NOVEMBER 2024

Section No.

Section No.

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS = 50

DESIGN DESIGNATION

2025 = 100

CONVENTIONAL SYMBOLS

= 15

= 50/50

= 55 MPH (STATUTORY)

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

ELECTRIC

FIBER OPTIC

SANITARY SEWER

TELEPHONE POLE

₫

Ø

STORM SEWER

GRADE ELEVATION

CULVERT (Profile View) UTILITIES

MARSH OR ROCK PROFILE (To be noted as such)

AADT

A.A.D.T. D.H.V.

DESIGN SPEED

CORPORATE LIMITS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

PROPERTY LINE

D.D.

ORDER OF SHEETS

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Plan and Profile

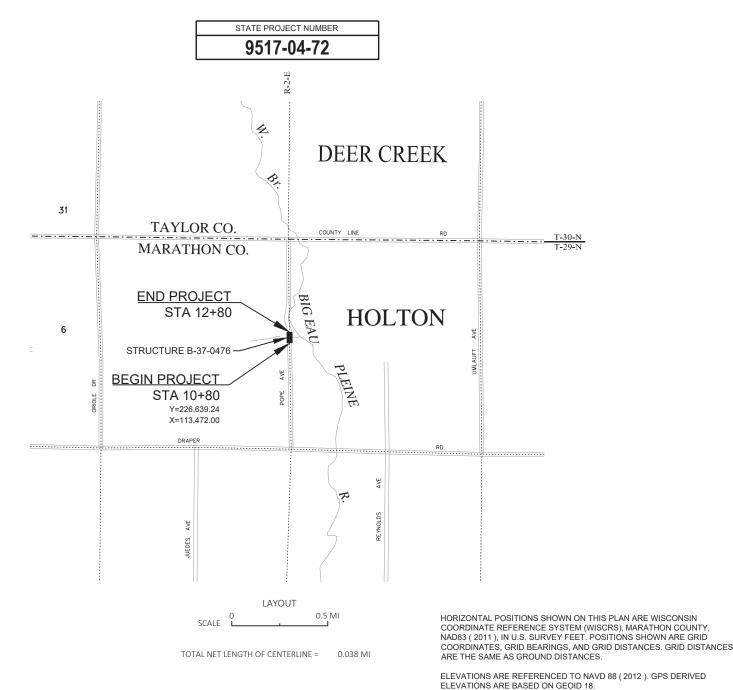
STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details (Includes Erosion Control) Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

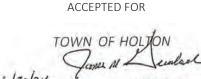
T HOLTON, POPE AVENUE

W BR BIG EAU PLEINE RVR BDGE, B-37-0476

LOC STR **MARATHON COUNTY**



FEDERAL PROJECT STATE PROJECT CONTRACT WISC 2025061 1 9517-04-72



ORIGINAL PLANS PREPARED BY

(Signature and Title of Official)



500 North 17th Avenue Wausau, WI 54401 715.845.1081 Fax 715.845.1099



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	EMCS, INC.
Designer	EMCS, INC.
Project Manager	MICHAEL GRAGE
Regional Examiner	MICHAEL GRAGE
~	

6/20/2024

PARKER TISCHAUSER

FILE NAME : P:\55XX\5591.DP.23.POPE.MAR\CADDS\95170472\SHEETS\010101-TI.DWG

6/20/2024 8:26 AM

GENERAL NOTES

THERE ARE NO KNOWN UTILITY FACILITIES WITHIN THE PROJECT AREA. HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THIS.

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

ORDER OF SECTION 2 SHEETS

TYPICAL SECTIONS EROSION CONTROL

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP											
			А				С		D				
	SLOPE RANGE (PERCENT)				SLOPE RANGE (PERCENT)			E RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56	
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40	
SIDE SLOPE- TURF	.25 .27 .32 .34		1			.28 .36			.30 .38				
PAVEMENT:	•			•	•	•					•		
ASPHALT						.7095							
CONCRETE						.8095							
BRICK	BRICK .7080												
DRIVES, WALKS						.7585							
ROOFS						.7595							
GRAVEL ROADS, SHO	ULDERS					.4060							

TOTAL PROJECT AREA = 0.30 ACRE

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.11 ACRE



OTHER CONTACTS

DNR LIAISON

JAY SCHIEFELBEIN DNR NORTHEAST REGIONAL HEADQUARTERS 2984 SHAWANO AVENUE GREEN BAY, WI 54313 (920) 360-3784 JEREMIAH.SCHIEFELBEIN@WISCONSIN.GOV

MARATHON COUNTY COMMISSIONER

JAMES GRIESBACH MARATHON COUNTY HIGHWAY DEPARTMENT 500 FOREST STREET WAUSAU, WI 54403 (715) 261-1801 JAMES.GRIESBACH@CO.MARATHON.WI.US

DESIGNER CONTACT

EMCS, INC. 500 NORTH 17TH AVENUE WAUSAU, WI 54401 OFFICE: 715-845-1081

TOWN OF HOLTON

TAYLOR ENSIGN, CLERK 233727 ROSEDALE AVENUE ABBOTSFORD, WI 54405 (715) 316-2040 CLERK@TOWNOFHOLTON.WI.GOV

Ε PROJECT NO: 9517-04-72 **HWY: POPE AVENUE** COUNTY: MARATHON **GENERAL NOTES** SHEET P:\55XX\5591.DP.23.POPE.MAR\CADDS\95170472\SHEETS\020101-GN.DWG PLOT BY: AUSTIN STRAHL FILE NAME : 6/18/2024 9:41 AM 1 IN:100 FT

PLOT NAME :

PLOT SCALE :

2

TYPICAL EXISTING SECTION

STA 10+80 - STA 11+62(P-37-0960) STA 11+85(P-37-0960) - STA 12+80

PROJECT NO: 9517-04-72 HWY: POPE AVENUE COUNTY: MARATHON TYPICAL SECTIONS SHEET **E**

PLOT BY: AUSTIN STRAHL

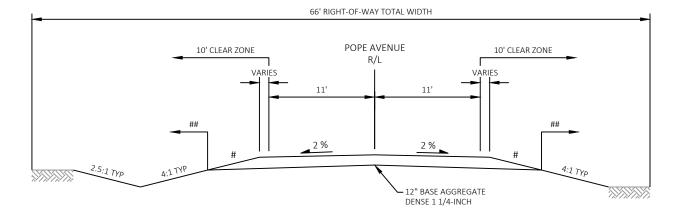
PLOT NAME :

PLOT SCALE :

1 IN:10 FT

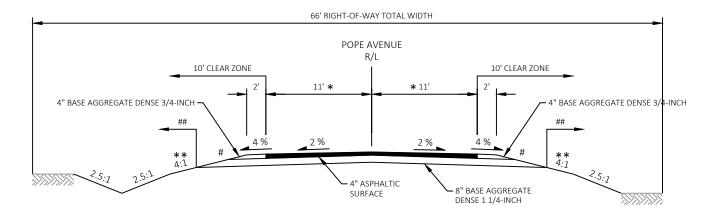
FILE NAME : P:\55XX\5591.DP.23.POPE.MAR\CADDS\95170472\SHEETS\020301-TS.DWG LAYOUT NAME - 01

PLOT DATE : 6/18/2024 11:08 AM



TYPICAL FINISHED SECTION

STA 10+80 - STA 11+00 STA 12+47 - STA 12+80



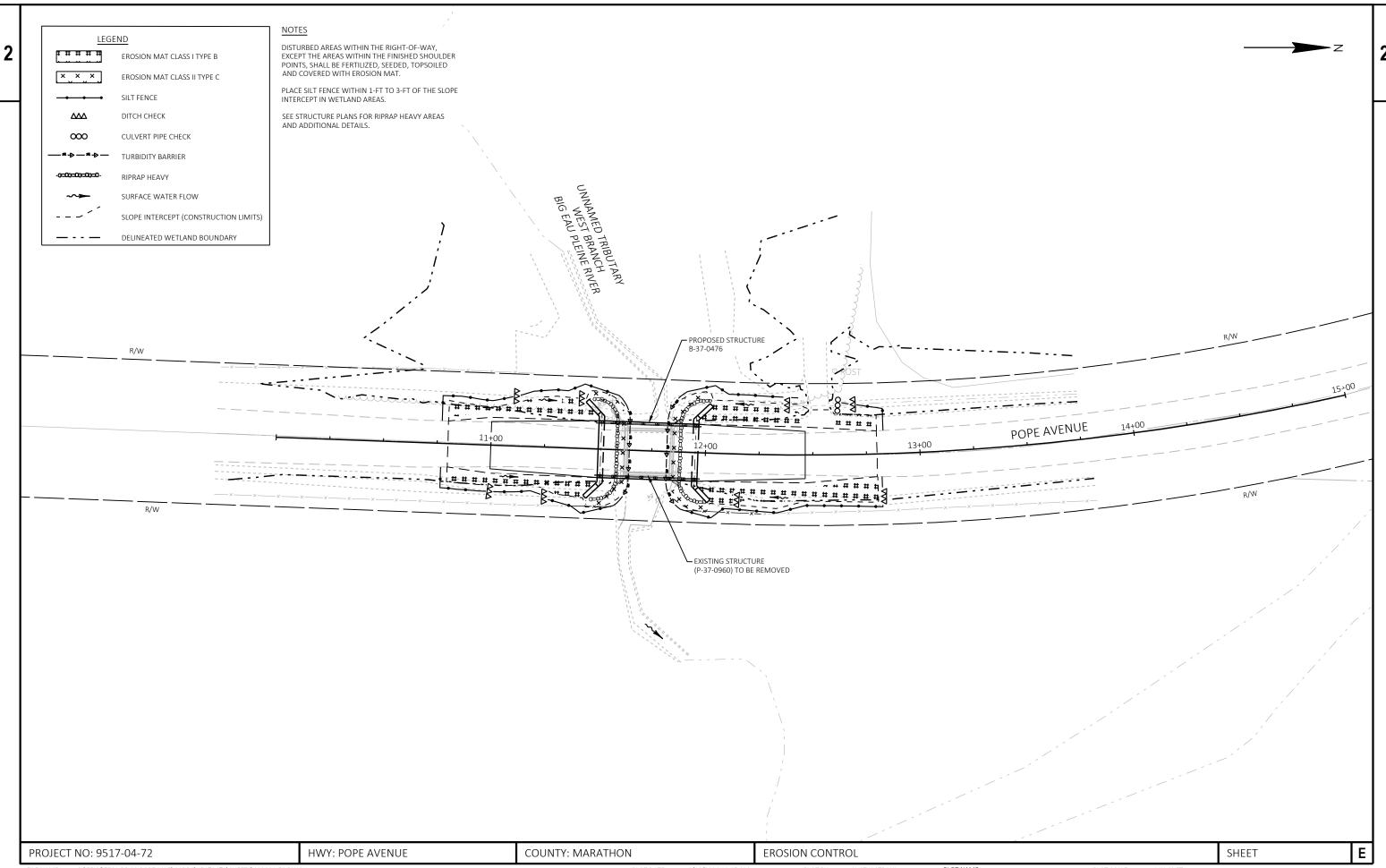
NOTES

- # FERTILIZER AND SEEDING
- ## TOPSOIL, FERTILIZER, SEEDING, AND EROSION MAT
- * ASPHALTIC SURFACE SHALL BE PLACED 26.5' WIDE AT ENDS OF BRIDGE AND TAPER TO 22' WIDE AT 50' FROM THE ENDS OF THE BRIDGE.
- ** SLOPE VARIES TO 3:2:1 MAX AT WING WALLS

TYPICAL FINISHED SECTION

STA 11+00 - STA 11+50(B-37-0476) STA 11+97(B-37-0476) - STA 12+47

PROJECT NO: 9517-04-72 HWY: POPE AVENUE COUNTY: MARATHON Ε TYPICAL SECTIONS SHEET



FILE NAME: PLOT DATE: 6/18/2024 11:25 AM PLOT BY: AUSTIN STRAHL PLOT NAME: PLOT NAME: 1 IN:40 FT WISDOT/CADDS SHEET 44 LAYOUT NAME - 01

DAY

SY

SY

EACH

700.000

1.000

84.000

92.000

700.000

1.000

84.000

92.000

3

					9517-04-72
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	2.000	2.000
0004	201.0205	Grubbing	STA	2.000	2.000
0006	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. P-37-0960	EACH	1.000	1.000
8000	205.0100	Excavation Common	CY	192.000	192.000
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-37-0476	EACH	1.000	1.000
0012	210.1500	Backfill Structure Type A	TON	296.000	296.000
0014	213.0100	Finishing Roadway (project) 01. 9517-04-72	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	20.000	20.000
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	305.000	305.000
0020	455.0605	Tack Coat	GAL	20.000	20.000
0022	465.0105	Asphaltic Surface	TON	60.000	60.000
0024	502.0100	Concrete Masonry Bridges	CY	139.000	139.000
0026	502.3200	Protective Surface Treatment	SY	193.000	193.000
0028	505.0400	Bar Steel Reinforcement HS Structures	LB	3,960.000	3,960.000
0030	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	21,980.000	21,980.000
0032	506.0105	Structural Steel Carbon	LB	540.000	540.000
0034	513.4061	Railing Tubular Type M	LF	98.000	98.000
0036	516.0500	Rubberized Membrane Waterproofing	SY	10.000	10.000
0038	550.0020	Pre-Boring Rock or Consolidated Materials	LF	70.000	70.000
0040	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	190.000	190.000
0042	606.0300	Riprap Heavy	CY	45.000	45.000
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	138.000	138.000
0046	618.0100	Maintenance and Repair of Haul Roads (project) 01. 9517-04-72	EACH	1.000	1.000
0048	619.1000	Mobilization	EACH	1.000	1.000
0050	624.0100	Water	MGAL	5.000	5.000
0052	625.0100	Topsoil	SY	365.000	365.000
0054	628.1504	Silt Fence	LF	450.000	450.000
0056	628.1520	Silt Fence Maintenance	LF	450.000	450.000
0058	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0060	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0062	628.2004	Erosion Mat Class I Type B	SY	290.000	290.000
0064	628.2027	Erosion Mat Class II Type C	SY	90.000	90.000
0066	628.6005	Turbidity Barriers	SY	215.000	215.000
0068	628.7504	Temporary Ditch Checks	LF	125.000	125.000
0070	628.7555	Culvert Pipe Checks	EACH	4.000	4.000
0072	629.0210	Fertilizer Type B	CWT	0.400	0.400
0074	630.0120	Seeding Mixture No. 20	LB	17.000	17.000
0076	630.0500	Seed Water	MGAL	15.000	15.000
0078	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000
0800	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0082	638.2602	Removing Signs Type II	EACH	4.000	4.000
0084	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0086	642.5001	Field Office Type B	EACH	1.000	1.000
0088	643.0420	Traffic Control Barricades Type III	DAY	900.000	900.000
0090	643.0705	Traffic Control Warning Lights Type A	DAY	1,300.000	1,300.000
0000	040.0000	T (0 1 10:	DAY	700.000	700.000

