EAU	MARCH 2024			FEDERAL PROJEC	Т
	ORDER OF SHEETS	STATE OF WISCONSIN	STATE PROJECT	PROJECT	CONTRACT
PROJEC WITH: N/A	Section No. 1 Title Section No. 2 Typical Sections and Details		7850-00-71	WISC 2024300	1
PROJECT WITH: N/A	Section No. 3 Estimate of Quantities	DEPARTMENT OF TRANSPORTATION			
Đ	Section No. 3 Miscellaneous Quantities Section No. 4 Right of Way Plat	PLAN OF PROPOSED IMPROVEMENT			
7	Section No. 5 Plan and Profile (INCLUDES EROSION CONTROL) Section No. 6 Standard Detail Drawings				
	Section No. 7 Sign Plates Section No. 8 Structure Plans	T YORK, ROMADKA AVENUE			
850-00-71	Section No. 9 Computer Earthwork Data Section No. 9 Cross Sections	MIDDLE BR ONEILL CREEK BRDG B100399			
Ö	TOTAL SHEETS = 46	LOC STR			
		CLARK COUNTY			
4	and the second se				
		STATE PROJECT NUMBER 7850-00-71			
		R-1-W END PRO	JECT		
		RD C HEINTOWN RD C STA 5+71	25		
		RD HEATH HEATH			
			1	ACCEPTED FOR	
		D STRUCTURE B-10-0185		TOWN OF YORK	
		EGIN PROJECT		10-19-23 Riman En	1
	A.A.D.T. (2024) = 220	STA 4+28.75		Date Rectary Gu	e of Official)
	D.H.V. = 57 X	= 377,995.4597 = 721,578.5987		ORIGINAL PLANS PREPAR	
COL	D.D. = 60/40 T. = 5% DESIGN SPEED = 40 MPH	T-25-N Υ T-25-N		AECOM	
JNTY:	ESALS = 30,000	BUC TREE IN TREE INTER INTEREE		MAN ISCONSIN	A HILL
\frown				UNCELL TO TO TO TO TO TO TO TO TO TO TO TO TO	VEER
P	CONVENTIONAL SYMBOLS PLAN PROFILE			WISCONSIL	E-
₽ P	CORPORATE LIMITS GRADE LINE			10/10/2023 Jui	famile
RK	PROPERTY LINE MARSH OR ROCK PR LOT LINE (To be noted as such	1000000000000000000000000000000000000		DATE: (Professional Engine	er Signature)
	LIMITED HIGHWAY EASEMENT L SPECIAL DITCH			STATE OF WISCONSI	N
	PROPOSED OR NEW R/W LINE GRADE ELEVATION	\mathbf{W} \mathbf{W} \mathbf{K} \mathbf{K} \mathbf{K} \mathbf{K} \mathbf{K} \mathbf{K}		DEPARTMENT OF TRANSPO	
	SLOPE INTERCEPT CULVERT (Profile Vie REFERENCE LINE <u>3007EB</u> UTILITIES	$\stackrel{\text{\tiny W}}{-} \stackrel{\text{\tiny C}}{-} \stackrel{\text{\tiny RD}}{-} $		PREPARED BY Surveyor AECOM	1
	ELECTRIC EXISTING CULVERT FIBER OPTIC			Designer AECOM Project Manager TYLER RONGS	
	PROPOSED CULVERT (Box or Pipe) GAS COMPLICITIES CULUDS SANITARY SEWER	— G — I ANOLIT		Regional Examiner TOU YANG Regional Supervisor TYLER RONGS	
	COMBUSTIBLE FLUIDS	SS LAYOUT T 0 1 MI HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONS SCALE			
	MARSH AREA (L) WATER UTILITY PEDESTAL	W NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE (Y COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID	RID	APPROVED FOR THE DEPARTMENT Tyler Rongstad DATE:	
	POWER POLE WOODED OR SHRUB AREA TELEPHONE POLE	ARE THE SAME AS GROUND DISTANCES. ف Ø		(Signature	E

FILE NAME : C:\ONEDRIVE\AECOM\60662621 - ROMADKA AVENUE - GENERAL\900_CAD_GIS\910_CAD\78500001\SHEETSPLAN\010101_TI.DWG

GENERAL NOTES:

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILTIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

RIGHT OF WAY INFORMATION, AS SHOWN ON THE PLANS, IS APPROXIMATE.

RADII, ELEVATIONS, AND DIMENSIONS ARE GIVEN AT THE PAVEMENT EDGES, UNLESS OTHERWISE NOTED IN THE PLANS.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE ARES WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, AND MULCHED.

ROMADKA AVENUE WILL BE CLOSED DURING CONSTRUCTION. USE THE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" TO CLOSE ROMAKDA AVENUE AT TREE ROAD AND CTH H.

SECTION 2 SHEETS

GENERAL NOTES PROJECT OVERVIEW TYPICAL SECTIONS

WDNR CONTACT

WISCONSIN DNR - CENTRAL REGION BRAD BETTHAUSER BLACK RIVER FALLS DNR SERVICE CENTER 910 HWY 54 E BLACK RIVER FALLS, WI 54615 T: (715) 213-9064 BRADLEY.BETTHAUSER@WISCONSIN.GOV

LOCAL CONTACT

TOWN OF YORK ROGER ERICKSON W4196 PINE CREEK ROAD NEILLSVILLE, WI 54456 T: (715) 797-5730 ROGER.ERICKSON.FOURSTAR@GMAIL.COM

RUNOFF COEFFICIENT TABLE

						HYDROLOGIC S	SOIL GROL	IP				
		Α			B			c			D	
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	E (PERC
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 & 0\
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15	.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:	•			•			•			•		
ASPHAL T						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS.	SHOULDE	RS				.4060						

TOTAL PROJECT AREA = 0.231 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.167 ACRES

PROJECT NO: 7850-00-71	HWY: LOC STR	COUNTY: CLARK		GENERAL NOTES		
FILE NAME : C:\ONEDRIVE\AECOM\60662621 - ROM	ADKA AVENUE - GENERAL\900 CAD GIS\910 CAD\78500001\SHEETSPLAN\020101-GN.DWG	PLOT DA	ATE : 10/11/2023 3:27 PM	PLOT BY :	LANCELLE, JESSICA	PLOT NAME :

FILE NAME : C:\ONEDRIVE\AECOM\60662621 - ROMADKA AVENUE - GENERAL\900 CAD GIS\910 CAD\78500001\SHEETSPLAN\020101-GN.DWG LAYOUT NAME - Plan 1 IN 100 FT

PLOT DATE : 10/11/2023 3:27 PM

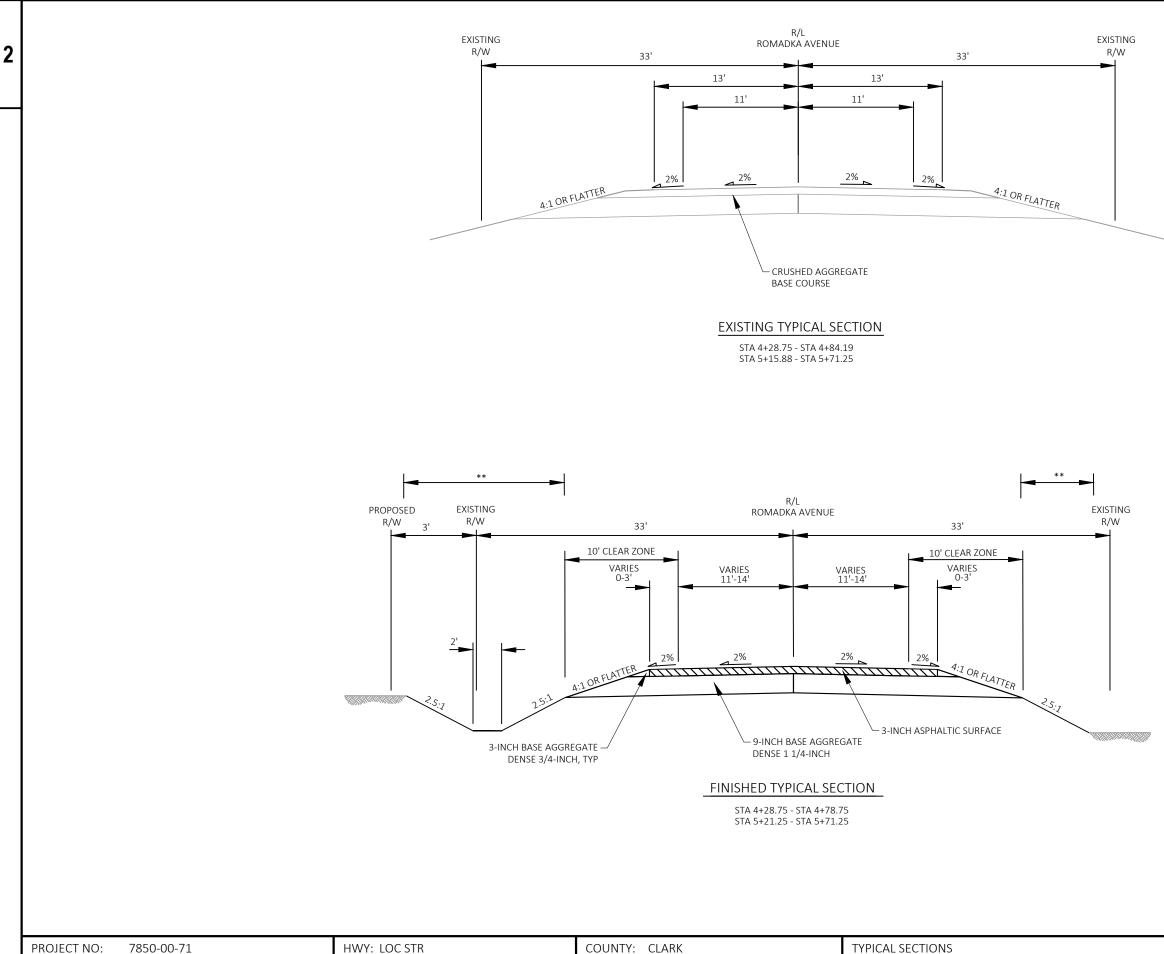
UTILITIES

TDS TELECOM - COMMUNICATIONS JEFF OLSON OSPE-NETWORK SPECIALIST II T: (608) 845-2219 C: (608) 444-6208 JEFFREY.OLSON@TDSTELECOM.COM

XCEL ENERGY - ELECTRIC CORISSA SEELY 1414 W. HAMILTON AVE. P.O. BOX 8 EAU CLAIRE, WI 54702-0008 T: (715) 737-4097 CORISSA.E.SEELY@XCELENERGY.COM



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FILE NAME : C:\ONEDRIVE\AECOM\60662621 - ROMADKA AVENUE - GENERAL\900_CAD_GIS\910_CAD\78500001\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - 01-10ft PLOT DATE : 10/11/2023 3:27 PM

PLOT BY : LANCELLE, JESSICA

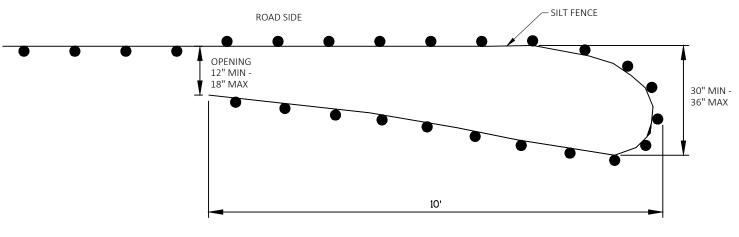
PLOT NAME :

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**TOPSOIL, FERTILIZER TYPE B, EROSION MAT URBAN CLASS I TYPE B, SEED NO. 20 FOR DITCHES AND SIDE SLOPES OR SEED NO. 60 FOR WET AREAS, AS NEEDED.

SHEET

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PLAN VIEW

GENERAL NOTES: SILT FENCE POSTS FOR THE TURN-AROUND FENCING SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND. AND TRENCHED IN ACCORDING TO SILT FENCE REQUIREMENTS.

SEE PLANS FOR SILT FENCE LOCATIONS. INSTALL TURN-AROUND AT END OF SHOWN FENCING.

SEE PROJECT SPECIFICATIONS FOR INSTALLATION RESTRICTIONS.

ROADSIDE OFFSETS DEPENDENT ON LOCATION.

TEMPORARY SMALL ANIMAL TURN-AROUND FENCING

APPROXIMATE STATION OR FIELD FIT WITH ENGINEER'S APPROVAL STATION 4+60 LT STATION 4+72 RT STATION 5+26 RT STATION 5+28 LT

PROJECT NO: 7850-00-71	HWY: LOC STR	COUNTY: CLARK			CONSTRUCTION	DETAILS	
FILE NAME : C:\ONEDRIVE\AECOM\60662621 - ROMADKA AVENUE - GENERAL\900_CAD	GIS\910 CAD\78500001\SHEETSPLAN\021001-CD.DWG		PLOT DATE :	10/11/2023 3:27 PM	PLOT BY :	LANCELLE, JESSICA	PLOT NAME :

FILE NAME : C:\ONEDRIVE\AECOM\60662621 - ROMADKA AVENUE - GENERAL\900_CAD_GIS\910_CAD\78500001\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 01

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Estimate Of Quantities

					7850-00-71	
ine	ltem	Item Description	Unit	Total	Qty	
002	201.0205	Grubbing	STA	2.000	2.000	
004	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-10-185	EACH	1.000	1.000	
0006	205.0100	Excavation Common	CY	186.000	186.000	
8000	206.1001	Excavation for Structures Bridges (structure) 01. B-10-399	EACH	1.000	1.000	
010	210.1500	Backfill Structure Type A	TON	360.000	360.000	
0012	213.0100	Finishing Roadway (project) 01. 7850-00-71	EACH	1.000	1.000	
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	3.000	3.000	
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	209.000	209.000	
0018	465.0105	Asphaltic Surface	TON	46.000	46.000	
0020	502.0100	Concrete Masonry Bridges	CY	168.000	168.000	
0022	502.3200	Protective Surface Treatment	SY	230.000	230.000	
0024	505.0400	Bar Steel Reinforcement HS Structures	LB	4,400.000	4,400.000	
0026	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	23,210.000	23,210.000	
0028	513.4061	Railing Tubular Type M	LF	97.000	97.000	
0030	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000	
0032	550.0020	Pre-Boring Rock or Consolidated Materials	LF	105.000	105.000	
0034	550.0500	Pile Points	EACH	7.000	7.000	
0036	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	315.000	315.000	
0038	606.0300	Riprap Heavy	CY	110.000	110.000	
0040	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	140.000	140.000	
0042	618.0100	Maintenance and Repair of Haul Roads (project) 01. 7850-00-71	EACH	1.000	1.000	
0044	619.1000	Mobilization	EACH	1.000	1.000	
0046	624.0100	Water	MGAL	2.100	2.100	
0048	625.0100	Topsoil	SY	307.000	307.000	
0050	628.1504	Silt Fence	LF	230.000	230.000	
0052	628.1520	Silt Fence Maintenance	LF	230.000	230.000	
0054	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0056	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0058	628.2008	Erosion Mat Urban Class I Type B	SY	307.000	307.000	
0060	628.6005	Turbidity Barriers	SY	72.000	72.000	
0062	628.7504	Temporary Ditch Checks	LF	40.000	40.000	
0064	629.0210	Fertilizer Type B	CWT	0.500	0.500	
0066	630.0120	Seeding Mixture No. 20	LB	9.000	9.000	
0068	630.0160	Seeding Mixture No. 60	LB	2.000	2.000	
0070	630.0500	Seed Water	MGAL	14.000	14.000	
0072	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	4.000	4.000	
0074	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0076	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0078	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0800	642.5001	Field Office Type B	EACH	1.000	1.000	
0082	643.0420	Traffic Control Barricades Type III	DAY	1,080.000	1,080.000	
0084	643.0705	Traffic Control Warning Lights Type A	DAY	1,680.000	1,680.000	
0086	643.0900	Traffic Control Signs	DAY	840.000	840.000	
8800	643.5000	Traffic Control	EACH	1.000	1.000	
0090	645.0111	Geotextile Type DF Schedule A	SY	110.000	110.000	
0092	645.0120	Geotextile Type HR	SY	170.000	170.000	
0094	650.4500	Construction Staking Subgrade	LF	100.000	100.000	
0096	650.5000	Construction Staking Base	LF	100.000	100.000	
0098	650.6501	Construction Staking Structure Layout (structure) 01. B-10-399	EACH	1.000	1.000	
0100	650.9911	Construction Staking Supplemental Control (project) 01. 7850-00-71	EACH	1.000	1.000	

01/16/2024 11:20:26

Page 1

			Estimate Of G	auntities
				7850-00-71
Line Item	Item Description	Unit	Total	Qty
0102 650.9920	Construction Staking Slope Stakes	LF	100.000	100.000
0104 715.0502	Incentive Strength Concrete Structures	DOL	1,380.000	1,380.000
0106 999.2005.	S Maintaining Bird Deterrent System (station) 01. 5+00	EACH	1.000	1.000
0108 ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0110 ASP.1T00	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0112 SPV.0090	Special 01. Flashing Stainless Steel	LF	83.000	83.000

01/16/2024 11:20:26

Page 2

BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	624.0100 WATER MGAL
4+29 - 4+79	ROMADKA AVE BASE	1	91	
5+21 - 5+71	ROMADKA AVE BASE	1	91	
4+29 - 4+79	ROMADKA AVE SHLDR		4	
5+21 - 5+71	ROMADKA AVE SHLDR		4	
	UNDISTRIBUTED	1	19	2.1
PROJECT TOTAL		3	209	2.1

EARTHWORK

GRUBBING

STATION - STATION

4+29 - 5+71

PROJECT TOTAL

			05.0100 DN EXCAVATION (1)	SALVAGED/UNUSABLE	AVAILABLE		EXPANDED FILL (13)			
DIVISION	FROM/TO STATION	CUT (2)	EBS EXCAVATION (3)	PAVEMENT MATERIAL (4)	MATERIAL (5)	UNEXPANDED FILL	FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE	COMMENT
ROMADKA AVE	4+28.75/5+70.00	186	0	0	186	74	93	94	94	
	TOTAL COMMON EXC		186	0	186	74	93	94	94	

NOTES:

201.0205 GRUBBING

STA

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2

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

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

(3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL. (4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

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

(13) EXPANDED FILL FACTOR = 1.25

DEPENDING ON SELEC EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR

(EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED EBS) * FILL FACTOR

(EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH) * FILL FACTOR

(EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK) * FILL FACTOR

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

 PROJECT NUMBER: 7850-00-71
 HWY: LOC STR
 COUNTY: CLARK
 MISCELLANEOUS QUANTITIES

3

PLOTTED DATE: 10/26/2023 3:57 PM

RY 0010 UNLESS O	THERWISE SPECIFIED).
6	SHEET NO:	Е

4+29 - 4+79 5+21 - 5+71	LOCATION Romadka ave. Romadka ave.	TON 23 23	_					LOCATION PROJECT	AT. 0030) 618.0100 MAINTENANCE AND REPAIR OF HAUL ROAD 7850-00-71 EACH 1	
PROJECT TOTAL		46						PROJECT TOTAL	1	
	<u>LANDSCA</u>	<u>APING</u>	625.0100 TOPSOIL			630.0120 SEEDING MIXTURE NO. 20	630.0160 SEEDING MIXTURE NO. 60	630.0500 SEED WATER		
			CATION SY	SY	С₩Т	LB	LB	MGAL		
	4+29 5+22	- 4+78 - 5+71	140 167	140 167	0.2 0.3	4 5	1	6.0 8.0		
	PROJECT T	TOTAL	307	307	0.5	9	2	14.0		
 EROSION CONTROL										
STATION - STATION OFFSE	SILT FENCE MAI	628.1520 628.6 SILT TURBI FENCE BARRI INTENANCE LF SY	DITY TEMPORARY ERS DITCH CHECKS				EROSION CO	ONTROL MOBILIZAT	FION 628.1905 MOBILIZATIONS EROSION	628.1910 MOBILIZATIONS EMERGENCY
4+29 - 4+78	120	120 42							CONTROL	EROSION CONTROL
5+22 - 5+71 UNDISTRIBUTED	110	110 30						CATION ECT LIMITS	EACH 3	EACH 3
PROJECT TOTAL	230	230 72					PROJECT TOTA		3	3

