### December 2024 ORDER OF SHEETS

Section No. Section No. Estimate of Quantities Section No. Miscellaneous Quantities Section No.

Section No.

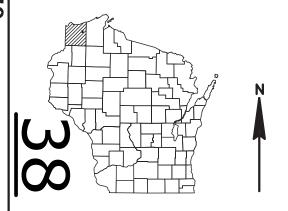
TOTAL SHEETS = 46

### Section No.

### Typical Sections and Details

Standard Detail Drawings

Computer Earthwork Data



### DESIGN DESIGNATION 8383-00-00

AADT A.A.D.T. = 79 D.H.V. = 8 D.D. = 50/50 = 10.0% DESIGN SPEED = 40 MPH

### CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS	<u> </u>	GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	_ ^ _ \
		MARSH OR ROCK PROFILE	_ ROCK_
LOT LINE		(To be noted as such)	
LIMITED HIGHWAY EASEMENT	L	SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY			.36
PROPOSED OR NEW R/W LINE		GRADE ELEVATION	95.
SLOPE INTERCEPT		CULVERT (Profile View)	0 🗆
REFERENCE LINE	300'EB'	UTILITIES	
REFERENCE LINE	<del></del>	ELECTRIC	— Е —
EXISTING CULVERT		FIBER OPTIC	—— FO ——
PROPOSED CULVERT (Box or Pipe)	<b>—</b>	GAS	—— G ——
	.\	SANITARY SEWER	—— SAN ——
COMBUSTIBLE FLUIDS	-CAUTION-	STORM SEWER	—— ss ——
	W.	TELEPHONE	— т —
MARSH AREA	( * * * )	WATER	—— w ——
		UTILITY PEDESTAL	Ħ
	~~~~~~	POWER POLE	Ь
WOODED OR SHRUB AREA	ξ	TELEPHONE POLE	ø

### STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

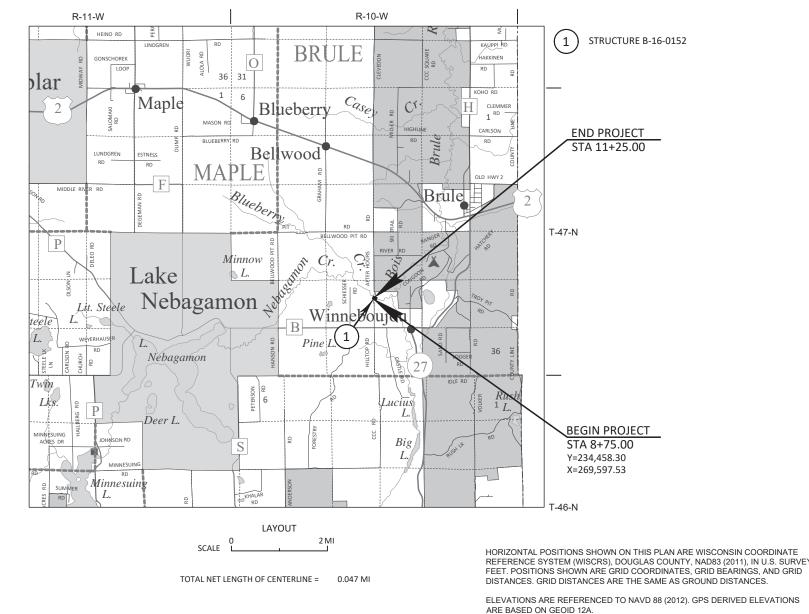
PLAN OF PROPOSED IMPROVEMENT

### T BRULE, AFTER HOURS ROAD

**NEBAGAMON CREEK BRIDGE B-16-0152** 

### **LOC STR DOUGLAS COUNTY**

STATE PROJECT NUMBER 8383-00-70



ACCEPTED FOR TOWN **BRULE** 

FEDERAL PROJECT

WISC 2025129

CONTRACT

7/10/24

STATE PROJECT

8383-00-70

### ORIGINAL PLANS PREPARED BY





### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor Designer PAULA GROOM, PE TOU YANG, PE

### STANDARD ABBREVIATIONS:

**ABUTMENT** ID **INSIDE DIAMETER ABUT** ACRE INV INVERT AGGREGATE IRON PIPE ON PIN AGG IΡ APRON ENDWALL FOR CULVERT PIPE LHF LEFT-HAND FORWARD **AECPRC** REINFORCED CONCRETE LENGTH OF CURVE APRON ENDWALL FOR CULVERT PIPE LINEAR FOOT 1 F CORRUGATED STEEL LC LONG CHORD OF CURVE ΔSPH ASPHALTIC **LUMP SUM** LS **AVERAGE** AVG MANHOLE MH AVERAGE DAILY TRAFFIC ADT MOR MID POINT OF RADIUS BF **BACK FACE** NORMAL CROWN NC BM BENCH MARK NUMBER NO RR BRIDGE **OBLIT OBLITERATE** CE COMMERCIAL ENTRANCE **PAVEMENT** PAVT C/L CENTER LINE PE PRIVATE ENTRANCE CENTRAL ANGLE OR DELTA POINT OF VERTICAL REVERSE CURVE **PVRC** COB CENTER OF BARRIER QUARTER POINT OF RADIUS OOR CONC CONCRETE RADIUS CULVERT PIPE REINFORCED CONCRETE REQ'D REQUIRED CULVERT PIPE REINFORCED CONCRETE RESIDENCE OR RESIDENTIAL CPRCHE RES HORIZONTAL ELLIPTICAL RHF RIGHT-HAND FORWARD CR CREEK R/W RIGHT-OF-WAY CY **CUBIC YARD** RIVER **CURB AND GUTTER** C&G **ROADWAY RDWY** DEGREE OF CURVE R/L REFERENCE LINE DHV **DESIGN HOUR VOLUME** SALVAGED SALV DISCH DISCHARGE SAN **SANITARY SEWER** DITCH GRADE DG **SQUARE FEET** DWY DRIVEWAY SOLIARE YARD SY **EAST GRID COORDINATE** STEEL PLATE BEAM GUARD ENERGY SDD STANDARD DETAIL DRAWINGS EAT STA STATION ARSORRING TERMINAL EOR **END POINT OF RADIUS** SS STORM SEWER STORM SEWER PIPE REINFORCED **ELEVATION** SSPRC ENTRANCE FNT SE SUPERELEVATION RATE **EQUIVALENT SINGLE AXLE LOADS ESALS** TC **TOP OF CURB** 

**DNR AREA LIAISON:** 

DNR NORTHERN REGION HEADQUARTERS 810 W. MAPLE STREET SPOONER, WI 54801 TELEPHONE: 715.635.4229 ATTENTION: AMY CRONK EMAIL: AMY.CRONK@WISCONSIN.GOV

**DESIGN CONTACT:** SHORT ELLIOTT HENDRICKSON INC

6808 ODANA ROAD, SUITE 200 MADISON, WI 53719-1137 TELEPHONE: 608.620.6192 ATTENTION: CHRISTOPHER BLUM EMAIL: CBLUM@SEHINC.COM

### MUNICIPALITY CONTACT:

TOWN OF BRULE 5231 S COUNTY LINE ROAD BRULE, WI 54820 TELEPHONE: 218.591.0693 ATTENTION: DIANE NELSON EMAIL: DRTHOMP999@GMAIL.COM

DAHLBERG LIGHT & POWER CO 9221 E MAIN STREET SOLON SPRINGS, WI 54873 TELEPHONE: 715.378.2205 ATTENTION: SCOTT SELLWOOD EMAIL: SCOTT@DAHLBERGLIGHTANDPOWER.COM

**NORVADO** P.O. BOX 67 CABLE, WI 54821 TELEPHONE: 715.580.8123 ATTENTION: GUY FOLSOM EMAIL: GFOLSOM@NORVADO.COM

Dial or (800)242-8511 www.DiggersHotline.com

### UTILITY CONTACT LIST:

### **GENERAL NOTES:**

- 1. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
- 2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.
- WETLANDS, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNI ESS APPROVED BY THE ENGINEER
- BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.
- CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.
- TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED
- 8. REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.
- THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 10. ASPHALTIC SURFACES SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
- 11. DISTURBED AREAS WITHIN THE RIGHT OF WAY. EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE SALVAGE TOPSOILED, FERTILIZED, SEEDED, AND EROSION MATTED.
- 12. FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.
- 13. A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE
- 14. THE BRIDGE APPROACHES SHALL BE PLACED IN TWO LIFTS. THE 4" OF ASPHALTIC SURFACE SHALL CONSIST OF A 2" LOWER LAYER AND A 2" UPPER LAYER.
- 15. APPLY TACK COAT AT A RATE OF 0.05 GA/SY BETWEEN LAYERS OF ASPHALTIC SURFACE.
- 16. ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.
- 17. THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN AND TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.
- 18. WDNR WATERWAY ACCESS PARKING AREA MUST REMAIN ACCESSIBLE AT ALL TIMES. NO CONSTRUCTION EQUIPMENT MAY BE STORED AT ACCESS.

### RUNOFF COEFFICIENT TABLE

T OR TN

TYP

VAR

VC

YD

TOWN

**TYPICAL** 

YARD

**VARIABLE** 

VERTICAL CURVE

TRUCKS (PERCENT OF)

NORTH GRID COORDINATE

		HYDROLOGIC SOIL GROUP											
		А			В			С			D		