643.0900 Traffic Control Signs

643.5000

645.0111

645.0120

Traffic Control

Geotextile Type HR

Geotextile Type DF Schedule A

0092

0094

0096

10/02/2024 08:22:00

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Pana	2

Estimate Of Quantities

9517-04-7

Line	Item	Item Description	Unit	Total	Qty
0100	650.4500	Construction Staking Subgrade	LF	153.000	153.000
0102	650.5000	Construction Staking Base	LF	153.000	153.000
0104	650.6501	Construction Staking Structure Layout (structure) 01. B-37-0476	EACH	1.000	1.000
0106	650.9911	Construction Staking Supplemental Control (project) 01. 9517-04-72	EACH	1.000	1.000
0108	650.9920	Construction Staking Slope Stakes	LF	153.000	153.000
0110	715.0502	Incentive Strength Concrete Structures	DOL	834.000	834.000
0112	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. STA 11+75	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	600.000	600.000
0118	SPV 0090	Special 01 Salvage and Reinstall Fence	I F	55,000	55,000

2

CLEARING AND GRUBBING ITEMS

201.0105 201.0205 CLEARING STA GRUBBING CATEGORY STATION TO STATION OFFSET 0010 11+00 - 12+00 LT 12+00 - 13+00 LT TOTALS

BASE AGGREGATE ITEMS

						305.0110	305.0120
	CATEGORY	STATION	TO	STATION	OFFSET	BASE AGGREGATE DENSE 3/4-INCH TON	BASE AGGREGATE DENSE 1 1/4-INCH TON
-	CATLOON	STATION	10	STATION	OITSET	1011	TON
	0010						
		10+80	-	11+50	LT & RT	10	125
		11+97	-	12+80	LT & RT	10	180
-	TOTALS					20	305

ASPHALTIC ITEMS

						455.0605	465.0105
						TACK COAT	ASPHALTIC SURFACE
	CATEGORY	STATION	TO	STATION	OFFSET	GAL	TON
	0010						
		10+80	-	11+50	LT & RT	10	30
		11+97	-	12+80	LT & RT	10	30
_							
- 7	TOTALS					20	60

		EART	HWORK SUMN	1ARY			
DIVISION	STATION TO STATION	LOCATION	205.0100 EXCAVATION COMMON (CY)	AVAILABLE MATERIAL	UNEXPANDED FILL	EXPANDED FILL (NOTE 1) FACTOR 1.25	MASS ORDINATE +/- (NOTE 2)
1	10+80 - 11+50	POPE AVENUE SOUTH	74	74	8	11	63
2	11+97 - 12+80	POPE AVENUE NORTH	118	118	15	21	97
TOTALS			192	192	23	32	160

NOTES

1) EXPANDED MATERIAL/FILL = (UNEXPANDED MATERIAL/FILL) * (FILL FACTOR)

2) MASS ORDINATE = AVAILABLE MATERIAL - (EXPANDED FILL)

Ε HWY: POPE AVENUE COUNTY: MARATHON SHEET PROJECT NO: 9517-04-72 MISCELLANEOUS QUANTITIES

CATEGORY STATIO	ON TO STATION OFFSET	628.1504 SILT FENCE LF	628.1520 SILT FENCE	628.2004 EROSION MAT CLASS I TYPE B SY	628.2027 EROSION MAT	628.6005 TURBIDITY BARRIERS SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH			CATEGORY	STATION TO) STATION (FORATION I 625.0100 TOPSOIL SY	629.0210	630.0120 SEEDING MIXTUR NO. 20 LB	630.0500 RE SEED WATE MGAL	:R
11+82	0 - 11+65 LT & RT 2 - 12+80 LT & RT NDISTRIBUTED	180 180 90 450	180 180 90 450	95 135 60 290	35 35 20 90	80 90 45 215	50 50 25 125	3 1 4			0010 TOTALS	10+80 - 11+82 - UNDISTRI	11+65 L 12+80 L	T & RT T & RT	125 165 75 365	0.12 0.18 0.10 0.40	5.5 8.0 3.5 17.0	5 7 3 15	_
										628.1910 MOBILIZATIONS EMERGENCY EROSION CONTRI	OL								
							CATEGOR 0010 TOTALS	Y LOCATIO PROJEC*	<u>EACH</u> 5 5	3 3	_								
			<u>REMO'</u>	OVING SIGNS	638.2602	638.3000								TYPE II S	IGNS AND S	SUPPORTS		634.0614	637.2230
					REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH								5 CIGN 3	SIG DIMEN W X	ISION (H			SIGNS TYPE II REFLECTIVE F
	CATEGORY _S	STATION OFFSE	ET SIGN NUMBER	SIGN MESSAGE	LACIT	EAGIT	-			CATEGOR	RY SIGN NUM	MBER SIGN COD	E SIGN SIZE	E SIGN I	ITE III A	III DES	MIPTION	LACII	SF

FILE NAME: PLOT DATE: 6/3/2024 8:02 AM PLOT BY: AUSTIN STRAHL PLOT NAME: PLOT NAME: 1" = 1' WISDOT/CADDS SHEET 42 LAYOUT NAME - 02

MISCELLANEOUS QUANTITIES

SHEET

E

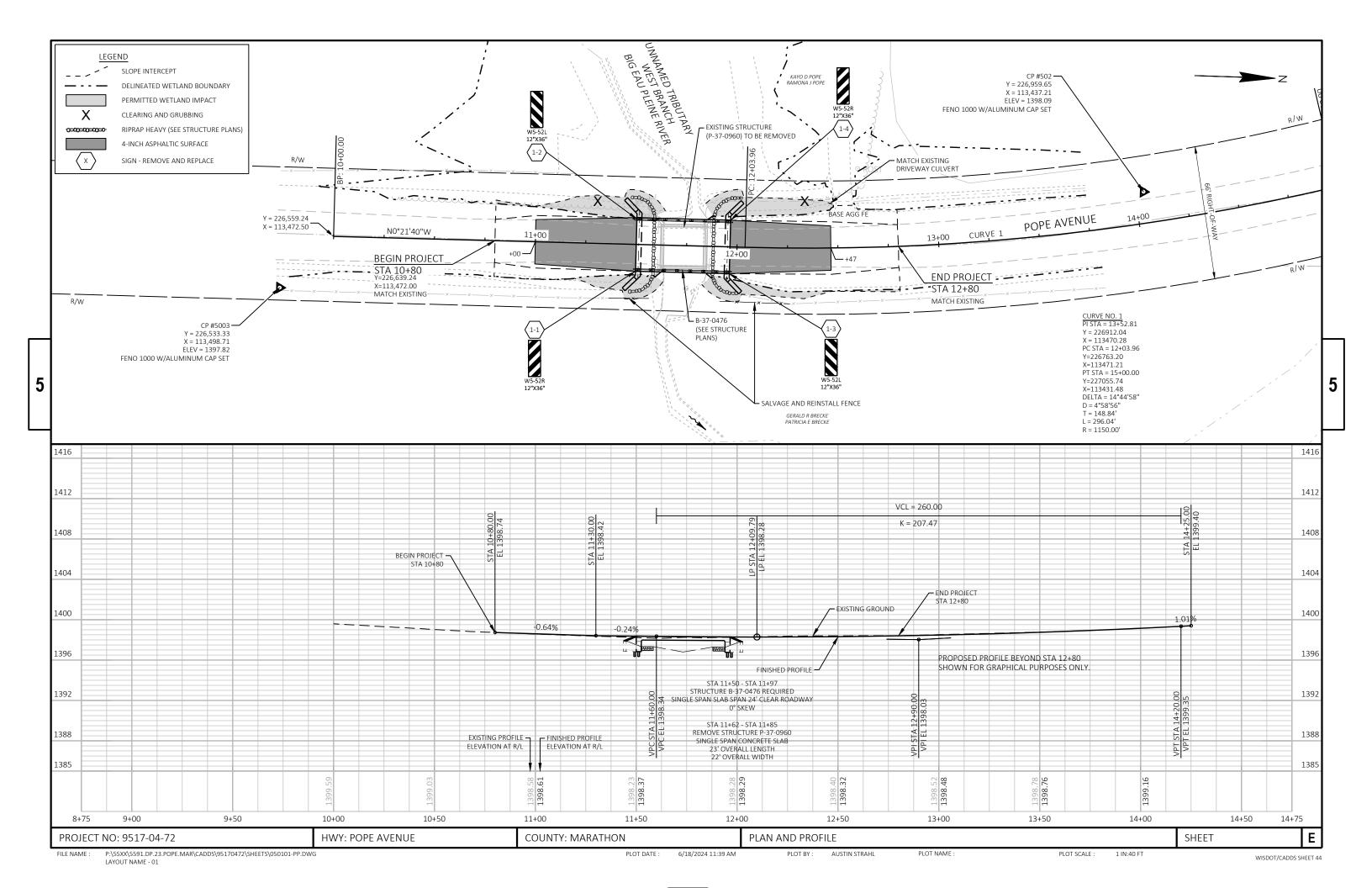
COUNTY: MARATHON

HWY: POPE AVENUE

PROJECT NO: 9517-04-72

TRAFFIC CONTROL ITEMS WATER 643.0420 643.0900 643.0705 TRAFFIC TRAFFIC 624.0100 CONTROL CONTROL CATEGORY MGAI BARRICADES TYPE WARNING LIGHTS
I III TYPE A TRAFFIC <u>DURATION</u> CONTROL SIGNS CATEGORY STAGE LOCATION NO. DAY DAYS PROJECT - BASE COMPACTION PROJECT - COMMON EXCAVATION PROJECT LIMITS 26 1,300 14 700 18 900 TOTAL TOTALS 900 1,300 STAKING ITEMS 650.9911.01 CONSTRUCTION 650.4500 650.5000 650.6501.01 650.9920 SALVAGE AND REINSTALL FENCE CONSTRUCTION CONSTRUCTION CONSTRUCTION STAKING CONSTRUCTION STAKING STRUCTURE SUPPLEMENTAL SUBGRADE STAKING BASE LAYOUT (B-37-0476) CONTROL (9517-04-72) STAKING SLOPE STAKES SPV.0090.01 CATEGORY STATION TO STATION OFFSET CATEGORY STATION TO STATION OFFSET EACH 11+37 - 11+57 RT 11+91 - 12+26 RT 10+80 - 11+50 LT & RT 11+97 - 12+80 LT & RT 70 83 35 83 83 TOTAL PROJECT 1 1 TOTALS Ε PROJECT NO: 9517-04-72 HWY: POPE AVENUE COUNTY: MARATHON MISCELLANEOUS QUANTITIES SHEET P:\55XX\5591.DP.23.POPE.MAR\CADDS\95170472\SHEETS\030201-MQ.DWG PLOT DATE : 6/3/2024 8:02 AM PLOT BY: AUSTIN STRAHL PLOT NAME : PLOT SCALE : FILE NAME :

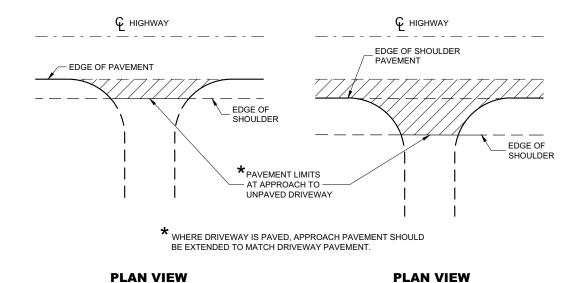
ME: P:\55XX\5591.DP.23.POPE.MAR\CADDS\95170472\SHEETS\030201-MQ.DWG PLOT DATE: 6/3/2024 8:02 AM PLOT BY: AUSTIN STRAHL PLUT NAME: 1" = 1" WISDOT/CADDS SHEET 42
LAYOUT NAME - 03



Standard Detail Drawing List

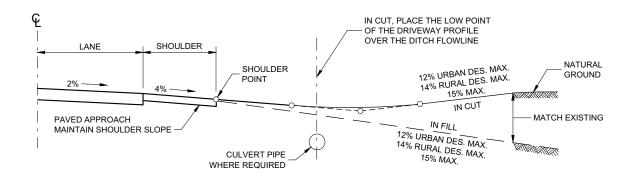
8D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
8E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
8E09-06	SILT FENCE
8E11-02	TURBIDITY BARRIER
8E15-01	CULVERT PIPE CHECK
.2A03-10	NAME PLATE (STRUCTURES)
.3C19-03	HMA LONGITUDINAL JOINTS
.5C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
.5С02-09В	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
.5C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
.5C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
.5C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6

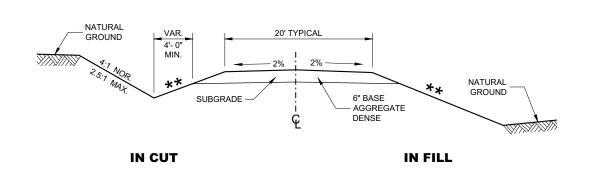


RURAL DRIVEWAY INTERSECTION DETAIL (NO CURB AND GUTTER OR SIDEWALK)

(PAVED SHOULDER ON HIGHWAY)



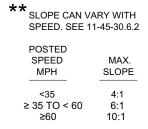
TYPICAL DRIVEWAY PROFILES

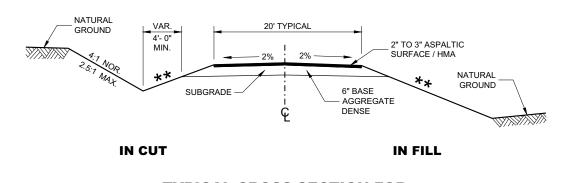


TYPICAL CROSS SECTION FOR

PRIVATE DRIVE OR FIELD ENTRANCE **AGGREGATE SURFACE**

(UNPAVED SHOULDER ON HIGHWAY)





TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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08D21

SD

SDD 08D21

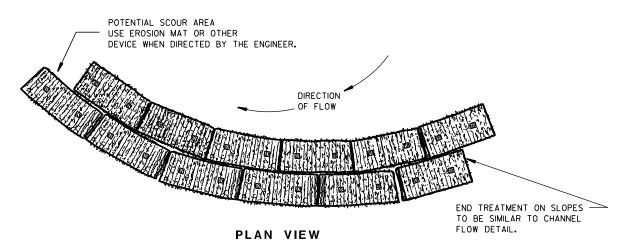
6

December 2017 DATE

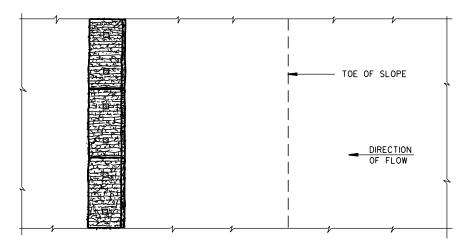
GENERAL NOTES

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

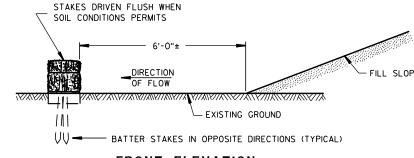
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- \bigcirc HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

