Section No.

Section No.

Section No.

Section No.

Section No.

Typical Sections and Details

Estimate of Quantities

Plan and Profile

Miscellaneous Quantities

Standard Detail Drawings

### NOVEMBER 2023 STATE OF WISCONSIN ORDER OF SHEETS

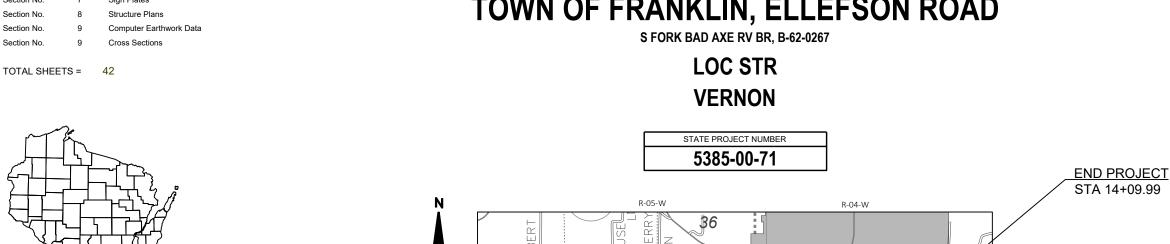
### **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

## TOWN OF FRANKLIN, ELLEFSON ROAD

HOLLOW RD

RIDGE



BELGIUM

DESIGN DESIGNATION 5385-00-71

- PROJECT LOCATION

AADT 2024 = 23 A.A.D.T. 2044 = 25 = 6.2 D.H.V. D.D. = 62/38 = 7.7% DESIGN SPEED = 30 MPH

WOODED OR SHRUB AREA

CONVENTIONAL SYMBO	LS			BELGIUM & RIDGE 11 & C	N L				
PLAN		PROFILE		RD CL					
CORPORATE LIMITS	<u> </u>	GRADE LINE		κ		-{			
PROPERTY LINE		ORIGINAL GROUND	_ ^ _ \	<del> </del>	Z O	SWENSON	I RD		
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	_ <u>ROCK</u>	0	)S(    Z			BEGIN PROJECT	
LIMITED HIGHWAY EASEMENT	L	SPECIAL DITCH	LABEL		: <   /F	<u> </u>		STA 12+74.03	
EXISTING RIGHT OF WAY			.36			HANSON RD i	S BROOK	Y= 139 344.272	
PROPOSED OR NEW R/W LINE		GRADE ELEVATION	95		RIVER	/ - 7	′ \	X= 696 054.776	
SLOPE INTERCEPT		CULVERT (Profile View)	0 🗆		DACH RD ×	(27)	I		
REFERENCE LINE	300'EB'	UTILITIES							
		ELECTRIC	— Е —	mg mg	HORNBY $\stackrel{\leq}{\mathbb{Z}}$ ( $82$	( )	\		
EXISTING CULVERT		FIBER OPTIC	—— FO ——	<u> </u>	> RD	/	Į AIV		
PROPOSED CULVERT (Box or Pipe)		GAS	—— G —— T-1	12-N UMP	iú NO /		SIIIIIŸ/AN T-12-N		
	$\mathcal{M}_{\mathcal{A}}$	SANITARY SEWER	SAN	R	-05-W	R-04-W			
COMBUSTIBLE FLUIDS	-CAUTION-	STORM SEWER	ss		LAYOUT				
	7//~	TELEPHONE	— т —		0 1 MI		HORIZONTAL POSITIONS SHOWN ON TH		
MARSH AREA	(	WATER	—— w ——	SC	ALE		COORDINATE REFERENCE SYSTEM (WI NAD83 ( 2011 ), IN U.S. SURVEY FEET. PO		
MANSHANLA		UTILITY PEDESTAL	Ħ	TOTAL	AL NET LENGTH OF CENTERLINE = 0.0258 MI		COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANC ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCE		
	£	POWER POLE	Ь	.5.1.2			TO NAVD 88 ( 2012 ). GPS DERIVED ELEV		

T-13-N

FAX (608) 588-7954 PALMER E-35695 RICHLAND CENTER. STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY WESTBROOK ASSOCIATED ENGINEERS, INC Surveyor Designer

**VERNON COUNTY** ORIGINAL PLANS PREPARED BY **WESTBROOK** 619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WISCONSIN 53588

ACCEPTED FOR

FEDERAL PROJECT

PROJECT WISC 2024033 CONTRACT

STATE PROJECT

5385-00-71

Ε

FILE NAME: G:\00-PROJECT FILES\2021\21105 ID 5385-00-01 T. OF FRANKLIN, ELLEFSON RD, VERNON COUNTY\0-CAD\SHEETSPLAN\010101\_TI.DWG

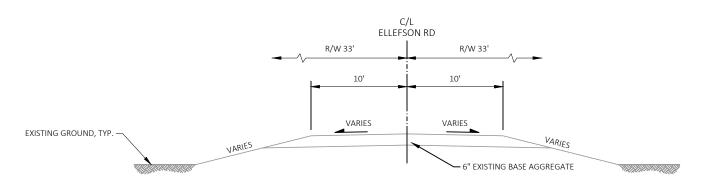
PLOT NAME

MAH

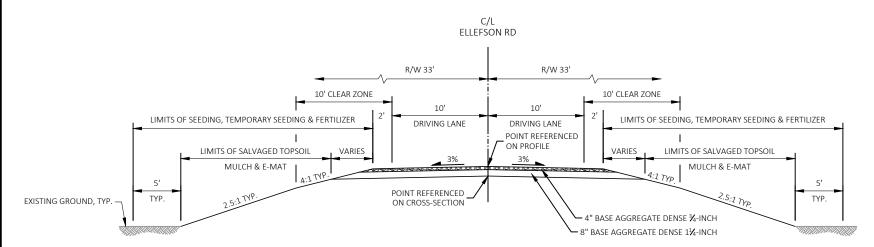
STRUCTURE B-62-0267

STA 13+42.01

TELEPHONE POLE



### **EXISTING TYPICAL SECTION** STA. 12+74.03 - STA. 14+09.99



### PROPOSED TYPICAL SECTION STA. 12+74.03 - STA. 14+09.99

### ORDER OF SECTION 2 SHEETS

GENERAL NOTES & TYPICAL SECTIONS ALIGNMENT DETAILS AND CONTROL POINTS

### **CONTACTS**

### WDNR LIAISON

DNR WEST CENTRAL REGION HEADQUARTERS 3550 MORMON COULEE RD LA CROSSE, WI 54601

ATTN: KAREN KALVELAGE PH: (608) 785-9115 karen.kalvelage@wisconsin.gov

COUNTY: VERNON

VERNON COUNTY HIGHWAY DEPARTMENT 602 N MAIN ST

ATTN: PHIL HEWITT PH: (608) 637-5451 phil.hewit@vernoncounty.org

**GENERAL NOTES & TYPICAL SECTIONS** 

### **RUNOFF COEFFICIENT TABLE**

					IIIDIK	JEOGIC JOIL	GINOOI						
			A			В			С			D	
			RANGE CENT)			RANGE CENT)			RANGE CENT)	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		.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	5		·				
GRAVEL ROADS, SH	OULDE	RS	•			.4060	)		•				

HYDROLOGIC SOIL GROUP

TOTAL PROJECT AREA = 0.21 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.15 ACRES

### **GENERAL NOTES**

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. SILT FENCE AND TURBIDITY BARRIER SHALL BE IN PLACE PRIOR TO CONSTRUCTION.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TEMPORARY SEEDED, MULCHED, AND E-MATTED AS DIRECTED BY THE ENGINEER.

SLOPES STEEPER THAN 3:1 REQUIRE EROSION MAT.

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

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

D.O.T. MONUMENT IS TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR IN THE SAME WING THAT THE PROPOSED NAME PLATE WILL BE PLACED, AS DIRECTED BY THE ENGINEER.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), VERNON COUNTY, HORIZONTAL DATUM NAD83 (2011), ELEVATION DATUM NAVD88 (2012).

ALL SIGNS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND SALVAGED. STACK SIGNS IN A SECURE LOCATION AND NOTIFY AND COORDINATE WITH THE VERNON COUNTY HIGHWAY DEPARTMENT FOR PICKUP.

### **ELECTRIC**

VERNON ELECTRIC COOPERATIVE 110 SAUGSTAD RD WESTBY, WI 54667 (608) 634-7472 COLE CARY ccary@vernonelectric.org



### **CONSULTANT LIAISON**

WESTBROOK ASSOCIATED ENGINEERS, INC. 619 E HOXIE ST SPRING GREEN, WI 53588

ATTN: AARON PALMER, P.E. PH: (608) 588-7866 FAX: (608) 588-7954 apalmer@westbrookeng.com

### COUNTY LIAISON

VIROQUA, WI 54665

7/20/2023 2:35 PM

### STANDARD ABBREVIATIONS

LINEAR FEET AADT ANNUAL AVERAGE DAILY TRAFFIC REQ'D REQUIRED AGGREGATE AAG. L.H.E LEET HAND FORWARD RT. R/W RIGHT BENCH MARK L.S. RIGHT-OF-WAY B.M. LUMP SUM C OR CL CENTERLINE RD. ROAD CRUSHED MAX MAXIMUM RDWY. ROADWAY C.T.H. COUNTY TRUNK HIGHWAY HUNDREDWEIGHT MIN. SOUTH SOUTHEAST MINIMUM S. SE CWT NORTH C.Y. CUBIC YARD NOR NORMAL SHRK SHRINKAGE D.H. DOUBLE HEADED PAV'T PAVEMENT S.R. SIDE ROAD P.C. POINT OF CURVE D.H.V. DESIGN HOURLY VOLUME STD. STANDARD P.I. POINT OF INTERSECTION S.T.H. STATE TRUNK HIGHWAY DIRECTED DIR. P.E. PRIVATE ENTRANCE STA. STATION EAST P.K. P OR PL COR CORNER PARKER-KALON NAIL S.Y. SQUARE YARD PROPERTY LINE POWER POLE TANGENT LENGTH OF CURVE TRANSIT LINE EL. OR ELEV. **ELEVATION** P.P. FIELD ENTRANCE F.E. PROJ. UNCL UNCLASSIFIED EXCAVATION FOOT (FEET) **PROJECT** GAL POINT OF TANGENCY V. V.C. DESIGN SPEED PVMT нw HIGH WATER PAVEMENT VERTICAL CURVE VAR. VARIABLE IN. RADIUS INCHES R.R. SIGHT DISTANCE RAILROAD WEST LENGTH OF CURVE RFINE REINFORCED

PROJECT NO: 5385-00-71 HWY: ELLEFSON RD FILE NAME

G:\00-PROJECT FILES\2021\21105 ID 5385-00-01 T. OF FRANKLIN, ELLEFSON RD, VERNON COUNTY\0-CAD\SHEETSPLAN\020101 GN.DWG LAYOUT NAME - 020101\_gn

PLOT DATE:

PLOT BY:

ERIK MEYER

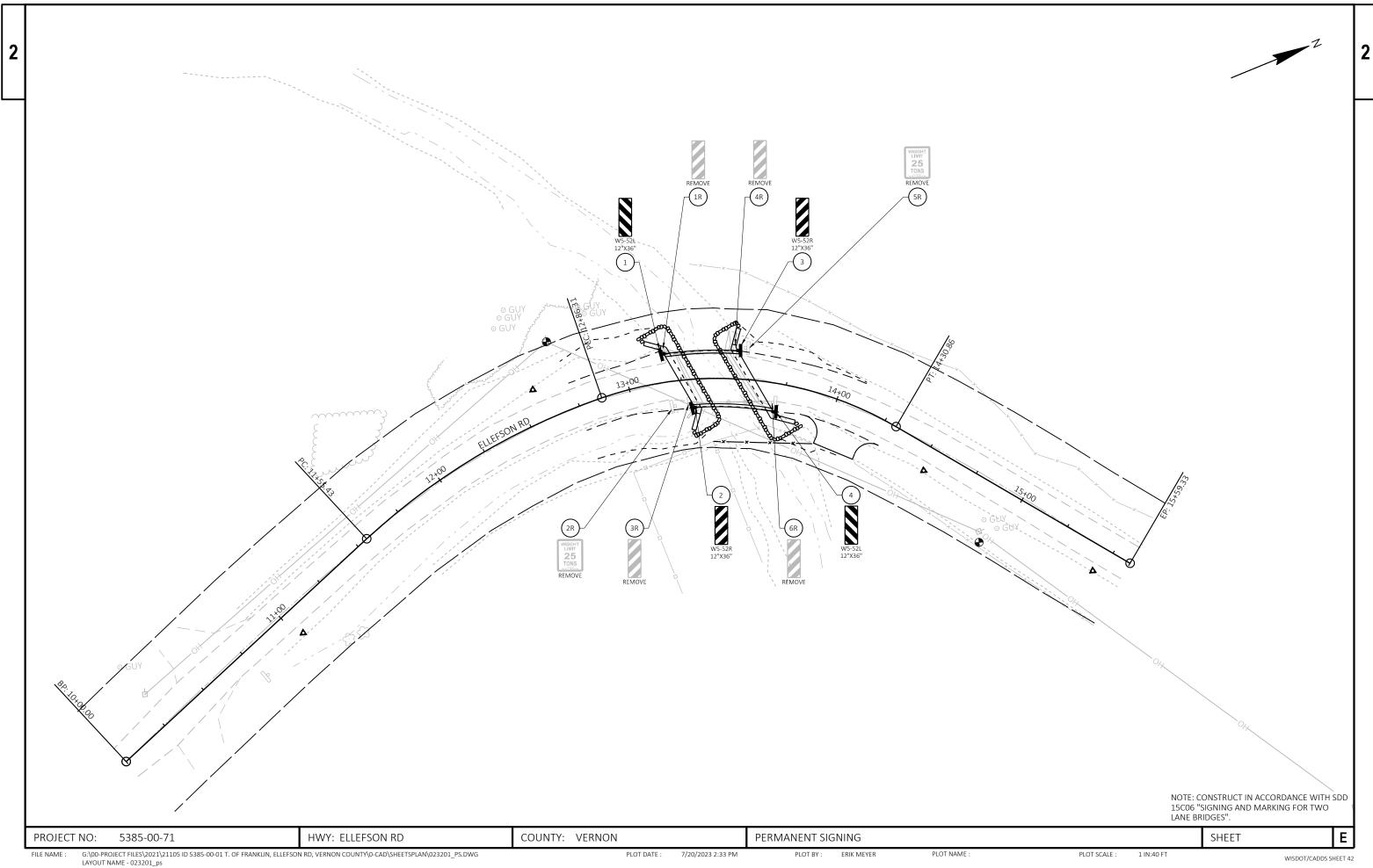
PLOT NAME

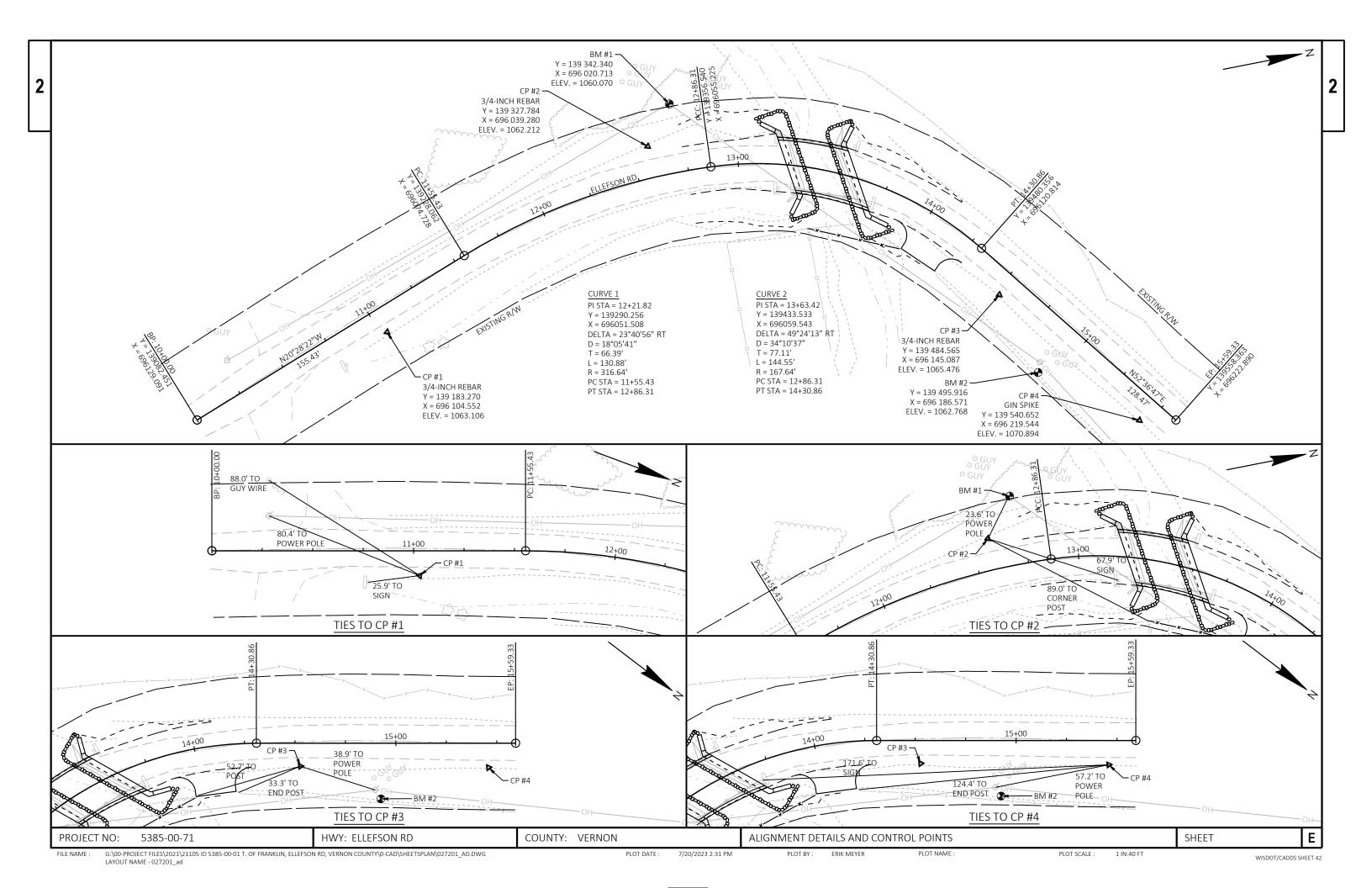
PLOT SCALE:

1 IN:10 FT

SHEET

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					5385-00-71	
Line	Item	Item Description	Unit	Total	Qty	
002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-62-0912	EACH	1.000	1.000	
04	205.0100	Excavation Common	CY	99.000	99.000	
6	206.1001	Excavation for Structures Bridges (structure) 01. B-62-0267	EACH	1.000	1.000	
80	208.0100	Borrow	CY	14.000	14.000	
10	210.1500	Backfill Structure Type A	TON	610.000	610.000	
12	213.0100	Finishing Roadway (project) 01. 5385-00-71	EACH	1.000	1.000	
14	305.0110	Base Aggregate Dense 3/4-Inch	TON	63.000	63.000	
16	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	148.000	148.000	
18	502.0100	Concrete Masonry Bridges	CY	160.000	160.000	
20	502.3200	Protective Surface Treatment	SY	98.000	98.000	
22	502.3210	Pigmented Surface Sealer	SY	36.000	36.000	
24	505.0400	Bar Steel Reinforcement HS Structures	LB	5,030.000	5,030.000	
:6	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	18,950.000	18,950.000	
28	506.0105	Structural Steel Carbon	LB	546.000	546.000	
30	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000	
32	550.0020	Pre-Boring Rock or Consolidated Materials	LF	190.000	190.000	
34	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	280.000	280.000	
36	606.0300	Riprap Heavy	CY	65.000	65.000	
38	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	155.000	155.000	
40	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5385-00-71	EACH	1.000	1.000	
12	619.1000	Mobilization	EACH	1.000	1.000	
14	624.0100	Water	MGAL	2.000	2.000	
6	625.0500	Salvaged Topsoil	SY	185.000	185.000	
18	627.0200	Mulching	SY	210.000	210.000	
50	628.1504	Silt Fence	LF	290.000	290.000	
52	628.1520	Silt Fence Maintenance	LF	468.000	468.000	
54	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
56	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
58	628.2008	Erosion Mat Urban Class I Type B	SY	80.000	80.000	
60	628.6005	Turbidity Barriers	SY	116.000	116.000	
32	629.0210	Fertilizer Type B	CWT	0.300	0.300	
4	630.0130	Seeding Mixture No. 30	LB	10.000	10.000	
6	630.0200	Seeding Temporary	LB	15.000	15.000	
8	630.0500	Seed Water	MGAL	7.000	7.000	
70	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
72	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
74	638.2602	Removing Signs Type II	EACH	6.000	6.000	
76	638.3000	Removing Small Sign Supports	EACH	6.000	6.000	
<b>'</b> 8	642.5001	Field Office Type B	EACH	1.000	1.000	
30	643.0420	Traffic Control Barricades Type III	DAY	1,679.000	1,679.000	
2	643.0705	Traffic Control Warning Lights Type A	DAY	3,358.000	3,358.000	
1	643.0900	Traffic Control Signs	DAY	1,314.000	1,314.000	
3	643.5000	Traffic Control	EACH	1.000	1.000	
3	645.0111	Geotextile Type DF Schedule A	SY	68.000	68.000	
0	645.0120	Geotextile Type HR	SY	156.000	156.000	
2	650.4500	Construction Staking Subgrade	LF	100.000	100.000	
94	650.5000	Construction Staking Base	LF	100.000	100.000	
96	650.6501	Construction Staking Structure Layout (structure) 01. B-62-0267	EACH	1.000	1.000	
98	650.9911	Construction Staking Supplemental Control (project) 01. 5385-00-71	EACH	1.000	1.000	

### 09/12/2023 07:48:43

Page	2	

Page	2
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Line	Item	Item Description	Unit	Total	Qty	
0100	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000	
0102	715.0502	Incentive Strength Concrete Structures	DOL	960.000	960.000	
0104	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000	
0106	ASP 1TOG	On-the- Joh Training Graduate at \$5,00/HR	HRS	175 000	175 000	

0108

SPV.0090 Special 01. Salvage and Reinstall Fence

**Estimate Of Quantities** 

50.000

LF

5385-00-71

50.000

NOTE: ALL ITEMS CATEGORY 0010 UNLESS NOTED OTHERWISE

### **EARTHWORK SUMMARY**

STATION -	- STATION		COMMON EXCAVATION (1) (ITEM # 205.0100)  CUT (2)		corporate average arrives	UNEXPANDED FILL	EXPANDED FILL (5) FACTOR 1.25	MASS ORDINATE +/- (6)	WASTE	BORROW (ITEM # 208.0100)
12+74	- 13+24	SOUTH APPROACH	57	0	57	62	78	-21	0	14
13+60	- 14+10	NORTH APPROACH	42	0	42	28	35	7	7	0
		TOTALS	99	0	99	90	113	-14		14

- 1) COMMON EXCAVATION IS THE CUT. ITEM #205.0100.
- 2) SALVAGED/UNUSABLE MATERIAL IS INCLUDED IN CUT.
- 3) SALVAGED/UNUSABLE MATERIAL INCLUDES ASPHATLIC PAVEMENT.
- 4) AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE MATERIAL
- 5) EXPANDED FILL FACTOR = 1.25: EXPANDED FILL = (UNEXPANDED FILL)\*1.25
- 6) THE MASS ORDINATE + OR CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL IN THE DIVISION.

STATION	-	STATION	BASE AGGREGA	305.0110 3/4-INCH (TON)	305.0120 11/4-INCH (TON)	624.0100 WATER (MGAL)	STATION	- STATION		628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	MOBILI	EXATIONS EROSION 628.1905  MOBILIZATIONS	628.1910 MOBILIZATIONS EMERGENCY
12+74 13+60	-	13+24 14+10 14+07	MAINLINE MAINLINE FIELD ENTRANCE	32 31	71 67 10	1.0 1.0	12+72	- 13+28 - 13+50	Company of Section Control	76 71	152 142	LOCATION	EROSION CONTROL (EACH)	
		14107	TOTALS	63	148	2	13+33 13+71	13+70 14+14	MAINLINE, LT MAINLINE, RT UNDISTRIBUTED	49 38 56	98 76 	ID 5385-00-7: TOTALS	L 3	2
									TOTALS	290	468	TOTALS	3	2

### FINISHING ITEMS

						628.2008				
				625.0500		EROSION MAT	629.0210	630.0130	630.0200	630.0500
				SALVAGED	627.0200	URBAN CLASS I	FERTILIZER	SEEDING	SEEDING	SEED
				TOPSOIL	MULCHING	TYPE B	TYPE B	MIX NO. 30	TEMPORARY	WATER
STATION	-	STATION	LOCATION	(SY)	(SY)	(SY)	(CWT)	(LB)	(LB)	(MGAL)
12+73	-	13+18	MAINLINE, LT	44	43	-	0.06	2	3	1.5
12+74	-	13+31	MAINLINE, RT	67	24	48	0.07	2	3	1.9
13+50		14+10	MAINLINE, LT	11	65		0.05	2	2	1.3
13+71		14+10	MAINLINE, RT	27	35	18	0.04	1	2	0.9
			UNDISTRIBUTED	36	43	14	0.08	3	5	1.4
			TOTALS	185	210	80	0.30	10	15	7.0

PROJECT NO: 5385-00-71 HWY: ELLEFSON RD COUNTY: VERNON MISCELLANEOUS QUANTITIES SHEET

TURBIDITY BARRIER

LOCATION

SOUTH APPROACH NORTH APPROACH

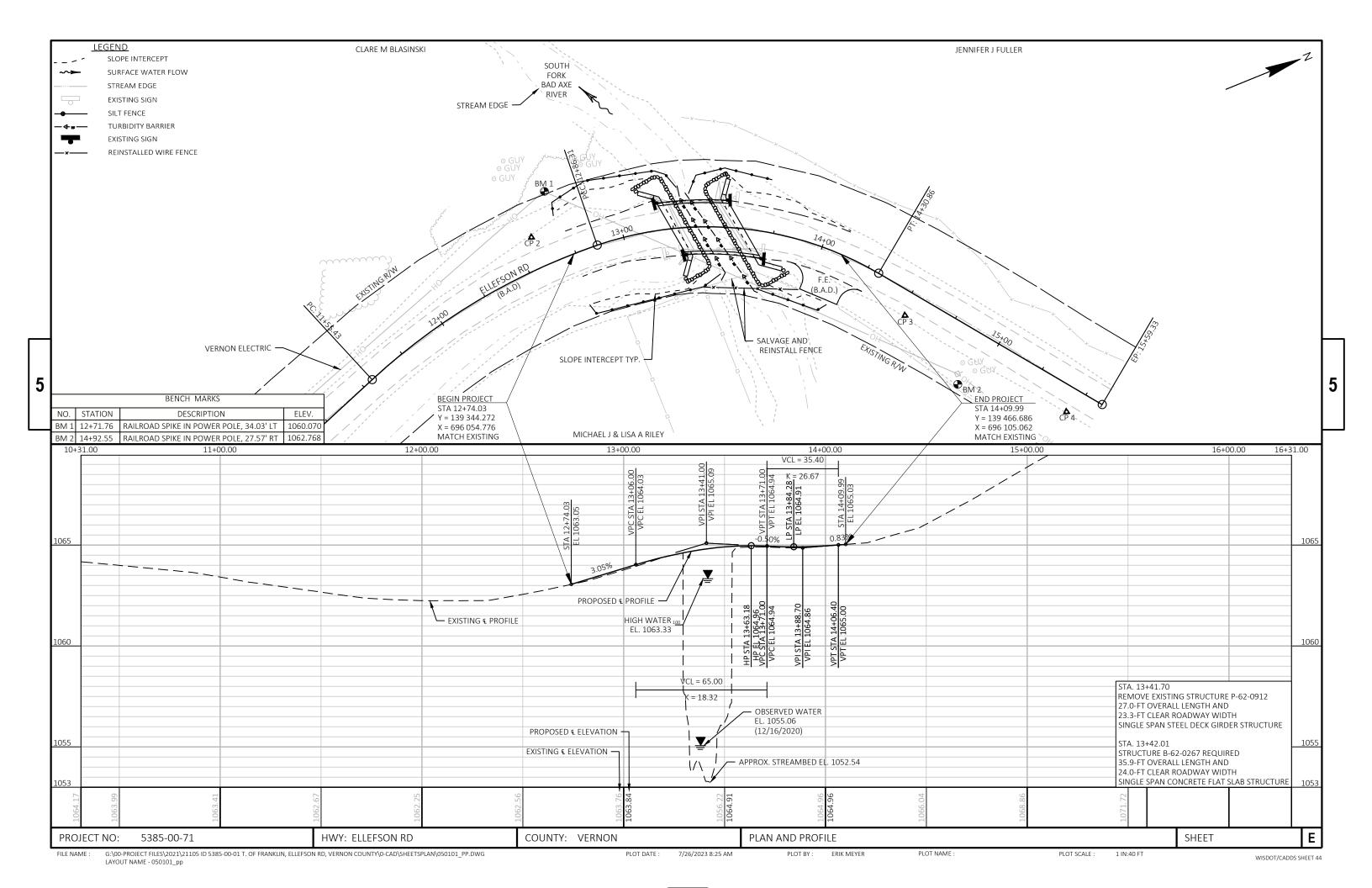
TOTALS

628.6005 TURBIDITY BARRIERS

> (SY) 54

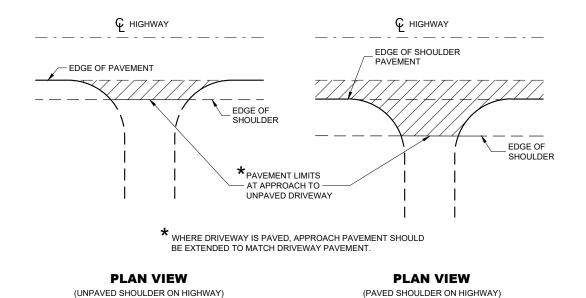
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IL ITEMS CATEGO NLESS NOTED OT	ORY 0010 THERWISE					STATION  13+18 13+20 13+21 13+29 13+31 13+49 13+51 13+54 13+70 13+71	LOCATION  LT  RT  RT  RT  LT  LT  LT  LT  RT  RT	SIGN NUMBER 1 1R 2R 3R 2 4R 3 5R 6R 4	SIGN CODE  W5-52L  W5-52L  R12-1  W5-52R  W5-52R  W5-52R  W5-52L  W5-52L  TOTALS	634.0612 POSTS WOOD 4X6-INCH X 12-FT	637.2230 SIGNS TYPE II REFLECTIVE TYPE F (SF)  33 3 3 3 12						
									TRAFFI	3.0420 C CONTROL	C CONTROL 643.07 TRAFFIC CO	05 NTROL	643.0900				
										RICADES YPE III	WARNING I		TRAFFIC CONTE	ROL TRAFFIC CONTROL			
						LOCA	TION	DURATION	(NO.)	(DAY)	(NO.) (D	AY)	(NO.) (DAY	(EACH)			
						NORTH A		73	9	657		314	7 511				
						SOUTH A		73 73	9 5	657 365		314	7 511 4 292				
						PRO					- 7			1			
								TOTALS	23	1679	46 3:	358	18 1314	1 1			
						RAMP CLO	SURES AN	D ADVANCED	ORDANCE WIT WIDTH REST R APPROVAL.	RICTION".	ARRICADES AND	SIGNS FOR M	IAINLINE, DETOI	UR, ON RAMP, OFF			
				CON	STRUCTIO	ON STAKIN	<u>G</u>										
						650.650	01	650.99	11 6	50.9920					SALVAGE AND REINSTALL FENCE		
						STRUCTUREL				SLOPE					CDV 0000 O	r	
		STATION - STATION	LOCATION	SUBGRADE (LF)	BASE (LF)	01. B-62-0 (EACH)		01. 5385-0 (EACH		STAKES (LF)					SPV.0090.03 STATION - STATION LOCATION (LF)		
		CATALOGUE AND STREET A		21080	000000					Pro16000					13+40 - 13+95 MAINLINE 50	_	
		12+74 - 13+24 13+60 - 14+10			50	_		_		50 50					TOTALS 50	_	
			PROJECT			1		1							107763		
		<b>★</b> CATEGORY 0020	TOTALS	100	100	1	*	1		100							
		PONTEGORI 0020	10407		J. D.D.		Т	COLINITY	\/EDN:02:			MICCE	LANGUE	LANITITIC		CLIEFT	ı.
PROJECT NO:	: 5385-00-71		HVVY:	ELLEFSON	י אט			COUNTY:	VERNON			IVIISCEL	LANEOUS QU	JAN IIIIE2		SHEET	E

