SUP PROJECT ID: 8436-00-70	JANUARY 2023 ORDER OF SHEETS Section No. 1 Tille Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities Section No. 3 Miscellaneous Quantities Section No. 5 Plan and Profile (Includes Erosion Control Section No. 6 Standard Detail Drawings Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data Section No. 9 Cross Sections TOTAL SHEETS = 38	DEPARTMENT OF WISCONSIN DEPARTMENT OF TRANSPORTATION PLAN OF PROPOSED IMPROVEMENT TRUSK, HORSESHOE LAKE ROAD MCDERMOTT CREEK BRIDGE B-54-0139 LOC STR RUSK COUNTY
O COUNTY:	PROJECT LOCATION         RUSK COUNTY         RUSK COUNTY         RUSK COUNTY         N	EGIN PROJECT STA 9+25 Y = 526,966.44 X = 729,329.88
RUSK	CORPORATE LIMITS  PROPERTY LINE  LOT LINE  LIMITED HIGHWAY EASEMENT  LOT  LIMITED HIGHWAY EASEMENT  LOT LIMITED HIGHWAY EASEMENT  LOT LIMITED HIGHWAY EASEMENT  LOT LIMITED HIGHWAY EASEMENT  LOT LIMITED HIGHWAY EASEMENT  LOT LIMITED HIGHWAY EASEMENT  LOT LIMITED HIGHWAY EASEMENT  LOT LIMITED HIGHWAY EASEMENT  LOT LIMITED HIGHWAY EASEMENT  LOT LIMITED HIGHWAY EASEMENT  LOT LIMITED  LIMITED  LOT LIMITED  LOT LIMITED  LOT LIMITED  LOT LIMITED  LOT LIMITED  LIMITED  LOT LIMITED  LO	FILE betwee manded as such matcher tary sewere moneted       Image: target

	FEDERAL PROJ	ECT
STATE PROJECT	PROJECT	CONTRACT
8436-00-70	WISC 2023173	1

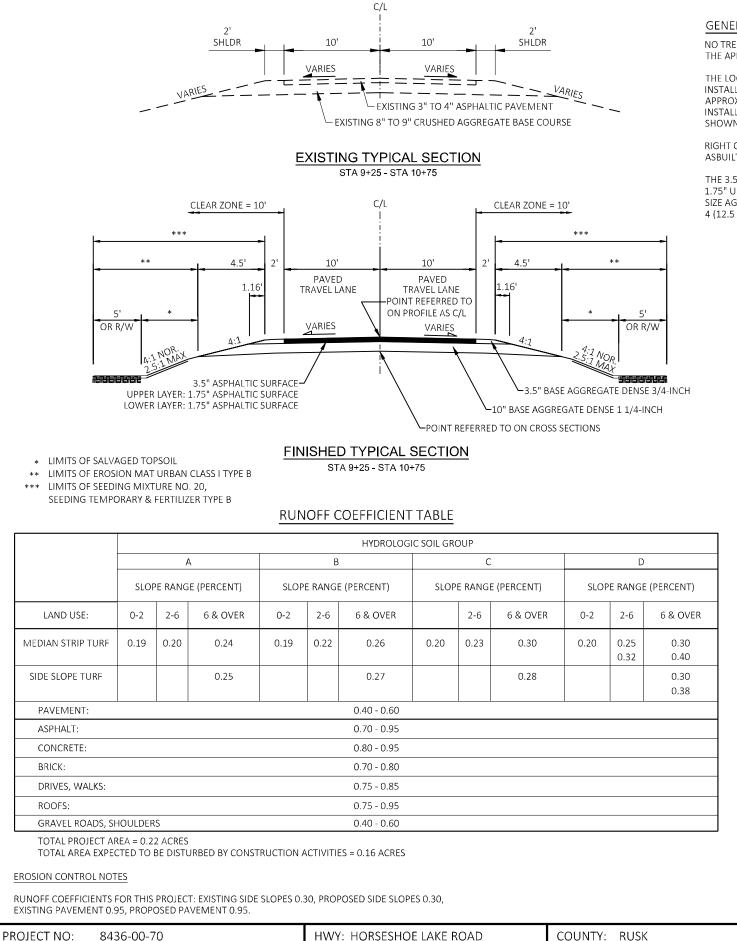
ACCEPTED FOR TOWN RUSK 7.13.22 (Date) ACCEPTED FOR COUNTY RUSK 13/20 Forlall (Date HWAY COMMISSIONER ORIGINAL PLANS PREPARED BY 146 North Central Ave, Marshfield WI 54449 (715) 384-2133 www.msa-ps.com © MSA Professional Services, Inc. SCONS SEAN M. SPROMBERG E 37771-008 SCHOFIELD, 4 界 WI STOMAL 7/13/2022 DATE: (Professional Engineer Signature) STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY MSA PROFESSIONAL SERVICES, INC. Surveyor MSA PROFESSIONAL SERVICES, INC. Designer PAULA GROOM Project Manager TOU YANG Regional Examiner TYLER RONGSTAD **Regional Supervisor** APPROVED FOR THE DEPARTMENT Faula Gron (Signature) DATE: 07/14/2022 Ε

<u> DJECT</u> 75 .03 81

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B-54-0139

ISCONSIN OUNTY, WN ARE GRID S. GRID DISTANCES ASED ON GEOID 12A.



#### **GENERAL NOTES**

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`OR C/L

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

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

RIGHT OF WAY LOCATIONS ARE BASED ON AVAILABLE ASBUILTS AND GIS.

THE 3.5" ASPHALTIC SURFACE SHALL CONSIST OF A 1.75" UPPER LAYER WITH NO.4 (12.5 MM) NOMINAL SIZE AGGREGATE AND A 1.75" LOWER LAYER WITH NO. 4 (12.5 MM) NOMINAL SIZE AGGREGATE.

#### MSA DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. SEAN SPROMBERG 146 NORTH CENTRAL AVE MARSHFIELD, WI 54449 715-304-0451 SSPROMBERG@MSA-PS.COM

#### DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES LEAH NICOL DNR WEST CENTRAL REGION HEADQUARTERS 1300 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 715-934-9014 LEAH.NICOL@WISCONSIN.GOV

#### COUNTY CONTACT

RUSK COUNTY HIGHWAY DEPARTMENT SCOTT R. EMCH N4711 HIGHWAY 27 LADYSMITH, WI 54848 715-532-2634 SEMCH@RUSKCOUNTYWI.US

#### WISDOT CONTACT

WISCONSIN DEPARTMENT OF TRANSPORTATION PAULA GROOM 718 W CLAIREMONT AVENUE EAU CLAIRE, WI 54701 715-579-6776 PAULA.GROOM@DOT.WI.GOV

#### STANDARD ABBREVIATIONS

	<u> </u>	
ACRE	F/L	FLOW LINE
AGGREGATE	FT	FOOT
ANGLE	GN	GRID NORTH
ASPHALTIC	HR	HANDICAP RAMP
ASPHALT CEMENT	HT	HEIGHT
AVERAGE DAILY TRAFFIC	CWT	HUNDREDWEIGHT
BALLED AND BURLAPPED	HYD	HYDRANT
BENCH MARK	IN DIA	INCH DIAMETER
CATCH BASIN	INL	INLET
CENTER LINE	ID	INSIDE DIAMETER
CENTER TO CENTER	I.	INTERSECTION ANGLE
CONCRETE	IE	INVERT ELEVATION
COUNTY	IP	IRON PIPE OR PIN
COUNTY TRUNK HIGHWAY	JCT	JUNCTION
CUBIC YARD	L	LENGTH OF CURVE
CULVERT	LF	LINEAR FOOT
CULVERT PIPE	LC	LONG CHORD OF CURV
CULVERT PIPE	LCB	LONG CHORD BEARING
REINFORCED CONCRETE	LS	LUMP SUM
CURB AND GUTTER	MH	MANHOLE
DEGREE OF CURVE	Ν	NORTH
DESIGN HOUR VOLUME	Y	NORTH GRID COORDIN
DIAMETER	OE	OUTLET ELEVATION
DISTRICT	OL	OUTLOT
DRIVEWAY	OD	OUTSIDE DIAMETER
EAST	ОН	OVERHEAD LINES
EAST GRID COORDINATE	PAVT	PAVEMENT
EASTBOUND	PLE	PERMANENT LIMITED
ELECTRIC	PC	POINT OF CURVATURE
ELEVATION	PI	POINT OF INTERSECTIO
EMBANKMENT	PT	POINT OF TANGENCY
ENDWALL	PCC	PORTLAND CEMENT CO
EQUIVALENT SINGLE	LB	POUND
AXLE LOADS	PE	PRIVATE ENTRANCE
EXCAVATION	R OR RAD	RADIUS
EXCAVATION BELOW	RR	RAILROAD
SUBGRADE	R	RANGE
EXISTING	~ OR R/L	REFERENCE LINE
EXPANSION	REQD	REQUIRED
FACE TO FACE	RT	RIGHT
FERTILIZER	R / W	RIGHT-OF-WAY
FIELD ENTRANCE	RD	ROAD
GENERAL NOTES & TYPICAL	SECTIONS	

FILE NAME G:\06\06747\06747029\CADD\SHEETSPLAN\020101-GN.DWG LAYOUT NAME - 020101-gn

2

PLOT DATE : 7/17/2022 2:01 PM

SHAWN DOLENS PLOT BY :

PLOT NAME :

#### UTILITY CONTACTS COMMUNICATIONS 2 BEVCOMM RANDY MONNIER N3767 4TH ST WEYERHAUSER, WI 54895 715-353-2434 (OFFICE) 715-492-5029 (MOBILE) RMONNIER@BEVCOMM.COM ELECTRIC BARRON ELECTRIC COOPERATIVE JEFF NELSON 1434 STH 25 N BARRON, WI 54812 715-537-3171 (OFFICE) 715-418-1167 (MOBILE) JNELSON@BARRONELECTRIC.COM \* NOT A DIGGERS HOTLINE MEMBER **Fill** or (800)242-8511 Dial www.DiggersHotline.com SALV SALVAGED SAN SANITARY SEWER SECT SECTION SHLDR SHOULDER SW SIDEWALK SOUTH S SB SOUTHBOUND SPECS SPECIFICATIONS SQ SQUARE SF OR SQ FT SQUARE FEET IGLE SY SQUARE YARD SSPRC STORM SEWER PIPE REINFORCED CONCRETE STD STANDARD SDD STANDARD DETAIL DRAWINGS STH STATE TRUNK HIGHWAYS STA STATION **URVE** ARING SS STORM SEWER TANGENT TEL TELEPHONE TEMP TEMPORARY RDINATE TLE TEMPORARY LIMITED EASEMENT TON TC TOP OF CURB ΤN TOWN TRANS TRANSITION TRUCKS (percent of) TED EASEMENT TYP TYPICAL UNCL UNCLASSIFIED URE USH UNITED STATES HIGHWAY CTION VAR VARIABLE NT CONCRETE VERT VERTICAL VC VERTICAL CURVE VOL VOLUME WM WATER MAIN WV WATER VALVE

SHEET

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YARD

WESTBOUND

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WB

WISDOT/CADDS SHEET 42

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## **Estimate Of Quantities**

					8436-00-70	_
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	1.000	1.000	
0004	201.0205	Grubbing	STA	1.000	1.000	
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-54-116	EACH	1.000	1.000	
8000	205.0100	Excavation Common	CY	101.000	101.000	
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-54-139	EACH	1.000	1.000	
0012	208.0100	Borrow	CY	5.000	5.000	
0014	210.1500	Backfill Structure Type A	TON	250.000	250.000	
0016	213.0100	Finishing Roadway (project) 01. 8436-00-70	EACH	1.000	1.000	
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	20.000	20.000	
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	220.000	220.000	
0022	455.0605	Tack Coat	GAL	22.000	22.000	
0024	465.0105	Asphaltic Surface	TON	60.000	60.000	
0026	502.0100	Concrete Masonry Bridges	CY	135.000	135.000	
0028	502.3200	Protective Surface Treatment	SY	153.000	153.000	
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	3,240.000	3,240.000	
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	14,420.000	14,420.000	
0034	513.4061	Railing Tubular Type M	LF	126.000	126.000	
0036	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000	
0038	550.2106	Piling CIP Concrete 10 3/4 X 0.365-Inch	LF	480.000	480.000	
0040	606.0300	Riprap Heavy	CY	231.000	231.000	
0040	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180.000	
0042	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8436-00-70	EACH	1.000	1.000	
0044	619.1000	Mobilization	EACH	1.000	1.000	
0040	624.0100	Water	MGAL	4.800	4.800	
0048	625.0100		SY	325.000	325.000	
0052	628.1504	Topsoil Silt Fence	LF	240.000	240.000	
			LF			
0054	628.1520	Silt Fence Maintenance	EACH	240.000 4.000	240.000 4.000	
0056	628.1905	Mobilizations Erosion Control	EACH			
0058	628.1910	Mobilizations Emergency Erosion Control		2.000	2.000	
0060	628.2008	Erosion Mat Urban Class I Type B	SY	325.000	325.000	
0062	628.6005	Turbidity Barriers	SY	128.000	128.000	
0064	628.7504	Temporary Ditch Checks	LF	20.000	20.000	
0066	628.7570	Rock Bags	EACH	60.000	60.000	
0068	629.0210	Fertilizer Type B	CWT	0.210	0.210	
0070	630.0120	Seeding Mixture No. 20	LB	13.000	13.000	
0072	630.0200	Seeding Temporary	LB	13.000	13.000	
0074	630.0500	Seed Water	MGAL	10.000	10.000	
0076	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0078	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0080	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0082	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0084	642.5001	Field Office Type B	EACH	1.000	1.000	
0086	643.0420	Traffic Control Barricades Type III	DAY	1,260.000	1,260.000	
0088	643.0705	Traffic Control Warning Lights Type A	DAY	1,960.000	1,960.000	
0090	643.0900	Traffic Control Signs	DAY	980.000	980.000	
0092	643.5000	Traffic Control	EACH	1.000	1.000	
0094	645.0111	Geotextile Type DF Schedule A	SY	52.000	52.000	
0096	645.0120	Geotextile Type HR	SY	409.000	409.000	
0098	650.4500	Construction Staking Subgrade	LF	116.000	116.000	

## 10/19/2022 12:23:57

Page 1

			E	stimate Of Q	uantities	
					8436-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0100	650.5000	Construction Staking Base	LF	116.000	116.000	
0102	650.6501	Construction Staking Structure Layout (structure) 01. B-54-139	EACH	1.000	1.000	
0104	650.9911	Construction Staking Supplemental Control (project) 01. 8436-00-70	EACH	1.000	1.000	
0106	650.9920	Construction Staking Slope Stakes	LF	116.000	116.000	
0108	690.0150	Sawing Asphalt	LF	44.000	44.000	
0110	715.0502	Incentive Strength Concrete Structures	DOL	810.000	810.000	
0112	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000	
0114	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000	
0116	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	

## 10/19/2022 12:23:57

Page 2

-	STATION	ТО	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	 STATION	ТО	STATION	LOCATION	205.0100 EXCAVATION COMMON CY	UNEXPANDED FILL CY	EXPANDED FILL (1) CY	MASS ORDINATE +/- (2) CY	208.0100 BORROW CY
3	10+00	-	10+75	PROJECT TOTAL 0010	1	1	9+25	-	9+82	MAINLINE	55	46	60	-5	5
							10+18	-	10+75	MAINLINE	46	14	18	28	-28
										UNUSABLE PAVEMENT (3)				-28	28
										TOTAL 0010	101			-5	5

(1) EXPANDED FILL FACTOR = 1.30

(2) THE MASS ORDINATE + OR - QUANTITY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION.
 MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
 (3) EXISTING PAVEMENT BASED ON AVERAGE THICKNESS OF 3.5"

station	ТО	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL	STATION	то	STATION	LOCATION	455.0605 TACK COAT GAL	465.0 ASPHA SURF TO
9+25 10+18	-	9+82 10+75	PROJECT PROJECT TOTAL 0010	10 10 20	110 110 220	2.4 2.4 4.8	9+25 10+18	-	9+82 10+75	MAINLINE MAINLINE TOTAL 0010	11 11 22	3) 3) 6)

				625.0100	628.2008 EROSION MAT	628.7504	628.7570	629.0210	630.0120	630.0200	630.0500
					URBAN CLASS I	TEMPORARY			SEEDING MIXTURE	SEEDING	
				TOPSOIL	TYPE B	DITCH CHECKS	ROCK BAGS	FERTILIZER TYPE B	NO. 20	TEMPORARY	SEED WATER
STATION	TO	STATION	LOCATION	SY	SY	LF	EACH	CWT	LB	LB	MGAL
9+25	-	9+70	RT	95	95		15	0.05	3	3	2
9+25	-	9+67	LT	100	100		15	0.02	1	1	1
10+31	-	10+75	LT	30	30		15	0.06	3	3	2
10+30	-	10+75	RT	80	80		15	0.06	3	3	2
			UNDISTRIBUTED	20	20	20		0.02	3	3	3
			TOTAL 0010	325	325	20	60	0.21	13	13	10

PROJECT NO: 8436-00-70	HWY: HORSESHOE LAKE ROAD	COUNTY: RUSK		MISCELLANEOUS QUANTITIES	6
FILE NAME : N:\PDS\\030200_mq.pptx			PLOT DATE: July 27, 2022	PLOT BY : A.R.H.	PLOT NAME :

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				628.1504	628.1520	628.1905	628.1910 MOBILIZATIONS
STATION	ТО	STATION	LOCATION	SILT FENCE LF	SILT FENCE MAINTENANCE LF	MOBILIZATIONS EROSION CONTROL EACH	EMERGENCY EROSION CONTROL EACH
9+25	_	9+68	RT	60	60		
9+25	-	9+71	LT	60	60		
10+29	-	10+75	LT	60	60		
10+29	-	10+75	RT	60	60		
			PROJECT			4	2
			TOTAL 0010	240	240	4	2