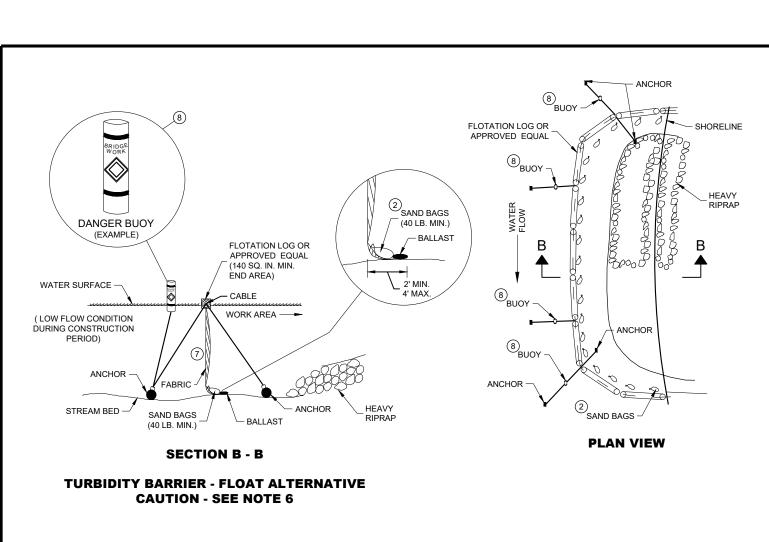
(WHEN REQUIRED BY THE ENGINEER)

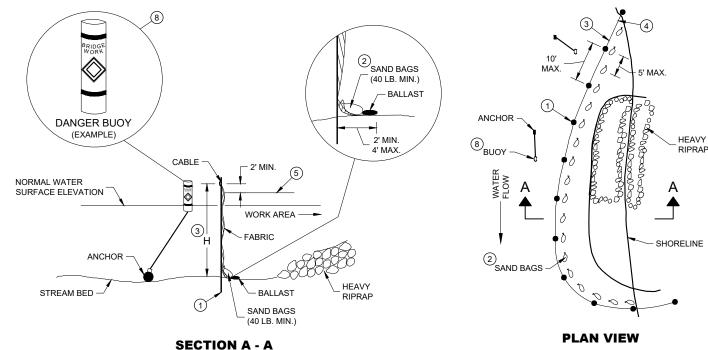


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D.D. 8 E 9-6





TURBIDITY BARRIER - STANDARD POST INSTALLATION

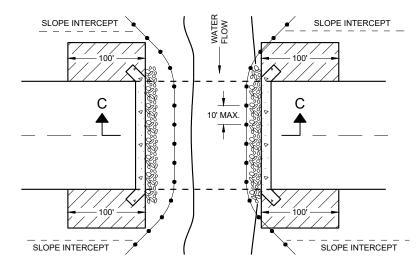
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

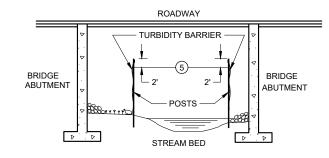
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER STATE OF WISCONSIN

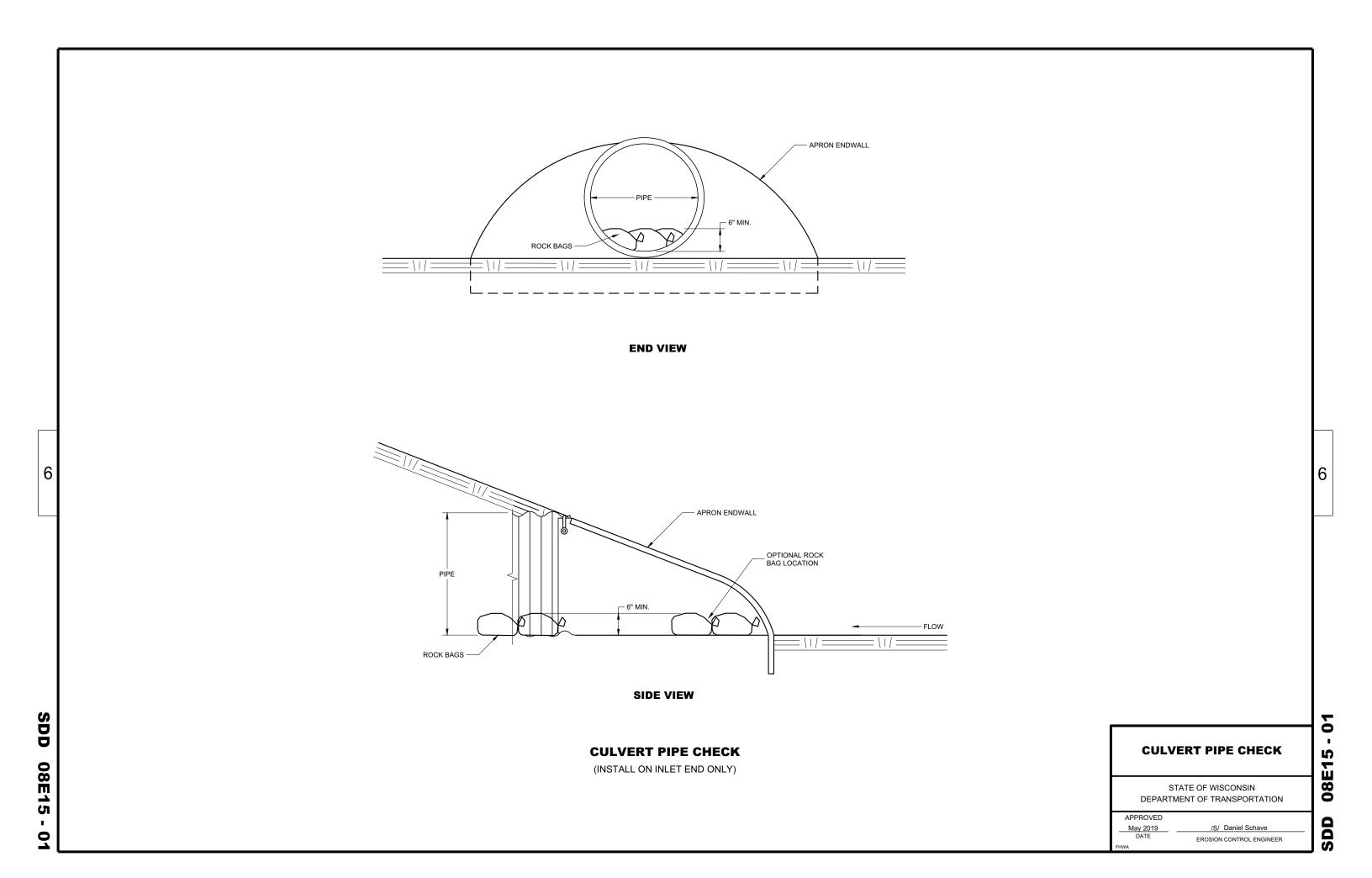
DEPARTMENT OF TRANSPORTATION

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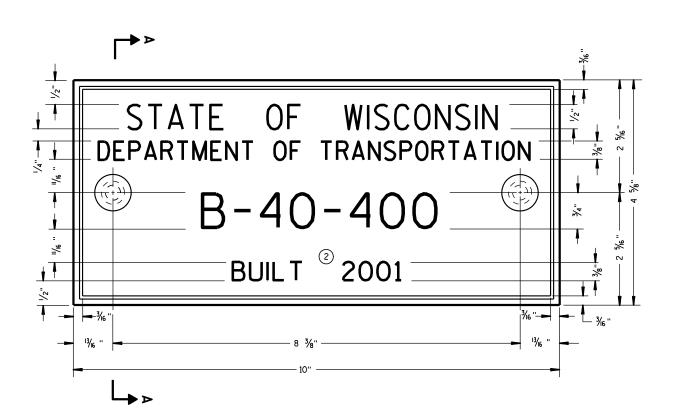
6/4/02 /S/ Beth Cannestra

DATE CHIEF ROADWAY DEVELOPMENT
ENGINEER

APPROVED

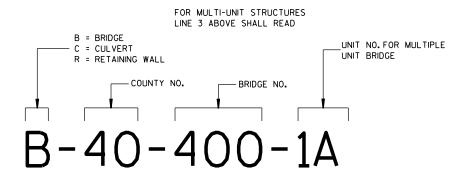






TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



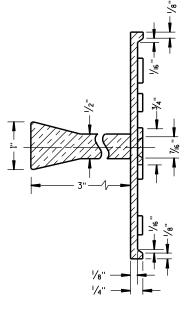
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

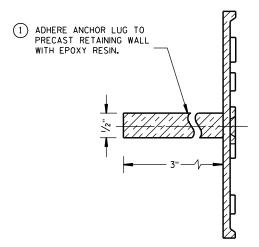
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

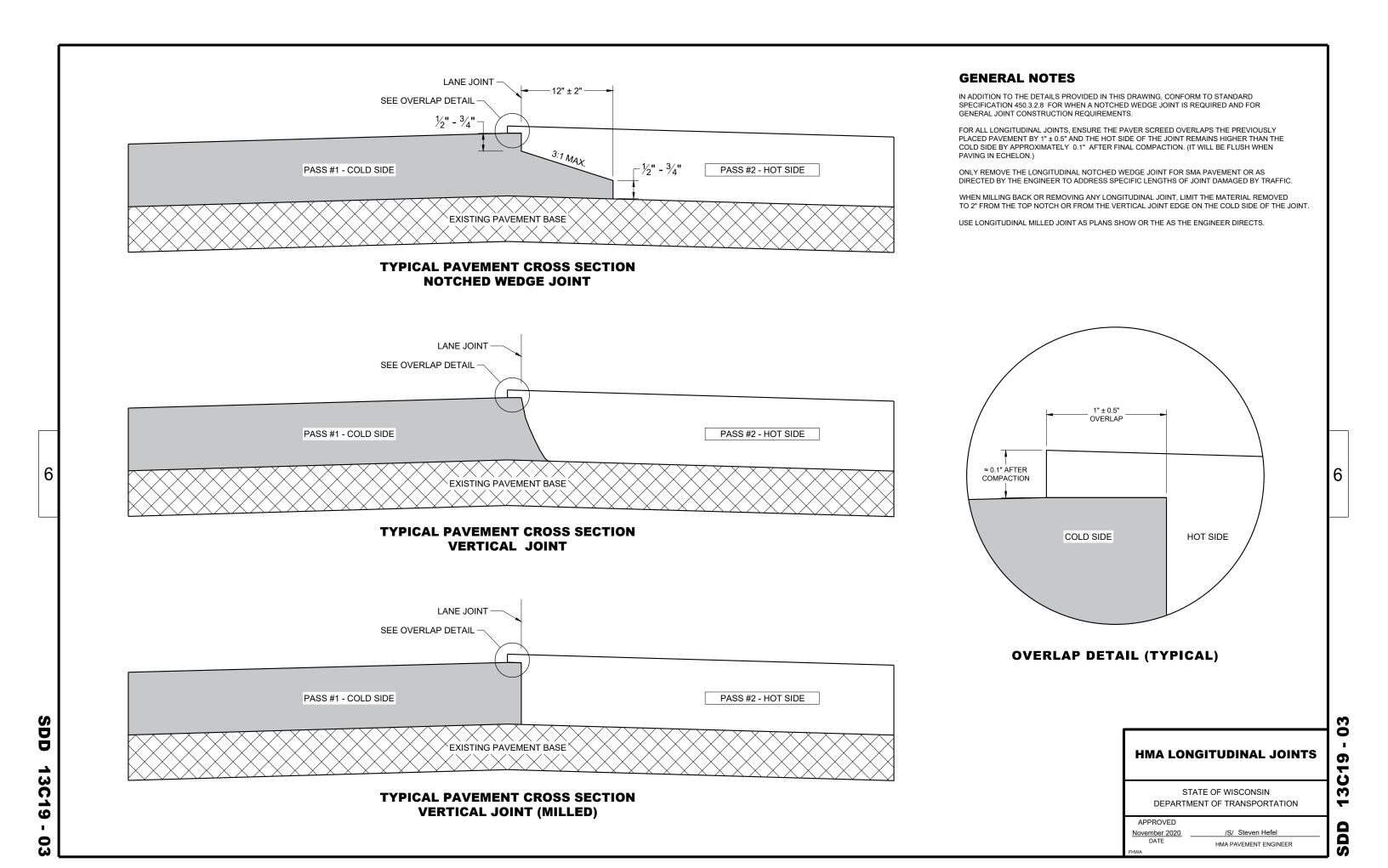
APPROVED

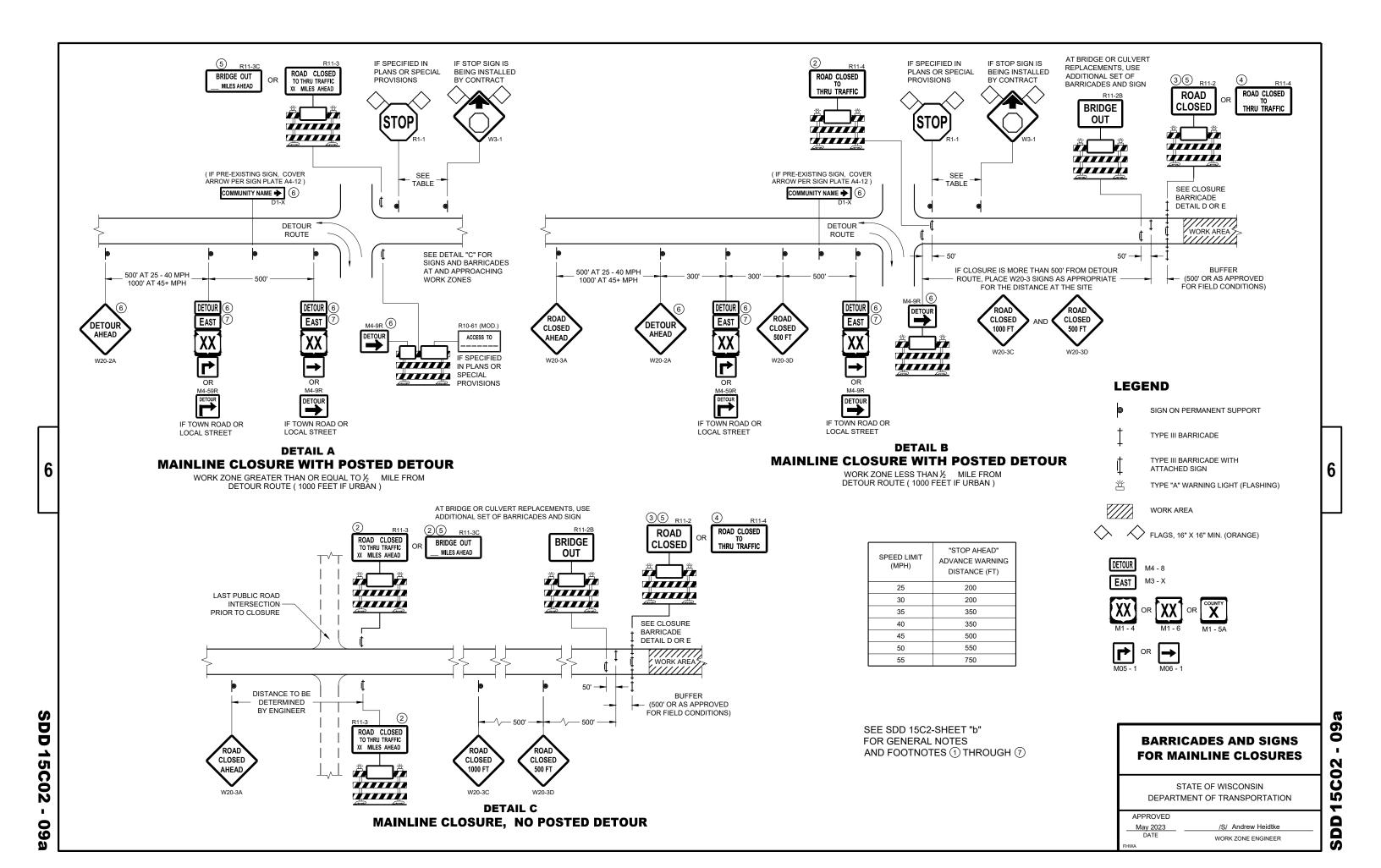
3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