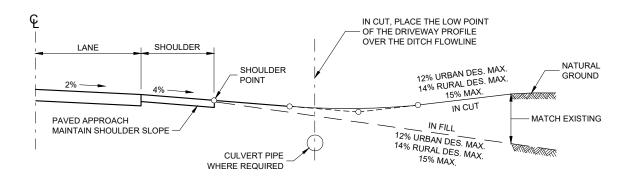


### Standard Detail Drawing List

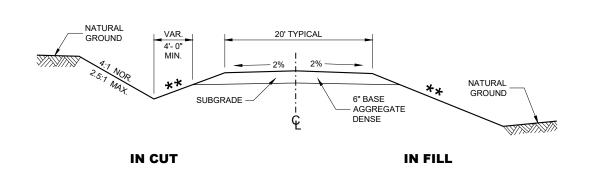
08D21-01	DRI VEWAYS WI THOUT CURB & GUTTER
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



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

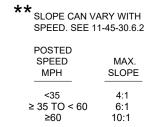


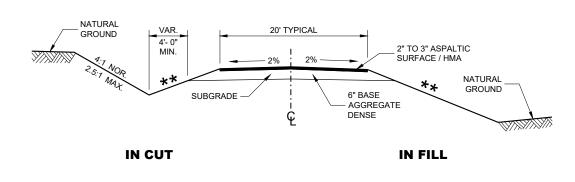
### **TYPICAL DRIVEWAY PROFILES**



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

**AGGREGATE SURFACE** 





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

# **DRIVEWAYS WITHOUT**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**CURB AND GUTTER** 

APPROVED

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

6

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08D21

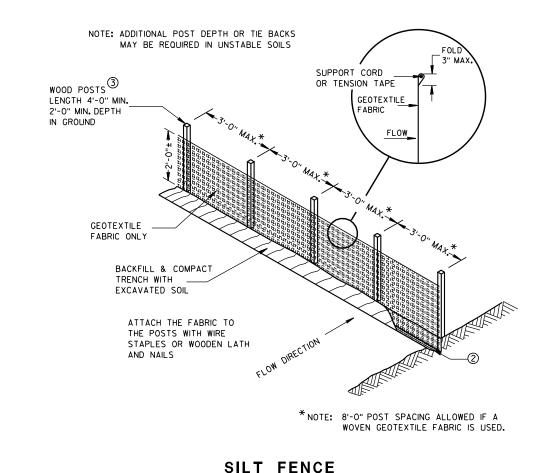
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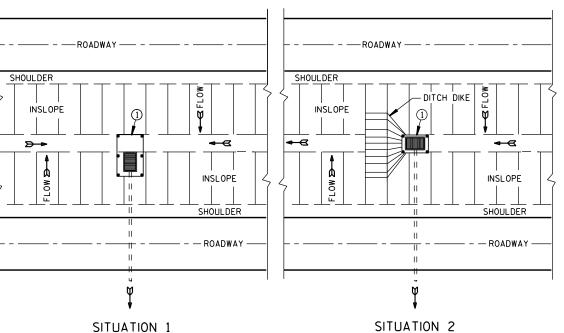
SDD 08D21

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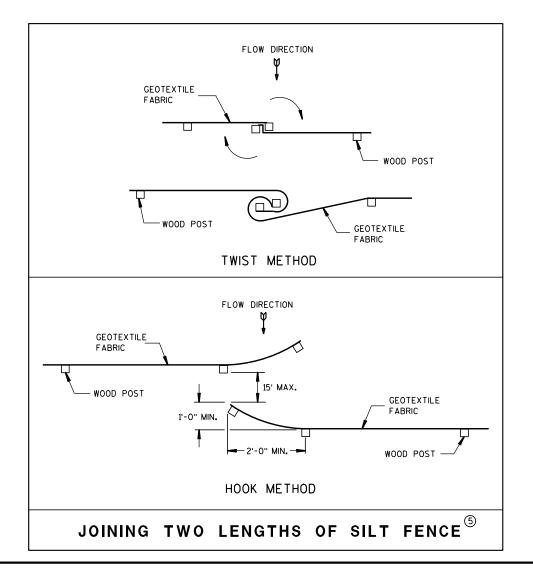
December 2017 DATE

### TYPICAL APPLICATION OF SILT FENCE





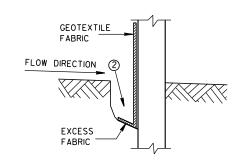
### PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



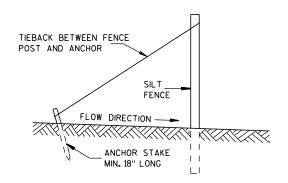
### **GENERAL NOTES**

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

- ① 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

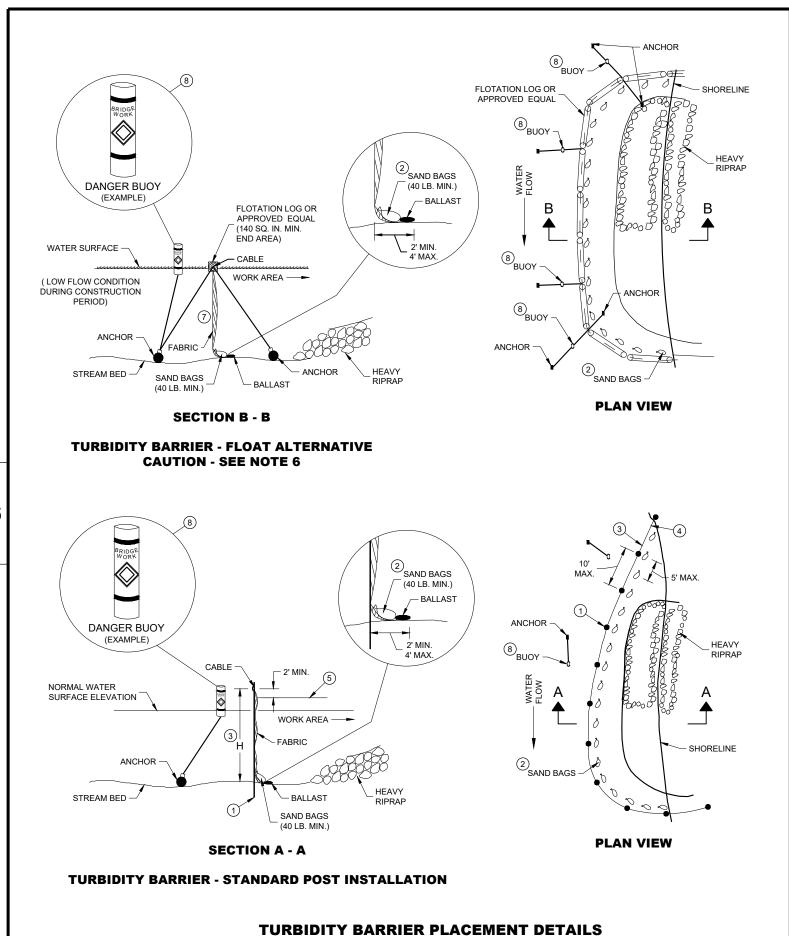


SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

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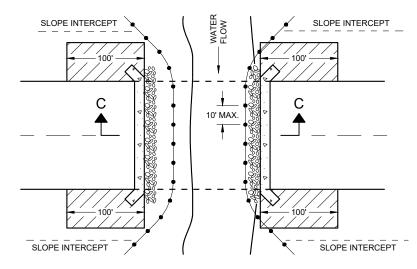


### **GENERAL NOTES**

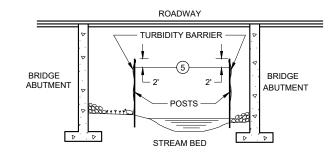
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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** 

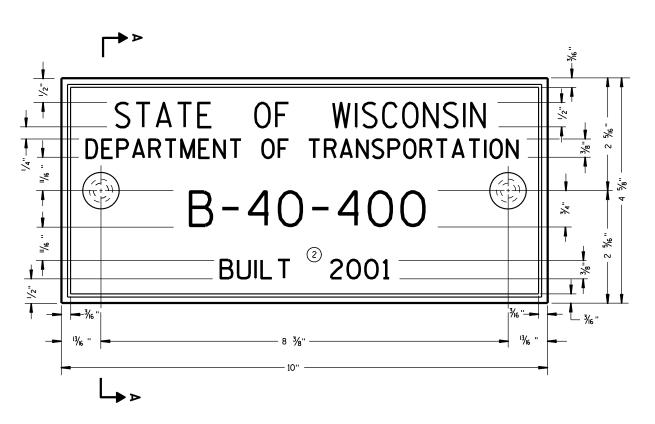
### **TURBIDITY BARRIER**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

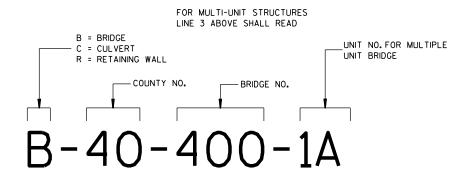
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### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



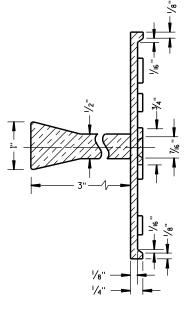
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

### **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.

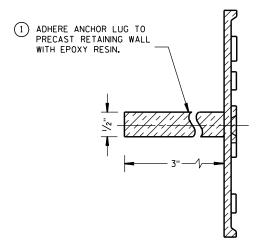
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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)

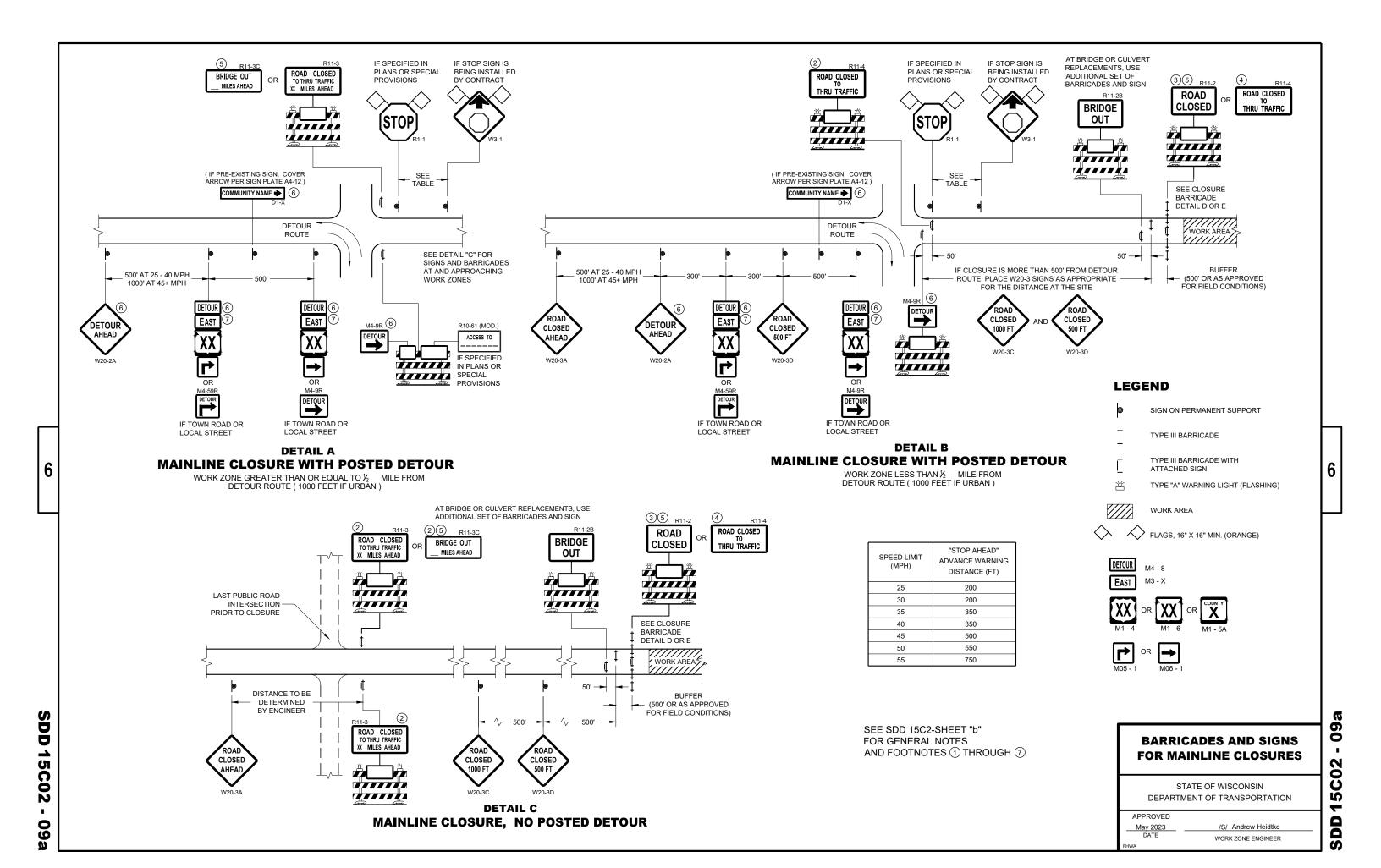
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

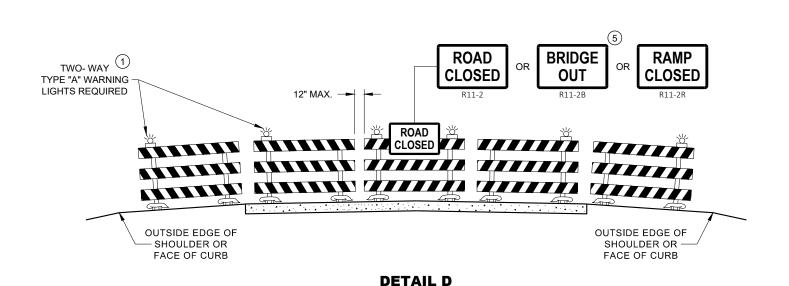
3-10

APPROVED

3/26/IO /S/ SCOT BECKET

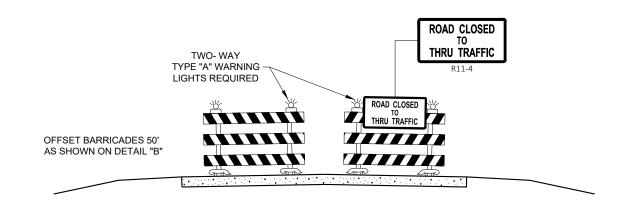
CHIEF STRUCTURAL DEVELOPMENT ENGINEER





**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"

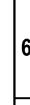
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS 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

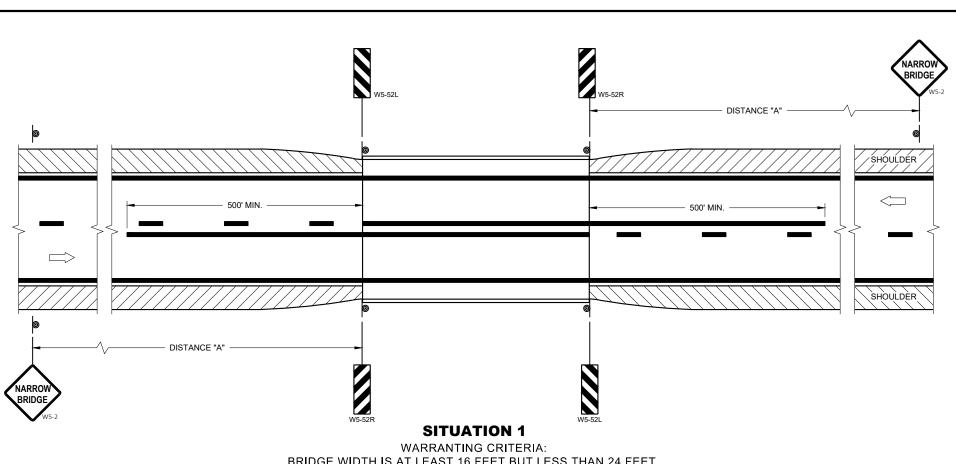
**APPROVED** May 2023 DATE WORK ZONE ENGINEER

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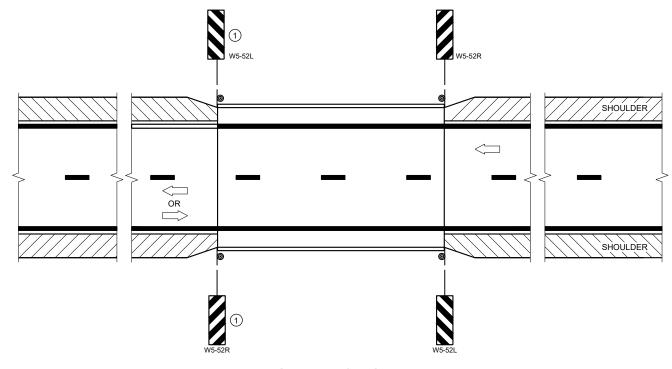