		638.3000	638.2602	637.2230	634.0612		
		REMOVING			POSTS WOOD		
		SMALL SIGN	REMOVING	SIGNS TYPE II	4X6-INCH X 12-		
		SUPPORTS	SIGNS TYPE II	<b>REFLECTIVE F</b>	FT		
LOCATION	REMARKS	EACH	EACH	SF	EACH	LOCATION	STATION
PROJECT	W5-52R 12"X36"	1	1	2	1	DT	9+69
TOTAL 0010		l	T	5	Ţ	RT	
	W5-52L 12"X36"	1	1	3	1	LT	9+71
	W5-52L 12"X36"	1	1	3	1	RT	10+29
	W5-52R 12"X36"	1	1	3	1	LT	10+31
		4	4	12	4	TOTAL 0010	

				606.0300	645.0120 GEOTEXTILE TYPE
				RIPRAP HEAVY	HR
 STATION	ТО	STATION	LOCATION	CY	SY
10+31	-	10+75	LT	45	92
			TOTAL 0010	45	92

PROJECT NO: 8436-00-70	HWY: HORSESHOE LAKE ROAD	COUNTY: RUSK		MISCELLANEOUS QUANTITIES	
FILE NAME : N:\PDS\\030200_mq.pptx			PLOT DATE : July 27, 2022	PLOT BY : A.R.H.	PLOT NAME :

	628.6005
	TURBIDITY
	BARRIERS
LOCATION	SY
PROJECT	128
TOTAL 0010	128

643.0420	643.0705	643.0900
TRAFFIC CONTROL	TRAFFIC CONTROL	
BARRICADES TYPE	WARNING LIGHTS	TRAFFIC CONTROL
III	TYPE A	SIGNS
DAY	DAY	DAY
1,260	1,960	980
1,260	1,960	980

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SHEEL	

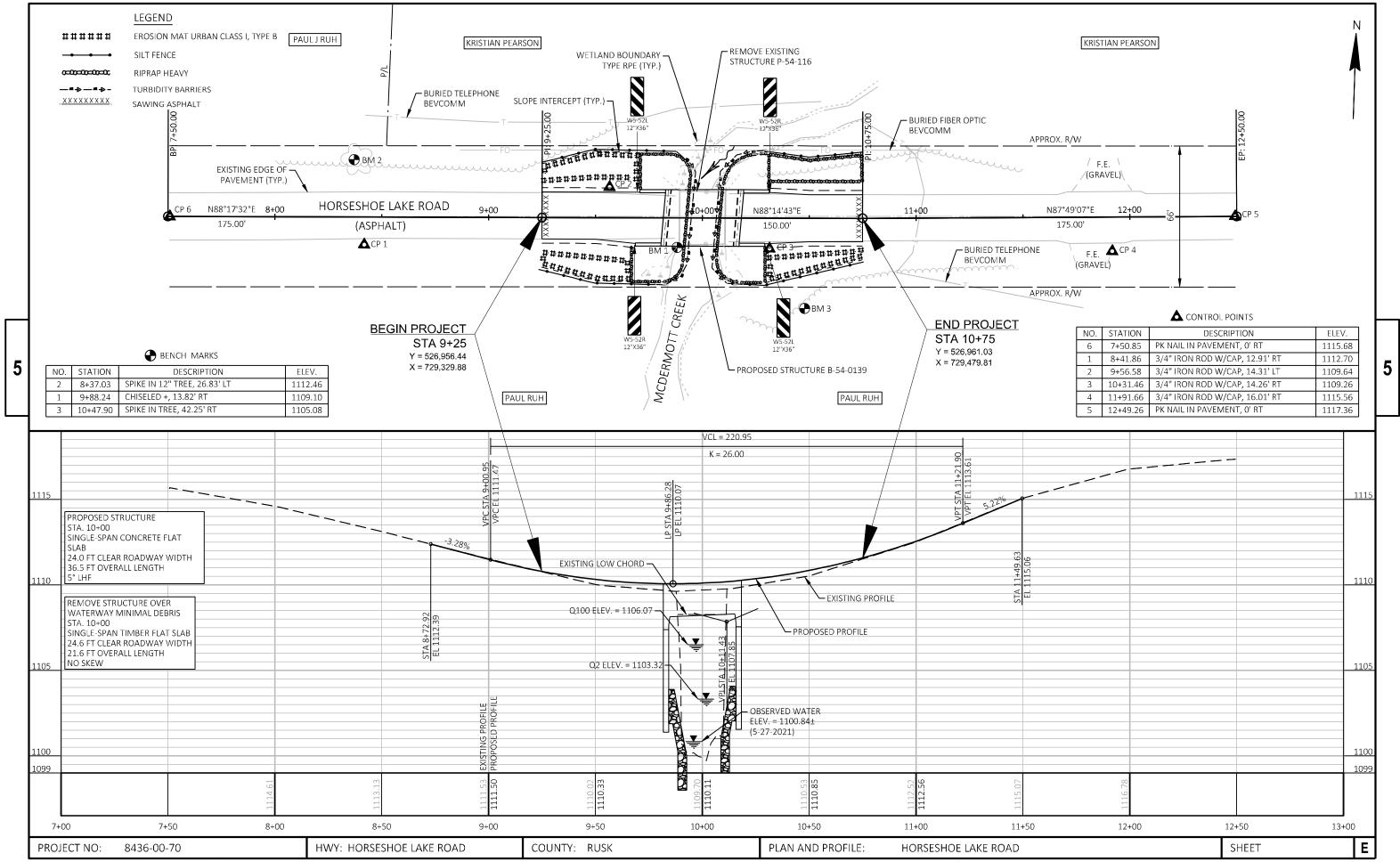
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				650.4500	650.5000	650.9920	650.6501	650.9911		
							CONSTRUCTION	CONSTRUCTION		
							STAKING	STAKING		
							STRUCTURE	SUPPLEMENTAL		
				CONSTRUCTION		CONSTRUCTION	LAYOUT	CONTROL		
				STAKING	CONSTRUCTION	STAKING SLOPE	(STRUCTURE) (01.	(PROJECT) (01.		
				SUBGRADE	STAKING BASE	STAKES	B-54-0139)	8436-00-70)		
 STATION	ТО	STATION	LOCATION	LF	LF	LF	EA	EA	_	STATION
			MAINLINE							
9+25	-	9+82	MAINLINE	58	58	58				9+25
10+18	-	10+75	MAINLINE	58	58	58				10+75
			PROJECT				1	1		
			TOTAL 0010	116	116	116	1	1		

PROJECT NO: 8436-00-70	HWY: HORSESHOE LAKE ROAD	COUNTY: RUSK		MISCELLANEOUS QUANTITIES	5
FILE NAME : N:\PDS\\030200_mq.pptx			PLOT DATE: October 6, 2022	PLOT BY : A.R.H.	PLOT NAME :

	690.0150
	SAWING ASPHALT
LOCATION	LF
BEGIN PROJECT	22
END PROJECT	22
TOTAL 0010	44

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01122	•

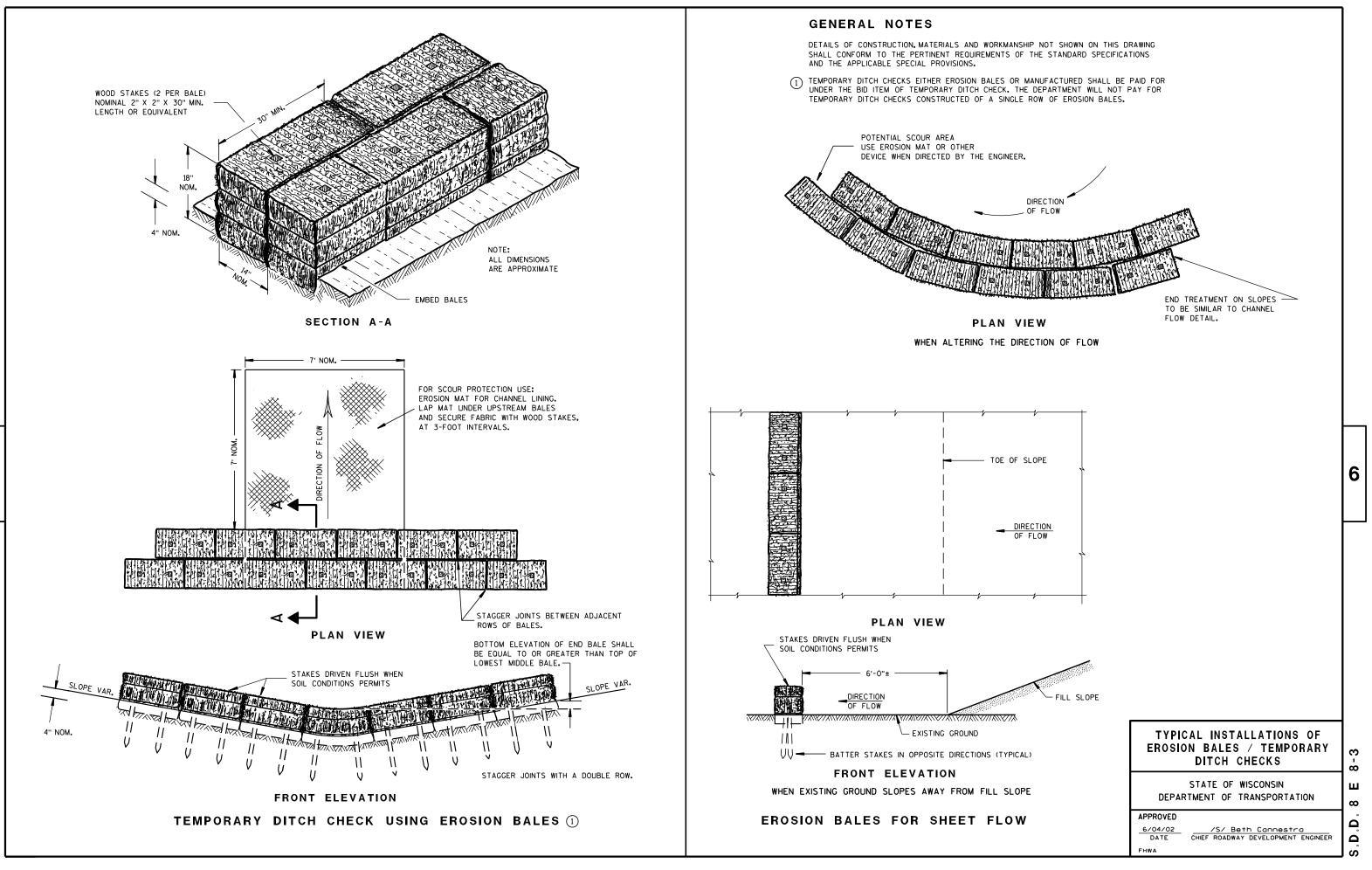


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IS PLOT NAME :

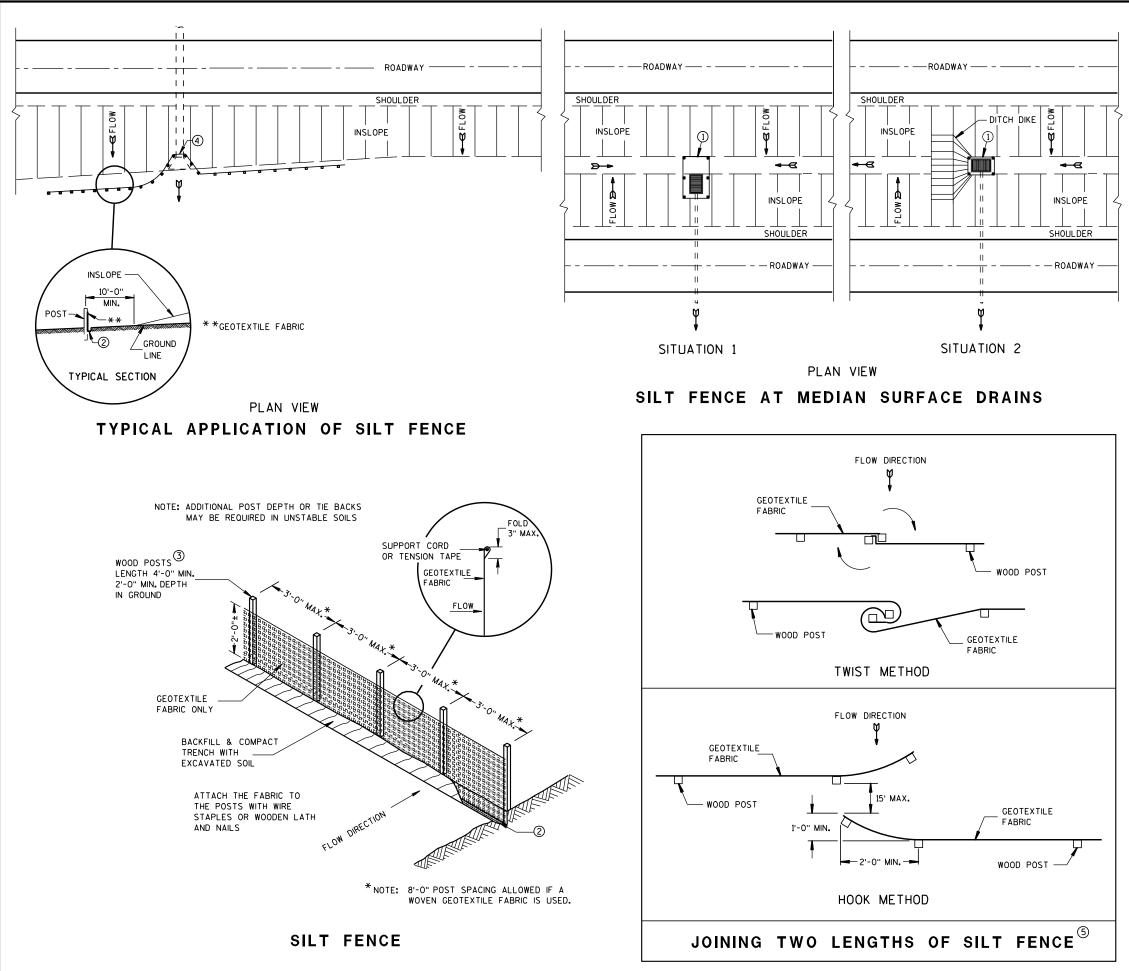
# Standard Detail Drawing List

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)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRI CADES AND SIGNS FOR VARIOUS CLOSURES
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



S,D,D, 8 E 8

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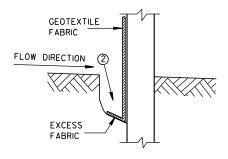
S.D.D. 8 E 9

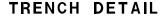
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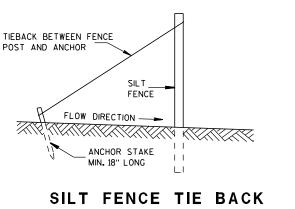
## **GENERAL NOTES**

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

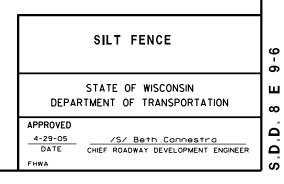
- $\bigcirc$  horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
-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