3-10





TWO- WAY

TYPE "A" WARNING

LIGHTS REQUIRED

12" MAX. →

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

BRIDGE

OUT

ROAD

CLOSED

RAMP

CLOSED

DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

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

R1 - 1 SHALL BE 36" X 36"

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 2 AND R11 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

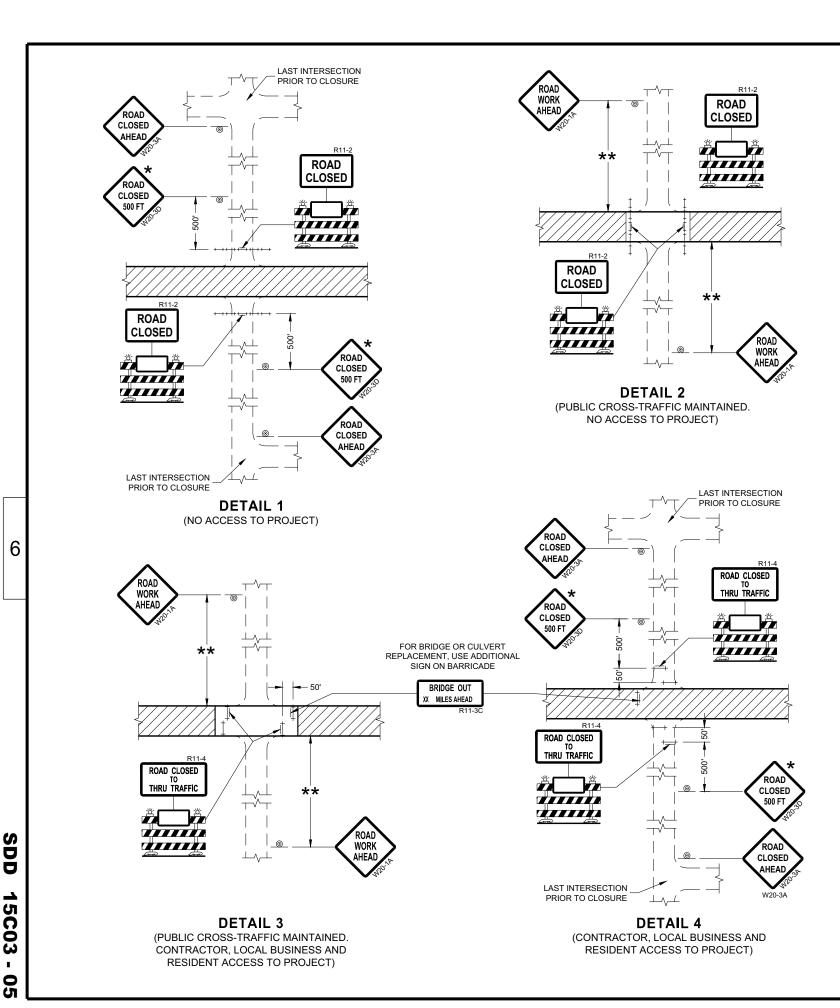
APPROVED May 2023

May 2023 /S/ Andrew Heidtke

DATE WORK ZONE ENGINEER

015C02 -

Ò



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30". R11-4 AND R11-3 SHALL BE 60" X 30".

- ★ OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.
- ** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

BARRICADES AND SIGNS FOR **SIDEROAD CLOSURES**

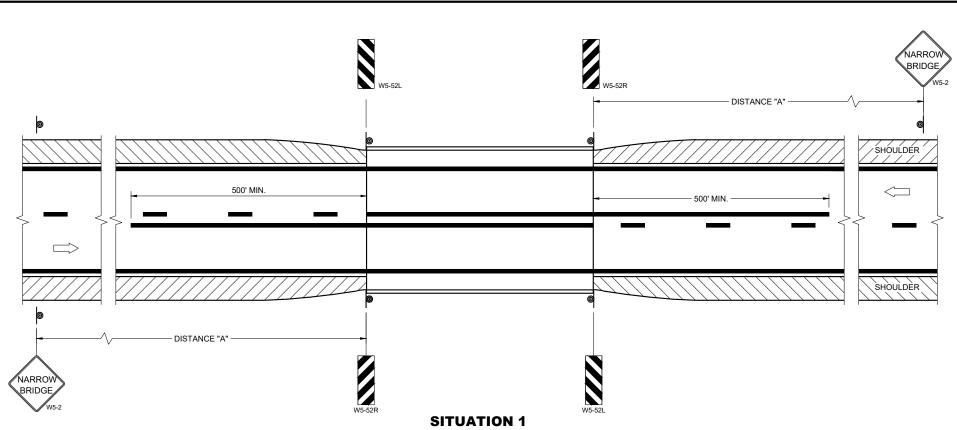
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED July 2018 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER ŭ

S



SDD 15C06-12



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

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

SITUATION 2

SDD

15C06-12

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

GENERAL NOTES

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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

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

SIGNING AND MARKING FOR TWO LANE BRIDGES

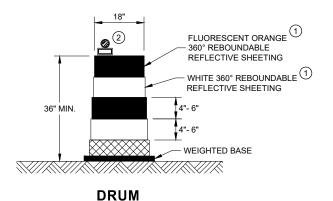
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

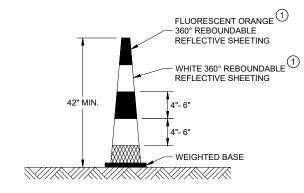
SDD 15C11

GENERAL NOTES

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

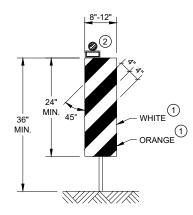


BALLAST WIDTHS RANGE FROM 24"-36"



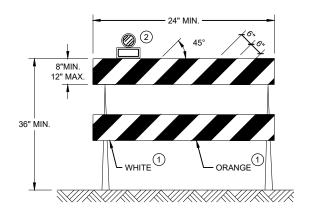
42" CONE

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



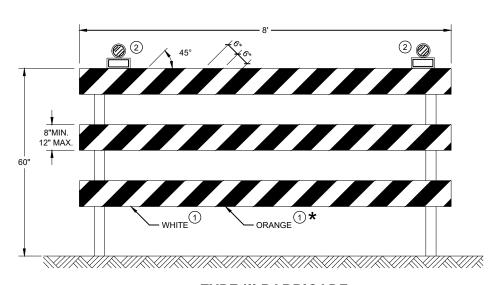
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

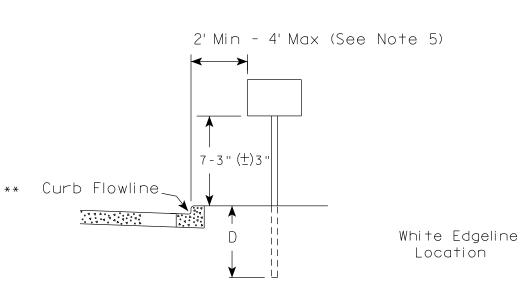
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

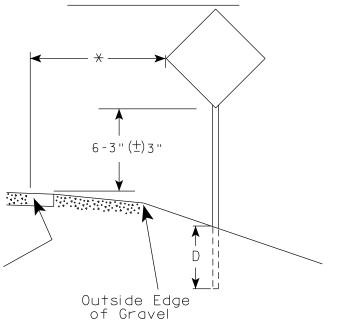
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 50

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





RURAL AREA (See Note 2)



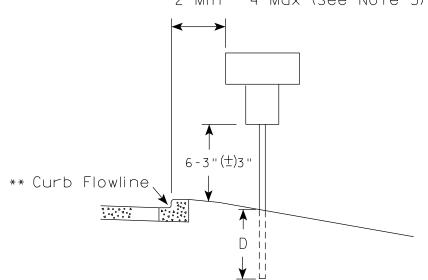
GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

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

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

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

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

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

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. __A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

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



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

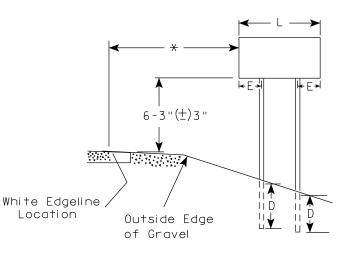
PLOT NAME :

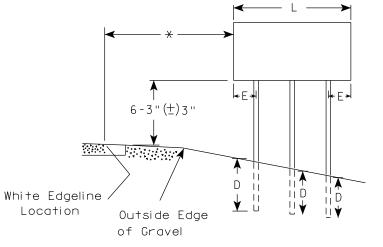
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

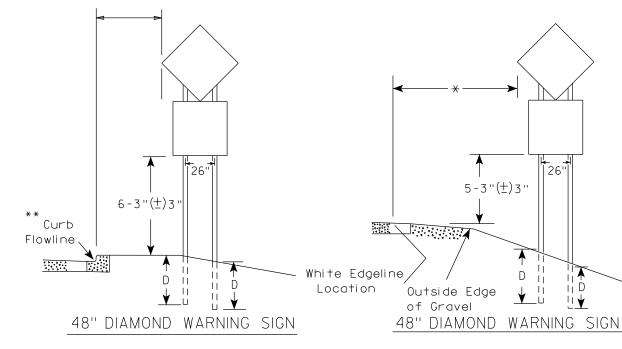
APPROVED

WISDOT/CADDS SHEET 42





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



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

HWY:

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

GENERAL NOTES

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

POST EMBEDMENT DEPTH

	ı
Area of Sign	
Installation	D
(Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CUEET NO.

SHEET NO:

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

PROJECT NO:

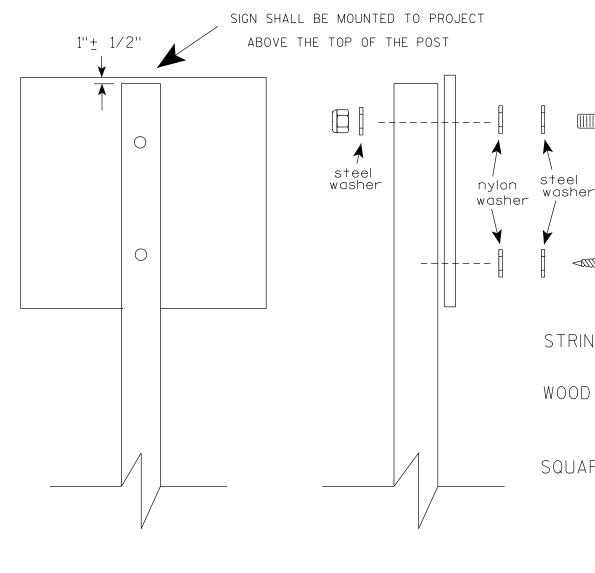
COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

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



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

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

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 1/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

APPROVED

DATE 4/1/2020

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

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

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:



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

DATE 2/05/15

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

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

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

CHANNEL

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

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

PROJECT NO:

31/2"

VIEW FROM TOP

GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED //

DATE 4/19/2022 PLATE NO. _A5-10.3

ATE 4/19/2022 PLATE NO. _

SHEET NO:

SIGN

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

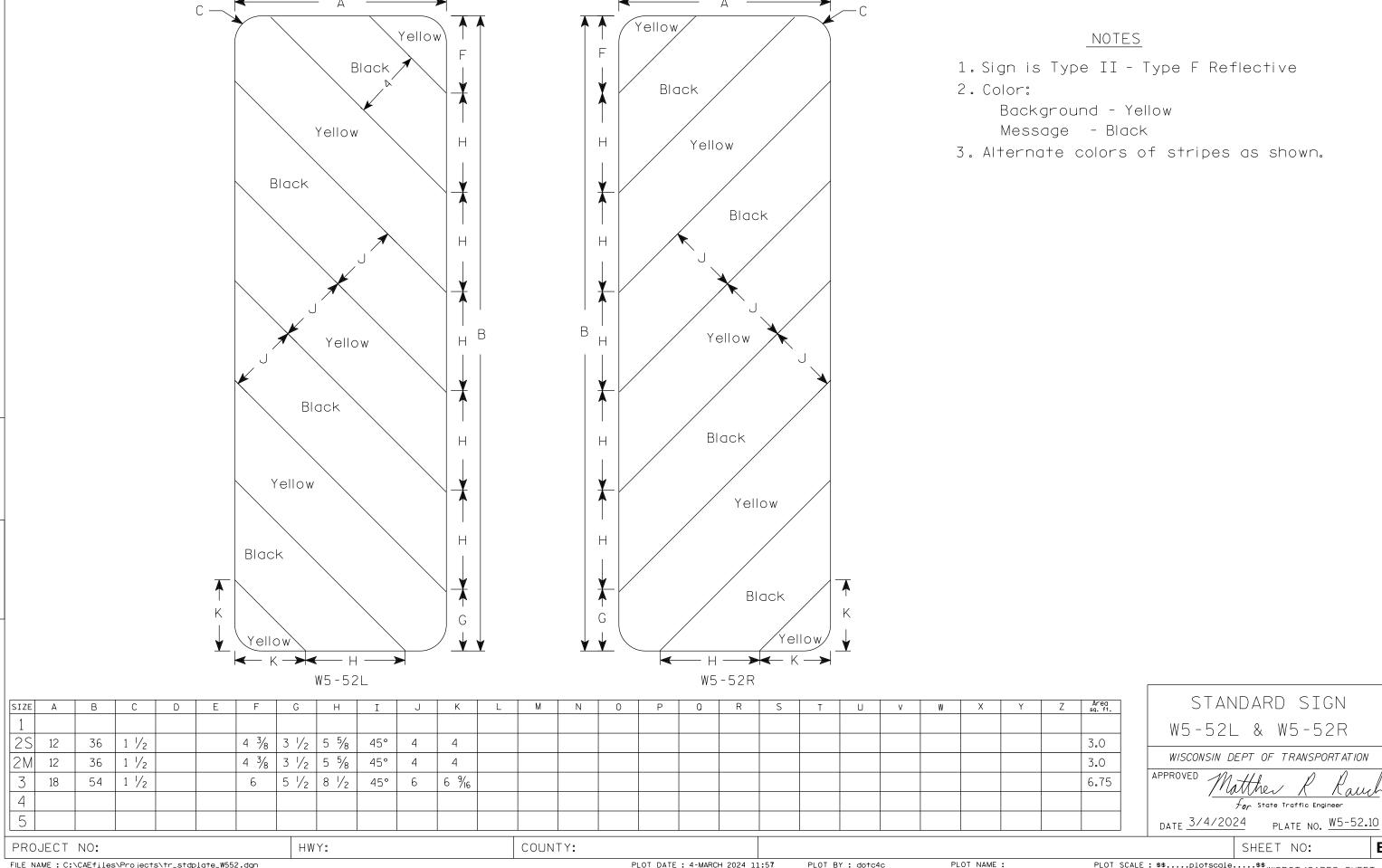
PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

