PROJECT ID: WITH: 7281-00-74 N

1-00-73

EAU

ORDER OF SHEETS Section No. Section No. 2 Section No. 3 Section No. 3 Section No Section No. 5 Section No. 6 Section No. Section No. Ô Section No.

MARCH 2022

Estimate of Quantities Miscellaneous Quantities inht of Way Pla Plan and Profile Standard Detail Drawings Sign Plates Structure Plans Section No. **Cross Sections**

TOTAL SHEETS = 48



DESIGN DESIGNATION

A.A.D.T.	2022	=	90
A.A.D.T.	2042	=	100
D.H.V.		=	10
D.D.		=	50/50
т.		-	13% ASSUMED
DESIGN SPEED		=	40 MPH
ESALS		=	36,000

CONVENTIONAL SYMBOLS PLAN CORPORATE LIMITS <u>'//////</u> PROPERTY LINE LOT LINE -------LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT 300'EB' REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS MARSH AREA

WOODED OR SHRUB AREA

Title Typical Sections and Details Computer Earthwork Data

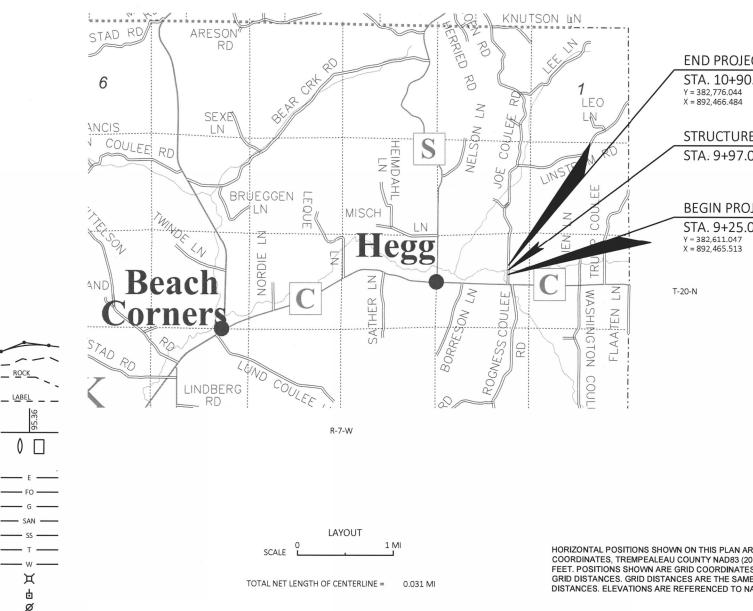
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PLAN OF PROPOSED IMPROVEMENT

TOWN OF ETTRICK, JOE COULEE ROAD

NF BEAVER CREEK BRIDGE B-61-245

LOCAL STREET **TREMPEALEAU COUNTY**

> STATE PROJECT NUMBER 7281-00-73



X:\2918800\200252.01\TECH\CAD\XXXXXX\SHEETSPLAN\010101_TI.DWG FILE NAME :

PROFILE

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER

TELEPHONE

WATER

ELECTRIC

GAS

GRADE ELEVATION

CULVERT (Profile View)

MARSH OR ROCK PROFILE

(To be noted as such)

PLOT BY :

PLOT NAME

STATE PROJECT	FEDERAL PRO	OJECT
STATE PROJECT	PROJECT	CONTRACT
7281-00-73	WISC 2022256	1
		-
	ACCEPTED F	OR
	TOWN OF ET	TRICK
	Date 10-21 John	let Janka
	Date (Signature	and Title of Official)
		/
	ACCEPTED F	OR
	COUNTY OF TREM	
		IPEALEAU
	Inter Man O	1
	Date 10 21 21 00 2	and Title of Official)
IECT 7281-00-73		,
90.00	ORIGINAL PLANS PR	EPARED BY
L L		
	Mea	n 1
RE B-61-245		M I
7.08	& lur	nt I
		IL I
	INSCON	
OJECT 7281-00-73	Windowski	
5.00		\sum
	X JAY P.	· * \
5	E-30779	
	BOTTESSIONAL	
		S.
	SONAL	EN
		Da Da
	DATE: 10/25/21 W/	y the
		Engineer Signature)
	0.0	
	STATE OF WISC	ONSIN
	DEPARTMENT OF TRAN	ISPORTATION
	PREPARED BY	×1
		AD & HUNT
		AD & HUNT
		U YANG, PE
		RONGSTAD, PE
ARE WISCONSIN COUNTY (2011), IN U.S. SURVEY	APPROVED FOR THE DEPARTMENT	
TES, GRID BEARINGS, AND ME AS GROUND	DATE: 10/26/2021	
NAVD 88.	2)	ignature)
		E

RUNOFF COEFFICIENT TABLE

GENERAL NOTES

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

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

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD. SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO BRIDGE REMOVAL.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOIL, FERTILIZED, SEEDED AND EROSION MAT URBAN CLASS I, TYPE B.

BEARINGS SHOWN ON THE PLANS ARE GROUND BEARINGS TO THE NEAREST SECOND.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING PAVEMENTS AT REMOVAL LIMITS.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIALS WILL NOT BE PERMITTED IN THE WETLANDS.

WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS. DO NOT OPERATE EQUIPMENT OUTSIDE THE SLOPE INTERCEPTS.

ORDER OF SECTION 2 SHEETS

TYPICAL SECTIONS TRAFFIC CONTROL

					TREMPEALEAU COUNTY HIGHWAY DEPT.	TOWN OF ETTRICK	DNR CONTACT
STANDARD ABBREVIA	ATIONS				MR. AL RINKA	MR. JOHN VEHRENKAMP	MS. AMY LESIK
ADT AVERAGE DAI	LY TRAFFIC M,	L MAINLINE	E		COUNTY COMMISSIONER	TOWN OF ETTRICK CHAIRMAN	WDNR WEST CENTRAL R
AGG AGGREGATE	NC	NUMBER			PO BOX 97	PO BOX 52	1300 W. CLAIREMONT AV
ASPH ASPHALTIC	PE	PRIVATE E	ENTRANCE		20699 STATE ROAD 121	ETTRICK, WI 54627	EAU CLAIRE, WI 54701
BM BENCH MARK	PI	POINT OF	INTERSECTION		WHITEHALL, WI 54773	PHONE: (608) 526-4991	PHONE: (715) 836-6571
BOC BACK OF CUR	B PL	PROPERT	Y LINE		PHONE: (715) 538-4799		
C&G CURB AND GL	JTTER PP	POWER P	OLE			EMAIL: ETTRICKTOWNSHIP@HOTMAIL.COM	1 EMAIL: AMYL.LESIK@WIS
CE COMMERCIAL	ENTRANCE Q1	Y QUANTIT	Y		EMAIL: AL.RINKA@CO.TREMPEALEAU.WI.US		
CL CENTERLINE	RH	IF RIGHT-HA	AND FORWARD				
COR CORNER	RT	RIGHT					
CWT HUNDREDWE	IGHT R/	L REFERENC	CE LINE				
CY CUBIC YARD	R/	W RIGHT-OF	-WAY		UTILITIES		
DHV DESIGN HOUR	RLY VOLUME SF	SQUARE F	FOOT				
DWY DRIVEWAY	SH	LDR SHOULDE		**	RIVERLAND ENERGY COOPERATIVE	** DAIRYLAND POWER	
EL ELEVATION	SS		EWER	·•••			
EX EXISTING	ST	A STATION			MR. ROBIN SOSALLA	MR. ROB MALY	
EXC EXCAVATION	SY	•			PO BOX 277	PO BOX 817	
FT FOOT	Т	,	PERCENT OF)		625 MAIN STREET	LA CROSSE, WI 54602	RIAAFI
FTG FOOTING	TE				ARCADIA, WI 54612	PHONE: (608) 581-2633	
HYD HYDRANT	TL	e tempora	ARY LIMITED EASEMENT		PHONE: (608) 863-2377	EMAIL:ROB.MALY@DAIRYLANDPOWER.CC	
INV INVERT	TY				EMAIL: RSOSALLA@RIVERLANDENERGY.COM		
LB POUND	UC		ROUND CABLE				
LF LINEAR FOOT	VA						
LHF LEFT-HAND FO				**	LUMEN		Dial 🔠
LS LUMP SUM	VF		POINT OF CURVE		MR. TOM MURRAY		
LT LEFT	VF		POINT OF INTERSECTION		333 N. FRONT STREET		www.D
Mgal MEGAGALLON	N VF	T VERTICAL	POINT OF TANGENCY		LA CROSSE, WI 54601		VV VV VV.L
					PHONE: (608) 780-0895	** THESE ARE MEMBERS OF DIGGE	RS
					EMAIL: TOM.L.MURRAY@LUMEN.COM	HOTLINE.	
					EMAIL: TOWLLINGRAT@LUMEN.COM		
7281 00 72							
D: 7281-00-73		HW	VY: LOCAL STREET		COUNTY: TREMPEALEAU	GENERAL NOTES	
2918800\200252.01\TECH\CAD\XX	XXXXXXX\SHEETSPLAN\0201	01_GN.DWG			PLOT DATE : 1/4/202	22 10:27 AM PLOT BY : JEFF BREU	PLOT NAME :

						HYDROLOGIC SC	OIL GROUP					
			A		В		С				D	
	SLOPE RANGE (PERCENT)		(PERCENT)	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT						.7095						
CONCRETE						.8095						
BRICK	BRICK .7080											
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS, SHO	ULDERS					.4060						

TOTAL PROJECT AREA = 0.25 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = _____ACRES

CONTACTS

T AVE 71

PROJECT NO:

2

REGION

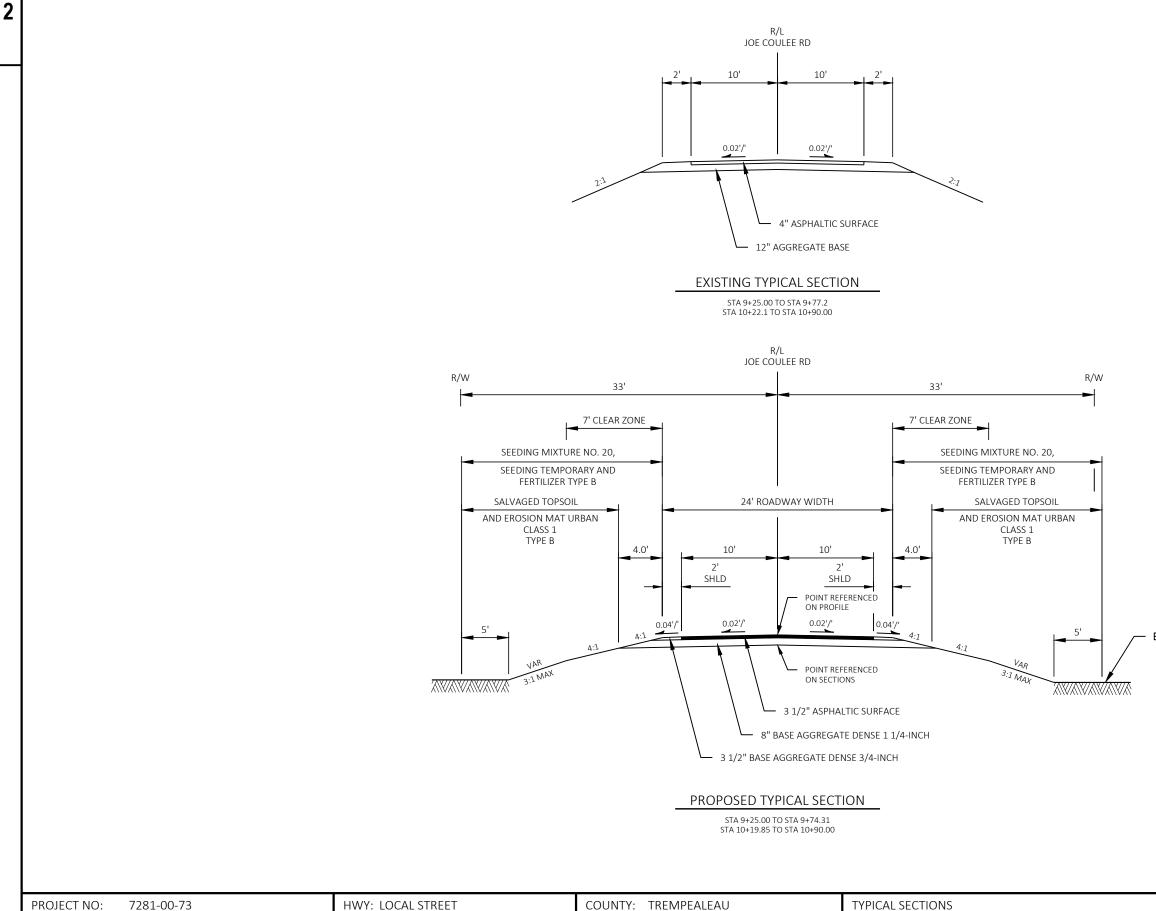
WISCONSIN.GOV

CONSULTANT CONTACT MEAD & HUNT, INC. 750 NORTH THIRD STREET LA CROSSE, WI 54601 ATTN: MR. JAY P. WHEATON, P.E. PHONE: (608) 784-6040 MOBILE: (608) 386-0212 EMAIL: JAY.WHEATON@MEADHUNT.COM



.DiggersHotline.com

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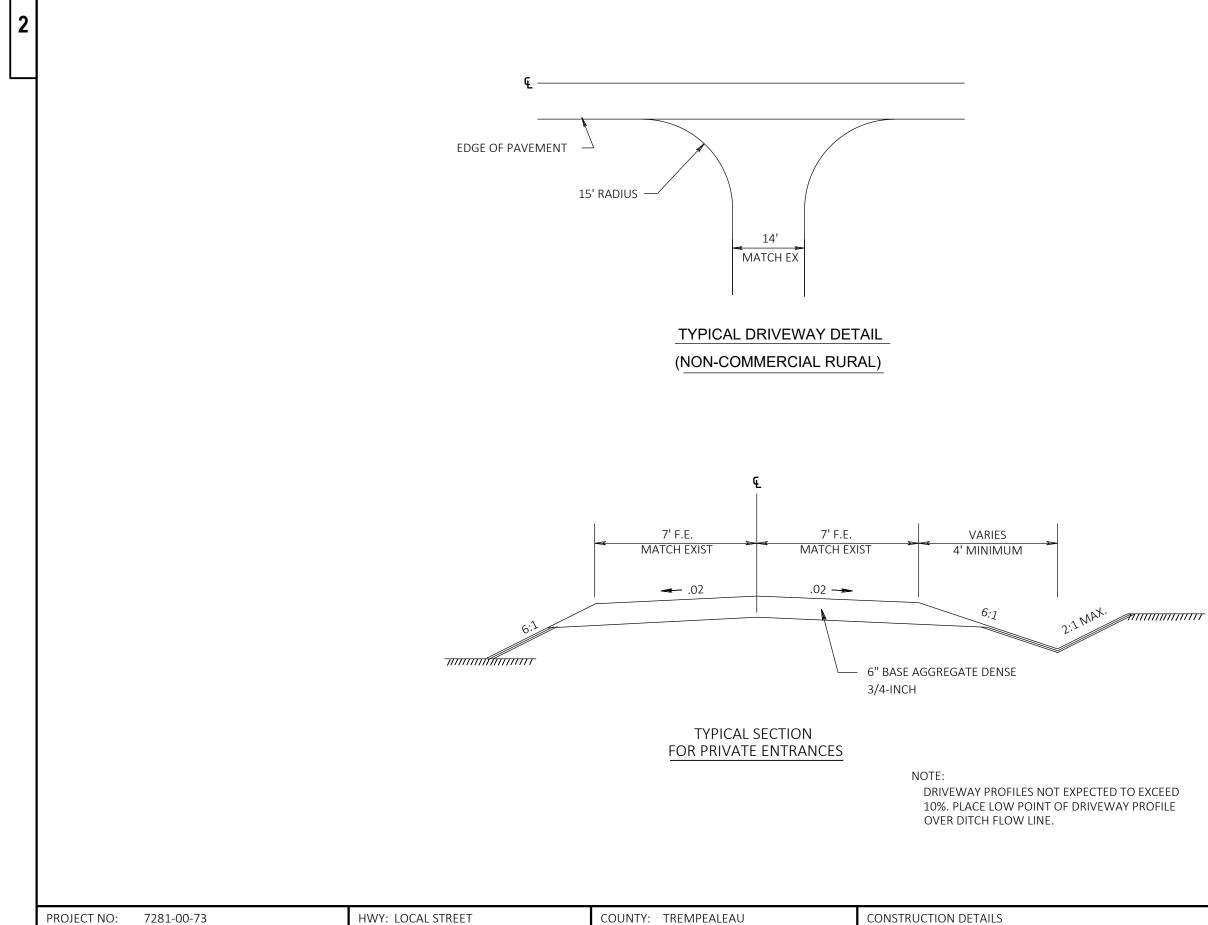


PLOT DATE : 10/19/2021 9:59 AM PLOT BY : JEFF BREU

U PLOT NAME :

EXISTING GROUND

SHEET



X:\2918800\200252.01\TECH\CAD\XXXXXX\SHEETSPLAN\021001_CD.DWG LAYOUT NAME - 021001_cd FILE NAME :

PLOT DATE : 10/19/2021 10:00 AM PLOT BY : JEFF BREU PLOT NAME :

PLOT SCALE : 1 IN:1 FT Ε

KNUTSON I 4 JOE COULEE RD SEE EXHIBIT 1 LINDSTROM RD ∕⊘ <1 (1)LEGEND NOTES BRIDGE OUT TYPE III BARRICADE R11-2B 48"X30" TYPE III BARRICADE WTH ATTACHED SIGN SIGN ON PERMANENT SUPPORT TO EXISTING SIGNS THAT WILL REMAIN IN PLACE. 2 (3) \square WORK AREA ROAD ROAD OF EACH WORKING DAY. CLOSED CLOSED 500 FT 1000 FT ALL SIGNS 48"x48" UNLESS NOTED OTHERWISE. 4 5 BRIDGE OUT BRIDGE OUT 3.2 MILES AHEAD LOCAL TRAFFIC ONLY 1.0 MILES AHEAD LOCAL TRAFFIC ONLY

(4)

PROJECT NO: 7281-00-73	HWY: LOCAL STREET	COUNTY: TREMPEALEAU	TRAFFIC CONTROL	
FILE NAME : X:\2918800\200252.01\TECH\CAD\XXXXXXX\SHEETSPLAN\025100 TC.D	NG	PLOT DATE : 1/4/2022 10:28 AN	PLOT BY : JEFF BREU PLOT NAME :	

R11-3B 60"X30"

R11-3B 60"X30"

F

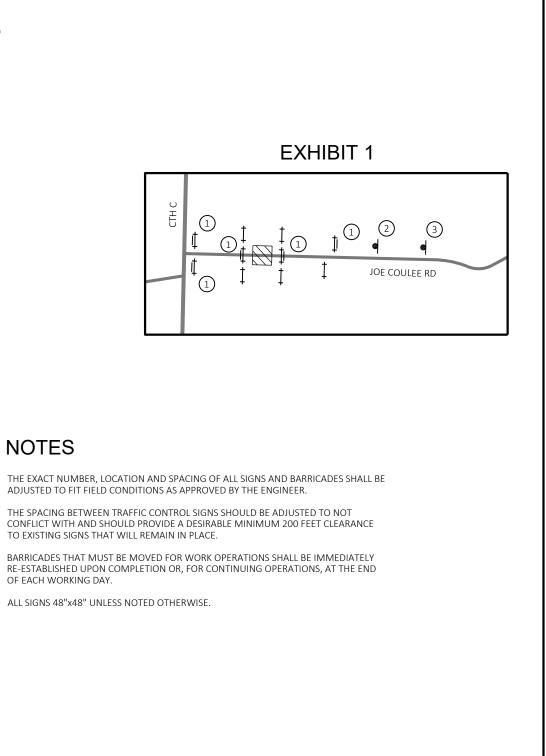
2

5

SYLVERSON RD

Z

5



WISDOT/CADDS SHEET 42

SHEET

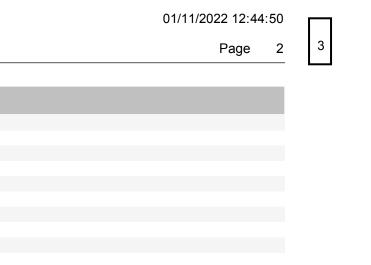
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Estimate Of Quantities By Plan Sets

					7281-00-73	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	2.000	2.000	
0004	201.0205	Grubbing	STA	2.000	2.000	
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-61-185	EACH	1.000	1.000	
0010	205.0100	Excavation Common	CY	95.000	95.000	
0012	206.1000	Excavation for Structures Bridges (structure) 01. B-61-245	LS	1.000	1.000	
0016	208.0100	Borrow	CY	120.000	120.000	
0018	210.1500	Backfill Structure Type A	TON	226.000	226.000	
0020	213.0100	Finishing Roadway (project) 01. 7281-00-73	EACH	1.000	1.000	
0024	305.0110	Base Aggregate Dense 3/4-Inch	TON	30.000	30.000	
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	178.000	178.000	
0020	455.0605	Tack Coat	GAL	20.000	20.000	
0028	465.0105	Asphaltic Surface	TON	58.000	58.000	
0032	502.0100	Concrete Masonry Bridges	CY	149.000	149.000	
0034	502.3200	Protective Surface Treatment	SY	187.000	187.000	
0036	505.0400	Bar Steel Reinforcement HS Structures	LB	3,060.000	3,060.000	
0038	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	19,890.000	19,890.000	
0040	513.4061	Railing Tubular Type M	LF	136.000	136.000	
0042	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000	
0044	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	4.000	4.000	
0046	520.3324	Culvert Pipe Class III-A 24-Inch	LF	92.000	92.000	
0050	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	640.000	640.000	
0054	606.0300	Riprap Heavy	CY	156.000	156.000	
0056	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	124.000	124.000	
0058	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7281-00-73	EACH	1.000	1.000	
0062	619.1000	Mobilization	EACH	0.500	0.500	
0064	624.0100	Water	MGAL	2.000	2.000	
0066	625.0500	Salvaged Topsoil	SY	350.000	350.000	
0070	628.1504	Silt Fence	LF	220.000	220.000	
0072	628.1520	Silt Fence Maintenance	LF	440.000	440.000	
0074	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000	
0076	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0078	628.2008	Erosion Mat Urban Class I Type B	SY	350.000	350.000	
0080	628.6005	Turbidity Barriers	SY	170.000	170.000	
0082	628.7504	Temporary Ditch Checks	LF	30.000	30.000	
0084	628.7555	Culvert Pipe Checks	EACH	6.000	6.000	
0086	629.0210	Fertilizer Type B	CWT	0.200	0.200	
0088	630.0120	Seeding Mixture No. 20	LB	9.000	9.000	
0090	630.0200	Seeding Temporary	LB	9.000	9.000	
0092	630.0500	Seed Water	MGAL	8.000	8.000	
0096	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000	
0098	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0100	638.2602	Removing Signs Type II	EACH	6.000	6.000	
0102	638.3000	Removing Small Sign Supports	EACH	6.000	6.000	
0102	642.5001	Field Office Type B	EACH	0.500	0.500	
0104	643.0420	Traffic Control Barricades Type III	DAY	812.000	812.000	
0110	643.0420 643.0705	Traffic Control Warning Lights Type A	DAT	1,392.000	1,392.000	
	643.0705 643.0900		DAY			
0114		Traffic Control Signs		638.000	638.000	
0116	643.5000	Traffic Control	EACH	0.500	0.500	
0118	645.0111	Geotextile Type DF Schedule A	SY	52.000	52.000	



			Estimate			
					7281-00-73	
Line	Item	Item Description	Unit	Total	Qty	
0120	645.0120	Geotextile Type HR	SY	340.000	340.000	
0122	650.4500	Construction Staking Subgrade	LF	120.000	120.000	
0124	650.5000	Construction Staking Base	LF	120.000	120.000	
0126	650.6000	Construction Staking Pipe Culverts	EACH	2.000	2.000	
0128	650.6500	Construction Staking Structure Layout (structure) 01. B-61-245	LS	1.000	1.000	
0132	650.9910	Construction Staking Supplemental Control (project) 01. 7281-00-73	LS	1.000	1.000	
0136	650.9920	Construction Staking Slope Stakes	LF	120.000	120.000	
0138	690.0150	Sawing Asphalt	LF	40.000	40.000	
0140	715.0502	Incentive Strength Concrete Structures	DOL	900.000	900.000	
0142	999.2005.S	Maintaining Bird Deterrent System (station) 01. Sta 10+00	EACH	1.000	1.000	
0146	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	150.000	150.000	
0148	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	150.000	150.000	
0150	SPV.0090	Special 01. Flashing Stainless Steel	LF	92.000	92.000	



CLEARING & GRUBBING

				201.0105 CLEARING	201.0205 GRUBBING
STATION	TO	STATION	LOCATION	STA	STA
9+25	-	10+90	JOE COULEE RD	2	2
			TOTALS	2	2

EARTHWORK SUMMARY												
FROM/TO STATION	LOCATION	205.0100 EXCAVATION COMMON CUT (1)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (2)	UNEXPANDED FILL	EXPANDED FILL (FACTOR 1.25)	MASS ORDINATE +/- (3)	E				
9+25 - 10+90	JOE COULEE RD	95	29	66	149	186	-120					
		TOTALS										

(1) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED

AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL

520.1024

FOR CULVERT

PIPE 24-INCH

EACH

2

2

4

(3) THE MASS ORDINATE + OR - QUANTITY CALCULATED. PLUS QUANTITY INDICATES AS EXCESS OF MATERIAL. MINUS INDICATES A SHORTAGE OF MATERIAL.

ASPHALT SUMMARY

BASE AGGREGATE DENSE

DRAINAGE

LOCATION

JOE COULEE RD

JOE COULEE RD

STEEL

PIPE

MINIMUM

THICKNESS

INCHES

0.064

0.064

(2)

)(J(STATION 9+74 10+90	TO - -	STATION 9+25 10+20	624.0100 WATER	305.0120 BASE AGGREGATE DENSE 1-1/4 INCH	305.0110 BASE AGGREGATE DENSE 3/4-INCH					
				MGAL	TON	TON	LOCATION	STATION	то	STATION	
	TACK COA			1	74	7	JOE COULEE RD	9+74.00	-	9+25.00	-
JATEST	TACK COP			1	104	10	JOE COULEE RD	10+90.00	-	10+20.00	
				0	-	13	DRIVEWAY	10+72.00	-	10+60.00	
м				2	178	30	TOTALS				-

APRON 520.3324 ENDWALLS CULVERT PIPE

CLASS III-A

24-INCH

LF

34

58

92

			619.1000 MOBILIZATION
CATEGORY	STATION TO STATION	LOCATION	EACH
0010	PROJECT	JOE COULEE RD	0.50
		TOTALS	0.50

τι	JRB	IDIT	Y

10+10	TOTALS	170
10+10	JOE COULEE RD	85
9+90	JOE COULEE RD	85
STATION	LOCATION	SY
		BARRIERS
		TURBIDITY
		628.6005

LANDSCAPING ITEMS

ALUMINUM

PIPE

MINIMUM

THICKNESS

INCHES

0.075

0.075

TOTALS

					628.2008		630.0120				SILT FENCE		
				625.0500	EROSION MAT	629.0210	SEEDING	630.0200	630.0500				628.1520
				SALVAGED	URBAN CLASS I	FERTILIZER	MIXTURE	SEEDING	SEED			628.1504	SILT FENCE
				TOPSOIL	TYPE B	TYPE B	NO. 20	TEMPORARY	WATER			SILT FENCE	MAINTENANCE
STATION	TO	STATION	LOCATION	SY	SY	CWT	LB	LB	MGAL	STATION TO STATION	LOCATION	LF	LF
9+25	-	9+80	JOE COULEE RD, LT & RT	158	158	0.1	4	4	4	9+25.00 - 9+76.00	JOE COULEE RD	120	240
10+00	-	10+90	JOE COULEE RD, LT & RT	192	192	0.1	5	5	4	10+07.00 - 10+90.00	JOE COULEE RD	100	200
			TOTALS	350	350	0.2	9	9	8		TOTALS	220	440

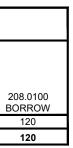
NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED AS 0020.

PROJECT NO: 7281-00-73	HWY: LOCAL STREET	COUNTY: TREMPEALEAU		MISCELLANEOU	IS QUANTITIE	S
FILE NAME : X:\2918800\200252.01\TECH\CAD\XXXXXXX\SHEETSPLAN\0	30201_MQ.DWG	PLOT DATE :	1/4/2022 10:45 AM	PLOT BY :	JEFF BREU	PLOT NAME :

STATION TO STATION

9+41 - 9+81

10+22 - 10+87



	455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE
CATION	GAL	TON
OULEE RD	9	24
OULEE RD	12	34
TOTALS	20	58

MATED AT 0.07 GAL/SY

BILIZATION

BARRIERS

SHEET

WISDOT/CADDS SHEET 42

Ε

EROSION CONTROL MOBILIZATIONS

			TOTALS	5	2	30	6
UNDI	STRIB	UTED	VARIOUS	5	2	-	-
9+25	-	10+90	JOE COULEE RD	-	-	30	6
STATION	TO	STATION	LOCATION	EACH	EACH	LF	EA
				EROSION CONTROL	EROSION CONTROL	DITCH CHECKS	PIPE CHECKS
				MOBILIZATIONS	EMERGENCY	TEMPORARY	CULVERT
				628.1905	628.1910 MOBILIZATIONS	628.7504	628.7555

			SIGNING			
		634.0614 POSTS WOOD 4x6-INCH x 14-FT	637.2230 SIGNS TYPE II REFLECTIVE F	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	
STATION	LOCATION	EACH	SF	EACH	EACH	COMMENTS
9+76	JOE COULEE RD, LT & RT	-	-	2	2	W5-52L & W5-52R
9+76	JOE COULEE RD, RT	-	-	1	1	WEIGHT LIMIT
10+23	JOE COULEE RD, LT & RT	-	-	2	2	W5-52L & W5-52R
10+23	JOE COULEE RD, LT	-	-	1	1	WEIGHT LIMIT
9+60	JOE COULEE RD, LT	1	3	-	-	W5-52L
9+64	JOE COULEE RD, RT	1	3	-	-	W5-52R
10+30	JOE COULEE RD, LT	1	3	-	-	W5-52L
10+35	JOE COULEE RD, RT	1	3	-	-	W5-52R
	TOTALS	4	12	6	6	

TRAFFIC CONTROL ITEMS

				643.0705				
		643.0420	TRAFFIC	TRAFFIC				
	TRAFFIC	TRAFFIC	CONTROL	CONTROL		643.0900		
	CONTROL	CONTROL	WARNING	WARNING	TRAFFIC	TRAFFIC	643.5000	
	BARRICADES	BARRICADES	LIGHTS	LIGHTS	CONTROL	CONTROL	TRAFFIC	
	TYPE III	TYPE III	TYPE A	TYPE A	SIGNS	SIGNS	CONTROL	
PROJECT	EACH	DAY	EACH	DAY	EACH	DAY	EACH	REMARKS
7281-00-73	14	812	24	1,392	11	638	0.5	58 DAYS
TOTALS		812		1,392		638	0.5	

CONSTRUCTION STAKING

						650.4500 CONSTRUCTION STAKING SUBGRADE	STAKING BASE	650.6000 CONSTRUCTION STAKING PIPE CULVERTS	STRUCTURE LAYOUT (B-61-245)	STAKING SUPPLEMENTAL CONTROL (PROJECT)	CONSTRUCTION STAKING SLOPE STAKES	STATION 9+25	LOCATION JOE COULEE RD	690.0150 SAWING ASPHALT LF 20
	CATEGORY	STATION	і то	STATIO		LF	LF	EA	LS	LS	LF	10+90	JOE COULEE RD	20
	0010	9+25	-	9+75		50	50	-	-	-	50		TOTALS	40
	0010	10+20	-	10+90	JOE COULEE RD, LT & RT	70	70	-	-	-	70			
	0010		9+61		JOE COULEE RD, RT	-	-	1	-	-	-			
	0010		10+54		JOE COULEE RD, RT	-	-	1	-	-	-			
	0020		9+97.08	3	JOE COULEE RD	-	-	-	1	-	-			
	0010		PROJEC	т	JOE COULEE RD	-	-	-	-	1	-			
					TOTALS	120	120	2	1	1	120	NOTE: ALI	L ITEMS ARE CATEGORY 0010 UNLES:	S NOTED AS 0020.
PROJECT NO:	7281-00-73				HWY: LOCAL STREET		COUNTY: TREM	MPEALEAU		MISCELLANEOUS	S QUANTITIES			SHEET

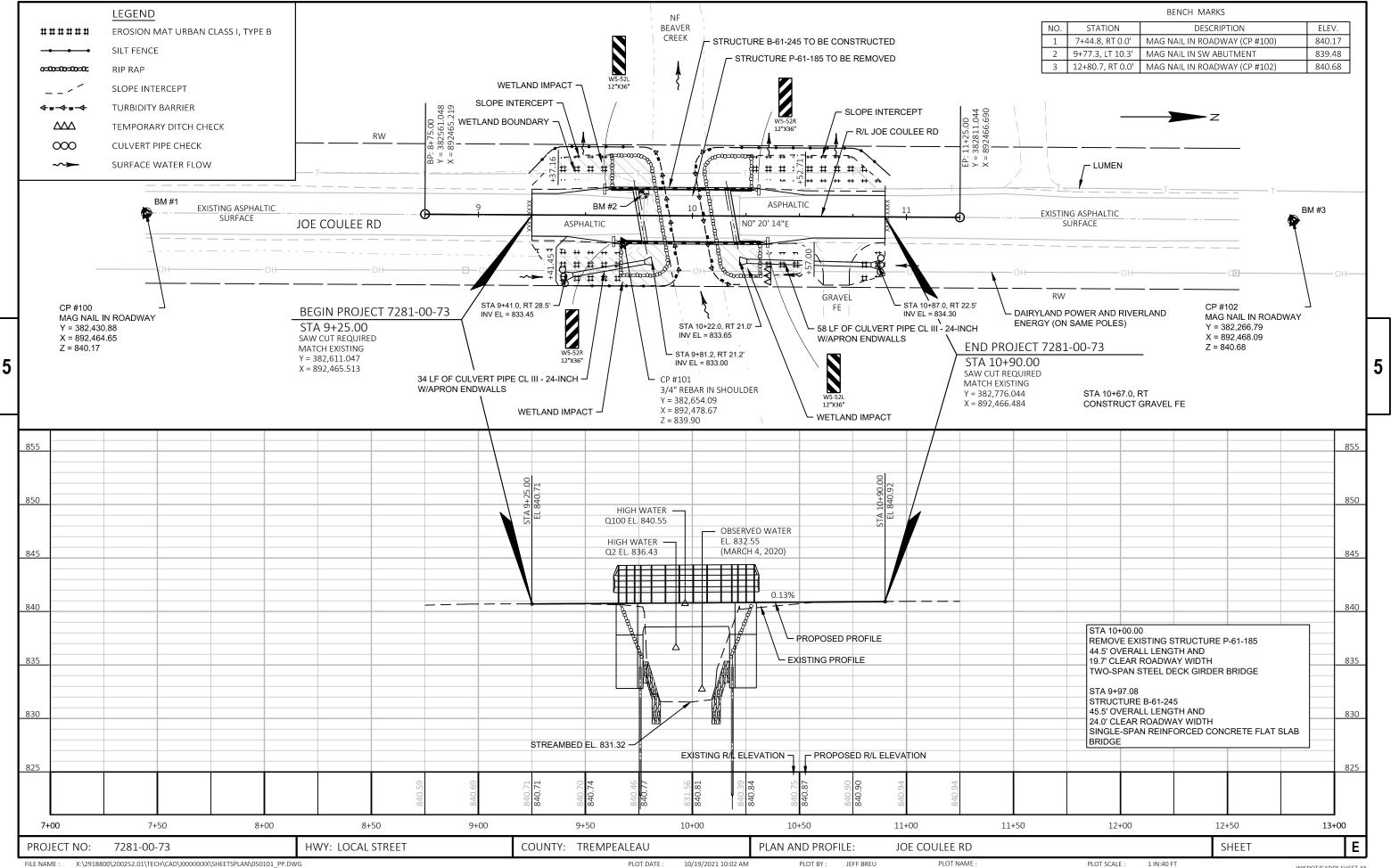
PLOT DATE : 1/4/2022 10:46 AM

FILE NAME :	X:\2918800\200252.01\TECH\CAD\XXXXXXXS\SHEETSPLAN\030201 MQ.DWG
	LAYOUT NAME - 030202 mg
	LATOOT NAME - 030202_mq

PLOT NAME :

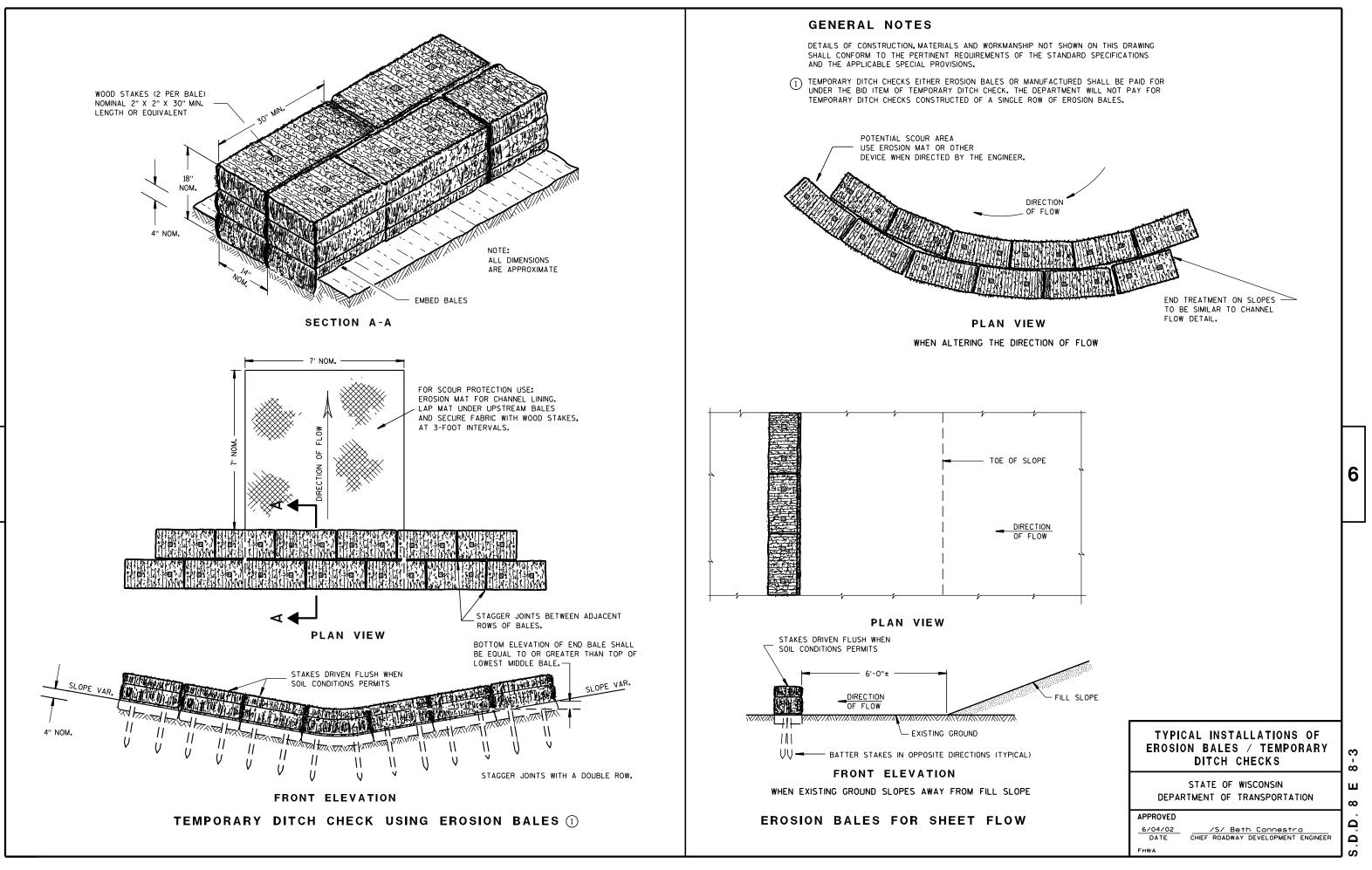
3

SAWING ASPHALT



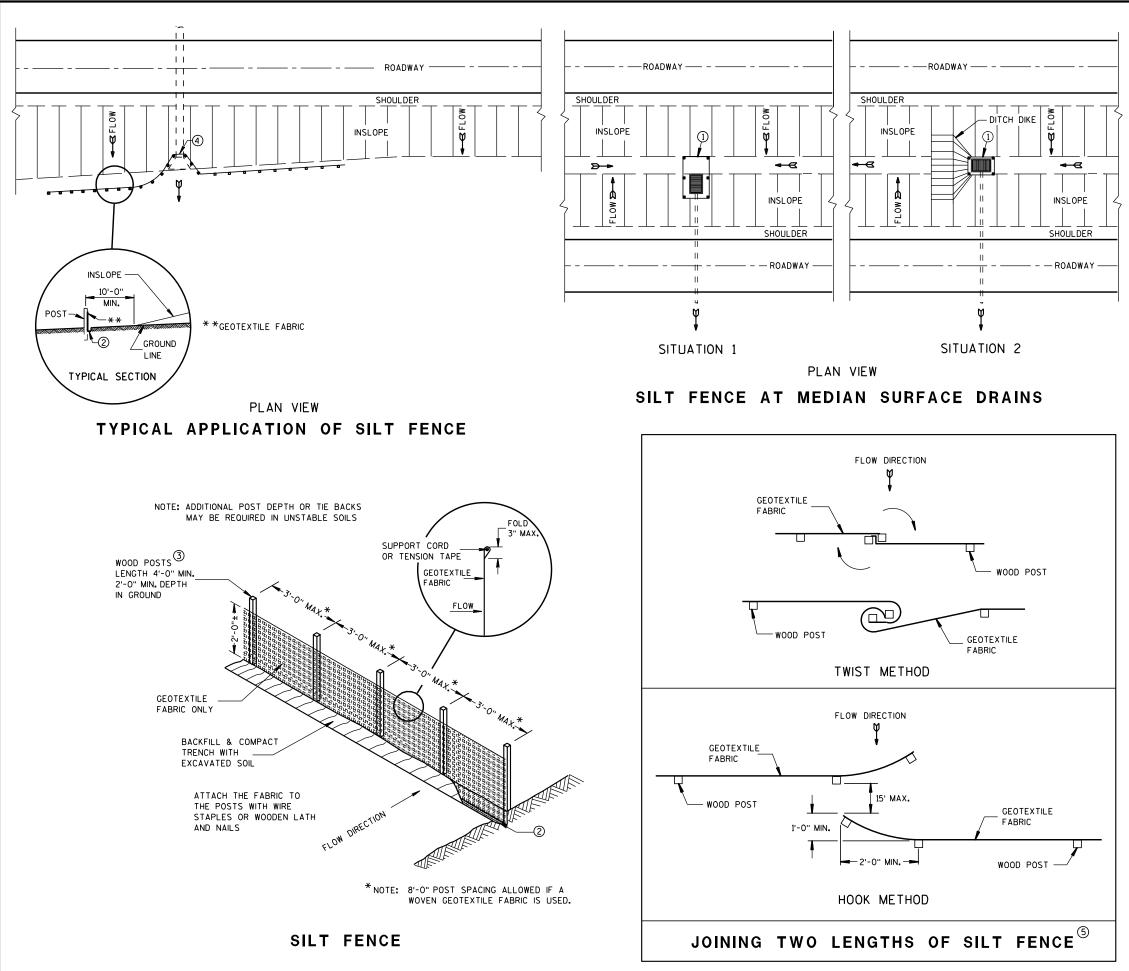
Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
12A03-10	NAME PLATE (STRUCTURES)
13c19-03	HMA LONGITUDINAL JOINTS
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15С02-08В	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15С11-09В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



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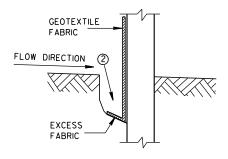
S.D.D. 8 E 9

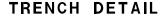
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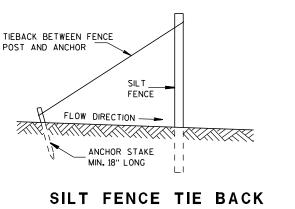
GENERAL NOTES

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

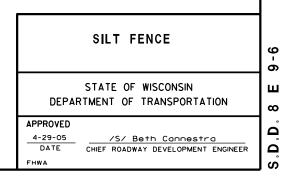
- \bigcirc horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF $1/_8$ " X $1/_8$ " 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.

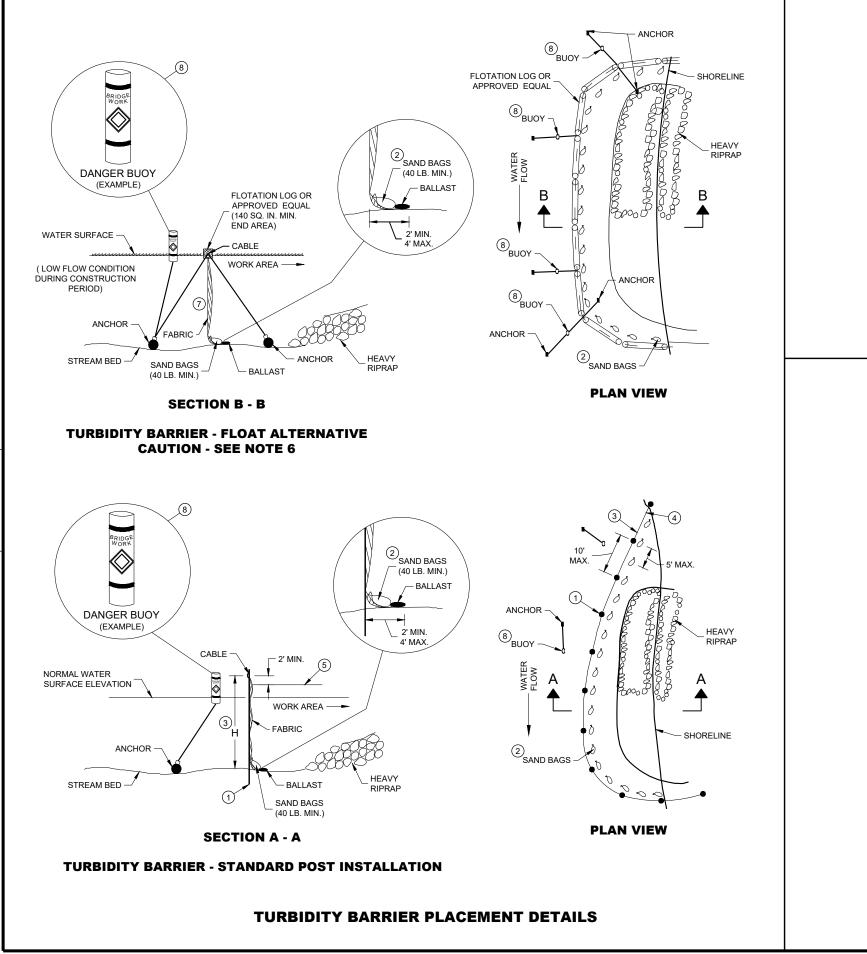




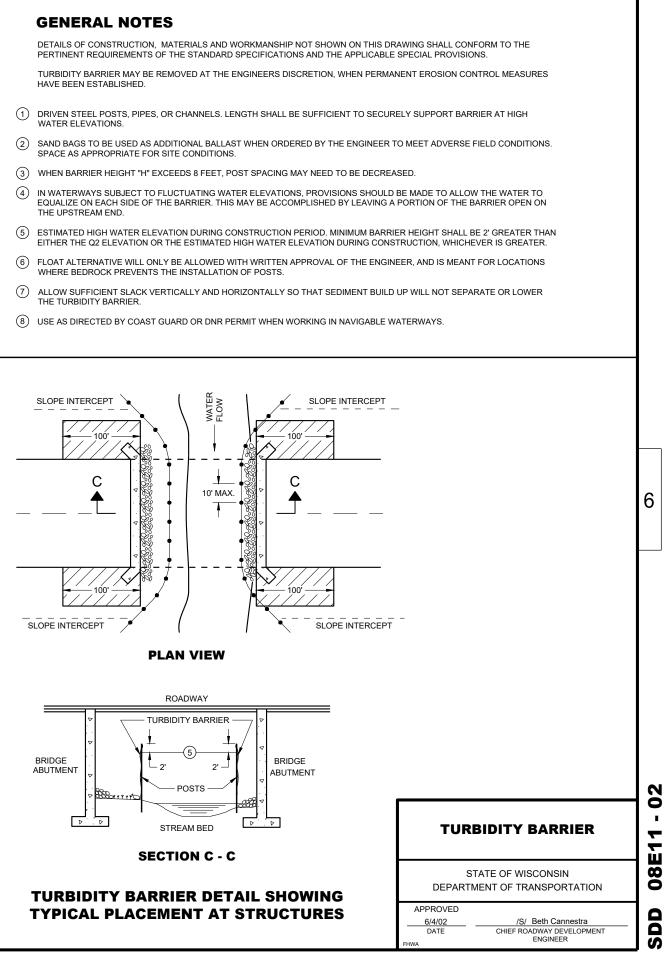


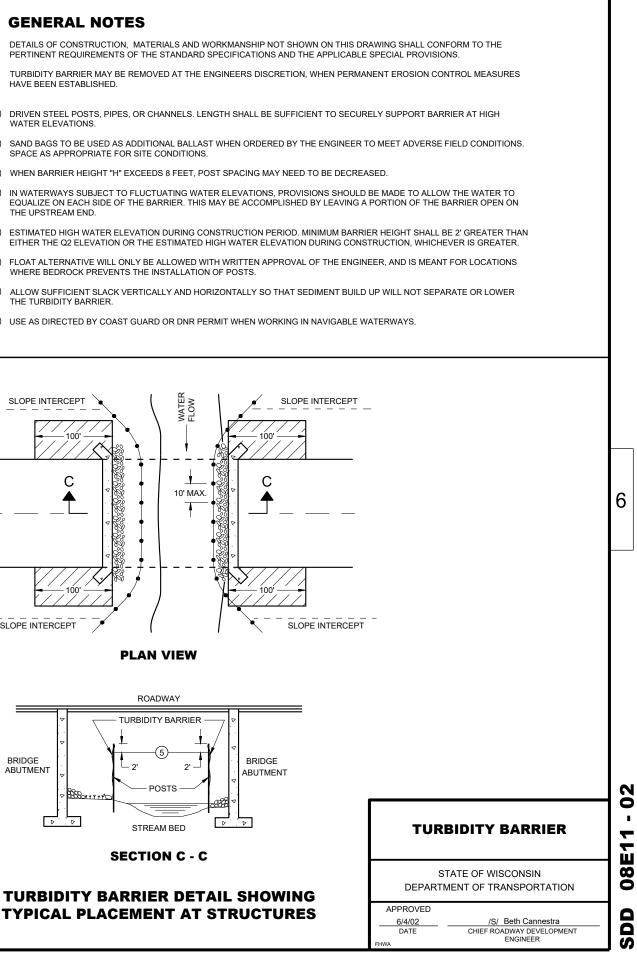
(WHEN REQUIRED BY THE ENGINEER)



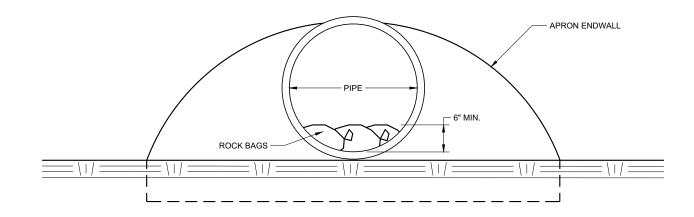


- WATER ELEVATIONS.