# **-90** 5

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



### **SITUATION 2**

WARRANTING CRITERIA:

15C06-12

- 1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
- 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**

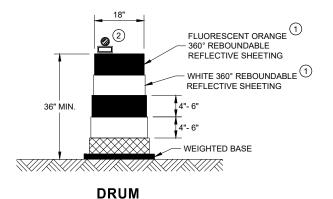
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2023	/S/ Jeannie Silver
DATE	STATE SIGNING AND MARKING
	ENGINEER

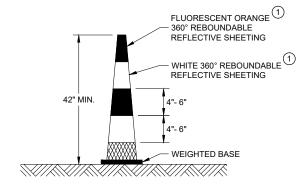
# **SDD 15C11**

# **GENERAL NOTES**

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

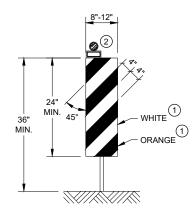


BALLAST WIDTHS RANGE FROM 24"-36"



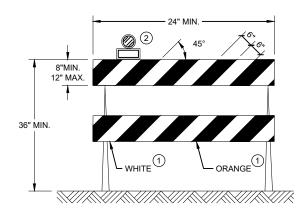
### **42" CONE**

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



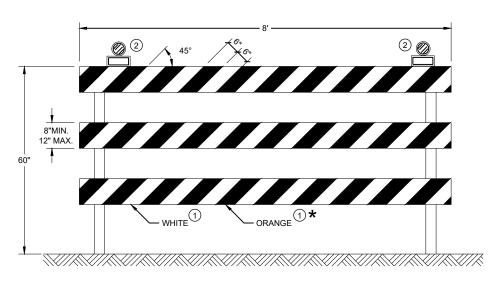
### **VERTICAL PANEL**

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



### **TYPE II BARRICADE**

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



### **TYPE III BARRICADE**

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

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

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

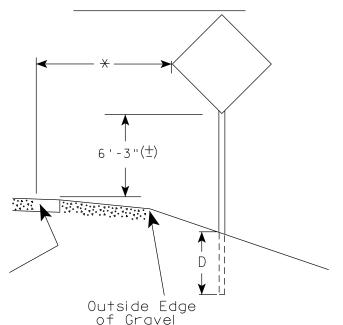
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

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

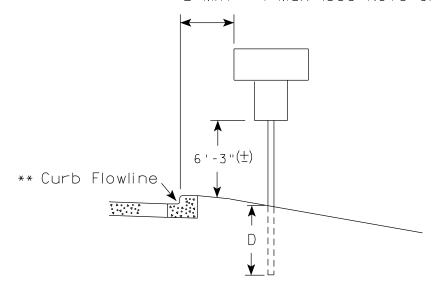
2' Min - 4' Max (See Note 6)

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White Edgeline Location



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



White Edgeline Location

geline

Outside Edge
of Gravel

\*\* 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

HWY:

\* 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.

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" ( $\pm$ ). 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. For expressways and freeways, mounting height is 7'- 3"  $(\pm)$  or 6'-3"  $(\pm)$  depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ( $\frac{+}{2}$ ).
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directd by the Engineer.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr\_stdplate\A43.dgn

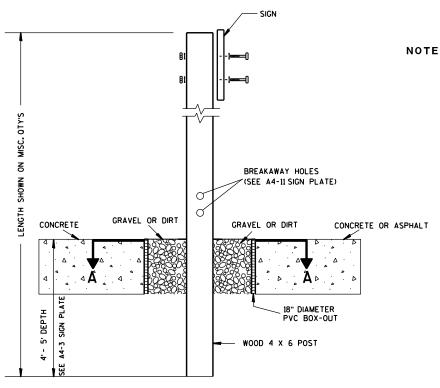
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

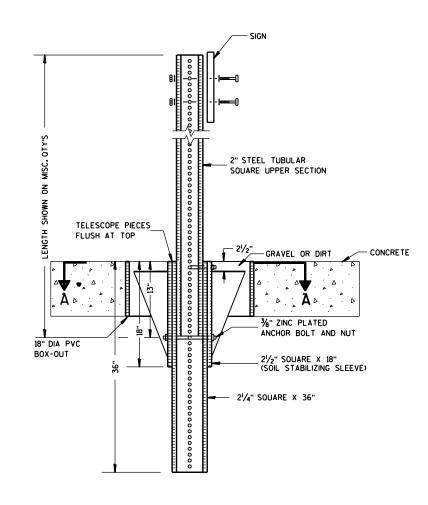
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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.



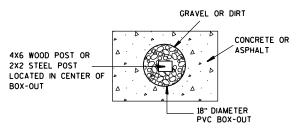
### ELEVATION VIEW

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

ELEVATION VIEW

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

- 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" (±) or 6'-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'' ( $\pm$ ) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\star\star\star$  See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

### POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

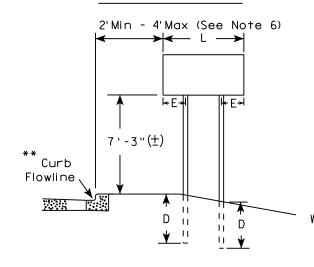
For State Traffic Engineer

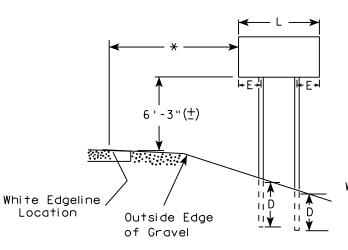
DATE 8/21/17 PLATE NO. A4-4.15

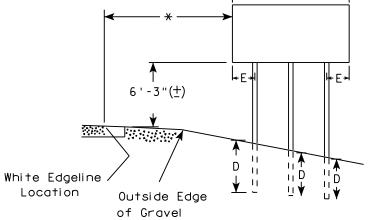
SHEET NO:

### URBAN AREA

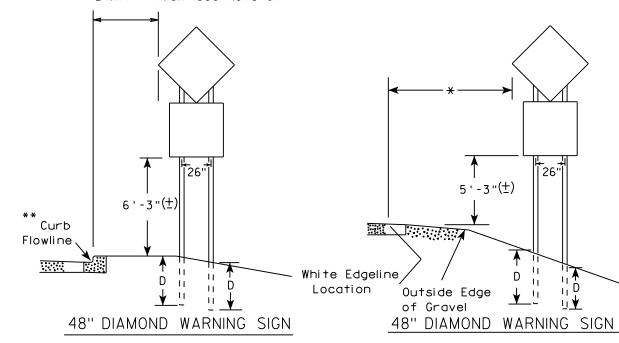
### RURAL AREA (See Note 3)







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



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

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

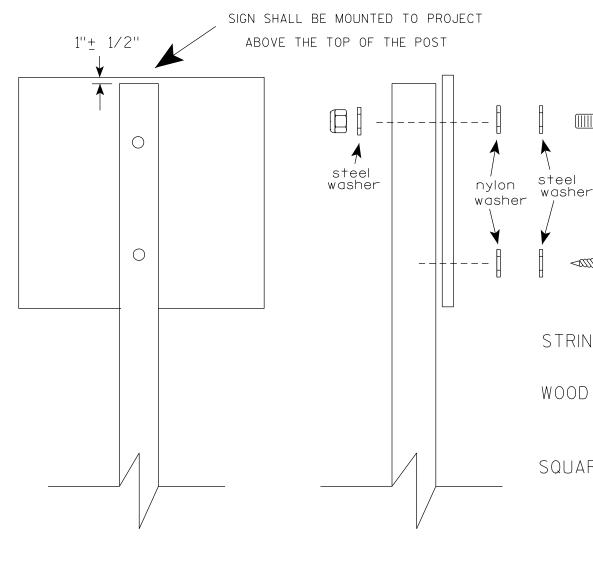
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 108.188297:1.000000

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

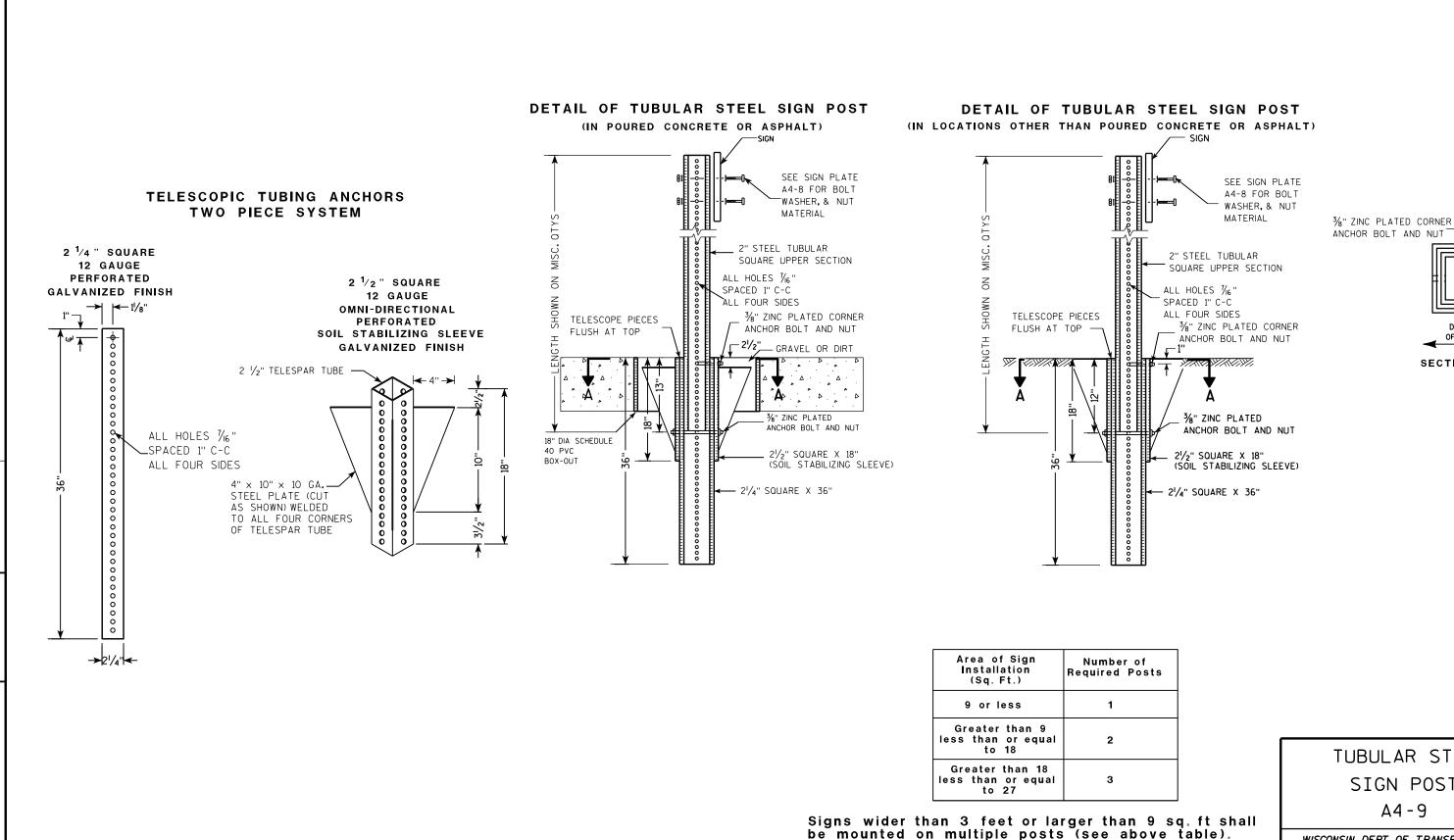
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

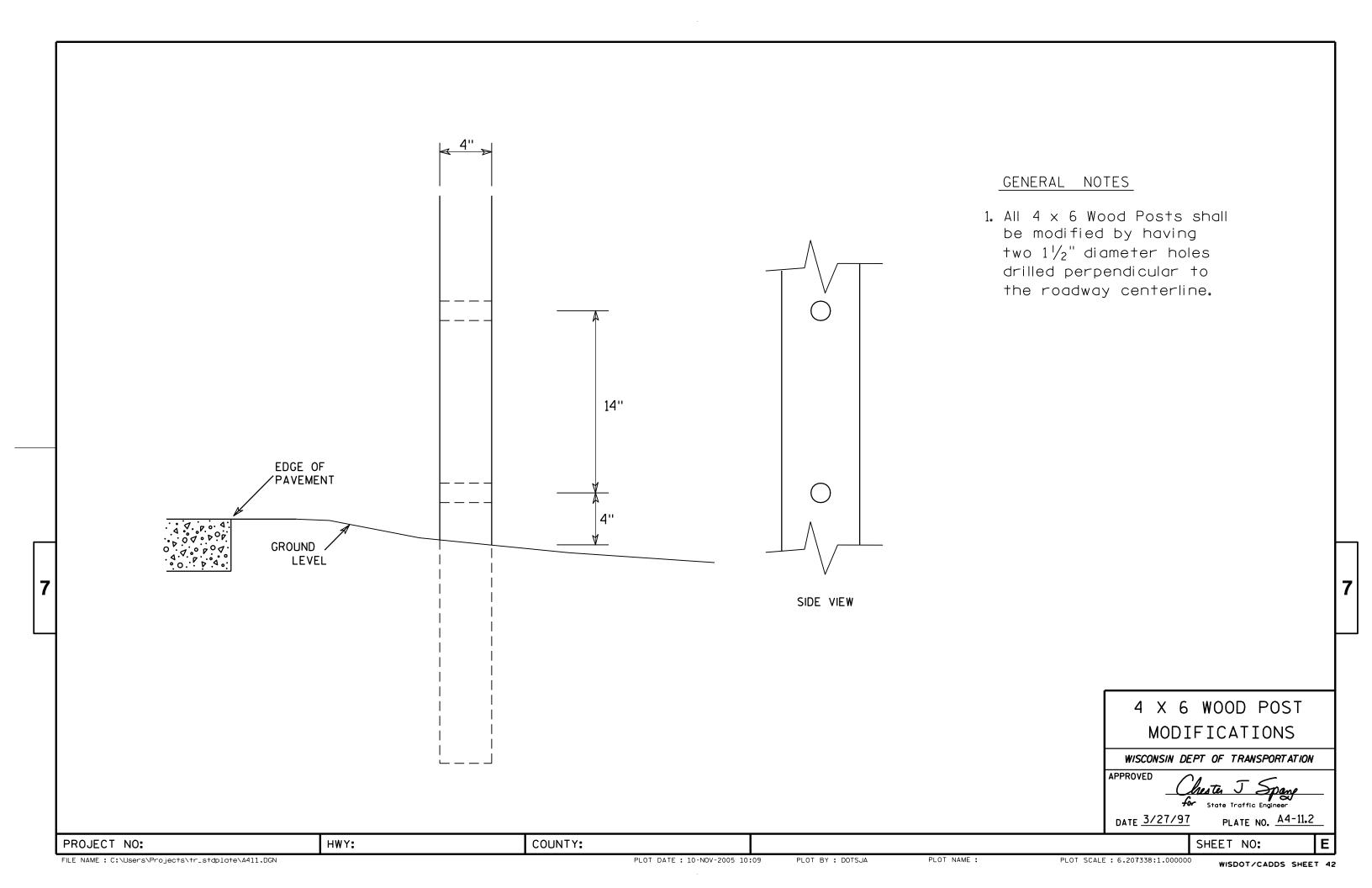
COUNTY:

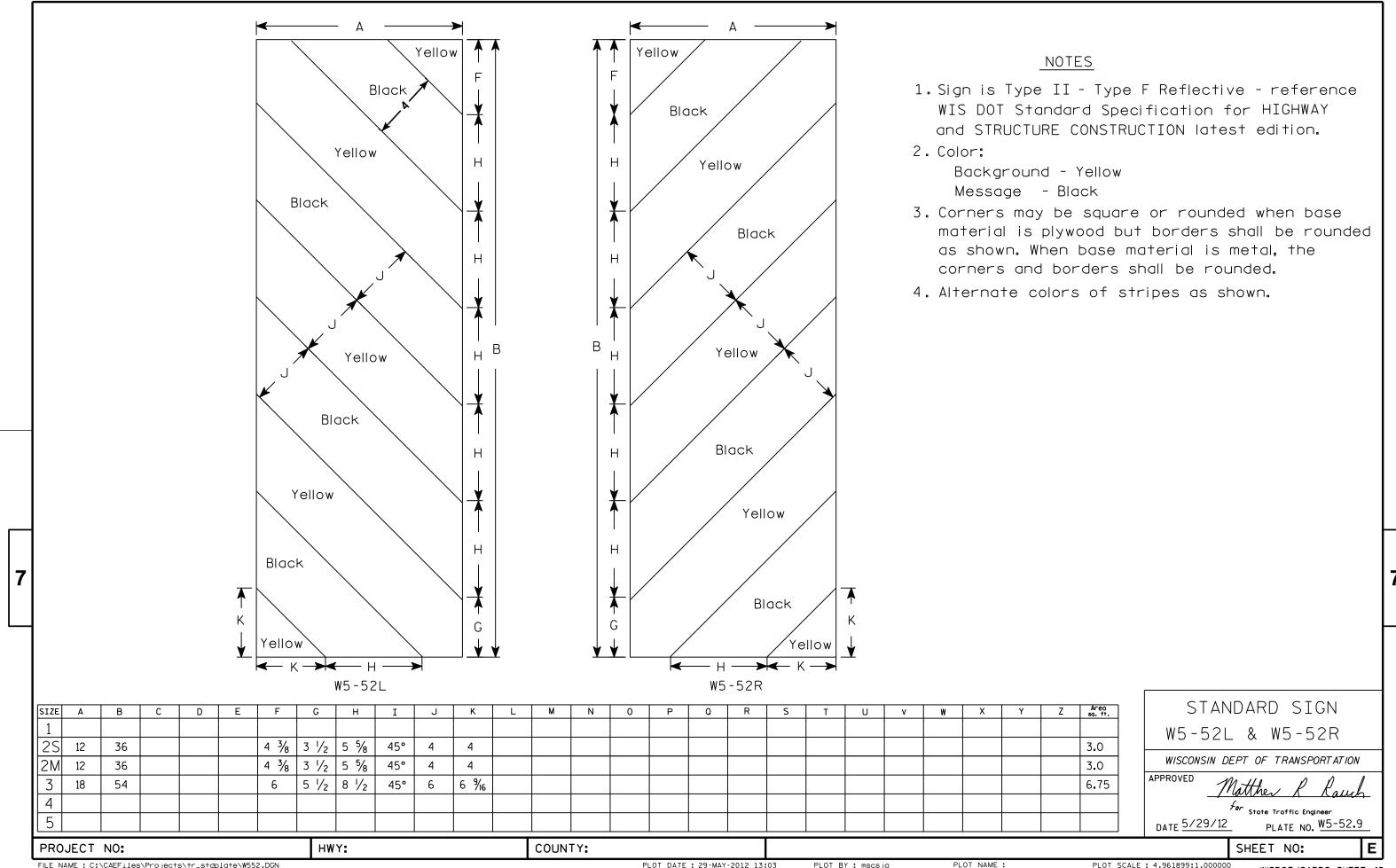
PLOT NAME :

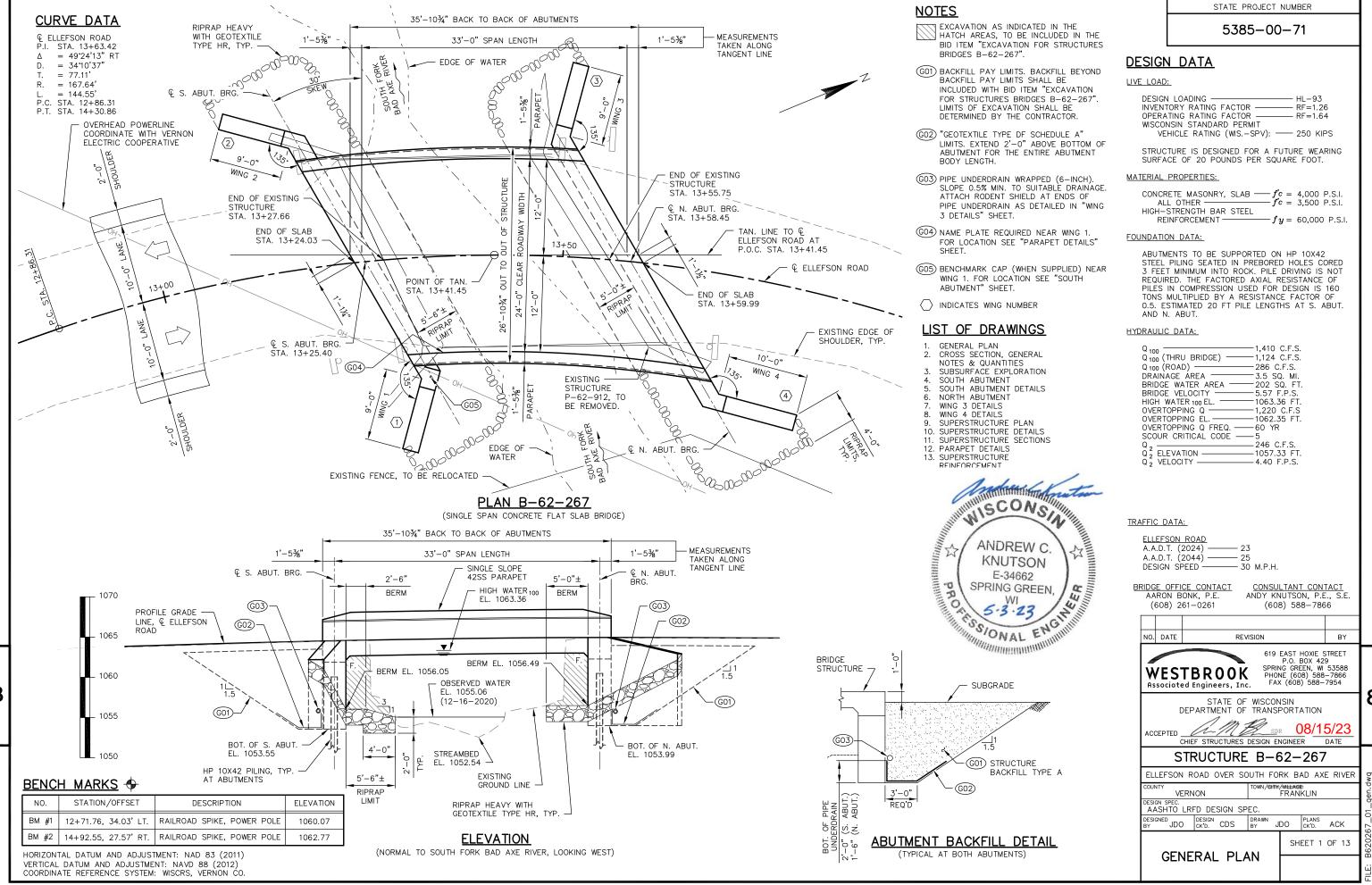
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A







GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

BEVEL EXPOSED EDGES OF CONCRETE 34" UNLESS OTHERWISE NOTED

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE FABRIC TYPE HR TO THE EXTENT SHOWN ON THE "GENERAL PLAN" SHEET AND THE ABUTMENT SHEETS.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WING FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCLUDED WITH "EXCAVATION FOR STRUCTURES BRIDGES B-62-267".

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.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE SUPERSTRUCTURE SLAB PER THE STANDARD SPECIFICATION. PIGMENTED SURFACE SEALER TO BE APPLIED TO THE PARAPETS PER THE STANDARD SPECIFICATION. SEE THIS SHEET FOR PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SFALER LIMITS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-62-267" SHALL BE THE EXISTING GROUND LINE.

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.

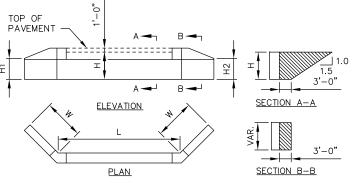
AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

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

SHALLOW BEDROCK (LESS THAN 10-FT BELOW ABUTMENT) WAS ENCOUNTERED IN THE BORING FOR THE NORTH AND SOUTH ABUTMENT. A MINIMUM OF 3-FEET OF PRE-BORE AT THE ABUTMENT INTO SUITABLE BEDROCK IS REQUIRED IF THE MINIMUM 10-FEET OF PILE PENETRATION INTO NATURAL GROUND CANNOT BE ACHIEVED. THE CONTRACTOR AND THE CONSTRUCTION ENGINEER SHOULD ANTICIPATE VARIABLE PILE PENETRATION

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

THE EXISTING STRUCTURE (P-62-912) IS A SINGLE SPAN STEEL GIRDER BRIDGE WITH A TIMBER DECK AND WITH AN OVERALL LENGTH OF 27.0-FT AND A DECK WIDTH OF 23.3-FT AND IS TO BE REMOVED PER BID ITEM "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-62-912".



### ABUTMENT BACKFILL DIAGRAM

= ABUTMENT BODY LENGTH AT BACKFACE (FT)

= AVERAGE ABUTMENT FILL HEIGHT (FT)

= WING 1 HEIGHT AT TIP (FT) = WING 2 HEIGHT AT TIP (FT)

W = WING LENGTH (FT)

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

PILE SPLICE DETAILS

 $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)$ 

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

1'-5%"

PARAPET

(G07)

MEASUREMENTS-

TAKEN RADIALLY

(G06)

APPLY PIGMENTED SURFACE SEALER TO -

1'-8" SLAB DEPTH

TOTALS

½" & ¾"

SLIPER

INSIDE AND TOP FACES OF PARAPET

IN SPAN

TYPICAL FOR EACH PARAPET.

CROWN POINT & POINT

REFERRED TO ON PROFILE

2.00%

GRADE LINE, & ELLEFSON ROAD

ACROSS THE LENGTH OF THE BRIDGE.

 $V_{\text{TON}} = V_{\text{CY}}(2.0)$ 



© S. ABUT. BRG.

E. N. ABUT. BRG.

P. N. ABUT. BRG.

E. N. ABUT. BRG.

P. N. ABUT. BRG.

E. N. ABUT. BRG.

P. N. ABUT. BRG.

R. = 18.32

WPT STA. 13+71.00

WPT STA. 13+71.00

WPT STA. 13+71.00

WPT STA. 13+71.00

PROFILE GRADE LINE,

© ELLEFSON ROAD

### REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS 203.0260 FACH \_\_\_ P-62-912 206,1001 EXCAVATION FOR STRUCTURES BRIDGES B-62-267 210.1500 BACKFILL STRUCTURE TYPE A TON 290 320 610 502.0100 CONCRETE MASONRY BRIDGES CY 41.2 44.7 73.6 160 502.3200 PROTECTIVE SURFACE TREATMENT SY 98 98 502.3210 PIGMENTED SURFACE SEALER SY 36 36 2,630 5,030 505.0400 BAR STEEL REINFORCEMENT HS STRUCTURES LB 2,400 505.0600 BAR STEEL REINFORCEMENT HS COATED STRUCTURES 1,510 1.600 15,840 18,950 LB 506.0105 STRUCTURAL STEEL CARBON 546 LB \_\_\_ 546 516 0500 RUBBERIZED MEMBRANE WATERPROOFING SY 14 550.0020 PRE-BORING ROCK OR CONSOLIDATED MATERIALS ΙF 95 95 ---190 550.1100 PILING STEEL HP 10-INCH X 42 LB LF 140 140 280 606.0300 RIPRAP HEAVY 35 30 65 CY ---612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH 75 80 155 645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY 32 36 68 645.0120 GEOTEXTILE TYPE HR SY 77 79 156

26'-10¾" OUT TO OUT OF STRUCTURE

24'-0" CLEAR ROADWAY WIDTH

© ELLEFSON ROAD

TAN LINE TO C

2.00%

ELLEFSON ROAD AT

P.O.C. STA. 13+41.45

ABUT. BERM EL. 1056.05

N. ABUT. BERM EL. 1056.49

VARIES

0" TO 1'-1½"

- 4"x¾" FILLER

-BOT. OF S. ABUT. EL. 1053.55 BOT. OF N. ABUT. EL. 1053.99

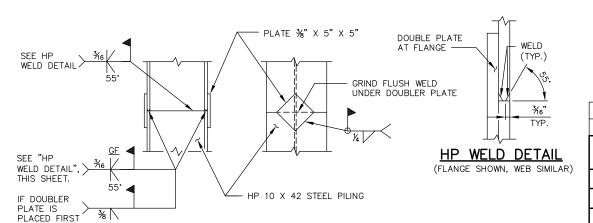
CROSS SECTION THRU ROADWAY

UNIT

S. ABUT.

N. ABUT.

\* REQUIRED FOR TWO PROTECTION ANGLES RUNNING FULL WIDTH OF BRIDGE DECK AT ABUTMENTS.



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-62-267

DRAWN JDO PLANS OKD ACK

CROSS SECTION, SHEET 2 OF 13

QUANTITIES

I.D. 5385-00-71

PLOT DATE: Apr 26, 2023

8

1'-5%"

LEVEL TYP.

SINGLE SLOPE

· ½" FILLER

RIPRAP HEAVY WITH

TOTAL ESTIMATED QUANTITIES

GEOTEXTILE TYPE HR, TYP

GO6 COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD

SPECIFICATIONS. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP SURFACE OF SLAB BETWEEN THE PARAPETS.

(GO7) 4" V-GROOVE REQ'D. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT.

BID ITEMS

AT ABUTMENT

(PILING NOT SHOWN FOR CLARITY)

42SS PARAPET

PARAPET

2%"

OVERHANG,

TYP.

