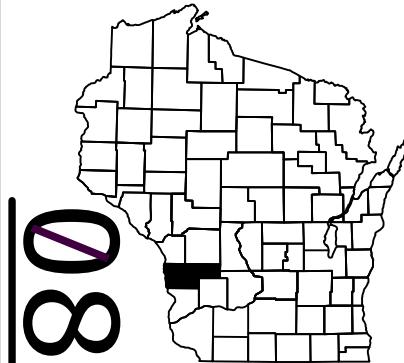


MARCH 2026

ORDER OF SHEETS

Section No. 1 Title  
 Section No. 2 Typical Sections and Details  
 Section No. 3 Estimate of Quantities  
 Section No. 3 Miscellaneous Quantities  
 Section No. 4 Right of Way Plat  
 Section No. 5 Plan and Profile  
 Section No. 6 Standard Detail Drawings  
 Section No. 7 Sign Plates  
 Section No. 8 Structure Plans  
 Section No. 9 Computer Earthwork Data  
 Section No. 9 Cross Sections

TOTAL SHEETS = 42



N

DESIGN DESIGNATION 5405-00-00

A.A.D.T. 2026 = 94  
 A.A.D.T. 2046 = 99  
 D.H.V. = 14  
 D.D. = 62/38  
 T. = 7.7%  
 DESIGN SPEED = 30 MPH  
 ESALS = 7,300

## CONVENTIONAL SYMBOLS

PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
MARSH AREA	STORM SEWER
WOODED OR SHRUB AREA	TELEPHONE
	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION

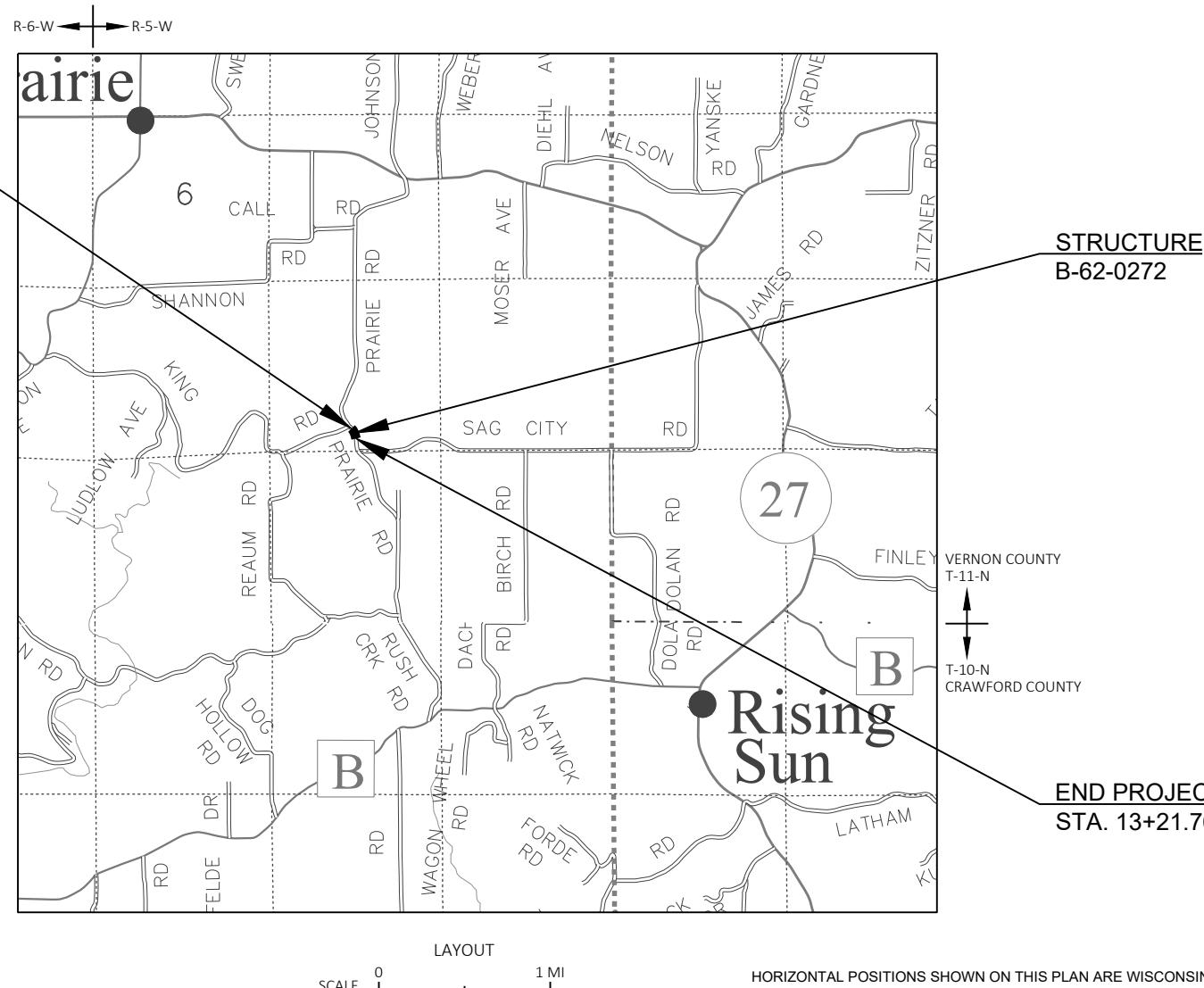
## PLAN OF PROPOSED IMPROVEMENT

## TOWN OF STERLING, PRAIRIE ROAD

RUSH CREEK BRIDGE B-62-0272

LOC STR  
VERNON COUNTY

STATE PROJECT NUMBER  
**5405-00-70**



STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5405-00-70	_____	_____

ACCEPTED FOR  
 VERNON COUNTY  
*Phil Hewitt Hwy Comm*  
 10/20/20  
 Date (Signature and Title of Official)

ORIGINAL PLANS PREPARED BY

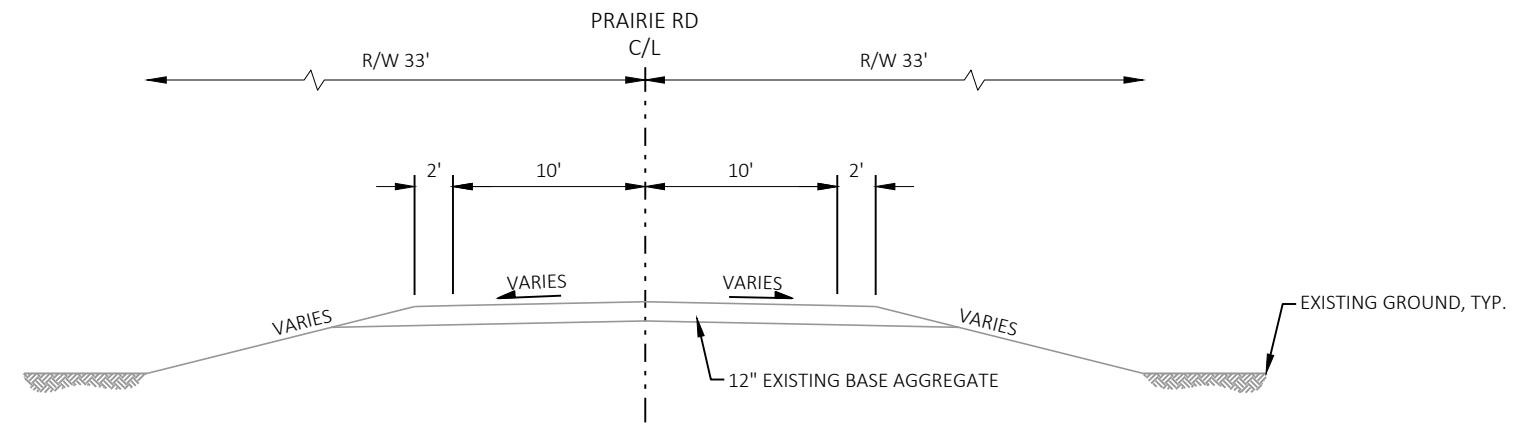
**WESTBROOK**  
 Associated Engineers, Inc.  
 619 EAST HOXIE STREET  
 P.O. BOX 429  
 SPRING GREEN, WISCONSIN 53588  
 PHONE (608) 588-7866  
 FAX (608) 588-7954

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION

PREPARED BY  
 Surveyor *WESTBROOK ASSOCIATED ENGINEERS, INC.*  
 Designer *WESTBROOK ASSOCIATED ENGINEERS, INC.*  
 Project Manager *LORRAINE BETZEL, P.E.*  
 Regional Examiner *SW REGION*  
 Regional Supervisor *KYLE HEMP, P.E.*

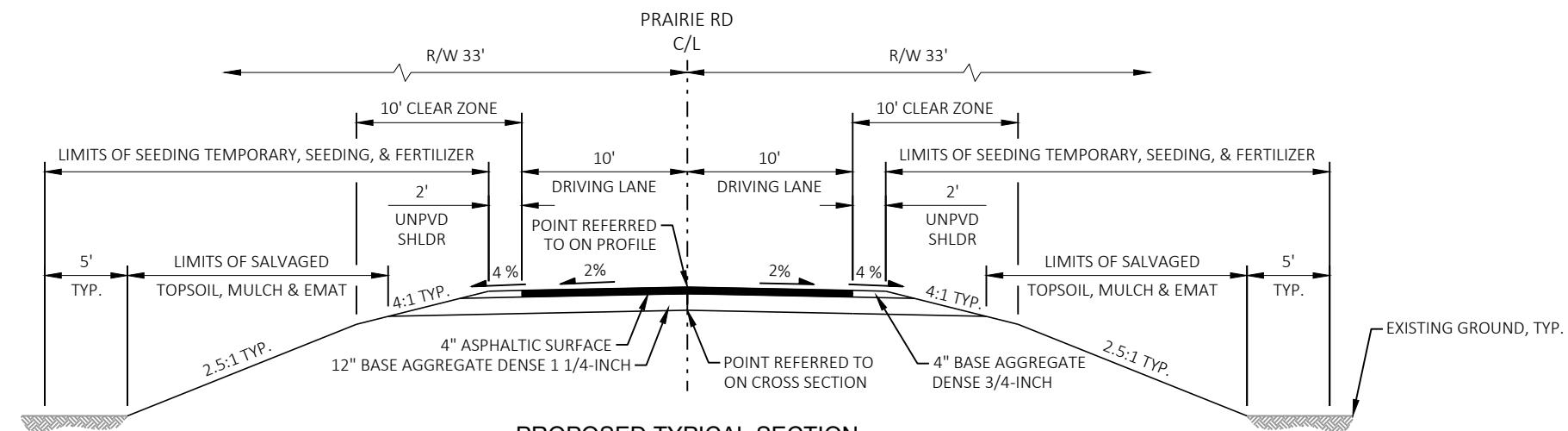
APPROVED FOR THE DEPARTMENT  
 DATE: *10/21/25*  
 APPROVED FOR THE DEPARTMENT  
 DATE: *10/21/25*  
*Lorraine Betzel*  
 (Signature)

STANDARD ABBREVIATIONS												WISCONSIN DNR LIAISON			DESIGN PROJECT MANAGER			GENERAL NOTES		
ABUT	ABUTMENT	LS	LUMP SUM	MGAL	ONE THOUSAND GALLONS							KAREN KALVELAGE			LORRAINE BETZEL, P.E.			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.		
AC	ACRE	ML OR M/L	MATCH LINE	NOM	NOMINAL							DNR SERVICE CENTER			SW REGION			THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.		
AGG	AGGREGATE	NC	NORMAL CROWN	NB	NORTHBOUND							3550 MORMON COULEE RD			2101 WRIGHT ST			HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.		
AH	AHEAD	NO	NUMBER	OD	OUTSIDE DIAMETER							LA CROSSE, WI 54601			MADISON, WI 53704			APPLY TACK COAT BETWEEN LAYERS OF HMA PAVEMENT AT A RATE OF 0.05 GAL/SY.		
∠	ANGLE	PAVT	PAVEMENT	PC	POINT OF CURVATURE							PHONE: (608) 406-7880			PHONE: (608) 246-3279			NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.		
AADT	ANNUAL AVERAGE DAILY TRAFFIC	PI	POINT OF INTERSECTION	PT	POINT OF TANGENCY							PORTRAL CEMENT CONCRETE			EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV			RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.		
ASPH	ASPHALTIC	PSI	POUNDS PER SQUARE INCH	LB	POUND							WESTBROOK ASSOCIATED ENGINEERS, INC.			EMAIL: LORRAINE.BETZEL@DOT.WI.GOV			THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.		
BK	BACK	PE	PRIVATE ENTRANCE	PROJ	PROJECT							619 E HOXIE ST			EMAIL: APALMER@WESTBROOKENG.COM			WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE, SUBBASE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.		
BAD	BASE AGGREGATE DENSE	PL	PROPERTY LINE	R	RADIUS							SPRING GREEN, WI 53588			EMAIL: PHIL.HEWITT@VERNONCOUNTYWI.GOV			THE CONTRACTOR SHALL PREPARE AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND SUBMIT THE PLAN TO WISDOT AND WDNR FOR REVIEW AT LEAST 14 DAYS PRIOR TO THE PRECONSTRUCTION CONFERENCE.		
BL OR B/L	BASE LINE	RL OR R/L	REFERENCE LINE	REQD	REQUIRED							R						EROSION CONTROL FEATURES, AS SHOWN IN THE PLANS, ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.		
BM	BENCH MARK	RT	RIGHT	RHF	RIGHT HAND FORWARD							R/L OR R/W						Biodegradable non-netted matting shall be used along stream corridors.		
CL OR C/L	CENTER LINE	R/W	RIGHT OF WAY	RD	ROAD							RD						Slopes 2.5:1 or steeper require erosion mat.		
Δ	CENTRAL ANGLE OR DELTA	RDWY	ROADWAY	SHLDR	SHOULDER							RDWY						Curve data is based on the arc definition.		
CONC	CONCRETE	SB	SOUTHBOUND	SPECS	SPECIFICATIONS							SHLDR						The proposed shoulder width shown in the typical sections are minimum width. perpetuate existing shoulders that are wider than what is shown in the typical sections.		
CONST	CONSTRUCTION	SF	SQUARE FEET	SY	SQUARE YARD							SB						The contractor's paving operation shall be consistent with the typical sections and constructed to prevent longitudinal joints from being located within a driving lane.		
CP	CONTROL POINT	SDD	STANDARD DETAIL DRAWINGS	STH	STATE TRUNK HIGHWAY							SY						The 4-inch asphaltic surface shall be constructed using one (1) 2.25-inch lower layer and one (1) 1.75-inch upper layer. The preferred lower layer is 2.25-inches of 3 LT 58-28 S. The preferred upper layer is 1.75-inches of 4 LT 58-28 S.		
CO	COUNTY	STA	STATION	SE	SUPERELEVATION							STH						SAWCUTS, as shown on the plans, are suggested locations and may be adjusted at the discretion of the engineer to better suit field conditions.		
CTH	COUNTY TRUCK HIGHWAY	SL OR S/L	SURVEY LINE	TEMP	TEMPORARY							T						The contractor shall maintain access to all driveways at all times except when paving operations require the driveway to be closed. Access to driveways shall be re-established immediately after operations are completed. Access shall be provided during all non-working hours.		
CY	CUBIC YARD	T	TRUCKS (PERCENT OF)	TYP	TYPICAL							TEMP						Traffic control devices shall be adjusted to fit field conditions as directed by the engineer.		
D	DEGREE OF CURVE	USH	UNITED STATES HIGHWAY	USH	UNITED STATES HIGHWAY							TYP						Bearings shown on the plan are true bearings.		
DHV	DESIGN HOUR VOLUME	VAR	VARIABLE	VPC	VERTICAL POINT OF CURVATURE							VAR						Do not drive or store equipment, or store construction materials in environmentally sensitive areas, wetlands or waterways.		
DIA	DIAMETER	VC	VERTICAL CURVE	VPI	VERTICAL POINT OF INTERSECTION							VPC								
ID	INSIDE DIAMETER	VPI	VERTICAL POINT OF TANGENCY	VPT	VERTICAL POINT OF TANGENCY							VPI								
INTERS	INTERSECTION	W	WEST	WB	WESTBOUND							VPT								
IH	INTERSTATE HIGHWAY											WB								
INV	INVERT																			
JT	JOINT																			
LT	LEFT																			
LHF	LEFT HAND FORWARD																			
L	LENGTH OF CURVE																			
LF	LINEAR FOOT																			
LC	LONG CHORD OF CURVE																			
RUNOFF COEFFICIENT TABLE												UTILITIES CONTACTS			GENERAL NOTES					
												VERNON COMMUNICATIONS COOPERATIVE			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.					
												COMMUNICATIONS			THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.					
												SCOTT FREDERICK			HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.					
												103 N MAIN ST			APPLY TACK COAT BETWEEN LAYERS OF HMA PAVEMENT AT A RATE OF 0.05 GAL/SY.					
												WESTBY, WI 54667			NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.					
												PHONE: (608) 632-0607			RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.					
												EMAIL: SFREDERICK@VERNONCOM.COOP			THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.					
												VERNON ELECTRIC COOPERATIVE			WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE, SUBBASE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.					
												ELECTRIC			THE CONTRACTOR SHALL PREPARE AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND SUBMIT THE PLAN TO WISDOT AND WDNR FOR REVIEW AT LEAST 14 DAYS PRIOR TO THE PRECONSTRUCTION CONFERENCE.					
												COLE CARY			EROSION CONTROL FEATURES, AS SHOWN IN THE PLANS, ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.					
												110 SAUGSTAD RD			BIODEGRADABLE NON-NETTED MATTING SHALL BE USED ALONG STREAM CORRIDORS.					
												WESTBY, WI 54667			SLOPES 2.5:1 OR STEEPER REQUIRE EROSION MAT.					
												PHONE: (608) 634-7472			CURVE DATA IS BASED ON THE ARC DEFINITION.					
												EMAIL: CCARY@VERNONELECTRIC.ORG			THE PROPOSED SHOULDER WIDTH SHOWN IN THE TYPICAL SECTIONS ARE MIN					



EXISTING TYPICAL SECTION

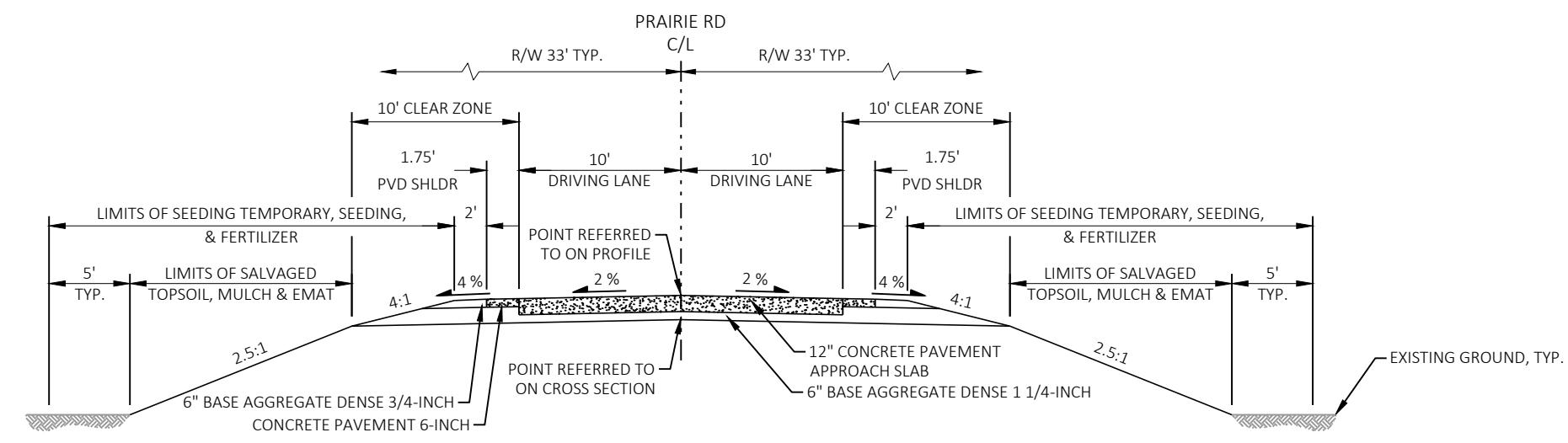
STA. 11+78.86 - STA. 13+21.76



PROPOSED TYPICAL SECTION

STA. 11+78.86 - STA. 12+09.21

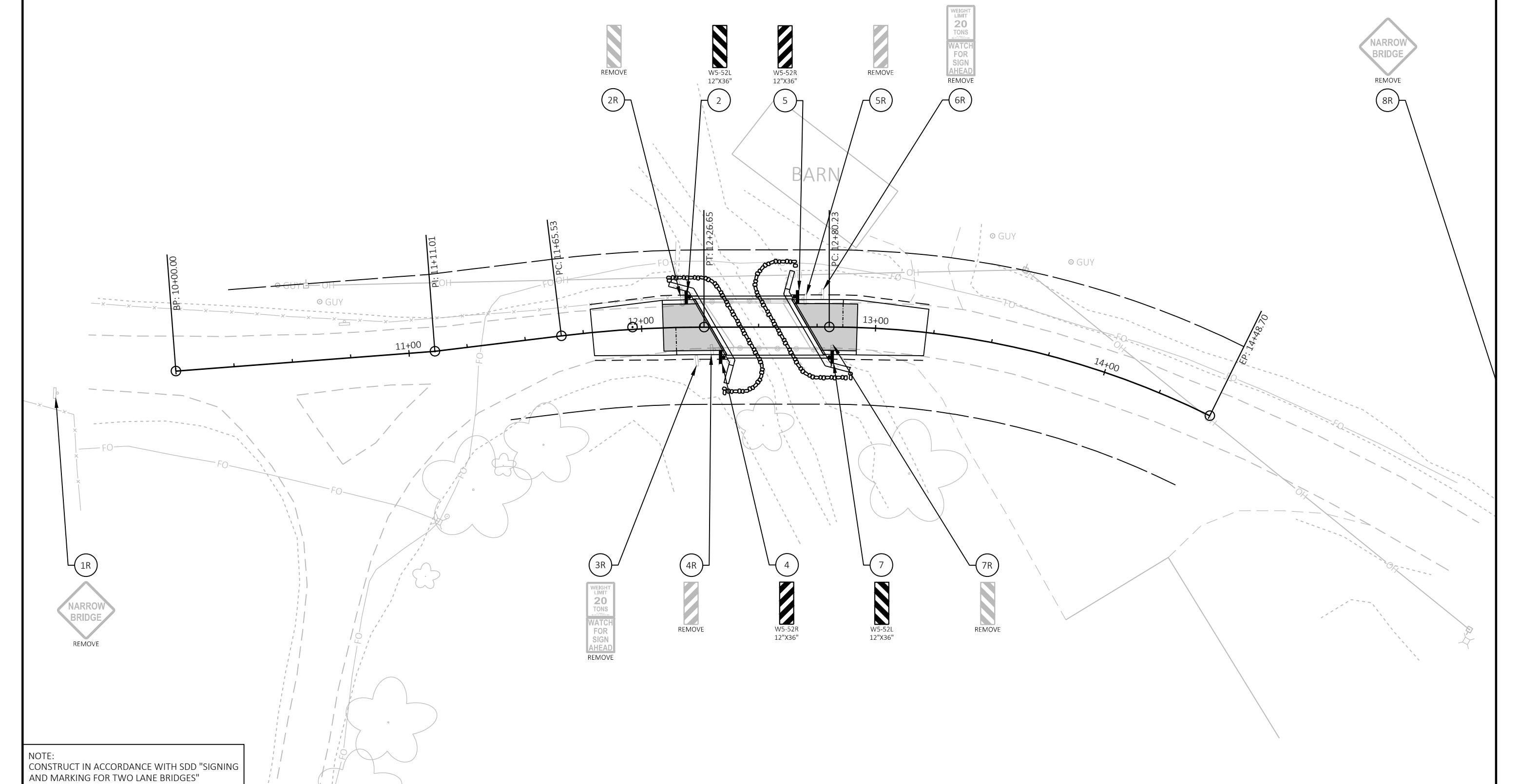
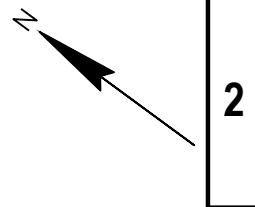
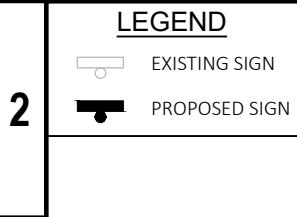
STA 12+92.08 - STA 13+21.76



CONCRETE APPROACH SLAB TYPICAL SECTION

STA 12+09.21 - STA 12+29.63

STA 12+70.98 - STA 12+92.08



NOTE:  
CONSTRUCT IN ACCORDANCE WITH SDD "SIGNING  
AND MARKING FOR TWO LANE BRIDGES"