	SLOPE RANGE (PERCENT)			SLO	SLOPE RANGE (PERCENT)			OPE RANG	GE (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						.7080							
DRIVES, WALKS						.7585							
ROOFS						.7595							
GRAVEL ROADS, SHO	ULDERS		•	•		.4060	•		-	•		-	

FXC

FRS

FC

FF

FE

FL

FO

CWT

HYD

FILE NAME

**EXIST** 

**FERT** 

**EXCAVATION** 

FACE OF CURB

FACE TO FACE

FIELD ENTRANCE

**EXISTING** 

FERTILIZE

FLOW LINE

HYDRANT

FIBER OPTIC HUNDREDWEIGHT

**EXCAVATION BELOW SUBGRADE** 

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.3ACRES

PROJECT NO: 8383-00-70 HWY: LOC STR

COUNTY: DOUGLAS

10/16/2024 2:33 PM

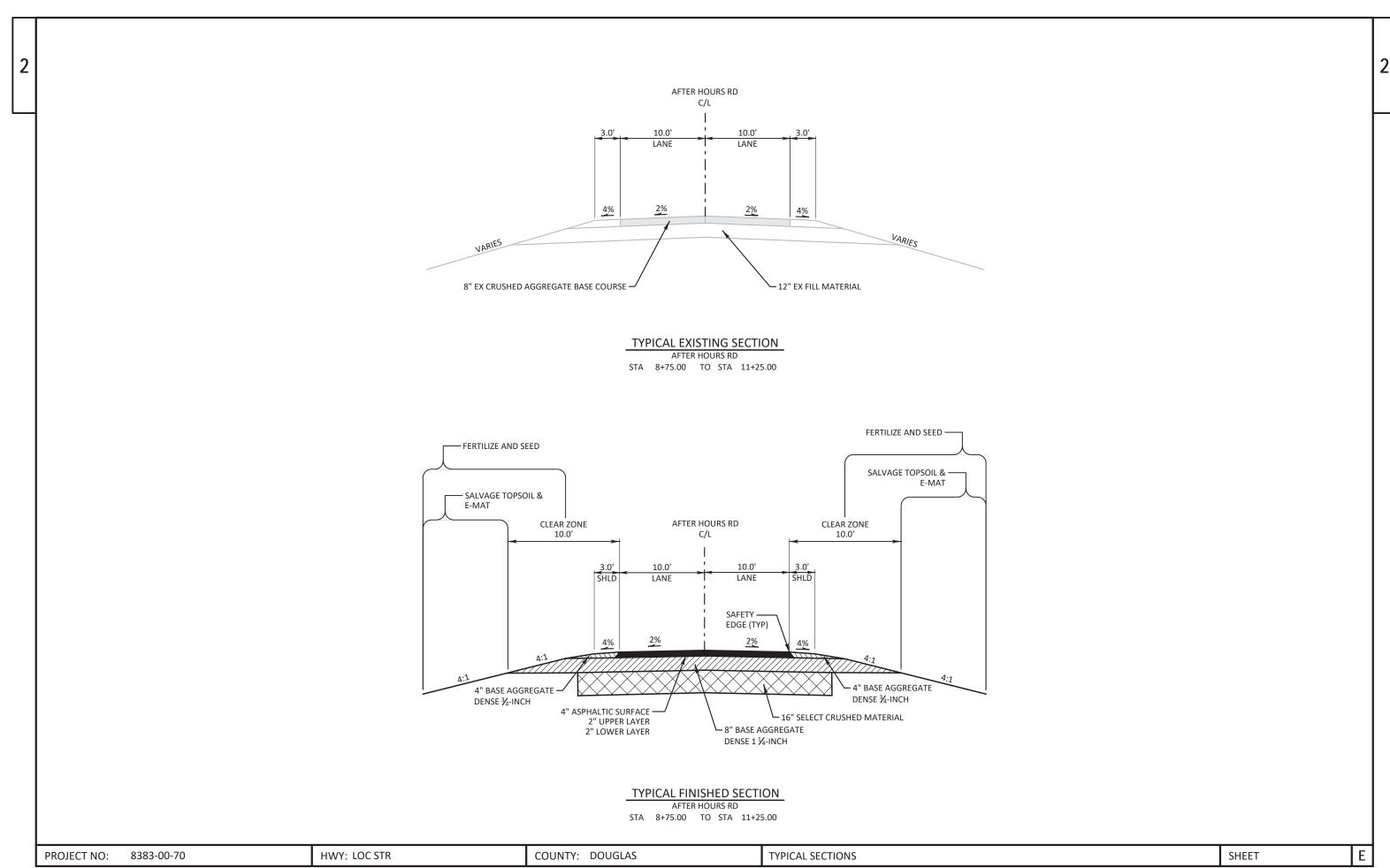
**GENERAL NOTES** 

JASMINE MOLDOVAN

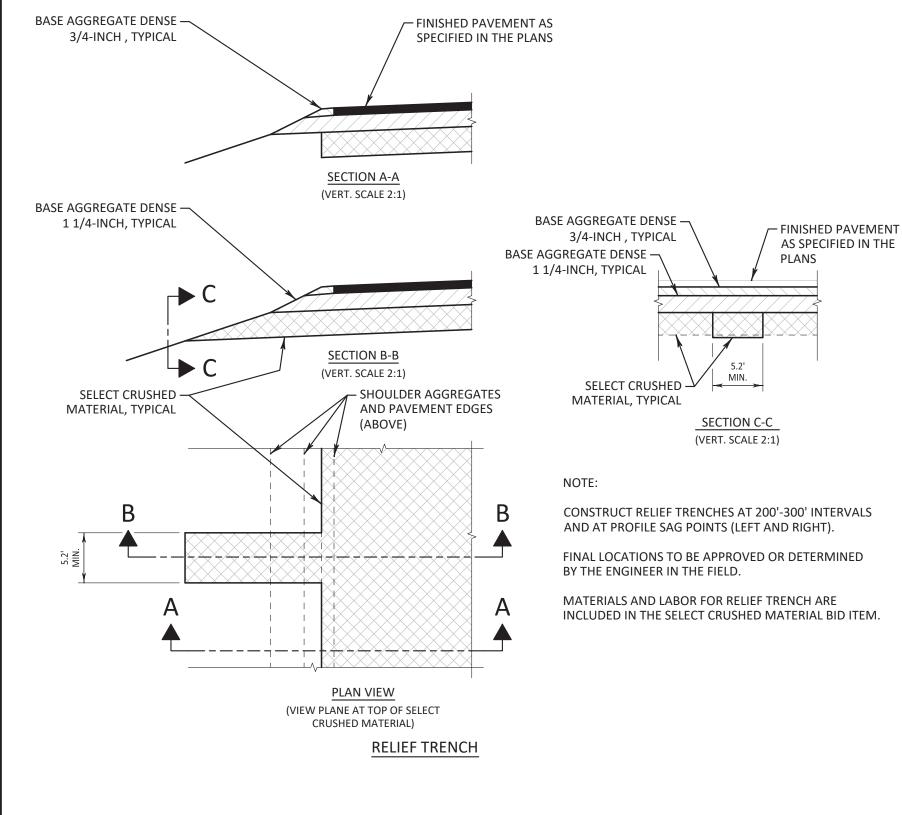
PLOT NAME

PLOT SCALE : 1 IN:100 FT **SHEET** 

Ε



BASE AGGREGATE DRIVEWAYS AND FIELD ENTERANCES (PE,CE, OR FE)



HWY: LOC STR

PLOT BY: SEH

**CONSTRUCTION DETAILS** 

LAYOUT NAME: X01

PLOT SCALE: 1 IN:100 FT

WISDOT/CADDS SHEET 42

SHEET

COUNTY: DOUGLAS

PROJECT NO:

8383-00-70

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A.3	M.3-		-/11

					8383-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-16-091	EACH	1.000	1.000	
0004	205.0100	Excavation Common	CY	490.000	490.000	
0006	206.1001	Excavation for Structures Bridges (structure) 01. B-16-0152	EACH	1.000	1.000	
8000	210.1500	Backfill Structure Type A	TON	455.000	455.000	
0010	213.0100	Finishing Roadway (project) 01. 8383-00-70	EACH	1.000	1.000	
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	30.000	30.000	
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	300.000	300.000	
0016	312.0110	Select Crushed Material	TON	500.000	500.000	
0018	455.0605	Tack Coat	GAL	40.000	40.000	
0020	465.0105	Asphaltic Surface	TON	120.000	120.000	
0022	502.0100	Concrete Masonry Bridges	CY	173.000	173.000	
0024	502.3200	Protective Surface Treatment	SY	165.000	165.000	
0026	502.3210	Pigmented Surface Sealer	SY	46.000	46.000	
0028	505.0400	Bar Steel Reinforcement HS Structures	LB	4,220.000	4,220.000	
0030	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	27,400.000	27,400.000	
0032	516.0500	Rubberized Membrane Waterproofing	SY	10.000	10.000	
0034	550.0500	Pile Points	EACH	14.000	14.000	
0036	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	630.000	630.000	
0038	606.0300	Riprap Heavy	CY	60.000	60.000	
0040	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	142.000	142.000	
0042	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8383-00-70	EACH	1.000	1.000	
0044	619.1000	Mobilization	EACH	1.000	1.000	
0046	624.0100	Water	MGAL	20.000	20.000	
0048	625.0500	Salvaged Topsoil	SY	640.000	640.000	
0050	628.1504	Silt Fence	LF	487.000	487.000	
0052	628.1520	Silt Fence Maintenance	LF	487.000	487.000	
0054	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
0056	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0058	628.2027	Erosion Mat Class II Type C	SY	640.000	640.000	
0060	628.6005	Turbidity Barriers	SY	220.000	220.000	
0062	629.0210	Fertilizer Type B	CWT	1.000	1.000	
0064	630.0120	Seeding Mixture No. 20	LB	17.000	17.000	
0066	630.0200	Seeding Temporary	LB	17.000	17.000	
0068	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0070	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0072	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0074	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0076	642.5001	Field Office Type B	EACH	1.000	1.000	
0078	643.0420	Traffic Control Barricades Type III	DAY	1,206.000	1,206.000	
0800	643.0705	Traffic Control Warning Lights Type A	DAY	1,876.000	1,876.000	
0082	643.0900	Traffic Control Signs	DAY	938.000	938.000	
0084	643.5000	Traffic Control	EACH	1.000	1.000	
0086	645.0111	Geotextile Type DF Schedule A	SY	90.000	90.000	
8800	645.0120	Geotextile Type HR	SY	130.000	130.000	
0090	650.4500	Construction Staking Subgrade	LF	204.000	204.000	
0092	650.5000	Construction Staking Base	LF	204.000	204.000	
0094	650.6501	Construction Staking Structure Layout (structure) 01. B-16-0152	EACH	1.000	1.000	
0096	650.9911	Construction Staking Supplemental Control (project) 01. 8383-00-70	EACH	1.000	1.000	
0098	650.9920	Construction Staking Slope Stakes	LF	204.000	204.000	

### 10/22/2024 12:04:40

Page 2

8383-00-70

Line	Item	Item Description	Unit	Total	Qty
0100	715.0502	Incentive Strength Concrete Structures	DOL	1,038.000	1,038.000
0102	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0104	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0106	SPV 0195	Special 01, Select Crushed Material Riprap Filler	TON	6.000	6.000

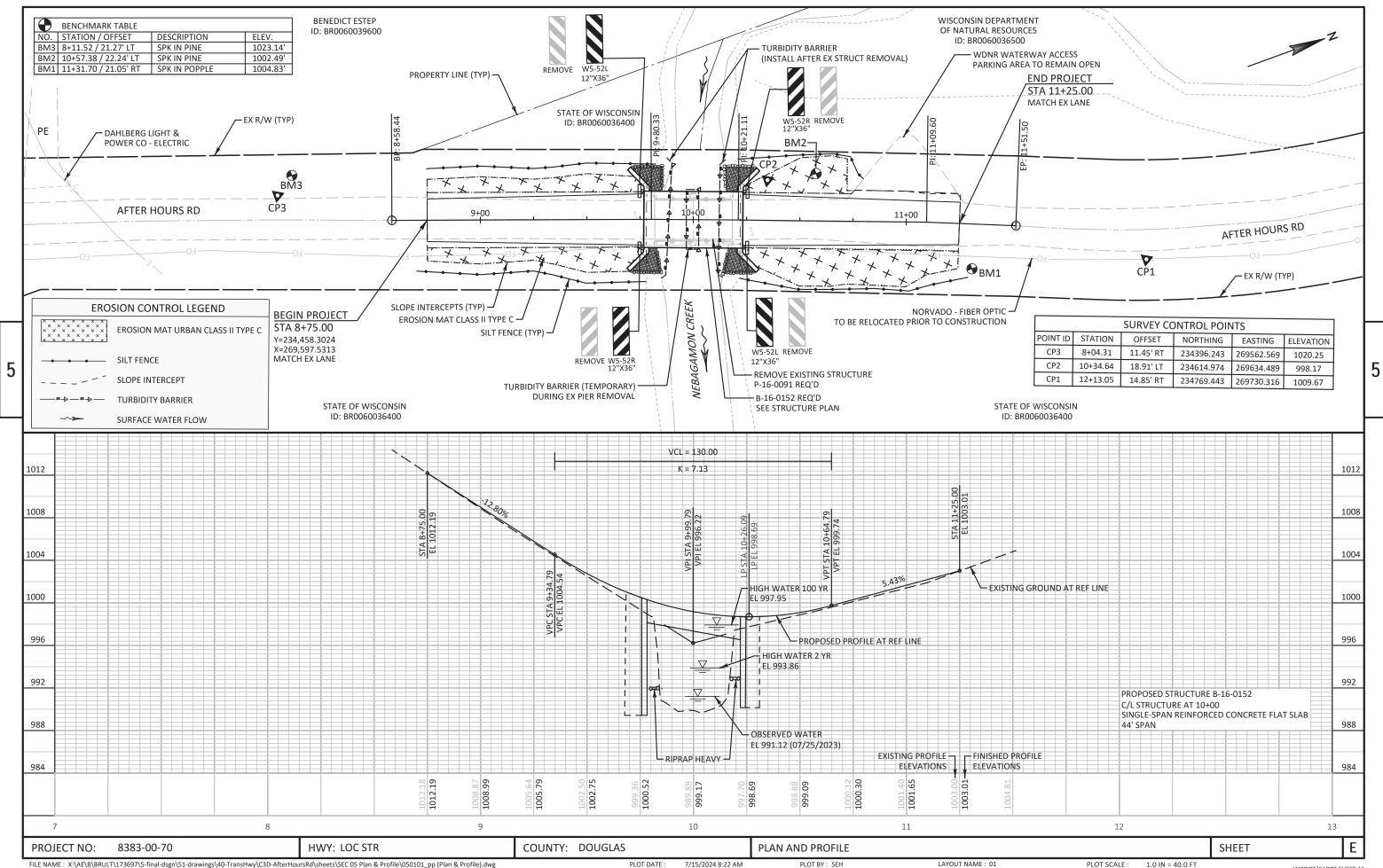
13

_															
			EA	RTHWORK SUMM	ARY										
١				205.0100 EXCAVATION	AVAILABLE	EXPANDED	MASS								
١	CATEGORY	STATION	LOCATION	COMMON (1) CY	MATERIAL (2) CY	FILL (3) CY	ORDINATE (4) +/-				BASE AGGREGATE 305.0110	<u>ITEMS</u> 305.0120	312.0110	624.0	2100
	0010										BASE AGGREGATE	BASE AGGREGAT	E SELECT CRUSH	ED WA	
┪		8+75 - 9+77 10+23 - 11+25	LT & RT LT & RT	190 300	190 300	52 8	138 292	CATEGORY	STATION TO	STATION	DENSE 3/4-INCH TON	DENSE 1 1/4-INC	H MATERIAL TON	MG	
		PROJECT TOTAL		490	490	60	430	0010	8+75 -	9+77	14	150	250	10	0
3	NOTES: 1) UNUSABLE	PAVEMENT MATE	ERIAL IS INCLU	JDED IN COMMON	I EXCAVATION.				10+23 - PARKING A	11+25 REA	14 2	150 -	250 -	10	U
	,	MATERIAL DOES I N FACTOR = 1.3	NOT INCLUDE	UNUSABLE PAVE	MENT EXCAVA	TION.		-	PROJECT TO	)TAI	30	300	500	20	0
$\dashv$	(4) THE MASS		QTY CALCULA	ATED FOR THE DIV	ISION. PLUS QI	UANTITY INDIC	ATES AN EXCESS		FNOJECTIO	JIAL	30	300	300	21	O
	OF MATERIAL WI	THIN THE DIVISIO	N. MINUS IND	DICATES A SHORTA	GE OF MATERI	IAL WITHIN TH	E DIVISION.								
$\mid$											T000-::	FERTUING	CEEDING.		