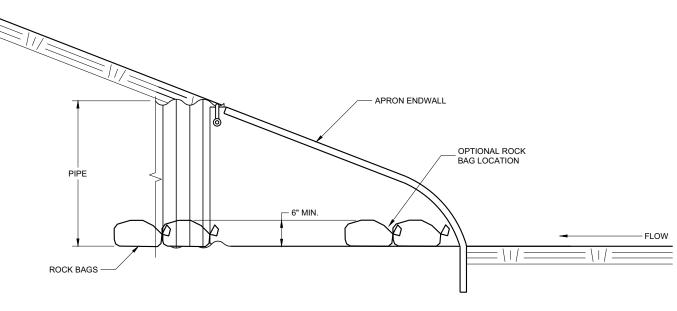




SDD 08E -. 02



END VIEW



SIDE VIEW

CULVERT PIPE CHECK (INSTALL ON INLET END ONLY)

SDD 08E15 2

6

SDD 08E15-01

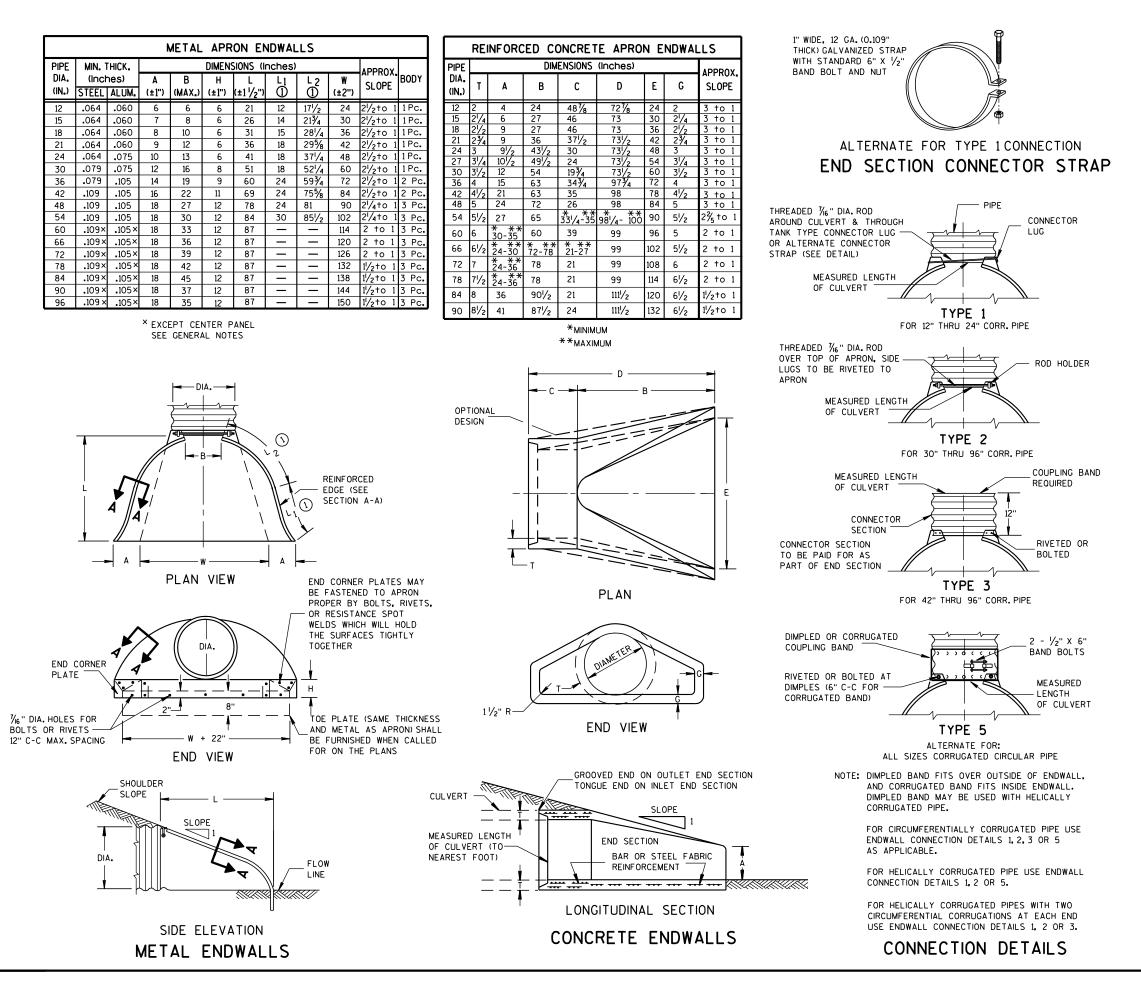
CULVERT PIPE CHECK

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE

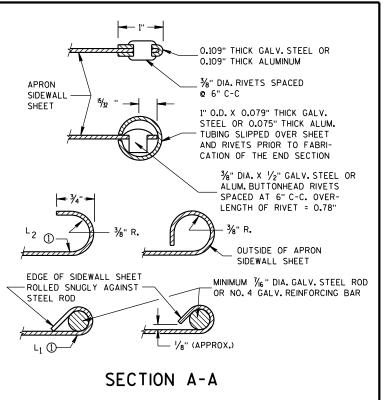
/S/ Daniel Schave EROSION CONTROL ENGINEER

FHWA



D.D. 8 F 1-

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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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

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

 \bigoplus for PIPE SIZES UP to 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

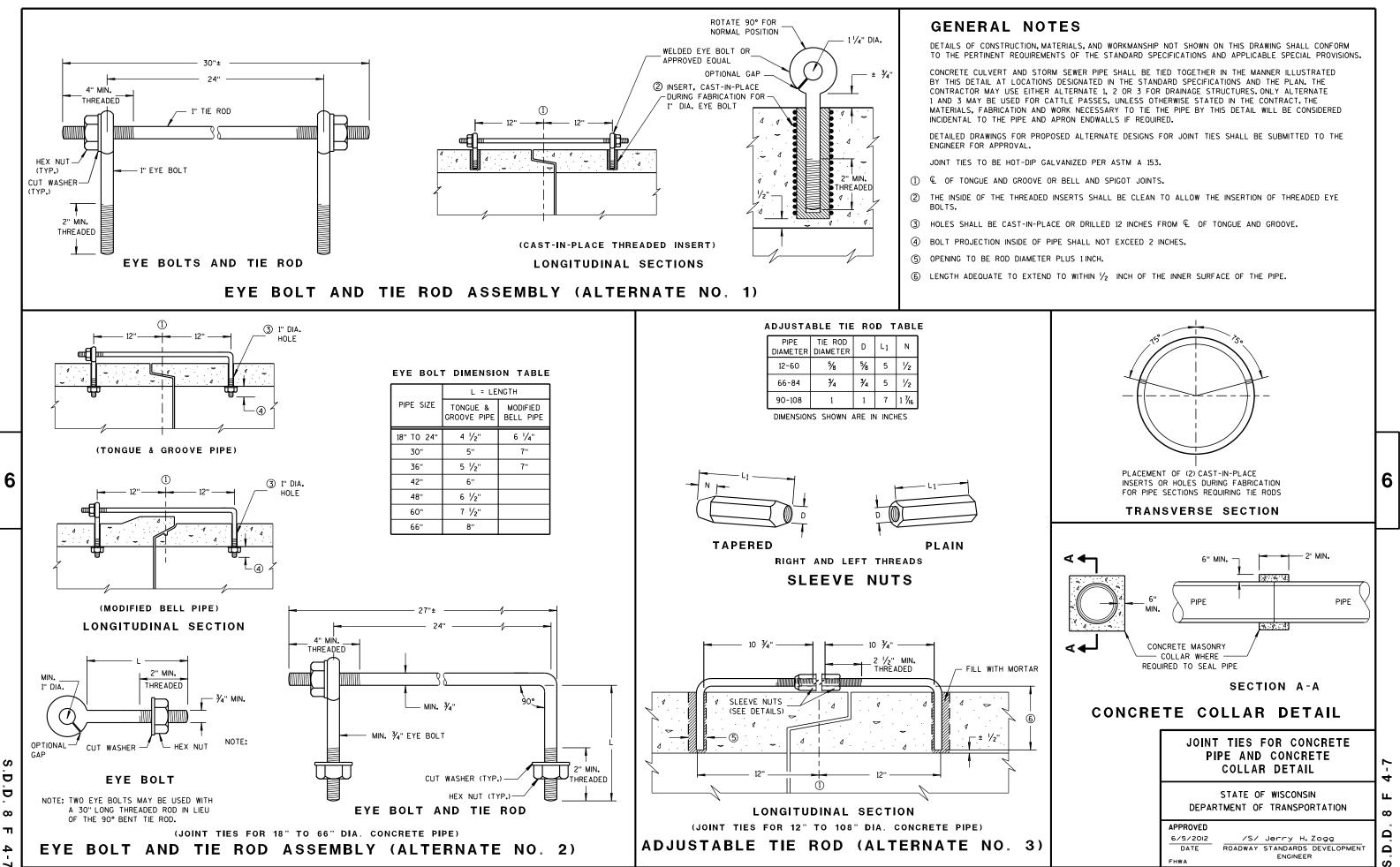
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED II/30/94 DATE FHWA

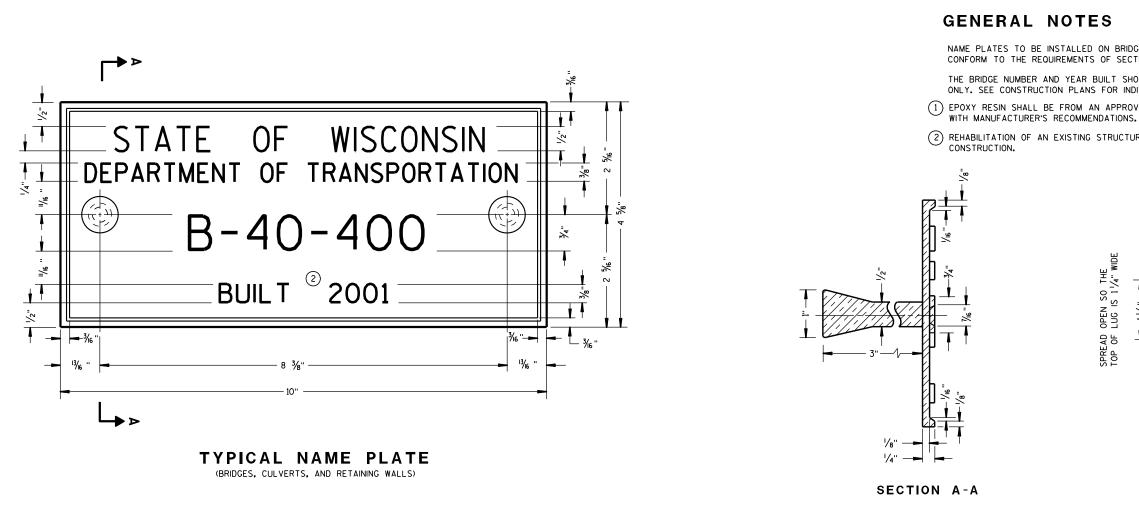
CHIEF ROADWAY DEVELOPMENT ENGINEER

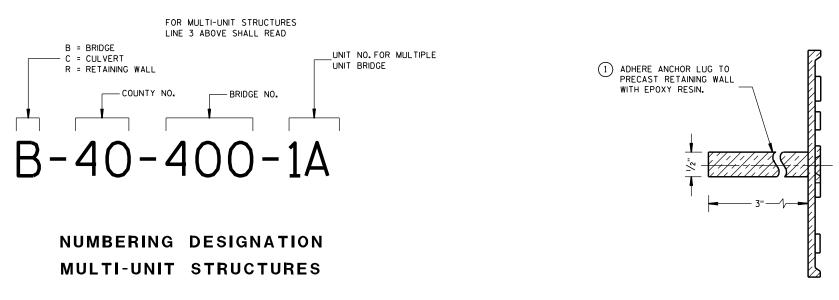
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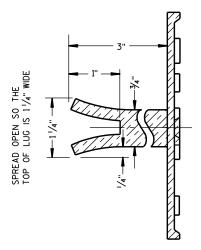


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

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



ALTERNATE LUG

NAME PLATE (STRUCTURES)

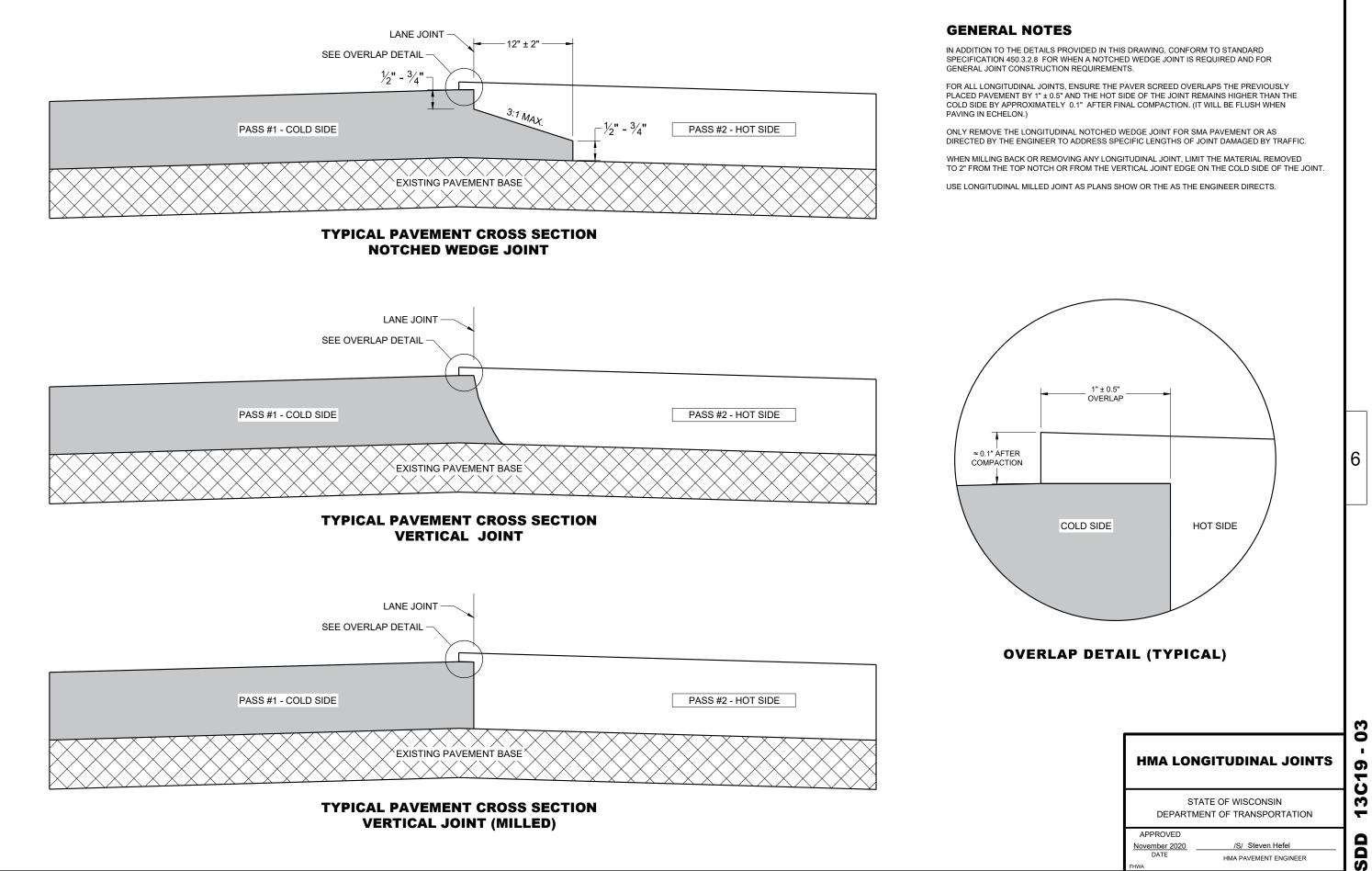
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

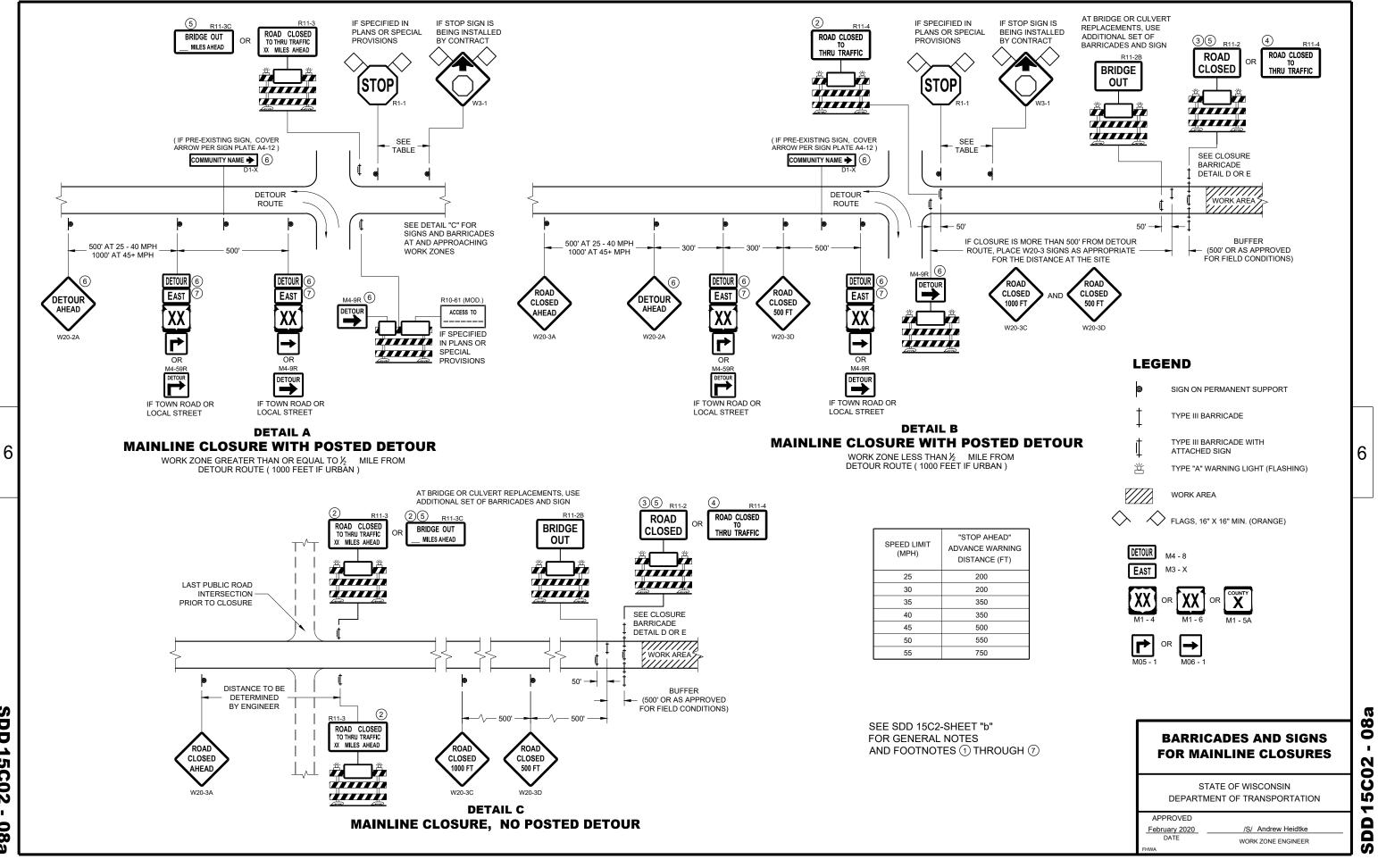
APPROVED

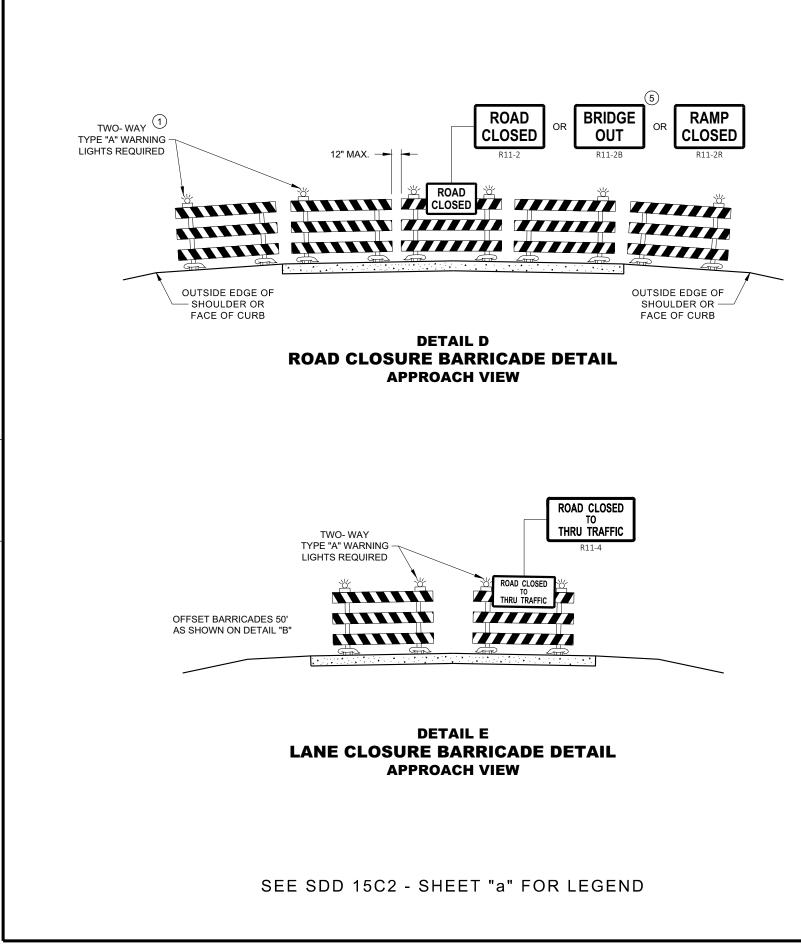
3/26/10 DATE FHWA

/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 6

3-10 ∢ 2 Δ Δ ഗ







GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

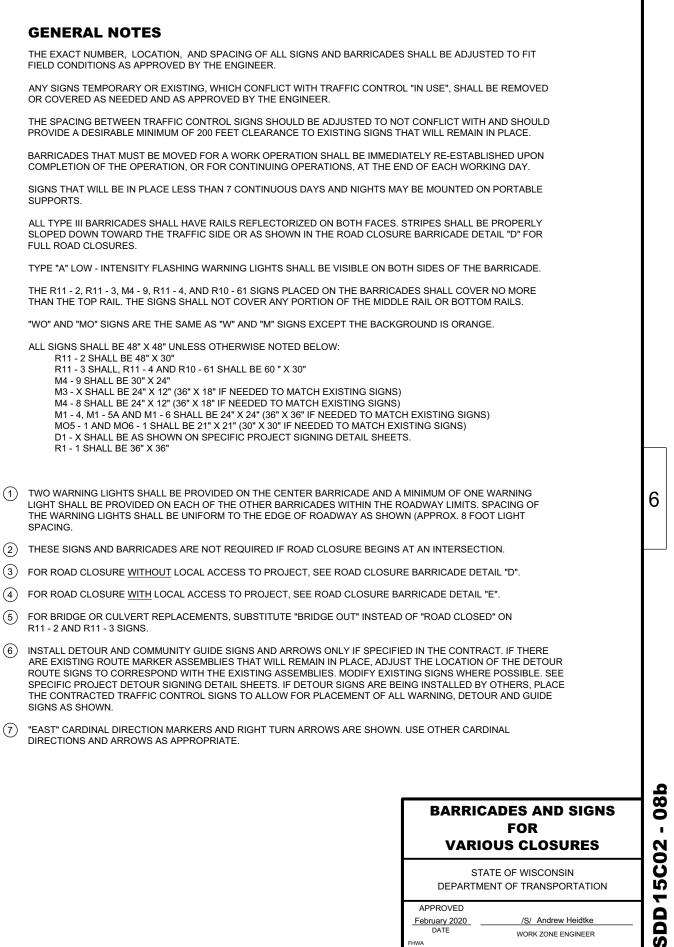
FULL ROAD CLOSURES.

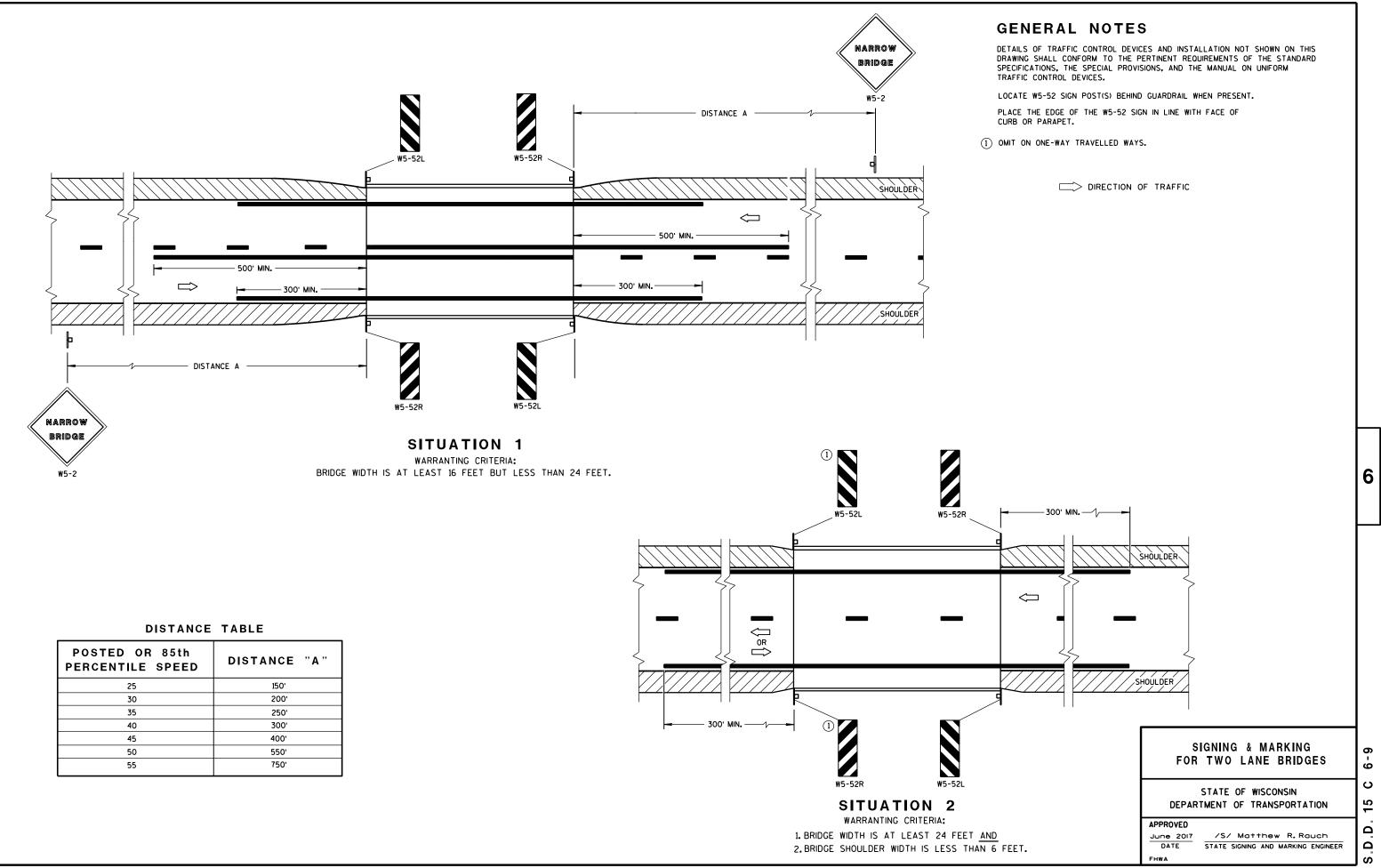
THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

- ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11 - 2 SHALL BE 48" X 30"
 - R11 3 SHALL, R11 4 AND R10 61 SHALL BE 60 " X 30" M4 - 9 SHALL BE 30" X 24"
 - M3 X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
 - M4 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

 - R1 1 SHALL BE 36" X 36"
- (1)TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.



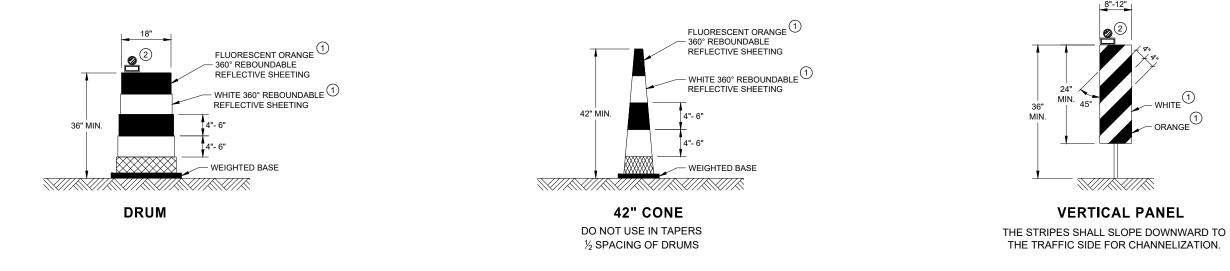


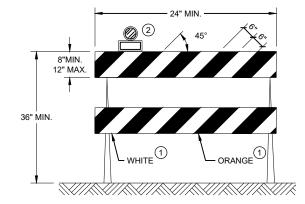
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GENERAL NOTES

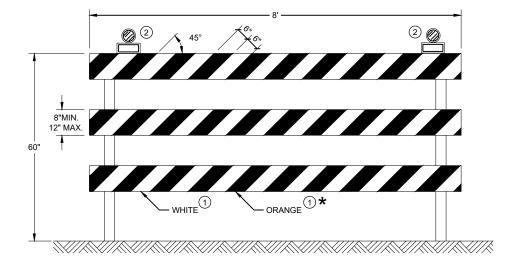
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





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.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

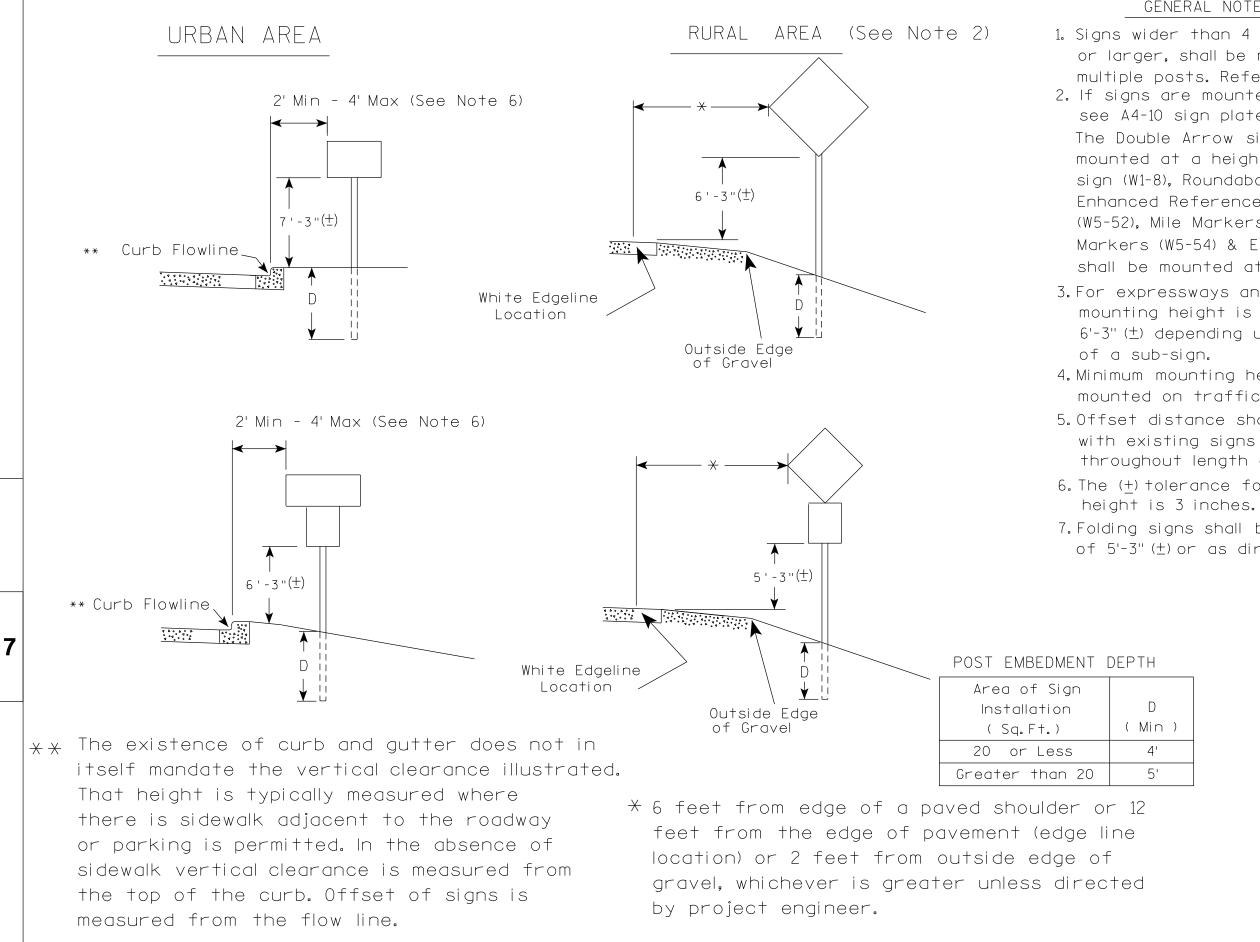
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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

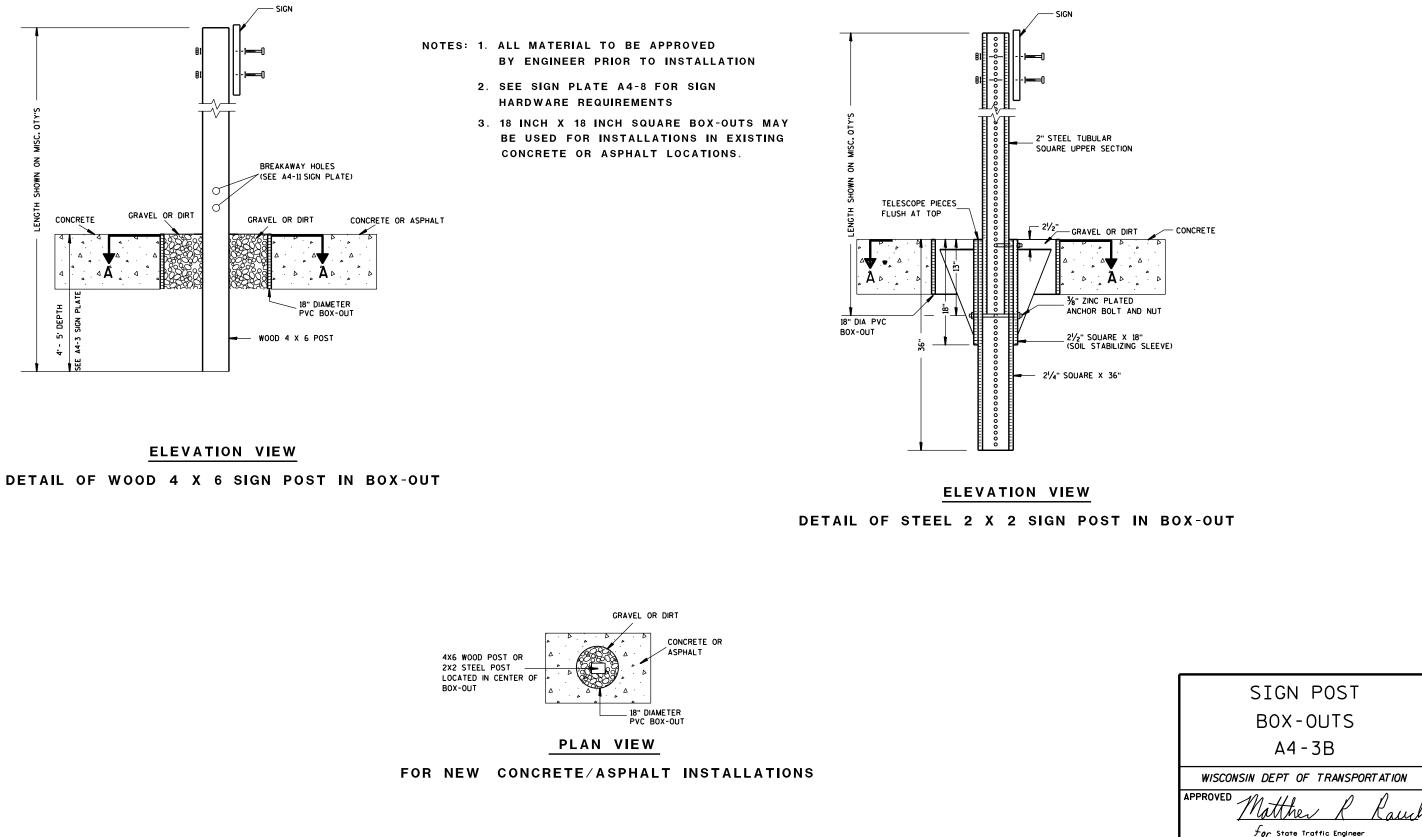


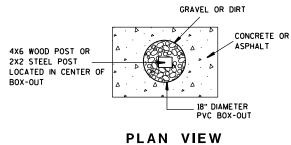
PROJECT NO:	HWY:	COUNTY:			
			DUAT DATE AT MAN AND A A	A DI OT DY O	DLOT NAME -

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4. 2. If signs are mounted on or behind barrier wall. see A4-10 sian plate. The Double Arrow sign (W12-1D) shall be mounted at a height of $2'-3''(\pm)$. 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" (\pm) or $6'-3''(\pm)$ depending upon existence 4. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (+). 5. Offset distance shall be consistent with existing signs or consistent throughout length of project. 6. The (+) tolerance for mounting 7. Folding signs shall be mounted at a height of 5'-3" (\pm) or as directd by the Engineer.

)	
	TYPICAL INSTALLATION
	OF PERMANENT TYPE II
	SIGNS ON SINGLE POSTS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew & Rauch For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>A4-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42





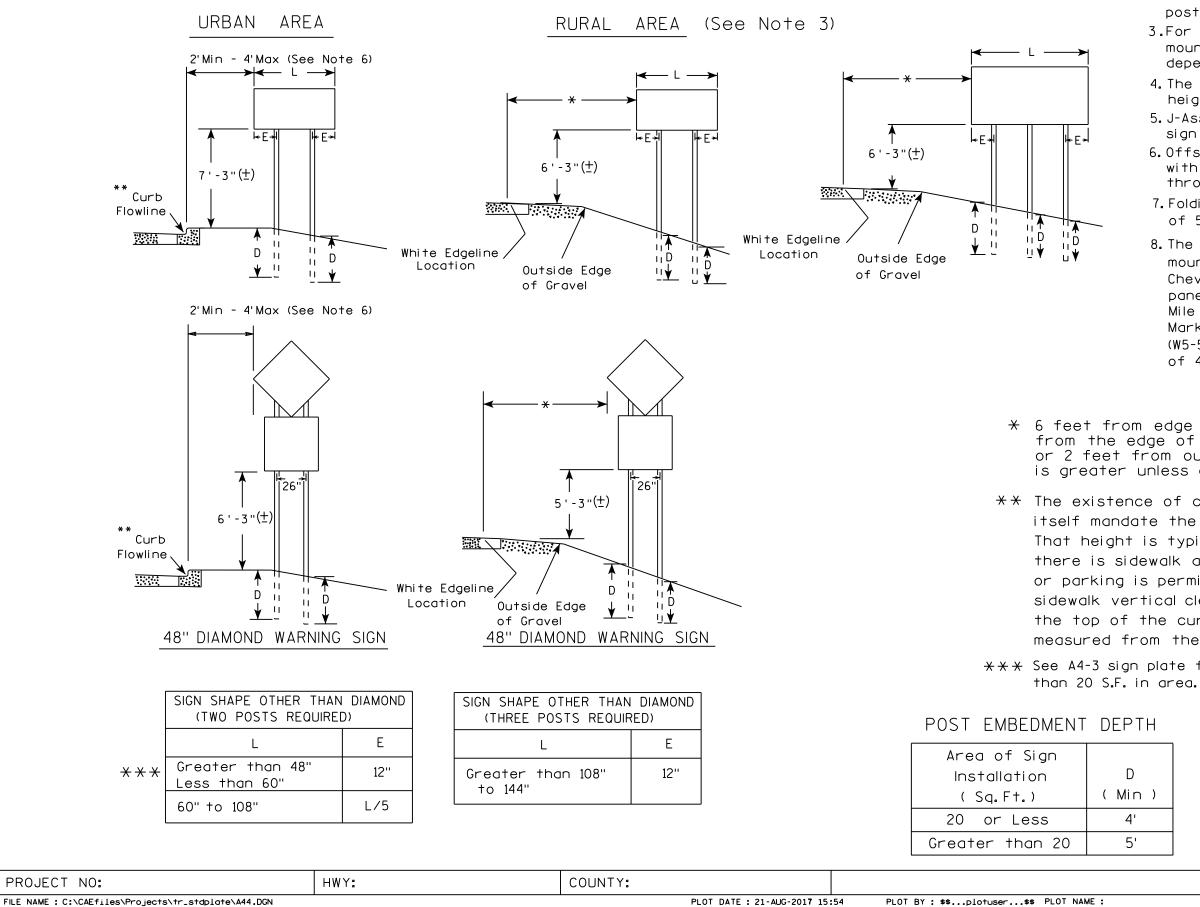
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

DATE <u>1/27/14</u>

SHEET NO:

PLATE NO. <u>A4-3B.1</u>

Ε



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

7

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3.For expressways and freeways, mounting height is $7'-3''(\pm)$ or $6'-3''(\pm)$ 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.

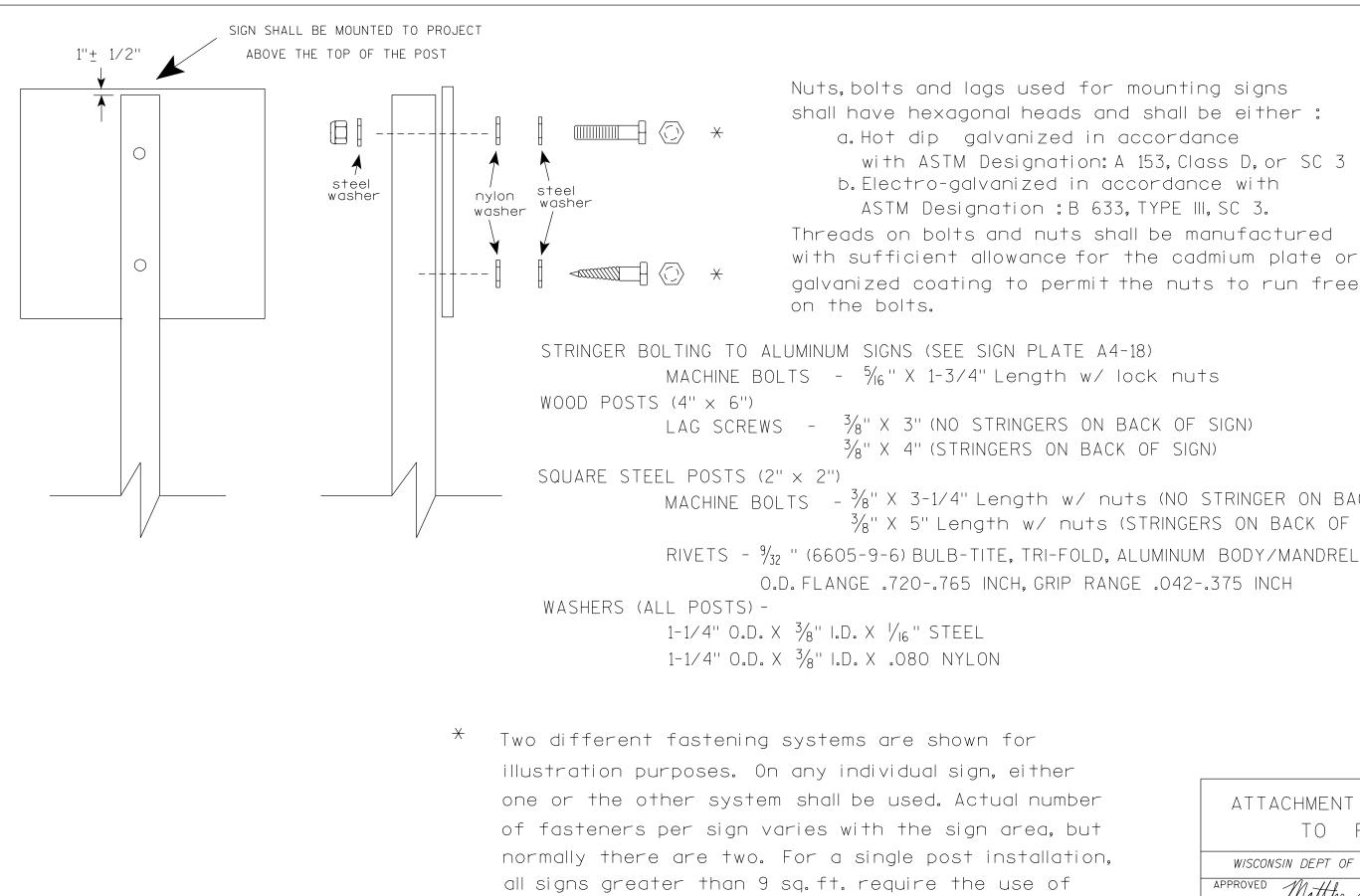
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

 \times \times See A4-3 sign plate for signs 4' or less in width and less

H	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS
)	WISCONSIN DEPT OF TRANSPORTATION
,	APPROVED Matther & Rauch
	For State Traffic Engineer
	DATE 8/21/17 PLATE NO. 44-4.15
	SHEET NO: E
DI AT. CA	L 5 - 100 100007-1 00000

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



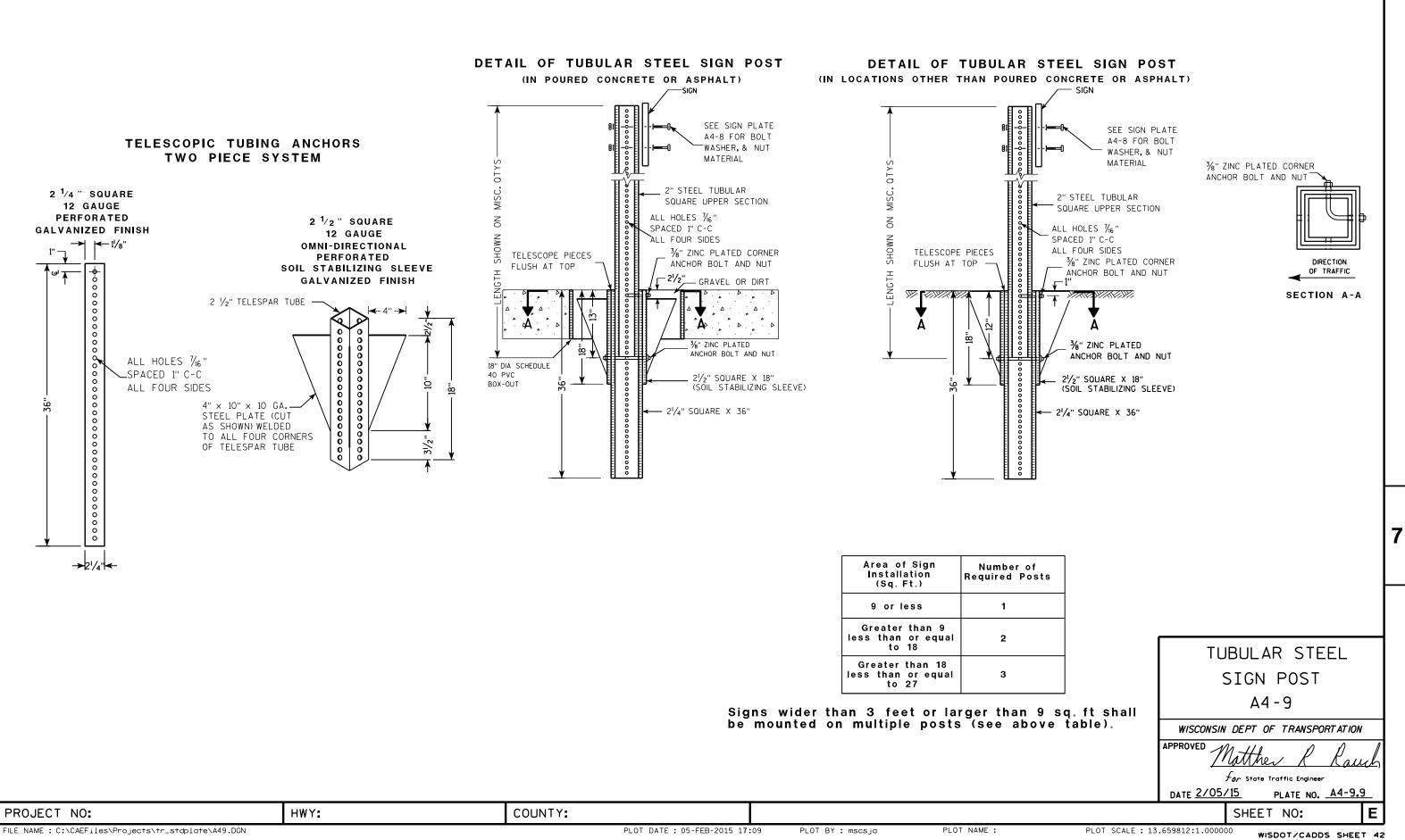
3 fasteners.