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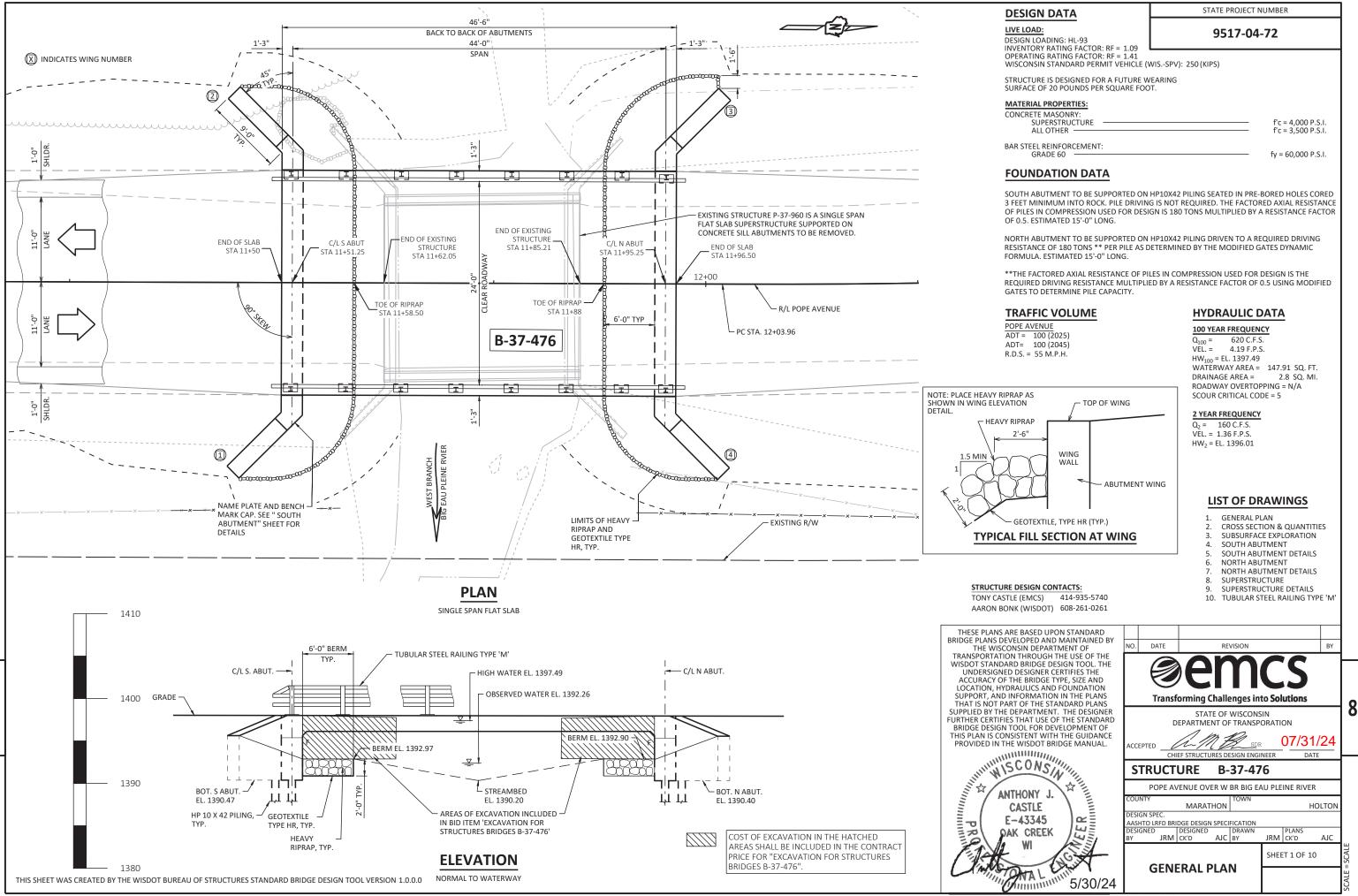


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PLOT DATE: 4-MARCH 2024 11:57

PLOT BY : dotc4c

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



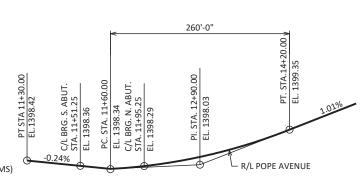
TOP OF PAVEMENT **→** A **ELEVATION** SECTION A-A SECTION B-B PLAN

ABUTMENT BACKFILL DIAGRAM

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

CROSS SECTION THRU ROADWAY

LOOKING UPSTATION (PILING NOT SHOWN FOR CLARITY)

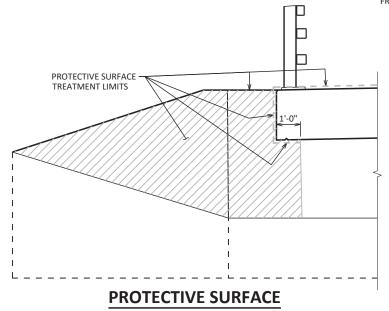


PROFILE GRADE LINE

TOTAL ESTIMATED QUANTITIES

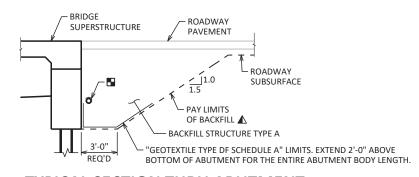
BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	S. ABUT.	N. ABUT.	TOTALS
203.0250	REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS P-37-960	EACH				1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-37-476	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON		148	148	296
502.0100	CONCRETE MASONRY BRIDGES	CY	89	25	25	139
502.3200	PROTECTIVE SURFACE TREATMENT	SY	163	15	15	193
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		1,980	1,980	3,960
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	18,980	1,500	1,500	21,980
506.0105	STRUCTURAL STEEL CARBON	LB	540			540
513.4061	RAILING TUBULAR TYPE M	LF	98			98
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		5	5	10
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF		70		70
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		95	95	190
606.0300	RIPRAP HEAVY	CY		22	23	45
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		69	69	138
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		42	42	84
645.0120	GEOTEXTILE TYPE HR	SY		45	47	92
	NON-BID ITEMS					
	FILLER	SIZE				1/2", 3/4"

THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.0.0.0



- BOTTOM OF ABUTMENT

TREATMENT DETAILS



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. UNDERDRAIN DISCHARGE ELEVATION SHOULD BE PLACED AT MINIMUM OF 1393.26

GENERAL NOTES

9517-04-72

STATE PROJECT NUMBER

DRAWINGS SHALL NOT BE SCALED.

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

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-37-476" SHALL BE THE EXISTING

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.

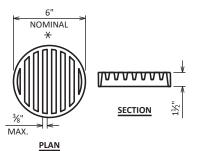
THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE

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.

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.

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

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

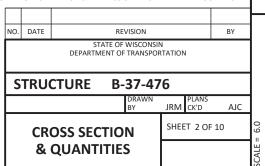


RODENT SHIELD DETAIL

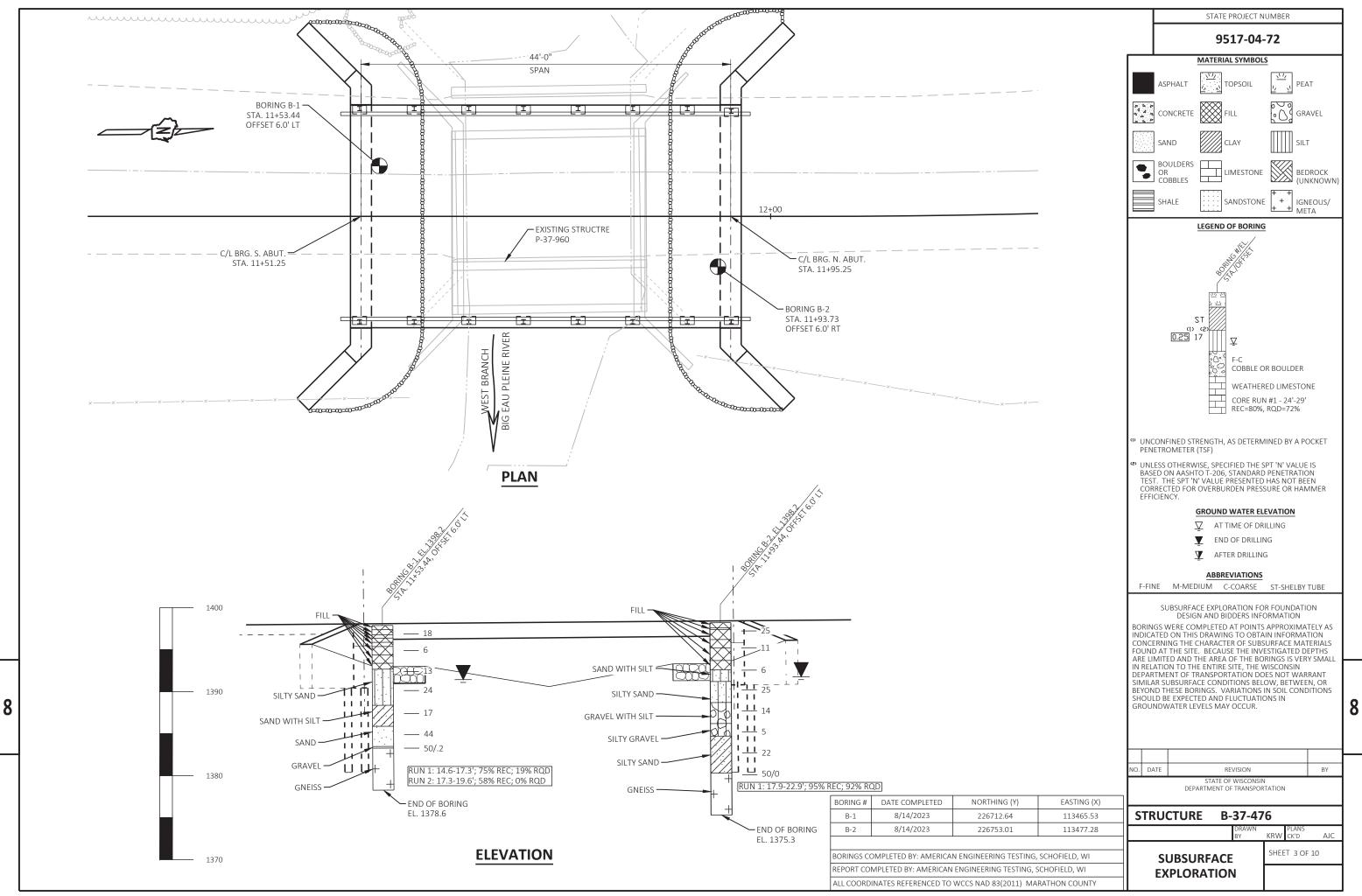
★ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

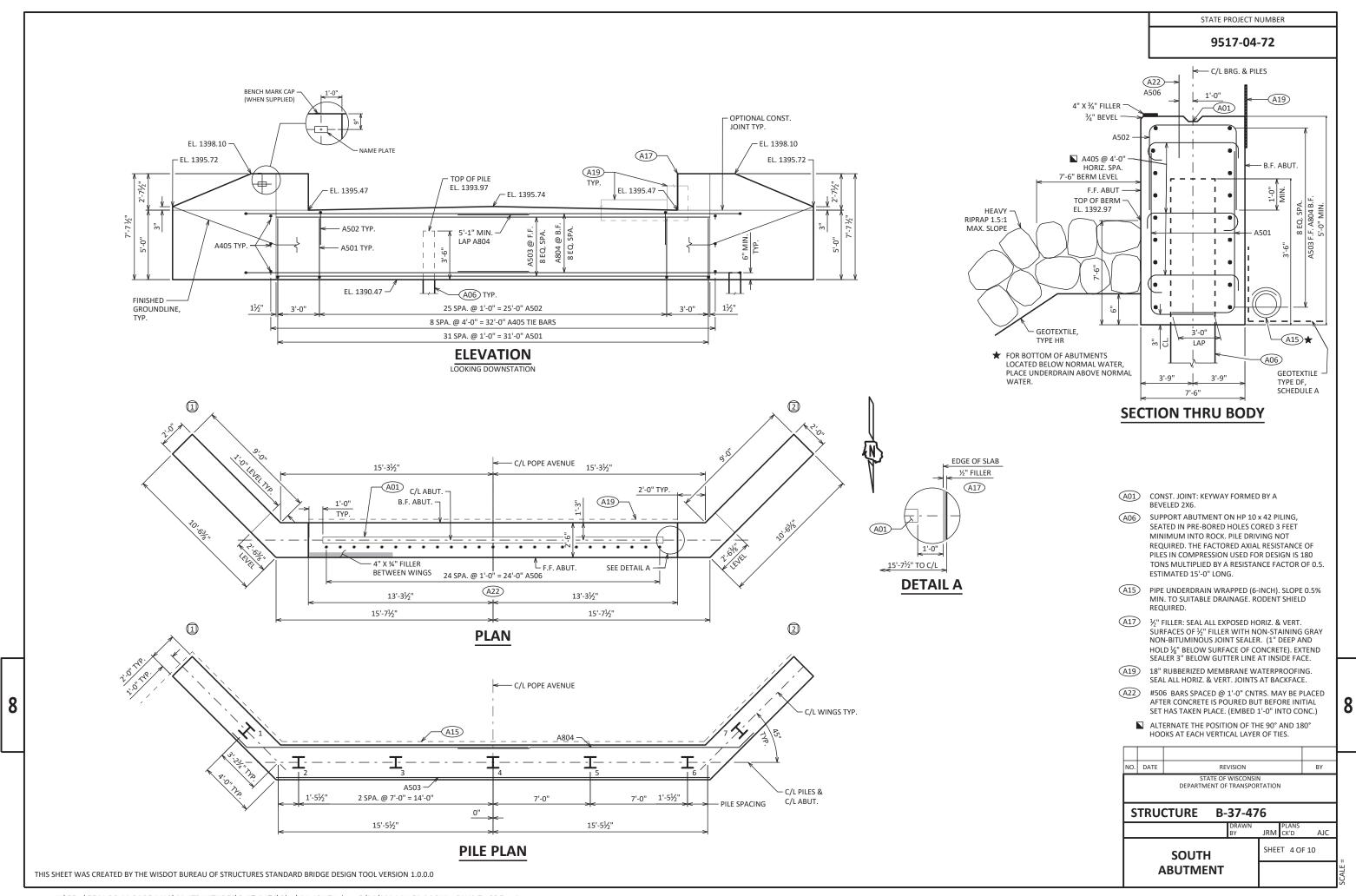
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

