AUGUST 2025

Section No.

Section No. Section No. Section No.

Section No.

TOTAL SHEETS = 46

ORDER OF SHEETS

Typical Sections and Details **Estimate of Quantities**

Cross Sections

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

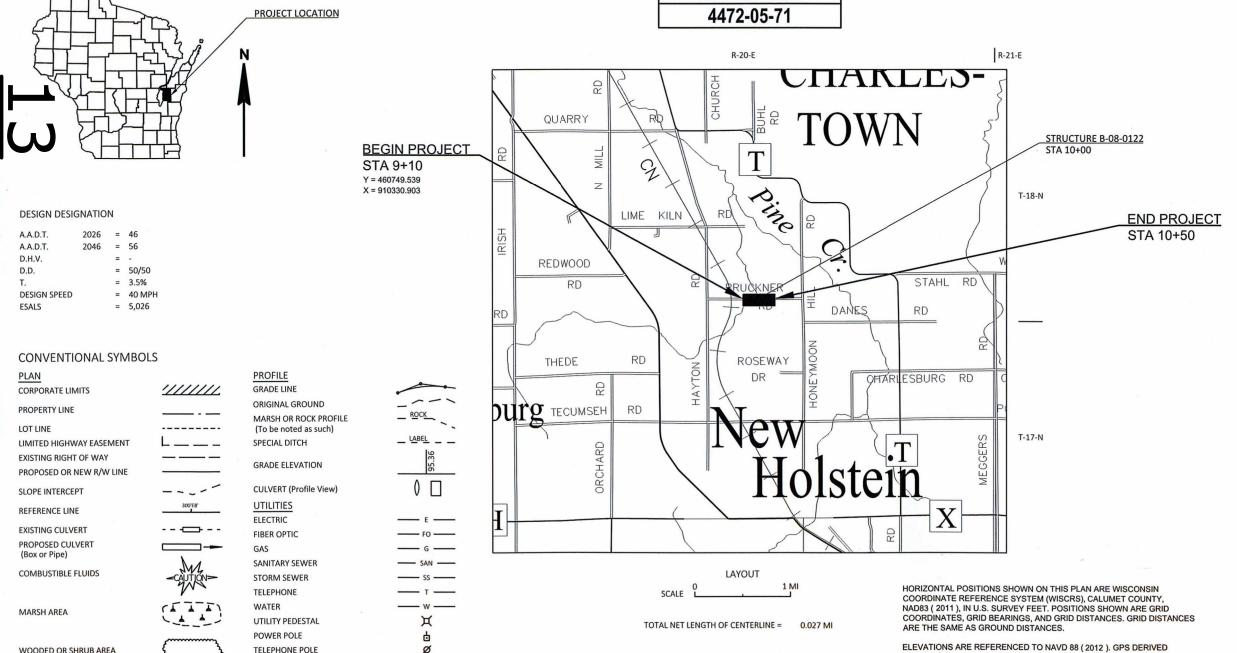
PLAN OF PROPOSED IMPROVEMENT

CHILTON - CHARLESTOWN

BRANCH OF PINE CREEK BRIDGE

LOC STR **CALUMET COUNTY**

> STATE PROJECT NUMBER 4472-05-71



ACCEPTED FOR TOWN OF CHARLESTOWN STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY AYRES AYRES Designer ERIK BRATTLUND, PE KIMBERLY SLEZAK, PE

FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2025574

STATE PROJECT

4472-05-71

FILE NAME: I:\45\450614 BRUCKNER RD\C3D\SHEETS\010101-TI.DWG

WOODED OR SHRUB AREA

TELEPHONE POLE

2/20/2025 11:11 AM

GARNICA, BRANDON

ELEVATIONS ARE BASED ON GEOID 18.

GENERAL NOTES

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

CONSTRUCT ASPHALTIC SURFACE WITH A 1 3/4" UPPER LAYER AND A 2 1/4" LOWER LAYER.

PROPERTY LINES AS SHOWN ARE APPROXIMATE.

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

BEARINGS SHOWN ON THIS PLAN ARE TRUE BEARINGS TO THE NEAREST SECOND.

ALL TIES ON THIS PLAN ARE HORIZONTAL UNLESS DESCRIBED OTHERWISE.

WISDOT WILL FURNISH A BENCHMARK MONUMENT TO BE SET BY THE CONTRACTOR.

UTILITIES

* AMERICAN TRANSMISSION CO - ELECTRIC

CELL 984-218-3109

N5342 RIVER ROAD FOUND DU LAC, WI 54937 ATTENTION: CRAIG HENDRICKS E-MAIL: chendricks@atcllc.com

*NON-MEMBER OF DIGGERS HOTLINE



DEPARTMENT OF NATURAL RESOURCES

WDNR

TELEPHONE 920-366-1544

2984 SHAWANO AVENUE GREEN BAY, WISCONSIN 54313 ATTENTION: MATT SCHAEVE E-MAIL: MATTHEW.SCHAEVE@WISCONSIN.GOV

RUNOFF COEFFICIENT TABLE

		HYDROL	OGIC SOIL GROU	5											
		Α	1		В			С			D				
	SLO	PE RANG	GE (PERCENT)	SLOF	PE RANG	E (PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)					
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER			
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56			
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40			
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38			
PAVEMENT:	•			•					•	•					
ASPHALT						.7095									
CONCRETE		.8095													
BRICK	BRICK							.7080							
DRIVES, WALKS				.7585											
ROOFS						.7595									
GRAVEL ROADS, SH	OULDERS	3			•	.4060									

TOTAL PROJECT AREA = 0.212 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.189 ACRES

SOIL GROUP A/D.

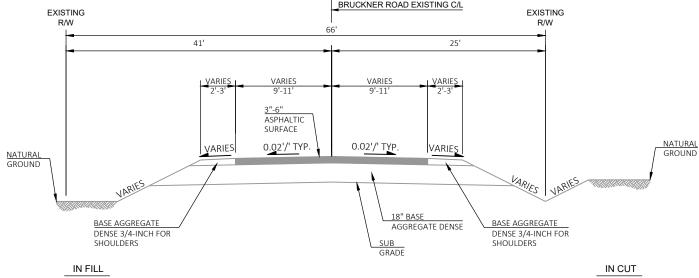
STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC	NC	NORMAL CROWN
AC	ASPHALT CEMENT	PT	POINT OF TANGENCY
AGG	AGGREGATE	PC	POINT OF CURVATURE
ASPH	ASPHALT	PI	POINT OF INTERSECTION
BM	BENCH MARK	PE	PRIVATE ENTRANCE
C/L	CENTERLINE	R	RADIUS
CONC	CONCRETE	REM	REMOVE
CMP	CORRUGATED METAL PIPE	R/L OR RL	REFERENCE LINE
CR.	CREEK	RCCP	REINFORCED CONCRETE CULVERT PIPE
D	DEGREE OF CURVE	RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
DHV	DESIGN HOUR VOLUME	R.O.	RUNOUT
ESALS	EQUIVALENT SINGLE AXIS LOADS	R/W	RIGHT-OF-WAY
EXIST	EXISTING	STA	STATION
FE	FIELD ENTRANCE	SE	SUPER ELEVATION
HYD	HYDRANT	SS	STORM SEWER
IP	IRON PIPE OR PIN	T	TANGENT
L	LENGTH OF CURVE	TEL	TELEPHONE
LC	LONG CHORD OF CURVE	TLE	TEMPORARY LIMITED EASEMENT
LR	LENGTH OF RUNOFF	T	TRUCKS
MH	MANHOLE	VC	VERTICAL CURVE
		W	WELL

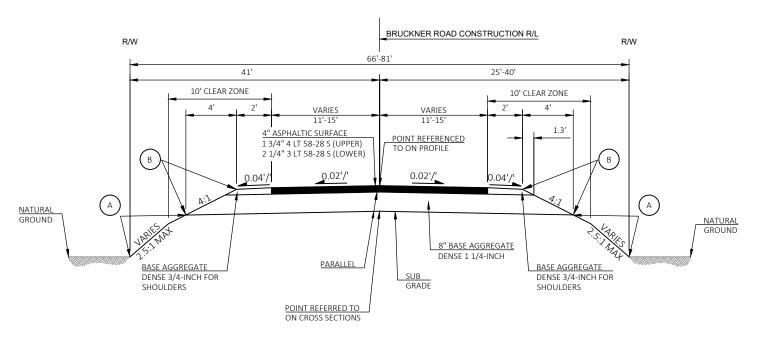
COUNTY: CALUMET Ε PROJECT NO: 4472-05-71 HWY: BRUCKNER RD **GENERAL NOTES** SHEET I:\45\450614 BRUCKNER RD\C3D\SHEETS\020101-GN.DWG PLOT SCALE : FILE NAME : 4/21/2025 3:35 PM PLOT BY: PROSE, JOHNATHAN PLOT NAME :

LAYOUT NAME - 020101-gn

1 IN:20 FT WISDOT/CADDS SHEET 42 EXISTING RW 66' EXISTING RW
41' 25'



EXISTING TYPICAL SECTION FOR BRUCKNER ROAD STA 9+10 - STA 10+50



FINISHED TYPICAL SECTION FOR BRUCKNER ROAD

STA 9+10 - STA 9+76.75 STA 10+23.25 - 10+50 A TOPSOIL, FERTILIZE, SEED, AND EROSION MAT

SEED AND FERTILIZE

3223741372141222

PROJECT NO: 4472-05-71 HWY: BRUCKNER RD

COUNTY: CALUMET

PLOT DATE: 6/16/2025 10:40 AM

PLOT DATE: 6/16/2025 10:40 AM

PLOT DATE: 6/16/2025 10:40 AM

PLOT NAME: 0/10/2011 to 1/10/2015 TO

LAYOUT NAME - 020301-ts

Ε

SHEET

SILT FENCE
OVERLAP
MIN 1.5' (TYP)

WATER

WATER

WATER

ROCK BAGS

ROCK BAGS

TOP VIEW

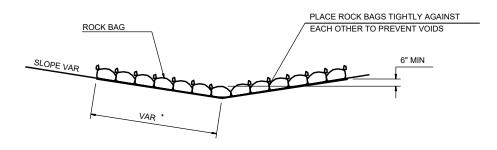
SILT FENCE USED ALONG
THE TOE OF SLOPE

SECTION A-A

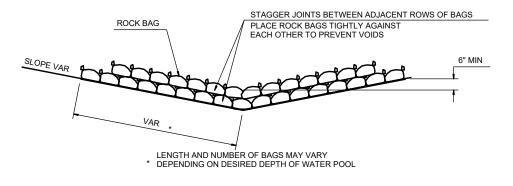
TOP VIEW

ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS (SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)



SIDE VIEW (SINGLE LAYER)



SIDE VIEW (MULTIPLE LAYER)

ROCK BAGS DITCH CHECK

PAID AS ROCK BAGS
(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)

FILE NAME: 1:\45\450614 BRUCKNER RD\C3D\SHEETS\021001-CD.DWG

PLOT DATE: 4/21/2025 3:35 PM

PLOT BY: PROSE, JOHNATHAN PLOT NAME: 1 IN:200 FT

WISDOT/CADDS SHEET 42

CONSTRUCTION DETAILS

COUNTY: CALUMET

LAYOUT NAME - 021001-cd

4472-05-71

PROJECT NO:

CONSTRUCTION ~

EXISTING SHOULDER POINT

EXISTING ROAD

CORE TO REMAIN

VARIES

SUBGRADE SHOULDER POINT

MARSH DISPOSAL

"D

MARSH BACKFILL SELECT BORROW

×EXCAVATION \

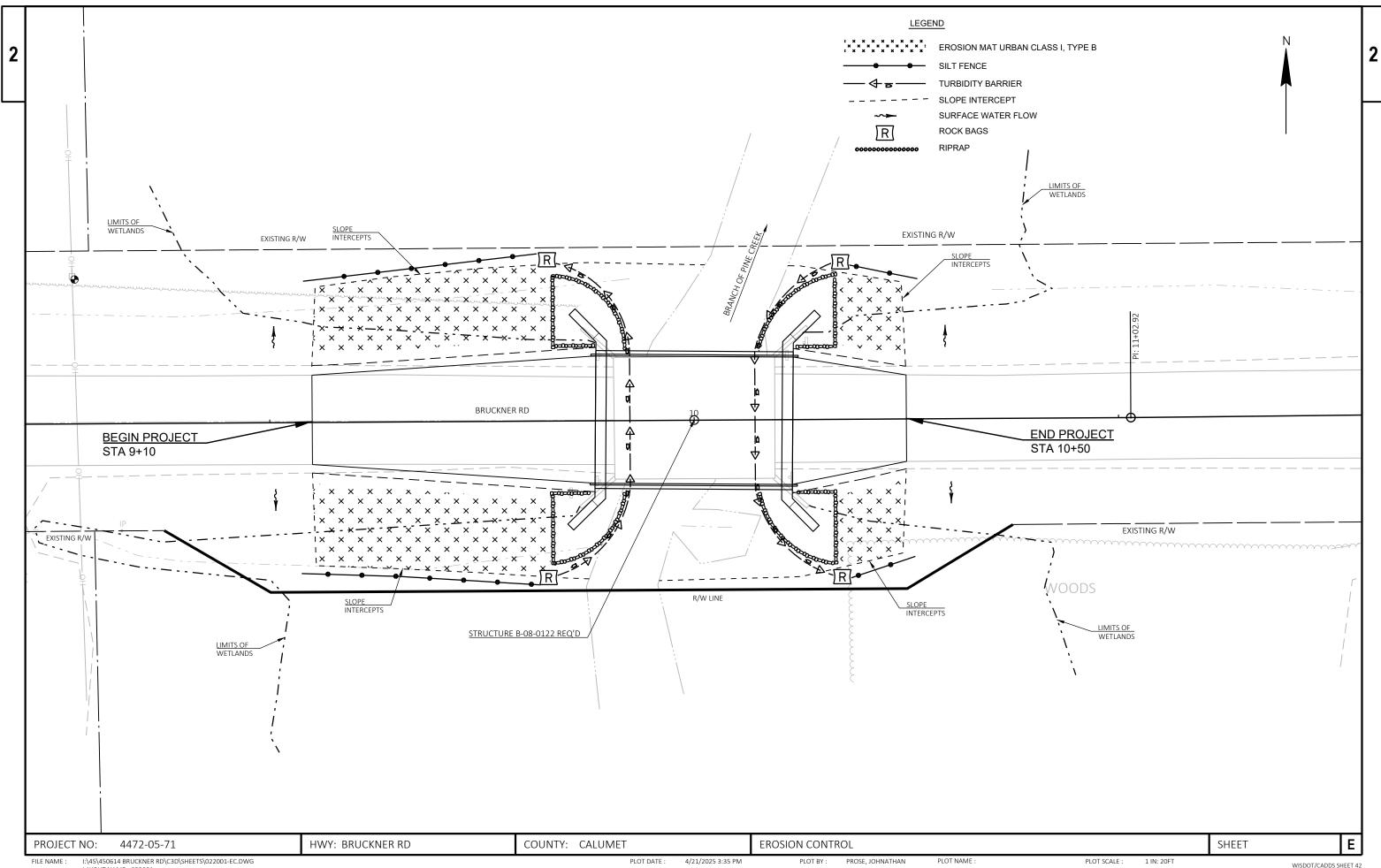
NOTE: BACKFILL QUANTITIES COMPUTED FROM POINT "d" TO COMPENSATE FOR PROBABLE DISPLACED MARSH AREA.

TYPICAL SECTION-MARSH EXCAVATION

HWY: BRUCKNER RD

BOTTOM OF MARSH

MARSH DEPTH



LAYOUT NAME - 022001-ec

WISDOT/CADDS SHEET 42

645.0111 Geotextile Type DF Schedule A

96.000

96.000

3

			'		Kaaiitiios
					4472-05-71
Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	2.000	2.000
0004	203.0211.S	Abatement of Asbestos Containing Material (structure) 01. P-08-0036	EACH	1.000	1.000
0006	203.0270	Removing Structure Over Waterway Debris Capture (structure) 01. P-08-0036	EACH	1.000	1.000
8000	205.0100	Excavation Common	CY	93.000	93.000
0010	205.0400	Excavation Marsh	CY	91.000	91.000
0012	206.1001	Excavation for Structures Bridges (structure) 01. B-08-0122	EACH	1.000	1.000
0014	208.0100	Borrow	CY	187.000	187.000
0016	208.1100	Select Borrow	CY	138.000	138.000
0018	210.1500	Backfill Structure Type A	TON	342.000	342.000
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	20.000	20.000
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	170.000	170.000
0024	455.0605	Tack Coat	GAL	17.000	17.000
0026	465.0105	Asphaltic Surface	TON	62.000	62.000
0028	502.0100	Concrete Masonry Bridges	CY	163.000	163.000
0030	502.3200	Protective Surface Treatment	SY	224.000	224.000
0032	505.0400	Bar Steel Reinforcement HS Structures	LB	4,620.000	4,620.000
0034	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	26,160.000	26,160.000
0036	513.4061	Railing Tubular Type M	LF	98.000	98.000
0038	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000
0040	550.0020	Pre-Boring Rock or Consolidated Materials	LF	280.000	280.000
0042	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	350.000	350.000
0044	606.0300	Riprap Heavy	CY	145.000	145.000
0046	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000
0048	618.0100	Maintenance and Repair of Haul Roads (project) 01. 4472-05-71	EACH	1.000	1.000
0050	619.1000	Mobilization	EACH	1.000	1.000
0052	624.0100	Water	MGAL	5.000	5.000
0054	625.0100	Topsoil	SY	350.000	350.000
0056	628.1504	Silt Fence	LF	300.000	300.000
0058	628.1520	Silt Fence Maintenance	LF	600.000	600.000
0060	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0062	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0062	628.2008	Erosion Mat Urban Class I Type B	SY	350.000	350.000
0066	628.6005	,,,	SY	170.000	170.000
0068	628.7570	Turbidity Barriers Rock Bags	EACH	75.000	75.000
0000	629.0210	•	CWT		0.400
		Fertilizer Type B	LB	0.400	
0072	630.0120	Seeding Mixture No. 20		17.000	17.000
0074	630.0200	Seeding Temporary	LB	8.000	8.000
0076	630.0300	Seeding Borrow Pit	LB	8.000	8.000
0078	630.0500	Seed Water	MGAL	11.000	11.000
0800	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0082	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0084	638.2602	Removing Signs Type II	EACH	8.000	8.000
0086	638.3000	Removing Small Sign Supports	EACH	8.000	8.000
8800	642.5001	Field Office Type B	EACH	1.000	1.000
0090	643.0420	Traffic Control Barricades Type III	DAY	3,996.000	3,996.000
0092	643.0705	Traffic Control Warning Lights Type A	DAY	6,216.000	6,216.000
0094	643.0900	Traffic Control Signs	DAY	3,108.000	3,108.000
0096	643.5000	Traffic Control	EACH	1.000	1.000
0000	045 0444	O 4 411 - T DE O - 1 1- 1 - A	01/	00.000	00.000

SPV.0195 Special 01. Select Crushed Material For Travel Corridor

Estimate Of Quantities

4472-05-71

18.000

Page	2

Line	Item	Item Description	Unit	Total	Qty
0100	645.0120	Geotextile Type HR	SY	280.000	280.000
0102	646.1020	Marking Line Epoxy 4-Inch	LF	280.000	280.000
0104	650.4500	Construction Staking Subgrade	LF	94.000	94.000
0106	650.5000	Construction Staking Base	LF	94.000	94.000
0108	650.6501	Construction Staking Structure Layout (structure) 01. B-08-0122	EACH	1.000	1.000
0110	650.9911	Construction Staking Supplemental Control (project) 01. 4472-05-71	EACH	1.000	1.000
0112	650.9920	Construction Staking Slope Stakes	LF	94.000	94.000
0114	690.0150	Sawing Asphalt	LF	42.000	42.000
0116	715.0502	Incentive Strength Concrete Structures	DOL	978.000	978.000
0118	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0120	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0122	SPV.0090	Special 01. Flashing Stainless Steel	LF	83.000	83.000

18.000

TON

BASE AGGREGATE DENSE AND WATER

						BASE AGGREG	GATE DENSE AND	WATER							
GR	RUBBING						305.0110	305.0120	624.0100				ASPHALTIC SURFA	<u>ICE</u>	
STATION TO STATION	LOCATION	201.0205 GRUBBING STA		STATION TO S	station lo	CATION	BASE AGGREGATI DENSE 3/4-IN TON	BASE AGGREGATI DENSE 1 1/4	E		STATION	TO STATION	LOCATION	455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON
9+00 - 11+00 BF	RUCKNER ROAD	2		9+10 -		R ROAD, LT & RT	13	121 49	3 2		9+10 10+23	- 9+77	BRUCKNER ROAD, LT & RT BRUCKNER ROAD, LT & RT	12 5	44
	TOTAL	2				OTALS	20	170	5	_		10.00	TOTALS	17	62
<u>SIL</u>	<u>LT FENCE</u>												MOBILIZATIONS EROSION	<u>CONTROL</u>	
STATION TO STATION LOCATION 9+10 - 9+77 BRUCKNER ROA	SIL [*] ON AD, LT & RT	SII T FENCE MAI LF 180	28.1520 LT FENCE NTENANCE LF 360								STATION	TO STATION	LOCATION	628.1905 MOBILIZATIOI EROSION CONTROL EACH	628.1910 MOBILIZATIONS NS EMERGENCY EROSION CONTROL EACH
10+23 - 10+50 BRUCKNER ROA UNDISTRIB		80 40	160 80								9+10	- 10+50	BRUCKNER ROAD, LT & RT	5	3
TOTAL	LS	300	600			EARTH	WORK SUMM	<u>ARY</u>					TOTALS	5	3
			From/To		Common Excavation	Unusable Pavement Material	Available Material	Excavation Marsh	Backfill (10)	Expanded Fill	Ordinate	Borrow (Item#208.01	00)		
		Division	Station	Location	(Item#205.0100)	(4)	(5)	(6)	(ltem#209.2100) Factor	(13) Factor	+/-				
		1	9+10 - 10+50	BRUCKNER ROAD	(2)	25	68	ltem#205.0400) 91	1.50 138	1.30 255	-187	187	_		
		Division 1 To			93	25	68	91	138	255	-187	187			
Notes:															
5-Available 6-Excavati	ion Marsh ded Marsh Backfill	nt Material Th Av Ex	is does not show up ailable Material = C cavation Marsh too panded Marsh Bacl	Material is included in price of in cross sections. If the ut - Unusable Pavel be backfilled with But ill will be backfilled at 1.3. Expanded Fill	Unusable Pavemer ment Material Backfill Granular Gra d with Select Borrow	ade 2 as show w Material. Mai	n in cross sect	ons.					umber 208.0100. or. Item Number 208.1100.		
14-Mass C		1		nent Material - (Une											
LL ITEMS ARE CATEGORY 0010 UNLESS OTHERW		LIMANA BELLA		1 ~	OLINITY: OALL	IN A CT		MICOST	ANEOUS	ANITITICO				Louise	г. Т.
PROJECT NO: 4472-05-71		UM I: BKU	CKNER ROAD	1 00	OUNTY: CALU		: June 16, 2025		ANEOUS QUA		PLOT NAME :		PLOT SCALE : 1:1	SHEE	Т: І

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

EROSION MAT

TURBIDITY BARRIERS

		628.6005	628.2008 EROSION MAT		<u>ROCKBAGS</u>	
		TURBIDITY BARRIERS	URBAN CLASS I TYPE B			628.7570
STATION TO STATION	LOCATION	SY	STATION TO STATION LOCATION SY			ROCK BAGS
			STATION	TO STATIC	N LOCATION	EACH
9+10 - 10+00	BRUCKNER ROAD, LT & RT	86	9+10 - 9+77 BRUCKNER ROAD, LT & RT 222			
10+00 - 10+50	BRUCKNER ROAD, LT & RT	84	10+23 - 10+50 BRUCKNER ROAD, LT & RT 58 9+10	- 10+00	D BRUCKNER ROAD, LT & RT	30
			UNDISTRIBUTED 70 10+00	- 10+50	D BRUCKNER ROAD, LT & RT	30
	TOTAL	170			UNDISTRIBUTED	15
			TOTALS 350		_	
					TOTAL	75

10+23

10+27

BRUCKNER ROAD, LT & RT

BRUCKNER ROAD, LT

BRUCKNER ROAD, HONEYMOON HILL ROAD

TOPSOIL, FERTILIZER, AND SE	ED
-----------------------------	----

				625.0100 TOPSOIL	629.0210 FERTILIZER TYPE B	630.0120 SEEDING MIXTURE NO. 20	630.0200 SEEDING TEMPORARY	630.0300 SEEDING BORROW PIT	630.0500 SEED WATER
STATION	TO	STATION	LOCATION	SY	CWT	LB	LB	LB	MGAL
9+10	-	9+77	BRUCKNER ROAD, LT & RT	222	0.2	10	4	4	7
10+23	-	10+50	BRUCKNER ROAD, LT & RT	58	0.1	3	2	2	2
			UNDISTRIBUTED	70	0.1	4	2	2	2
			_						
			TOTALS	350	0.4	17	8	8	11

MOVING
ALL SIGN
IPPORTS
EACH REMARKS
1 "25 TON BRIDGE 1/2 MILE AHEAD"
1 "BRIDGE WEIGHT TIMIT 5 TONS"
2 OBJECT MARKER
J

REMOVING SIGNS

TOTALS 8 8

SIGNS AND SIGN POSTS

OBJECT MARKER

"BRIDGE WEIGHT TIMIT 5 TONS"

"25 TON BRIDGE 1/2 MILE AHEAD"

634.0612

637.2230

TRAFFIC CONTROL

	APPROX.	643.042 TRAFFIC CON		643.070 TRAFFIC CON		643.090	00				POSTS WOOD 4X6-INCH X 12- FT		TYPE II CTIVE F
	SERVICE	BARRICADES	TYPE III	WARNING LIGH	TS TYPE A	TRAFFIC CONTR	OL SIGNS					W5-52L	W5-52R
LOCATION	PERIOD	NO. IN SERVICE	DAY	NO. IN SERVICE	DAY	NO. IN SERVICE	DAY	REMARKS	QUADRANT	LOCATION	EACH	SF	SF
BRUCKNER ROAD WEST APPROACH	222	9	1,998	14	3,108	7	1,554	REFER TO SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL C & D"	SW	BRUCKNER ROAD, RT	1	_	3
BRUCKNER ROAD EAST APPROACH	222	9	1,998	14	3,108	7	1,554	REFER TO SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAIL C & D"	NW	BRUCKNER ROAD, LT	1	3	-
									SE	BRUCKNER ROAD, RT	1	3	-
TOTALS		3,996		6,216		3,108		•	NE	BRUCKNER ROAD, LT	1	-	3
										TOTALS	4	1	2

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED.

