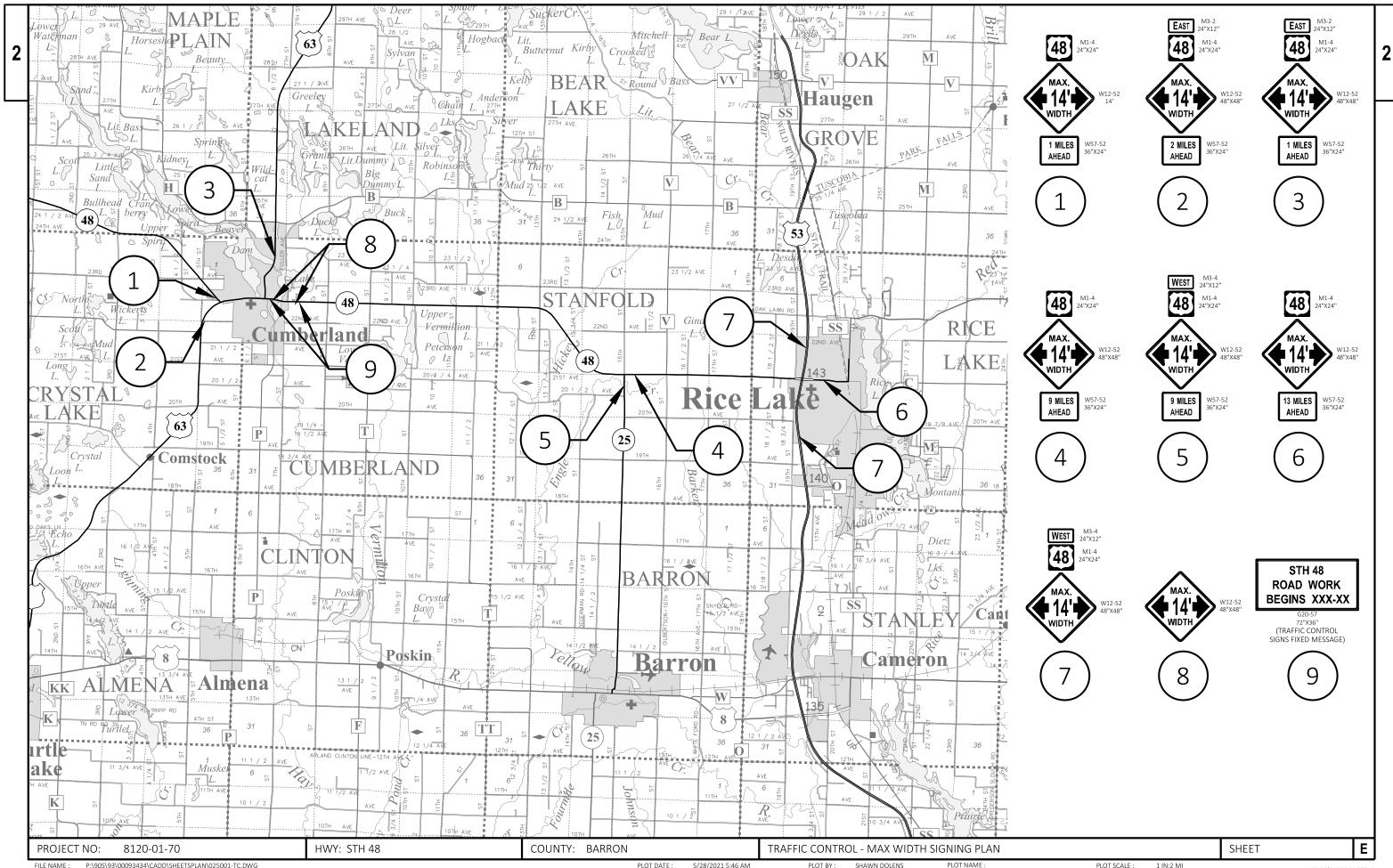
PROJECT NO: 8120-01-70 HWY: STH 48 COUNTY: BARRON TRAFFIC CONTROL (B-03-212) SHEET **E**

AME: P:\905\93\00093434\CADD\SHEETSPLAN\025001-TC.DWG PLOT DATE: 8/19/2021 12:52 PM PLOT BY: SHAWN DOLENS PLOT NAME: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 025002-tc



FILE NAME: PLOT DATE: 8/23/2018:20 AM PLOT BY: SHAWN DOLENS PLOT NAME: 1 IN:100 FT WISDOT/CADDS SHEET 42 AVOUT NAME - 025003-tc





P:\90\$\93\00093434\CADD\SHEETSPLAN\025001-TC.DWG LAYOUT NAME - 025005-tc

PLOT DATE: 5/28/2021 5:46 AM SHAWN DOLENS

PLOT NAME

PLOT SCALE: 1 IN:2 MI

WISDOT/CADDS SHEET 42

					8120-01-70
Line	Item	Item Description	Unit	Total	Qty
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. C-03-0008	EACH	1.000	1.000
0002	203.0260	Removing Structure Over Waterway Millimal Debris (structure) 01. C-03-0006 Removing Asphaltic Surface	SY	2,990.000	2,990.000
0004	204.0110	Removing Aspiratic Surface Removing Guardrail	LF	952.000	952.000
0008	205.0100	Excavation Common	CY	644.000	644.000
0008	206.1000	Excavation Common Excavation for Structures Bridges (structure) 01. B-03-0212	LS	1.000	1.000
0010	210.1500	Backfill Structure Type A	TON	350.000	350.000
0012	213.0100	Finishing Roadway (project) 01. 8120-01-70	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	320.000	320.000
0018	305.0110	Base Aggregate Dense 1 1/4-Inch	TON	2,139.000	2,139.000
0010	415.0410	Concrete Pavement Approach Slab	SY	135.000	135.000
0020	416.1010	Concrete Surface Drains	CY	1.500	1.500
0022	455.0605	Tack Coat	GAL	375.000	375.000
0024	465.0105	Asphaltic Surface	TON	1,060.000	1,060.000
0028	502.0100	Concrete Masonry Bridges	CY	394.000	394.000
0028	502.0100	Protective Surface Treatment	SY	394.000	394.000
0030	502.3200	Pigmented Surface Sealer	SY	83.000	83.000
0032	502.3210	Bar Steel Reinforcement HS Structures			
			LB	6,575.000	6,575.000
0036	505.0600 505.0800.S	Bar Steel Reinforcement HS Coated Structures Bar Steel Reinforcement HS Stainless Structures	LB	55,575.000	55,575.000
0038			LB EACH	400.000	400.000 38.000
0040	505.0908	Bar Couplers No. 8		38.000	
0042	511.1200	Temporary Shoring (structure) 01. B-03-0212	SF	1,200.000	1,200.000
0044	516.0500	Rubberized Membrane Waterproofing	SY	28.000	28.000
0046	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	1,200.000	1,200.000
0048	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	30.000	30.000
0050	601.0590	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	LF	15.000	15.000
0052	603.8000	Concrete Barrier Temporary Precast Delivered	LF	602.000	602.000
0054	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,204.000	1,204.000
0056	603.8500	Anchoring Concrete Barrier Temporary Precast	LF	206.000	206.000
0058	606.0200	Riprap Medium	CY	4.000	4.000
0060	606.0300	Riprap Heavy	CY	490.000	490.000
0062	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	220.000	220.000
0064	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000
0066	614.2300	MGS Guardrail 3	LF	625.000	625.000
0068	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600
0070	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0072 0074	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8120-01-70	EACH EACH	1.000	1.000
0074	619.1000 624.0100	Mobilization Water	MGAL	1.000 33.000	1.000 33.000
0078	625.0100	Topsoil	SY	1,325.000	1,325.000
	628.1504	Silt Fence		680.000	680.000
0800			LF		
0082	628.1520	Silt Fence Maintenance	LF EACH	680.000	680.000
0084	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0086	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
8800	628.2008	Erosion Mat Urban Class I Type B	SY	1,325.000	1,325.000
0090 0092	628.6005 628.7570	Turbidity Barriers Rock Bags	SY EACH	1,080.000 120.000	1,080.000 120.000
0092	629.0210	Fertilizer Type B	CWT	0.850	0.850
0094	630.0130	Seeding Mixture No. 30	LB	27.000	27.000
0098	630.0200	Seeding Temporary	LB	37.000	37.000
0098	030.0200	Seeding Temporary	LB	37.000	37.000

Page 2

8120-01-70

					0120-01-70
Line	Item	Item Description	Unit	Total	Qty
0100	630.0500	Seed Water	MGAL	15.100	15.100
0102	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0104	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0106	638.2102	Moving Signs Type II	EACH	8.000	8.000
0108	638.4000	Moving Small Sign Supports	EACH	8.000	8.000
0110	642.5001	Field Office Type B	EACH	1.000	1.000
0112	643.0300	Traffic Control Drums	DAY	4,800.000	4,800.000
0114	643.0420	Traffic Control Barricades Type III	DAY	80.000	80.000
0116	643.0705	Traffic Control Warning Lights Type A	DAY	160.000	160.000
0118	643.0715	Traffic Control Warning Lights Type C	DAY	1,920.000	1,920.000
0120	643.0900	Traffic Control Signs	DAY	4,420.000	4,420.000
0122	643.0920	Traffic Control Covering Signs Type II	EACH	1.000	1.000
0124	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000
0126	643.5000	Traffic Control	EACH	1.000	1.000
0128	645.0111	Geotextile Type DF Schedule A	SY	90.000	90.000
0130	645.0120	Geotextile Type HR	SY	740.000	740.000
0132	646.1020	Marking Line Epoxy 4-Inch	LF	1,866.000	1,866.000
0134	646.9000	Marking Removal Line 4-Inch	LF	2,445.000	2,445.000
0136	649.0105	Temporary Marking Line Paint 4-Inch	LF	3,210.000	3,210.000
0138	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	2,300.000	2,300.000
0140	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	24.000	24.000
0142	650.4500	Construction Staking Subgrade	LF	550.000	550.000
0144	650.5000	Construction Staking Base	LF	550.000	550.000
0146	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	45.000	45.000
0148	650.6500	Construction Staking Structure Layout (structure) 01. B-03-0212	LS	1.000	1.000
0150	650.7000	Construction Staking Concrete Pavement	LF	70.000	70.000
0152	650.9910	Construction Staking Supplemental Control (project) 01. 8120-01-70	LS	1.000	1.000
0154	650.9920	Construction Staking Slope Stakes	LF	809.000	809.000
0156	661.0100	Temporary Traffic Signals for Bridges (structure) 01. B-03-0212	LS	1.000	1.000
0158	690.0150	Sawing Asphalt	LF	116.000	116.000
0160	715.0502	Incentive Strength Concrete Structures	DOL	2,364.000	2,364.000
0162	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000
0164		Installing and Maintaining Bird Deterrent System (Station) 01. STA 10+00	EACH	1.000	1.000
0166	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0168	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0170	SPV.0195	Special 01. Select Crushed Material For Travel Corridor	TON	30.000	30.000
3170	J1 V.0100	Special of Coloci Ordenou Material For Travel Confiden	1011	00.000	00.000

			204.0110										205.0100						
			REMOVING ASPHALTIC SURFACE					204.0165 REMOVING GUARDRAIL					EXCAVATION COMMON	(1) UNUSABLE MATERIAL	(2)AVAILABLE MATERIAL	UNEXPANDED FILL	(3)EXPANDED FILL	(4)MASS ORDINATE (+/-)	
STATION	TO	STATION	SY	STATION	TO	STATION	LOCATION	LF	STATION	ТО	STATION	LOCATION	CY	CY	CY	CY	CY	СУ	REMARKS
6+63	_	9+79	1,401	5+60	-	11+45	LT	585	5+00	_	9+77	LT & RT	457	131	326	124	155	171	
10+21	_	13+28	1,589	8+05	-	11+72	RT	367	10+22	-	13+28	LT & RT	187	147	40	361	451	-304	
									9+77	-	10+39	LT & RT			480			480	STRUCTURE EXCAVATION
		TOTAL 0010	2,990				TOTAL 0010	952											
												TOTAL 0010	644	=					
											(1) EVICTING	ACDUALTIC ACCID	MED LINILISARI E MA	TEDIAL					

- (1) EXISTING ASPHALT IS ASSUMED UNUSABLE MATERIAL
- (2) AVAILABLE MATERIAL AT STURCUTRE EXCAVATION = 75% OF THE ROAD CORE EXCAVATION BETWEEN OLD AND NEW STRUCTURES
- (3) EXPANDED FILL FACTOR = 1.25
- (4) THE MASS ORDINATE + OR QUANTITY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

		305.0110 BASE AGGREGATE DENSE 3/4-INCH	305.0120 BASE AGGREGATE DENSE 1 1/4- INCH	624.0100 WATER			415.0410 CONCRETE PAVEMENT					416.1010 CONCRETE SURFACE	601.0588 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH	601.0590 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH
STATION TO STATION	LOCATION	TON	TON	MGAL	STATION TO STATION LO) CATION	APPROACH SLAB SY	STATION	ТО	STATION	LOCATION	DRAINS CY	TYPE TBT LF	TYPE TBTT LF
					SIMILEN TO SIMILEN EST	, c, tiloit		STATION	10	STATION	ECCATION	CI	LI	LI
5+00 - 9+77	LT & RT	174	822	15	9+43 - 9+58		65	9+13	-	9+58	LT		30	15
10+22 - 13+25	LT & RT	146	1,047	18	10+42 - 10+57		70			9+13	LT	1.5		
	TOTAL 0010	320	1,869	33	TOT.	 ΓΑL 0010	135				TOTAL 0010	1.5	30	15

							603.8000	603.8125	603.8500							
							CONCRETE	CONCRETE	ANCHORING							
							BARRIER	BARRIER	CONCRETE						614.2300	614.2300 614.2500
				455.0605	465.0105		TEMPORARY	TEMPORARY	BARRIER							MGS THRI
					ASPHALTIC		PRECAST	PRECAST	TEMPORARY						MGS GUARDRAIL	MGS GUARDRAIL BEAM
				TACK COAT	SURFACE		DELIVERED	INSTALLED	PRECAST						3	3 TRANSITIO
ION	ТО	STATION	LOCATION	GAL	TON	LOCATION	LF	LF	LF	STATION	TO	STATION	LOCATION		LF	LF LF
		0.50	NAAINII INIE	175	404	STAGE 2	602	602	102	5+55	_	9+58	LT		312.5	312.5 39.4
,	-	9+58	MAINLINE	175	494				103	7+19	_	9+58	RT		150	150 39.4
2	-	13+28	MAINLINE	200	566	STAGE 3		602	103	10+42	-	11+70	LT		37.5	
			TOTAL 0010	375	1,060	TOTAL 0010	602	1,204	206	10+41	-	12+55	RT		125	125 39.4
													TOTAL 0010)	625	625 157.6

HWY: STH 48 COUNTY: BARRON SHEET PROJECT NO: 8120-01-70 MISCELLANEOUS QUANTITIES PLOT DATE: 8/23/2021 9:46 AM PLOT BY: SHAWN DOLENS PLOT NAME :

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STATION	TO	STATION	N I	OCATION	625.010 TOPSOI SY		MOBILIZ	SION TROL	MOBILI EMER ERC CON	1910 ZATIONS GENCY SION TROL	ERC URB	28.2008 DSION MAT AN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.013 SEEDING MIXTUR NO. 30 LB	G E SEE TEMP	.0200 DING PORARY LB	630.0500 SEED WATER MGAL
				PROJECT			į	5		3							
5+00	-	9+43		LT	406		-	-				406	0.26	8		11	4.6
6+29	-	9+43		RT	248		-	-				248	0.16	5		7	2.8
10+56	-	12+31		LT	296		-	-				296	0.19	6		8	3.4
11+50	-	13+28		RT	280							280	0.18	6		8	3.2
12+63	-	13+28		LT	95		-	-				95	0.06	2		3	1.1
			T	OTAL 0010	1,325		į.	5		3		1,325	0.85	27		37	15.1
		STATION	TO	STATION	LOCATI	ON	628.15 SILT FEN LF		628.1520 SILT FENCE IAINTENANC LF	TUR E BAR	.6005 BIDITY RIERS SY	628.7570 ROCK BAGS EACH		REMA	RKS		
	_	5+00	-	9+25	LT		500		500					11211111			
		6+23	_	9+95	RT					4	50	_	INCLUDE	S TO THE CL C	OF WEST ABU	TMENT	
		9+26	_	9+95	LT						15	_		S TO THE CL C			
		10+06	_	11+80	RT						30	_	INCLUDI	ES TO THE CL (OF EAST ABU	TMENT	
		10+06	-	12+15	LT					2	65	_	INCLUDI	ES TO THE CL (OF EAST ABU	TMENT	
	_	11+80	-	13+28	RT		180		180			-					
					UNDISTRIE	UTED					20	-					
					UNDISTRIE	UTED						120	USED FOR	SILT FENCE R	RELIEF AS NEC	CESSARY	
					TOTAL 0	010	680		680	1,	080	120	•				
								634.0 POSTS	WOOD	637.223		638.2102		3.4000			
								4X6-II 12-		SIGNS TYPE		MOVING SIGN TYPE II		NG SMALL SUPPORTS			
	STATI	ON	LOCATI	ON 9	SIGN CODE	SIZ	F	EA		SF	/ C F	EACH		EACH	RF	MARKS	
-	JIAII	OIV	LOCATI		SIGIV CODE	312	_		CIT	- 51		EACH		ACII	IVE	VIAINO	
	7+8	4	LT					-	-			1		1	NO F	PARKING	
	7+9		RT					-	-			1		1		PARKING	
	8+4		LT					-	-			1		1		SPEED LIMIT	-
	9+2		LT					-	-			1		1	NO F	PARKING	
_	9+2	5	RT					-	-			1		1	NO F	PARKING	
_	9+5		LT		W5-52L	12"X	36"	1	L	3.0		-	-			T MARKER	_
	9+5	8	RT		W5-52R	12"X	36"	1	L	3.0					OBJEC	TMARKER	
	10+	12	LT		W5-52L	12"X	36"	1	l	3.0					OBJEC	TMARKER	
	10+	42	RT		W5-52R	12"X	36"	1	l	3.0					OBJEC	TMARKER	
_	12+0	00	LT					-	-			1		1	NO F	PARKING	
	12+		RT					-	-			1		1	NO F	PARKING	
			RT					-	-			1		1	NO PAS	SING ZONE	
		T	FOTAL 0	010					1	12		8		8			

PROJECT NO: 8120-01-70

HWY: STH 48

COUNTY: BARRON

MISCELLANEOUS QUANTITIES

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SHEET

ation to st	TATION	LOCA	606.C RIPF MEDI TION C	AP UM I	606.0300 RIPRAP HEAVY* CY	645.0120 GEOTEXTILE TYPE HR* SY	LOCATI	DURATION DN DAY	643.0300 TRAFFIC CONTROL DRUMS DAY	TRAFFIC CONTROL BARRICADES	TRAFFIC CONTROL WARNING	643.0715 TRAFFIC CONTROL WARNING GHTS TYPE C DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	643.50 TRAFFI CONTRI EACH	C DL	REMARKS
3+75 - <u>9</u>	9+92	R	T		87	130												
	9+14	L				5	PROJE	T							36	1) BE PLACED AT PROJECT S PRIOR TO CONSTRUCTION
	9+92	L			43	63	T NOSE	- 1							30	_		VHEN CONSTRUCTION BEGI
	.0+57 .1+50	L R			19 131	27 195	STAGE			-			60		-			
		UNDIST				10	STAGE	2 40	2,480	40	80	960	2,120		-		1 CVCL F FOR CT	ACEC 2 AND 2 CTOD CICAL
							STAGE	2						1				AGES 2 AND 3. STOP SIGN A IERSON AVENUE.
		TOTAL	.0010 4		280	430	STAGE	3 40	2,320	40	80	960	2,120				217	ienson weitee.
DITIONAL QUANT	TITIES SH	HOWN IN ST	RUCTURE PLANS				STAGE	4 10				-	120					
							TOTAL 0	010	4,800	80	160	1,920	4,420	1	36	1		
								646.9000	649.0105	649.0150	649.0850							
					46.1020 LINE EPOXY 4-	INCH		MARKING	TEMPORARY	TEMPORARY MARKING LINE	TEMPORARY MARKING STOP							661.0100 TEMPORARY TRAFFIC SIGNALS
STATION	ТО	STATION	LOCATION	WHITE LF	YELLO LF		LOCATION	REMOVAL LINE 4-INCH LF	MARKING LINE PAINT 4-INCH LF	REMOVABLE TAPE 4-INCH LF	LINE REMOVABLE TAPE 18-INCH LF	RE	MARKS		STATION	TO STA	TION LOCATION	FOR BRIDGES (B-03-0212) LS
5+42	-	12+08	LT	666										_				
5+42 5+42	-	13+28 13+28	CL RT	 787	375 		STAGE 2 STAGE 2	720 325	1,400		24		THIN LANE SHIFT		6+63	- 13	+28 PROJECT	1
12+89	-	13+28	LT	39			STAGE 2			 2,300			THIN LANE SHIFT TSIDE LANE SHIF				TOTAL 0010	1
			_				STAGE 3	1,400	1,810			WHITE WI	THIN LANE SHIFT				101/12 0010	1
			TOTAL 0010		1,866						2.1							
							TOTAL 0010	2,445	3,210	2,300	24							
				6.	50.4500	650.5000	650.5500	650.7000	650.9920	650.6500.01	650.9910.0 CONSTRUCTIO							
					ISTRUCTION	CONSTRUCTION	CONSTRUCTION STAKING CURB	STAKING	CONSTRUCTION	CONSTRUCTION STAKING STRUCTUR LAYOUT	CONTROL							
					STAKING UBGRADE	CONSTRUCTION STAKING BASE	GUTTER AND CURB & GUTTER	CONCRETE PAVEMENT	STAKING SLOPE STAKES	(STRUCTURE B-03- 0212)	(PROJECT 8120 70)	-01-						
		STATION	LOCATION		LF	LF	LF	LF	LF	LS	LS							690.0150
STATION	TO									1	1							SAWING ASPHALT
STATION			PROJECT 9120 0	1-70					500						STA	ATION	LOCATION	LF
<u>STATION</u> 4+75	TO -	9+78	PROJECT 8120-0 LT	L-70														
	-	9+78 9+81	LT LT & RT	L-70	 280	 280												
4+75 6+63 9+13	- - -	9+81 9+58	LT LT & RT LT	L-70	280 	280	 45									+63	LT & RT	43
4+75 6+63 9+13 9+58	- - - -	9+81 9+58 10+42	LT LT & RT LT LT & RT	L-70	280 	280 											EMERSON AVENUE	30
4+75 6+63 9+13	- - - -	9+81 9+58 10+42	LT LT & RT LT		280 	280	 45 	 70										

PLOT DATE: 8/23/2021 9:46 AM

MISCELLANEOUS QUANTITIES

PLOT BY: SHAWN DOLENS

PLOT NAME :

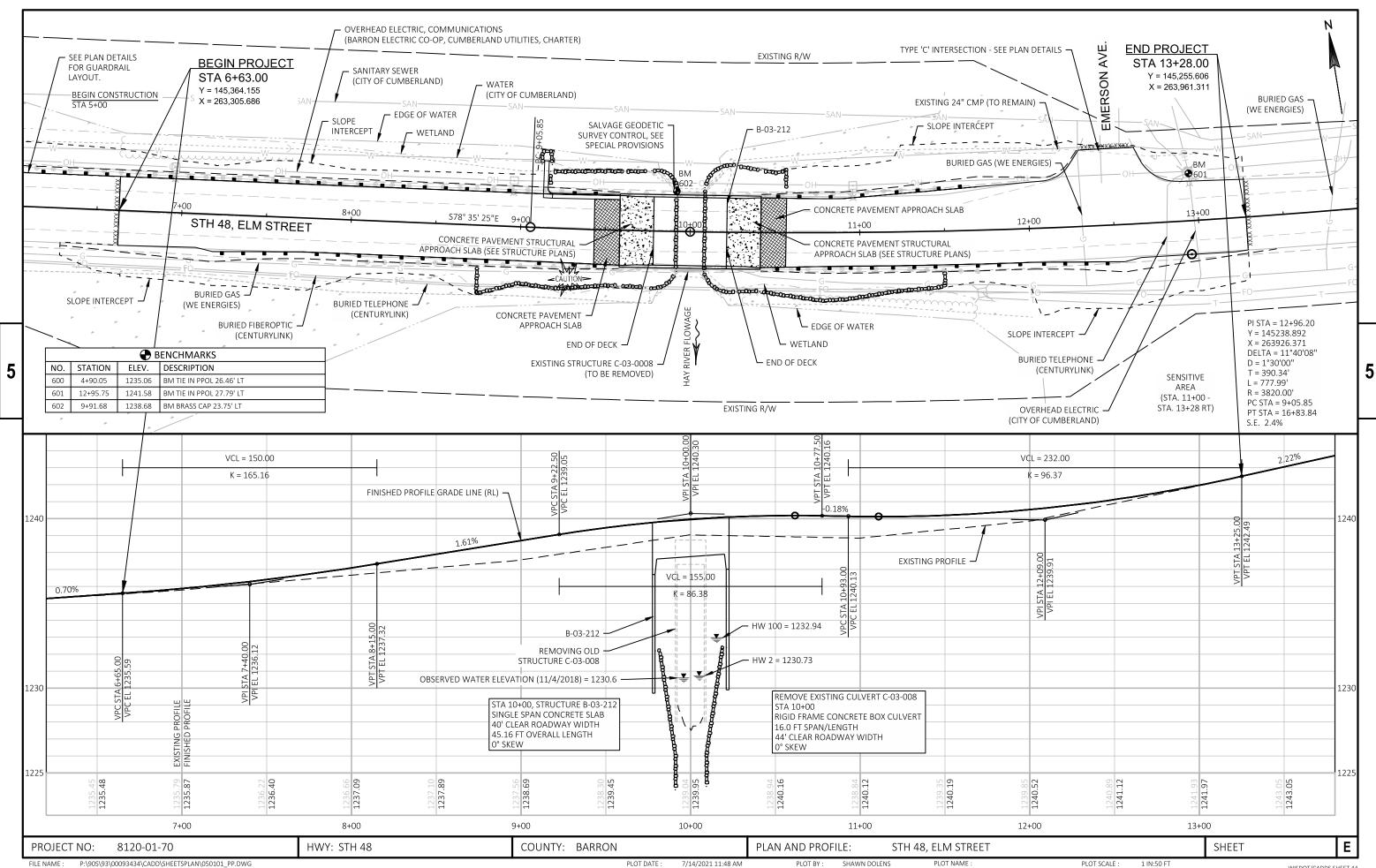
COUNTY: BARRON

PROJECT NO: 8120-01-70

E

SHEET

HWY: STH 48

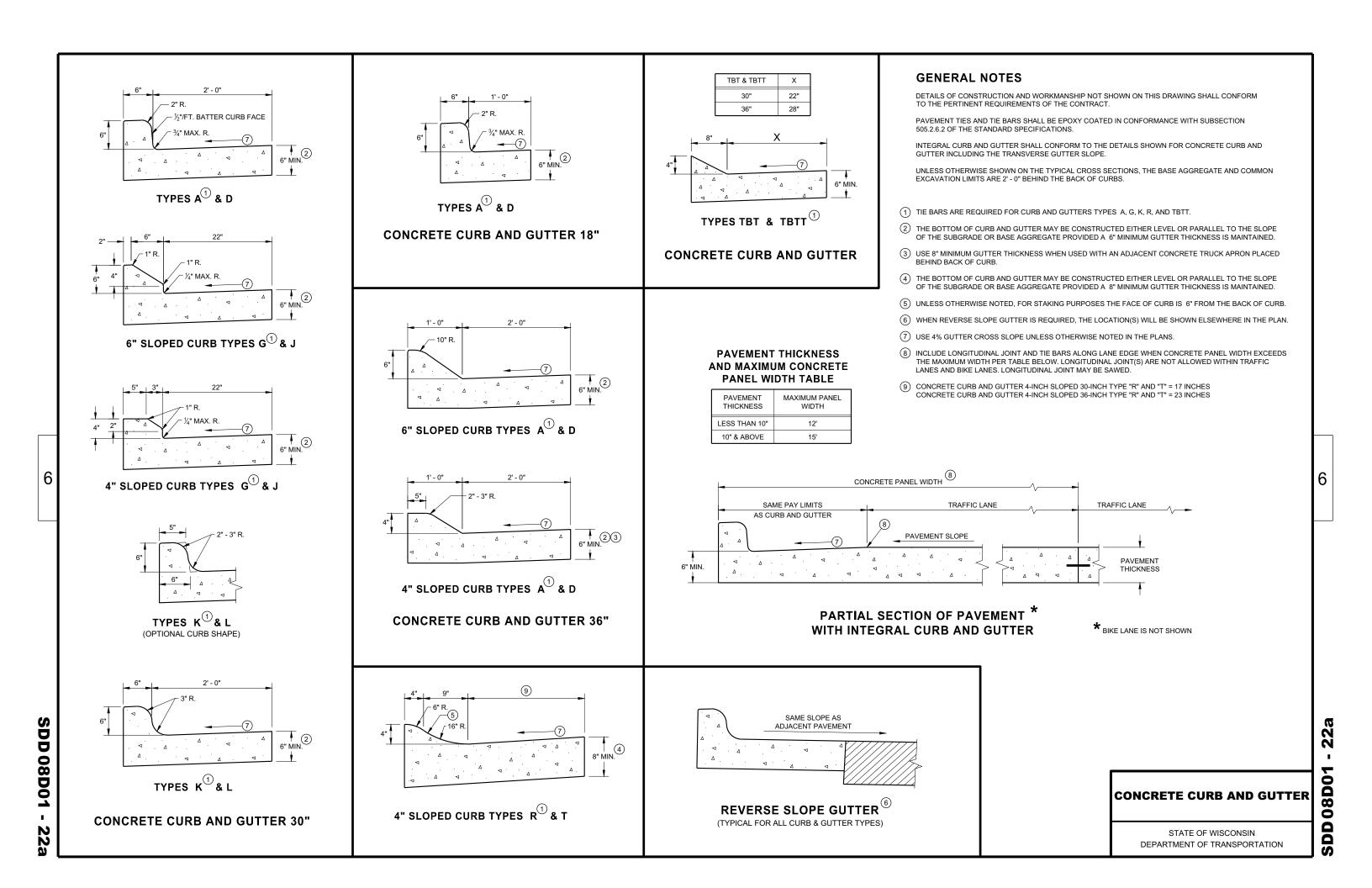


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Standard Detail Drawing List

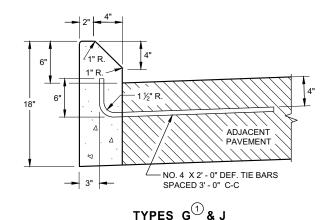
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	
	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-07A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
09G02-05A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
12A03-10	NAME PLATE (STRUCTURES)
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13в02-09в	STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
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)
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
	<u>.</u>
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D31-03	TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY
15D33-06	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



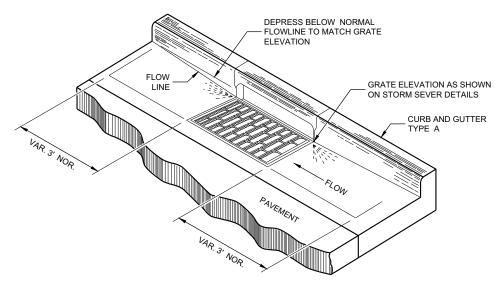
DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

TYPES A D



CONCRETE CURB



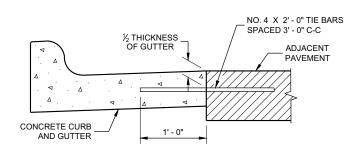
GENERAL NOTES

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

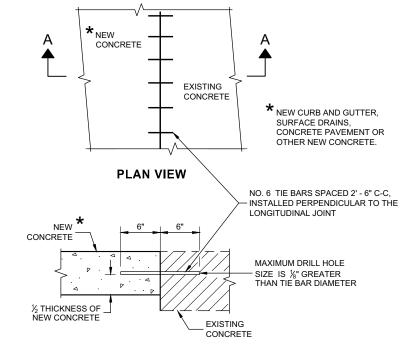
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'- 0" BEHIND THE BACK OF CURBS.

- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- (2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- 9 REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

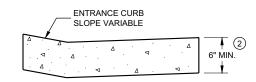


TYPICAL TIE BAR LOCATION $^{\scriptsize{\scriptsize{\scriptsize{\scriptsize{\scriptsize{1}}}}}}$



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

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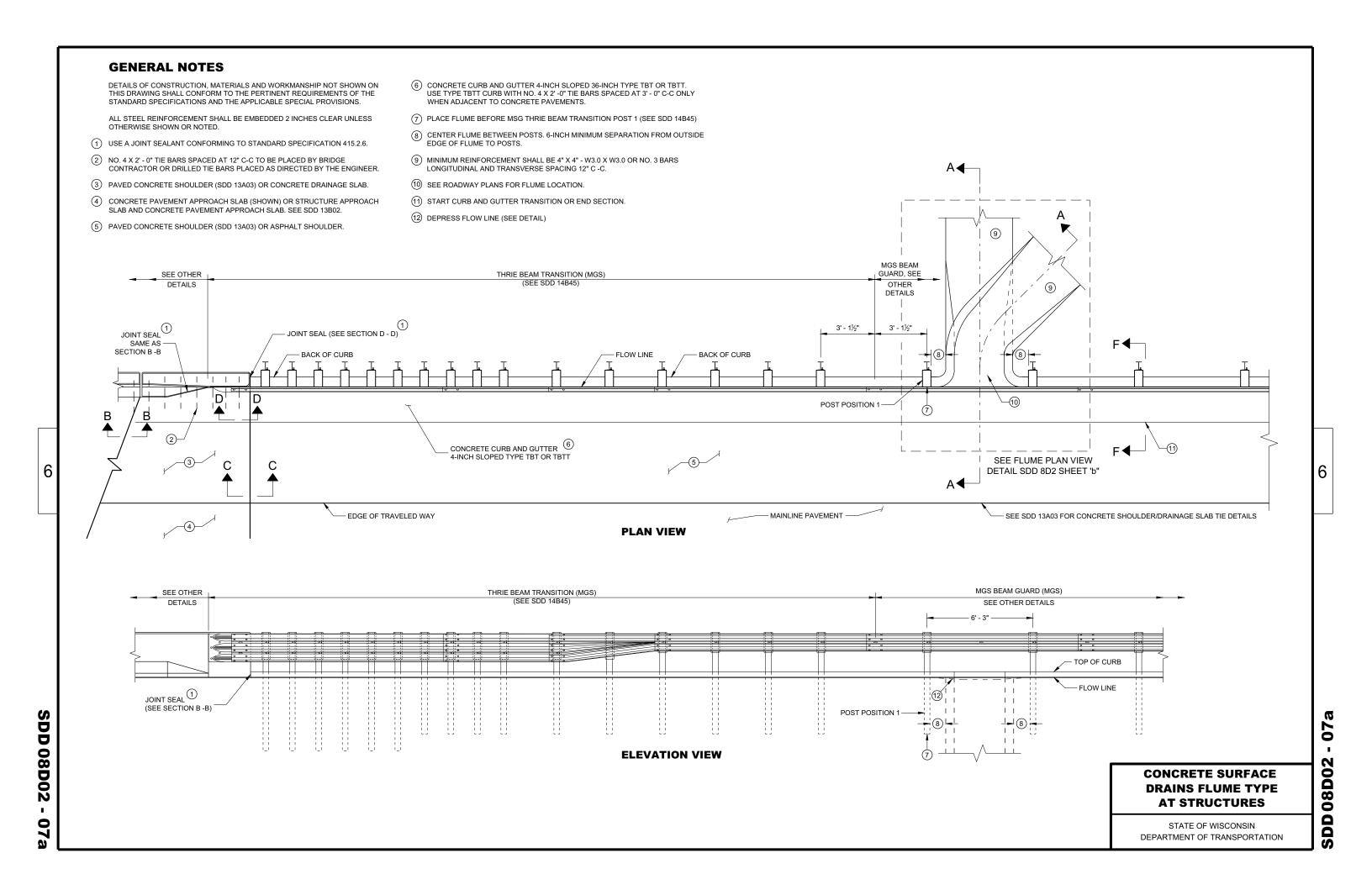
08DO

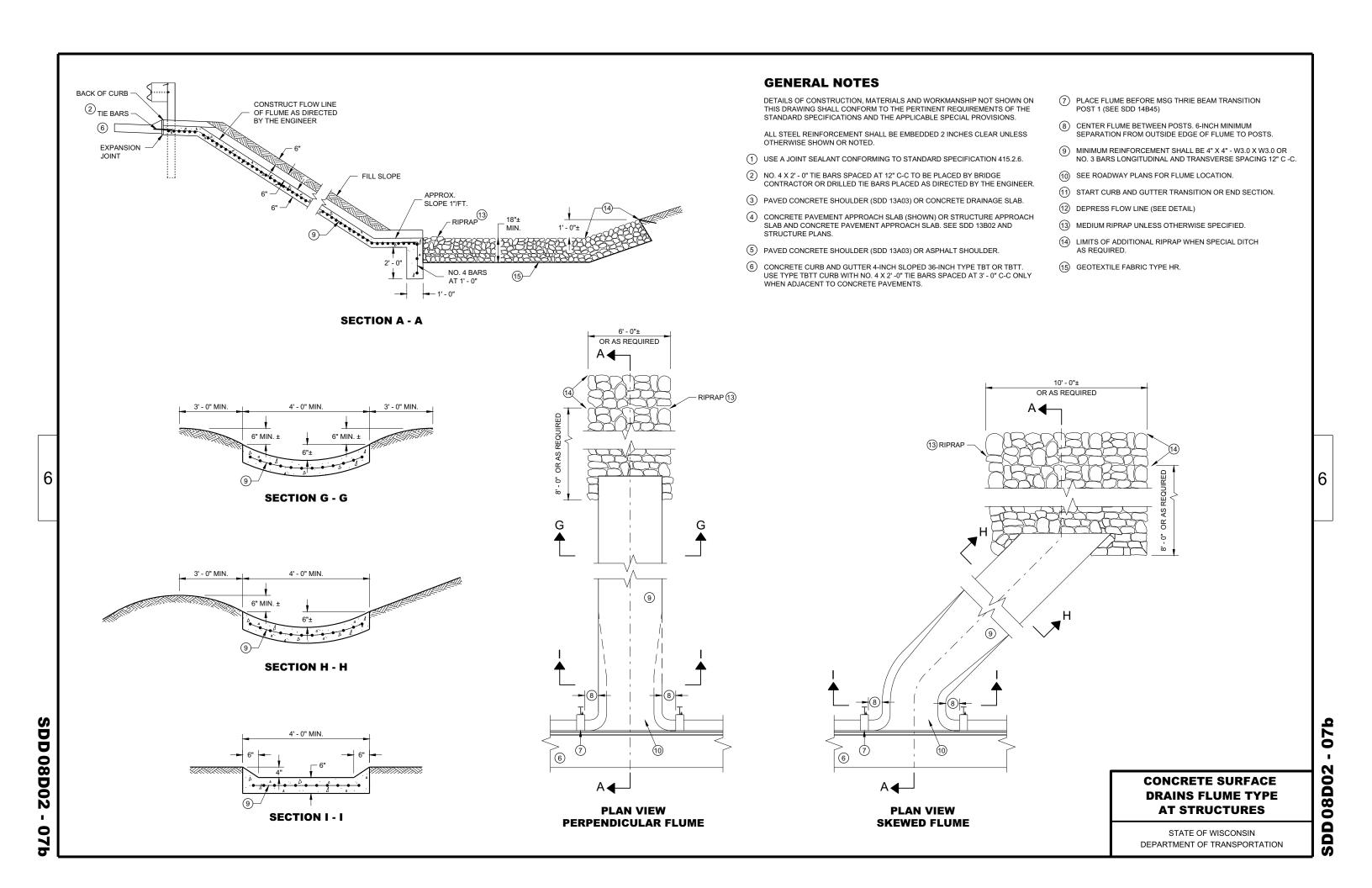
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

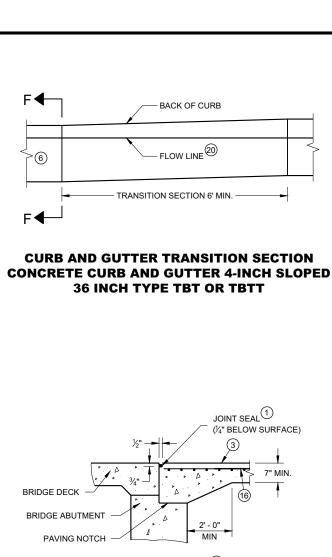
 APPROVED
 /S/ Rodnery Taylor

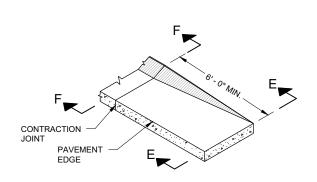
 February 2021
 /S/ Rodnery Taylor

 DATE
 ROADWAY STANDARDS DEVELOPMENT ENGINEER

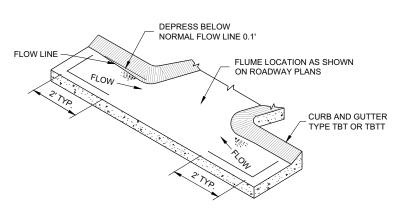




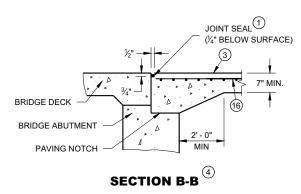




CURB AND GUTTER END SECTION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



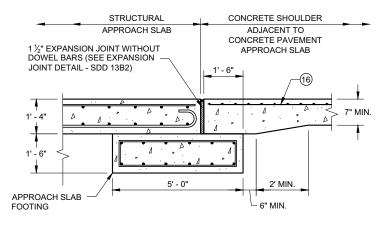
CURB AND GUTTER FLOW LINE DEPRESSION AT FLUMES CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



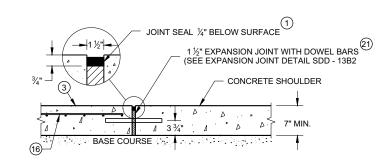
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SDD 08D02

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SECTION C - C JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



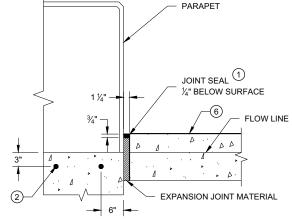
SECTION C - C JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS

GENERAL NOTES

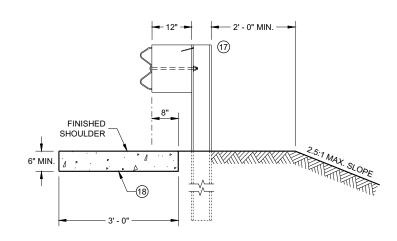
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS

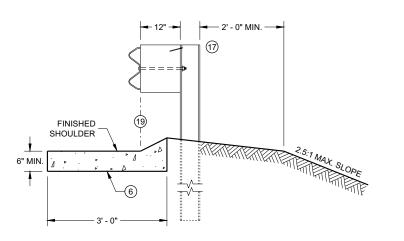
- (1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
- (2) NO. 4 X 2' 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
- (3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
- (4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
- (5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
- (6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
- 7 PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
- 8 CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
- 9 MINIMUM REINFORCEMENT SHALL BE 4" X 4" W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
- (10) SEE ROADWAY PLANS FOR FLUME LOCATION.
- (11) START CURB AND GUTTER TRANSITION OR END SECTION.
- (12) DEPRESS FLOW LINE (SEE DETAIL)
- (13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
- (14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.
- (15) GEOTEXTILE FABRIC TYPE HR.
- (16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.
- (7) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.
- (18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.
- (19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.
- 20 MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.
- (21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



SECTION D - D



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT
ENGINEER

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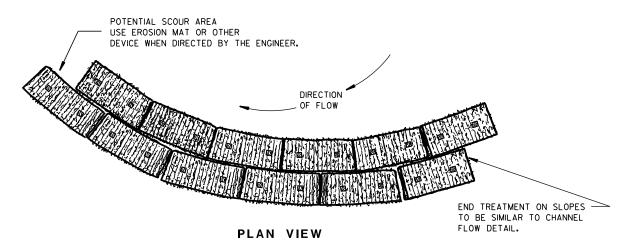
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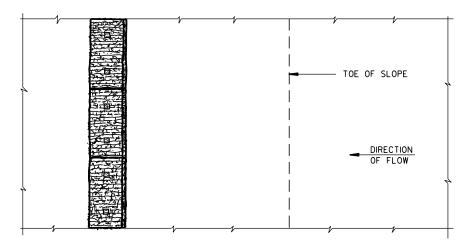
GENERAL NOTES

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.