		<u>ASPHAL</u>	TIC PAVEMEN	<u>NT</u> *							<u>FOPSOIL</u>	, FERTILIZER AND		530.0120	
			455.0605	465.0105		MAINTE	NANCE AND REPAIF	R OF HAUL ROADS				625.0500 SALVAGED		SEEDING MIXTURE	630.0200 TEMPORARY
			TACK COAT	ASPHALTIC SURFACE		1417 (1141)	(8383-00-70	<u>))</u>				TOPSOIL	TYPE B	NO. 20	SEEDING
	CATEGORY	STATION	GAL	TON		CATEGORY	STATION	618.0100 EACH	CATEGORY 0010	STATIOI 8+75 - 9+		SY 121	0.2	<u>LB</u> 3	<u>LB</u> 3
	0010	8+75 - 9+77 10+23 - 11+25	20 20	60 60		0030	PROJECT LENG	TH 1	-	8+75 - 9+	-77 LT	109	0.2	3	3
	*TADER ASDL	ITEM TOTALS	40	120 CT TO BRIDGE CLEA	AR		ITEM TOTAL	. 1		10+23 - 11 10+23 - 11		191 90	0.2 0.1	5 2	2
	WIDTH.	IALI I NOIVI BLOIN	I/ LIVD I NOJEC	LI TO BINDOL CLL	311						DISTRIBUTED EM TOTALS	129 640	0.3 1.0	3 17	3 17
ł											SION CONTROL ITEMS		1.0		
		MO	DILIZATIONS F	EROSION CONTROI						628.152		628.6005			
		IVIO	DILIZATIONS E	EROSION CONTROL	628.1	910			628.1504	SILT FENO			,		
			N	628.1905 MOBILIZATIONS	MOBILIZA EMERG		CATEGORY	STATION LOCATION	SILT FENCE LF	MAINTENA LF	NCE CLASS II TYPE SY	C BARRIERS SY		REMARKS	
			·	EROSION	EROSI	ION	0010	8+75 - 9+77 RT	108	108	121	54	INSTALL TB A		RUCT REMOVAL
	CATEGOR	ry static	Ν	CONTROL EACH	CONTI EAC			8+75 - 9+77 LT 10+00 LT/RT	108	108	109	 65	TEMPORARY TI	B DURING E	X PIER REMOVAL
	0010	PROJECT LE		4	3			10+05 - 11+30 RT	108	108	191	54			RUCT REMOVAL
		TIEWITOT	IALS	4	5		_	10+16 - 11+30 LT UNDISTRIBUTED	65 98	65 98	90 129	 47			
								ITEM TOTALS	487	487	640	220			
				PER	MANENT SIGNI	<u>ING</u>	634.0	612 637.2230				REMOVING SIG		2	630 3000
					SIZE		POSTS V 4X6-INCH	VOOD SIGNS TYPE II						SIGNS REM	638.3000 10VING SMALL
	CATEGORY			SIGN CODE (INC	H) (INCH)	MESSAG	E EAC		_ <u>CAT</u>	EGORY S	STATION LOCATION		TYPE II EACH	SIG	SN SUPPORTS EACH
	0010	9+70 9+81	RT LT	W5-52-R 12 W5-52-L 12	36	CLEARANCE ST		3	0	010	9+70 RT 9+81 LT	CLEARANCE STR CLEARANCE STR			1
		10+05 10+16	RT LT	W5-52-L 12 W5-52-R 12		CLEARANCE ST		3			10+05 RT	CLEARANCE STR	IPER 1		1
			LI	PROJECT TO		CLL/ III/AIVCL J	4	12	_		10+16 LT PROJECT	CLEARANCE STR TOTAL	1 4		4
								-							
L	PROJECT NO:	8383-00-70		HWY: LOC	STR		COUNTY: DOUGLA	NS .	MISCELLANEOUS	QUANTITIES				SHEET	E

3

CATEGORY	STAGE	DDOUEST LOCATION	APPROX. SEF	RVICE	643.0420 TRAFFIC CONTRO BARRICADES TYPE	JL E III	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0900 TRAFFIC DNTROL SIGNS		
CATEGORY 0010	STAGE 1	PROJECT LOCATION  PROJECT LENGTH	PERIOD DA 67 PROJECT	18	1,206 1,206	QTY. 28	DAY 1,876 1,876	QTY. 14	938 938		
			<u>C</u> (650.4500	ONSTRUCTION 650.5000		501	650.9911	61	50.9920		
			DNSTRUCTION STAKING SUBGRADE	CONSTRUCT	CONSTRU	ICTION NG LAYOUT	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL	CON: STAK	STRUCTION KING SLOPE STAKES		
CATEGORY 0010	PR	STATION OJECT LENGTH ROJECT TOTAL	LF 204 204	LF 204 204	EACI 1		(7364-00-70) <u>EACH</u> 1		LF 204 204		

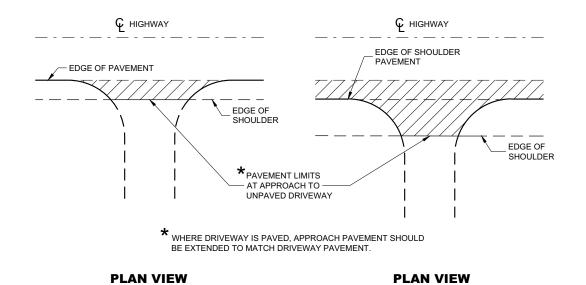
FILE NAME: X:\AE\B\BRULT\173697\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\C3D-AFTERHOURSRD\SHEETS\SEC 03 MISC QTYS\030201-MQ (MISC QTYS).DWG LAYOUT NAME - 02



### Standard Detail Drawing List

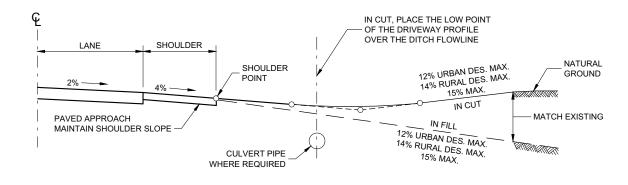
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6

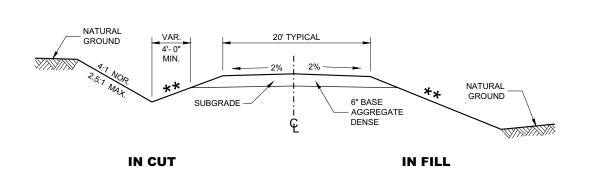


**RURAL DRIVEWAY INTERSECTION DETAIL** (NO CURB AND GUTTER OR SIDEWALK)

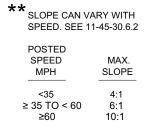
(PAVED SHOULDER ON HIGHWAY)

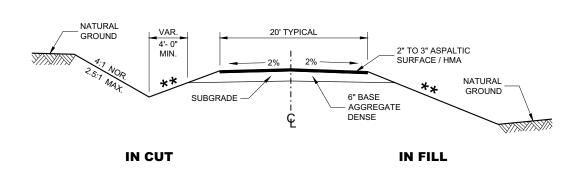


### **TYPICAL DRIVEWAY PROFILES**



(UNPAVED SHOULDER ON HIGHWAY)





**TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE** 

### **TYPICAL CROSS SECTION FOR** PRIVATE DRIVE OR FIELD ENTRANCE **AGGREGATE SURFACE**

### **DRIVEWAYS WITHOUT CURB AND GUTTER**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

Ò

08D21

SD

SDD 08D21

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/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR December 2017 DATE

### 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

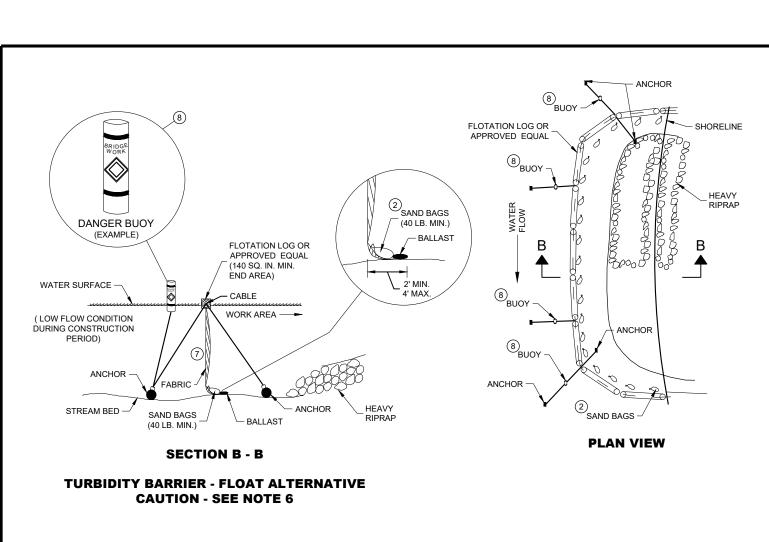
(WHEN REQUIRED BY THE ENGINEER)

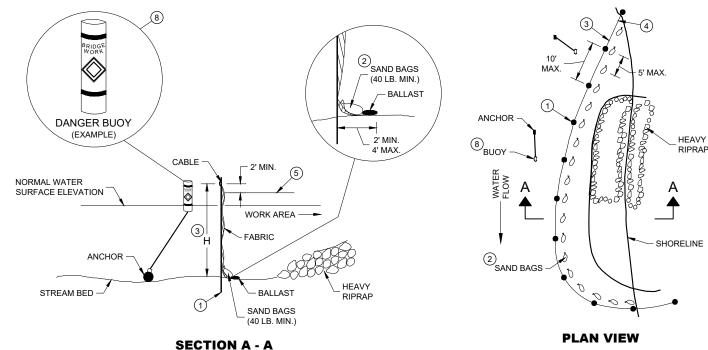


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D.D. 8 E 9-6





**TURBIDITY BARRIER - STANDARD POST INSTALLATION** 

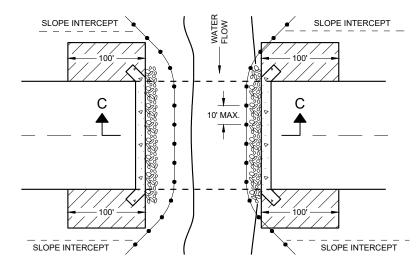
### **TURBIDITY BARRIER PLACEMENT DETAILS**

### **GENERAL NOTES**

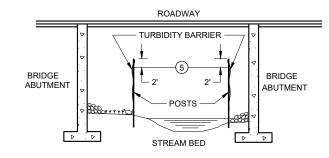
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

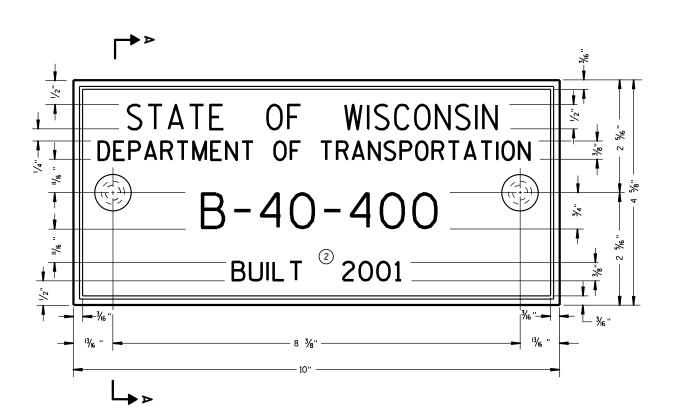
 $\infty$ 

6/4/02 /S/ Beth Cannestra

DATE CHIEF ROADWAY DEVELOPMENT
ENGINEER

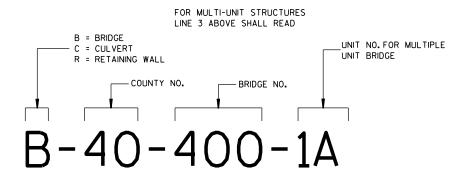
APPROVED





### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



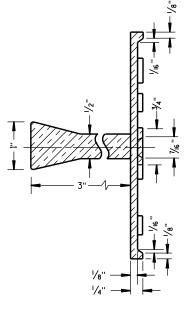
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