PROJECT NO: 4472-05-71	HWY: BRUCKNER ROAD	COUNTY: CALUMET	MISCELLANEOUS QUANTITIES	SHEET:	Ε
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FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

3

CONSTRUCTION STAKING

SAWING ASPHALT

						650.4500	650.5000	650.6501.01	650.9911.01	650.9920
								CONSTRUCTION	CONSTRUCTION	
								STAKING	STAKING	
						CONSTRUCTION		STRUCTURE	SUPPLEMENTAL	CONSTRUCTION
						STAKING	CONSTRUCTION	LAYOUT	CONTROL	STAKING SLOPE
						SUBGRADE	STAKING BASE	(B-08-0122)	(B-08-0122)	STAKES
CAT	EGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH	LF
0	010	9+10	-	9+77	BRUCKNER ROAD, LT & RT	67	67	-	-	67
0	010	10+23	-	10+50	BRUCKNER ROAD, LT & RT	27	27	-	-	27
0	010	PI	ROJEC	T	BRUCKNER ROAD	-	-	-	1	-
					TOTAL 0010	94	94	0	1	94
0	020	B-C	8-01	22		-	-	1	-	-
					TOTAL 0020	0	0	1	0	0
					PROJECT TOTAL	94	94	1	1	94

MARKING LINE

646.1020 MARKING LINE EPOXY 4-INCH

280

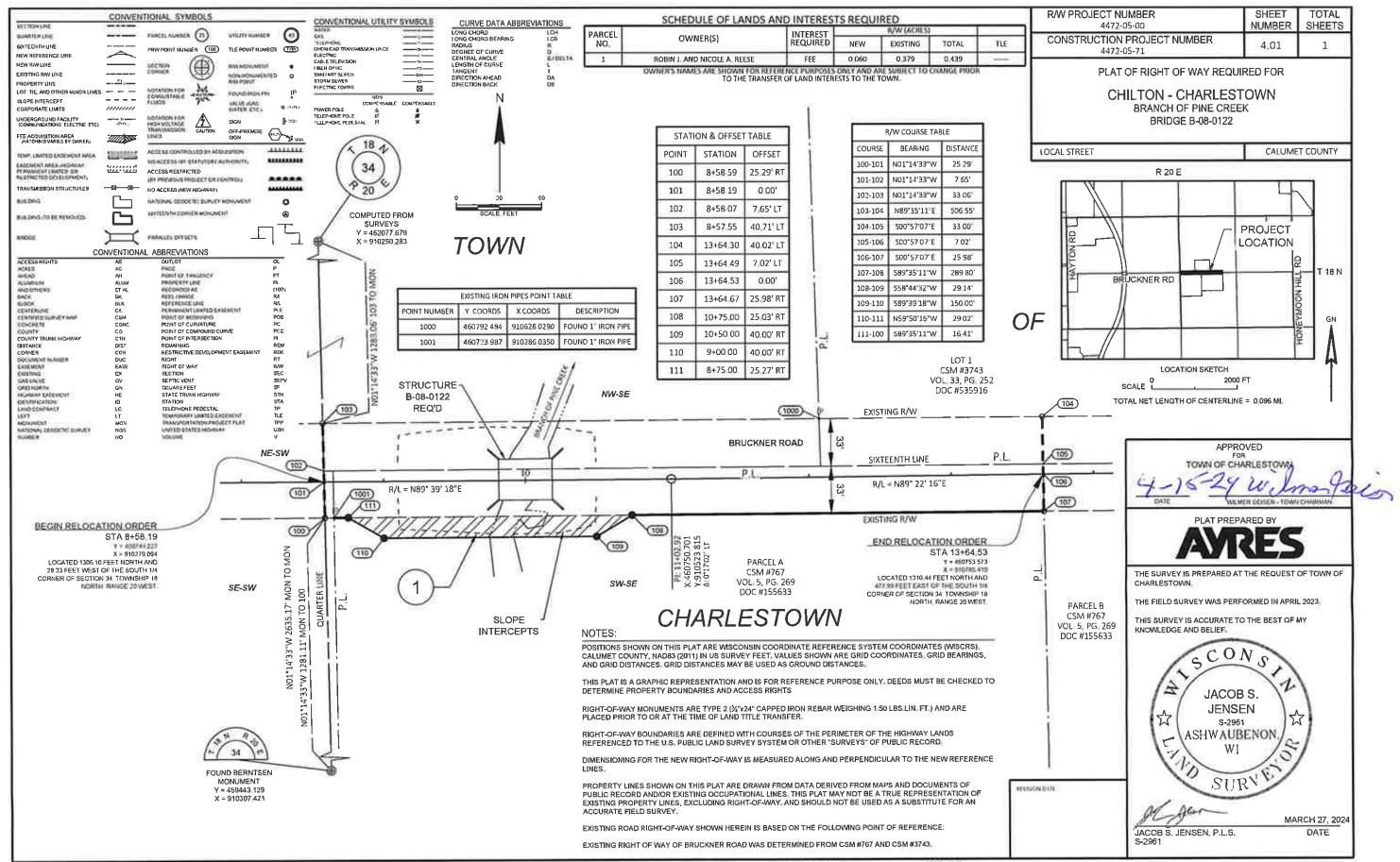
				LI OXI + INCI	
STATION	TO	STATION	LOCATION	LF	REMARKS
					_
9+10	-	10+50	BRUCKNER ROAD	280	DOUBLE-YELLOW

TOTAL

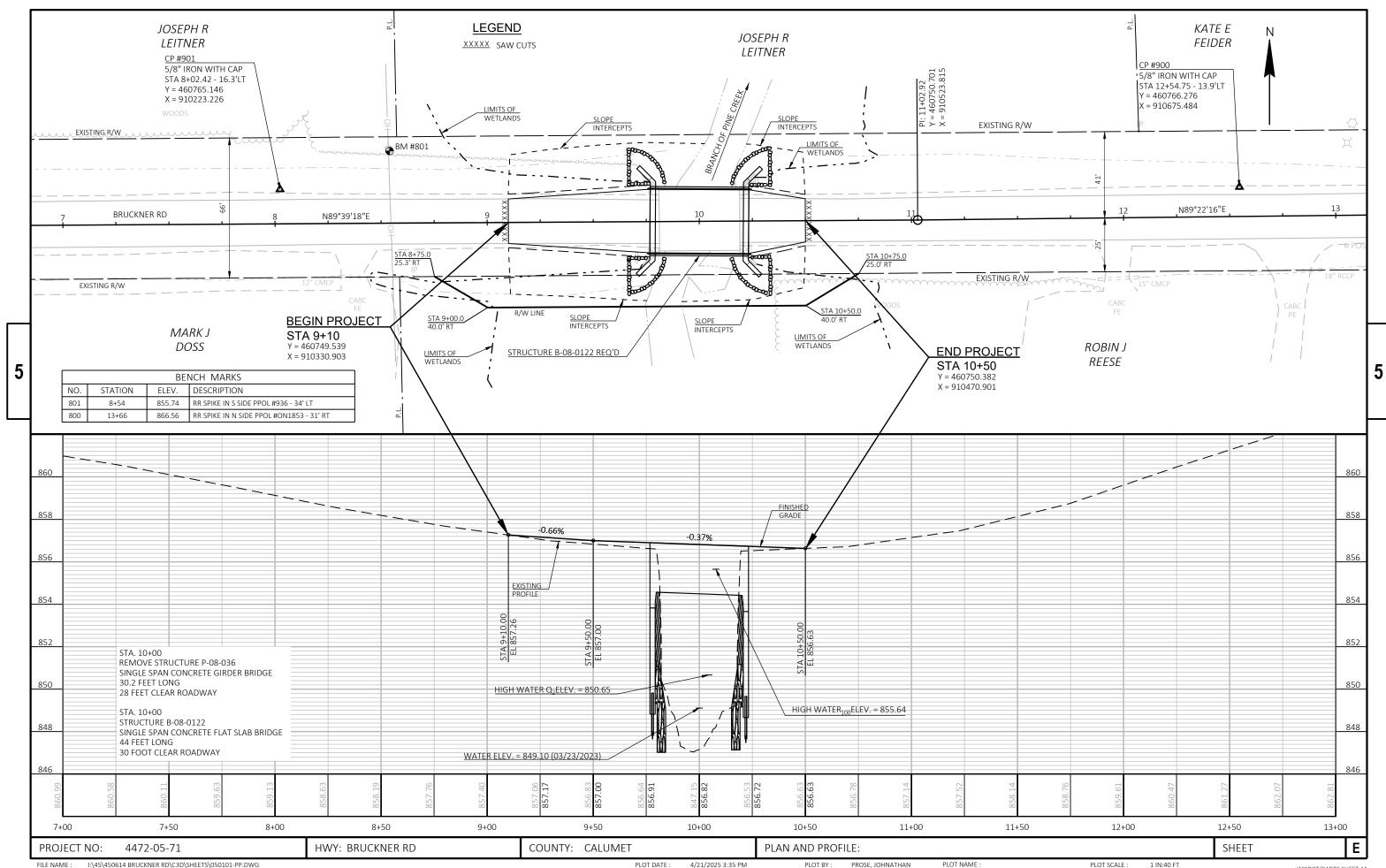
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED.

PROJECT NO: 4472-05-71 HWY: BRUCKNER ROAD COUNTY: CALUMET MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1



FIGT DATE: 4/8/2004 8-22 AM PLOT BY TACKNOWN PLOT BY TACK



Standard Detail Drawing List

S
5

6

TYPICAL APPLICATION OF SILT FENCE

6

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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

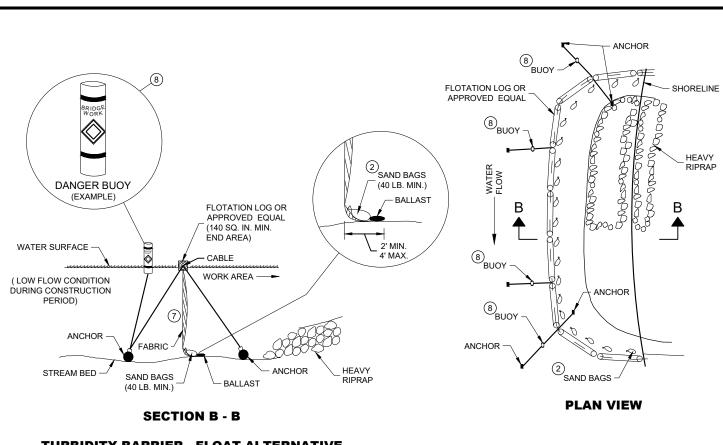
(WHEN REQUIRED BY THE ENGINEER)



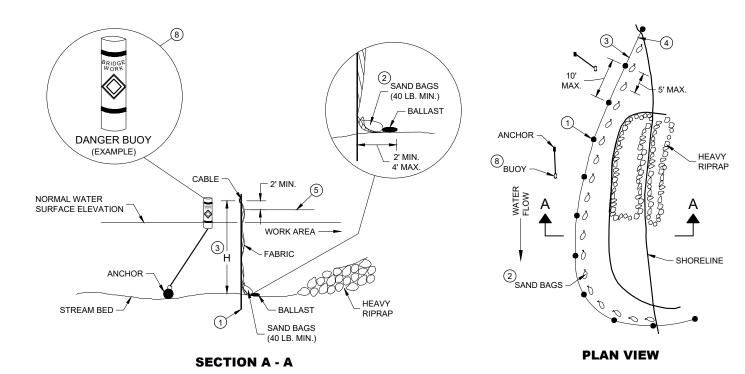
6

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D.D. 8 E 9-6



TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

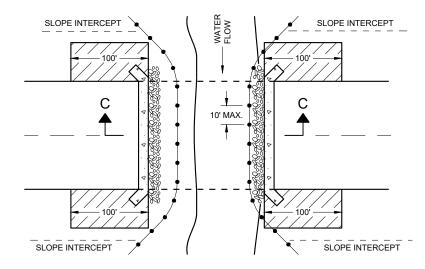
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

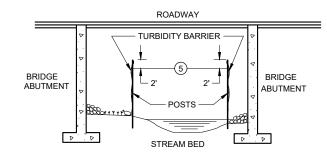
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ∞