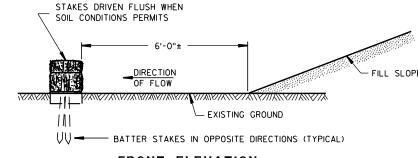
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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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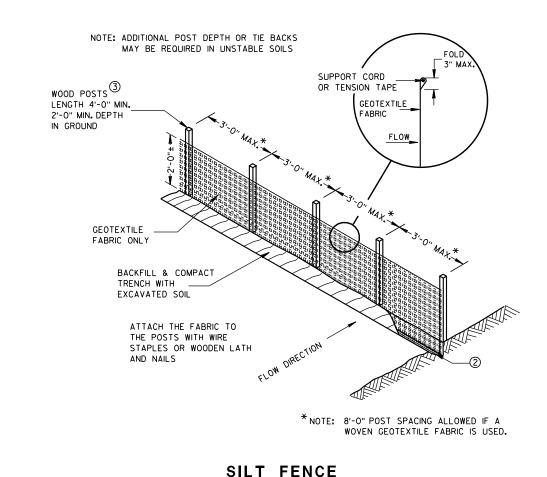
TYPICAL APPLICATION OF SILT FENCE

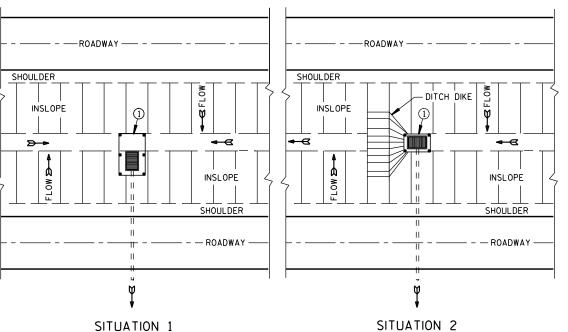
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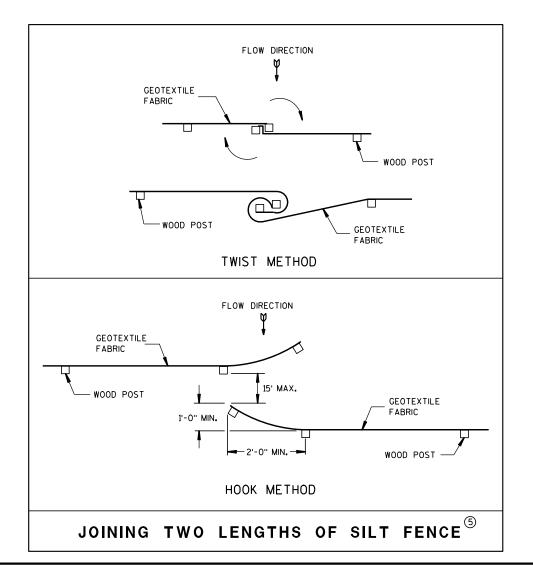
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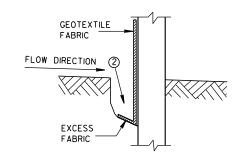
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



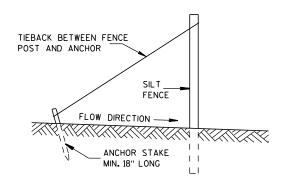
GENERAL NOTES

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)

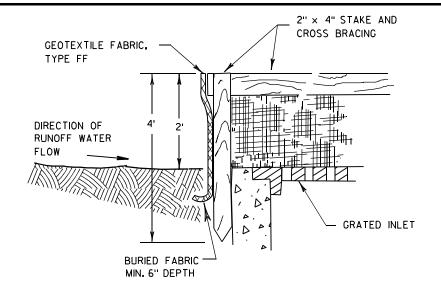
SILT FENCE

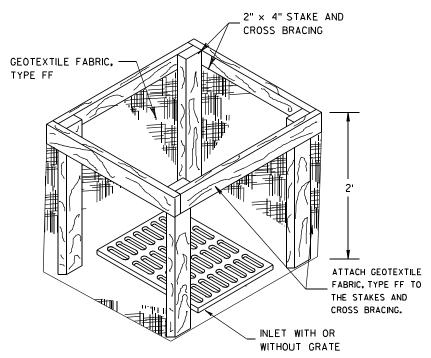
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-29-05
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

D.D. 8 E 9-6





INLET PROTECTION, TYPE A

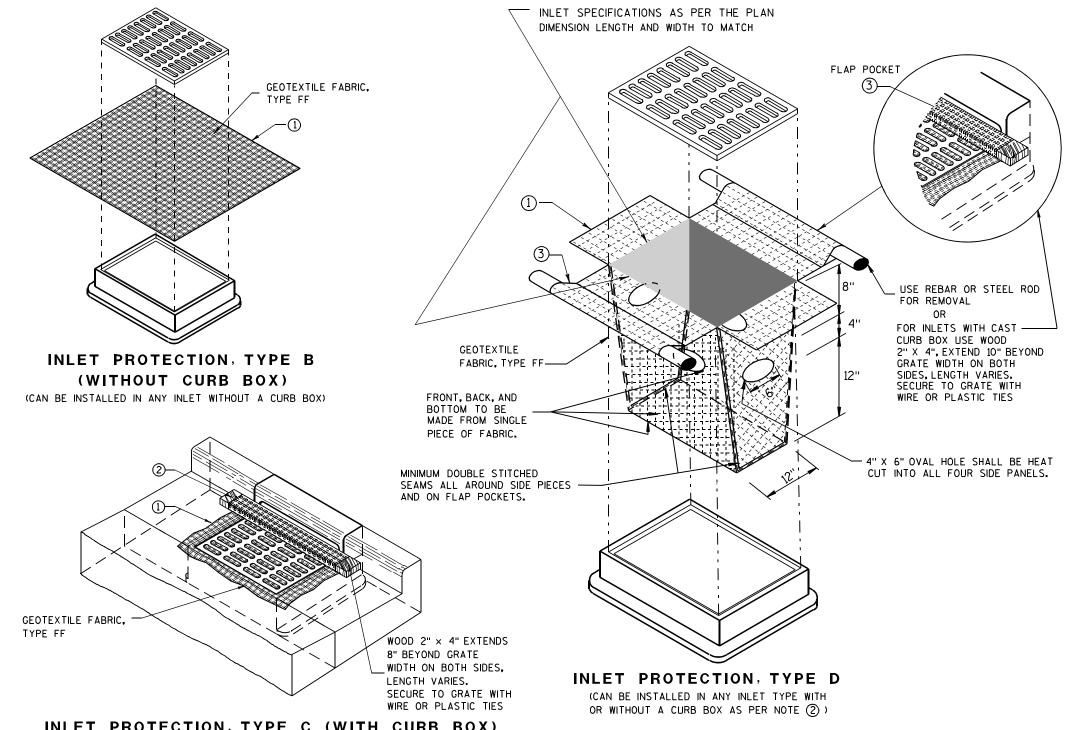
GENERAL NOTES

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

6

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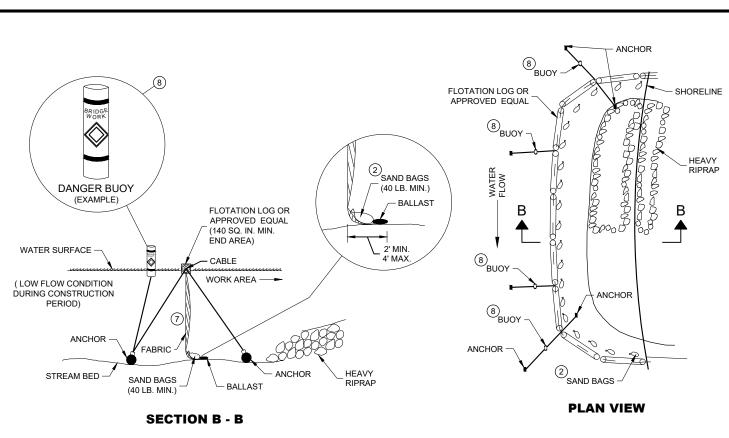
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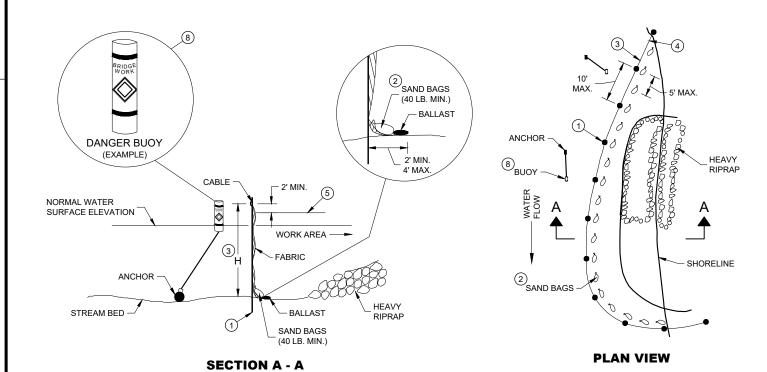
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APF	RO	VED	

/S/ Beth Cannestra 10/16/02 CHIEF ROADWAY DEVELOPMENT ENGINEER



TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

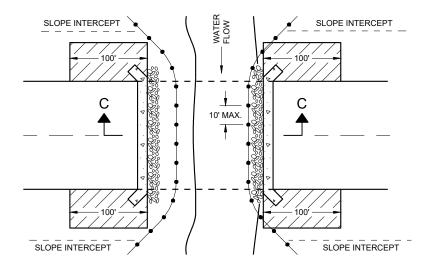
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

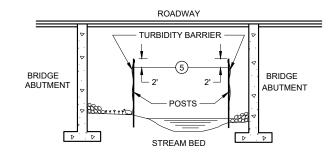
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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
- (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
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



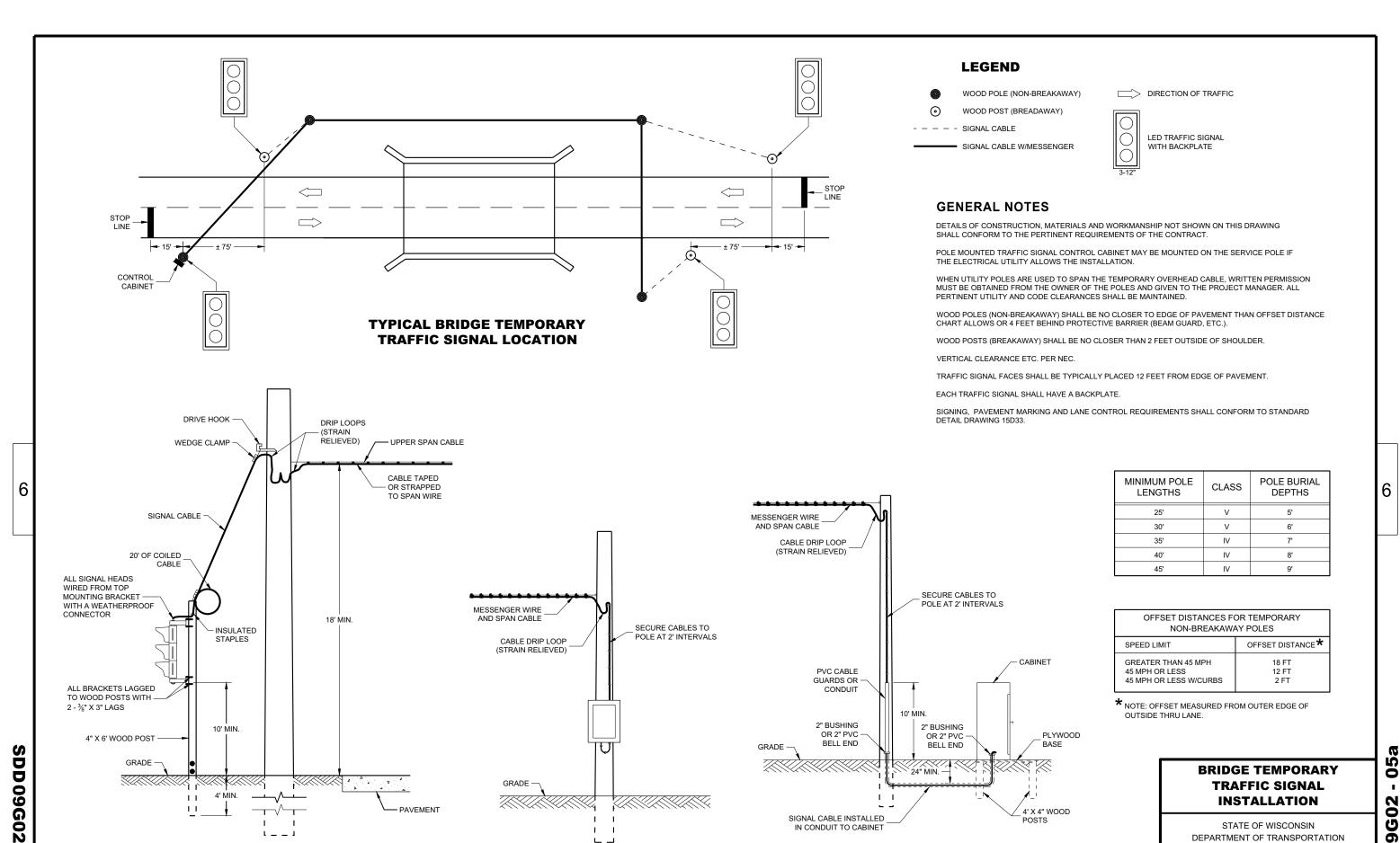
SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ∞

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



POLE MOUNT

CABINET INSTALLATION

GRADE

- PAVEMENT

4' MIN.

TYPICAL DROP TO

TRAFFIC SIGNAL FACE

BRIDGE TEMPORARY TRAFFIC SIGNAL **INSTALLATION**

0

0

60

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED March 2018

DATE

4' X 4" WOOD

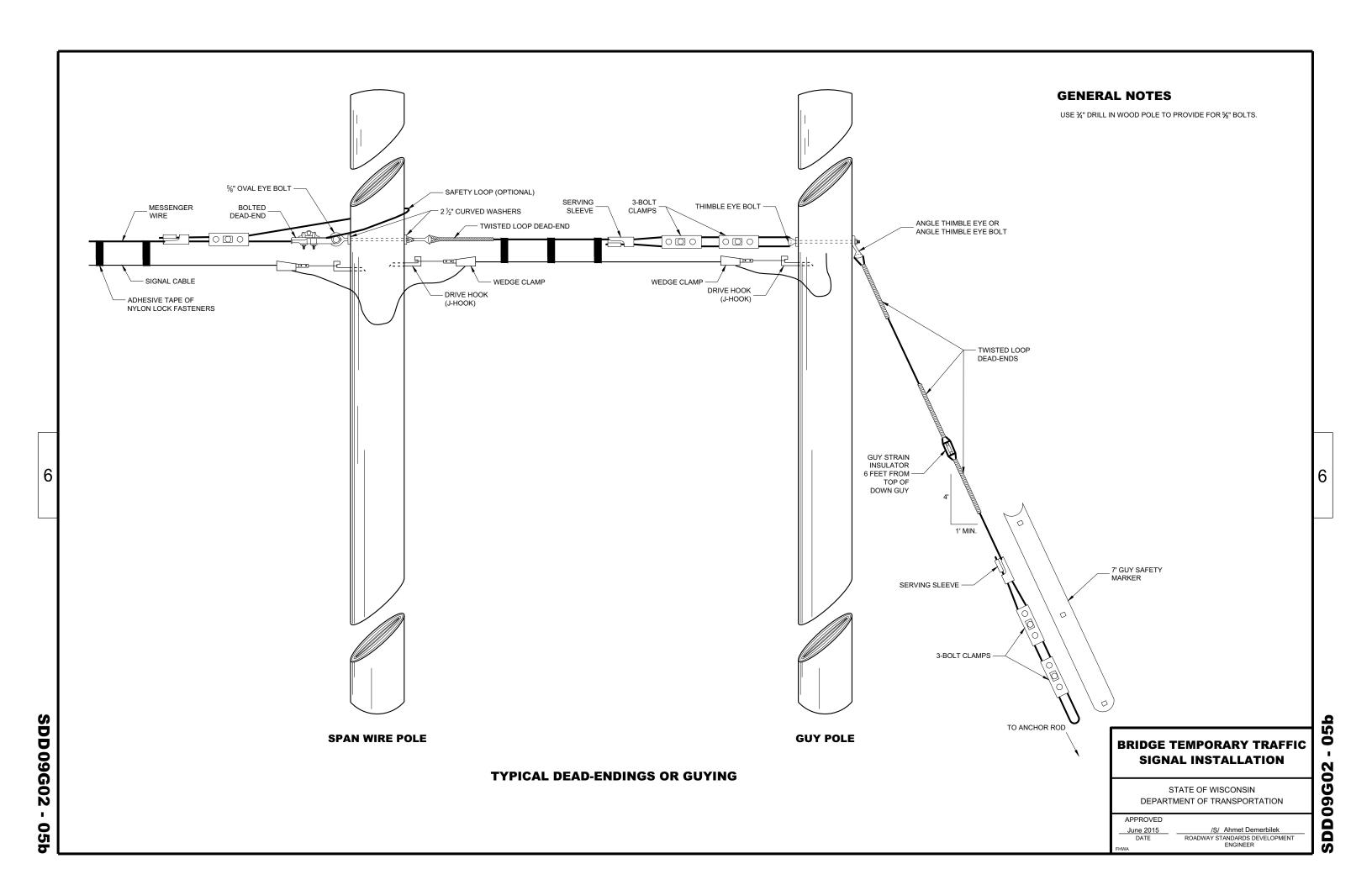
24" MIN.

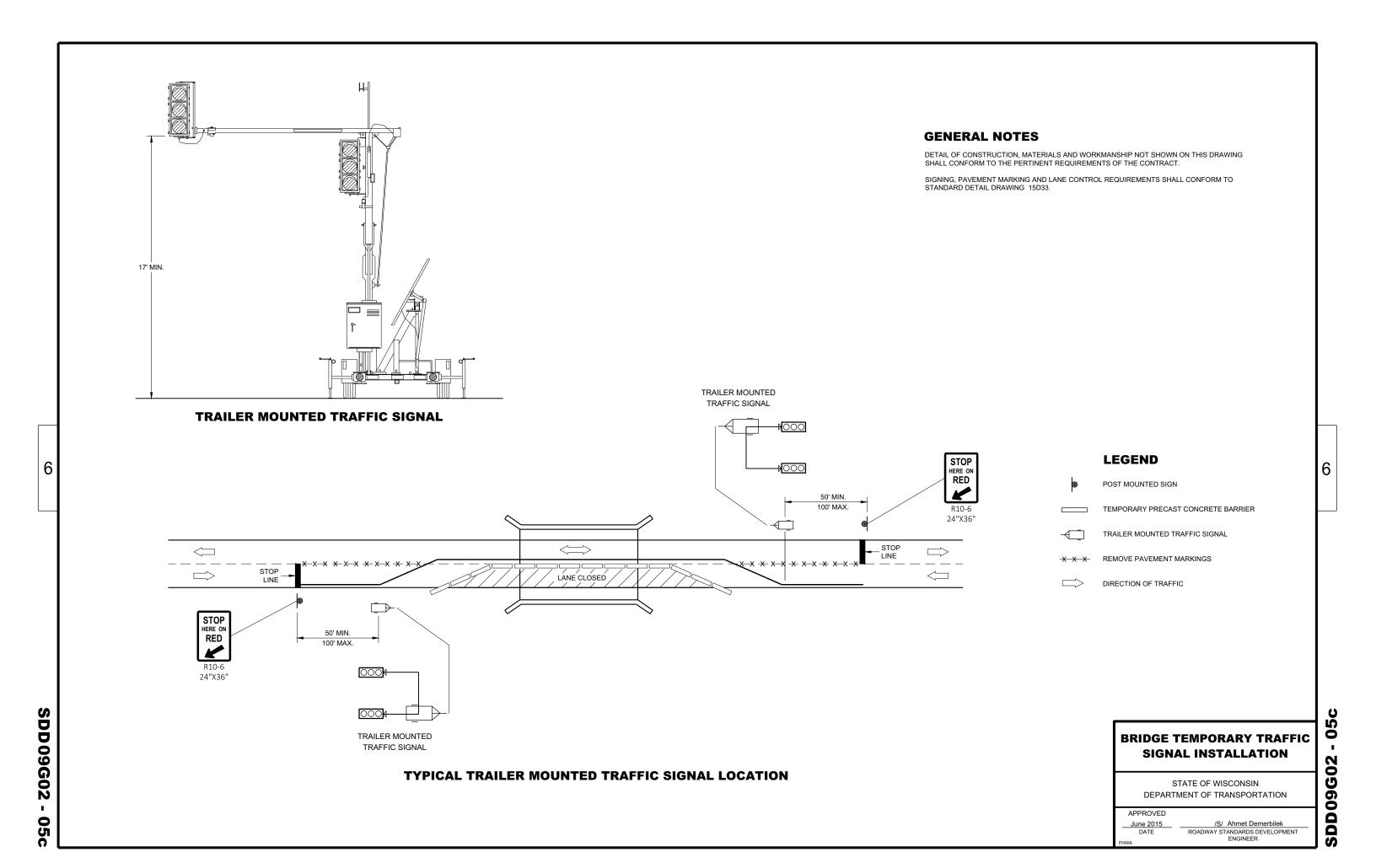
GROUND MOUNT

CABINET INSTALLATION

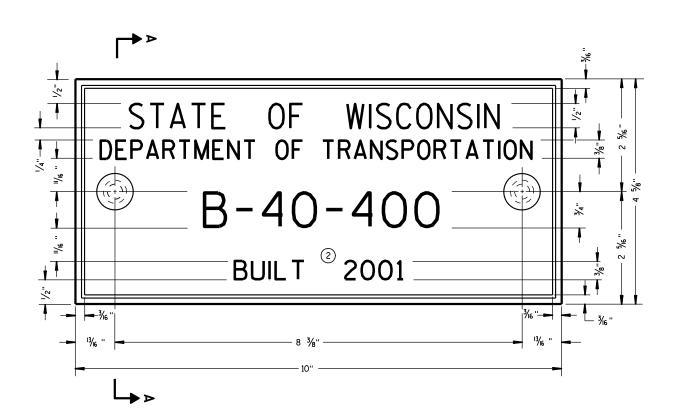
SIGNAL CABLE INSTALLED IN CONDUIT TO CABINET

ROADWAY STANDARDS DEVELOPMENT ENGINEER



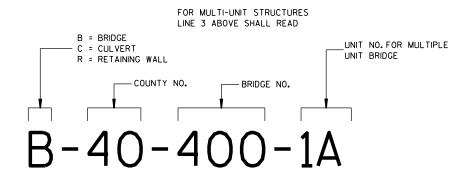






TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



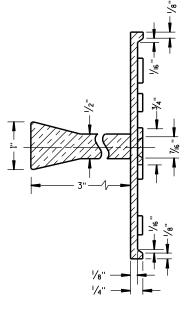
NUMBERING DESIGNATION **MULTI-UNIT STRUCTURES**

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.

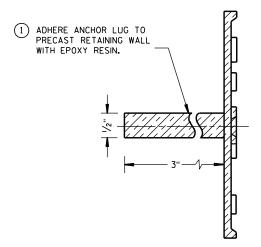
- (1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE



SPREAD TOP OF

SECTION A-A

ALTERNATE LUG



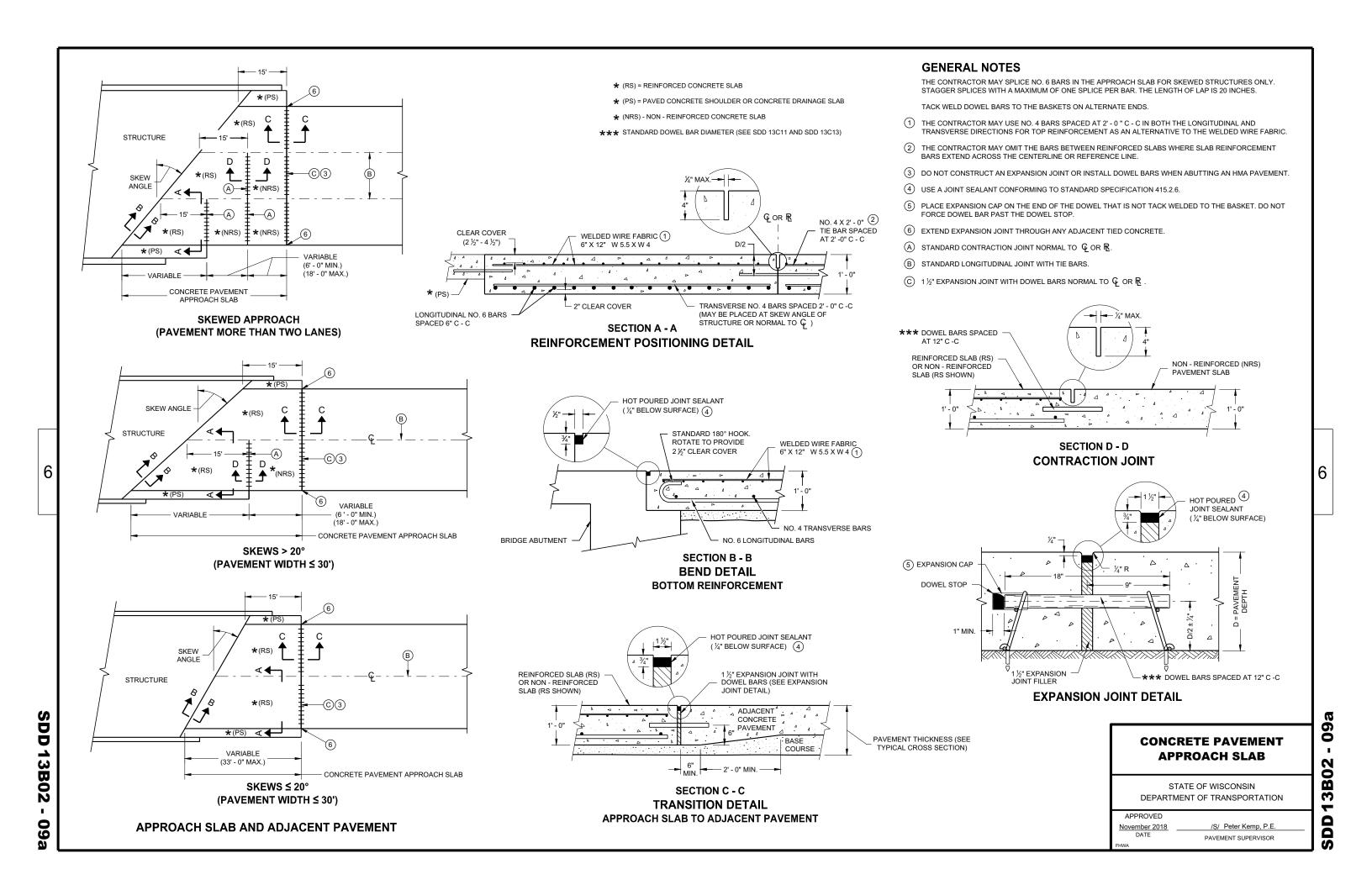
ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

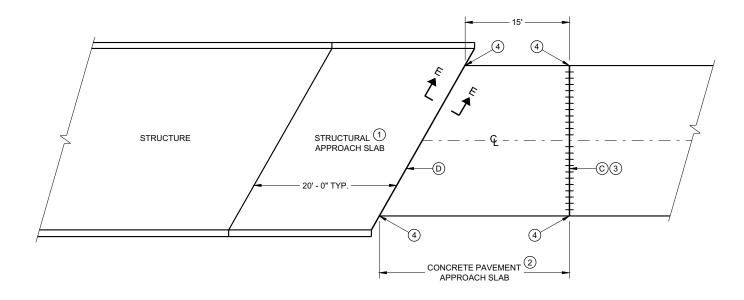
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 3-10

APPROVED

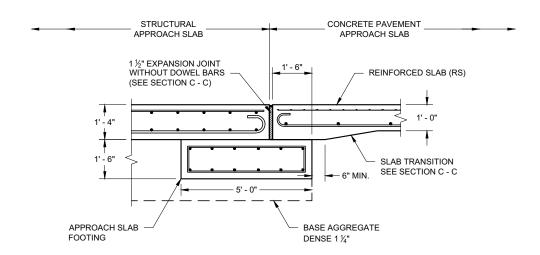
/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER



SDD 13B02



BRIDGE APPROACHES



SECTION E - E
FOOTING DETAIL
STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

- (1) SEE BRIDGE PLAN.
- (2) CONFORM TO SDD 13B02 SHEET A FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS
- \bigcirc DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
- 4 EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.
- © 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO GOR R.
- D 1 ½" EXPANSION JOINT (NO DOWELS)

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB

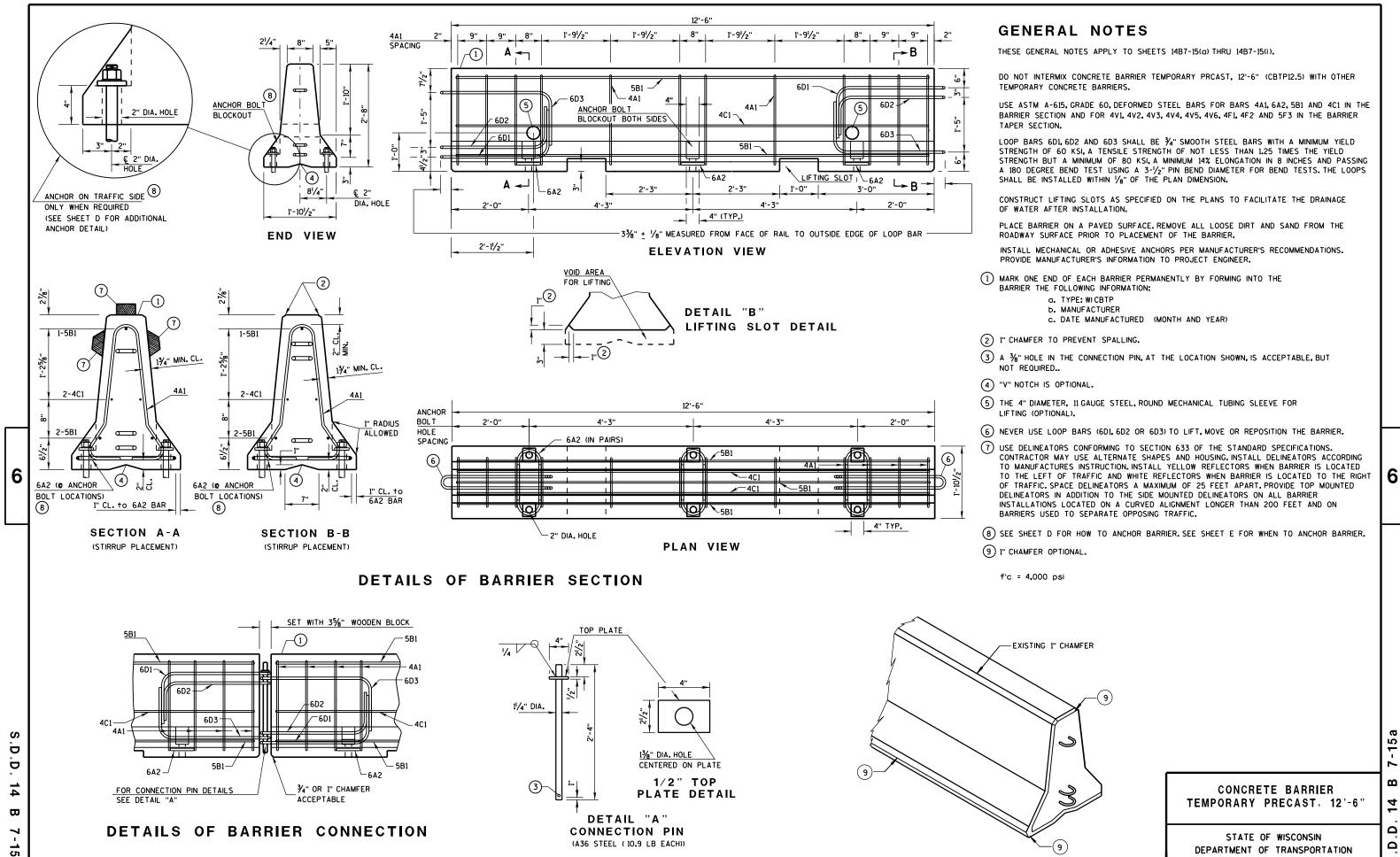
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

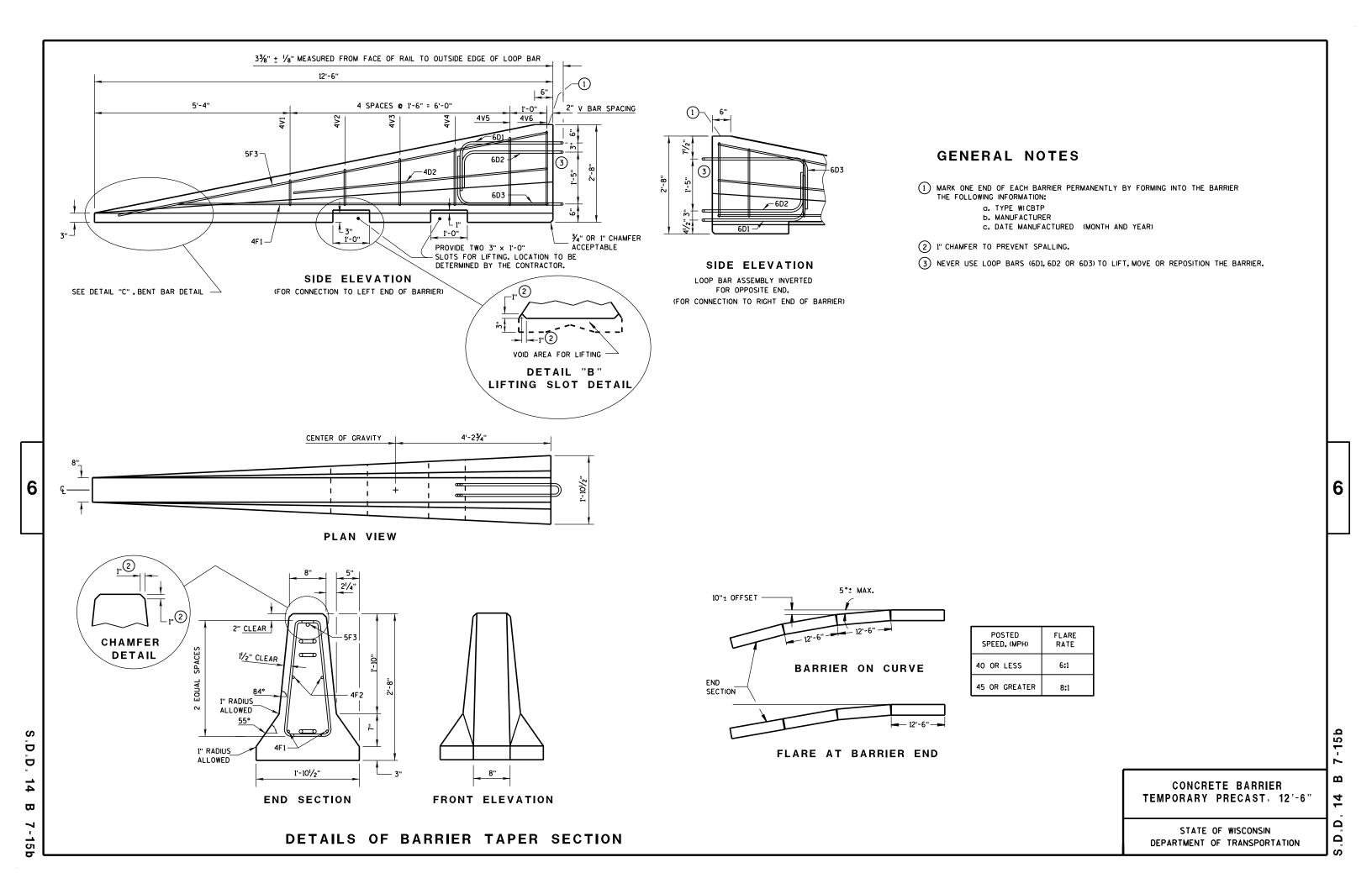
November 2018 DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR

SDD 13B02



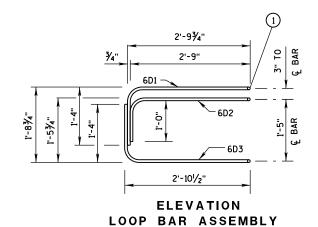
DEPARTMENT OF TRANSPORTATION

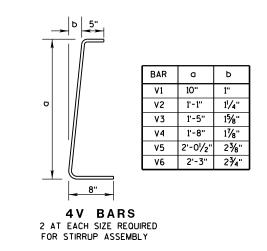


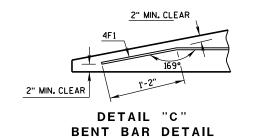
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANKEN TALEN SECTION				
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.	
4V1	4	2	1'-11"	
4V2	4	2	2'-2"	
4٧3	4	2	2'-6"	
4V4	4	2	2'-9"	
4V5	4	2	3'-2"	
4V6	4	2	3'-4"	
4F1	4	2	12'-0"	
4F2	4	2	7'-6"	
5F3	5	1	11'-9"	
LOOP ASSEMBLY				
6D1	6	1	8'-5"	
6D2	6	1	7'-7"	
6D3	6	1	8'-6"	
	<u> </u>	<u> </u>	•	





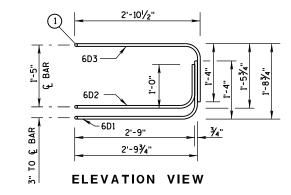




BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

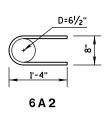
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.		
4A1	4	12	6'-0"		
6A2	6	6	2'-11"		
5B1	5	3	12'-2"		
4C1	4	2	12'-2"		
LOOP ASSEMBLY					
6D1	6	2	8'-5"		
6D2	6	2	7'-7"		
6D3	6	2	8'-6"		

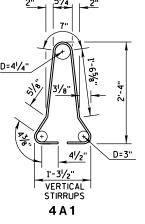




PLAN VIEW LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)





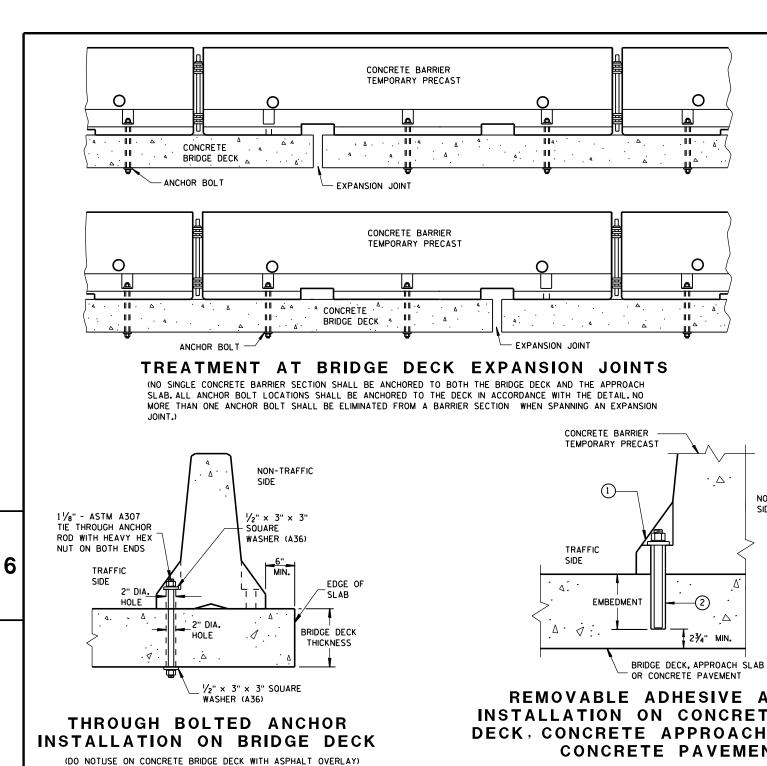
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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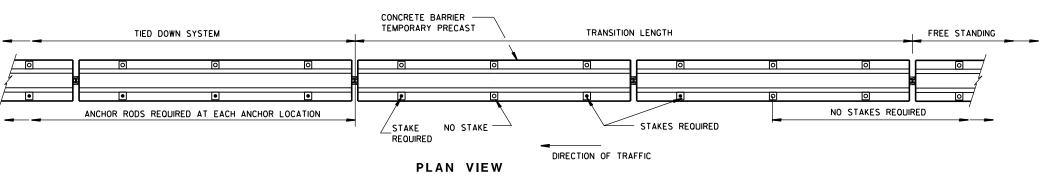
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REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR **CONCRETE PAVEMENT**

NON-TRAFFIC

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

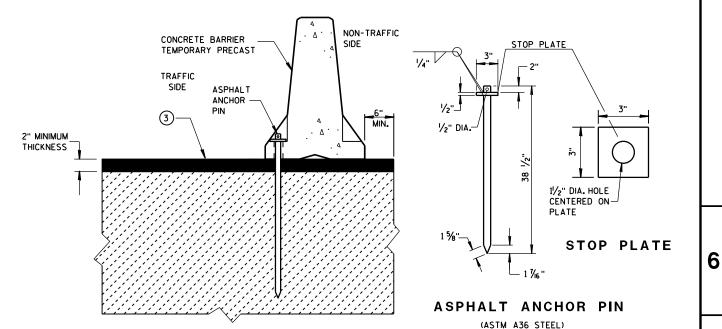
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

GENERAL NOTES

SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

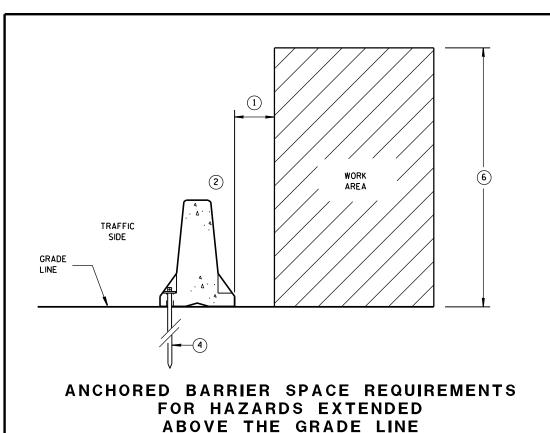
- 1 1/8" DIAMENTER A307 THREADED ROD, 1/2" X 3" X 3" SOUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- 2 ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 51/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.
- (3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.