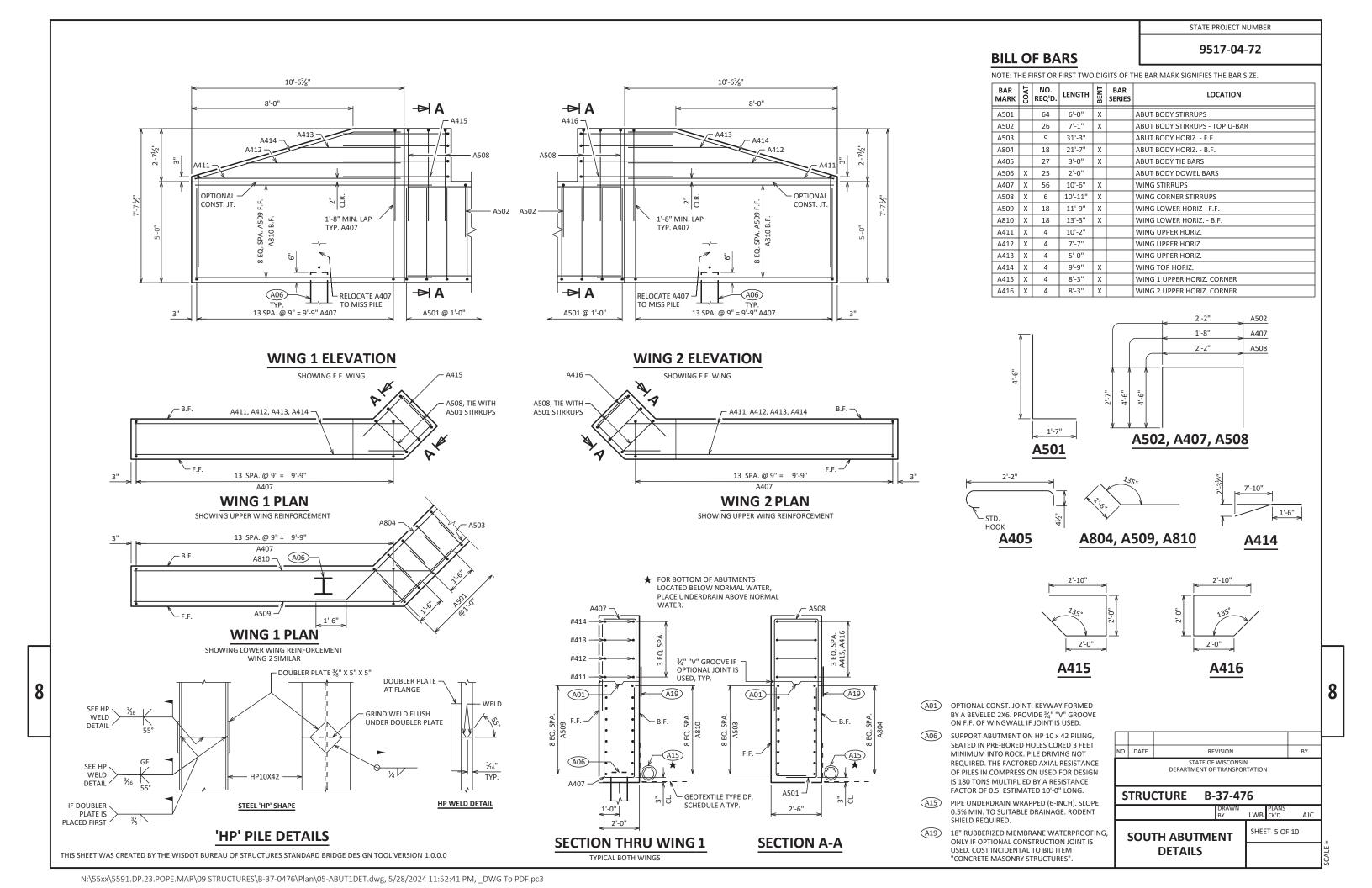
THE RODENT SHIFLD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X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

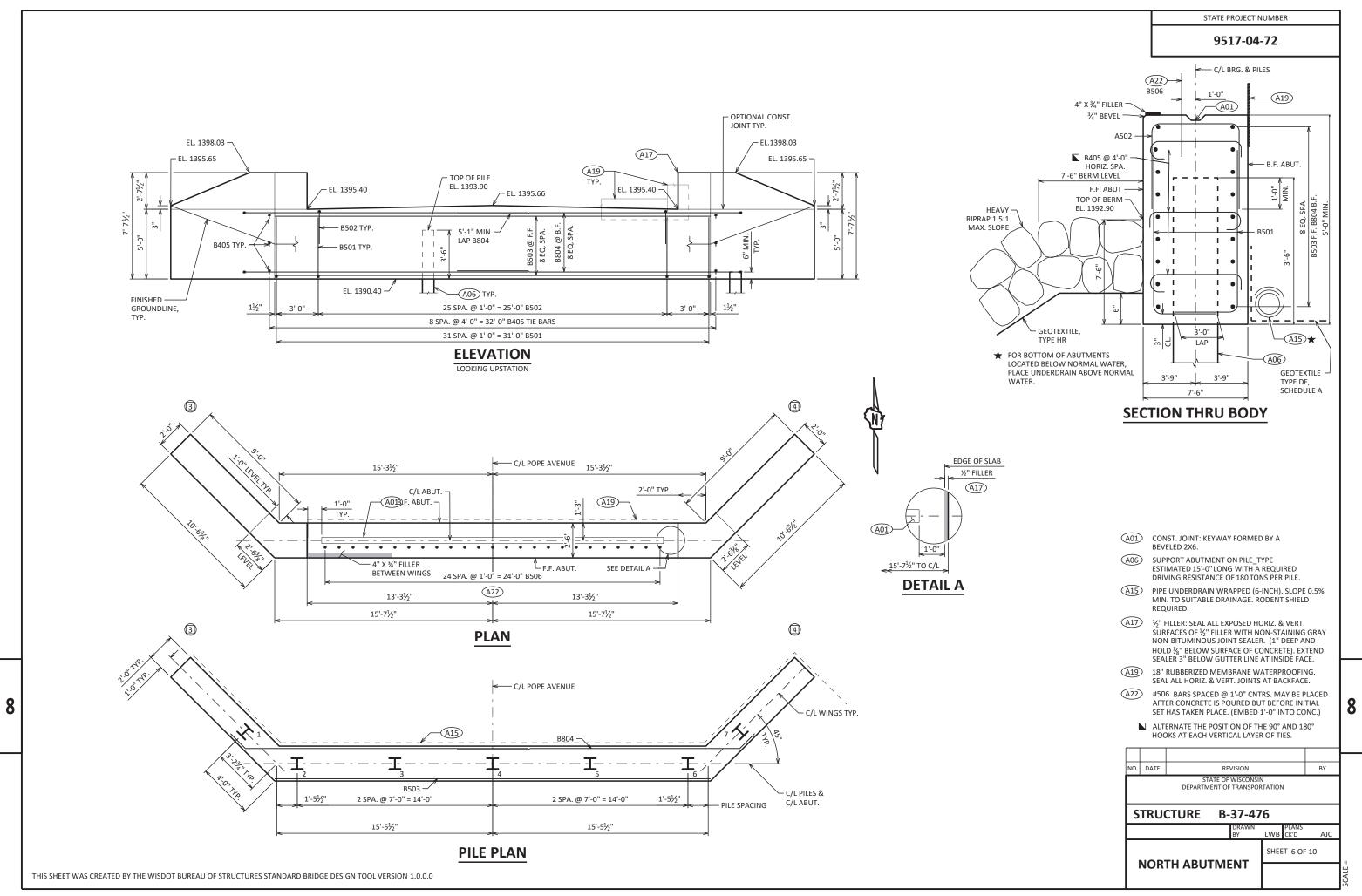


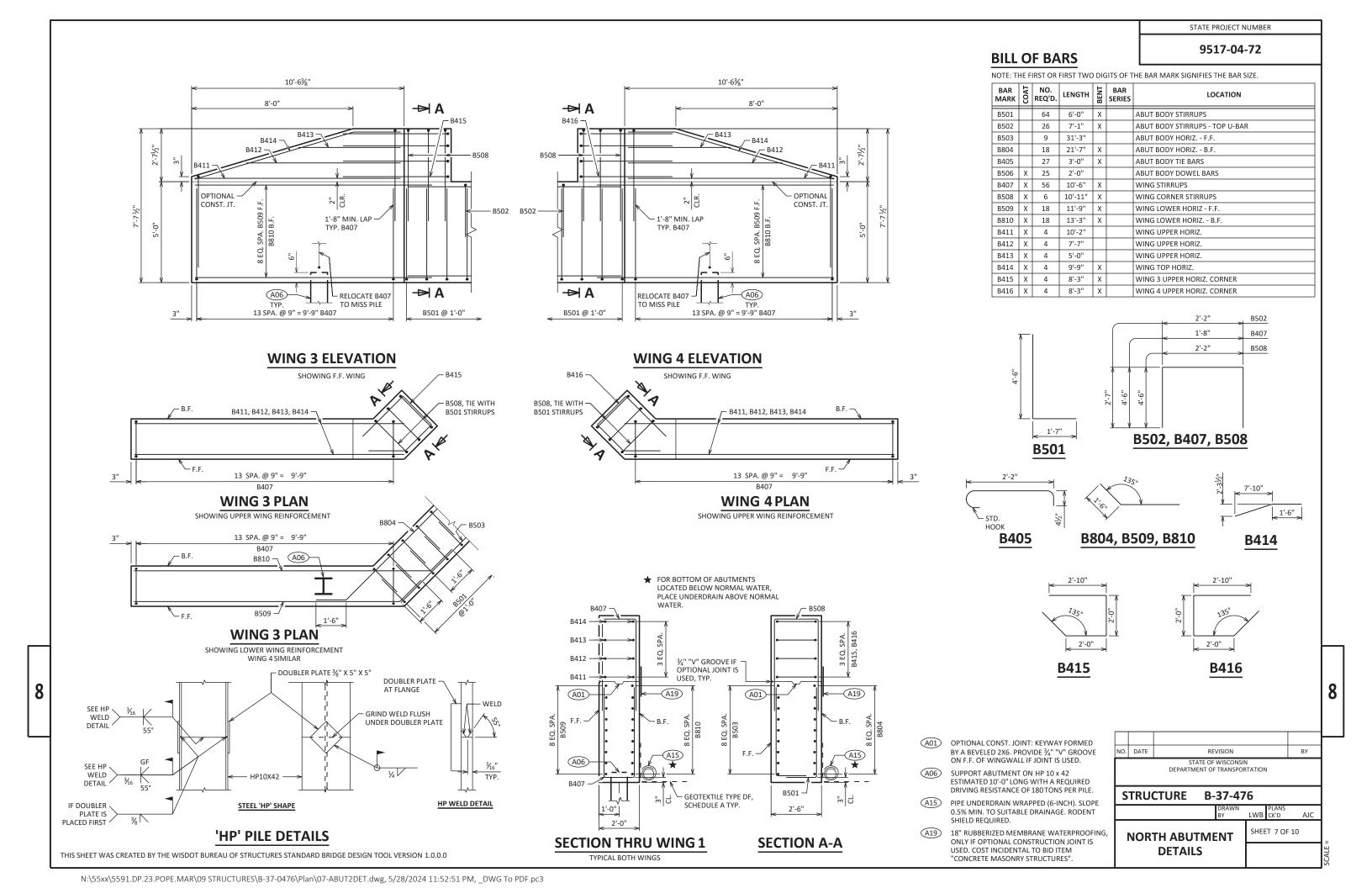
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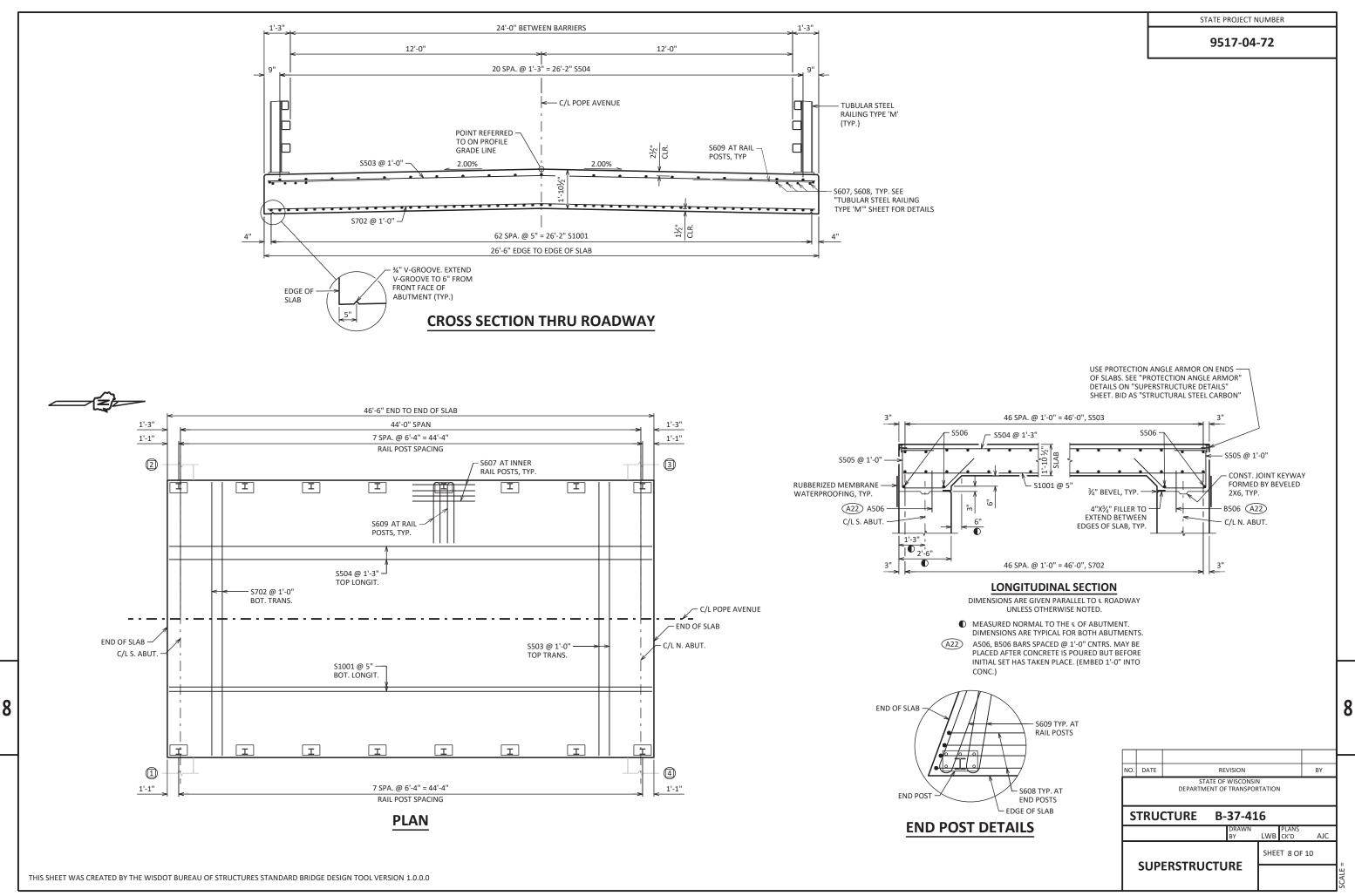












CAMBER AND SLAB THICKNESS DIAGRAM

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 PARAPETS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED, EXCEPT FOR STAGED CONSTRUCTION.