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





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

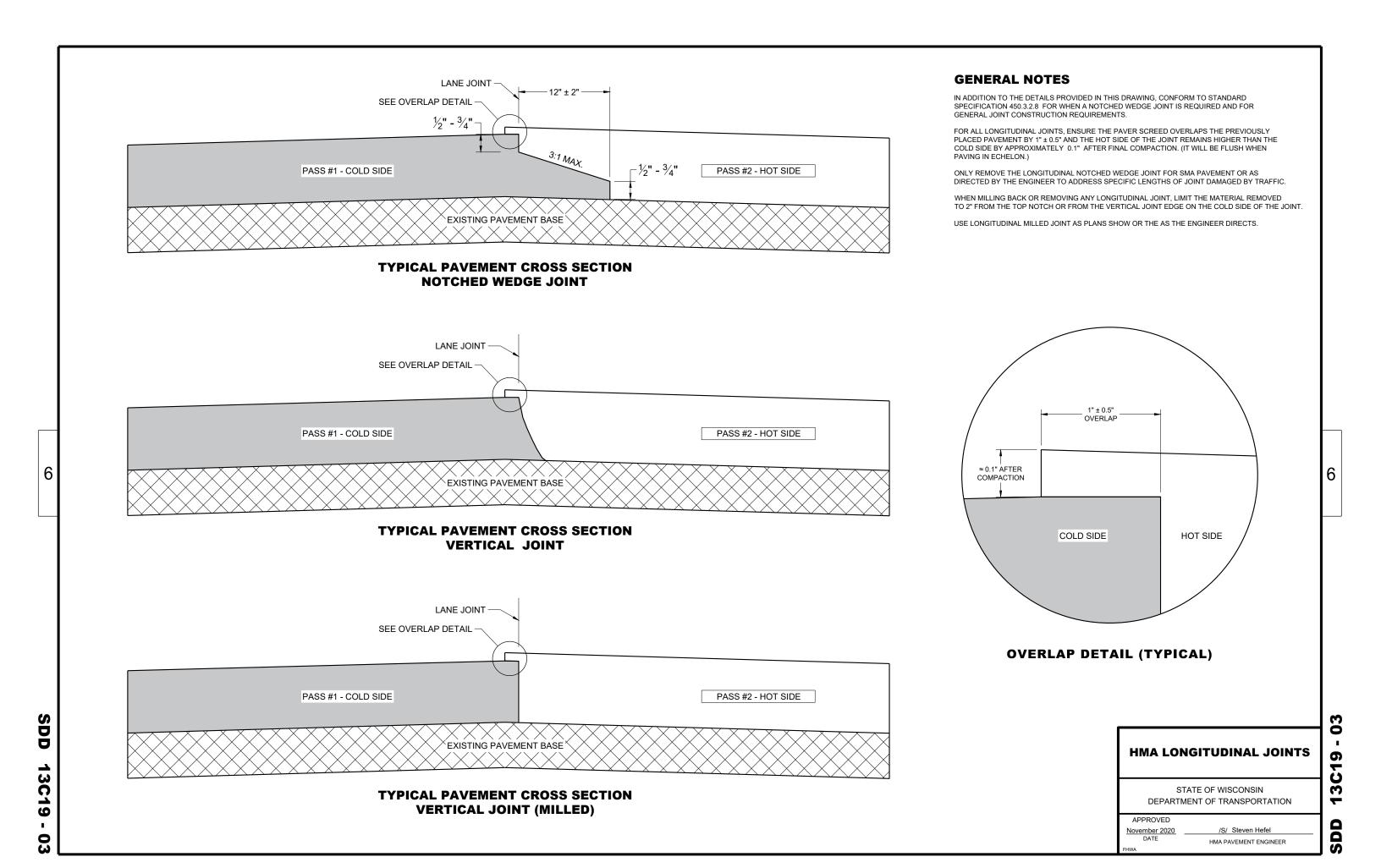
APPROVED

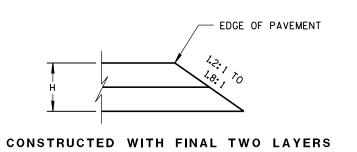
3/26/IO /S/ Scot Becker

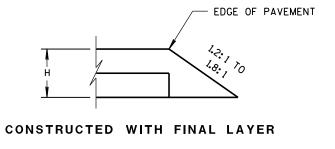
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

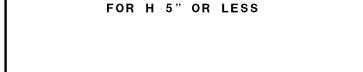
3-10

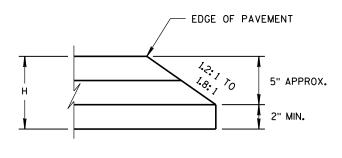






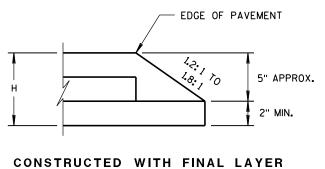
FOR H 5" OR LESS



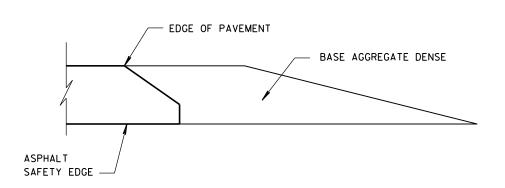


CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"



FOR H GREATER THAN 5"



FINISHED SHOULDER AGGREGATE PLACEMENT

HMA PAVEMENT AND HMA OVERLAYS

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

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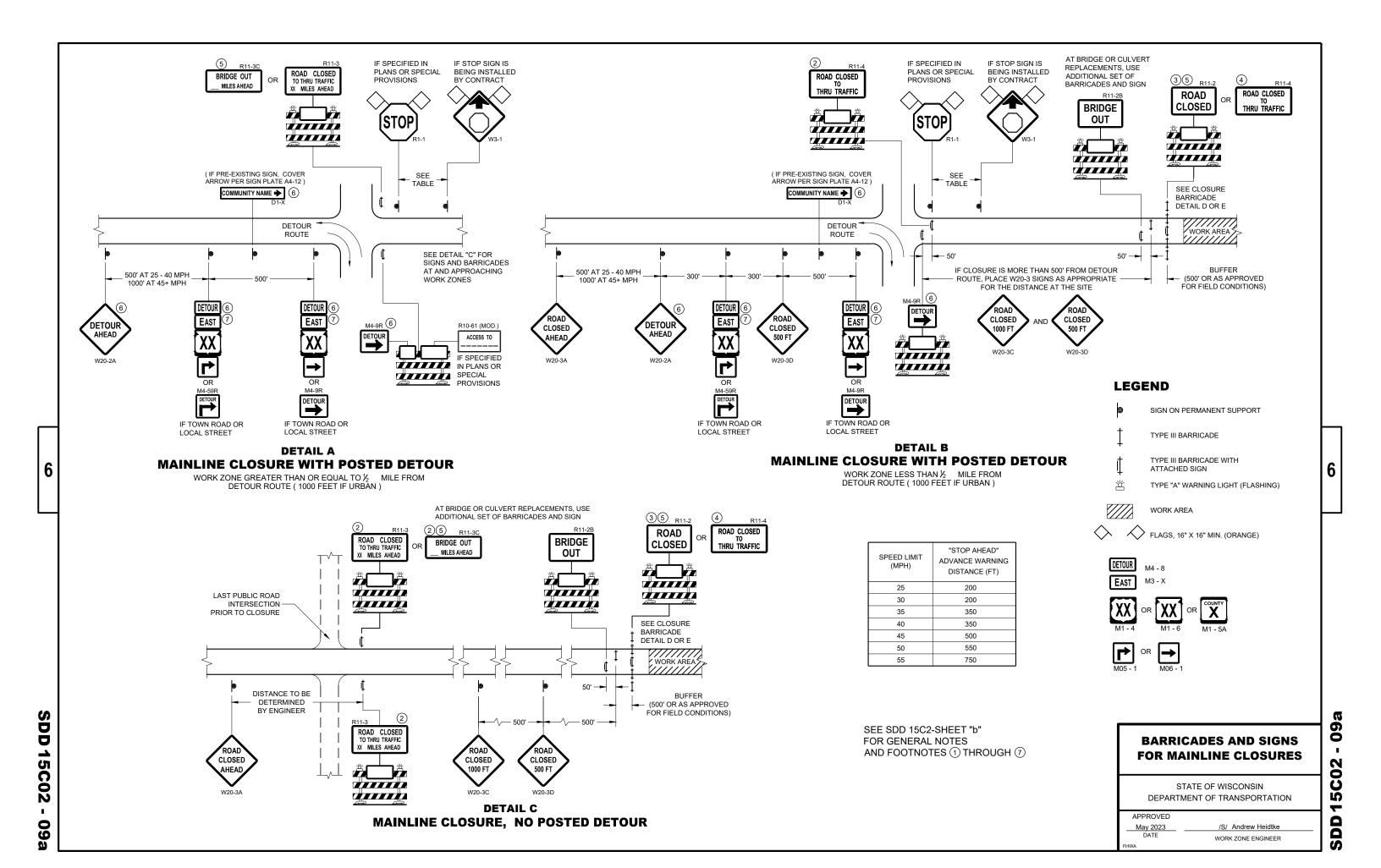
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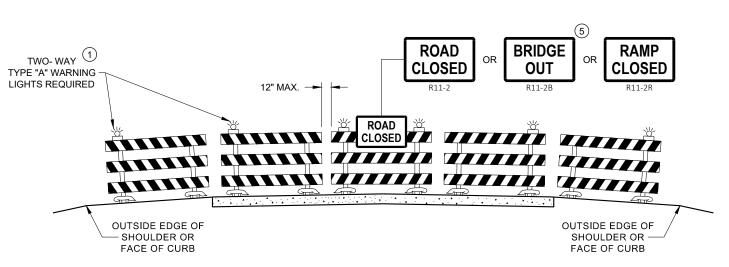
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APPROVED

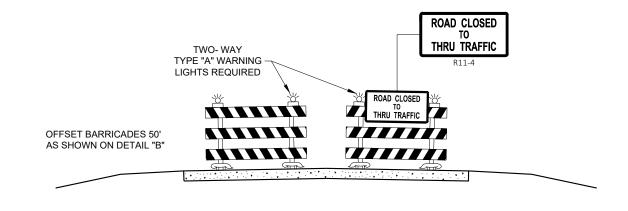
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

6





DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



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

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"

- 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**
- 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
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

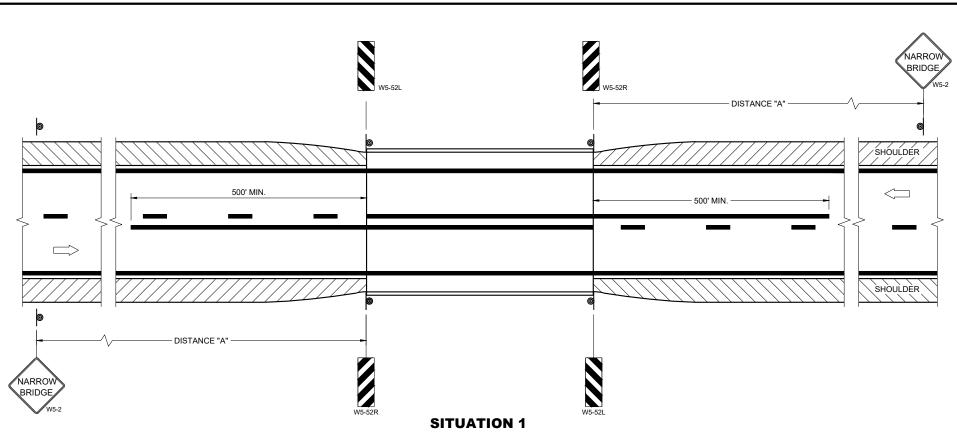
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

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SDD 15C06-12



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

OR SHOULDER SHOULDER WS-52R WS-52L

SITUATION 2

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

SDD

15C06-12

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

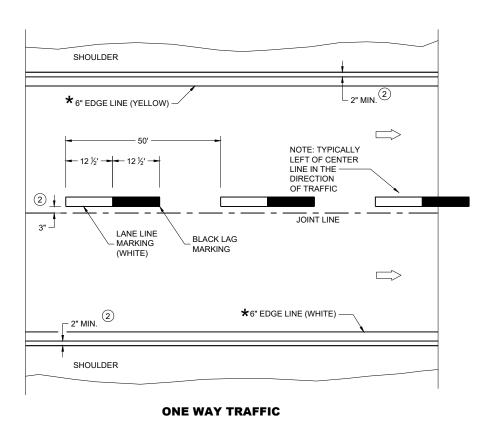
DISTANCE TABLE

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
FHWA	



PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL **PAVEMENT MARKINGS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE

/S/ Jeannie Silver Statewide Pavement Marking Engineer

6

SDD

C08-23 Ŋ SD

15C08-23a





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 (TWO POSTS REQUIRE)	
	L	E
***	Greater than 48" Less than 60"	12''
	60" to 108"	L/5

HWY:

SIGN SHAPE OTHER THAN	DIAMOND
(THREE POSTS REQUIR	RED)
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

CHEET NO.