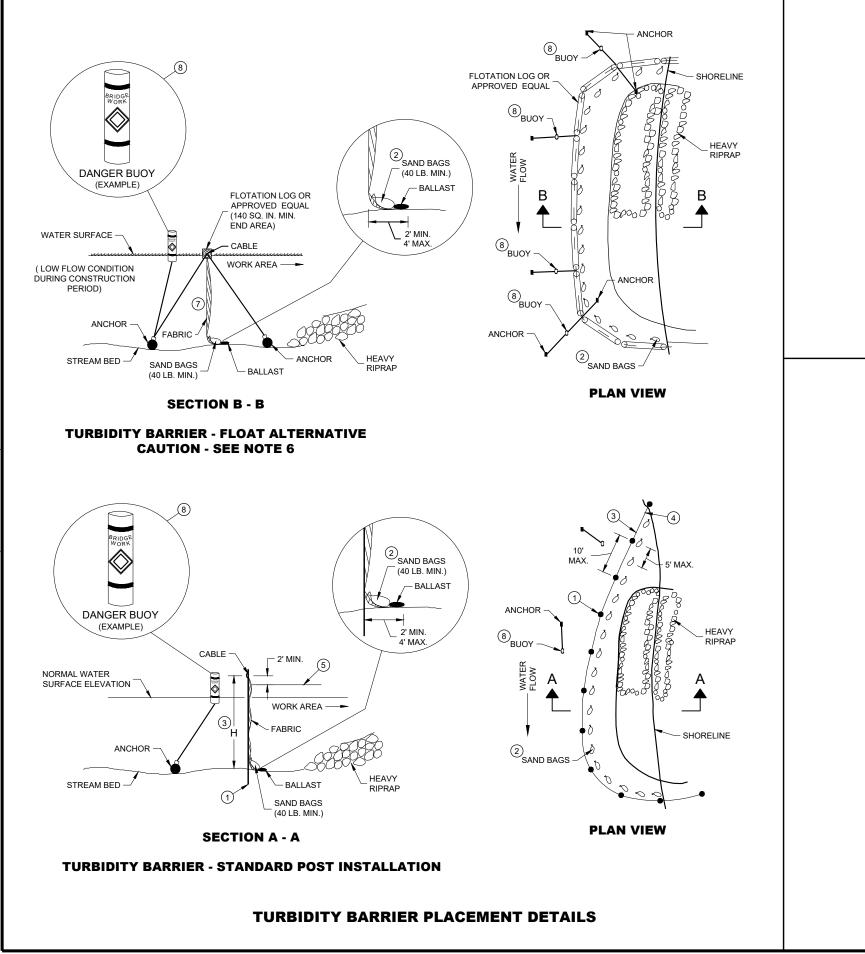




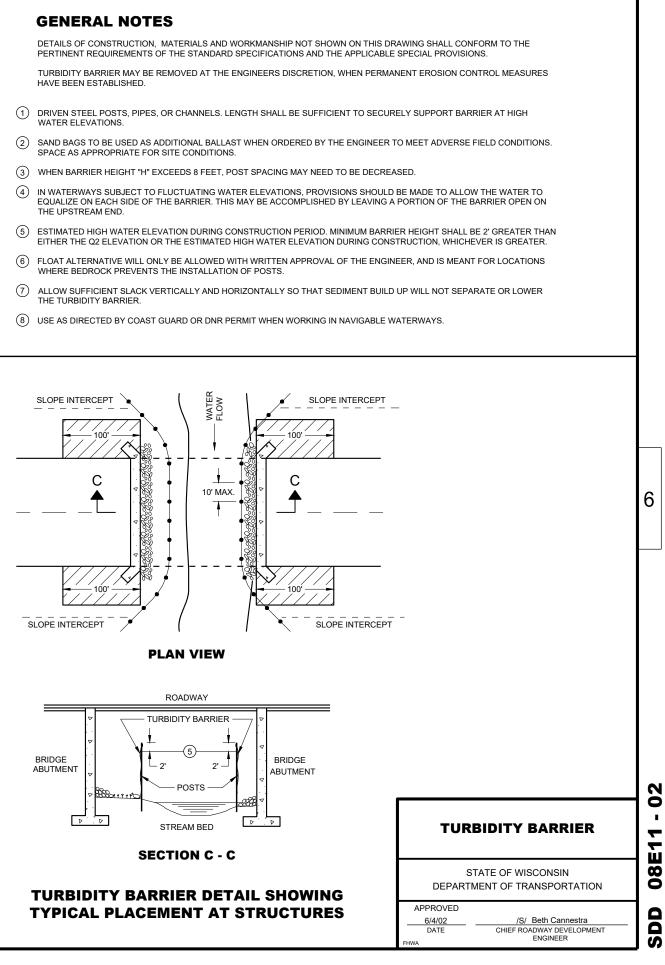


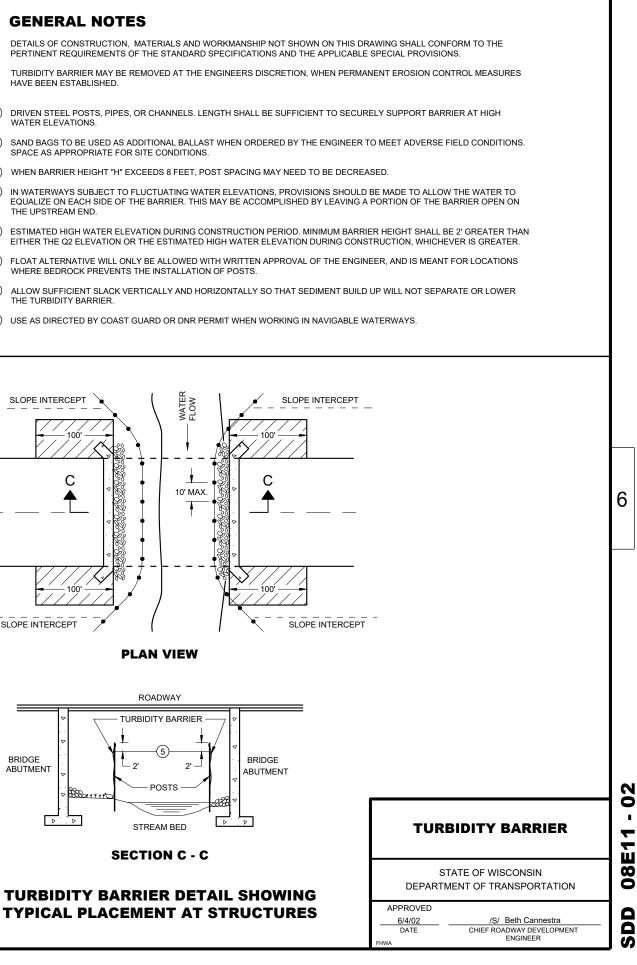
(WHEN REQUIRED BY THE ENGINEER)



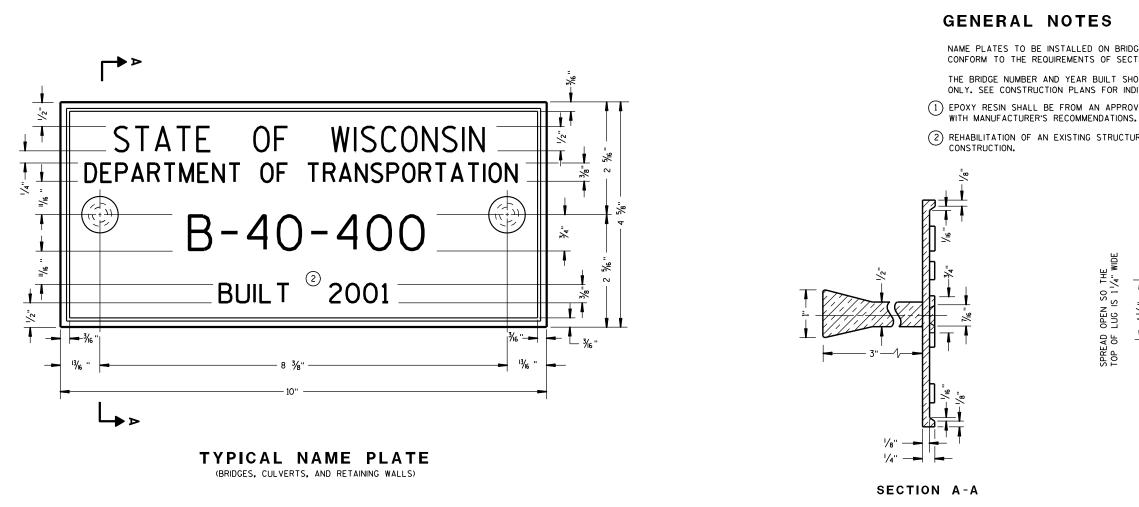


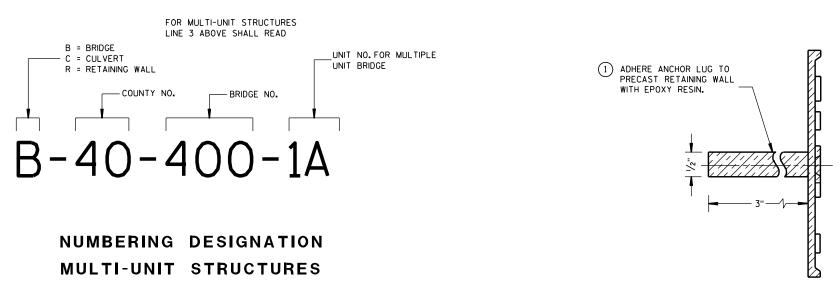
- WATER ELEVATIONS.





SDD 08E -. 02



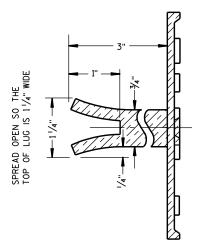


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

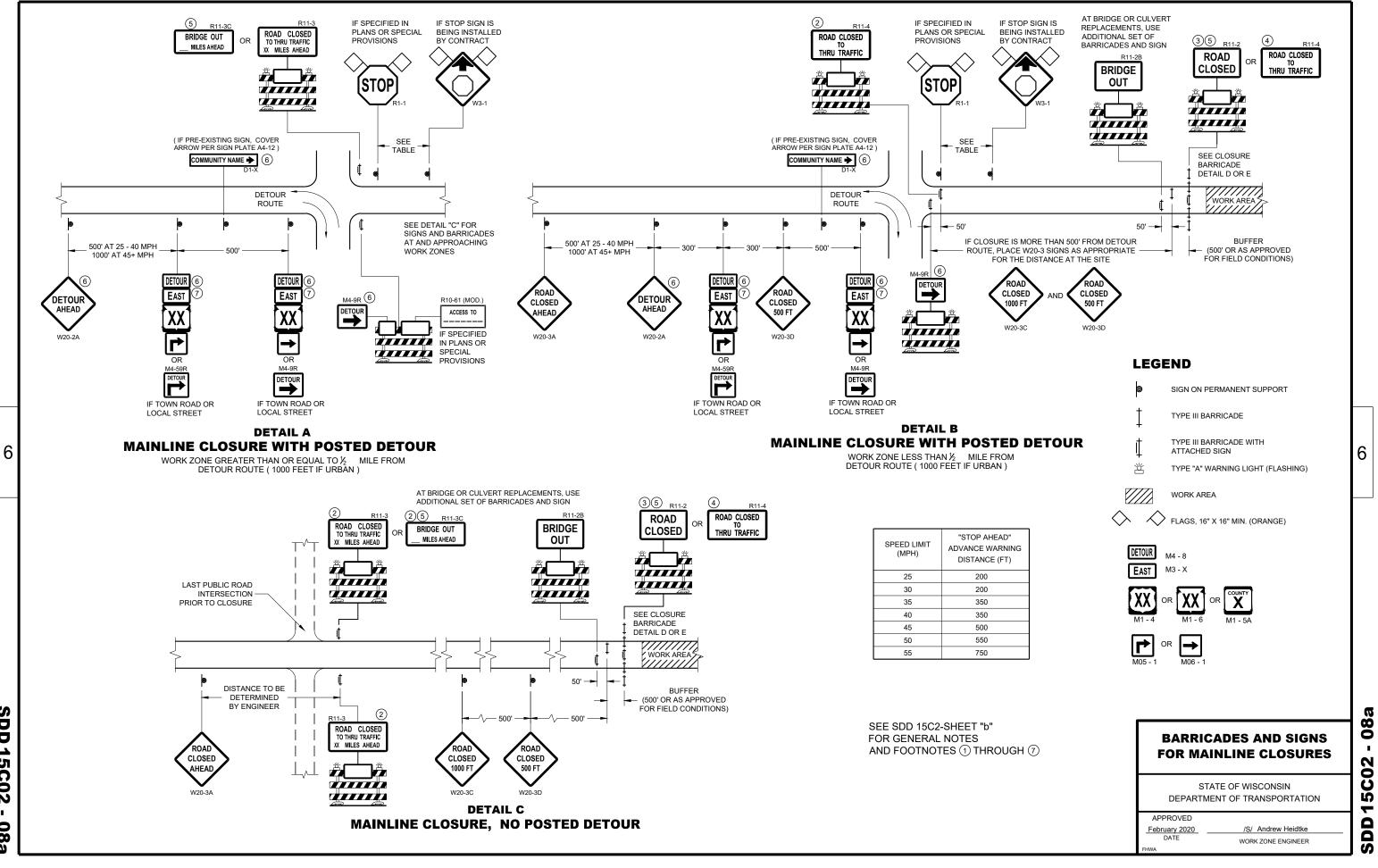
#### APPROVED

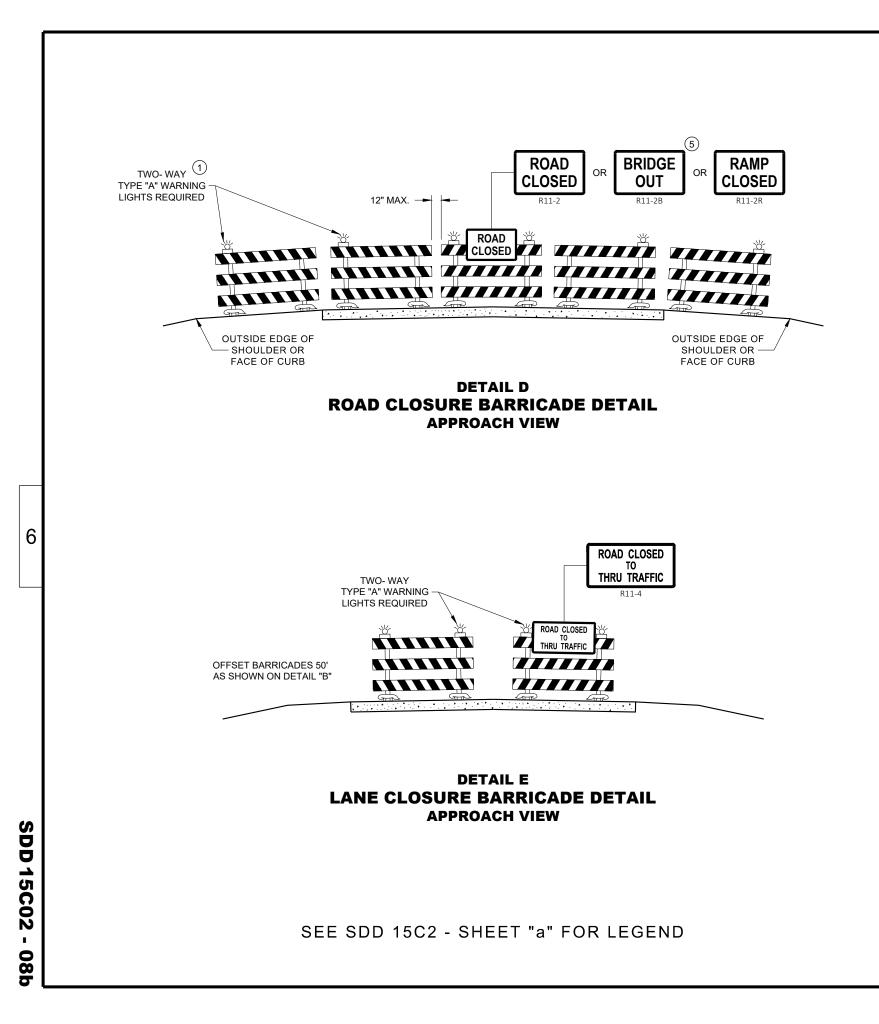
3/26/10 DATE FHWA

/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.

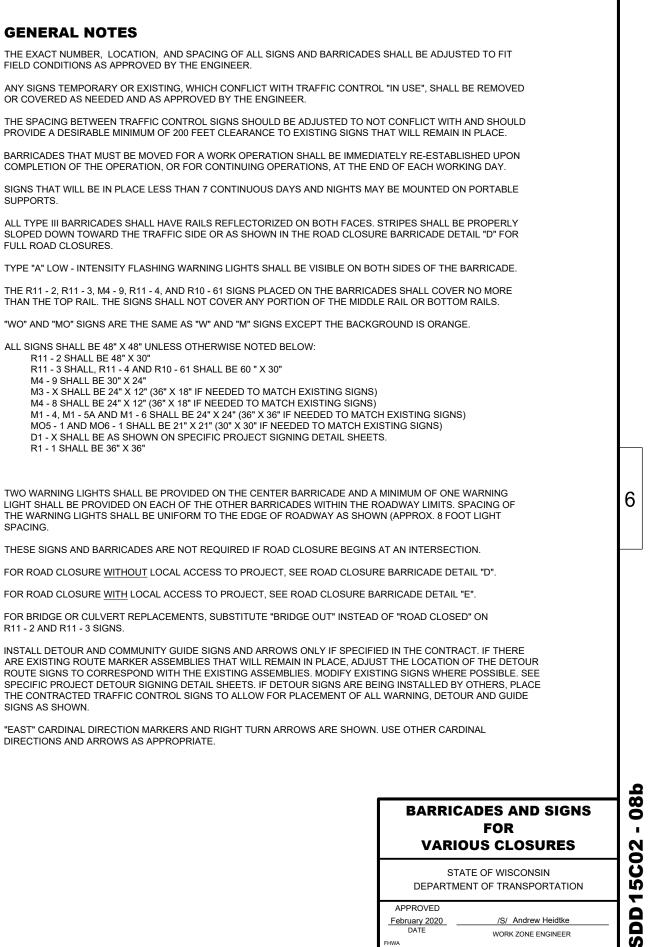
SUPPORTS.

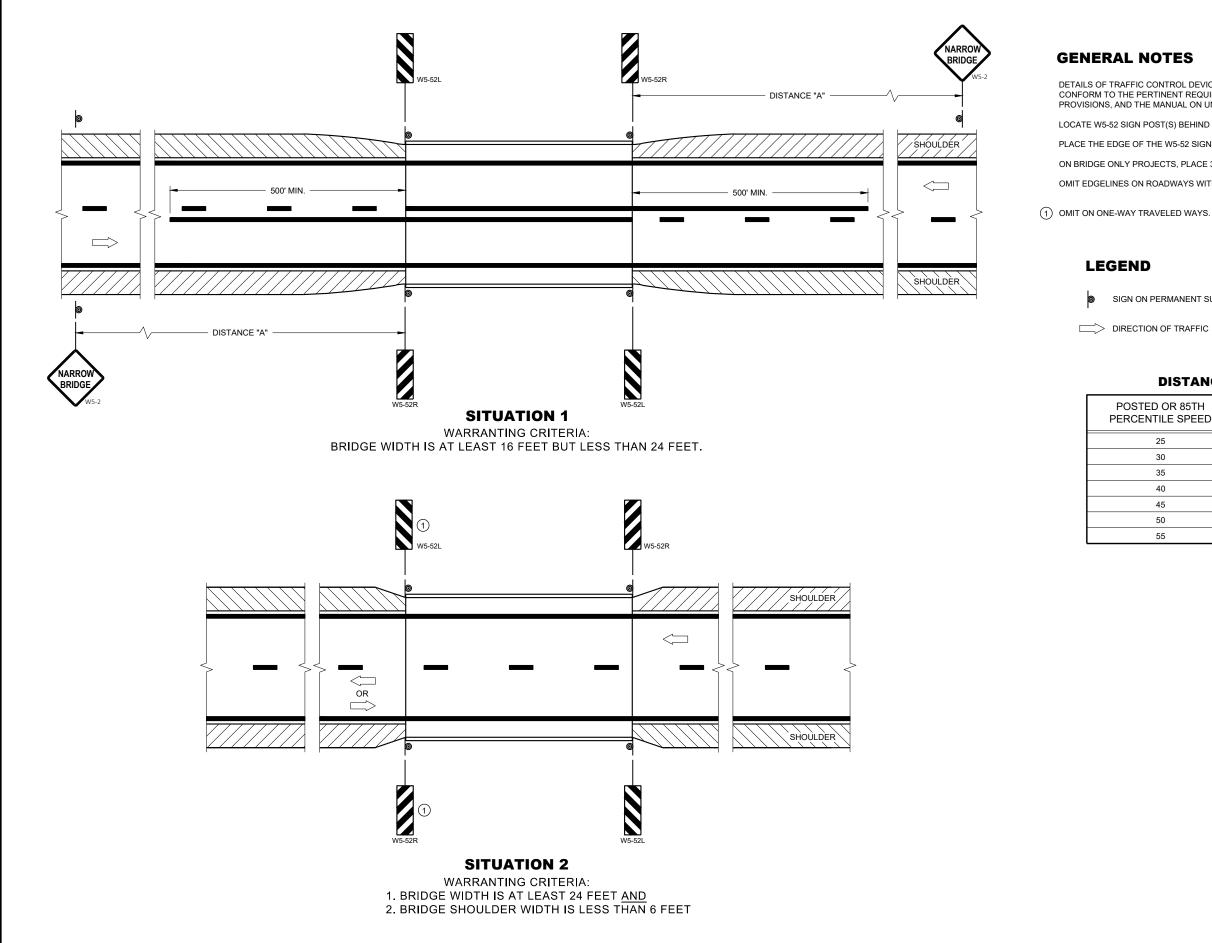
FULL ROAD CLOSURES.