PROJECT NO: 5405-00-70

HWY: PRAIRIE RD

COUNTY: VERNON

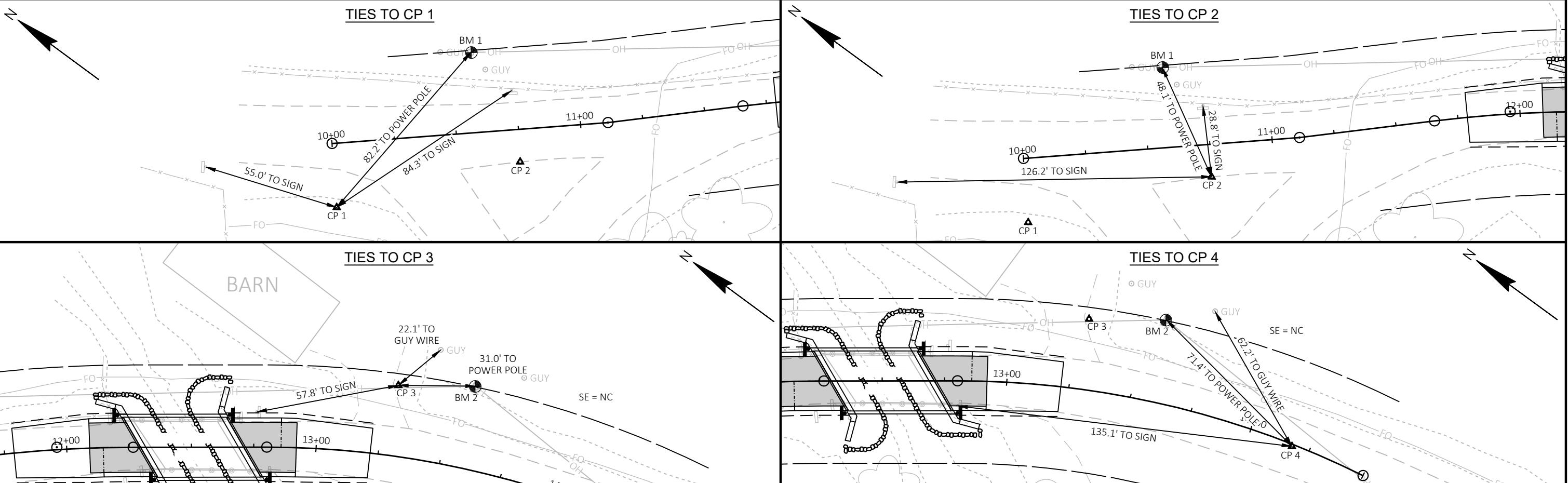
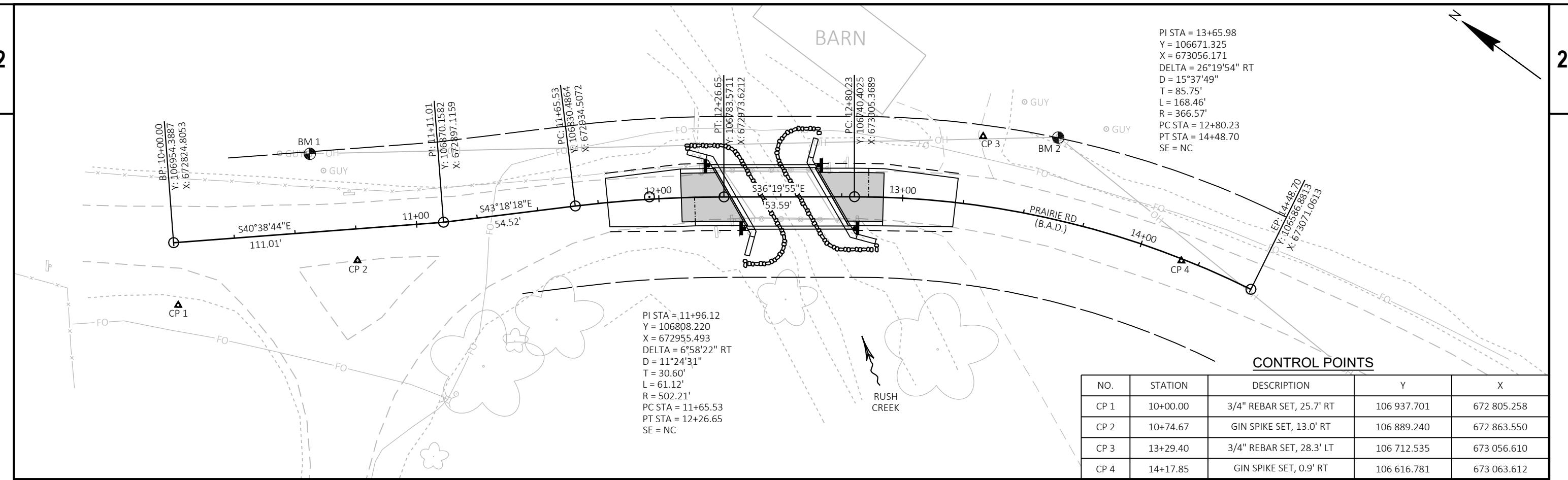
PERMANENT SIGNING

SHEET

4

2

2



PROJECT NO: 5405-00-70

HWY: PRAIRIE RD

COUNTY: VERNON

ALIGNMENT DETAILS AND CONTROL POINTS

SHEET 5

## Estimate Of Quantities

5405-00-70

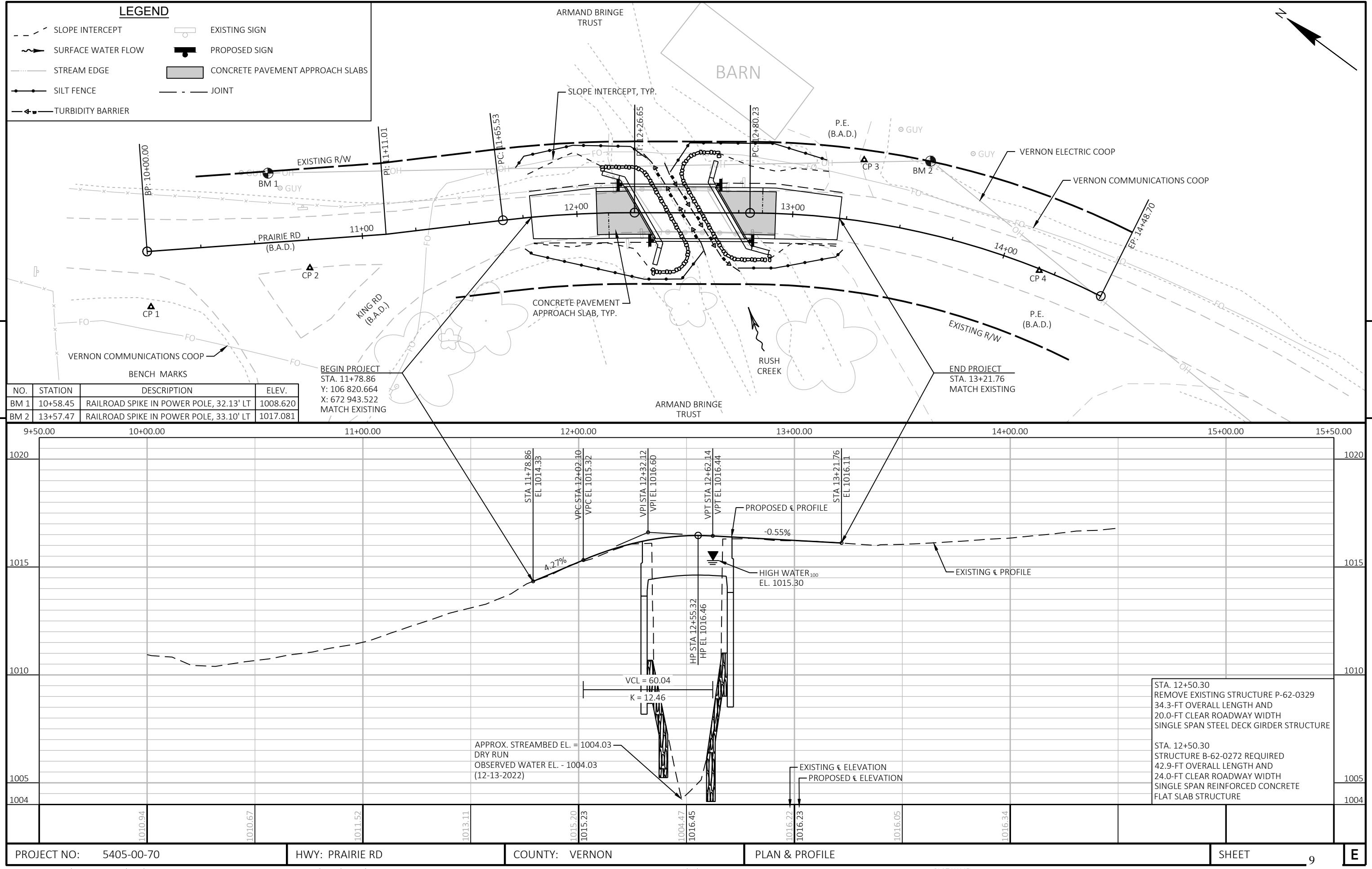
Line	Item	Item Description	Unit	Total	Qty
0002	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. P-62-329	EACH	1.000	1.000
0004	205.0100	Excavation Common	CY	135.000	135.000
0006	206.1001	Excavation for Structures Bridges (structure) 01. B-62-0272	EACH	1.000	1.000
0008	210.1500	Backfill Structure Type A	TON	300.000	300.000
0010	213.0100	Finishing Roadway (project) 01. 5405-00-70	EACH	1.000	1.000
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	20.000	20.000
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	220.000	220.000
0016	415.0060	Concrete Pavement 6-Inch	SY	14.000	14.000
0018	415.0410	Concrete Pavement Approach Slab	SY	93.000	93.000
0020	455.0605	Tack Coat	GAL	8.000	8.000
0022	465.0105	Asphaltic Surface	TON	34.000	34.000
0024	502.0100	Concrete Masonry Bridges	CY	149.000	149.000
0026	502.3200	Protective Surface Treatment	SY	121.000	121.000
0028	502.3210	Pigmented Surface Sealer	SY	42.000	42.000
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	4,600.000	4,600.000
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	22,240.000	22,240.000
0034	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000
0036	550.0020	Pre-Boring Rock or Consolidated Materials	LF	147.000	147.000
0038	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	210.000	210.000
0040	606.0300	Riprap Heavy	CY	130.000	130.000
0042	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000
0044	618.0100	Maintenance and Repair of Haul Roads (project) 01. 5405-00-70	EACH	1.000	1.000
0046	619.1000	Mobilization	EACH	1.000	1.000
0048	624.0100	Water	MGAL	2.400	2.400
0050	625.0500	Salvaged Topsoil	SY	90.000	90.000
0052	627.0200	Mulching	SY	65.000	65.000
0054	628.1504	Silt Fence	LF	360.000	360.000
0056	628.1520	Silt Fence Maintenance	LF	580.000	580.000
0058	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0060	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0062	628.2008	Erosion Mat Urban Class I Type B	SY	25.000	25.000
0064	628.6005	Turbidity Barriers	SY	180.000	180.000
0066	629.0210	Fertilizer Type B	CWT	0.250	0.250
0068	630.0130	Seeding Mixture No. 30	LB	16.000	16.000
0070	630.0200	Seeding Temporary	LB	10.000	10.000
0072	630.0500	Seed Water	MGAL	6.500	6.500
0074	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0076	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0078	638.2602	Removing Signs Type II	EACH	13.000	13.000
0080	638.3000	Removing Small Sign Supports	EACH	10.000	10.000
0082	642.5001	Field Office Type B	EACH	1.000	1.000
0084	643.0420	Traffic Control Barricades Type III	DAY	1,633.000	1,633.000
0086	643.0705	Traffic Control Warning Lights Type A	DAY	3,266.000	3,266.000
0088	643.0900	Traffic Control Signs	DAY	1,278.000	1,278.000
0090	643.5000	Traffic Control	EACH	1.000	1.000
0092	645.0111	Geotextile Type DF Schedule A	SY	68.000	68.000
0094	645.0120	Geotextile Type HR	SY	200.000	200.000
0096	650.4500	Construction Staking Subgrade	LF	100.000	100.000
0098	650.5000	Construction Staking Base	LF	100.000	100.000

## Estimate Of Quantities

5405-00-70

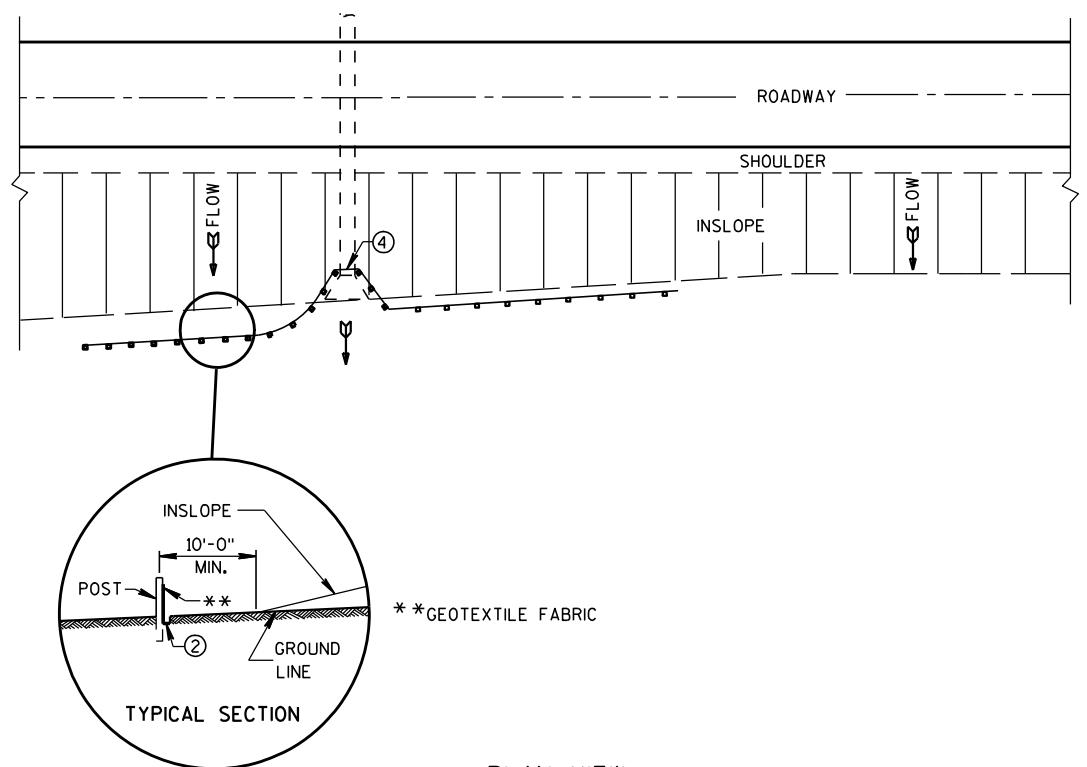
Line	Item	Item Description	Unit	Total	Qty
0100	650.6501	Construction Staking Structure Layout (structure) 01. B-62-0272	EACH	1.000	1.000
0102	650.9911	Construction Staking Supplemental Control (project) 01. 5405-00-70	EACH	1.000	1.000
0104	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000
0106	715.0502	Incentive Strength Concrete Structures	DOL	894.000	894.000
0108	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000

DIVISION	FROM/TO STATION	205.0100 EXCAVATION COMMON (1)	CUT (2)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (3)	AVAILABLE MATERIAL (4)	UNEXPANDED FILL	EXPANDED FILL (5)	FACTOR 1.25	MASS ORDINATE +/- (6)	WASTE (7)	BASE AGGREGATE DENSE						CONCRETE PAVEMENT					
		305.0110 BASE AGGREGATE DENSE 3/4-INCH									305.0120 BASE AGGREGATE DENSE 1 1/4-INCH	624.0100 WATER MGAL	415.0060 CONCRETE PAVEMENT 6-INCH SLAB	415.0410 CONCRETE PAVEMENT APPROACH SLAB	415.0060 CONCRETE PAVEMENT 6-INCH SLAB	415.0410 CONCRETE PAVEMENT APPROACH SLAB	415.0060 CONCRETE PAVEMENT 6-INCH SLAB	415.0410 CONCRETE PAVEMENT APPROACH SLAB				
DIVISION 1																						
WEST APPROACH	11+78.86/12+35.21	61	---	---	61	39	49	12	12													
DIVISION 1 SUBTOTAL		61	---	---	61	39	49	12	12													
DIVISION 2																						
EAST APPROACH	12+65.41/13+21.76	74	---	---	74	5	6	68	68													
DIVISION 2 SUBTOTAL		74	---	---	74	5	6	68	68													
GRAND TOTAL		135	---	---	135	44	55	80	80													
<p>NOTES:</p> <p>(1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100</p> <p>(2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.</p> <p>(3) SALVAGED/UNUSABLE PAVEMENT MATERIAL</p> <p>(4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL</p> <p>(5) EXPANDED FILL FACTOR = 1.25</p> <p>(6) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.</p> <p>(7) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.</p>																						
<p><u>ASPHALTIC SURFACE</u></p> <p>455.0605 TACK COAT GAL</p> <p>465.0105 ASPHALTIC SURFACE TON</p>																						
11+79	-	12+29	WEST APPROACH	10	110	1.2																
12+72	-	13+22	EAST APPROACH	10	110	1.2																
			TOTAL	20	220	2.4																
<p><u>MOBILIZATIONS EROSION CONTROL</u></p> <p>628.1905 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH</p> <p>628.1910 MOBILIZATIONS EROSION CONTROL EACH</p>																						
11+79	-	12+29	WEST APPROACH	4	17																	
12+72	-	13+22	EAST APPROACH	4	17																	
			TOTAL	8	34																	
<p><u>FINISHING ITEMS</u></p> <p>625.0500 SALVAGED TOPSOIL SY</p> <p>627.0200 MULCHING SY</p> <p>628.2008 EROSION MAT URBAN CLASS I TYPE B SY</p> <p>629.0210 FERTILIZER TYPE B CWT</p> <p>630.0130 SEEDING MIXTURE NO. 30 LB</p> <p>630.0200 SEEDING TEMPORARY LB</p> <p>630.0500 SEED WATER MGAL</p>																						
11+79	-	12+29	WEST APPROACH, LT	66	132																	
11+79	-	12+29	WEST APPROACH, RT	92	184																	
12+72	-	13+22	EAST APPROACH, LT	81	162																	
12+72	-	13+22	EAST APPROACH, RT	51	102																	
			UNDISTRIBUTED	70	---																	
			TOTAL	360	580																	
<p><u>TRAFFIC CONTROL</u></p> <p>643.0420 TRAFFIC CONTROL WARNING LIGHTS TYPE A NO. DAY</p> <p>643.0705 TRAFFIC CONTROL LIGHTS TYPE A NO. DAY</p> <p>643.0900 TRAFFIC CONTROL SIGNS NO. DAY</p> <p>643.5000 TRAFFIC CONTROL SIGNS NO. DAY</p>																						
11+79	-	12+29	WEST APPROACH, LT	27	16	11	0.05	4	2	1.6												
11+79	-	12+29	WEST APPROACH, RT	16	16	---	0.04	3	2	1.1												
11+79	-	12+29	EAST APPROACH, LT	18	10	9	0.06	4	3	1.8												
12+72	-	13+22	EAST APPROACH, RT	9	9	---	0.02	2	1	0.6												
			UNDISTRIBUTED	20	14	5	0.08	3	2	1.4												
			TOTAL	90	65	25	0.25	16	10	6.5												
<p><u>PERMANENT SIGNING</u></p> <p>634.0612 4X6-INCH X SIGNS TYPE II REMOVING SMALL SIGN SUPPORTS</p> <p>637.2230 12-FT REFLECTIVE F SIGNS TYPE II</p> <p>638.2602 12 FT SIGNS TYPE II</p> <p>638.3000 REMOVING SMALL SIGN SUPPORTS</p>																						
11+79	-	12+29	WEST APPROACH, LT	1R	R12-55	---	1	1			20 TON BRIDGE 1.2 MILES AHEAD											
11+79	-	12+29	WEST APPROACH, RT	2R	W5-2	---	1	1			NARROW BRIDGE											
12+18	-	WEST APPROACH, LT	3R	R12-1	---	---	2	1			WEIGHT LIMIT 20 TONS & WATCH FOR SIGN AHEAD											
12+21	-	WEST APPROACH, LT	4	W5-52L	1	3	---	---			BRIDGE HASH MARKS											
12+25	-	WEST APPROACH, RT	4R	W5-52L	---	---	1	1			BRIDGE HASH MARKS											
12+31	-	WEST APPROACH, RT	5R	W5-52R	---	---	1	1			BRIDGE HASH MARKS											
12+35	-	WEST APPROACH, RT	5	W5-52R	1	3	---	---			BRIDGE HASH MARKS											
12+65	-	EAST APPROACH, LT	6	W5-52R	1	3	---	---			BRIDGE HASH MARKS											
12+69	-	EAST APPROACH, LT	6R	W5-52R	---	---	1	1			BRIDGE HASH MARKS											
12+76	-	EAST APPROACH, LT	7R	R12-1	---	---	2	1			WEIGHT LIMIT 20 TONS & SIGN											
12+80	-	EAST APPROACH, RT	8R	W5-52L	---	---	1	1			BRIDGE HASH MARKS											
12+80	-	EAST APPROACH, RT	8	W5-52L	1	3	---	---			BRIDGE HASH MARKS											
---	-	EAST APPROACH, RT	9R	W5-2	---	---	1	1			NARROW BRIDGE											
---	-	EAST APPROACH, RT	10R	R12-55	---	---	2	1			20 TON BRIDGE 1 MILES AHEAD & WATCH FOR SIGN AHEAD											
			TOTAL	4	12	13	10															
<p><u>CONSTRUCTION STAKING</u></p> <p>650.4500 CONSTRUCTION STAKING STRUCTURE LAYOUT</p> <p>650.5000 CONSTRUCTION STAKING SUBGRADE</p> <p>650.6501.01 CONSTRUCTION STAKING (STRUCTURE)</p> <p>650.9911.01 CONSTRUCTION STAKING (PROJECT)</p> <p>650.9920 CONSTRUCTION STAKING STAKES</p>																						
11+79	-	12+29	WEST APPROACH	50	50	---	---</td															

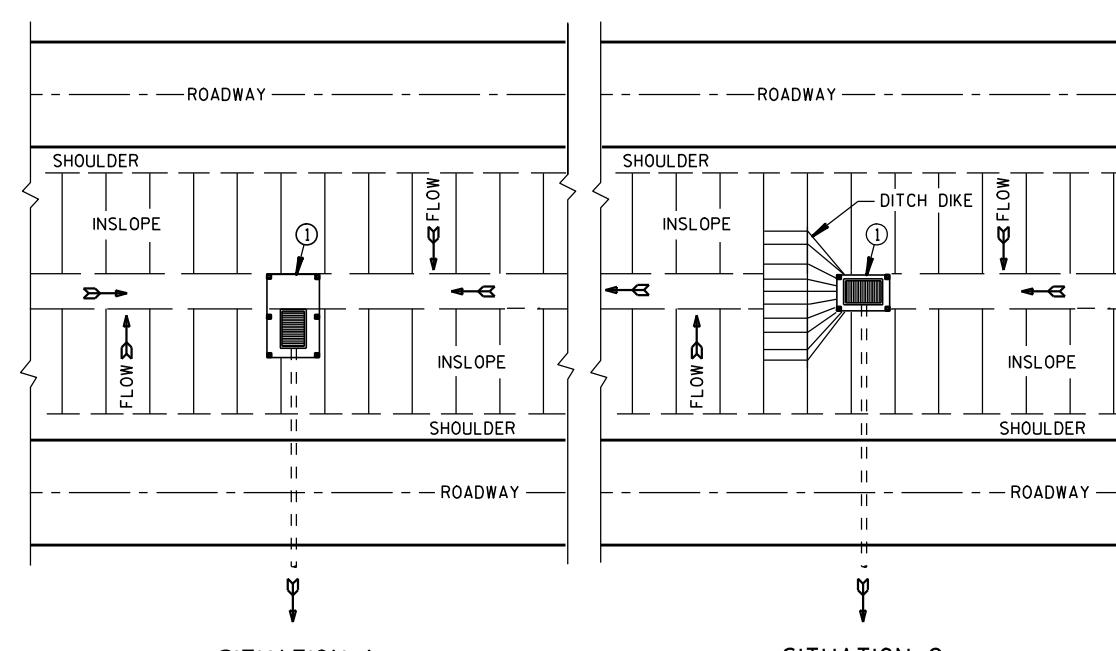


## Standard Detail Drawing List

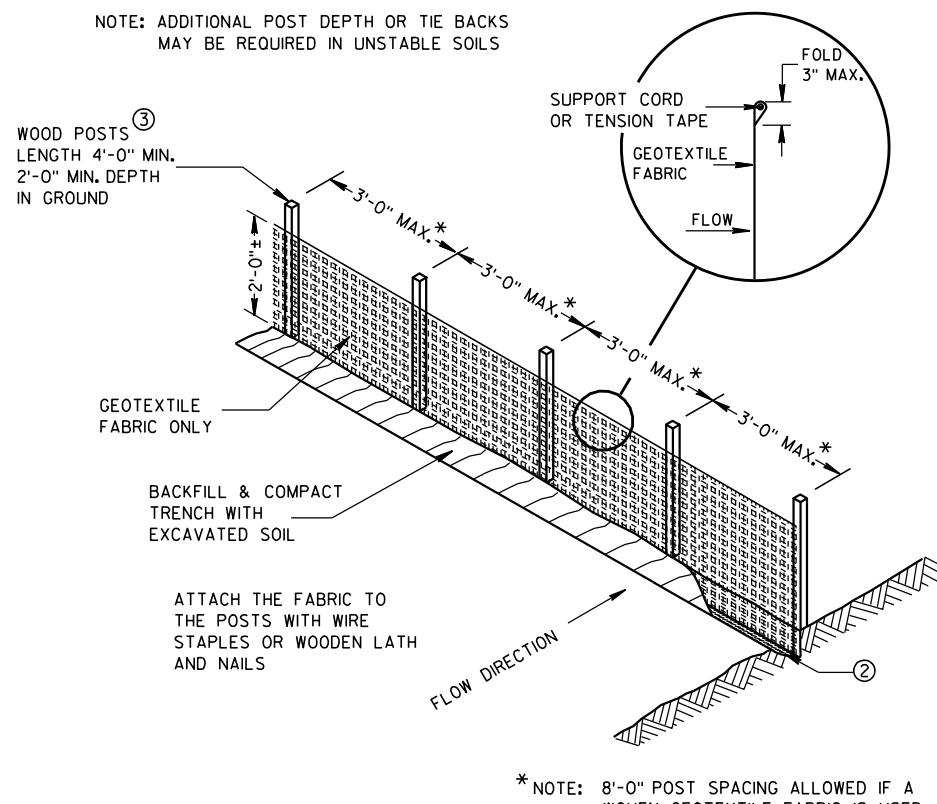
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C19-03	HMA LONGITUDINAL JOINTS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS



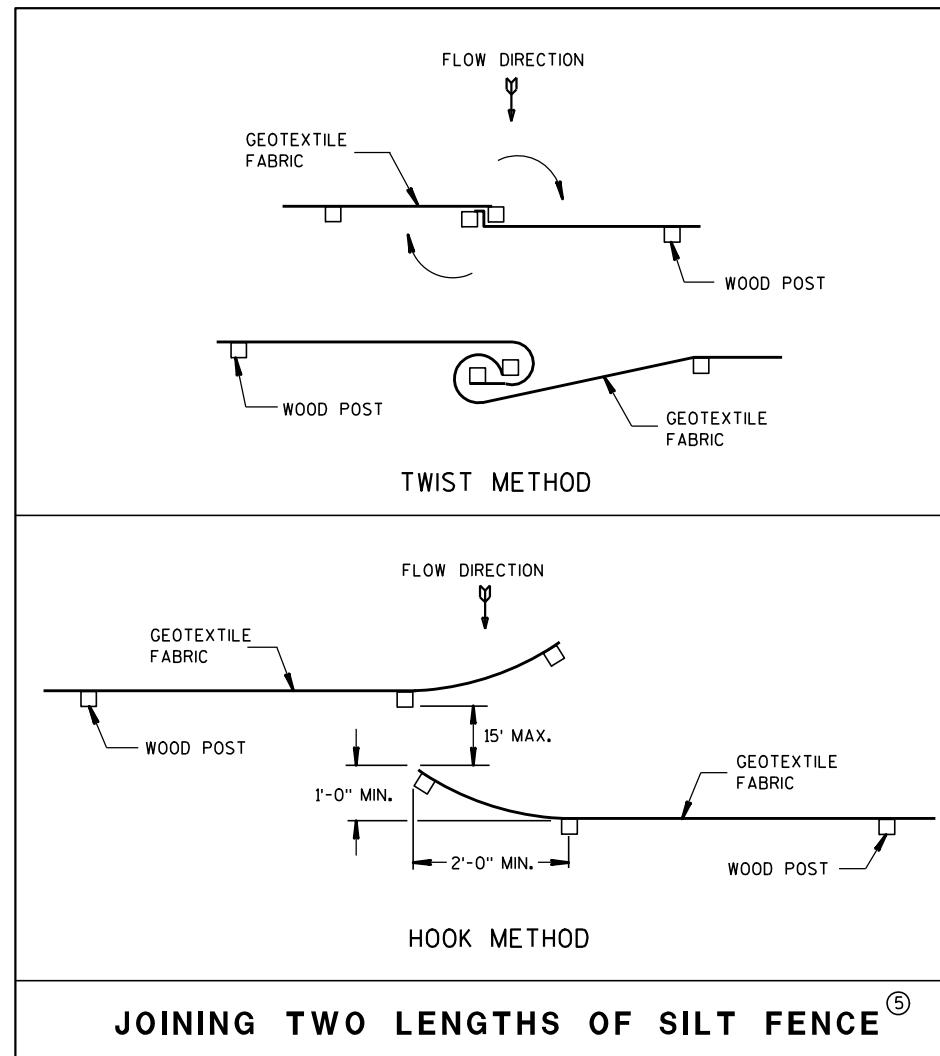
PLAN VIEW  
TYPICAL APPLICATION OF SILT FENCE



### SILT FENCE AT MEDIAN SURFACE DRAINS



SILT FENCE

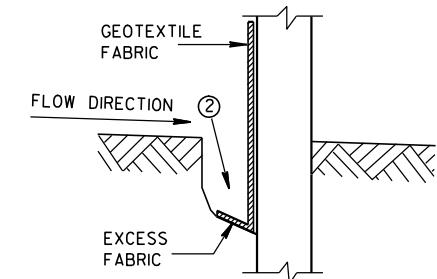


JOINING TWO LENGTHS OF SILT FENCE<sup>⑤</sup>

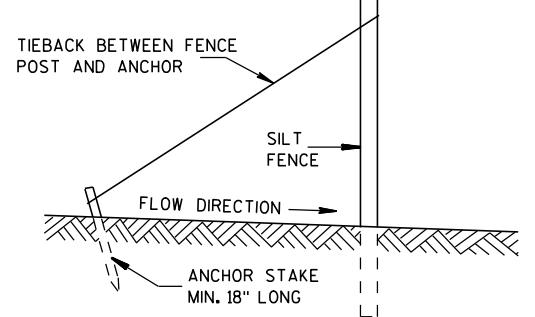
### GENERAL NOTES

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 1/8" X 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

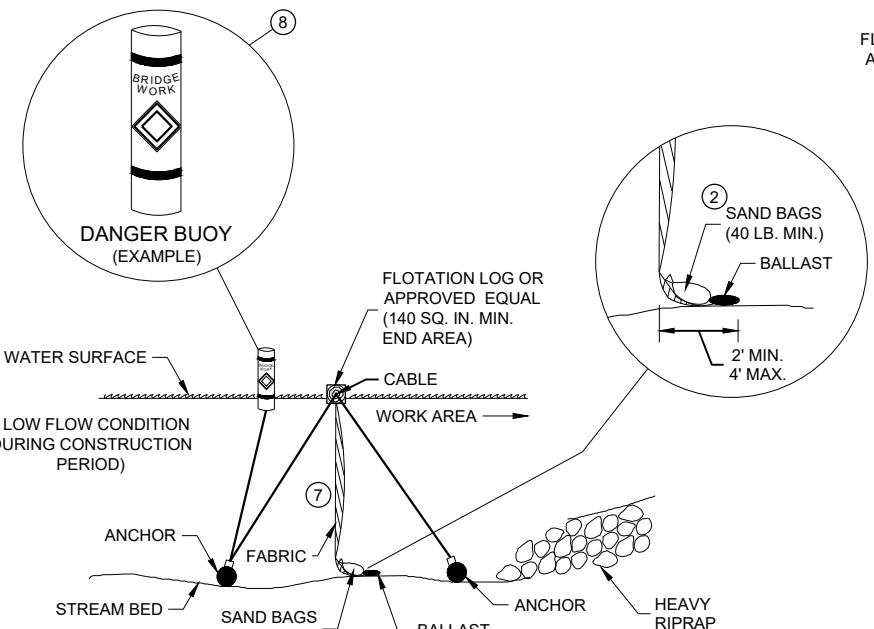


TRENCH DETAIL

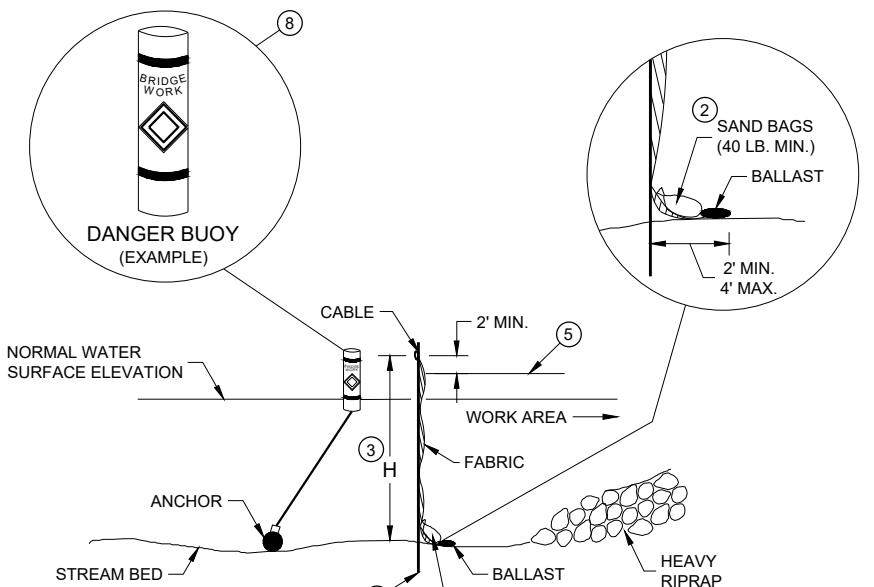


SILT FENCE TIE BACK  
(WHEN REQUIRED BY THE ENGINEER)

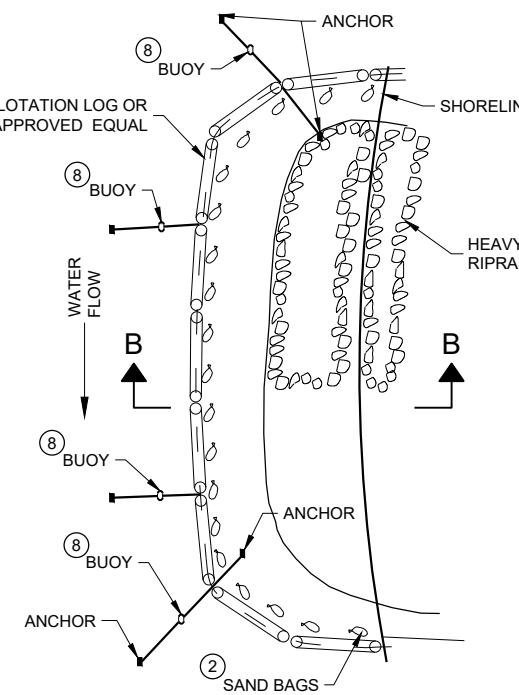
SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	/S/ Beth Cannon
4-29-05	DATE
CHIEF ROADWAY DEVELOPER	
FHWA	



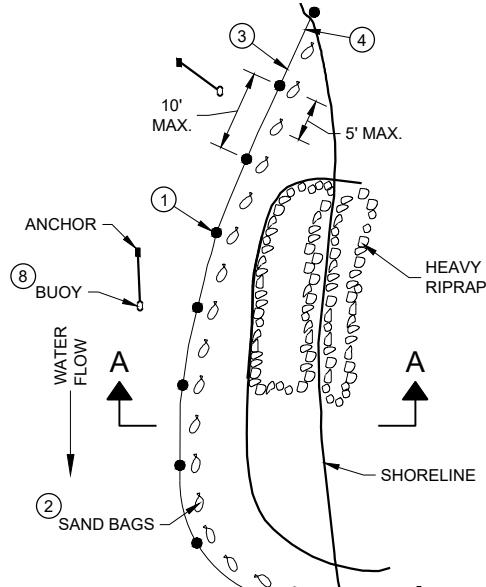
SECTION B - B

**TURBIDITY BARRIER - FLOAT ALTERNATIVE  
CAUTION - SEE NOTE 6**


SECTION A - A

**TURBIDITY BARRIER - STANDARD POST INSTALLATION**
**TURBIDITY BARRIER PLACEMENT DETAILS**


PLAN VIEW



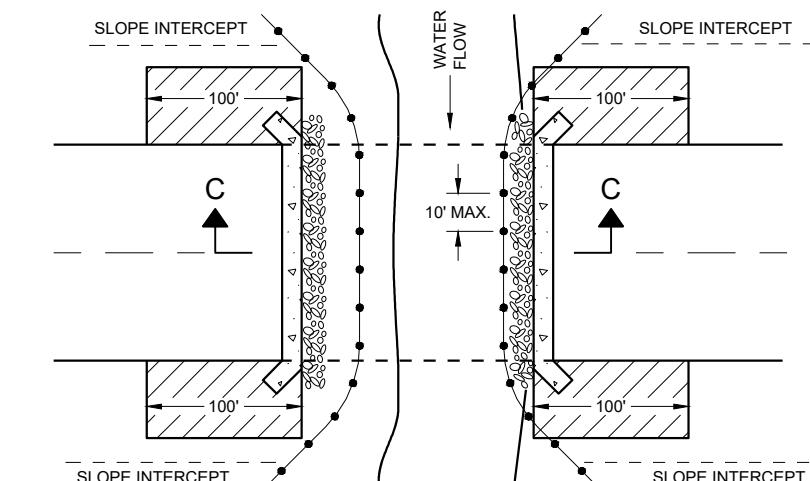
PLAN VIEW

**GENERAL NOTES**

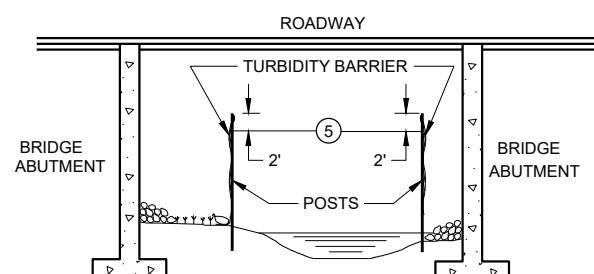
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

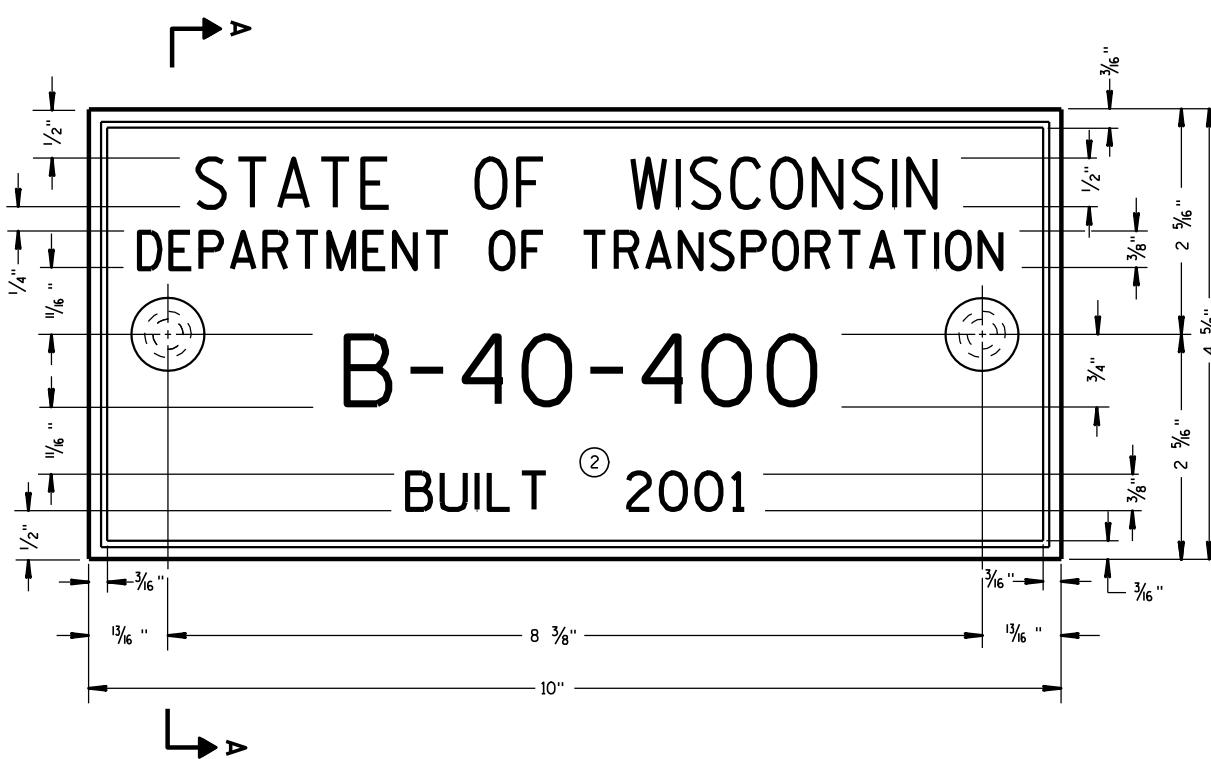


SECTION C - C

**TURBIDITY BARRIER DETAIL SHOWING  
TYPICAL PLACEMENT AT STRUCTURES**
**TURBIDITY BARRIER**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
6/4/02 /S/ Beth Cannestra  
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER  
FHWA 12



## **TYPICAL NAME PLATE**

## (BRIDGES, CULVERTS, AND RETAINING WALLS)

6

6

## **NUMBERING DESIGNATION MULTI-UNIT STRUCTURES**

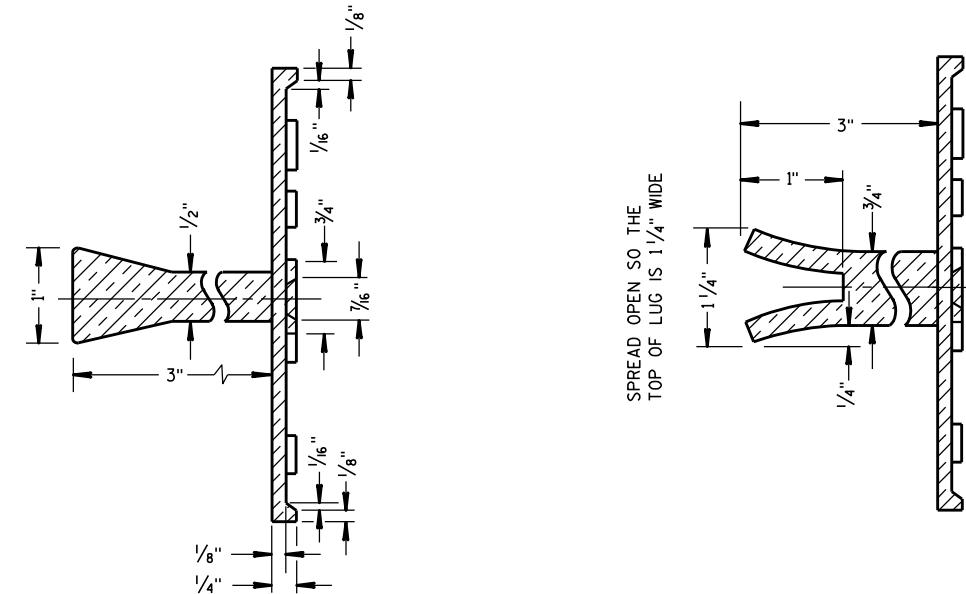
S D D 19 A 3-16

## 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.

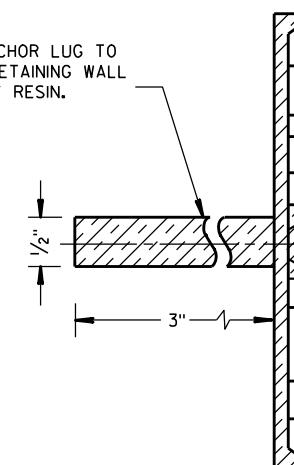
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- ① EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ② REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



**SECTION A-A**

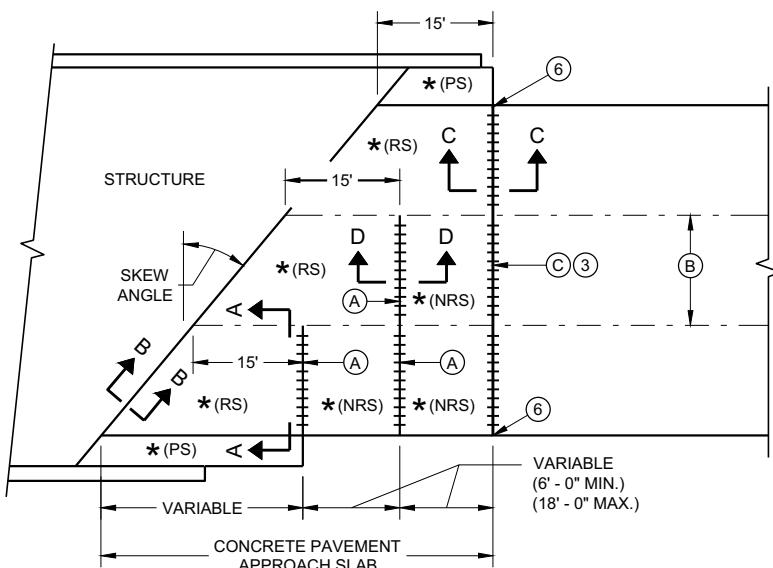
## ALTERNATE LUG



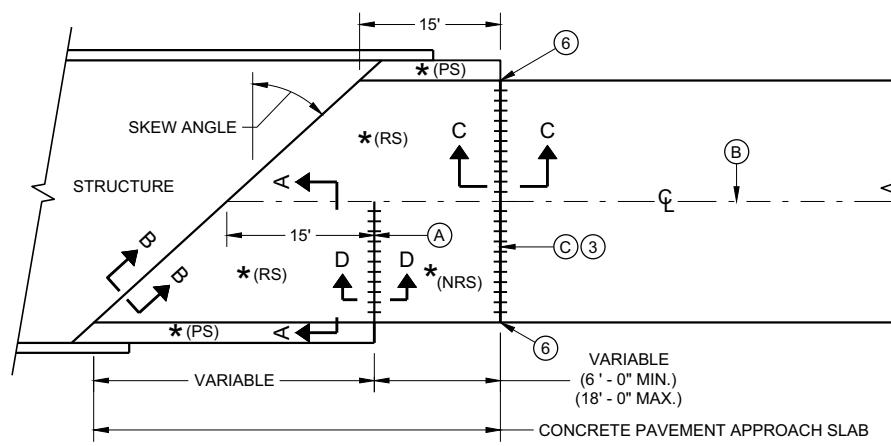
## ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

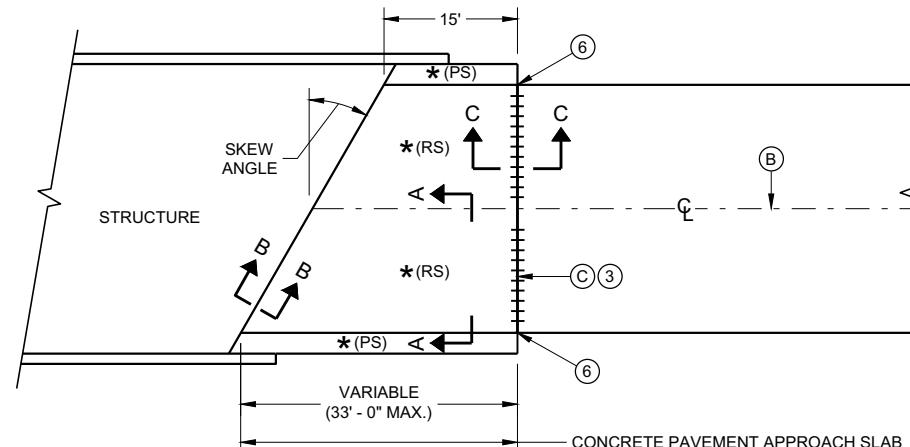
<b>NAME PLATE (STRUCTURES)</b>	
<b>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</b>	
<b>APPROVED</b>	
<u>3/26/10</u> <u>DATE</u>	<u>/s/ Scot Beck --</u> <b>CHIEF STRUCTURAL DEVELOP<sup>ER</sup> 13</b>
<b>FWHA</b>	



## SKEWED APPROACH (PAVEMENT MORE THAN TWO LANES)



**SKEWS > 20°  
(PAVEMENT WIDTH ≤ 30')**



**SKEWS  $\leq 20^\circ$   
(PAVEMENT WIDTH  $\leq 30'$ )**

## APPROACH SLAB AND ADJACENT PAVEMENT

- ★ (RS) = REINFORCED CONCRETE SLAB
- ★ (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB
- ★ (NRS) - NON - REINFORCED CONCRETE SLAB

\*\*\* STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)

## GENERAL NOTES

THE CONTRACTOR MAY SPLIC NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLIC PER BAR. THE LENGTH OF LAP IS 20 INCHES.

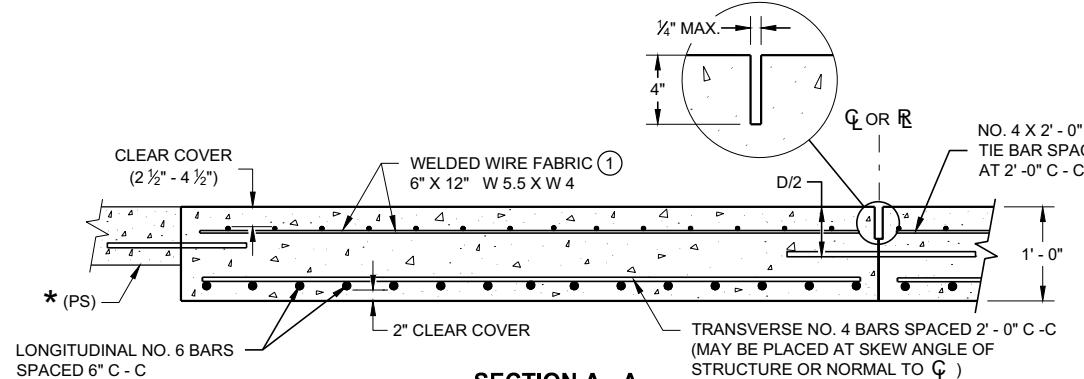
TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

- ① THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0" C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.
- ② THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.
- ③ DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
- ④ USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 4152.6.
- ⑤ PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.
- ⑥ EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

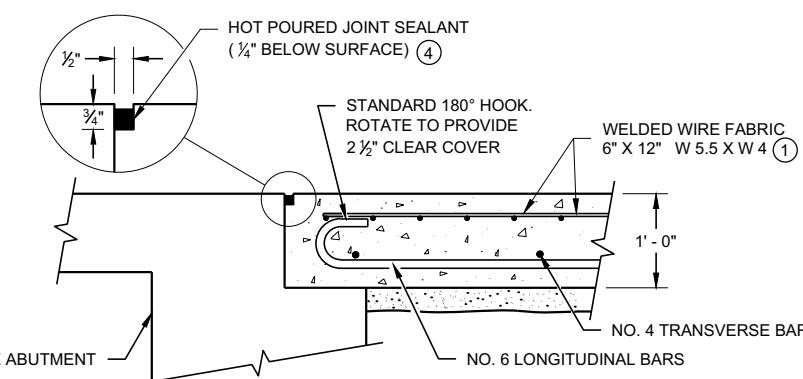
(A) STANDARD CONTRACTION JOINT NORMAL TO C OR R.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

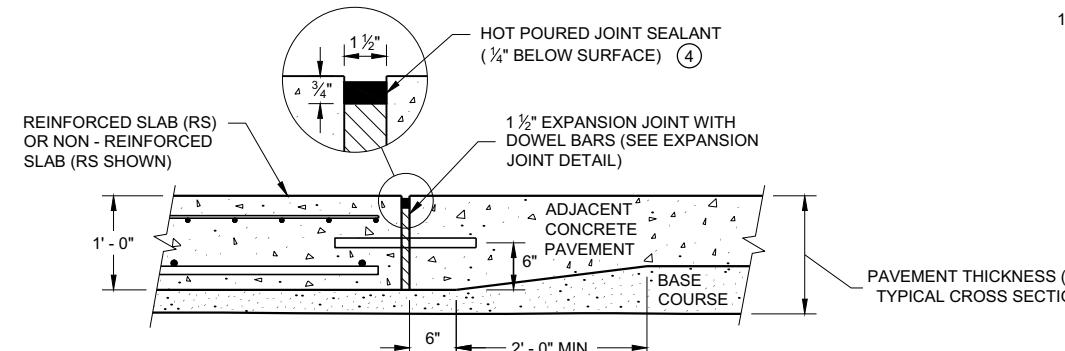
(C) 1 1/2" EXPANSION JOINT WITH DOWEL BARS NORMAL TO C OR R.