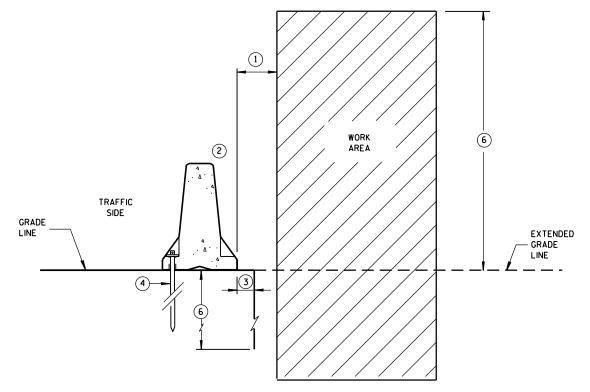


STAKE DOWN INSTALLATION FOR **ASPHALTIC SURFACE**

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION -15d $\mathbf{\omega}$ Ω

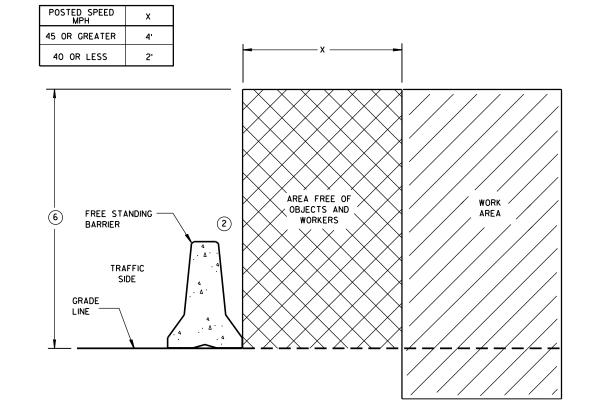


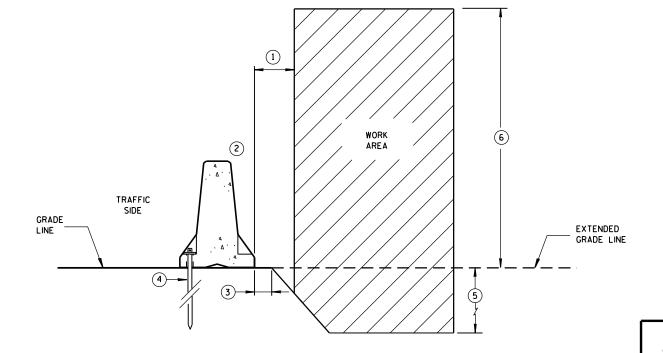


GENERAL NOTES

- 1) WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR
- 2 OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
- (3) SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
- 4 SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
- (5) DEPTH OF 3 FEET OR MORE.
- (6) Y = 6'-6".

ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS





FREE STANDING BARRIER SPACE REQUIREMENTS

ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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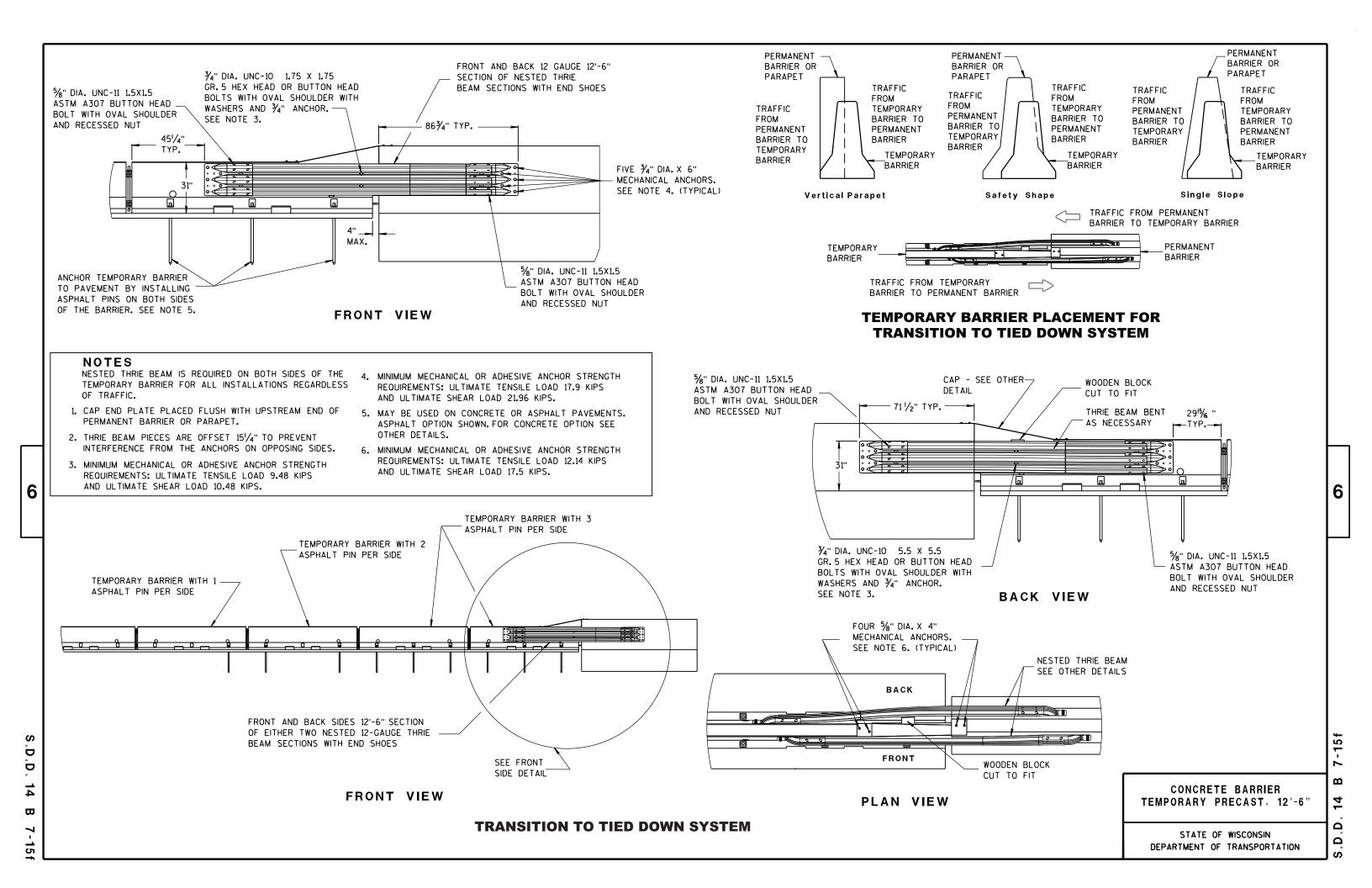
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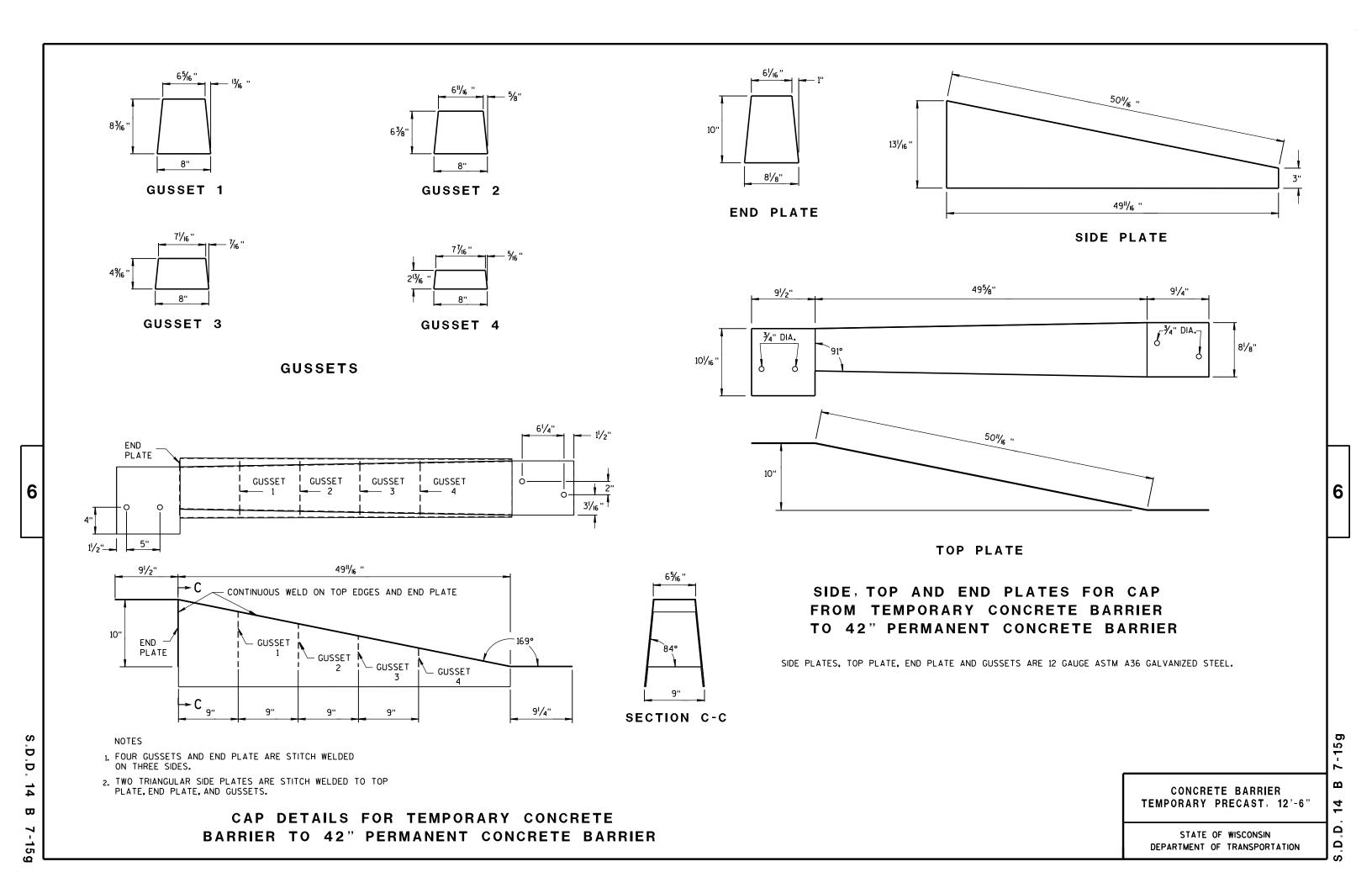
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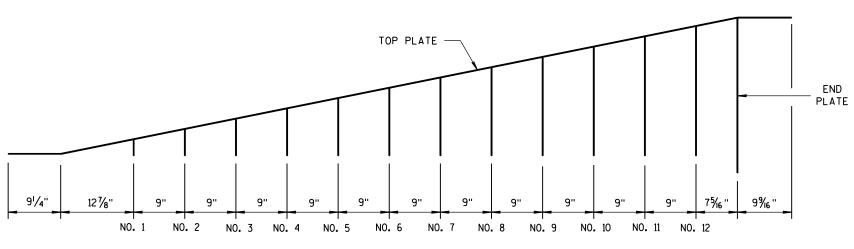
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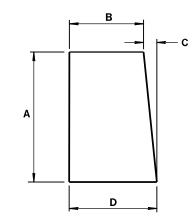






GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	Α	В	С	D
1	21/8"	73/4"	1/4"	8
2	4"/16 "	7% "	1/2"	8
3	6 ^l /2"	73/8"	11/16 "	81/16"
4	8%"	73//6"	7⁄8"	81/16 "
5	101/8"	7''	1 1/16 "	81/16"
6	11 ¹⁵ / ₁₆ ''	6 ¹³ / ₁₆ "	1 1/4"	81/16"
7	13¾"	65%"	1 7/6"	81/16"
8	15% "	6¾6"	1 % "	81/16"
9	173/8"	61/4"	1 ¹³ / ₁₆ ''	8½ ₆ "
10	193/6"	6½ ₆ "	1 15/16 "	81/16"
11	21"	57/8"	23/6"	81/16"
12	22 ¹³ / ₁₆ "	5 ¹¹ / ₁₆ "	25/6"	8½ ₆ "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

TEMPORARY PRECAST, 12'-6" BARRIER TO 56" PERMANENT CONCRETE BARRIER

DEPARTMENT OF TRANSPORTATION

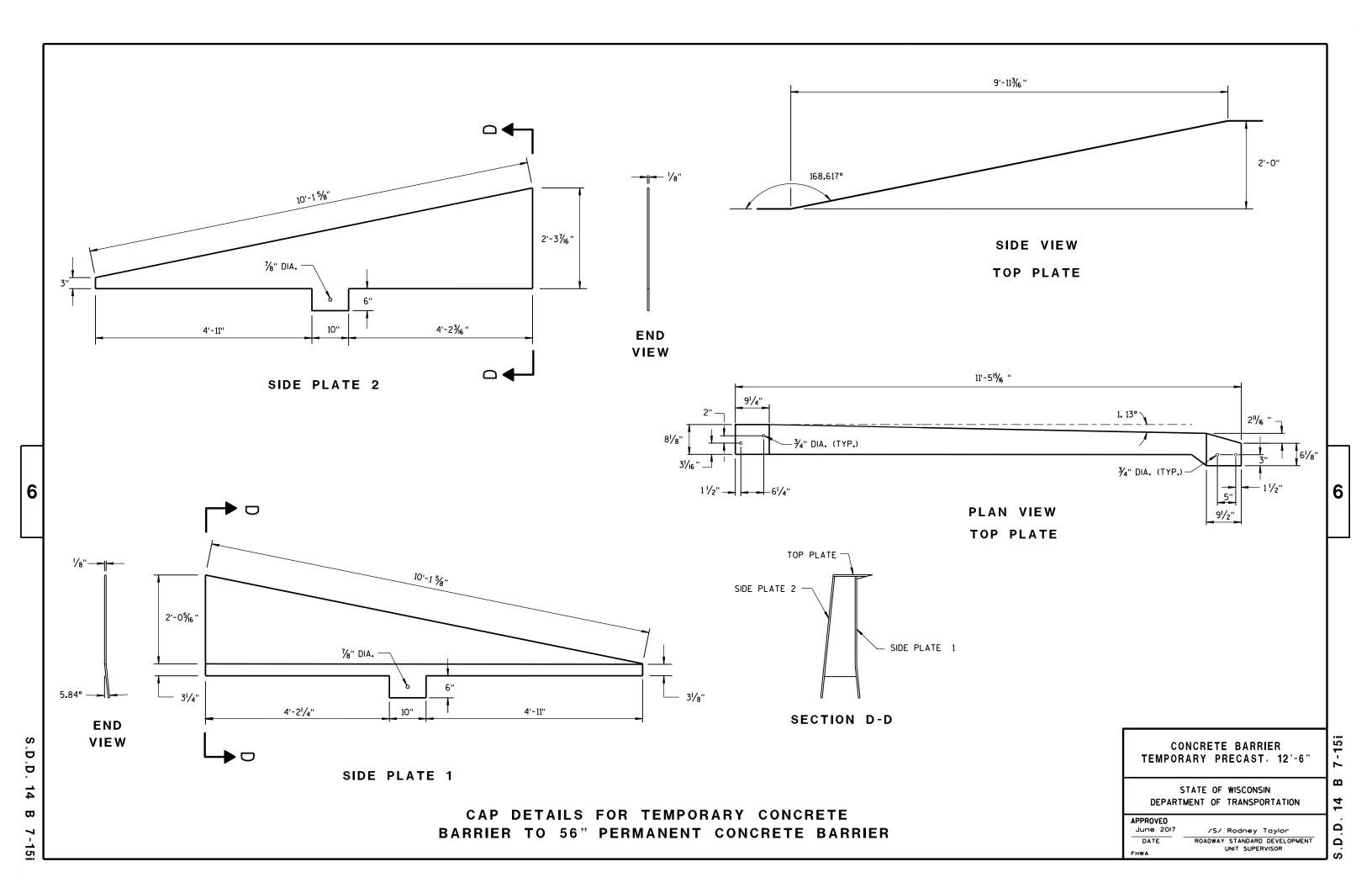
CONCRETE BARRIER

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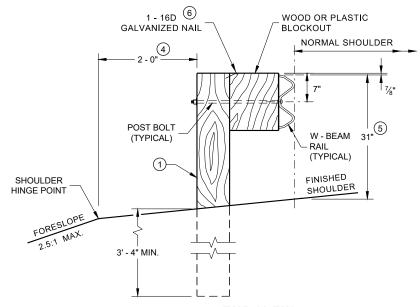
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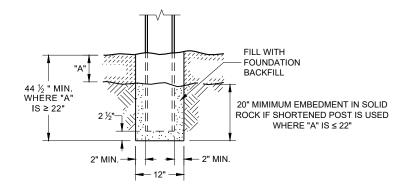
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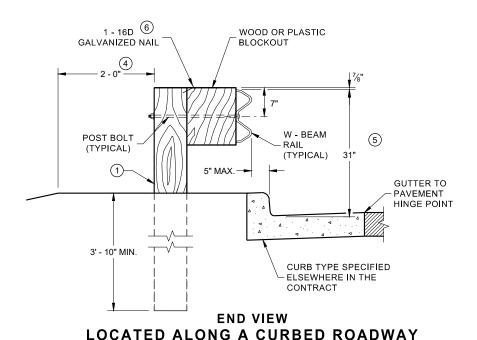
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES 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).
- (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".

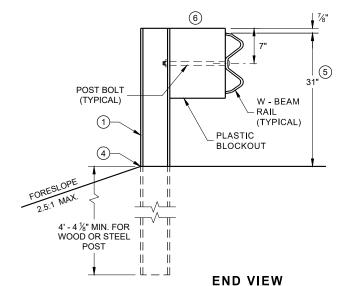


END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



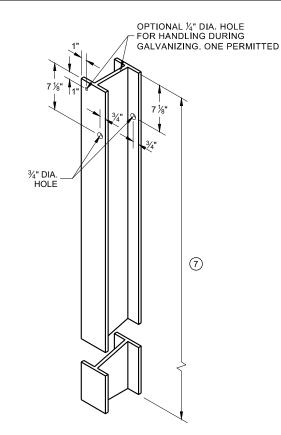
SETTING STEEL OR WOOD POST IN ROCK



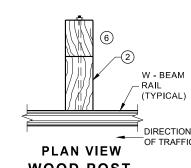


MGS LONGER POST AT HALFPOST

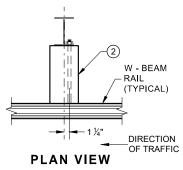
SPACING W BEAM (K)



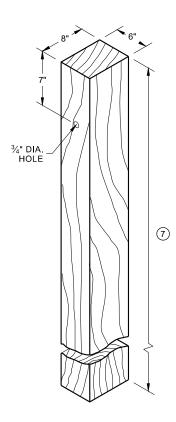
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) ①



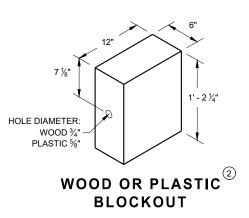
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST $_{\textcircled{1}}$ (6" X 8") NOMINAL



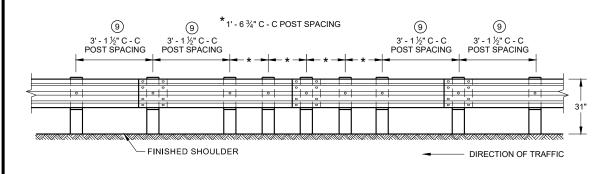
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

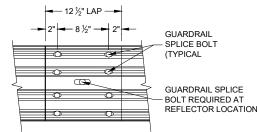
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FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



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



FRONT VIEW MID-SPAN BEAM SPLICE

¾" X 2 ½" POST BOLT

REFLECTOR LOCATIONS

C POST HOLE SLOT

POST BOLT

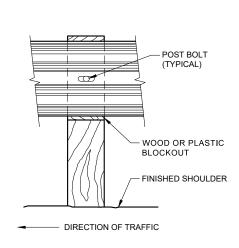
(TYPICAL)

- WOOD OR PLASTIC

BLOCKOUT

— DIRECTION OF TRAFFIC

FRONT VIEW AT STEEL POST



GENERAL NOTES

OF QUARTER POST SPACING.

RECESSED (DR) HEAVY HEX NUT.

OF THE ENERGY ABSORBING TERMINAL.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

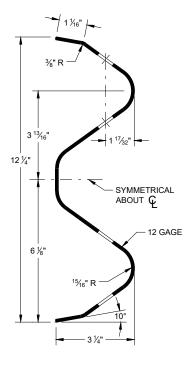
POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT

GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE

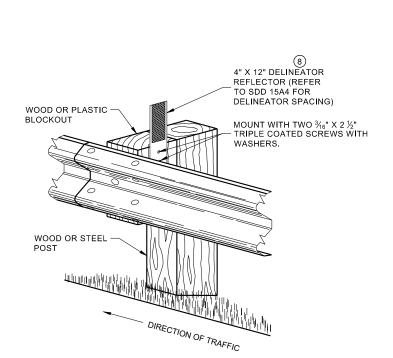
REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %"

DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

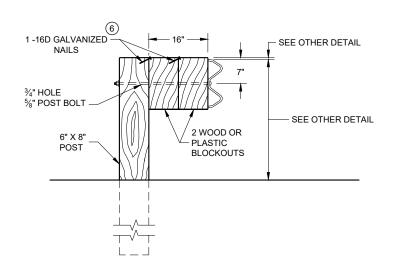
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

0

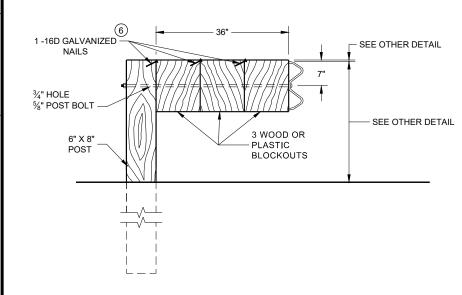
07b SDD

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.



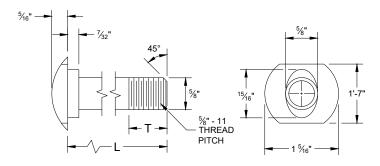
DETAIL FOR 36" BLOCKOUT DEPTH

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.

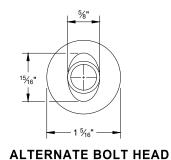
NOTE:

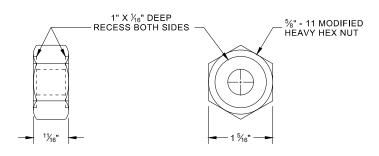
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

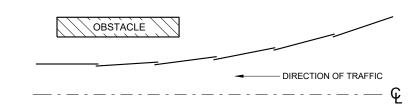
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



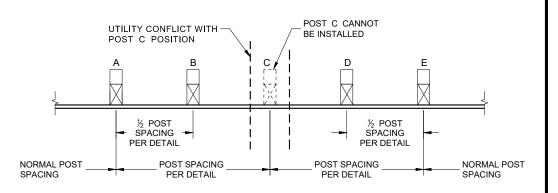


POST BOLT, SPLICE BOLT **AND RECESS NUT**

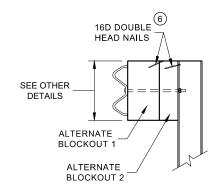
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

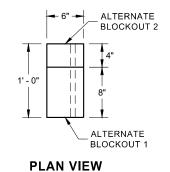


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

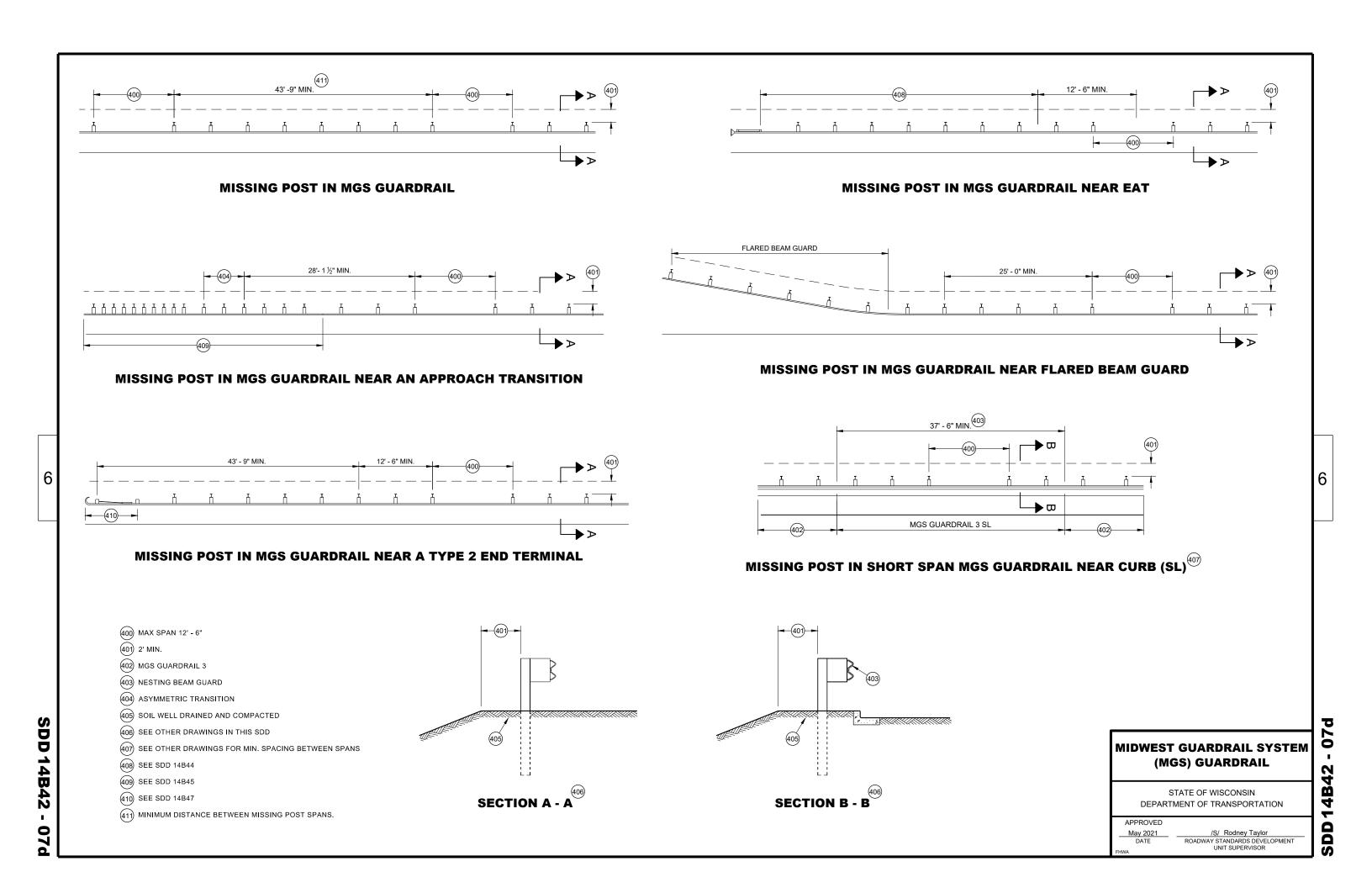
ALTERNATE WOOD BLOCKOUT DETAIL

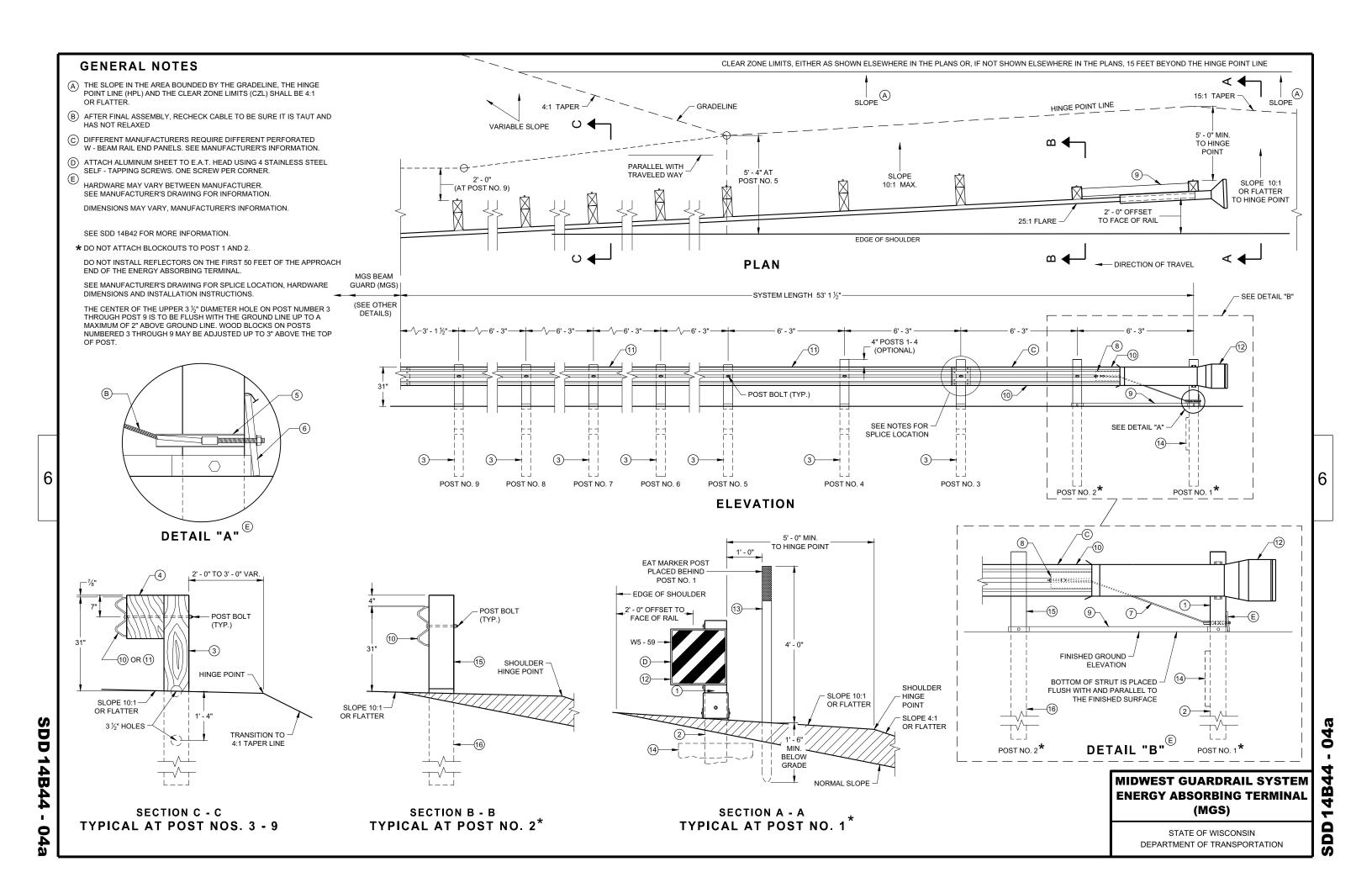
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

07

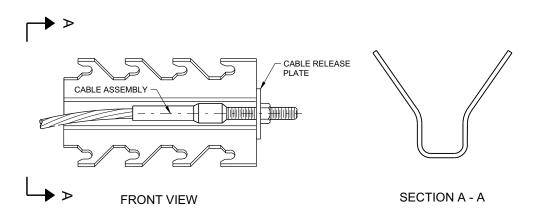
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

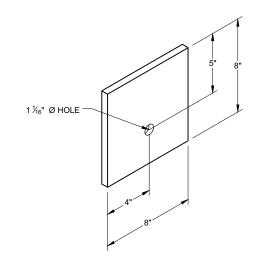




GENERIC GROUND STRUT



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



BEARING PLATE

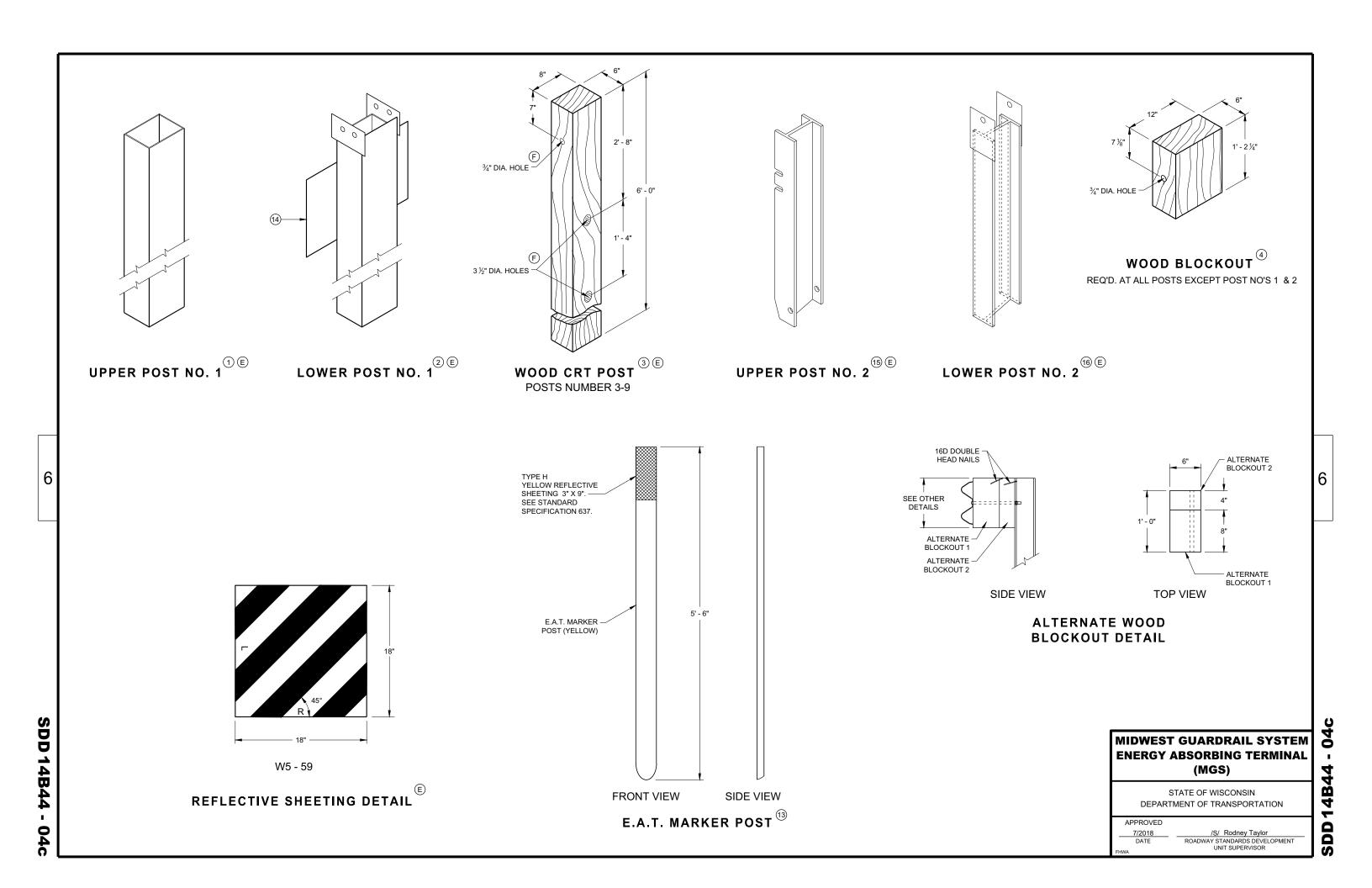
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

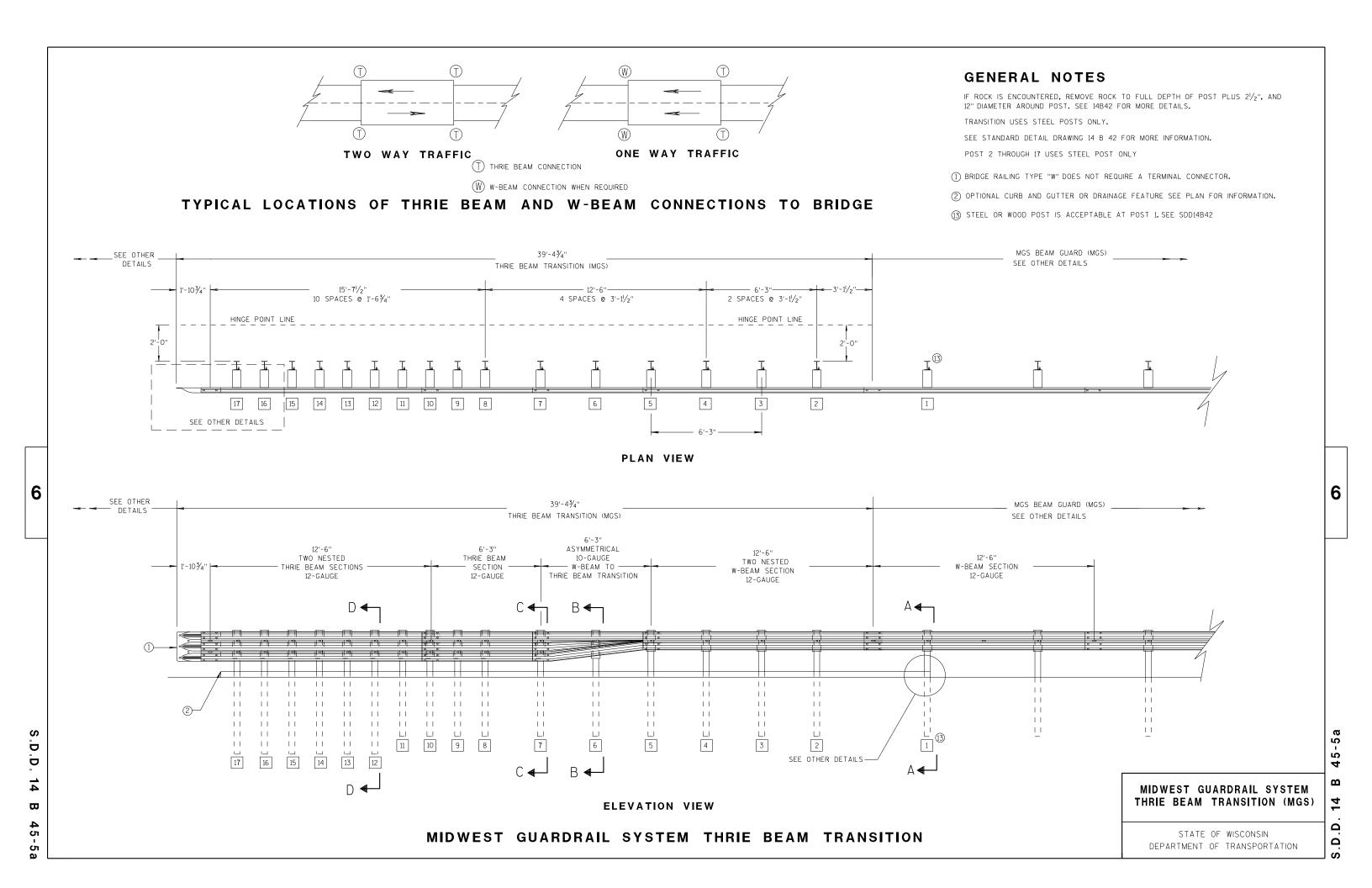
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

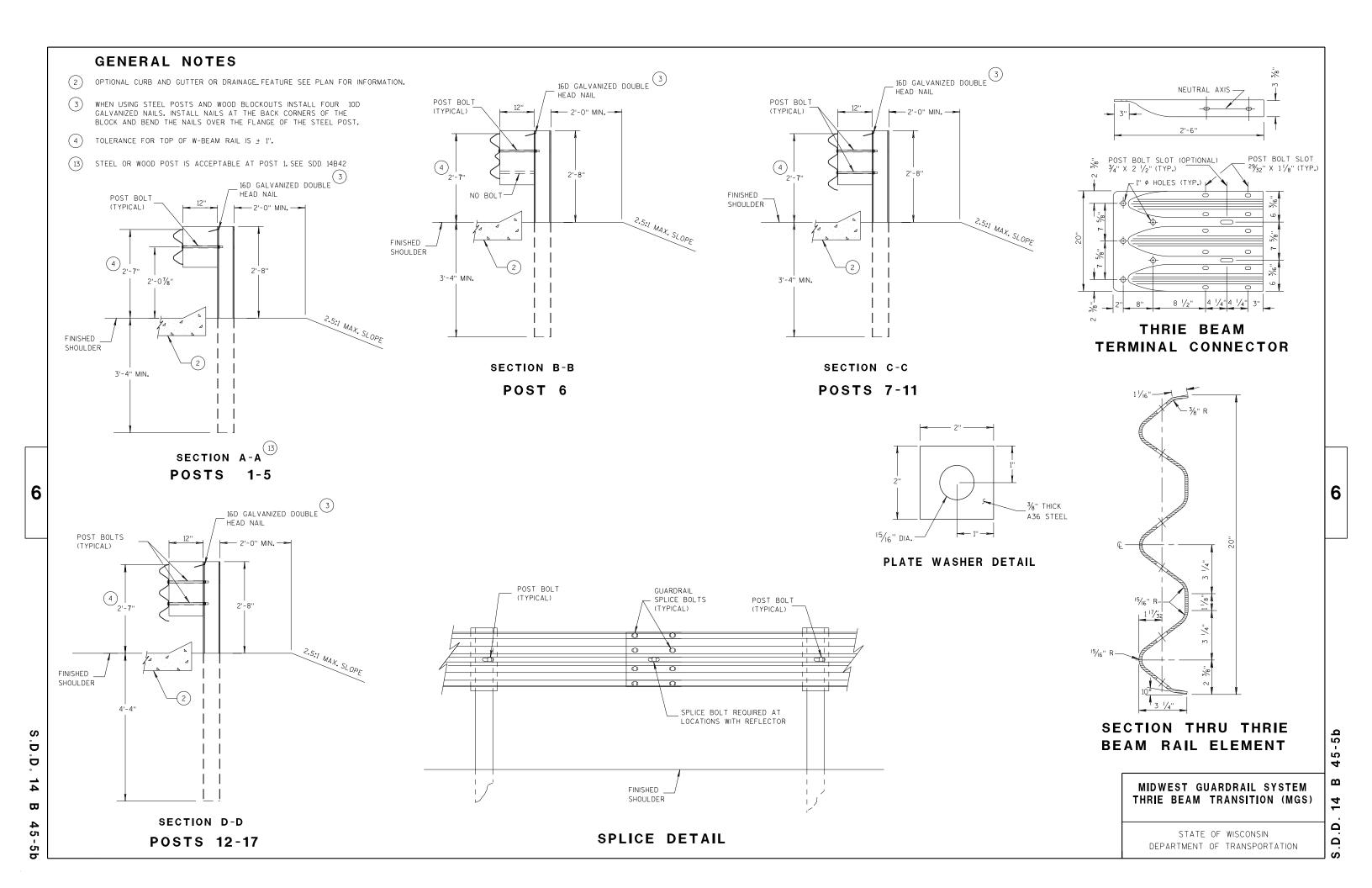
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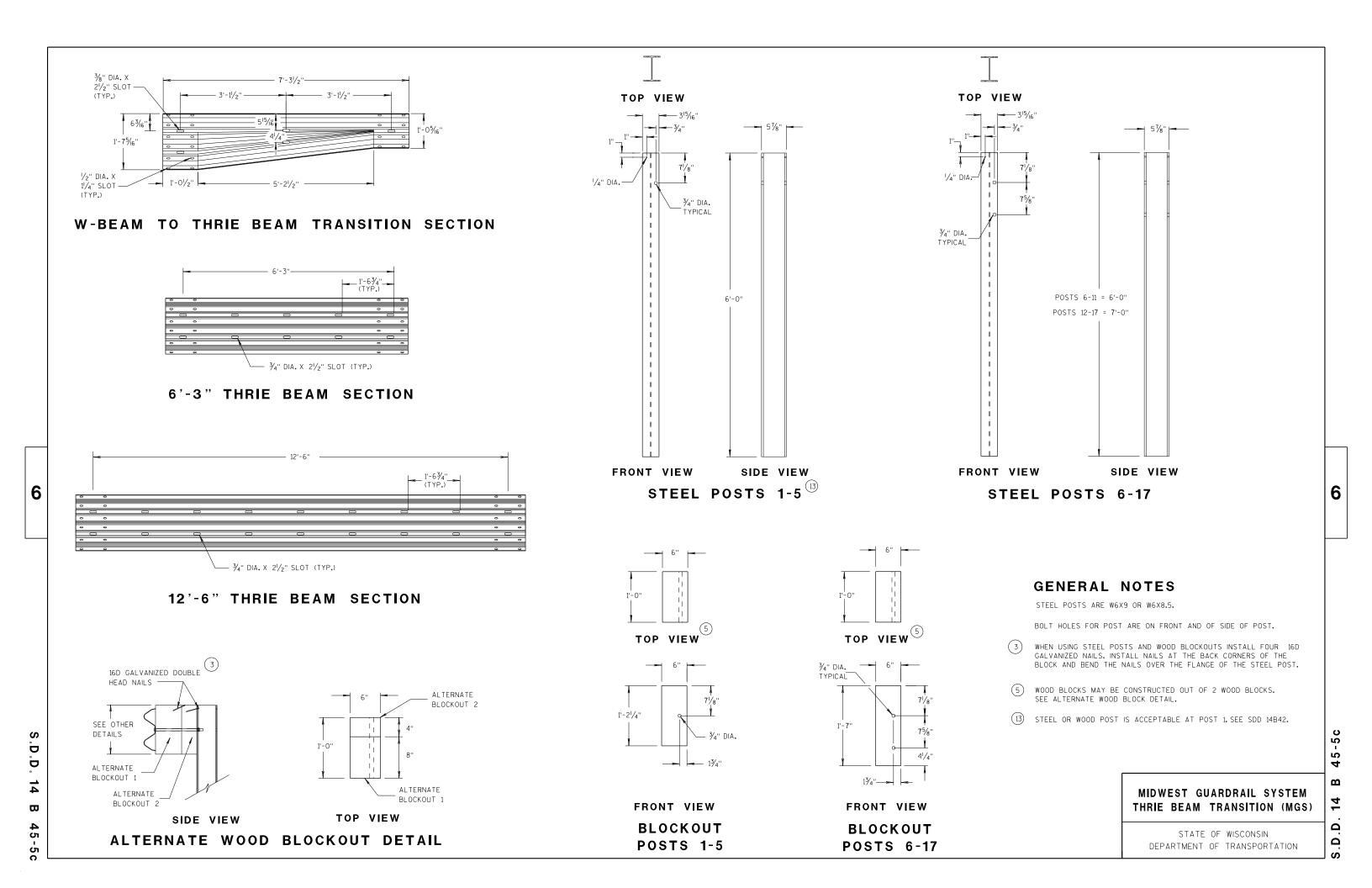
SDD 14B44 - 0