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)
  - MO5 1 AND MO6 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
  - D1 X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1 - 1 SHALL BE 36" X 36"
- (1)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.





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'

6

# 0 7 **C**06 Ñ -۵ SD

## SIGNING AND MARKING FOR TWO LANE BRIDGES

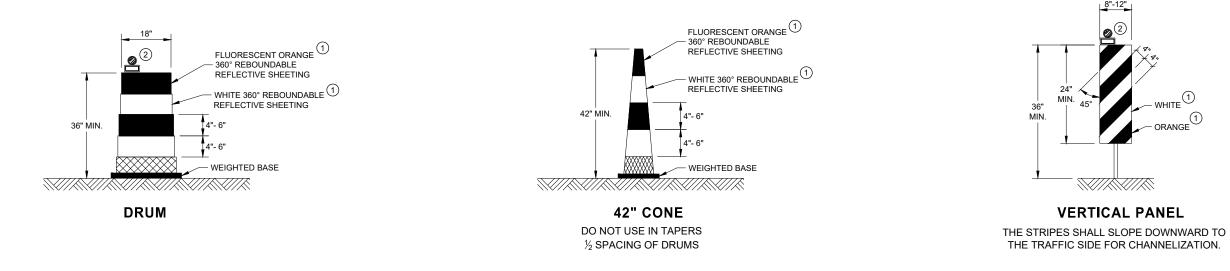
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

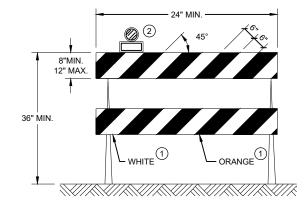
APPROVED May 2022 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

### **GENERAL NOTES**

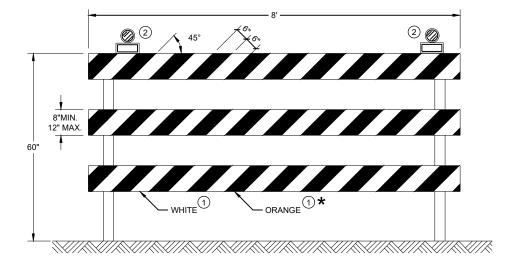
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





**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.

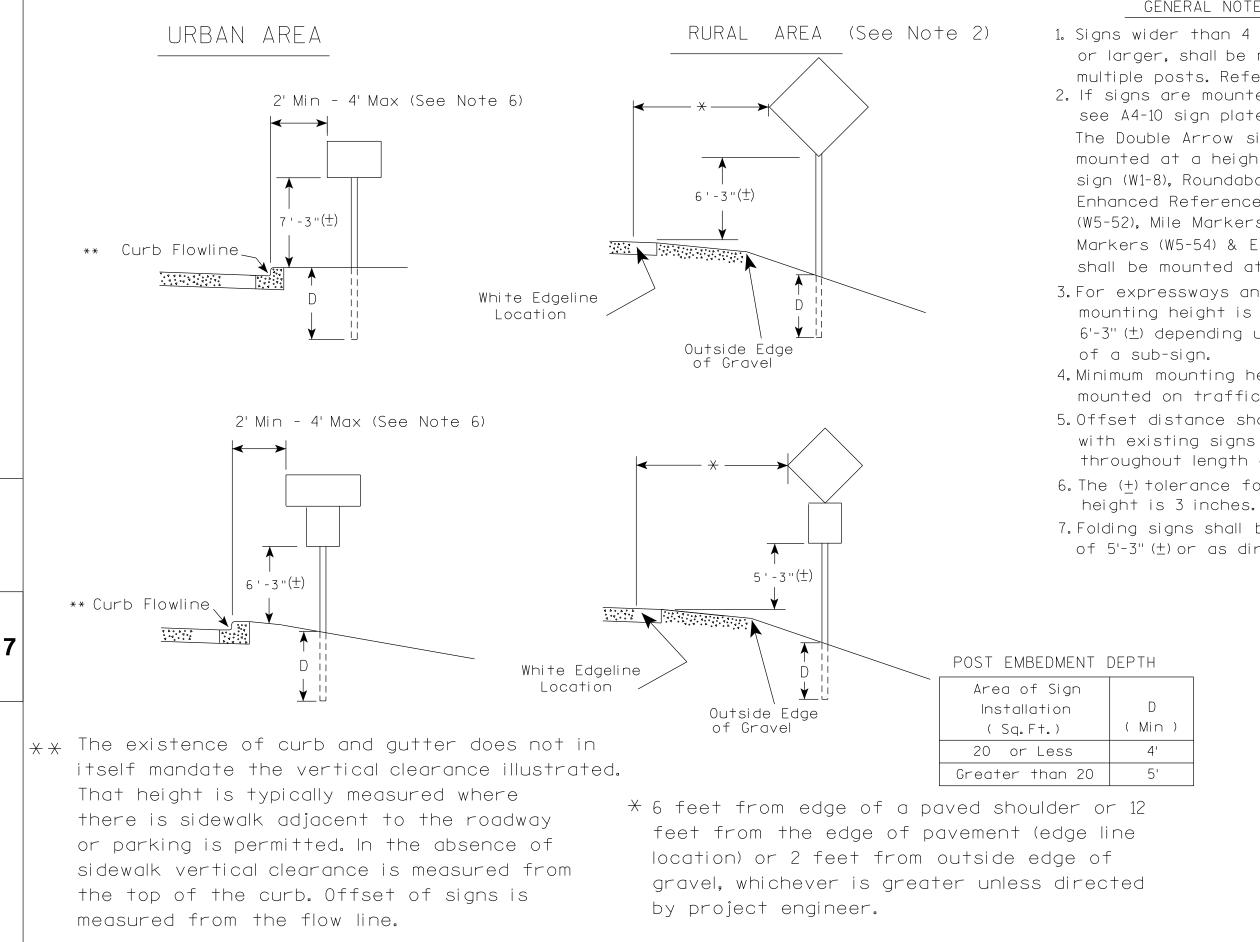
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## **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES** AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

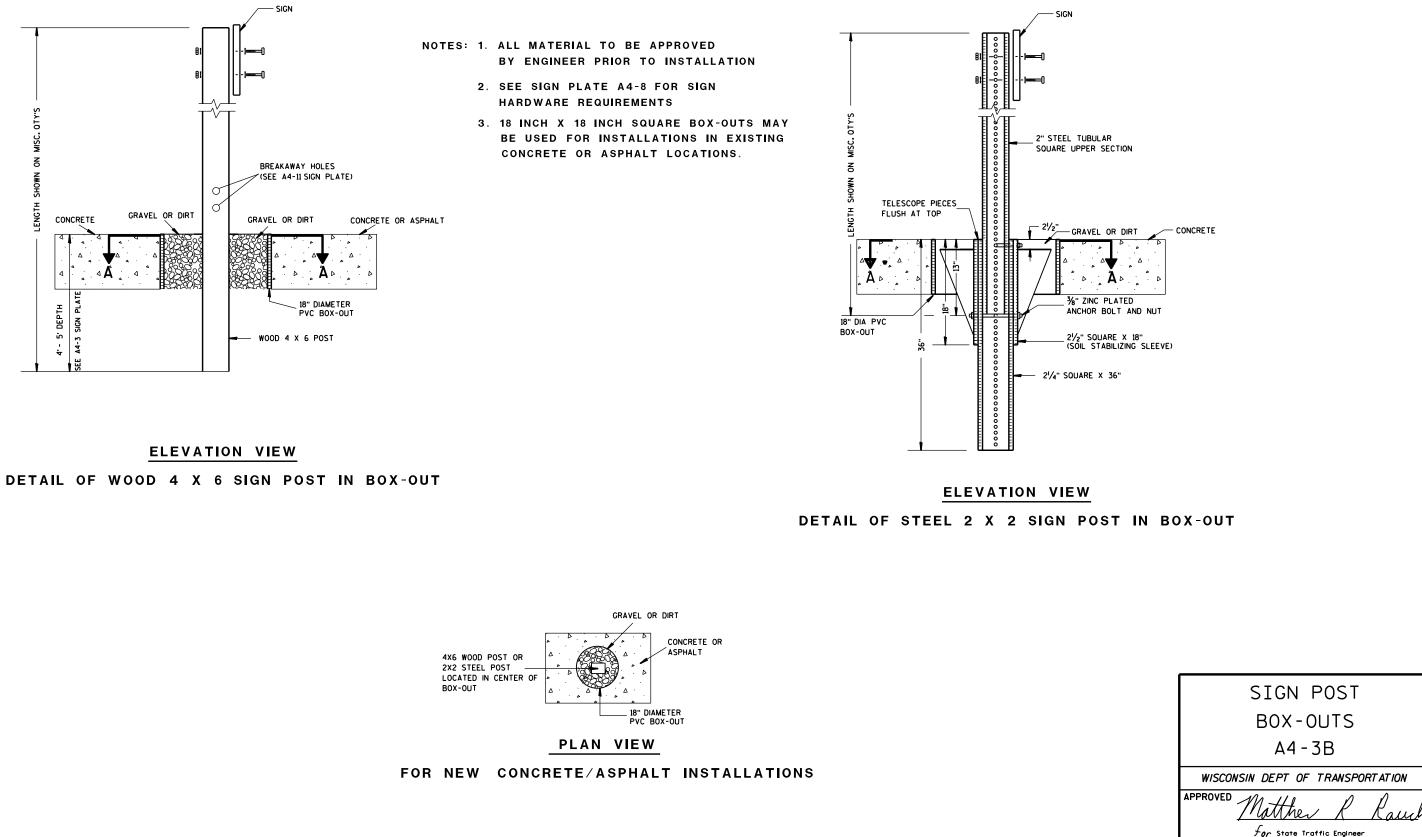


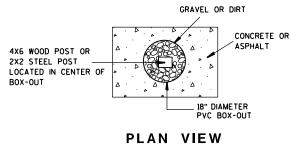
PROJECT NO:	HWY:	COUNTY:			
			DI AT DITE : 47 HUN 0000 4 4	DI OT DY IN IO	DLOT NAME -

## 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





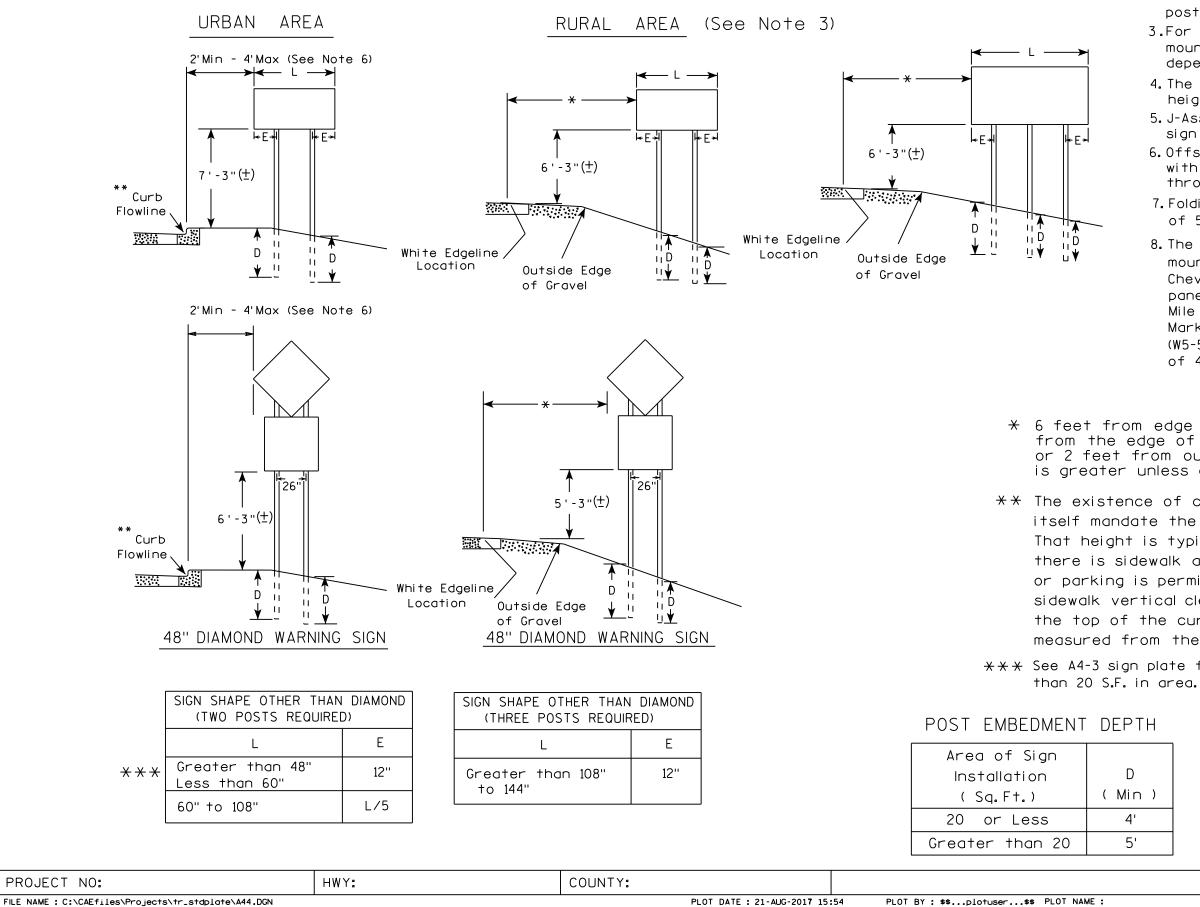
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

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.

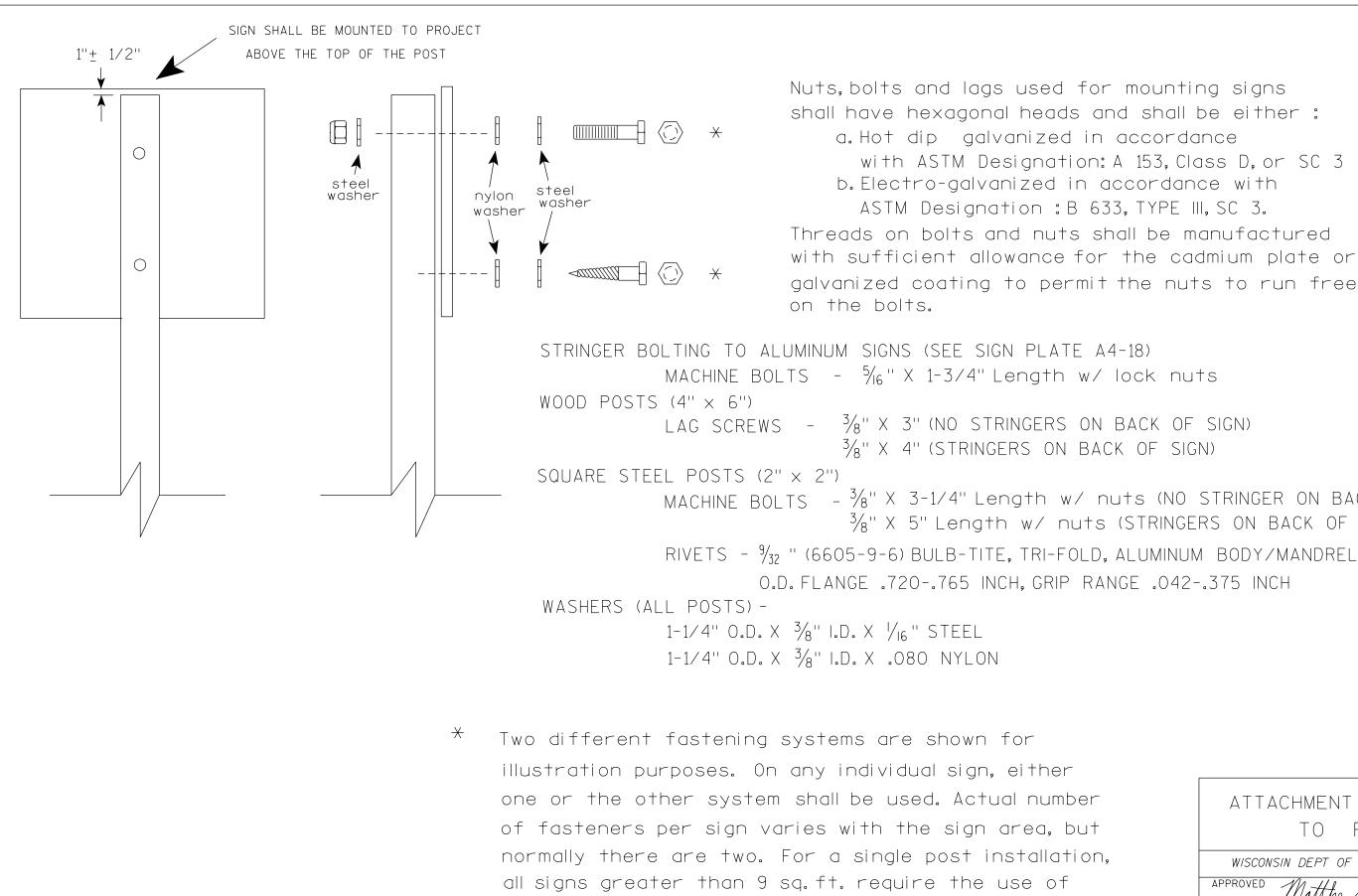
\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of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