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

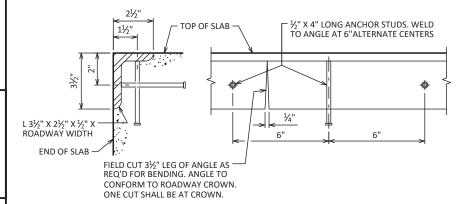
TOP OF SLAB ELEVATION AT FINAL GRADE

PLUS CAMBER

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

TOP OF SLAB ELEVATIONS

	S. ABUT	0.1 PT	0.2 PT	0.3 PT	0.4 PT	0.5 PT	0.6 PT	0.7 PT	0.8 PT	0.9 PT	N ABUT
W EOD	1398.10	1398.09	1398.08	1398.07	1398.07	1398.06	1398.05	1398.04	1398.04	1398.03	1398.02
PGL	1398.36	1398.35	1398.35	1398.34	1398.33	1398.32	1398.32	1398.31	1398.30	1398.29	1398.29
E EOD	1398 10	1398 09	1398 08	1398 07	1398 07	1398.06	1398.05	1398 04	1398 04	1398 03	1398 02



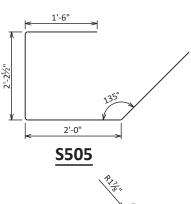
PROTECTION ANGLE ARMOR

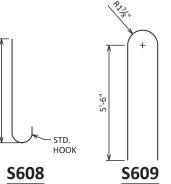
SANDPLAST PROTECTION ANGLE AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING" AFTER BLAST CLEANING, THE PROTECTION ANGLE SHALL BE HOT DIPPED GALVANIZED.

ANGLE AND STUDS TO BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL STEEL CARBON". (NO PAINT REQ'D.)

NO SPLICE SHALL BE PERMITTED IN ANGLES.

THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.0.0.0





BILL OF BARS

9517-04-72

STATE PROJECT NUMBER

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

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION	
S1001	Х	63	46'-2"			SLAB BOTTOM LONGITUDINAL	
S702	Х	47	26'-2"			SLAB BOTTOM TRANSVERSE	
S503	3 X 47 26'-2" SL			SLAB TOP TRANSVERSE			
S504	04 X 21 46'-2"			SLAB TOP LONGITUDINAL			
S505	5 X 54 7'-6" X ABUTMENT			ABUTMENT DIAPHRAGM STIRRUPS			
S506	506 X 4 26'-2"			ABUTMENT DIAPHRAGM LONGITUDINAL			
S607	Х	48	6'-0"			SLAB TOP LONGIT. UNDER RAIL POSTS	
S608	Х	16	4'-8"	Х		SLAB TOP LONGIT. UNDER RAIL END POSTS	
S609	Х	32 12'-0" X			SLAB TOP HOOKS UNDER RAIL POSTS		

SURVEY TOP OF SLAB ELEVATIONS

LOCATION	ABUTMENT	5/10 PT.	ABUTMENT
W. GUTTER			
CROWN OR R/L			
E. GUTTER			

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

NOTES

FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FOR EACH SPAN ON AS BUILT PLANS.

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

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

		I				ı				
NO.	DATE	BY								
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
S	STRUCTURE B-37-476									
				DRAWN BY	LWB	PLANS CK'D	AJC			
	SUP	ERSTRU	CTU	IRE	SHE	PLANS				
		DETAIL	LS							

8

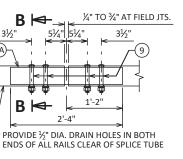
9517-04-72

LEGEND

- C/L RAIL

POST

- (1) W6 x 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 $\frac{1}{4}$ " x 11 $\frac{3}{4}$ " x 1'-8" WITH 1 $\frac{7}{16}$ " OVERSIZED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.
- 3) ASTM A449 1 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 $10\,\%"$ 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
- 4 $\frac{1}{3}$ x 11" x 1'-8" ANCHOR PLATE (GALVANIZED) WITH $\frac{1}{3}$ 6" DIA. HOLES FOR ANCHOR BOLTS NO. 3.
- 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.
- $6\ \%$ " DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, $\frac{3}{16}$ " X 1 $\frac{5}{8}$ " X 1 $\frac{5}{8}$ " MIN. WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION).
- 7 SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT"
- (8) 3/11 X 3 5/11 X 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.
- 8A %" X 2 %" X 2'-4" PLATE USED IN NO. 5, %" X 3 %" X 2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.
- 9~% " dia. A325 round head bolt with nut, washer, and lock washer. Use $^1\%_6$ " x 1 % " longit. Slotted holes in plate no. 10a at field joints and $^1\%_6$ " x 2 % " min. longit. Slotted holes at exp. Joints in plate NO. 8A. PROVIDE ¹⁵/₁₆" DIA. ROUND HOLES IN TUBES NO. 5 AND NO. 5A.







SECTION THRU RAILING ON DECK

23/4"

BE VERTICAL

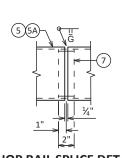
88°51'15'

PLACE BELOW TOP MAT OF SLAB REINFORCEMENT

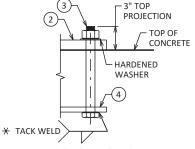
▲ TIE TO TOP MAT OF STEEL.

▲ S609

-S607, S608



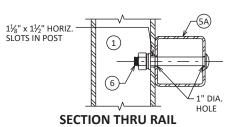
SHOP RAIL SPLICE DETAIL LOCATION MUST BE SHOWN ON SHOP DRAWINGS



SECTION B-B

ANCHOR BOLTS

* ANCHOR BOLT ASSEMBLY MAY BE TACK WELDED, EITHER IN THE SHOP, OR IN THE FIELD AFTER THE ANCHOR PLATE IS PLACED.



TYP.

SECTION THRU POST WEB

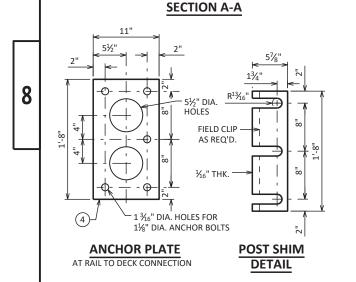
C/L TS

NOTE: CONNECTIONS AT LOWER RAILS SHOWN. CONNECTIONS AT TOP RAIL SIMILAR.

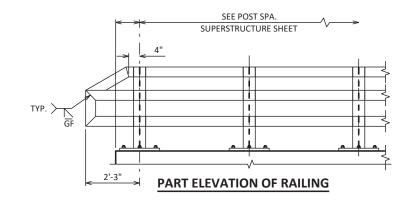
TYPICAL RAIL TO POST CONNECTIONS

GENERAL NOTES

- 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 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.
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE
- 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.



113/4"



NO. DATE DEPARTMENT OF TRANSPORTATION STRUCTURE B-37-476 SHEET 10 OF 10 **TUBULAR STEEL RAILING TYPE 'M'**

THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.0.0.0

POPE AVENUE - STA 10+80 TO STA 11+50 - DIVISION 1										
		ARE	<u> </u>	INCREMENTAL (UNAD	_ VOLUME (CY) JUSTED)	CUMULATIVE				
		CUT	FILL	CUT	FILL	CUT EXPANDED FILL (NOTE 1)	1			
STATION	DISTANCE					1.00	1.25	MASS ORDINATE (NOTE 2)		
10+80 11+00 11+30 11+44 11+50	0 20 30 14 6	32 28 23 22 60	0 0 4 4 12	0 23 29 12 10	0 0 3 3 2	0 23 52 64 74	0 0 4 8 11	0 23 48 56 63		
				74	8					

POPE AVENUE - STA 11+97 TO STA 12+80 - DIVISION 2											
		AREA	A (SF)	INCREMENTAL (UNADJ		CUMULATIVE					
		CUT	FILL	CUT	FILL	CUT	EXPANDED FILL (NOTE 1)				
STATION	DISTANCE					1.00	1.25	MASS ORDINATE (NOTE 2)			
11+97 12+00 12+03 12+20 12+47	0 4 3 17 27	58 34 33 38 36	11 20 8 6 1	0 6 4 23 37	0 3 2 5 4	0 6 10 33 70	0 4 7 14 19	0 2 3 19 51			
12+50 12+53 12+80	4 3 27	39 39 37	0 0 0	5 5 38	1 0 0	75 80 118	21 21 21	54 59 97			
				118	15						

NOTES: 1 - EXPANDED FILL : (UNEXPANDED FILL) * (FILL FACTOR) 2 - MASS ORDINATE : CUT - (EXPANDED FILL); PLUS INDICATES AN EXCESS OF MATERIAL (WASTE)

COUNTY: MARATHON SHEET HWY: POPE AVENUE Ε PROJECT NO: 9517-04-72 EARTHWORK DATA

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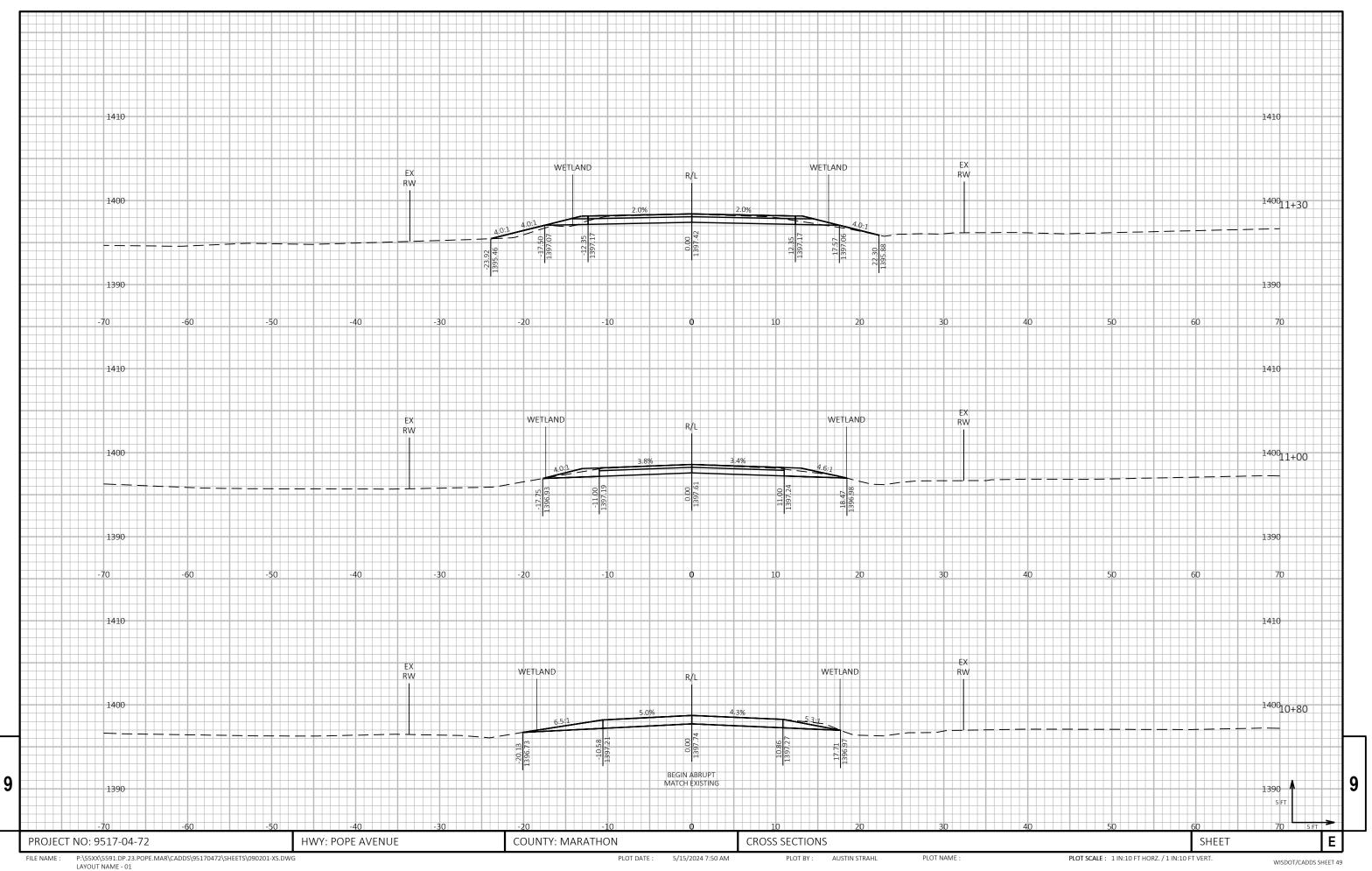
PLOT DATE : 5/15/2024 7:56 AM