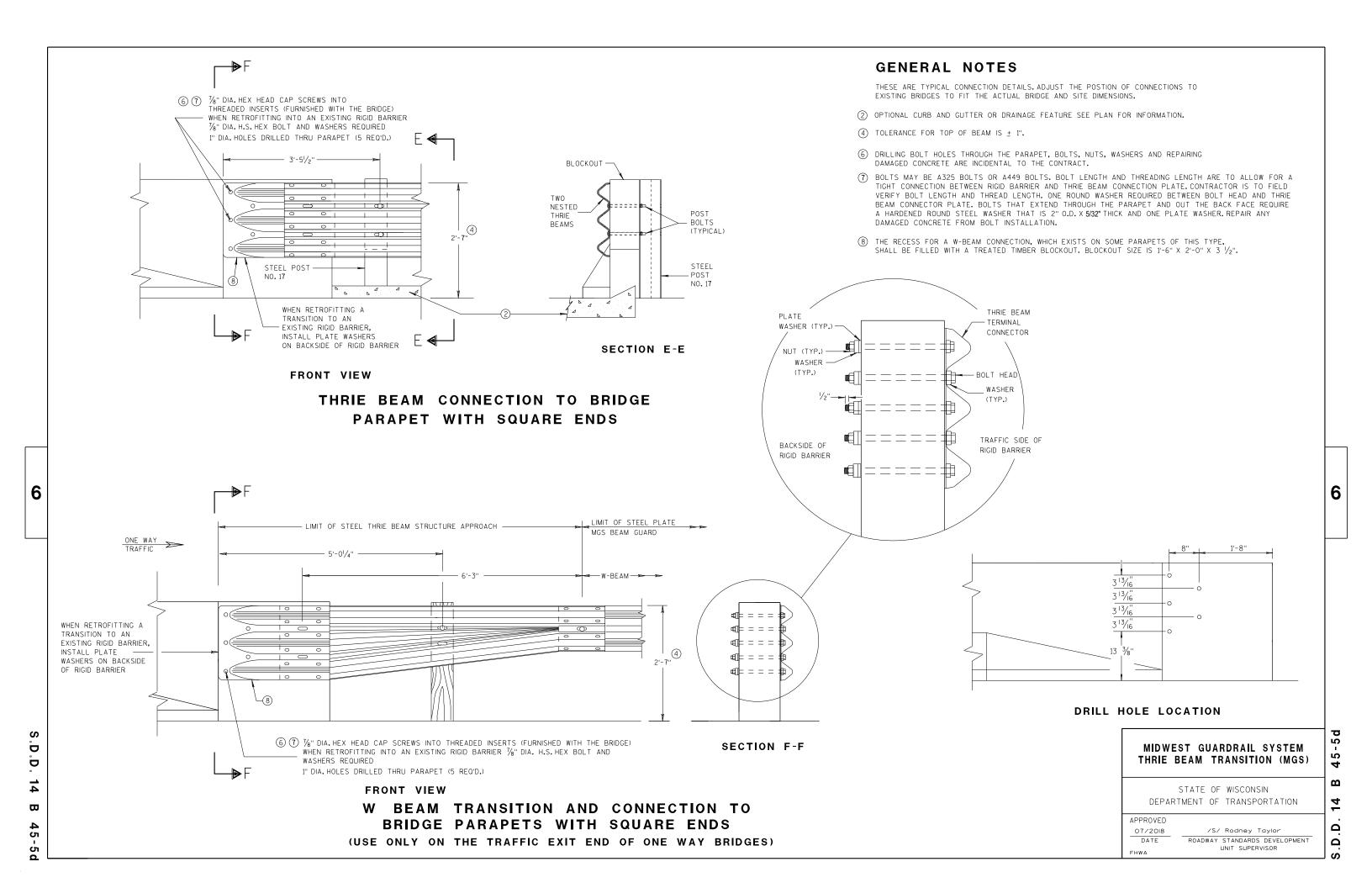
SDD 14B44 - 04k

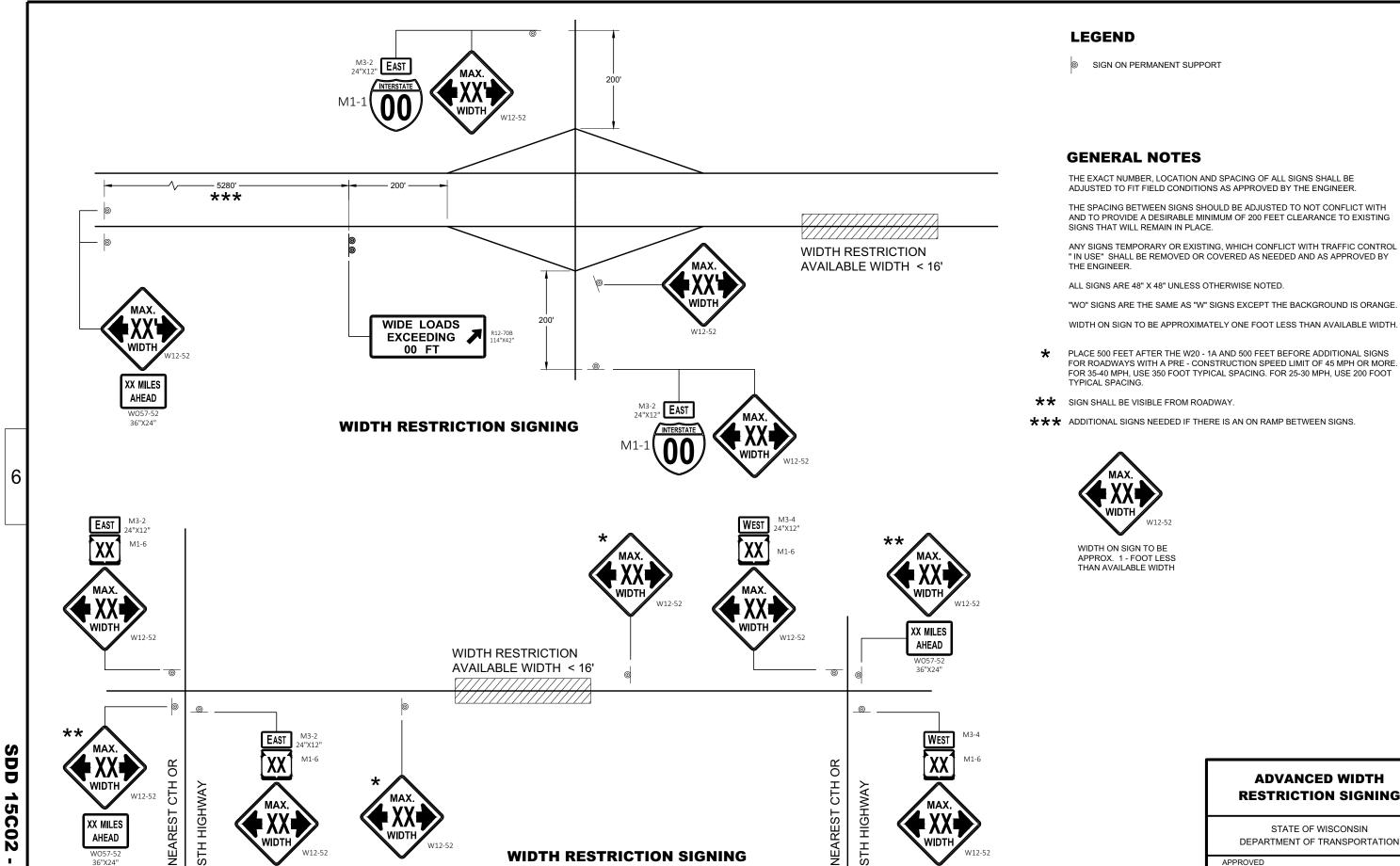












2 LANE HIGHWAY

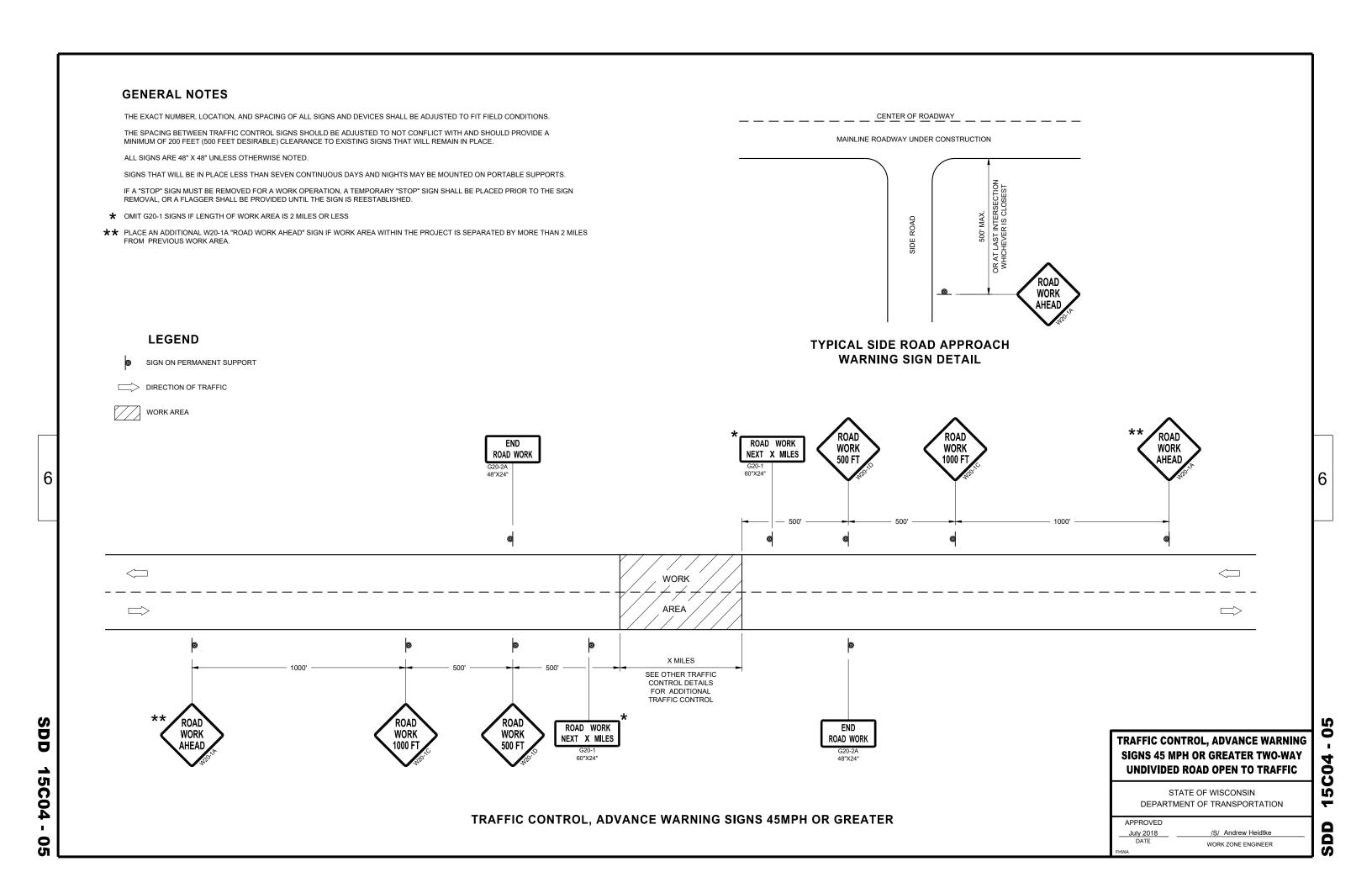
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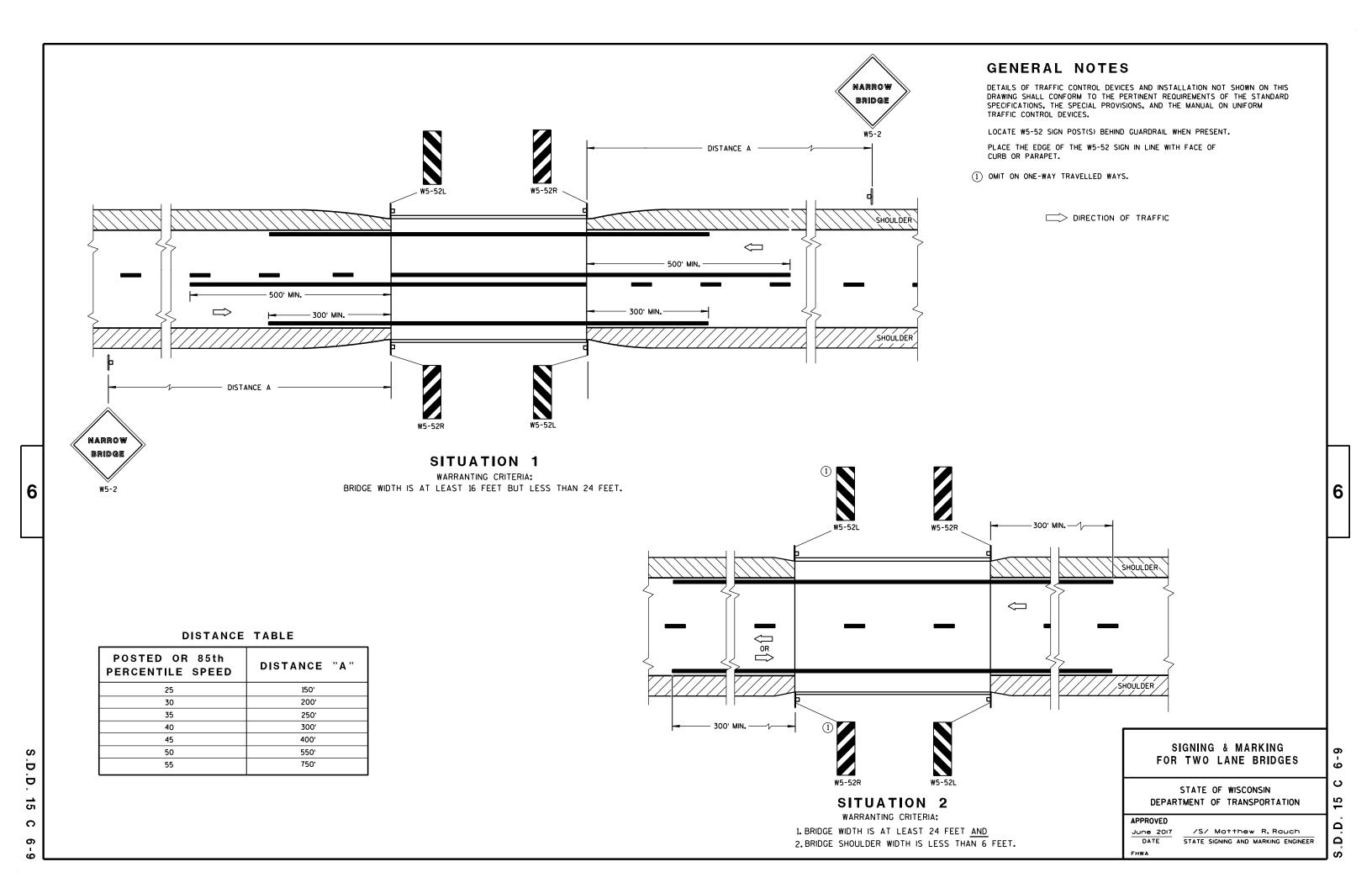
ADVANCED WIDTH RESTRICTION SIGNING

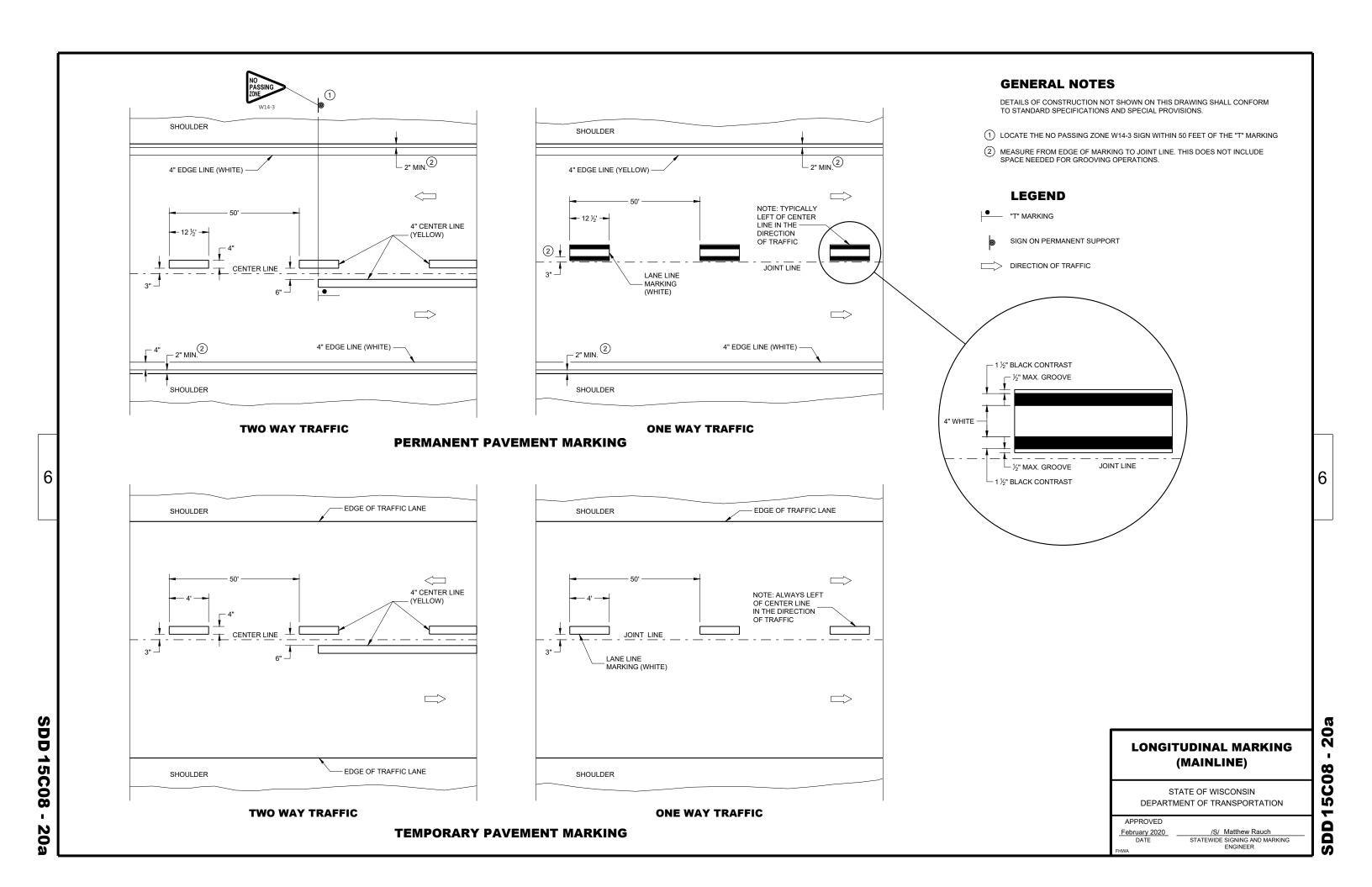
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

February 2020 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER 08 2 Ŋ



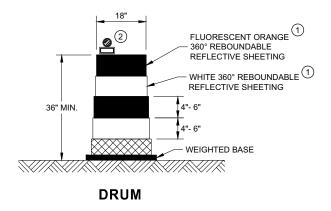


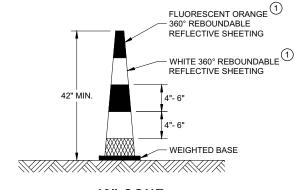


SDD 15C11

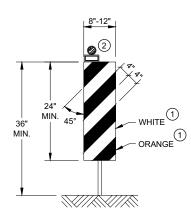
GENERAL NOTES

- (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.

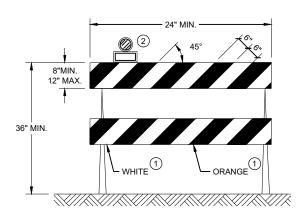




42" CONE DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

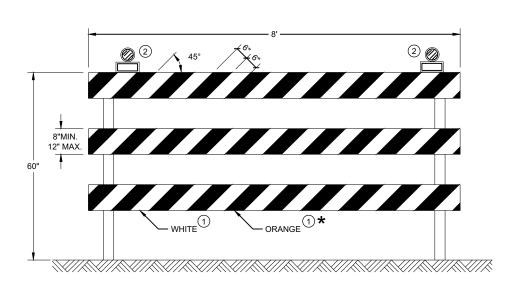


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 08

15C

APPROVED	
November 2020	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

RUMBLE

STRIPS

WORK

GENERAL NOTES FLAGGING LEGEND DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH **FLAGGING OPERATION**

2

S

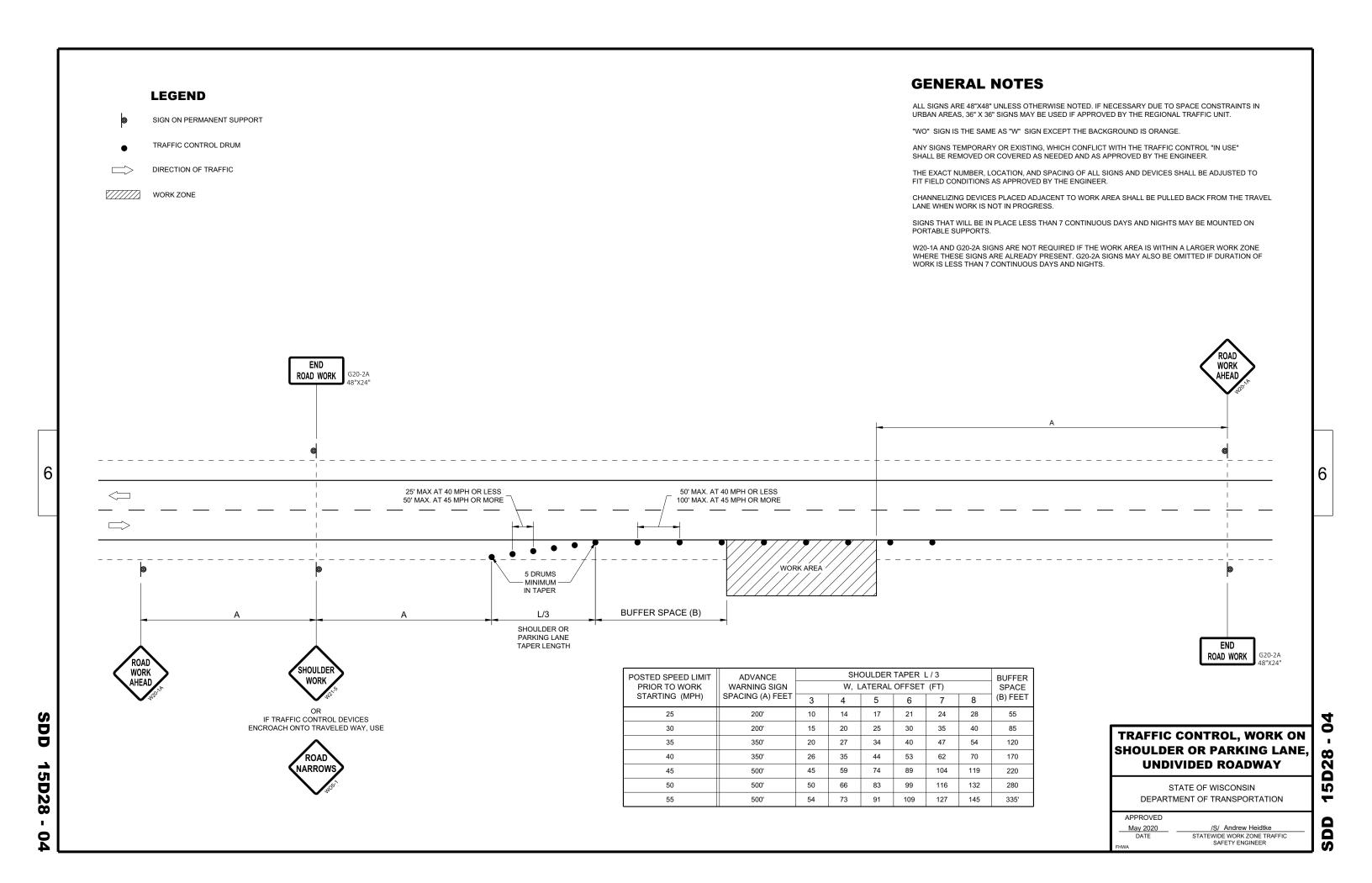
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

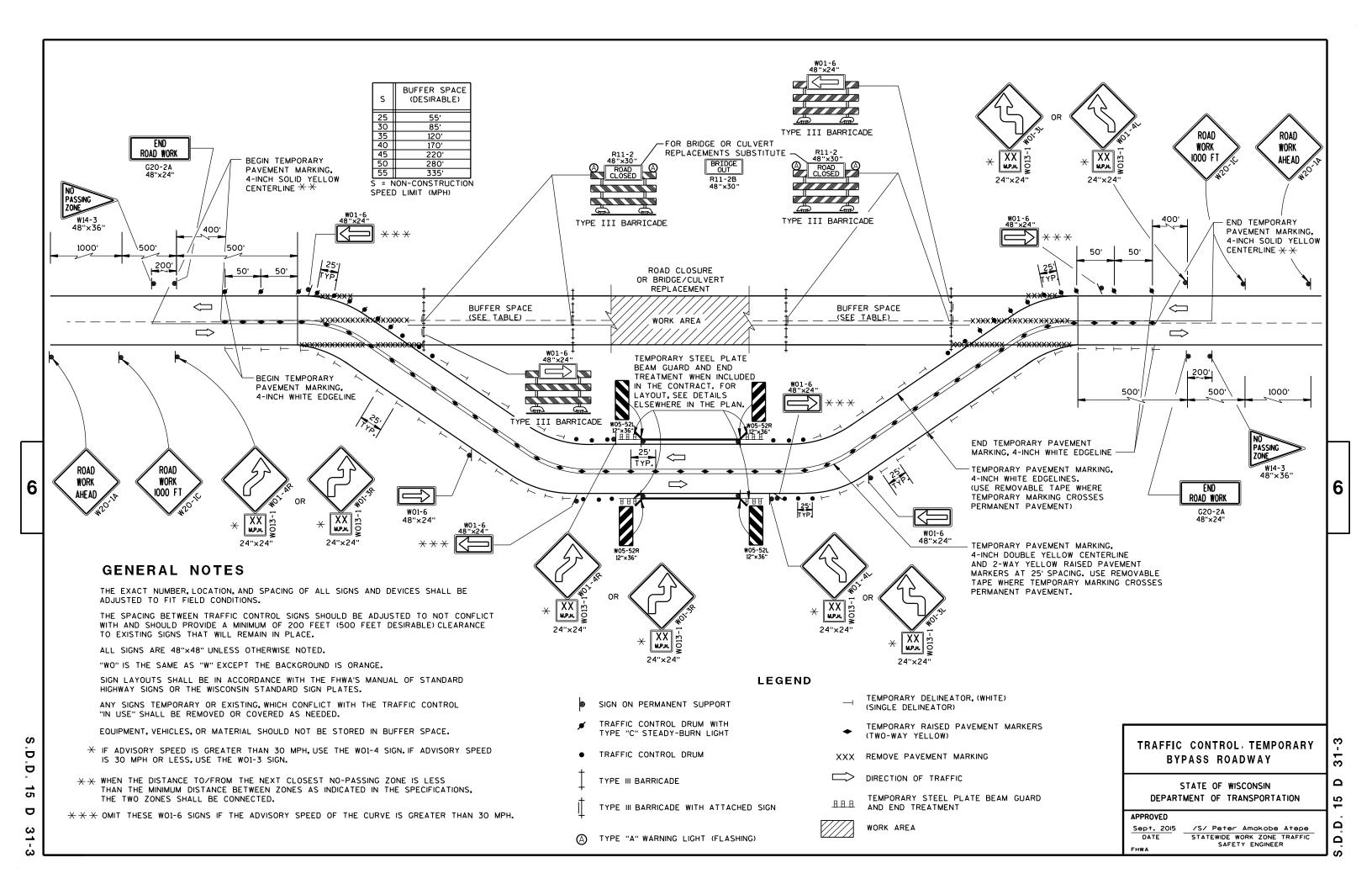
APPROVED	
May 2019	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
ELIMA A	

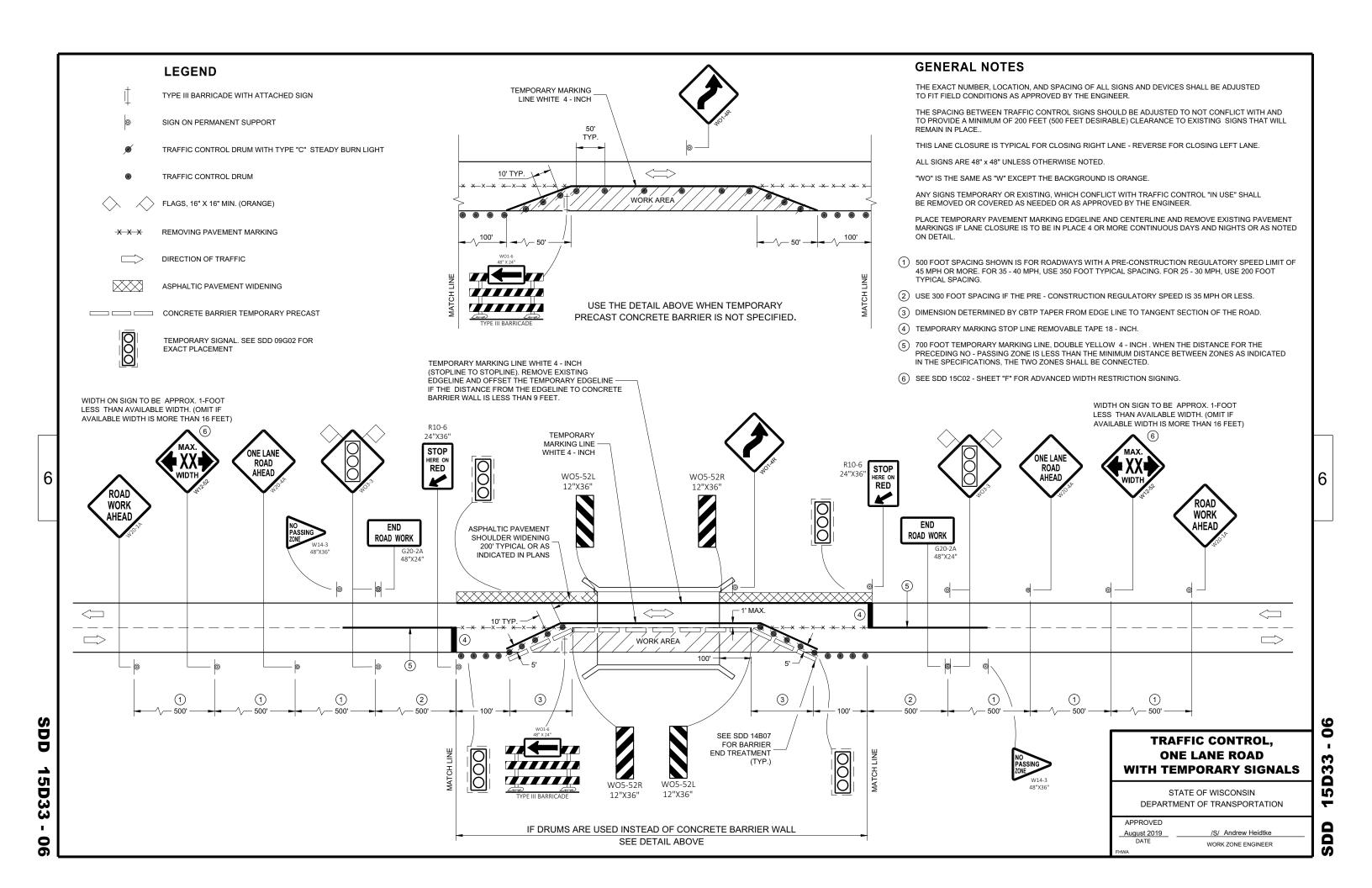
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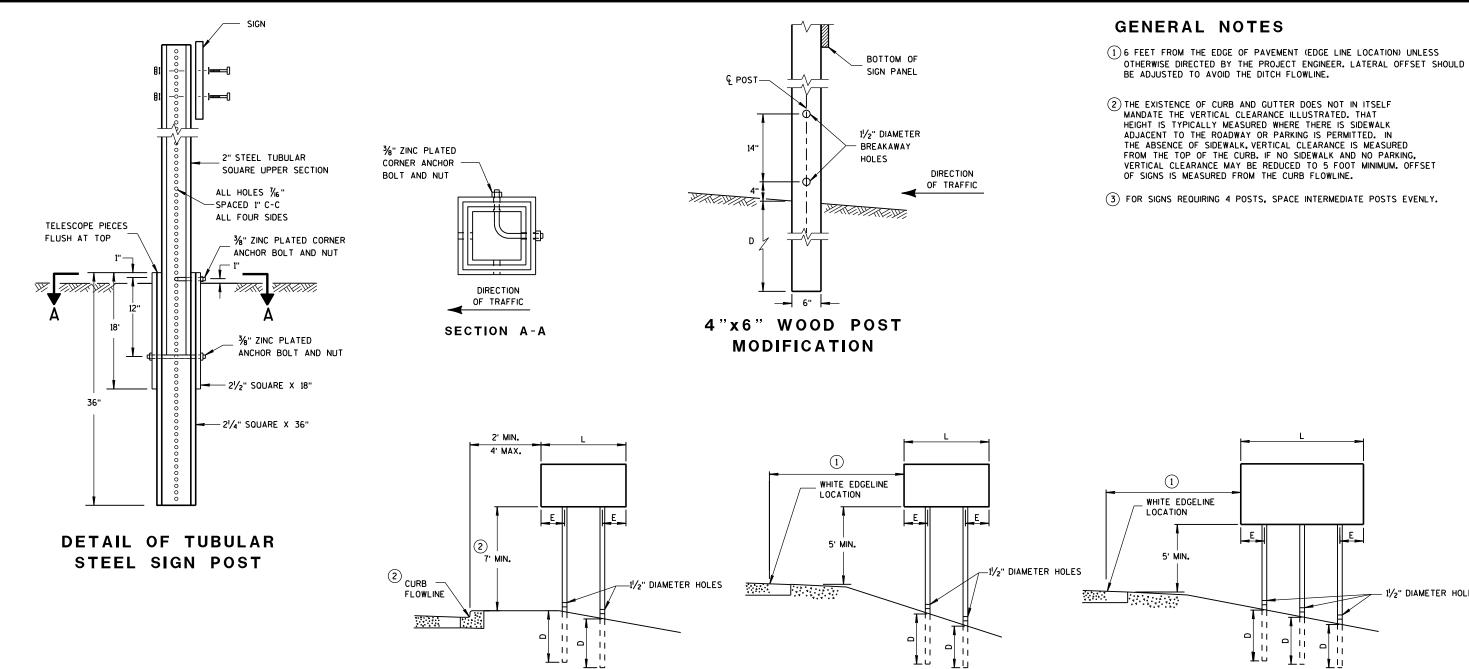
WORK ZONE ENGINEER

6









TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EOUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	؛ [
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

-11

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

S

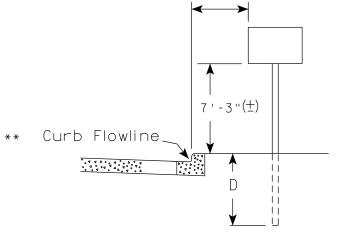
DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke WORK ZONE ENGINEER

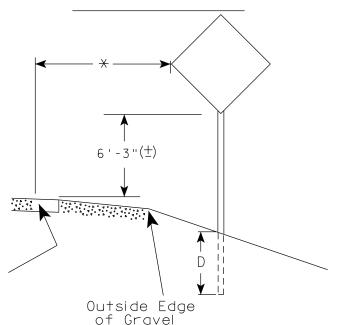
APPROVED

June 2017 DATE

0 ∞ **2**D

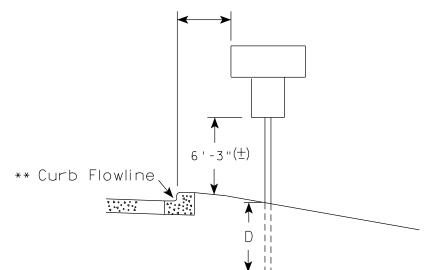


White Edgeline Location



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

HWY:



White Edgeline Location

** The existence of curb and gutter does not in

yeline
Outside Edge
of Gravel

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

* 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.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{2}$).
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign
Installation
(Sq.Ft.)

20 or Less

Greater than 20

Area of Sign
D
(Min)

5'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A43.dgn

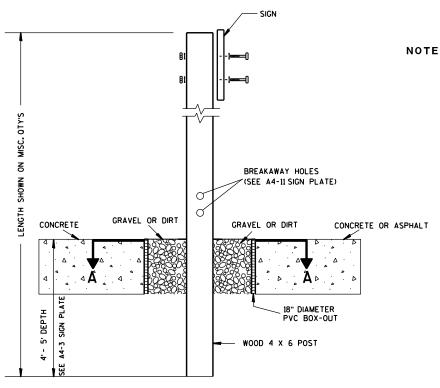
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY: mscj9h

PLOT NAME :

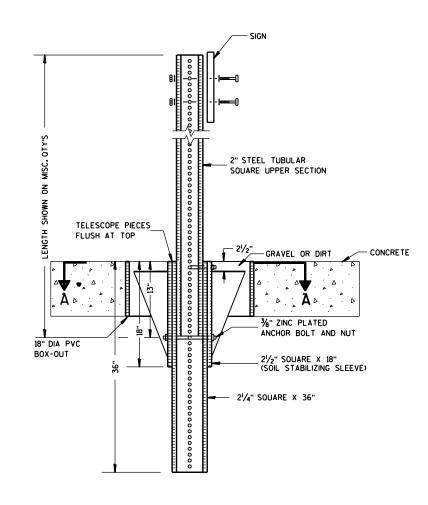
PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42



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.