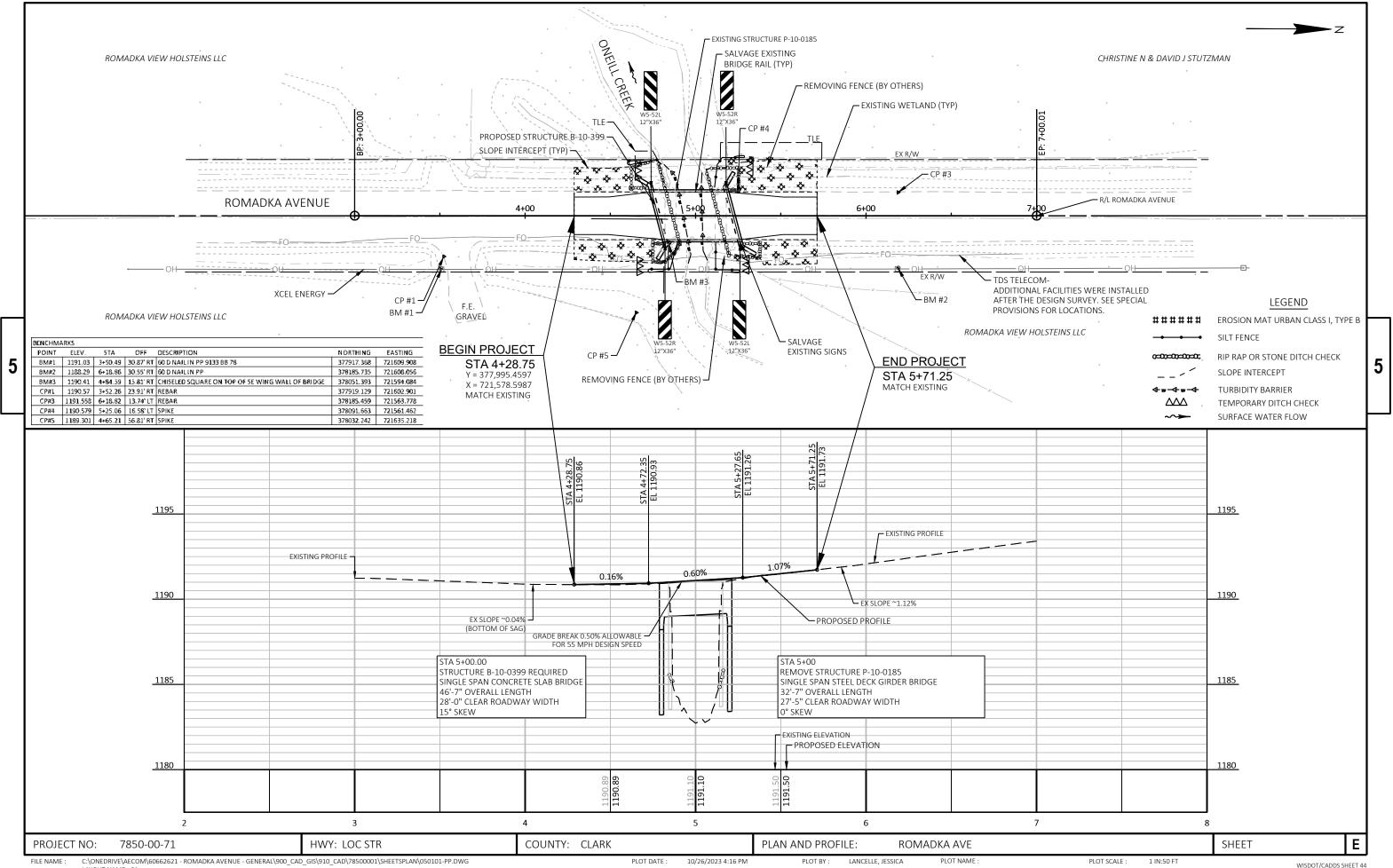
				SILT FENCE	SILT FENCE	TURBIDITY BARRIERS	TEMPORARY DITCH	
					MAINTENANCE		CHECKS	
STATIO	ON -	STATION	OFFSET	LF	LF	SY	LF	
4+29	9 -	4+78		120	120	42	20	
5+22	2 -	5+71		110	110	30	20	LOCATION
	UNDISTRIE	BUTED						PROJECT LIMITS
PROJE	CT TOTAL			230	230	72	40	PROJECT TOTAL
								ALL ITEMS ARE CATEGORY
ROJECT NUMBER: 7850)-00-71				HWY: LOC S	TR	COUNT	Y: CLARK MISCELLANEOUS QUANTITIES

PROJECT NUMBER: 7850-00-71 FILE NAME: C:\OneDrive\AECOM\60662621 - Romadka Avenue -General\900_CAD_GIS\910_CAD\78500001\SheetsPlan\030201_MQ.pptx

ORIGINATOR: JESSICA LANCELLE ORIG. DATE: AUGUST 1, 2023

PLOTTED DATE: 10/26/2023 3:57 PM

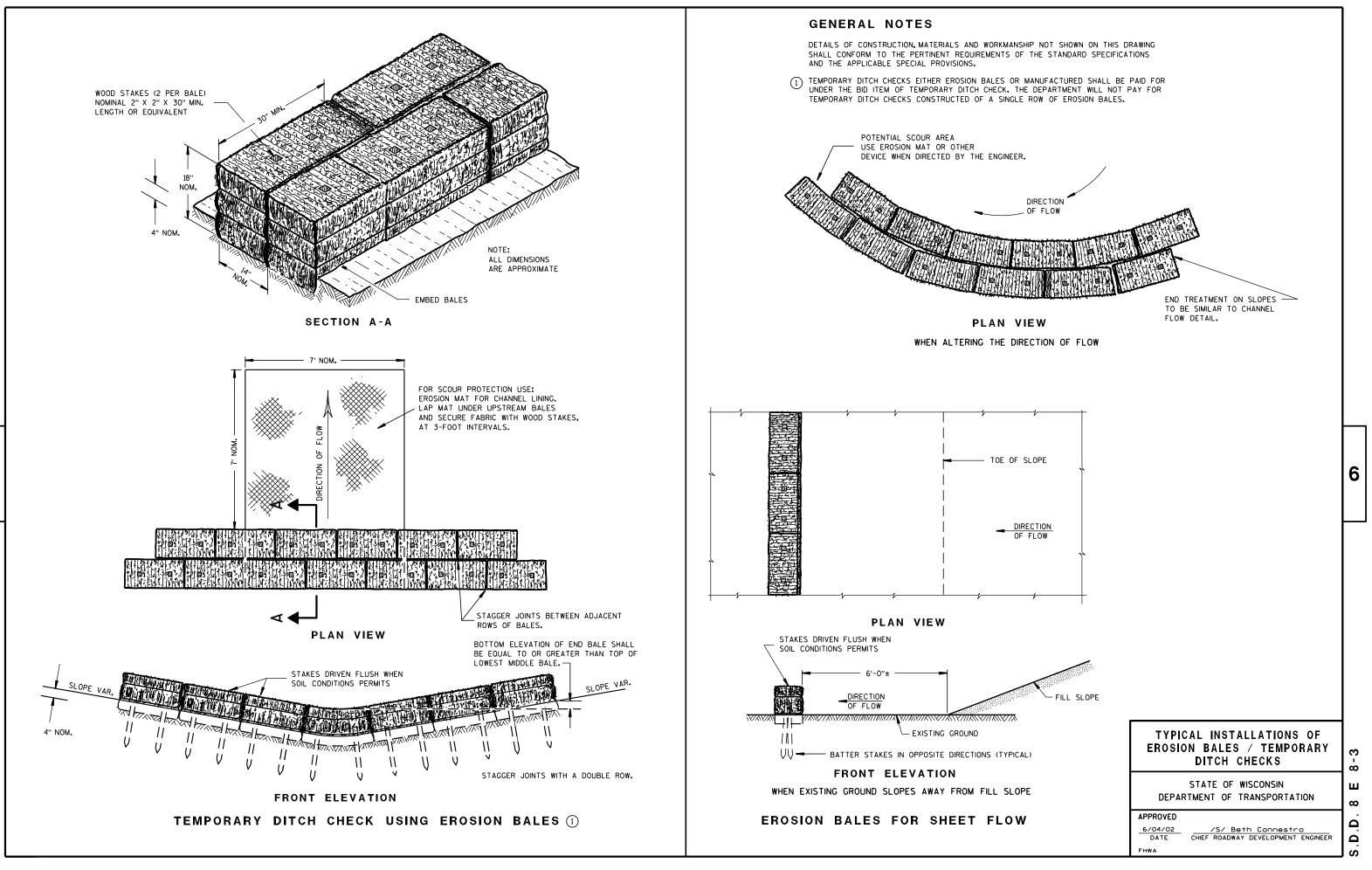
STATION NE SE NW SW	SIGN CODE W5-52L	SIGN	SIZE	2x2-INCH X 14-FT		SIGNS TYPE II	SMALL SIGN SUPPORTS			CONSTRUCTION STAKING SUBGRADE	CONSTRUCTION STAKING BASE	CONSTRUCTION STAKING STRUCTURE LAYOUT	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL	CONSTRUCTIO STAKING SLOPE STAKES
SE NW	W5-52L	MESSAGE	IN X		SF	EACH	EACH					B-10-399	7850-00-71	
NW		BRIDGE HASH MARKS		36 1	3.00	1	1	STATION	ATION	LF	LF	EACH	EACH	LF
	W5-52R W5-52R	BRIDGE HASH MARKS BRIDGE HASH MARKS	12 12	36 1 36 1	3.00 3.00	1	1	4+29 5+22	1+78 5+71	50 50	50 50	1		50 50
	W5-52L	BRIDGE HASH MARKS		36 1	3.00	1	1	PROJECT TO		100	100	1	1	100
ROJECT TOTAL				4	12.00	4	4					**CATEGORY 0020**		
ROM	FIC CONTRO	DAYS IN SERVICE	18 1	TROL TRAF ES WAR	NING LIGHTS TYPE A D. DAY	14 8	FROL PAY 340			BIRD DET LOCATIO P-10-18 PROJECT 1	MAIN Bird D System DN I 35	<u>A</u> 9.2005.S NTAINING DETERRENT STATION 5+00 EACH 1		
TROJEC			1.		1,000	0					CATEGORY			



PLOT NAME :

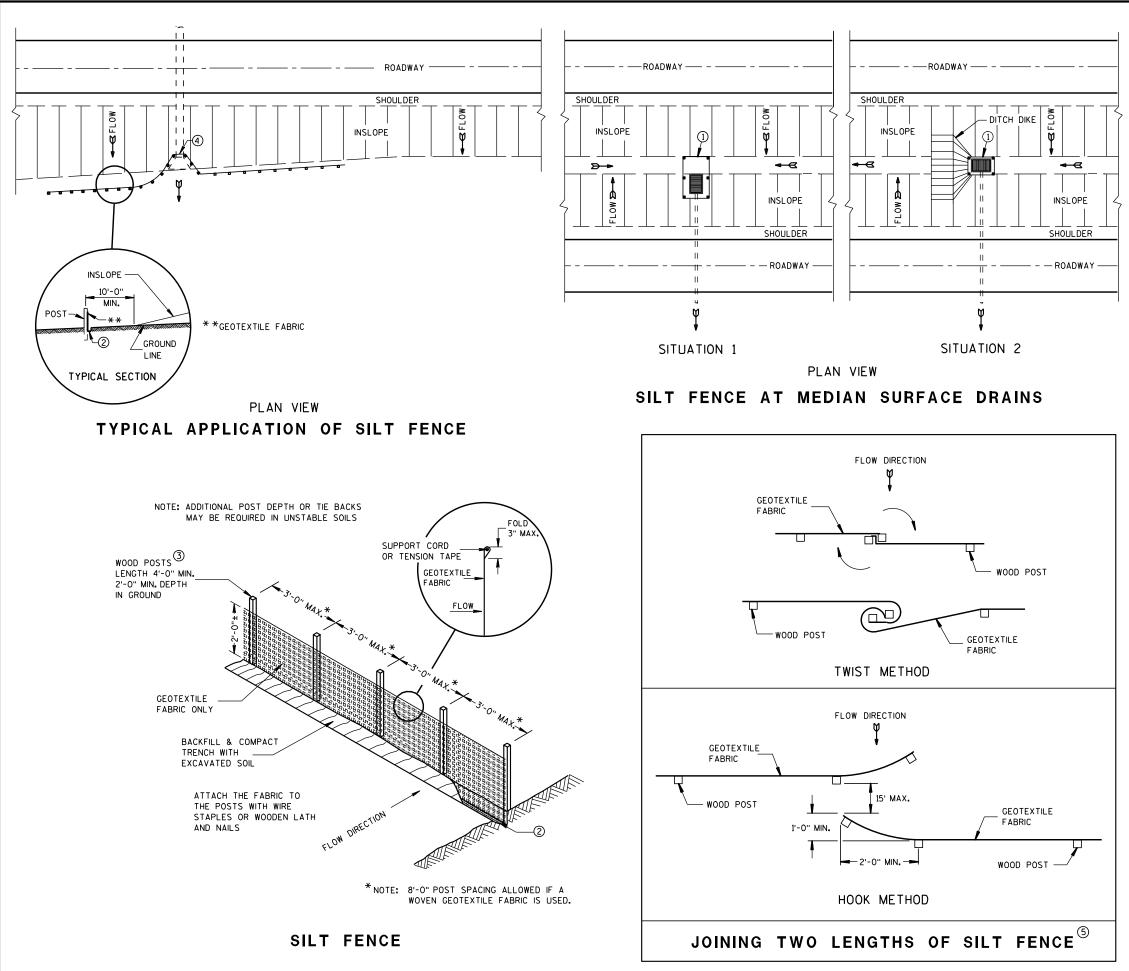
Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



S,D,D, 8 E 8

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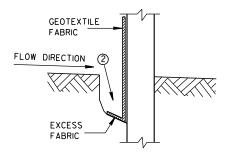
S.D.D. 8 E 9

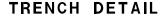
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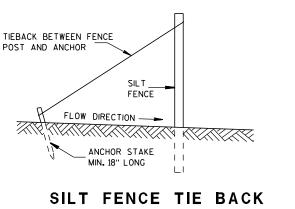
GENERAL NOTES

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

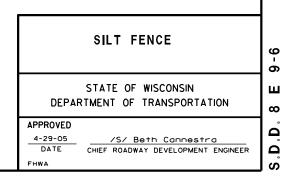
- \bigcirc horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3)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

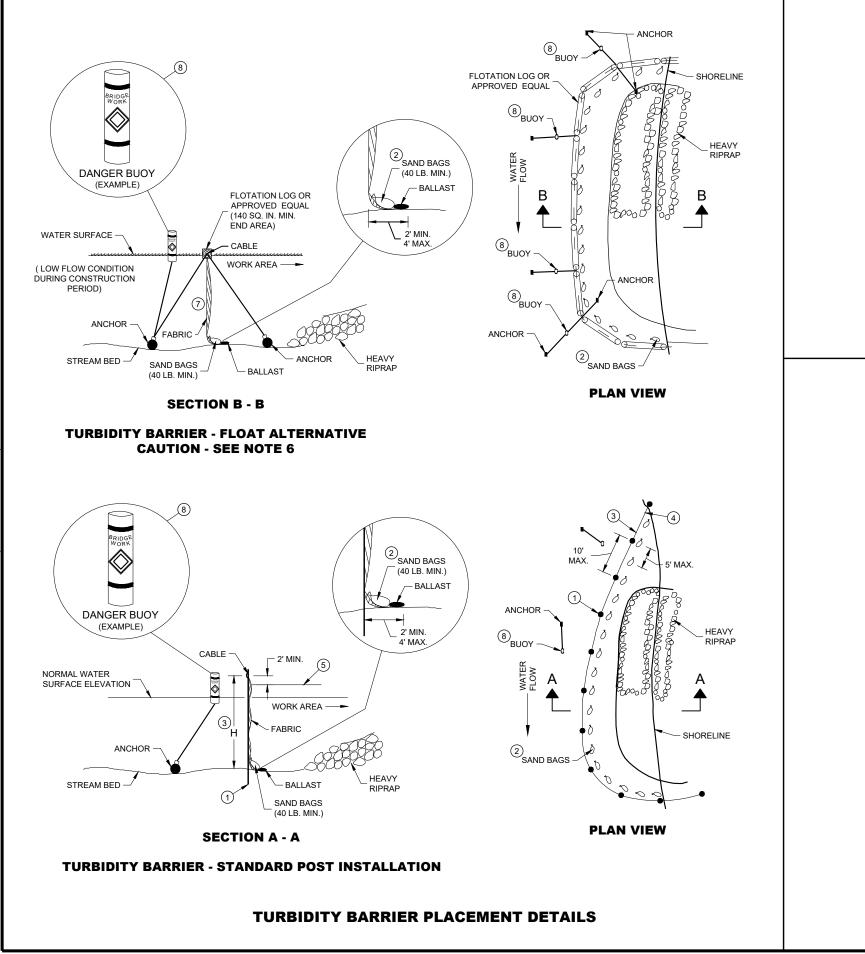




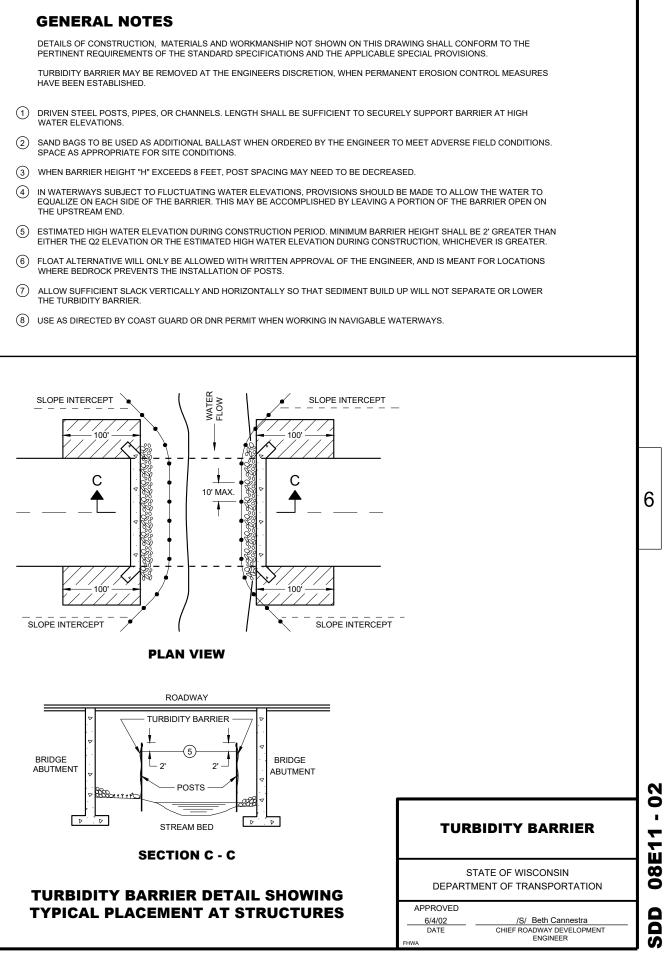


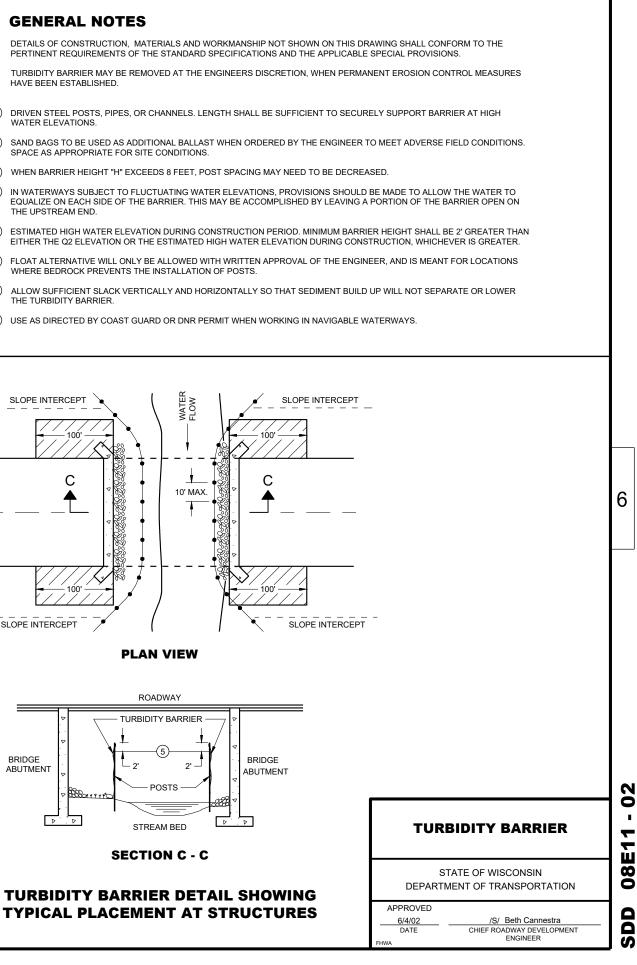
(WHEN REQUIRED BY THE ENGINEER)



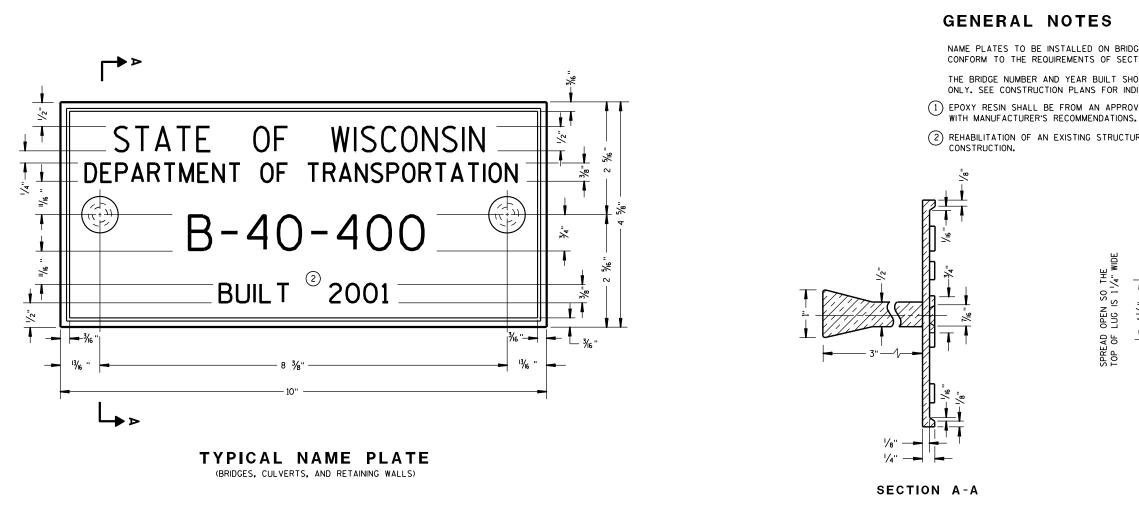


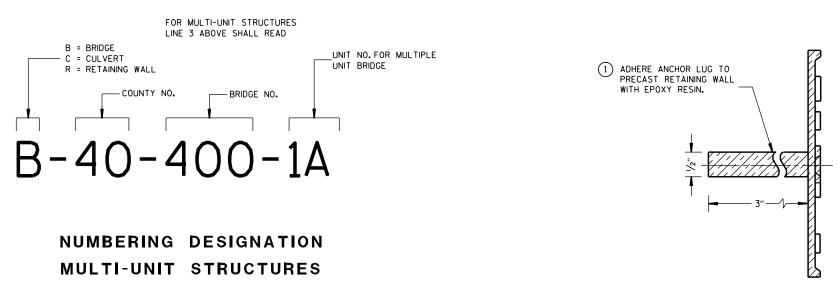
- WATER ELEVATIONS.