### **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.

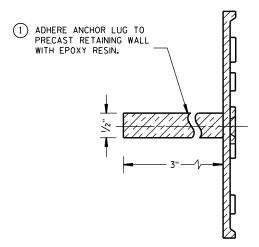
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

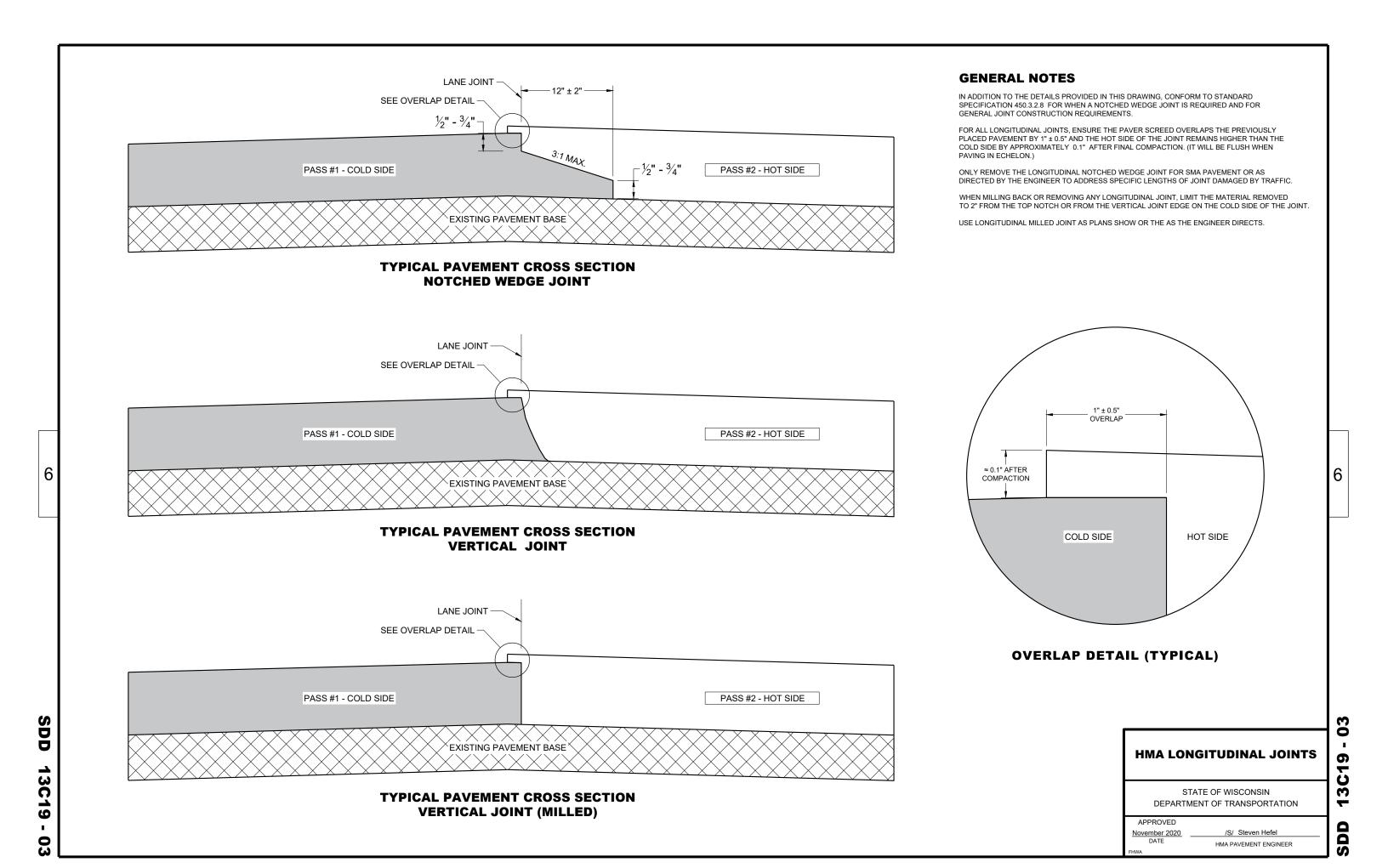
APPROVED

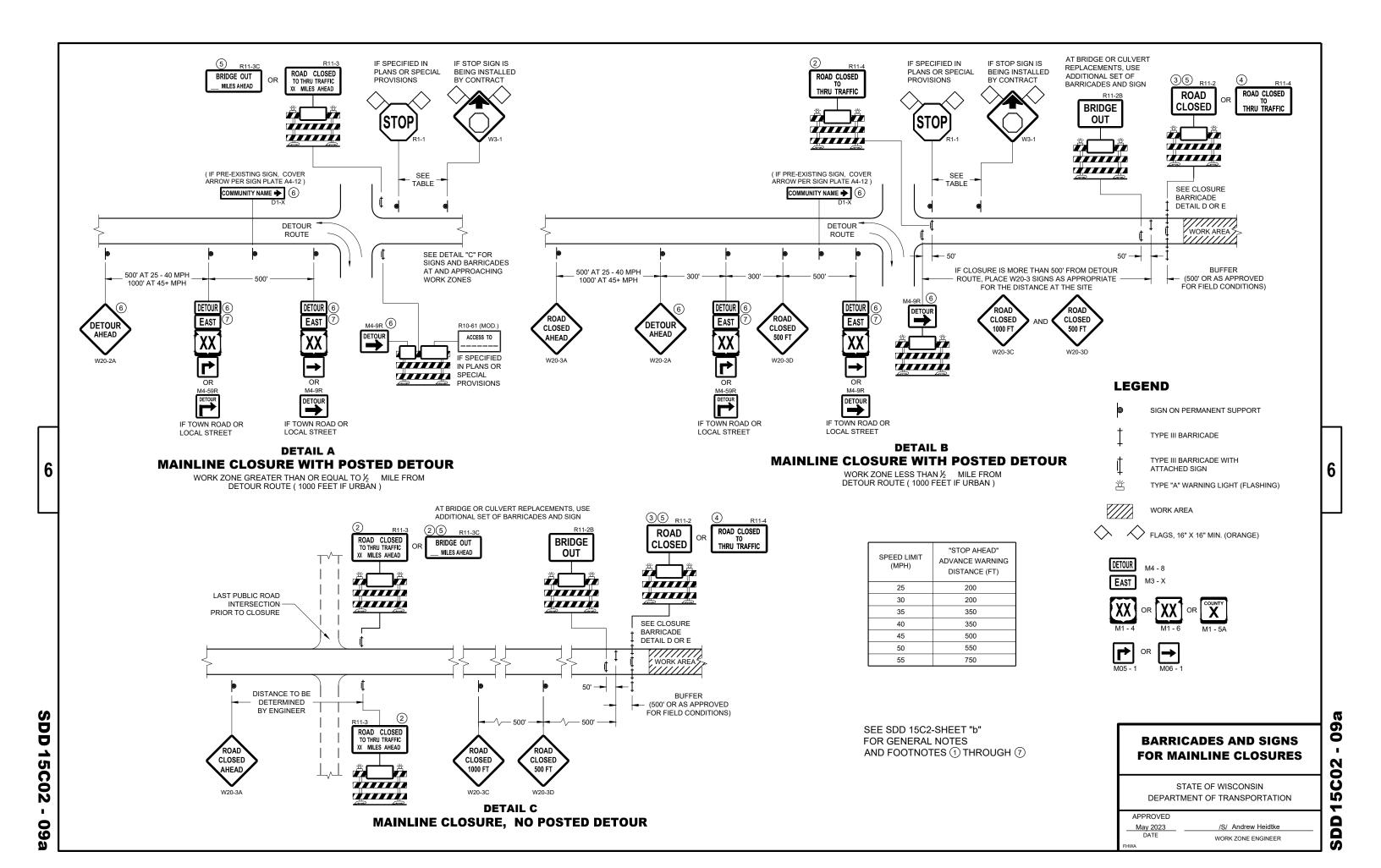
3/26/IO /S/ Scot Becker

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

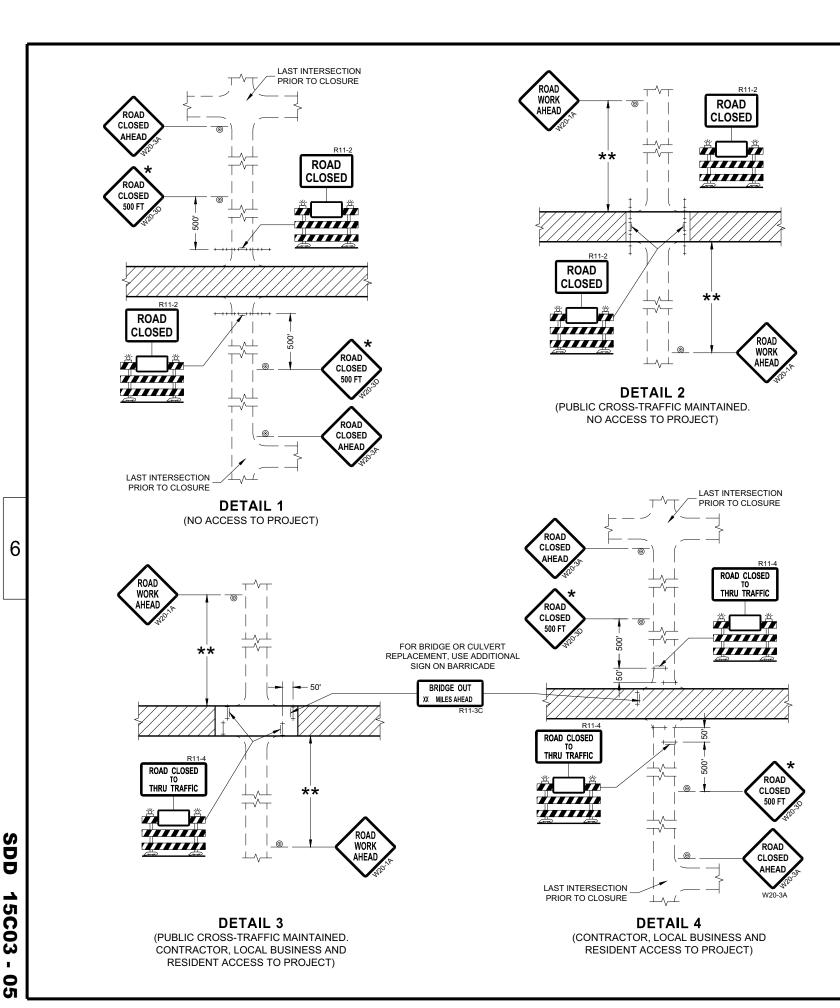
APPROVED May 2023

May 2023 /S/ Andrew Heidtke

DATE WORK ZONE ENGINEER

015C02 -

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### **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**

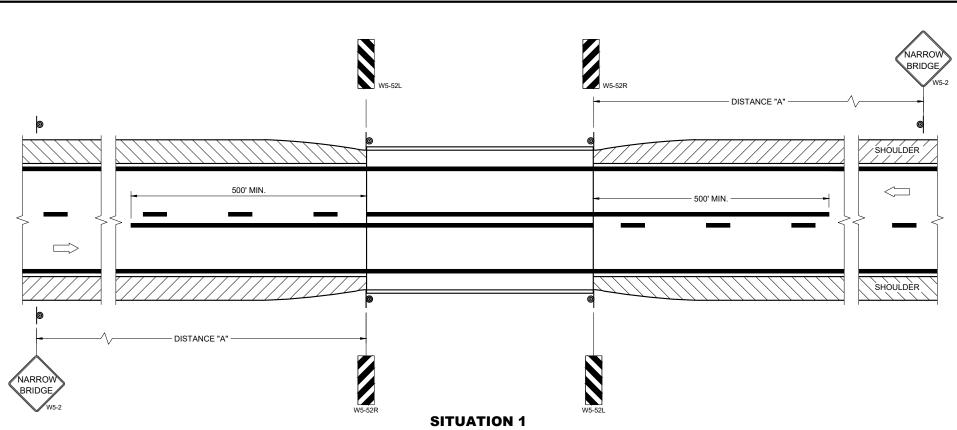
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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# 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

**GENERAL NOTES** 

FOUNDATION WHEN SECURED TO THE PAVEMENT.

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST

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

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

Ŋ SDD

WORK ZONE ENGINEER

**CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

**SDD 15C11** 

2" MAX.

4" MAX.

- WHITE 360° REBOUNDABLE
REFLECTIVE SHEETING

- FLEXIBLE ORANGE POST

FLUORESCENT ORANGE

The state of the state o

FLEXIBLE TUBULAR

**FLEXIBLE TUBULAR** 

**MARKER POST** 

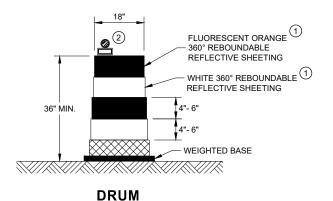
**WORK ZONE** 

November 2022 DATE /S/ Andrew Heidtke

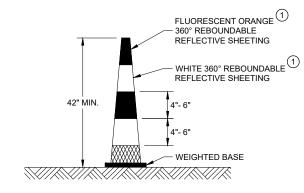
# **SDD 15C11**

### **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.

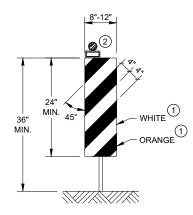


BALLAST WIDTHS RANGE FROM 24"-36"



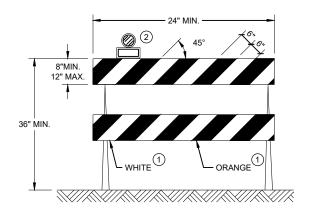
### **42" CONE**

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



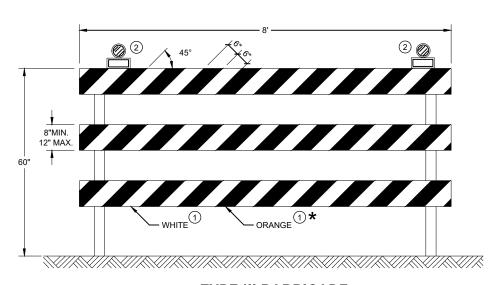
### **VERTICAL PANEL**

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.