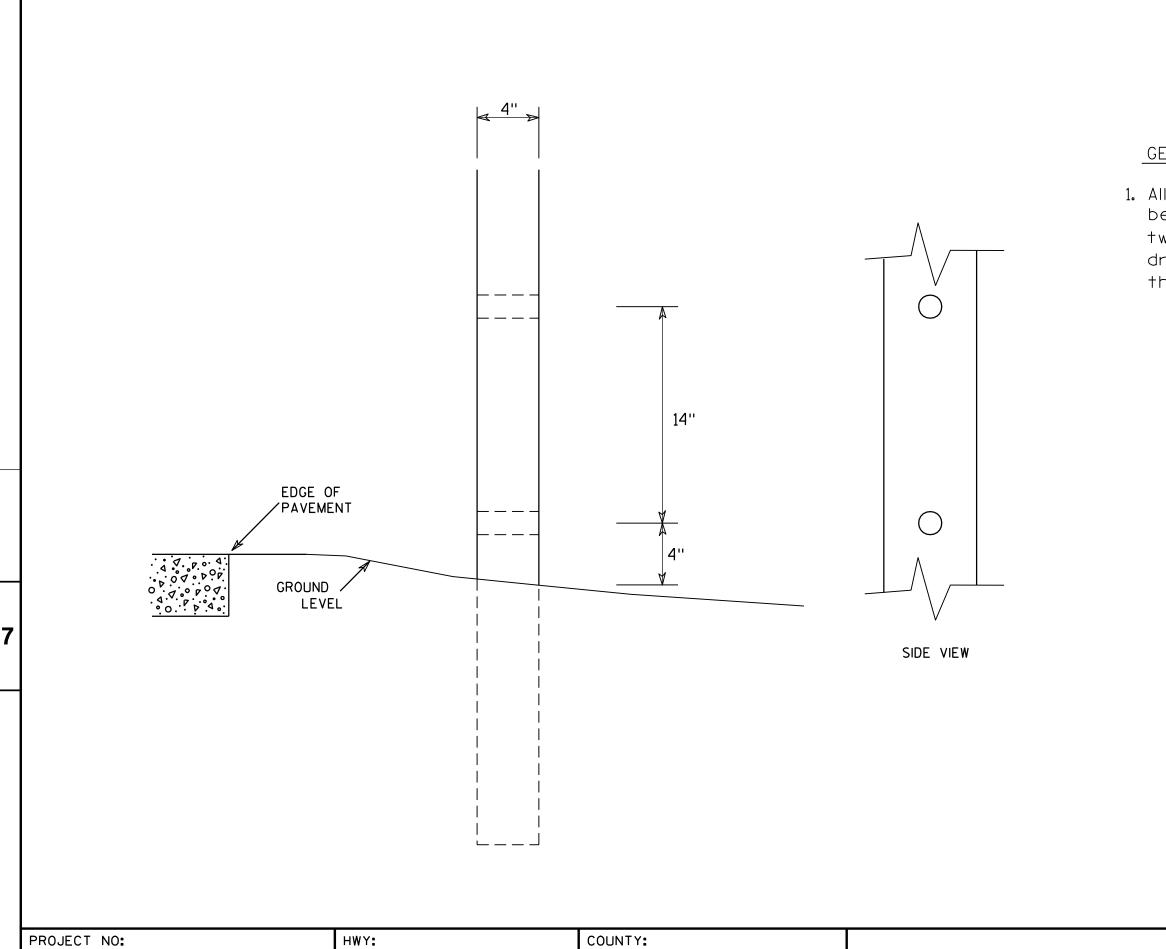
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely

 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

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)

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
<i>+or</i> State Traffic Engineer
DATE <u>4/1/202</u> 0 plate no. <u>44-8.9</u>
SHEET NO: E



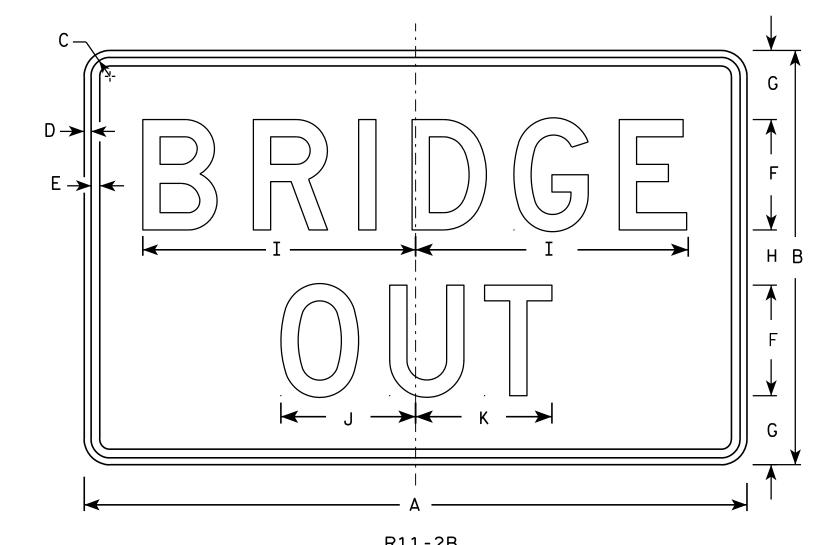


FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

	4	Х	6	WOO	DF	POST				
		MOD	IF	FICA	ΤI	ONS				
	WISCONSIN DEPT OF TRANSPORTATION									
	APPROVE	D		nester .	Γź	Spang				
			tor	State Tr	affic E	ngineer				
	DATE 3	/27/9	<u>17</u>	PLA	TE N	D. <u>44-11</u>	2			
				SHEET	N0:		E			
OT SCALE	E:6.20 7 33	8:1.0000	000	WISD	от/с	ADDS SHE	ET 42			



- 2. Color:
 - Background White Message - Black
- 3. Message Series D

$\mathbf{N}\mathbf{I}\mathbf{I}^{-}\mathbf{Z}\mathbf{D}$	R	1	1	-	2	В	
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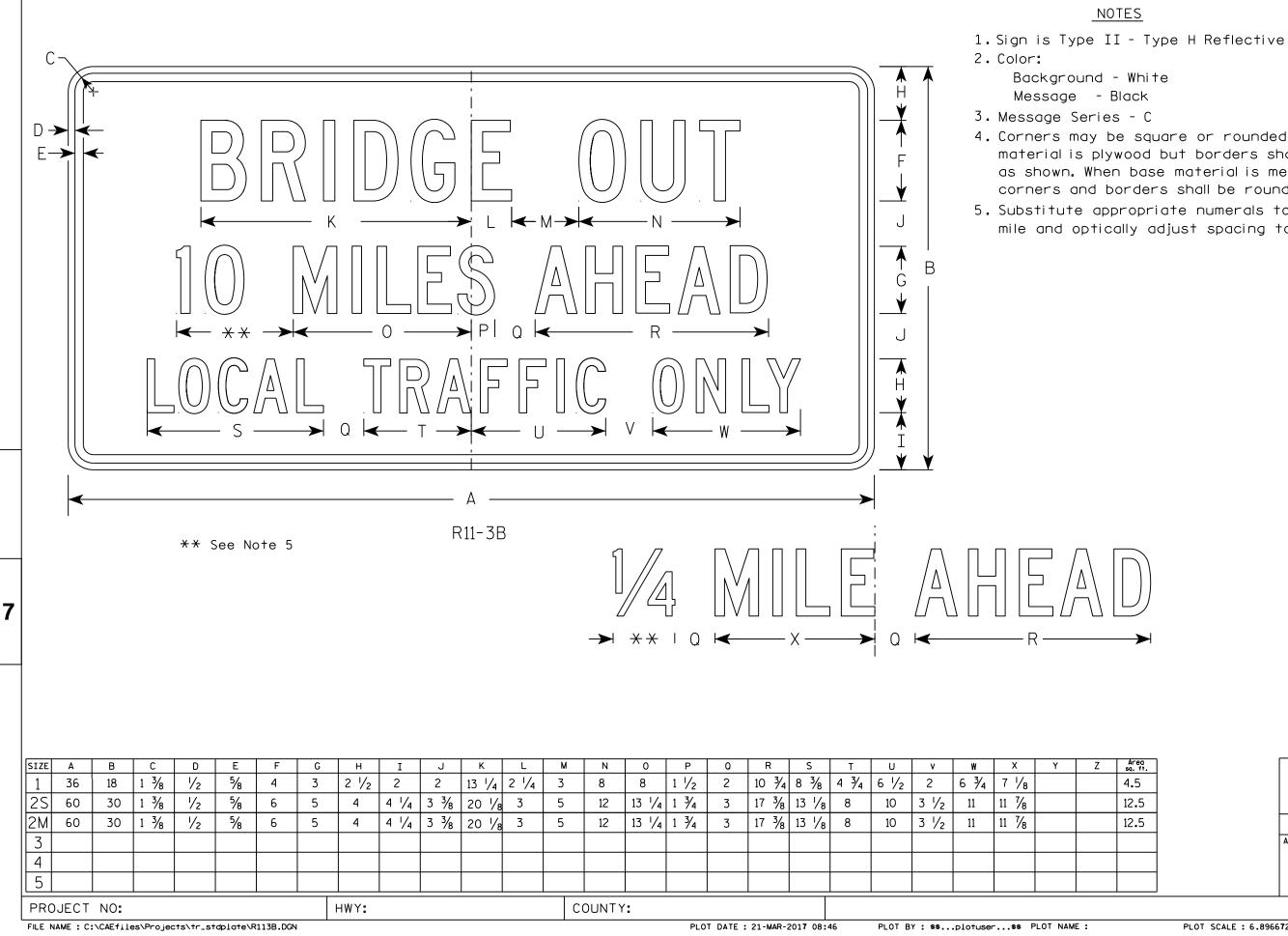
SIZE	Δ	В	C	D	E	F	G	н	I	J	к	L	м	N	0	Р	0	R	S	Т	U	v	W	X	Y	Z	Γ
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2 S	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3⁄4	9 7/8																I
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3	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3/4	9 7/8																Ī
4	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3⁄4	9 7/8																Ī
5	48	30	1 3/8	1/2	5⁄8	8	5	4	19 3⁄4	9 3/4	9 7/8																Ī
PPO	JECT	NO.																									-
FRU	JECT	NU.																									_
FILE N	AME : C:	\Users\F	ROJECTS	tr_stdpl	ate\R112	B.DGN										PLO	T DATE :	01-APR-2	2011 14:2	23	PLOT B	Y : mscj9	h				

NOTES

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

Areo	
Area sq. ft.	STANDARD SIGN
10.0	R11-2B
10.0	WISCONSIN DEPT OF TRANSPORTATION
10.0	APPROVED Matthew & Rauch
10.0	For State Traffic Engineer
10.0	DATE 4/1/11 PLATE NO. R11-2B.2
	SHEET NO: E
	SHELT NO: E

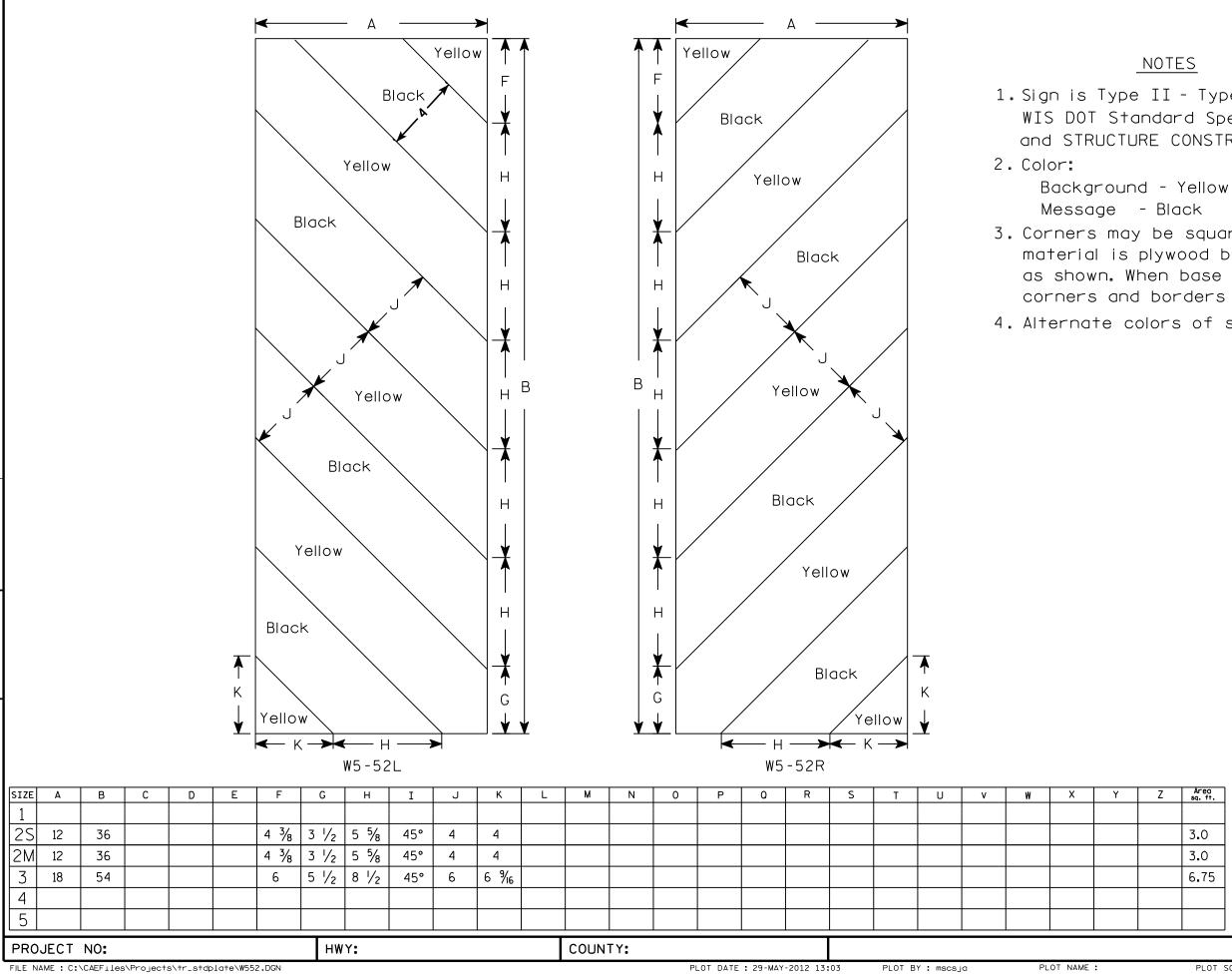
WISDOT/CADDS SHEET 42



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

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.5		S		RD SIGN	
2 . 5			R1	1-3B	
2.5		WISCON:	SIN DEPT C	OF TRANSPORTATION	/
		APPROVED	-	te Traffic Engineer	_
		DATE 3/2	21/17	PLATE NO. R11-3B.	3
			SHEET	NO:	Ε
	PLOT SCALE : 6.8966	572:1.000000) wisc	DOT/CADDS SHEE	T 42



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

7

PLOT DATE : 29-MAY-2012 13:03

PLOT NAME :

NOTES

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

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. Alternate colors of stripes as shown.

Z	Area sq. ft.	STANDARD SIGN
		W5-52L & W5-52R
	3.0	
	3.0	WISCONSIN DEPT OF TRANSPORTATION
	6.75	APPROVED Matthew R Rauch
		for State Traffic Engineer
		DATE 5/29/12 PLATE NO. W5-52.9
		SHEET NO: E
	PLOT S	SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42

JOE COULEE RD
JOE COULEE RD

		AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED))		CUMULATIVE VOL (CY)				
STATION	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL	MASS ORDINATE			
				NOTE 1	NOTE 2	NOTE 3	NOTE 1	1.25	NOTE 4			
9+25	23	7	0	0	0	0	0	0	0			
9+41	28	7	27	15	4	8	15	10	1			
9+50	21	7	56	8	2	14	23	27	-10			
9+62	19	7	68	9	3	28	32	62	-39			
9+74	18	7	22	8	3	20	40	87	-59			
10+20	16	7	22	0	0	0	40	87	-59			
10+32	15	7	54	7	3	17	47	108	-76			
10+53	22	7	47	15	5	39	62	157	-115			
10+68	25	7	15	13	4	17	75	178	-127			
10+90	24	7	0	20	5	6	95	186	-120			
				95	29	149						

NOTES:

Cut (Salvage/Unusable Pavement Material Included.)
 Salvage/Unusable Pavement Material. (This does not show up in the cross sections.)
 Fill (Does not include Unusable Pavement volume.)
 The Mass Ordinate + of - quantities calculated. Plus quantities as excess of material. Minus a shortage of material.

No Marsh of EBS is anticipated.

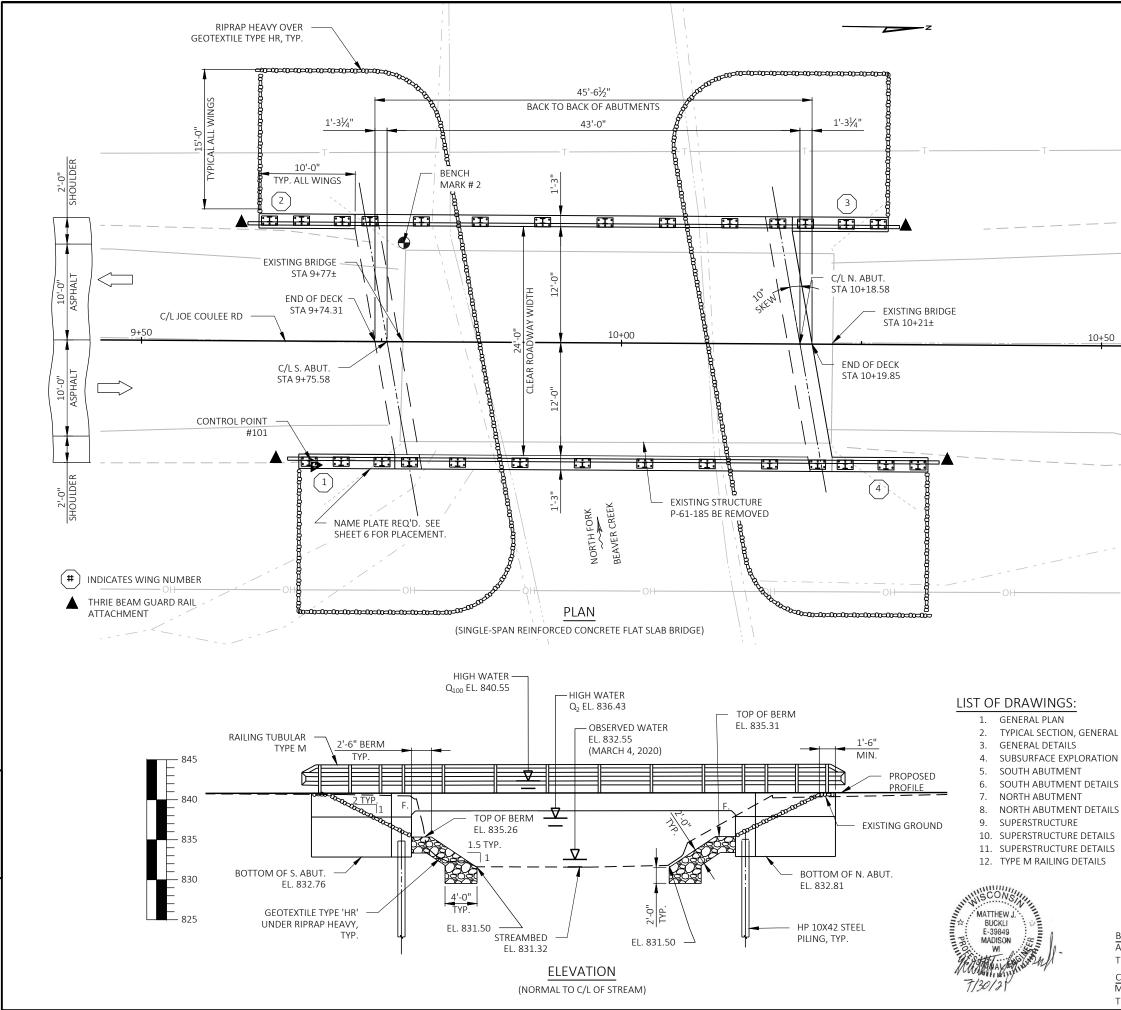
PROJECT NO: 7281-00-73	HWY: LOCAL STREET	COUNTY: TREMPEALEAU		EARTHWORK Q	UANTITIES	
FILE NAME : X:\2918800\200252.01\TECH\CAD\XXXXXXXSHEETSPLAN\030201_MQ.D'	WG	PLOT DATE :	10/19/2021 10:02 AM	PLOT BY :	JEFF BREU	PLOT NAME :

9

PLOT DATE : 10/19/2021 10:02 AM PLOT BY : JEFF BREU 9

SHEET

Ε



CTATE	DROJECT	NUMBER
STATE	PROJECT	NUMBER

7281-00-73

DES	IGN	DATA:	

LIVE LOAD: DESIGN LOADING: HL-93 INVENTORY RATING FACTOR: 1.20 OPERATING RATING FACTOR: 1.56 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY: SUPERSTRUCTURE	f'c = 4,000 ps f'c = 3,500 ps
BAR STEEL REINFORCEMENT:	<i>,</i> ,
GRADE 60	fy = 60,000 p

FOUNDATION DATA:

ABUTMENTS SUPPORTED ON HP 10X42 STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 170* TONS PER PILE AS REQUIRED BY THE MODIFIED GATES DYNAMIC EQUATION. ESTIMATED 80' LONG.

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

HYDRAULIC DATA:

100 YEAR FREQUENCY
Q ₁₀₀ = 2000 C.F.S.
VELOCITY = 8.19 F.P.S.
HW ₁₀₀ = EL. 840.55
 WATERWAY AREA = 243.9 SQ. FT.
DRAINAGE AREA = 20.0 SQ. MI.
SCOUR CRITICAL CODE = 5
 ROAD OVERTOPPING FREQUENCY

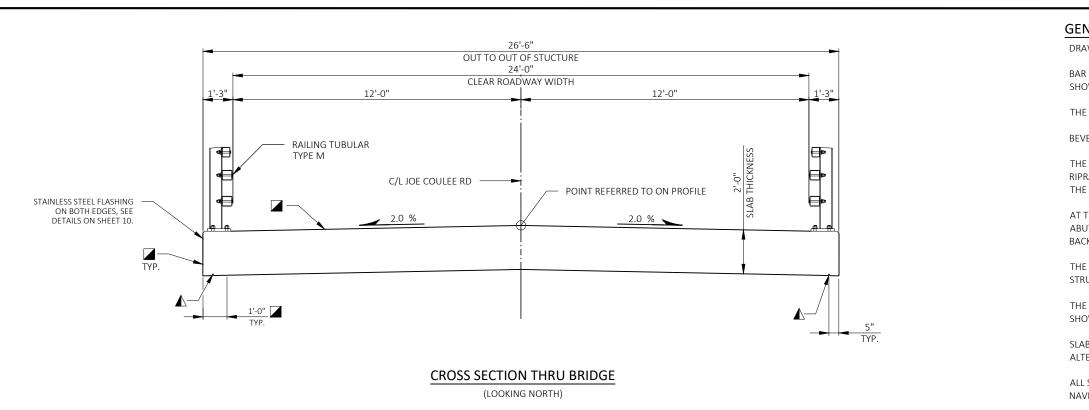
FREQUENCY = 99 YEARS Q₉₉= 1972 C.F.S. HW₉₉= EL. 840.45

$\frac{2 \text{ YEAR FREQUENCY}}{Q_2 = 450 \text{ C.F.S.}}$ VELOCITY = 3.0 F.P.S. HW₂ = EL. 836.43

- O TRAFFIC DATA:

ADT (2022) =	90
ADT (2042) =	100
DESIGN SPEED =	40 MPH

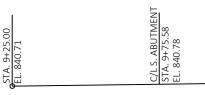
AL NOTES & QUANTITIES	NO.	DATE		REV	ISION			BY	
N			Mea		1	2440	& Hunt, Deming ' ton, WI 5	Way	
ILS		6	Hu	<u>nt</u>	Ň		3.273.638 neadhun		
ILS			STA DEPARTM		WISCON		TION		8
LS LS	ACC	EPTED _	CHIEF STRUC	TURES DE	e hand	~	1 <u>1/2</u>	4/21 DATE	
		S	TRUCTI	JRE E	8-61-2	45			
	J cou	NTY	ULEE ROAE		NORTH TOWN /C		ACE	R CREEK	
BRIDGE OFFICE CONTACT	AA	GN SPEC.	D BRIDGE DESI		FICATIONS		PLANS	TINICK	
AARON BONK, P.E. TELEPHONE: (608) 261-0261	BY	T	ГJR ск'd.	RCP			CK'D.	RCP OF 12	
CONSULTANT CONTACT MATT BUCKLI, P.E.		GE	ENERAL	PLA	N	SHE	EI 1	OF 12	
TELEPHONE: (608) 443-0441									
PLOT SCALE :									



TOTAL ESTIMATED QUANTITIES

8

BID ITEM NO.	BID ITEMS	UNIT	S ABUT	N ABUT	SUPER	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-61-185	LS				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-61-245	LS				1
210.1500	BACKFILL STRUCTURE TYPE A	TON	113	113		226
502.0100	CONCRETE MASONRY BRIDGES	CY	27.7	27.9	93.3	149
502.3200	PROTECTIVE SURFACE TREATMENT	SY	11	11	165	187
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1530	1530		3060
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1410	1410	17070	19890
513.4061	RAILING TUBULAR TYPE M B-61-245	LF				136
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9	9		18
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	320	320		640
606.0300	RIPRAP HEAVY	CY	78	78		156
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	62	62		124
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	26	26		52
645.0120	GEOTEXTILE TYPE HR	SY	170	170		340
SPV.0090.01	FLASHING STAINLESS STEEL	LF			92	92
	NON BID ITEMS		1			I
	FILLER	SIZE				1/2" & 3/4



PROFILE

		BENCH	IMARKS
NO.	STATION	ELEV.	DESCRIF
BM1	7+44.8, 00.0' RT	840.17	MAG NAIL IN ROAD
BM2	9+77.3, 10.3' LT	839.48	MAG NAIL IN SW A
BM3	12+80.7, 00.0' RT	840.68	MAG NAIL IN ROAD

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

STATE PROJECT NUMBER

7281-00-73

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

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

BEVEL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

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

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

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

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

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

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO NAVD88 (1991) DATUM.

THE EXISTING STRUCTURE TO BE REMOVED IS A 44.5' LONG BY 19.7' CLEAR ROADWAY WIDTH, TWO-SPAN STEEL DECK GIRDER BRIDGE (P-61-185). A REHABILITATION PROJECT ADDED 4 H-PILE AT THE SOUTH ABUTMENT.

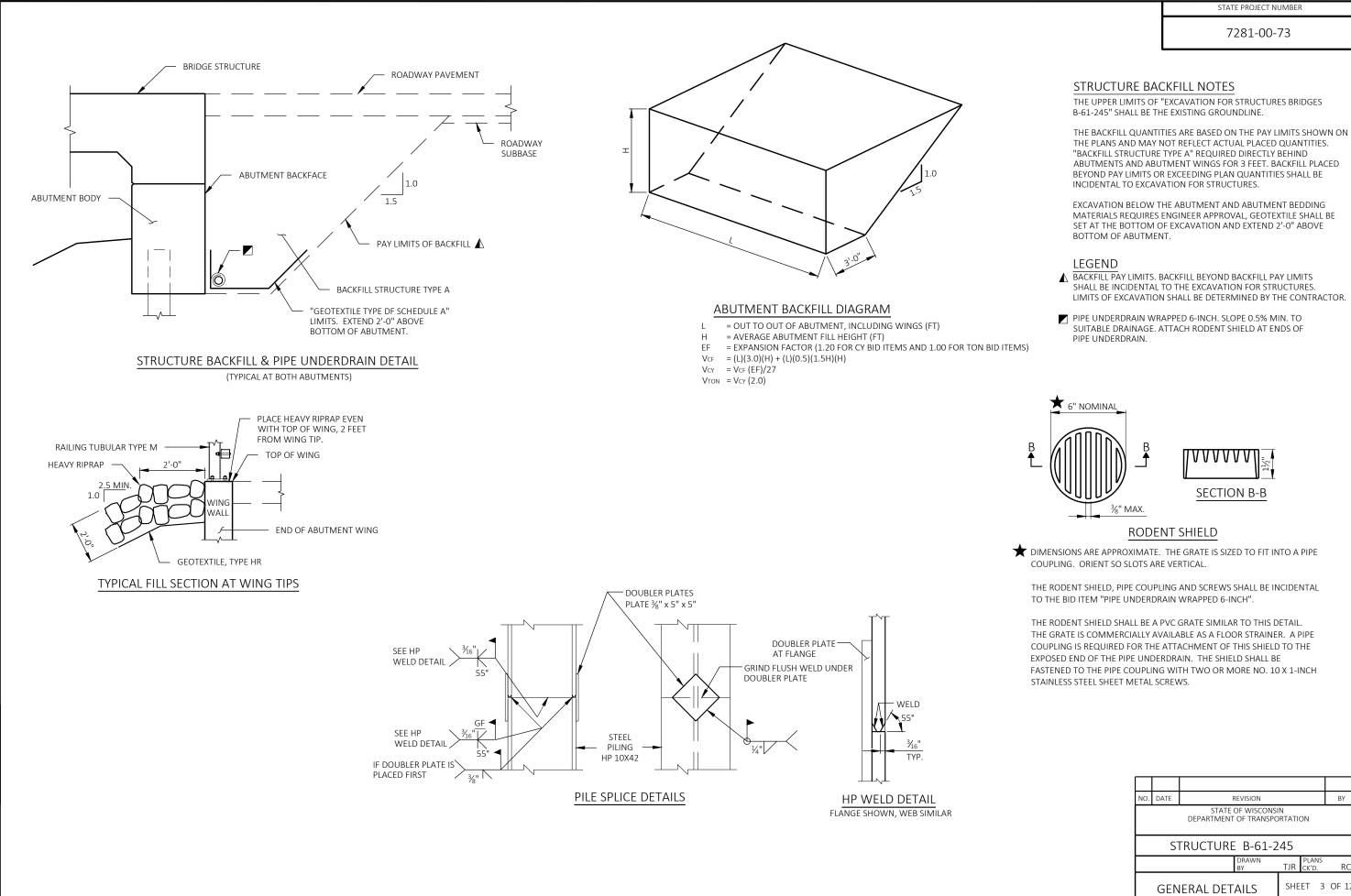
CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATION.

▲ ¾" V-GROOVE REQ'D. EXTEND TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGM.

COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-0" OF THE FRONT FACE OF ABUTMENT.

TC C/L N. ABUTMENT STA. 10+18.58	EL. 840.83	<u>5TA. 10+90.00</u> EL. 840.92		8
				-
NO.	DATE	REVISION	BY	-
	BATE	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		

		STRUCTURE	B 61 2	15			
IPTION							
DWAY (CP #100)			DRAWN BY	TJR	PLANS CK'D.	RCP	
ABUTMENT		TYPICAL SECTION,			SHEET 2 OF 12		
DWAY (CP #102)							
		GENERAL NOTES & QUANTITIES					

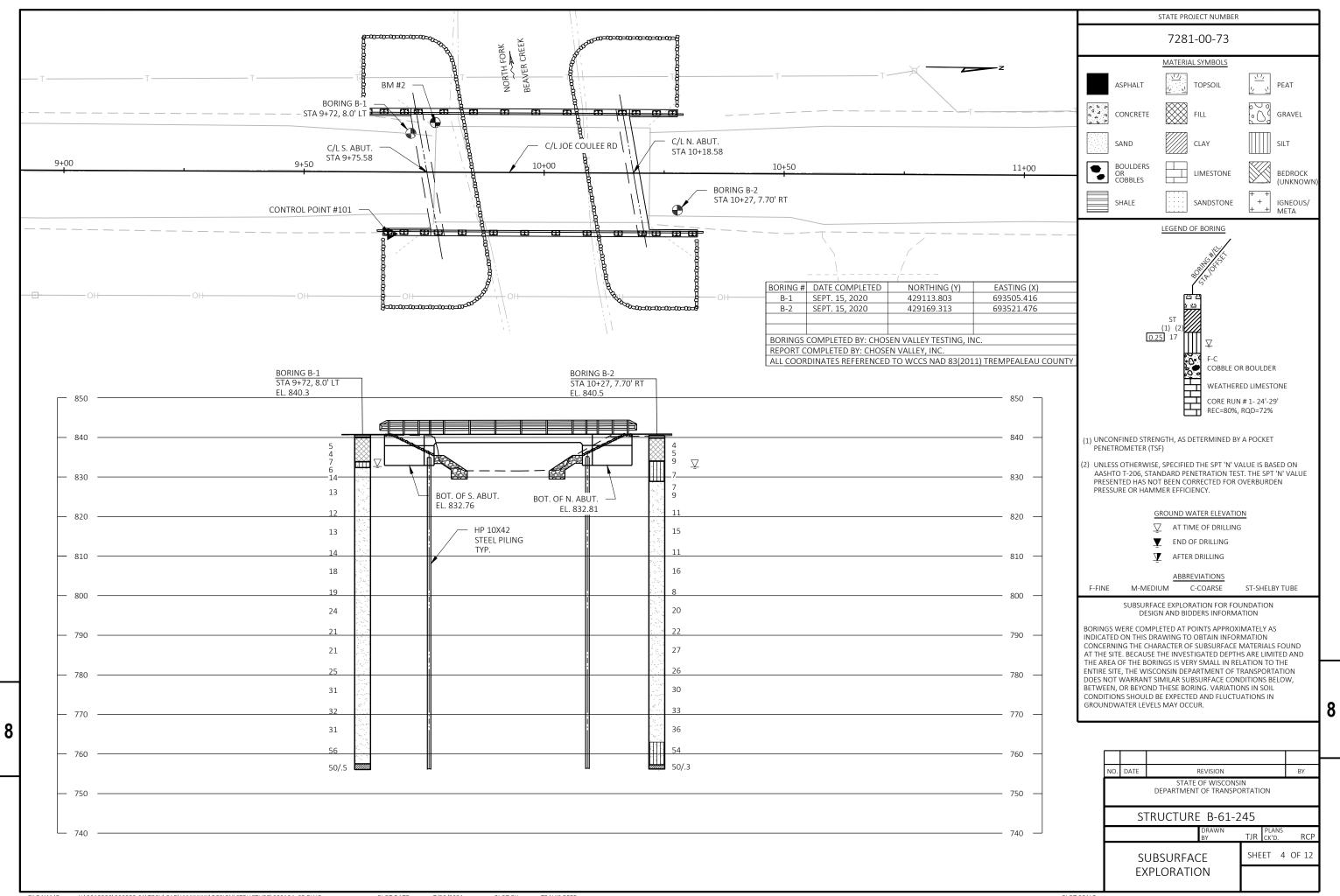


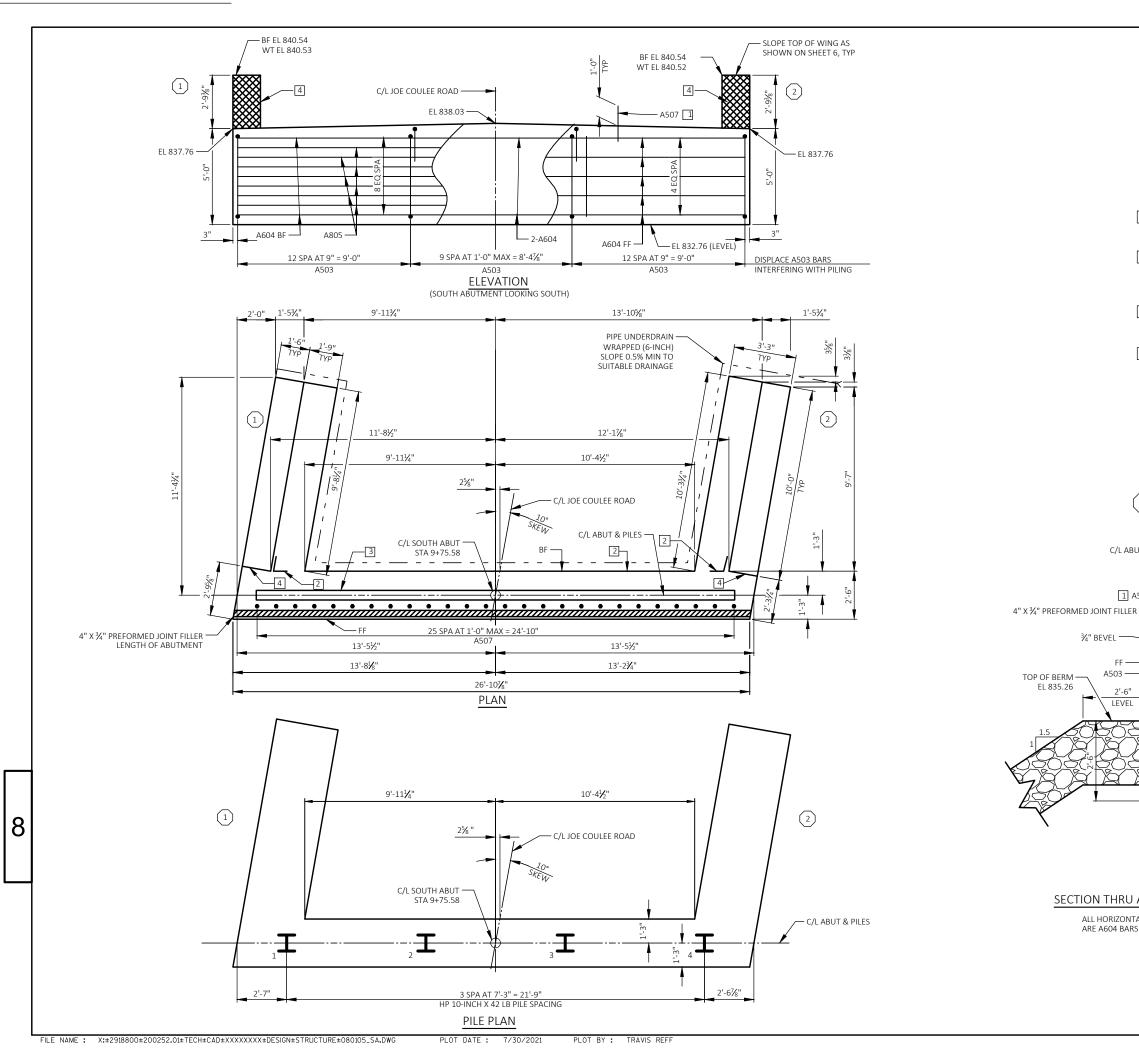
ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED

SHALL BE INCIDENTAL TO THE EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

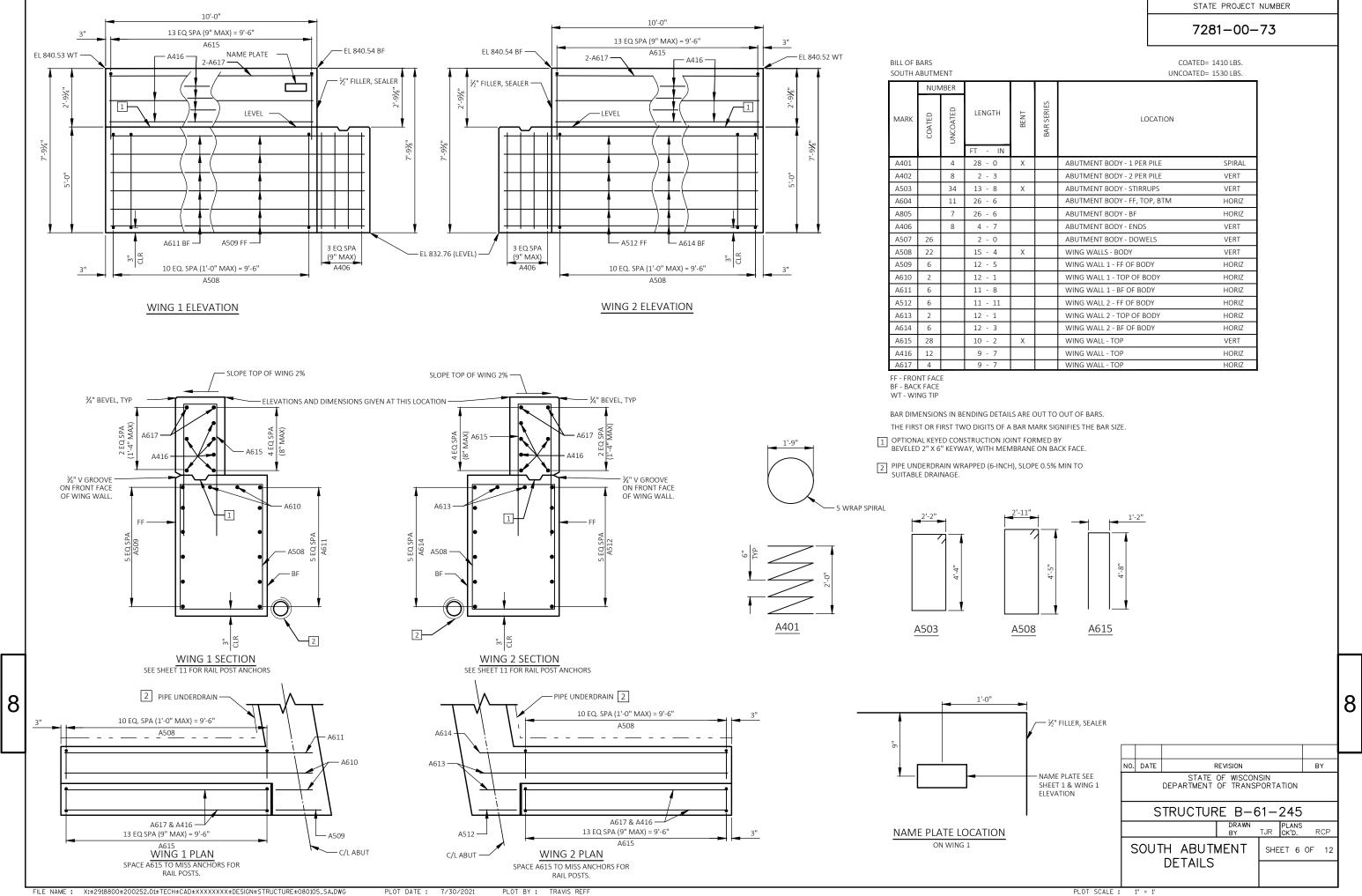
							8
NO.	DATE		REVISION			BY	
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
	STRUCTURE B-61-245						
			DRAWN BY	TJR CK	ANS 'D.	RCP	
	GEN	IERAL DET	AILS	SHEET	3	OF 12	

PLOT SCALE :



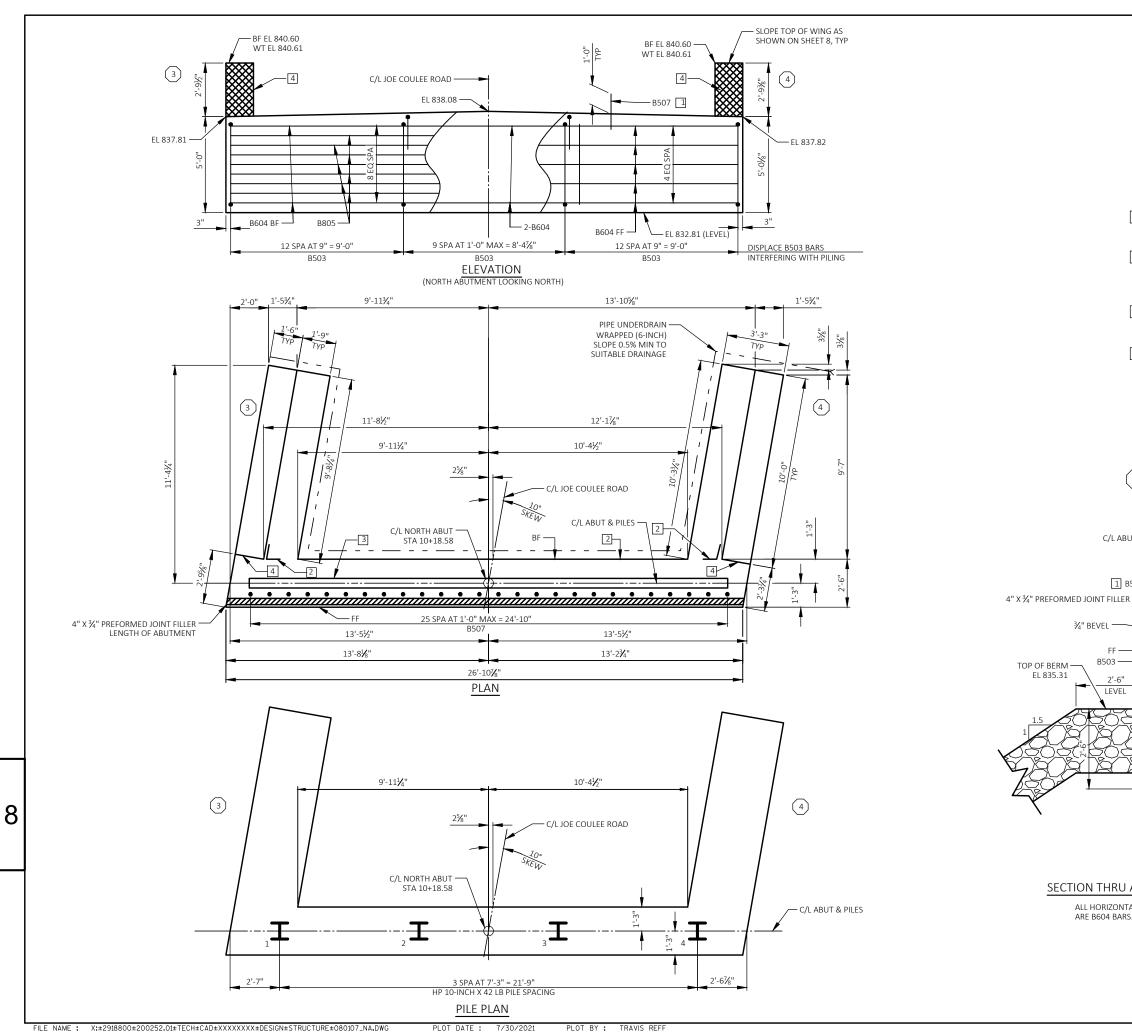


	NOTEC	STATE PROJECT I	NUMBER		
	NOTES FOR PILE SPLICE DETAIL SEE SHEET 3.	7281–00–	73		
	FILL/EXCAVATE TO BOTTOM OF ABUTMI PILING.	ENT EL 832.76 BEFORE DRIVING			
	SEE SHEET 3 FOR STRUCTURE BACKFILL	AND PIPE UNDERDRAIN DETAIL.			
	ABUTMENT SUPPORTED ON 10X42 H-PI DRIVING RESISTANCE OF 170 TONS PER THE MODIFIED GATES DYNAMIC EQUAT	PILE AS DETERMINED BY			
1	A507 BARS MAY BE PLACED AFTER CON INITIAL SETTING HAS TAKEN PLACE.	CRETE IS POURED, BUT BEFORE			
2	18" RUBBERIZED MEMBRANE WATERPR VERTICAL JOINTS ON BACK FACE. EXTEN WING.		D		
3	KEYED CONSTRUCTION JOINT FORMED E TERMINATE 1'-0" FROM ABUTMENT EN				
4	1/2" FILLER - TO EXTEND FROM BRIDGE ST INCLUDED IN WING LENGTH. SEAL ALL E SURFACES OF 1/2" FILLER WITH NON-STA SEALER. (1" DEEP AND HOLD 1/2" BELOW SEALER 3" BELOW GUTTER LINE AT INSI	XPOSED HORIZONTAL AND VERTICA INING GRAY NON-BITUMINOUS JOII SURFACE OF CONCRETE). EXTEND			
	FF - FRONT FACE BF - BACK FACE WT - WING TIP				
#	INDICATES WING NUMBER				
JT &	PILES	, ^a .t			
507 -		0 TO 3}			
		<u>+</u>			
	HI HOLD HARD	5-0" 5-0" 5-0"			
		∞ ⊇			
\leq					
	SLOP T T T T T T T T T T T T T	JNDERDRAIN WRAPPED (6-INCH), E 0.5% MIN TO SUITABLE DRAINAGE CH RODENT SHIELD AT ENDS OF JNDERDRAIN AS SHOWN ON SHEET ITEEL PILING			8
	JTMENT BODY NO. D/	ATE REVISION STATE OF WISCONS DEPARTMENT OF TRANSP		BY	
ò.		STRUCTURE B-6	1-245		
		DRAWN	TJR CK'D.	RCP	
	SO	UTH ABUTMENT	SHEET 5 (DF 12	