SDD 08E -02



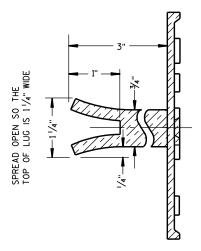


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

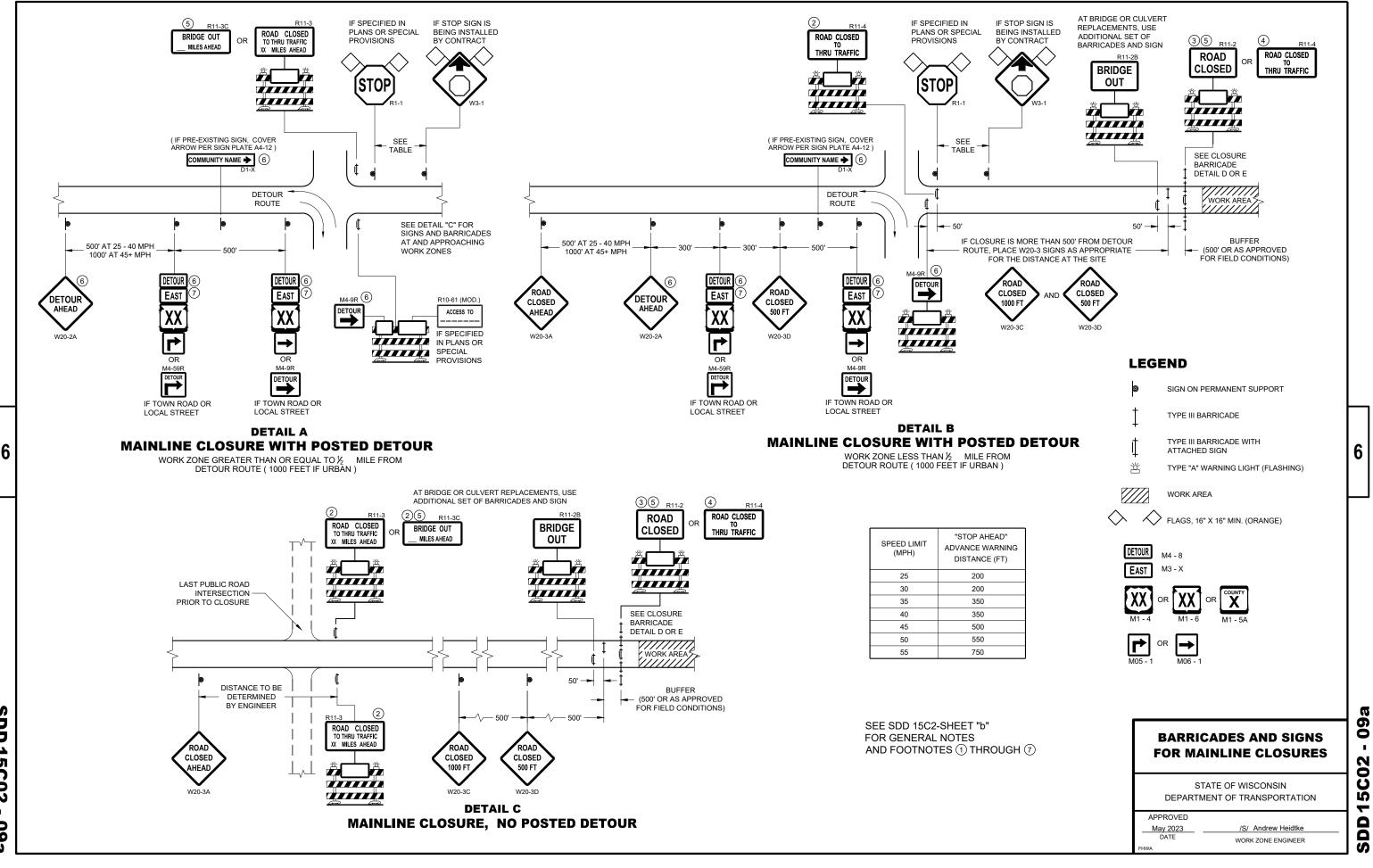
APPROVED

3/26/10 DATE FHWA

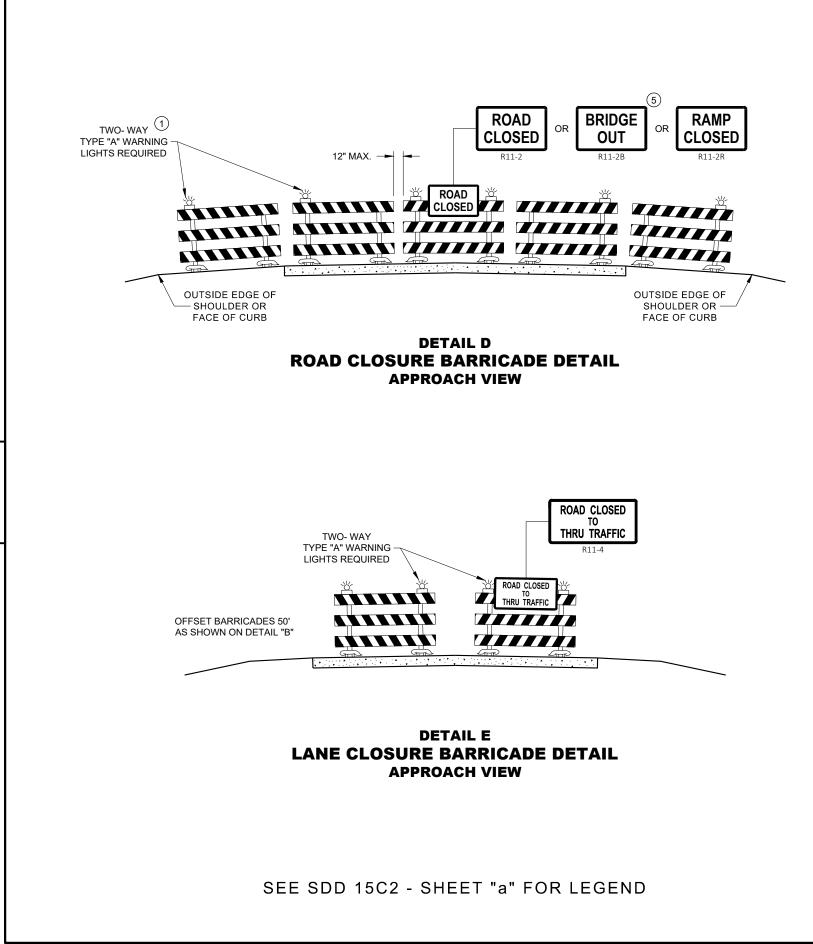
/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 3-10 ∢ 2 Δ

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GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

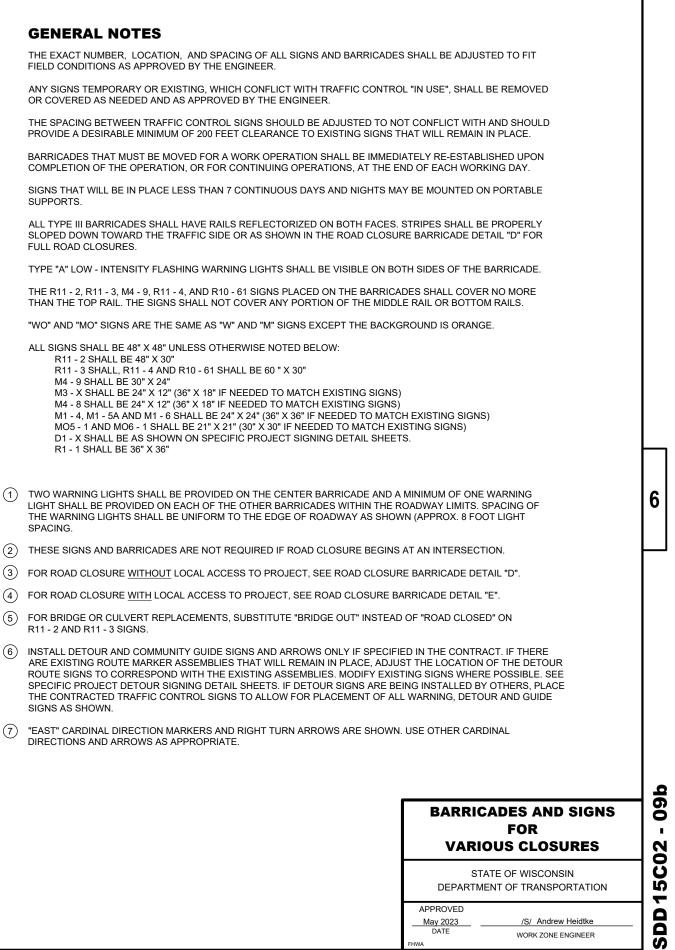
FULL ROAD CLOSURES.

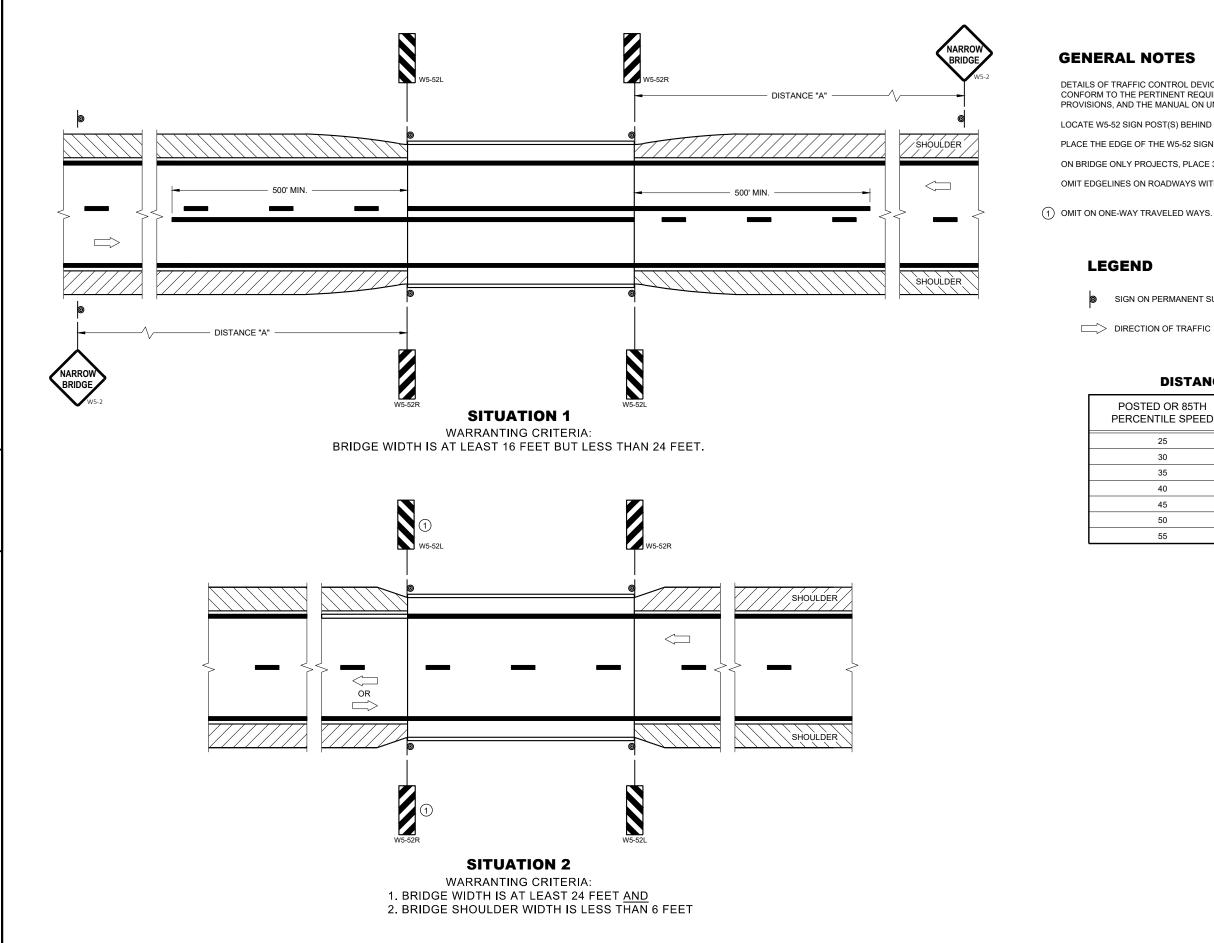
THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"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.
- (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.





SDD

15C06-12

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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

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

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SIGNING AND MARKING FOR TWO LANE BRIDGES

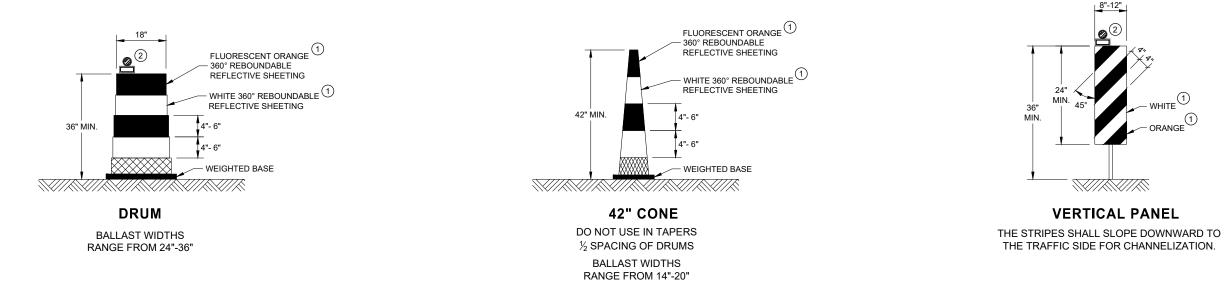
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

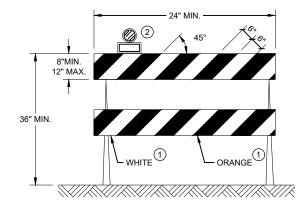
APPROVED May 2023 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

GENERAL NOTES

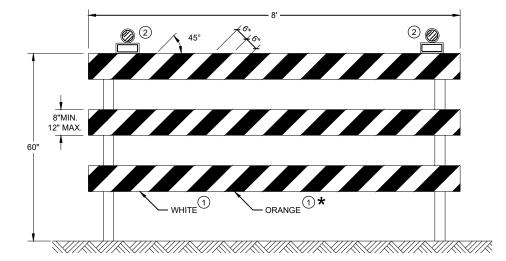
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





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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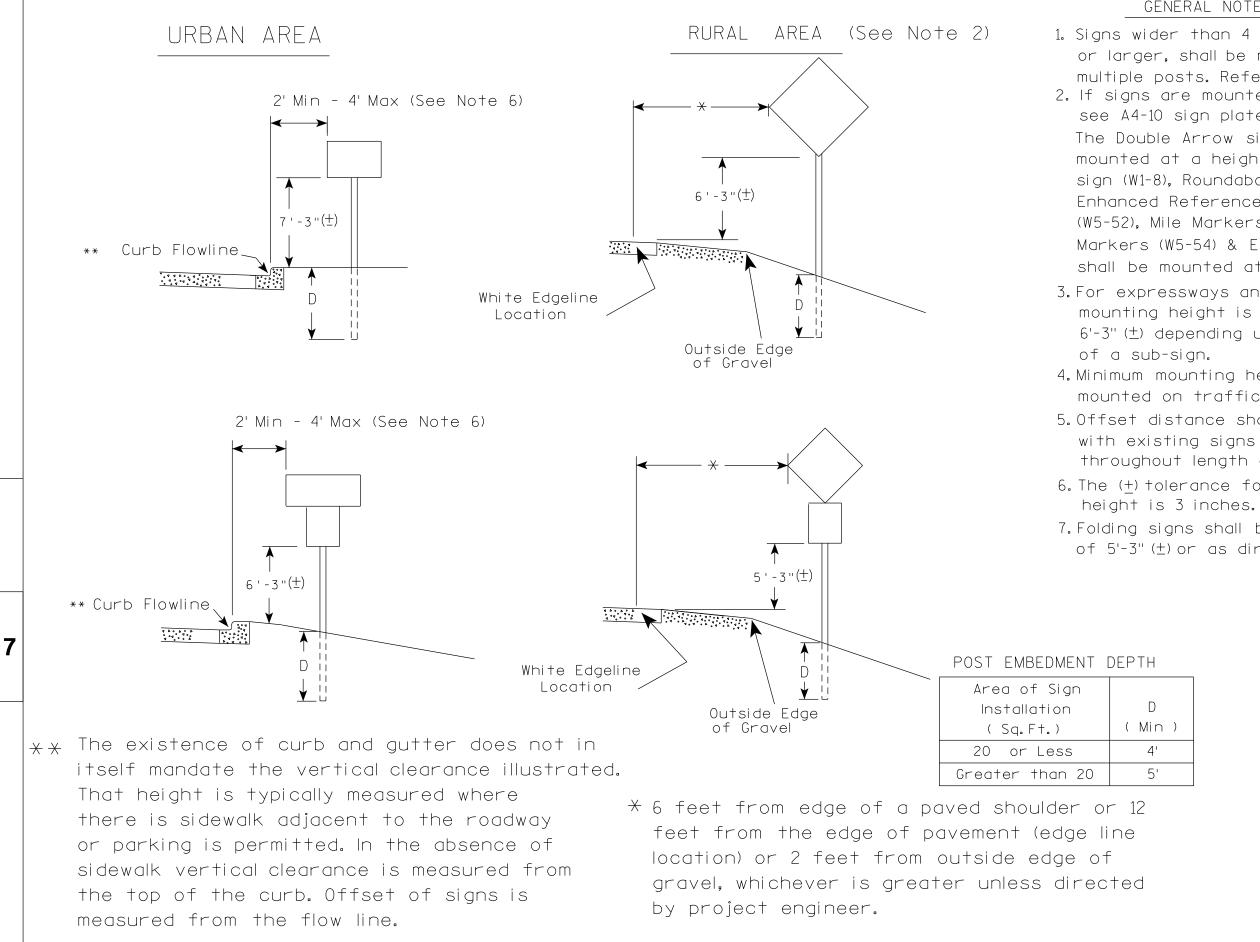
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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