SHEET NO:

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

PROJECT NO:

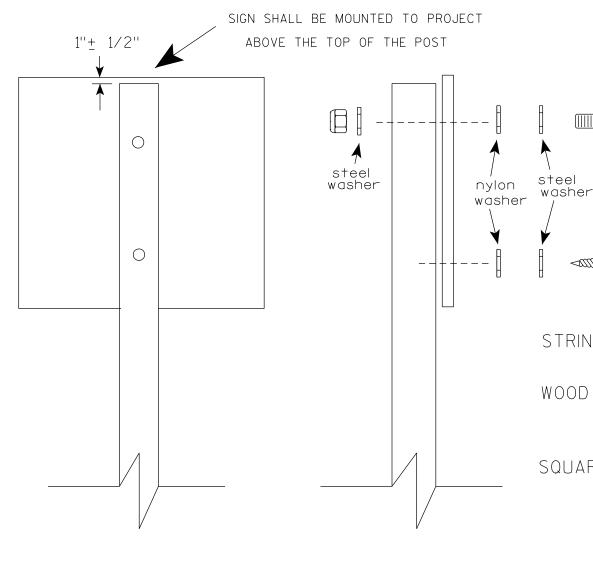
COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

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

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

PROJECT 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:

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

Manher R

APPROVED

DATE 4/19/2022 PLATE NO. A5-10.3

SHEET NO:

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

PROJECT NO:

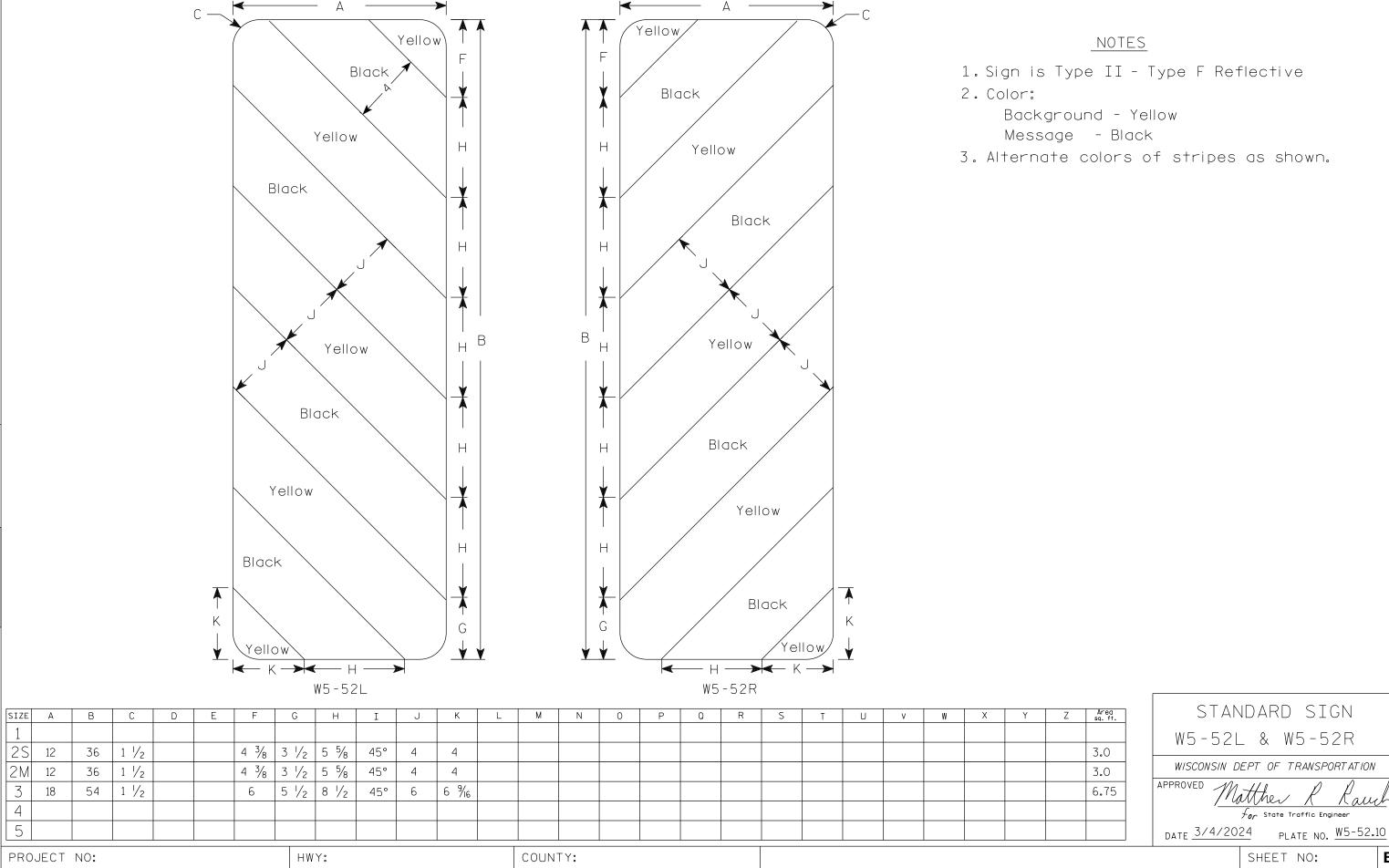
PLOT DATE: 19-APRIL 2022 11:55

SIGN

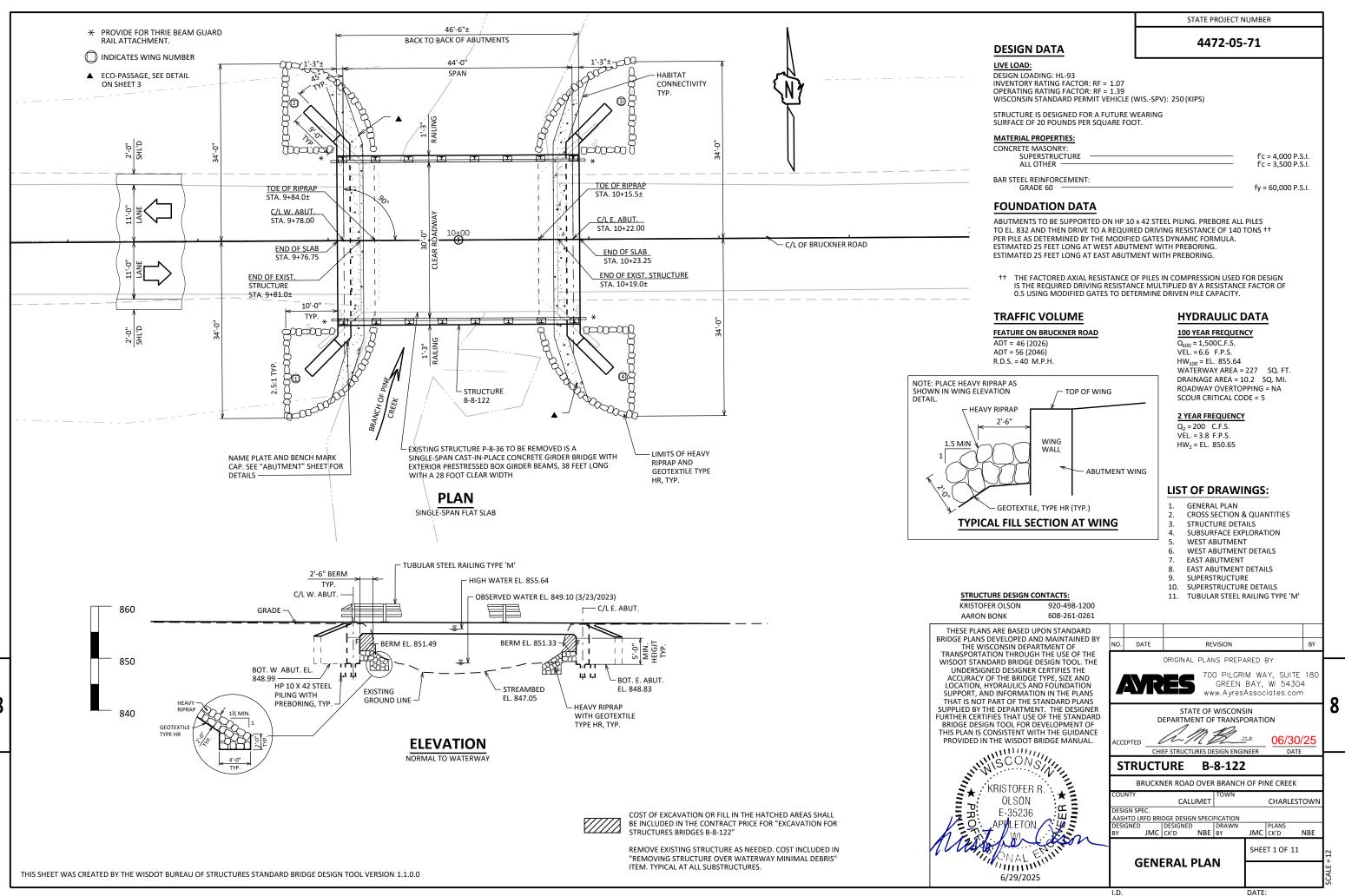
PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε



PLOT DATE: 4-MARCH 2024 11:57 PLOT NAME : PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42 PLOT BY : dotc4c



PROFILE GRADE LINE

TOTAL ESTIMATED QUANTITIES

= (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)

= EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)

= WING LENGTH (FT)

 $= V_{CF}(EF)/27$

FF

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	W. ABUT.	E. ABUT.	TOTALS
203.0211.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL P-8-36	EACH				1
203.0270	REMOVING STRUCTURE OVER WATERWAY DEBRIS CAPTURE (P-8-36)	EACH				1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES (B-8-122)	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON		171	171	342
502.0100	CONCRETE MASONRY BRIDGES	CY	107	28	28	163
502.3200	PROTECTIVE SURFACE TREATMENT	SY	194	15	15	224
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2,310	2,310	4,620
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	23,140	1,510	1,510	26,160
513.4061	RAILING TUBULAR TYPE M	LF	98			98
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		6	6	12
550.0020	PRE-BORING UNCONSOLIDATED MATERIALS	LF		140	140	280
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		175	175	350
606.0300	RIPRAP HEAVY	CY		70	75	145
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		75	75	150
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		48	48	96
645.0120	GEOTEXTILE TYPE HR	SY		140	140	280
SPV.0090	FLASHING STAINLESS STEEL	LF	83			83
SPV.0195	SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR	TON		9	9	18
	NON-BID ITEMS					
	FILLER	SIZE				1/2", 3/4"

THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 1.1.0.0

GENERAL NOTES

4472-05-71

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-8-122" SHALL BE THE EXISTING GROUNDLINE.

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

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

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

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.

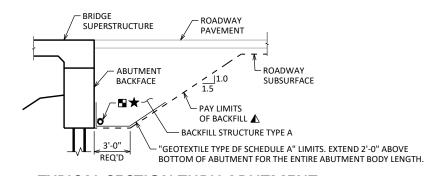
SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED 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.

EXISTING SUBSTRUCTURE LOCATIONS ARE BASED ON SURVEY. EXTENT OF BELOW GRADE SUBSTRUCTURES ARE NOT KNOWN. REMOVE EXISTING SUBSTRUCTURES AS NEEDED TO BUILD NEW SUBSTRUCTURES. COST OF SUBSTRUCTURE REMOVAL IS CONSIDERED INCIDENTAL TO "REMOVING STRUCTURE" BID ITEM

ASBESTOS CONTAINING MATERIAL WAS DETECTED IN THE BLACK TAR GASKET BETWEEN THE ORIGINAL DECK AND THE BOX BEAMS. SEE PROVISION "ABATEMENT OF ASBESTOS CONTAINING MATERIAL P-8-36 FOR DETAILS AND QUANTITY.

PROTECTIVE SURFACE 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.

★ FOR BOTTOM OF ABUTMENTS LOCATED BELOW NORMAL WATER. PLACE DRAIN ABOVE NORMAL WATER. SEE BRIDGE MANUAL 12.6.1 FOR ADDITIONAL GUIDANCE.

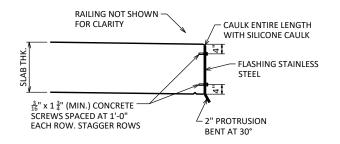
BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
800	13+66	RR SPIKE IN N SIDE PPOL #ON1853 - 31' RT	866.56
801	8+54	RR SPIKE IN S SIDE PPOL #936 - 34' LT	855.74

DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-8-122 JMC CK'D SHEET 2 OF 11 **CROSS SECTION &**

QUANTATIES

4472-05-71



FLASHING DETAIL FOR NEW BRIDGES WITH OPEN RAILING

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING, SILICONE CAULK, $\frac{3}{16}$ " CONCRETE SCREWS AND CLEANING THE EDGE OF THE SLAB PRIOR TO ATTACHMENT OF THE FLASHING.