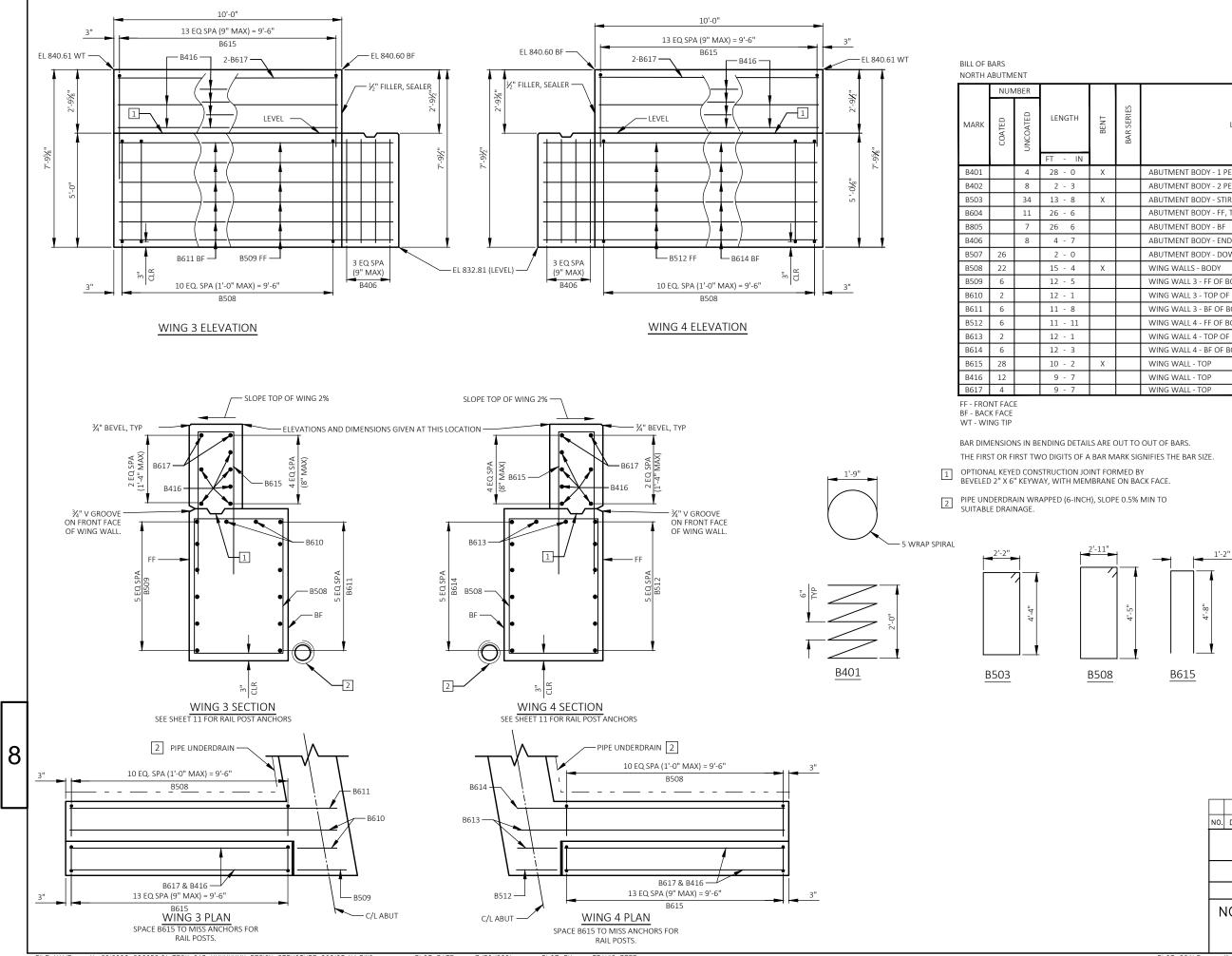


FILE NAME : X:±2918800±200252.01±TECH±CAD±XXXXXXX±DESIGN±STRUCTURE±080105_SA.DWG PLOT DATE : 7/30/2021 PLOT BY : TRAVIS REFF

H	BENT	BAR SERIES	LOCATION	
	Х		ABUTMENT BODY - 1 PER PILE	SPIRAL
			ABUTMENT BODY - 2 PER PILE	VERT
	Х		ABUTMENT BODY - STIRRUPS	VERT
			ABUTMENT BODY - FF, TOP, BTM	HORIZ
			ABUTMENT BODY - BF	HORIZ
			ABUTMENT BODY - ENDS	VERT
			ABUTMENT BODY - DOWELS	VERT
	Х		WING WALLS - BODY	VERT
			WING WALL 1 - FF OF BODY	HORIZ
			WING WALL 1 - TOP OF BODY	HORIZ
			WING WALL 1 - BF OF BODY	HORIZ
1			WING WALL 2 - FF OF BODY	HORIZ
			WING WALL 2 - TOP OF BODY	HORIZ
			WING WALL 2 - BF OF BODY	HORIZ
	Х		WING WALL - TOP	VERT
			WING WALL - TOP	HORIZ
			WING WALL - TOP	HORIZ



	STATE PROJECT NUMBER	
NOTES FOR PILE SPLICE DETAIL SEE SHEE	7081 00 77	
FILL/EXCAVATE TO BOTTOM OF A PILING.	ABUTMENT EL 832.81 BEFORE DRIVING	
SEE SHEET 3 FOR STRUCTURE BA	ACKFILL AND PIPE UNDERDRAIN DETAIL.	
ABUTMENT SUPPORTED ON 10X DRIVING RESISTANCE OF 170 TO THE MODIFIED GATES DYNAMIC		
B507 BARS MAY BE PLACED AFTE I INITIAL SETTING HAS TAKEN PLACED	ER CONCRETE IS POURED, BUT BEFORE ICE.	
	ATERPROOFING. SEAL ALL HORIZONTAL AND E. EXTEND FROM BRIDGE SEAT TO TOP OF	
KEYED CONSTRUCTION JOINT FO 3 TERMINATE 1'-0" FROM ABUTMI	DRMED BY BEVELED 2" X 6" KEYWAY. IENT ENDS.	
4 INCLUDED IN WING LENGTH. SEA SURFACES OF ½" FILLER WITH NO	RIDGE SEAT TO TOP OF WING. FILLER AL ALL EXPOSED HORIZONTAL AND VERTICAL ION-STAINING GRAY NON-BITUMINOUS JOINT BELOW SURFACE OF CONCRETE). EXTEND AT INSIDE FACE.	
FF - FRONT FACE BF - BACK FACE WT - WING TIP		
# INDICATES WING NUMBER		
	4 EQUAL SPA FF 4 EQUAL SPA FF 5-0" 5-0"	
	PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS SHOWN ON SHEET 3. P10X42 STEEL PILING	3
ABUTMENT BODY	NO. DATE REVISION BY STATE OF WISCONSIN	
AL BARS NOT LABELED 5.	DEPARTMENT OF TRANSPORTATION	
	STRUCTURE B-61-245	
	NORTH ABUTMENT SHEET 7 OF 12	
PLOT SCALE :	1" = 1'	



FILE NAME : X:±2918800±200252.01±TECH±CAD±XXXXXXX±DESIGN±STRUCTURE±080107_NA.DWG PLOT DATE : 7/30/2021 PLOT BY : TRAVIS REFF

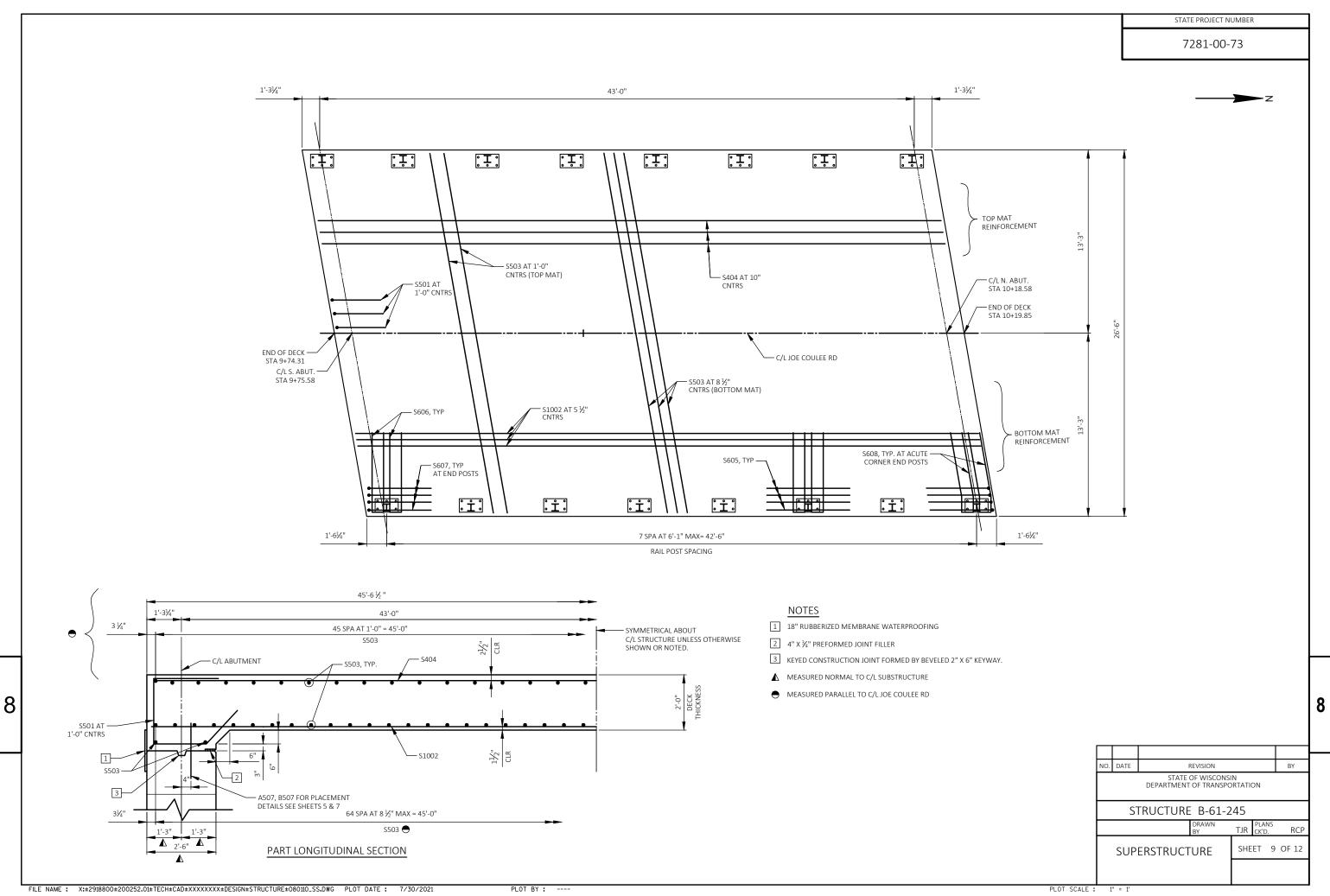
STATE PROJECT NUMBER

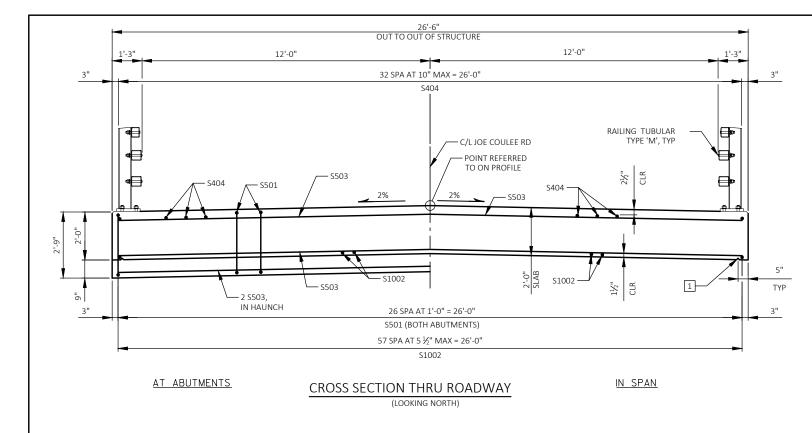
7281-00-73

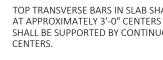
COATED= 1410 LBS. UNCOATED= 1530 LBS.

H	BENT	BAR SERIES	LOCATION	
	Х		ABUTMENT BODY - 1 PER PILE	SPIRAL
			ABUTMENT BODY - 2 PER PILE	VERT
	Х		ABUTMENT BODY - STIRRUPS	VERT
			ABUTMENT BODY - FF, TOP, BTM	HORIZ
			ABUTMENT BODY - BF	HORIZ
			ABUTMENT BODY - ENDS	VERT
			ABUTMENT BODY - DOWELS	VERT
	Х		WING WALLS - BODY	VERT
			WING WALL 3 - FF OF BODY	HORIZ
			WING WALL 3 - TOP OF BODY	HORIZ
			WING WALL 3 - BF OF BODY	HORIZ
1			WING WALL 4 - FF OF BODY	HORIZ
			WING WALL 4 - TOP OF BODY	HORIZ
			WING WALL 4 - BF OF BODY	HORIZ
	Х		WING WALL - TOP	VERT
			WING WALL - TOP	HORIZ
			WING WALL - TOP	HORIZ

NO.	DATE	f	REVISION			BY
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION					
STRUCTURE B-61-245						
			DRAWN BY	TJR	PLANS CK'D.	RCP
NORTH ABUTMENT DETAILS				SHE	ET 8	OF 12





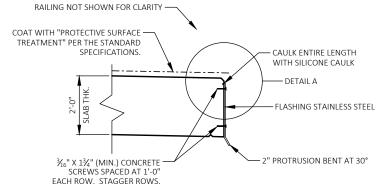


NOTES:

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

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS AND AT $\frac{5}{10}$ PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGES OF DECK AND C/L.

1 ¾" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGM. V-GROOVES ARE REQUIRED.



PROTECTIVE SURFACE TREATMENT AND FLASHING DETAIL

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING, SILICONE CAULK, $36^{\prime\prime}$ Concrete screws and cleaning the edge of the deck prior to attachment of the FLASHING.

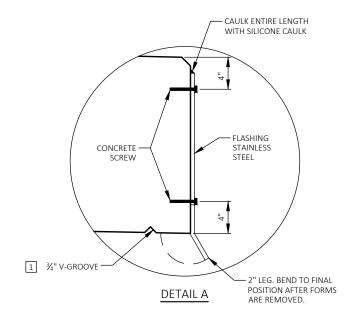
CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

EXTEND FLASHING TO B.F. OF ABUTMENT DIAPHRAGM.

FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE TREATMENT APPLICATION.

TOP OF FLASHING TO BEGIN APRROX. 1-INCH BELOW TOP OF SLAB SURFACE.

THE FLASHING IS TO BE A CONSTANT HEIGHT BASED ON THE THINNEST SLAB DEPTH OVER THE BRIDGE LENGTH.



FILE NAME : X:±2918800±200252.01±TECH±CAD±XXXXXXX±DESIGN±STRUCTURE±080110_SS.DWG PLOT DATE : 7/30/2021 PLOT BY : TRAVIS REFF

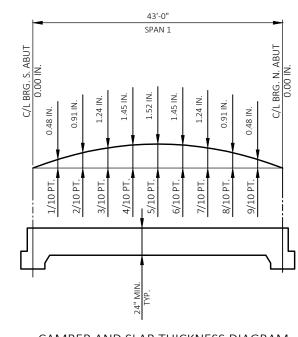
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STATE PROJECT NUMBER

7281-00-73

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

1							
		DATE					
	NO.	DATE		REVISION			BY
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
	STRUCTURE B-61-245						
				DRAWN BY	TJR	PLANS CK'D.	RCP
		SUP	JPERSTRUCTURE		SHE	ET 10	OF 12
			DETAILS				
PLOT SCALE :	1	" = 1'					



CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTION.

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

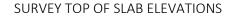
TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB AND CROWN FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE MINUS..... SLAB THICKNESS

PLUS..... CAMBER

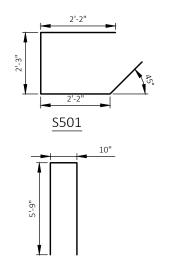
PLUS...... FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY CONTRACTOR)

EQUALS = TOP OF SLAB FALSEWORK ELEVATION

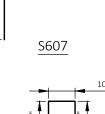


	C/L BRG. SOUTH ABUTMENT	5/10 PT.	C/L BRG. NORTH ABUTMENT
WEST EDGE OF SLAB			
C/L JOE COULEE ROAD / CROWN			
EAST EDGE OF SLAB			

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



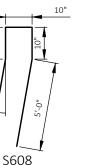
S606



11

--e"

TOP OF SLAB ELEVATIONS									
	WEST I	DGE	CENTERLIN	e/crown	EAST EDGE				
SPAN PT.	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION			
S. ABUT.	9 + 73.24	840.51	9 + 75.58	840.78	9 + 77.92	840.51			
0.1	9 + 77.54	840.51	9 + 79.88	840.78	9 + 82.22	840.52			
0.2	9 + 81.84	840.52	9 + 84.18	840.79	9 + 86.52	840.52			
0.3	9 + 86.14	840.52	9 + 88.48	840.79	9 + 90.82	840.53			
0.4	9 + 90.44	840.53	9 + 92.78	840.80	9 + 95.12	840.54			
0.5	9 + 94.74	840.54	9 + 97.08	840.80	9 + 99.42	840.54			
0.6	9 + 99.04	840.54	10 + 01.38	840.81	10 + 03.72	840.55			
0.7	10 + 03.34	840.55	10 + 05.68	840.81	10 + 08.02	840.55			
0.8	10 + 07.64	840.55	10 + 09.98	840.82	10 + 12.32	840.56			
0.9	10 + 11.94	840.56	10 + 14.28	840.83	10 + 16.62	840.56			
N. ABUT	10 + 16.24	840.56	10 + 18.58	840.83	10 + 20.92	840.57			



TOP O	F
SPAN PT.	┝
S. ABUT.	
0.1	
0.2	
0.3	
0.4	
0.5	
0.6	
0.7	
0.8	
0.9	
NI ADUT	17

BILL OF BARS

MARK

S501

S1002

S503

S404

S605

S606

S607

S608

SUPERSTRUCTURE

NUN

VTED

54

58

115

33

48

28

16

4

8

STATE PROJECT NUMBER

7281-00-73

COATED= 17070 LBS. UNCOATED= 0 LBS.

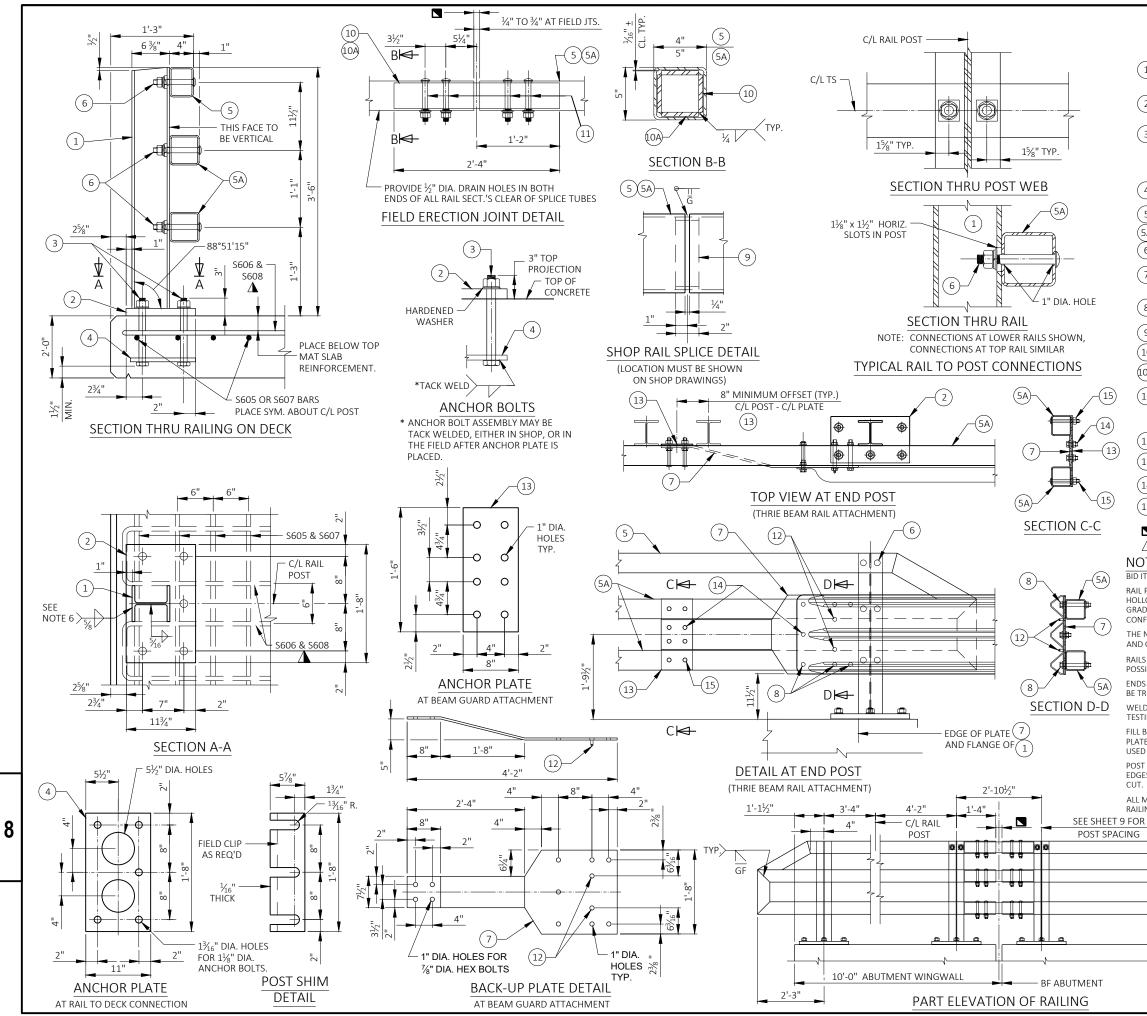
1BER	R									
UNCOATED	LENGTH		LENGTH		LENGTH		BENT	BAR SERIES	LOCATION	
	FT	-	IN							
	8	-	5	Х		SLAB - ABUTMENT TIES	LONGIT			
	45	-	2			SLAB - BOTTOM	LONGIT			
	26	-	6			SLAB - TOP & BOTTOM	TRANS			
	45	-	2			SLAB - TOP	LONGIT			
	6	-	0			RAILING ANCHORS	LONGIT			
	12	-	0	Х		RAILING ANCHORS	TRANS			
	5	-	8	Х		RAILING ANCHORS AT END POSTS	LONGIT			
	12	-	3	Х		RALING ANCHORS AT CORNERS	TRANS			

BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

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

					ð
NO.	DATE	REVISION		BY	
		STATE OF WISCONS DEPARTMENT OF TRANSPO			
	S	TRUCTURE B-61-2	245		
		DRAWN BY	TJR CK'D.	RCP	
C	CAME	BER AND BILL OF	SHEET 11	OF 12	
		BARS			
1	" = 1				

PLOT SCAL



FILE NAME : X:\2918800\200252.01\TECH\CAD\XXXXXX\DESIGN\STRUCTURE\080113_RL.DWG PLOT DATE : 7/30/20

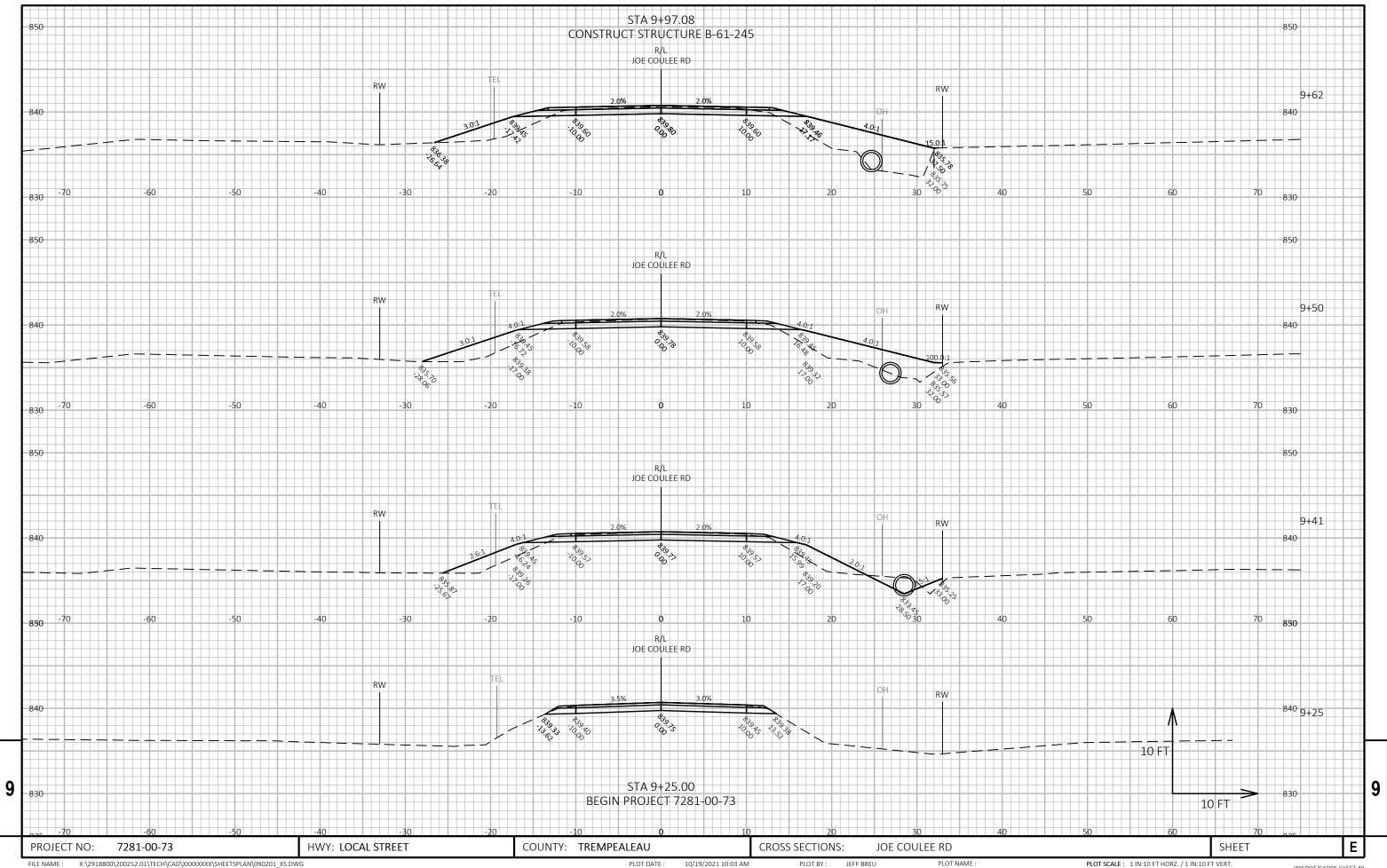
PLOT DATE : 7/30/2021 PLOT BY : TRAVIS REFF

STATE PROJECT NUMBER

7281-00-73

LEGEND (1) W6 x 25 WITH $1\frac{1}{8}$ " X $1\frac{1}{2}$ " HORIZONTAL SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE. (2) PLATE $1\frac{1}{4}$ " x $11\frac{3}{4}$ " x 1^{-8} " WITH $1\frac{7}{16}$ " DIA. OVERSIZED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. (3) ASTM A449 - 11%" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2 CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG IN WINGS AND 1'-3" LONG IN SLAB. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR CONSTRUCTABILITY.) (4) %" x 11" x 1'-8" anchor plate (Galvanized) with $1\rlap{k}_{16}"$ dia. Holes for anchor bolts no. 3 5 TS 5 x 4 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6 (5A) TS 5 x 5 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6 %'' dia. A325 slotted round head bolt with Nut, $\%'_{16}$ " X 1%'' X 1%'' Min. Washer, and lock washer (2 Req'd. At each rail to post location.) (6) %'' Thk. Back-up plate with 2 - %'' X 1%'' Threaded shop welded studs (no. 12). Bolt to rail as shown in detail. Required at thrie beam guard rail attachments ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO. 5A. (8) 1" DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5A FOR $\frac{7}{8}$ " DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO. 7. (9) SPLICE SLEEVE FABRICATED FROM ¼" PLATE. PROVIDE "SLIDING FIT" (10) ¾"X 35%"X 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A. (IOA) ³/₈" X 2⁵/₈" X 2'-4" PLATE USED IN NO. 5, ³/₈" X 3⁵/₈" X 2'-4" PLATE USED IN NO. 5A. 2 PER RAIL. LONGIT. SLOTTED HOLES IN PLATE NO. 10A. AT FIELD JOINTS AND $^{15}\!\!/_{16}$ " X $2^{1}\!\!/_{4}$ " MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A. PROVIDE ¹⁵/₁₆" DIA. ROUND HOLES IN TUBES NO. 5 AND NO. 5A. (12) $\frac{7}{8}$ " dia. X 1 $\frac{1}{2}$ " long threaded shop welded studs (2 req'd). 13% X 8" X 1'-6" plate. Bolt to rail as shown in detail. Req'd. At three beam guard rail attachments only. Place Sym. About tubes No. 5a. (14) %" dia. X 2" long A325 Hex bolt with NUT and Washer (5 Req'd.). (15) 1" DIA. HOLES IN TUBES NO. 5A FOR 7%" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4 REQ'D.). 4 HOLES IN TUBES. Ŋ ¼" TO ¾" OPENING AT ABUTMENT. TIE TO TOP MAT OF STEEL. NOTES BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-61-245" WHICH INCLUDES ALL ITEMS SHOWN. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY SSPC SPECIFICATIONS. 8 D. DATE REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-61-245 TJR CK'D RCF **TYPE M RAILING** SHEET 12 OF 12

DETAILS



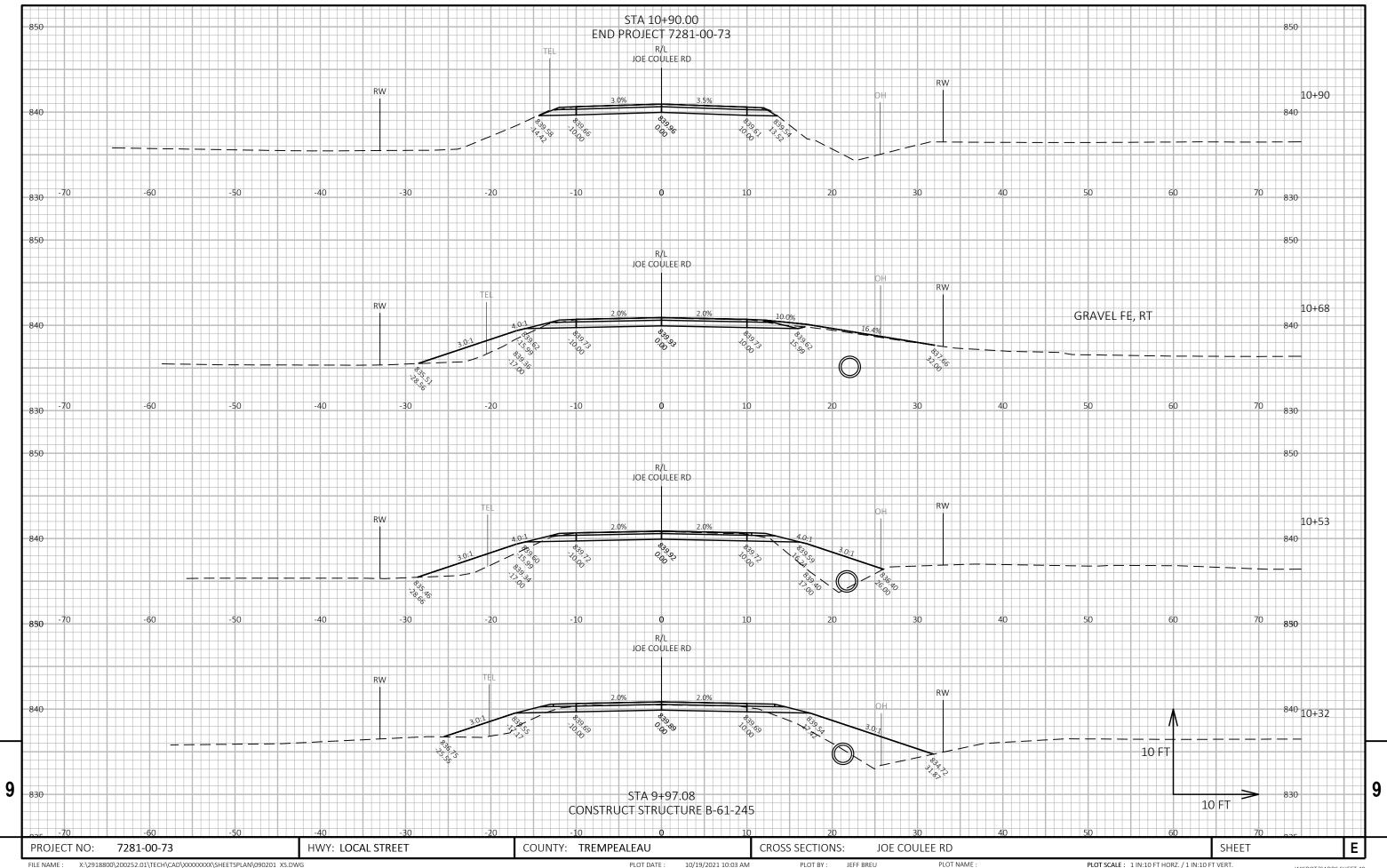
X:\2918800\200252.01\TECH\CAD\XXXXXX\SHEETSPLAN\090201_XS.DWG LAYOUT NAME - 090201_xs

PLOT NAME :

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

WISDOT/CADDS SHEET 49

PLOT DATE : 10/19/2021 10:03 AM



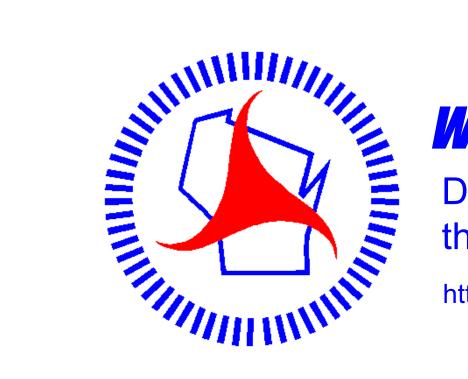
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PLOT NAME :

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

WISDOT/CADDS SHEET 49

PLOT DATE : 10/19/2021 10:03 AM PLOT BY : JEFF BREU



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov



EAU WITH: PROJECT ID: 7281-00-73

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Section No Title Section No. Typical Sections and Details 2 Section No. Estimate of Quantities 3 Section No. Miscellaneous Quantities ht of May Pla Section No. 5 Plan and Profile Standard Detail Drawings Section No. Sign Plates Section No Section No. Structure Plans Section No. Computer Earthwork Data

Section No. **Cross Sections**

TOTAL SHEETS = 56

MARCH 2022

ORDER OF SHEETS

DESIGN DESIGNATION

A.A.D.T.	2022	=	25
A.A.D.T.	2042	=	40
D.H.V.		=	2
D.D.		=	50/50
т.		=	10%
DESIGN SPEED		=	40 MPH
ESALS		=	7,200

CONVENTIONAL SYMBOLS

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

WOODED OR SHRUB AREA

1.	PROFILE GRADE LINE
	ORIGINAL GROUND
	MARSH OR ROCK PROFILE (To be noted as such)
-	SPECIAL DITCH
	GRADE ELEVATION
-	CULVERT (Profile View)
	UTILITIES
	FIBER OPTIC
	GAS
	SANITARY SEWER
	STORM SEWER
	TELEPHONE
	WATER
~	UTILITY PEDESTAL POWER POLE
	TELEPHONE POLE

~-~

ROCK

LABEL

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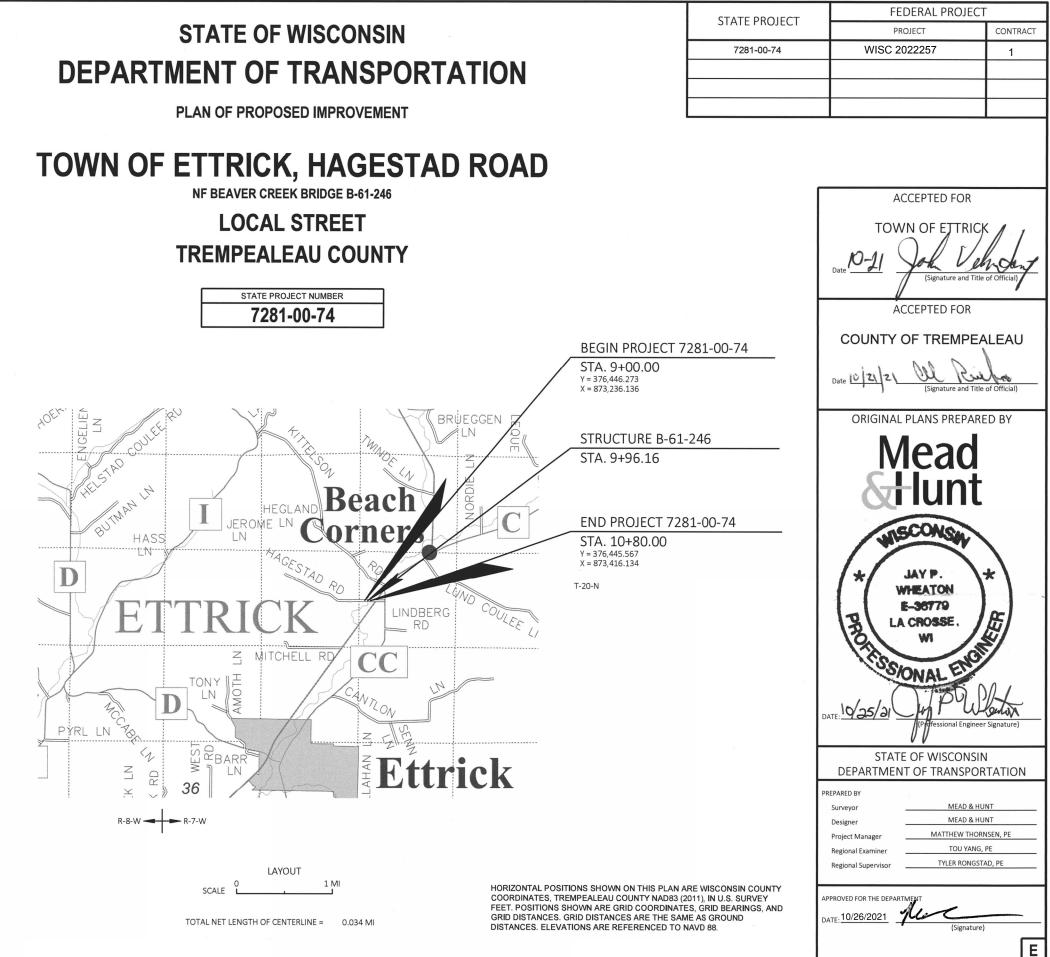
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LOCAL STREET

7281-00-74



FILE NAME : X:\2918800\200250.01\TECH\CAD\72810074\SHEETSPLAN\010101_TI.DWG

PLOT DATE : 10/19/2021 7:33 AM PLOT BY :

PLOT NAME

JEFF BREU

00 1-00-74

RUNOFF COEFFICIENT TABLE

GENERAL NOTES

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

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

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD. SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO BRIDGE REMOVAL.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOIL, FERTILIZED, SEEDED AND EROSION MAT URBAN CLASS I, TYPE B OR MULCHING.

BEARINGS SHOWN ON THE PLANS ARE GROUND BEARINGS TO THE NEAREST SECOND.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING PAVEMENTS AT REMOVAL LIMITS.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIALS WILL NOT BE PERMITTED IN THE WETLANDS.

WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS. DO NOT OPERATE EQUIPMENT OUTSIDE THE SLOPE INTERCEPTS.

ORDER OF SECTION 2 SHEETS

TYPICAL SECTIONS EROSION CONTROL ALIGNMENTS

STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC	M/L	MAINLINE
AGG	AGGREGATE	NO	NUMBER
ASPH	ASPHALTIC	PE	PRIVATE ENTRANCE
BM	BENCH MARK	PI	POINT OF INTERSECTION
BOC	BACK OF CURB	PL	PROPERTY LINE
C&G	CURB AND GUTTER	PP	POWER POLE
CE	COMMERCIAL ENTRANCE	QTY	QUANTITY
CL	CENTERLINE	RHF	RIGHT-HAND FORWARD
COR	CORNER	RT	RIGHT
CWT	HUNDREDWEIGHT	R/L	REFERENCE LINE
CY	CUBIC YARD	R/W	RIGHT-OF-WAY
DHV	DESIGN HOURLY VOLUME	SF	SQUARE FOOT
DWY	DRIVEWAY	SHLDR	SHOULDER
EL	ELEVATION	SS	STORM SEWER
EX	EXISTING	STA	STATION
EXC	EXCAVATION	SY	SQUARE YARD
FT	FOOT	Т	TRUCKS (PERCENT OF)
FTG	FOOTING	TEL	TELEPHONE
HYD	HYDRANT	TLE	TEMPORARY LIMITED EASEMENT
INV	INVERT	TYP	TYPICAL
LB	POUND	UG	UNDERGROUND CABLE
LF	LINEAR FOOT	VAR	VARIABLE
LHF	LEFT-HAND FORWARD	VC	VERTICAL CURVE
LS	LUMP SUM	VPC	VERTICAL POINT OF CURVE
LT	LEFT	VPI	VERTICAL POINT OF INTERSECTION
Mgal	MEGAGALLON	VPT	VERTICAL POINT OF TANGENCY

			Ą		В			С			D		
	SLOPE	E RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			SLC	DPE RANG	GE (PERCENT)	SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	0-2 2-6 6		0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56	
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38	
PAVEMENT:													
ASPHALT						.7095							
CONCRETE						.8095							
BRICK						.7080							
DRIVES, WALKS					.7585								
ROOFS						.7595							
GRAVEL ROADS, SHO	ULDERS					.4060	.4060						

TOTAL PROJECT AREA = 1.16 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = ______O.68 ____ACRES

CONTACTS

TREMPEALEAU COUNTY HIGHWAY DEPT.
MR. AL RINKA
COUNTY COMMISSIONER
PO BOX 97
20699 STATE ROAD 121
WHITEHALL, WI 54773
PHONE: (715) 538-4799
EMAIL: AL.RINKA@CO.TREMPEALEAU.WI.US

TOWN OF ETTRICK MR. JOHN VEHRENKAMP TOWN OF ETTRICK CHAIRMAN PO BOX 52 ETTRICK, WI 54627 PHONE: (608) 526-4991 EMAIL: ETTRICKTOWNSHIP@HOTMAIL.COM

DNR CONTACT MS. AMY LESIK WDNR WEST CENTRAL REGION 1300 W. CLAIREMONT AVE EAU CLAIRE, WI 54701 PHONE: (715) 836-6571 EMAIL: AMYL.LESIK@WISCONSIN.GOV

UTILITIES

** RIVERLAND ENERGY COOPERATIVE MR. ROBIN SOSALLA PO BOX 277 625 MAIN STREET ARCADIA, WI 54612 PHONE: (608) 863-2377 EMAIL: RSOSALLA@RIVERLANDENERGY.COM

** LUMEN MR. TOM MURRAY 333 N. FRONT STREET LA CROSSE, WI 54601 PHONE: (608) 780-0895 EMAIL: TOM.L.MURRAY@LUMEN.COM



** THESE ARE MEMBERS OF DIGGERS HOTLINE.

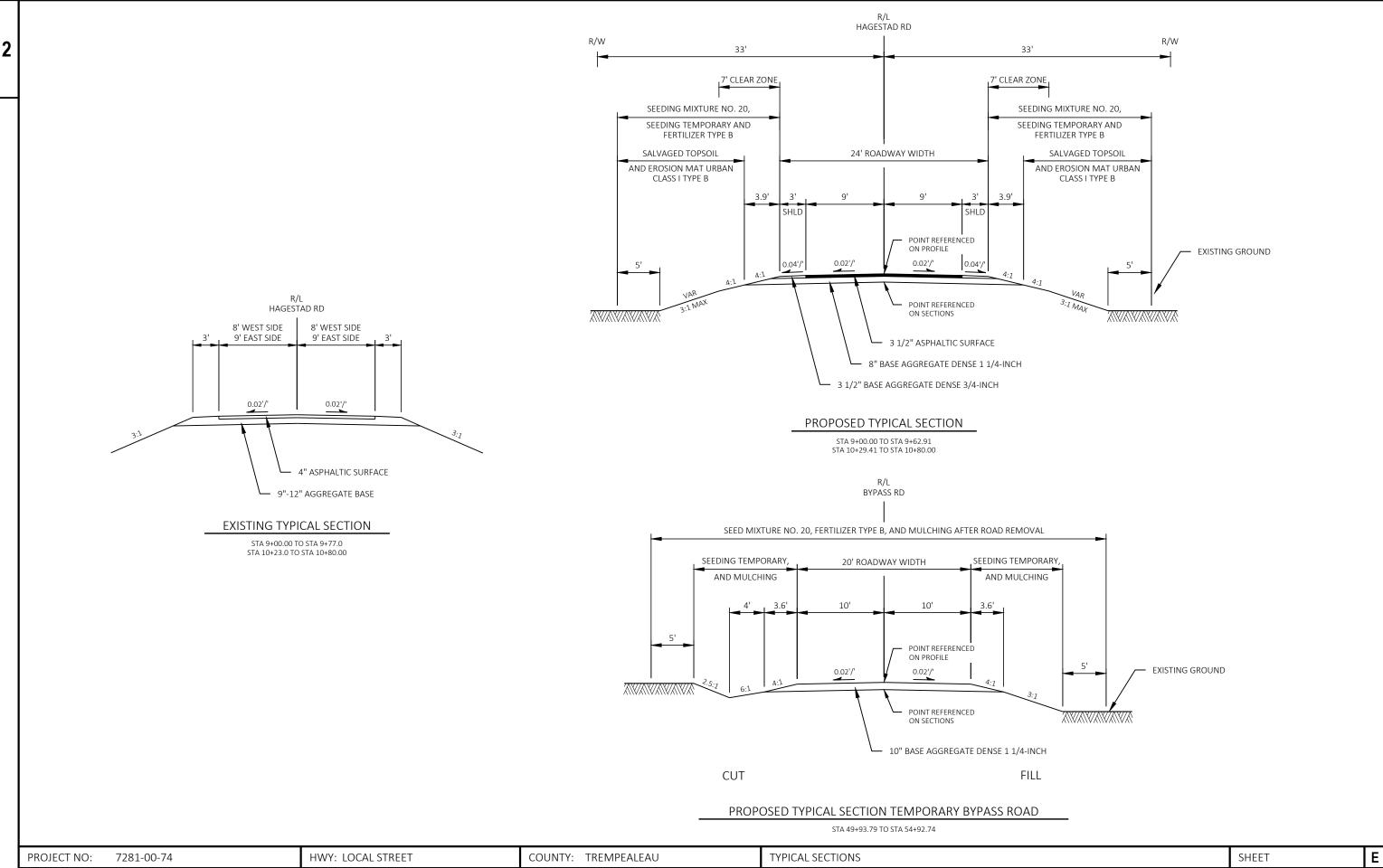
PROJECT NO: 7281-00-74	HWY: LOCAL STREET	COUNTY:	TREMPEALEAU		GENERAL NOTES		
FILE NAME : X:\2918800\200250.01\TECH\CAD\72810074\SHEETSPLAN\020101 LAYOUT NAME - 020101 gn	GN.DWG		PLOT DATE :	1/4/2022 9:51 AM	PLOT BY :	JEFF BREU	PLOT NAME :

2

CONSULTANT CONTACT MEAD & HUNT, INC. 750 NORTH THIRD STREET LA CROSSE, WI 54601 ATTN: MR. JAY P. WHEATON, P.E. PHONE: (608) 784-6040 MOBILE: (608) 386-0212 EMAIL: JAY.WHEATON@MEADHUNT.COM

SHEET

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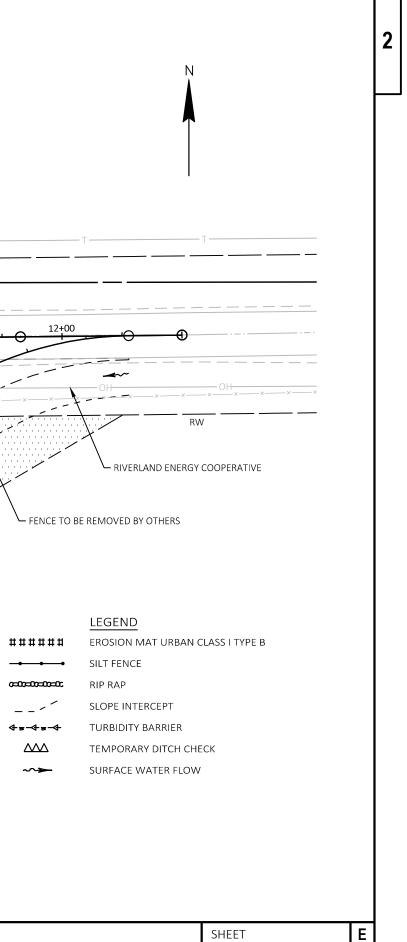
FILE NAME : X:\2918800\200250.01\TECH\CAD\72810074\SHEETSPLAN\020301_TS.DWG LAYOUT NAME - 020301_ts PLOT DATE : 10/19/2021 10:08 AM PLOT BY : JE

JEFF BREU

PLOT NAME :