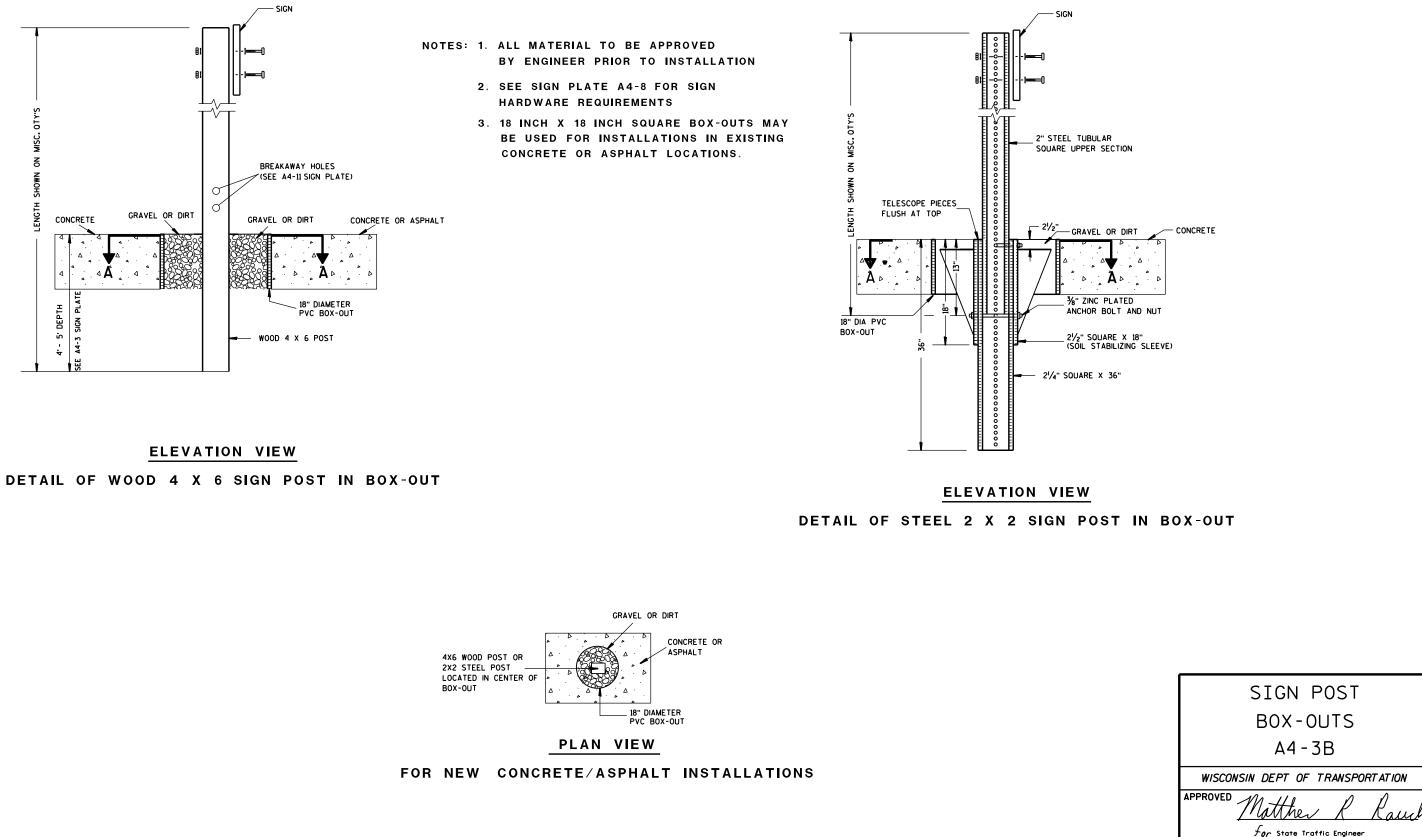


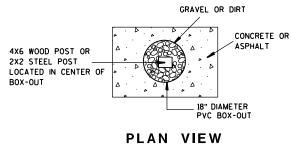
PROJECT NO:	HWY:	COUNTY:			
			DI AT DITE : 47 HUN 0000 4 0	DI OT DY IN IO	DLOT NAME -

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





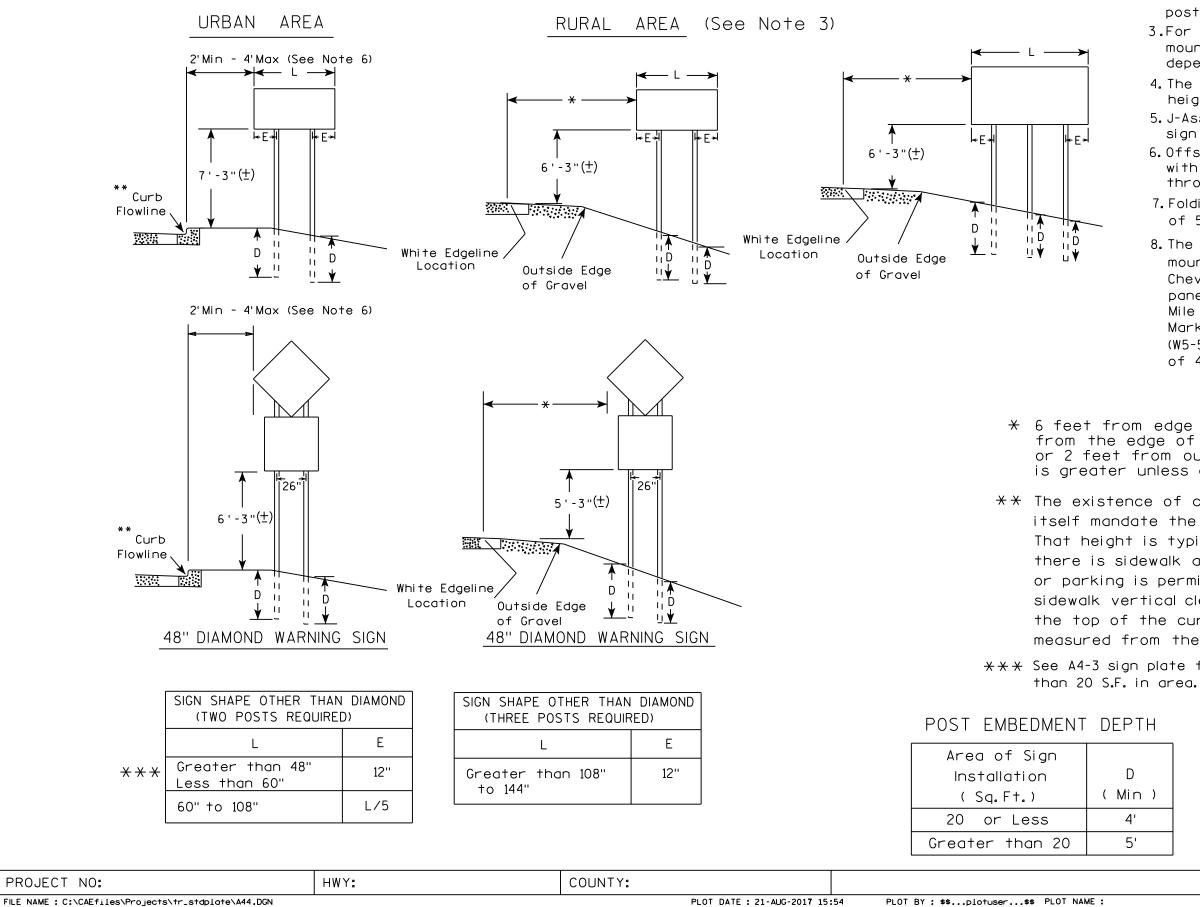
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

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.

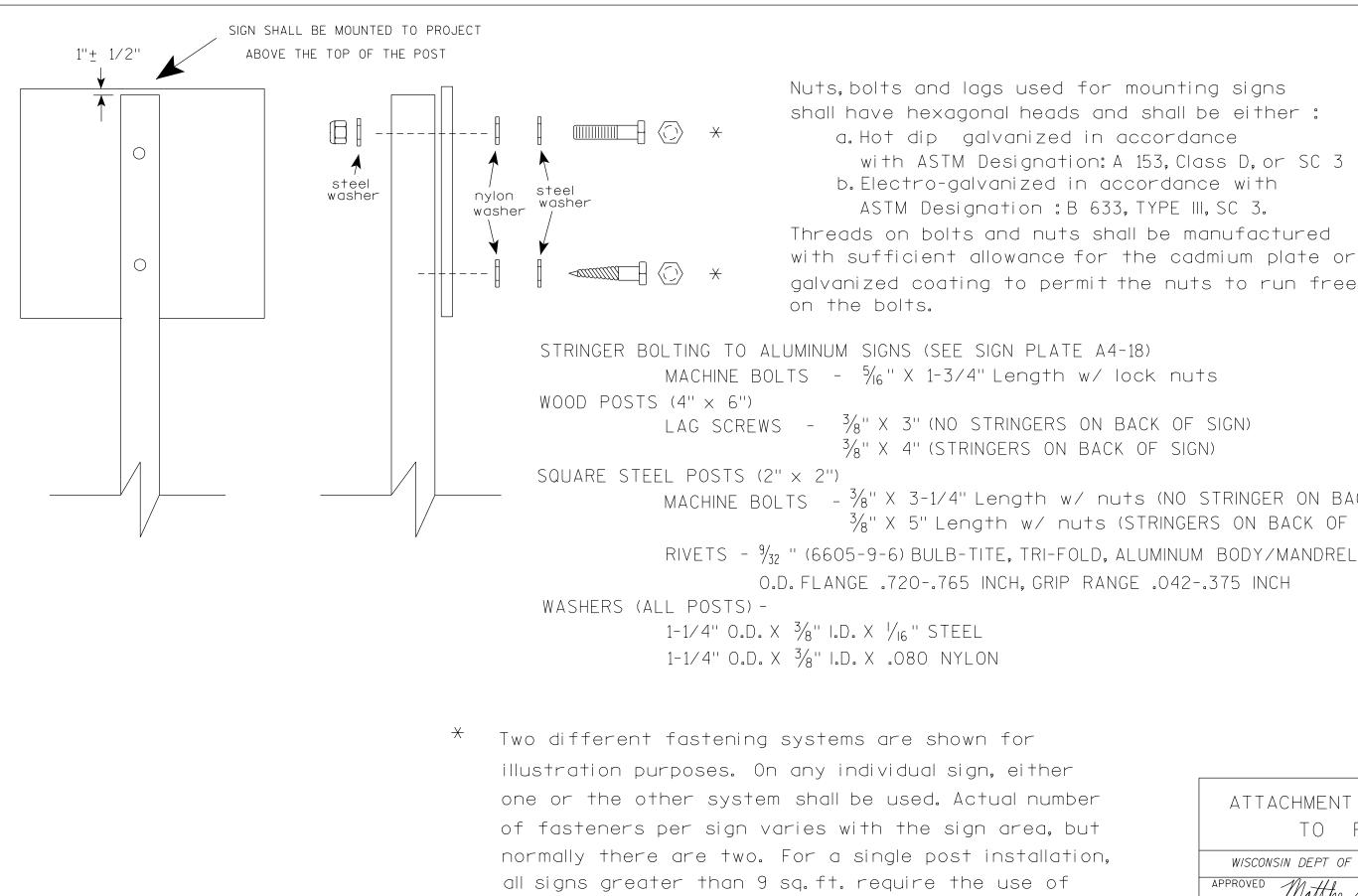
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs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

WISDOT/CADDS SHEET 42



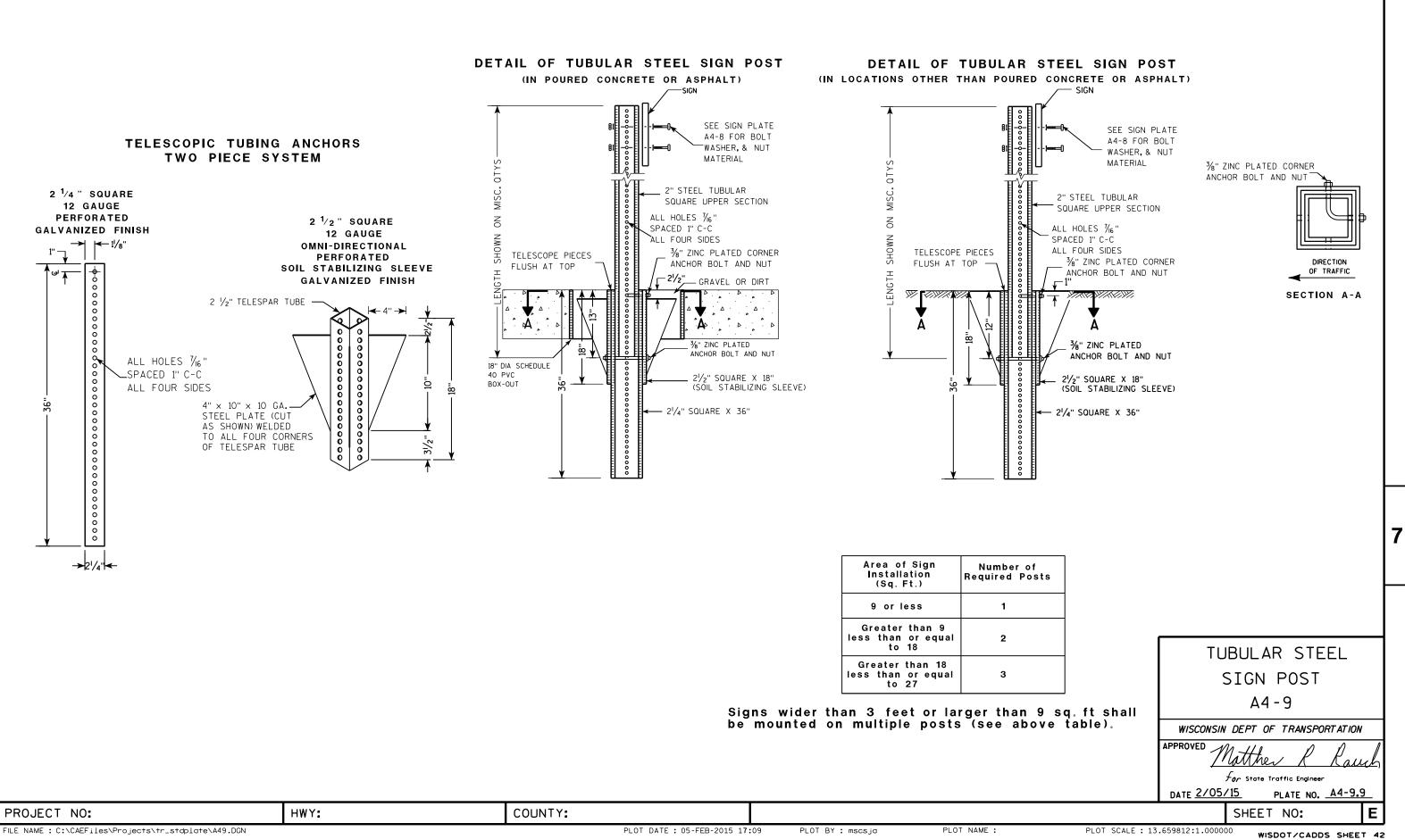
3 fasteners.

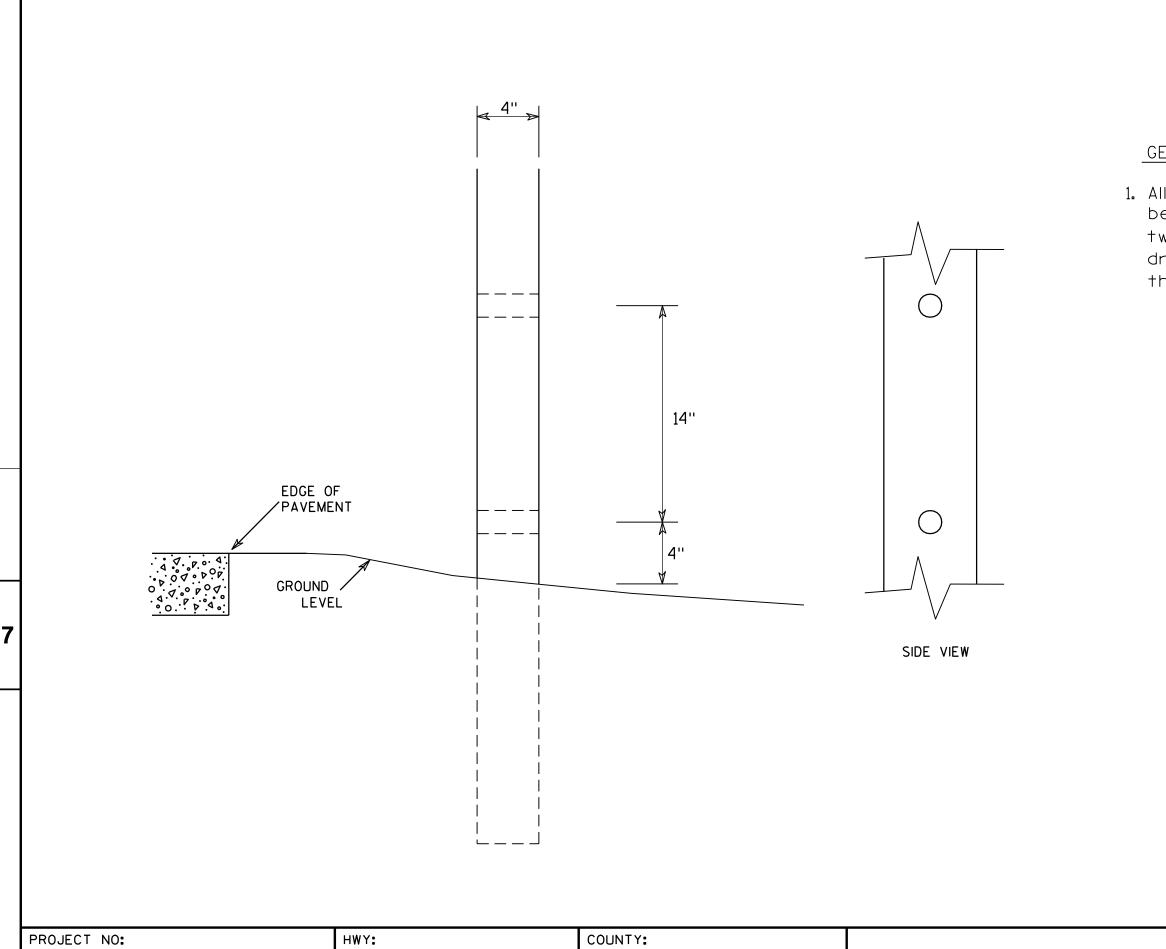
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured 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
For State Traffic Engineer
DATE <u>4/1/202</u> 0 plate no. <u>A4-8.9</u>
SHEET NO: E