PLOT BY: AUSTIN STRAHL

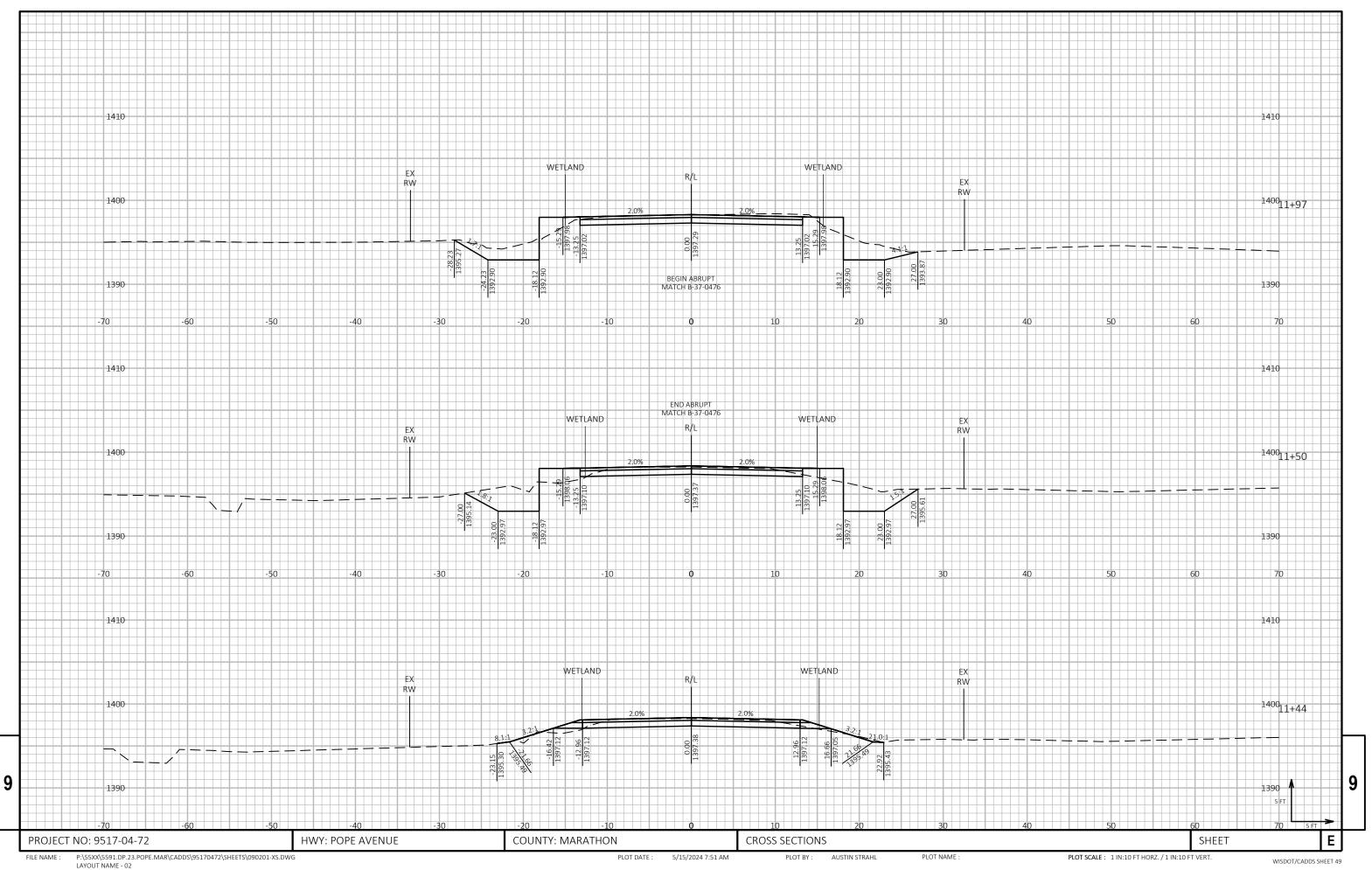
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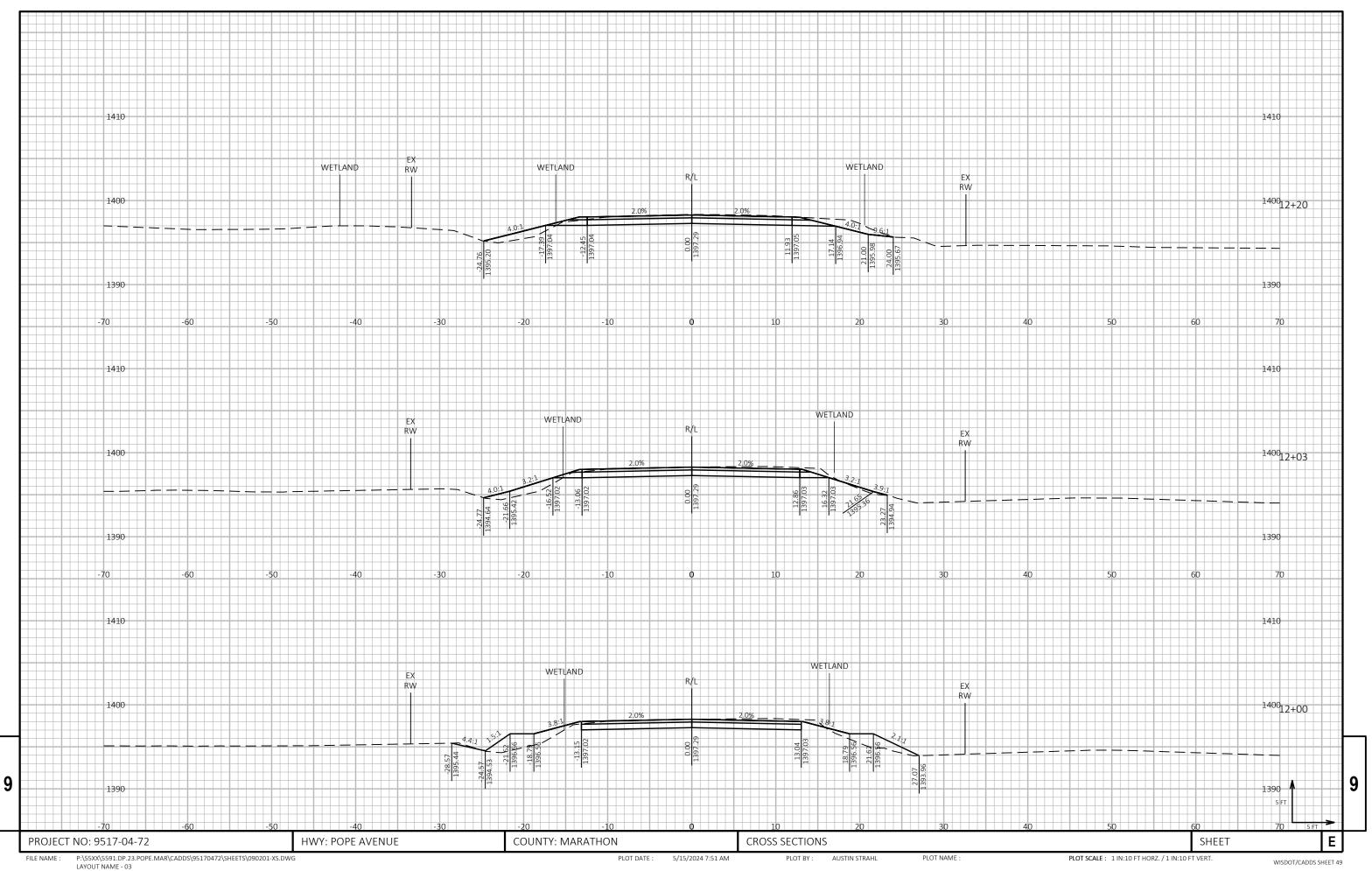
PLOT SCALE : 1" = 1'

9

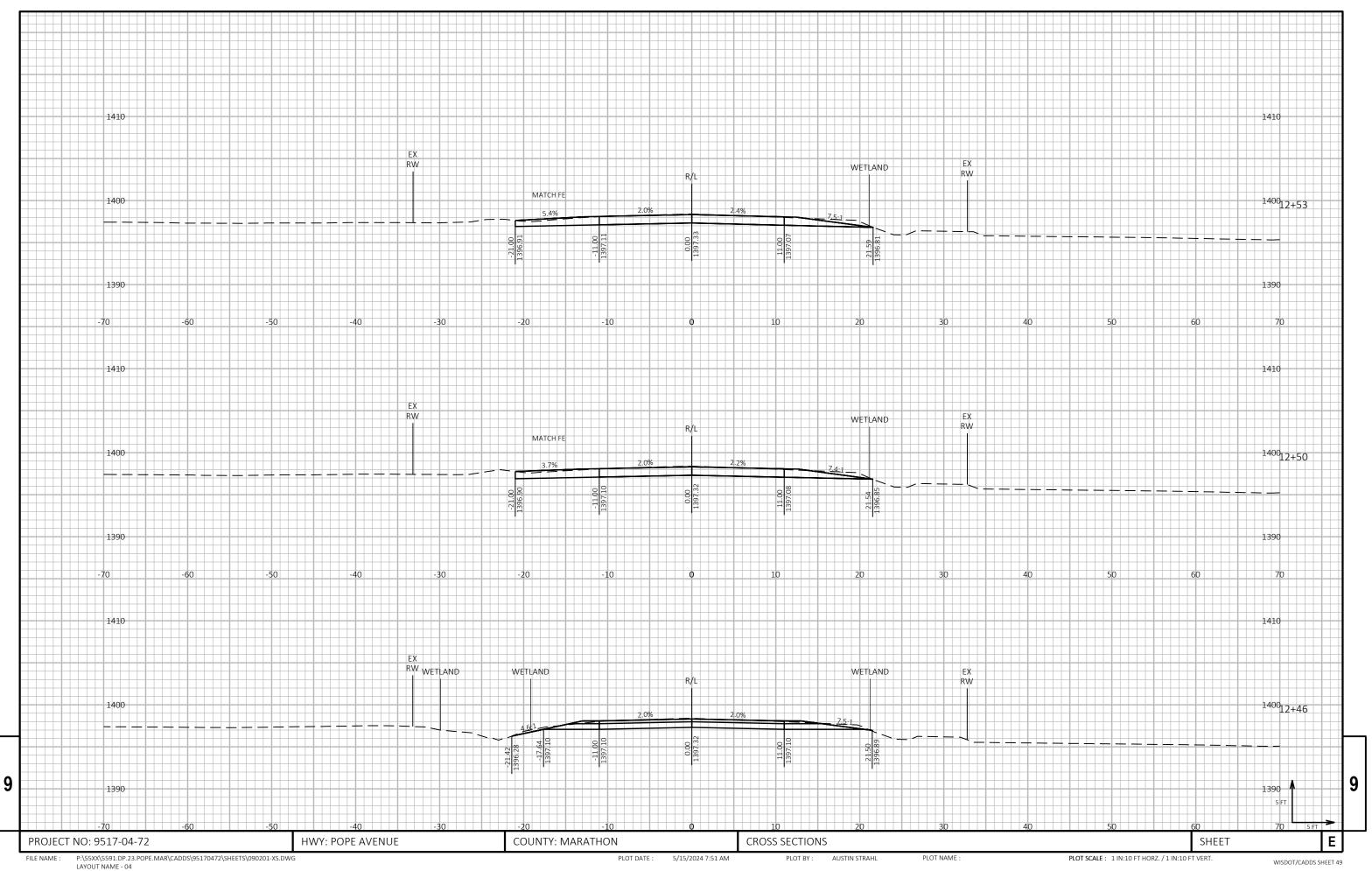


LATOUT IVAIVIE - UI

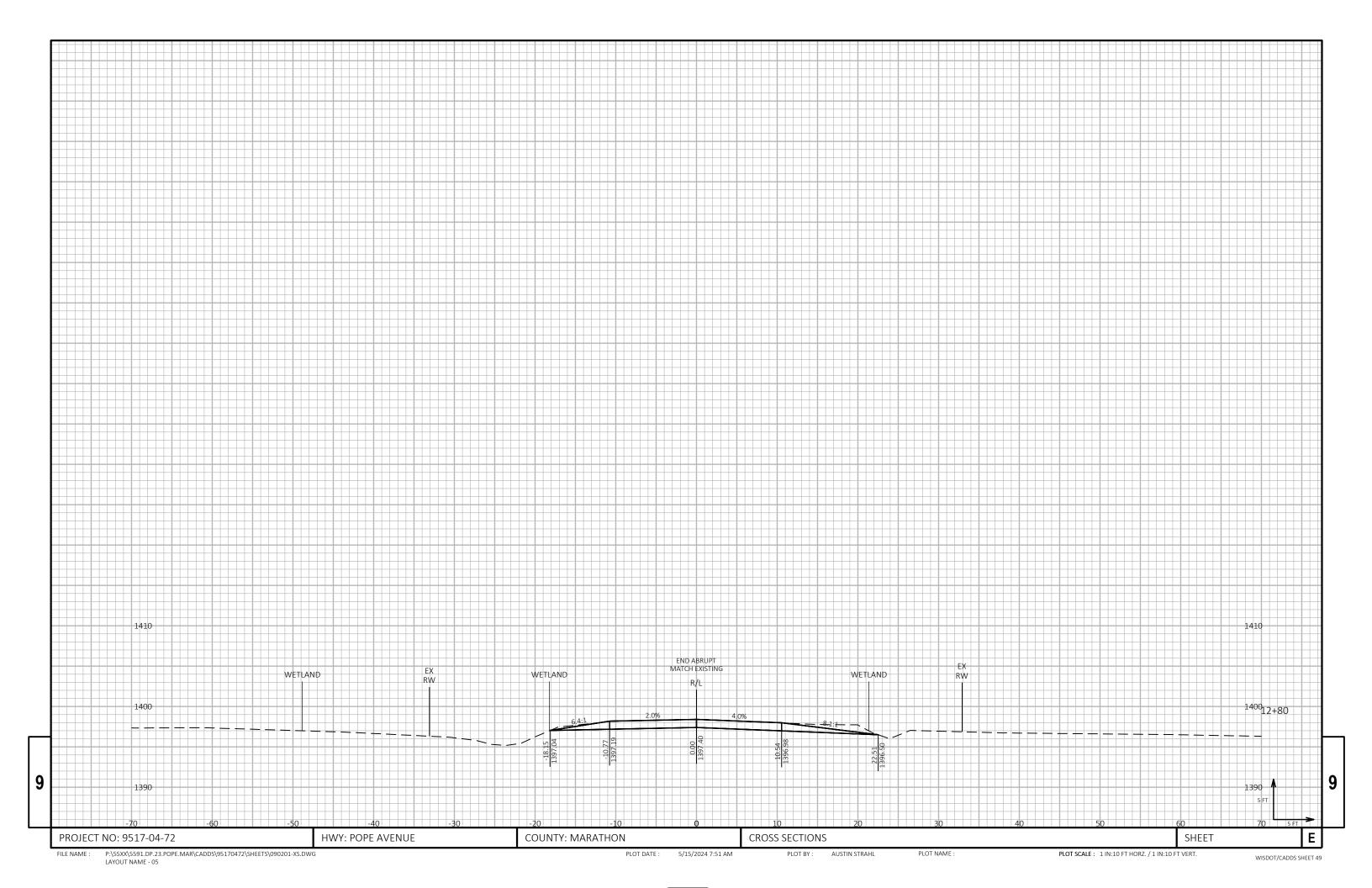




LATOUT MAINE - US



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