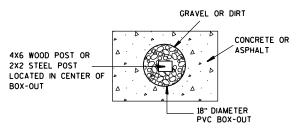
ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT

ELEVATION VIEW

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

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

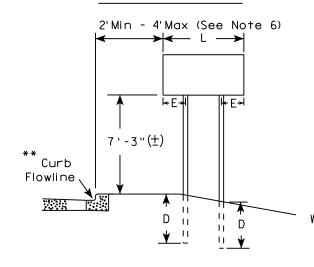
For State Traffic Engineer

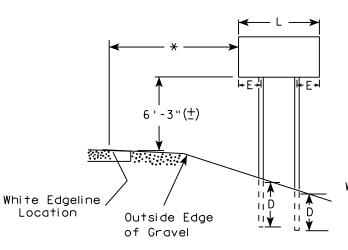
DATE 8/21/17 PLATE NO. A4-4.15

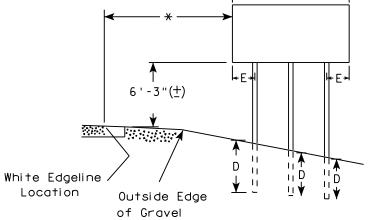
SHEET NO:

URBAN AREA

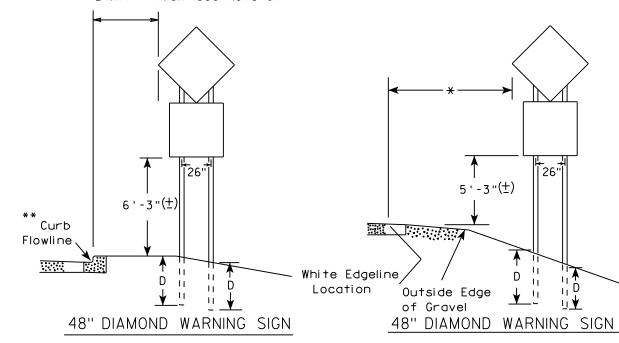
RURAL AREA (See Note 3)







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



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

HWY:

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)		
L	E	
Greater than 108" to 144"	12''	

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

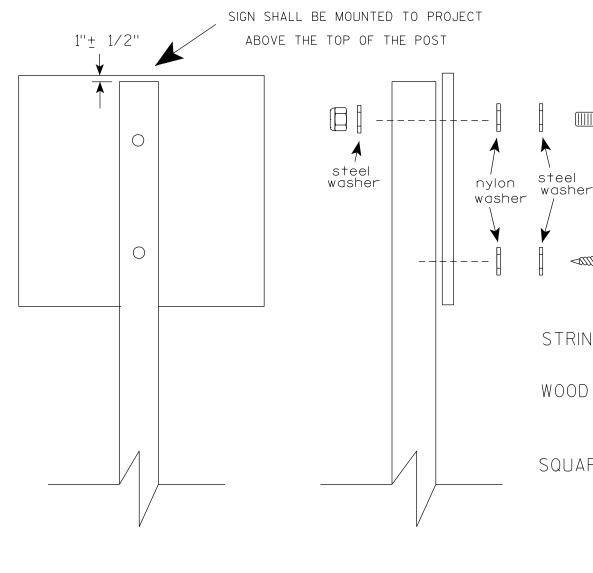
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 108.188297:1.000000

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

DATE 4/1/2020

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

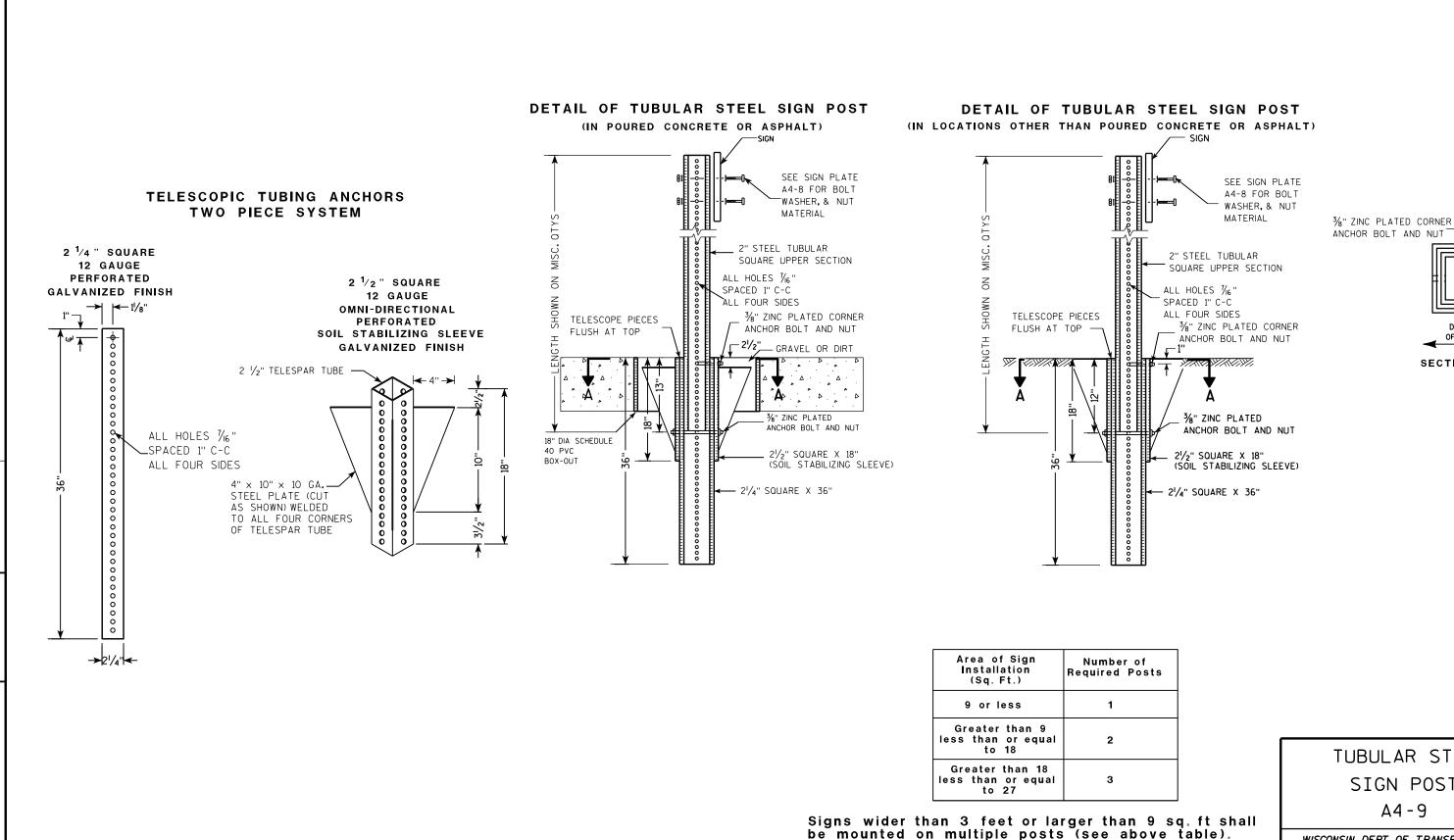
SHEET NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε

PROJECT NO:



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

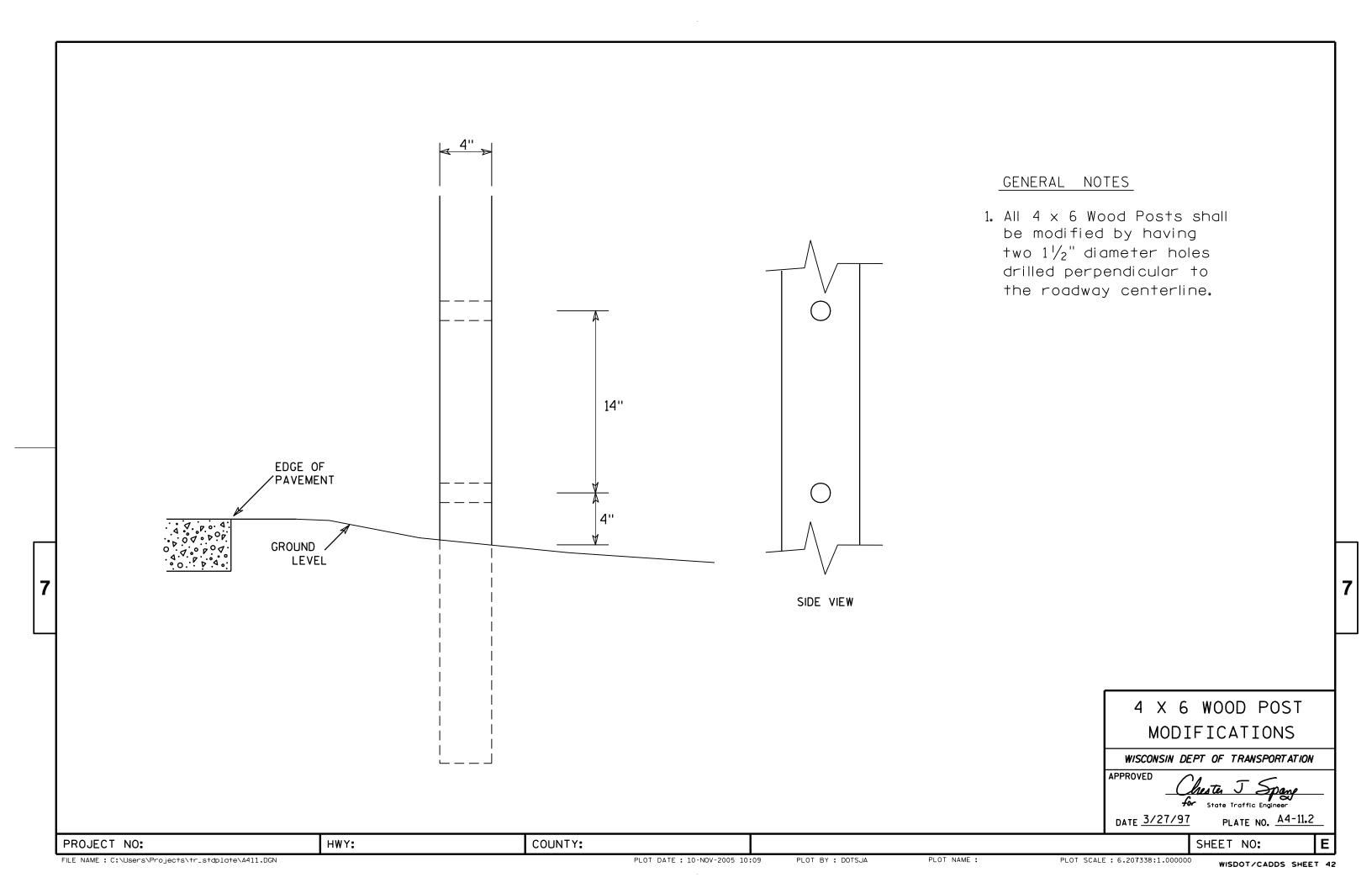
COUNTY:

PLOT NAME :

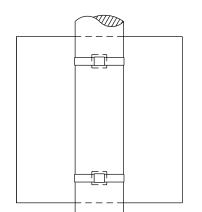
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

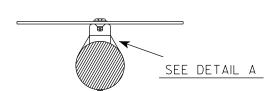
SECTION A-A

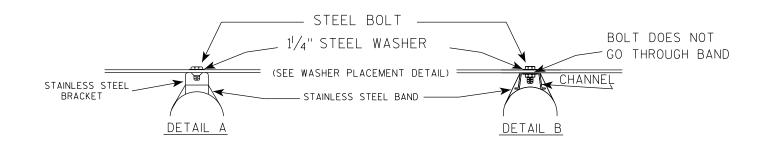


BANDING

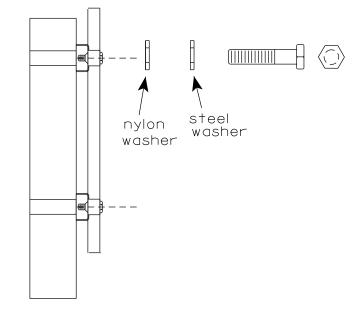


SINGLE SIGN





WASHER PLACEMENT



HWY:

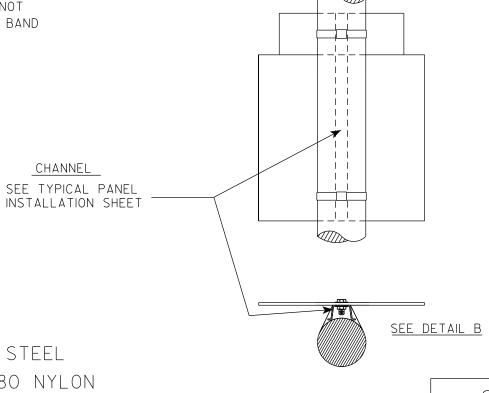
WASHERS (ALL POSTS) -

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

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

APPROVED

DATE 6/10/19

SHEET NO:

State Traffic Engineer

PLATE NO. A5-9.4

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

PROJECT NO:

COUNTY:

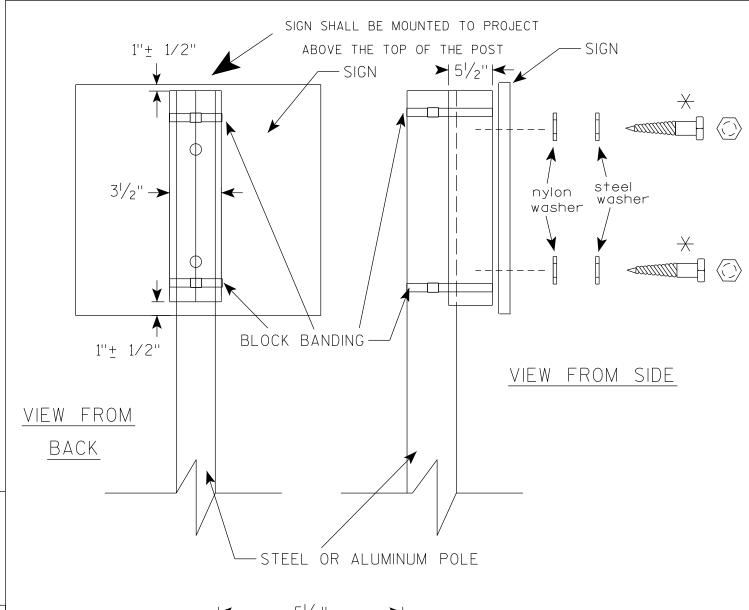
PLOT BY: mscj9h

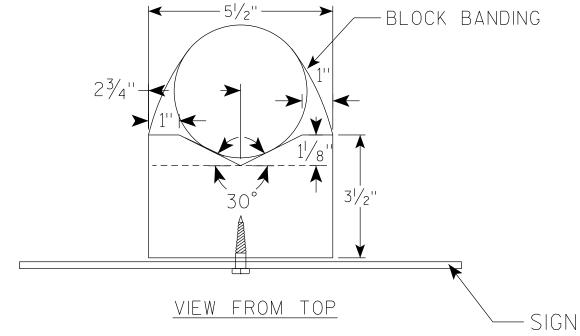
CHANNEL

PLOT NAME :

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

PLOT DATE: 10-JUN 2019 4:10





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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 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 $2\frac{1}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$ State Traffic Engineer

SHEET NO:

Matthew R

DATE <u>6/10/19</u>

PLATE NO. _A5-10.2

PROJECT NO:
FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

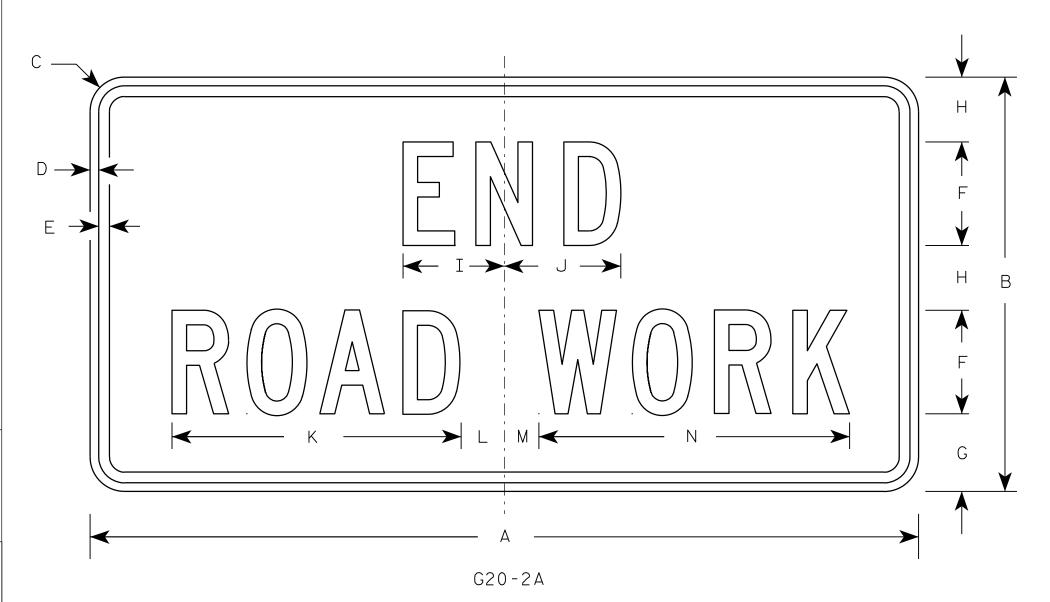
WISDOT/CADDS SHEET 42

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

2. Color:

Background - Orange Message - Black

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



Metric equivalent for this sign is:

SIZE					
1	900	mm	Χ	450	mm
2	1200	mm	Х	600	mm
3	1200	mm	Х	600	mm
4	1200	mm	Χ	600	mm
5	1200	mm	Χ	600	mm

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Ra

For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

Ε

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

HWY:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY: ditjph

PLOT NAME :

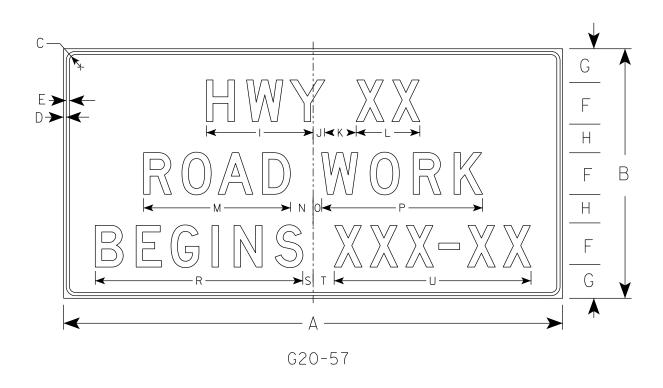
PLOT SCALE: 5.561773:1.000000

61773:1.000000 WISDOT/CADDS SHEET 42

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

Background – Orange Message – Black

- 3. Message Series D
- 4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



SIZE	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 %	1 5/8	5	9 1/4	21 1/4	3 1/2	1 1/2	23 1/4		29 1/8	1 3/4	3 1/4	28 1/2						18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 %	2 1/4	6	12 1/4	28 1/4	4 3/8	1 5/8	31		39 1/4	2	4	37 1/8						32.0
5				·							·	·															

COUNTY:

STANDARD SIGN G20-57

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

For State Traffic Engineer

DATE 1/22/19

PLATE NO. <u>G20-57.3</u>

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_G2057.dgn

HWY:

PROJECT NO:

PLOT DATE: 22-JAN-2019 1:46

PLOT BY: mscj9h

PLOT NAME :

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

1

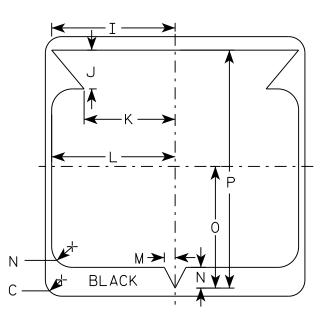
7

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

Background - White Message – Black

- 3. Message Series D except 3 number signs 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.

	G F A H H H
▲ M1 - 6	



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	۵	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																										1	
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

₹or State Traffic Engineer PLATE NO. M1-6.10

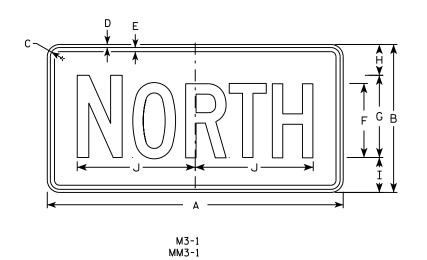
DATE 3/16/18

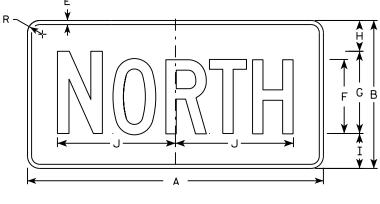
PLOT SCALE : 6.655277:1.000000

SHEET NO:

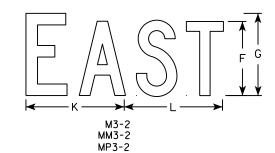
HWY:

PROJECT NO:

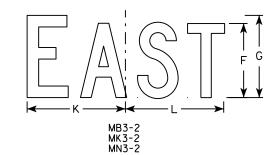


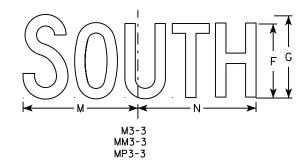


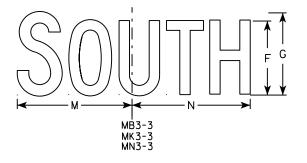
MB3-1 MK3-1 MN3-1

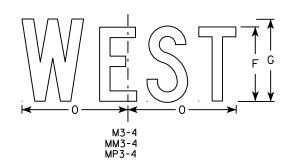


MP3-1

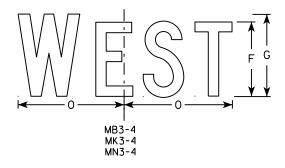








HWY:



NOTES

- 1. All Signs Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

- 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. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

SHEET NO:

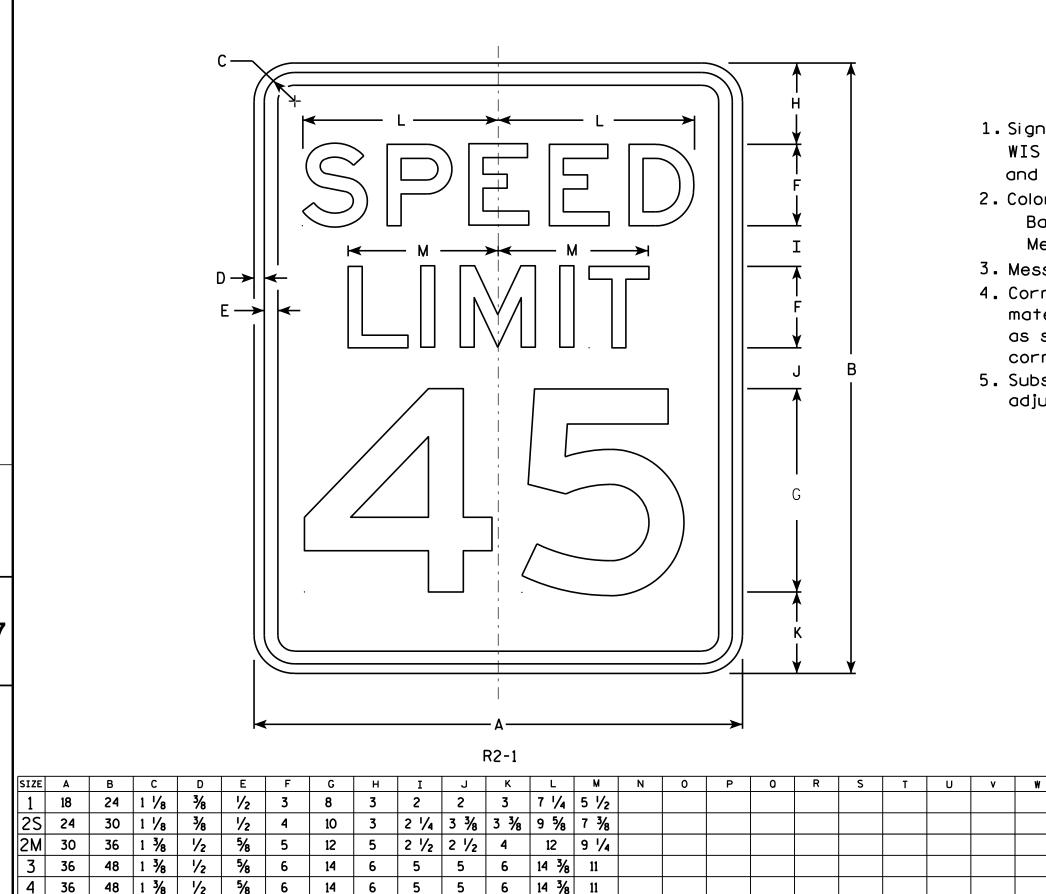
Ε

PROJECT NO: FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000



4 1/2 6 3/4 6 3/4 19 1/4 14 5/8

COUNTY:

20

HWY:

6

NOTES

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series E
- 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 and optically adjust spacing to achieve proper balance.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1 WISCONSIN DEPT OF TRANSPORTATION APPROVED Matther R Raus For State Traffic Engineer DATE <u>5/26/1</u>0 PLATE NO. R2-1.13

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN

2 1/4

5

48

PROJECT NO:

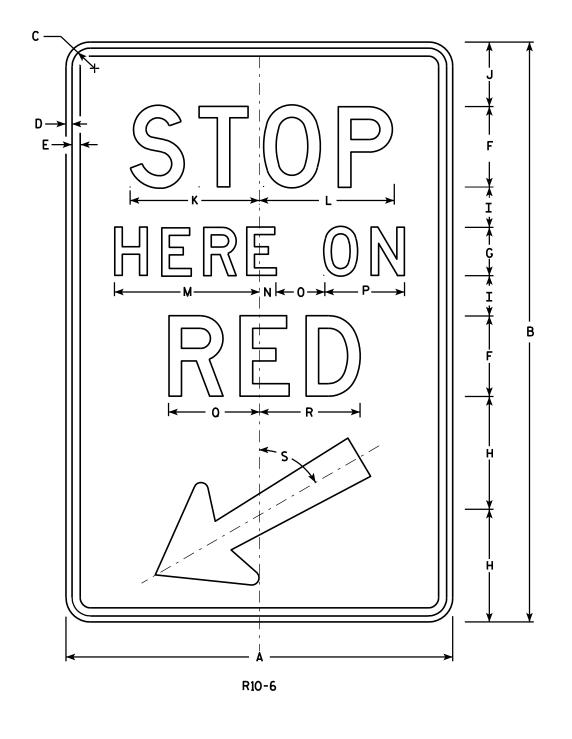
60

PLOT DATE: 28-MAY-2010 08:32

PLOT BY : ditjph

PLOT NAME :

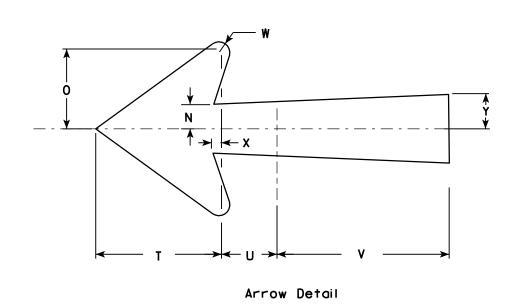
PLOT SCALE: 4.717577:1.000000



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 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.



Α	В	С	D	Ε	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	₩	X	Υ	Z	Area sq. ft
24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 %	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 %	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
					·															·						
	24	24 36	24 36 1 1/8	24 36 1 1/8 3/8	24 36 1 1/8 3/8 1/2	24 36 1 1/8 3/8 1/2 5	24 36 1 1/8 3/8 1/2 5 3	24 36 1 1/8 3/8 1/2 5 3 7	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4 8	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4 8 8 3/8	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4 8 8 3/8 9	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4 8 8 3/8 9 1	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4 8 8 3/8 9 1 3	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4 8 8 3/8 9 1 3 5	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4 8 8 3/8 9 1 3 5 5 5/8	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4 8 8 3/8 9 1 3 5 5 5/8 6 1/4	24 36 1 ½ 3/8 ½ 5 3 7 2 ½ 4 8 8 3/8 9 1 3 5 5 5/8 6 ¼ 60°	24 36 1 ½ 3/8 ½ 5 3 7 2 ½ 4 8 8 3/8 9 1 3 5 5 5/8 6 ¼ 60° 5 ¼	24 36 1 ½ 3/8 ½ 5 3 7 2 ½ 4 8 8 3/8 9 1 3 5 5 ½ 6 ¼ 60° 5 ¼ 2 ¼	24 36 1 ½ 3/8 ½ 5 3 7 2 ½ 4 8 8 3/8 9 1 3 5 5 ½ 6 ¼ 60° 5 ¼ 2 ¼ 7 ½	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4 8 8 3/8 9 1 3 5 5 5/8 6 1/4 60° 5 1/4 2 1/4 7 1/8 1/2	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4 8 8 3/8 9 1 3 5 5 5/8 6 1/4 60° 5 1/4 2 1/4 7 1/8 1/2 3/8	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4 8 8 3/8 9 1 3 5 5 5/8 6 1/4 60° 5 1/4 2 1/4 7 1/8 1/2 3/8 1 3/8	24 36 1 1/8 3/8 1/2 5 3 7 2 1/2 4 8 8 3/8 9 1 3 5 5 5/8 6 1/4 60° 5 1/4 2 1/4 7 1/8 1/2 3/8 1 3/8

COUNTY:

STANDARD SIGN R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe K Rauch
for State Traffic Engineer

DATE 4/5/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R106.DGN

HWY:

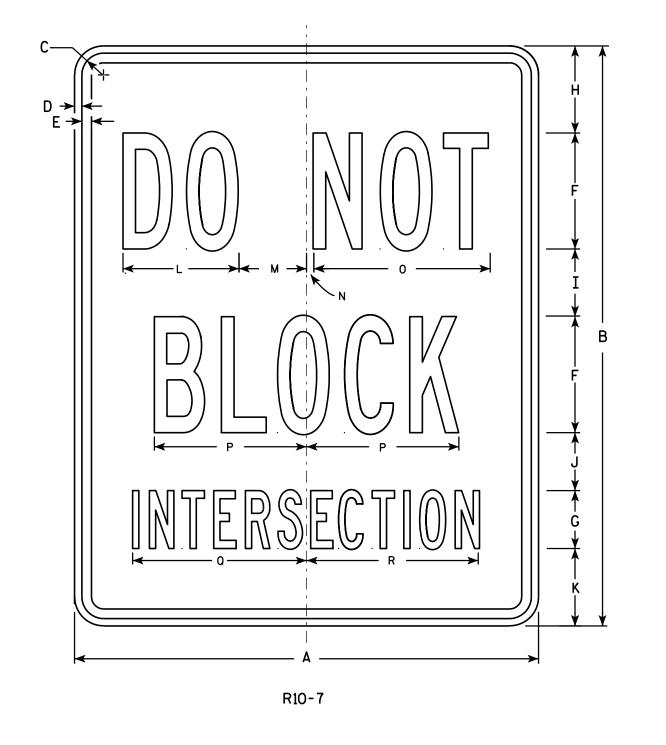
PROJECT NO:

PLOT DATE: 05-APR-2011 09:50

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 5.959043:1.000000



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

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

н 3/8 4 1/2 3 1/2 3 3/8 9 1/8 7 7/8 24 30 | 1 1/8 | 1/2 3 1/2 9 8 1/8 5.0 6 2M 3/8 24 3/8 1/2 4 1/2 3 1/2 3 3 1/2 9 1/8 7 7/8 9 8 1/8 5.0 30 | 1 1/8 3 36 48 | 1 3/8 5/8 5 % 1/2 1/2 5 1/4 4 1/2 6 1/4 | 15 1/8 | 13 1/8 | 15 14 1/8 12.0 4 5

COUNTY:

STANDARD SIGN R10-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED for State Traffic Engineer PLATE NO. R10-7.5

DATE 4/5/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R107.DGN

HWY:

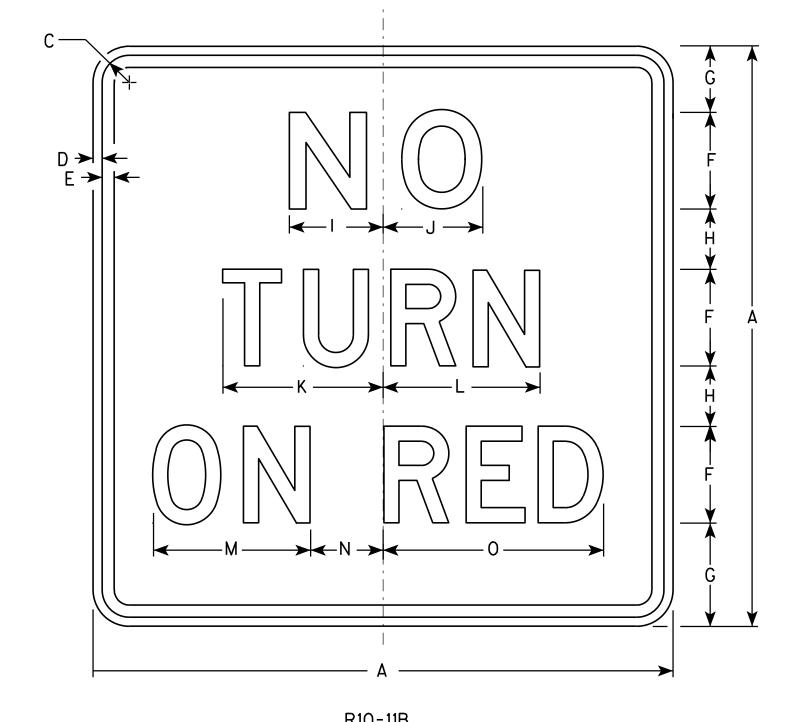
PROJECT NO:

PLOT DATE: 05-APR-2011 09:44

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 4.965868:1.000000



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series See Note 5.
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series E. Lines 2 and 3 are Series D.

R10-11B

SIZE	Α	В	C	D	E	F	G	H	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3/8	3/8	3	2 3/4	1 3/4	3	3 1/8	5	4 1/8	5 1/4	1 %	7 1/8												2.25
25	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 %	4 1/8	6 %	6 1/2	6 1/2	3	9 1/8												4.0
2M	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 %	4 1/8	6 %	6 1/2	6 1/2	3	9 1/8												4.0
3	30		1 3/8	1/2	5/8	5	4 1/2	3	4 1/8	5 1/4	8 1/4	8 1/8	7 3/4	4 1/8	11 1/8												6.25
4																											
5																											

COUNTY:

STANDARD SIGN R10-11B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Rauch fer State Traffic Engineer DATE 4/5/11 PLATE NO. R10-11B.4

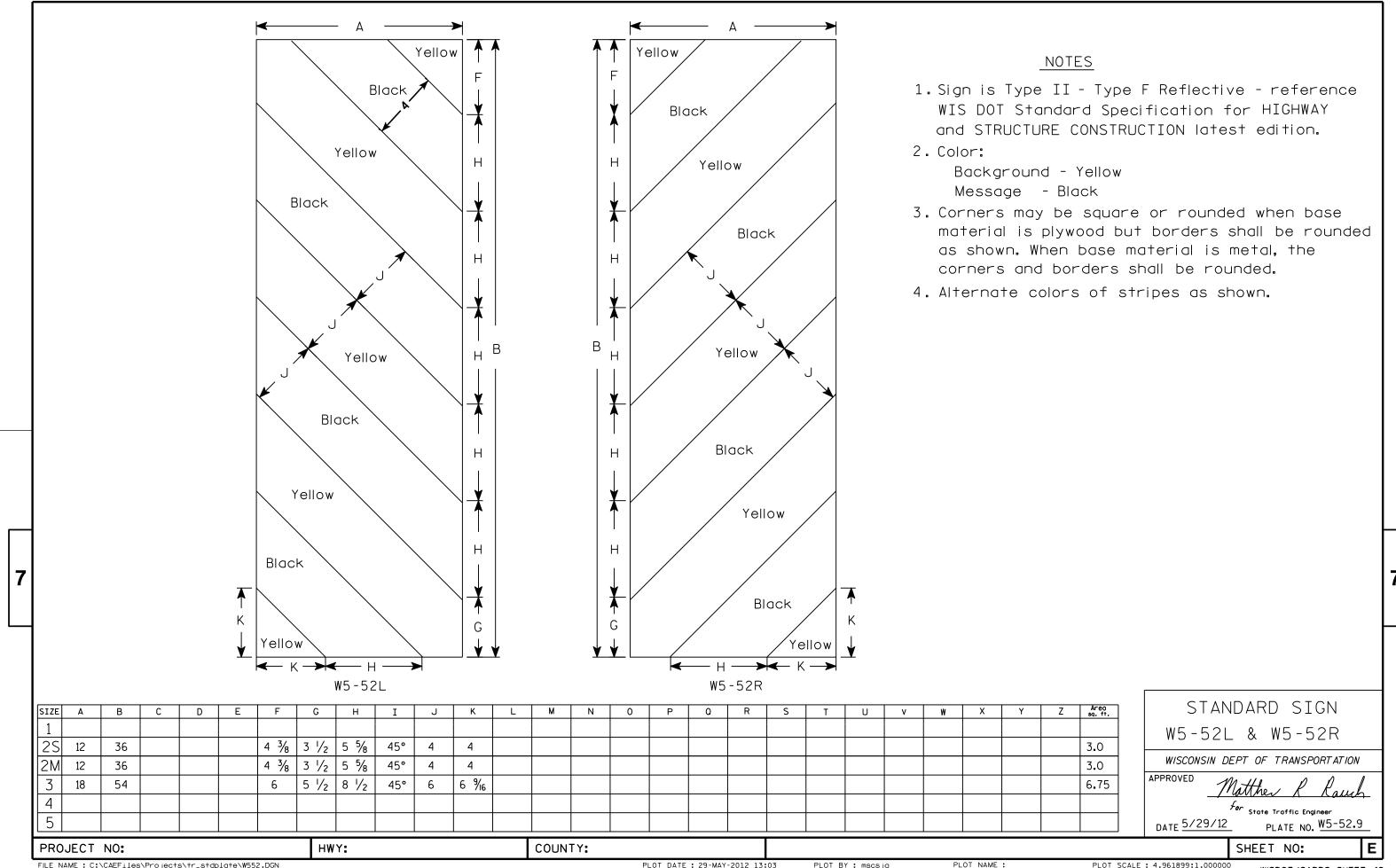
SHEET NO:

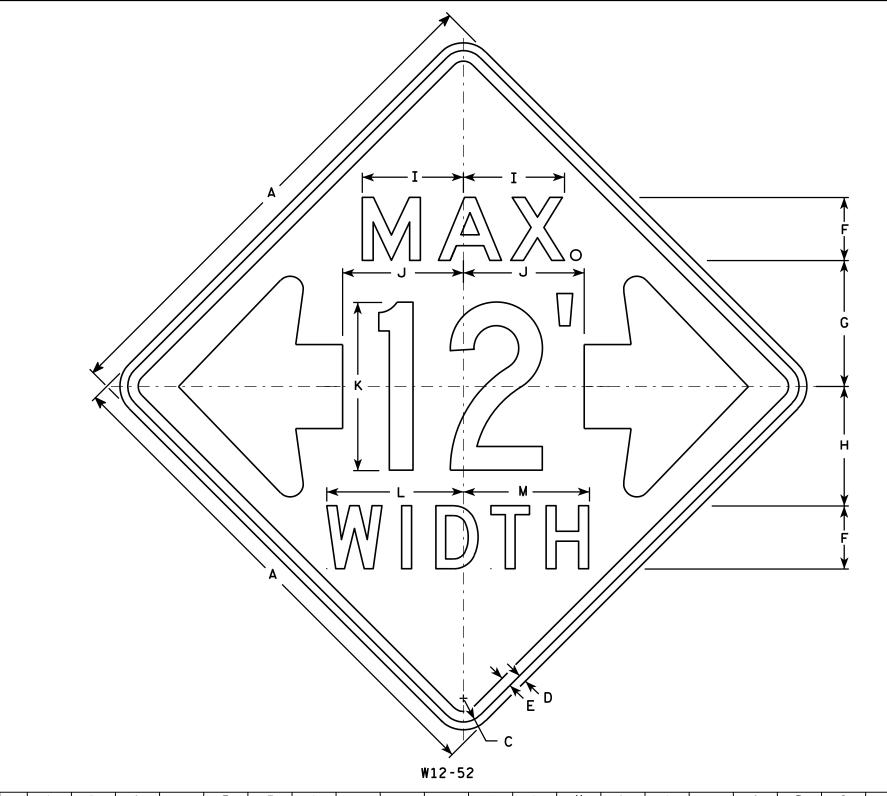
HWY:

PROJECT NO:

PLOT BY: mscj9h

PLOT NAME :

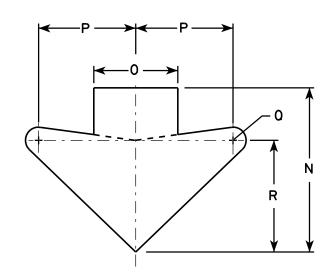




- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

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. The top line is series E, the numerals are series C, and the bottom line is series D.
- 6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 %									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 %									16.0
3																											
4																											
5																											

COUNTY:

STANDARD SIGN W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 3/16/11 PLATE NO. W12-52.7

SHEET NO:

HWY:

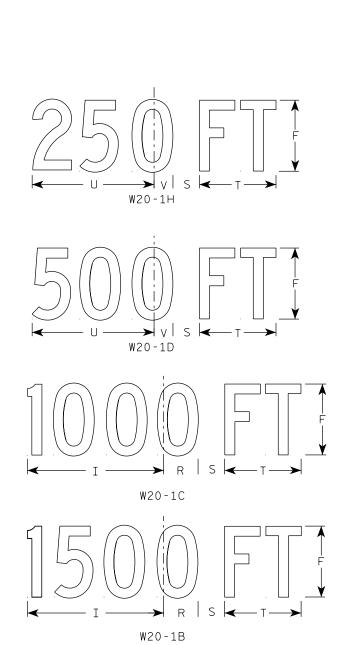
PROJECT NO:

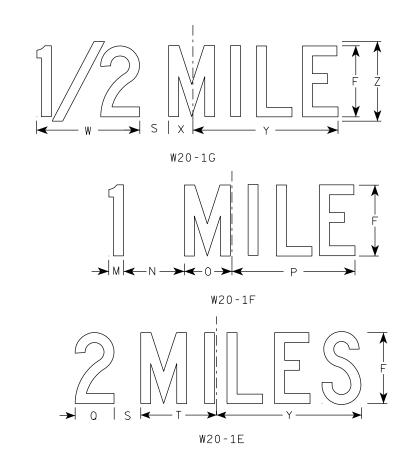
PLOT BY: mscj9h

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

Background – Orange Message – Black

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





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 1/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 %	9	1 3/8	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 ¾	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

For State Traffic Engineer
DATE 3/25/2020 PLATE NO. W20-1.11

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN

PROJECT NO:

W20-1A

PLOT DATE: 25-MARCH-2020

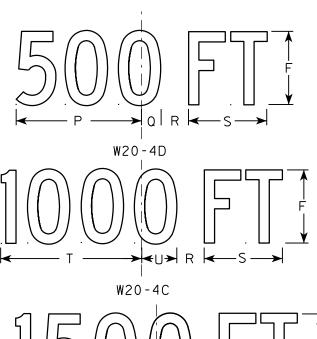
PLOT BY : dotc4c

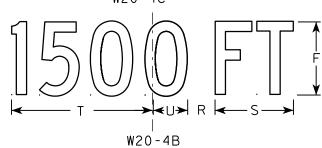


- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

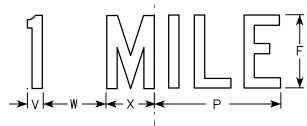
Background - Orange Message - Black

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









- 1	
W20	-4F

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 1/8	9	1 3/8	1 1/8	5 %	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	10 ¾	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 %	3 1/4	10 %	17 ¾	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 %	3 1/4	10 %	17 ¾	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 %	3 1/4	10 %	17 ¾	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 %	3 1/4	10 %	17 ¾	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 %	3 1/4	10 %	17 ¾	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 ½	3 %	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

W20-4A

STANDARD SIGN W20-4A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED State Traffic Engineer

DATE 3/18/11

SHEET NO:

FILE NAME: C:\Users\PROJECTS\tr_stdplate\W204.DGN

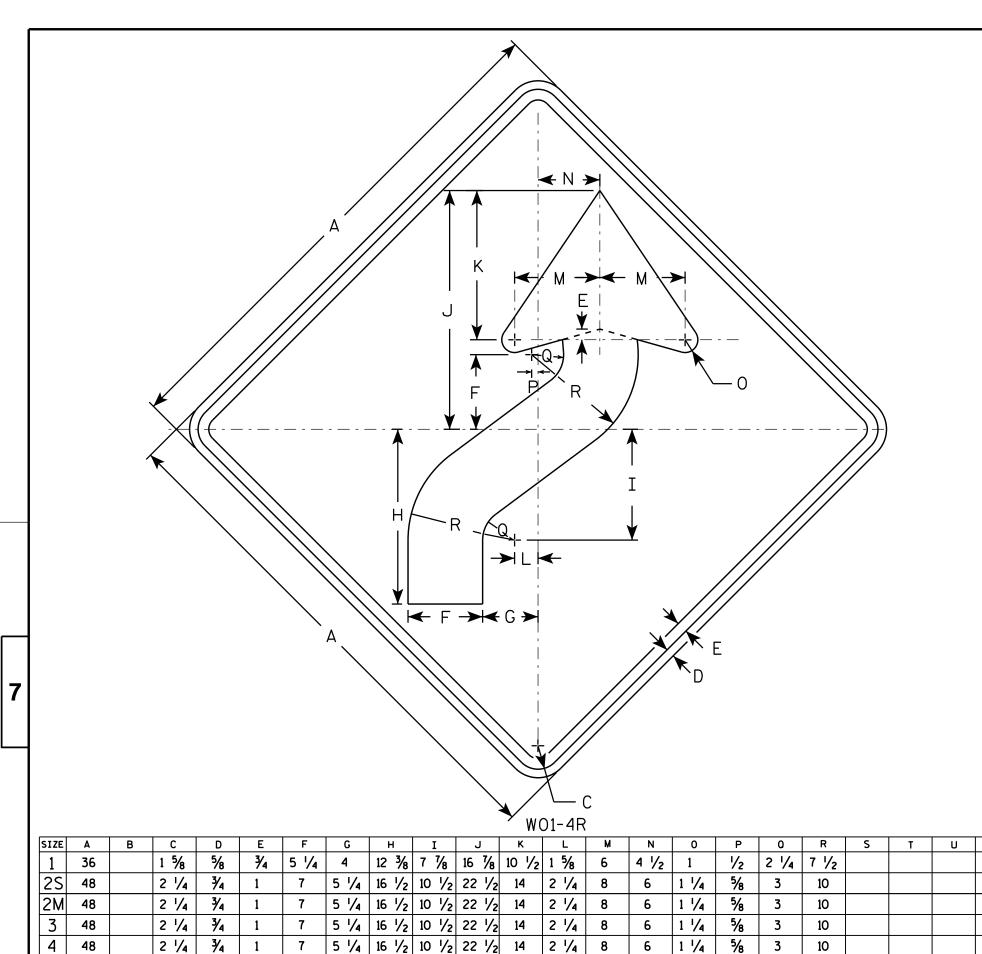
PROJECT NO:

PLOT DATE: 18-MAR-2011 12:11

PLOT BY: mscj9h

Ε

PLATE NO. W20-4.9



5 1/4 16 1/2 10 1/2 22 1/2 14

HWY:

2 1/4

NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. WO1-4L is the same as WO1-4R except the arrow is reversed along the vertical centerline.