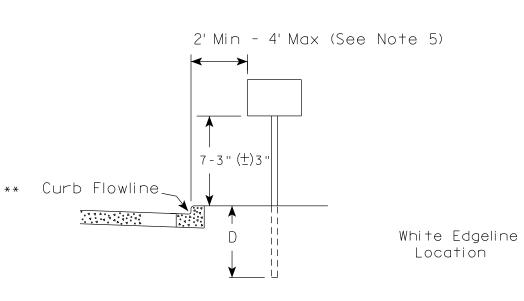
\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

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

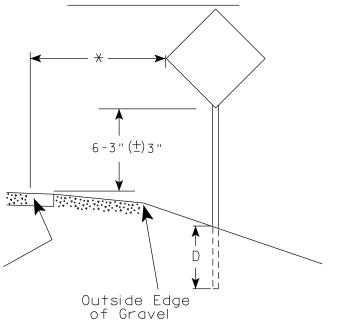
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 50

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





RURAL AREA (See Note 2)



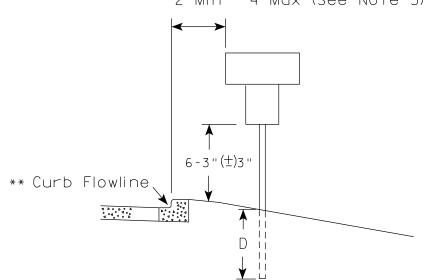
### GENERAL NOTES

- 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'' ( $\frac{+}{-}$ ) 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

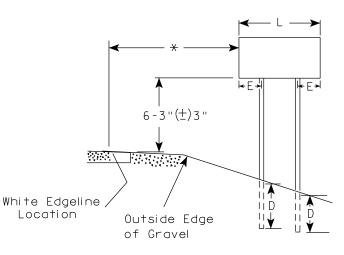
PLOT NAME :

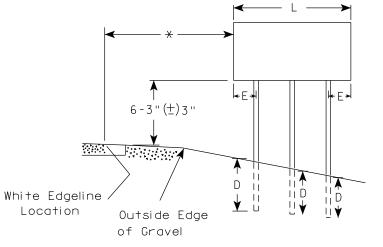
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

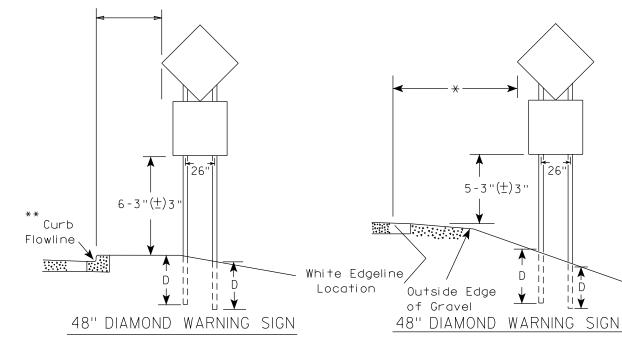
APPROVED

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

CUEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr\_stdplate\A44.dgn

PROJECT NO:

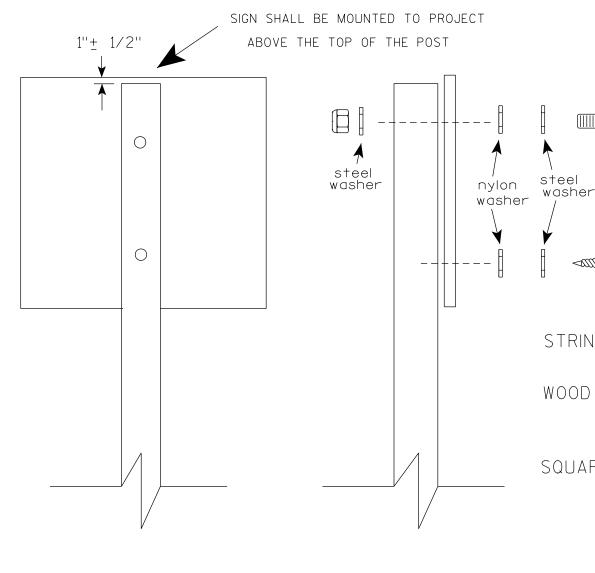
COUNTY:

PLOT DATE : 6-DEC 2023 11:31

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ 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 - 3/32 " (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. X<sup>3</sup>/<sub>8</sub>" I.D. X<sup>1</sup>/<sub>16</sub>" 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 DATE: 10-JUN 2019 4:10

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

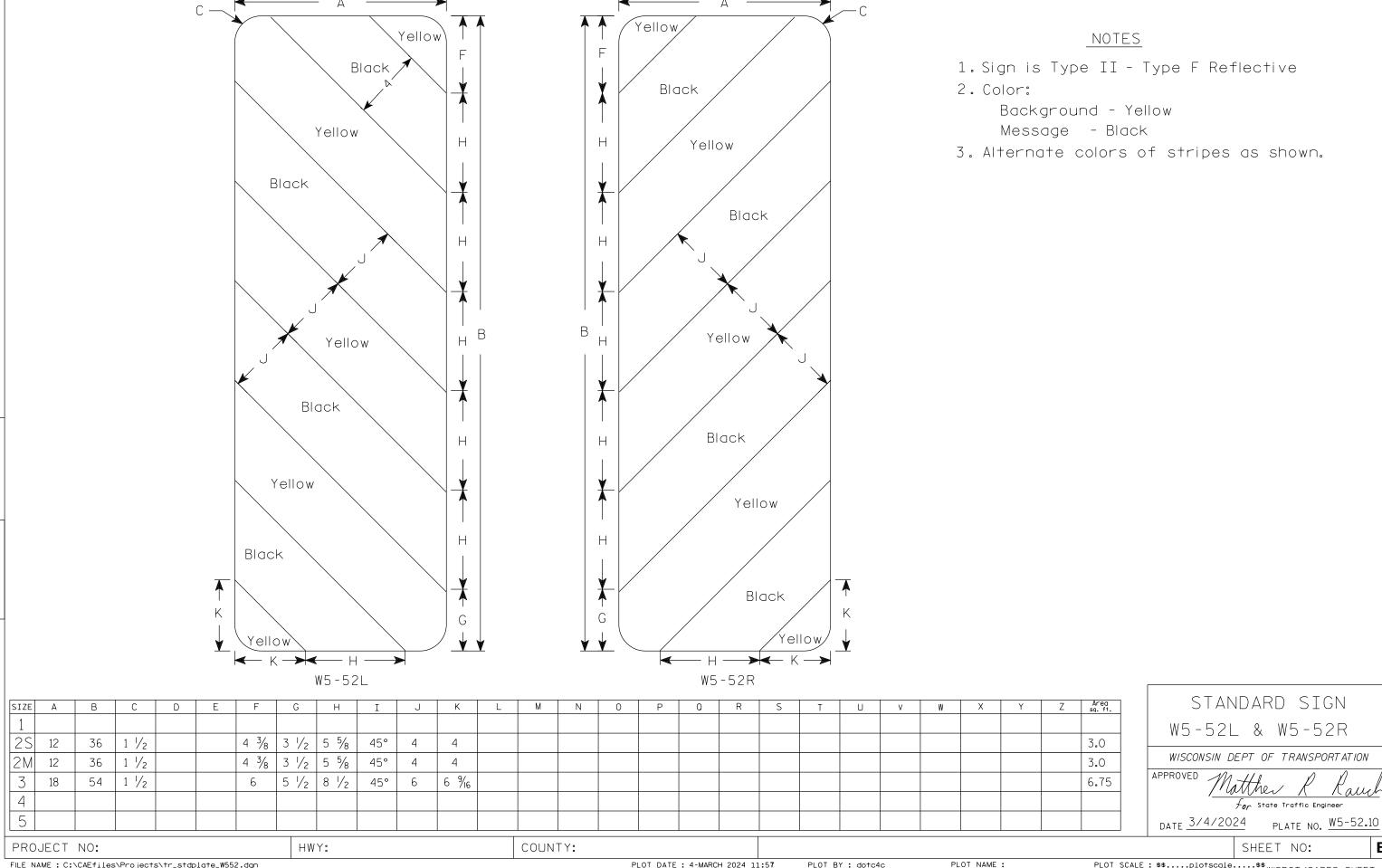
PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

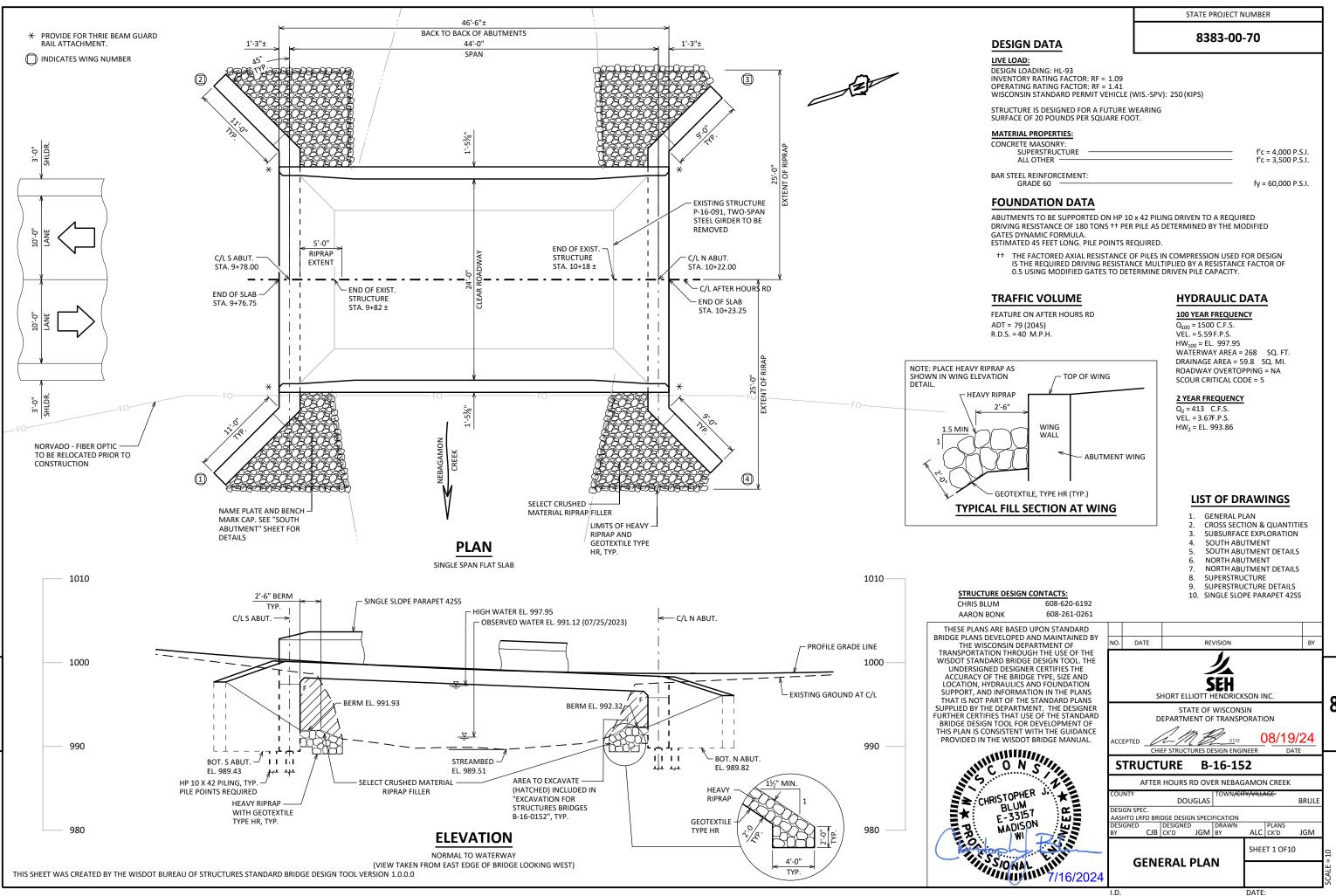


FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\_W552.dgn

PLOT DATE: 4-MARCH 2024 11:57

PLOT BY : dotc4c

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



- BOTTOM OF ABUTMENT

TOP OF BERM

**CROSS SECTION THRU ROADWAY** 

LOOKING UPSTATION (PILING NOT SHOWN FOR CLARITY)

VCL = 130.00

K = 7.13

**PROFILE GRADE LINE** 

TOP OF -**PAVEMENT ELEVATION** SECTION A-A

### ABUTMENT BACKFILL DIAGRAM

- = ABUTMENT BODY LENGTH AT BACKFACE (FT) = AVERAGE ABUTMENT FILL HEIGHT (FT)
- = WING 1 HEIGHT AT TIP (FT)

<u>PLAN</u>

- = 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)
- $= V_{CF}(EF)/27$
- $V_{TON} = V_{CY}(2.0)$

### **TOTAL ESTIMATED QUANTITIES**

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	SOUTH ABUT.	NORTH ABUT.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS P-16-091	EACH				1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-16-0152	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON		272	183	455
502.0100	CONCRETE MASONRY BRIDGES	CY	102	41	30	173
502.3200	PROTECTIVE SURFACE TREATMENT	SY	124	24	17	165
502.3210	PIGMENTED SURFACE SEALER	SY	46			46
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2,180	2,040	4,220
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	23,990	1,870	1,540	27,400
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		5	5	10
550.0500	PILE POINTS	EACH		7	7	14
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		315	315	630
606.0300	RIPRAP HEAVY	CY		30	30	60
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		73	69	142
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		48	42	90
645.0120	GEOTEXTILE TYPE HR	SY		65	65	130
SPV.0195.01	SELECT CRUSHED MATERIAL RIPRAP FILLER	TON		3	3	6
	NON-BID ITEMS					
	FILLER	SIZE				1/2", 3/4"
	NAMEPLATE	EACH	1			1
	BENCHMARK	EACH	1			1

C/L AFTER

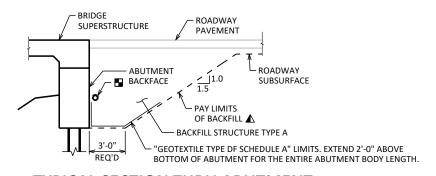
HOURS ROAD

SECTION B-B

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

# PROTECTIVE SURFACE TREATMENT LIMITS **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.

8383-00-70

STATE PROJECT NUMBER

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-16-0152" 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

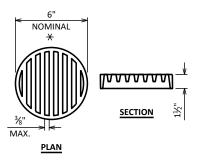
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

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.