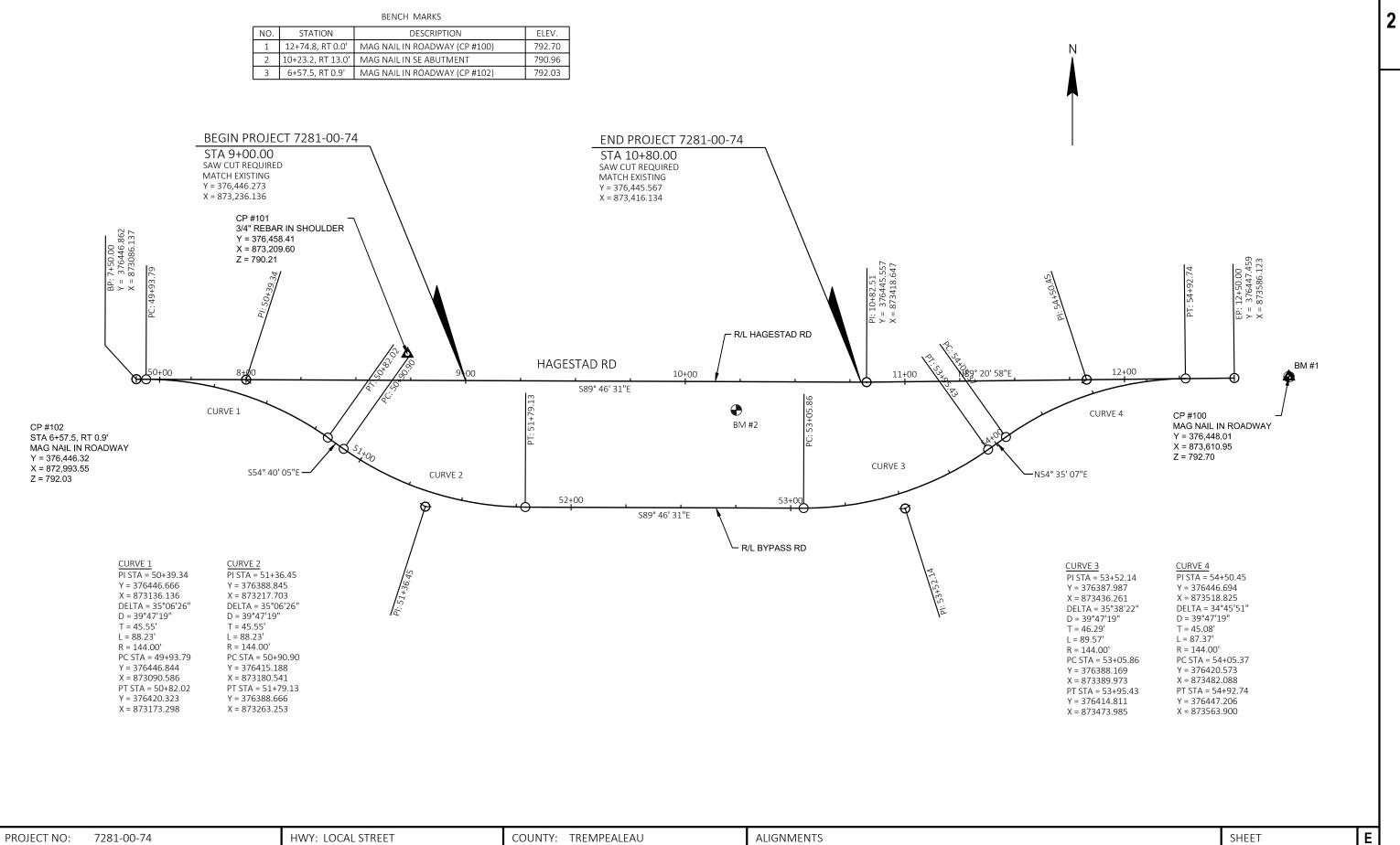
BROVOLD HOMESTEAD LLC - STRUCTURE B-61-246 TO BE CONSTRUCTED - SLOPE INTERCEPT SLOPE INTERCEPT – LUMEN RW 4 = _____ + R + -1/4 LINE <u>+</u> + + + <u>+</u> <u>+</u> - R/L HAGESTAD RD 8+50 9≩00 9+50 11+50 8+00 11+00 10+50 HAGESTAD RD 14 Į ŧ # # **#** # 1000000000 52+00 SLOPE INTERCEPT -53+0 0 FENCE TO BE REMOVED BY OTHERS · - TEMPORARY BYPASS STRUCTURE NOTE: TEMPORARY BYPASS ROAD TO HAVE SEEDING TEMPORARY AND MULCHING . – R/L BYPASS RD NF BEAVER CREEK TODD SMITH AND KRISTI SMITH

PROJECT NO: 7281-00-74	HWY: LOCAL STREET	COUNTY: TREMPEALEAU		EROSION CONTROL			
FILE NAME : X:\2918800\200250.01\TECH\CAD\72810074\SHEETSPLAN\022001_EC.DW	G	PLOT DATE :	10/19/2021 10:09 AM	PLOT BY :	JEFF BREU	PLOT NAME :	



2

NO.	STATION	STATION DESCRIPTION						
1	12+74.8, RT 0.0'	0.0' MAG NAIL IN ROADWAY (CP #100)						
2	10+23.2, RT 13.0'	MAG NAIL IN SE ABUTMENT	790.96					
3	6+57.5, RT 0.9'	MAG NAIL IN ROADWAY (CP #102)	792.03					



PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

3

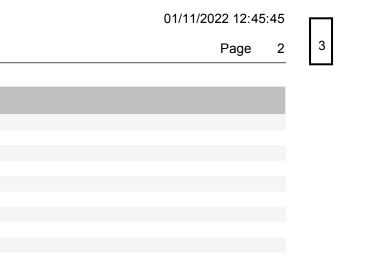
Estimate Of Quantities By Plan Sets

			Lotina		lice By Flan e	~
					7281-00-74	-
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	2.000	2.000	7
0004	201.0205	Grubbing	STA	2.000	2.000	
8000	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 02. P-61-189	EACH	1.000	1.000	
0010	205.0100	Excavation Common	CY	1,032.000	1,032.000	
0014	206.1000	Excavation for Structures Bridges (structure) 02. B-61-246	LS	1.000	1.000	
0016	208.0100	Borrow	CY	812.000	812.000	
0018	210.1500	Backfill Structure Type A	TON	192.000	192.000	
0022	213.0100	Finishing Roadway (project) 02. 7281-00-74	EACH	1.000	1.000	
0024	305.0110	Base Aggregate Dense 3/4-Inch	TON	16.000	16.000	
0026	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	698.000	698.000	
0028	455.0605	Tack Coat	GAL	20.000	20.000	
0030	465.0105	Asphaltic Surface	TON	56.000	56.000	
0032	502.0100	Concrete Masonry Bridges	CY	182.000	182.000	
0034	502.3200	Protective Surface Treatment	SY	252.000	252.000	
0036	505.0400	Bar Steel Reinforcement HS Structures	LB	4,710.000	4,710.000	
0038	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	23,970.000	23,970.000	
0030	513.4061	Railing Tubular Type M	LF	178.000	178.000	
0040	516.0500	Rubberized Membrane Waterproofing	SY	16.000	16.000	
0042	526.0100	Temporary Structure (station) 01. 52+50	LS	1.000	1.000	
0048	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LS	1,280.000	1,280.000	
		-	CY	217.000	217.000	
0054	606.0300	Riprap Heavy				
0056	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	124.000	124.000	
0060	618.0100	Maintenance And Repair of Haul Roads (project) 02. 7281-00-74	EACH	1.000	1.000	
0062	619.1000	Mobilization	EACH	0.500	0.500	
0064	624.0100	Water	MGAL	7.000	7.000	
0066	625.0500	Salvaged Topsoil	SY	2,352.000	2,352.000	
0068	627.0200	Mulching	SY	1,183.000	1,183.000	
0070	628.1504	Silt Fence	LF	300.000	300.000	
0072	628.1520	Silt Fence Maintenance	LF	600.000	600.000	
0074	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000	
0076	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0078	628.2008	Erosion Mat Urban Class I Type B	SY	2,352.000	2,352.000	
0080	628.6005	Turbidity Barriers	SY	270.000	270.000	
0082	628.7504	Temporary Ditch Checks	LF	120.000	120.000	
0086	629.0210	Fertilizer Type B	CWT	1.500	1.500	
0088	630.0120	Seeding Mixture No. 20	LB	63.000	63.000	
0090	630.0200	Seeding Temporary	LB	96.000	96.000	
0092	630.0500	Seed Water	MGAL	53.000	53.000	
0094	633.1100	Delineators Temporary	EACH	34.000	34.000	
0096	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000	
0098	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0100	638.2602	Removing Signs Type II	EACH	6.000	6.000	
0102	638.3000	Removing Small Sign Supports	EACH	6.000	6.000	
0104	642.5001	Field Office Type B	EACH	0.500	0.500	
0106	643.0300	Traffic Control Drums	DAY	1,950.000	1,950.000	
0108	643.0420	Traffic Control Barricades Type III	DAY	520.000	520.000	
0110	643.0705	Traffic Control Warning Lights Type A	DAY	1,040.000	1,040.000	
0112	643.0715	Traffic Control Warning Lights Type C	DAY	1,300.000	1,300.000	
0114	643.0900	Traffic Control Signs	DAY	2,080.000	2,080.000	



Estimate Of Quantities By Plan Sets

	7281-00-74
	1201-00-14
Line Item Description Unit Total	Qty
0116 643.5000 Traffic Control EACH 0.500	0.500
0118 645.0111 Geotextile Type DF Schedule A SY 52.000	52.000
0120 645.0120 Geotextile Type HR SY 440.000	440.000
0122 650.4500 Construction Staking Subgrade LF 564.000	564.000
0124 650.5000 Construction Staking Base LF 564.000	564.000
0130 650.6500 Construction Staking Structure Layout (structure) 02. B-61-246 LS 1.000	1.000
0134 650.9910 Construction Staking Supplemental Control (project) 02. 7281-00-74 LS 1.000	1.000
0136 650.9920 Construction Staking Slope Stakes LF 564.000	564.000
0138 690.0150 Sawing Asphalt LF 34.000	34.000
0140 715.0502 Incentive Strength Concrete Structures DOL 1,110.000	1,110.000
0144 999.2005.S Maintaining Bird Deterrent System (station) 02. Sta 10+00 EACH 1.000	1.000
0146 ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR HRS 150.000	150.000
0148 ASP.1T0G On-the-Job Training Graduate at \$5.00/HR HRS 150.000	150.000
0150 SPV.0090 Special 01. Flashing Stainless Steel LF 133.000	133.000



CLEARING & GRUBBING

000			T	OTALS 2	2
9+00	-	10+80	HAGESTAD RD, RT	2	2
STATION	то	STATION	LOCATION	STA	STA
				201.0105 CLEARING	201.0205 GRUBBING

EARTHWORK SUMMARY												
FROM/TO STATION	UNEXPANDED FILL	EXPANDED FILL (FACTOR 1.25)	MASS ORDINATE +/- (3)	WASTE								
49+93.79 - 54+92.74	TEMPORARY BYPASS RD	780	0	780	135	169	611	611				
9+00 - 10+80	HAGESTAD RD	117	24	93	52	65	28	28				
49+93.79 - 54+92.74	TEMPORARY BYPASS RD - RESTORATION	135	0	135	780	975	-840	-840				
		1,032										

(1) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED TOTAL BORROW = 812 CY

AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL (2)

THE MASS ORDINATE + OR - QUANTITY CALCULATED. PLUS QUANTITY INDICATES AS EXCESS OF MATERIAL. (3) MINUS INDICATES A SHORTAGE OF MATERIAL.

NOTE: WASTE FROM TEMPORARY BYPASS ROAD CONSTRUCTION IS EXPECTED TO BE HAULED OFF SITE AS WASTE. WASTE FROM HAGESTAD ROAD CONSTRUCTION IS EXPECTED TO BE USED ON-SITE TO FILL IN THE TEMPORARY BYPASS ROAD. APPROXIMATELY 812 CY OF BORROW WILL BE NEEDED TO FILL THE FIELD WHERE THE TEMPORARY BYPASS ROADWAY WAS LOCATED. AFTER REMOVING TEMPORARY BYPASS ROADWAY, RESTORE SURFACE TO ORIGINAL EXISTING GROUND.

				BASE AGGREGATI	E DENSE			ASPHALT SUMMARY							
					305.0110 BASE AGGREGATE	305.0120 305.0110 BASE ASE AGGREGATE AGGREGATE						455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE		
					DENSE	DENSE	624.0100	STATION	TO	STATION	LOCATION	GAL	TON		
					3/4-INCH	1-1/4 INCH	WATER	9+00	-	9+63	HAGESTAD RD	10	29		
STATION	то	STATION		LOCATION	TON	TON	MGAL	10+29	-	10+80	HAGESTAD RD	10	27		
9+00.00	-	9+65.00		HAGESTAD RD	9	95	1				TOTALS	20	56		
10+28.00	-	10+80.00	1	HAGESTAD RD	7	80	1								
50+60.00	-	54+20.00	TE	EMP BYPASS RD	-	523	5			TACK CO	AT ESTIMATED AT 0.07 GA	AL/SY			
				TOTALS	16	698	7								
									ING I	EMS					

				625.0500 SALVAGED TOPSOIL	628.2008 EROSION MAT URBAN CLASS I TYPE B	627.0200 MULCHING	629.0210 FERTILIZER TYPE B	630.0120 SEEDING MIXTURE NO. 20	630.0200 SEEDING TEMPORARY	630.0500 SEED WATER	
STATION	то	STATION	LOCATION	SY	SY	SY	CWT	LB	LB	MGAL	REMARKS
7+50	-	9+80	HAGESTAD RD, LT & RT	1,175	1,175	-	0.7	32	32	26	INCLUDES TE
10+10	-	12+25	HAGESTAD RD, LT & RT	1,177	1,177	-	0.7	32	32	26	INCLUDES TE
50+00	-	52+25	TEMP BYPASS RD, LT & RT	-	-	574	-	-	16	-	
52+75	-	54+90	TEMP BYPASS RD, LT & RT	-	-	609	-	-	16	-	
			TOTALS	2,352	2,352	1,183	1.5	63	96	53	
											NOTE:

PROJEC	TNO: 7281-00-74	HWY: LOCAL STREET	COUNTY: TREMPEALEAU		MISCELLANEOU	S QUANTITIE	S
FILE NAME :	X:\2918800\200250.01\TECH\CAD\72810074\SHEETSPLAN\030201_MQ.E	WG	PLOT DATE :	1/4/2022 11:11 AM	PLOT BY :	JEFF BREU	PLOT NAME :

3

MOBILIZATION 619.1000 MOBILIZATION EACH CATEGORY LOCATION 0010 HAGESTAD RD 0.50 TOTALS 0.50

TEMP BYPASS RESORATION AREA TEMP BYPASS RESORATION AREA

FE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED AS 0020.

SHEET

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EROSION CONTROL SUMMARY

			TOTAL	300	600
UNDIS	UNDISTRIBUTED		VARIOUS	82	164
51+58	-	52+24	TEMP BYPASS RD, RT	66	132
10+17	-	10+82	HAGESTAD RD, LT	65	130
8+97	-	9+84	HAGESTAD RD, LT	87	174
STATION	то	STATION	LOCATION	LF	LF
				SILT FENCE	MAINTENANCE
				628,1504	SILT FENCE
					628,1520

			SIGNING			
		634.0614 POSTS WOOD 4x6-INCH x 14-FT	637.2230 SIGNS TYPE II REFLECTIVE F	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	
STATION	LOCATION	EACH	SF	EACH	EACH	COMMENTS
8+28	HAGESTAD RD, RT	-	-	1	1	ONE LANE BRIDGE
9+76	HAGESTAD RD, LT & RT	-	-	2	2	W5-52L & W5-52R
9+51	HAGESTAD RD, LT & RT	2	6	-	-	W5-52L & W5-52R
10+25	HAGESTAD RD, LT & RT	-	-	2	2	W5-52L & W5-52R
10+42	HAGESTAD RD, LT & RT	2	6	-	-	W5-52L & W5-52R
15+50	HAGESTAD RD, LT	-	-	1	1	ONE LANE BRIDGE
	TOTALS	4	12	6	6	

	TURBIDITY BARRIERS								
	628.6005								
				TURBIDITY					
				BARRIERS					
STATION	ТО	STATION	LOCATION	SY					
	10+00		HAGESTAD RD	130					
	10+05	5	HAGESTAD RD	140					
			TOTALS	270					

TRAFFIC CONTROL ITEMS

								643.0705		643.0715				
						643.0420	TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC				
			643.0300	643.0300	TRAFFIC	TRAFFIC	CONTROL	CONTROL	CONTROL	CONTROL		643.0900		
		633.1100	TRAFFIC	TRAFFIC	CONTROL	CONTROL	WARNING	WARNING	WARNING	WARNING	TRAFFIC	TRAFFIC	643.5000	
	DELINEATORS	DELINEATORS	CONTROL	CONTROL	BARRICADES	BARRICADES	LIGHTS	LIGHTS	LIGHTS	LIGHTS	CONTROL	CONTROL	TRAFFIC	
	TEMPORARY	TEMPORARY	DRUMS	DRUMS	TYPE III	TYPE III	TYPE A	TYPE A	TYPE C	TYPE C	SIGNS	SIGNS	CONTROL	
PROJECT	EACH	EACH	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	REMARKS
7281-00-74	34	34	30	1,950	8	520	16	1,040	20	1,300	32	2,080	0.5	65 DAYS (25 MPH ADVISORY SPEED)
TOTALS		34		1,950		520		1,040		1,300		2,080	0.5	

CONSTRUCTION STAKING

					650.4500 CONSTRUCTION STAKING SUBGRADE	650.5000 CONSTRUCTION STAKING BASE	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (B-61-246)	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT)	CONSTRUCTION		SAWING ASPHALT	690.0150 SAWING ASPHALT
	CATEGORY	STATION TO	STATION	LOCATION	LF	LF	LS	LS	LF	STATION	LOCATION	LF
	0010	9+00 -	9+63	HAGESTAD RD	63	63	-	-	63	9+00	HAGESTAD RD	16
	0010	10+29 -	10+80	HAGESTAD RD	51	51	-	-	51	10+80	HAGESTAD RD	18
	0010	49+94 -	52+25	TEMP BYPASS RD	232	232	-	-	232		TOTALS	34
	0010	52+75 -	54+93	TEMP BYPASS RD	218	218	-	-	218		TOTALS	34
	0020	9+96.16	6	HAGESTAD RD	-	-	1	-	-			
	0010	PROJEC	т	HAGESTAD RD	-	-	-	1	-			
				TOTALS	564	564	1	1	564			
											NOTE: ALL ITEMS ARE CATEGO	RY 0010 UNLESS NOTED
PROJECT NO:	7281-00-74		HWY: LC	OCAL STREET	С	OUNTY: TREMP	EALEAU	М	ISCELLANEOUS QUANTITIES			

X:\2918800\200250.01\TECH\CAD\72810074\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030102_mq

PLOT DATE : 1/4/2022 10:24 AM

PLOT BY : JEFF BREU PLOT NAME :

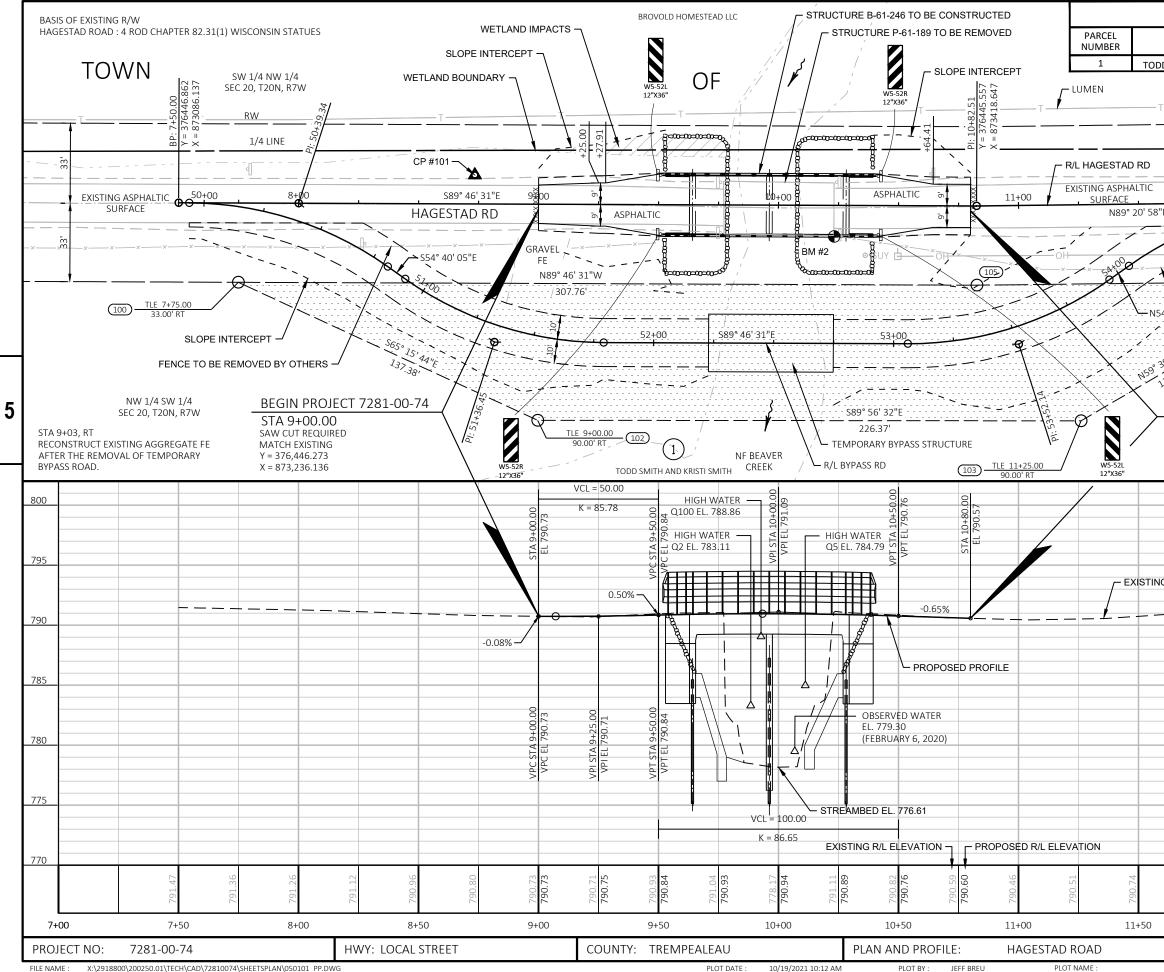
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FILE NAME :

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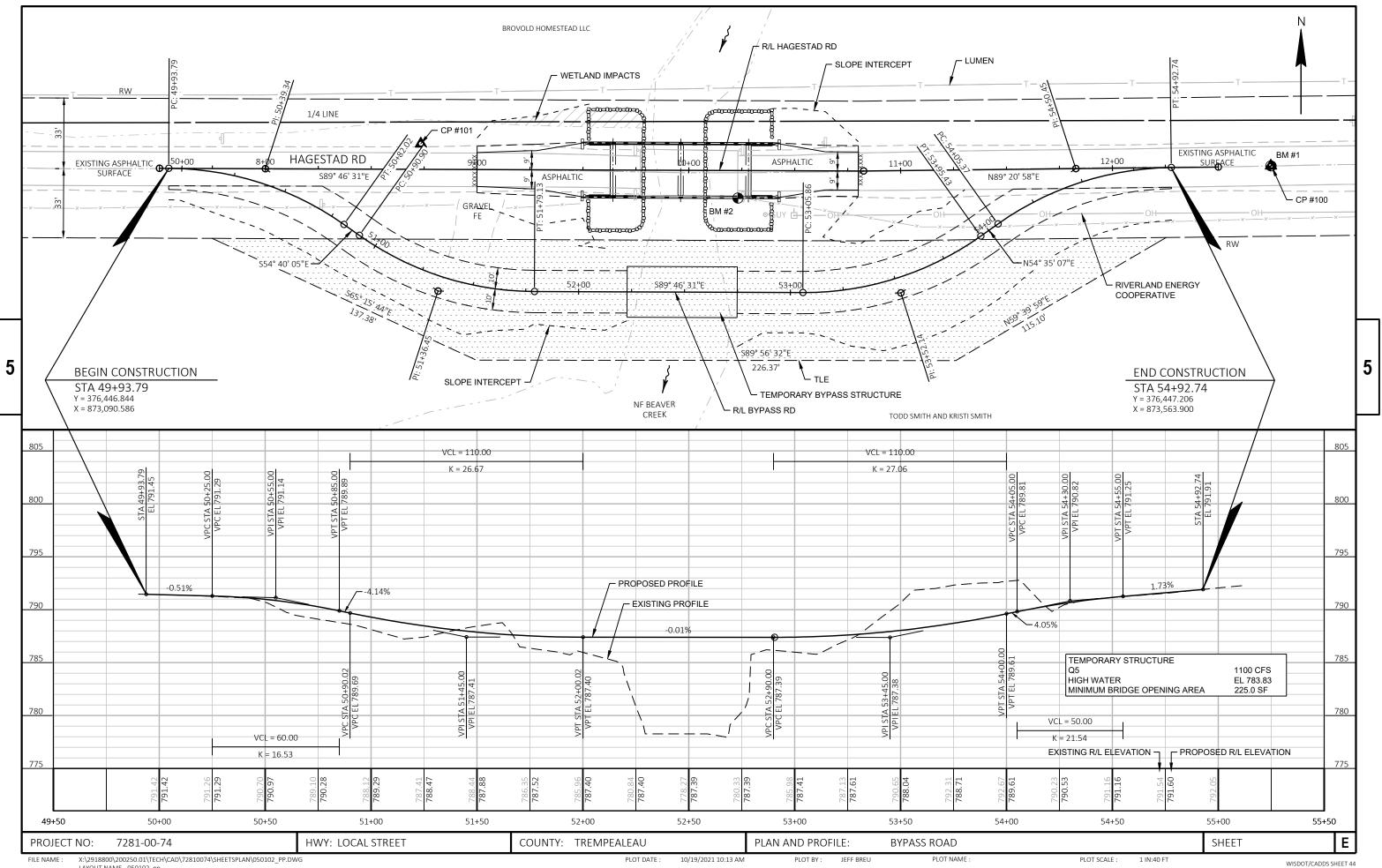
SHEET PLOT SCALE : 1 IN:1 FT WISDOT/CADDS SHEET 42

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PLOT NAME :

SCHEDULE OF LANDS AND IN	TERESTS]
OWNER(S)	INTEREST REQUIRED	TLE ACRES	
D SMITH AND KRISTI SMITH	TLE	0.44	1
EP:12+50.00	= 376447,459 = 873586.123 	T-	-
EP	× ≺		
			-
12+00	ВМ	l #1	
	- 4		
		– CP #100	
	×××	××	
S89° 20' 58"W	RW		
4° 35' 07"E	+25.00 1' BT 104		
	RGY COOPERATIVE		
TLE FOR TEMPORARY BYPASS ROAD (0.44 AC)		N	
15.20			
TENCE TO BE REMOVED BT OTHERS			_
END PROJECT 7281-00-74 STA 10+80.00			5
SAW CUT REQUIRED MATCH EXISTING			
Y = 376,445.567 CIIF X = 873,416.134	AICK .	I	
			1
		800	1
		795	
G PROFILE			1
		790	
		785	4
STA 10+00.00 REMOVE EXISTING STRUCTURE	P-61-189		
46.0' OVERALL LENGTH AND 20.0' CLEAR ROADWAY WIDTH		780	-
SINGLE-SPAN PRESTRESSED CH BRIDGE	HANNEL BEAM		
STA 9+96.16 STRUCTURE B-61-246		775	1
66.5' OVERALL LENGTH AND 24.0' CLEAR ROADWAY WIDTH			
TWO-SPAN REINFORCED CONCE BRIDGE	RETE FLAT SLAB	770	
.07 41 34 35			1
791.4			
12+00 12-	+50	13+00	
S	HEET	E	1
PLOT SCALE : 1 IN:40 FT		WISDOT/CADDS SHEET 4	J 4

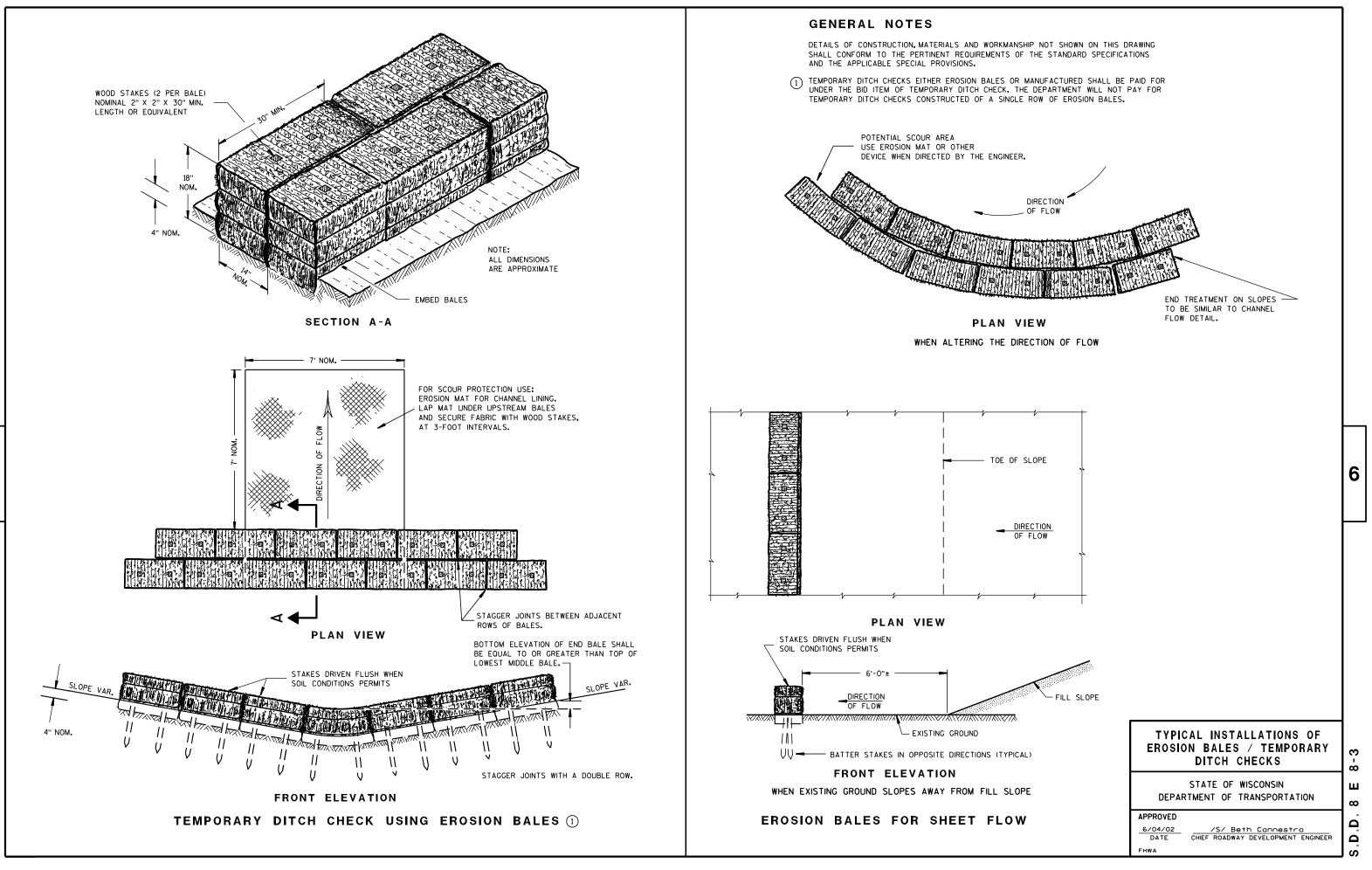


LAYOUT NAME - 050102_pp

PLOT DATE : 10/19/2021 10:13 AM

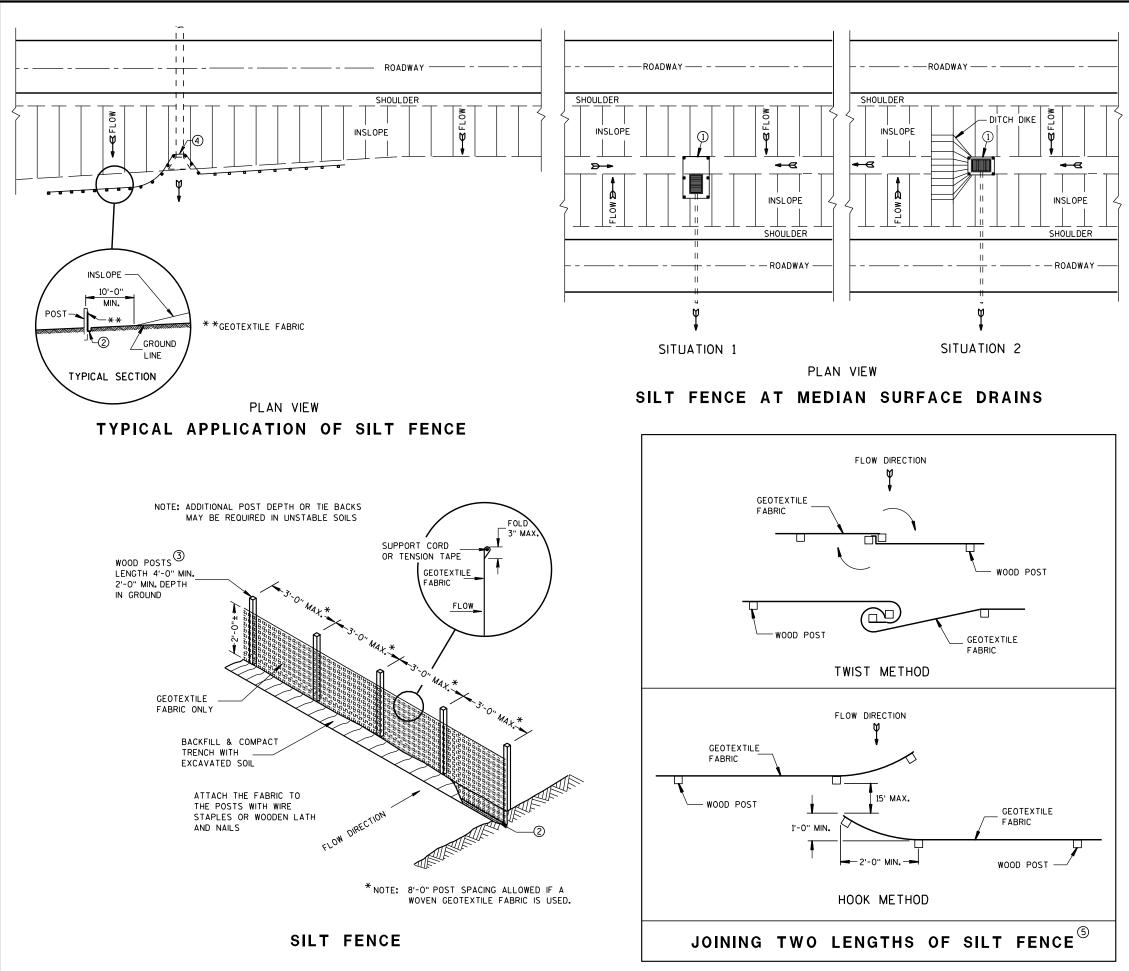
Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
15A04-06A	FLEXIBLE DELINEATOR POST
15A04-06C	DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15С11-09в	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D31-03	TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL



S,D,D, 8 E 8

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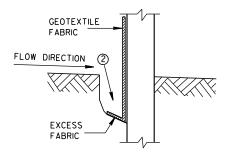
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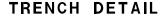
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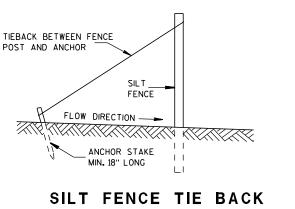
GENERAL NOTES

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

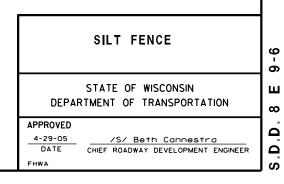
- \bigcirc horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF $1/_8$ " X $1/_8$ " 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.

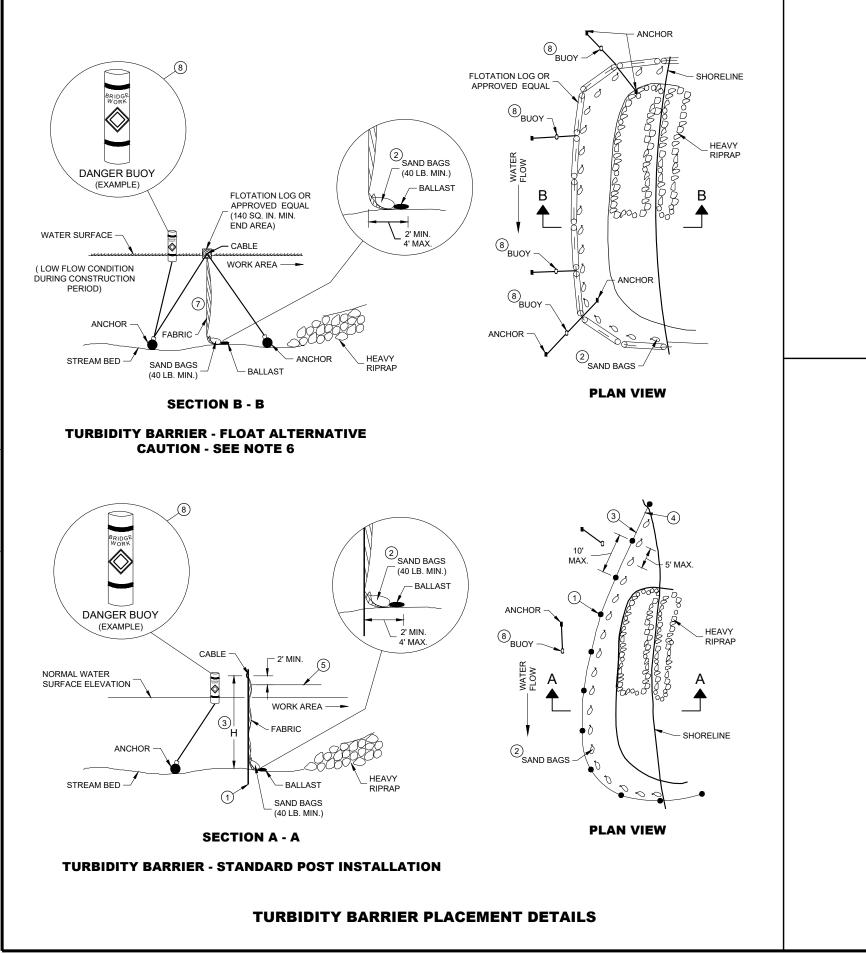




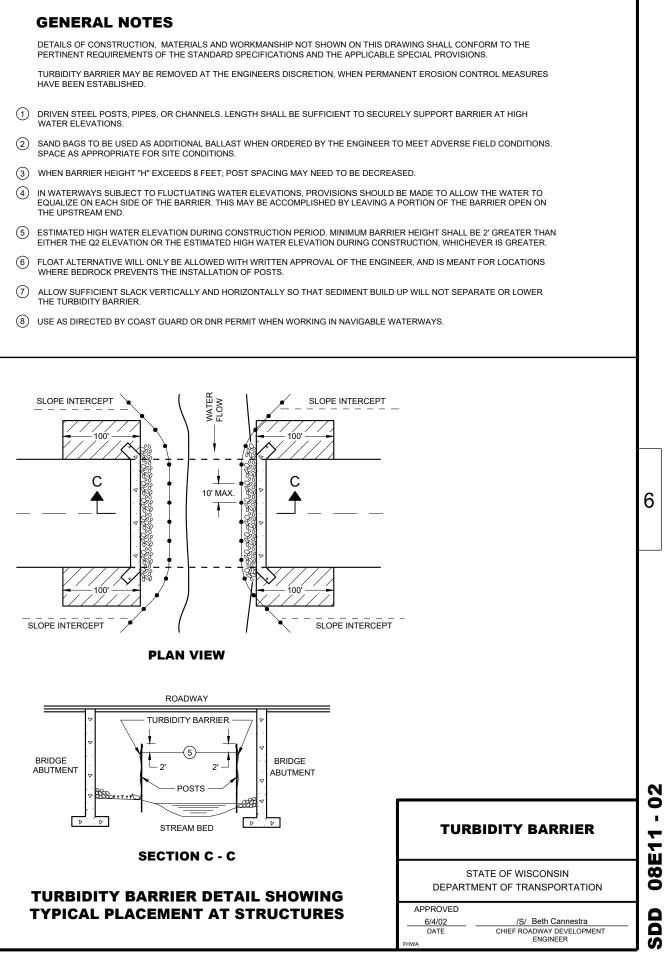


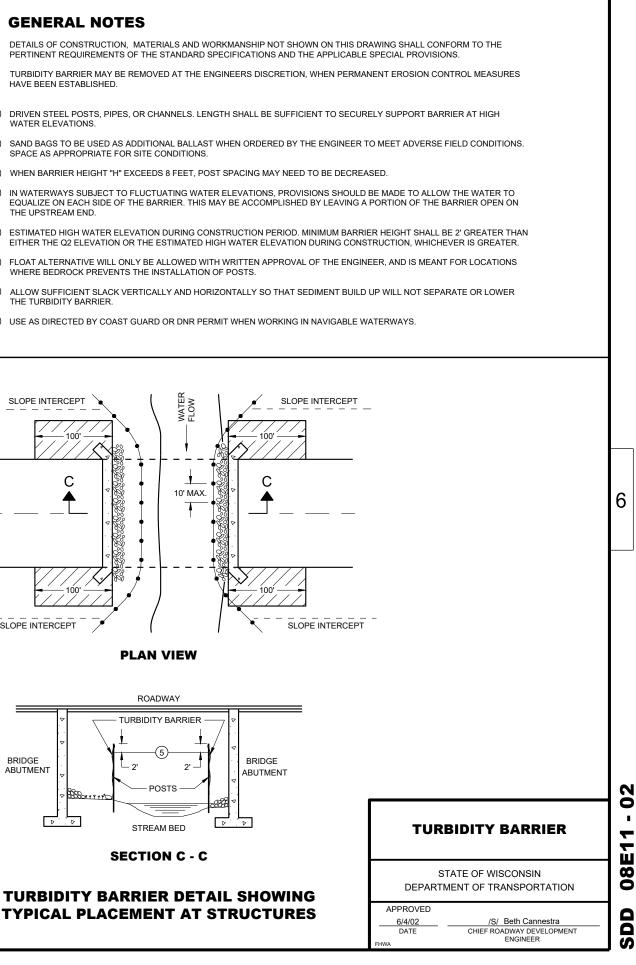
(WHEN REQUIRED BY THE ENGINEER)



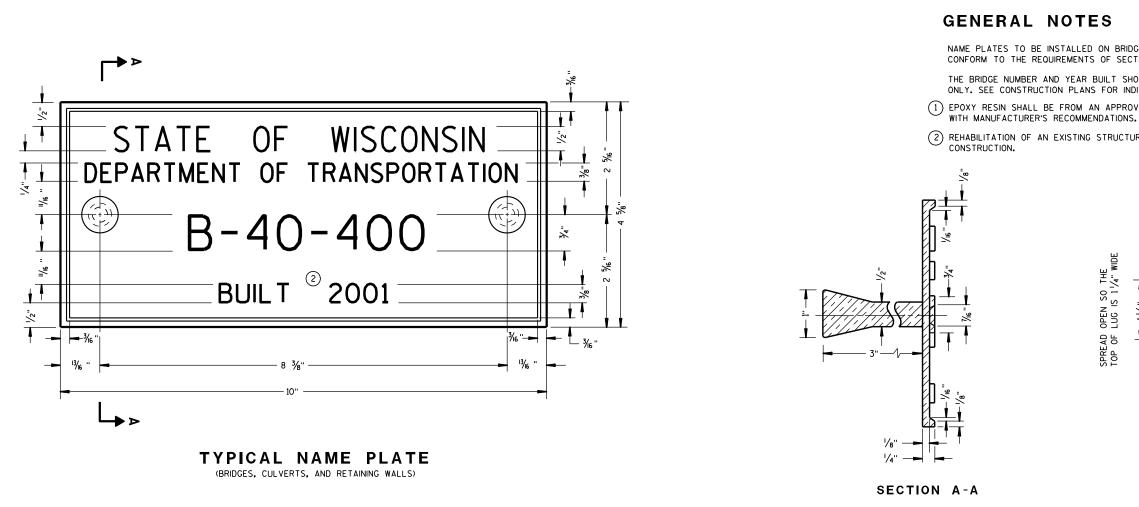


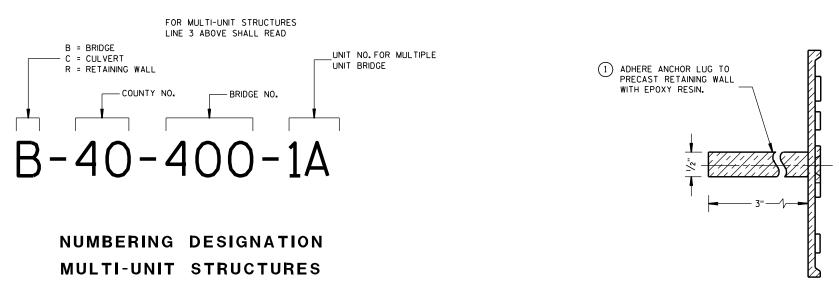
- WATER ELEVATIONS.