Area sq. ft.

9.0

16.0

16.0

16.0

16.0

16.0

STANDARD SIGN WO1-4 WISCONSIN DEPT OF TRANSPORTATION **APPROVED** for State Traffic Engineer

DATE <u>11/18/1</u>3

PLATE NO. WO1-4.1 SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN

2 1/4 | 3/4

48

48

PROJECT NO:

PLOT DATE: 28-FEB-2014 11:35

1 1/4

COUNTY:

10

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 6.755110:1.000000

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

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

c —	
	B
K	
M ————————————————————————————————————	
NH	
A	
WO1-6	

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5

COUNTY:

STANDARD SIGN WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

SHEET NO:

DATE 11/18/13 PL

13 PLATE NO. <u>WO1-6.1</u>

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN

HWY:

PROJECT NO:

PLOT DATE: 28-FEB-2014 11:37

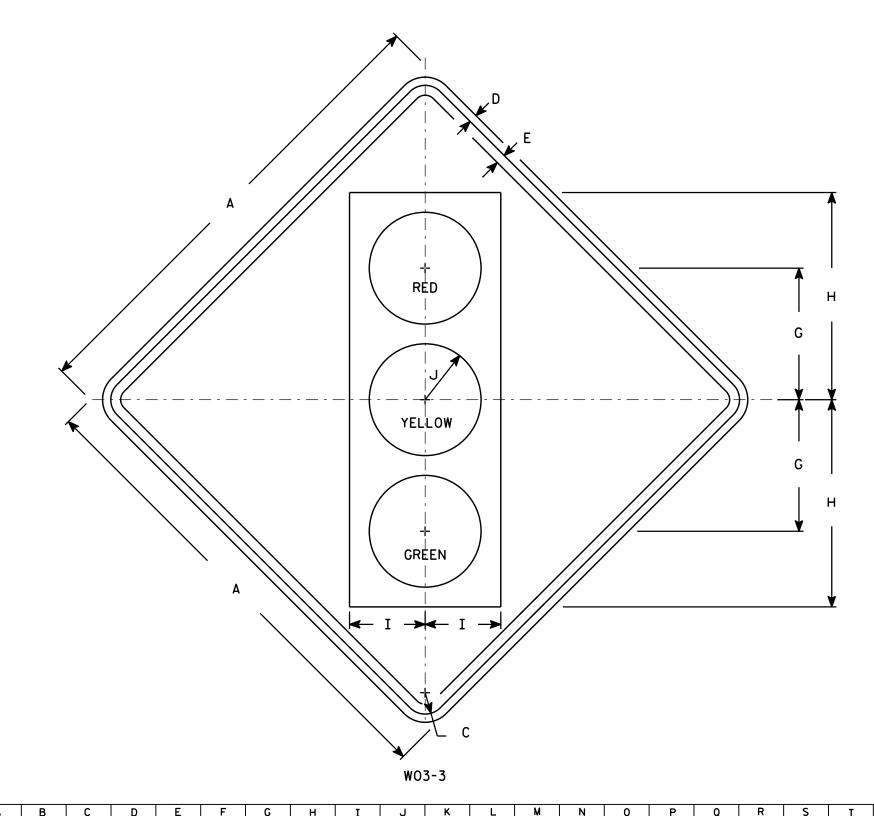
PLOT N

PLOT BY: mscj9h

PLOT SCALE : 5.837526:1.000000

WISDOT/CADDS SHEET 42

PLOT NAME :



- Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Symbol and border are non-reflective black.

 Top circle Type H Reflectorized Red

 Center circle Same as background

 Bottom circle Type H Reflectorized Green

SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 %	5/8	3/4		10	15 ¾	5 3/4	4 1/4																	9.0
2S	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
2M	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
3	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5	·															·	16.0

COUNTY:

STANDARD SIGN W03-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch for State Traffic Engineer

DATE 11/20/13 PLATE NO. WO3-3.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W033.DGN

HWY:

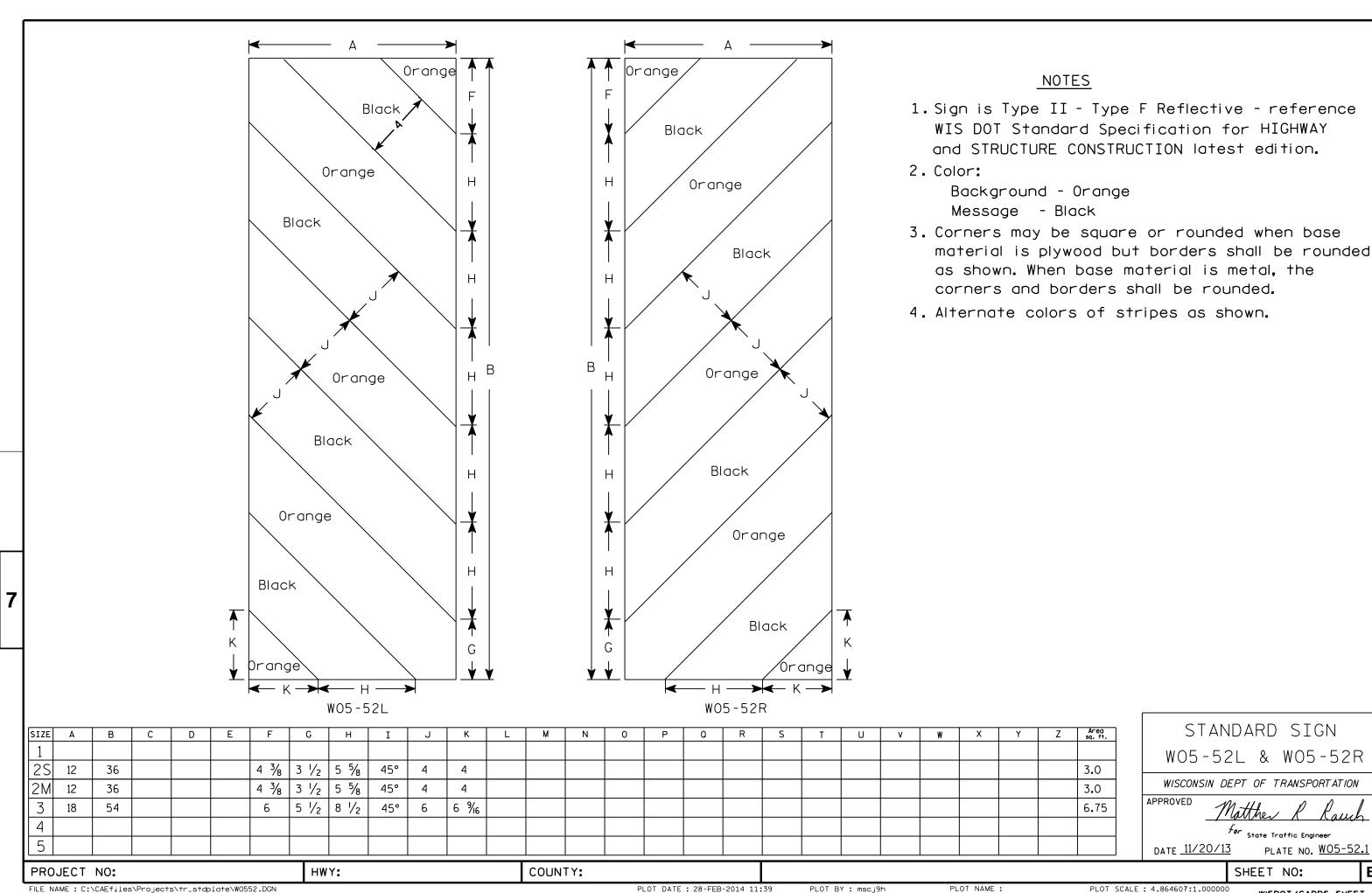
PROJECT NO:

PLOT DATE: 20-NOV-2013 11:26

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 7.296908:1.000000



PLOT SCALE: 4.864607:1.000000

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

Background - Orange Message - Black

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

W057-52

HWY:

* See note 5

SIZE	Α	В	С	D	E	F	G	Н	I	٦	K	J	М	N	0	Ρ	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 %	10 %	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 %	19 ½	14	15	2 3/4	16 3/8													12.0

COUNTY:

STANDARD SIGN W057-52

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

Matther R Rauch

DATE 3/21/17

PLATE NO. W057-52.2

....

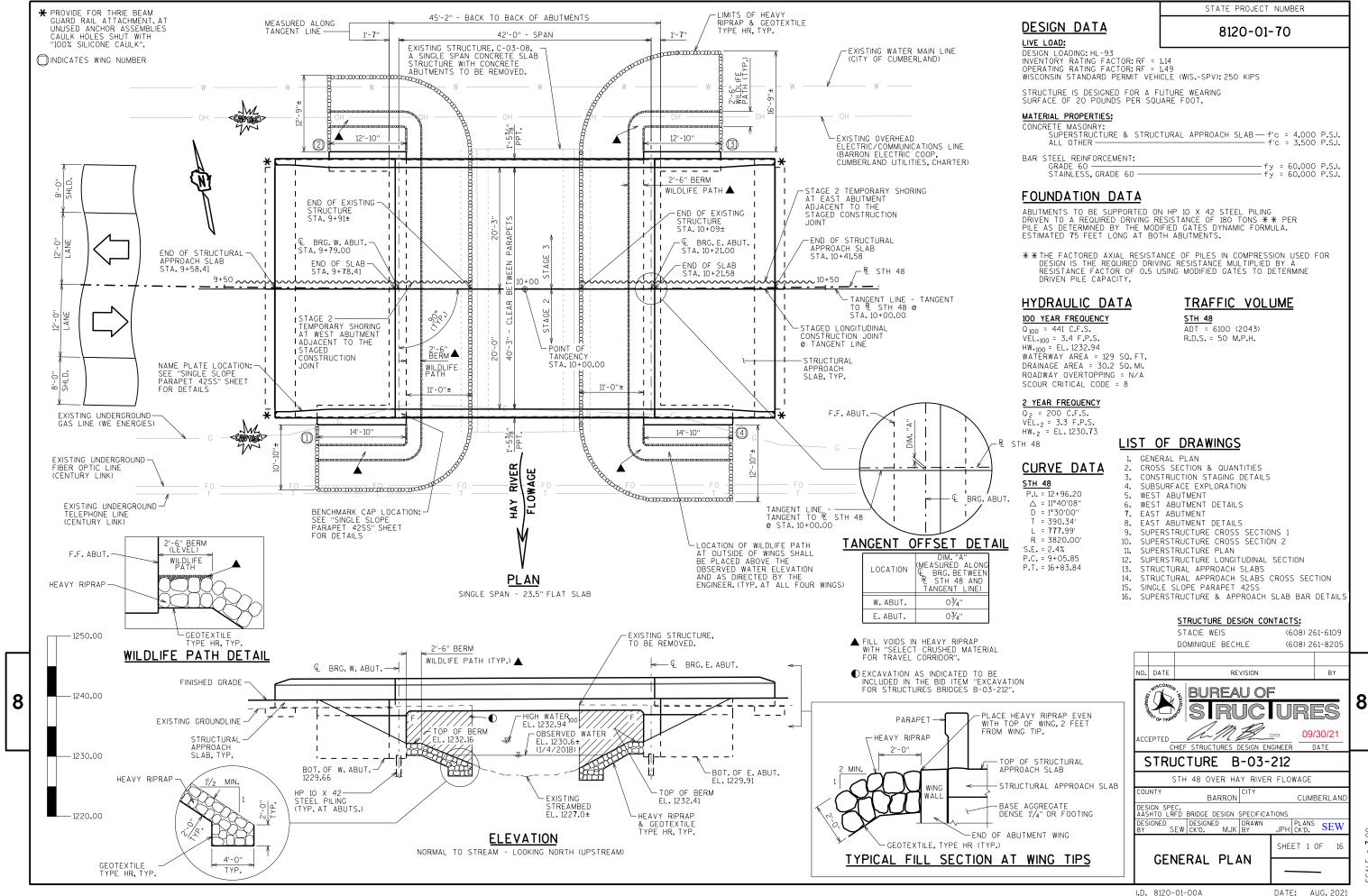
FILE NAME: C:\CAEfiles\Projects\tr_stdplate\W05752.DGN

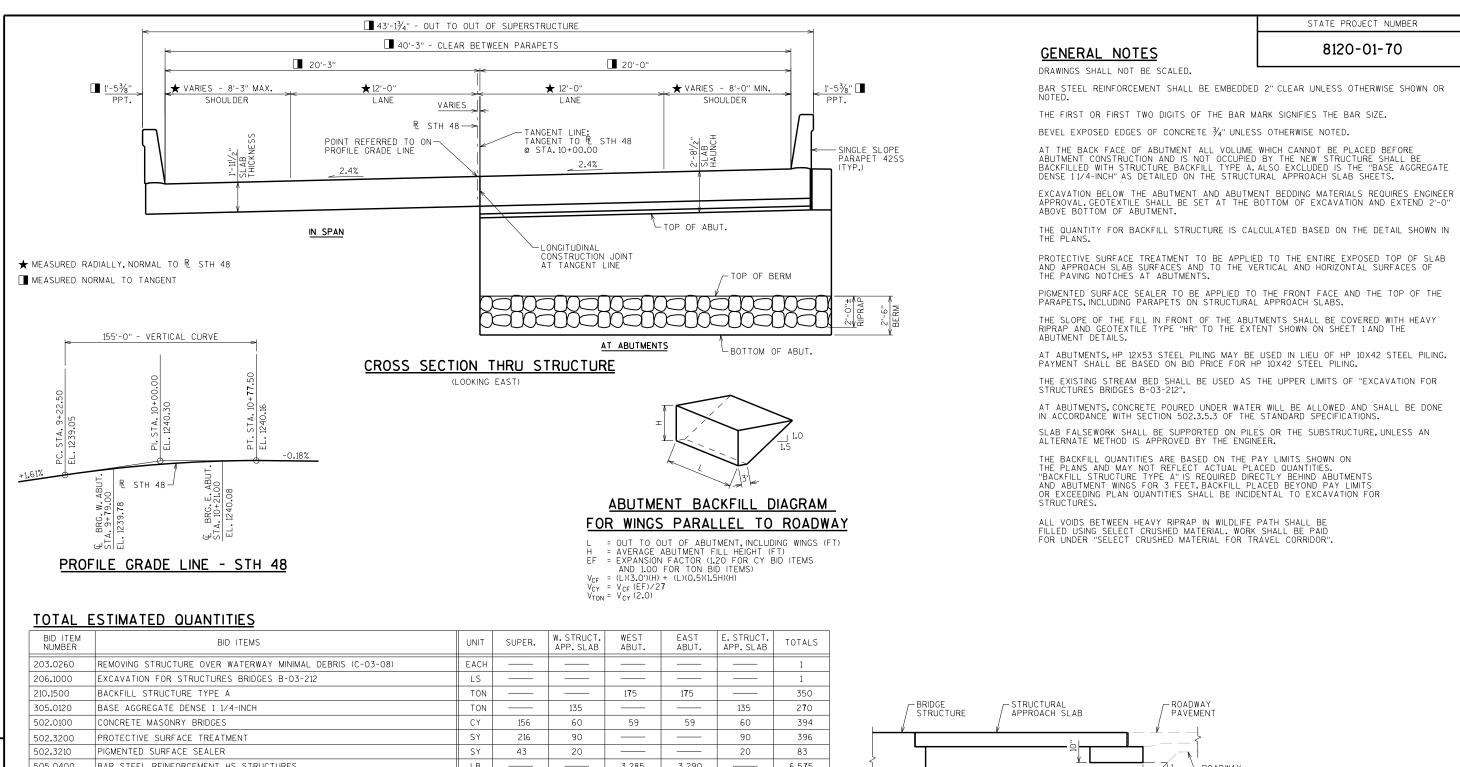
PROJECT NO:

PLOT DATE: 21-MAR-2017 08:53

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 8.139174:1.000000





LB 505,0400 BAR STEEL REINFORCEMENT HS STRUCTURES 3,285 3.290 6.575 505,0600 BAR STEEL REINFORCEMENT HS COATED STRUCTURES LB 31,435 10,265 1,800 1,810 10,265 55,575 BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES LB 400 400 505.0800.S 505.0908 BAR COUPLERS NO. 8 EACH 38 511.1200 TEMPORARY SHORING B-03-212 600 600 1,200 516.0500 RUBBERIZED MEMBRANE WATERPROOFING SY 14 14 28 PILING STEEL HP 10-INCH X 42 LB 600 550,1100 1 F 600 1,200 606.0300 RIPRAP HEAVY CY 100 110 210 612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH LF 110 110 220 614.0150 ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD EACH 4 4 GEOTEXTILE TYPE DF SCHEDULE A 645.0111 45 90 SY 45 645,0120 GEOTEXTILE TYPE HR SY 150 160 310 SPV.0195 SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR TON 15 15 30 NON-BID ITEMS 1/2", 3/4", 11/2" SIZE FILLER

1'-6" SUBBASE - ARLITMENT BACKFACE PAY LIMITS OF BASE AGGREGATE DENSE 11/4" 1.5 ►PAY LIMITS OF BACKFILL **▲** BACKFILL STRUCTURE TYPE A 3'-0" REQ'D - "GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-O" ABOVE BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH. NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION TYPICAL SECTION STRUCTURES DESIGN SECTION THRU ABUTMENT STRUCTURE B-03-212 ⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES, LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR. JPH CK'D. SEW SHEET 2 ➡ PIPE UNDERDRAIN WRAPPED (6 INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. PIPE UNDERDRAIN TO DISCHARGE NO LOWER THAN CROSS SECTION & QUANTITIES FL . 1231.60. 91

W

CALE = 3.00

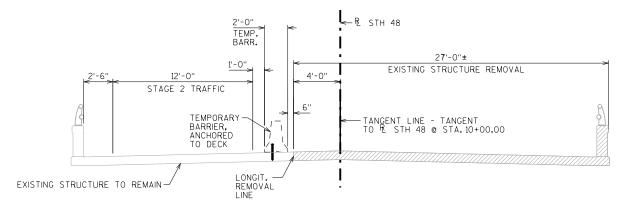
8120-01-70

ALL DIMENSIONS MEASURED NORMAL TO THE TANGENT LINE.

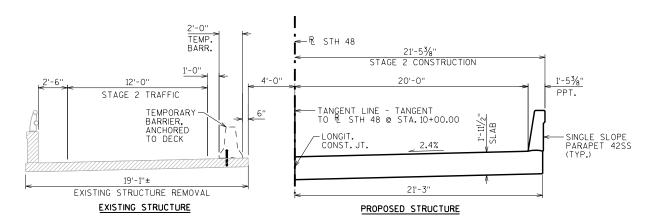
INDICATES EXISTING STRUCTURE REMOVAL

TEMPORARY BARRIER PAID FOR UNDER ROADWAY BID ITEMS.

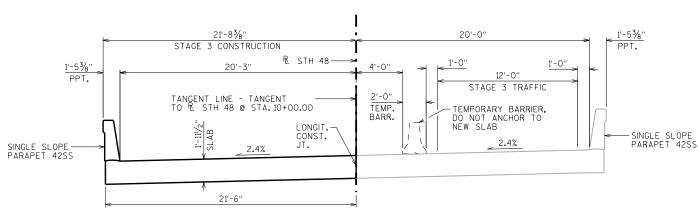
SLAB SUPPORTING FALSEWORK FROM STAGE 2 CONSTRUCTION MUST REMAIN IN PLACE UNTIL THE COMPLETION OF THE ENTIRE WIDTH OF THE SLAB AT THE END OF STAGE 3 CONSTRUCTION. DO NOT RELEASE ANY FALSEWORK UNTIL STAGE 3 PORTION OF THE SLAB HAS CURED AND REACHED THE 28 DAY COMPRESSIVE STRENGTH, F'C, SPECIFIED IN THE PLANS.



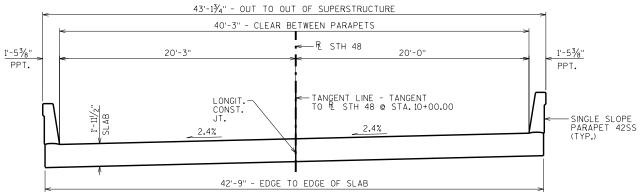
STAGE 2 REMOVAL



STAGE 2 CONSTRUCTION



STAGE 3 CONSTRUCTION

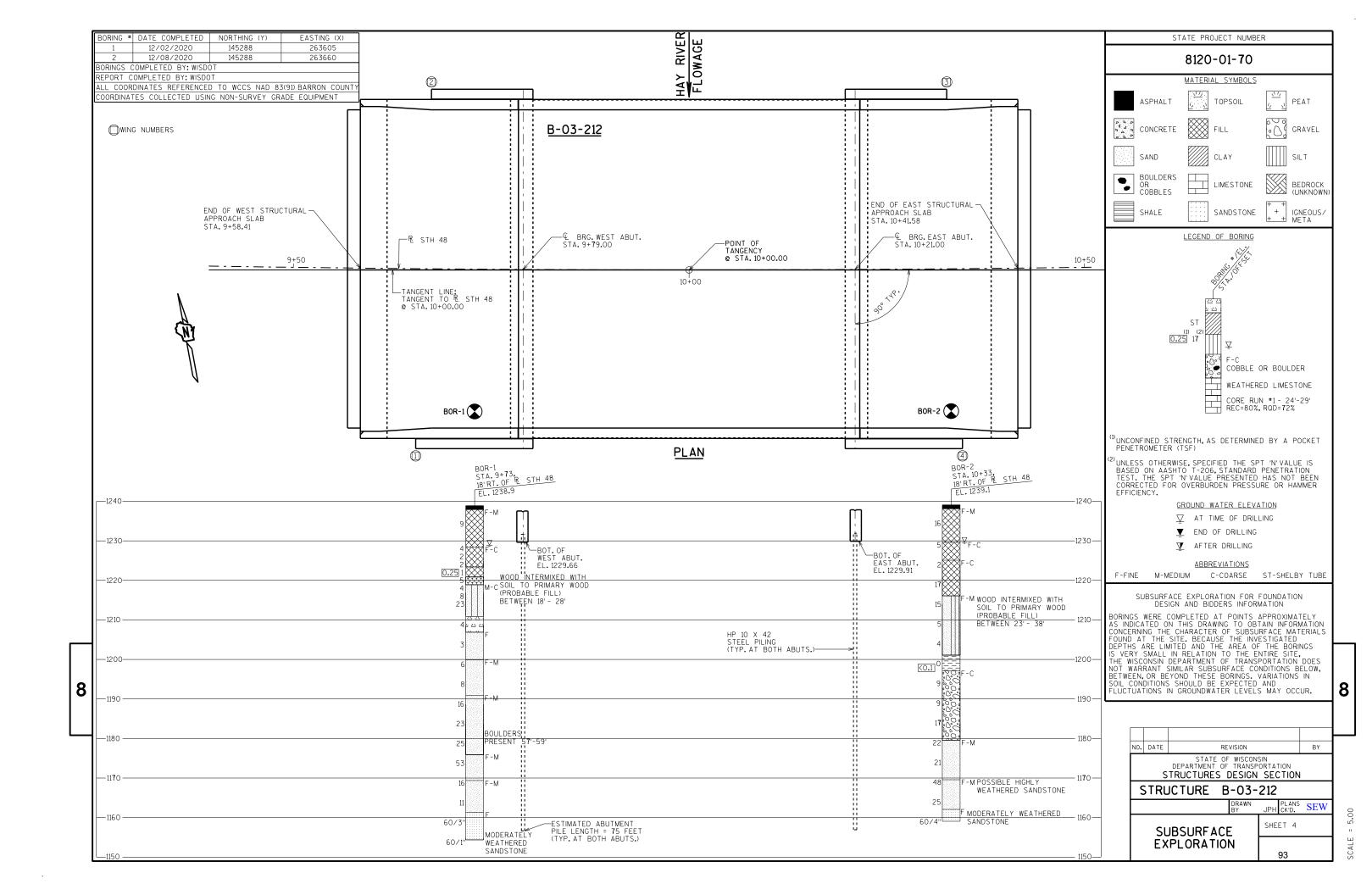


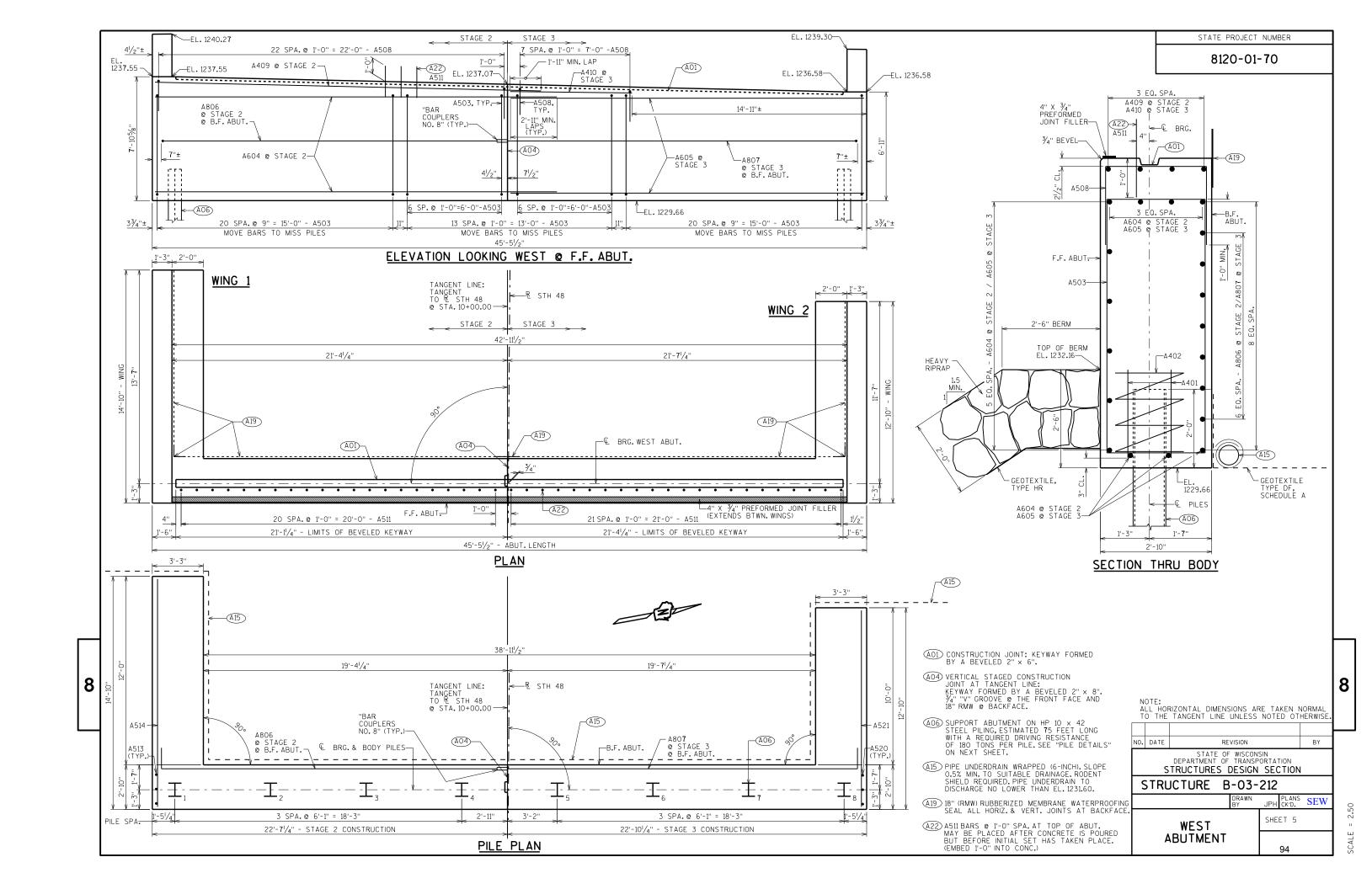
CROSS SECTION THRU STRUCTURE
LOOKING EAST

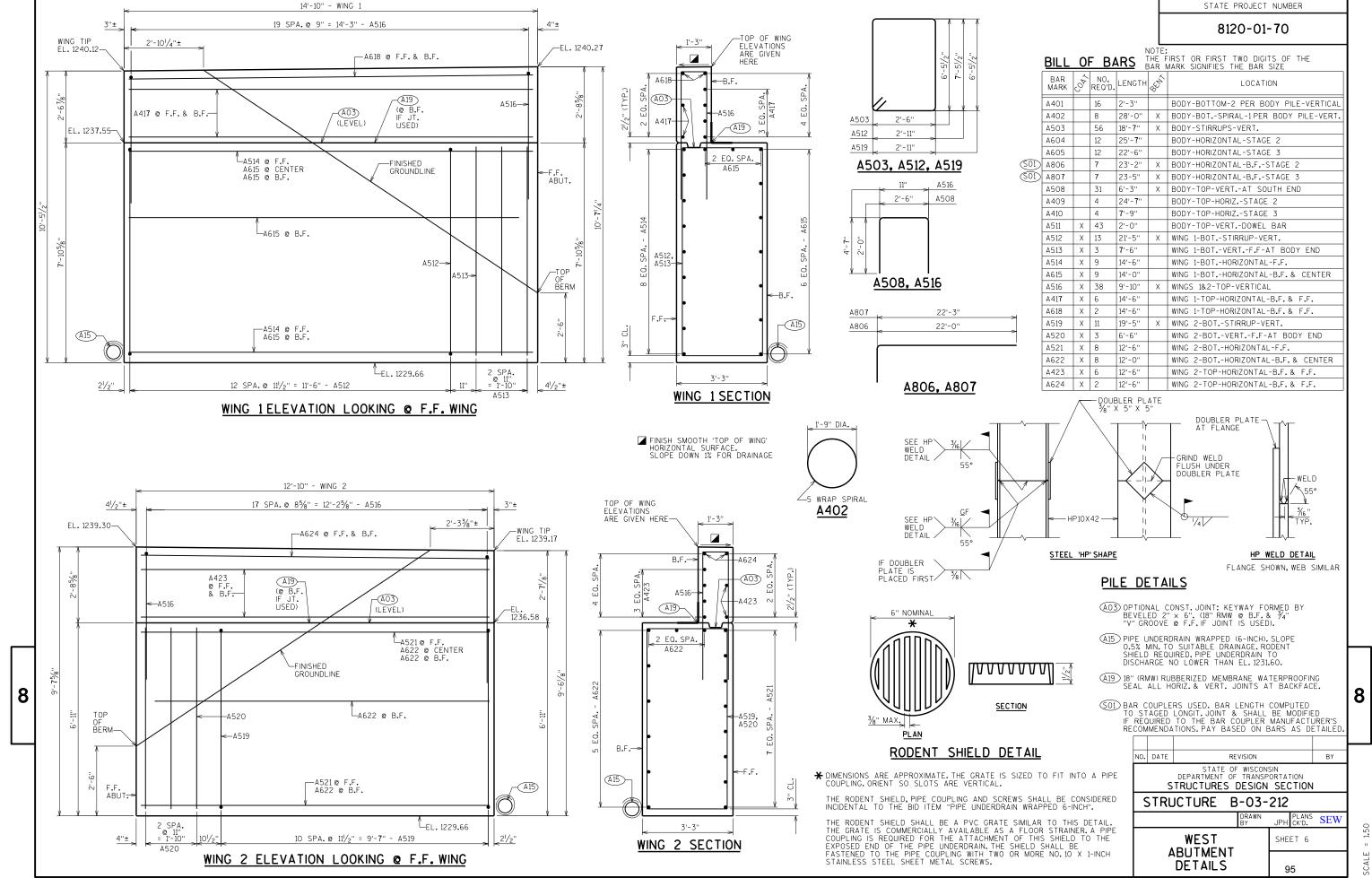
LOOKING LAST

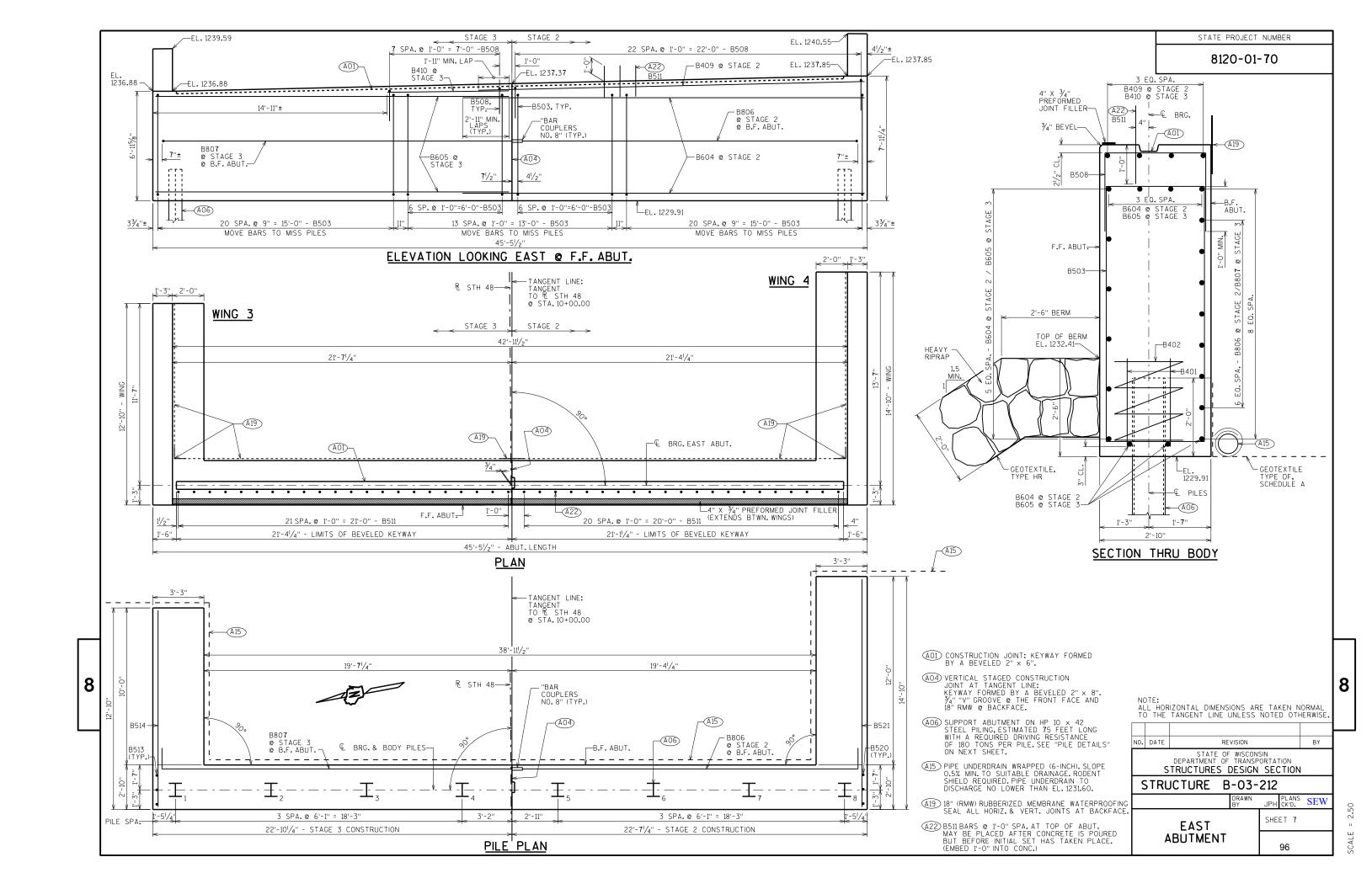
NO.	DATE	RE	VISION			BY							
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION													
5	STRUCTURE B-03-212												
			DRAWN BY	JPH	PLANS CK'D.	SEW							
	COI	NSTRUCTIO	N	SHE	ET 3								
		STAGING DETAILS			92								

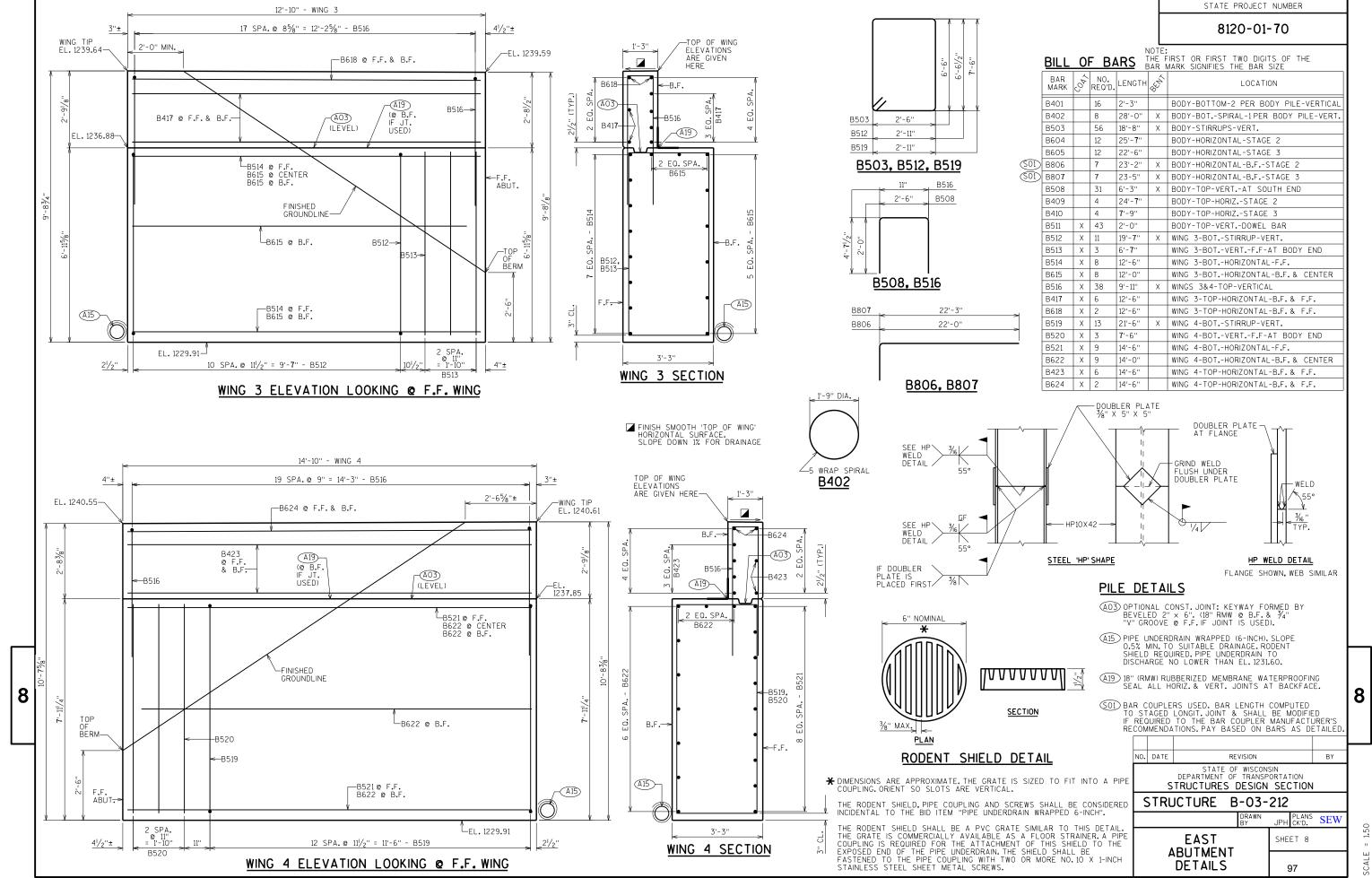
8





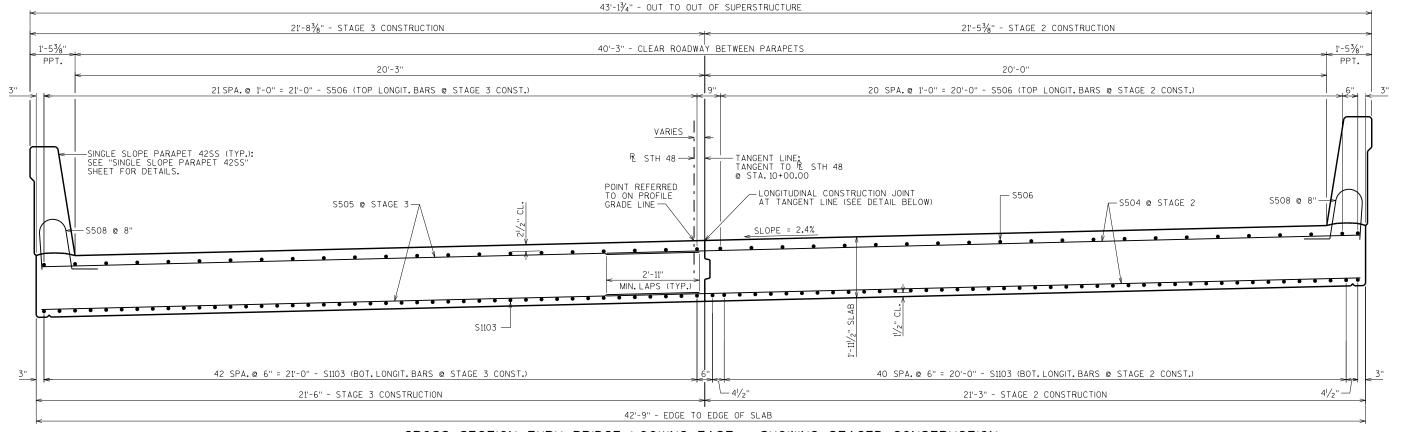




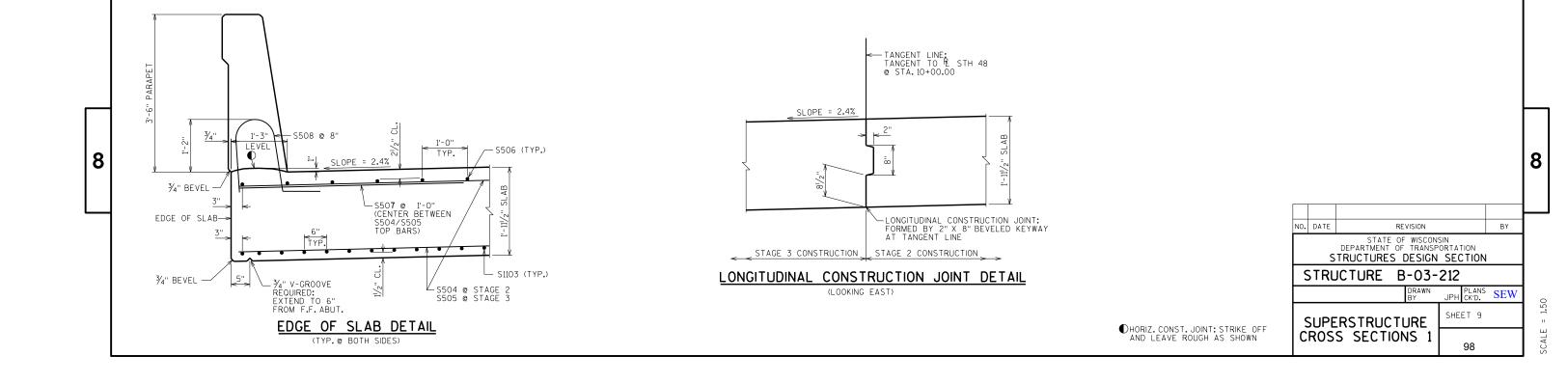


STATE PROJECT NUMBER

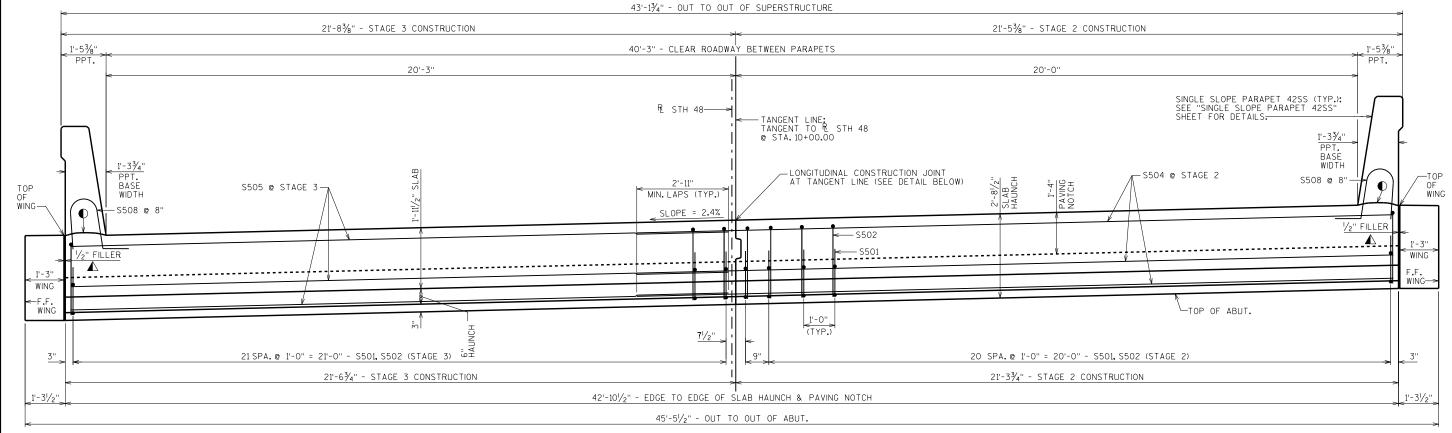
8120-01-70



CROSS SECTION THRU BRIDGE LOOKING EAST - SHOWING STAGED CONSTRUCTION



8120-01-70



CROSS SECTION THRU BRIDGE AT ABUTMENTS LOOKING EAST - SHOWING STAGED CONSTRUCTION

(EAST ABUTMENT SHOWN, WEST ABUTMENT SIMILAR - SLAB REINFORCEMENT NOT SHOWN)