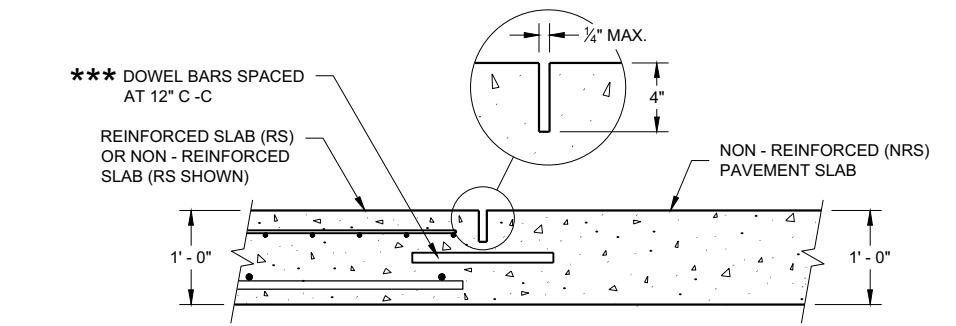
**SECTION A - A**  
**REINFORCEMENT POSITIONING DETAIL**



**SECTION B - B  
BEND DETAIL  
BOTTOM REINFORCEMENT**

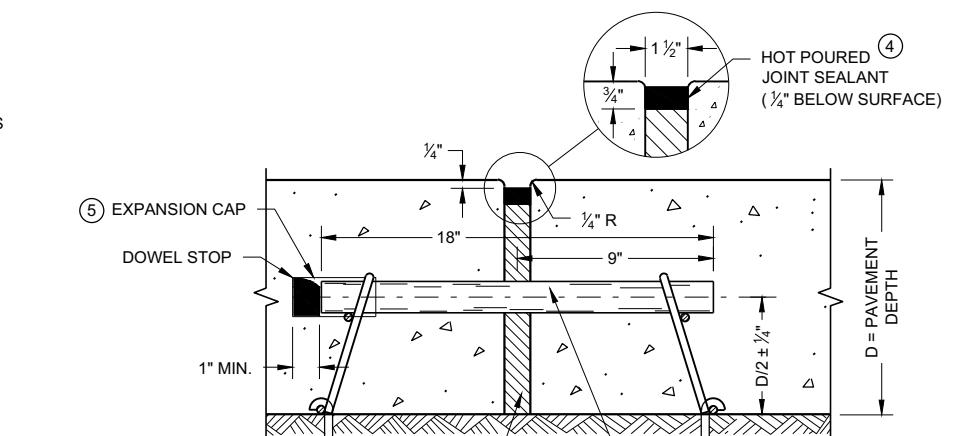


**SECTION C - C  
TRANSITION DETAIL  
APPROACH SLAB TO ADJACENT PAVEMENT**



## SECTION D - D

### CONTRACTION JOINT



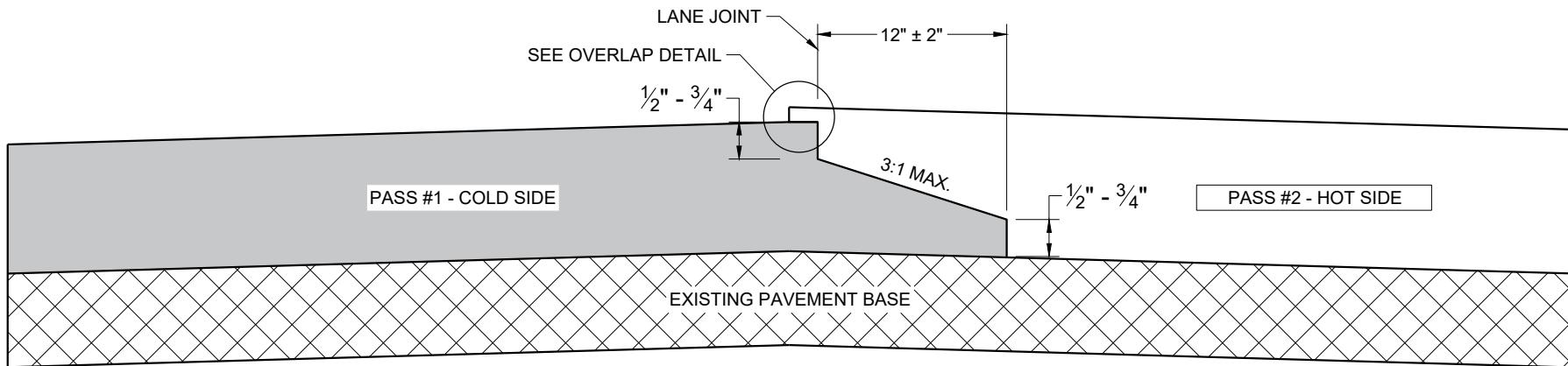
## INT FILLER

### EXPANSION JOINT DETAIL

## **CONCRETE PAVEMENT APPROACH SLAB**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
ember 2018 \_\_\_\_\_ /S/ Peter Kemp, P.E.  
DATE PAVEMENT SUPERVIS 14



**TYPICAL PAVEMENT CROSS SECTION  
NOTCHED WEDGE JOINT**

**GENERAL NOTES**

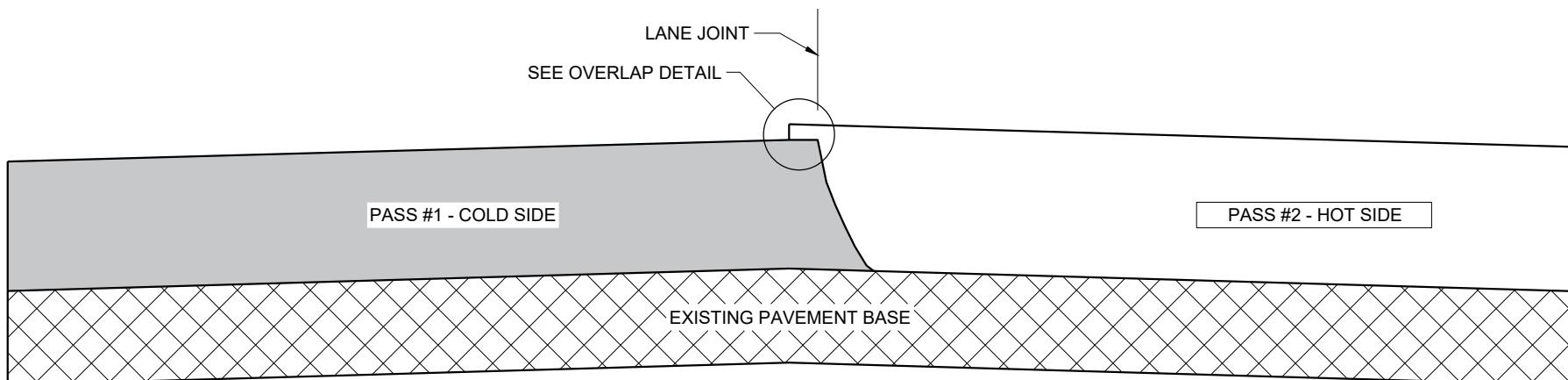
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY  $1'' \pm 0.5''$  AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY  $0.1''$  AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

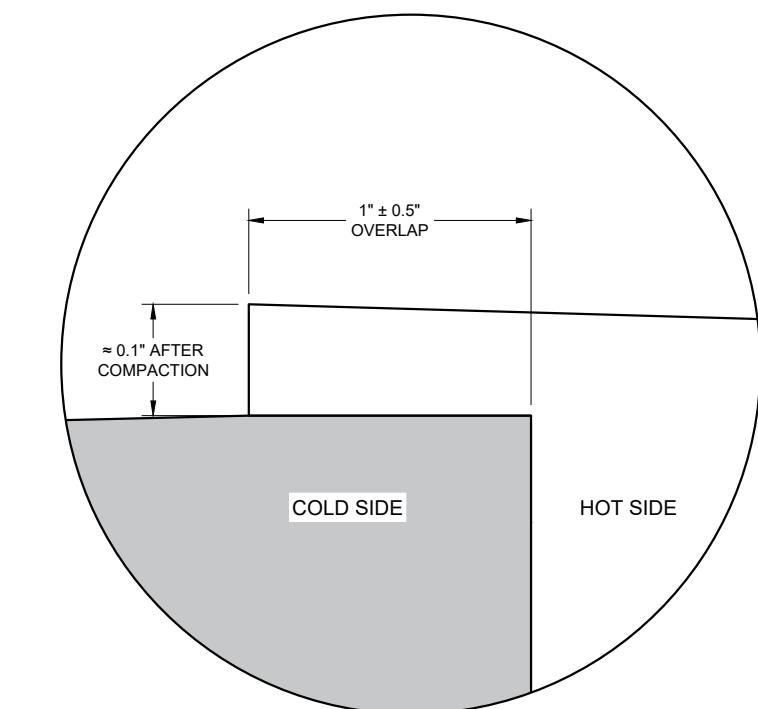
ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO  $2''$  FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

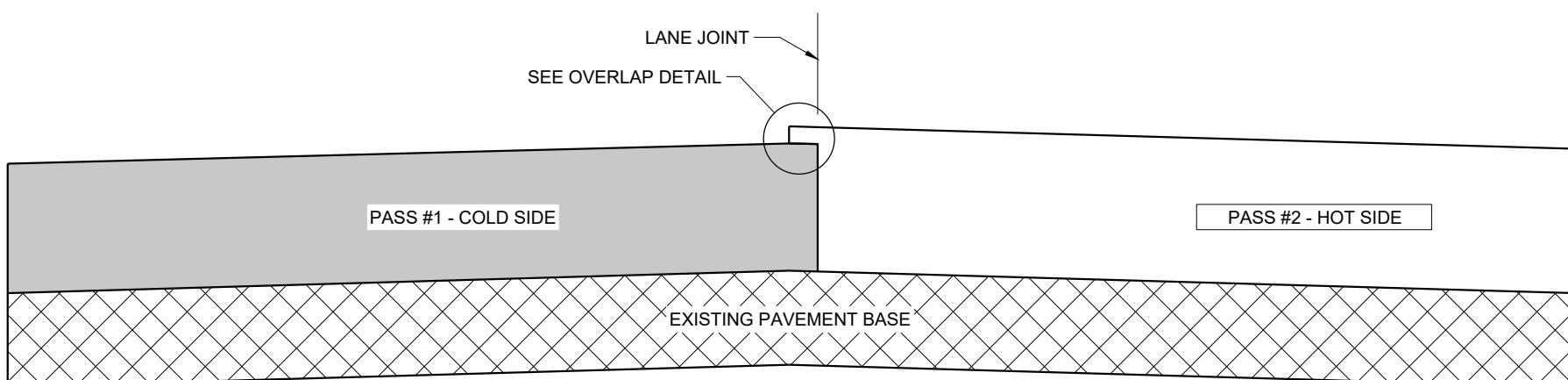
USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR AS THE ENGINEER DIRECTS.



**TYPICAL PAVEMENT CROSS SECTION  
VERTICAL JOINT**



**OVERLAP DETAIL (TYPICAL)**



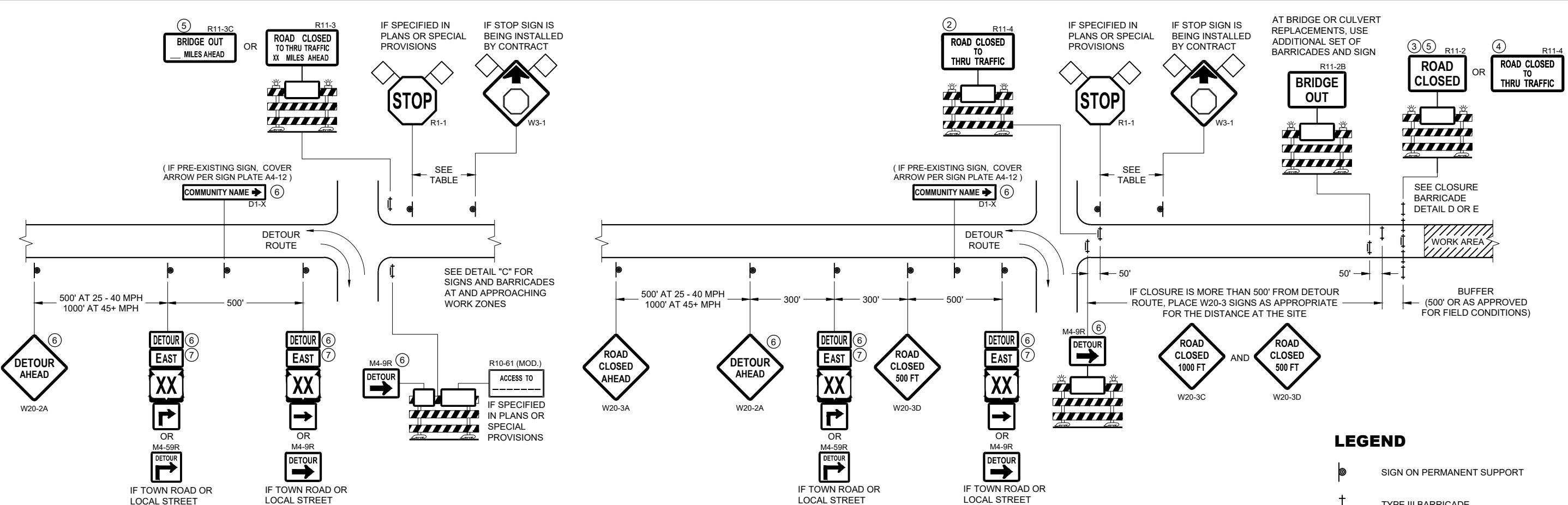
**TYPICAL PAVEMENT CROSS SECTION  
VERTICAL JOINT (MILLED)**

**HMA LONGITUDINAL JOINTS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
November 2020 /S/ Steven Hefel  
DATE  
FHWA

HMA PAVEMENT ENGIN 15



### DETAIL A MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO  $\frac{1}{2}$  MILE FROM  
DETOUR ROUTE (1000 FEET IF URBAN)

### DETAIL B MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN  $\frac{1}{2}$  MILE FROM  
DETOUR ROUTE (1000 FEET IF URBAN)

### LEGEND

- SIGN ON PERMANENT SUPPORT
- + TYPE III BARRICADE
- || TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)



WORK AREA



FLAGS, 16" X 16" MIN. (ORANGE)



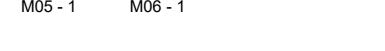
AT BRIDGE OR CULVERT REPLACEMENTS, USE  
ADDITIONAL SET OF BARRICADES AND SIGN



BRIDGE OUT



ROAD CLOSED  
TO THRU TRAFFIC



ROAD CLOSED  
AHEAD



DETOUR



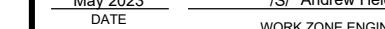
EAST



XX



COUNTY X



M05 - 1



M06 - 1

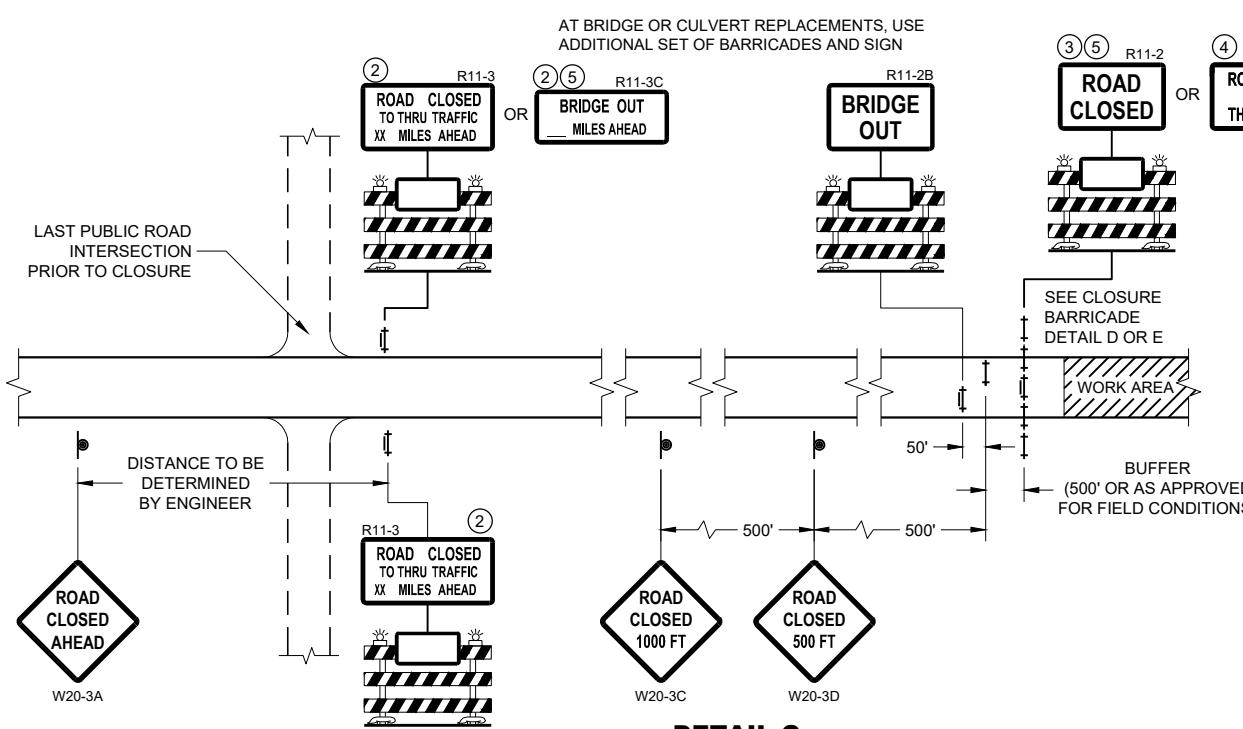
SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"  
FOR GENERAL NOTES  
AND FOOTNOTES ① THROUGH ⑦

### BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2023 /S/ Andrew Heidke  
DATE  
FHWA  
WORK ZONE ENGINEER 16



### DETAIL C MAINLINE CLOSURE, NO POSTED DETOUR

## 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)

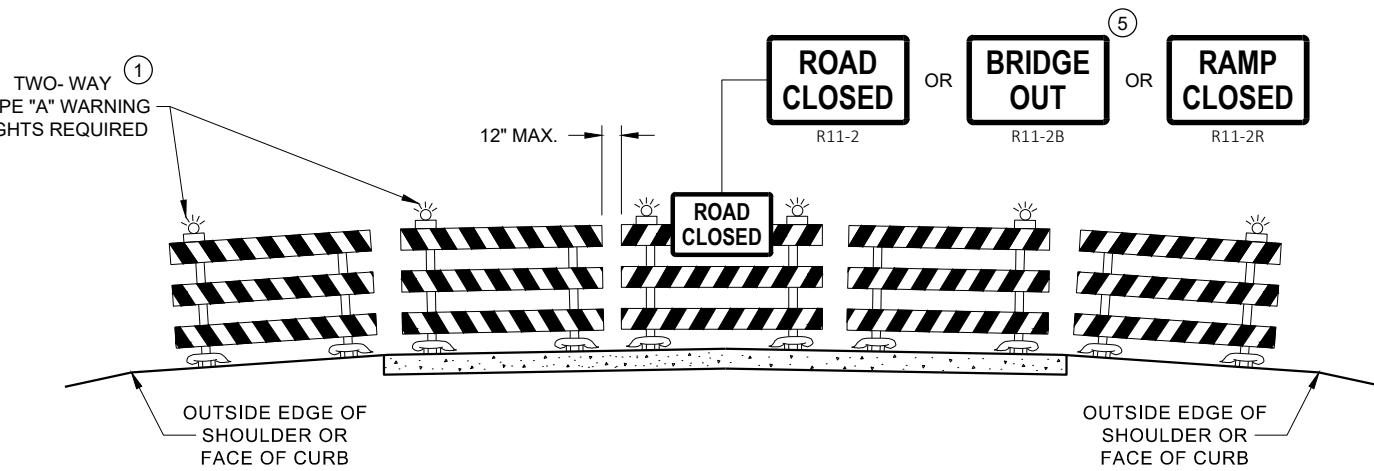
M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

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

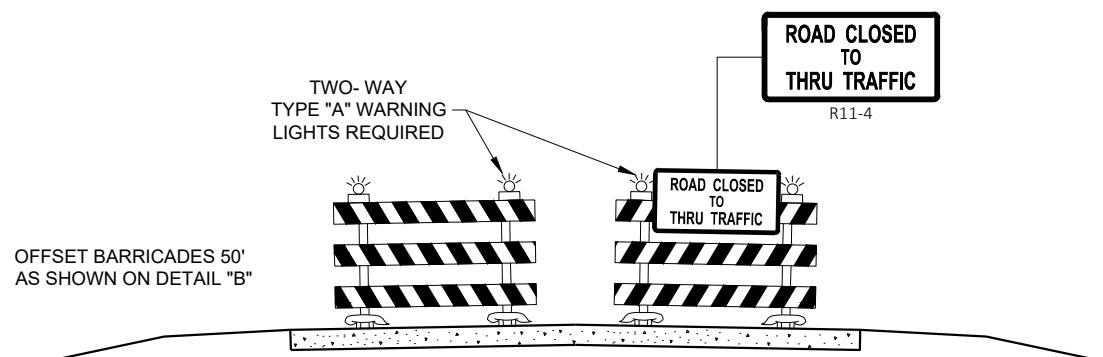
M05 - 1 AND M06 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"



**DETAIL D**  
**ROAD CLOSURE BARRICADE DETAIL**  
**APPROACH VIEW**



**DETAIL E**  
**LANE CLOSURE BARRICADE DETAIL**  
**APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

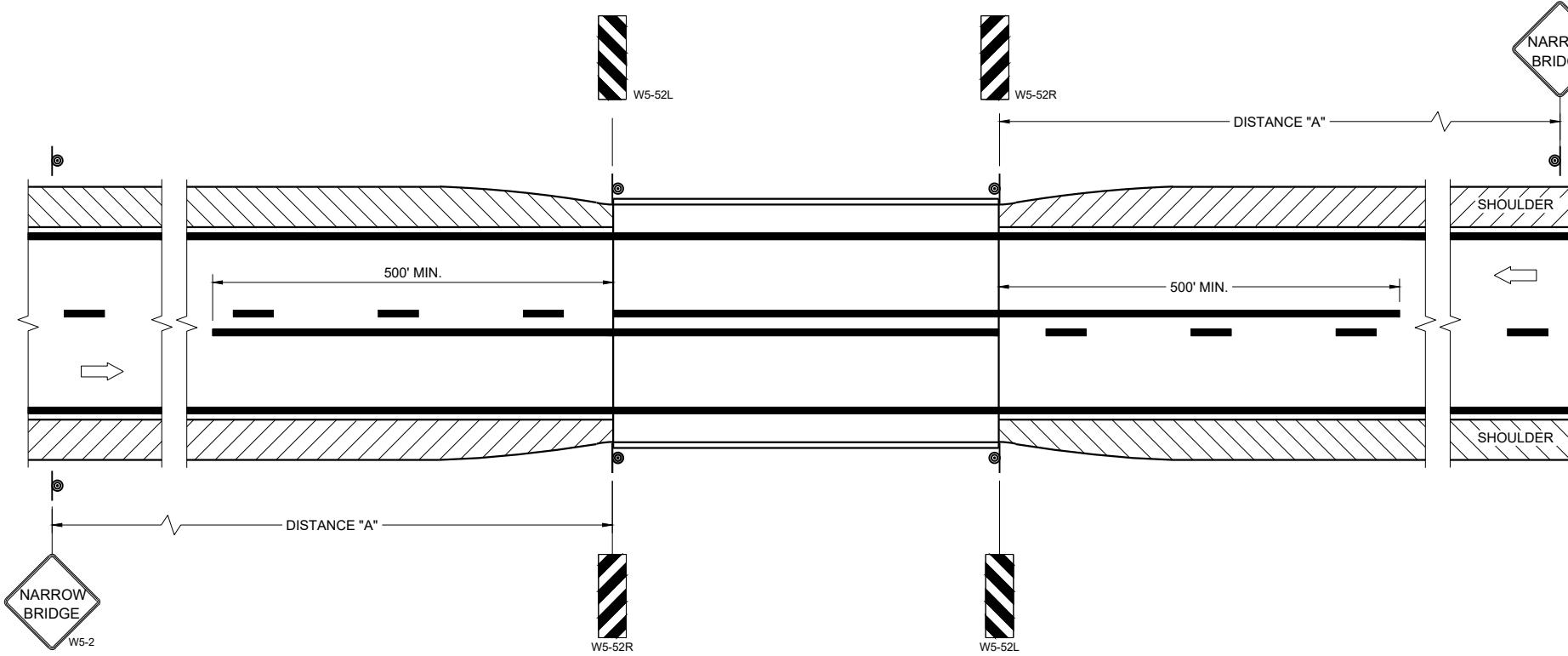
- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE 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

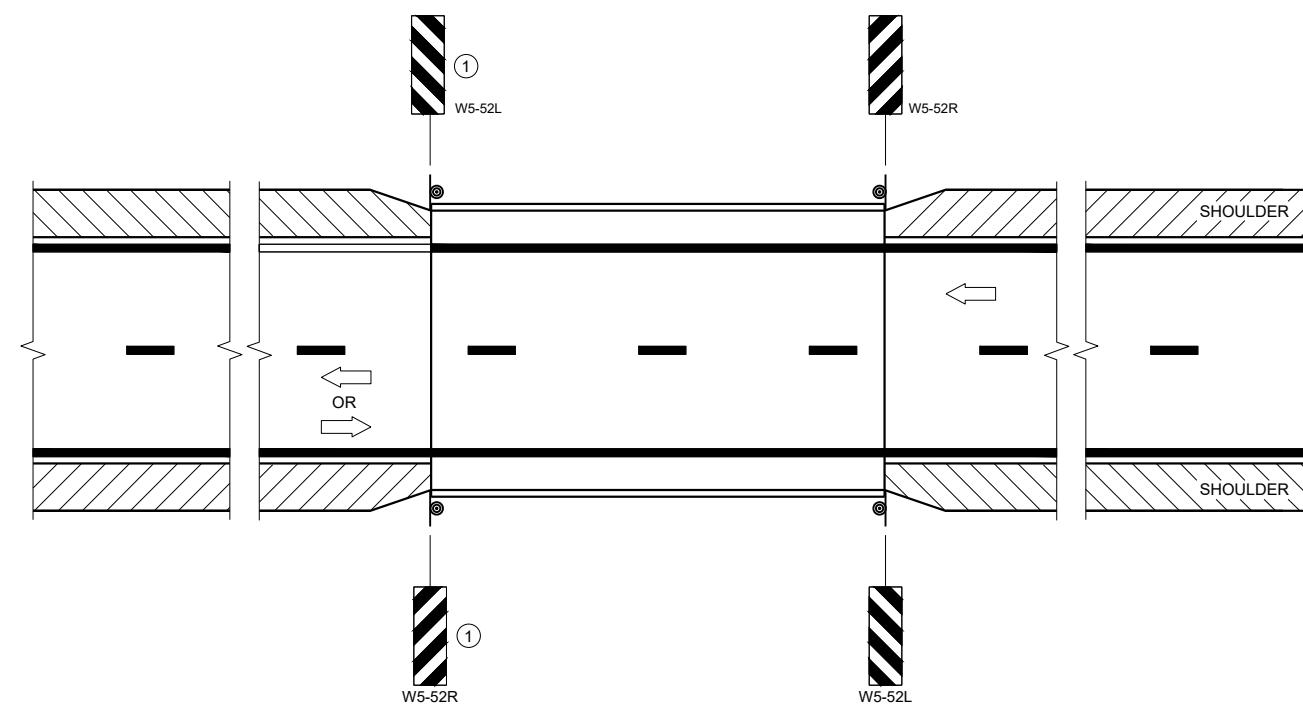
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2023  
DATE  
FHWA