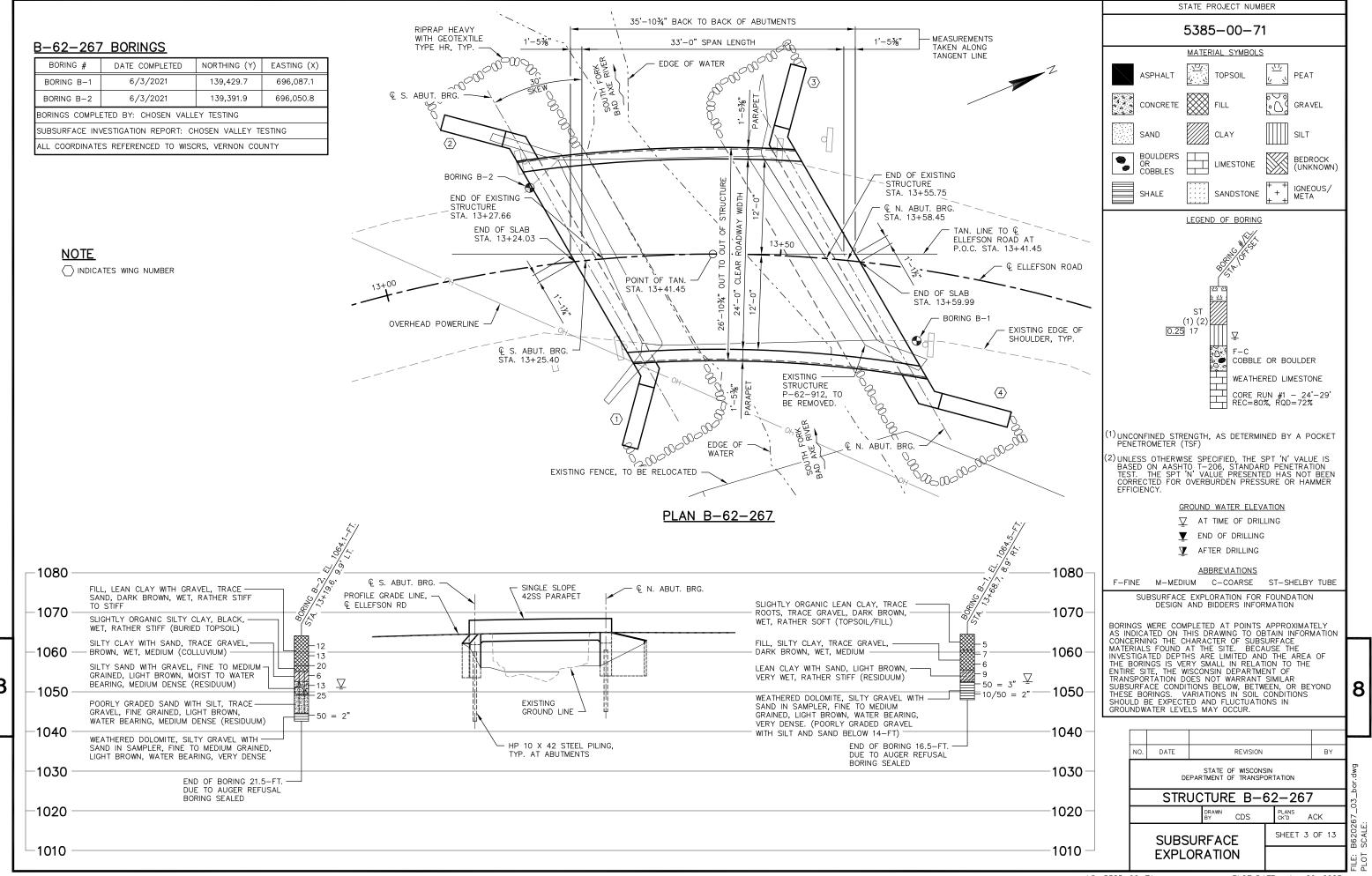
TOP OF

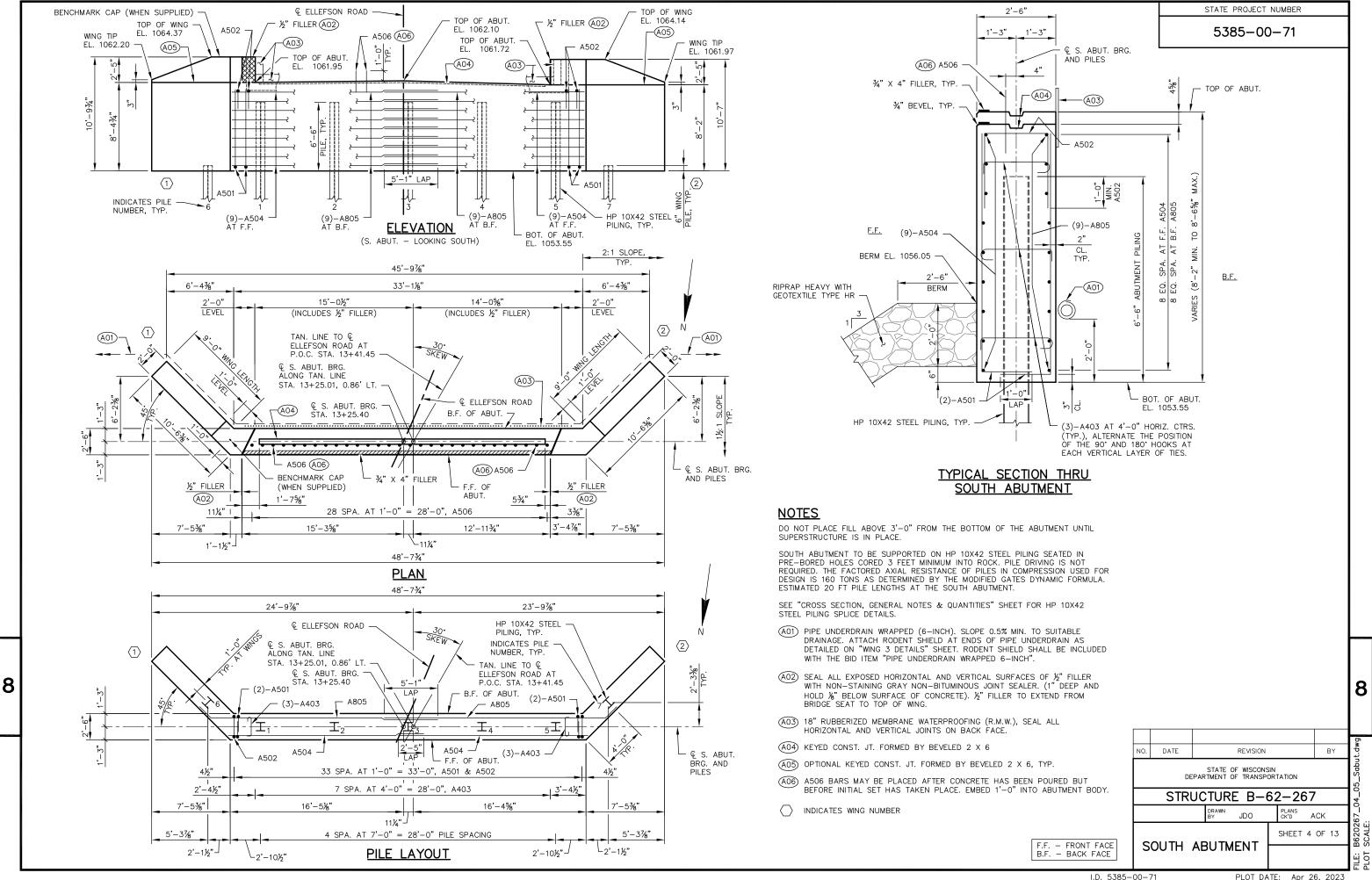
WING

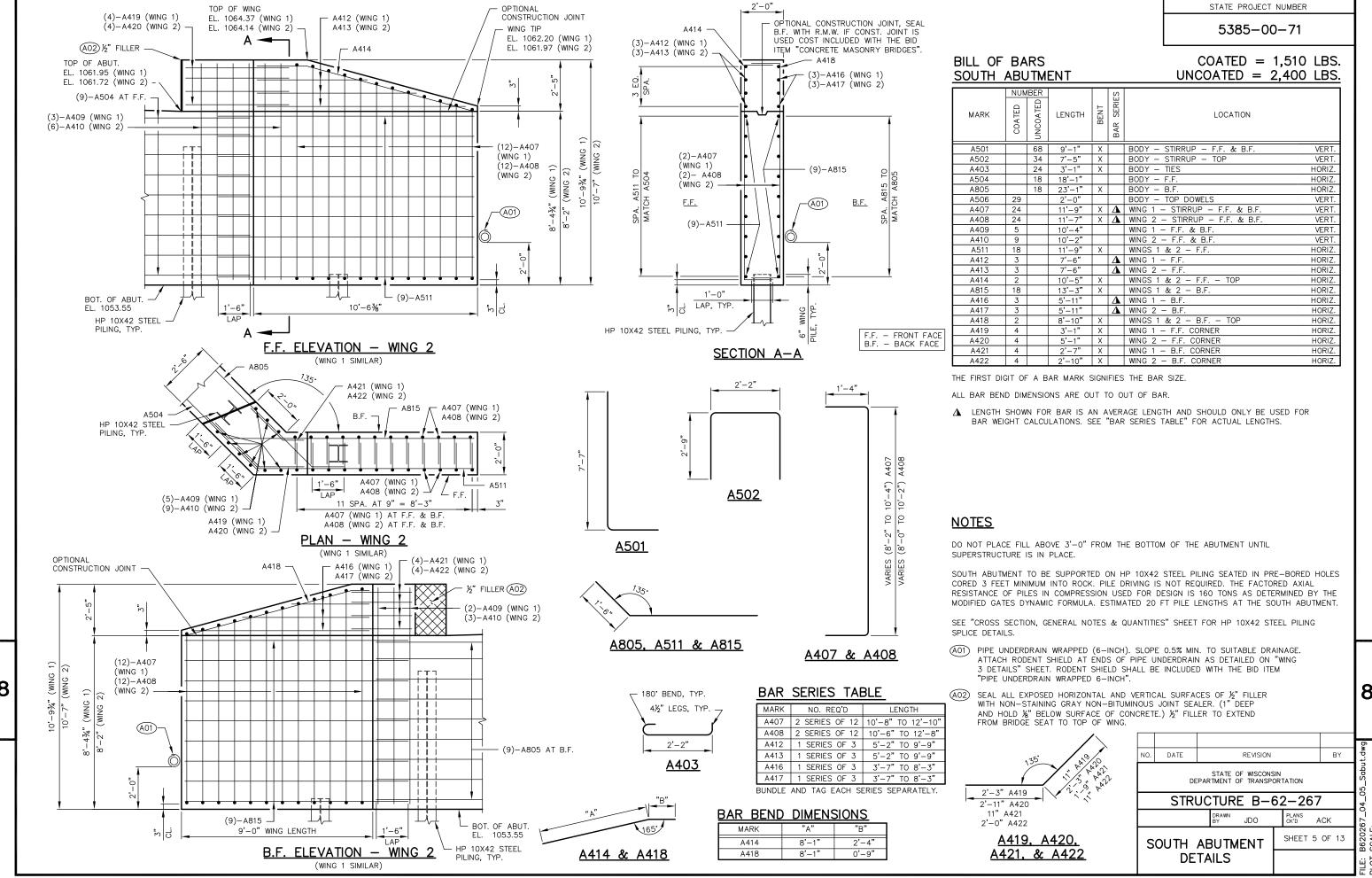
**NOTES** 

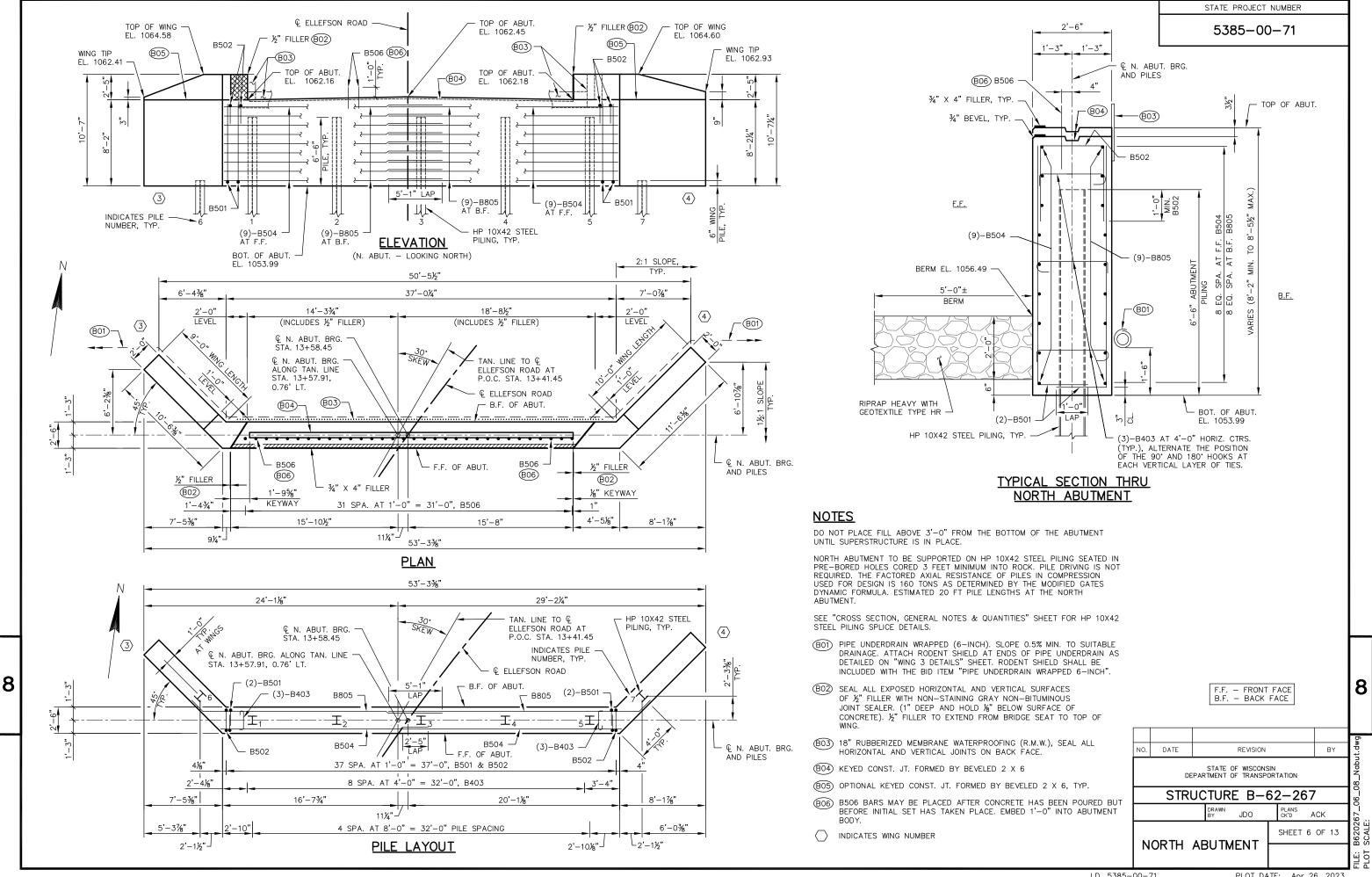
ITEM NO.