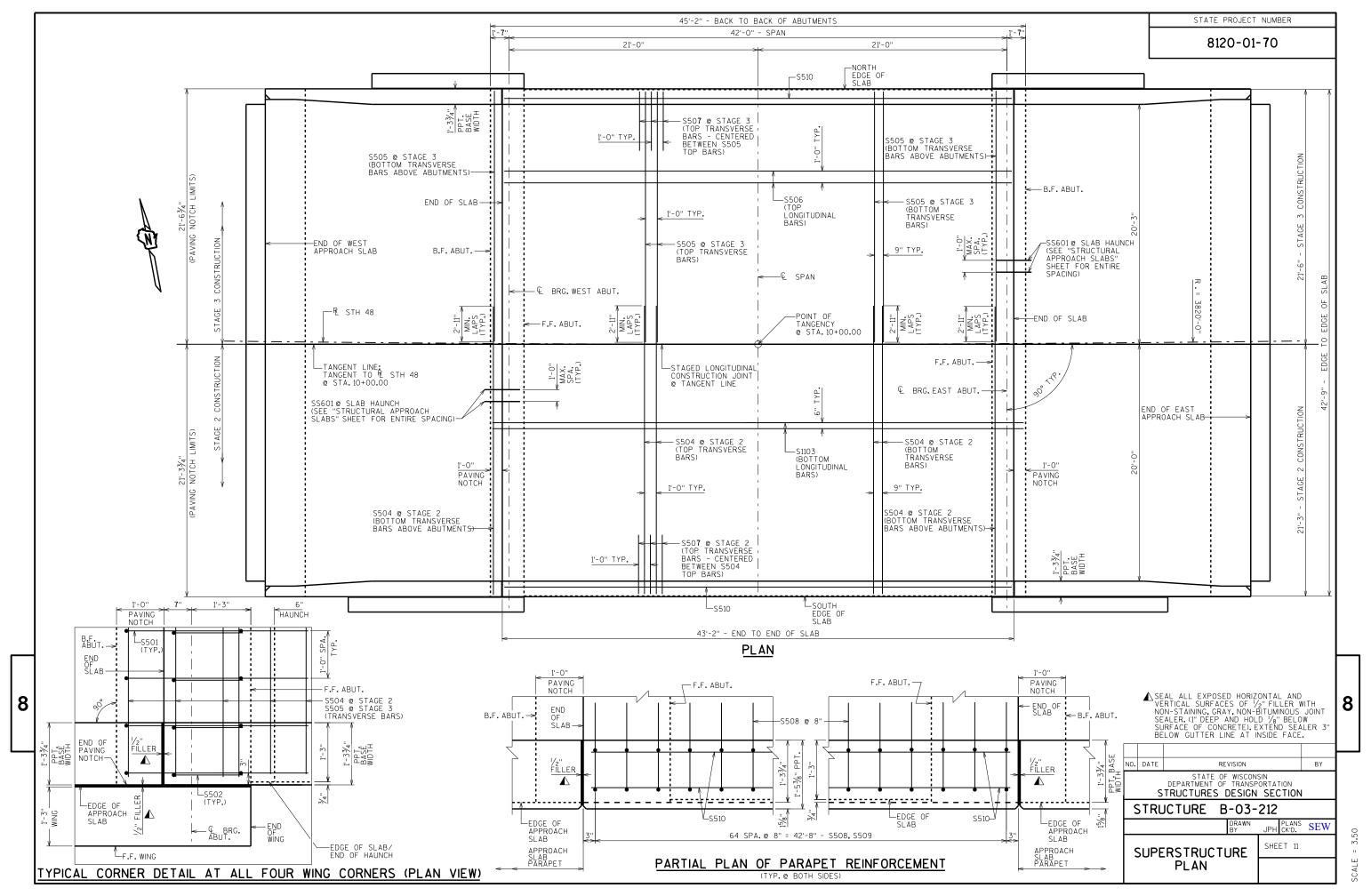
8

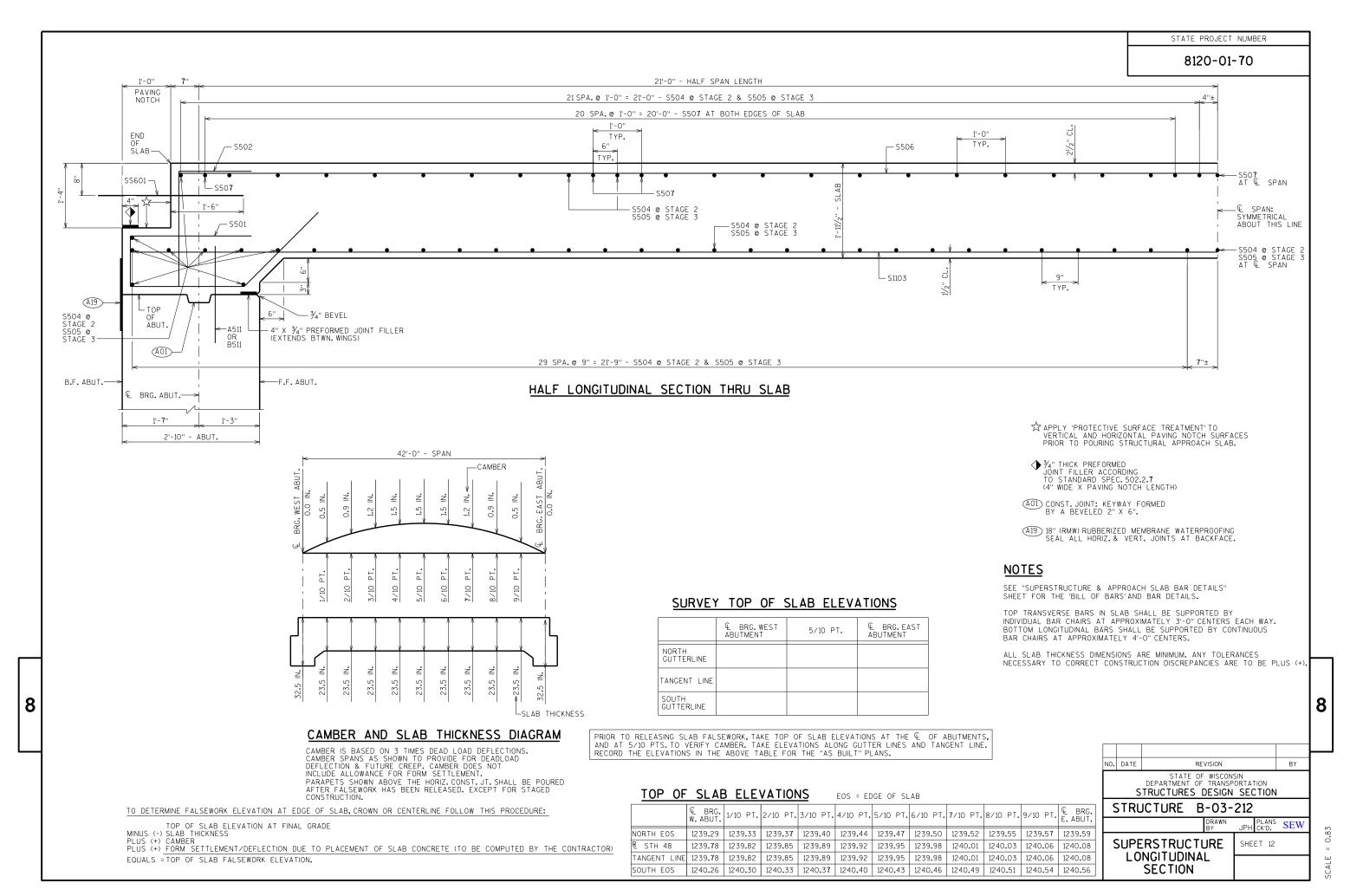
▲ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (I" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

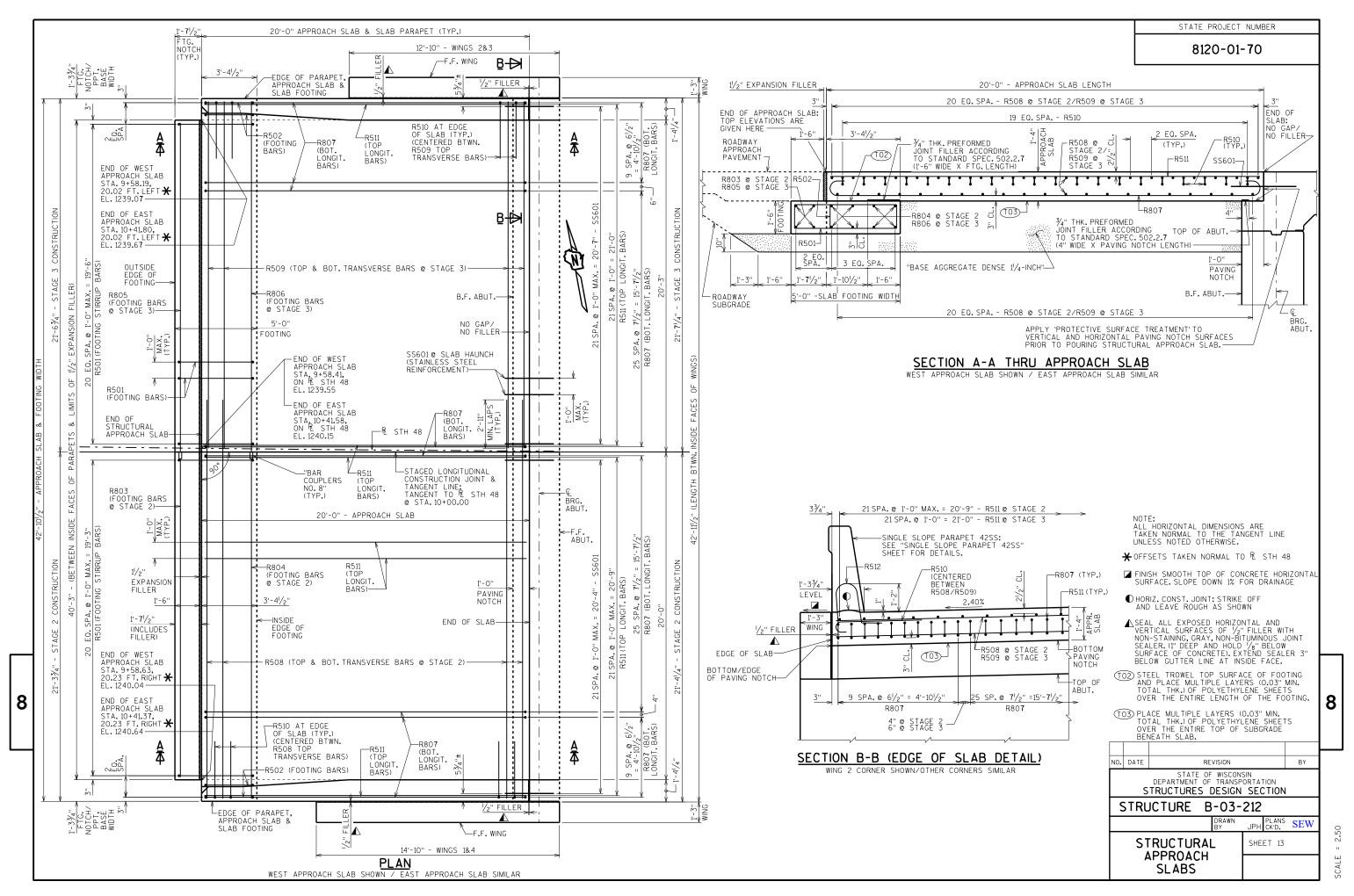
OHORIZ. CONST. JOINT: STRIKE OFF AND LEAVE ROUGH AS SHOWN

NO.	DATE	RE	VISION		BY						
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION											
S	TRL	JCTURE B	-03-	212							
			DRAWN BY	JPH CK'D.	SEW						
SUPERSTRUCTURE SHEET 10											
CROSS SECTION 2											

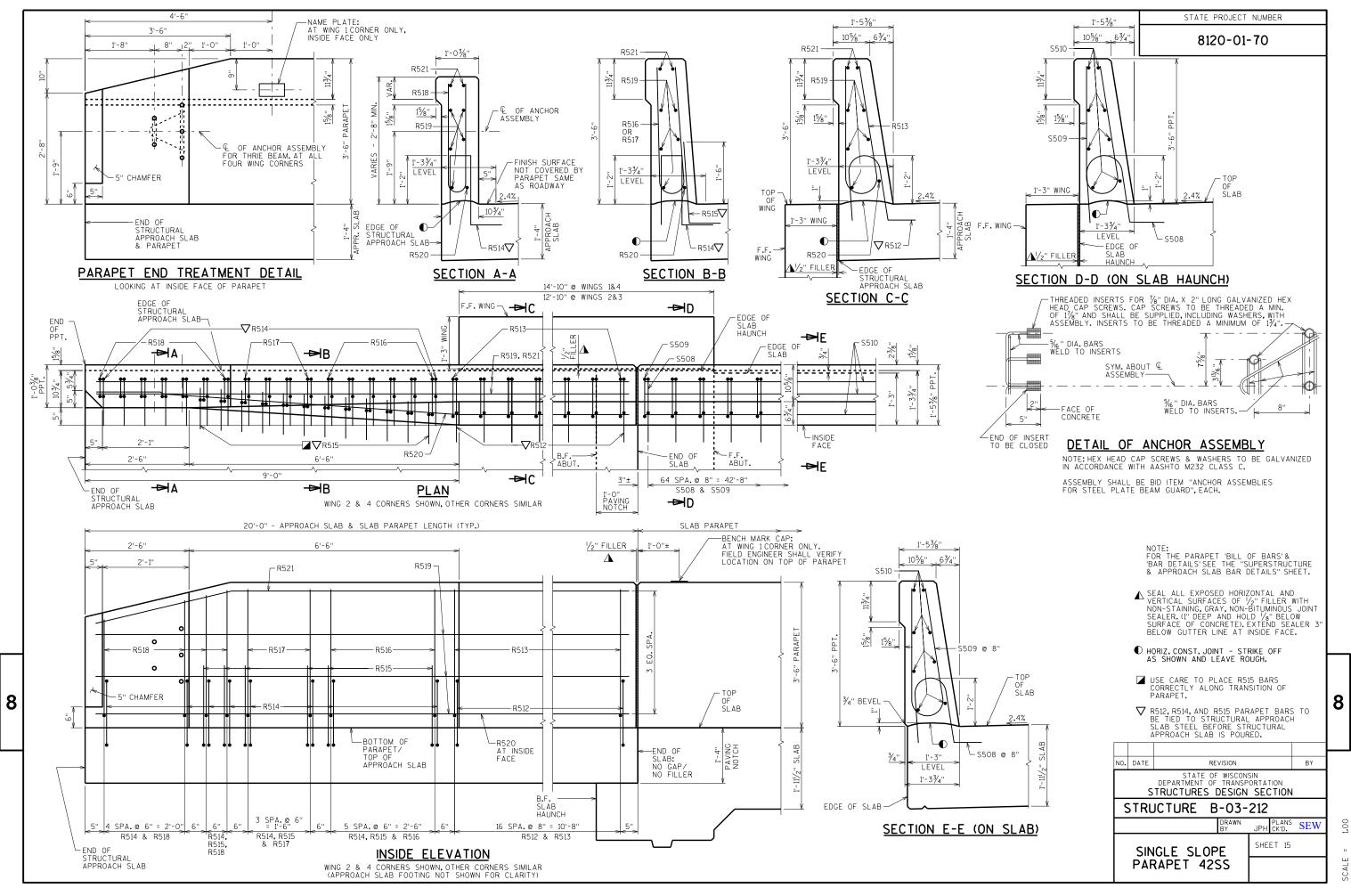
SCALE = 1.50



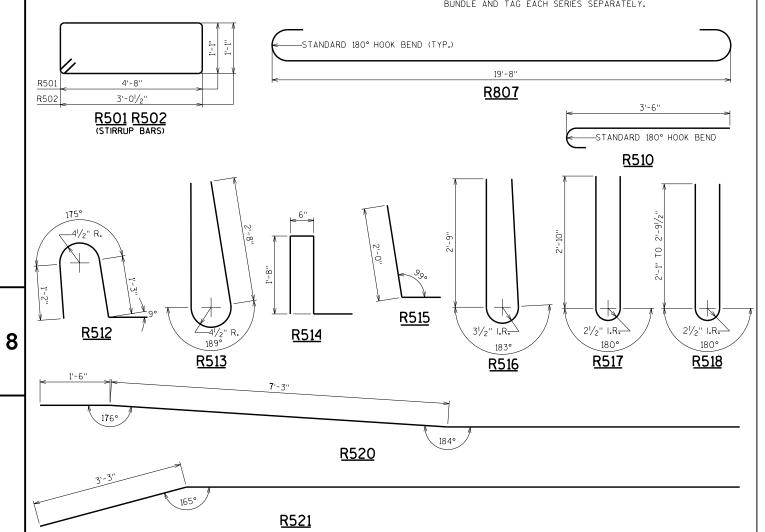




STATE PROJECT NUMBER 8120-01-70 43'-13/4" - OUT TO OUT OF PARAPETS 21'-83/8" - STAGE 3 CONSTRUCTION 21'-53/8" - STAGE 2 CONSTRUCTION 40'-3" - CLEAR ROADWAY BETWEEN PARAPETS PPT. 20'-3" 20'-0" VARIES -SINGLE SLOPE PARAPET 42SS (TYP.): SEE "SINGLE SLOPE PARAPET 42SS" SHEET FOR DETAILS. 1'-3¾'' PPT. BASE WIDTH -TANGENT LINE: TANGENT TO RESTH 48 @ STA.10+00.00 R STH 48→ POINT REFERRED TO ON PROFILE GRADE LINE 1'-33/4'' -LONGITUDINAL CONSTRUCTION JOINT AT TANGENT LINE (SEE DETAIL BELOW) PPT. BASE WIDTH SLOPE = 2.4% ## PILLER ★
BETWEEN APPROACH SLABS
& INSIDE FACE OF WINGS WING 1'-3" ¹/₂" FILLER ▲ BETWEEN APPROACH SLABS & INSIDE FACE OF WINGS WING -(TO3)(UNDER SLAB) —"BASE AGGREGATE DENSE 11/4-INCH" (ABOVE FOOTING)(TO2)-1'-33/4 40'-FTG. NOTCH FTG. NOTCH $21'-6\frac{3}{4}$ " - STAGE 3 CONSTRUCTION 21'-33/4" - STAGE 2 CONSTRUCTION 1'-31/2" 42'-101/2" - EDGE TO EDGE OF APPROACH SLAB & FOOTING $1'-3^{1}/2'$ 45'-51/2'' - OUT TO OUT OF ABUT. 3'-3" WING WING CROSS SECTION THRU APPROACH SLAB LOOKING EAST - SHOWING STAGED CONSTRUCTION -F.F. WING F.F. WING-(REINFORCEMENT NOT SHOWN) (102) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0,03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE LENGTH OF THE FOOTING. - TANGENT LINE: TANGENT TO R STH 48 @ STA.10+00.00 8 2.4% TO3 PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE BENEATH SLAB. NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION OHORIZ. CONST. JOINT: STRIKE OFF AND LEAVE ROUGH AS SHOWN -LONGITUDINAL CONSTRUCTION JOINT: FORMED BY 1½" X 2" BEVELED KEYWAY EAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE. STRUCTURE B-03-212 JPH PLANS SEW _ STAGE 3 CONSTRUCTION _ STAGE 2 CONSTRUCTION _ STRUCTURAL SHEET 14 LONGITUDINAL CONSTRUCTION JOINT DETAIL APPROACH SLABS CROSS SECTION



NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE BILL OF BARS FOR STRUCTURAL APPROACH SLABS NO. REQUIRED. LOCATION 42 42 12'-2" FOOTING-VERTICAL-LONGITUDINAL-STIRRUP BAR-BETWEEN PARAPETS R501 R502 FOOTING-VERTICAL-LONGITUDINAL-STIRRUP BAR-AT ENDS ONLY 4 4 8'-11" (S01) R803 FOOTING-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-AT OUTSIDE FACE-STAGE 2 19'-10' 4 4 R804 FOOTING-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-AT INSIDE FACE-STAGE 2 8 8 21'-2" R805 FOOTING-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-AT OUTSIDE FACE-STAGE 3 4 4 20'-1" (\$01) R806 FOOTING-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-AT INSIDE FACE-STAGE 3 8 8 21'-5" 72 72 21'-6" SLAB-BOTTOM-VERTICAL-LONGITUDINAL R508 42 42 24'-4" SLAB-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-STAGE 2 R509 42 42 21'-2" SLAB-TOP & BOTTOM-HORIZONTAL-TRANSVERSE-STAGE 3 SLAB-TOP-VERTICAL-TRANSVERSE-AT BOTH EDGES R510 40 40 4'-1" R511 44 44 19'-8" SLAB-TOP-HORIZONTAL-LONGITUDINAL 34 34 R512 4'-5" PARAPETS/SLAB-VERTICAL-TRANSVERSE-AT ALL FOUR PPT.ENDS 34 34 6'-8" X PARAPETS-VERTICAL-TRANSVERSE-AT ALL FOUR PPT.ENDS R513 34 34 4'-4" PARAPETS/SLAB-VERTICAL-TRANSVERSE-AT ALL FOUR PPT.ENDS R515 24 24 2'-9" PARAPETS/SLAB-INSIDE FACE-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS R516 PARAPETS-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS 12 | 12 | 6'-6" PARAPETS-END-VERTICAL-TRANSVERSE-AT ALL FOUR PPT.ENDS R517 6'-5" 8 8 R518 PARAPETS-END TAPER-VERTICAL-TRANSVERSE-AT ALL FOUR PPT. ENDS 14 14 5'-8" PARAPETS-BOTH FACES-HORIZONTAL-LONGITUDINAL-AT ALL FOUR PPT.ENDS R519 10 10 19'-6" PARAPETS-BOT.-INSIDE FACE-HORIZONTAL-LONGITUDINAL-AT ALL FOUR PPT.ENDS R520 2 2 19'-6" 19'-6" PARAPETS-TOP-BOTH FACES-VERTICAL-LONGITUDINAL-AT ALL FOUR PPT. ENDS ⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL BAR LENGTHS. BAR SERIES TABLE BAR MARK TOTAL BAR LENGTH REQUIRED (\$01) BAR COUPLERS USED. BAR LENGTH COMPUTED TO STACED LONGITUDINAL CONSTRUCTION JOINT AND SHALL BE MODIFIED IF REQUIRED TO THE BAR COUPLER MANUFACTURER'S RECOMMENDATIONS. 4 SERIES OF 7 BARS 4'-11" TO 6'-4" R518 PAY BASED ON BARS AS DETAILED. BUNDLE AND TAG EACH SERIES SEPARATELY. -STANDARD 180° HOOK BEND (TYP.) 19'-8" 4'-8" R807 R502 3'-01/2' R501 R502 (STIRRUP BARS) R510



BILL OF BARS FOR SUPERSTRUCTURE

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	1805	NO. REQ'D.	LENGTH	SENT.	LOCATION
S501	Х	88	7'-9"	Х	SLAB HAUNCH-BOTTOM-LONGITUDINAL-VERTICAL-AT BOTH ENDS OF SLAB
S502	Х	88	3'-9"	Х	SLAB HAUNCH-TOP-LONGITVERTAT BOTH ENDS OF SLAB
S1103	Х	86	44'-10"		SLAB-BOTLONGITHORIZONTAL
S504	Х	111	24'-3"		SLAB & SLAB HAUNCH-TOP & BOTTRANSVERSE-HORIZONTAL-STAGE 2
S505	Χ	111	21'-2"		SLAB & SLAB HAUNCH-TOP & BOTTRANSVERSE-HORIZONTAL-STAGE 3
S506	Х	44	42'-10"		SLAB-TOP-LONGITHORIZONTAL
S50 7	Х	86	5'-0"		SLAB-TOP-TRANSVERSE-HORIZAT BOTH EDGES OF SLAB
S508	Х	130	4'-5"	Х	PARAPETS/SLAB-VERTICAL-TRANSVERSE-AT BOTH SIDES
S509	Х	130	6'-8"	Х	PARAPETS-VERTICAL-TRANSVERSE-AT BOTH SIDES
S510	Χ	16	42'-10"		PARAPETS-BOTH FACES-HORIZLONGITAT BOTH SIDES

STAINLESS STEEL REINFORCEMENT

88 3'-0" SLAB HAUNCH/APPROACH SLAB-HORIZ,-LONGIT,-AT PAVING NOTCHES

S501 S508 S509 S502

> NO. DATE BY REVISION STATE OF WISCONSIN
> DEPARTMENT OF TRANSPORTATION
> STRUCTURES DESIGN SECTION STRUCTURE B-03-212 JPH CK'D. SEW SUPERSTRUCTURE SHEET 16 & APPROACH SLAB BAR DETAILS

STATE PROJECT NUMBER

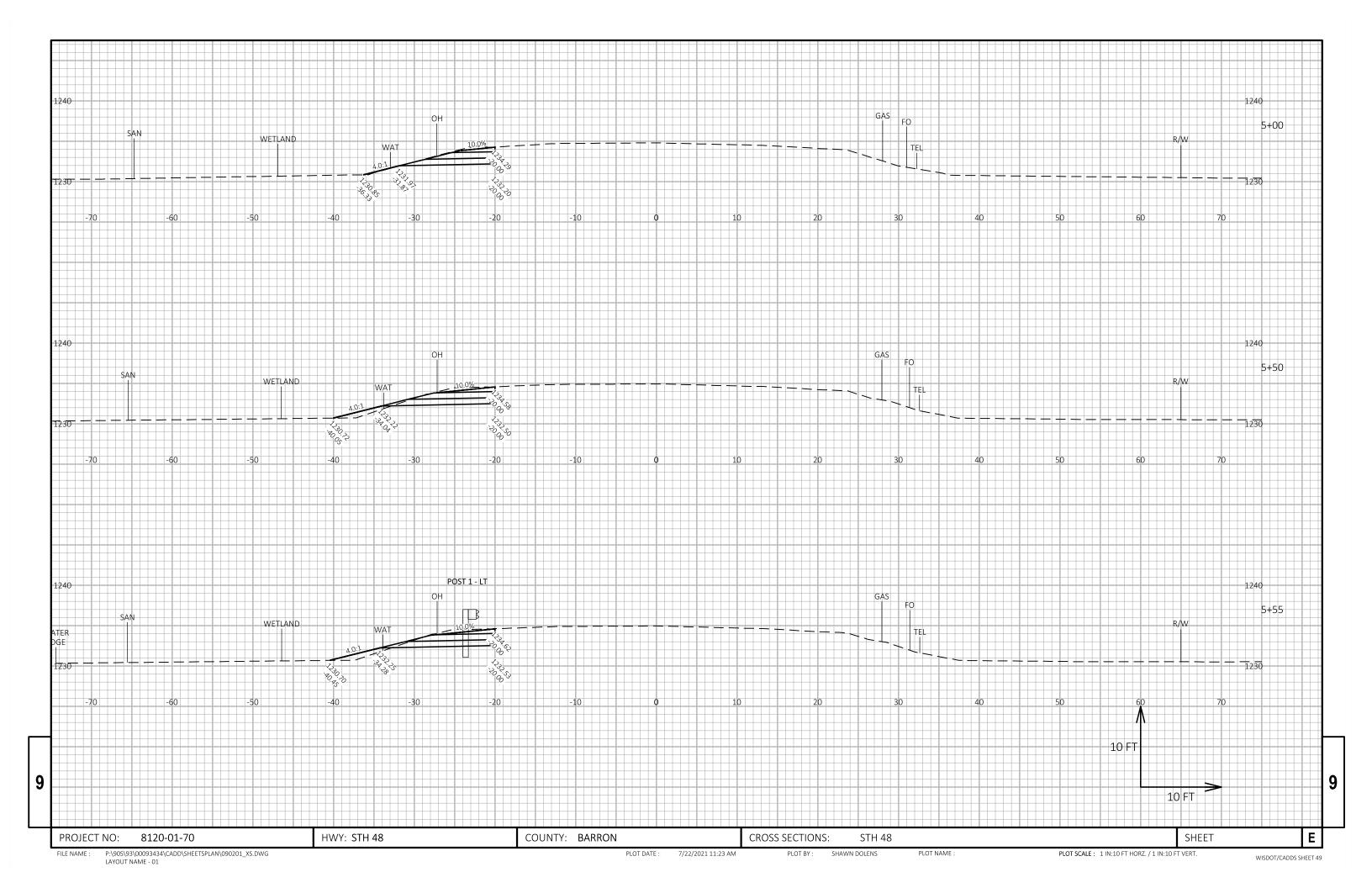
8120-01-70

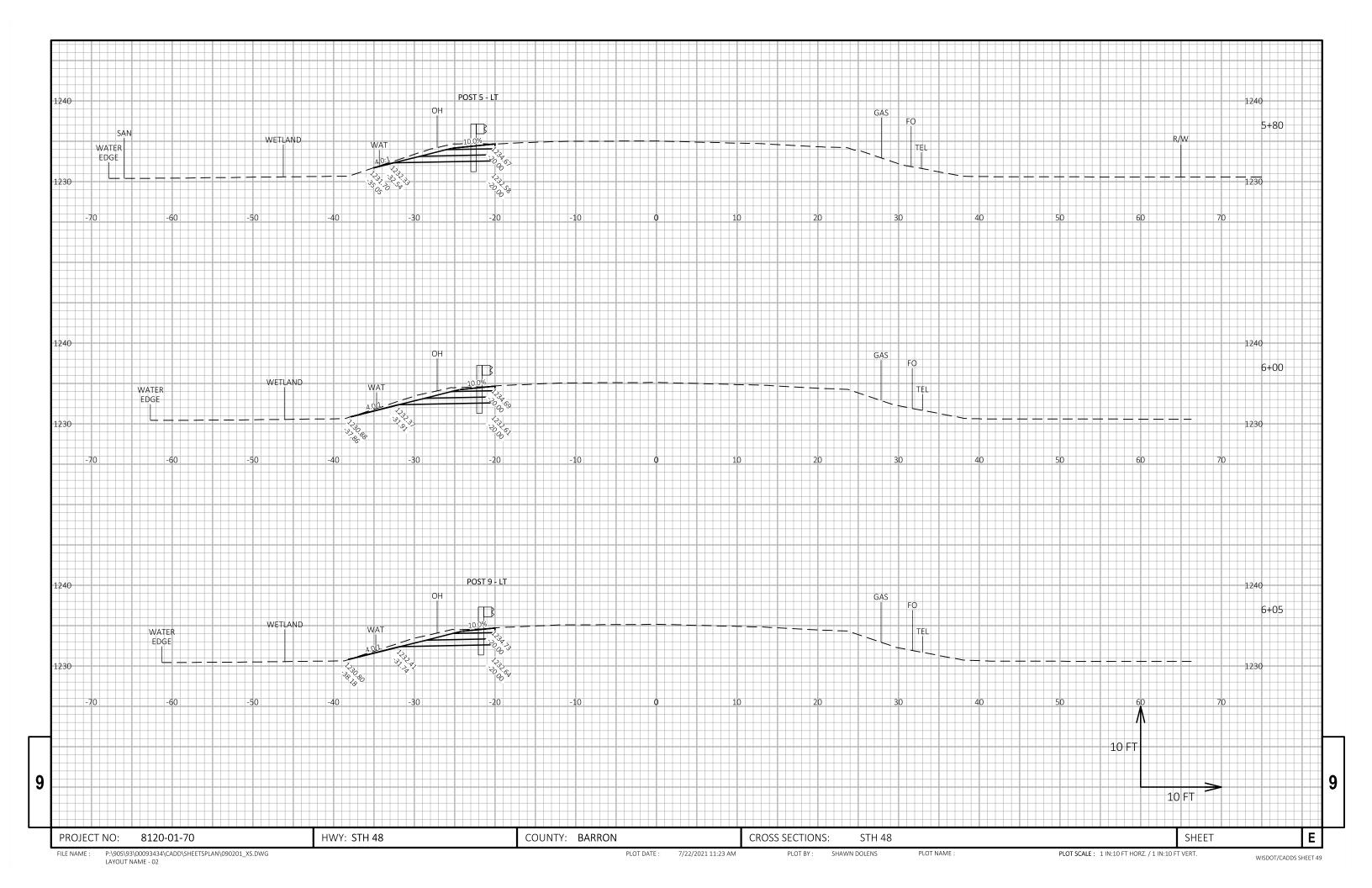
<u>Station</u>	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	<u>Fill</u> Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
5+00.00	16.07	0	0	0.29	0	0	0	0	0
5+50.00	19.26	32.71	32.71	2.98	3.02	32.71	32.71	3.02	29.69
6+05.25	20.44	40.62	40.62	0	3.04	73.33	73.33	6.06	67.27
6+63.00	54.57	80.22	80.22	20.63	3.55	153.55	153.55	9.76	143.79
7+00.00	49.57	71.36	71.36	4.38	5.27	224.91	224.91	15.31	209.77
7+50.00	44.22	86.84	86.84	3.37	7.18	311.75	311.75	22.31	289.44
8+00.00	32.5	71.03	71.03	0.11	3.22	382.78	382.78	25.53	357.25
8+50.00	10.66	39.97	39.97	8.76	8.21	422.75	422.75	33.75	389
9+00.00	3.03	12.68	12.68	34.03	39.62	435.43	435.43	73.37	362.06
9+50.00	6.73	9.04	9.04	13.46	43.97	444.47	444.47	117.34	327.13
9+72.00	24.78	12.84	12.84	3.56	6.93	457.3	457.3	124.27	333.03
10+28.00	36.18	63.23	63.23	0	3.69	520.53	520.53	127.96	392.57
10+50.00	5.46	16.97	16.97	21.92	8.93	537.5	537.5	136.89	400.6
11+00.00	1.94	6.86	6.86	51.17	67.68	544.35	544.35	204.57	339.78
11+50.000	6.11	7.45	7.45	49.2	92.93	551.81	551.81	297.51	254.3
12+00.000	5.3	10.57	10.57	53.74	95.31	562.37	562.37	392.82	169.55
12+50.000	13.23	17.16	17.16	18.24	66.65	579.53	579.53	459.47	120.07
13+00.000	29.03	39.13	39.13	3.03	19.7	618.67	618.67	479.16	139.5
13+28.000	19.55	25.19	25.19	7.98	5.71	643.85	643.85	484.88	158.98
						-457.3		-124.27	
						186.55		360.61	