/S/ Andrew Heidke  
WORK ZONE ENGINEER 17

**SITUATION 1**

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

**SITUATION 2**

WARRANTING CRITERIA:  
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 W-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

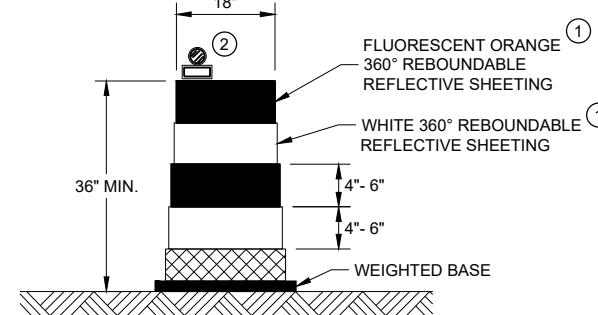
**DISTANCE TABLE**

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

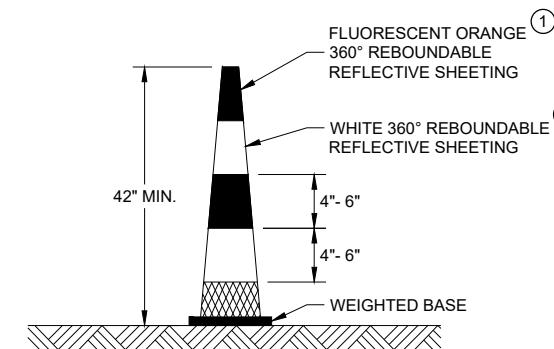
**SIGNING AND MARKING  
FOR TWO LANE BRIDGES**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

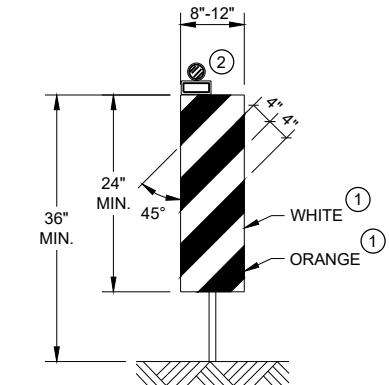
**DRUM**

BALLAST WIDTHS  
RANGE FROM 24"-36"

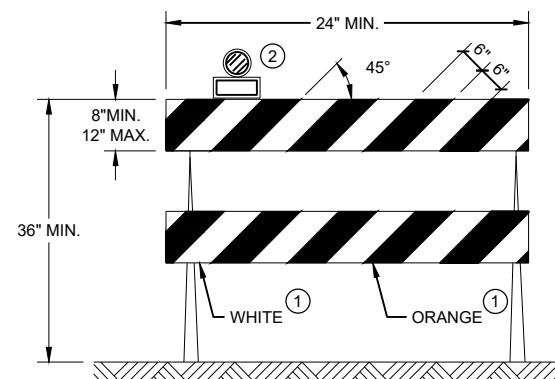
**42" CONE**

DO NOT USE IN TAPERS  
 $\frac{1}{2}$  SPACING OF DRUMS

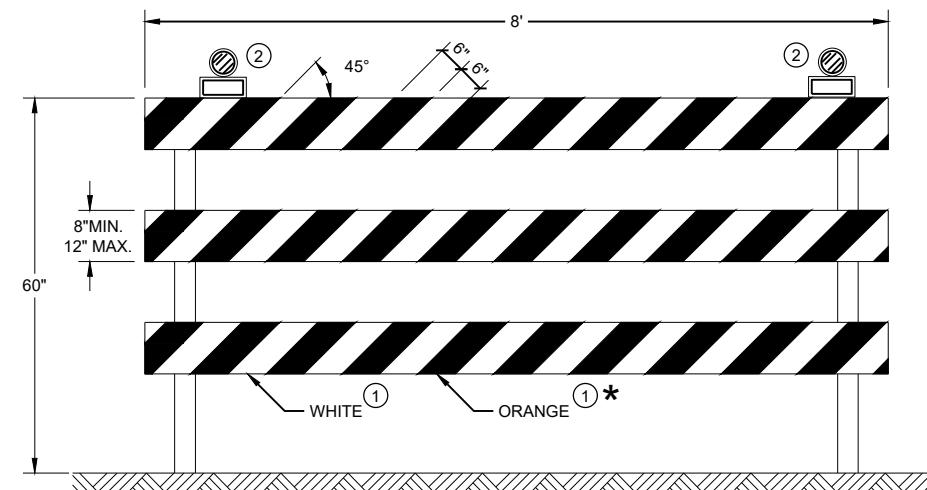
BALLAST WIDTHS  
RANGE FROM 14"-20"

**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.

**GENERAL NOTES**

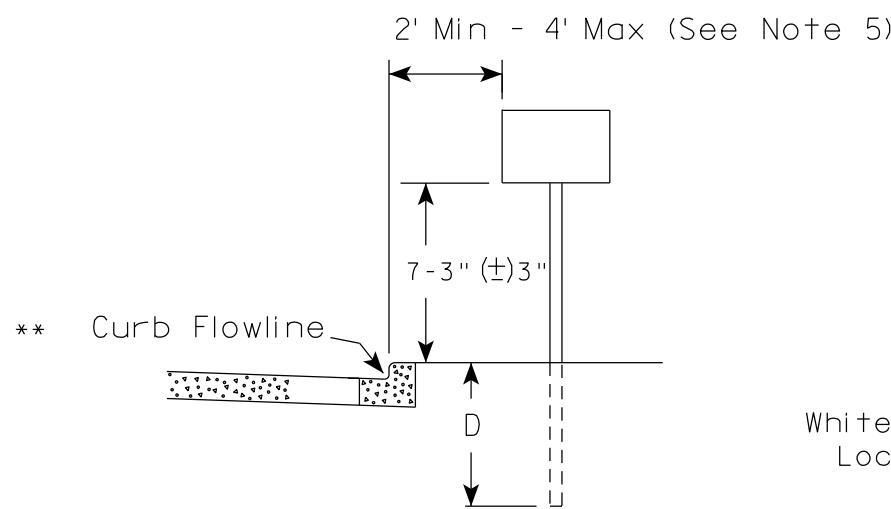
- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

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

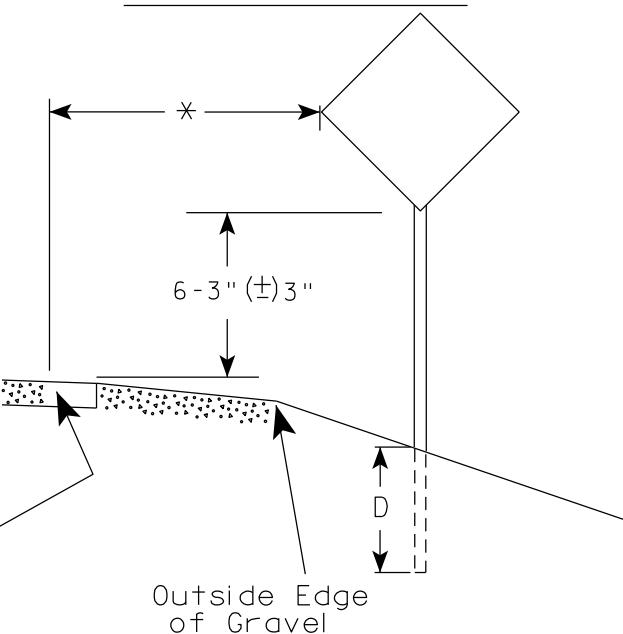
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
November 2022 /S/ Andrew Heidtke  
DATE FHWA  
WORK ZONE ENGINEER 19

## URBAN AREA



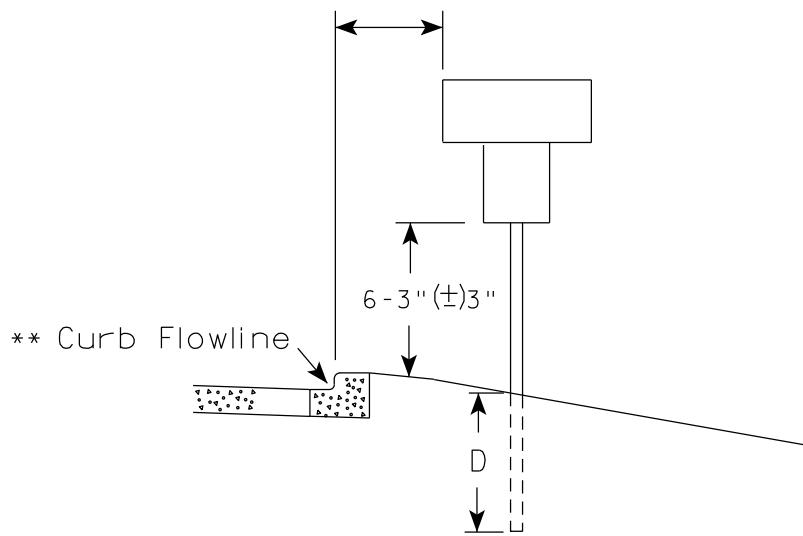
## RURAL AREA (See Note 2)



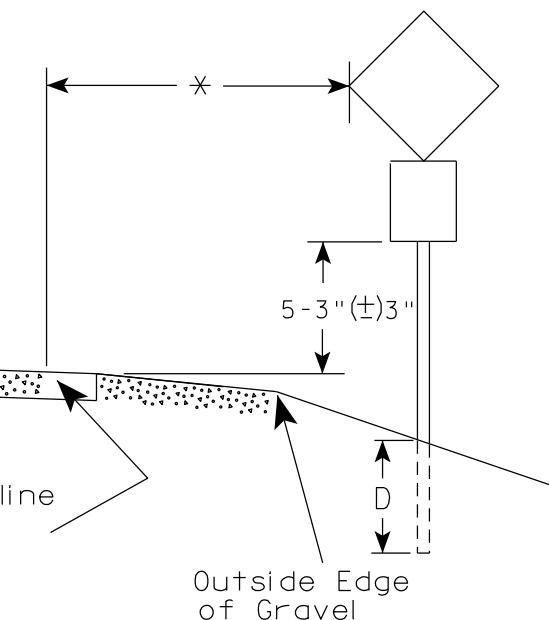
### GENERAL NOTES

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.
3. 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".
4. For expressways and freeways, mounting height is 7'-3" (\pm) 3" or 6'-3" (\pm) 3" depending upon existence of a sub-sign.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'-3" (\pm) 3".
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.

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



White Edgeline Location



\*\* 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.

### POST EMBEDMENT DEPTH

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

\* 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.

TYPICAL INSTALLATION  
OF PERMANENT TYPE II  
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew P. Rauch*  
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

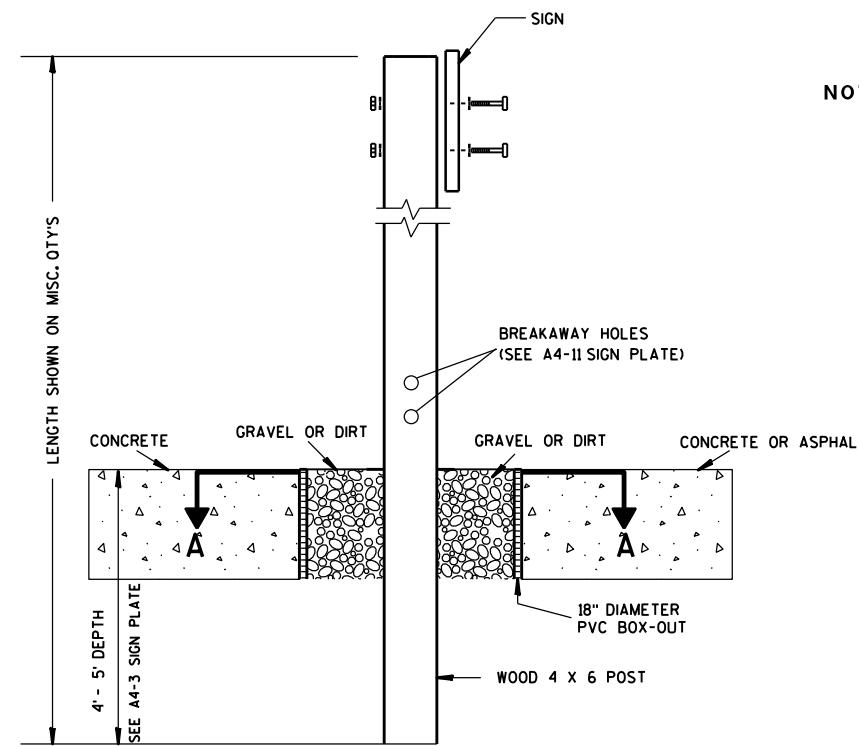
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 20

E

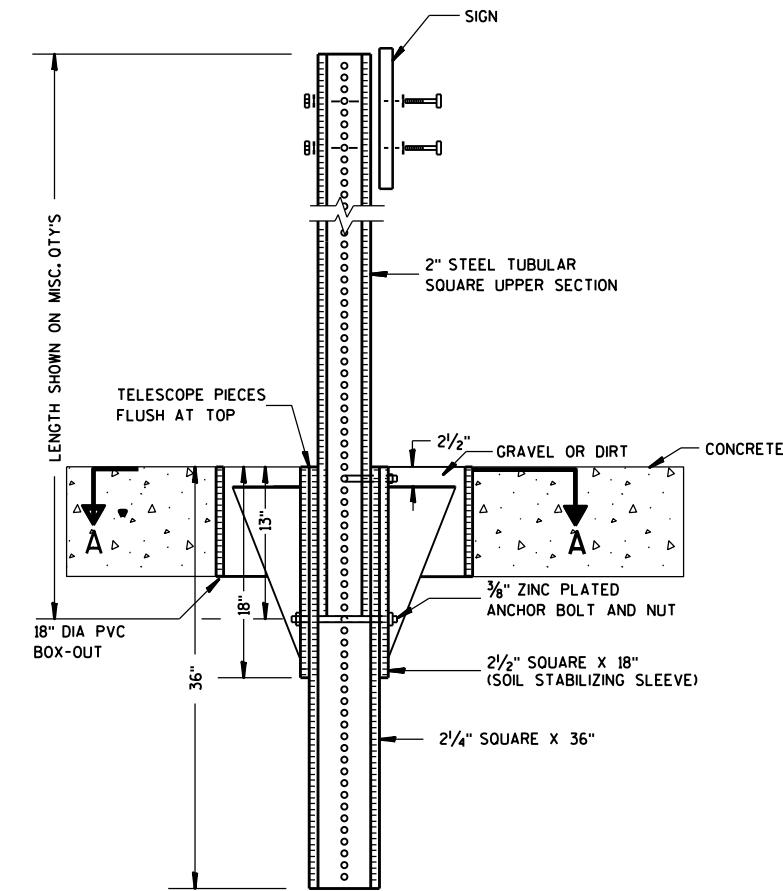


ELEVATION VIEW

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

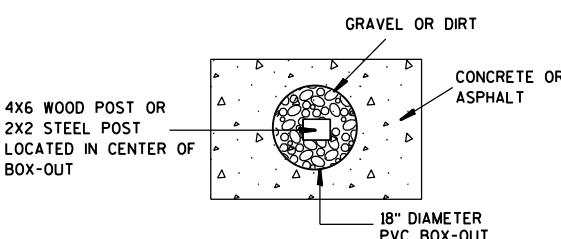
NOTES:

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST  
BOX-OUTS  
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED  
*Matthew P. Rauch*  
for State Traffic Engineer  
DATE 1/27/14 PLATF 21 A4-3B.1

PROJECT NO:

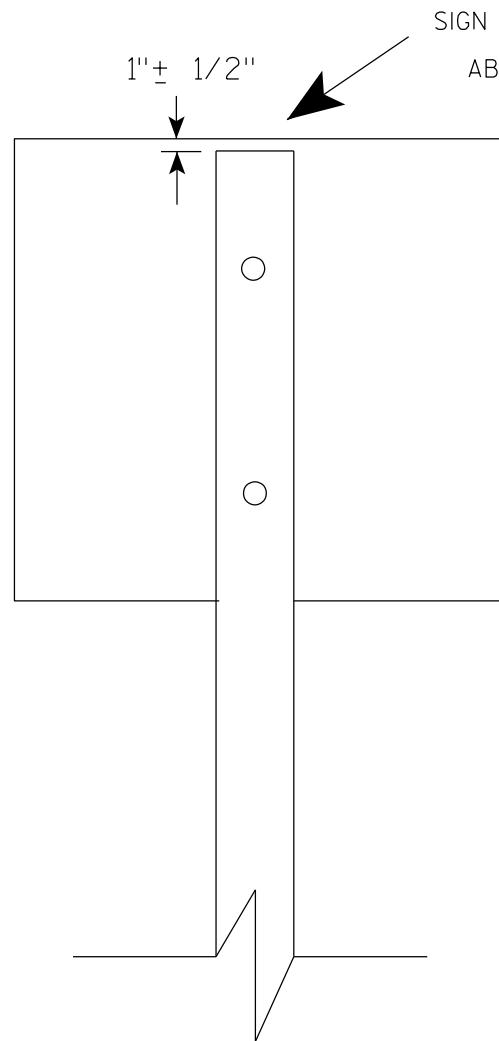
HWY:

COUNTY:

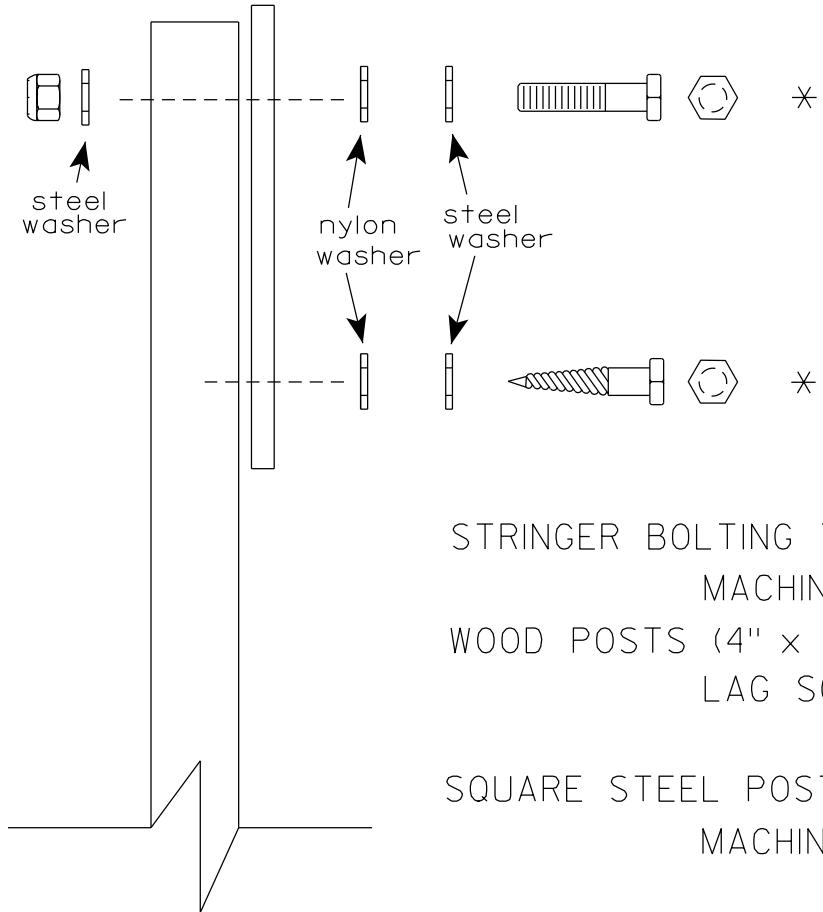
SHEET NO:

E





SIGN SHALL BE MOUNTED TO PROJECT  
ABOVE THE TOP OF THE POST



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" x 6")

LAG SCREWS -  $\frac{3}{8}$ " X 3" (NO STRINGERS ON BACK OF SIGN)  
 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

#### SQUARE STEEL POSTS (2" x 2")

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

RIVETS -  $\frac{9}{32}$ " (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.

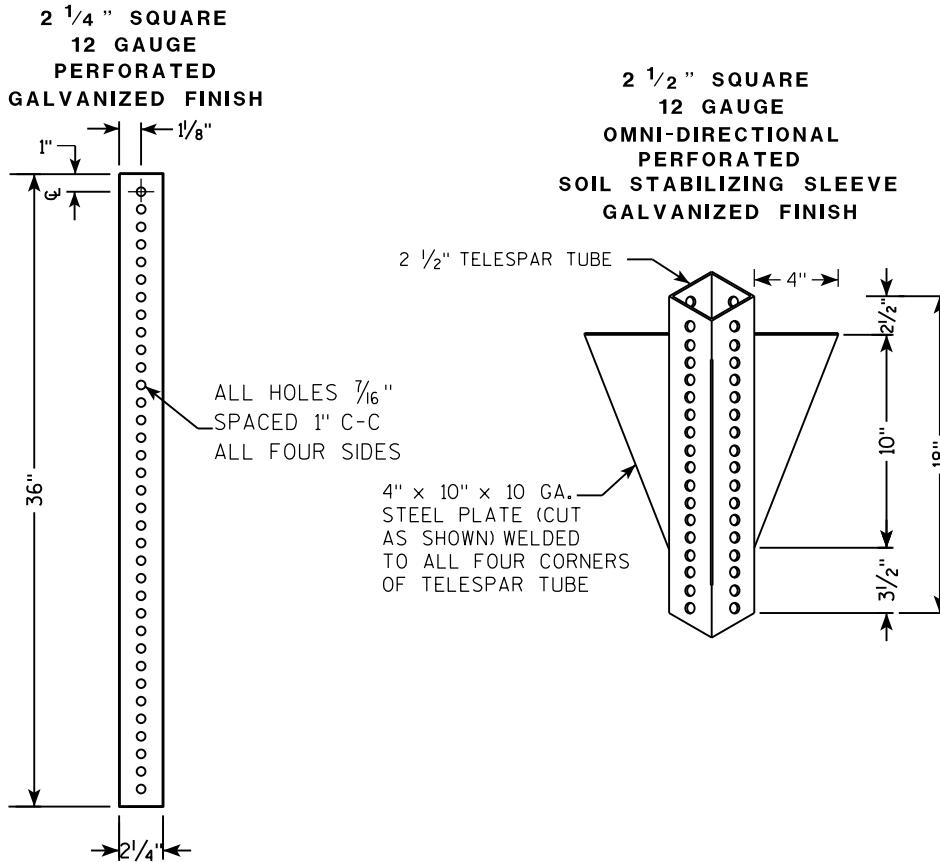
#### ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*  
for State Traffic Engineer

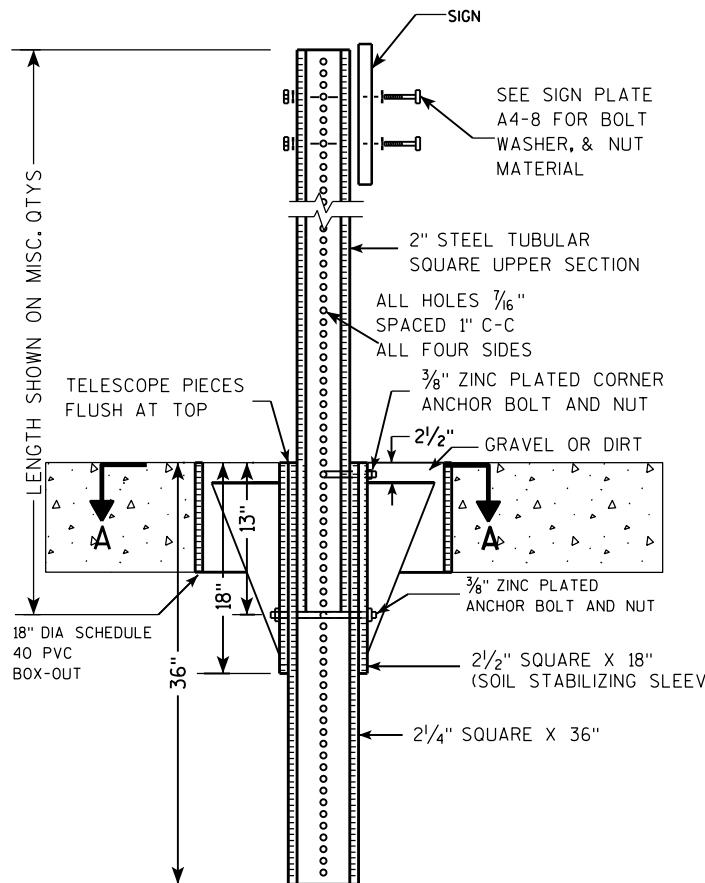
DATE 4/1/2020 PLATE NO. A4-8.9

**TELESCOPIC TUBING ANCHORS  
TWO PIECE SYSTEM**



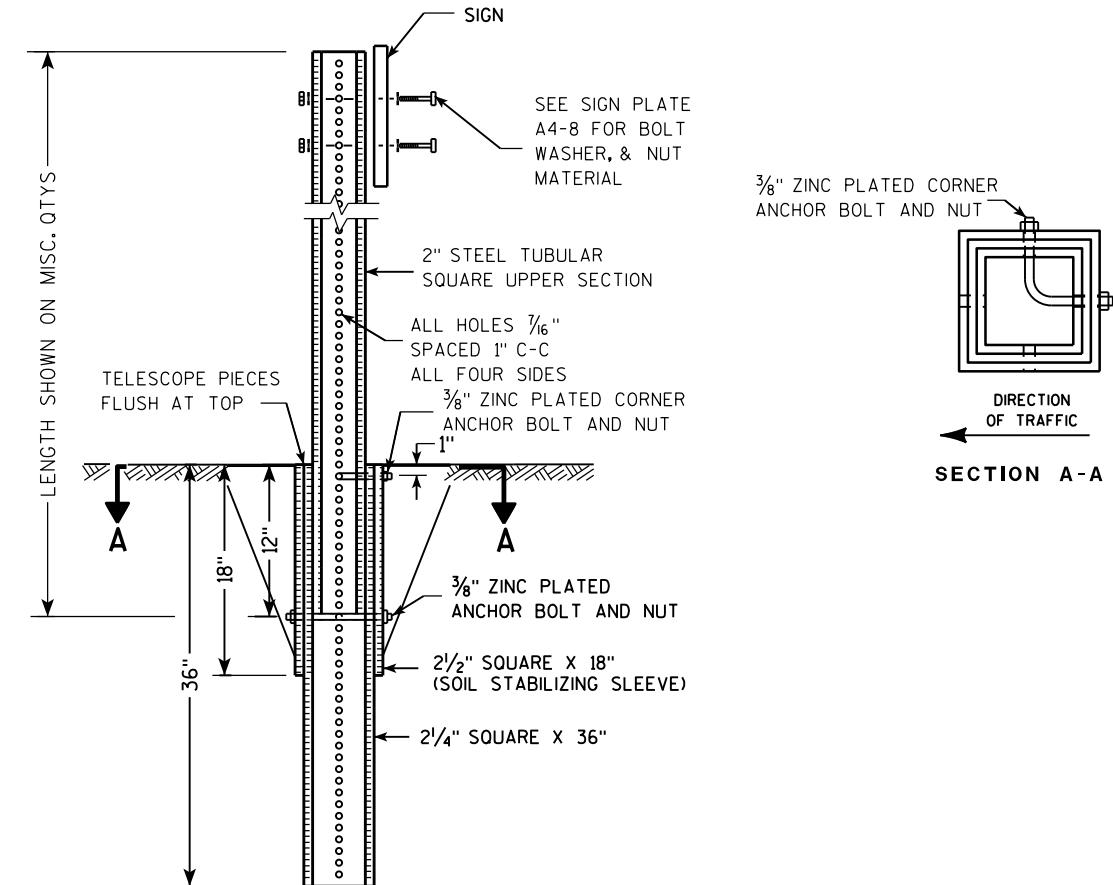
**DETAIL OF TUBULAR STEEL SIGN POST**

(IN Poured CONCRETE OR ASPHALT)