WISDOT/CADDS SHEET 42



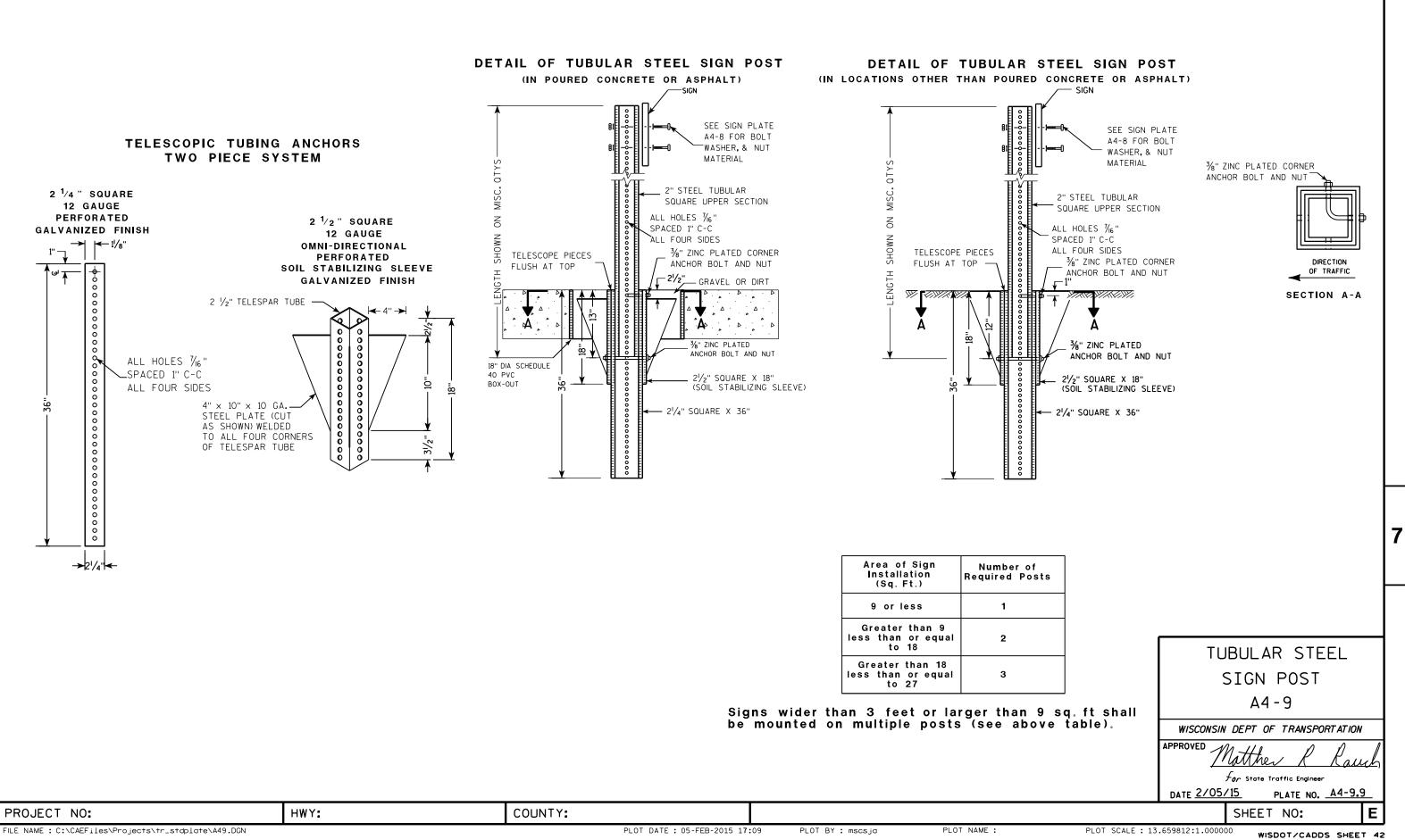
3 fasteners.

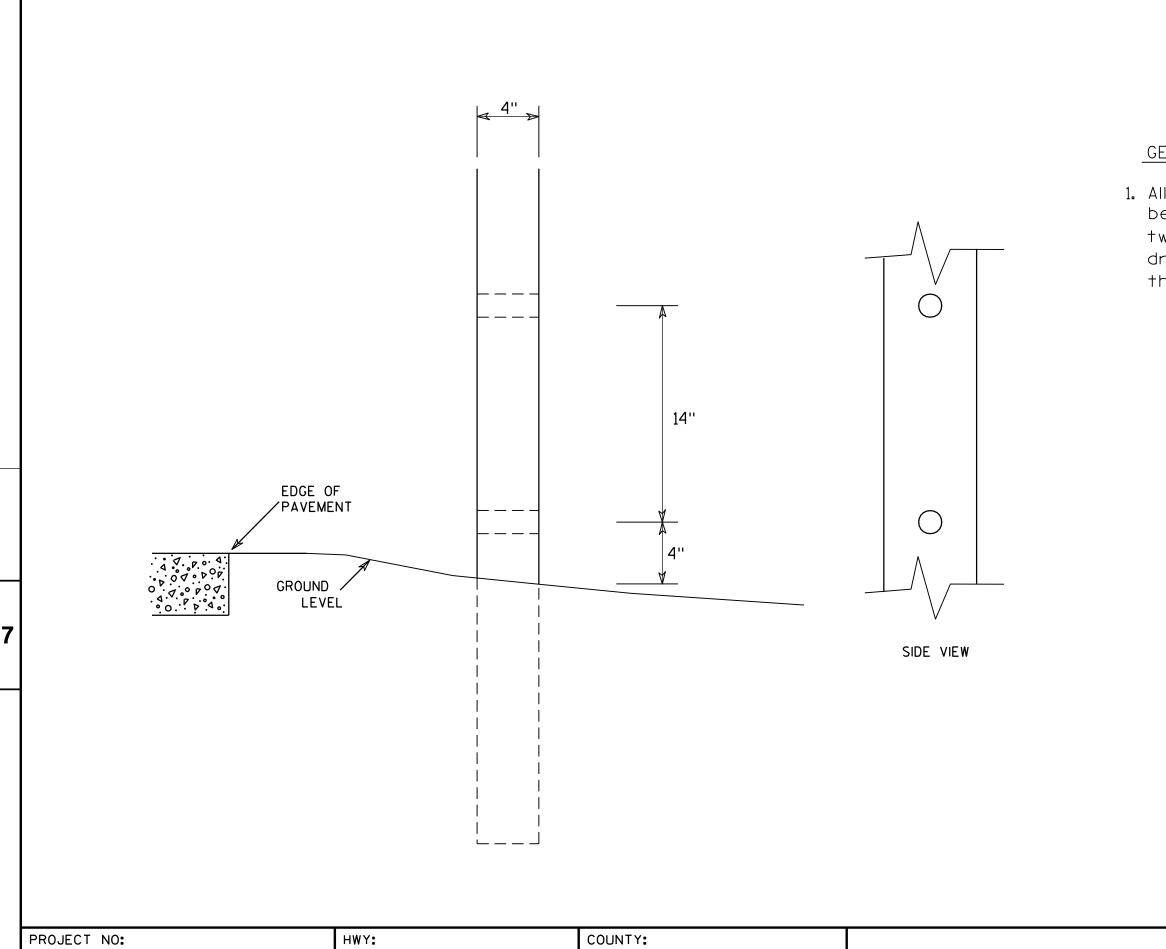
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured 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 - <sup>3</sup>/<sub>8</sub>" 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



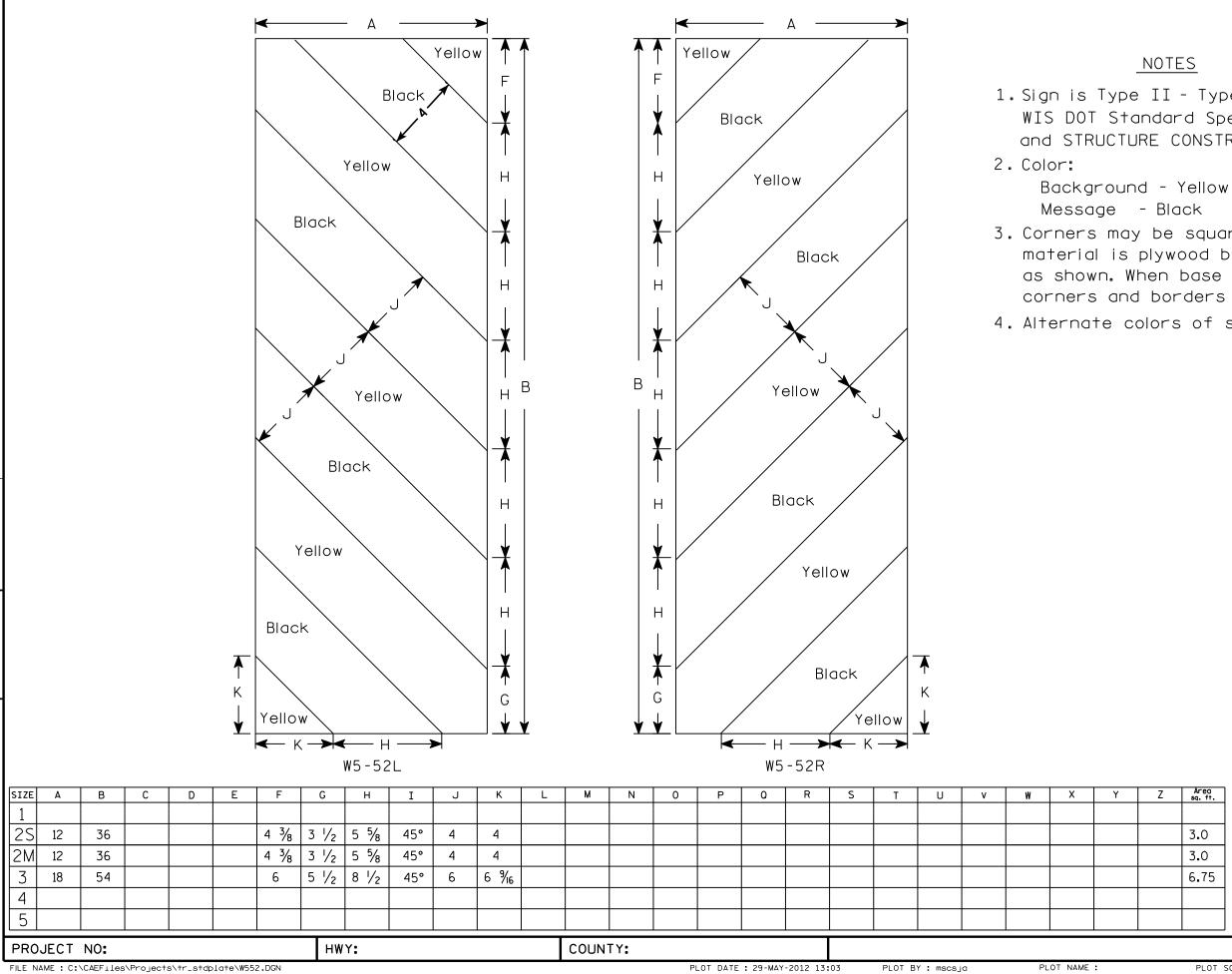


FILE NAME : C:\Users\Projects\tr\_stdplate\A411.DGN

# 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	'
	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 <b>7</b> 33	8:1.0000	000	WISD	от/с	ADDS SHEE	т 42



FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W552.DGN

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PLOT NAME :

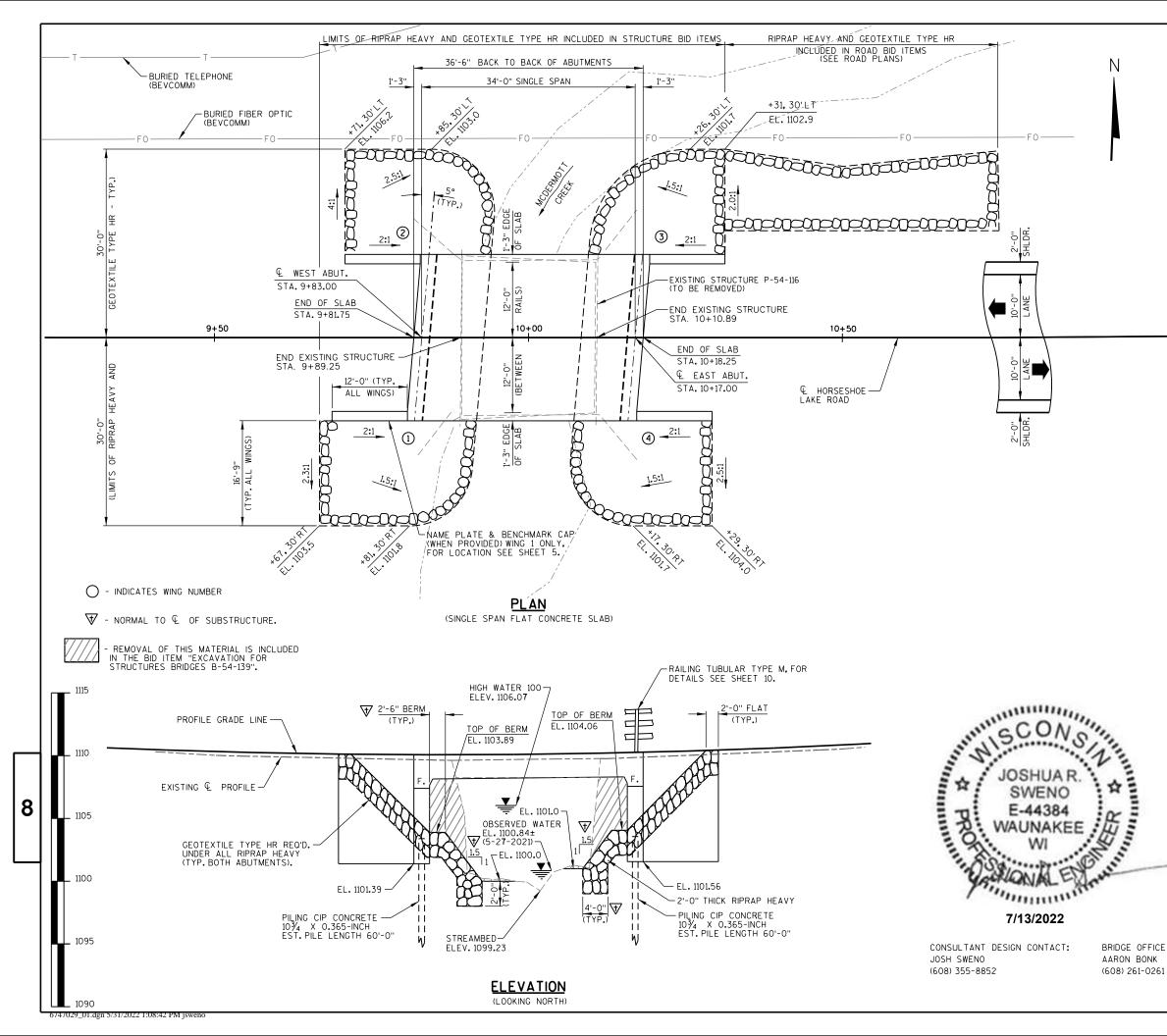
## NOTES

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.