SDD 08E -02





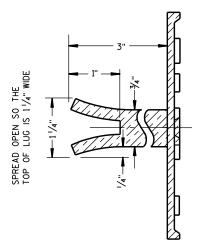
ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

6

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

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



ALTERNATE LUG

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

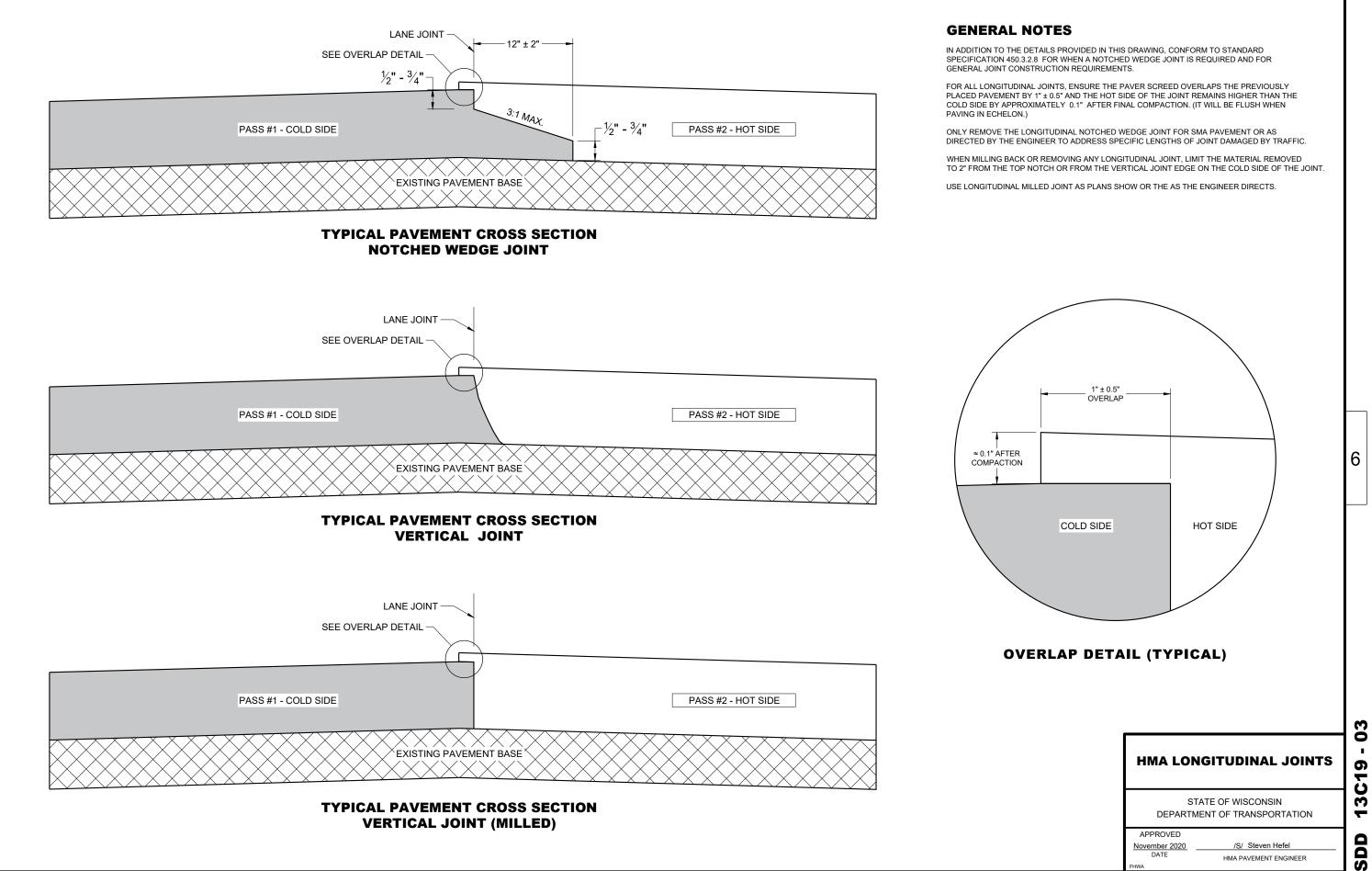
APPROVED

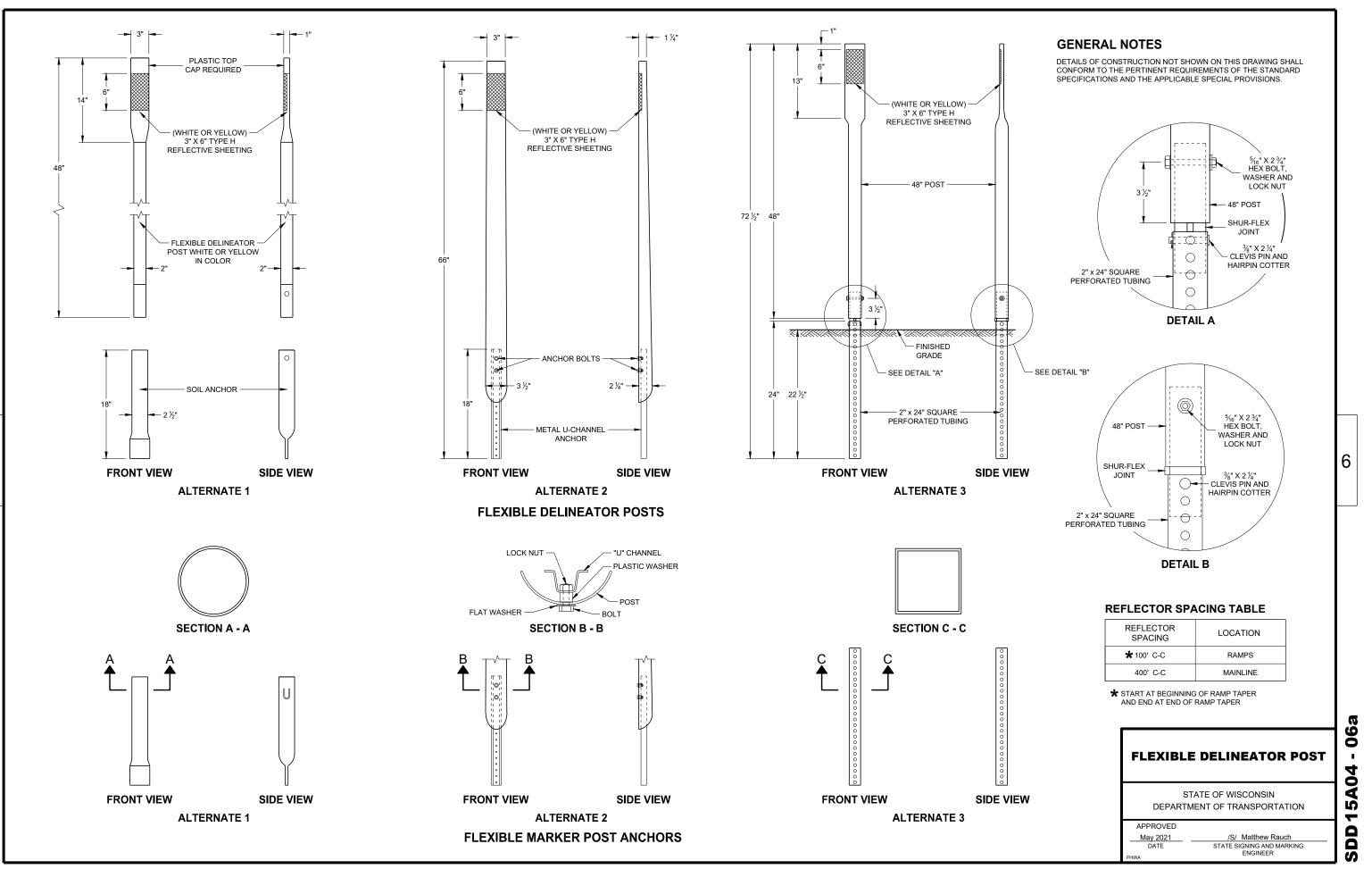
3/26/10 DATE FHWA

/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 3-10 ∢ 2 Δ

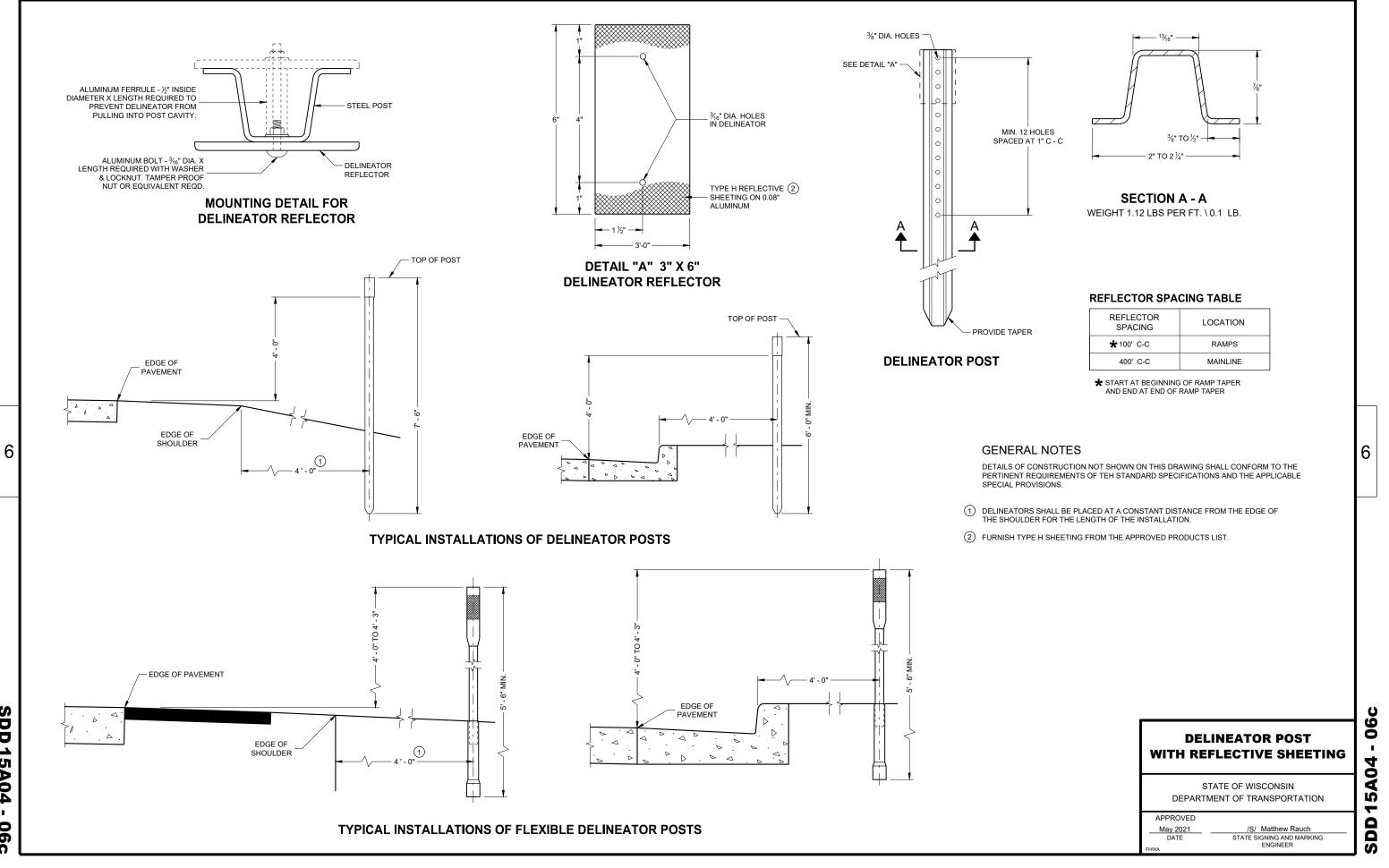
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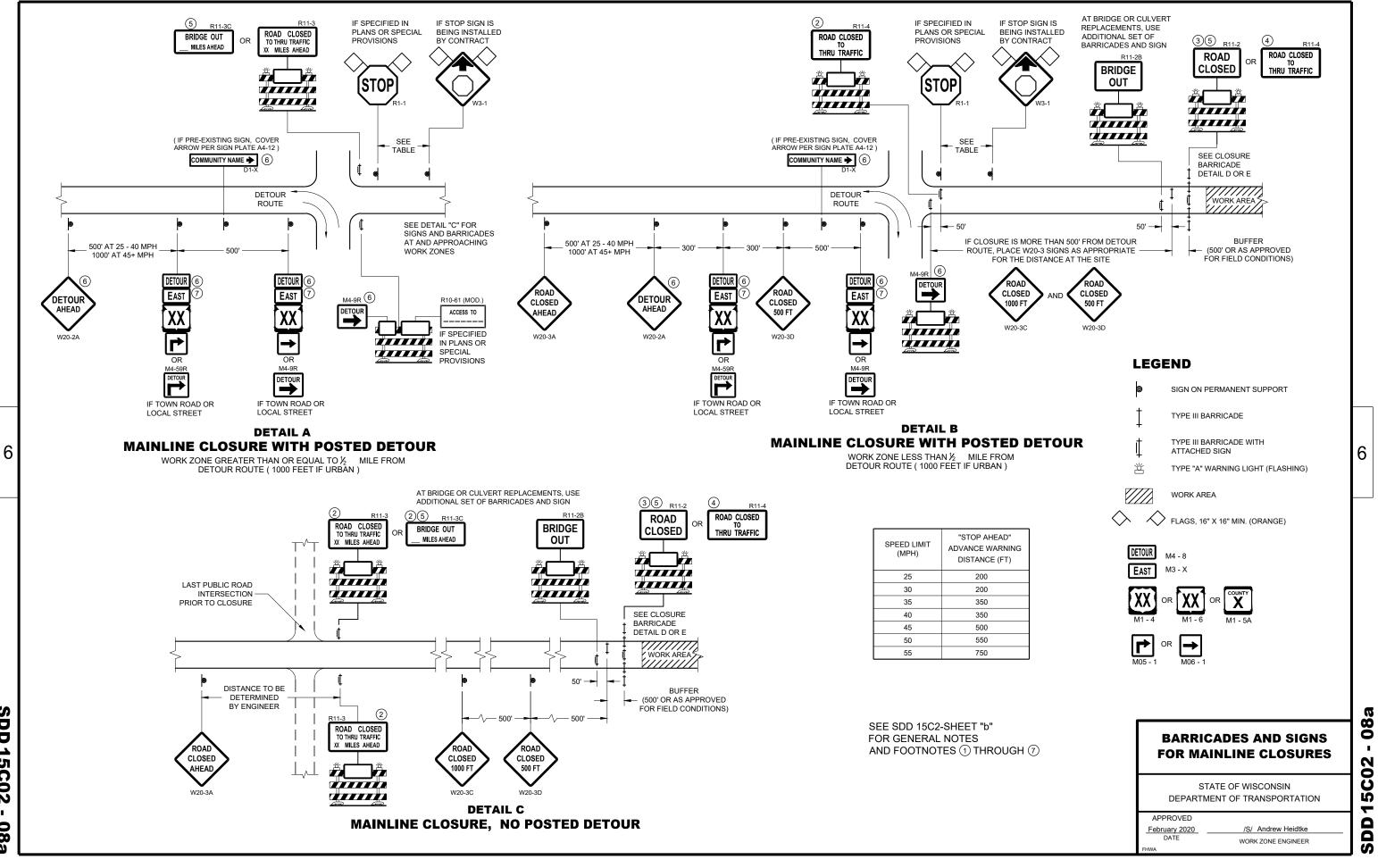


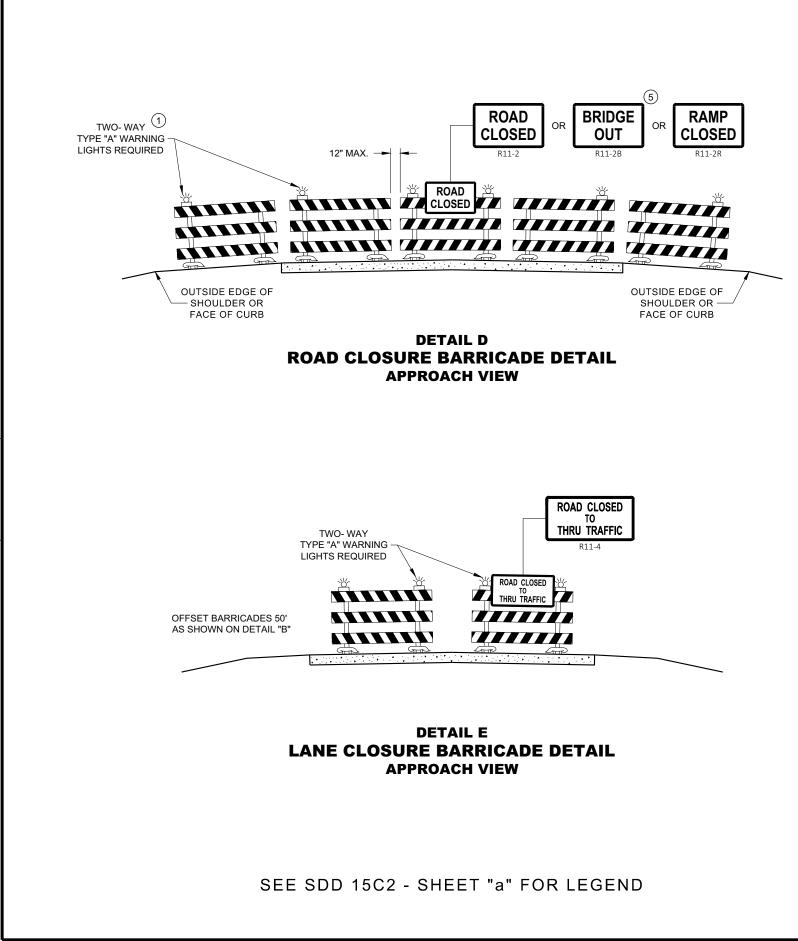


SDD 15A04 - 06a



SDD 15A04 н. 06c





GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

FULL ROAD CLOSURES.

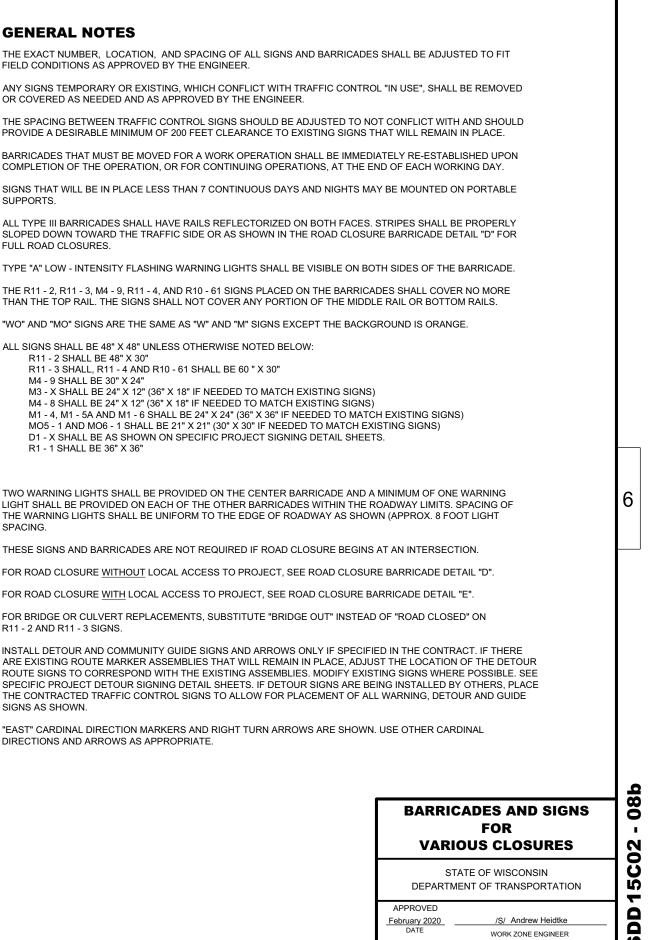
THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

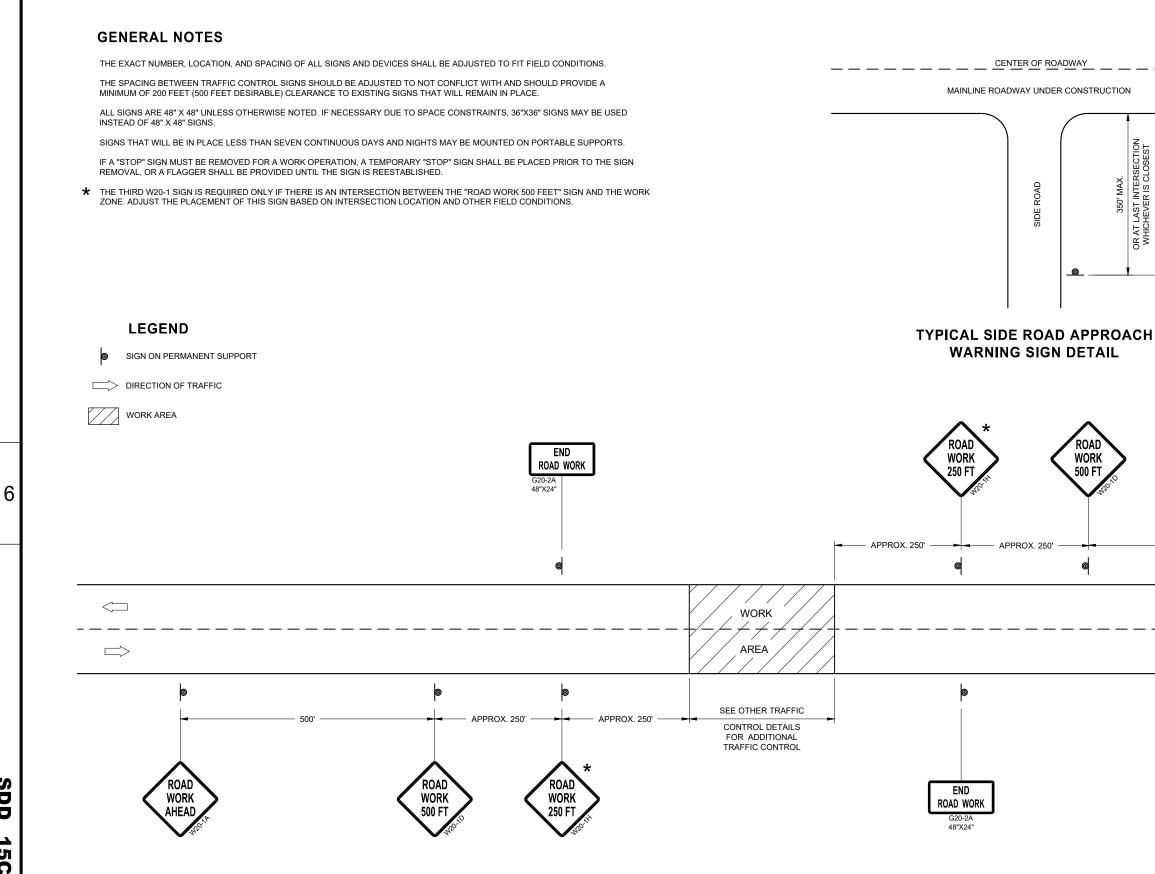
- ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11 - 2 SHALL BE 48" X 30"
 - R11 3 SHALL, R11 4 AND R10 61 SHALL BE 60 " X 30" M4 - 9 SHALL BE 30" X 24"
 - M3 X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
 - M4 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

 - D1 X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
 - R1 1 SHALL BE 36" X 36"
- (1)TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

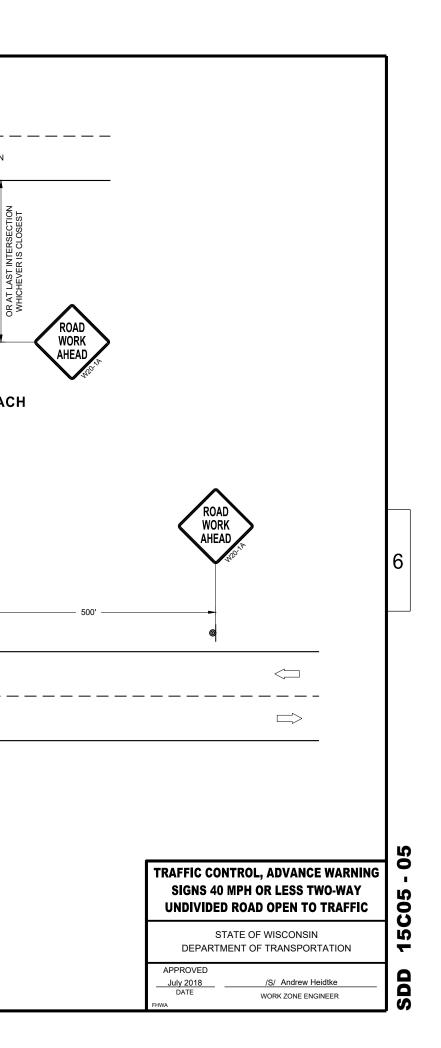
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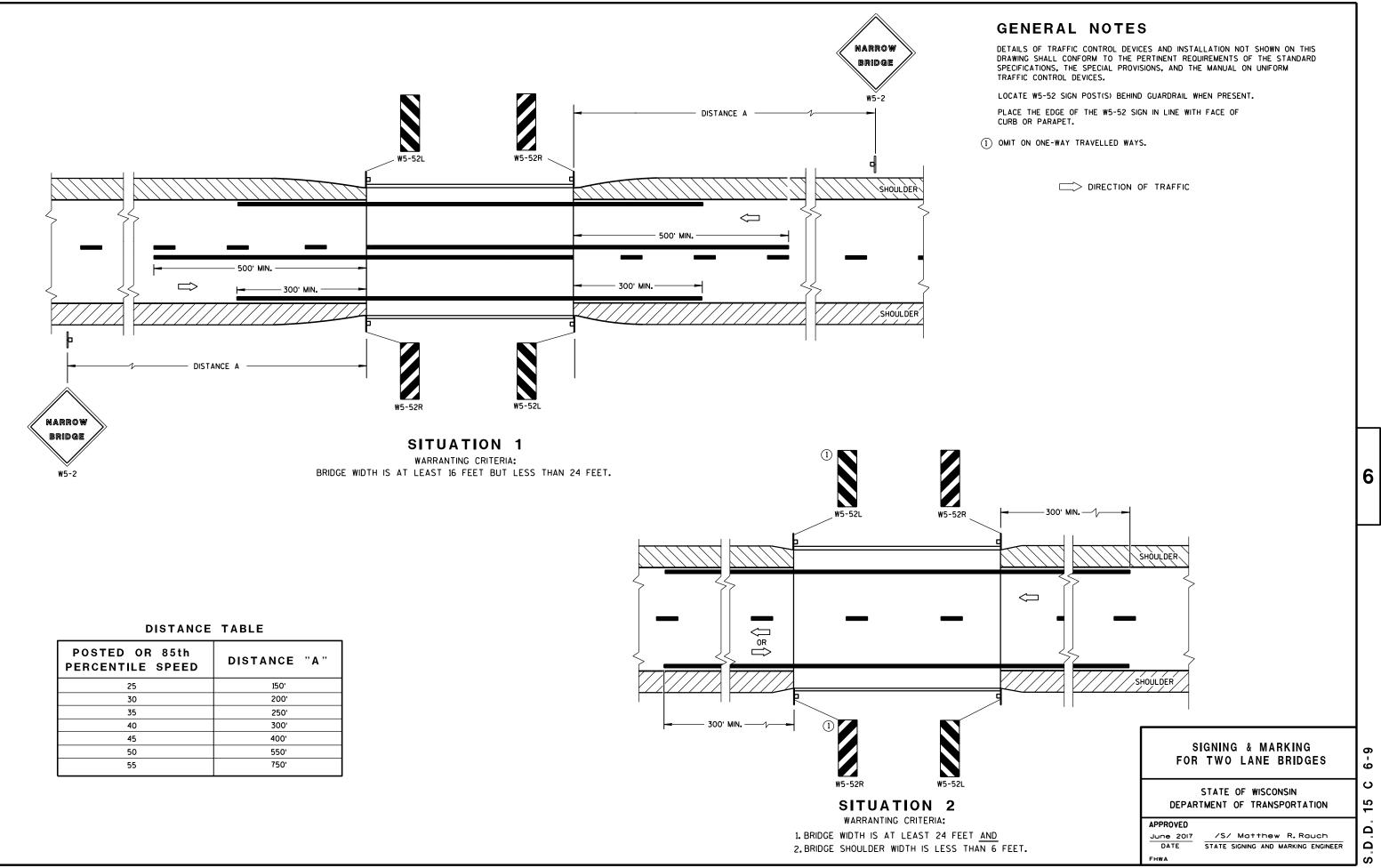


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TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

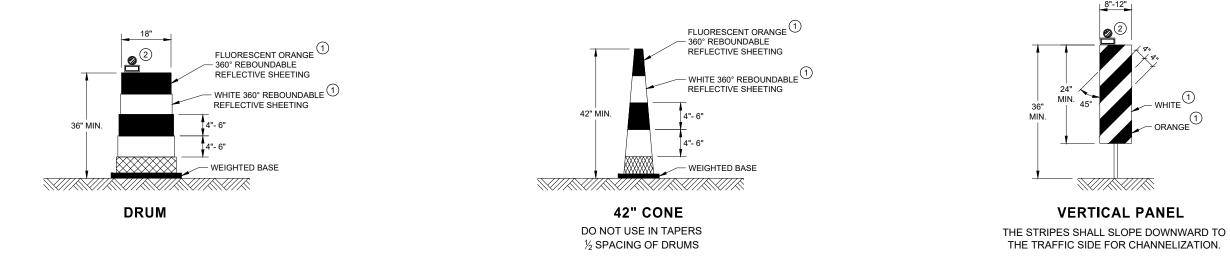


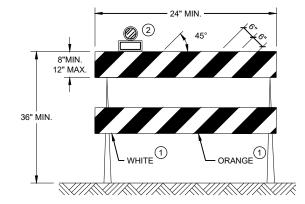


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GENERAL NOTES

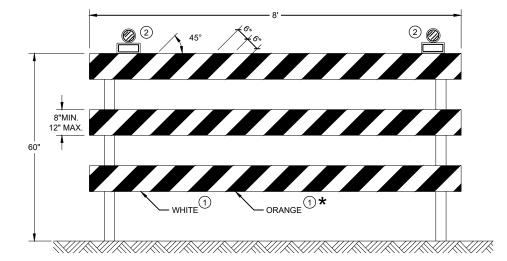
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





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.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

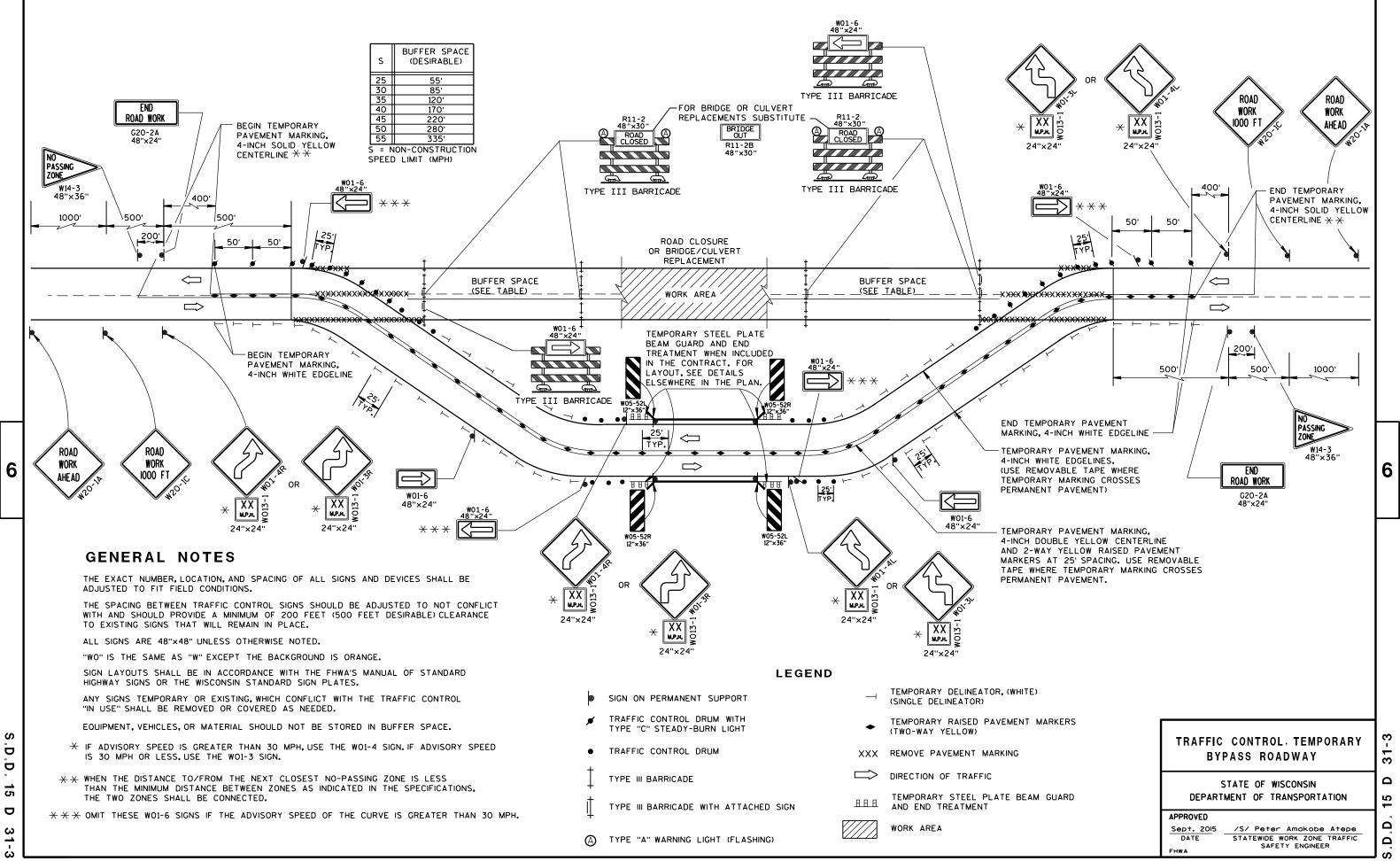
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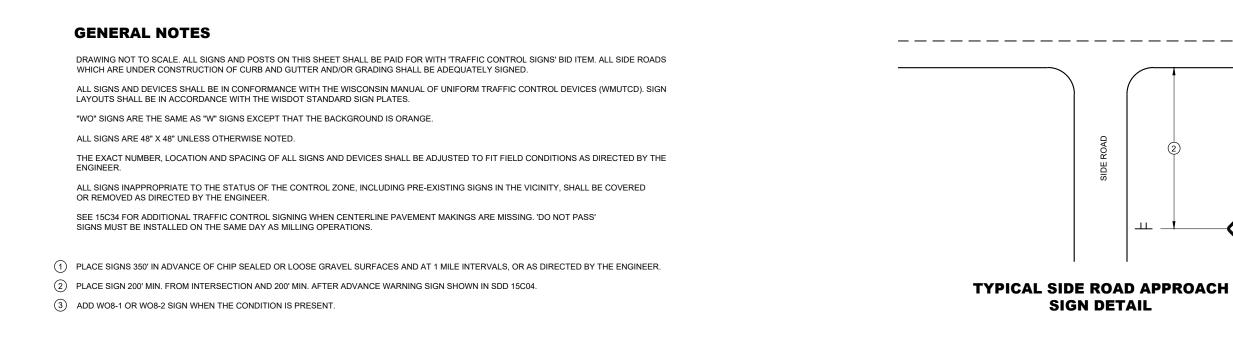
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER





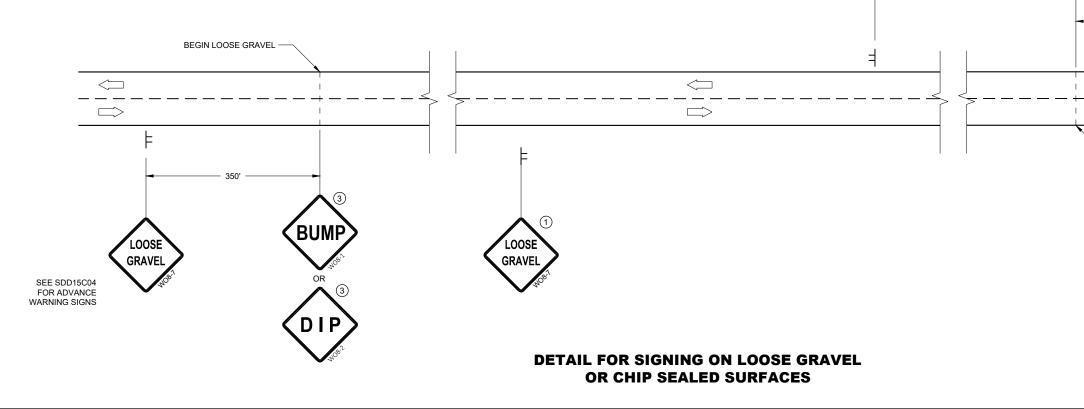


SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

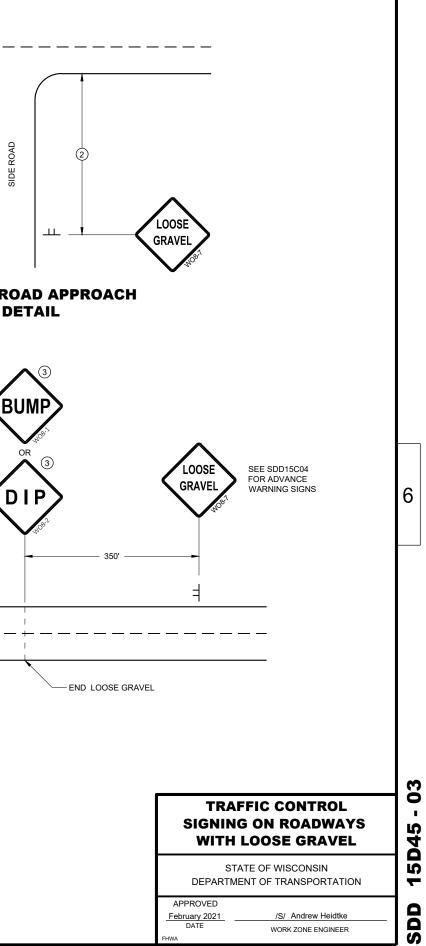


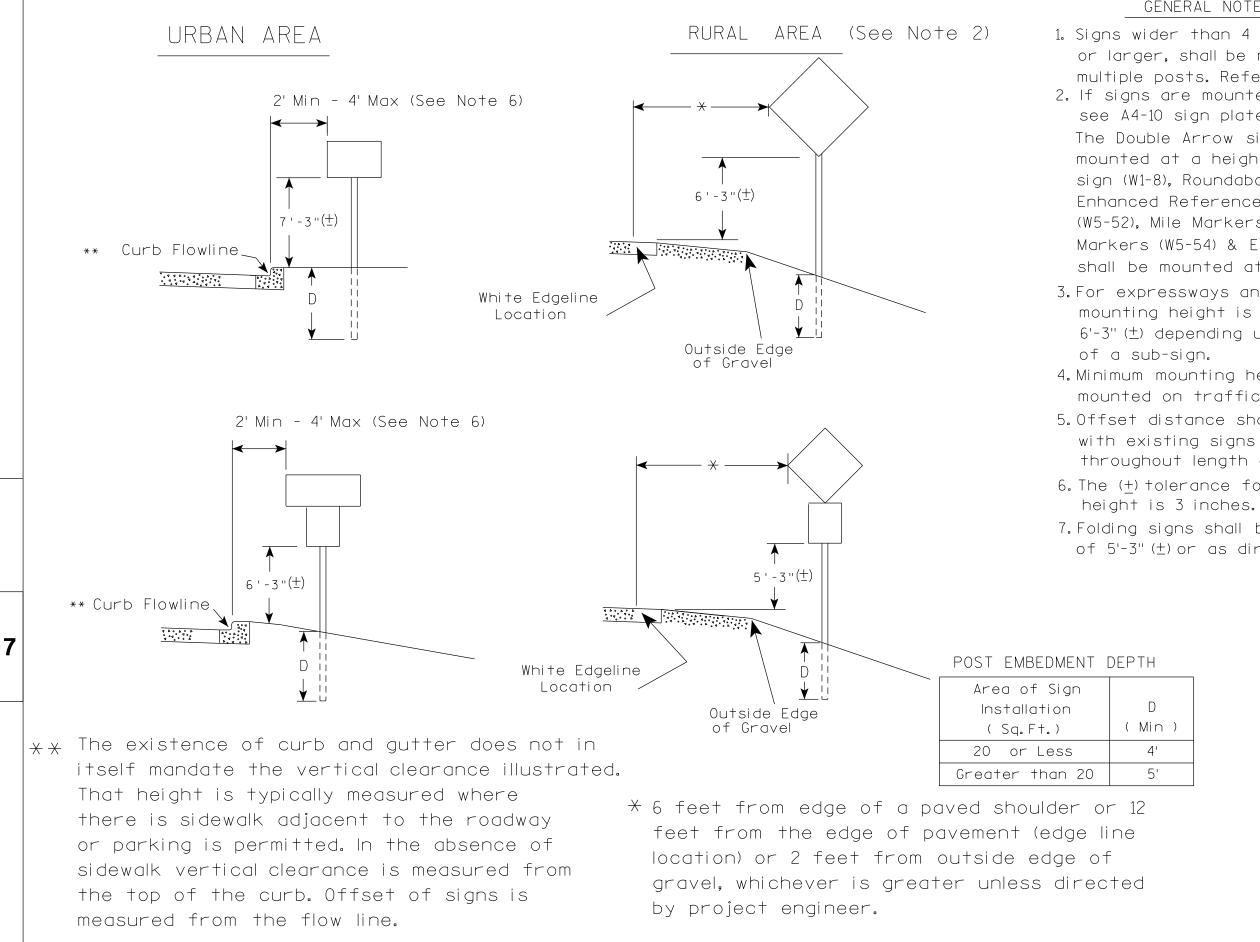




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GRAVEL



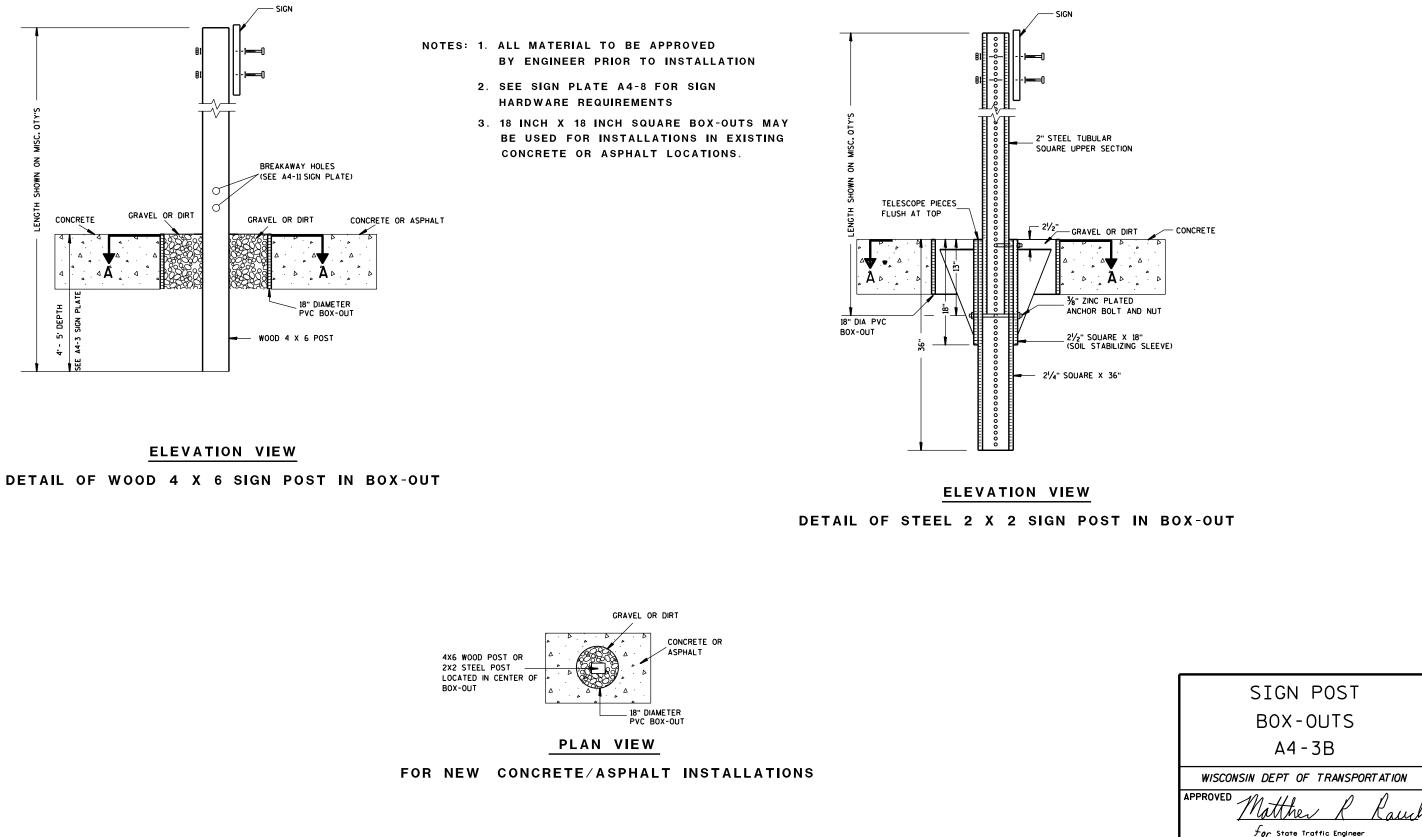


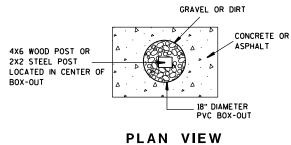
PROJECT NO:	HWY:	COUNTY:			
			DI AT DITE : 47 HUN 0000 4 4	DI OT DY IN IO	DLOT NAME -

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4. 2. If signs are mounted on or behind barrier wall. see A4-10 sian plate. The Double Arrow sign (W12-1D) shall be mounted at a height of $2'-3''(\pm)$. 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" (\pm) or $6'-3''(\pm)$ depending upon existence 4. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (+). 5. Offset distance shall be consistent with existing signs or consistent throughout length of project. 6. The (+) tolerance for mounting 7. Folding signs shall be mounted at a height of 5'-3" (\pm) or as directd by the Engineer.

)	
	TYPICAL INSTALLATION
	OF PERMANENT TYPE II
	SIGNS ON SINGLE POSTS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew & Rauch For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>44-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42





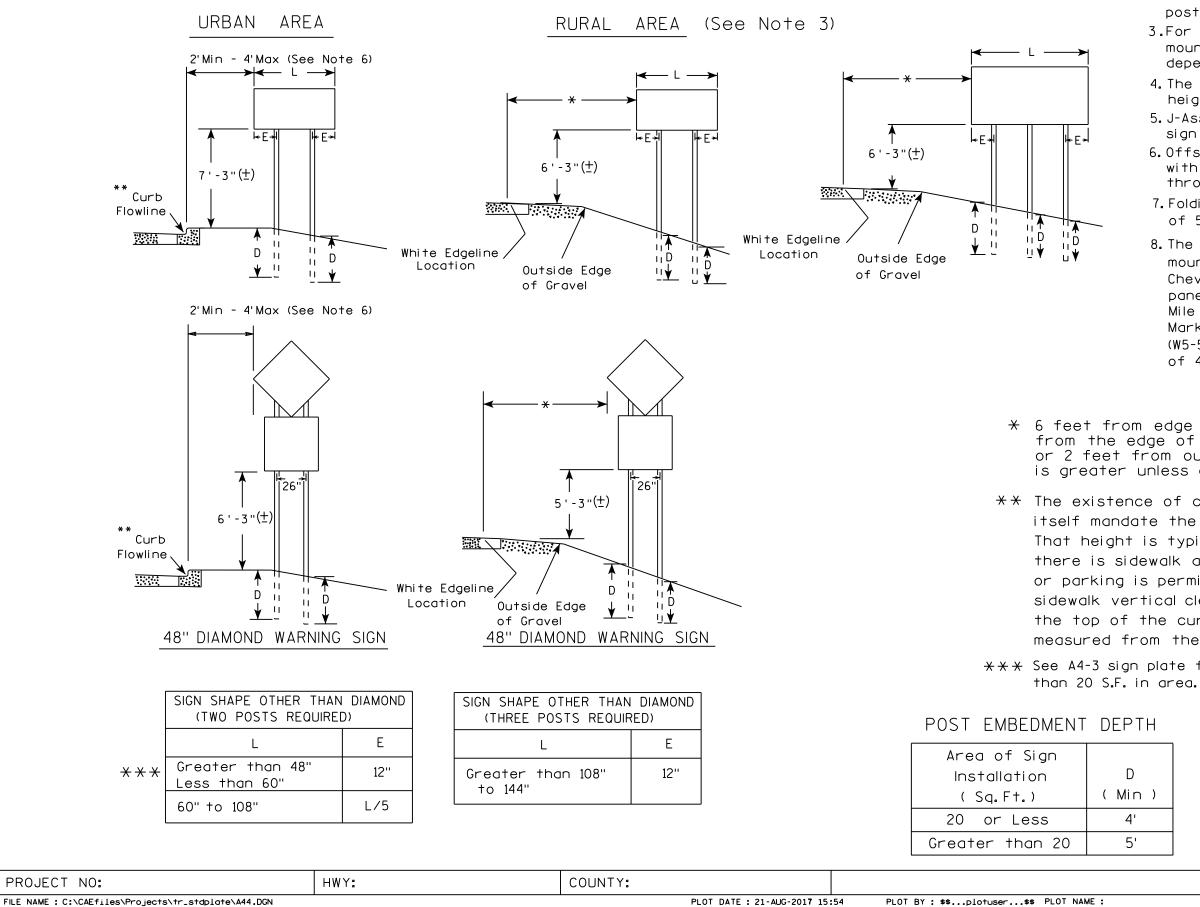
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

DATE <u>1/27/14</u>

SHEET NO:

PLATE NO. <u>A4-3B.1</u>

Ε



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

7

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3.For expressways and freeways, mounting height is $7'-3''(\pm)$ or $6'-3''(\pm)$ 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" (±).

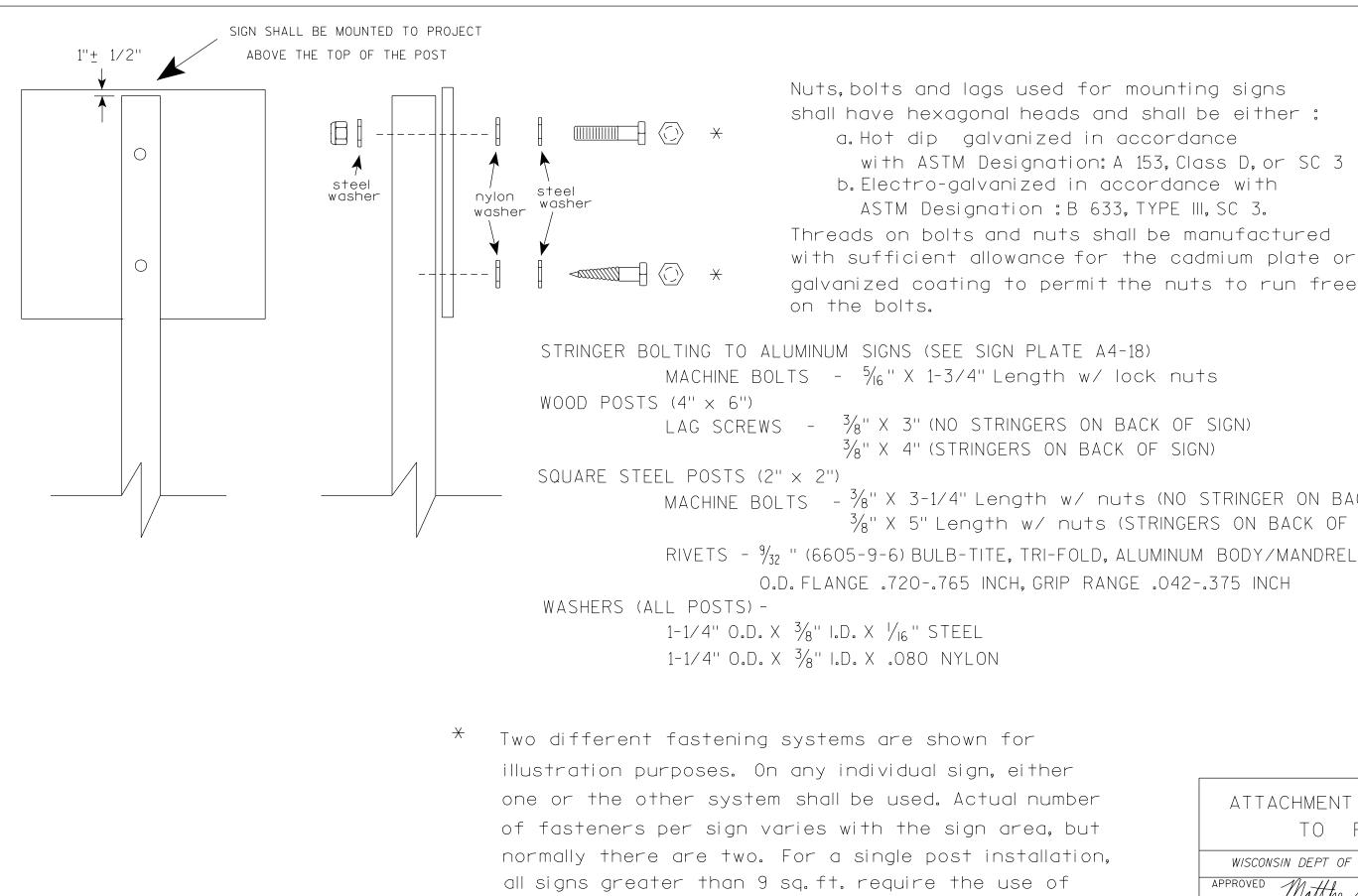
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** 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.

 \times \times See A4-3 sign plate for signs 4' or less in width and less

H	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS
)	WISCONSIN DEPT OF TRANSPORTATION
,	APPROVED Matther & Rauch
	For State Traffic Engineer
	DATE 8/21/17 PLATE NO. 44-4.15
	SHEET NO: E
DI AT. CA	L 5 - 100 100007-1 00000

PLOT SCALE : 108.188297:1.000000



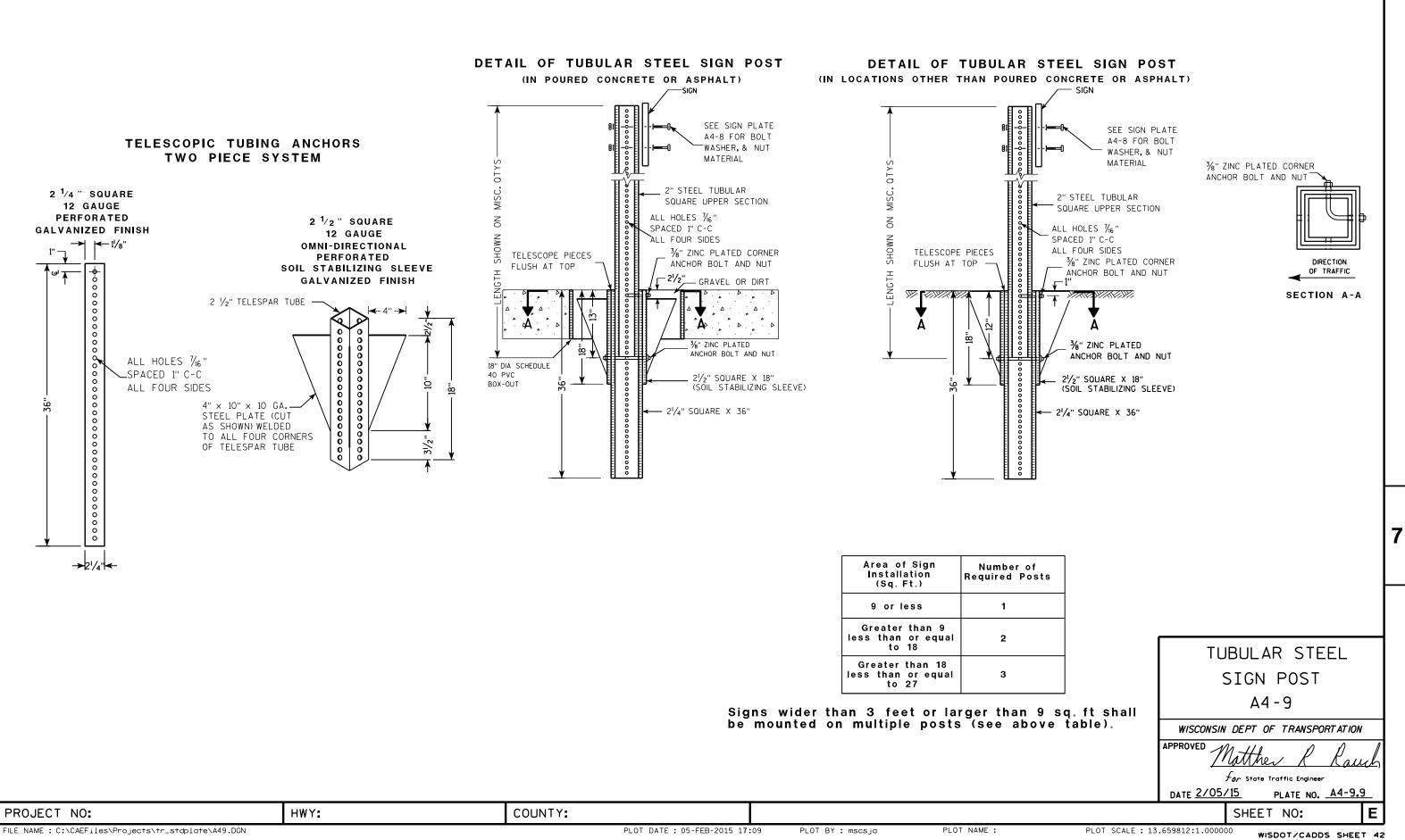
3 fasteners.