**DETAIL OF TUBULAR STEEL SIGN POST**

(IN LOCATIONS OTHER THAN Poured CONCRETE OR ASPHALT)



7

7

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

**TUBULAR STEEL  
SIGN POST**

A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED  
Matthew P. Rauch

for State Traffic Engineer

DATE 2/05/15 PLATI 24 14-9.9

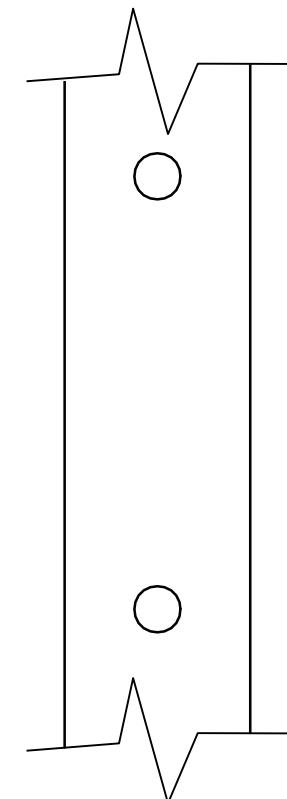
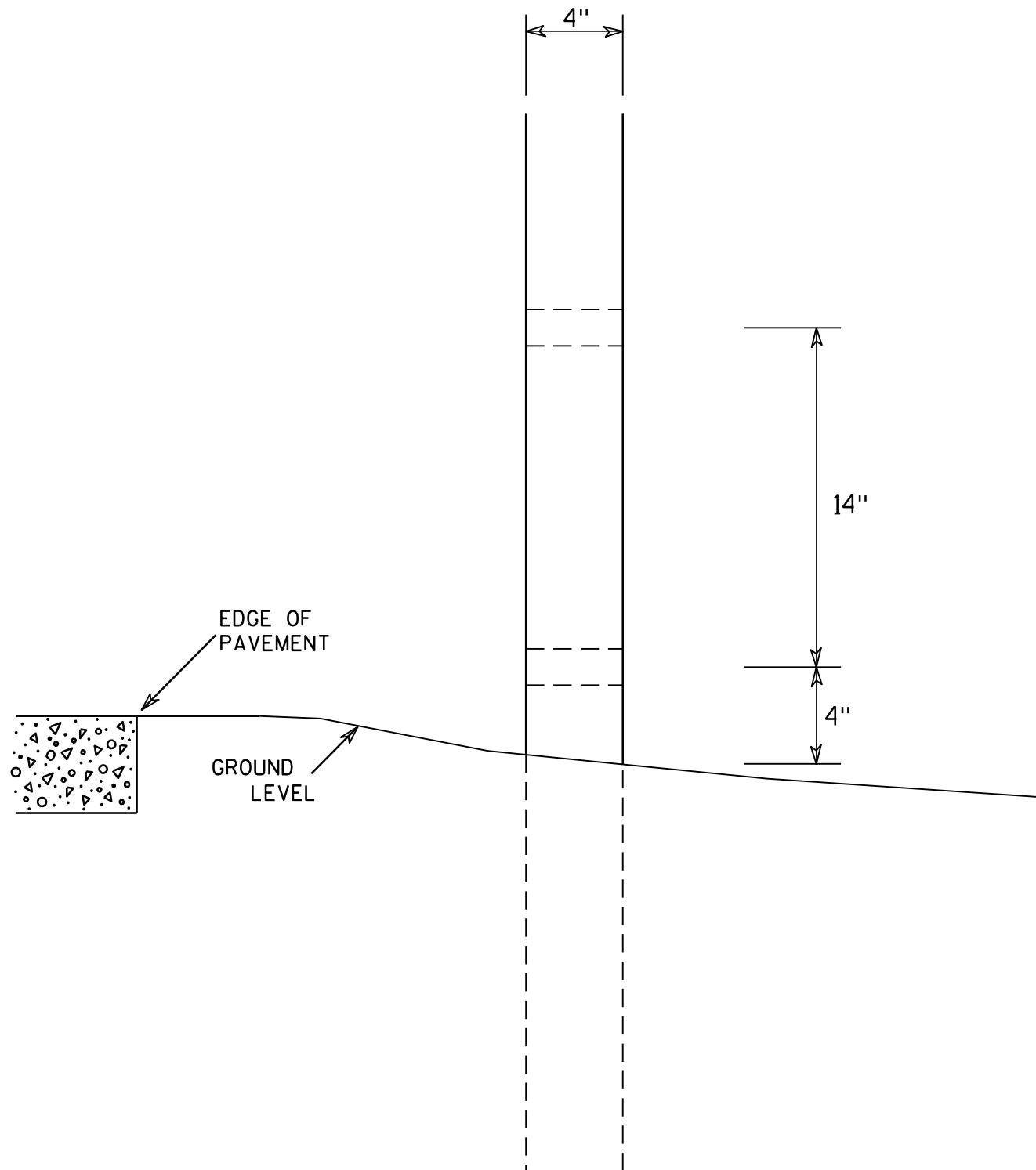
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two  $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST  
MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*Cheska J. Sprey*  
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

HWY:

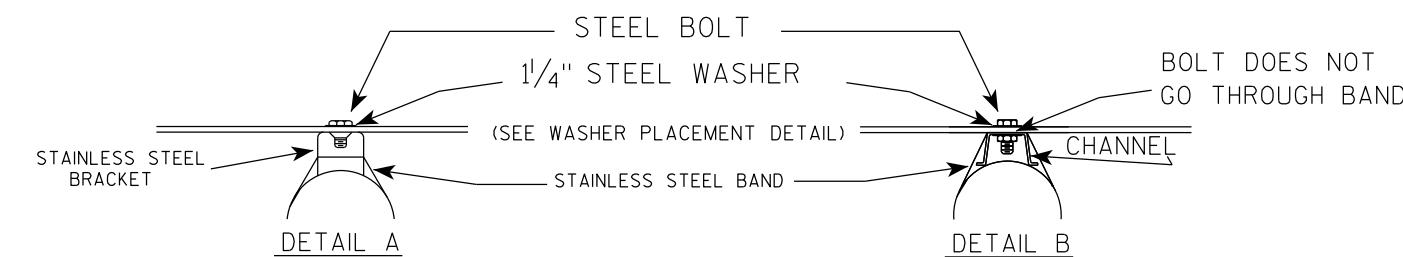
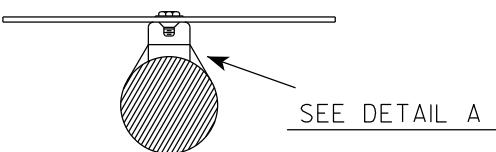
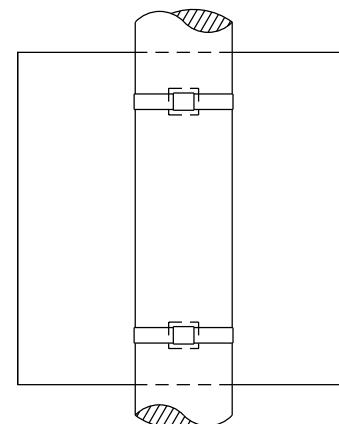
COUNTY:

# BANDING

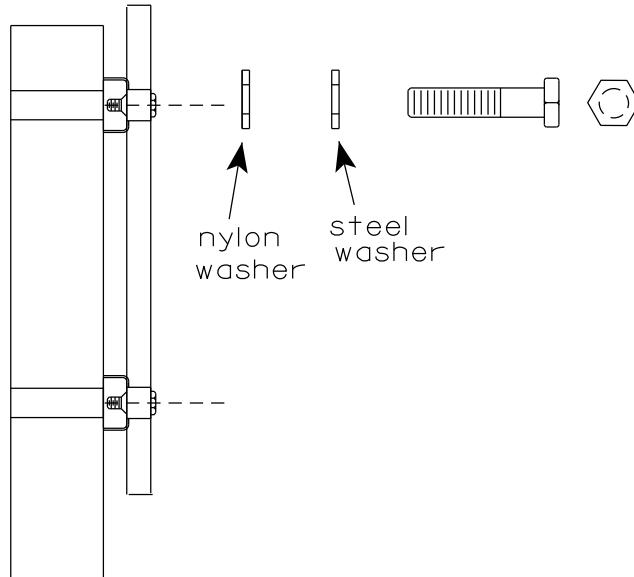
## GENERAL NOTES

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

## SINGLE SIGN

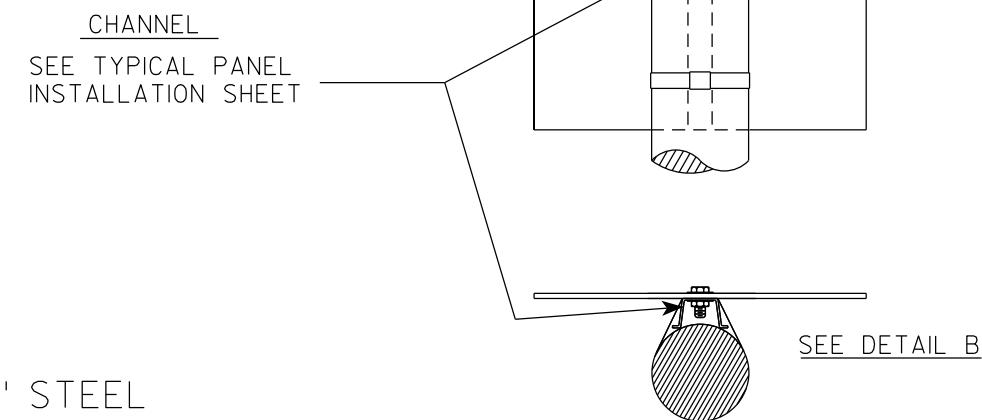


## WASHER PLACEMENT



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  
 FOR ALL TYPE H SIGNS

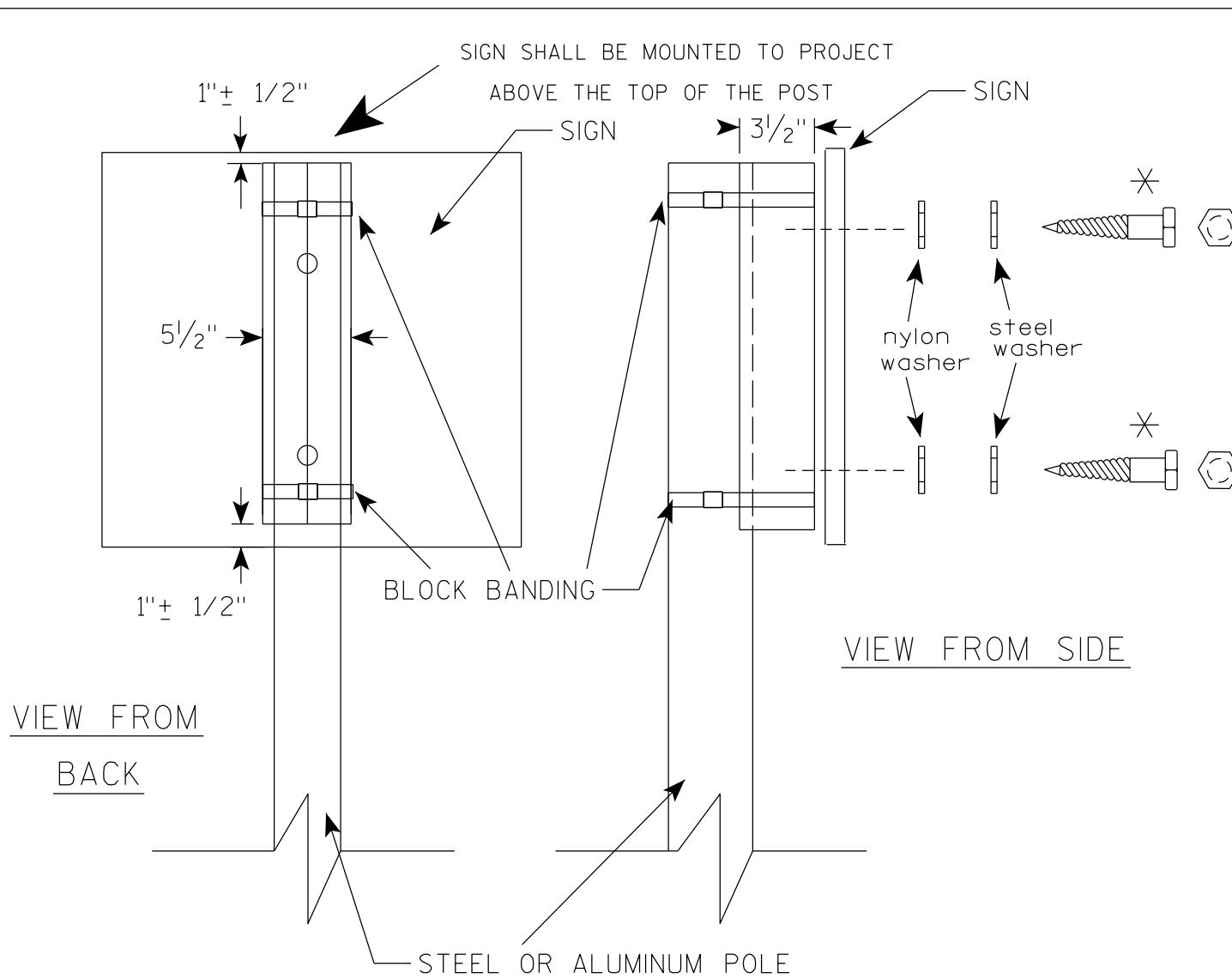
## "J" ASSEMBLY



## STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

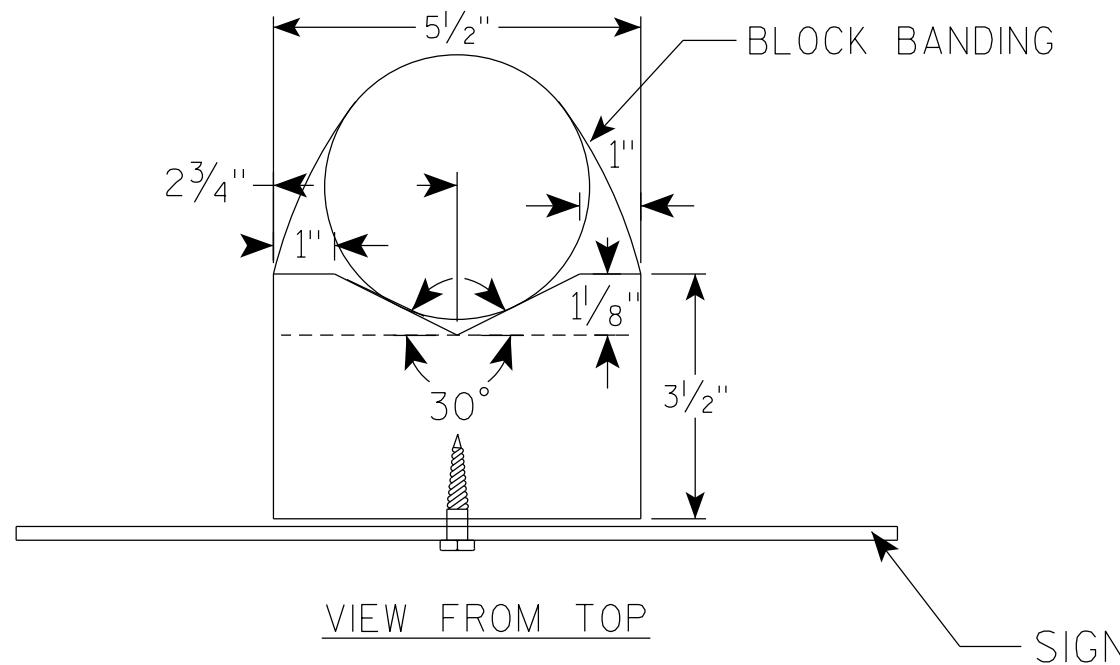
APPROVED  
  
 for State Traffic Engineer  
 DATE 6/10/19 PLATE NO. A5-9.4



### 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 NORMALLY 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  $1\frac{1}{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ "
8. NYLON WASHERS SHALL BE  $1\frac{1}{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

※ LAG BOLTS SHALL BE  $\frac{3}{8}$ " X  $2\frac{1}{2}$ "



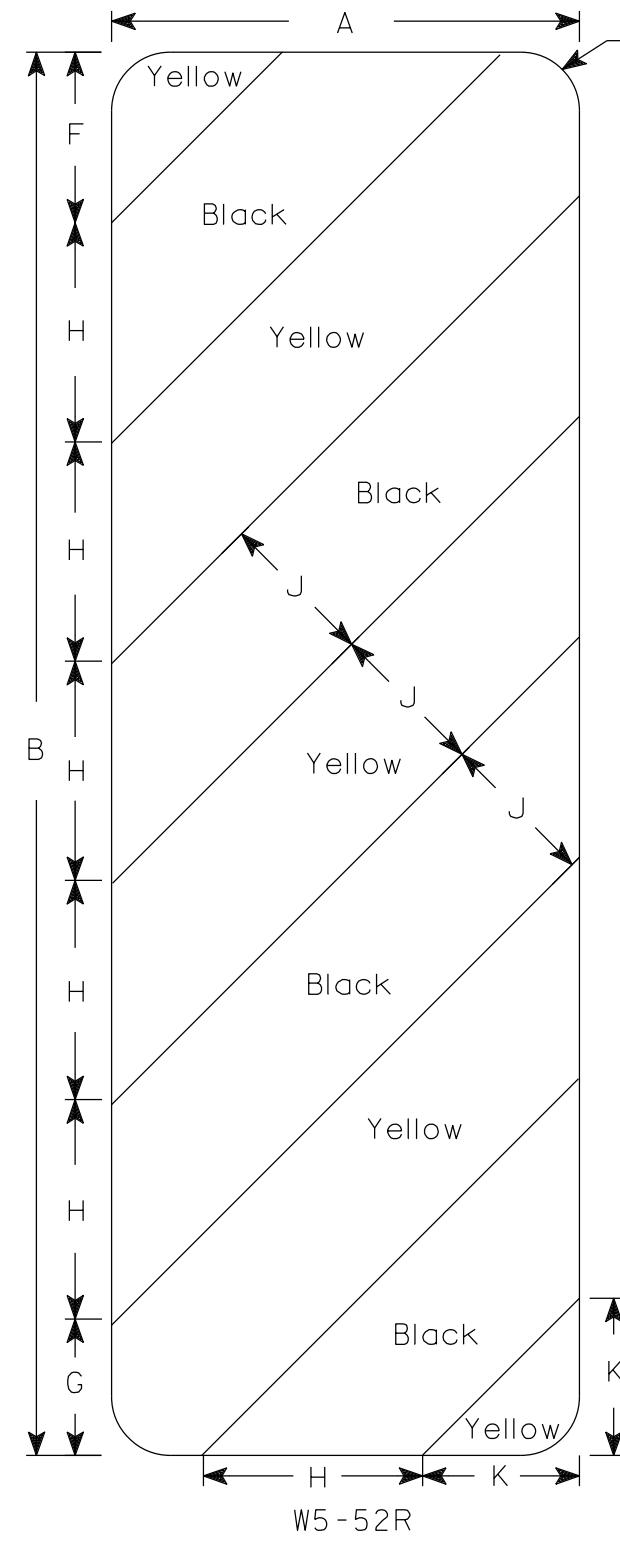
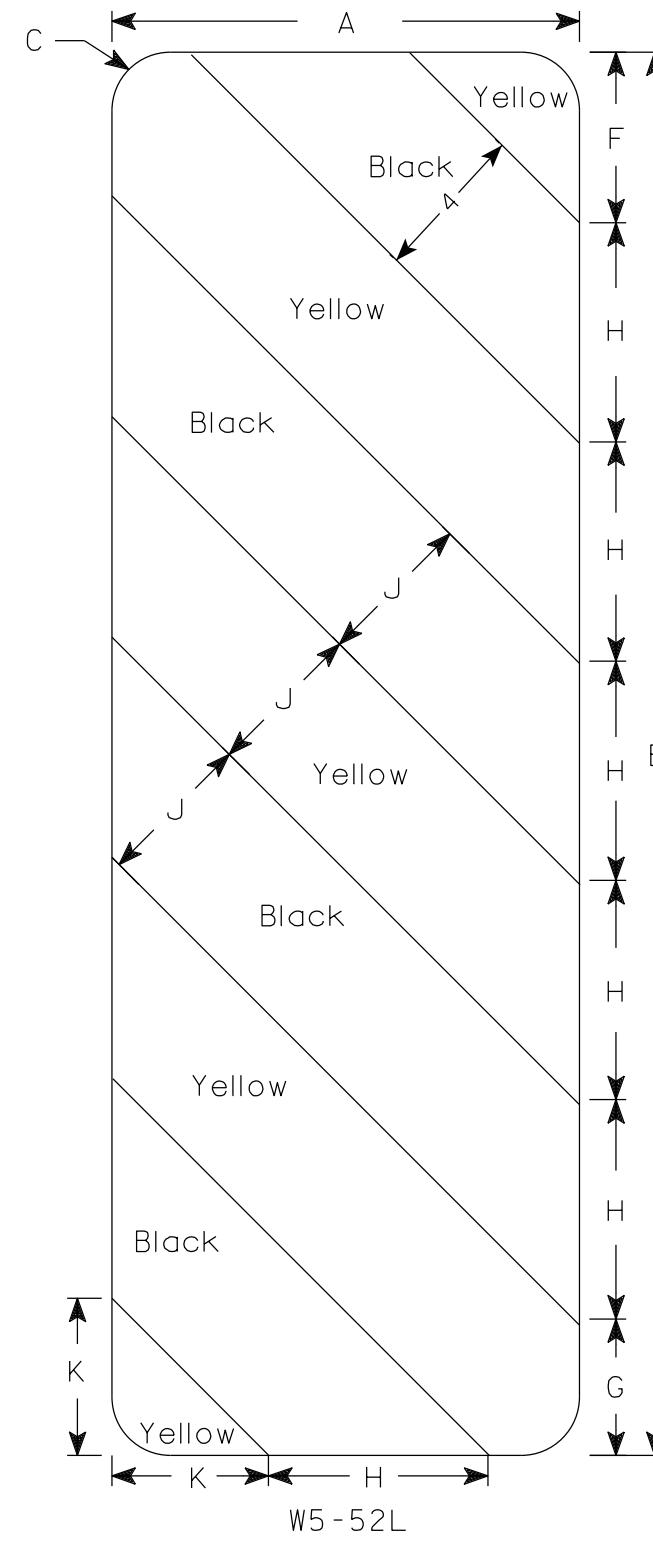
BLOCK BANDING DETAIL  
( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*  
for State Traffic Engineer

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

7



### NOTES

1. Sign is Type II - Type F Reflective
2. Color:  
Background - Yellow  
Message - Black
3. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36	1 1/2			4 3/8	3 1/2	5 5/8	45°	4	4															3.0	
2M	12	36	1 1/2			4 3/8	3 1/2	5 5/8	45°	4	4															3.0	
3	18	54	1 1/2			6	5 1/2	8 1/2	45°	6	6 9/16															6.75	
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: **E**

STANDARD SIGN  
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*

For State Traffic Engineer

DATE 3/4/2024 PLATE NO. W5-52.10

7

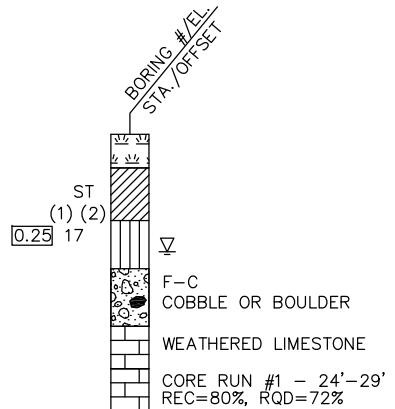




## MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/META

## LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE SPECIFIED, THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