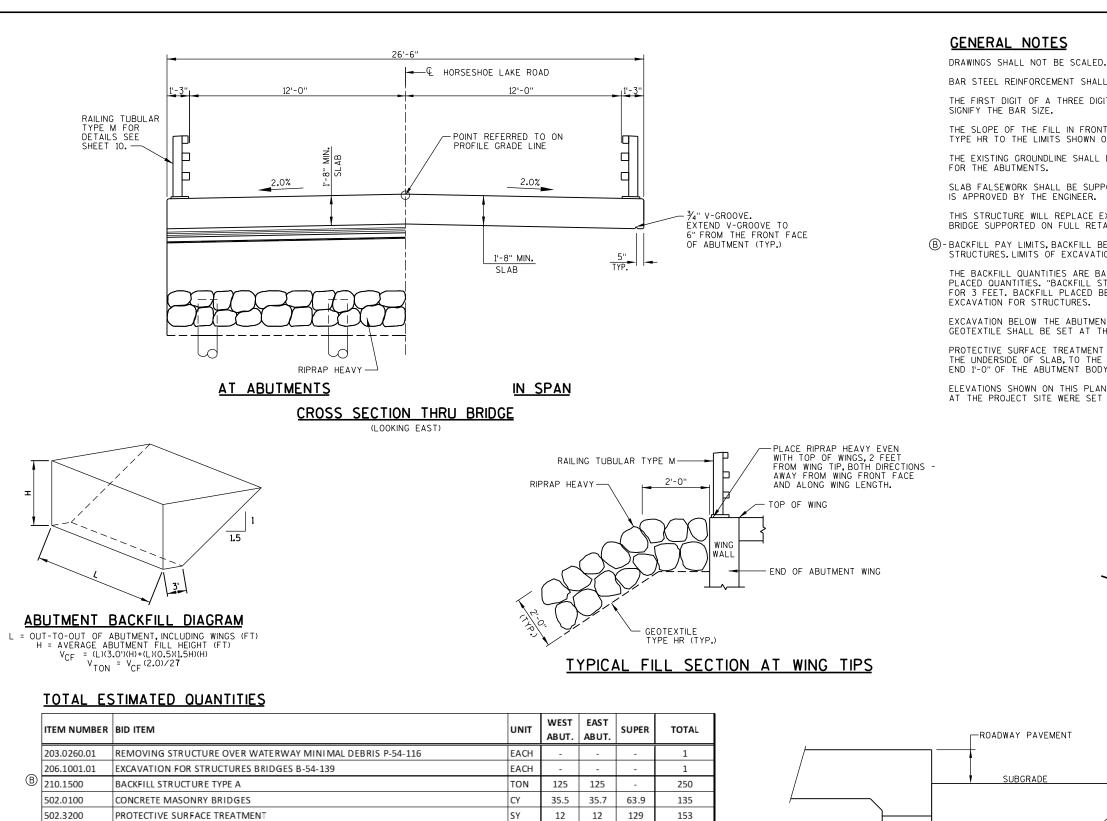
Z	Area sq. ft.	STANDARD SIGN					
		W5-52L & W5-52R					
	3.0						
	3.0	WISCONSIN DEPT OF TRANSPORTATION					
	6.75	APPROVED Matthew R Rauch					
		for State Traffic Engineer					
		DATE 5/29/12 PLATE NO. W5-52.9					
SHEET NO: E							
PLOT SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42							

PLOT DATE : 29-MAY-2012 13:03

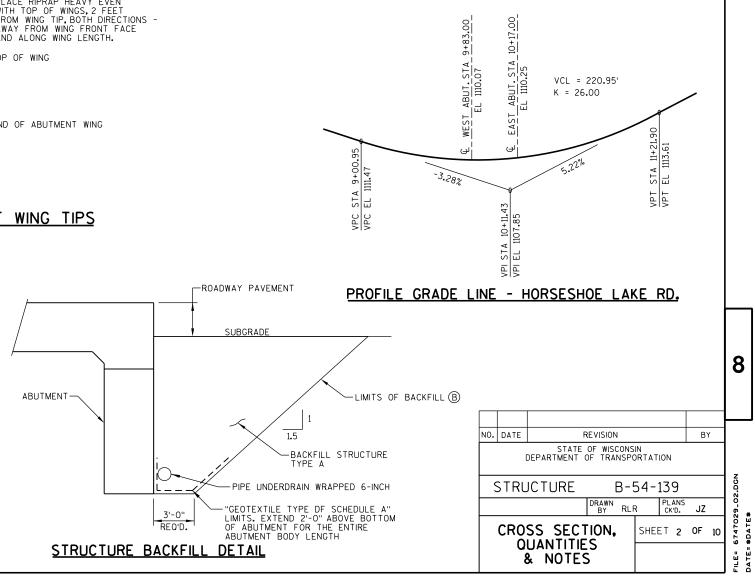


## 8436-00-70

WISCONSIN STAN STRUCTURE IS E	TRAFFIC DATA:	) = 60 PH	
<u>MATERIAL PROPER</u> CONCRETE MASC A	TIES: NRY, SLAB f`c = 4,000 LL OTHER f`c = 3,500	P.S.I. P.S.I.	
HIGH-STRENGTH REINFORCEMEN	BAR STEEL , GRADE 60 fy = 60,000	) P.S.I.	
PILING CIP CONC	RETE 10¾ × 0.365-INCH fy = 45,000	) P.S.I.	
10¾ X 0.365-1 OF 150 TONS ¥	BE SUPPORTED ON PILING CIP CONCRETE NCH DRIVEN TO A REQUIRED DRIVING RESIST - PER PILE AS DETERMINED BY THE MODIFI FORMULA. ESTIMATED PILE LENGTHS ARE	ED	
USED FOR DESIG	AXIAL RESISTANCE OF PILES IN COMPRESSION N IS THE REQUIRED DRIVING RESISTANCE A RESISTANCE FACTOR OF 0.5 USING MODIF RMINE DRIVEN PILE CAPACITY.		
0 <sub>100</sub> VELOCITY – WATERWAY SCOUR CRI HIGH WATER 0 <sub>2</sub> 0 <sub>2</sub> VELOCI 0 <sub>2</sub> ELEVAT	JUDENCI       3.47         IREA       750 (         AREA       750 (         AREA       97 SC         ICAL CODE       5         R100 ELEVATION       1106.0         190 C       190 C         TY       3.74 1         ION       190 C         IY       3.74 1         ION       100.33         RFLOW DESIGN FREQUENCY       3.74 1         IG FREQUENCY       > 100         LIST OF DRAWINCS       100.33         REST ABUTARN       > 100         LISENT OF DRAWINCS       > 100         LISENT ABUTMENT       > 100         4. WEST ABUTMENT       DETAILS         6. EAST ABUTMENT       DETAILS         8. SUPERSTRUCTURE       9. SUPERSTRUCTURE         9. SUPERSTRUCTURE DETAILS       10. RAILING TUBULAR TYPE M	2.F.S. FT./SEC. D.FT. 7 .F.S. FT./SEC. 2	
	NO. DATE REVISION	BY	
		SURVEYING RONMENTAL ON WI 53704 msa-ps.com	8
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED	14/22 DATE	
	STRUCTURE B-54-139		
	HORSESHOE LAKE ROAD OVER MCDERMOTT COUNTY RUSK TOWN/CITY/VILLAGE	CREEK RUSK	_
	DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS		1.DGN
ONTACT:	DESIGNED BY JZ CK'D. JRS BY RLR CK'D.	s JZ	029_0
	GENERAL PLAN	1 OF 10	FILE= 6747029_01.DGN DATE= \$DATE\$



	ITEM NUMBER	BID ITEM	UNIT	WEST ABUT.	EAST ABUT.	SUPER	TOTAL
	203.0260.01	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-54-116	EACH	-	-	-	1
~	206.1001.01	EXCAVATION FOR STRUCTURES BRIDGES B-54-139	EACH	-	-	-	1
B	210.1500	BACKFILL STRUCTURE TYPE A	TON	125	125	-	250
	502.0100	CONCRETE MASONRY BRIDGES	CY	35.5	35.7	63.9	135
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	12	12	129	153
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,620	1,620	-	3,240
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,720	1,730	10,970	14,420
	513.4061	RAILING TUBULAR TYPE M	LF	-	-	126	126
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9	9	-	18
	550.2106	PILING CIP CONCRETE 10 3/4 X 0.365-INCH	LF	240	240	-	480
	606.0300	RIPRAP HEAVY	CY	98	88	-	186
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	90	90	-	180
	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	26	26	-	52
	645.0120	GEOTEXTILE TYPE HR	SY	165	152	-	317
		NON-BID ITEMS					
		PREFORMED FILLER	SIZE				1⁄2" & 3⁄4"



#### 8436-00-70

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE. THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE LIMITS SHOWN ON SHEET 1 AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER. THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-54-139"

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

THIS STRUCTURE WILL REPLACE EXISTING STRUCTURE P-54-116, A 24.6 FT. WIDE BY 21.6 FT. LONG TIMBER SLAB BRIDGE SUPPORTED ON FULL RETAINING TIMBER BACKED ABUTMENTS WITH TIMBER PILING.

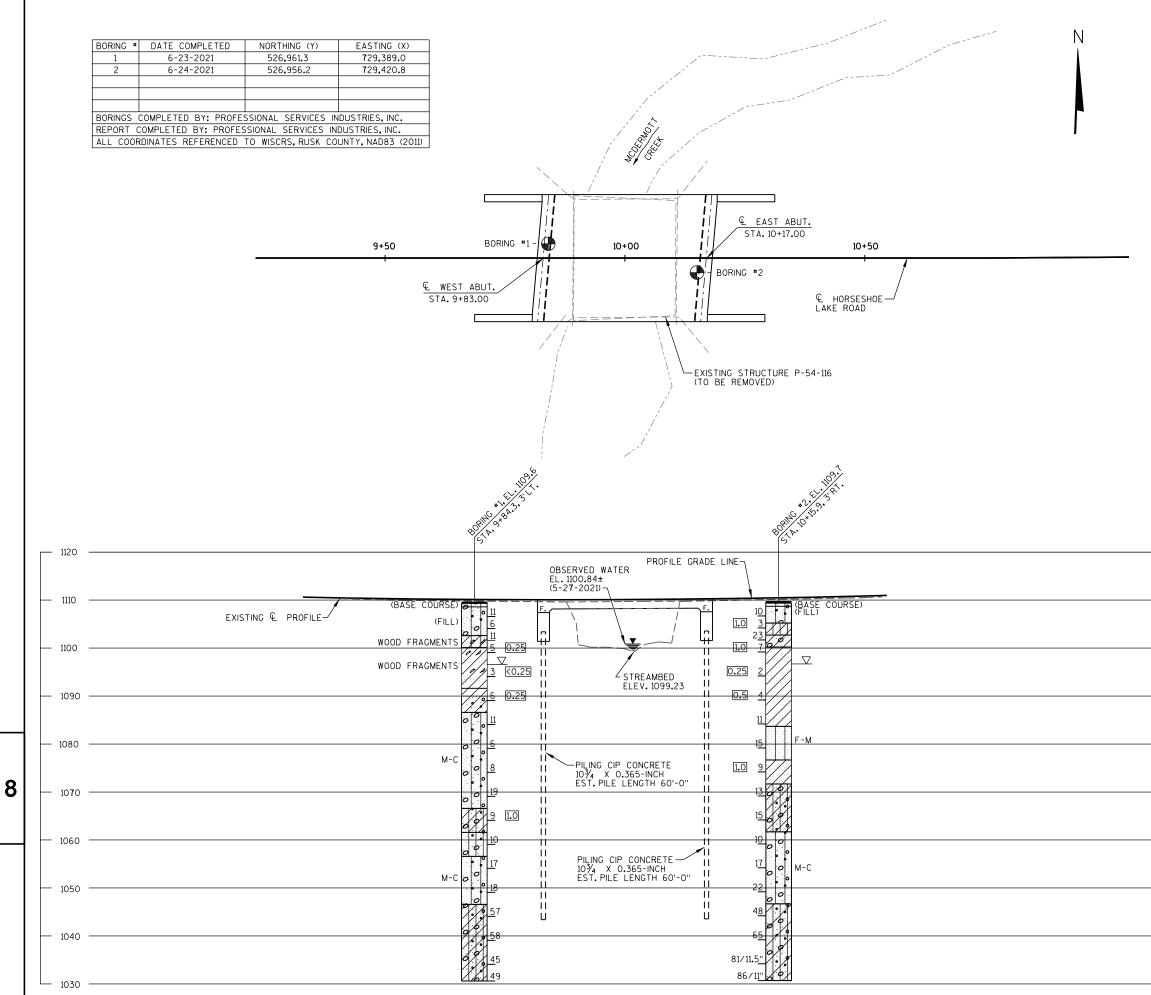
(B)-BACKFILL PAY LIMITS, BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

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

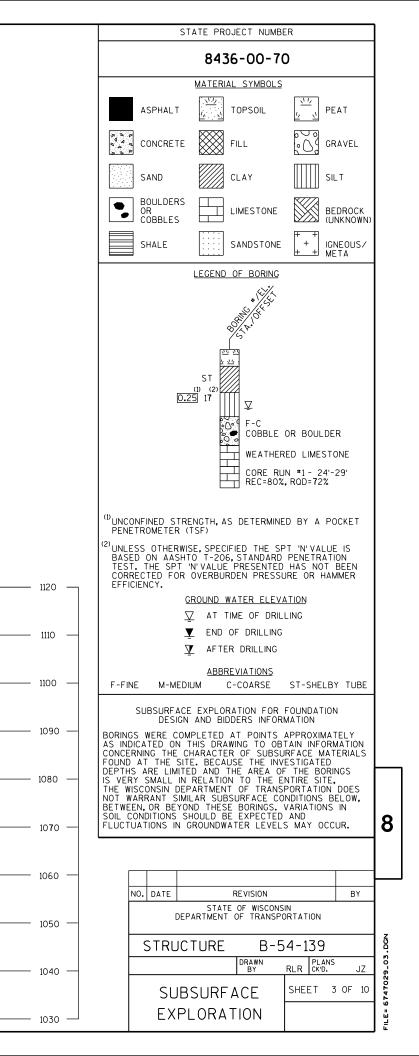
EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-O" ABOVE BOTTOM OF ABUTMENT.

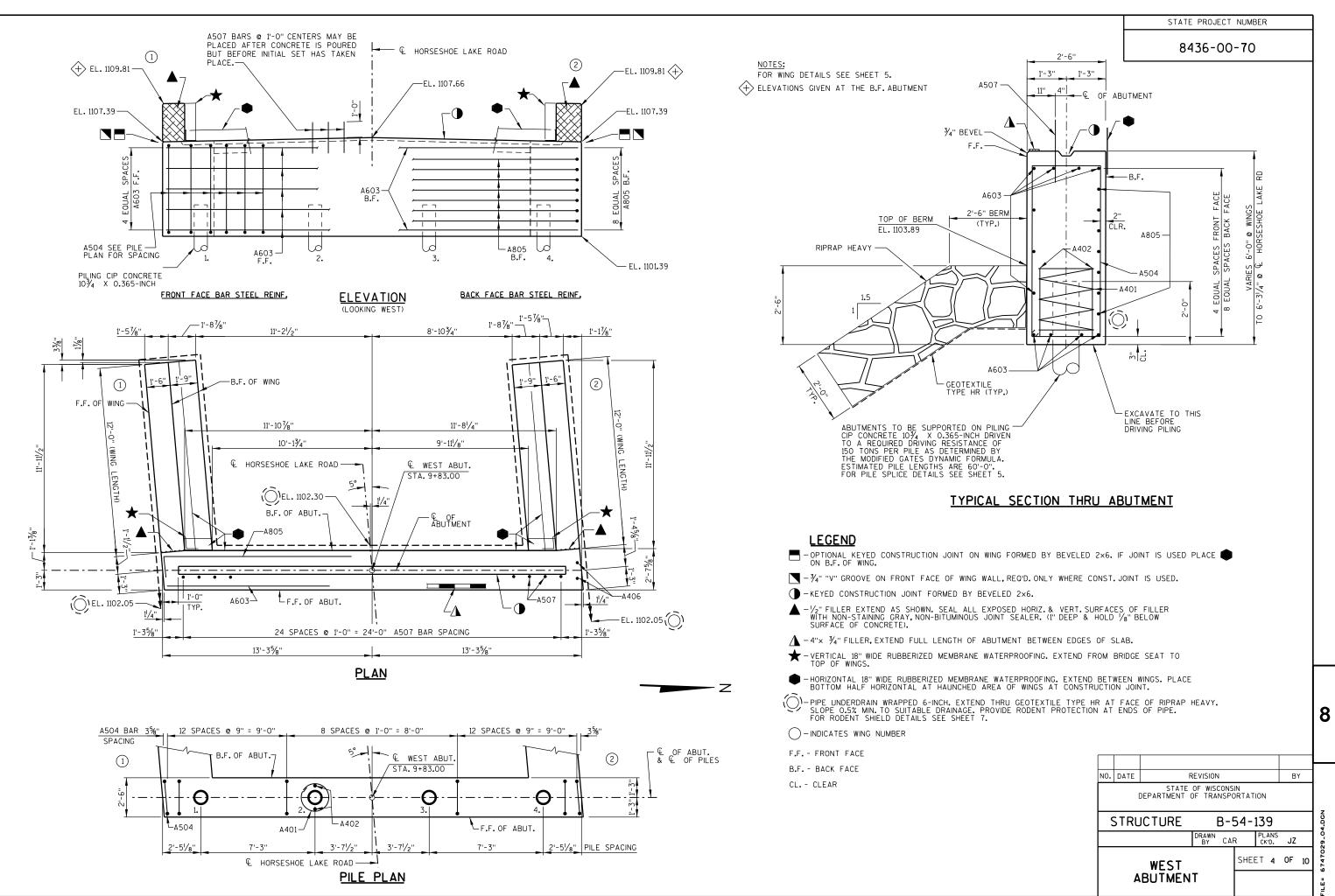
PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND EDGES OF SLAB, TO THE OUTSIDE 1'-O" OF THE UNDERSIDE OF SLAB, TO THE TOPS OF WINGS, TO THE EXPOSED FRONT FACES OF WINGS, AND TO THE END 1'-O" OF THE ABUTMENT BODY FRONT FACES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012 ADJUSTED). BENCHMARK REFERENCES AT THE PROJECT SITE WERE SET BY THE CONSULTANT USING GPS TECHNOLOGY.