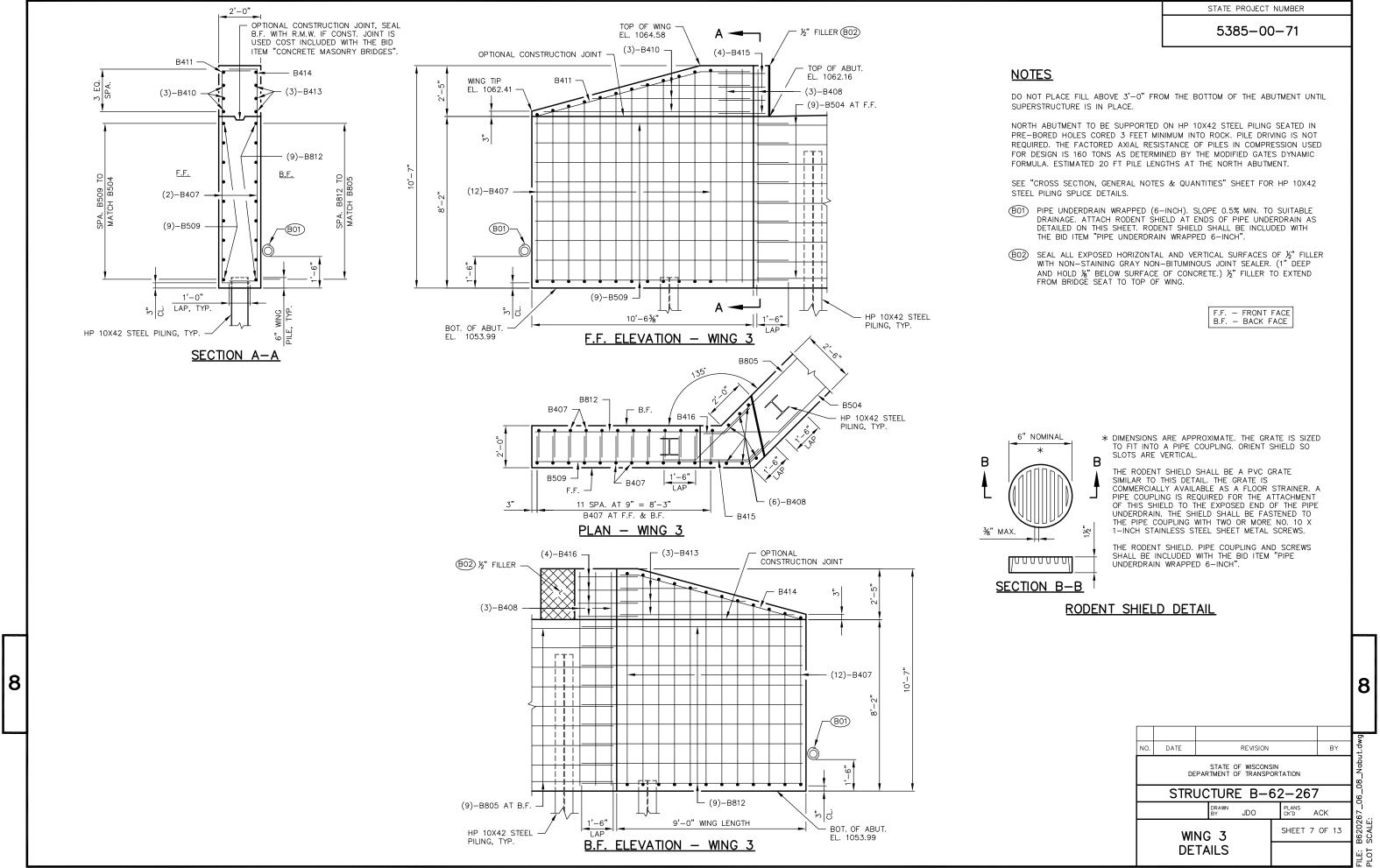
(NON-BID ITEM) | FILLER

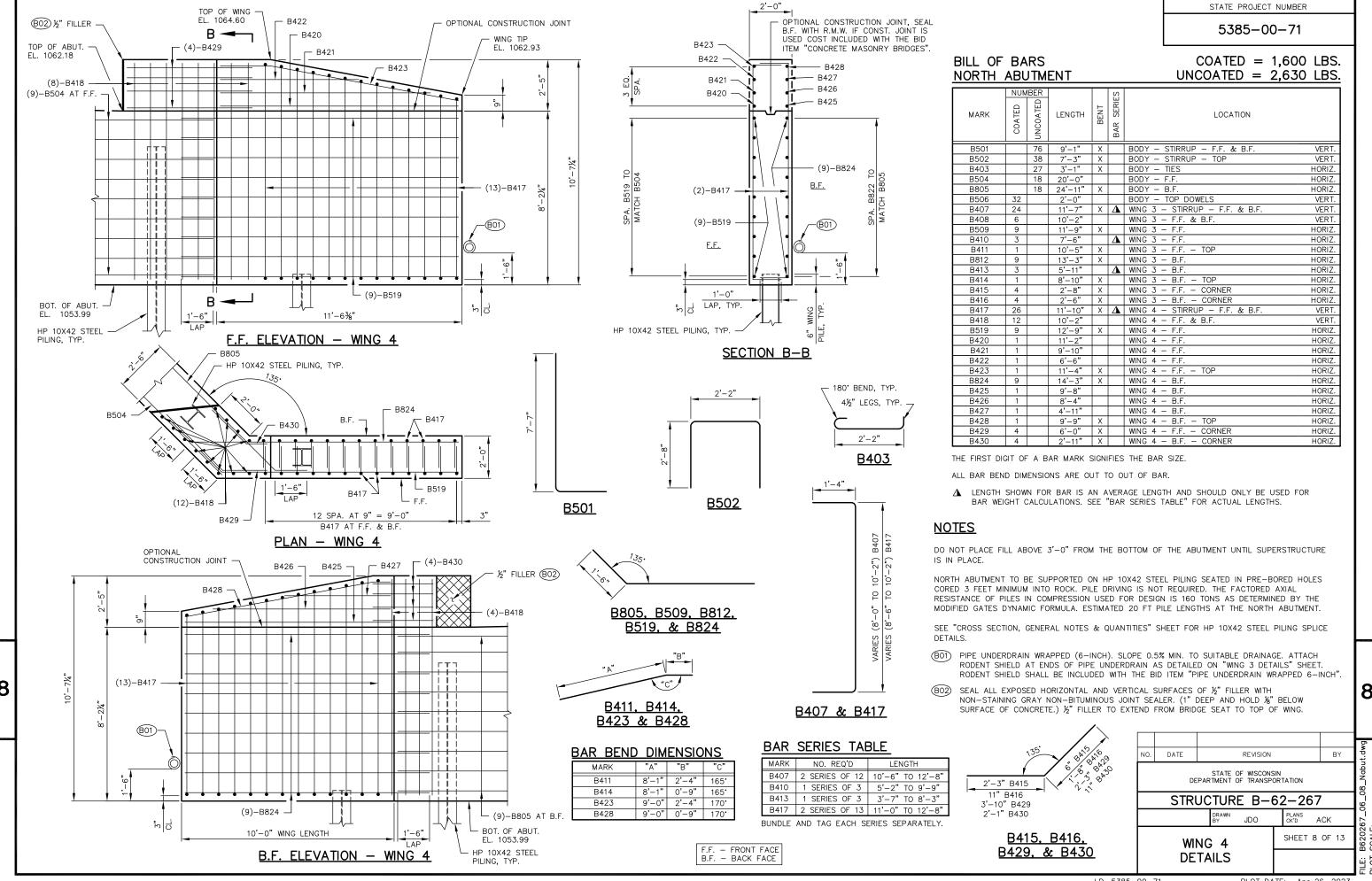


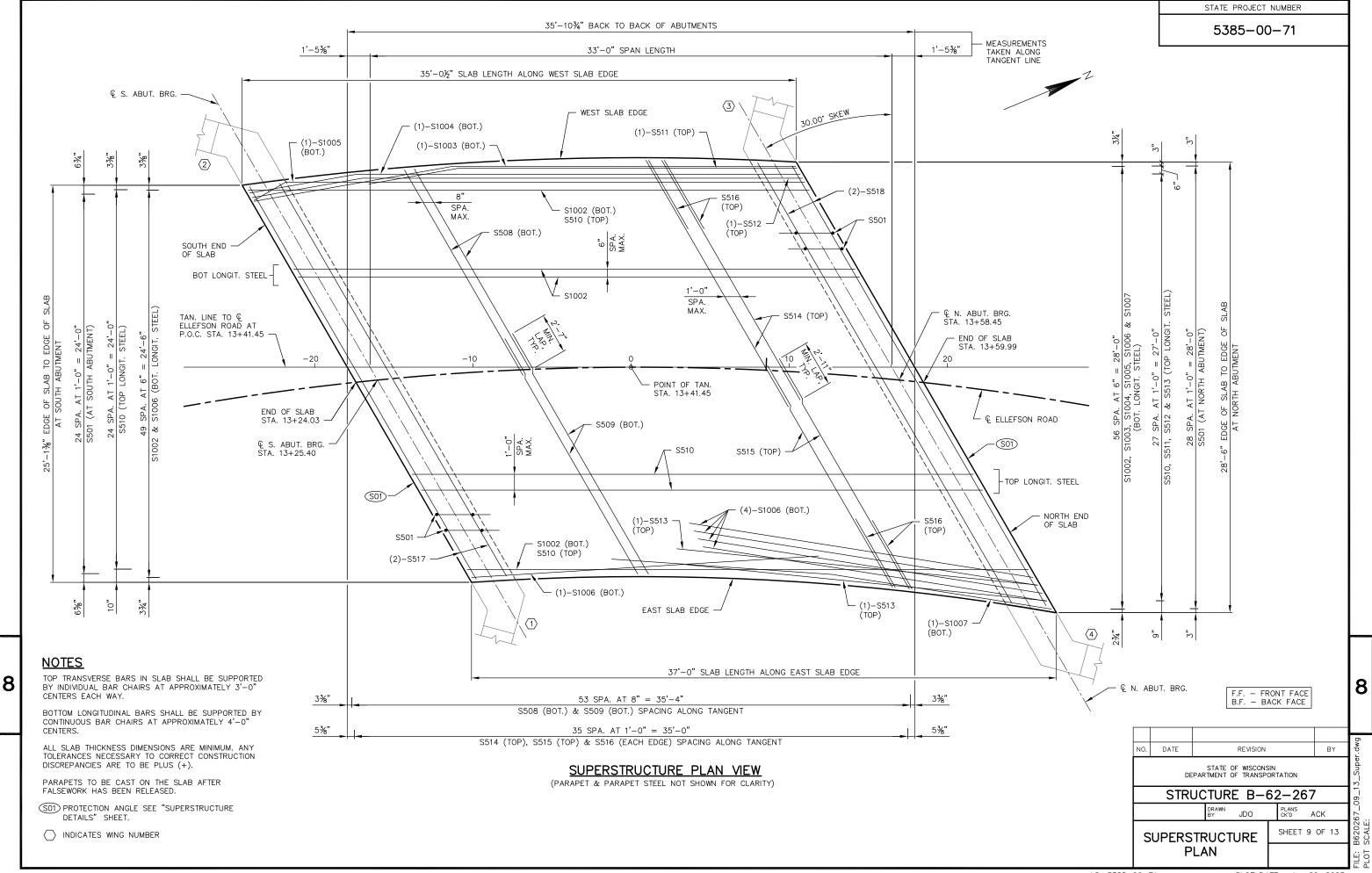


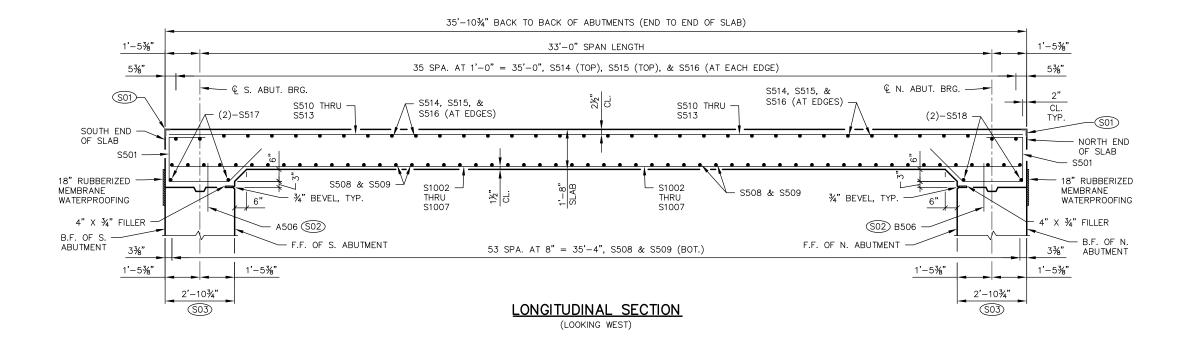








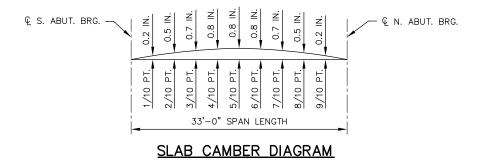




### SURVEY TOP OF SLAB ELEVATIONS

	€ S. ABUT. BRG.	5/10 PT.	Ç N. ABUT. BRG.
WEST SLAB EDGE			
€ ELLEFSON ROAD			
EAST SLAB EDGE			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE & OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND REFERENCE LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

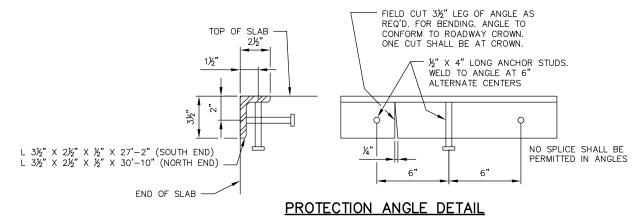


TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE

SLAB THICKNESS CAMBER PLUS

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



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

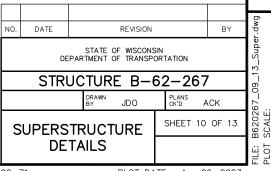
SANDBLAST PROTECTION ANGLE AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PROTECTION ANGLE SHALL BE HOT DIPPED GALVANIZED.

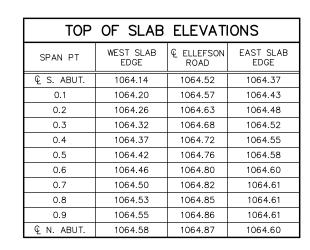
PROTECTION ANGLES ARE REQUIRED AT BOTH END OF SLABS AND ARE TO BE EMBEDDED IN THE BRIDGE SLAB CONCRETE.
ENSURE PROTECTION ANGLES ARE SECURELY IN PLACE PRIOR TO POURING THE BRIDGE SLAB.

### **NOTES**

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

- \$01 PROTECTION ANGLE SEE "PROTECTION ANGLE DETAIL", THIS SHEET.
- SO2 SEE "SOUTH ABUTMENT" SHEET FOR PLACEMENT OF A506 BARS AND SEE "NORTH ABUTMENT" SHEET FOR PLACEMENT OF B506 BARS.
- \$03 DIMENSION IS TAKEN ALONG TANGENT LINE TO \$ELLEFSON ROAD





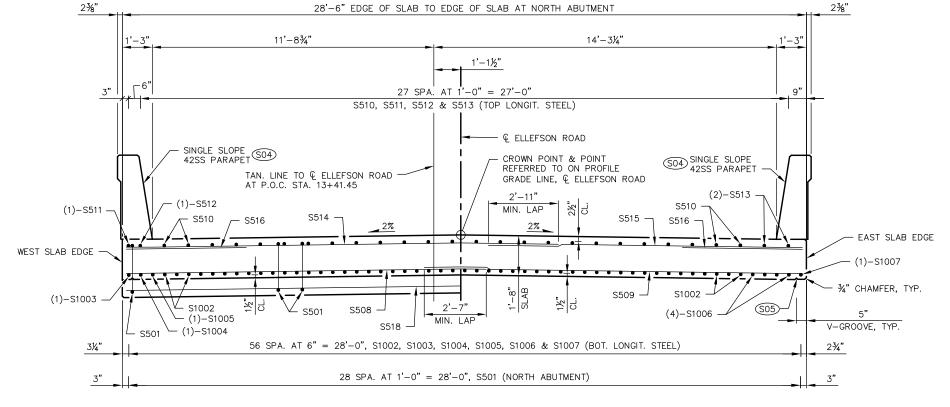
WEST DECK EDGE				
SPAN PT	STA. ON & ELLEFSON ROAD	DISTANCE ALONG TANGENT LINE	OFFSET ALONG TANGENT LINE (LEFT)	EDGE OF DECK ELEVATION
€ S. ABUT.	13+19.88	-23.25	11.69	1064.14
0.1	13+22.87	-20.04	12.08	1064.20
0.2	13+25.87	-16.83	12.42	1064.26
0.3	13+28.86	-13.62	12.70	1064.32
0.4	13+31.85	-10.40	12.92	1064.37
0.5	13+34.84	-7.17	13.09	1064.42
0.6	13+37.83	-3.95	13.20	1064.46
0.7	13+40.83	-0.72	13.25	1064.50
0.8	13+43.82	2.51	13.24	1064.53
0.9	13+46.81	5.74	13.17	1064.55
ℚ N. ABUT.	13+49.80	8.97	13.05	1064.58

EAST DECK EDGE				
SPAN PT	STA. ON & ELLEFSON ROAD	DISTANCE ALONG TANGENT LINE	OFFSET ALONG TANGENT LINE (RIGHT)	EDGE OF DECK ELEVATION
€ S. ABUT.	13+31.97	-8.69	13.52	1064.37
0.1	13+35.67	-5.29	13.36	1064.43
0.2	13+39.38	-1.87	13.27	1064.48
0.3	13+43.08	1.54	13.25	1064.52
0.4	13+46.79	4.95	13.31	1064.55
0.5	13+50.49	8.36	13.45	1064.58
0.6	13+54.20	11.76	13.66	1064.60
0.7	13+57.90	15.16	13.95	1064.61
0.8	13+61.61	18.55	14.31	1064.61
0.9	13+65.31	21.94	14.75	1064.61
€ N. ABUT.	13+69.02	25.31	15.26	1064.60

### NOTES

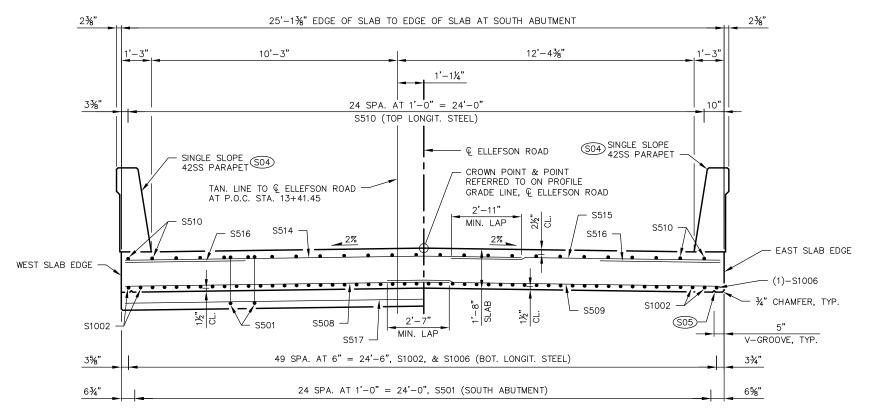
- SO4) SEE "PARAPET DETAILS" SHEET FOR REINFORCEMENT.
- \$65 \( \frac{4}{3}\) V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT BODY. V-GROOVES ARE REQUIRED.