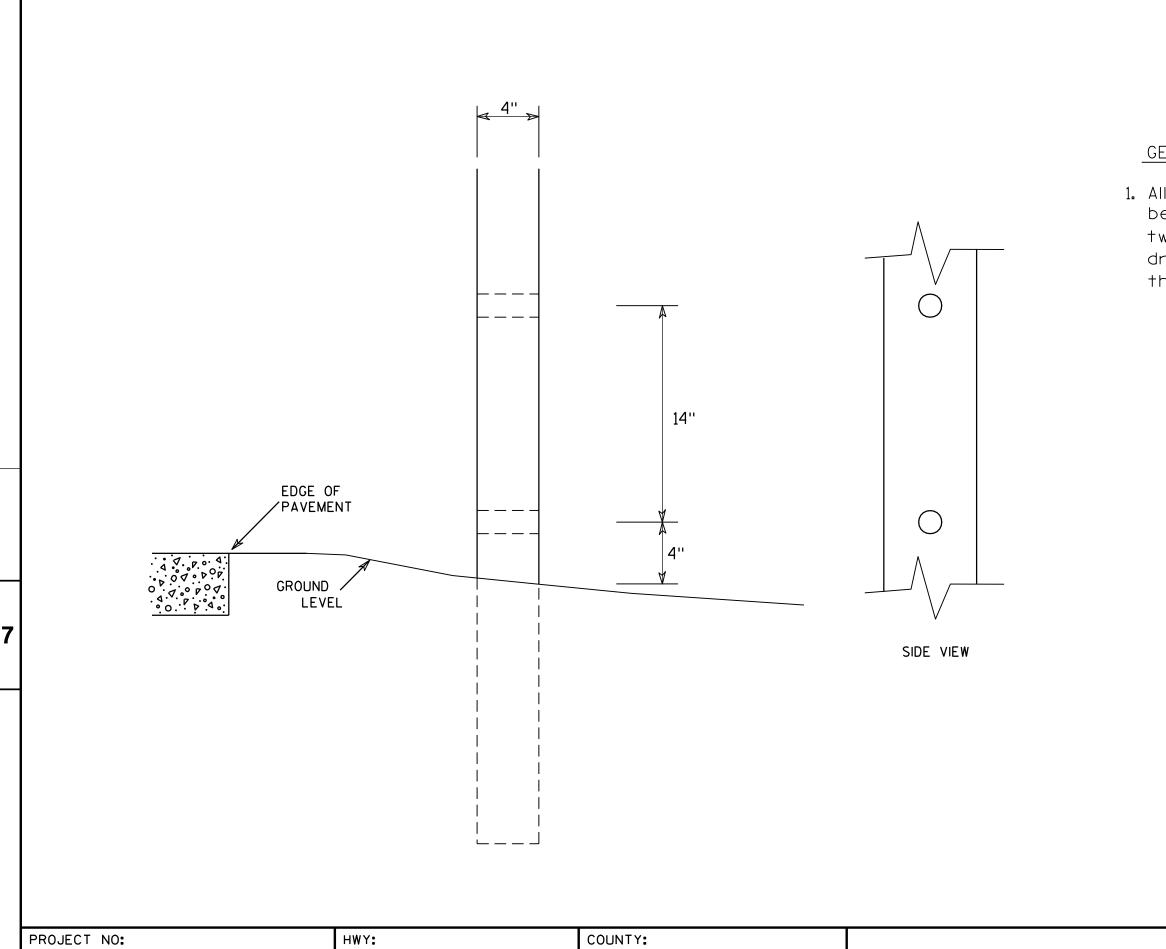
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely

 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

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)

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
∽°r State Traffic Engineer
DATE <u>4/1/202</u> 0 PLATE NO. <u>A4-8.9</u>
SHEET NO: E



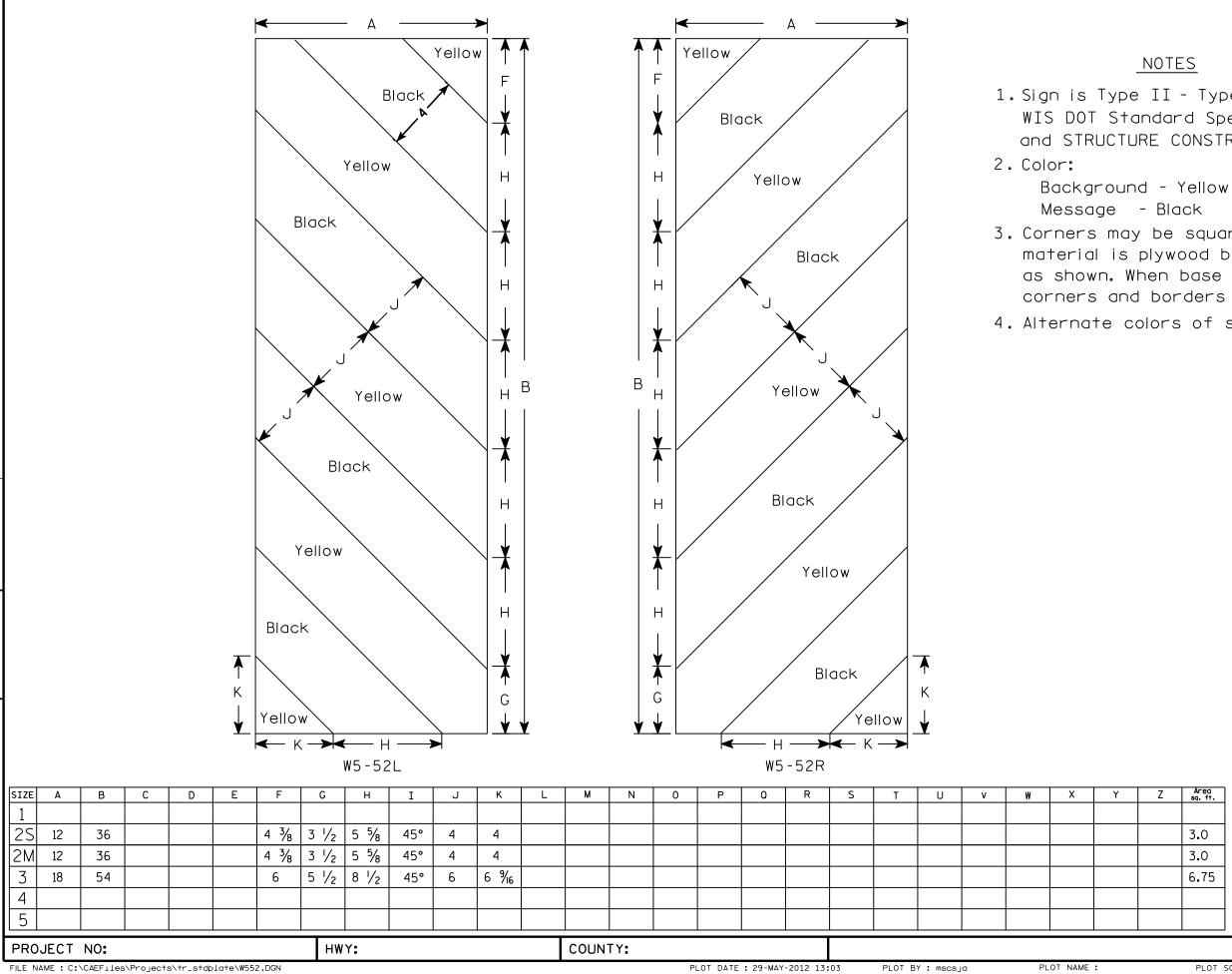


FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

	4	Х	ô	WOO	DF	POST		
		MOD	IF	FICA	TI	SNC		
	WISCONSIN DEPT OF TRANSPORTATION							
	APPROVE	D		hester .	Γέ	Spang		
			tor	State Tr	affic Er	ngineer		
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2	
			9	SHEET	N0:		Ε	
OT SCALE	E:6.20 7 33	8:1.0000	T SCALE : 6.207338:1.000000 WISDOT/CADDS SHEET 42					



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

7

PLOT NAME :

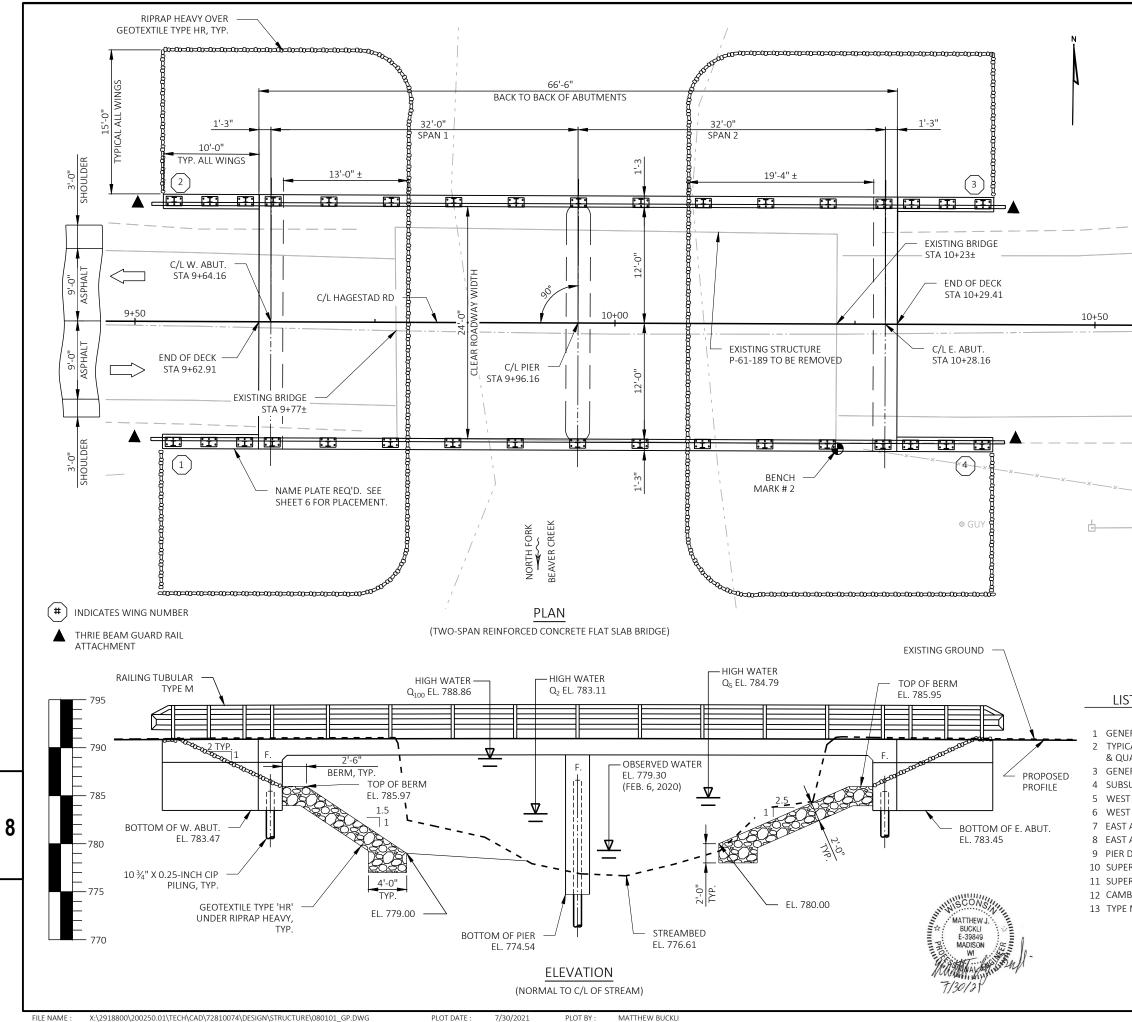
NOTES

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

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. Alternate colors of stripes as shown.

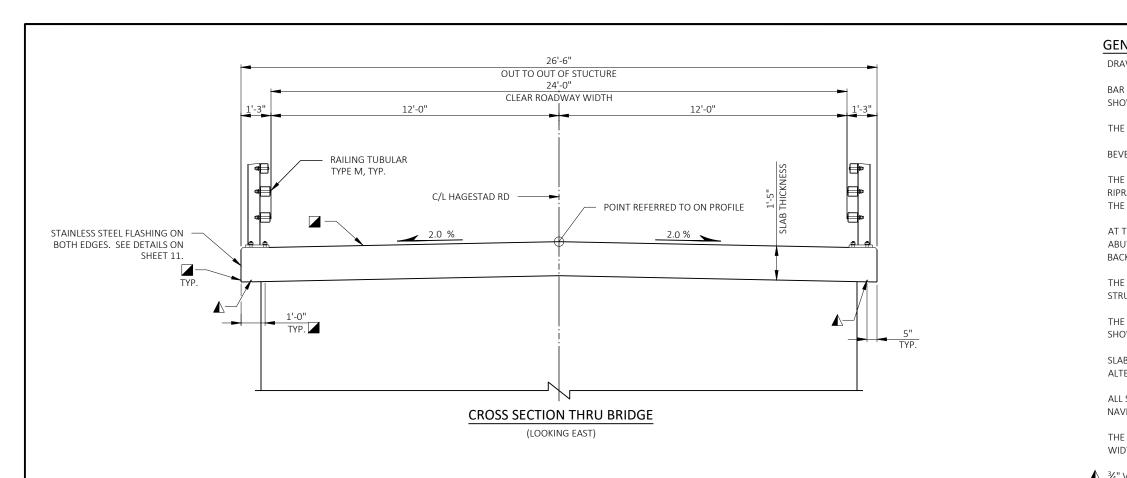
Z	Area sq. ft.	STANDARD SIGN
		W5-52L & W5-52R
	3.0	
	3.0	WISCONSIN DEPT OF TRANSPORTATION
	6.75	APPROVED Matthew R Rauch
		for State Traffic Engineer
		DATE 5/29/12 PLATE NO. W5-52.9
		SHEET NO: E
	PLOT	SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42

PLOT DATE : 29-MAY-2012 13:03



		STAT	E PROJECT N	UMBER	
DESIGN DATA:		7	281-00-	74	
LIVE LOAD: DESIGN LOADING: HL-9 INVENTORY RATING FAI OPERATING RATING FAI WISCONSIN STANDARD STRUCTURE IS DESIGNE SURFACE OF 20 POUND	CTOR: 1.1 CTOR: 1.4 PERMIT D FOR A S PER SQ	3 VEHICLE (WIS FUTURE WEA		KIPS	
MATERIAL PROPER					
CONCRETE MASONRY: SUPERSTRUCTURE -				f'c = 4,000 f'c = 3,500) psi
ALL OTHER	MENT:				
	^			— fy = 60,00	U psi
FOUNDATION DATA ABUTMENTS SUPPORT WITH A REQUIRED DRI DETERMINED BY THE N ESTIMATED 70' LONG.	ED ON 10 VING RES	ISTANCE OF	130* TONS	PER PILE AS	i
PIER SUPPORTED ON 1 REQUIRED DRIVING RE DETERMINED BY THE N ESTIMATED 90' LONG.	SISTANCE	OF 130* TO	NS PER PILE	AS	д
* THE FACTORED AXIAI FOR DESIGN IS THE REC RESISTANCE FACTOR O DRIVEN PILE CAPACITY	QUIRED D F 0.5 USII	RIVING RESIS	TANCE MU	LTIPLIED BY A	
<u>HYDRAULIC DATA:</u> <u>100 YEAR FREQUENCY</u> Q ₁₀₀ = 3150 C.F.S. VELOCITY = 7.31 F.P.S. HW ₁₀₀ = EL. 788.86					
WATERWAY AREA = 431. DRAINAGE AREA = 44.50 ROADWAY OVERTOPPING SCOUR CRITICAL CODE =	SQ. MI. G = NA			25	
$\frac{5 \text{ YEAR FREQUENCY}}{Q_5 = 1100 \text{ C.F.S.}}$ $\frac{100 \text{ C.F.S.}}{\text{VELOCITY} = 7.07 \text{ F.P.S.}}$ $\frac{100 \text{ HW}_5 = \text{EL. 784.79}}{100 \text{ C.F.S.}}$		$\frac{\text{TEMPORAR}}{\text{Q}_5} = 1100$ $\text{HW}_5 = \text{EL}.$ MINIMUM	C.F.S.		
$\frac{2 \text{ YEAR FREQUENCY}}{Q_2 = 760 \text{ C.F.S.}}$ $\text{VELOCITY} = 5.09 \text{ F.P.S.}$ $\text{HW}_2 = \text{EL. 783.11}$					
TRAFFIC DATA:					
ADT (2022) = 25 ADT (2042) = 40 DESIGN SPEED = 40 N	ЛРН				
T OF DRAWINGS:					
	ГТ				
	. DATE		REVISION		BY
AL SECTION, GENERAL NOTES	ľ	Mead		Mead & Hunt, Inc. 2440 Deming Way	/
RAL DETAILS URFACE EXPLORATION	Ż	Hun	-	Middleton, WI 5356 608.273.6380	
ABUTMENT	0	STATE (DF WISCON	www.meadhunt.co SIN	^m 8
ABUTMENT DETAILS	D	EPARTMENT	OF TRANSP	ORTATION	Ĭ
ABUTMENT DETAILS	CEPTED	AM		PR 11/24/	21
DETAILS		HIEF STRUCTURES	DESIGN ENGIN	EER DATE	
RSTRUCTURE	ST	RUCTURE	EB-61-2	46	
BER AND BILL OF BARS		AD ROAD OVE		ORK BEAVER C	REEK
IVI RAILING DETAILS		MPEALEAU	TOWN /C	ITY/VILLAGE ETTR	RICK
	IGN SPEC. ASHTO LRFD I IGNED	BRIDGE DESIGN SF	DRAWN	PLANS	
AARON BONK, P.E.	IGNED RCP	design ck'd. TJF	BY BY	MJB _{CK'D.} R	СР
TELEPHONE: (608) 261-0261 CONSULTANT CONTACT	GEI	NERAL PL	AN	SHEET 1 OF	13
MATT BUCKLI, P.E. TELEPHONE: (608) 443-0441					
				1	

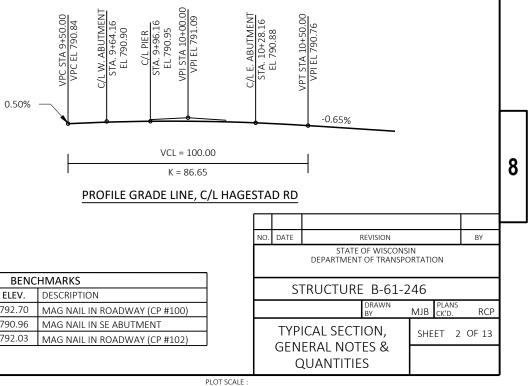
PLOT SCALE :



TOTAL ESTIMATED QUANTITES

8

BID ITEM NO.	BID ITEMS	UNIT	W ABUT	E ABUT	PIER	SUPER	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-61-189	LS					1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-61-246	LS					1
210.1500	BACKFILL STRUCTURE TYPE A	TON	96	96			192
502.0100	CONCRETE MASONRY BRIDGES	CY	26.7	26.7	31.6	96.4	182
502.3200	PROTECTIVE SURFACE TREATMENT	SY	10	10		232	252
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1510	1510	1690		4710
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1350	1350		21270	23970
513.4061	RAILING TUBULAR TYPE M B-61-246	LF					178
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8	8			16
550.2104	PILING CIP CONCRETE 10 3/4 X 0.25-INCH	LF	280	280	720		1280
606.0300	RIPRAP HEAVY	CY	101	116			217
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	62	62			124
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	26	26			52
645.0120	GEOTEXTILE TYPE HR	SY	210	230			440
SPV.0090.01	FLASHING STAINLESS STEEL	LF				133	133
	NON BID ITEMS						
	FILLER	SIZE					1/2" & 3/4"



BENCHMARKS						
NO.	STATION	ELEV.	DESCRIPTION			
BM1	12+74.8, 00.0' RT	792.70	MAG NAIL IN ROAD			
BM2	10+23.2, 13.0' RT	790.96	MAG NAIL IN SE AB			
BM3	6+57.5, 00.9' RT	792.03	MAG NAIL IN ROAD			

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

STATE PROJECT NUMBER

7281-00-74

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

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

BEVEL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

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

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

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

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

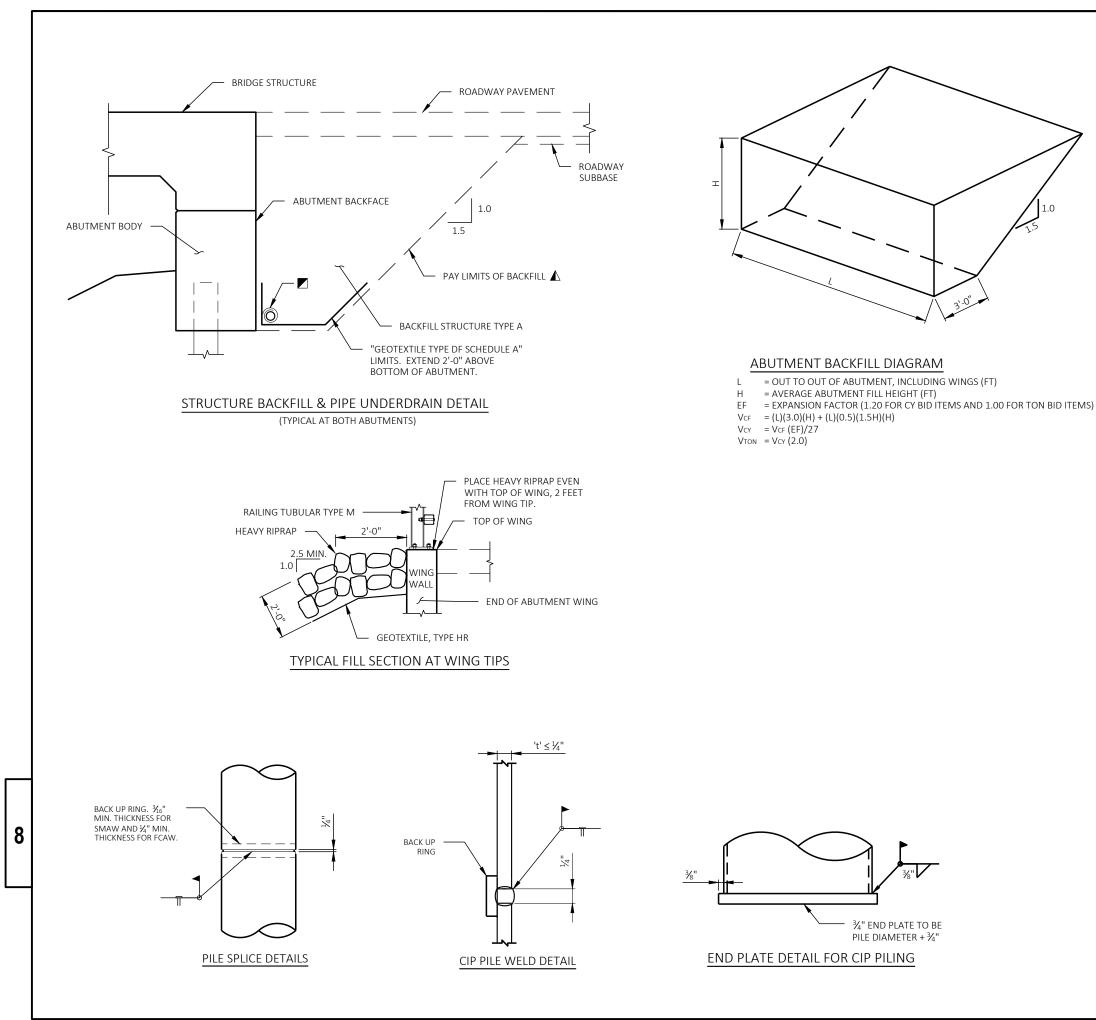
SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATIVE METHOD IS APPROVED BY THE ENGINEER.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO NAVD88 (1991) DATUM.

THE EXISTING STRUCTURE TO BE REMOVED IS A 46.0' LONG BY 20.0' CLEAR ROADWAY WIDTH, SINGLE-SPAN PRESTRESSED CHANNEL BEAM BRIDGE (P-61-189).

▲ ¾" V-GROOVE REQ'D. EXTEND TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGM.

COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-0" OF THE FRONT FACE OF ABUTMENT.



STATE PROJECT NUMBER

7281-00-74

STRUCTURE BACKFILL NOTES

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-61-246" SHALL BE THE EXISTING GROUNDLINE.

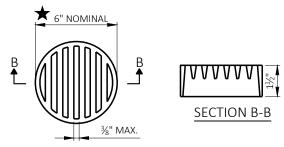
THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

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

LEGEND

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

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



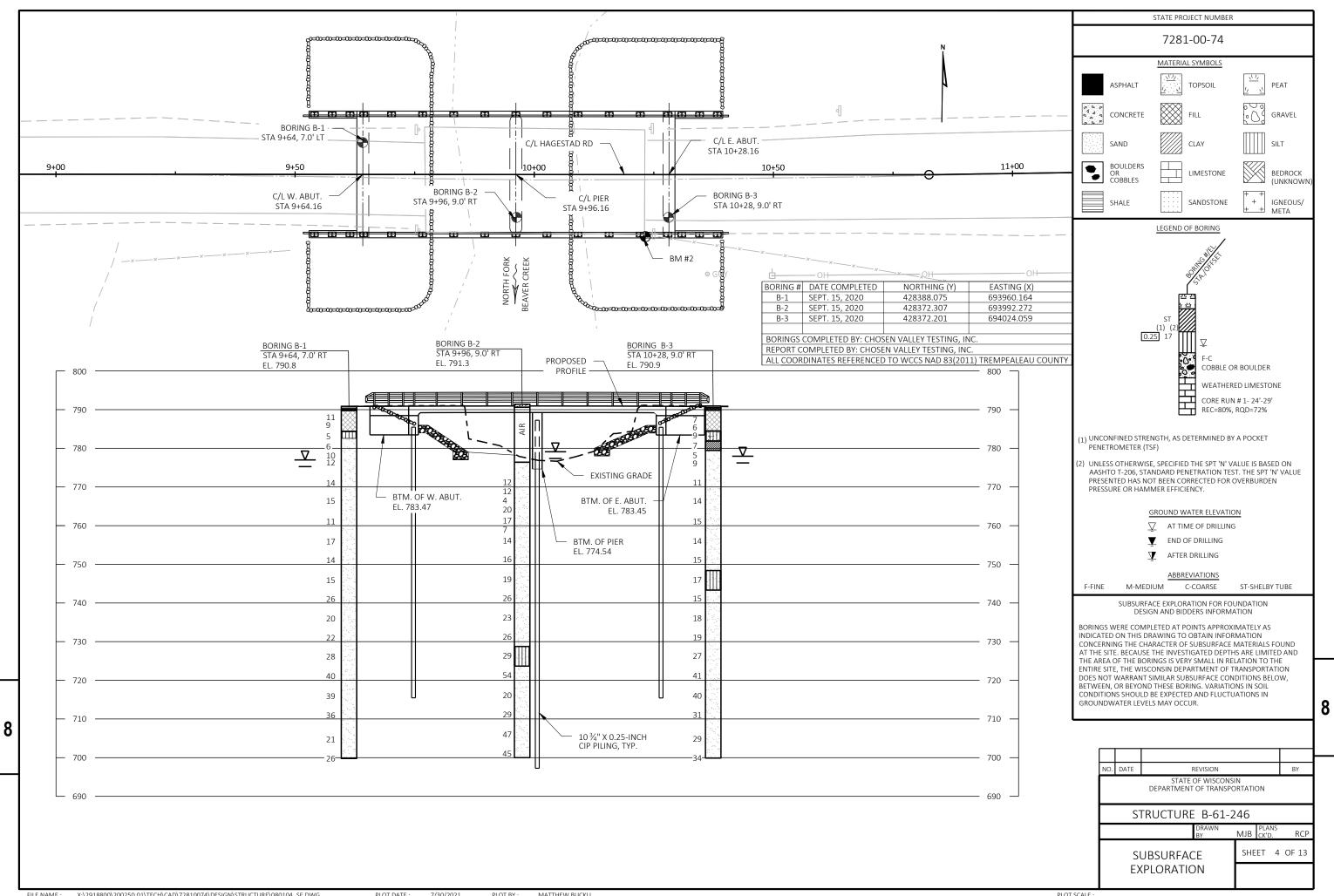
RODENT SHIELD

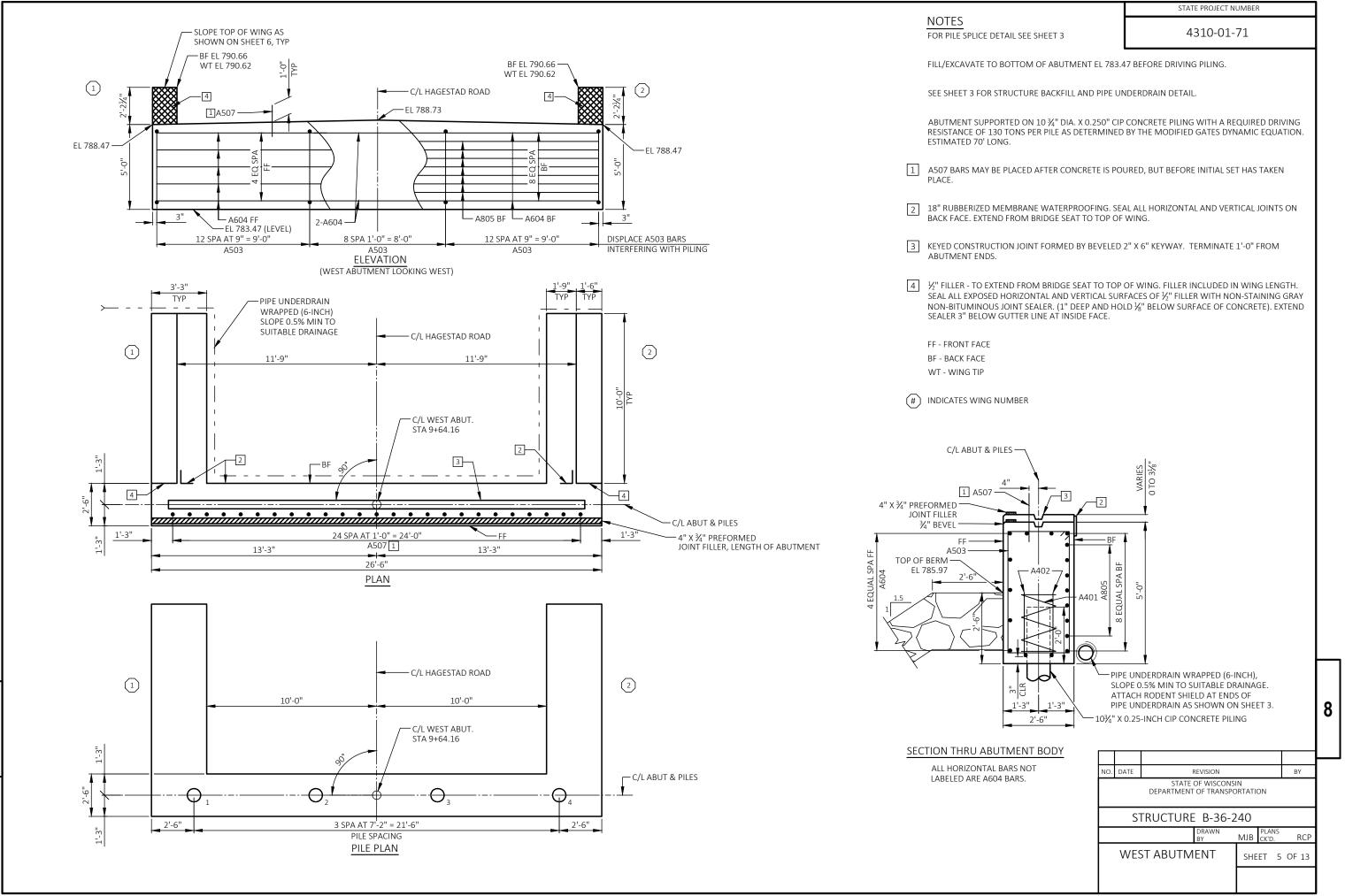
TIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

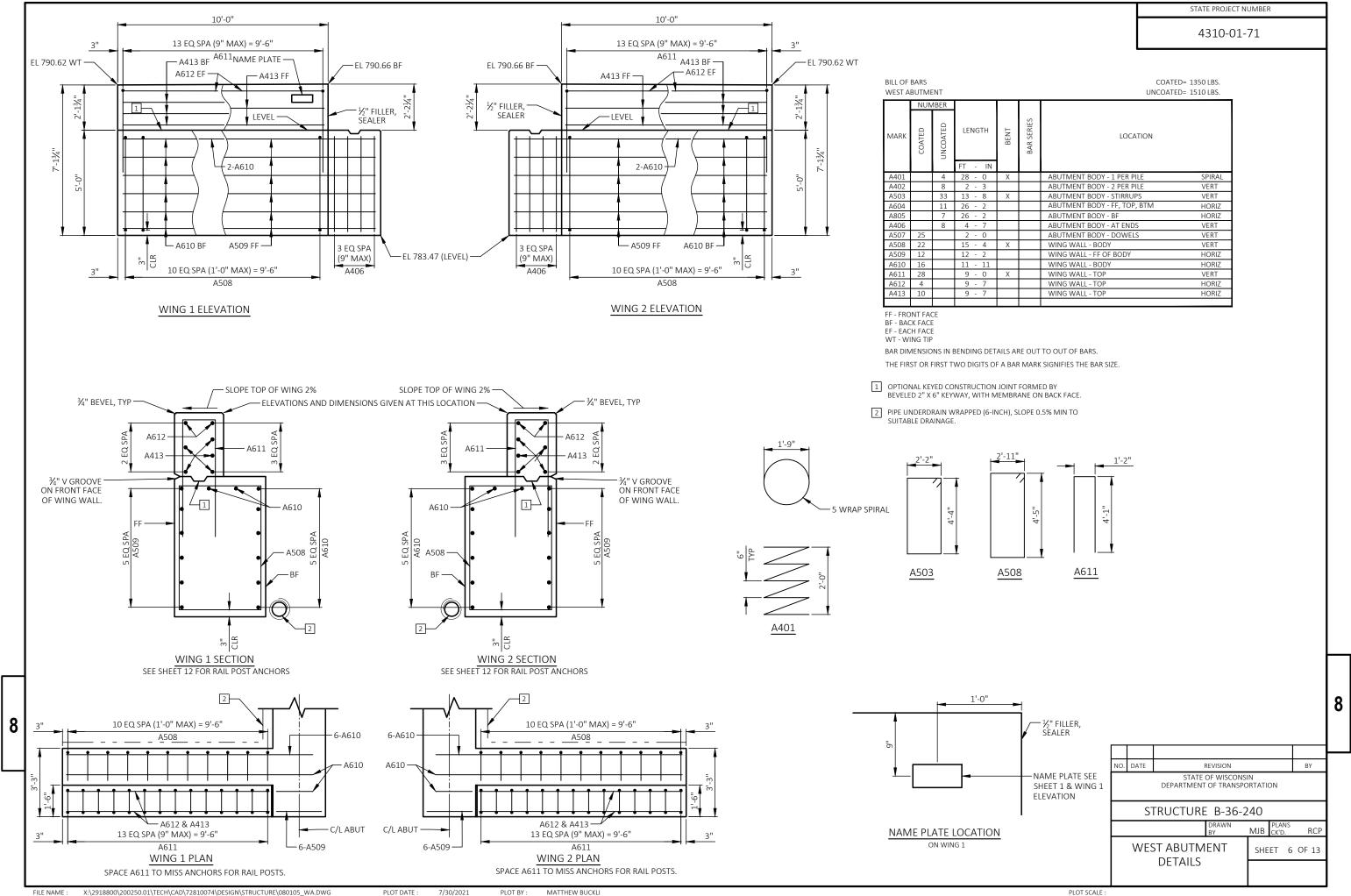
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

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

NO.	DATE		REVISION			BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
STRUCTURE B-61-246						
			DRAWN BY	MJB	PLANS CK'D.	RCP
	GEN	IERAL DET	AILS	SHE	ET 3	OF 13

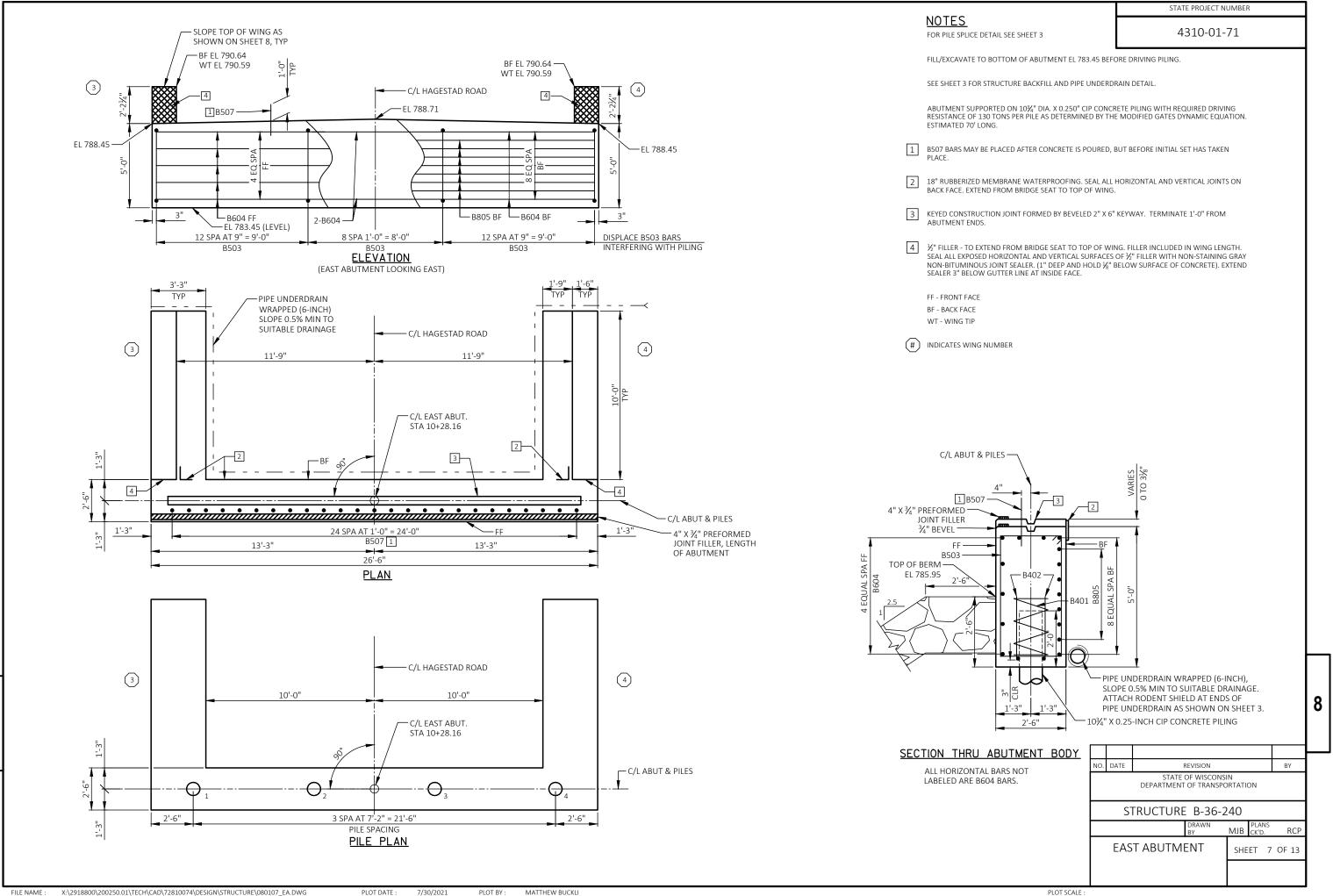


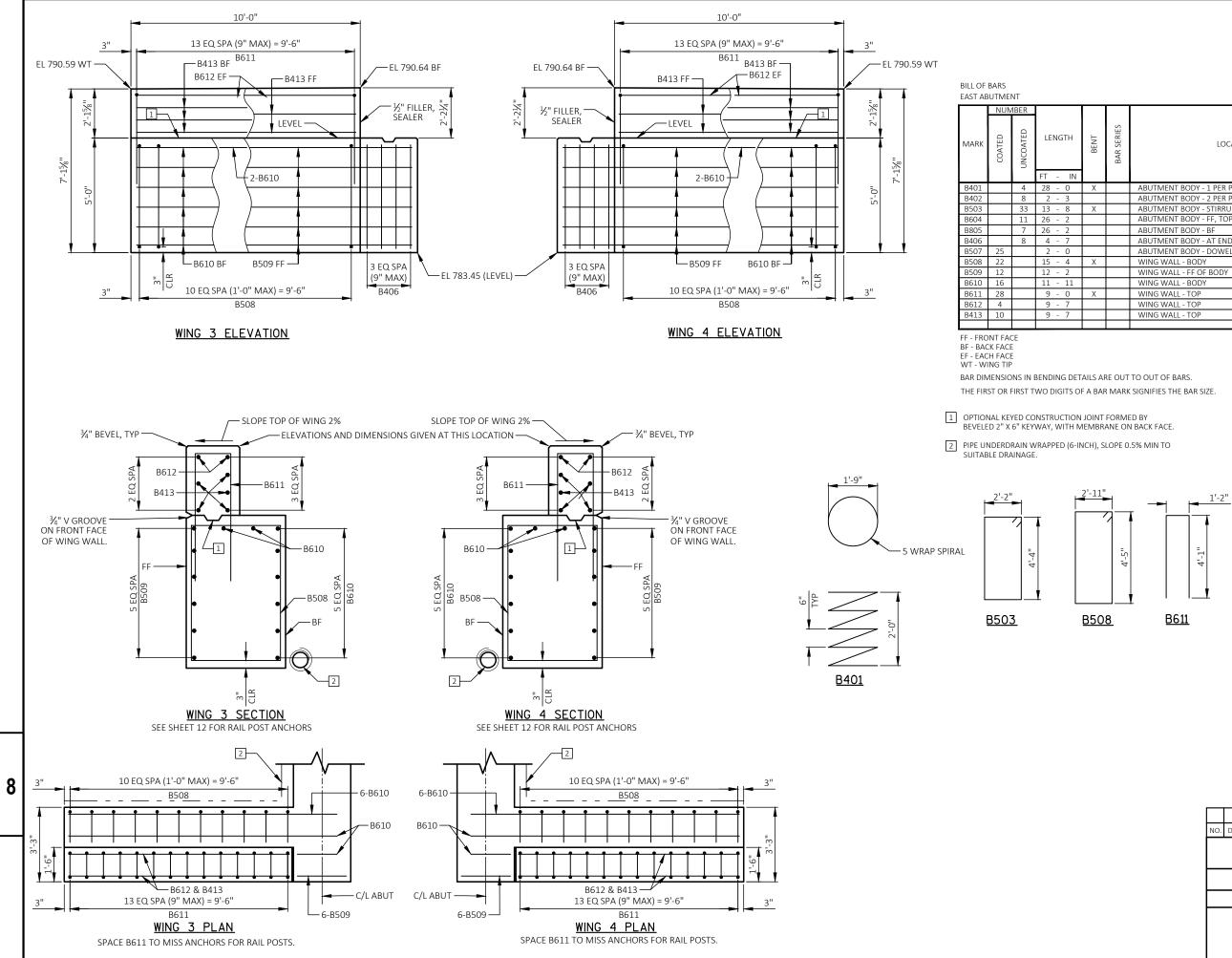




PLOT BY :

BENT	BAR SERIES	LOCATION	
Х		ABUTMENT BODY - 1 PER PILE	SPIRAL
		ABUTMENT BODY - 2 PER PILE	VERT
Х		ABUTMENT BODY - STIRRUPS	VERT
		ABUTMENT BODY - FF, TOP, BTM	HORIZ
		ABUTMENT BODY - BF	HORIZ
		ABUTMENT BODY - AT ENDS	VERT
		ABUTMENT BODY - DOWELS	VERT
Х		WING WALL - BODY	VERT
		WING WALL - FF OF BODY	HORIZ
		WING WALL - BODY	HORIZ
Х		WING WALL - TOP	VERT
		WING WALL - TOP	HORIZ
		WING WALL - TOP	HORIZ





FILE NAME : X:\2918800\200250.01\TECH\CAD\72810074\DESIGN\STRUCTURE\080107_EA.DWG PLOT DATE : 7/30/2021 PLOT BY : MATTHEW BUCKLI

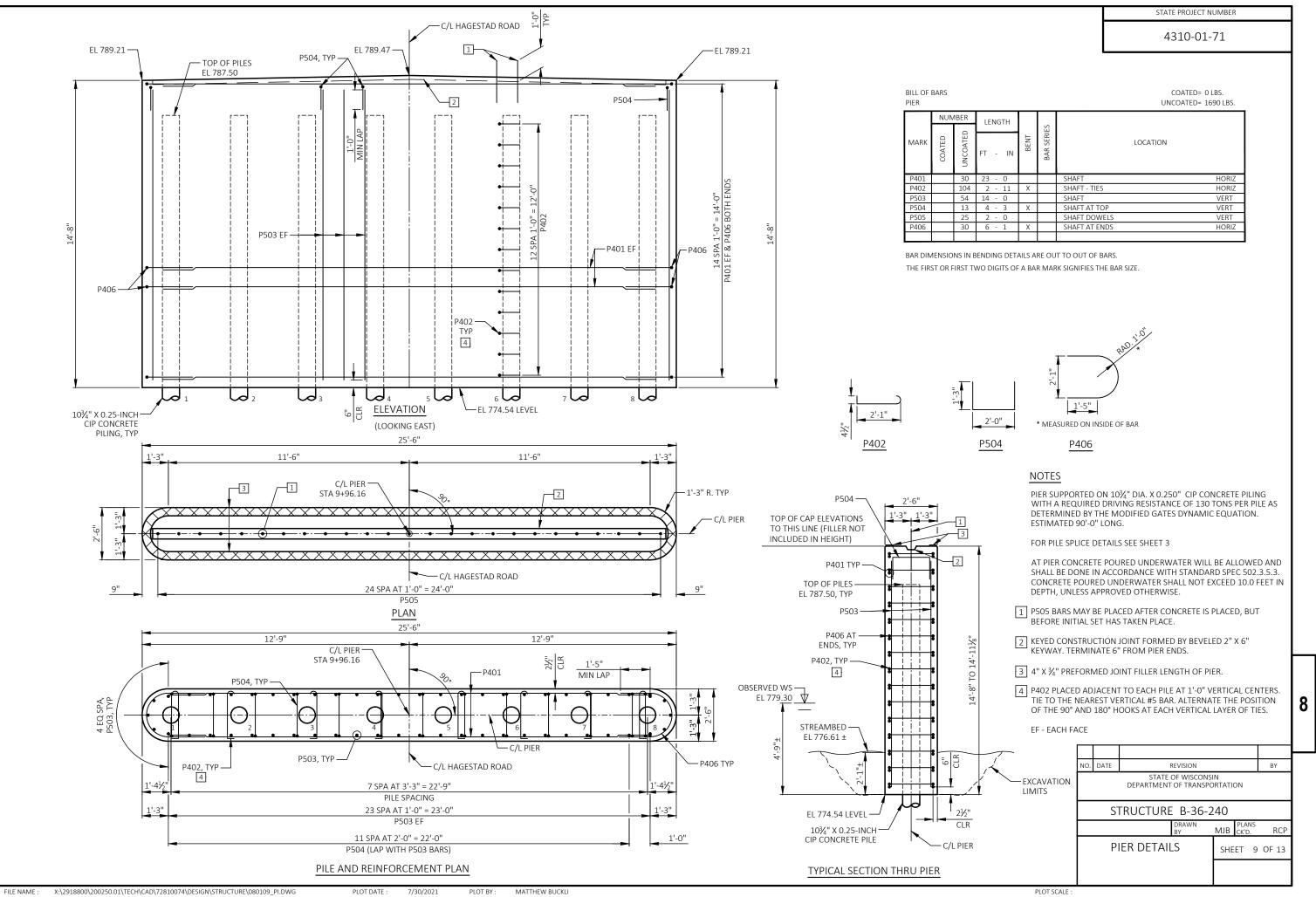
STATE PROJECT NUMBER

4310-01-71

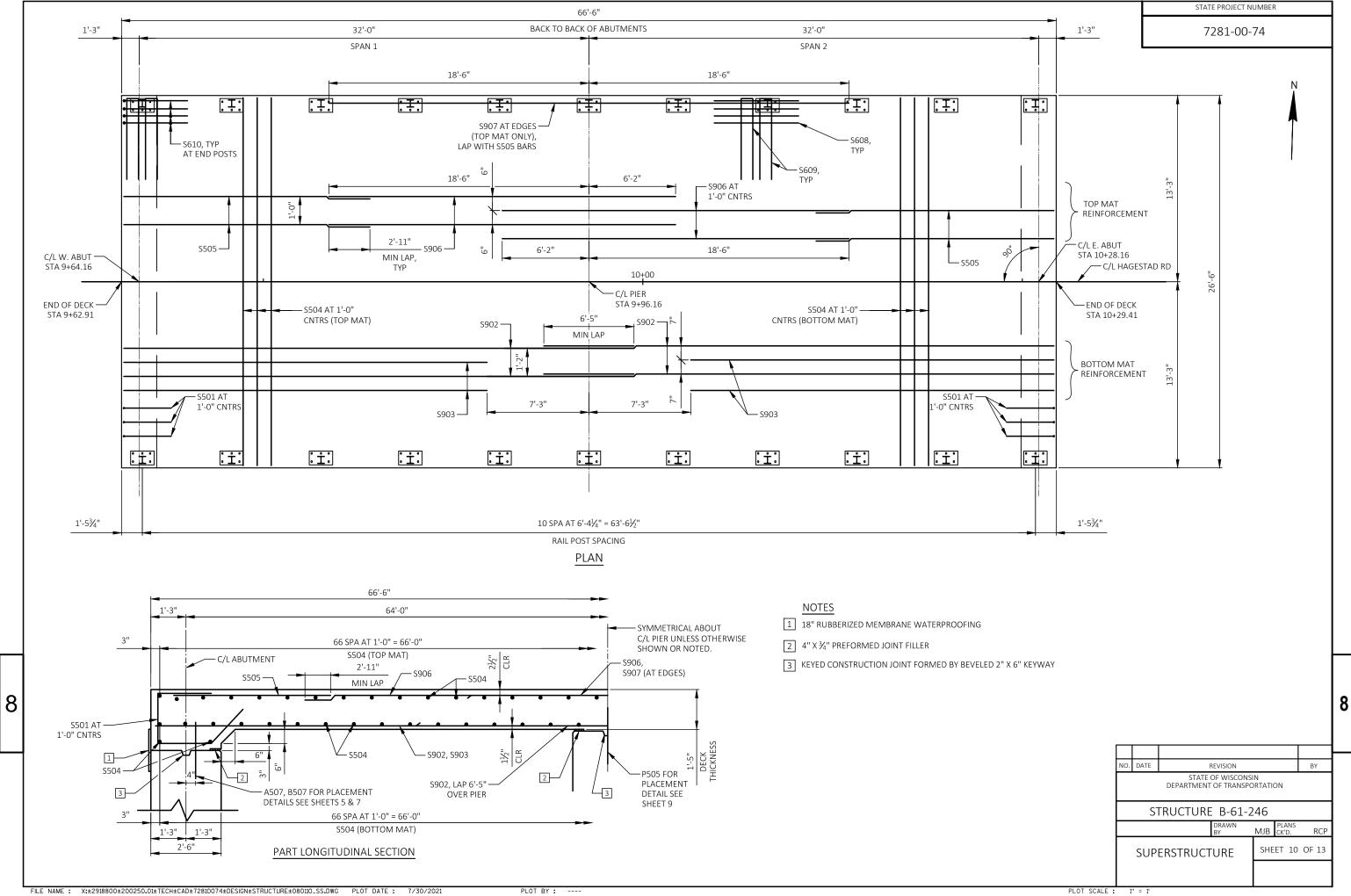
COATED= 1350 LBS. UNCOATED= 1510 LBS.