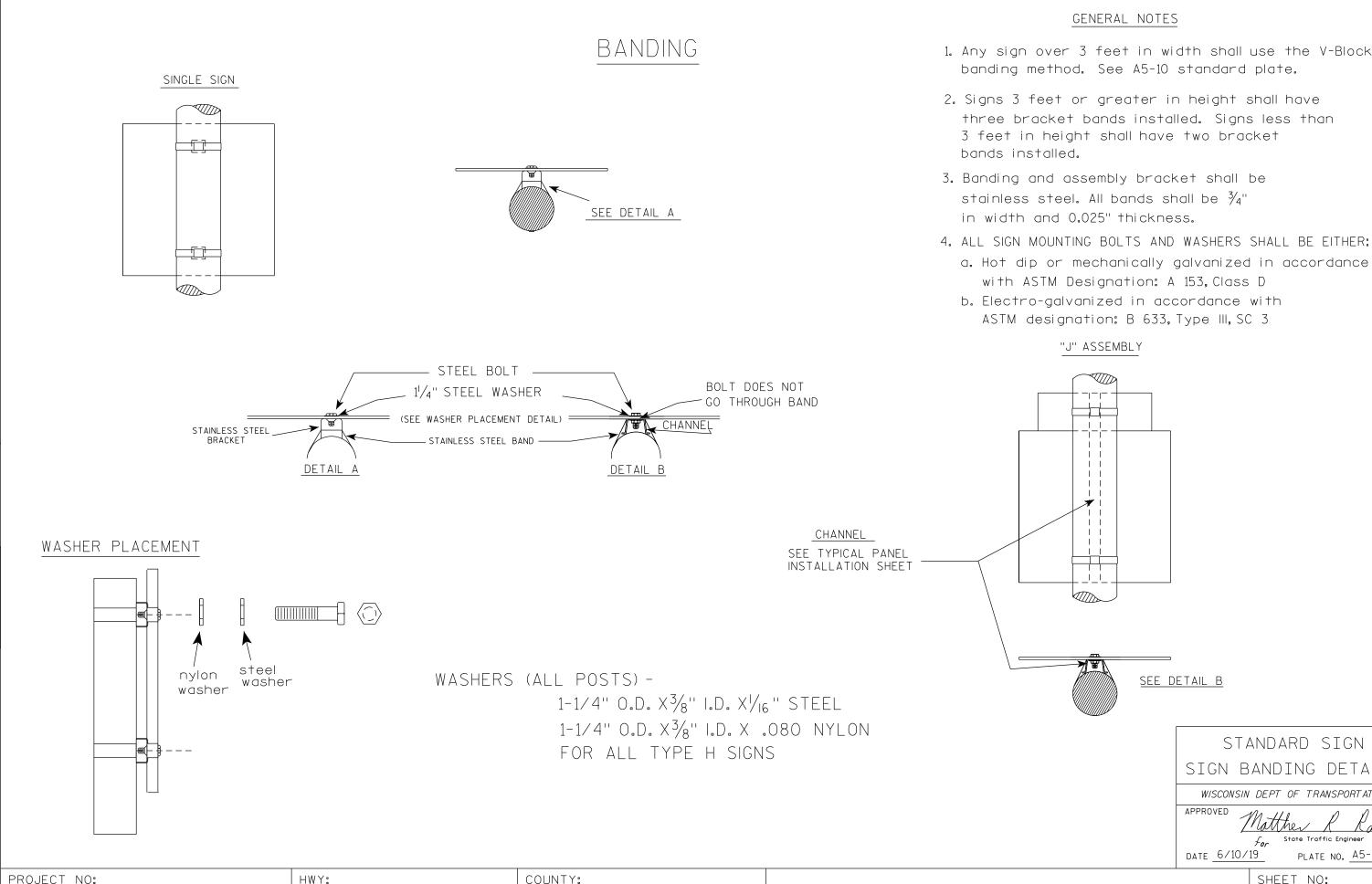


FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

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	
	WISC	onsin l	DEF	PT OF T	RANSI	PORTATION	'
	APPROVED J Spang						
			tor	State Tr	affic Er	ngineer	
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2
SHEET NO: E							
OT SCALE	T SCALE : 6.207338:1.000000 WISDOT/CADDS SHEET 42						



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

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PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME :

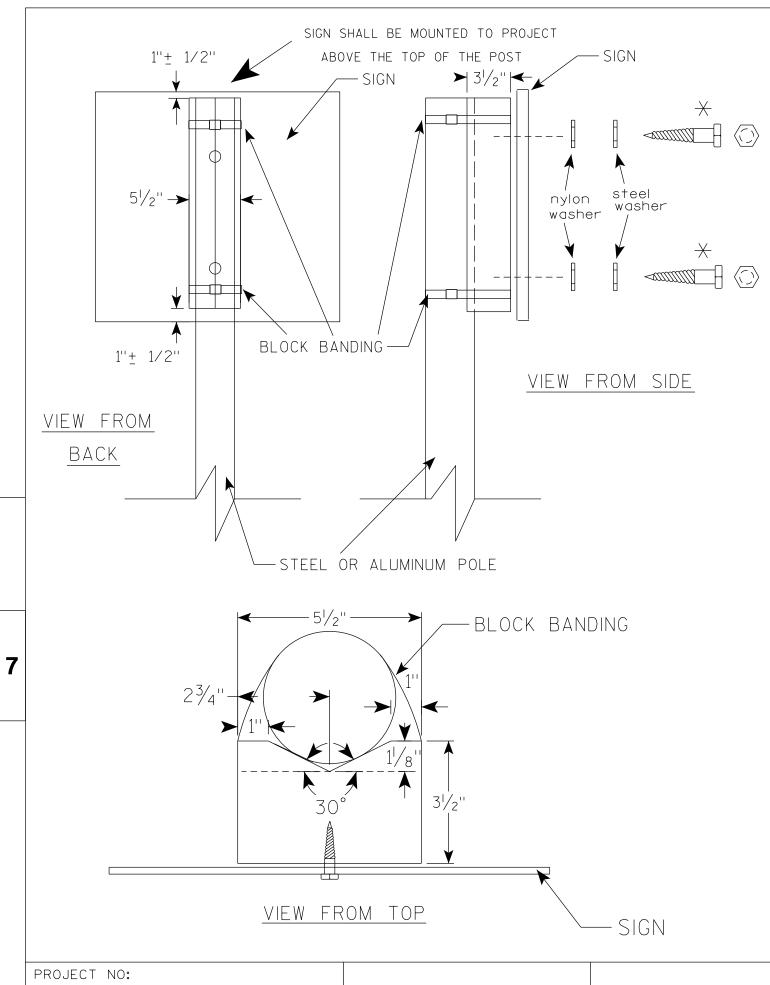
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.

three bracket bands installed. Signs less than 3 feet in height shall have two bracket

a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

	<u>SEE DETAIL B</u>
	STANDARD SIGN
	SIGN BANDING DETAILS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthe Rauch
	DATE 6/10/19 PLATE NO. 45-9.4
	SHEET NO: E
PLOT S	CALE : \$\$plotscale\$\$ WISDOT/CADDS SHEET 42



GENERAL NOTES

- WISDOT STANDARD SPECIFICATIONS
- AND 0.025" THICKNESS
- 9 S.F. 3 FASTENERS SHALL BE USED.
- a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- OR TYPE E EACE SIGN

 \times LAG BOLTS SHALL BE $\frac{3}{8}$ " X 2¹/₂"

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

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE

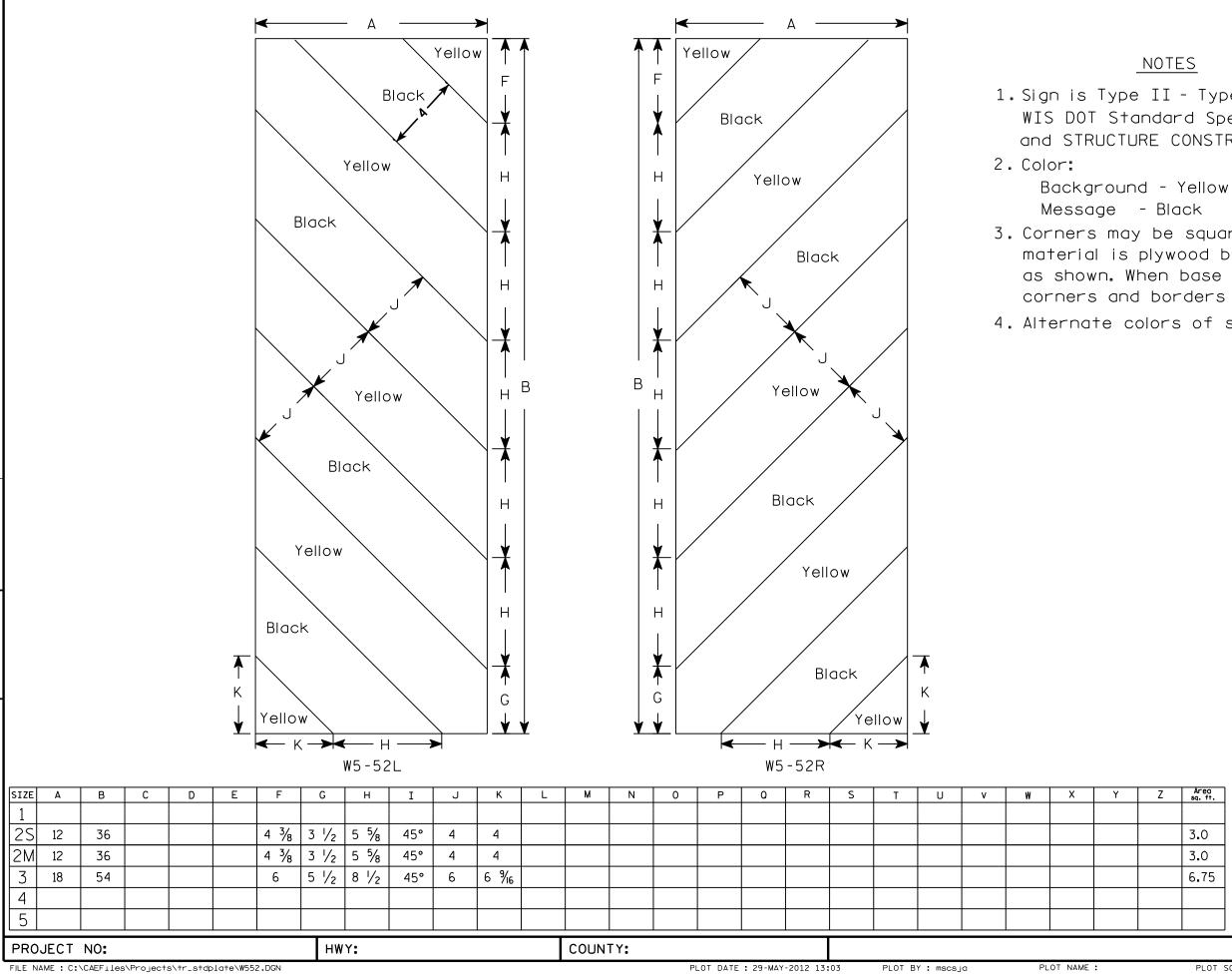
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH

3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:

8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H

BLOCK BANDING DETAIL (V-BLOCK OPTION)				
WISCONSIN DEPT OF TRANSPORTATION				
APPROVED Matthew R Rauch				
<i>for</i> State Traffic Engineer				
DATE <u>4/19/2022</u> plate no. <u>45-10.3</u>				
SHEET NO: E				
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WISDOT/CADDS SHEET 42



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

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PLOT NAME :

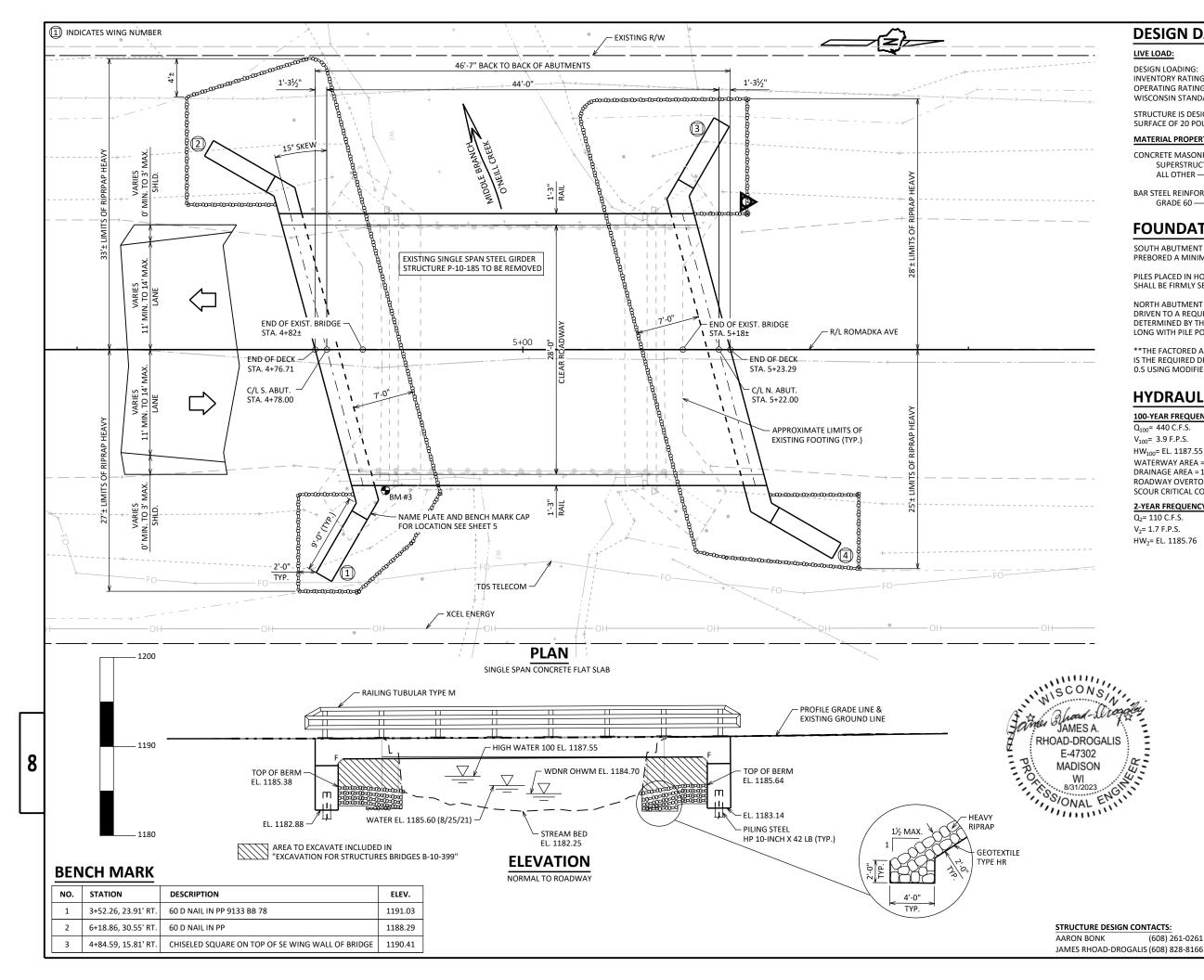
NOTES

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



DES	IGN	DA	TΑ
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LIVE LOAD:

DESIGN LOADING: HL-93 INVENTORY RATING: RF = 1.36 OPERATING RATING: RF = 1.76 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 $f'_c = 4.000 \text{ PSI}$ ALL OTHER $f'_{c} = 3.500 \text{ PSI}$

BAR STEEL REINFORCEMENT

GRADE 60 -

f_v = 60,000 PSI

FOUNDATION DATA

SOUTH ABUTMENT TO BE SUPPORTED ON STEEL HP 10-INCH X 42 LB PILING PREBORED A MINIMUM OF 3 FEET INTO BEDROCK. ESTIMATED 20'-0" LONG.

PILES PLACED IN HOLES PREBORED INTO ROCK DO NOT REQUIRE DRIVING. PILING SHALL BE FIRMLY SEATED AFTER PLACEMENT.

NORTH ABUTMENT TO BE SUPPORTED ON STEEL HP 10-INCH X 42 LB PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 25'-0" LONG WITH PILE POINTS

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

HYDRAULIC DATA

100-YEAR FREQUENCY:

Q₁₀₀= 440 C.F.S. V₁₀₀= 3.9 F.P.S. HW₁₀₀= EL. 1187.55 WATERWAY AREA = 112.9 SQ. FT. DRAINAGE AREA = 1.13 SQ. MI. ROADWAY OVERTOPPING = N/A SCOUR CRITICAL CODE = 5

2-YEAR FREQUENCY:

Q₂= 110 C.F.S. V₂= 1.7 F.P.S. HW₂= EL. 1185.76 **TRAFFIC DATA**

FEATURE ON: ADT = 220 (2024) ADT = 300 (2044) R.D.S. = 40 MPH

STATE PROJECT NUMBER

7850-00-71

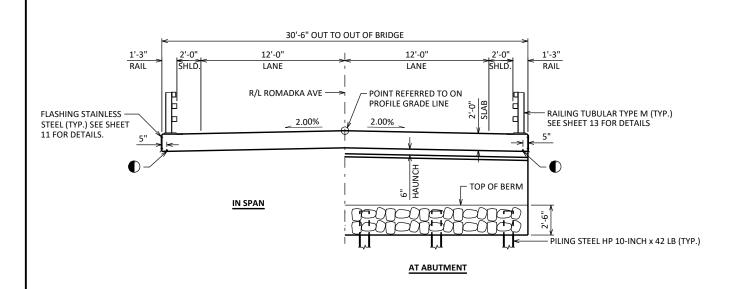
LIST OF DRAWINGS:

- GENERAL PLAN
- **CROSS SECTION & QUANTITIES** SUBSURFACE EXPLORATION
- SOUTH ABUTMENT
- WINGS 1 & 2
- SOUTH ABUTMENT DETAILS NORTH ABUTMENT
- WINGS 3 & 4
- NORTH ABUTMENT DETAILS
- SUPERSTRUCTURE SUPERSTRUCTURE DETAILS 1 10
- 11 SUPERSTRUCTURE DETAILS 2
- 12 13 RAILING TUBULAR TYPE M

NO. DATE REVISION BY										
STATE OF WISCONSIN DEPARTMENT OF TRANSPORATION ACCEPTED	NO.	DATE			RE	VISION			BY	
DEPARTMENT OF TRANSPORATION ACCEPTED CHIEF STRUCTURES DESIGN ENGINEER DATE TOWN CLARK COUNTY CLARK TOWN VORK DESIGN SPEC. AASHTO LRPD BRIDGE DESIGN PECIFICATION DESIGNED BY TRA CK'D JRD BY TRA CK'D JRD H										8
ROMADKA AVE OVER MIDDLE BRANCH O'NEILL CREEK COUNTY CLARK TOWN YORK DESIGN SPEC. AASHTO LRPD BRIDGE DESIGN SPECIFICATION DESIGNED DESIGNED DRAWN BY TRA CK'D JRD SHEET 1 OF 13	ACC	EPTED				F TRANSP	ORATI	11/1		
COUNTY CLARK TOWN DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATION DESIGNED DESIGNED DRAWN BY TRA CK'D JRD BY TRA CK'D JRD SHEET 1 OF 13	S	TRL	JCT	URE	B-	10-39	9			
CLARK YORK DESIGN SPEC: AASHTO LRFD BRIDGE DESIGN SPECIFICATION DESIGNED DESIGNED DRAWN BY TRA CK'D JRD BY TRA CK'D JRD SHEET 1 OF 13			ADKA	AVE OVE	R MID		NCH O	NEILL C	REEK	
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATION DESIGNED DESIGNED DRAWN PLANS BY TRA CK'D JRD BY TRA CK'D JRD SHEET 1 OF 13	COU	INTY			LARK	TOWN			YORK	
BY TRA CK'D JRD BY TRA CK'D JRD SHEET 1 OF 13	-			IDGE DESIG	N SPECI	FICATION				
SHEET 1 OF 13		IGNED	TRA		JRD		TRA		JRD	
							SHEE	ET 1 OF	13	CALE =

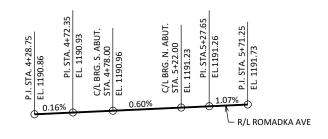
(608) 261-0261

DATE:

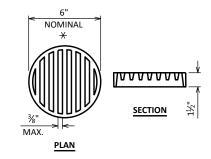


CROSS SECTION THRU ROADWAY LOOKING NORTH

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



PROFILE GRADE LINE

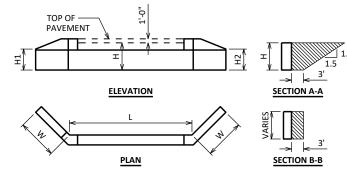


RODENT SHIELD DETAIL

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

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAING 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.



ABUTMENT BACKFILL DIAGRAM

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

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	SOUTH ABUTMENT	NORTH ABUTMENT	SUPER.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS P-10-185	EACH				1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-10-399	EACH		<u> </u>		1
210.1500	BACKFILL STRUCTURE TYPE A	TON	180	180		360
502.0100	CONCRETE MASONRY BRIDGES	CY	29	29	110	168
502.3200	PROTECTIVE SURFACE TREATMENT	SY	20	20	190	230
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,200	2,200		4,400
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,430	1,440	20,340	23,210
513.4061	RAILING TUBULAR TYPE M	LF			97	97
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	7	7		14
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	105			105
550.0500	PILE POINTS	EACH	(<u> </u>	7	<u> </u>	7
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	140	175		315
606.0300	RIPRAP HEAVY	CY	60	50	<u> </u>	110
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70	70		140
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	55	55	<u> </u>	110
645.0120	GEOTEXTILE TYPE HR	SY	90	80		170
SPV.0090.01	FLASHING STAINLESS STEEL	LF	27 <u></u> 22		83	83
	NON-BID ITEMS					
	FILLER	SIZE				1/2" & 3/

GENERAL NOTES

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DRAWINGS SHALL NOT BE SCALED

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 ³/₄" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-10-399" SHALL BE THE EXISTING GROUNDLINE

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

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

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

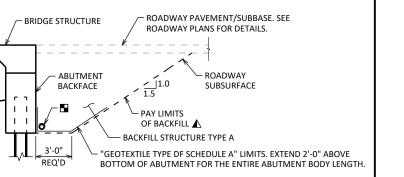
PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF SLAB, TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-0" OF THE FRONT FACE OF ABUTMENT

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE "HR" TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS. PLACE RIPRAP TO ALLOW FOR THE FULL STREAM WIDTH AT THE BRIDGE AS SHOWN ON SHEET 1.