					б
0.	DATE	REVISION		BY	P.G
	DE	STATE OF WISCON PARTMENT OF TRANSF			3_Super.dwg
	STRI	JCTURE B-	62-267	7	.09_13_
		DRAWN BY JDO	PLANS CK'D A	ACK	
S	UPERS	TRUCTURE	SHEET 11	OF 13	B620267_ SCALE:
	SEC	TIONS			FILE: F



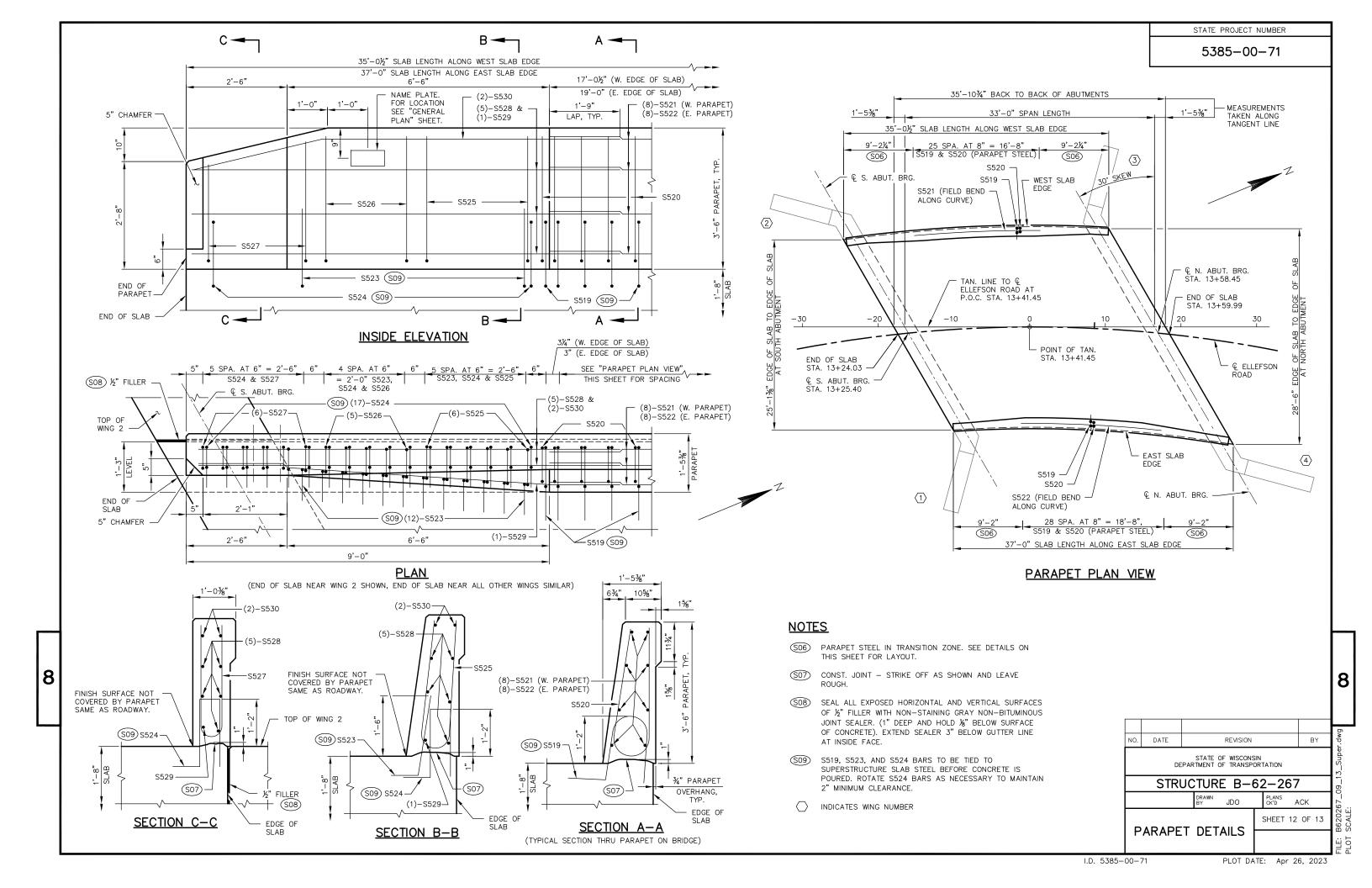
### CROSS SECTION THRU ROADWAY AT NORTH END OF BRIDGE

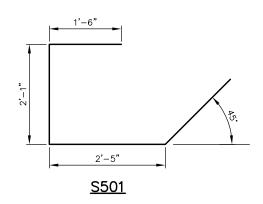
(LOOKING NORTH)

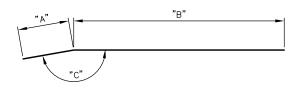


### CROSS SECTION THRU ROADWAY AT SOUTH END OF BRIDGE

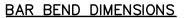
(LOOKING NORTH)

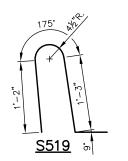


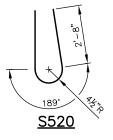




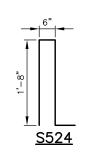
<u>\$1003, \$1004, \$1005, \$1007, \$511, & \$512</u>

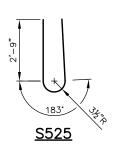




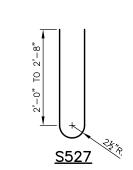


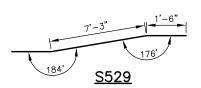














### BAR SERIES TABLE

MARK	NO. REQ'D	LENGTH			
S509	1 SERIES OF 54	16'-4" TO 20'-2"			
S515	1 SERIES OF 36	13'-8" TO 17'-5"			
S527	4 SERIES OF 6	4'-9" TO 6'-1"			

BUNDLE AND TAG EACH SERIES SEPARATELY.

# BILL OF BARS SUPERSTRUCTURE

COATED = 15,840 LBS.

MARK	COATED Z	UNCOATED BE	LENGTH	BENT	BAR SERIES	LOCATION	
S501	54		7'-8"	Х		SLAB AT ABUTMENT - TIES	LONGIT.
S1002	49		35'-6"			SLAB - BOTTOM	LONGIT.
S1003	1		34'-4"	Х		SLAB - BOTTOM - WEST EDGE	LONGIT.
S1004	1		34'-10"	Х		SLAB - BOTTOM - WEST EDGE	LONGIT.
S1005	1		35'-1"	Х		SLAB - BOTTOM - WEST EDGE	LONGIT.
S1006	5		22'-0"			SLAB - BOTTOM - EAST EDGE	LONGIT.
S1007	1		28'-0"	Х		SLAB - BOTTOM - EAST EDGE	LONGIT.
S508	54		15'-0"			SLAB - BOTTOM	TRANS.
S509	54		18'-3"		Δ	SLAB - BOTTOM	TRANS.
S510	25		35'-6"			SLAB - TOP	LONGIT.
S511	1		27'-2"	X		SLAB - TOP - WEST EDGE	LONGIT.
S512	1		34'-10"	Х		SLAB - TOP - WEST EDGE	LONGIT.
S513	2		22'-11"			SLAB - TOP - EAST EDGE	LONGIT.
S514	36		18'-0"			SLAB - TOP	TRANS.
S515	36		15'-7"		Δ	SLAB - TOP	TRANS.
S516	72		5'-0"			SLAB - TOP - EDGES	TRANS.
S517	2		28'-8"			SLAB - BOTTOM - SOUTH ABUTMENT	TRANS.
S518	2		32'-1"			SLAB - BOTTOM - NORTH ABTUMENT	TRANS.
S519	59		4'-5"	X		PARAPET - STIRRUP	VERT.
S520	59		6'-8"	Х		PARAPET – STIRRUP	VERT.
S521	8		16'-8"			PARAPET - WEST PARAPET HORIZ.	LONGIT.
S522	8		18'-7"			PARAPET - EAST PARAPET HORIZ.	LONGIT.
S523	48		2'-9"	Х		PARAPET - END TRANSITIONS	VERT.
S524	68		4'-4"	Х		PARAPET - END TRANSITIONS	VERT.
S525	24		6'-6"	Х		PARAPET - END TRANSITIONS	VERT.
S526	20		6'-5"	Х		PARAPET - END TRANSITIONS	VERT.
S527	24		5'-5"	Х	Δ	PARAPET - END TRANSITIONS	VERT.
S528	20		10'-7"			PARAPET - END TRANSITIONS	HORIZ.
S529	4		10'-7"	Х		PARAPET - END TRANSITIONS	HORIZ.
S530	8		10'-7"	Χ		PARAPET - END TRANSITIONS	HORIZ.

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

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE "BAR SERIES TABLE" FOR ACTUAL LENGTHS.

BY

NO. DATE REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-62-267

SUPERSTRUCTURE

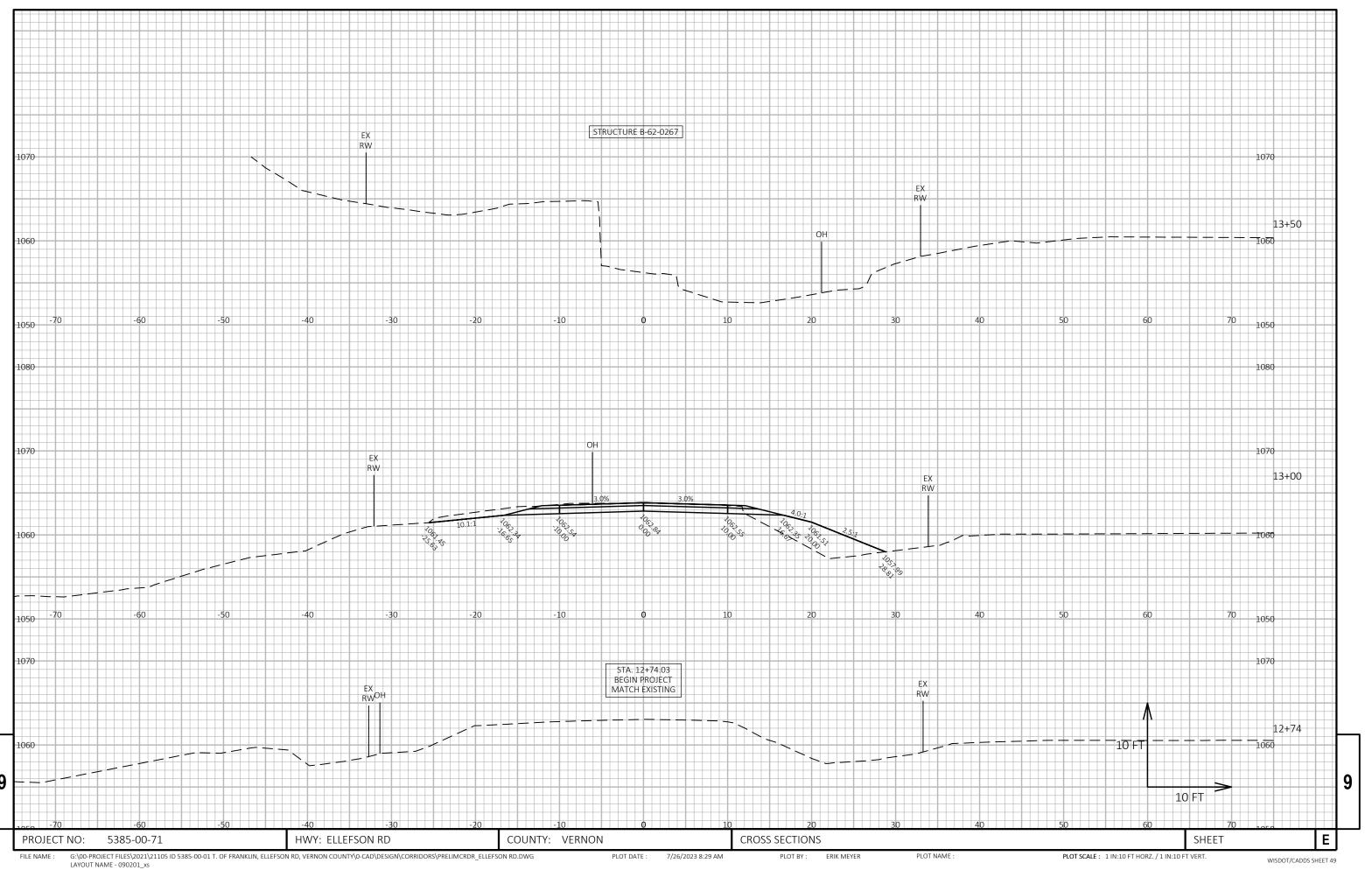
PLANS CK'D ACK SHEET 13 OF 13 REINFORCEMENT

	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL Note 2	FILL Note 3	CUT 1.00 Note 1	EXPANDED FILL 1.25	MASS ORDINATE Note 4
12+74.03	Ε.	33.72	0.00	19.16	0	0	0	0	0	0
13+00.00	25.97	33.46	0.00	33.17	32	0	25	32	31	1
13+10.00	10.00	31.03	0.00	34.42	12	0	13	44	48	-3
13+24.03	14.03	12.88	0.00	39.40	11	0	19	55	71	-16
13+31.44	7.41	0.00	0.00	0.00	2	0	5	57	78	-20
				ST	RUCTURE	B-62-0267			47	
			DIVISION 1 TOTALS		57	0	62			

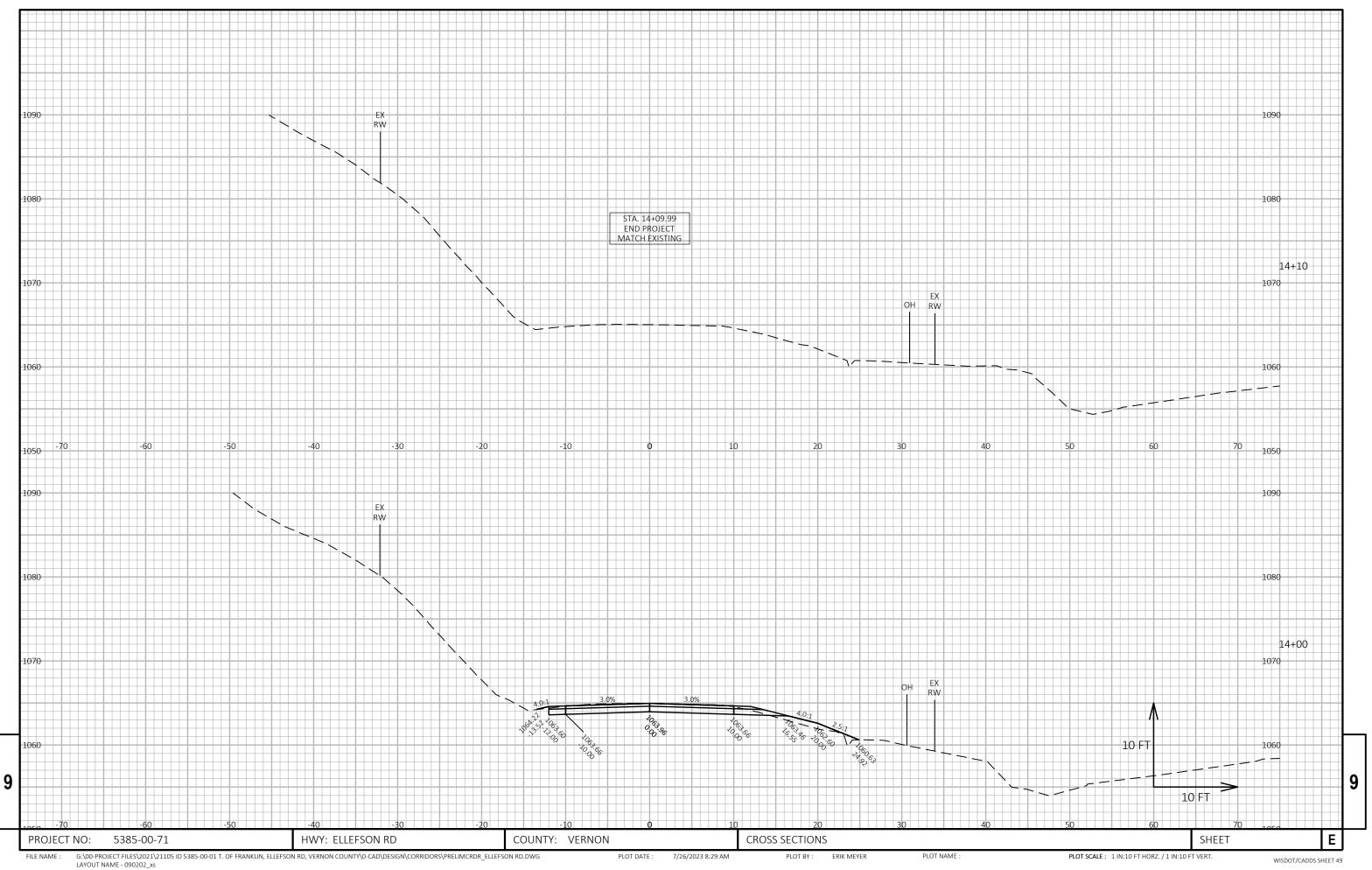
ë	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT Note 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL Note 2	FILL Note 3	CUT 1.00 Note 1	EXPANDED FILL 1.25	MASS ORDINATE Note 4
				ST	TRUCTURE	B-62-0267				
13+50.15	-	0.00	0.00	0.00	0	0	0	0	0	0
13+60.00	9.85	13.70	0.00	0.00	2	0	0	2	0	2
13+83.20	23.20	24.10	0.00	33.57	16	0	14	18	18	1
14+00.00	16.80	24.80	0.00	5.27	15	0	12	33	33	1
14+09.99	9.99	25.61	0.00	5.01	9	0	2	42	35	8
			DIVISION 2 TOTALS		42	0	28			
			PROJECT TOTALS		99	0	90			

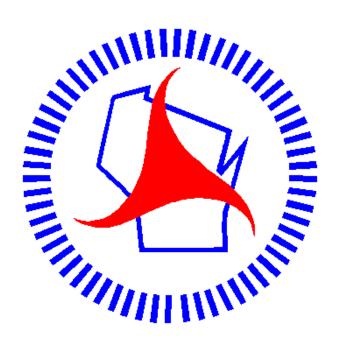
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	[(CUT) - (FILL * FILL FACTOR) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)]

SHEET COUNTY: VERNON Ε PROJECT NO: 5385-00-71 HWY: ELLEFSON RD EARTHWORK QUANTITIES PLOT BY: ERIK MEYER PLOT SCALE : 1" = 1'



LAYOUT NAME - 090201\_xs





# Wisconsin Department of Transportation

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