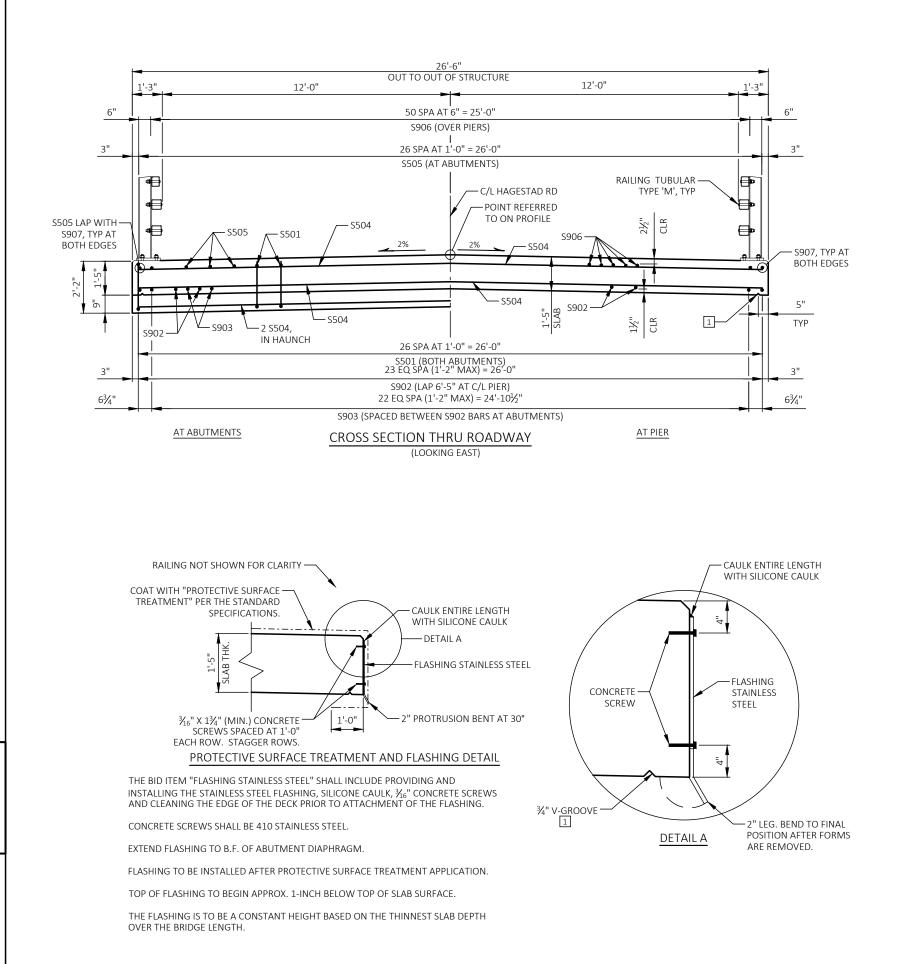
1	BENT	BAR SERIES	LOCATION	
T	Х		ABUTMENT BODY - 1 PER PILE	SPIRAL
			ABUTMENT BODY - 2 PER PILE	VERT
	Х		ABUTMENT BODY - STIRRUPS	VERT
			ABUTMENT BODY - FF, TOP, BTM	HORIZ
			ABUTMENT BODY - BF	HORIZ
			ABUTMENT BODY - AT ENDS	VERT
Т			ABUTMENT BODY - DOWELS	VERT
	Х		WING WALL - BODY	VERT
			WING WALL - FF OF BODY	HORIZ
			WING WALL - BODY	HORIZ
	Х		WING WALL - TOP	VERT
			WING WALL - TOP	HORIZ
			WING WALL - TOP	HORIZ

NO.	DATE	REVISION			BY			
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION							
STRUCTURE B-36-240								
		DRAWN BY	MJB	PLANS CK'D.	RCP			
	EAS	T ABUTMENT	SHE	ET 8	OF 13			
	DETAILS							



BER	LENGTH									
~	LENGTH		ES							
UNCOATED	FT - IN	BENT	BAR SERIES	LOCATION						
30	23 - 0			SHAFT	HORIZ					
104	2 - 11	Х		SHAFT - TIES	HORIZ					
54	14 - 0			SHAFT	VERT					
13	4 - 3	Х		SHAFT AT TOP	VERT					
25	2 - 0			SHAFT DOWELS	VERT					
30	6 - 1	Х		SHAFT AT ENDS	HORIZ					





NOTES:

CENTERS.

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

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS, C/L OF PIER AND AT $\frac{5}{10}$ PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF DECK AND C/L.

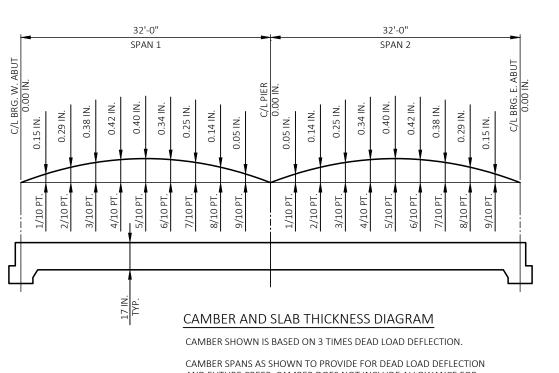
1 $\frac{3}{4}$ " V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGM. V-GROOVES ARE REQUIRED.

STATE PROJECT NUMBER

7281-00-74

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

NO.	DATE		REVISION		BY			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
STRUCTURE B-61-246								
			DRAWN BY	MJB CK'D.	s RCP			
	SUP	ERSTRUC	CTURE	SHEET 1	1 OF 13			
		DETAILS	5					



AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

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

TOP OF SLAB ELEVATION AT FINAL GRADE MINUS..... SLAB THICKNESS

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

EQUALS = TOP OF SLAB FALSEWORK ELEVATION

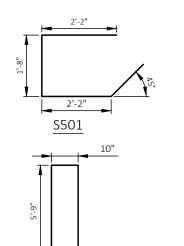
SURVEY TOP OF SLAB ELEVATIONS

	C/L BRG. WEST ABUTMENT	5/10 PT.	C/L PIER	5/10 PT.	C/L BRG. EAST ABUTMENT
NORTH EDGE OF SLAB					
C/L HAGESTAD ROAD / CROWN					
SOUTH EDGE OF SLAB					

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



MARK



S501 S902 S903 S504 S505 S906 S907 S608 S609 S610

S609



1'-6"



FILE NAME :	X:±2918800±200250.01±TECH±CAD±72810074±DESIGN±STRUCTURE±080110_SS.DWG	PLOT DATE :	7/30/2021	PLOT BY :	MATTHEW BUCKLI

8

STATE PROJECT NUMBER

7281-00-74

COATED= 21270 LBS.

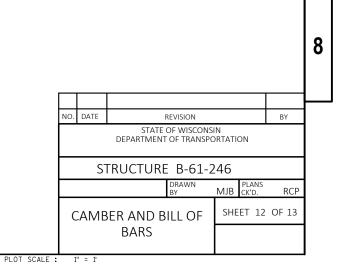
STRUC	TURE				UNCOATED= () LBS.	
NUM	IBER						
COATED	UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION		
		FT - IN					
54		7 - 10	Х		SLAB - ABUTMENT TIES	LONGIT	
48		36 - 4			SLAB - BOTTOM	LONGIT	
46		25 - 10			SLAB - BOTTOM	LONGIT	
138		26 - 2			SLAB - TOP & BOTTOM	TRANS	
54		17 - 6			SLAB - TOP	LONGIT	
51		24 - 8			SLAB - TOP	LONGIT	
2		37 - 0			SLAB - TOP AT EDGES	LONGIT	
72		6 - 0			RAILING ANCHORS	LONGIT	
44		12 - 0	Х		RAILING ANCHORS	TRANS	
16		5 - 8	Х		RAILING ANCHORS AT CORNERS	LONGIT	

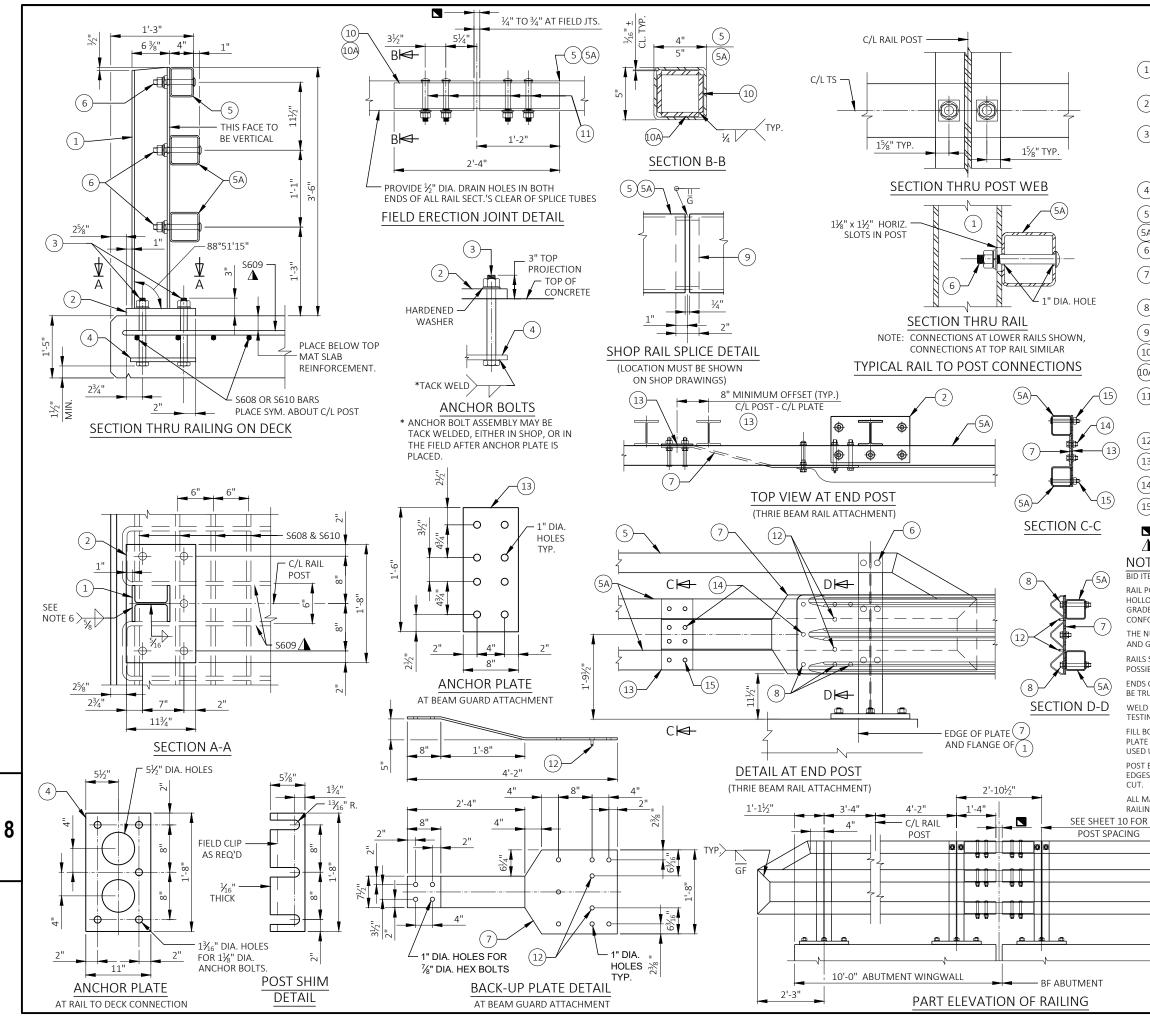
BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

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

TOP OF SLAB ELEVATIONS

	NORTH	EDGE	CENTERLIN	e/crown	SOUTH	EDGE		
AN PT.	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION		
ABUT.	9 + 64.16	790.63	9 + 64.16	790.90	9 + 64.16	790.63		
0.1	9 + 67.36	790.64	9 + 67.36	790.91	9 + 67.36	790.64		
0.2	9 + 70.56	790.65	9 + 70.56	790.92	9 + 70.56	790.65		
0.3	9 + 73.76	790.66	9 + 73.76	790.93	9 + 73.76	790.66		
0.4	9 + 76.96	790.67	9 + 76.96	790.93	9 + 76.96	790.67		
0.5	9 + 80.16	790.67	9 + 80.16	790.94	9 + 80.16	790.67		
0.6	9 + 83.36	790.68	9 + 83.36	790.94	9 + 83.36	790.68		
0.7	9 + 86.56	790.68	9 + 86.56	790.95	9 + 86.56	790.68		
0.8	9 + 89.76	790.68	9 + 89.76	790.95	9 + 89.76	790.68		
0.9	9 + 92.96	790.68	9 + 92.96	790.95	9 + 92.96	790.68		
IER	9 + 96.16	790.68	9 + 96.16	790.95	9 + 96.16	790.68		
0.1	9 + 99.36	790.68	9 + 99.36	790.95	9 + 99.36	790.68		
0.2	10 + 02.56	790.68	10 + 02.56	790.94	10 + 02.56	790.68		
0.3	10 + 05.76	790.68	10 + 05.76	790.94	10 + 05.76	790.68		
0.4	10 + 08.96	790.67	10 + 08.96	790.93	10 + 08.96	790.67		
0.5	10 + 12.16	790.66	10 + 12.16	790.93	10 + 12.16	790.66		
0.6	10 + 15.36	790.66	10 + 15.36	790.92	10 + 15.36	790.66		
0.7	10 + 18.56	790.65	10 + 18.56	790.91	10 + 18.56	790.65		
0.8	10 + 21.76	790.64	10 + 21.76	790.90	10 + 21.76	790.64		
0.9	10 + 24.96	790.63	10 + 24.96	790.89	10 + 24.96	790.63		
ABUT.	10 + 28.16	790.61	10 + 28.16	790.88	10 + 28.16	790.61		





FILE NAME :
 X:\2918800\200250.01\TECH\CAD\72810074\DESIGN\STRUCTURE\080113_RL.DWG
 PLOT DATE :
 7/30/2021
 PLOT

DATE : 7/30/2021 PLOT BY : MATTHEW BUCKLI

STATE PROJECT NUMBER

7281-00-74

LEGEND (1) W6 x 25 WITH $1\frac{1}{8}$ " X $1\frac{1}{2}$ " HORIZONTAL SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE. (2) PLATE $1\frac{1}{4}$ " x $11\frac{3}{4}$ " x 1^{+8} " WITH $1\frac{7}{16}$ " DIA. OVERSIZED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. (3) ASTM A449 - 1¹/₈" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2 CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG IN WINGS AND 1'-3" LONG IN SLAB. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR CONSTRUCTABILITY.) (4) %" x 11" x 1'-8" anchor plate (Galvanized) with $1\%"_{16}$ dia. Holes for anchor bolts No. 3 5 TS 5 x 4 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6 (5A) TS 5 x 5 x 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6 %" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, $\%_6$ "X 1%" X 1%" MIN. WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION.) (6) $\frac{1}{2}$ Thk. Back-up plate with 2 - $\frac{1}{8}$ " X $1\frac{1}{2}$ " threaded shop welded studs (no. 12). Bolt to rail as shown in detail. Required at three beam guard rail attachments ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO. 5A. $\binom{8}{1}$ 1" DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5A FOR $\frac{7}{8}$ " DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO. 7. (9) SPLICE SLEEVE FABRICATED FROM ¼" PLATE. PROVIDE "SLIDING FIT" (10) ¾"X 35/%"X 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A. (10A) ¾" X 2½" X 2'-4" PLATE USED IN NO. 5, ¾" X 3½" X 2'-4" PLATE USED IN NO. 5, ¾" X 3½" X 2'-4" PLATE USED IN NO. 5A. 2 PER RAIL. (11) 7_8 " dia. A325 round head bolt with NUT, washer, and lock washer. Use 15/16" X 11/4" LONGIT. SLOTTED HOLES IN PLATE NO. 10A. AT FIELD JOINTS AND $^{15}\!\!/_{16}$ " X $2^{1}\!\!/_{4}$ " MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A. PROVIDE $^{15}\!\!/_{16}$ " DIA. ROUND HOLES IN TUBES NO. 5 AND NO. 5A. (12) $\frac{7}{8}$ " dia. X $\frac{1}{2}$ " long threaded shop welded studs (2 req'd). (13) %" X 8" X 1'-6" PLATE. BOLT TO RAIL AS SHOWN IN DETAIL. REQ'D. AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYM. ABOUT TUBES NO. 5A. (14) %" dia. X 2" long A325 hex bolt with nut and washer (5 req'd.) (15) 1" DIA. HOLES IN TUBES NO. 5A FOR 7%" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4 REQ'D.). 4 HOLES IN TUBES. ▲ ¼" TO ¾" OPENING AT ABUTMENT. TIE TO TOP MAT OF STEEL. NOTES BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-61-246" WHICH INCLUDES ALL ITEMS SHOWN. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL 8 RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY SSPC SPECIFICATIONS. O. DATE REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-61-246 MJB CK'D RCF **TYPE M RAILING** SHEET 13 OF 13 DETAILS

HAGESTAD RD

		AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)	
STATION	CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL		FILL	CUT SALVAGED/UNUSABLE FILL PAVEMENT MATERIAL		CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 4	
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NUTE 4
9+00	23	5	0	0	0	0	0	0	0
9+25	23	5	16	21	5	7	21	9	7
9+28	23	5	15	3	1	2	24	11	7
9+53	26	5	9	22	5	11	46	25	10
9+63	24	5	0	9	2	2	55	28	15
10+29	24	6	0	0	0	0	55	28	15
10+39	33	6	22	11	2	4	66	33	19
10+50	33	6	25	14	2	9	79	44	18
10+64	34	6	18	18	3	11	97	58	19
10+80	33	6	0	20	4	5	117	65	28
				117	24	52			

TEMP BYPASS RD

		AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)	
STATION	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
49+94	0	0	0	0	0	0	0	0	0
50+25	5	0	0	3	0	0	3	0	3
50+50	17	0	0	10	0	0	13	1	13
50+75	6	0	5	11	0	2	24	4	20
51+00	3	0	7	4	0	6	28	11	17
51+25	7	0	2	5	0	4	33	16	16
51+50	74	0	0	38	0	1	71	18	53
51+75	5	0	7	37	0	3	107	21	86
52+00	10	0	16	7	0	10	114	35	80
52+25	12	0	20	10	0	17	125	55	69
52+75	0	0	170	0	0	0	125	55	69
53+00	14	0	12	6	0	84	131	161	-30
53+25	64	0	1	36	0	6	167	168	-2
53+50	172	0	0	109	0	0	276	169	107
53+75	216	0	0	180	0	0	456	169	287
54+00	136	0	0	163	0	0	619	169	450
54+25	64	0	0	93	0	0	711	169	542
54+50	30	0	0	43	0	0	755	169	586
54+75	15	0	0	21	0	0	775	169	606
54+93	0	0	0	5	0	0	780	169	611
				780	0	135			

NOTES: 1 - Cut (Salvage/Unusable Pavement Material Included.) 2 - Salvage/Unusable Pavement Material. (This does not show up in the cross sections.) 3 - Fill (Does not include Unusable Pavement volume.) 4 - The Mass Ordinate + of - quantities calculated. Plus quantities as excess of material. Minus a shortage of material.

No Marsh of EBS is anticipated.

PROJECT NO:	7281-00-74	HWY: LOCAL STREET	COUNTY:	TREMPEALEAU		EARTHWORK QU		
FILE NAME : X:\291880	0\200250.01\TECH\CAD\72810074\SHEETSPLAN\030201 MQ.D	NG		PLOT DATE :	10/19/2021 10:11 AM	PLOT BY :	JEFF BREU	PLOT NAME :

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		AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED))		CUMULATIVE VOL (CY)	
STATION	CUT	SALVAGED/UNUSABLE	FILL	CUT	SALVAGED/UNUSABLE	FILL	CUT	EXPANDED FILL	MASS ORDINATE
	COT	PAVEMENT MATERIAL	FILL		PAVEMENT MATERIAL		1.00	1.25	
				NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
49+94	0	0	0	0	0	0	0	0	0
50+25	0	0	5	0	0	3	0	4	-4
50+50	0	0	17	0	0	10	0	17	-16
50+75	5	0	6	2	0	11	3	30	-27
51+00	7	0	3	6	0	4	9	35	-27
51+25	2	0	7	4	0	5	13	41	-28
51+50	0	0	74	1	0	38	14	88	-74
51+75	7	0	5	3	0	37	17	134	-117
52+00	16	0	10	10	0	7	28	143	-115
52+25	20	0	12	17	0	10	44	156	-111
52+75	170	0	0	0	0	0	44	156	-111
53+00	12	0	14	84	0	6	129	164	-35
53+25	1	0	64	6	0	36	135	208	-74
53+50	0	0	172	0	0	109	135	345	-210
53+75	0	0	216	0	0	180	135	570	-434
54+00	0	0	136	0	0	163	135	773	-638
54+25	0	0	64	0	0	93	135	889	-754
54+50	0	0	30	0	0	43	135	943	-808
54+75	0	0	15	0	0	21	135	969	-834
54+93	0	0	0	0	0	5	135	975	-840
				135	0	780			

TEMP BYPASS RD REMOVAL

NOTES:

1 - Cut (Salvage/Unusable Pavement Material Included.)
 2 - Salvage/Unusable Pavement Material. (This does not show up in the cross sections.)
 3 - Fill (Does not include Unusable Pavement volume.)
 4 - The Mass Ordinate + of - quantities calculated. Plus quantities as excess of material. Minus a shortage of material.

No Marsh of EBS is anticipated.

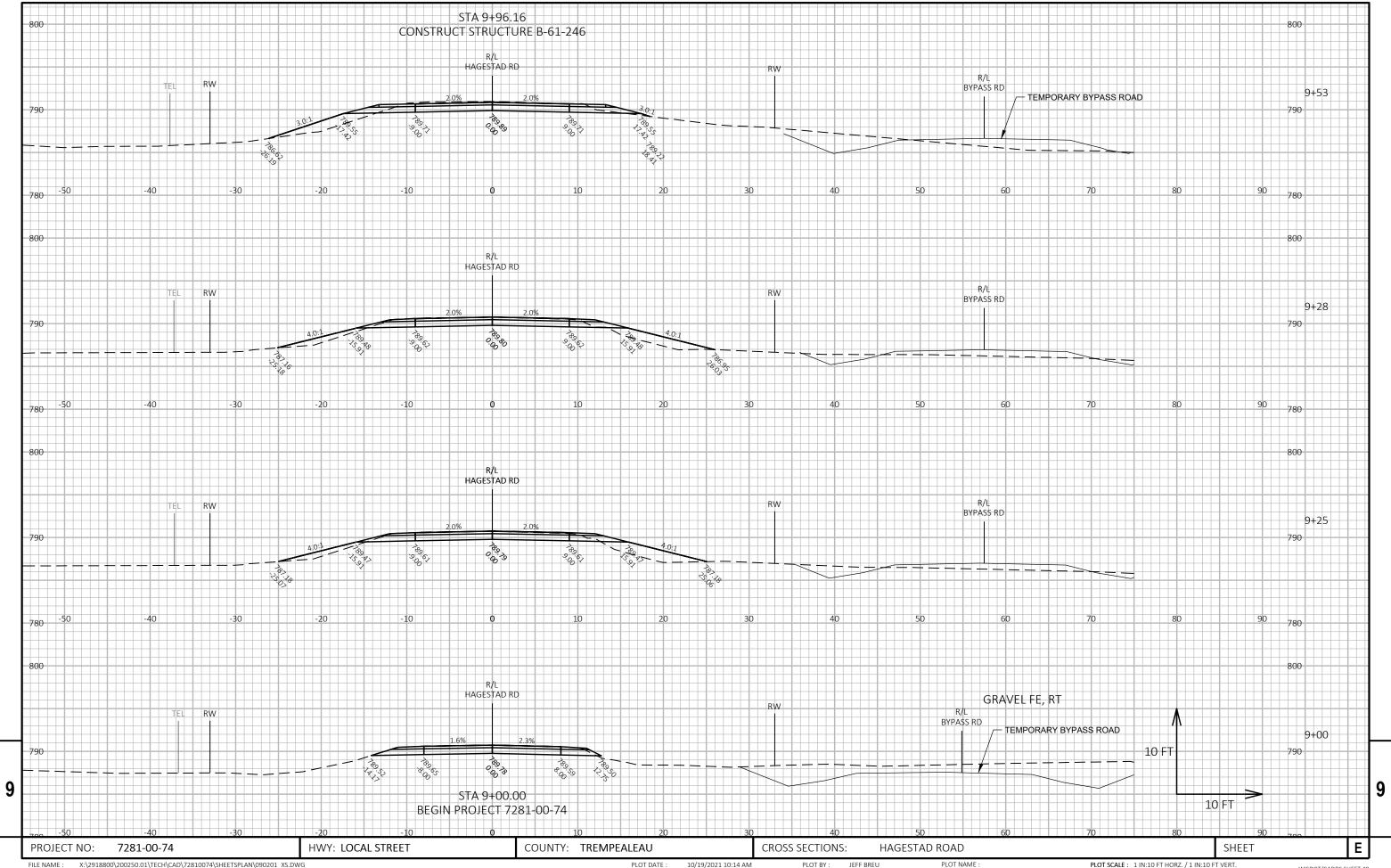
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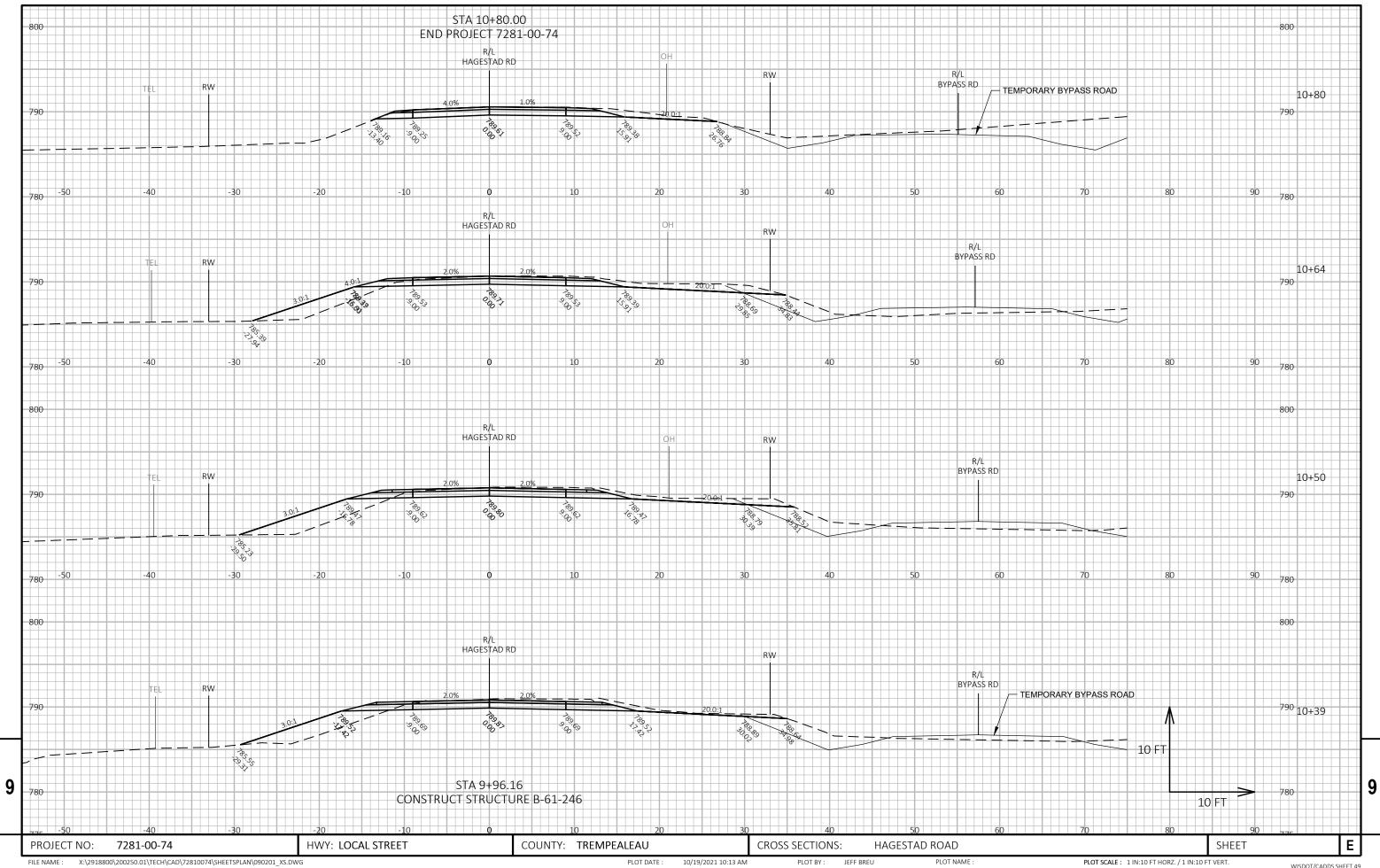


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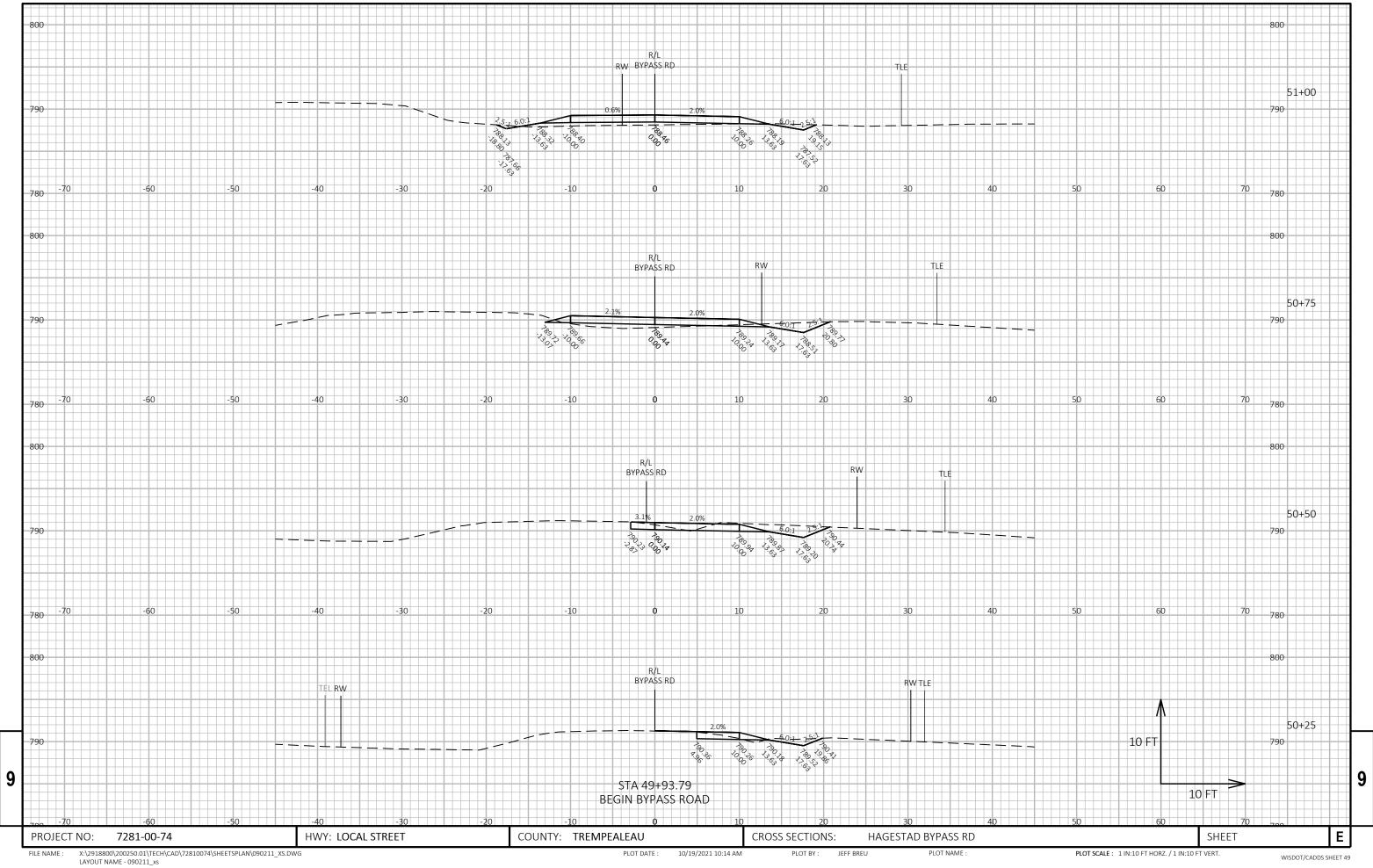
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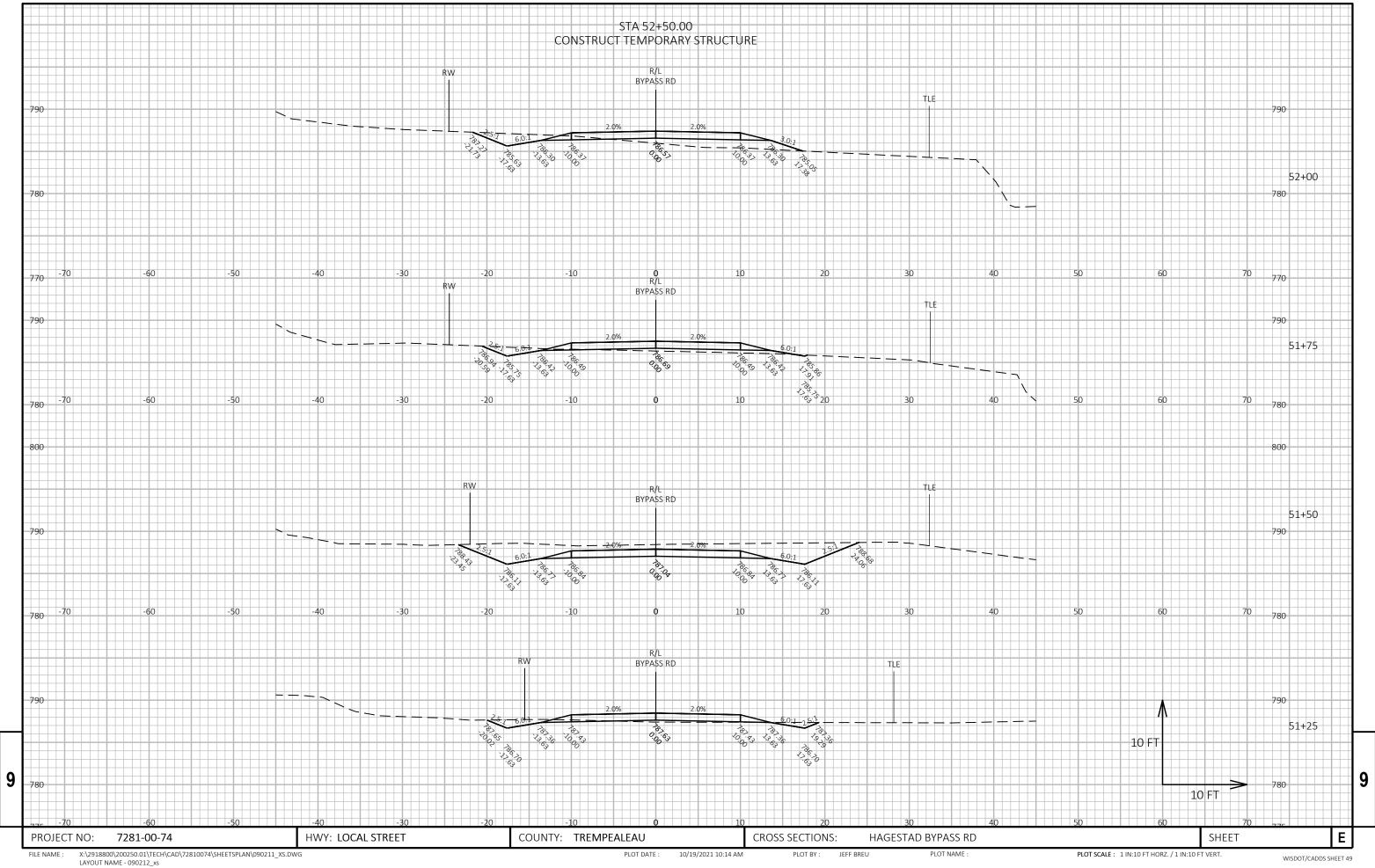
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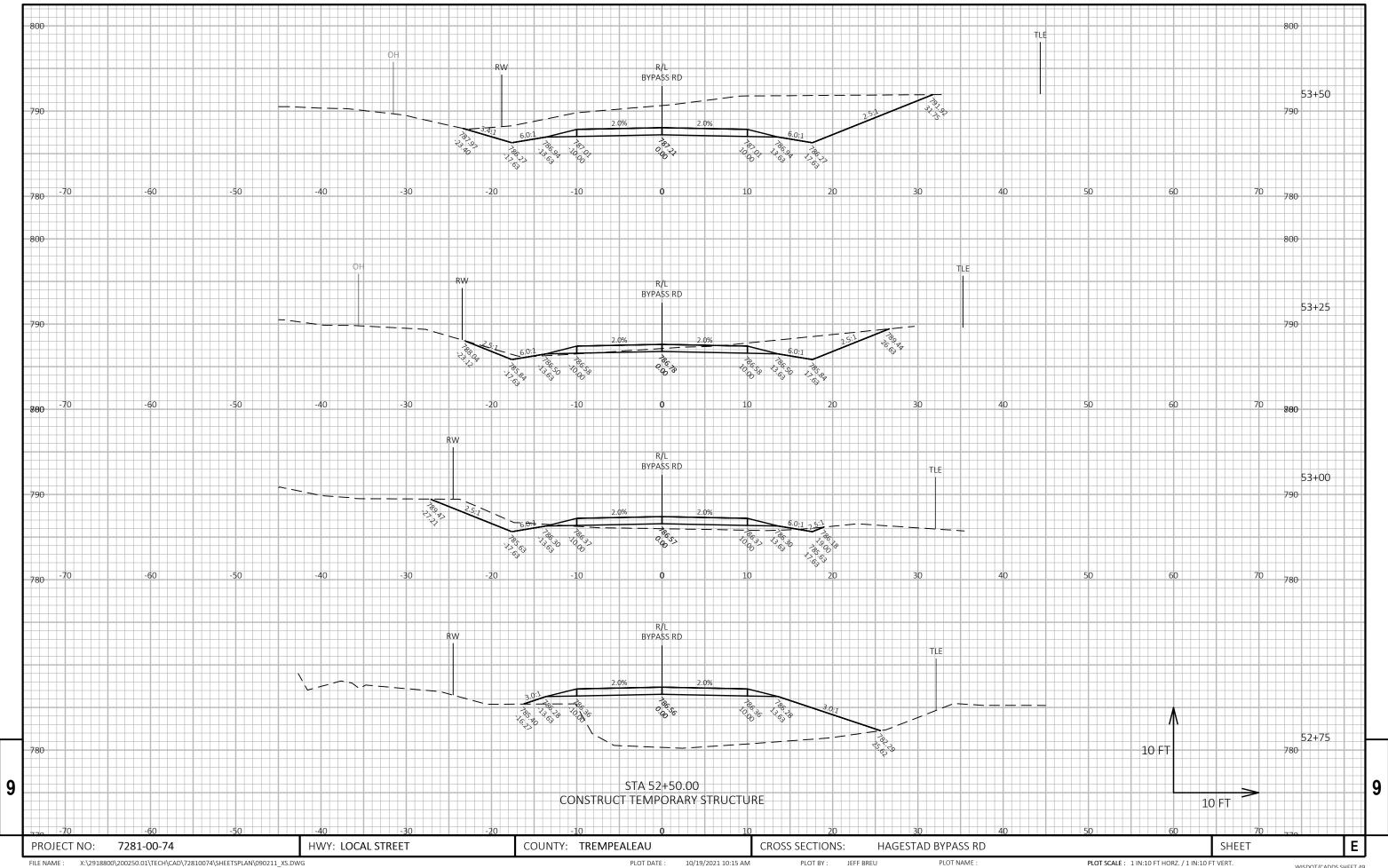


LAYOUT NAME - 090202_xs





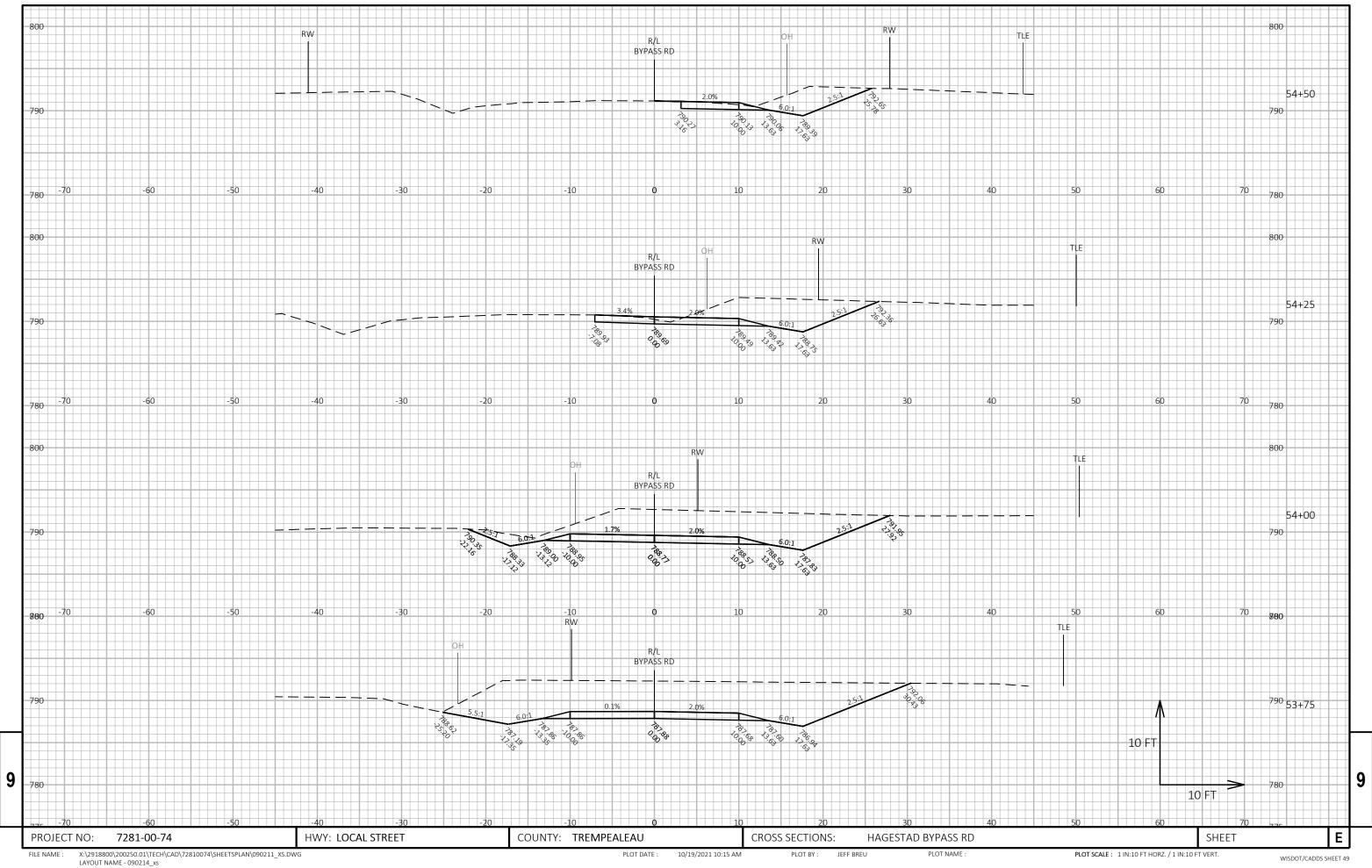
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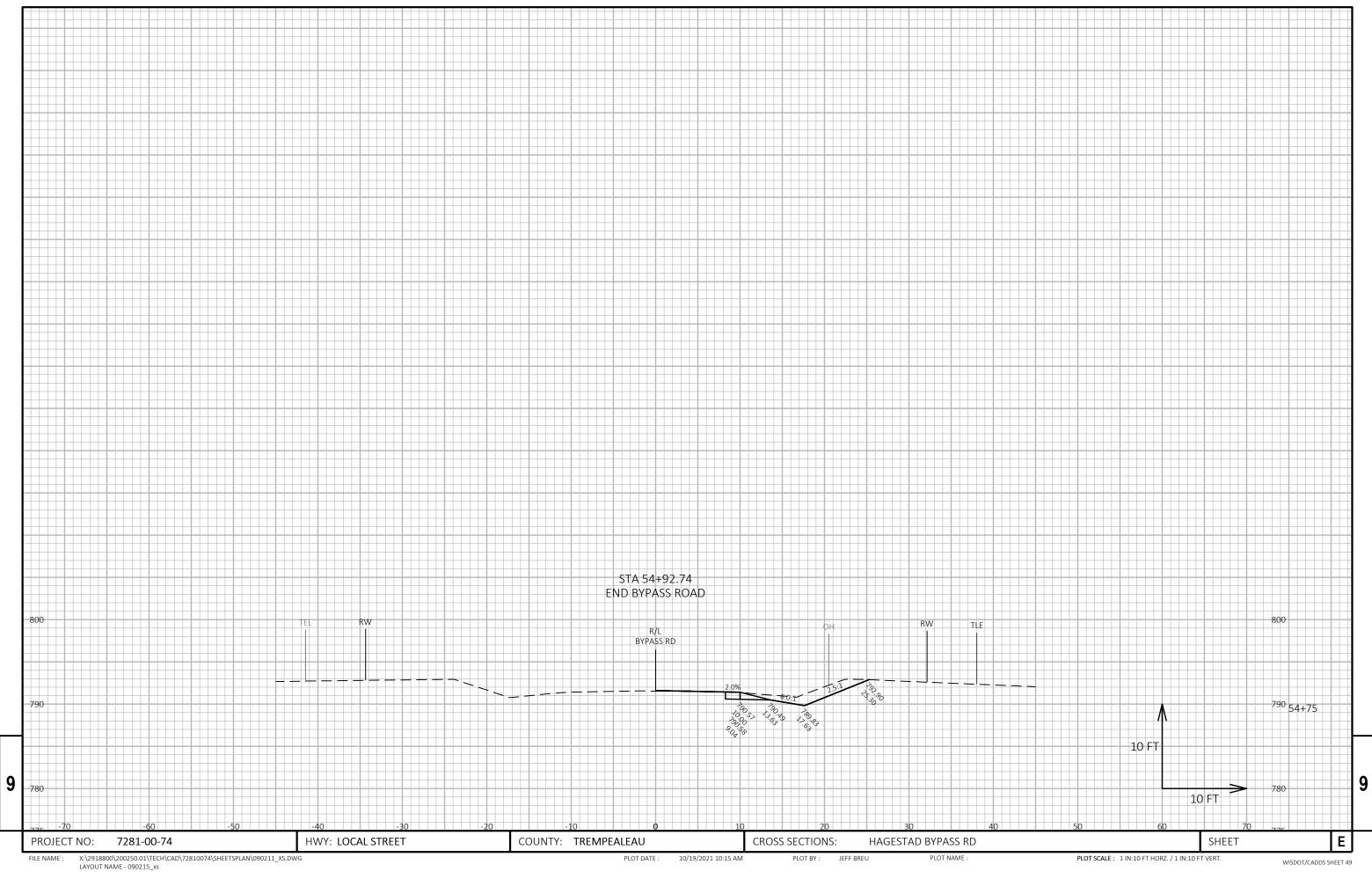
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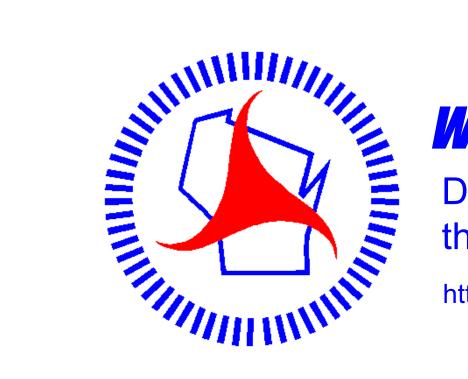
PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PLOT DATE : 10/19/2021 10:15 AM



^{10/19/2021 10:15} AM





Wisconsin Department of Transportation

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