## GROUND WATER ELEVATION

▽ AT TIME OF DRILLING

▼ END OF DRILLING

■ AFTER DRILLING

## ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

## SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			

## STRUCTURE B-62-272

DRAWN BY	JDO	PLANS CK'D	ACK
SUBSURFACE EXPLORATION			

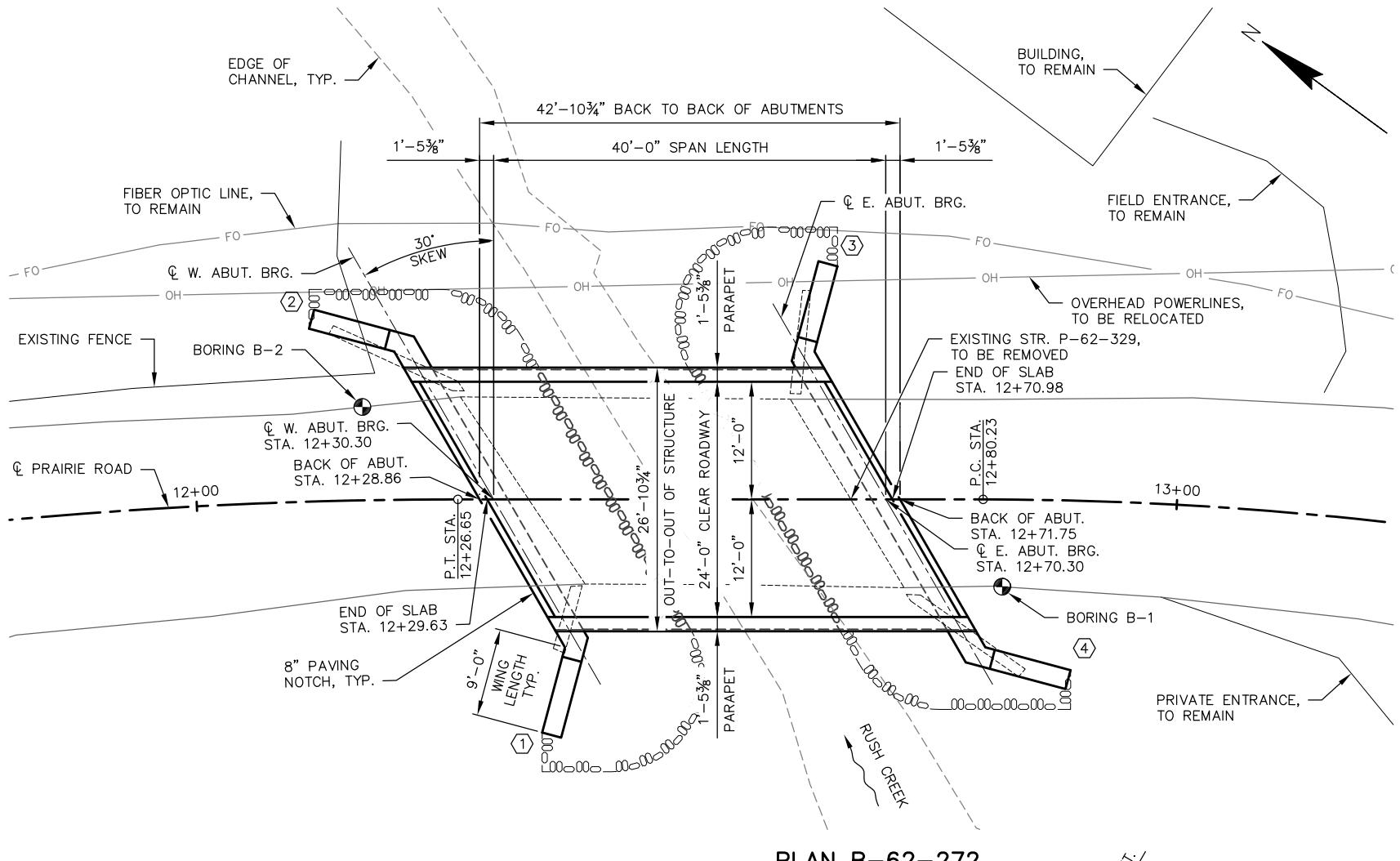
SHEET 3 OF 9

## B-62-272 BORINGS

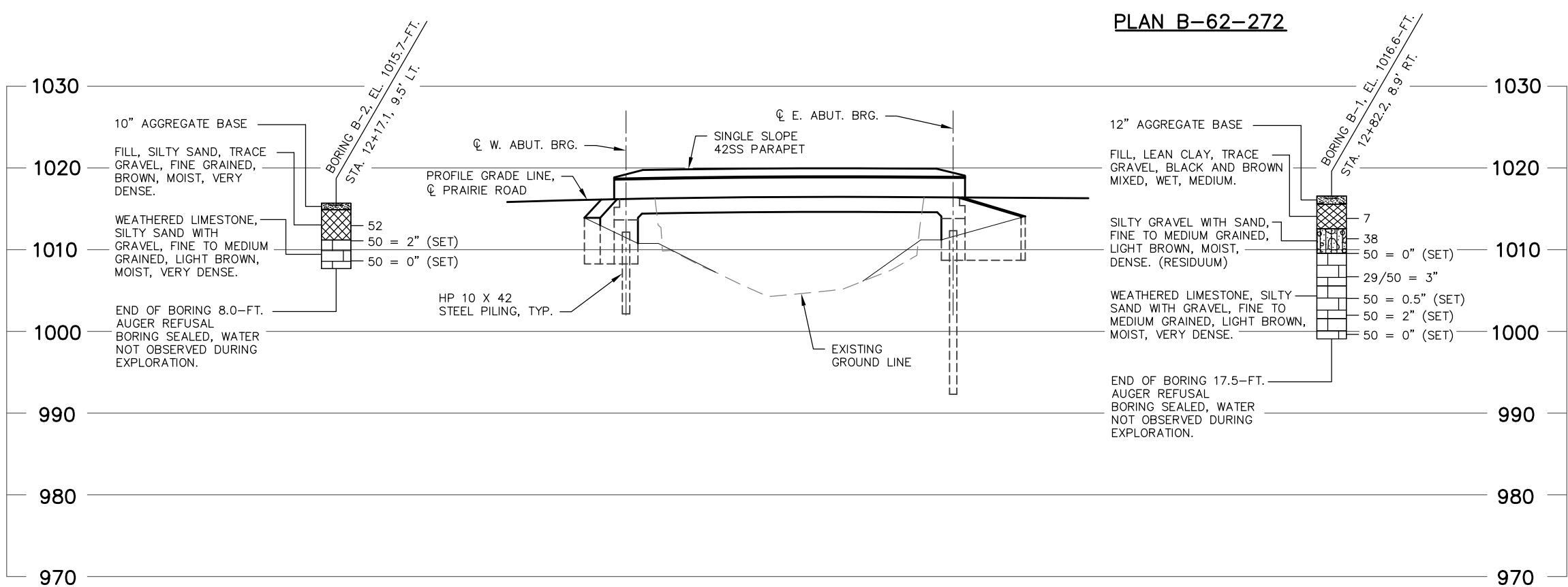
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
BORING B-1	12/28/2022	106733.6	672999.3
BORING B-2	12/28/2022	106797.0	672975.4
BORINGS COMPLETED BY: CHOSEN VALLEY TESTING, INC.			
SUBSURFACE INVESTIGATION REPORT: CHOSEN VALLEY TESTING, INC.			
ALL COORDINATES REFERENCED TO WISCRS, VERNON COUNTY			

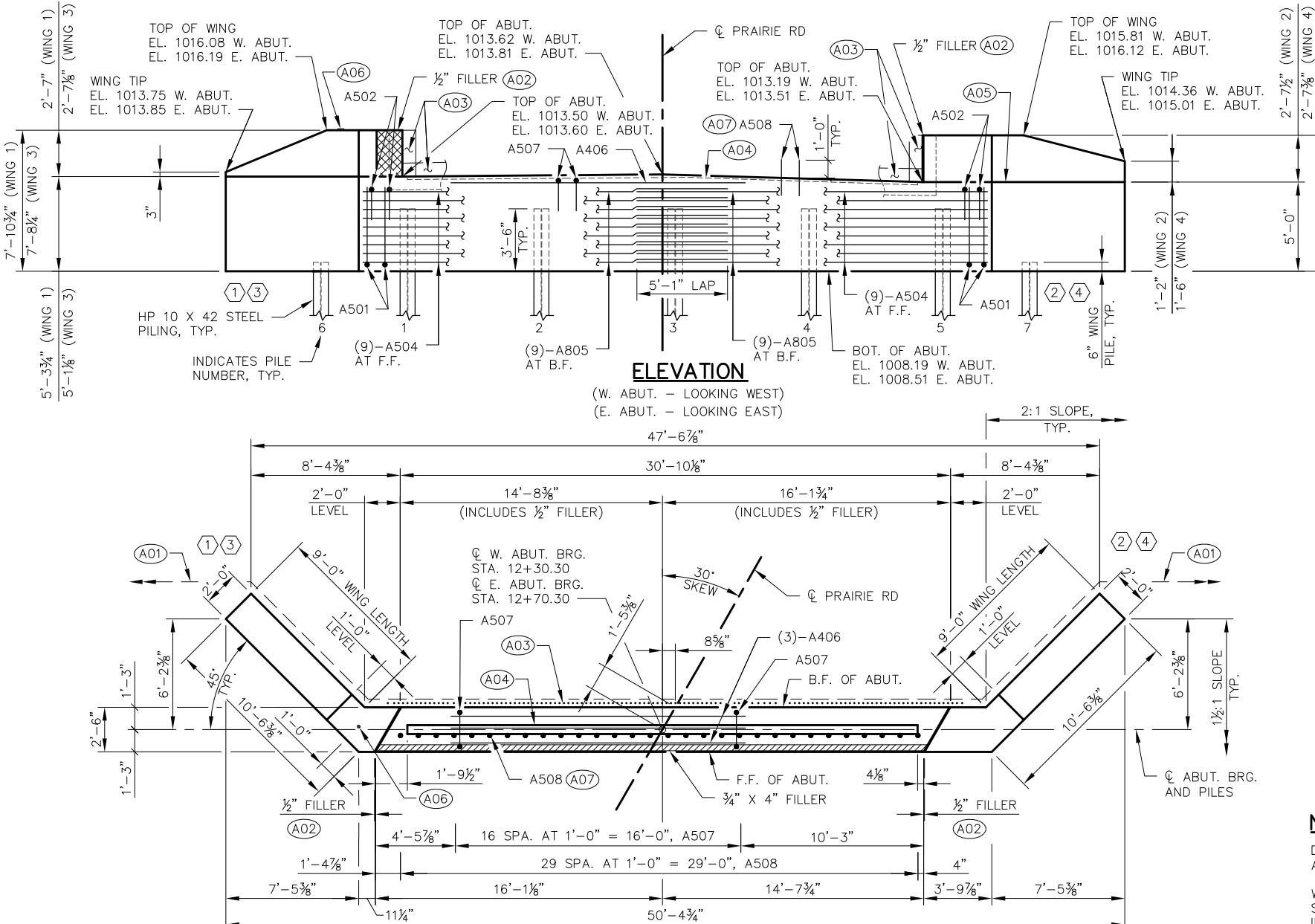
## NOTE

① INDICATES WING NUMBER

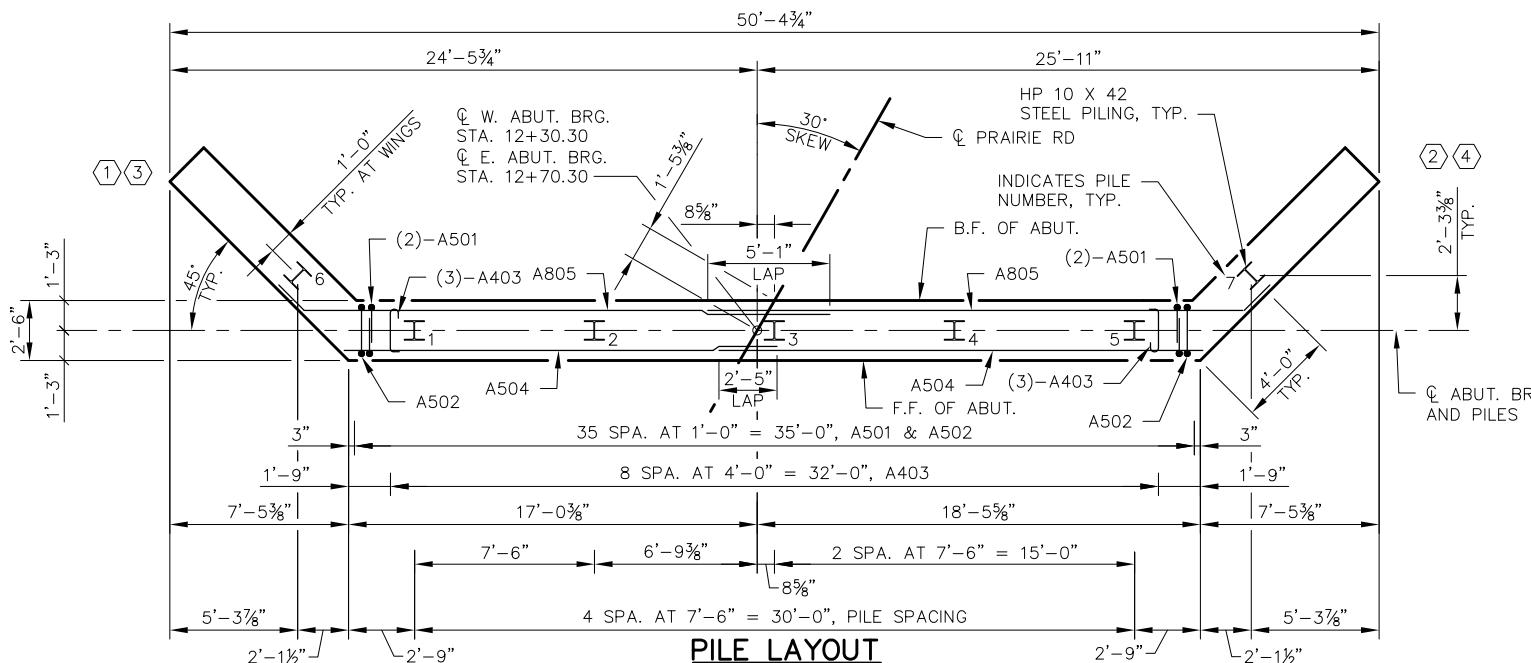


PLAN B-62-272

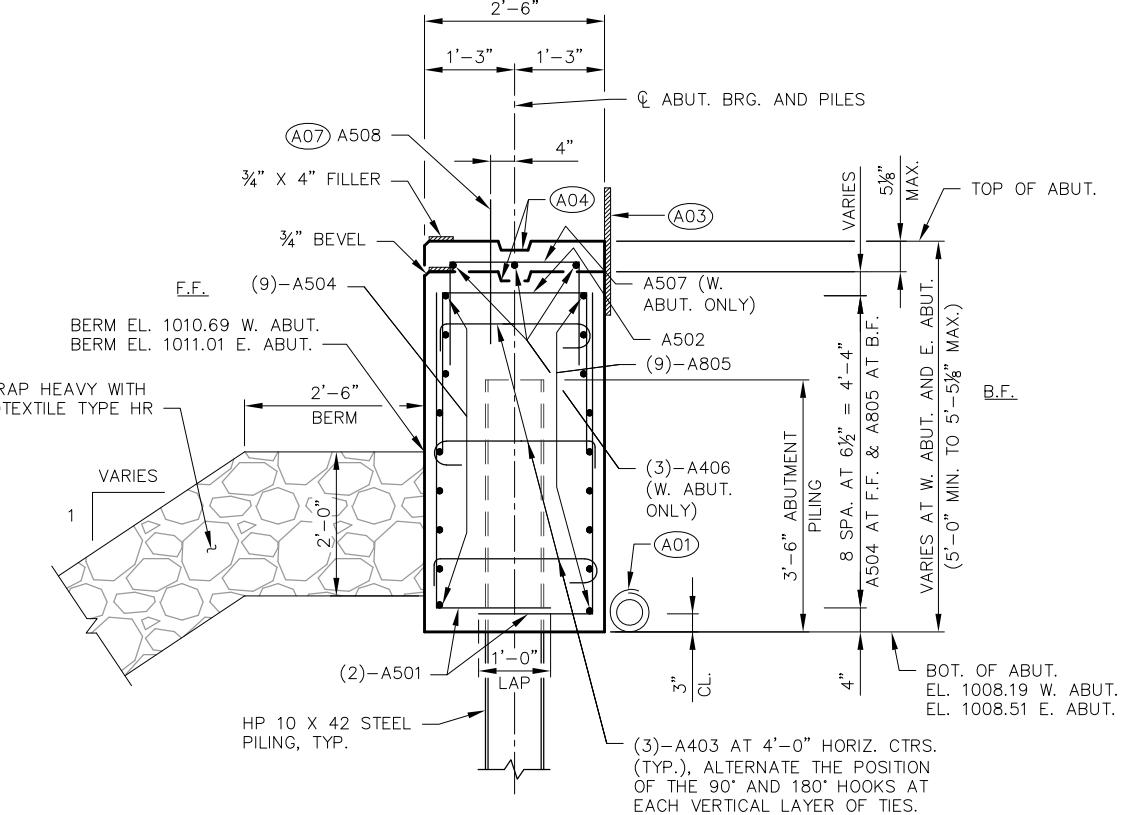




PLAN



## PILE LAYOUT



TYPICAL SECTION  
THRU ABUTMENT

## BENCHMARK CAP DETAIL

## NOTES

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

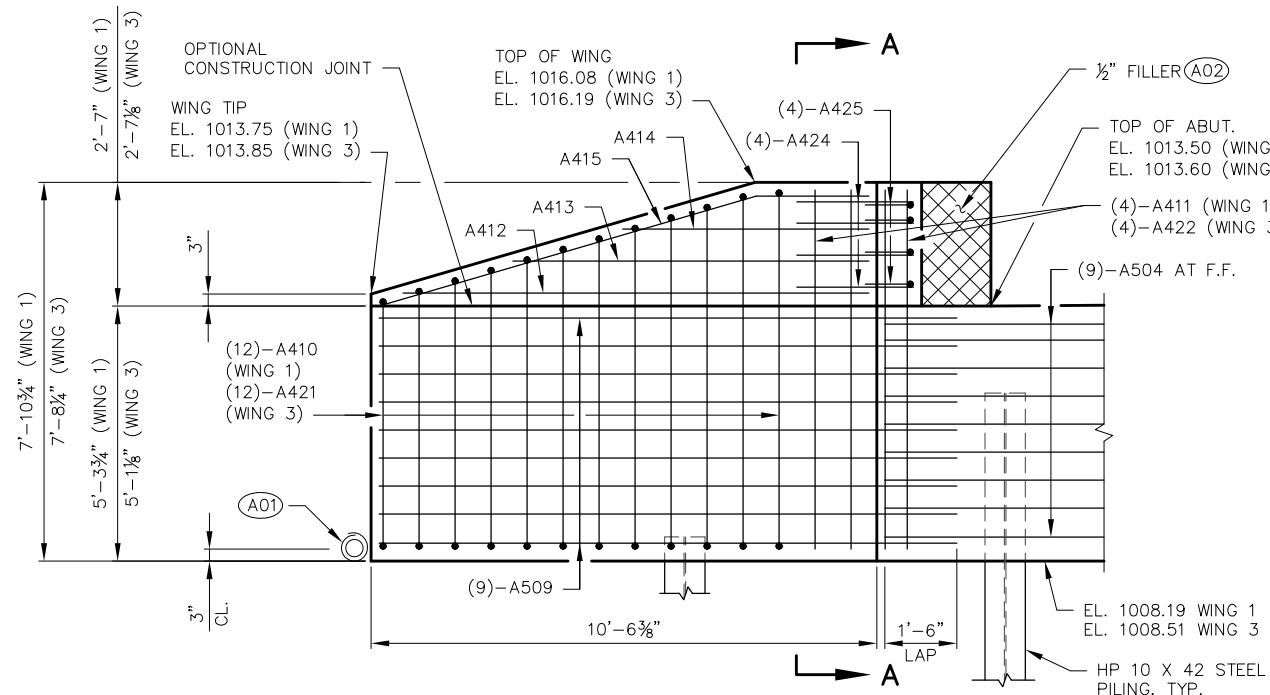
WEST AND EAST ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 STEEL PILING SEATED IN PREBORED HOLES CORED 3 FEET MINIMUM INTO ROCK. PILE DRIVING IS NOT REQUIRED. THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS 140 TONS MULTIPLIED BY A RESISTANCE FACTOR OF 0.5. ESTIMATED 10 FT PILE LENGTHS AT WEST ABUTMENT AND 20 FT PILE LENGTHS AT EAST ABUTMENT.

SEE "CROSS SECTION, GENERAL NOTES & QUANTITIES" SHEET FOR HP 10 X 42 STEEL PILING SPLICING DETAILS.

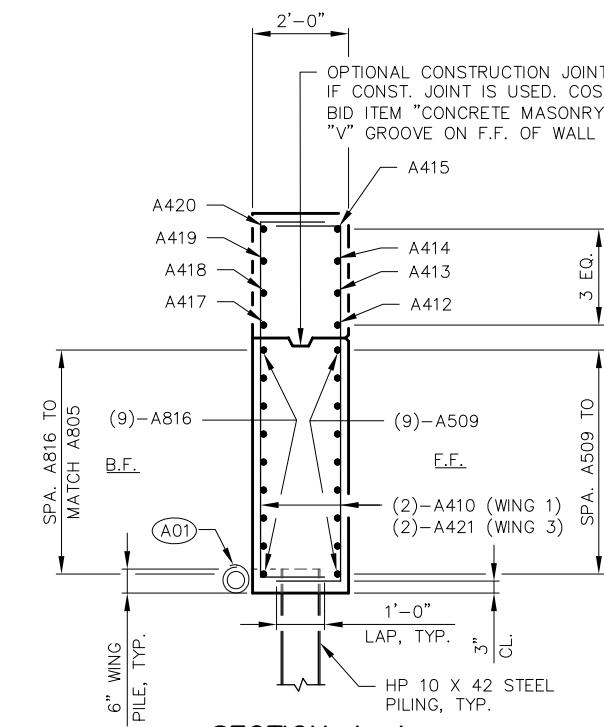
- (A01) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON "WINGS 1 & 3 DETAILS" SHEET. RODENT SHIELD SHALL BE INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".
- (A02) SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF  $\frac{1}{2}$ " FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD  $\frac{1}{8}$ " BELOW SURFACE OF CONCRETE).  $\frac{1}{2}$ " FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF WING.
- (A03) 18" RUBBERIZED MEMBRANE WATERPROOFING (R.M.W.), SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.
- (A04) KEYED CONST. JT. FORMED BY BEVELED 2 X 6
- (A05) OPTIONAL KEYED CONST. JT. FORMED BY BEVELED 2 X 6, TYP.
- (A06) BENCHMARK CAP (WHEN SUPPLIED) AT WING 1 ONLY. SEE "BENCHMARK CAP DETAIL", THIS SHEET.
- (A07) A508 BARS MAY BE PLACED AFTER CONCRETE HAS BEEN POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-0" INTO ABUTMENT BODY.

 INDICATES WING NUMBER

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
<b>STRUCTURE B-62-272</b>			
DRAWN BY		JDO	PLANS CK'D     ACK
<b>ABUTMENTS</b>		SHEET 4 OF 9	
		32	



F.F. ELEVATION - WINGS 1 &amp; 3



## NOTES

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

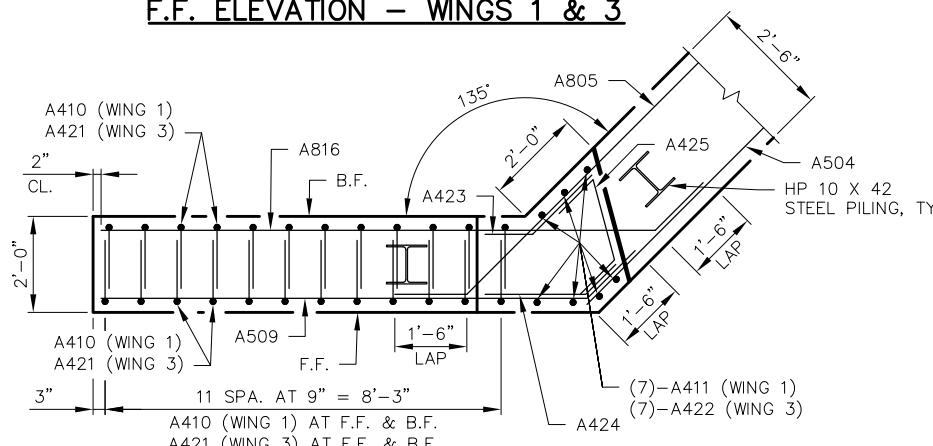
WEST AND EAST ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 STEEL PILING SEATED IN PREBORED HOLES CORED 3 FEET MINIMUM INTO ROCK. PILE DRIVING IS NOT REQUIRED. THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS 140 TONS MULTIPLIED BY A RESISTANCE FACTOR OF 0.5. ESTIMATED 10 FT PILE LENGTHS AT WEST ABUTMENT AND 20 FT PILE LENGTHS AT EAST ABUTMENT.

SEE "CROSS SECTION, GENERAL NOTES & QUANTITIES" SHEET FOR HP 10 X 42 STEEL PILING SPLICE DETAILS.