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

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

THE EXISTING STRUCTURE (P-10-185) IS A STEEL GIRDER STRUCTURE, 32.6' LONG X 27.4' WIDE, TO BE REMOVED.

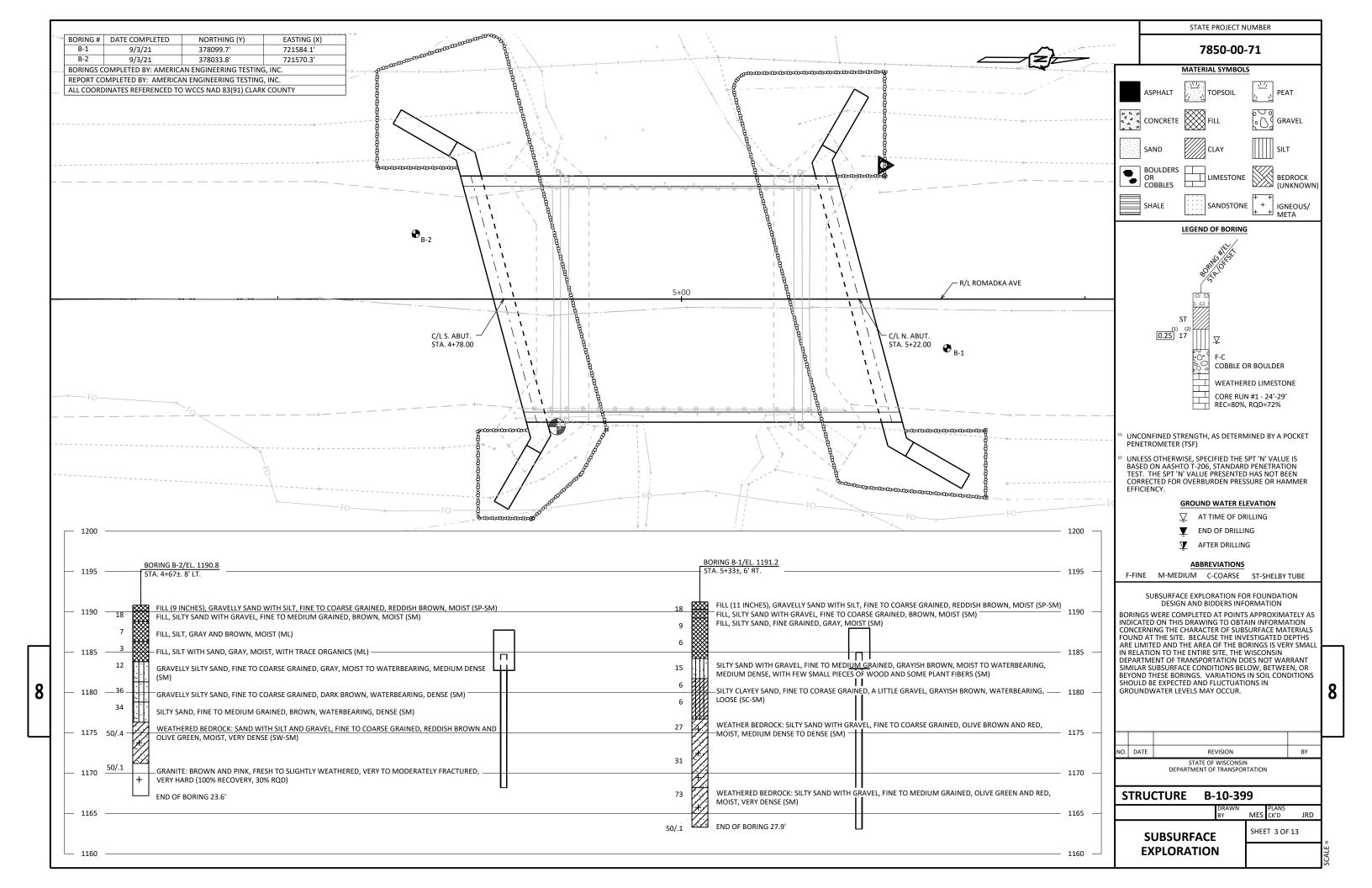


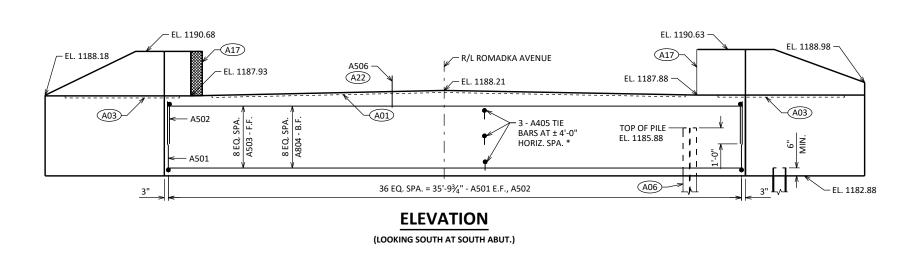
TYPICAL SECTION THRU ABUTMENT

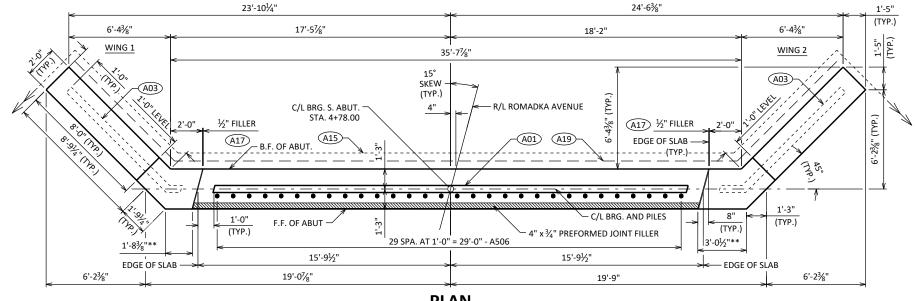
▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

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

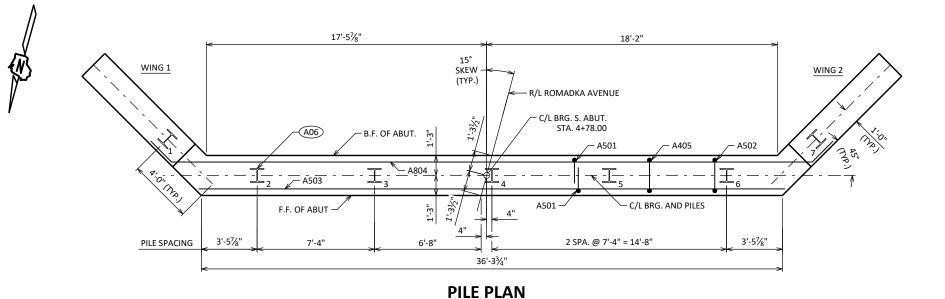
_									
NO.	DATE	RI	EVISION		BY				
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
STRUCTURE B-10-399									
			DRAWN BY	PLANS TRA CK'D	JRD				
	CRO	SS SECTION	SHEET 2 O	F 13					
	C	UANTITIES			SCALE :				











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LEGEND

- (A01) CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 x 6.
- (A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).
- (A06) SUPPORT ABUTMENTS ON PILING STEEL 10-INCH x 42 LB. SEE PILE NOTE ON SHEET 1 AND PILE SPLICE DETAIL ON SHEET 6.
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. MINIMUM DISCHARGE EL. 1185.70. RODENT SHIELD REQUIRED. SEE SHEET 2.
- ▲17 ½" FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ½" BELOW SURFACE OF CONCRETE).
- (A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- (A22) BARS @ 1'-0" CTRS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)
- * ALTERNATE THE POSITION OF THE 90° AND 180° HOOKS AT EACH VERTICAL LAYER OF TIES.
- \star \star INCLUDES $\frac{1}{2}$ " FILLER, MEASURED TO EDGE OF SLAB.

NOTES

FOR WING DETAILS SEE SHEET 5.

ADJUST A501 AND A502 BARS TO MISS PILING.

B.F. DENOTES BACK FACE.

F.F. DENOTES FRONT FACE.

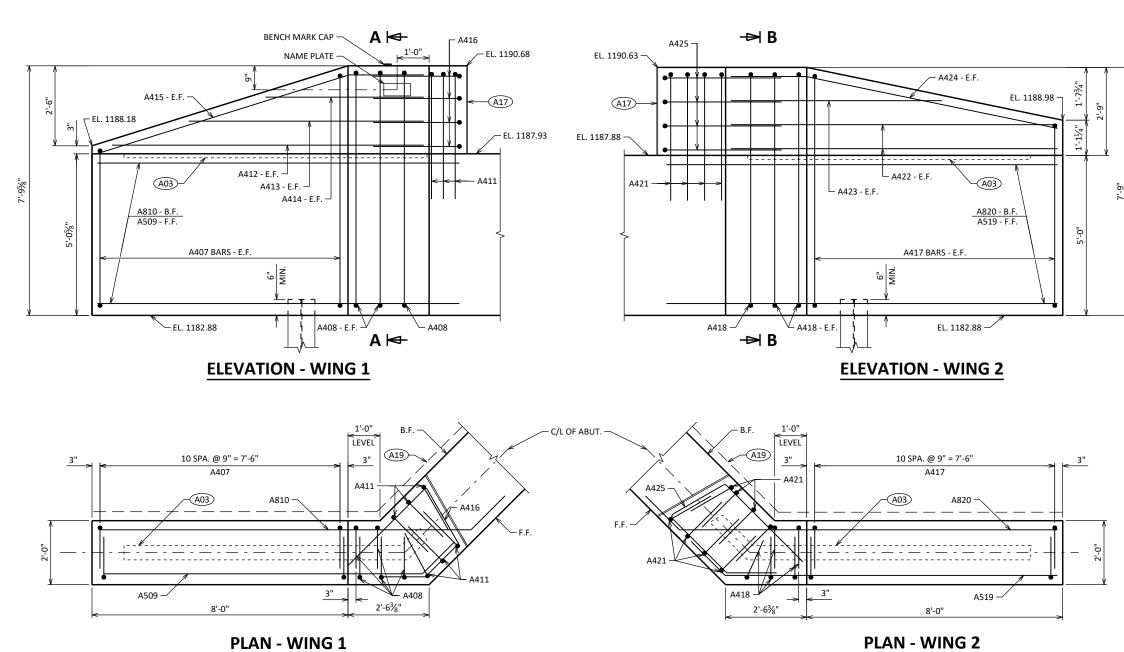
E.F. DENOTES EACH FACE.

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

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP EXTERIOR EXPOSED FACE OF WINGS, AND TO THE FRONT FACE OF THE ABUTMENT FROM THE ABUTMENT CORNER TO 1'-0" UNDER THE SLAB.

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

						8	
			REVISION				
NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION							
S	TRU	CTURE	B-10-39	9			
			DRAWN BY	PLANS TRA CK'D	JRD		
			SHEET 4 OF	13	ш		
		TH ABU					



NOTES

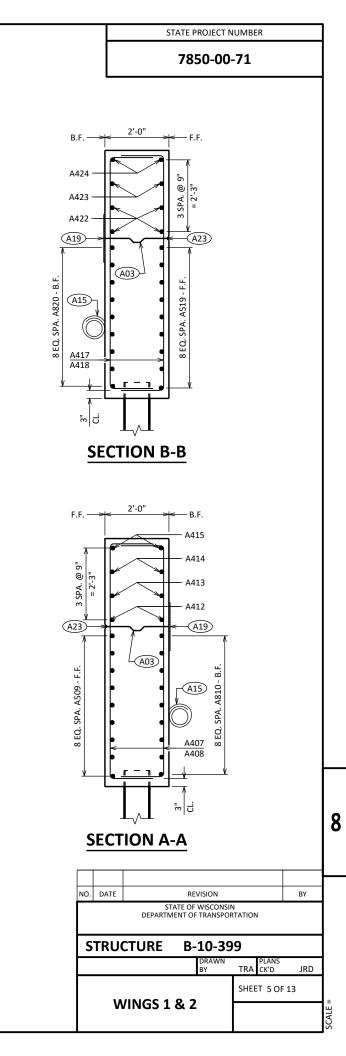
18" RUBBERIZED MEMBRANE WATERPROOFING REQUIRED IF OPTIONAL CONST. JOINT IS USED. (COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES").

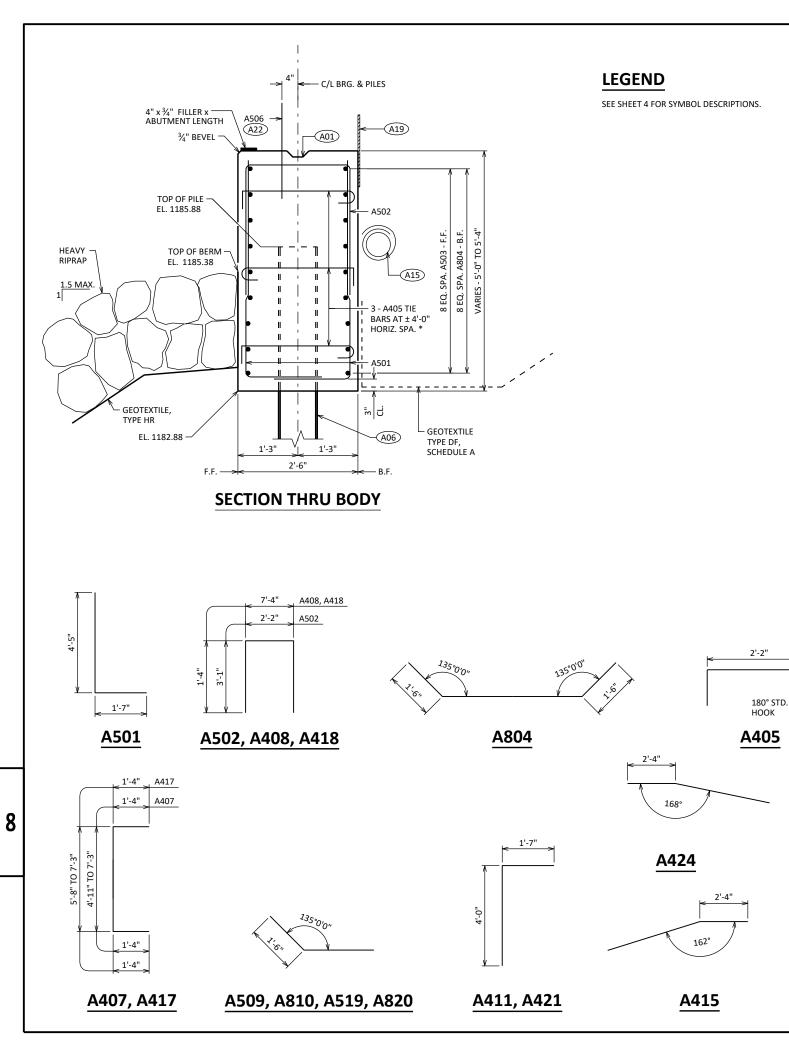
ADJUST A407 AND A417 BARS TO MISS PILING.

LEGEND

 $\frac{3}{4}$ " "V" grove on F.F. of Wingwall - Not Required if const. Joint is not used. (A23)

FOR ADDITIONAL SYMBOL DESCRIPTIONS SEE SHEET 4.





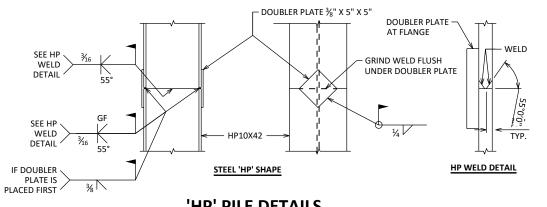
BAR SERIES

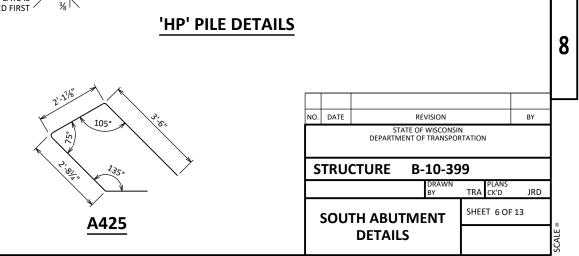
MARK	NO. REQ'D	LENGTH
A407	2 SETS OF 11	7'-5" T0 9'-9"
A417	2 SETS OF 11	8'-2" TO 9'-9"

A416

BILL OF BA

MARK	NO. REQ'D	LENGTH	BENT	BAR	LOCATION	
UNCOA	TED BARS				TOTAL WEIGHT = 2,	200 LBS
A501	74	5 - 11	X		ABUT. BODY STIRRUPS	VERT
A502	37	8 - 1	X		ABUT. BODY STIRRUPS - TOP U-BAR	VERT
A503	9	36 - 2			ABUT. BODY - F.F.	HORIZ
A804	9	42 - 11	X		ABUT. BODY - B.F.	HORIZ
A405	30	3 - 0	X		ABUT. BODY TIE BARS	HORIZ
COAT	ED BARS				TOTAL WEIGHT = 1,4	130 LBS
A506	30	2 - 0			ABUT. BODY DOWEL BARS	VERT
A407	22	8 - 7	X		WING 1 STIRRUPS	VERT
A408	5	9 - 11	x		WING 1 STIRRUPS	VERT
A509	9	11 - 8	X		WING 1- F.F.	HORIZ
A810	9	13 - 2	X		WING 1 - B.F.	HORIZ
A411	6	5 - 6	X		WING 1 - E.F.	VERT
A412	2	9 - 5			WING 1 - E.F.	HORIZ
A413	2	7 - 0			WING 1 - E.F.	HORIZ
A414	2	4 - 8			WING 1 - E.F.	HORIZ
A415	2	10 - 6	X		WING 1 - E.F.	HORIZ
A416	4	8 - 4	X		WING 1	HORIZ
A417	22	9 - 0	X		WING 2 STIRRUPS	VERT
A418	5	9 - 10	X		WING 2 STIRRUPS	VERT
A519	9	11 - 8	X		WING 2 - F.F.	HORIZ
A820	9	13 - 2	X		WING 2 - B.F.	HORIZ
A421	8	5 - 6	X		WING 2 - E.F.	VERT
A422	4	10 - 2			WING 2 - E.F.	HORIZ
A423	2	6 - 2			WING 2 - E.F.	HORIZ
A424	2	10 - 4	X		WING 2 - E.F.	HORIZ
A425	4	9 - 7	X		WING 2	HORIZ



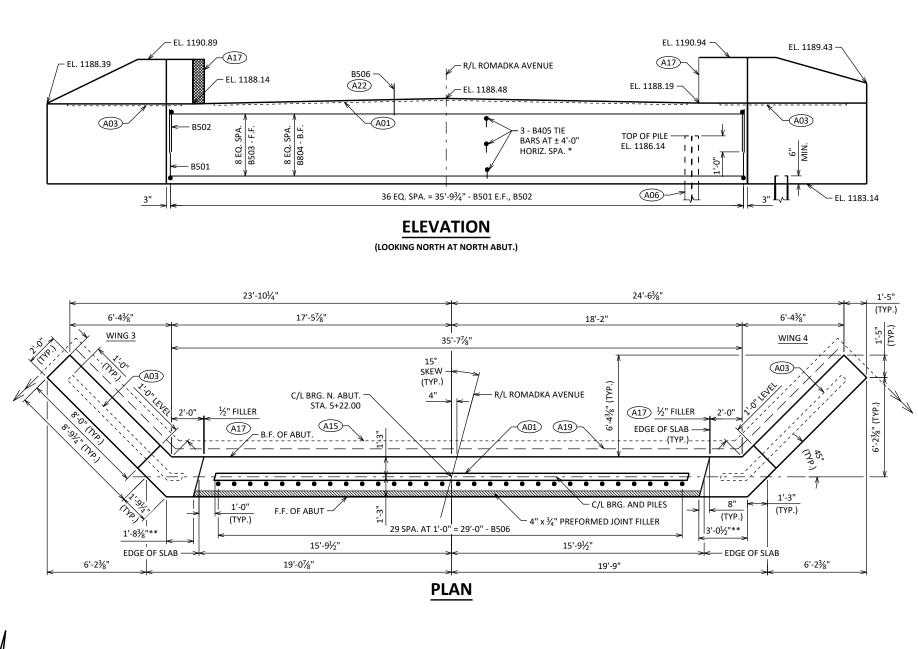


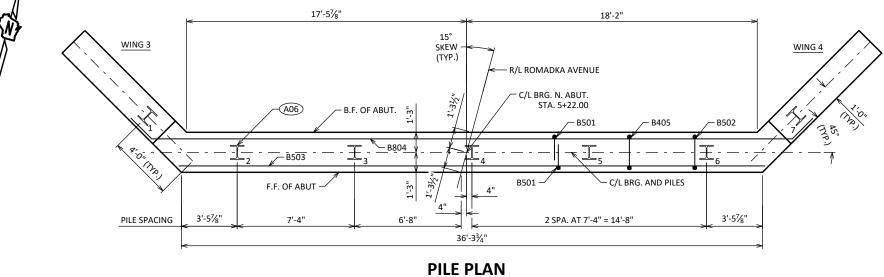
STATE PROJECT NUMBER

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RS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.