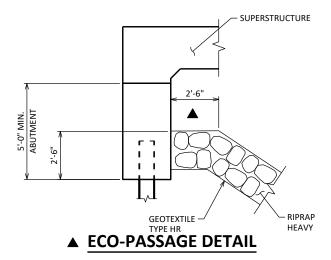
FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE TREATMENT APPLICATION.

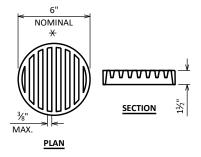
CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

EXTEND FLASHING TO BACK FACE OF ABUTMENT.

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

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



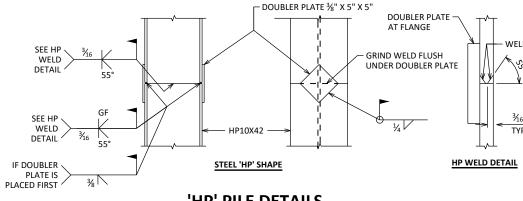


RODENT SHIELD DETAIL

* 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".

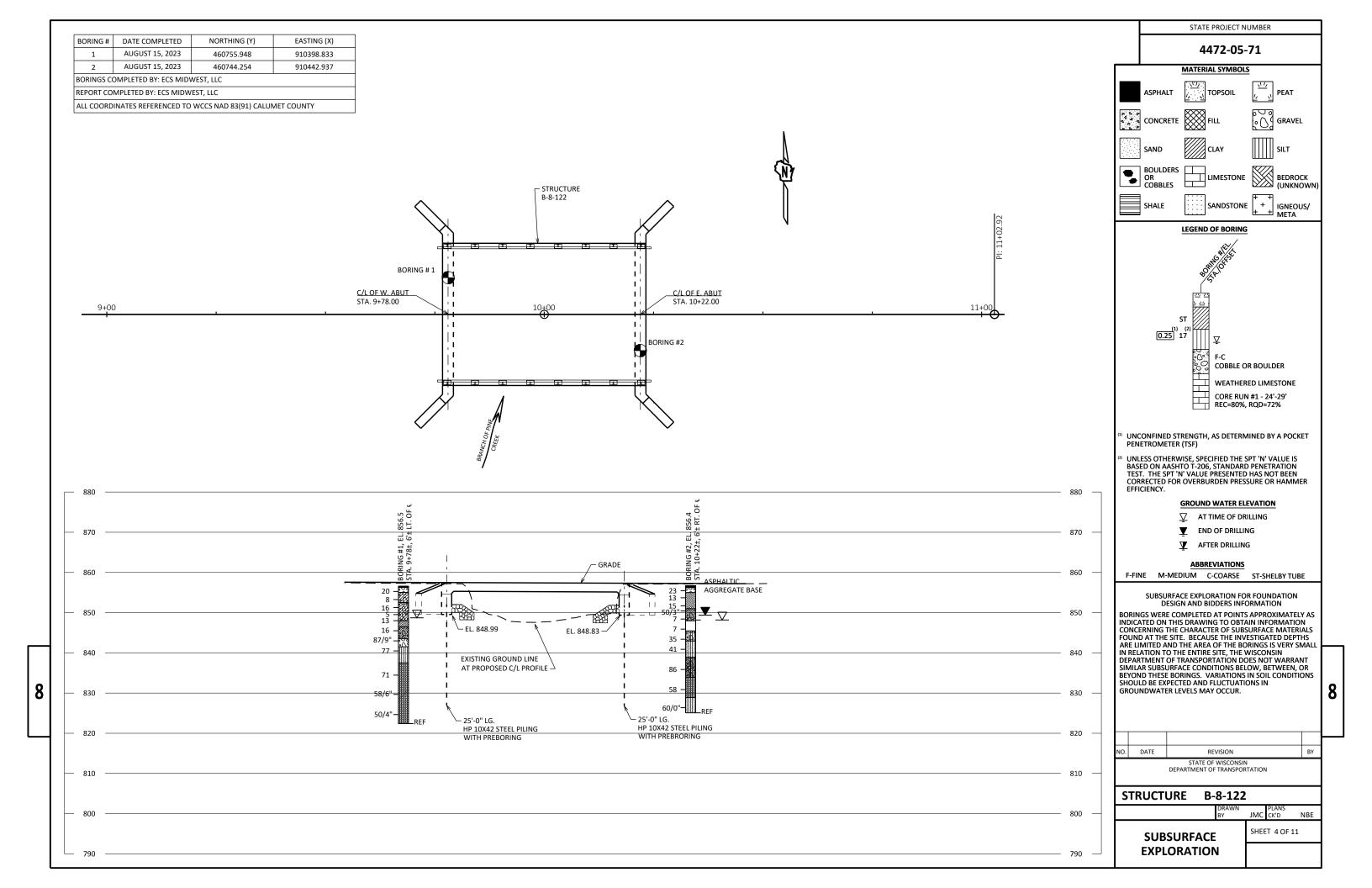
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X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