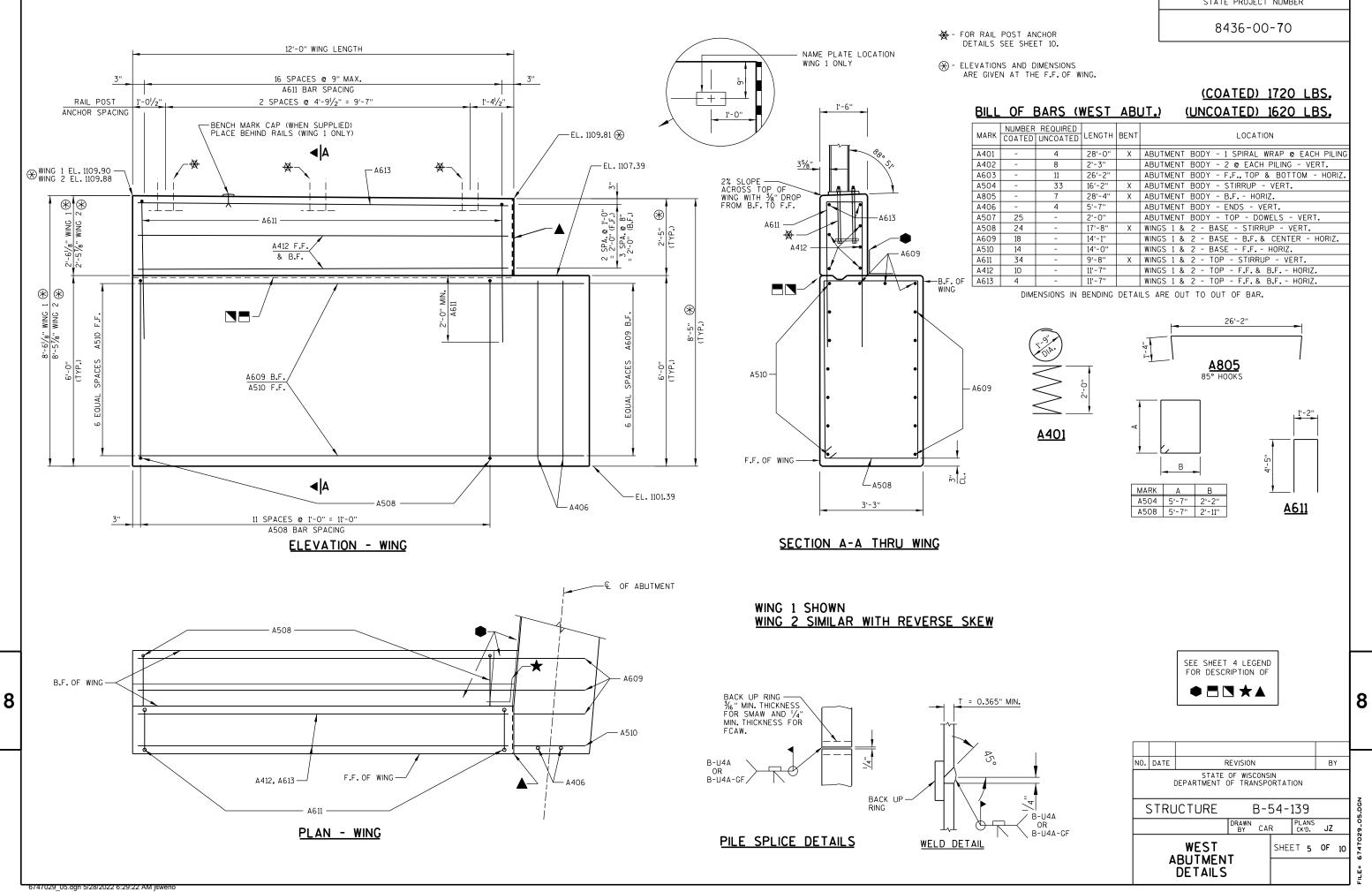


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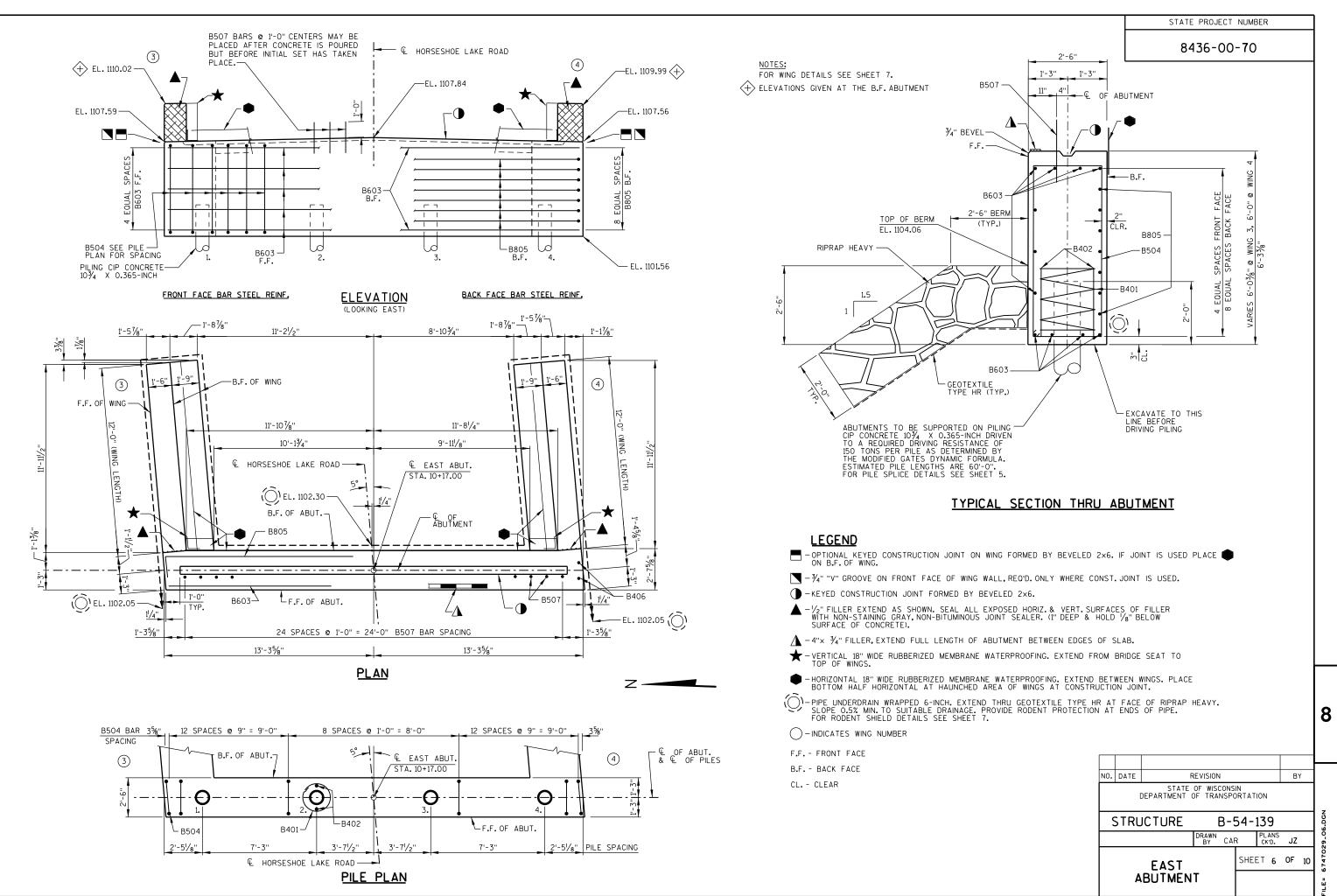


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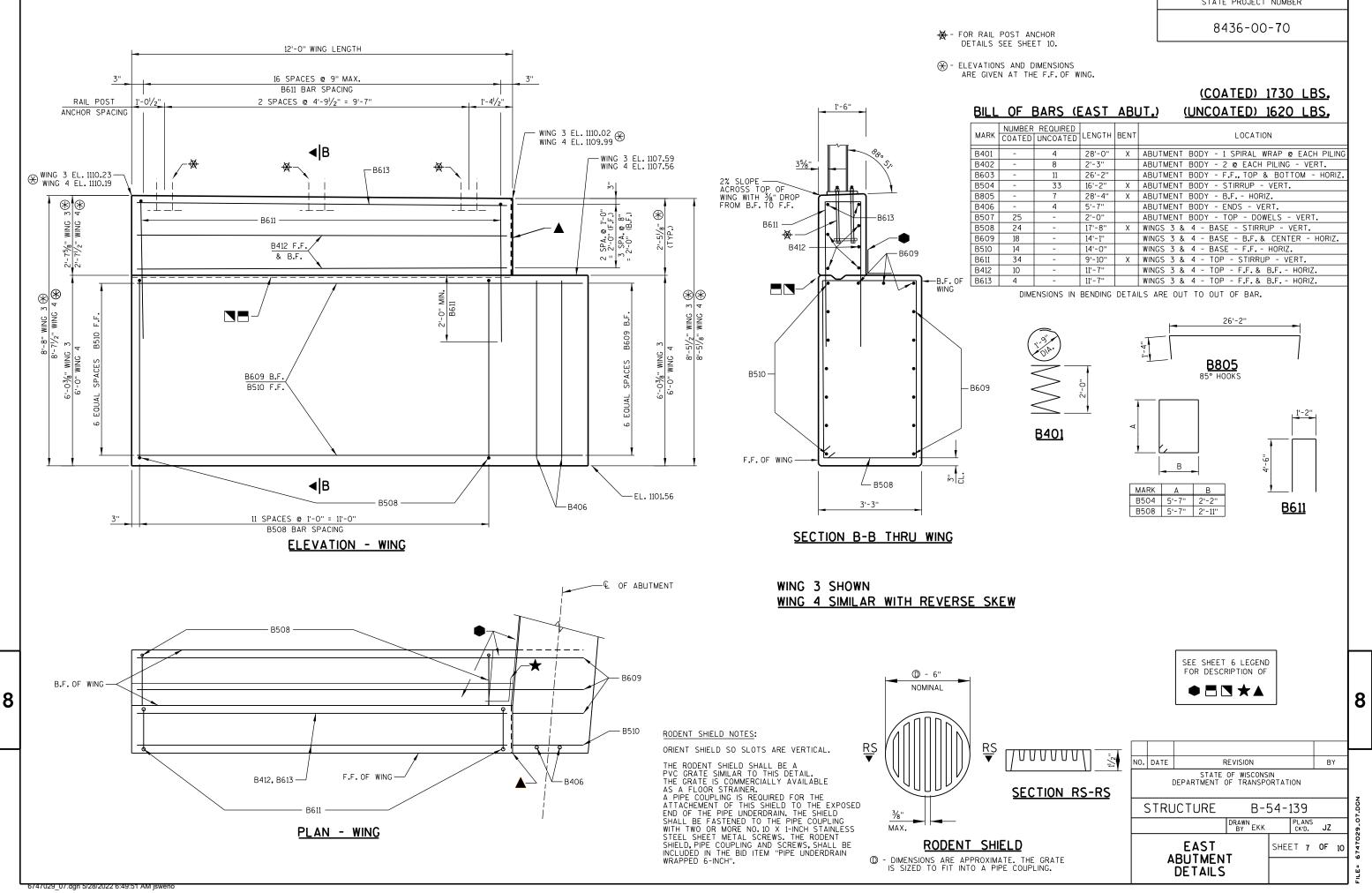


IBER	R REQUIRED						
TED	UNCOATED	LENGTH	BENT	LOCATION			
	4	28'-0"	Х	ABUTMENT BODY - 1 SPIRAL WRAP @ EACH PILING			
	8	2'-3"		ABUTMENT BODY - 2 @ EACH PILING - VERT.			
	11	26'-2"		ABUTMENT BODY - F.F., TOP & BOTTOM - HORIZ.			
	33	16'-2"	Х	ABUTMENT BODY - STIRRUP - VERT.			
	7	28'-4''	Х	ABUTMENT BODY - B.F HORIZ.			
	4	5'-7"		ABUTMENT BODY - ENDS - VERT.			
5	-	2'-0"		ABUTMENT BODY - TOP - DOWELS - VERT.			
4	-	17'-8"	Х	WINGS 1 & 2 - BASE - STIRRUP - VERT.			
3	-	14'-1''		WINGS 1 & 2 - BASE - B.F. & CENTER - HORIZ.			
1	-	14'-0"		WINGS 1 & 2 - BASE - F.F HORIZ.			
4	-	9'-8"	Х	WINGS 1 & 2 - TOP - STIRRUP - VERT.			
)	-	11'-7''		WINGS 1 & 2 - TOP - F.F. & B.F HORIZ.			
	-	11'-7''		WINGS 1 & 2 - TOP - F.F. & B.F HORIZ.			

STATE PROJECT NUMBER

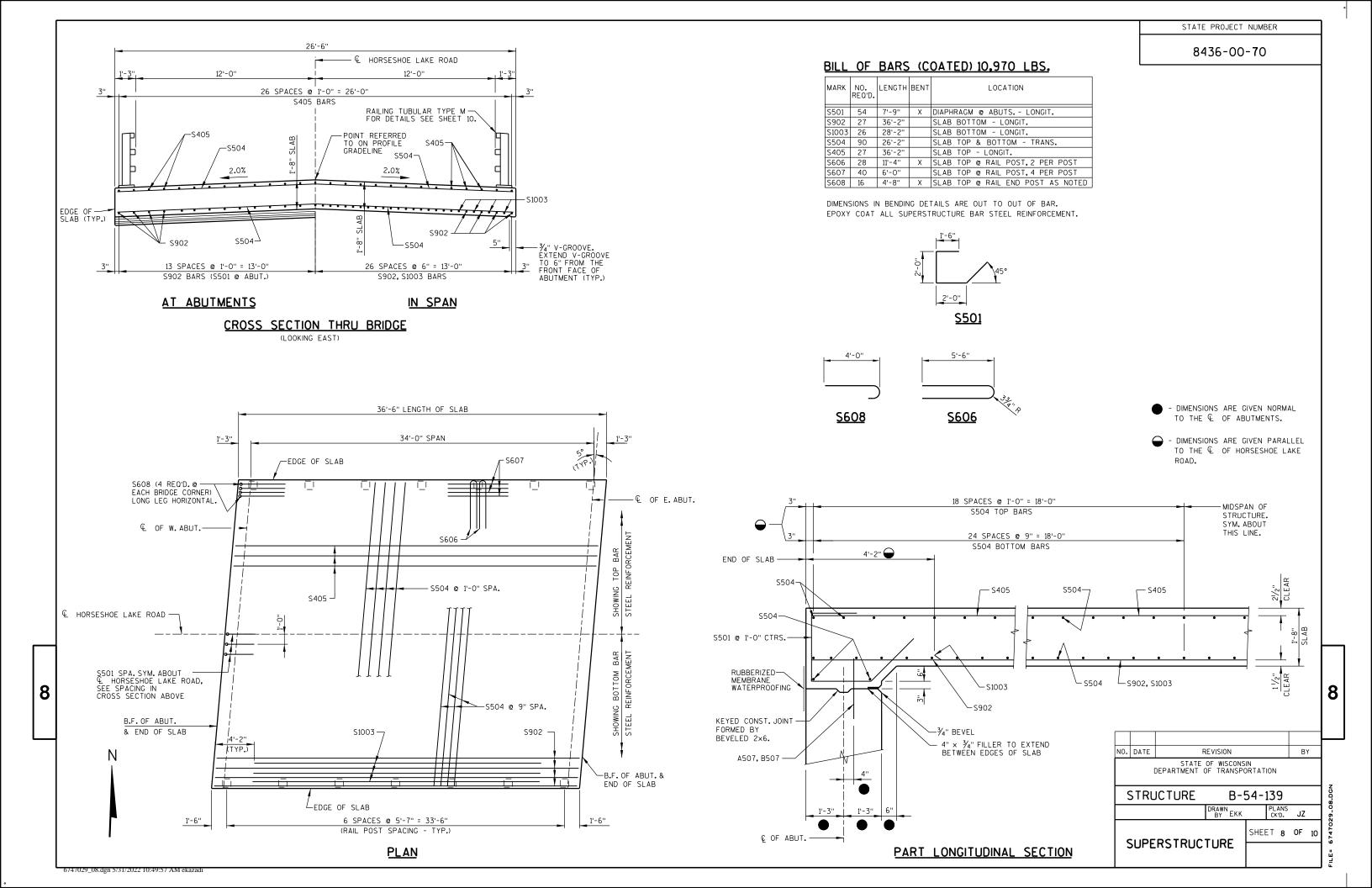


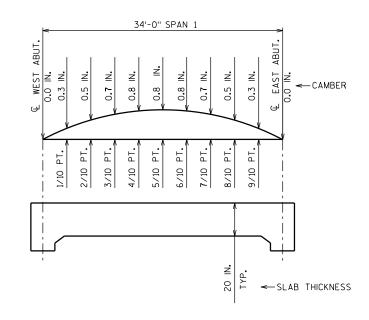
6747029\_06.dgn 5/31/2022 10:47:46 AM ekazadi



IBER	REQUIRED						
TED	UNCOATED	LENGTH	BENT	LOCATION			
	4	28'-0"	Х	ABUTMENT BODY - 1 SPIRAL WRAP @ EACH PILING			
	8	2'-3"		ABUTMENT BODY - 2 @ EACH PILING - VERT.			
	11	26'-2"		ABUTMENT BODY - F.F., TOP & BOTTOM - HORIZ.			
	33	16'-2''	Х	ABUTMENT BODY - STIRRUP - VERT.			
	7	28'-4"	Х	ABUTMENT BODY - B.F HORIZ.			
	4	5'-7"		ABUTMENT BODY - ENDS - VERT.			
5	-	2'-0"		ABUTMENT BODY - TOP - DOWELS - VERT.			
4	-	17'-8''	Х	WINGS 3 & 4 - BASE - STIRRUP - VERT.			
3	-	14'-1''		WINGS 3 & 4 - BASE - B.F. & CENTER - HORIZ.			
1	-	14'-0''		WINGS 3 & 4 - BASE - F.F HORIZ.			
4	-	9'-10''	Х	WINGS 3 & 4 - TOP - STIRRUP - VERT.			
)	-	11'-7''		WINGS 3 & 4 - TOP - F.F. & B.F HORIZ.			
	-	11'-7''		WINGS 3 & 4 - TOP - F.F. & B.F HORIZ.			

STATE PROJECT NUMBER





## 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 MINUS

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

EQUALS = TOP OF SLAB FALSEWORK ELEVATION

SURVEY	TOP	OF	S
	WEST		

	ABUTMENT
SOUTH EDGE OF SLAB	
€ HORSESHOE LAKE RD	
NORTH EDGE OF SLAB	

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIO RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR T

NOTES

TOP TRANSVERSE BARS IN SLA BAR CHAIRS AT APPROXIMATEL LONGITUDINAL BARS SHALL BE AT APPROXIMATELY 4'-0" CENT

ALL SLAB THICKNESS DIMENSION NECESSARY TO CORRECT CONS TO BE PLUS (+).