STATE PROJECT NUMBER

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LEGEND

SEE SHEET 4 FOR SYMBOL DESCRIPTIONS.

NOTES

FOR WING DETAILS SEE SHEET 8.

ADJUST B501 AND B502 BARS TO MISS PILING.

B.F. DENOTES BACK FACE.

F.F. DENOTES FRONT FACE.

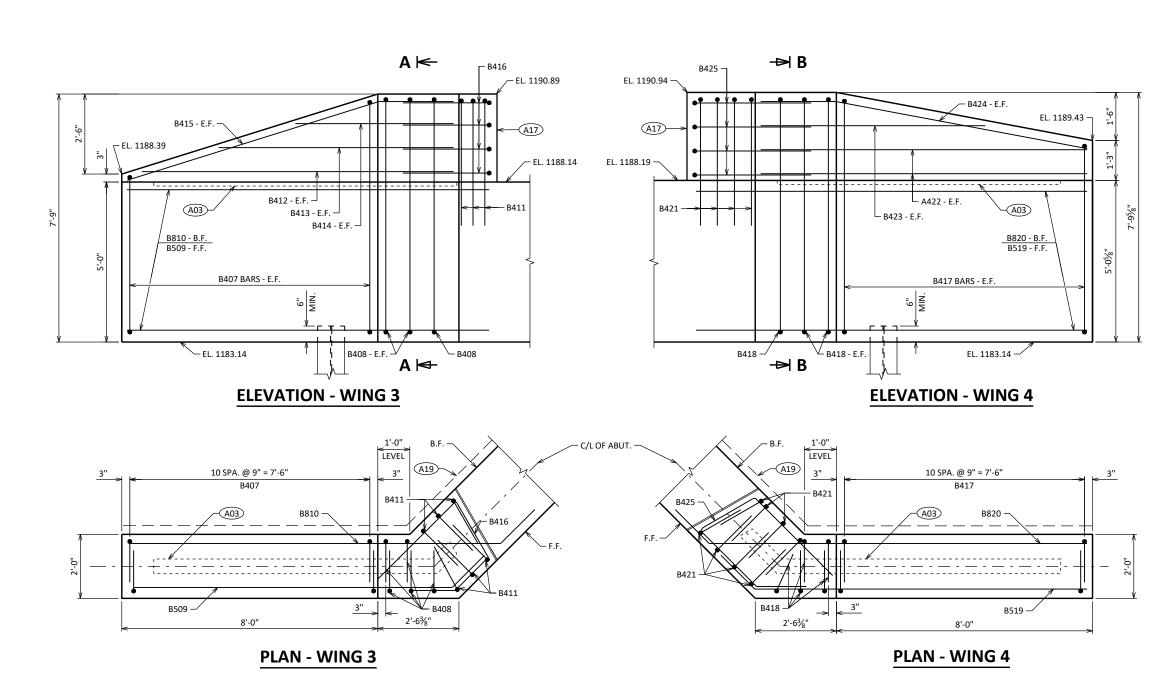
E.F. DENOTES EACH FACE.

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

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP EXTERIOR EXPOSED FACE OF WINGS, AND TO THE FRONT FACE OF THE ABUTMENT FROM THE ABUTMENT CORNER TO 1'-0" UNDER THE SLAB.

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

					1	-	
NO.	DATE		REVISION		BY		
			OF WISCONSI OF TRANSPO				
STRUCTURE B-10-399							
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			SHEET 7 OF	- 13]_		
	NOR	TH ABUTN	/IEN I			SCALE =	



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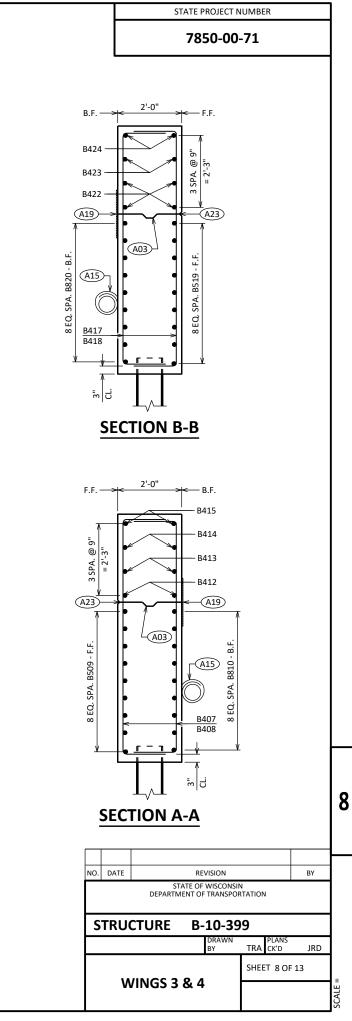
18" RUBBERIZED MEMBRANE WATERPROOFING REQUIRED IF OPTIONAL CONST. JOINT IS USED. (COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES").

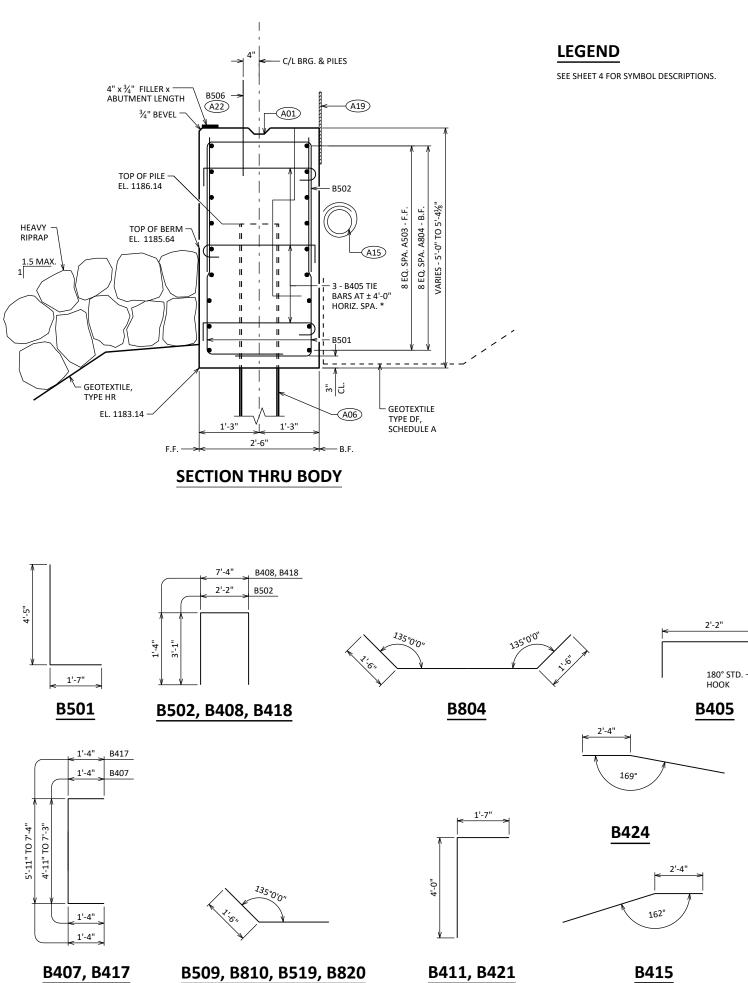
ADJUST B407 AND B417 BARS TO MISS PILING.

LEGEND

(A23) ³/₄" "V" GROVE ON F.F. OF WINGWALL - NOT REQUIRED IF CONST. JOINT IS NOT USED.

FOR ADDITIONAL SYMBOL DESCRIPTIONS SEE SHEET 4.





BAR SERIES

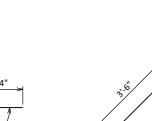
MARK	NO. REQ'D	LENGTH
B407	2 SETS OF 11	7'-5" T0 9'-9"
B417	2 SETS OF 11	8'-5" T0 9-10"

BILL OF BARS

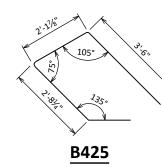
DIMENSIONS IN BENDIN
LENGTH SHOWN FOR BA
CALCULATIONS. SEE BA

MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
UNCOA	TED BARS				TOTAL WEIGHT = 2,2	200 LBS
B501	74	5 - 11	X		ABUT. BODY STIRRUPS	VERT
B502	37	8 - 1	X		ABUT. BODY STIRRUPS - TOP U-BAR	VERT
B503	9	36 - 2			ABUT. BODY - F.F.	HORIZ
B804	9	42 - 11	X		ABUT. BODY - B.F.	HORIZ
B405	30	3 - 0	X		ABUT. BODY TIE BARS	HORIZ
COAT	ED BARS				TOTAL WEIGHT = 1,4	440 LBS
B506	30	2 - 0			ABUT. BODY DOWEL BARS	VERT
B407	22	8 - 7	X	A	WING 3 STIRRUPS	VERT
B408	5	9 - 11	X		WING 3 STIRRUPS	VERT
B509	9	11 - 8	X		WING 3 - F.F.	HORIZ
B810	9	13 - 2	X		WING 3 - B.F.	HORIZ
B411	6	5 - 6	X		WING 3 - E.F.	VERT
B412	2	9 - 5			WING 3 - E.F.	HORIZ
B413	2	7 - 0			WING 3 - E.F.	HORIZ
B414	2	4 - 8			WING 3 - E.F.	HORIZ
B415	2	10 - 6	х		WING 3 - E.F.	HORIZ
B416	4	8 - 4	X		WING 3	HORIZ
B417	22	9 - 2	х		WING 4 STIRRUPS	VERT
B418	5	9 - 10	X		WING 4 STIRRUPS	VERT
B519	9	11 - 8	x		WING 4 - F.F.	HORIZ
B820	9	13 - 2	X		WING 4 - B.F.	HORIZ
B421	8	5 - 6	x		WING 4 - E.F.	VERT
B422	4	10 - 2			WING 4 - E.F.	HORIZ
B423	2	6 - 6			WING 4 - E.F.	HORIZ
B424	2	10 - 3	Х		WING 4 - E.F.	HORIZ
B425	4	9 - 7	X		WING 4	HORIZ





B416

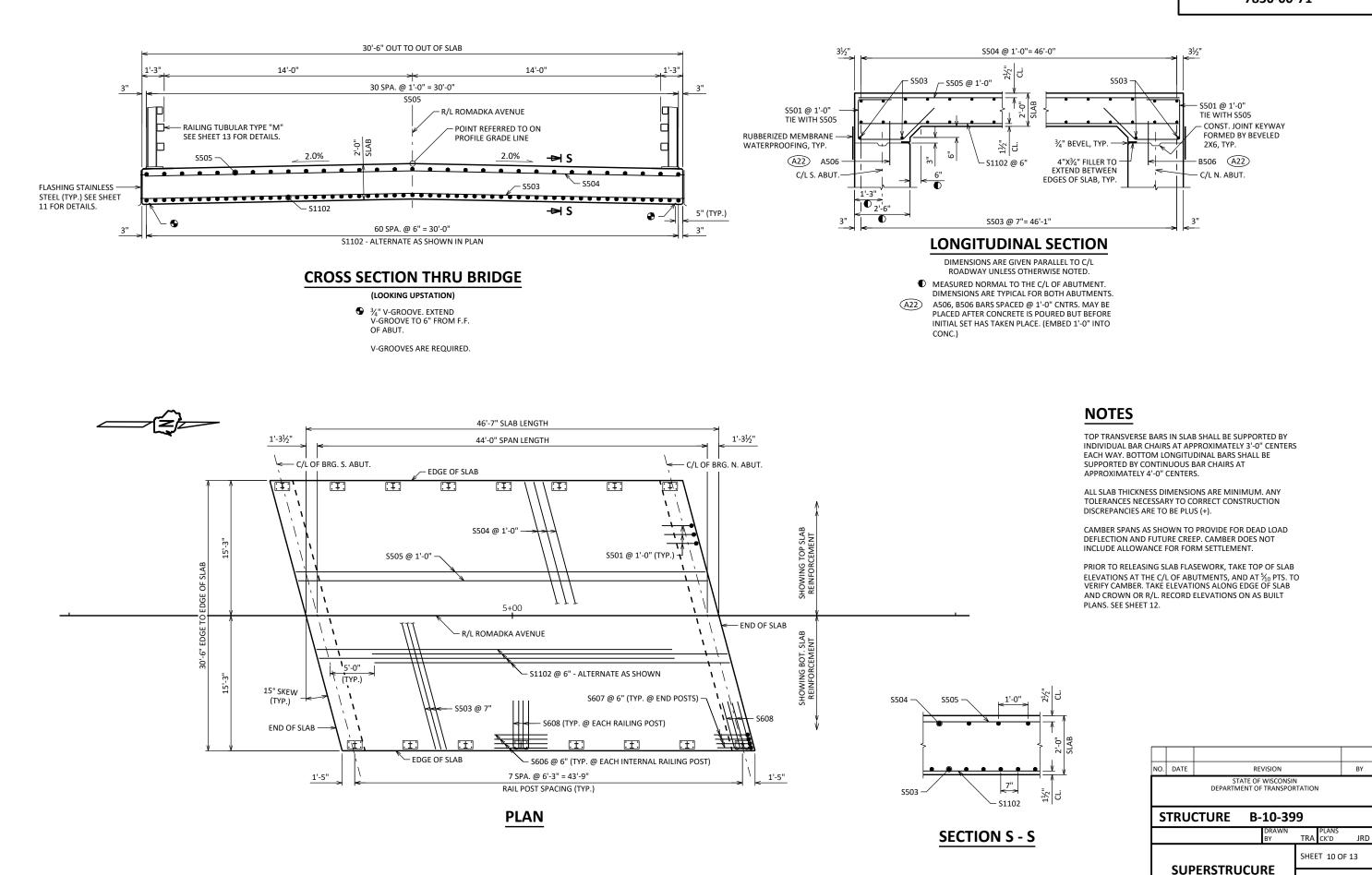


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ING DETAILS ARE OUT TO OUT OF BAR. BAR IS AN AVG. LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT

		[
NO.	DATE	RE	VISION			BY		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
STRUCTURE B-10-399								
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NORTH ABUTMENT					T 9 OF	13		
		DETAILS				SCALE =		
							•	

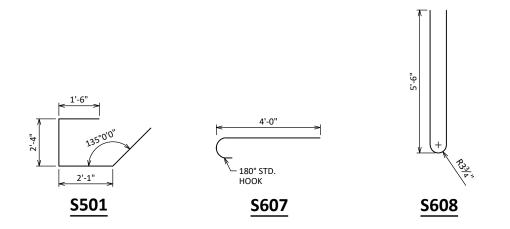


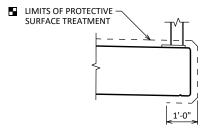


7850-00-71

BILL OF BARS

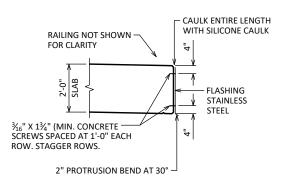
MARK	NO. REQ'D.	LENGTH	BENT	LOCATION			
			DEINI				
UNCOA	TED BARS				TOTAL WEIGHT = 20,340 LBS		
S501	62	7 - 9	X	SLAB - AT ABUT.	LONGIT.		
S1102	61	40 - 1		SLAB - BOTTOM	LONGIT.		
S503	84	31 - 2		SLAB - BOTTOM	TRANS.		
S504	47	31 - 2		SLAB - TOP	TRANS.		
S505	31	46 - 2		SLAB - TOP	LONGIT.		
S606	48	6 - 0		SLAB - AT INT. POST - 4 PER POST	LONGIT.		
S607	16	4 - 8	X	SLAB - AT EXT. POST - 4 PER POST	LONGIT.		
S608	32	11 - 4	X	SLAB - AT POST - 2 PER POST	TRANS.		





SURFACE PROTECTION DETAIL

COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.



FLASHING DETAIL

FLASHING NOTES

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLU INSTALLING THE STAINLESS STEEL FLASHING, SILICONE CA CONCRETE SCREWS.

FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE APPLICATION.

CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

EXTEND FLASHING TO B.F. OF ABUTMENT.

TOP OF FLASHING TO BEGIN APPROX. 1-INCH BELOW TO

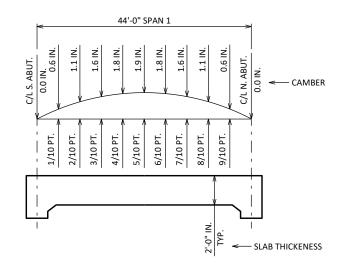
THE FLASHING IS TO BE A CONSTANT HEIGHT BASED ON DEPTH OVER THE BRIDGE LENGTH.

PROVIDE 2" MINIMUM FLASHING OVERLAP, FASTEN WIT CONCRETE SCREWS.

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UDE PROVIDING AND								0		
CAULK AND ¾6"								0		
E TREATMENT										
								⊢		
	NO.	DATE		RE	VISION		BY			
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
OP OF SLAB SURFACE.			DEFFICIENCE		110 4101 01					
THE THINNEST SLAB	S	TRU	CTURE	B-	10-39	9				
TU 37 " V 2" (NAINI)					DRAWN BY	PLANS TRA CK'D	JRD			
TH ¾ ₆ " X 2" (MIN.)		SUP	ERSTRUC	TU	RE	SHEET 11 C	F 13			
			DETAILS	1				SCALE		



CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. 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, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

- TOP OF SLAB ELEVATION AT FINAL GRADE SLAB THICKNESS
- LESS SLAB THIC PLUS CAMBER
- PLUS CAMBER PLUS FORM SE
- EQUALS TOP OF S
- FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR) TOP OF SLAB FALSEWORK ELEVATION

TOP OF SLAB ELEVATIONS

SPAN	LOCATION	C/L BRG. S. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L BRG. S. ABUT.
	W. EDGE OF SLAB	1190.63	1190.66	1190.69	1190.71	1190.74	1190.77	1190.79	1190.82	1190.84	1190.87	1190.90
1	CROWN OR R/L	1190.96	1190.99	1191.02	1191.04	1191.07	1191.09	1191.12	1191.15	1191.17	1191.20	1191.23
	E. EDGE OF SLAB	1190.68	1190.71	1190.74	1190.76	1190.79	1190.81	1190.84	1190.87	1190.89	1190.92	1190.95

SURVEY TOP OF SLAB ELEVATIONS

LOCATION	S. ABUTMENT	5/10 PT.	N. ABUT
W. EDGE OF SLAB			
CROWN OR R/L			
E. EDGE OF SLAB			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIO PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGES OF SLAB A THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

NOTES

FILL IN THE TABLE OF "SURVEY TO EACH SPAN ON <u>AS BUILT PLANS</u>.