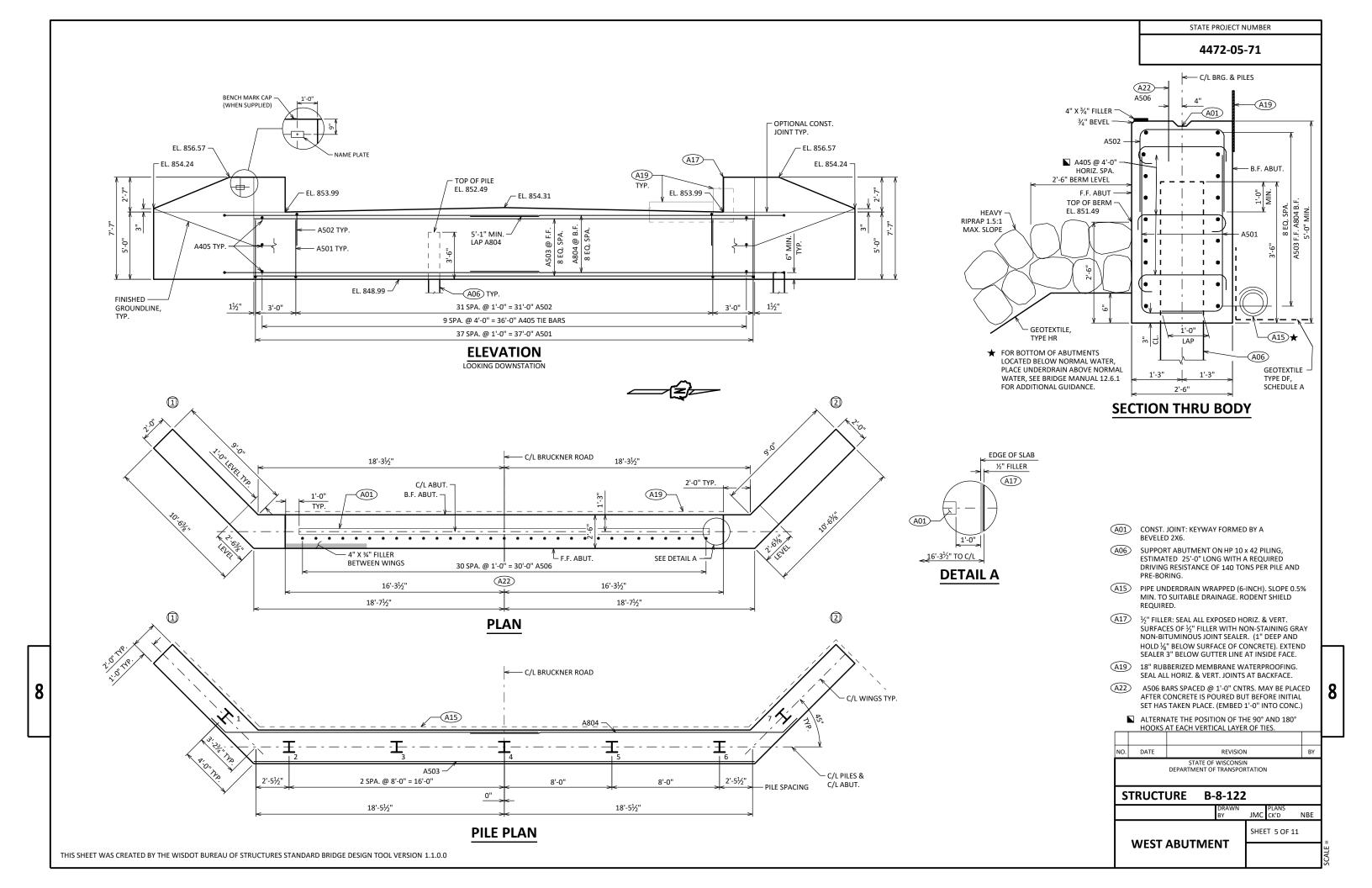


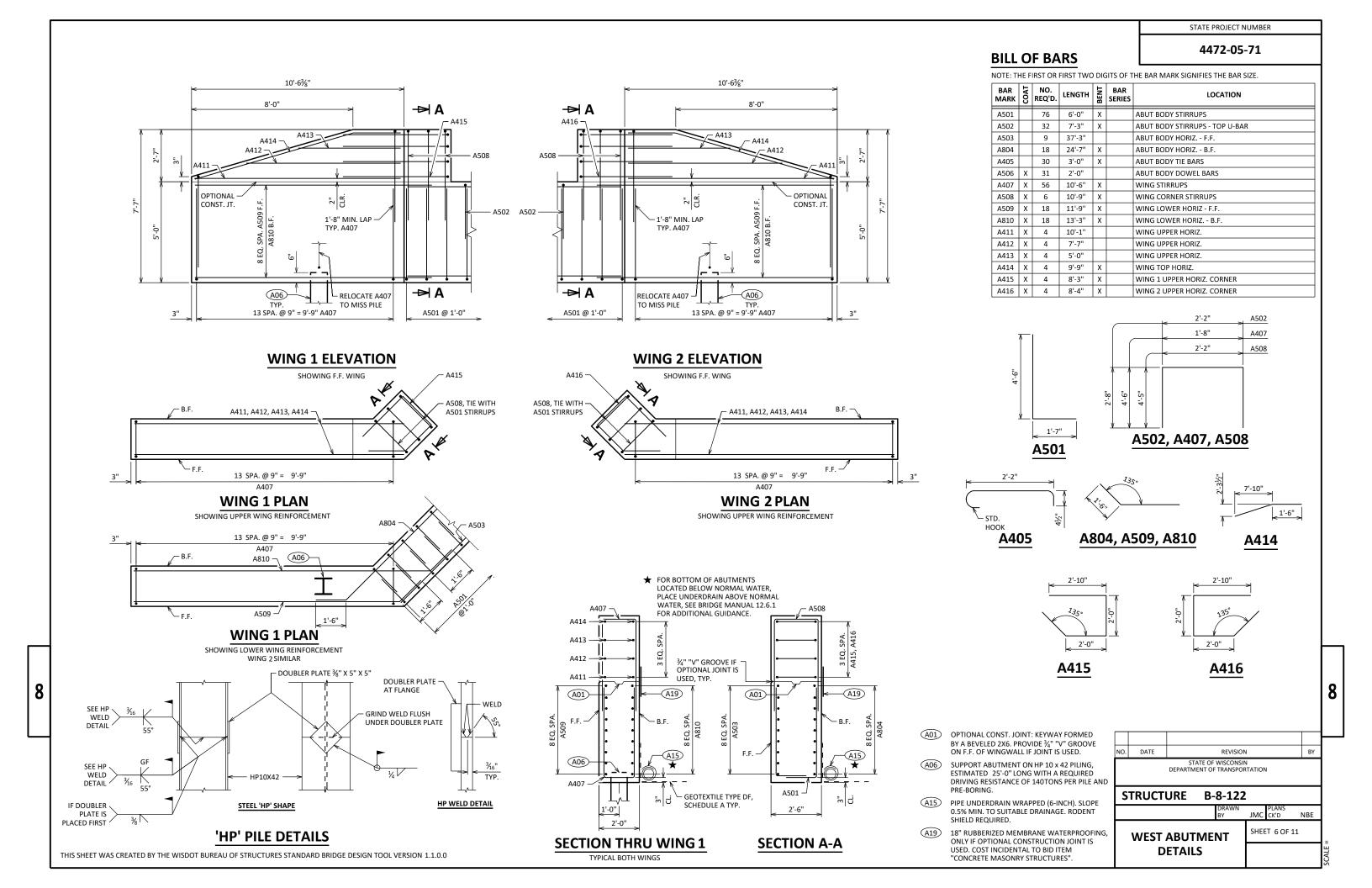
'HP' PILE DETAILS

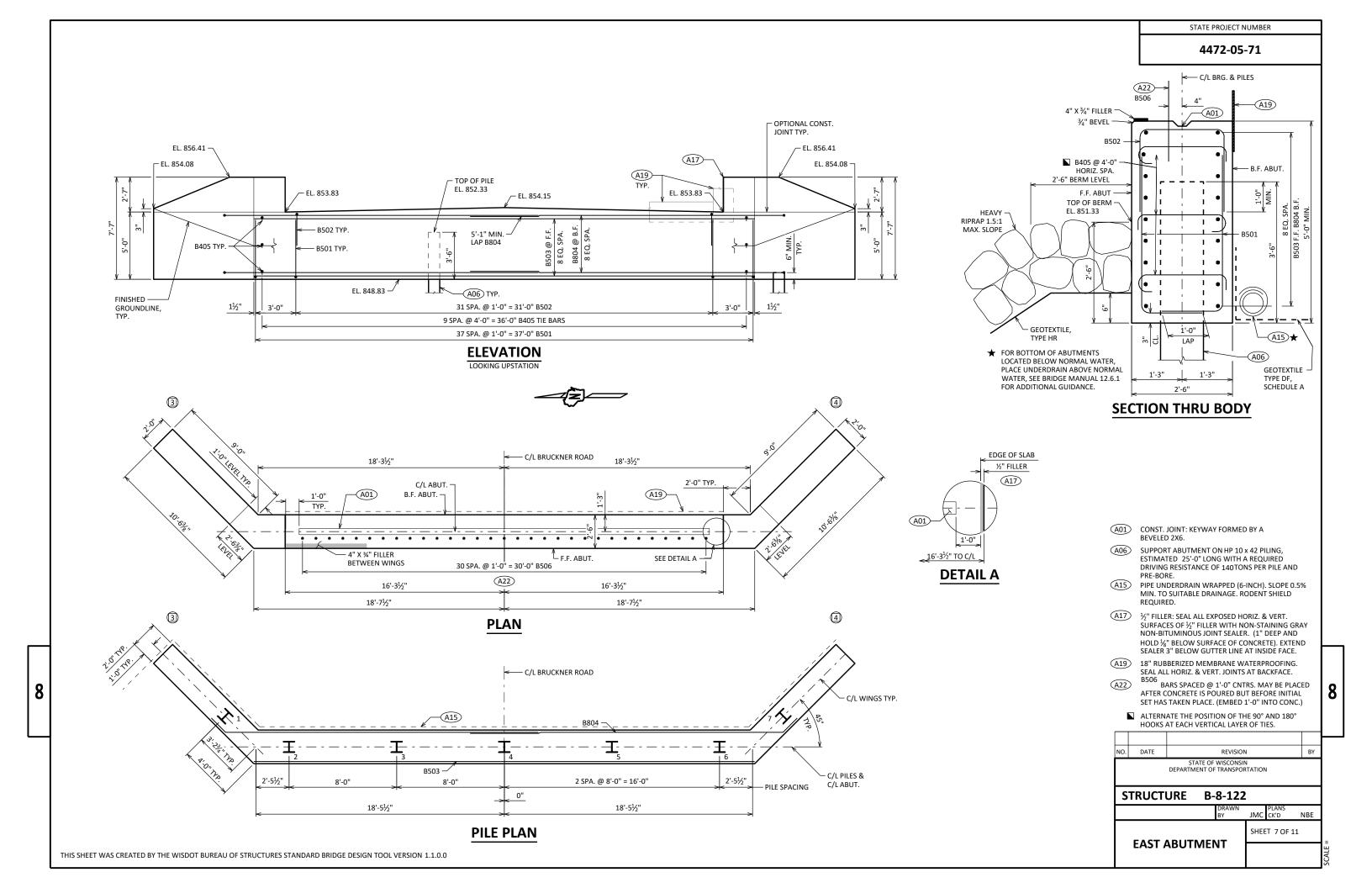
DATE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-8-122 JMC CK'D SHEET 3 OF 11

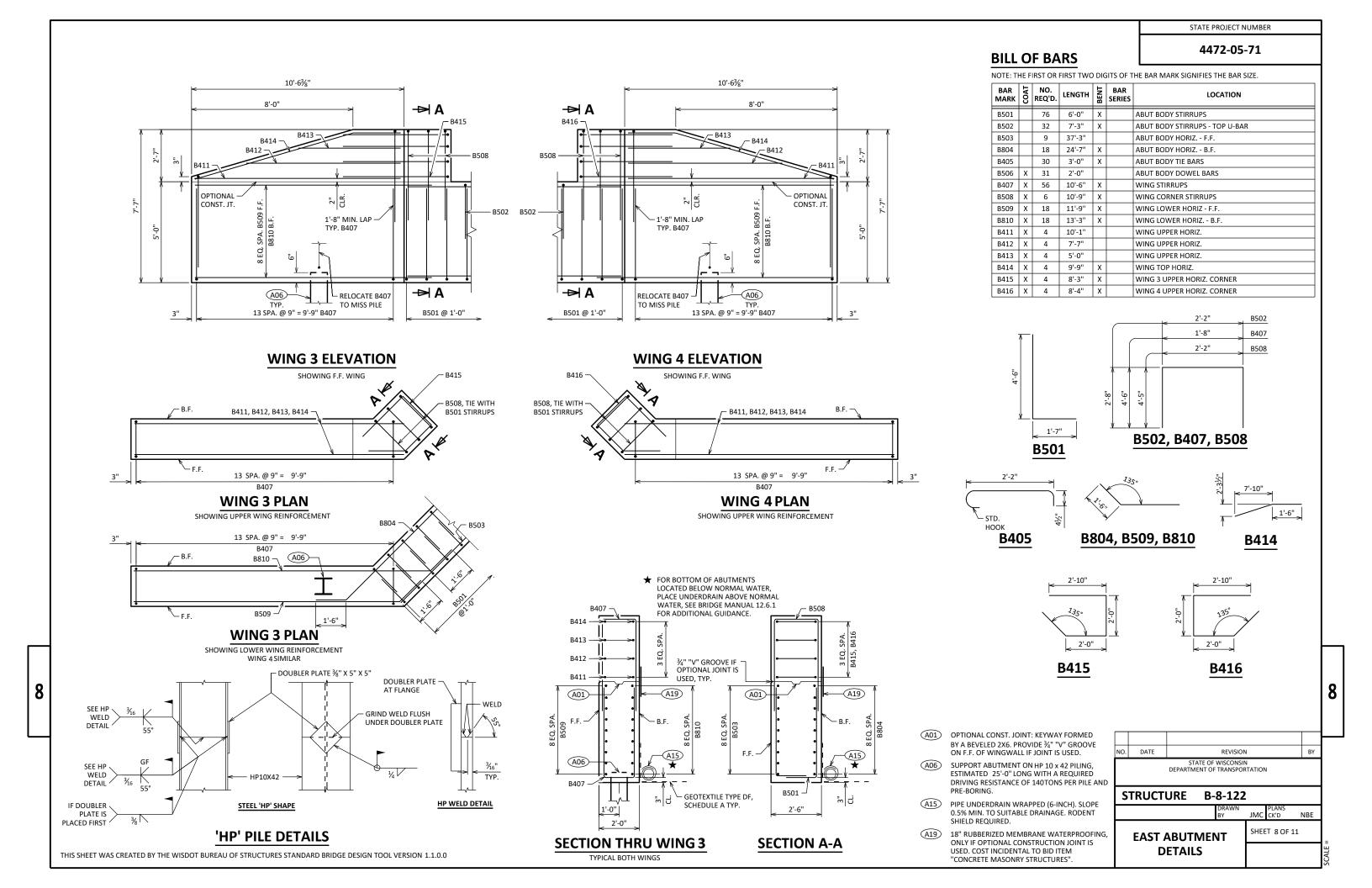
STRUCTURE DETAILS

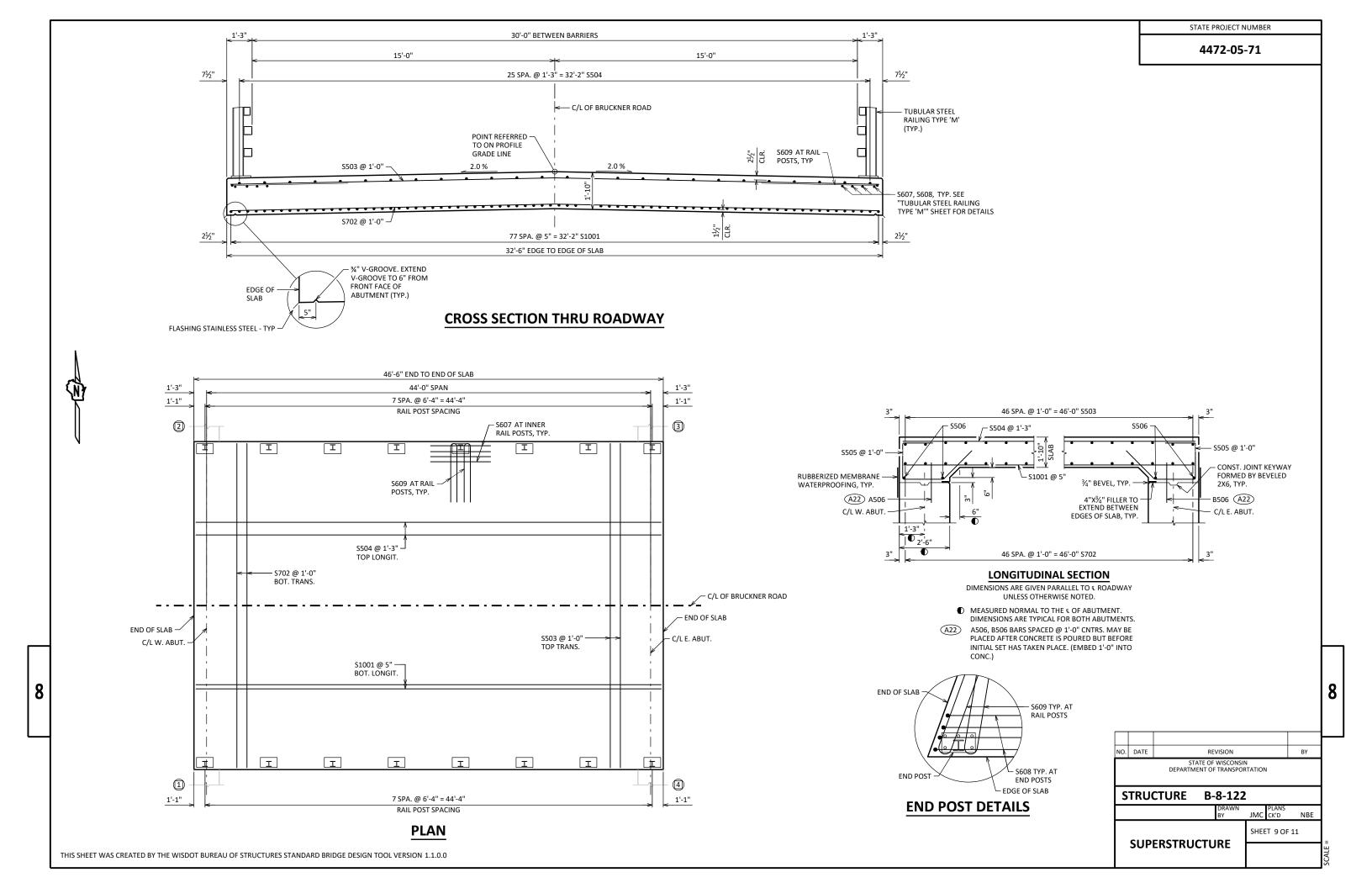












CAMBER AND SLAB THICKNESS DIAGRAM

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

.ESS SLAB THICKNESS

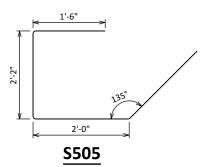
PLUS CAMBER

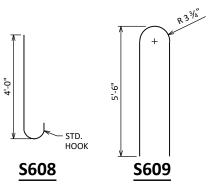
PLUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

EQUALS TOP OF SLAB FALSEWORK ELEVATION

TOP OF SLAB ELEVATIONS

LOCATION	C/L BRG. W. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L BRG. E. ABUT.
N. EDGE OF DECK	856.57	856.56	856.54	856.52	856.51	856.49	856.47	856.46	856.44	856.42	856.41
CROWN OR R/L	856.90	856.88	856.86	856.85	856.83	856.82	856.80	856.78	856.77	856.75	856.73
S. EDGE OF DECK	856.57	856.56	856.54	856.52	856.51	856.49	856.47	856.46	856.44	856.42	856.41





STATE PROJECT NUMBER

4472-05-71

BILL OF BARS

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	78	46'-2"			SLAB BOTTOM LONGITUDINAL		
S702	Х	47	32'-2"			SLAB BOTTOM TRANSVERSE		
S503	Х	47	32'-2"			SLAB TOP TRANSVERSE		
S504	Х	26	46'-2"			SLAB TOP LONGITUDINAL		
S505	Х	66	7'-5"	Х		ABUTMENT DIAPHRAGM STIRRUPS		
S506	Х	4	32'-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	11'-3"	Х		SLAB TOP HOOKS UNDER RAIL POSTS		

SURVEY TOP OF SLAB ELEVATIONS

LOCATION	ABUTMENT	5/10 PT.	ABUTMENT		
N. GUTTER					
CROWN OR R/L					
S. 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.