### **BENCH MARK**

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
вмз	8+11.52 / 21.27' LT	SPK IN PINE	1023.14'
BM2	10+57.38 / 22.24' LT	SPK IN PINE	1002.49'
BM1	11+31.70 / 21.05' RT	SPK IN POPPLE	1004.83'



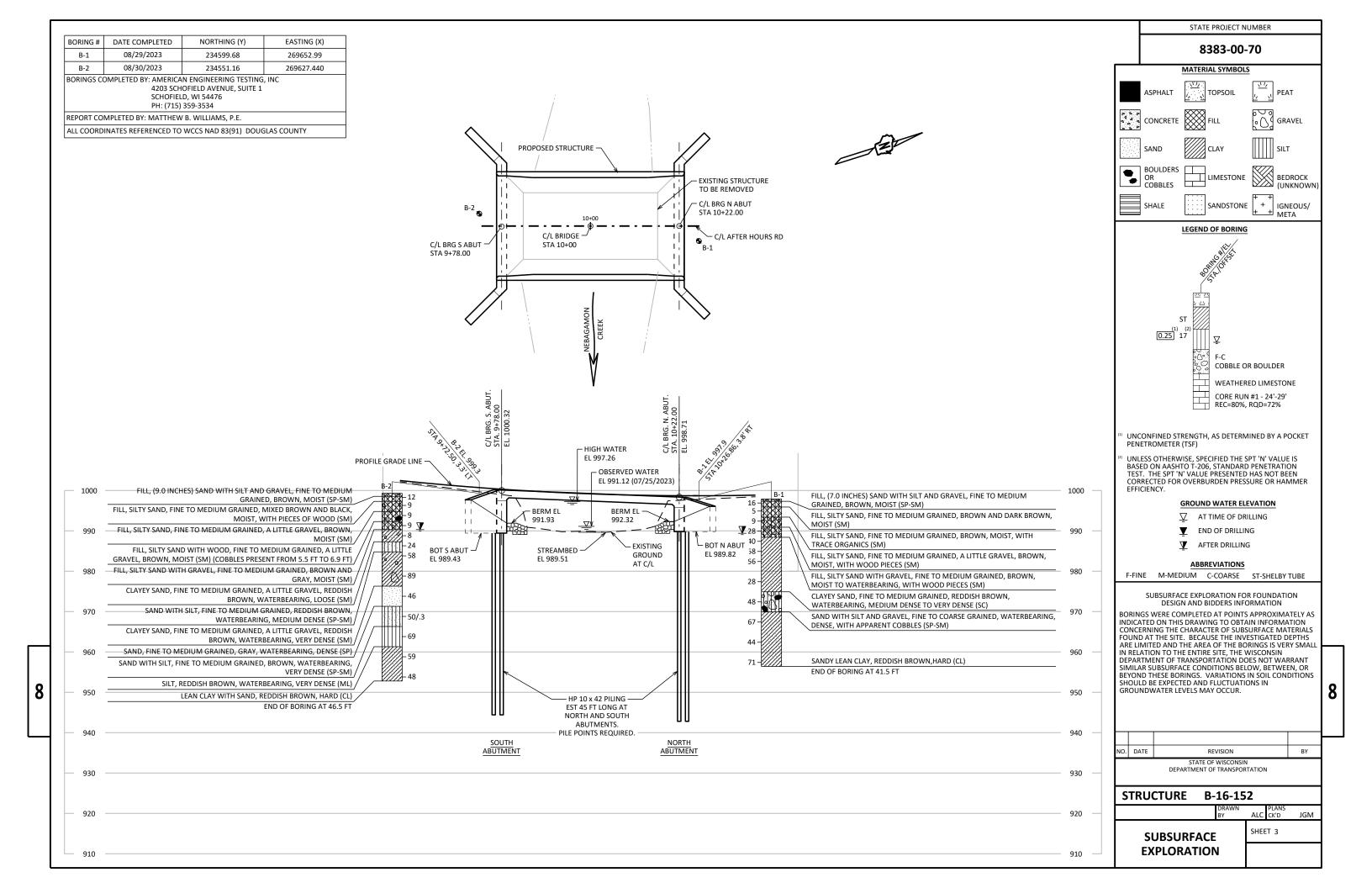
### RODENT SHIELD DETAIL

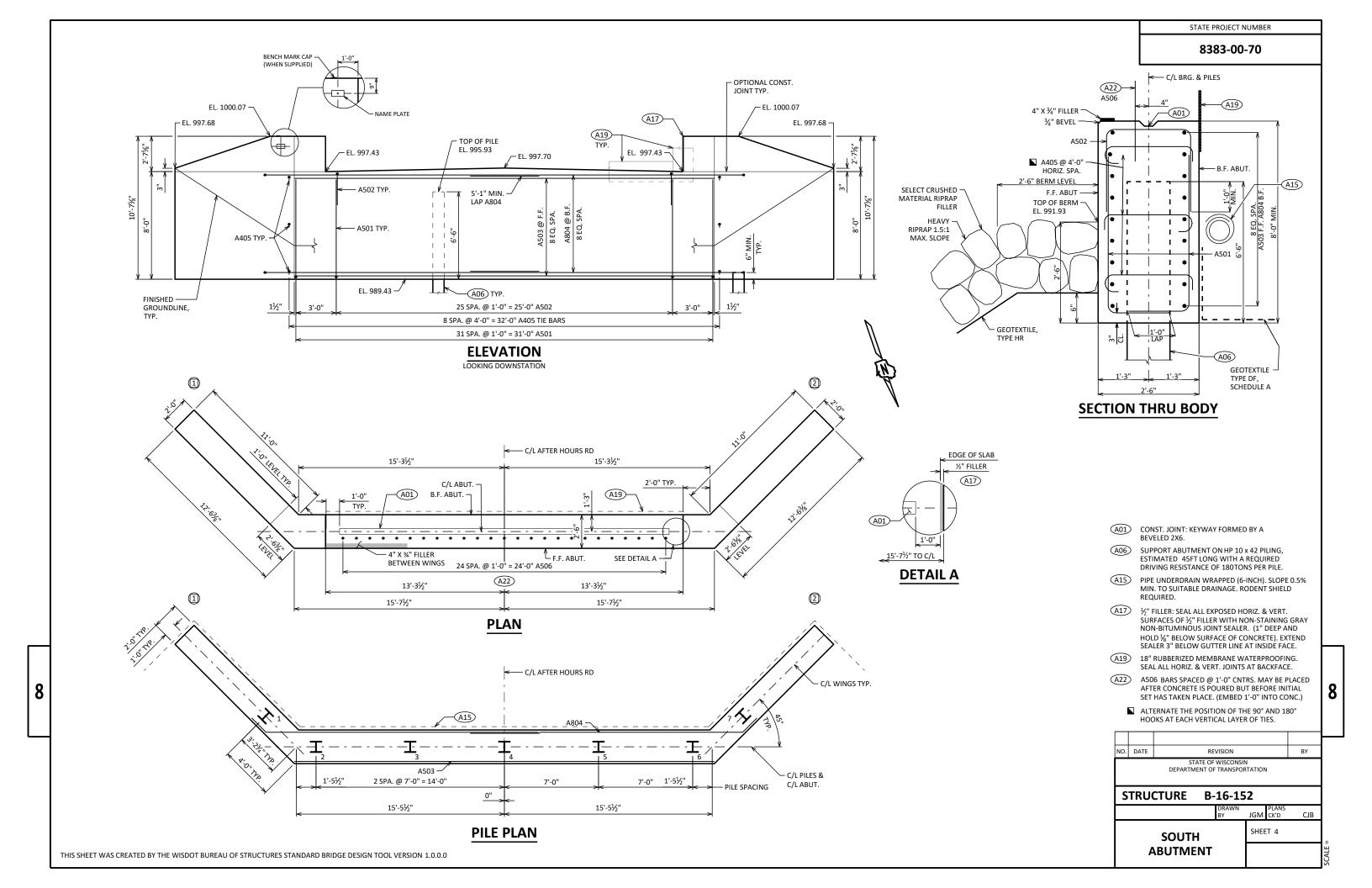
★ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

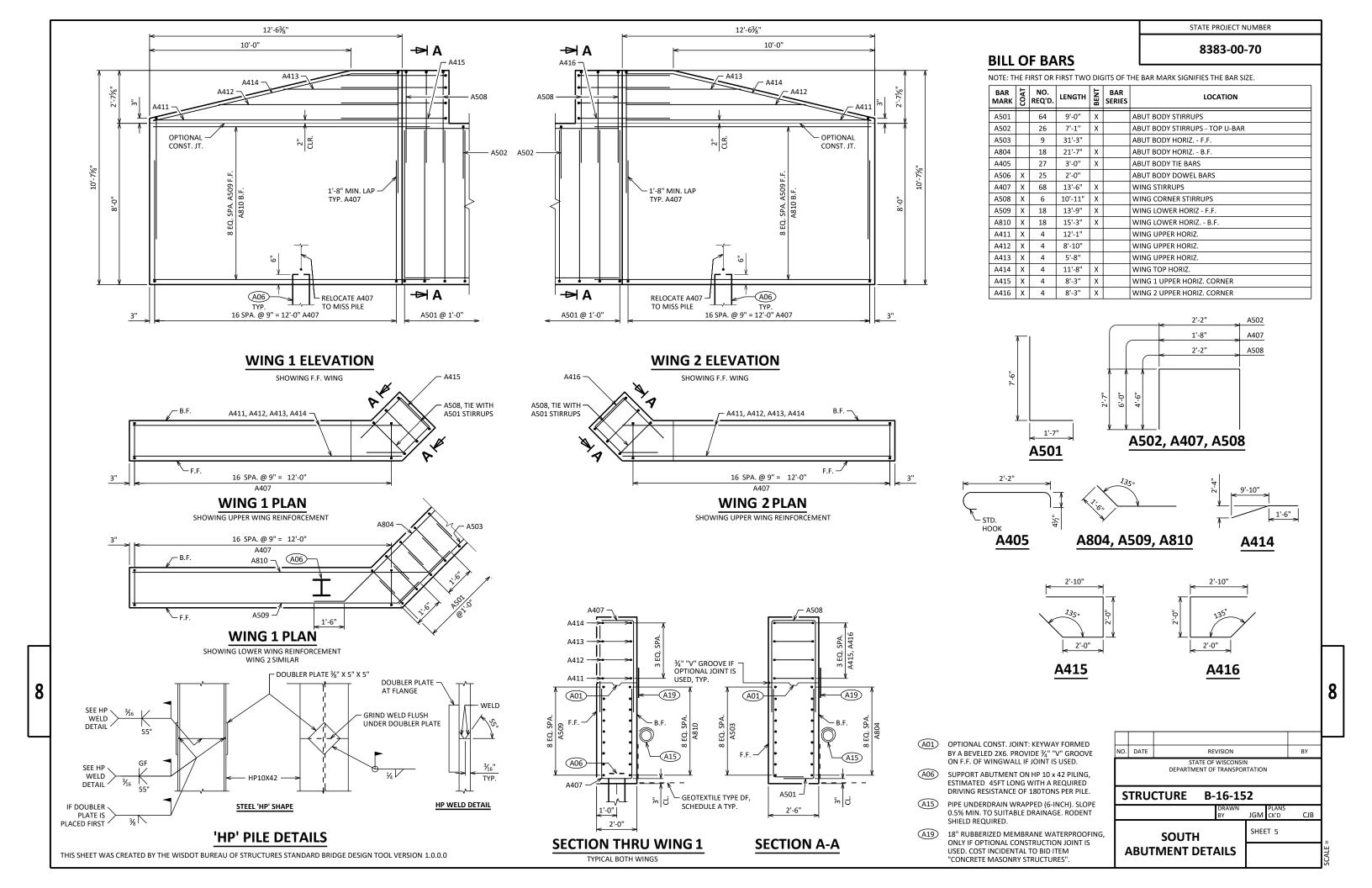
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

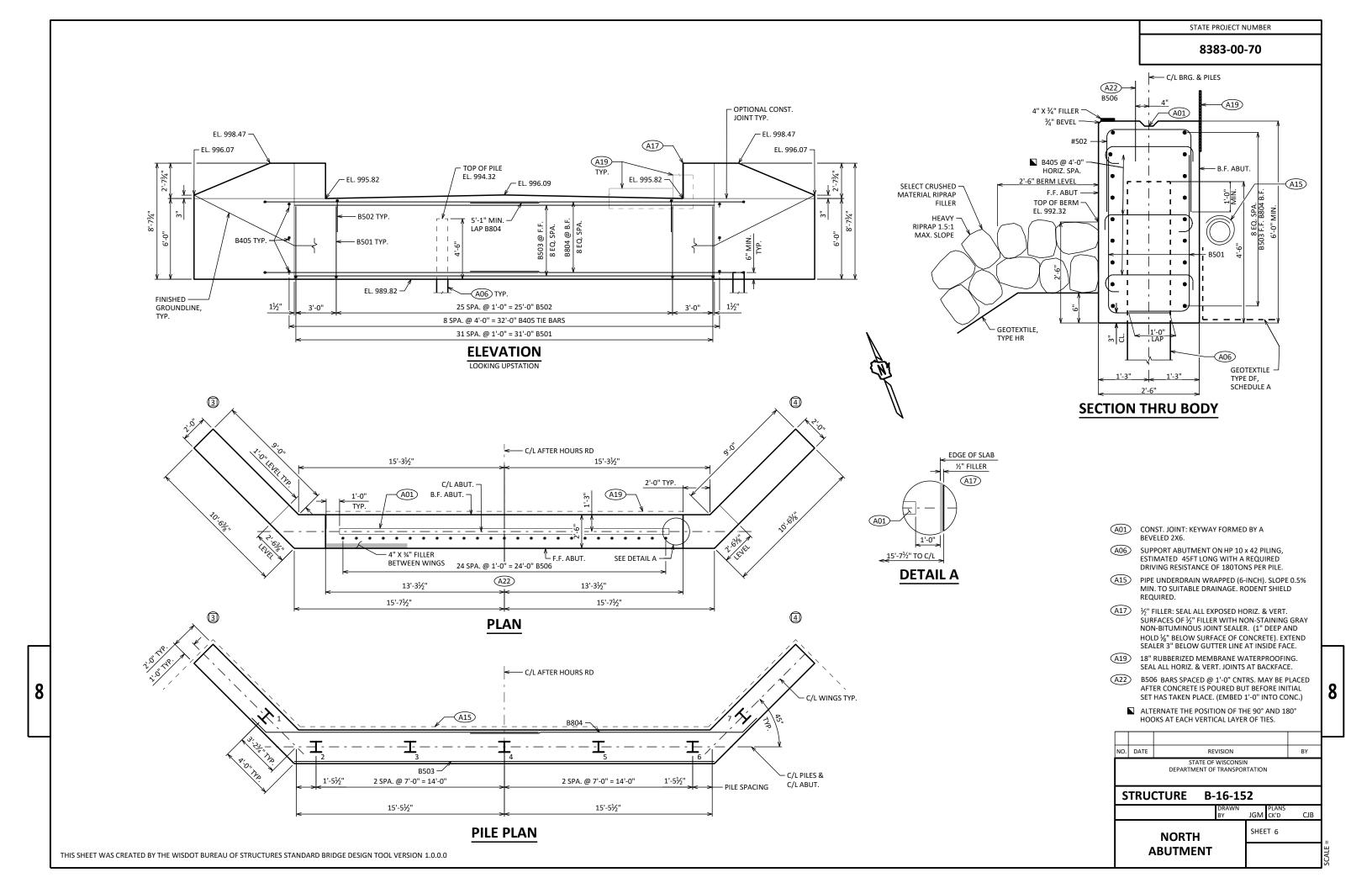
THE RODENT SHIFLD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X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

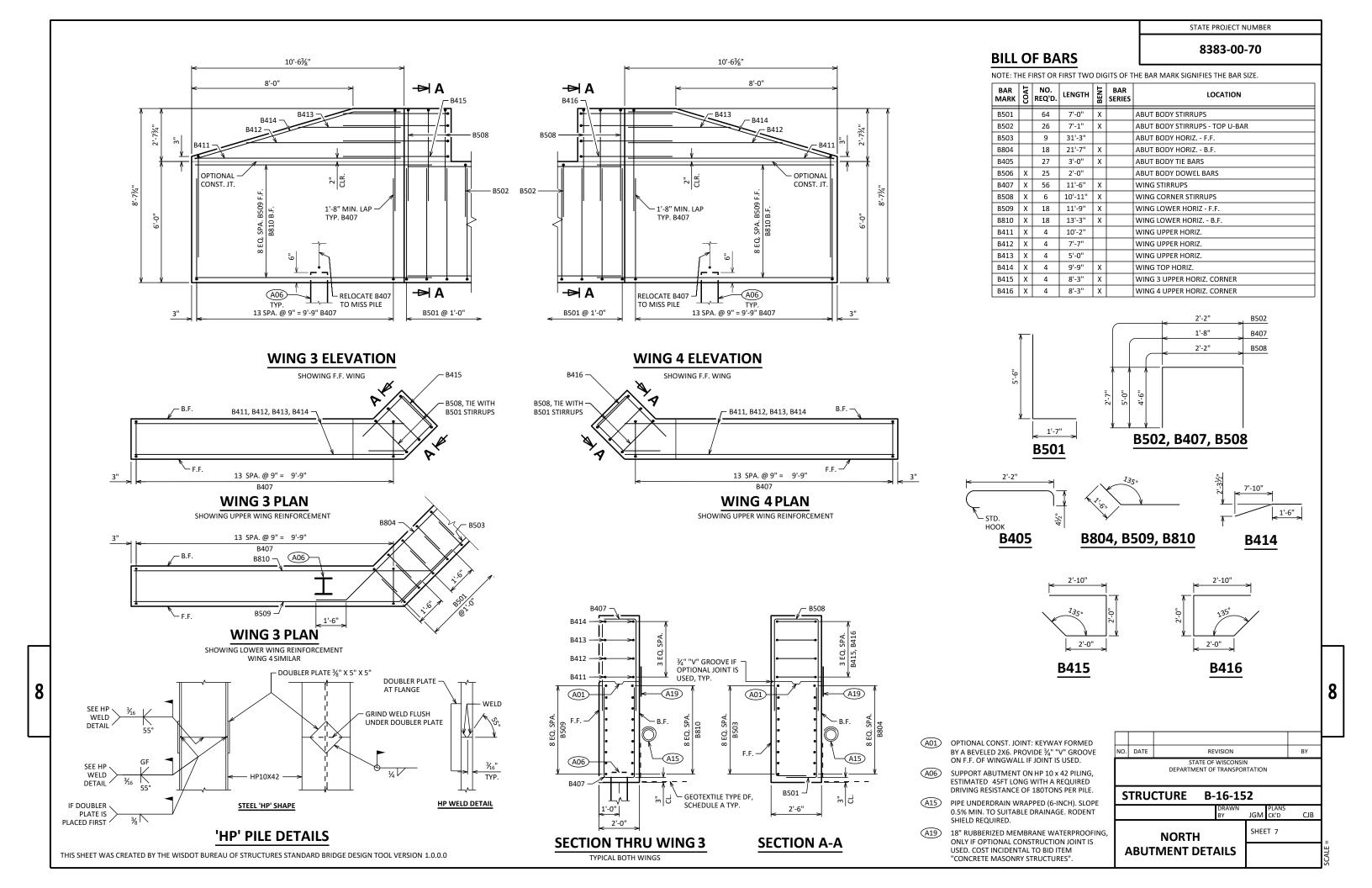
	10. 10 X	1 INCH STAINLESS	31666 3111		I AL JCI	LVVJ.				
NO.	NO. DATE REVISION BY									
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
S	STRUCTURE B-16-152									
			DRAWN BY	ALC	PLANS CK'D	JGM				
	CR	OSS SECTIO	SHEET 2							
	&	QUANTITIE				SCALF =				

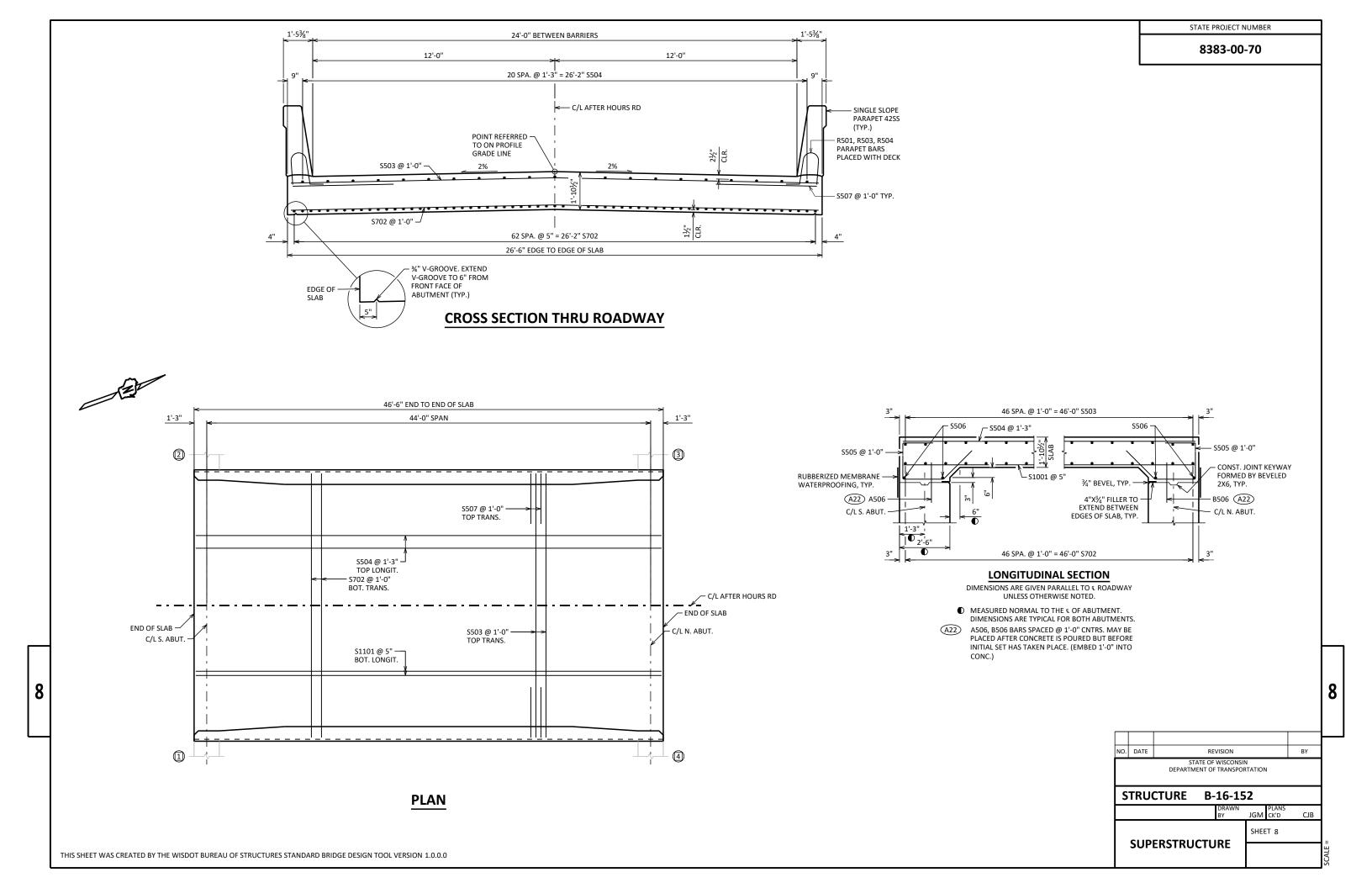












### **CAMBER AND SLAB THICKNESS DIAGRAM**

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

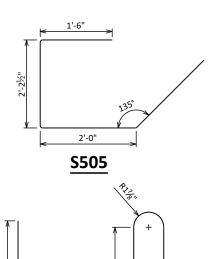
SLAB THICKNESS