FILL IN THE TABLE OF "SURVE EACH SPAN ON <u>AS BUILT PLAN</u>

## TOP OF SLAB ELEVATIONS

	C/L BRG. WEST ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	C/L BRG. EAST ABUT.
SOUTH EDGE OF SLAB	1109.81	1109.81	1109.81	1109.81	1109.82	1109.84	1109.86	1109.88	1109.91	1109.94	1109.98
HORSESHOE LAKE RD C/L	1110.07	1110.07	1110.07	1110.08	1110.09	1110.11	1110.13	1110.15	1110.18	1110.22	1110.25
NORTH EDGE OF SLAB	1109.81	1109.81	1109.81	1109.82	1109.83	1109.85	1109.87	1109.90	1109.93	1109.96	1110.00

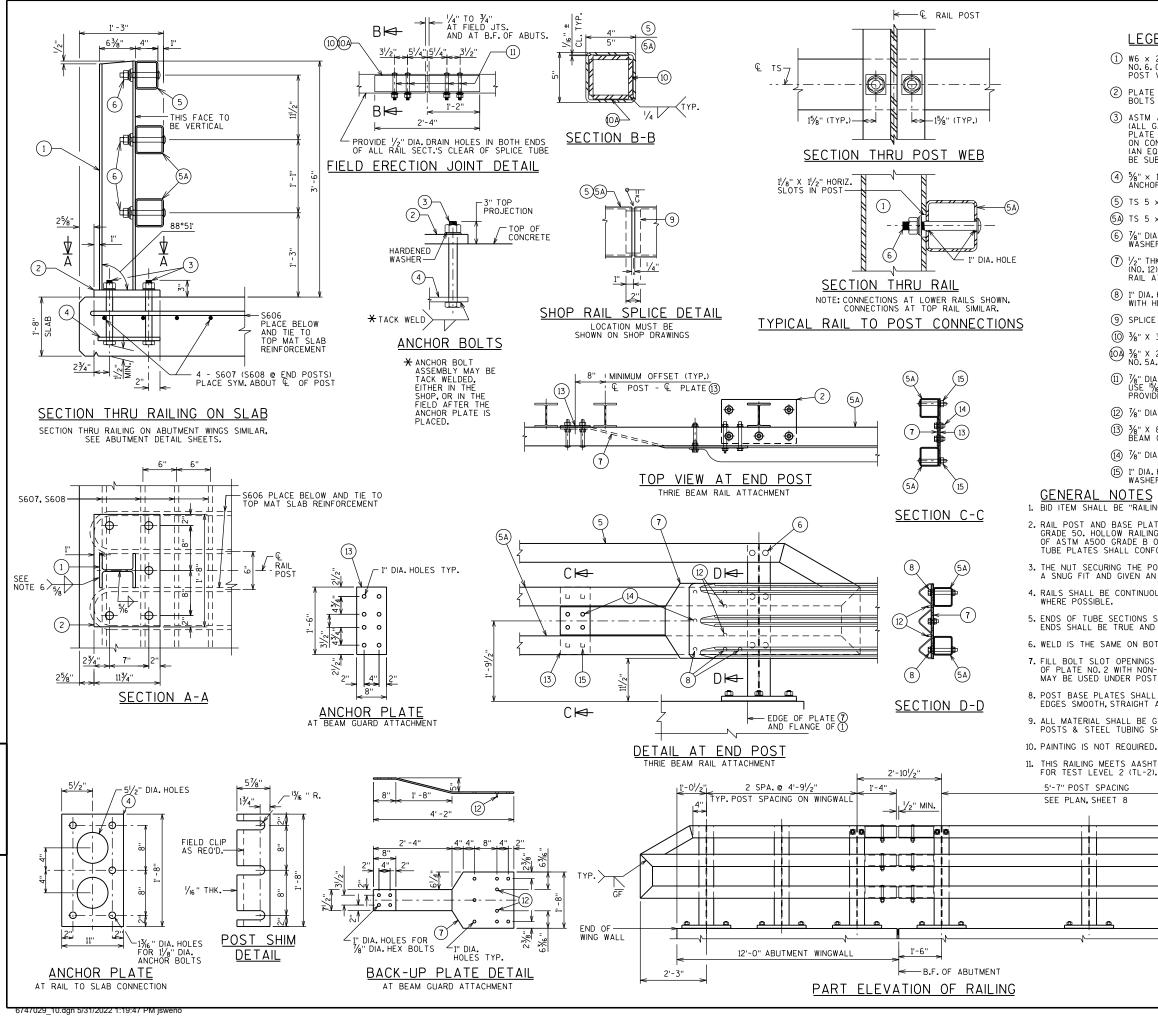
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SLAB ELE	VATIONS						
5/10 PT.	EAST ABUTMENT						
SLAB ELEVATI ONS ALONG TH THE "AS BUILT"	ONS AT THE Q ( E SLAB EDGES AN PLANS.	OF ABUTMENTS ID CROWN OR	5. £.				
AB SHALL BE S Y 3'-O" CENTE SUPPORTED B TERS.	SUPPORTED BY IND RS EACH WAY. BC Y CONTINUOUS BA	DIVIDUAL TTOM R CHAIRS					
ONS ARE MINIML STRUCTION DISC	JM. ANY TOLERANG CREPANCIES ARE	CES					
EY TOP OF SLA <u>NS</u> .	AB ELEVATIONS" FO	DR					8
		1					
	NO. DATE		REVISION OF WISCONS	IN		BY	
		DEPARTMENT	OF TRANSPO	DRTATI			z
		UCTURE	DRAWN BY EKK	54-1	39 PLANS CK'D.	JZ	2-09.00
	SUP	ERSTRUC DETAILS	TURE	SHEE	⊺9	0F 10	-ILE= 11514012_09.DGN
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STATE PROJECT NUMBER

8436-00-70



STATE PROJECT NUMBER 8436-00-70 LEGEND (1) W6 × 25 WITH 1½" X 1½" 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 POSTS NORMAL TO GRADE LINE. (2) PLATE  $1\!/_4"\times11\!/_4"\times1'\!\cdot8"$  with 1  $\prime\!/_{16}"$  dia. Oversized holes for anchor bolts no. 3. Weld to no.1 as shown. (3) ASTM A449 - 1½" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REO'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-3" LONG ON CONCRETE SLAB SUPERSTRUCTURE. USE 1'-9" LONG IN ABUTMENT WINGS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REO'D. FOR CONSTRUCTIBILITY). (4)  $5\!\!/\!\!/ s$  × 11" × 1'-8" anchor plate (Galvanized) with 1 $\!\!/\!\!/_6$  " dia.holes for anchor bolts no. 3 (5) TS 5  $\times$  4  $\times$  0.25 STRUCTURAL TUBING. ATTACH TO NO.1WITH NO.6. (5A) TS 5  $\times$  5  $\times$  0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6. (6) %" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, %" X 1%" X 1%" MIN. WASHER, AND LOCK WASHER (2 REO'D. AT EACH RAIL TO POST LOCATION.) ⑦ ½" THK. BACK-UP PLATE WITH 2 - ⅔" 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  $7_{\rm W}$ " 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) 3/8" X 35/8" X 2"-4" PLATE. 2 PER RAIL. USED IN NO.5 & 5A. (0) %" X 2%" X 2'-4" PLATE USED IN NO. 5, %" X 3%" X 2'-4" PLATE USED IN NO. 54. 2 PER RAIL. (1)  $~\%^{\prime\prime}$  dia. A325 round head bolt with nut, washer, and lock washer. Use  $1\%^{\prime}_6$  " x  $1^1/4$ " longit. Slotted holes in plate no. 10a. Provide  $1\%^{\prime}_6$  " dia. Round holes in tubes no. 5 and no. 5a. (12)  $\frac{1}{8}$ " DIA. X  $\frac{1}{2}$ " LONG THREADED SHOP WELDED STUDS (2 REO'D). 3 %" X 8" X 1'-6" PLATE. BOLT TO RAIL AS SHOWN IN DETAIL. REO'D.AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYM. ABOUT TUBES NO.5A. (1) 1/8" DIA. X 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQ'D.).  $(\overline{5})$  1" dia. Holes in tubes no.5a for %" dia. A325 round head bolt with nut, washer and lock washer (4 reo'd.). 4 holes in tubes. 1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M" WHICH INCLUDES ALL ITEMS SHOWN. 2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 CRADE 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. 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL  $1^\prime_8$  TURN. 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH. 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING. 7. 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. 8. 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. 9. 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. 11. THIS RAILING MEETS AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) FOR TEST LEVEL 2 (TL-2). 8 00 . . . NO. DATE REVISION ΒY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION B-54-139 STRUCTURE DRAWN BY EKK PLANS CK'D. JZ RAILING SHEET 10 OF TUBULAR

TYPE M

#### PROJECT I.D. 8436-00-70 EARTHWORK SUMMARY

	EXCAVATION	EXCAVATION		EXPANDED		
	COMMON	ROCK	FILL (1)	FILL (2)	WASTE	BORROW
STA	CY	СҮ	CY	CY	CY	СҮ
9+25.00						
	26	0	13	17	9	-9
9+50.00						
	29	0	33	43	-14	14
9+81.75						
		STRUCTURE	B-54-139			
10+18.25						
	24	0	10	13	11	-11
10+50.00						
	22	0	4	5	17	-17
10+75.00						
SUBTOTALS						
S. APPROACH	55	0	46	60	-5	5
N. APPROACH	46	0	14	18	28	-28
UNUSABLE						28
PAVEMENT (3)						20
TOTALS	101	0	60	78	23	5

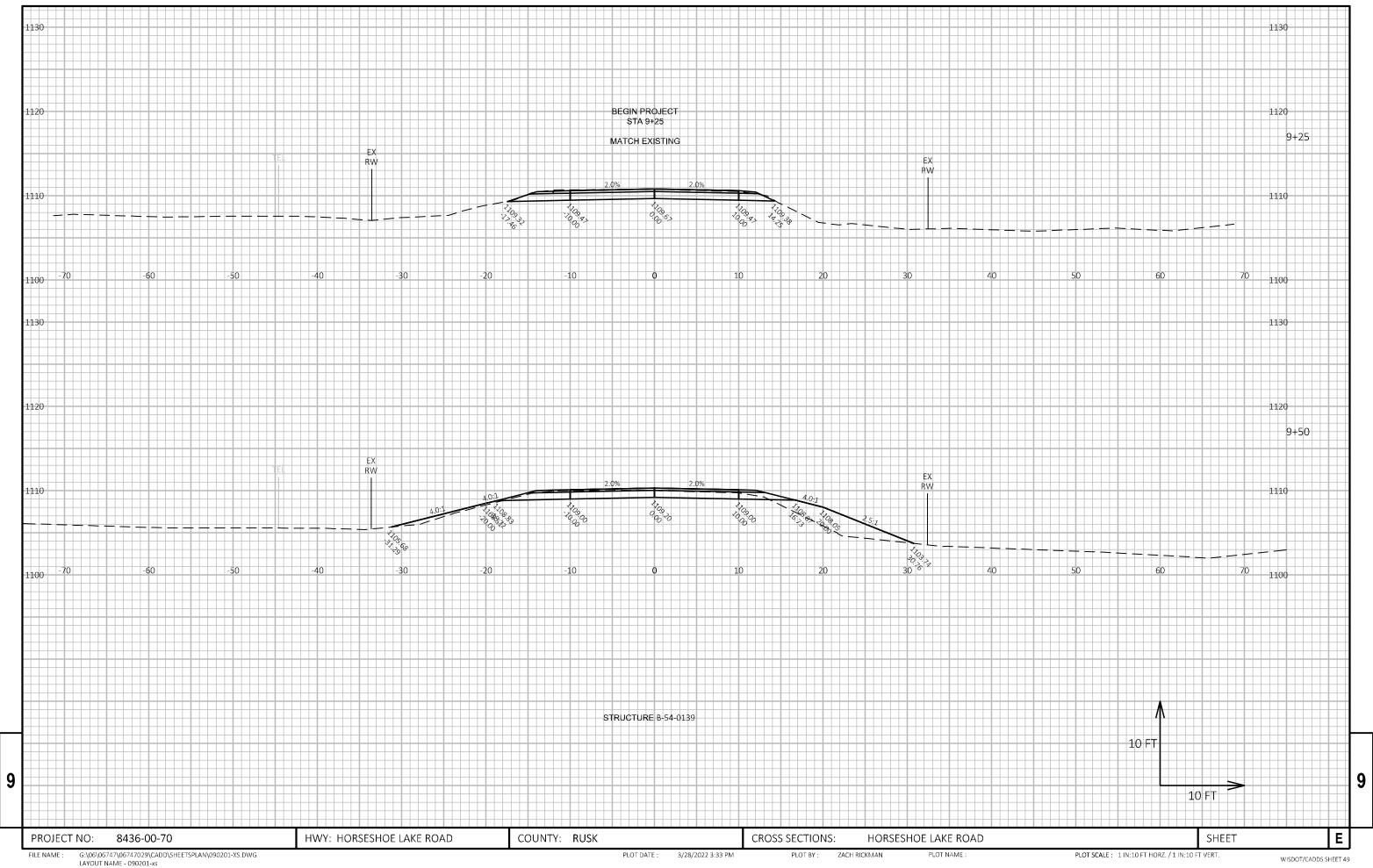
(3) - EXISTING PAVEMENT BASED ON AVERAGE THICKNESS OF 3.5"

PROJECT NO:	8436-00-70	HWY: LOC STR	COUNTY: RUSK	EARTHWORK DATA

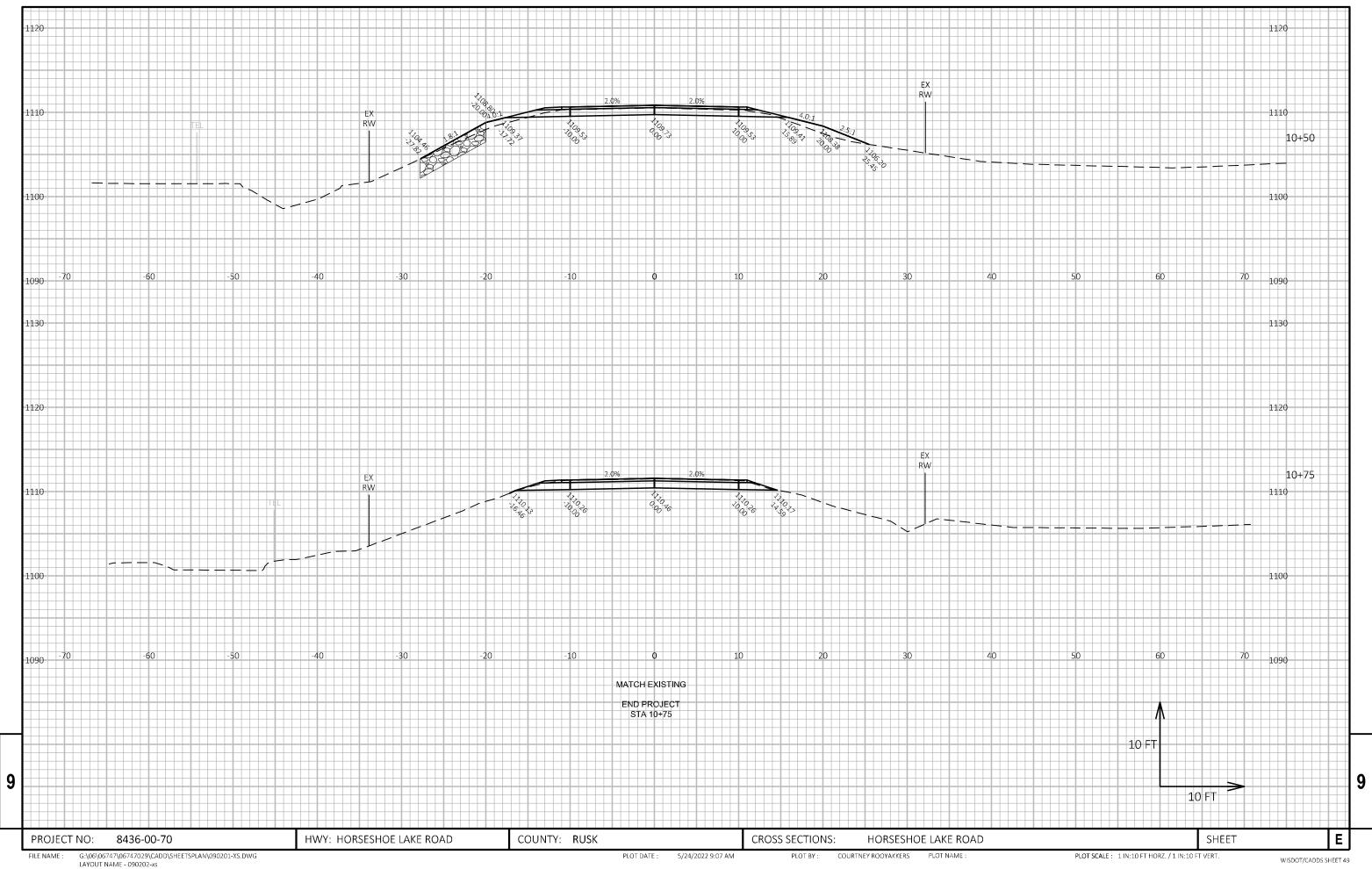
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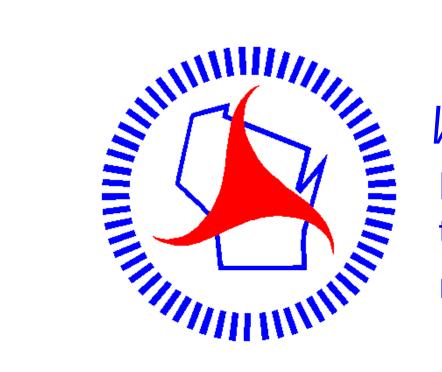
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