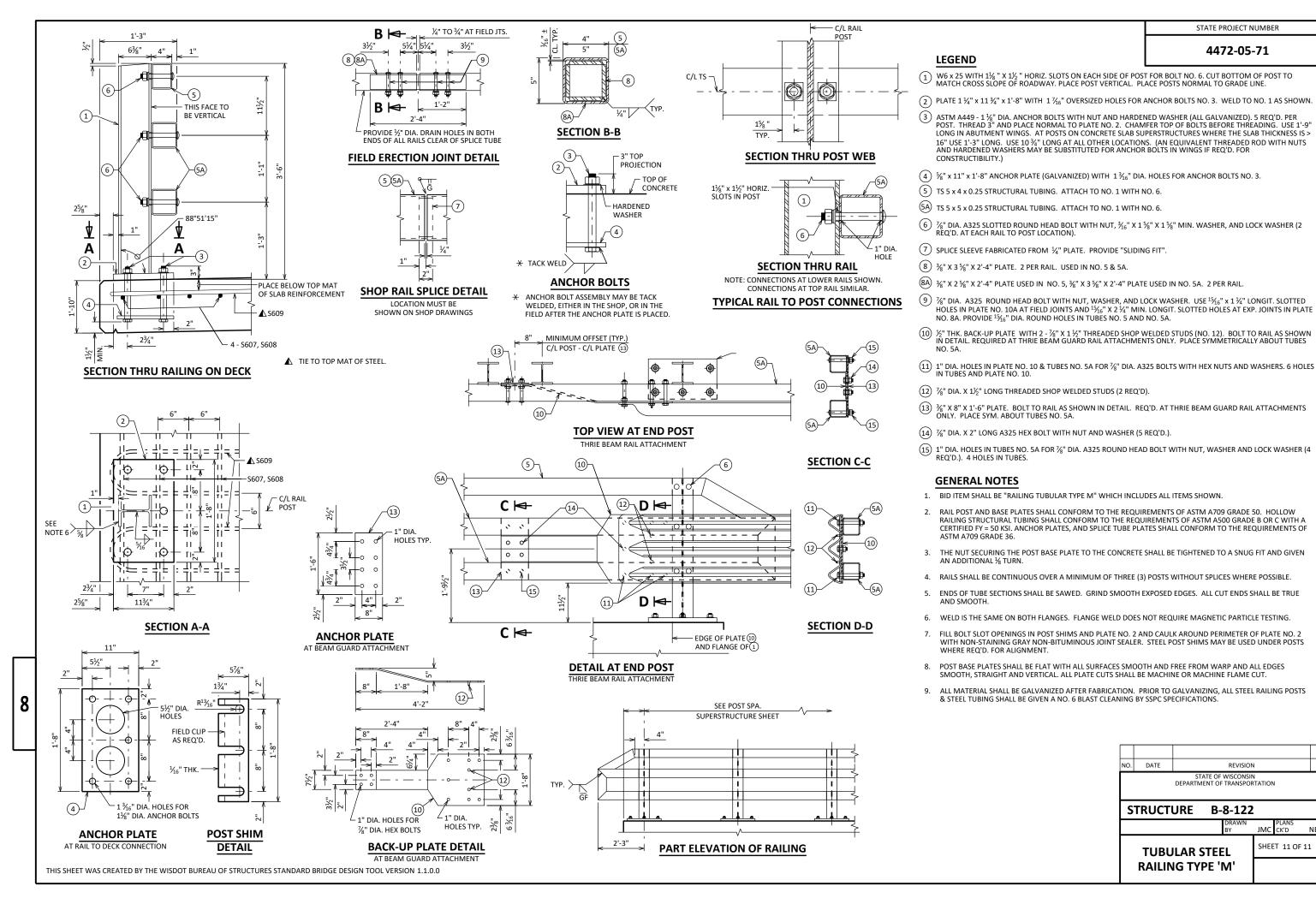
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

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

NO.	NO. DATE REVISION									
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
STRUCTURE B-8-122										
			JMC	PLANS CK'D	NBE					
	SUPER	SHEET 10 OF 11								
	D									

8

8



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EARTHWORK-BRUCKNER RD

		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	сит	PAVEMENT MATERIAL	FILL MA	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	MASS ORDINATE	
					NOTE 1				1.00 NOTE 1	1.30	1.50 NOTE 4	NOTE 8	
9+10	26.06	7.00	10.90	0.00	0	0	0	0	0	0	0	0	
9+50	24.90	7.00	75.50	50.42	38	10	64	37	38	84	56	-56	
9+64	27.33	7.00	72.87	52.39	14	4	38	27	52	134	97	-96	
9+77	27.33	7.00	72.87	52.39	14	4	38	27	66	184	138	-136	
B-08-0122													
10+23	27.27	7.00	62.75	0.00	0	0	0	0	66	184	138	-136	
10+34	27.27	7.00	62.75	0.00	12	3	28	0	78	221	138	-164	
10+50	23.56	7.00	25.20	0.00	15	4	26	0	93	255	138	-187	

93 25 194 91

9

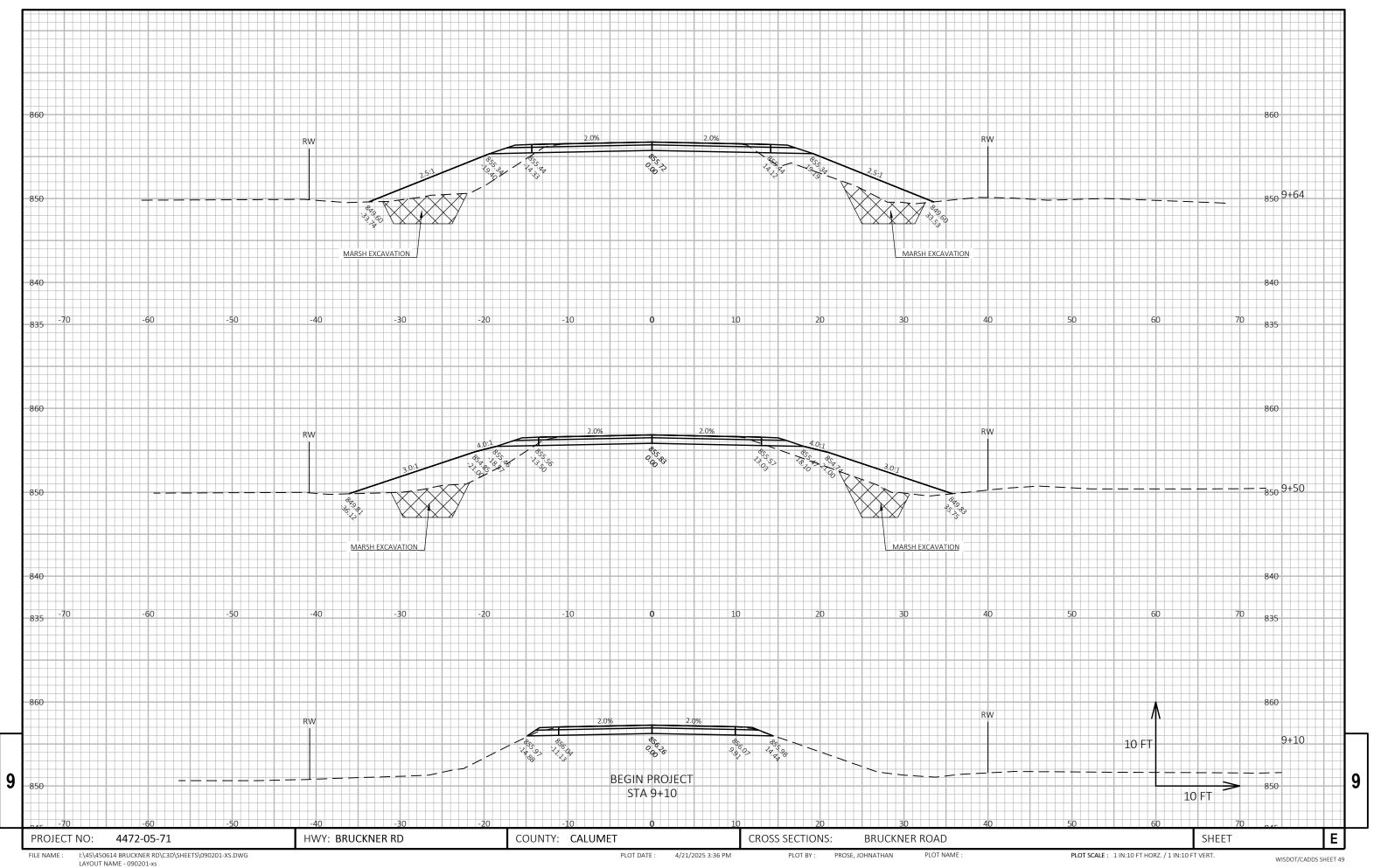
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED.

PROJECT NUMBER: 4472-05-71

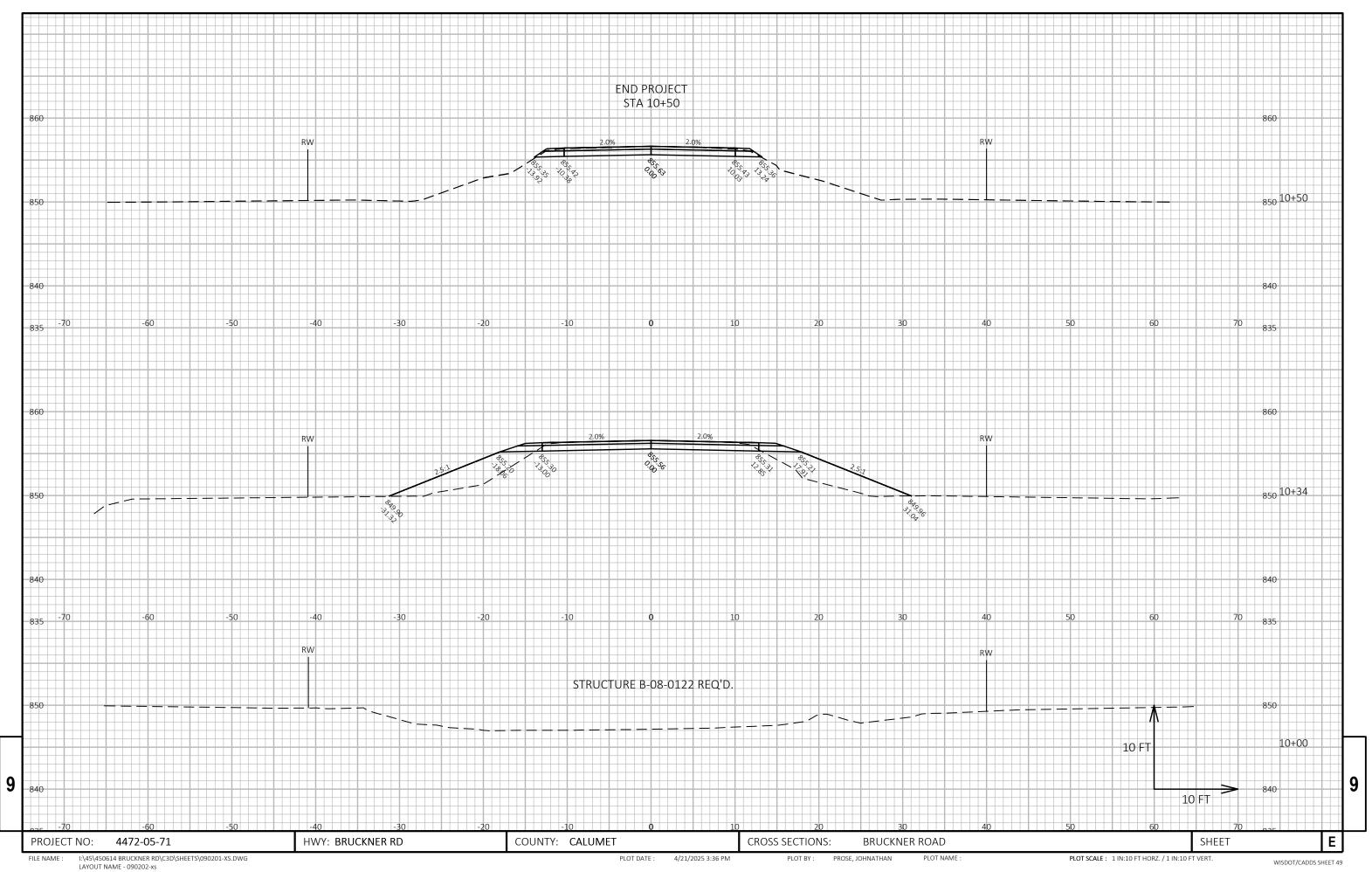
Notes:

1 - Cut
2 - Salvaged/Unusable Pavement Material
This does not show up in cross sections
Does not include Unusable Pavement Exc volume
Will be backfilled with Select Borrow
Will be backfilled with Select Borrow
Cut - Unusable Pavement Material - (Fill * Fill Factor)
Mass Ordinate Mass Ordinate does not include marsh excavation

HWY: BRUCKNER ROAD COUNTY: CALUMET COMPUTER EARTHWORK DATA SHEET NO:



LATOUT NAIVIE - USUZUI-XS





Wisconsin Department of Transportation

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