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**

LOCATION	C/L BRG. S. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L BRG. N. ABUT.
W. EDGE OF DECK AT FF OF PARAPET	1000.08	999.79	999.54	999.31	999.11	998.93	998.78	998.66	998.57	998.50	998.47
CROWN OR R/L	1000.32	1000.03	999.78	999.55	999.35	999.17	999.02	998.90	998.81	998.74	998.71
E. EDGE OF DECK AT FF OF PARAPET	1000.08	999.79	999.54	999.31	999.11	998.93	998.78	998.66	998.57	998.50	998.47



**S609** 

**S608** 

### **BILL OF BARS**

8383-00-70

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	Х	47	26'-2"			SLAB TOP TRANSVERSE		
S504	Х	21	46'-2"			SLAB TOP LONGITUDINAL		
S505	Х	54	7'-6"	Х		ABUTMENT DIAPHRAGM STIRRUPS		
S506	Х	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"	Х		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.

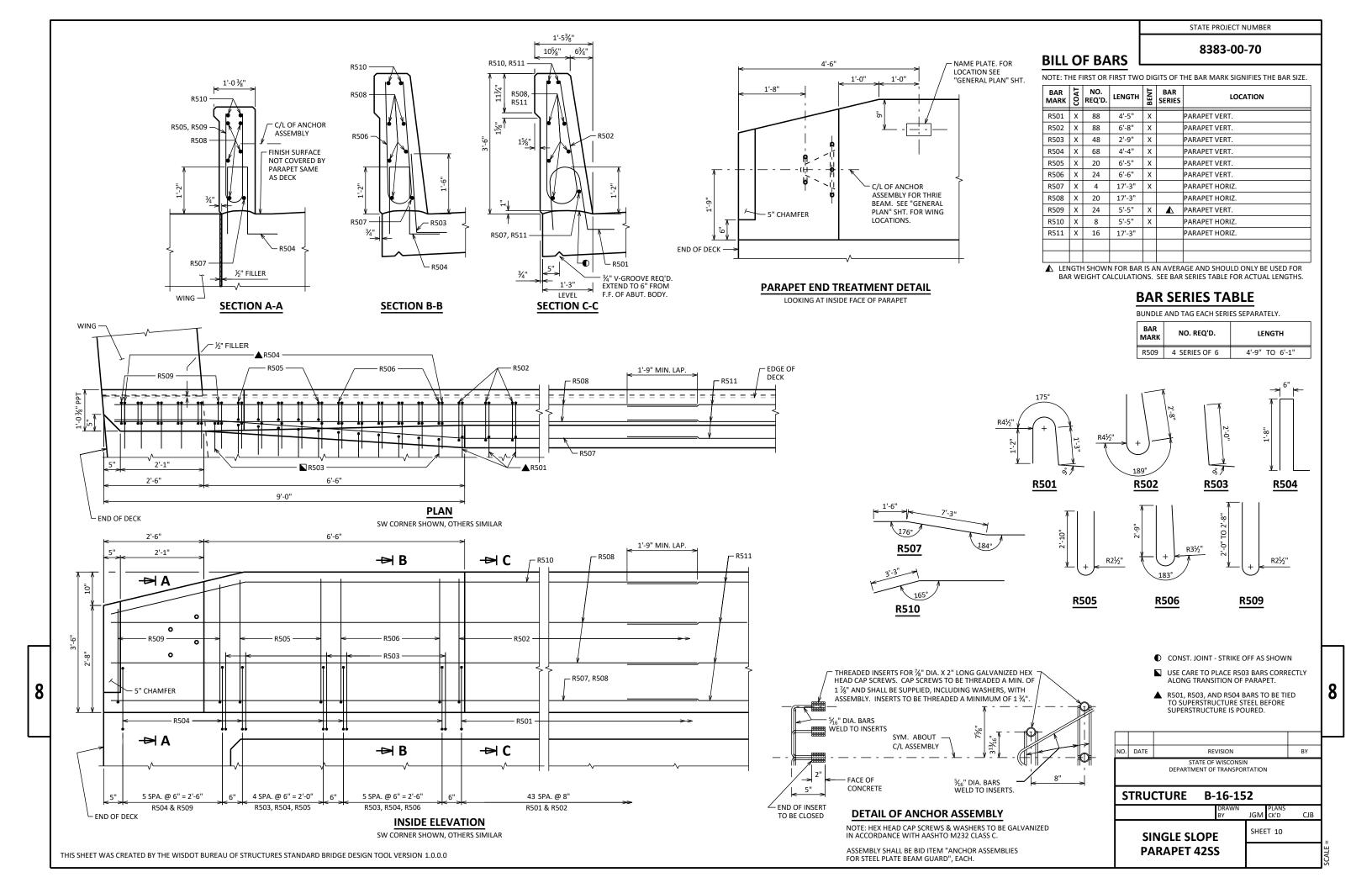
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

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

					1		L				
NO.	DATE		REVISION			BY					
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION										
S	STRUCTURE B-16-152										
			DRAWN BY	JGM	PLANS CK'D	СЈВ					
	SUP	ERSTRUC	SHEE	T 9		l.					