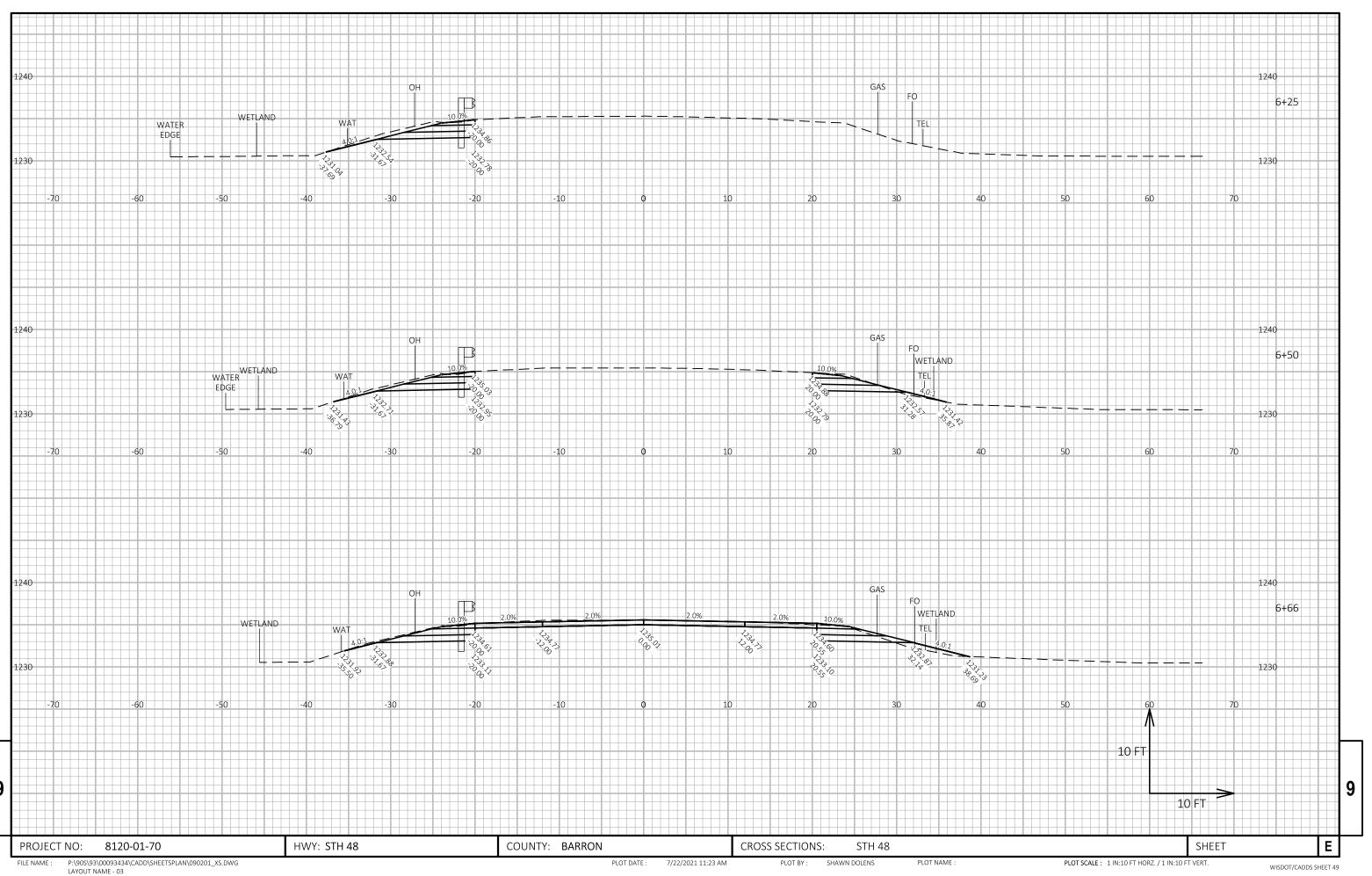
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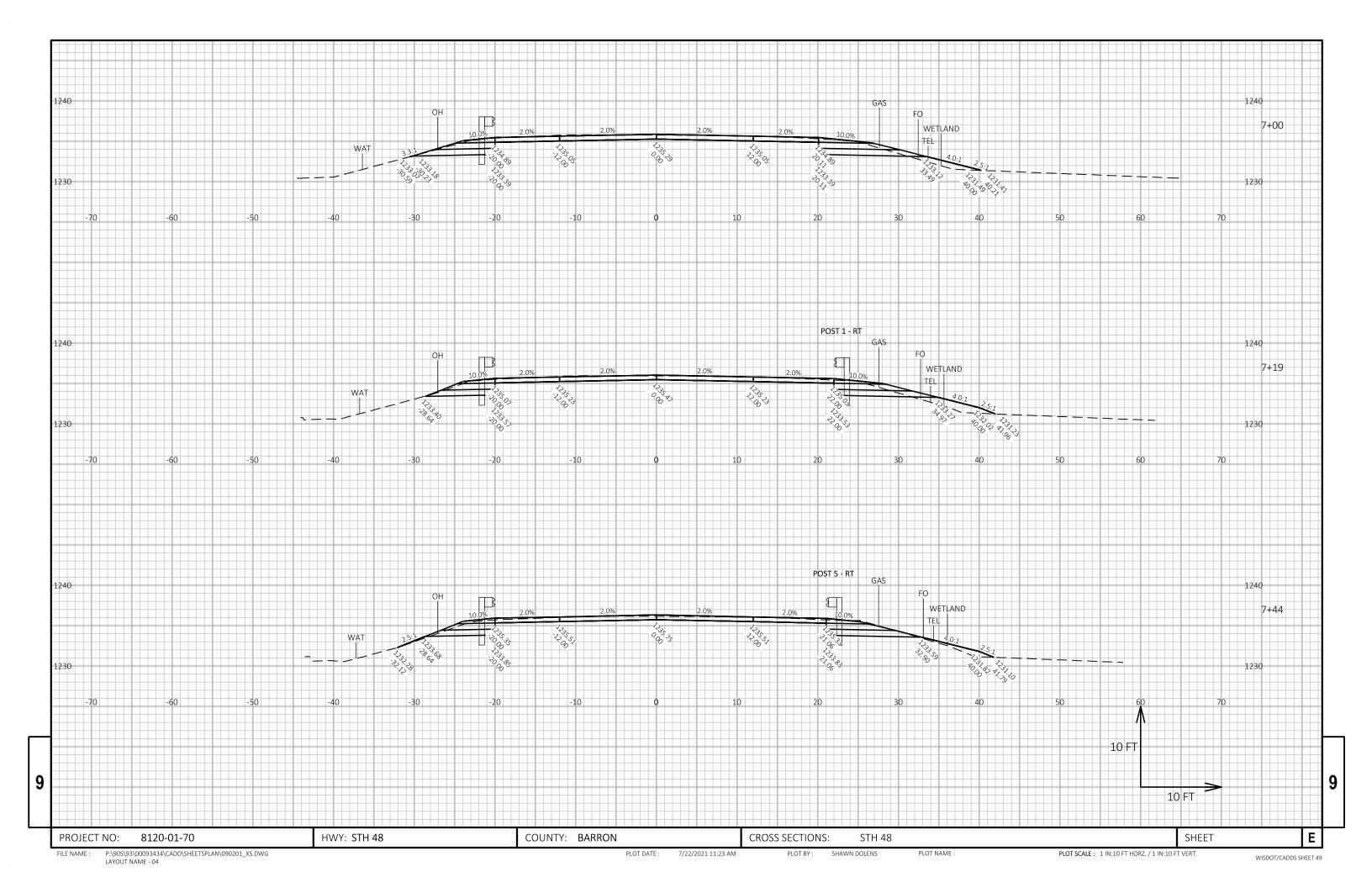
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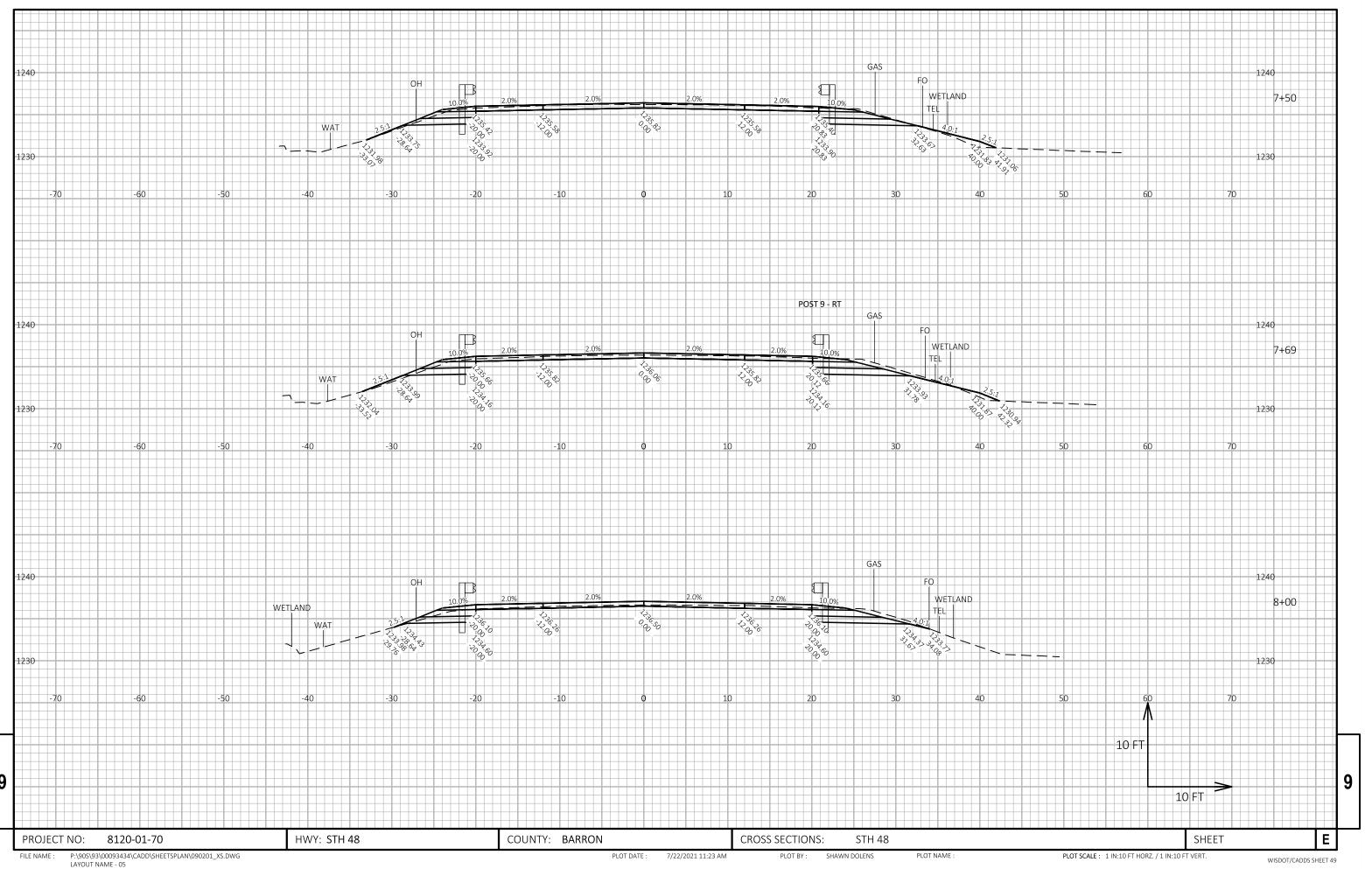
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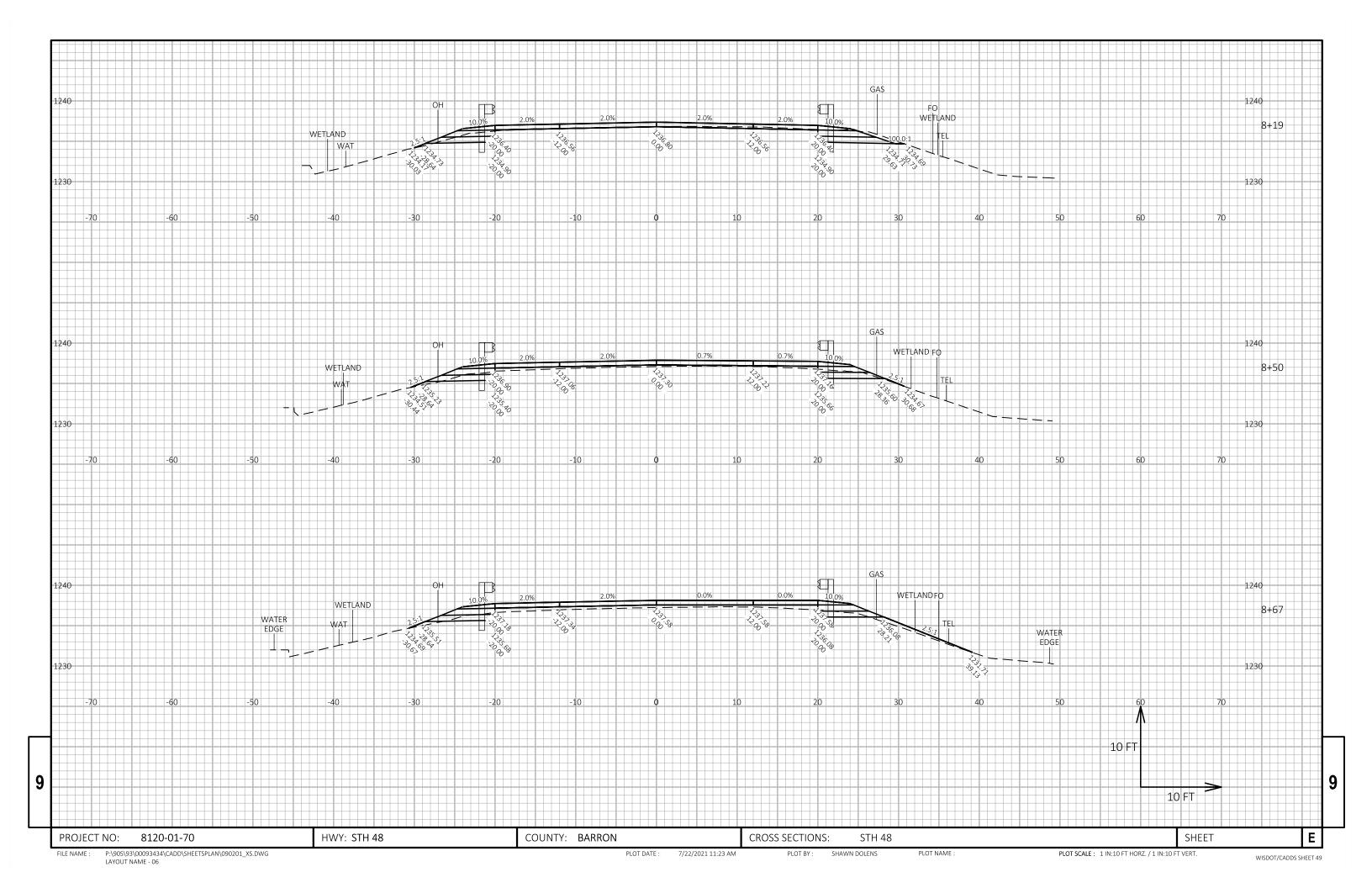


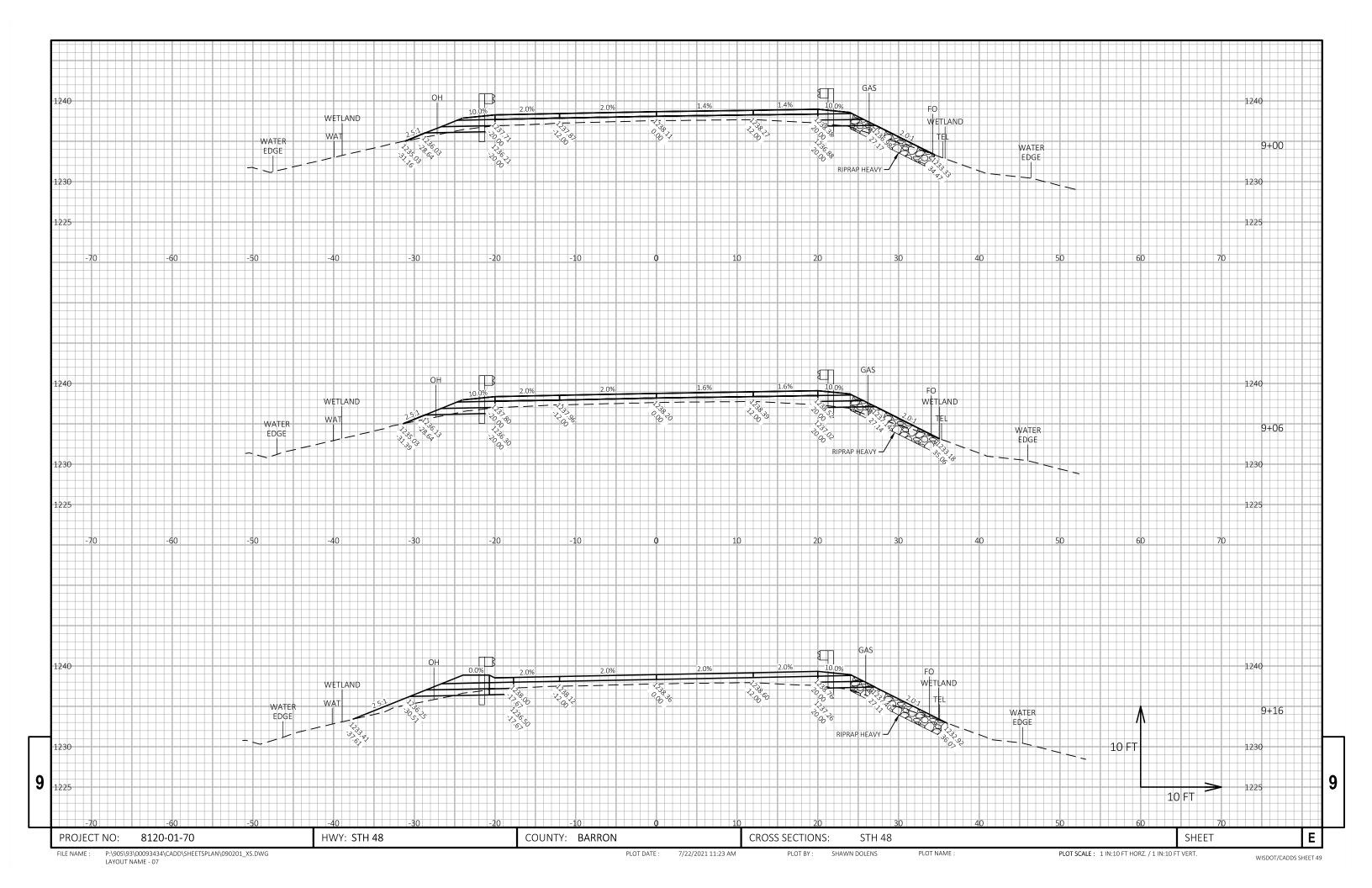


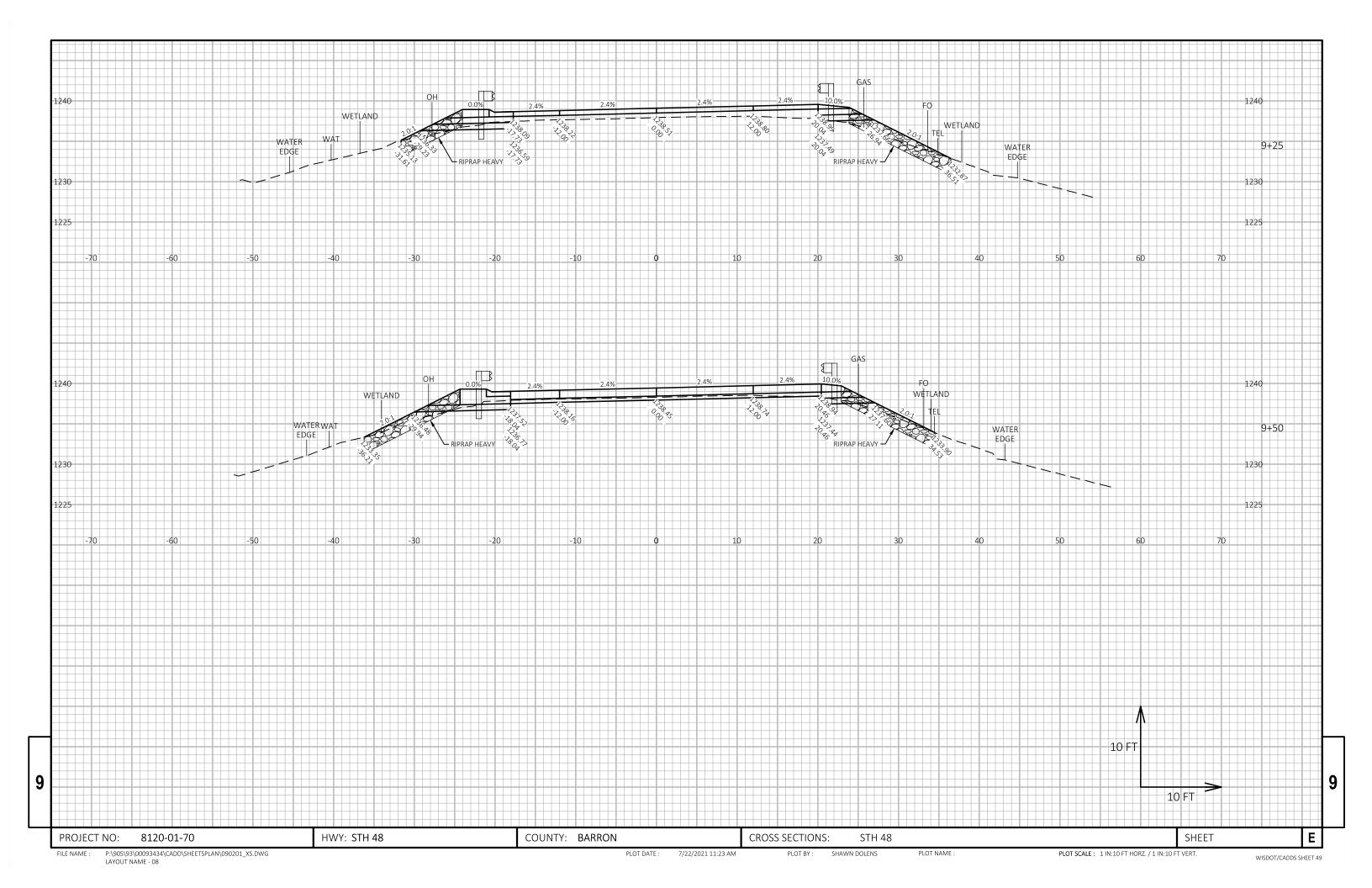


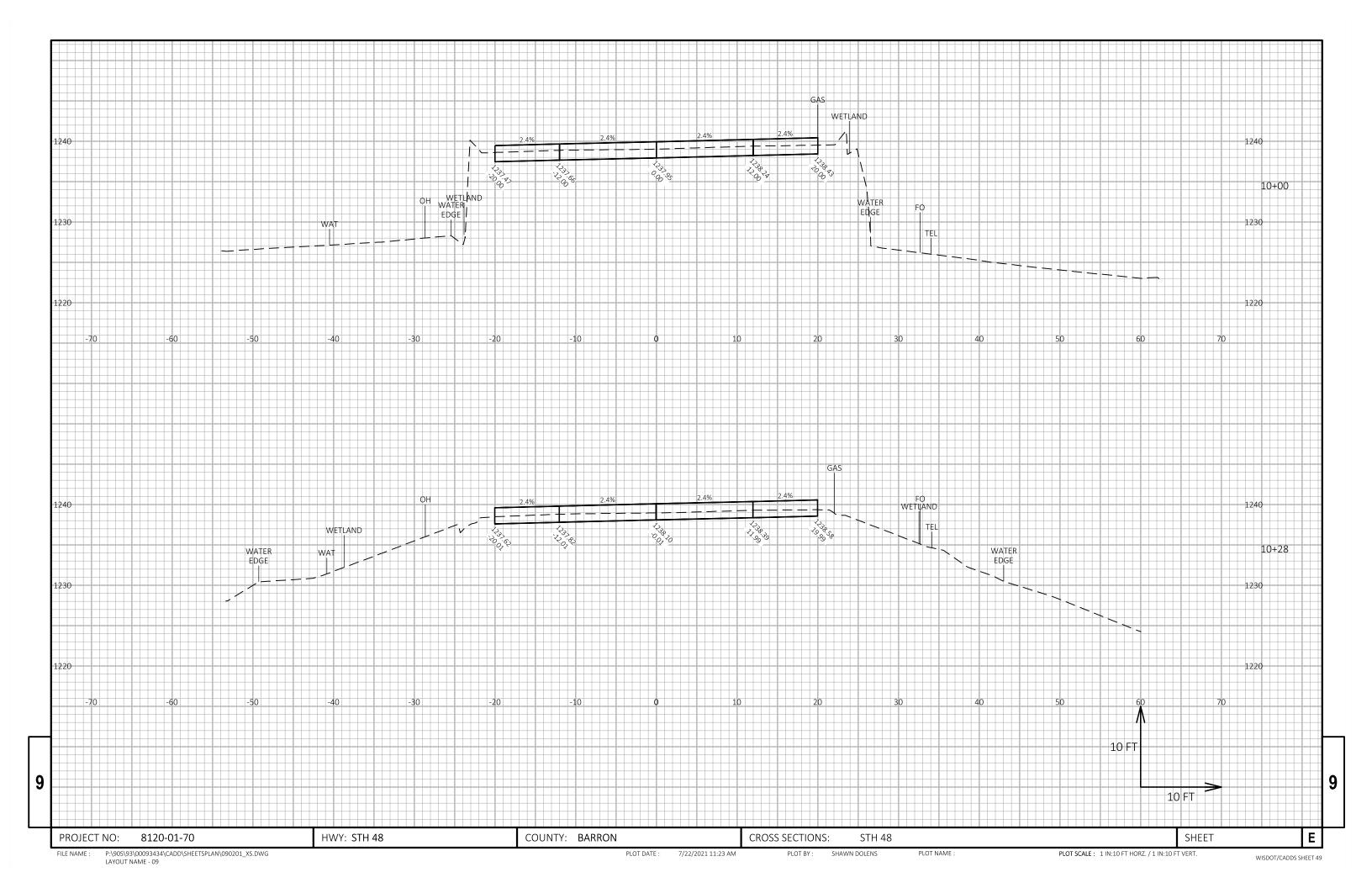


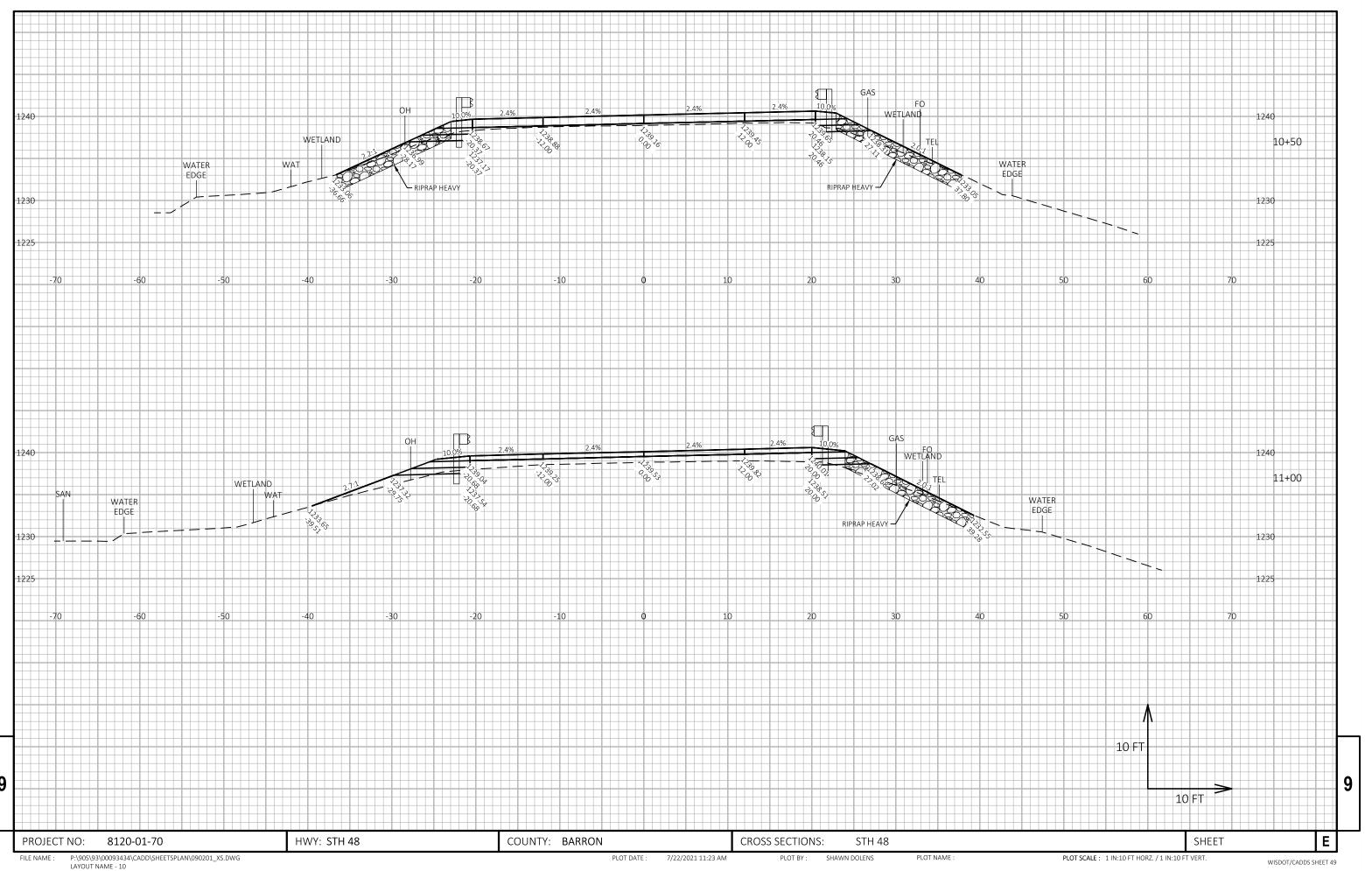


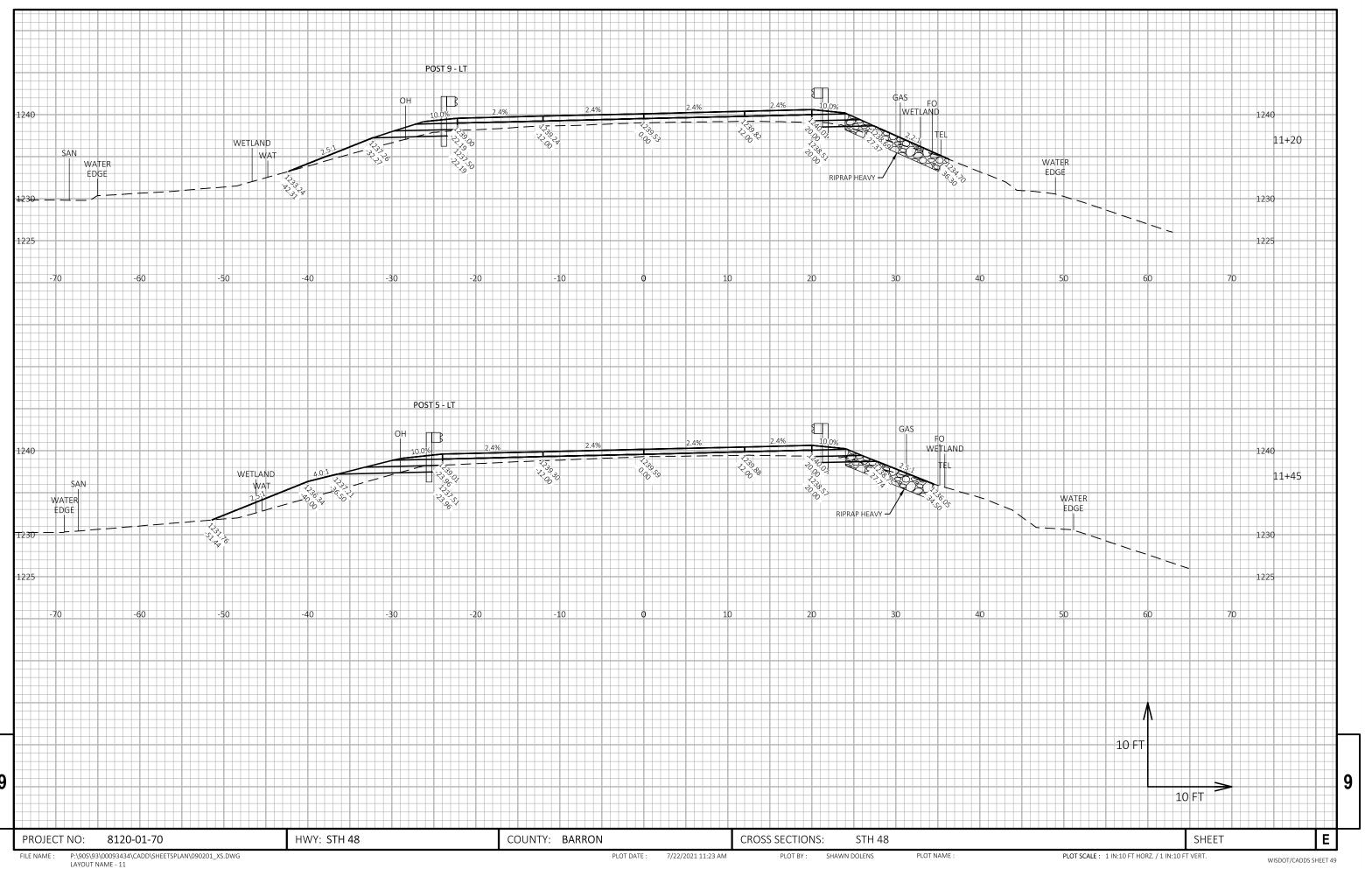


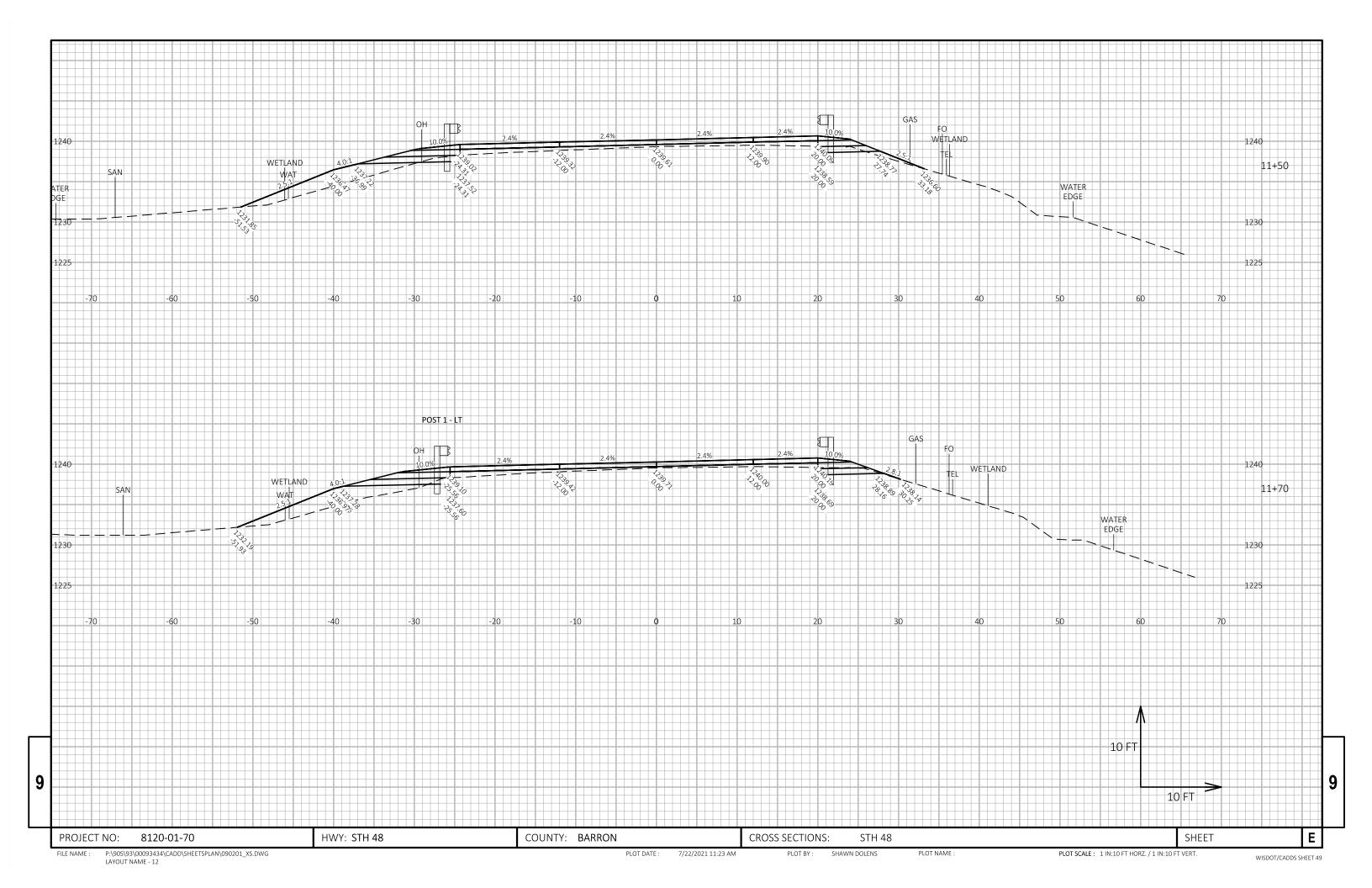


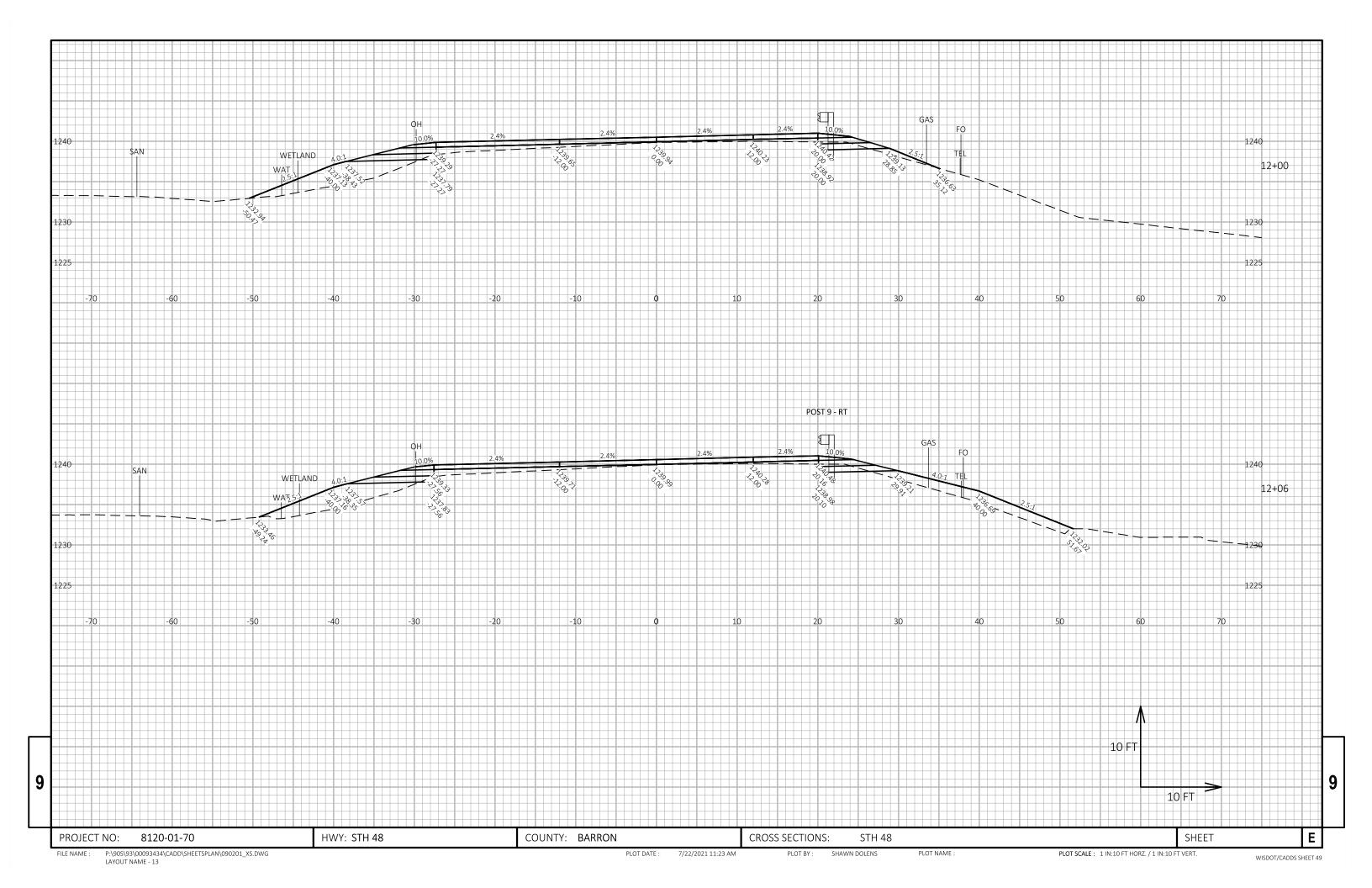


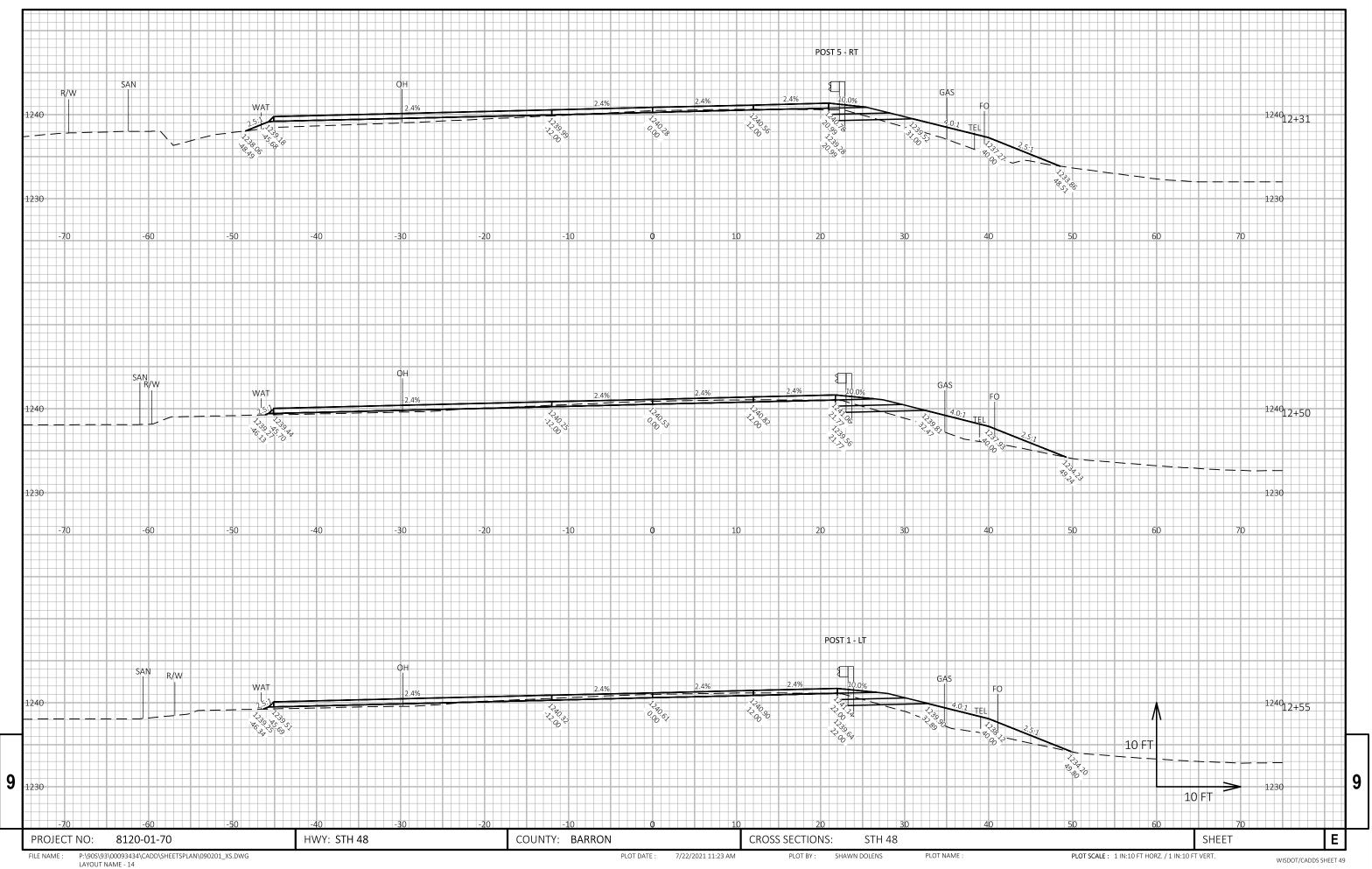


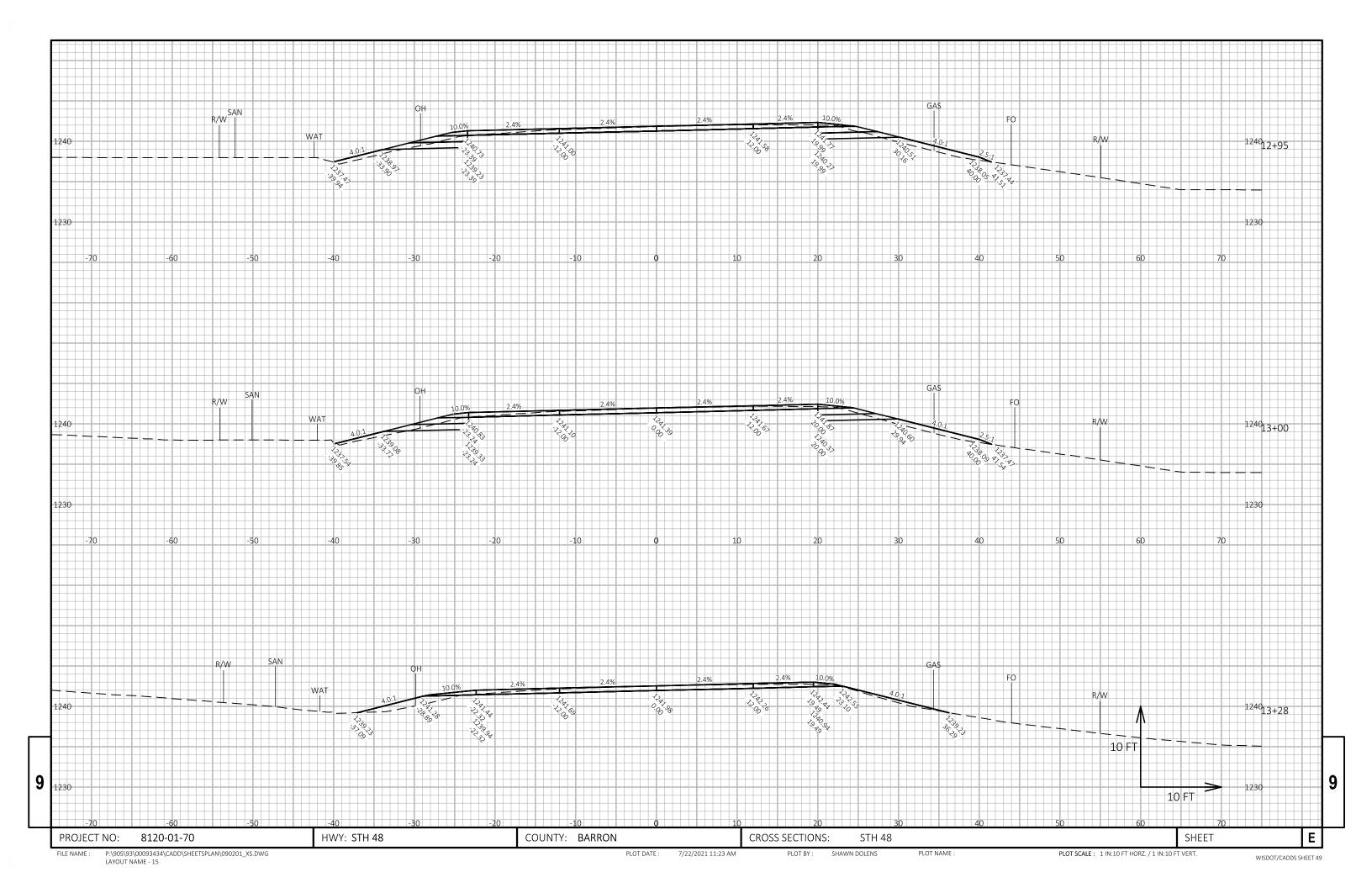


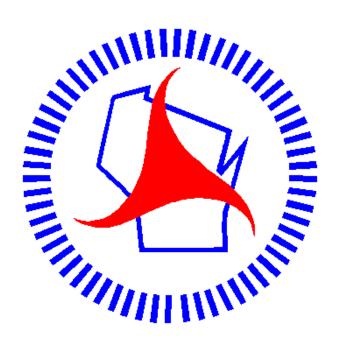












Wisconsin Department of Transportation

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