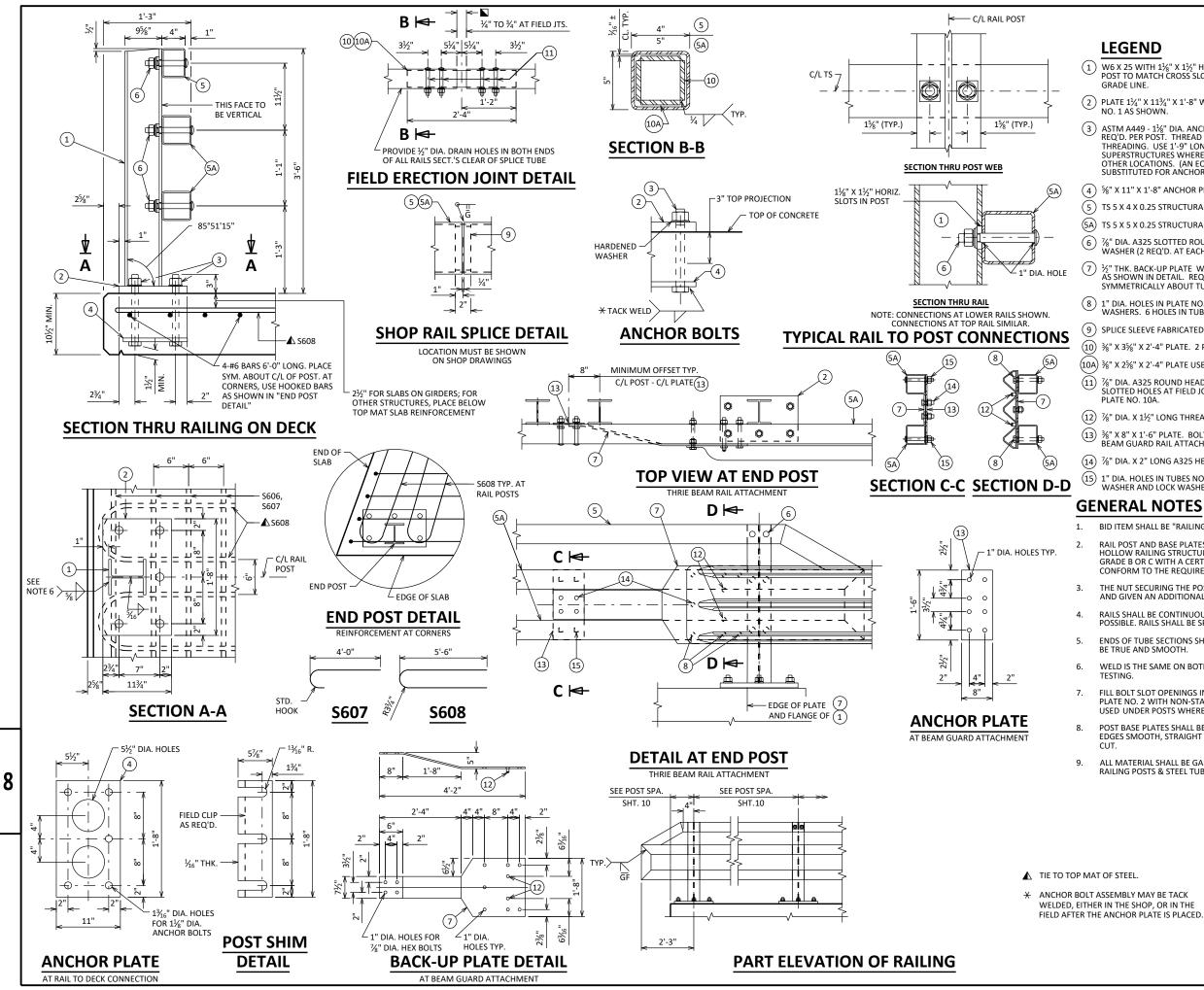
TOP TRANSVERSE BARS IN SLAB SI INDIVIDUAL BAR CHAIRS AT APPRI EACH WAY. BOTTOM LONGITUDIN SUPPORTED BY CONTINUOUS BAF 4-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS TOLERANCES NECESSARY TO CORI DISCREPANCIES ARE TO BE PLUS (-

MENT						
DNS AT THE C/L OF ABUTMENTS		(10				
AND CROWN OR C/L. RECORD TH						8
	NO. DATE		REVISION		BY	
OP OF SLAB ELEVATIONS" FOR		DEPARTM	ATE OF WISCONSII	RTATION		
SHALL BE SUPPORTED BY ROXIMATELY 3'-0" CENTERS	STRU	CTURE	B-10-39	99		
INAL BARS SHALL BE AR CHAIRS AT APPROXIMATELY			DRAWN BY	PLANS TRA CK'D	JRD	
IS ARE MINIMUM. ANY	SUP	ERSTRU	SHEET 12 C)F 13	= 2.25	
RRECT CONSTRUCTION (+).		DETAILS	52			SCALE =
						-

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STATE PROJECT NUMBER

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 $\underbrace{(1)}_{W6 \ x \ 25 \ WITH \ 1\%'' \ x \ 1\%'' \ HORIZ. \ SLOTS \ ON \ EACH \ SIDE \ OF \ POST \ FOR \ BOLT \ NO. \ 6. \ CUT \ BOTTOM \ OF \ POST \ TO \ MATCH \ CROSS \ SLOPE \ OF \ ROADWAY. \ PLACE \ POST \ VERTICAL. \ PLACE \ POST \ NORMAL \ TO \ NORMAL \ TO \ NORMAL \ TO \ NORMAL \ NORM$

2 PLATE $1\frac{1}{4}$ " X $1\frac{1}{4}$ " X $1\frac{1}{6}$ " WITH $1\frac{7}{16}$ " DIA. OVERSIZED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN

3 ASTM A449 - 1 $\frac{1}{8}"$ 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 ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 103/" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR CONSTRUCTABILITY.)

(4) $\frac{1}{2}$ %" X 11" X 1'-8" ANCHOR PLATE (GALVANIZED) WITH $1\frac{3}{16}$ " DIA. HOLES FOR ANCHOR BOLTS NO. 3

(5) TS 5 X 4 X 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6

(5A) TS 5 X 5 X 0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.

 7_{8} " DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, 3_{16} " X 15_{8} " X 15_{8} " MIN. WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION.)

½" THK. BACK-UP PLATE WITH 2 - ½" X 1½" THREADED SHOP WELDED STUDS (NO. 12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO. 5A.

8 1" dia. Holes in plate no. 7 & tubes no. 5a for $7_8''$ dia. A325 bolts with HeX nuts and Washers. 6 holes in tubes and plate no. 7.

(9) SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT"

(10) ¾" X 3½" X 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.

(10A) ¾" X 25%" X 2'-4" PLATE USED IN NO. 5, ¾" X 35%" X 2'-4" PLATE USED IN NO. 5A. 2 PER RAIL

(1) %" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE $\frac{1}{16}$ " X 1¼" LONGIT. SLOTTED HOLES AT FIELD JOINTS AND $\frac{1}{56}$ " X 2¼" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN

(12) %" DIA. X 1½" LONG THREADED SHOP WELDED STUDS (2 REQ'D).

(13) ¾" 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) ⁷/₈" DIA. X 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQ'D.).

(15) 1" DIA. HOLES IN TUBES NO. 5A FOR 7/8" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4 REQ'D.). 4 HOLES IN TUBES.

GENERAL NOTES

BID ITEM SHALL BE "RAILING TUBULAR TYPE M" 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 1/2 TURN.

RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN A PANEL OVER EXPANSION JOINTS.

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

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

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.

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NO.	DATE	REVISION BY								
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION										
STRUCTURE B-10-399										
			DRAWN BY	TRA	PLANS CK'D	JRD				
	τu	BULAR	SHEI	ET 13 O	F 13	= 2.00				
	RAIL	ING TYI				CALE =				

ROMADKA	AVENUE										
				AREA (SF)		INCREN	IENTAL VOL (CY) (UNAD.	JUSTED)		CUMULATIVE V	OL (CY)
STATION	REAL STATION	DISTANCE	CUT	SALVAGED/UNUSABLE		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	СИТ	EXPANDED FILL	MASS ORDINATE
			CUT	PAVEMENT MATERIAL	FILL		PAVEMENT MATERIAL		1.00	1.25	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
4+28.75	428.75	0.00	44.39	0.00	14.57	0	0	0	0	0	0
4+50.00	450.00	21.25	43.33	0.00	14.36	35	0	11	35	14	21
4+75.00	475.00	25.00	47.94	0.00	11.97	42	0	12	77	29	48
4+78.80	478.80	3.80	50.83	0.00	15.76	7	0	2	84	31	53
4+84.19	484.19	5.39	44.62	0.00	0.00	10	0	2	94	34	60
5+15.85	515.85	0.00	40.88	0.00	0.00	0	0	0	94	34	60
5+20.00	520.00	4.15	45.16	0.00	30.02	7	0	2	101	36	65
5+25.00	525.00	5.00	47.82	0.00	26.95	9	0	5	110	43	68
5+50.00	550.00	25.00	44.44	0.00	23.49	43	0	23	153	71	82
5+70.00	570.00	20.00	44.25	0.00	22.20	33	0	17	186	93	94

COUNTY: CLARK

PROJECT NUMBER: 785	0-00-71
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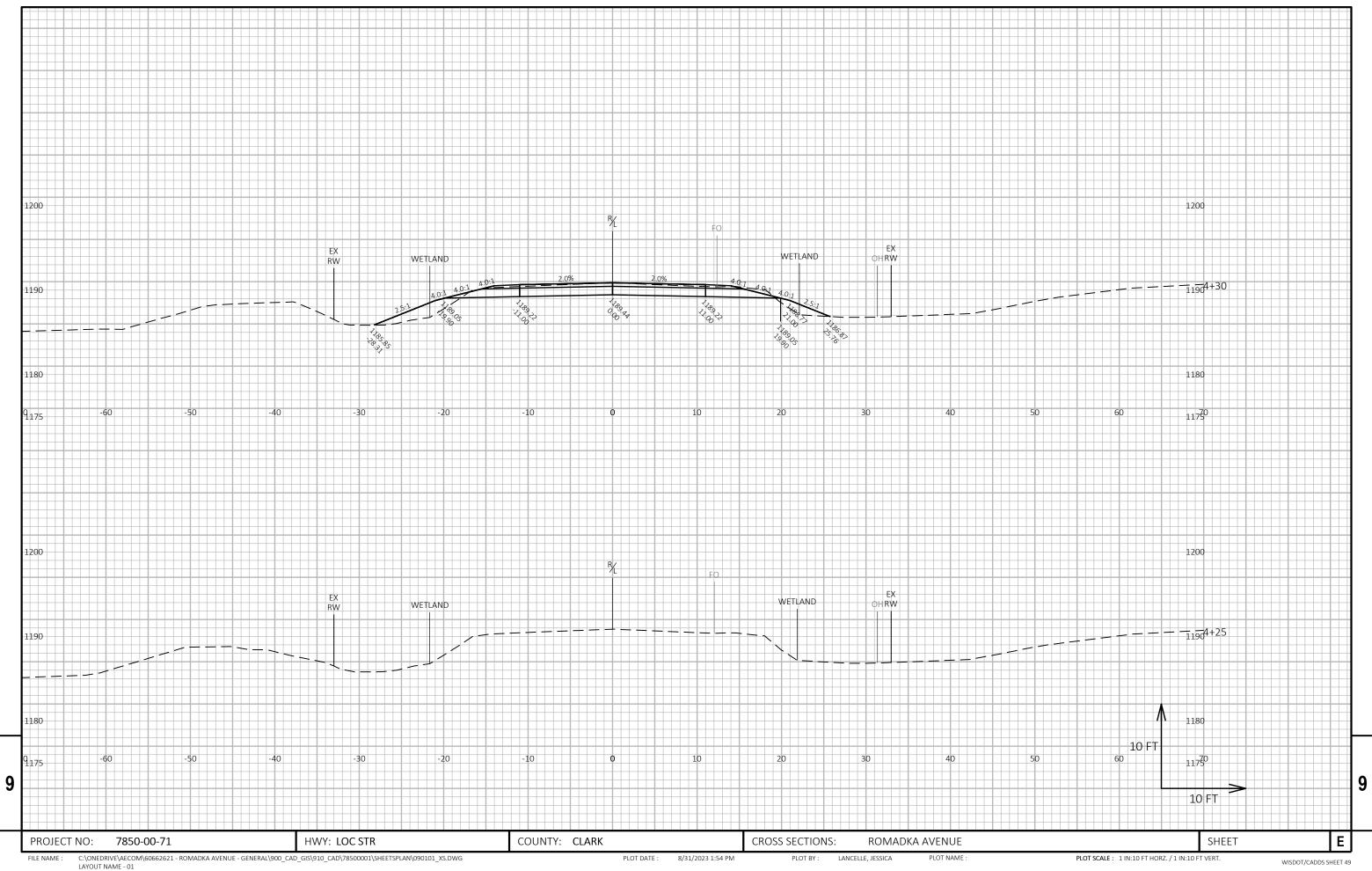
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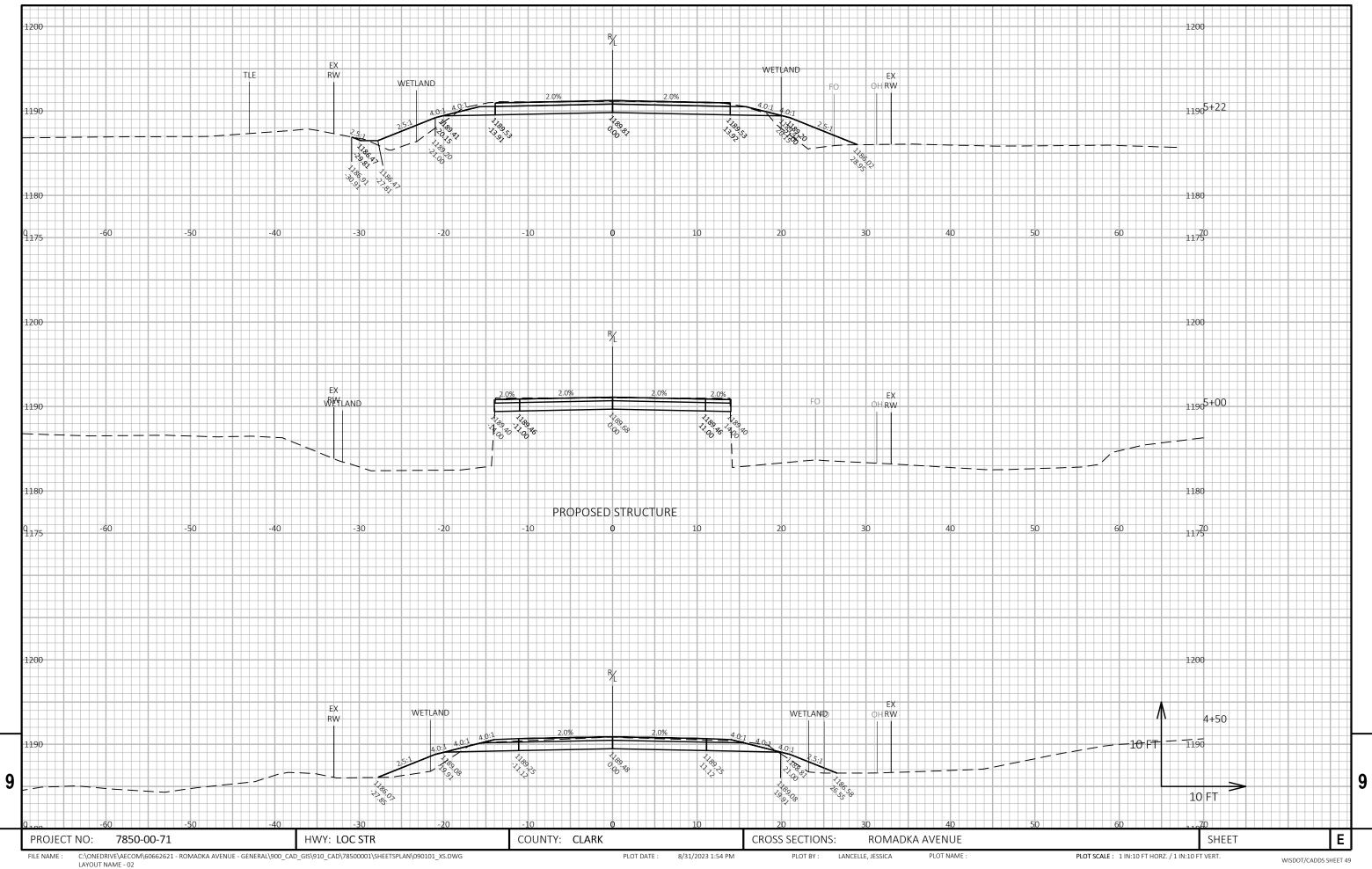
ORIGINATOR: JESSICA LANCELLE

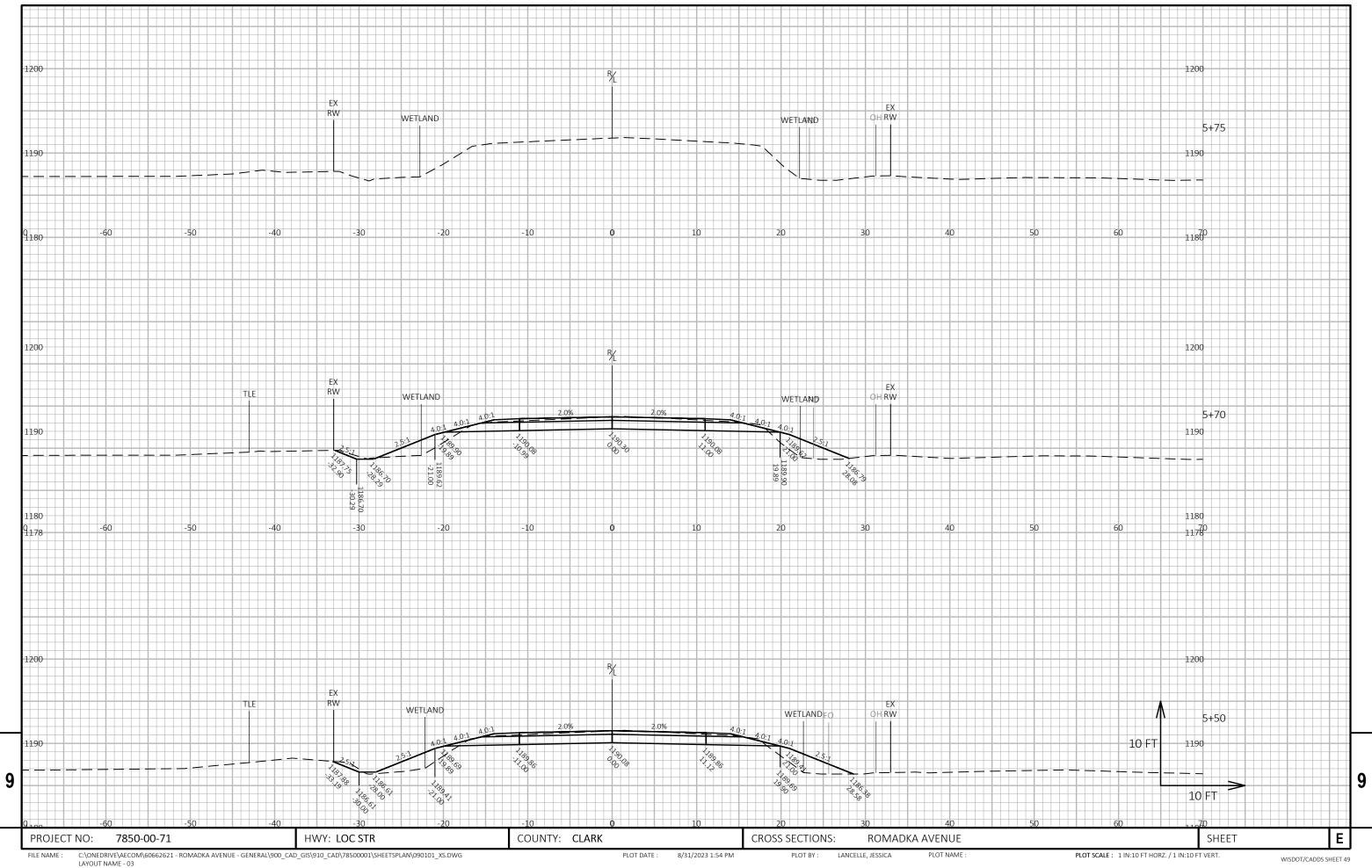
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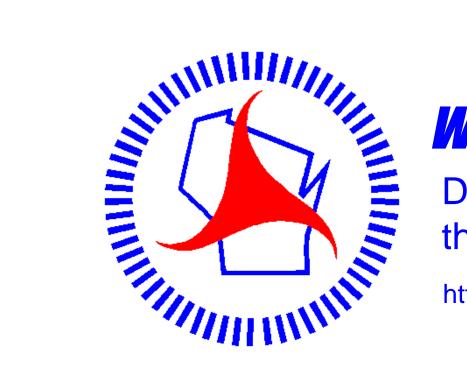
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WISDOT/CADDS SHEET 49



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