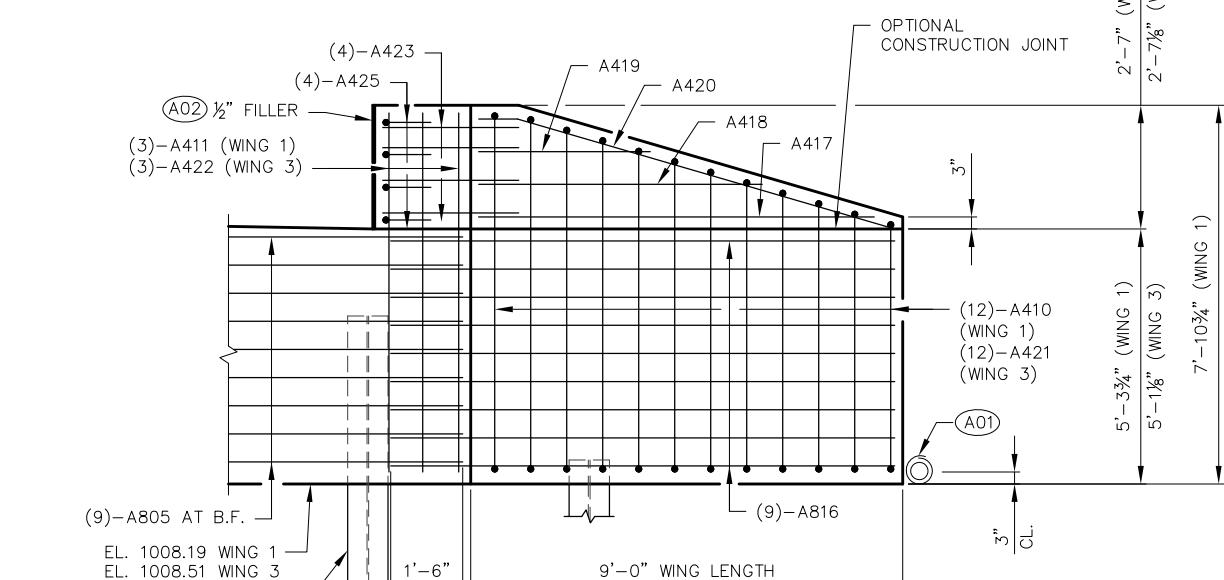
(A01) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET. RODENT SHIELD SHALL BE INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

(A02) SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.) 1/2" FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF WING.

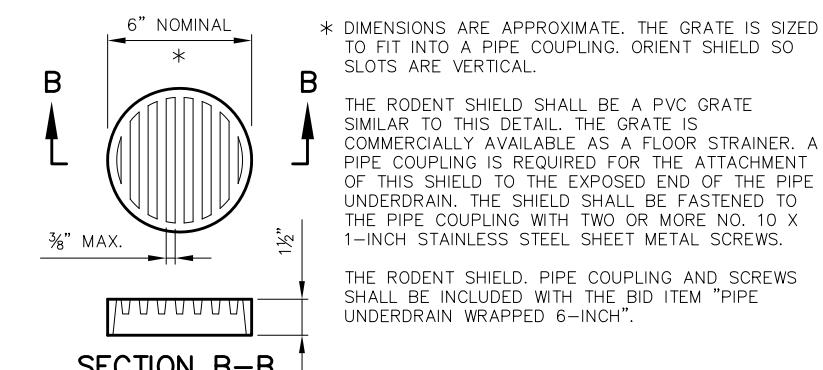
F.F. - FRONT FACE  
B.F. - BACK FACE



PLAN - WINGS 1 &amp; 3



B.F. ELEVATION - WINGS 1 &amp; 3



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

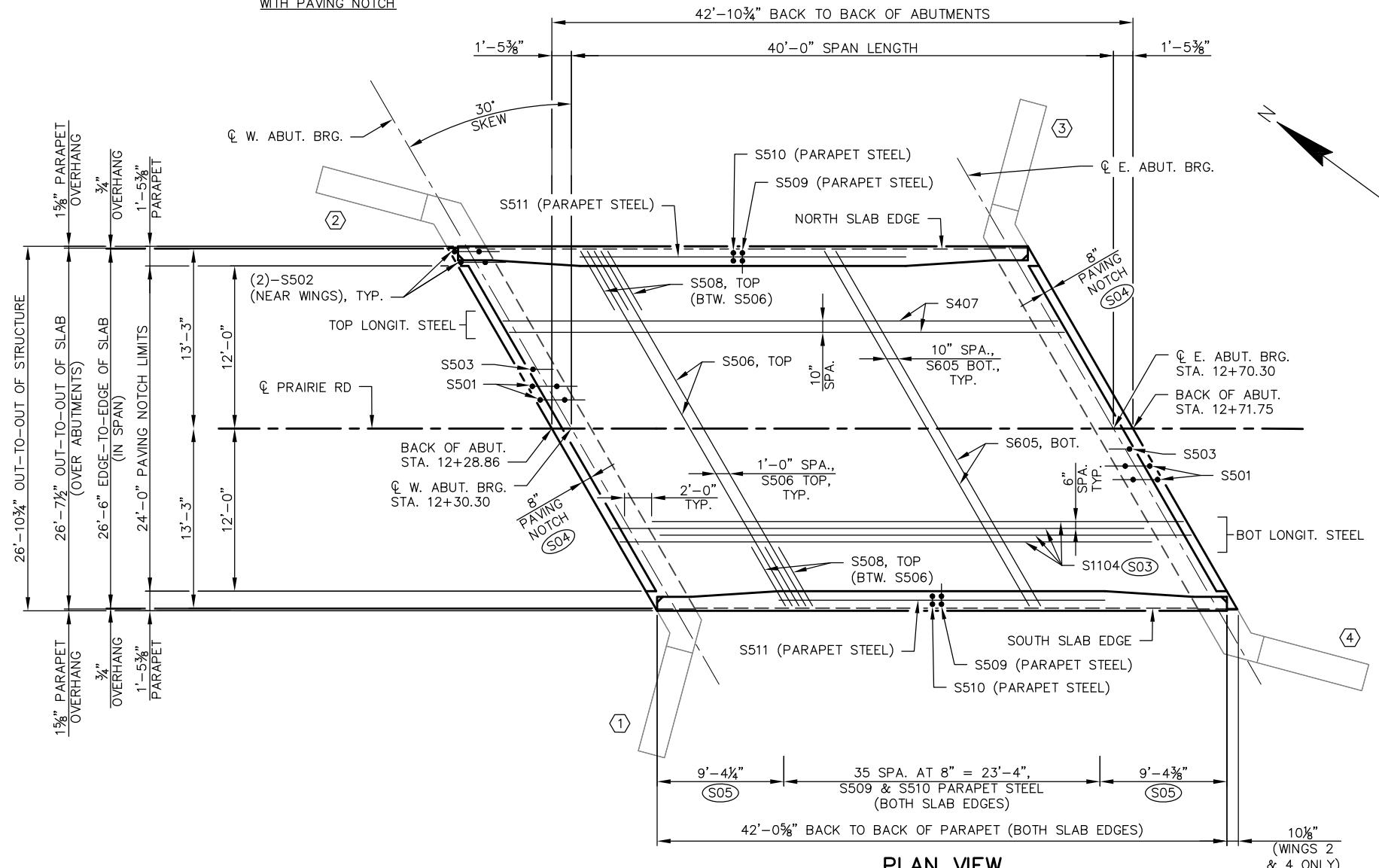
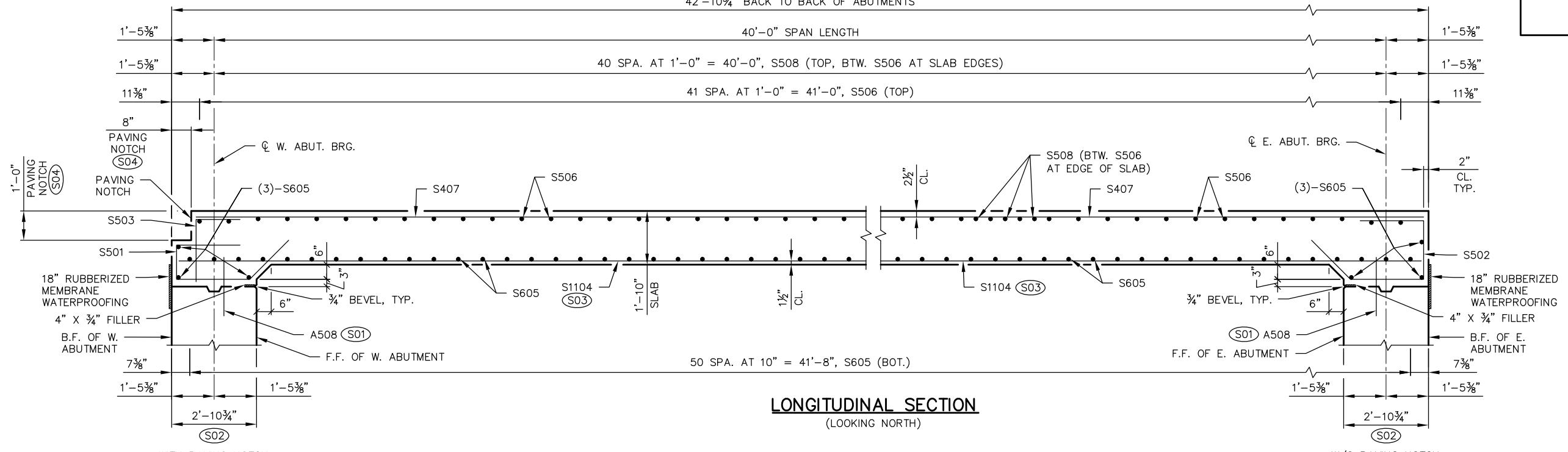
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X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

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

## RODENT SHIELD DETAIL

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-272			
DRAWN BY	JDO	PLANS CK'D	ACK
WINGS 1 & 3 DETAILS			
SHEET 5 OF 9			
33			





## NOTES

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 (+).

PARAPETS TO BE CAST ON THE SLAB AFTER FALSEWORK HAS BEEN RELEASED.

(S01) SEE "ABUTMENTS" SHEET FOR PLACEMENT OF A508 BARS

(S02) DIMENSION IS TAKEN PARALLEL TO C. PRAIRIE RD

(S03) EXTEND ONE END OF THE S1104 BAR TO 2" CLEAR OF ONE BACK FACE OF ABUTMENT. ALTERNATE BETWEEN WEST AND EAST ABUTMENTS ACROSS ENTIRE SLAB.

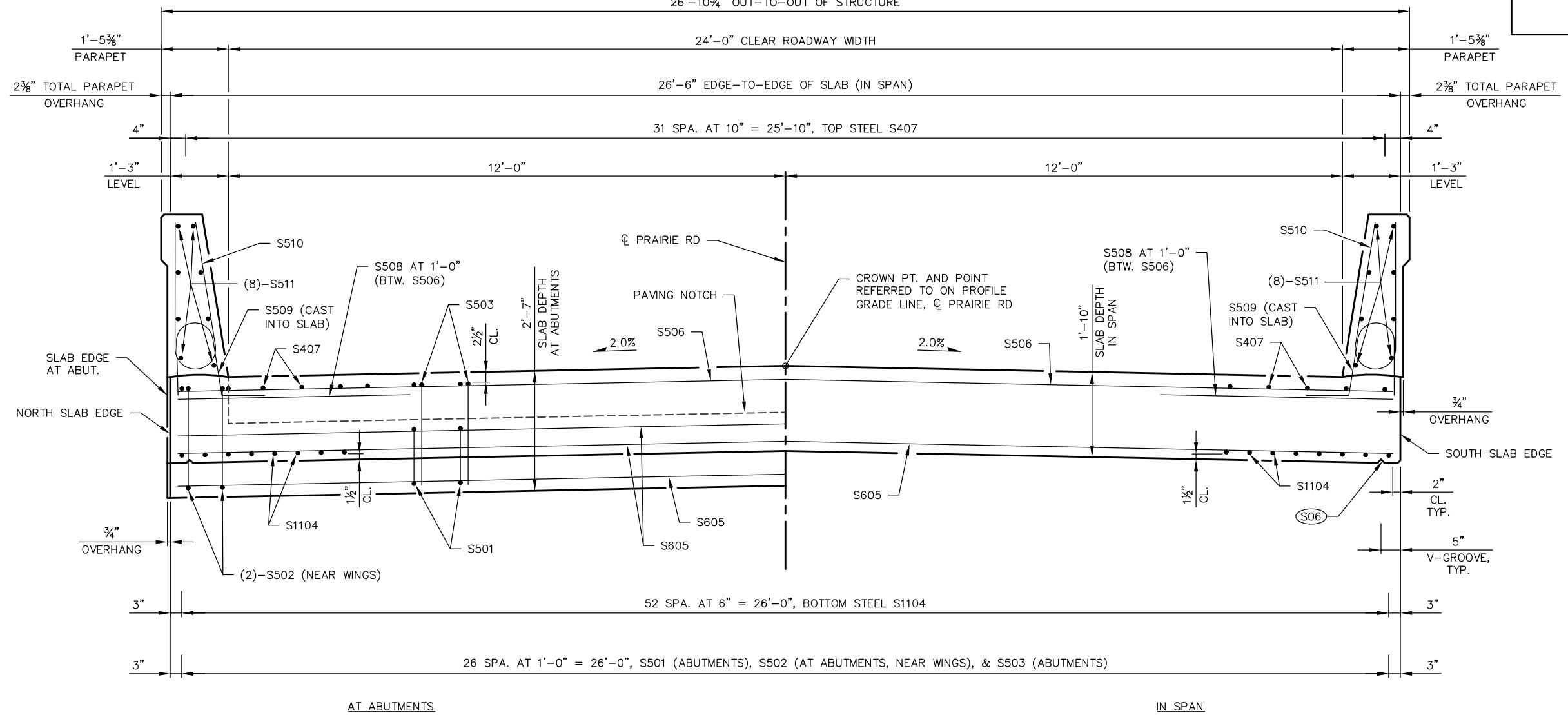
(S04) APPLY PROTECTIVE SURFACE TREATMENT TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES.

(S05) PARAPET STEEL IN TRANSITION ZONE. SEE DETAILS ON "PARAPET & SUPERSTRUCTURE REINFORCEMENT" SHEET.

( ) INDICATES WING NUMBER

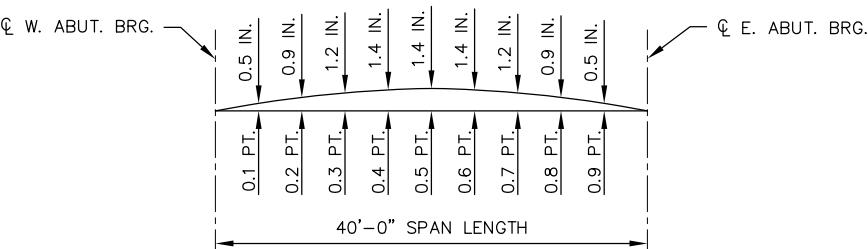
F.F. - FRONT FACE  
B.F. - BACK FACE

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-62-272			
DRAWN BY	JDO	PLANS CK'D	ACK
SHEET 7 OF 9			
SUPERSTRUCTURE			
35			



## CROSS SECTION THRU ROADWAY

(LOOKING EAST)



## SLAB CAMBER DIAGRAM

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

TOP OF SLAB ELEVATION AT FINAL GRADE  
LESS SLAB THICKNESS  
PLUS CAMBER  
PLUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)  
EQUALS TOP OF SLAB FALSEWORK ELEVATION.

TOP OF SLAB ELEVATIONS

SPAN PT	INSIDE FACE OF NORTH PARAPET	Q. PRAIRIE RD	INSIDE FACE OF SOUTH PARAPET
Q. W. ABUT.	1015.81	1016.20	1016.08
0.1	1015.90	1016.28	1016.14
0.2	1015.99	1016.34	1016.18
0.3	1016.06	1016.39	1016.20
0.4	1016.11	1016.42	1016.22
0.5	1016.16	1016.45	1016.22
0.6	1016.19	1016.46	1016.20
0.7	1016.21	1016.45	1016.18
0.8	1016.22	1016.44	1016.16
0.9	1016.21	1016.42	1016.14
Q. E. ABUT.	1016.19	1016.39	1016.12

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE 1/4 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.

## SURVEY TOP OF SLAB ELEVATIONS

	Q W. ABUT. BRG.	5/10 PT.	Q E. ABUT. BRG.
NORTH SLAB EDGE			
Q PRAIRIE RD			
SOUTH SLAB EDGE			

## NOTES

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

(S06)  $\frac{3}{4}$ " V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT BODY. V-GROOVES ARE REQUIRED.

STRUCTURE B-62-272

DRAWN BY JDO PLANS CK'D AC

## SUPERSTRUCTURE DETAILS



### WEST APPROACH

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
		NOTE 1	NOTE 2	NOTE 3		NOTE 1	NOTE 4			
11+78.86	0.00	34.35	0.00	7.95	0	0	0	0	0	0
12+00.00	21.14	37.86	0.00	21.45	28	0	12	28	15	13
12+12.00	12.00	37.13	0.00	34.11	17	0	12	45	30	15
12+35.21	23.21	0.16	0.00	1.08	16	0	15	61	49	12
STRUCTURE B-62-0272										
DIVISION 1 TOTAL				61	0	39				

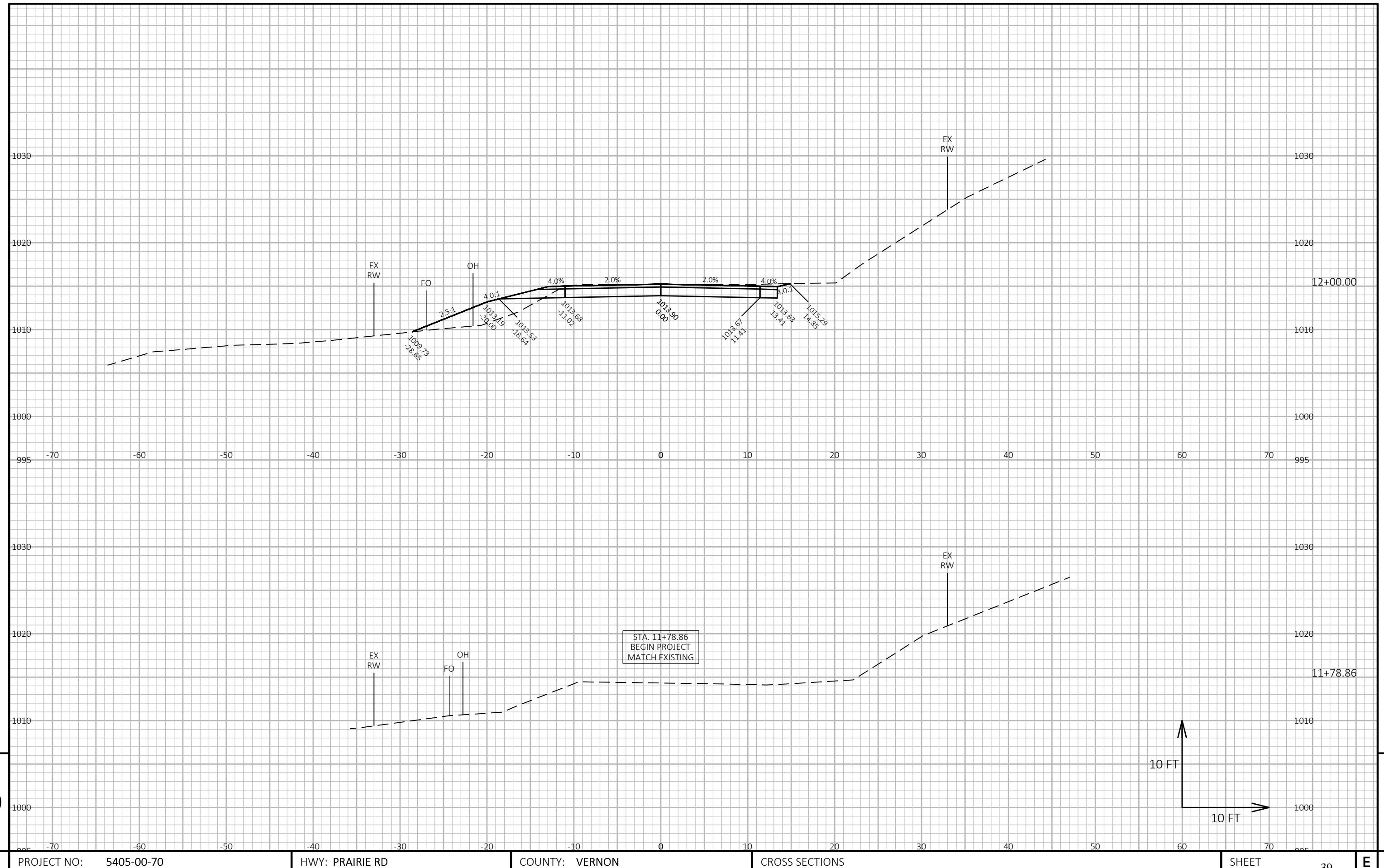
### EAST APPROACH

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
		NOTE 1	NOTE 2	NOTE 3		NOTE 1	NOTE 4			
STRUCTURE B-62-0272										
12+65.41	0.00	3.90	0.00	9.06	0	0	0	0	0	0
12+89.57	24.16	46.00	0.00	2.22	22	0	5	22	6	16
13+00.00	10.43	41.66	0.00	0.00	17	0	0	39	6	33
13+21.76	21.76	44.23	0.00	0.00	35	0	0	74	6	68
DIVISION 2 TOTAL				74	0	5				
PROJECT TOTAL				135	0	44				

NOTES:

1 - CUT  
 2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL  
 3 - FILL  
 4 - MASS ORDINATE

CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL  
 THIS DOES NOT SHOW UP IN CROSS SECTIONS  
 DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME  
 [(CUT) - (FILL \* FILL FACTOR) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)]  
 PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.



PROJECT NO: 5405-00-70

HWY: PRAIRIE RI

COUNTY: VERNON

## CROSS SECTIONS

SHEET

E

FILE NAME : G:\00-PROJECT FILES\2022\22317 PRAIRIE RD, RUSH CREEK BRIDGE, VERNON COUNTY\0-CAD\DSGN\CRDR\CRDR-LCL-PRAIRIERD.DWG  
LAYOUT NAME - 090201\_xs

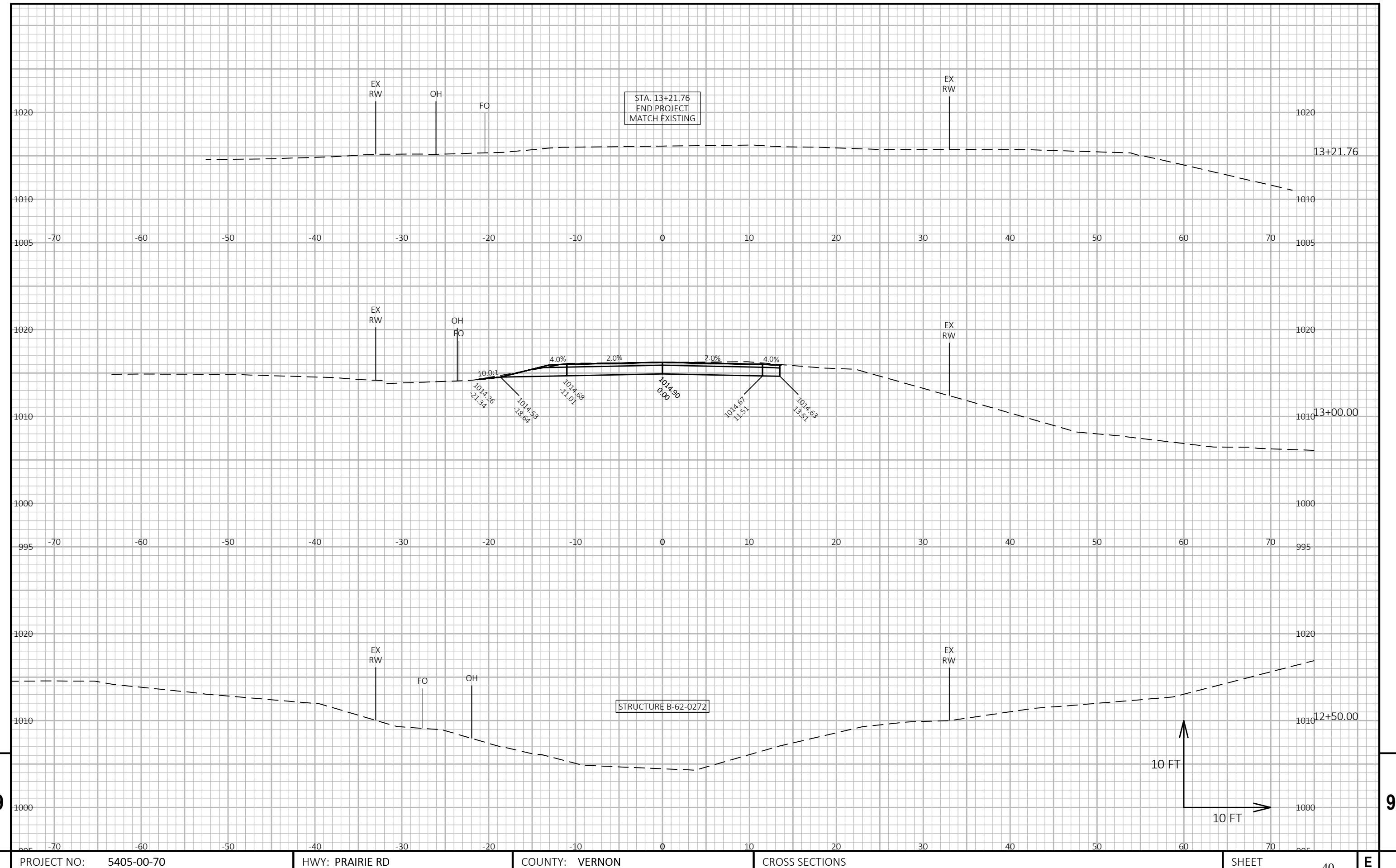
PLOT DATE : 11/4/2024 8:45 AM

PLOT BY : GAVIN WIPPERFURTH

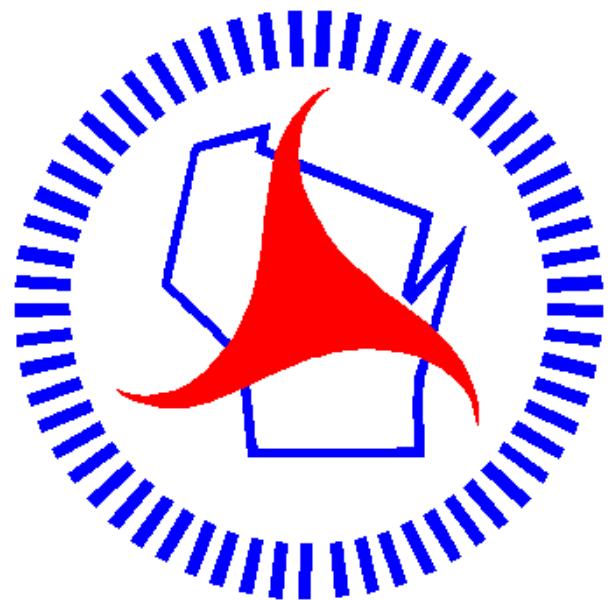
STUDENT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CARDS SHEET 49



# Notes



## ***Wisconsin Department of Transportation***

Dedicated people creating transportation solutions  
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>