		DETAILS	6				- 3173				

8

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



**BRIDGE B-16-0152 EARTHWORK SUMMARY** 

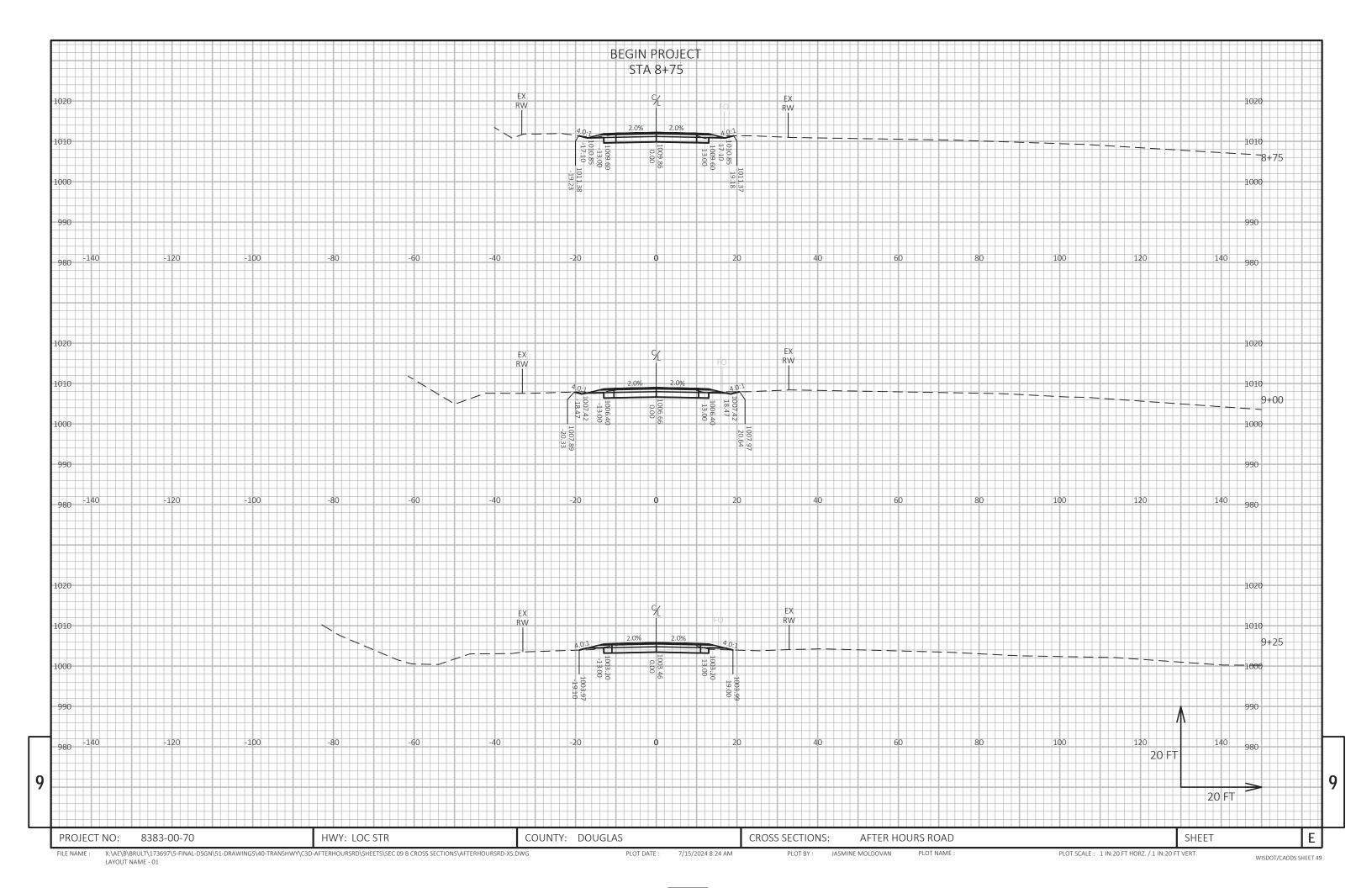
				ARE	A (SF)	INCREMEN <sup>*</sup>	TAL VOL (CY)	CUMULATIN	VE VOL (CY)	
				CUT	FILL	CUT	FILL	CUT	FILL	MASS
STATI	ON	<b>REAL STATION</b>	DISTANCE	CO1	1122	(3)	(1) (2)	1.00	(2)	ORDINATE
8+75	ВК	875.00	0.00	55.80	0.14	0.00	0.00	0.00	0.00	0.00
9+00		900.00	25.00	55.42	0.15	51.49	0.17	51.49	0.17	51.32
9+25		925.00	25.00	51.56	3.20	49.53	2.02	101.02	2.19	98.83
9+50		950.00	25.00	52.36	15.45	48.11	11.22	149.13	13.42	135.71
9+77		977.00	27.00	29.12	43.64	40.74	38.41	189.87	51.82	138.05
STRUCTURE	B-16-0152	2								
10+23	АН	1023.00	0.00	33.14	12.57	0.00	0.00	149.13	13.42	135.71
10+50		1050.00	27.00	116.60	0.00	74.87	8.17	224.00	21.59	202.41
10+75		1075.00	25.00	73.66	0.00	90.08	0.00	314.08	21.59	292.50
11+00		1100.00	25.00	70.70	0.00	68.83	0.00	382.92	21.59	361.33
11+25	ВК	1125.00	25.00	65.30	0.00	65.96	0.00	448.88	21.59	427.29
					TOTALS	490	60			

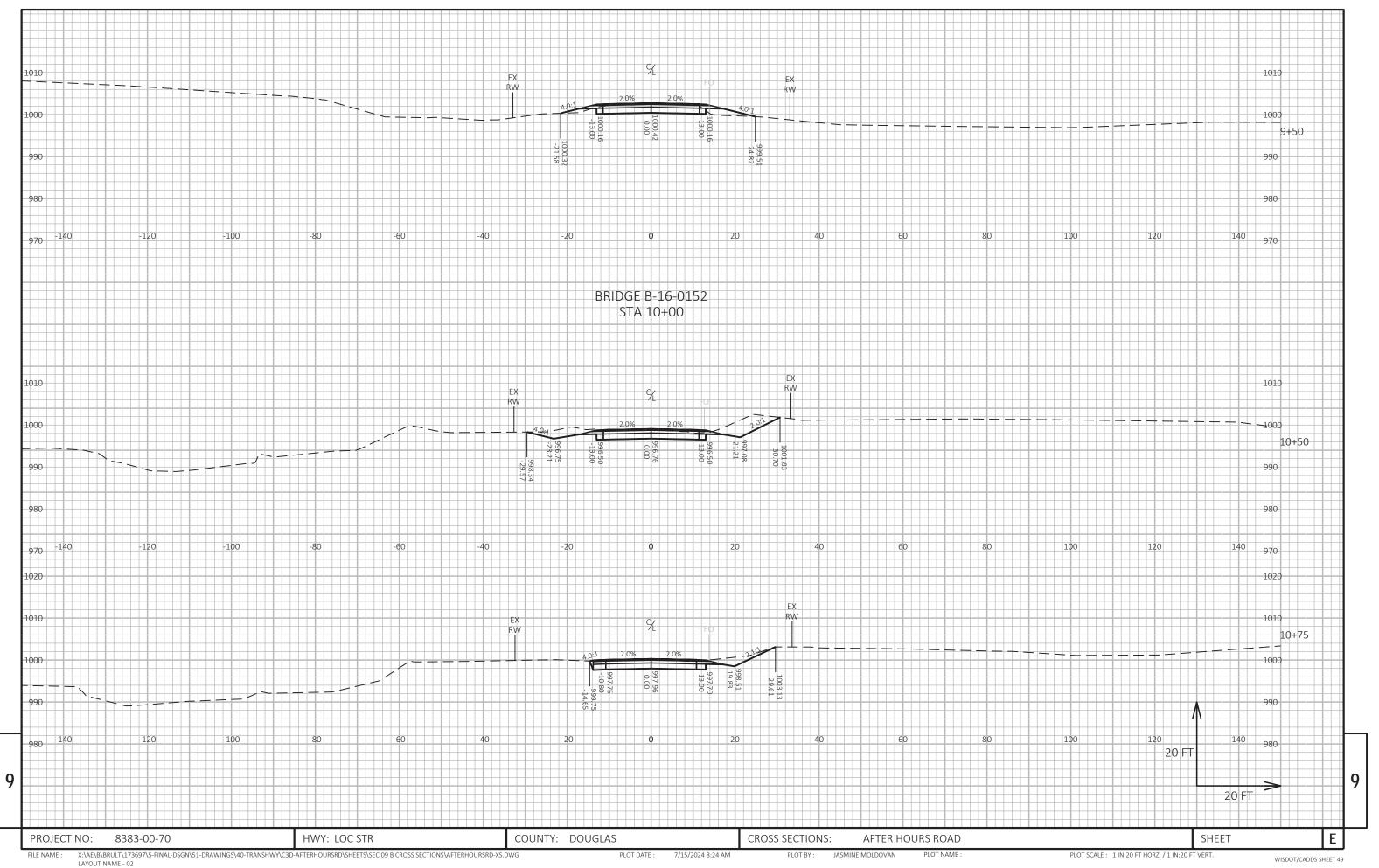
<sup>(1) -</sup> NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY

COUNTY: DOUGLAS SHEET PROJECT NO: 8383-00-70 HWY: LOC STR EARTHWORK SUMMARY PLOT SCALE : N/A

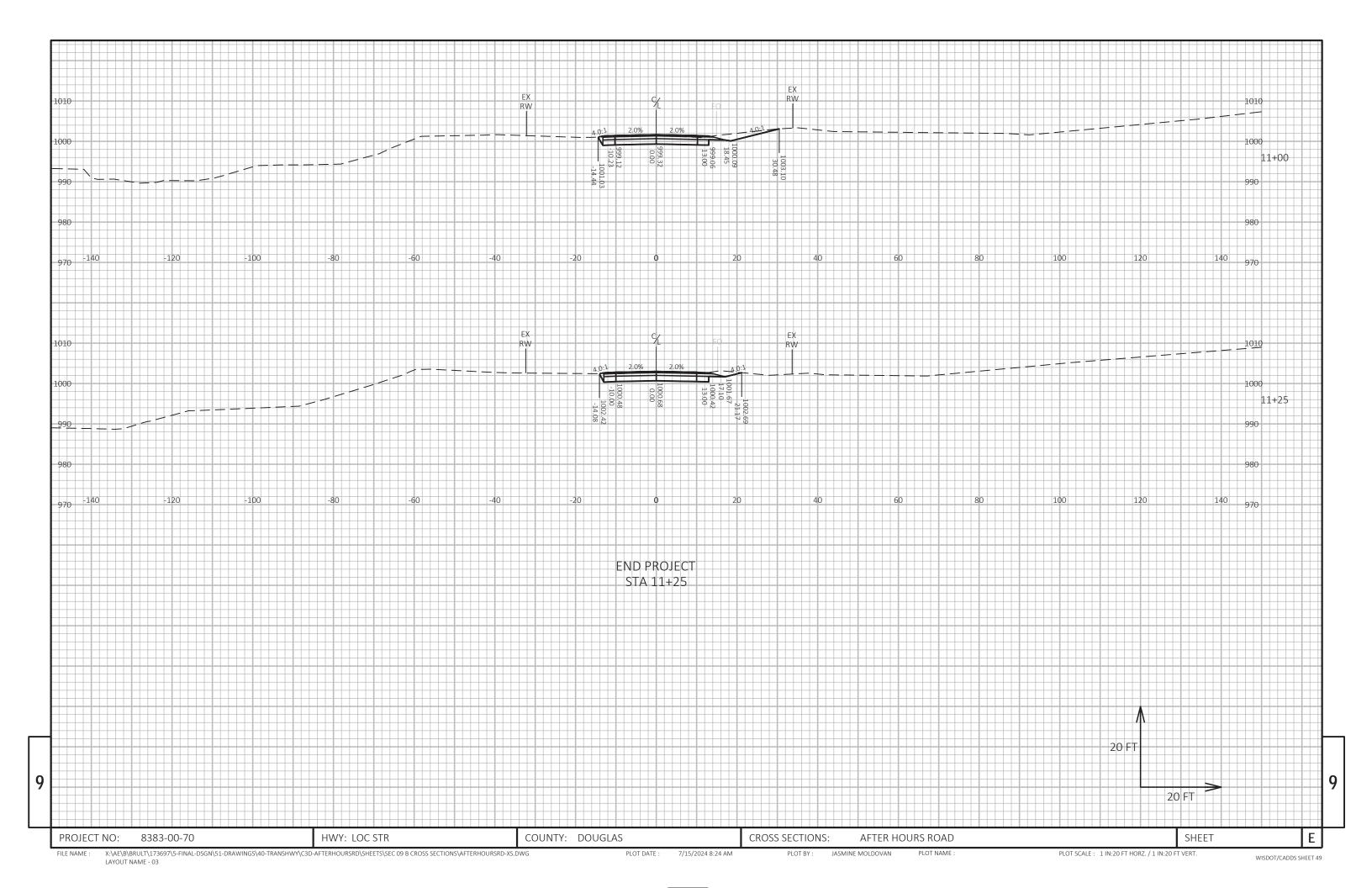
<sup>(2) -</sup> FILL EXPANSION 30%

<sup>(3) -</sup> EXISTING ASPHALTIC PAVEMENT IS INCLUDED IN COMMON EXCAVATION TOTALS





LAYOUT NAME - 02



Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov