December 2024

Section No.

Section No.

Section No.

Section No.

ORDER OF SHEETS

TOTAL SHEETS = 44

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

STH 25 - STH 37

LEE VALLEY CREEK BRIDGE B-06-0239

CTH KK **BUFFALO COUNTY**

> STATE PROJECT NUMBER 7364-00-70

Typical Sections and Details Estimate of Quantities

Miscellaneous Quantities

Standard Detail Drawings

Plan and Profile

Structure Plans Computer Earthwork Data

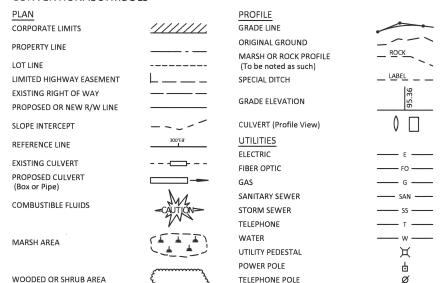
Cross Sections

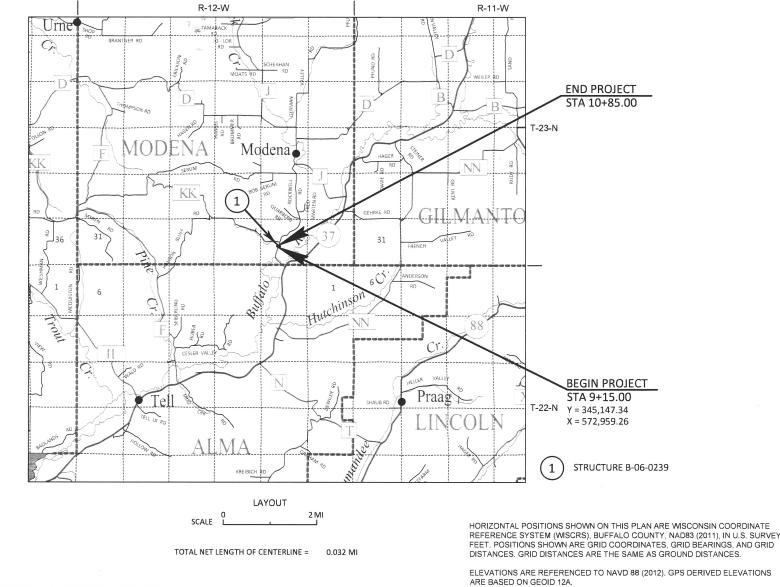
Sign Plates

DESIGN DESIGNATION 7364-00-00

A.A.D.T. 2025 = 130 A.A.D.T. 2045 = 143 D.H.V. = 50/50 D.D. = 10.0% DESIGN SPEED = 55 MPH = 44,000

CONVENTIONAL SYMBOLS





FEDERAL PROJECT STATE PROJECT CONTRACT 7364-00-70 WISC 2025127 1



ORIGINAL PLANS PREPARED BY

6808 Odana Road, Suite 200 Madison, WI 53719-1137 ilding a Better World 608.620.6199 main | 888.908.8166 fax for All of Us™ 800.732.4362 toll free | www.sehinc.com



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor SEH Designer TOU YANG, PE Project Manager NWR TOU YANG, PE Regional Supervisor

PROVED FOR THE DEPARTMENT 7/29/2024 E

PLOT BY:

FF

FERT

CWT

FE

FL

FACE TO FACE

FIELD ENTRANCE

HUNDREDWEIGHT

FERTILIZE

FLOW LINE

FIBER OPTIC

STANDARD ABBREVIATIONS

ABUT **ABUTMENT** HYD **HYDRANT** INSIDE DIAMETER AGGREGATE AGG INV INVERT APRON ENDWALL FOR CULVERT PIPE IΡ IRON PIPE ON PIN **AECPRC** REINFORCED CONCRETE LHF LEFT-HAND FORWARD APRON ENDWALL FOR CULVERT PIPE LENGTH OF CURVE **CORRUGATED STEEL** LF LINEAR FOOT ASPH **ASPHALTIC** LC LONG CHORD OF CURVE AVG **AVERAGE** LUMP SUM LS ADT AVERAGE DAILY TRAFFIC MH MANHOLE BF BACK FACE MOR MID POINT OF RADIUS BM BENCH MARK NC NORMAL CROWN RR BRIDGE NO NUMBER CE COMMERCIAL ENTRANCE OBLITERATE OBLIT C/L CENTER LINE PAVT **PAVEMENT** CENTRAL ANGLE OR DELTA PE PRIVATE ENTRANCE COB CENTER OF BARRIER POINT OF VERTICAL REVERSE CURVE **PVRC** CONC CONCRETE QOR QUARTER POINT OF RADIUS CULVERT PIPE REINFORCED CONCRETE RADIUS CULVERT PIPE REINFORCED CONCRETE REQ'D REQUIRED CPRCHE HORIZONTAL FILIPTICAL RES RESIDENCE OR RESIDENTIAL CR CREEK RHF RIGHT-HAND FORWARD CY **CUBIC YARD** R/W RIGHT-OF-WAY C&G **CURB AND GUTTER** RIVER R DEGREE OF CURVE D RDWY ROADWAY DHV DESIGN HOUR VOLUME R/L REFERENCE LINE DISCH DISCHARGE SALV SALVAGED DITCH GRADE DG SAN SANITARY SEWER DWY DRIVEWAY SQUARE FEET SF EAST GRID COORDINATE Χ SY SQUARE YARD STEEL PLATE BEAM GUARD ENERGY EAT SDD STANDARD DETAIL DRAWINGS ABSORBING TERMINAL EOR FND POINT OF RADIUS STA STATION **ELEVATION** SS STORM SEWER EL STORM SEWER PIPE REINFORCED FNT **ENTRANCE** SSPRC **EQUIVALENT SINGLE AXLE LOADS** CONCRETE **ESALS** SE SUPERELEVATION RATE EXC **EXCAVATION** TC TOP OF CURB EBS **EXCAVATION BELOW SUBGRADE** T OR TN TOWN **EXIST EXISTING** TRUCKS (PERCENT OF) FC FACE OF CURB

COUNTY CONTACT:

DNR AREA LIAISON:

1300 WEST CLAIREMONT AVENUE

EMAIL: AMYLLESIK@WISCONSIN.GOV

UTILITY CONTACT LIST:

EAU CLAIRE, WI 5470

TELEPHONE: 715.495.1903

ATTENTION: AMY LESIK

NTEC - COMMUNICATION

TELEPHONE: 715.672.4204

EMAIL: MATT@NTECFIBER.COM

ATTENTION: MATT HOYT

318 3RD AVENUE W

DURAND. WI 54736

BUFFALO COUNTY HIGHWAY DEPARTMENT S1672 STATE ROAD 37 ALMA. WI 54610 TELEPHONE: 608.685.6226 ATTENTION: JOHN DEWITT EMAIL: JOHN.DEWITT@BUFFALOCOUNTYWI.GOV

DNR WEST CENTRAL REGION HEADQUARTERS

WISDOT CONTACT:

WISCONSIN DEPT OF TRANSPORTATION NORTHWEST REGION 718 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 TELEPHONE: 715.833.5570 ATTENTION: TOU YANG FMAIL: TOU YANG@DOT WLGOV

RIVERLAND ENERGY COOPERATIVE - ELECTRIC

EMAIL: JABRAMCZAK@RIVERLANDENERGY.COM

N 28988 STATE ROAD 93

ARCADIA, WI 54612-0277

TELEPHONE: 608.323.3381

ATTENTION: JOSH ABRAMCZAK

P.O. BOX 277

DESIGN CONTACT:

SHORT ELLIOTT HENDRICKSON INC. 6808 ODANA ROAD, SUITE 200 MADISON, WI 53719-1137 TELEPHONE: 608 620 6192 ATTENTION: CHRIS BLUM EMAIL: CBLUM@SEHINC.COM

GENERAL NOTES:

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

RUNOFF COEFFICIENT TABLE

TYP

V/AR

VC

ΥD

TYPICAL

YARD

VARIARIF

VERTICAL CURVE

HWY: CTH KK

NORTH GRID COORDINATE

		HYDROLOGIC SOIL GROUP											
А			В			С			D				
	SLOP	E RANGE	(PERCENT)	SI	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPERANGE (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	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56	
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.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	DRIVES, WALKS .7585												
ROOFS .7595													
GRAVEL ROADS, SH	GRAVEL ROADS, SHOULDERS .4060												

TOTAL PROJECT AREA = 0.3 ACRES

PROJECT NO:

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.2 ACRES

7364-00-70

COUNTY: BUFFALO

GENERAL NOTES

FILE NAME: X:\AE\B\BUFFC\172839\C3D CTH KK 2022\sheets\SEC 02 Typ Sec & Details\020101_gn (General Notes).dwg

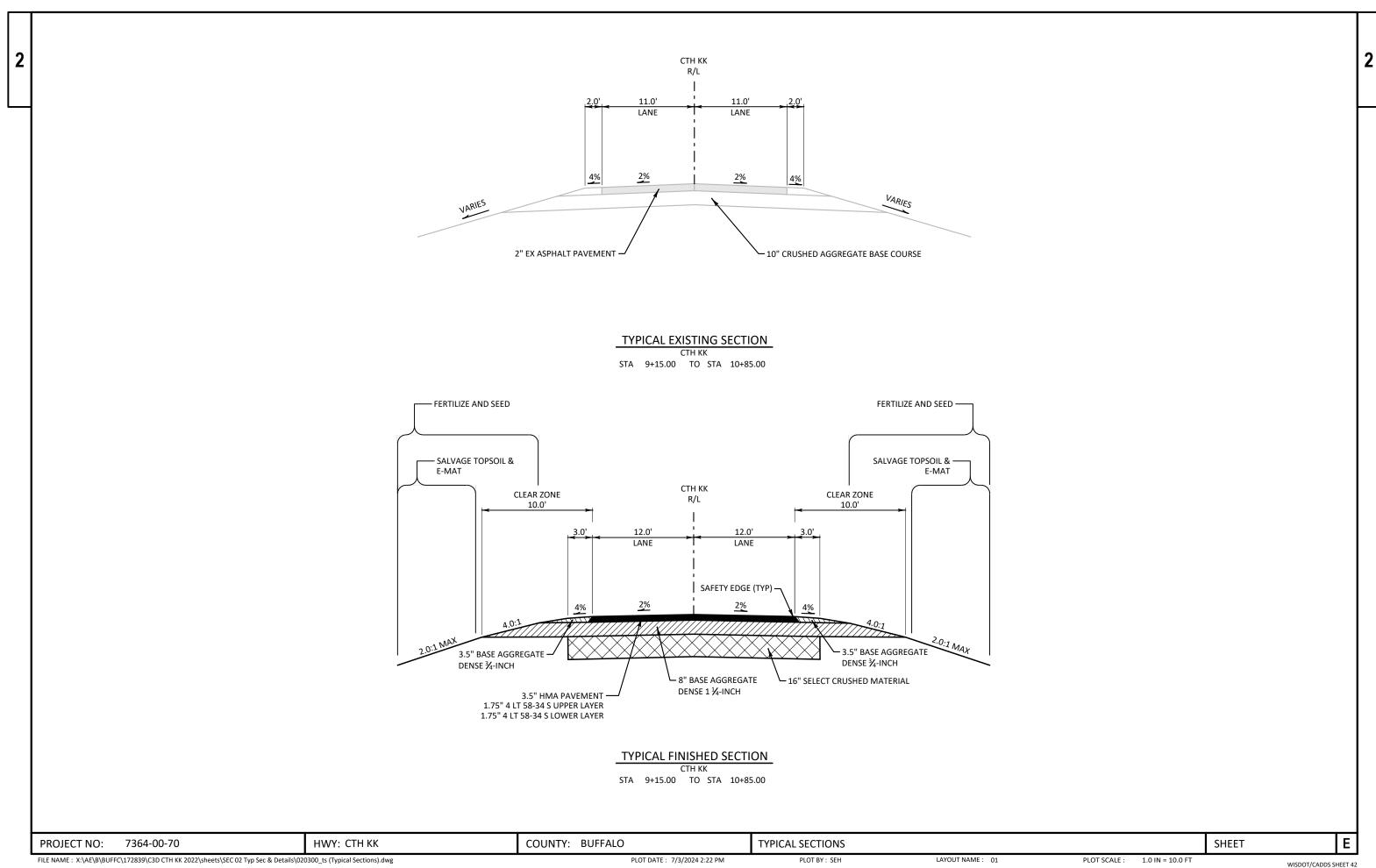
PLOT DATE: 10/17/2024 12:50 PM

LAYOUT NAME: 01

PLOT SCALE :

SHEET

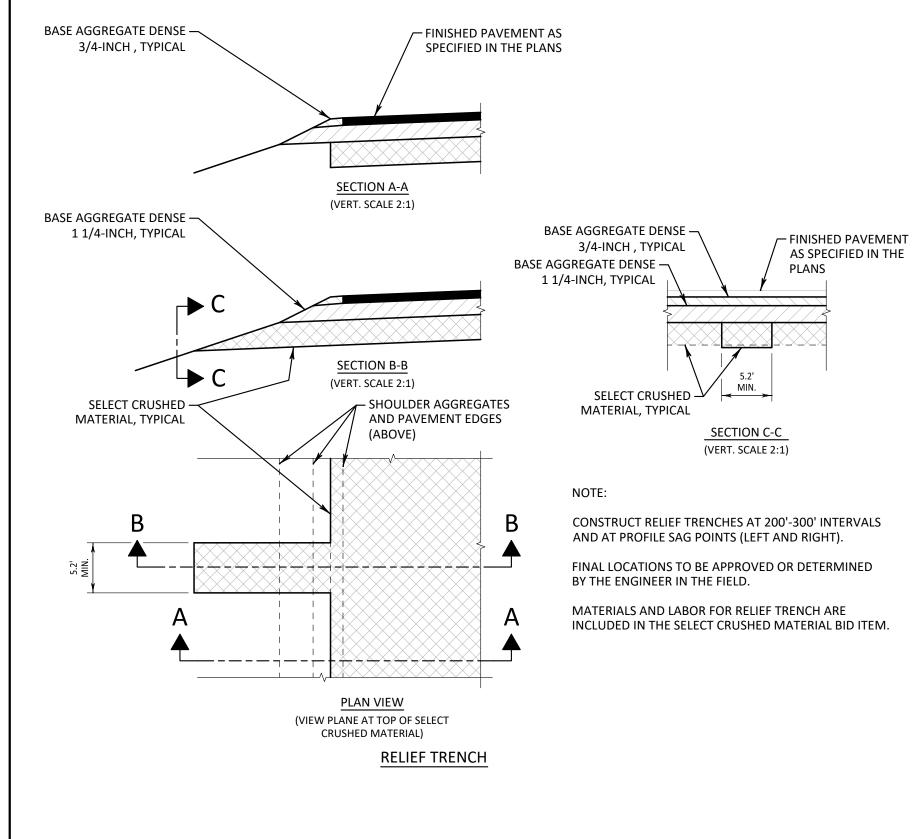
Dial or (800)242-8511 www.DiggersHotline.com



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

HWY: CTH KK

DENSE 3/4-INCH".



7364-00-70

PROJECT NO:

COUNTY: BUFFALO PLOT DATE: 7/3/2024 2:22 PM **CONSTRUCTION DETAILS** LAYOUT NAME: X01

PLOT SCALE: 1 IN:100 FT

Ε

SHEET

0096

0098

650.9911

650.9920

EACH

LF

1.000

135.000

1.000

135.000

3

					7364-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-06-0942	EACH	1.000	1.000
0004	205.0100	Excavation Common	CY	370.000	370.000
0006	205.0506.S	Excavation, Hauling, and Disposal of Creosote Contaminated Soil	TON	90.000	90.000
8000	206.1001	Excavation for Structures Bridges (structure) 01. B-06-0239	EACH	1.000	1.000
0010	210.1500	Backfill Structure Type A	TON	328.000	328.000
0012	213.0100	Finishing Roadway (project) 01. 7364-00-70	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	16.000	16.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	220.000	220.000
0018	312.0110	Select Crushed Material	TON	390.000	390.000
0020	455.0605	Tack Coat	GAL	30.000	30.000
0022	460.5244	HMA Pavement 4 LT 58-34 S	TON	90.000	90.000
0024	502.0100	Concrete Masonry Bridges	CY	122.000	122.000
0026	502.3200	Protective Surface Treatment	SY	169.000	169.000
0028	505.0400	Bar Steel Reinforcement HS Structures	LB	4,900.000	4,900.000
0030	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	17,520.000	17,520.000
0032	513.4061	Railing Tubular Type M	LF	74.000	74.000
0034	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000
0036	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	1,520.000	1,520.000
0038	606.0300	Riprap Heavy	CY	140.000	140.000
0038	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	154.000	154.000
0040	618.0100	Maintenance and Repair of Haul Roads (project) 01. 7364-00-70	EACH	1.000	1.000
0042	619.1000	Mobilization	EACH	1.000	1.000
0044	624.0100	Water	MGAL	20.000	20.000
0048 0050	625.0500 628.1504	Salvaged Topsoil Silt Fence	SY LF	370.000	370.000
				305.000	305.000
0052	628.1520	Silt Fence Maintenance	LF	610.000	610.000
0054	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0056	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0058	628.2027	Erosion Mat Class II Type C	SY	280.000	280.000
0060	628.6005	Turbidity Barriers	SY	220.000	220.000
0062	629.0210	Fertilizer Type B	CWT	0.200	0.200
0064	630.0120	Seeding Mixture No. 20	LB	7.000	7.000
0066	630.0200	Seeding Temporary	LB	7.000	7.000
0068	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0070	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0072	638.2602	Removing Signs Type II	EACH	4.000	4.000
0074	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0076	642.5001	Field Office Type B	EACH	1.000	1.000
0078	643.0420	Traffic Control Barricades Type III	DAY	720.000	720.000
0800	643.0705	Traffic Control Warning Lights Type A	DAY	1,120.000	1,120.000
0082	643.0900	Traffic Control Signs	DAY	560.000	560.000
0084	643.5000	Traffic Control	EACH	1.000	1.000
0086	645.0111	Geotextile Type DF Schedule A	SY	100.000	100.000
8800	645.0120	Geotextile Type HR	SY	260.000	260.000
0090	650.4500	Construction Staking Subgrade	LF	135.000	135.000
0092	650.5000	Construction Staking Base	LF	135.000	135.000
0094	650.6501	Construction Staking Structure Layout (structure) 01. B-06-0239	EACH	1.000	1.000

Construction Staking Supplemental Control (project) 01. 7364-00-70

Construction Staking Slope Stakes

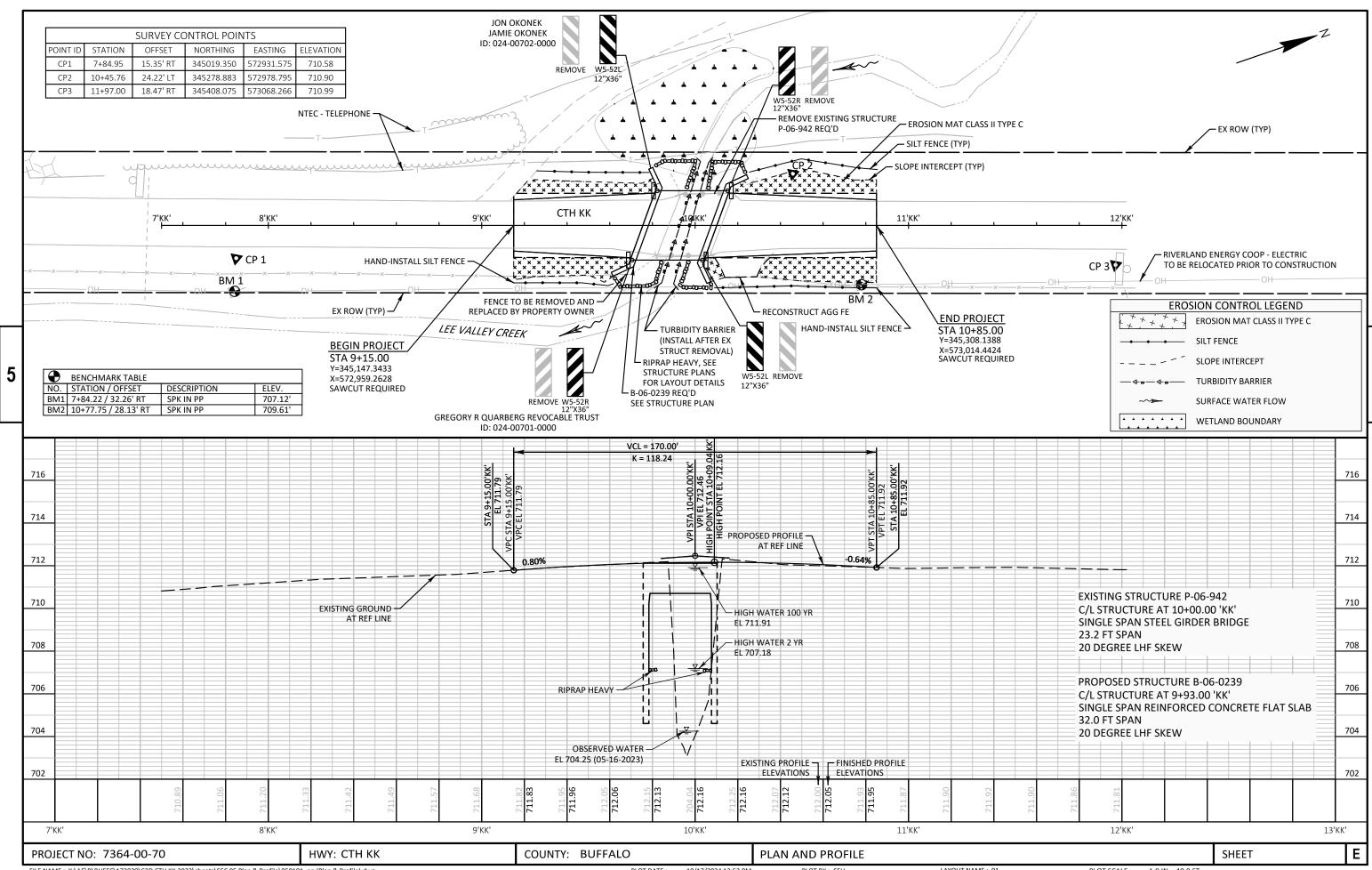
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Estimate Of Quantities Page		2
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					7364-00-70
Line	Item	Item Description	Unit	Total	Qty
0100	690.0150	Sawing Asphalt	LF	44.000	44.000
0102	715.0502	Incentive Strength Concrete Structures	DOL	732.000	732.000
0104	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0106	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0108	SPV.0090	Special 01. Flashing Stainless Steel	LF	70.000	70.000

Γ																	
		EARTHWORK 205.0100 EXCAVATION	AVAILABLE	EXPANDED	MASS			<u>STATION</u>	TO	STATION	BASE A	E 3/4-INCH [TON	305.0120 BASE AGGREGA DENSE 1 1/4-IN TON	TE SELECT CH MA -	2.0110 CRUSHED TERIAL TON	624.0100 WATER MGAL	_
	STATION LOCATION	COMMON (1) CY	MATERIAL (2) CY	FILL (3) CY	ORDINATE (+/-	4)		9+15 10+10	-	9+76 10+85		6	99 121		176 214	10 10	
	9+15 - 9+75 LT & RT		160	 19	141				- DRIVEWA			4	-	•	- -	-	
	10+10 - 10+85 LT & RT	202	192	30	162							16	220		390	20	
3	PROJECT TOTAL NOTES:	370	352	49	303			CONTAMINA	ATED SOI				Δ	SPHALTIC PA	VEMENT		
	1) UNUSABLE PAVEMENT MATERIA 2) AVAILABLE MATERIAL DOES NOT									– 5.0506.S N, HAULING, <i>A</i>	/ NID		Λ Ε	5.0605		*	
	3) EXPANSION FACTOR = 1.3	I INCLUDE UNUSAB	LE PAVEIVIENT EXC	AVAIION.						OF CREOSOT				K COAT	HMA PAV	460.5244 EMENT 4 I	
	(4) THE MASS ORDINATE + OR - QT		THE DIVISION. PLU	IS QUANTITY IN	DICATES AN		CTATION LO		CONTAN	MINATED SOIL		STATION		GAL		TON	
	EXCESS OF MATERIAL WITHIN THE	DIVISION.					9+75.67 LO	T/RT		TON 45		PROJECT ITEM TOTA		30		90 90	
	MINUS INDICATES A SHORTAGE OF	MATERIAL WITHIN	THE DIVISION.					T/RT		45							
										90		* TAPER ASPI	HALT FROM PRO	DJECT START/	'END TO CLE	AR WIDTH	OF BRIDGE.
					TOF	•	RTILIZER, AND SEI	630.0			i		ERO	SION CONTRO			
	MAINTENANCE AND REPAI	IR OF HAUL ROADS				625.0 SALVA				630.0200 EMPORARY			628.1504	628.1520 SILT FENCE		.2027 DN MAT	628.6005 TURBIDITY
	(7364-00-7	70)				TOPS				SEEDING			SILT FENCE	MAINTENAN			BARRIERS
	CATEGORY STATION	618.0100 EACH	<u> </u>	STATION	LOCATION	SY		LB	3	<u>LB</u>		STATION 9+16 - 9+81	LF 103	<u>LF</u> 206		SY 38	SY 85
	0030 PROJECT LENG			9+15 - 9+70 9+16 - 9+81	RT LT	66 54		1		1		10+16 - 10+85		282		31	85
	ITEM TOTAL	1	10	0+05 - 10+85	RT	95	0.05	2		2		UNDISTRIBUTE		122		51	50
				0+16 - 10+85 IDISTRIBUTED	LT LT/RT	77 79		2		2		ITEM TOTALS	305	610	2	80	220
				ITEM TO	· · · · · · · · · · · · · · · · · · ·	370		7		7							
	MOBILIZATIONS EROSION COI	NTROL 528.1910	-				PERMANI	ENT SIGNING			I						
		BILIZATIONS							34.0612 STS WOC		2230 TYPF II	638.2602 REMOVING	638.3000 REMOVING SN		SAWI	NG ASPHA	LT
	MOBILIZATIONS EM	-0.01011			SIZE				NCH X 12	2-FT REFLEC	CTIVE F	SIGNS TYPE II	SIGN SUPPO	RTS			690.0150
			<u>TATION LOCATI</u> 9+70 RT	ON SIGN COD W5-52-R		(INCH) 36	MESSAGE CLEARANCE STR	IPFR	EACH 1		<u>SF</u> 3	EACH 1	EACH 1		ATION L 9+15	OCATION LT/RT	<u>LF</u> 22
		EACH	9+81 LT	W5-52-L	12	36	CLEARANCE STR	IPER	1		3	1	1		0+85	LT/RT	22
	PROJECT LENGTH 5	າ I	10+05 RT 10+16 LT	W5-52-L W5-52-R			CLEARANCE STR CLEARANCE STR		1		3	1	1		ITEM TOT	ALS	44
	ITEM TOTALS 5	3	10+10 L1		JECT TOTAL	30	CLEARANCE STR	IFEN	4	`	.2	4	4				
			TRAFFIC CONT	ROL								221		IZINIC			
			643.	 0420	643.0		643.090				6		ISTRUCTION STA	KING 550.6501	650.991	11 f	650.9920
			TRAFFIC (BARRI	CONTROL CADES	TRAFFIC CO WARNING		TRAFFI CONTRO	I					S	TRUCTURE	SUPPLEME	NTAL	
		APPROX. SERVIC	E TYP	PE III	TYPE	A	SIGNS	5			SL	JBGRADE	D, 10 L	LAYOUT -06-0239)	CONTRO (7364-00-		OPE STAKES
	STAGE PROJECT LOCATION 1 PROJECT LENGTH	PERIOD DAYS 40		ΔΥ QT` 20 28			QTY. DAY 14 560		9	STATION		LF	LF (L	EACH	EACH	•	LF
	T FINOJECI LENGIA	PROJECT TOTA		20 20 20	1,12		560	-		ECT LENGTH		135	135	1	1		135
	NOTE: BID ITEMS ARE UNDER CATE	GORY 0010 LINI FSS	S OTHERWISE NOT	FD.					PRO.	JECT TOTAL		135	135	1	1		135
⊢	PROJECT NO: 7364-00-70		WY: CTH KK		COUNTY:	BUFFAI	0	М	ISCELLANI	EOUS QUANTIT	TIES				SH	HEET	E
L	ILE NAME : X:\AE\B\BUFFC\172839\C3D CTH KK 2022\SHEI				1 3			024 9:26 AM	PLOT			PLOT NAME :	PLO	OT SCALE : 1" = 1			WISDOT/CADDS SHEET 42

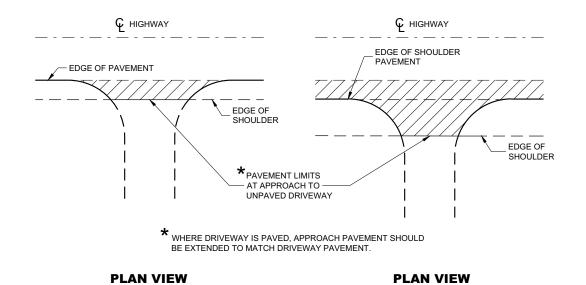
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Standard Detail Drawing List

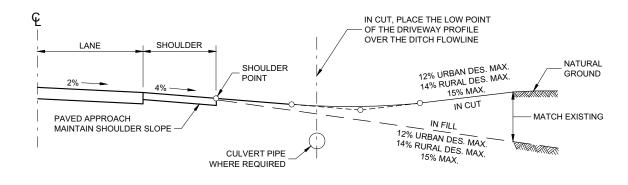
08D21-01 DRIVEWAYS WITHOUT CURB & GUTTER 08E09-06 SILT FENCE 08E11-02 TURBIDITY BARRIER 12A03-10 NAME PLATE (STRUCTURES) 13C19-03 HMA LONGITUDINAL JOINTS 15C02-09A BARRICADES AND SIGNS FOR MAINLINE CLOSURES 15C02-09B BARRICADES AND SIGNS FOR VARIOUS CLOSURES 15C03-05 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES 15C06-12 SIGNING & MARKING FOR TWO LANE BRIDGES 15C11-10A CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST 15C11-10B CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS		
08E11-02 TURBIDITY BARRIER 12A03-10 NAME PLATE (STRUCTURES) 13C19-03 HMA LONGITUDINAL JOINTS 15C02-09A BARRICADES AND SIGNS FOR MAINLINE CLOSURES 15C02-09B BARRICADES AND SIGNS FOR VARIOUS CLOSURES 15C03-05 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES 15C06-12 SIGNING & MARKING FOR TWO LANE BRIDGES 15C11-10A CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
12AO3-10 NAME PLATE (STRUCTURES) 13C19-03 HMA LONGITUDINAL JOINTS 15C02-09A BARRICADES AND SIGNS FOR MAINLINE CLOSURES 15C02-09B BARRICADES AND SIGNS FOR VARIOUS CLOSURES 15C03-05 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES 15C06-12 SIGNING & MARKING FOR TWO LANE BRIDGES 15C11-10A CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	08E09-06	SILT FENCE
13C19-03 HMA LONGITUDINAL JOINTS 15C02-09A BARRICADES AND SIGNS FOR MAINLINE CLOSURES 15C02-09B BARRICADES AND SIGNS FOR VARIOUS CLOSURES 15C03-05 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES 15C06-12 SIGNING & MARKING FOR TWO LANE BRIDGES 15C11-10A CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	08E11-02	TURBIDITY BARRIER
15C02-09A BARRICADES AND SIGNS FOR MAINLINE CLOSURES 15C02-09B BARRICADES AND SIGNS FOR VARIOUS CLOSURES 15C03-05 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES 15C06-12 SIGNING & MARKING FOR TWO LANE BRIDGES 15C11-10A CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	12A03-10	NAME PLATE (STRUCTURES)
15C02-09B BARRICADES AND SIGNS FOR VARIOUS CLOSURES 15C03-05 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES 15C06-12 SIGNING & MARKING FOR TWO LANE BRIDGES 15C11-10A CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	13C19-03	HMA LONGITUDINAL JOINTS
15CO3-O5 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES 15CO6-12 SIGNING & MARKING FOR TWO LANE BRIDGES 15C11-10A CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-12 SIGNING & MARKING FOR TWO LANE BRIDGES 15C11-10A CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	15С02-09В	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C11-10A CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
	15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10B CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS	15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
	15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6

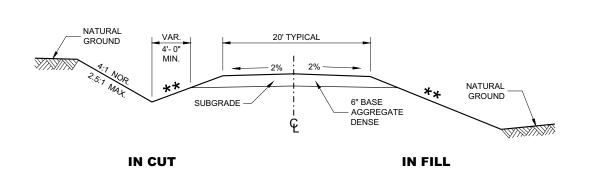


RURAL DRIVEWAY INTERSECTION DETAIL (NO CURB AND GUTTER OR SIDEWALK)

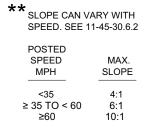
(PAVED SHOULDER ON HIGHWAY)

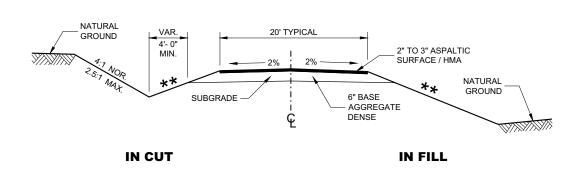


TYPICAL DRIVEWAY PROFILES



(UNPAVED SHOULDER ON HIGHWAY)





TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

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

DRIVEWAYS WITHOUT CURB AND GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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08D21

SD

SDD 08D21

6

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

TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK

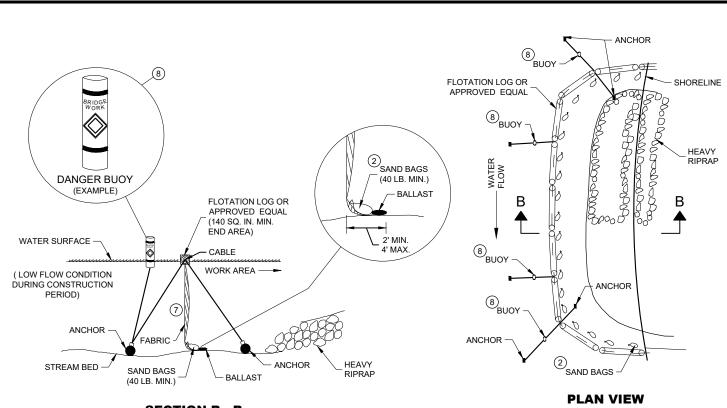
(WHEN REQUIRED BY THE ENGINEER)



6

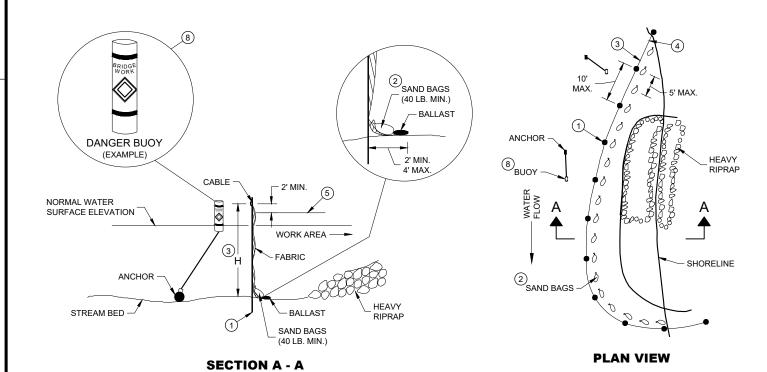
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D.D. 8 E 9-6



SECTION B - B

TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

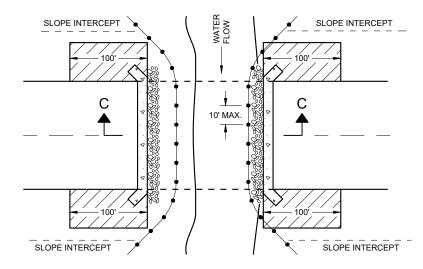
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

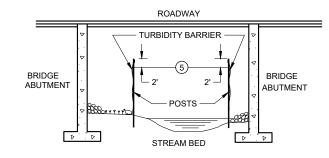
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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 APPROVED
 /S/ Beth Cannestra

 6/4/02
 /S/ Beth Cannestra

 DATE
 CHIEF ROADWAY DEVELOPMENT ENGINEER





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

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



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

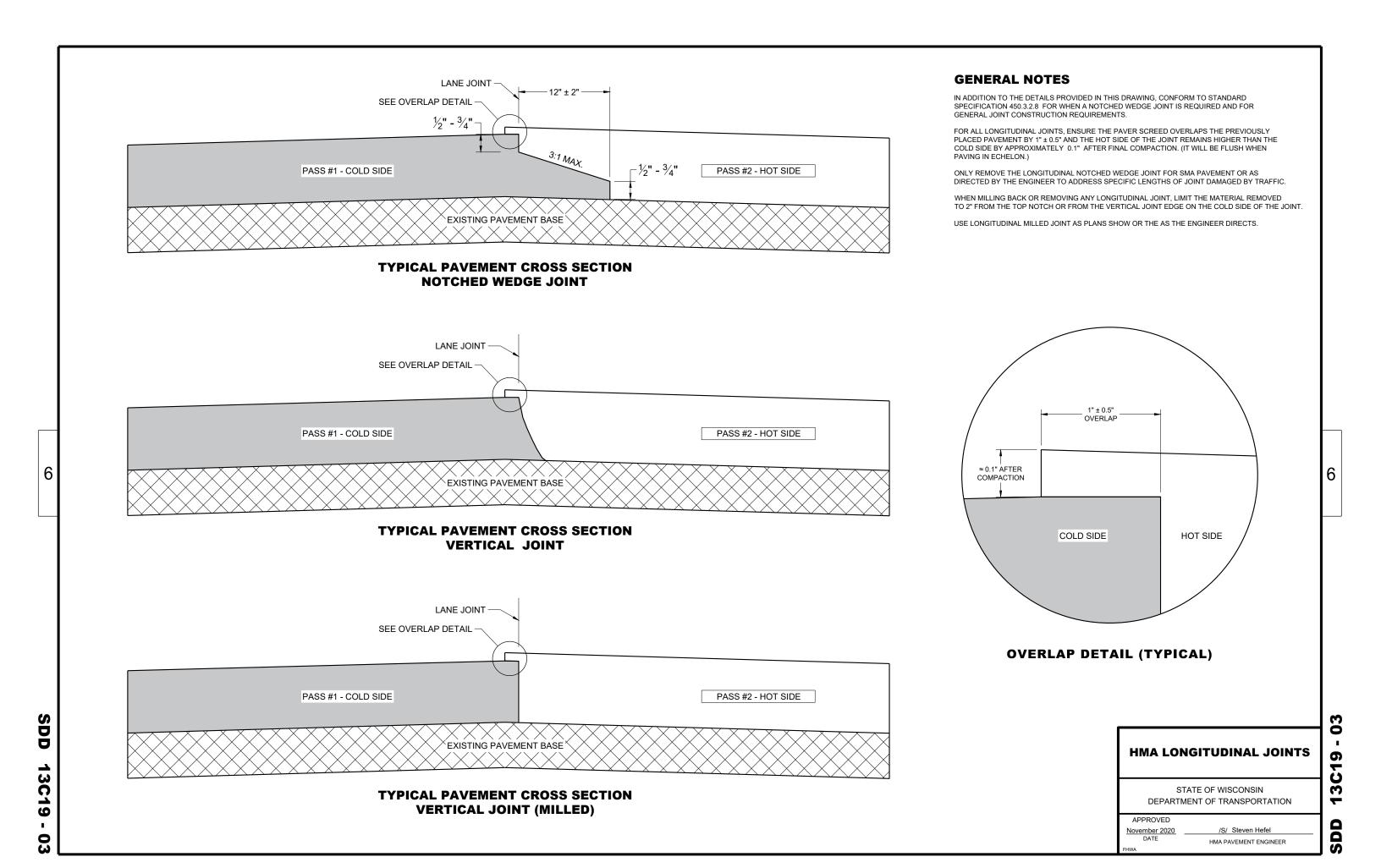
APPROVED

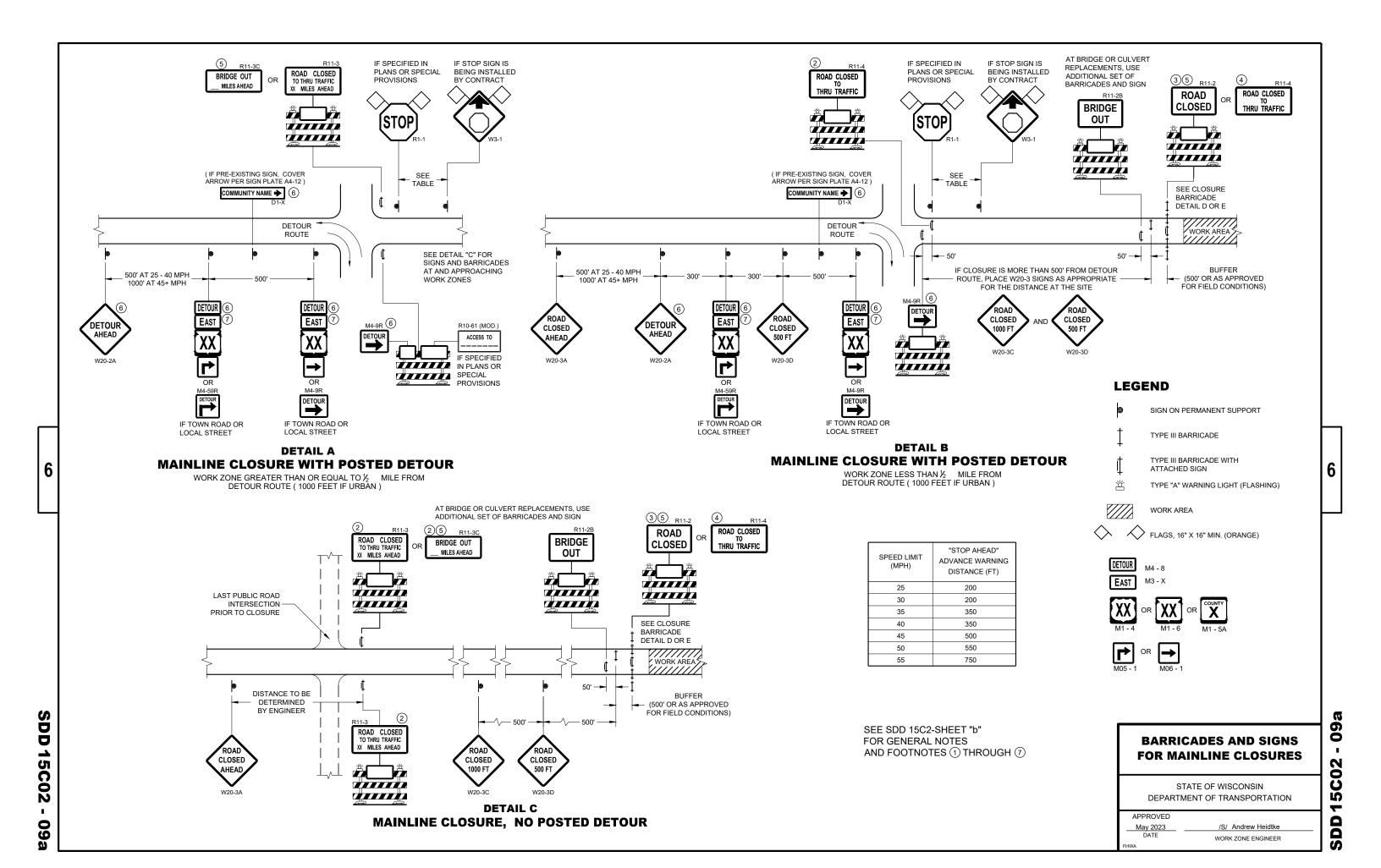
3/26/IO /S/ Scot Becker

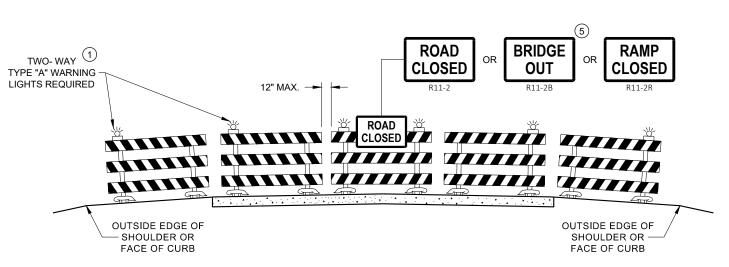
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

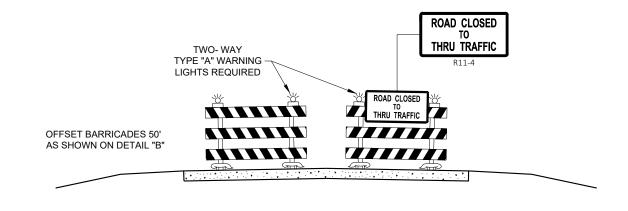
3-10







DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



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

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

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

R1 - 1 SHALL BE 36" X 36"

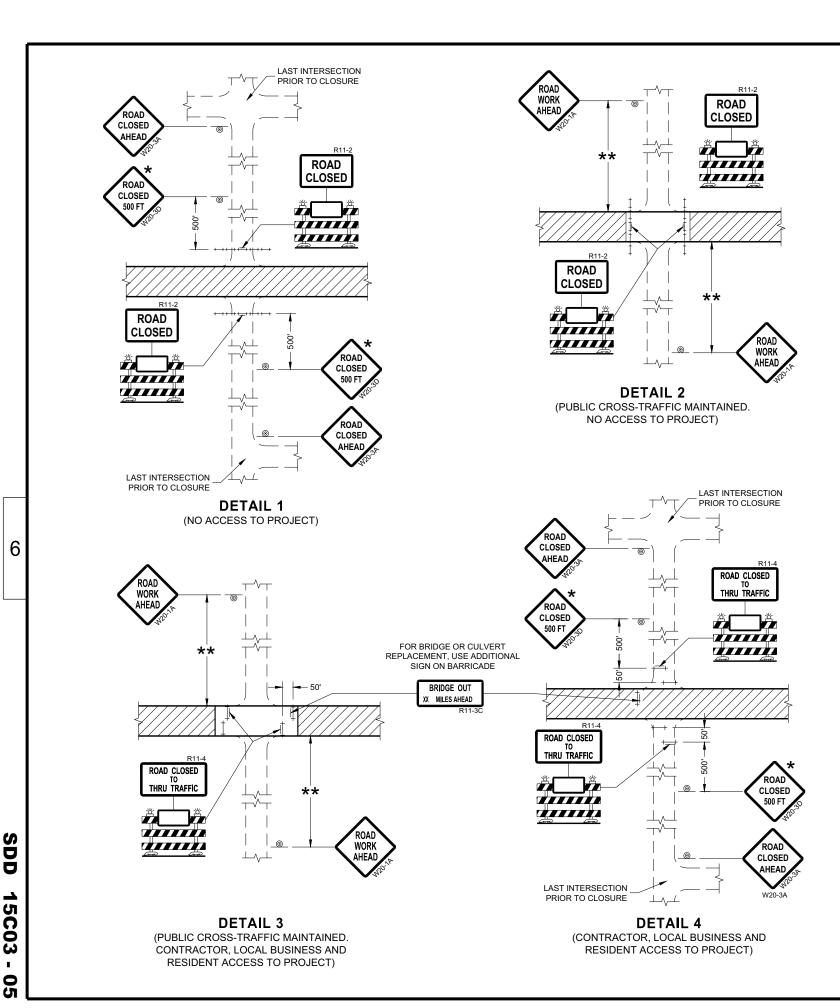
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS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

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

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GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

BARRICADES AND SIGNS FOR **SIDEROAD CLOSURES**

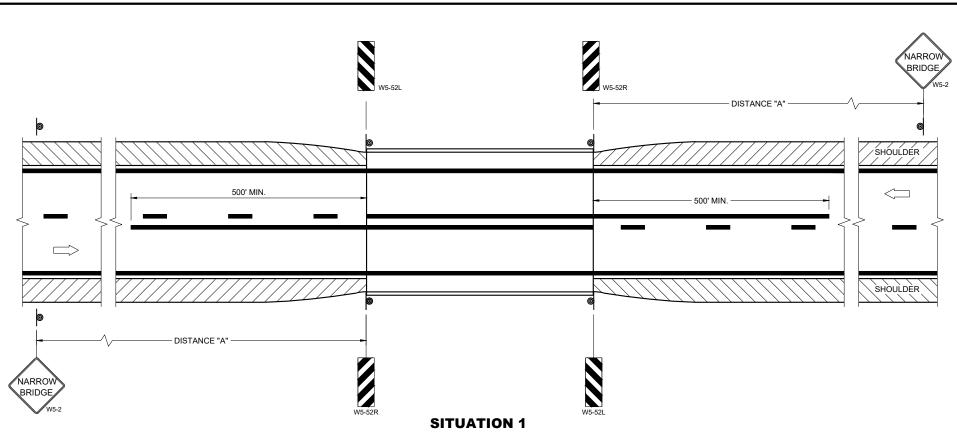
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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SDD 15C06-12



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

OR SHOULDER SHOULDER WS-52R WS-52L

SITUATION 2

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

SDD

15C06-12

GENERAL NOTES

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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

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

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

GENERAL NOTES

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

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

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

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

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER Ŋ

SDD

SDD 15C11

2" MAX.

4" MAX.

- WHITE 360° REBOUNDABLE
REFLECTIVE SHEETING

- FLEXIBLE ORANGE POST

FLUORESCENT ORANGE

The state of the state o

FLEXIBLE TUBULAR

FLEXIBLE TUBULAR

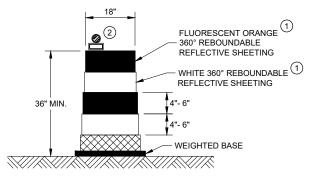
MARKER POST

WORK ZONE

SDD 15C11

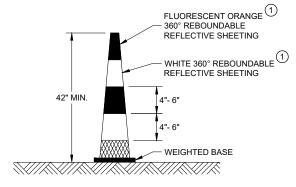
GENERAL NOTES

- (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.



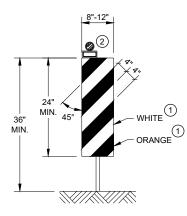
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



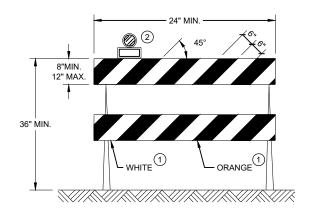
42" CONE

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



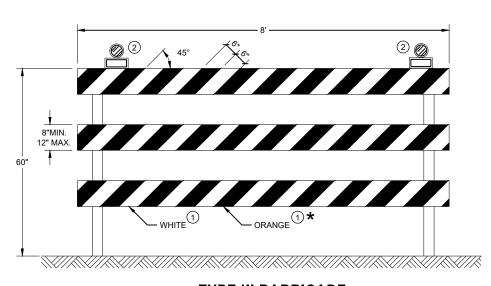
VERTICAL PANEL

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





RURAL AREA (See Note 2)



GENERAL NOTES

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

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

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

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



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

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

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

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. _A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



ELEVATION VIEW

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



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42





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



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

HWY:

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

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

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

Ε

CUEET NO.

SHEET NO:

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

PROJECT NO:

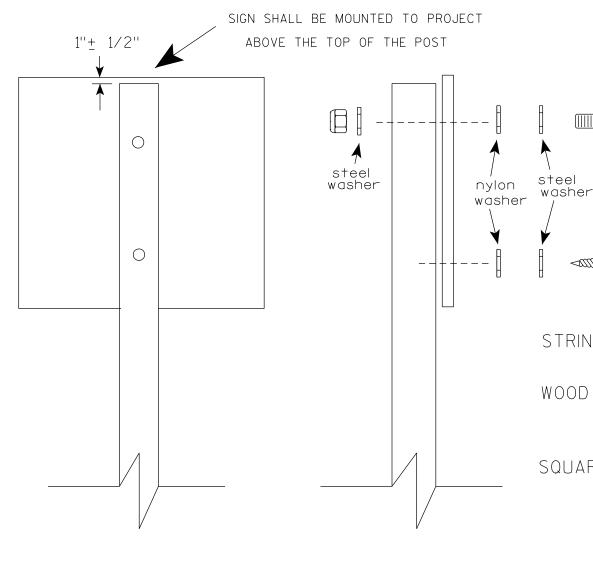
COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

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



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

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

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

PROJECT NO:



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

DATE 2/05/15

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

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

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

CHANNEL

GENERAL NOTES

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

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

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

PROJECT NO:

VIEW FROM TOP

GENERAL NOTES

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

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

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Manher R

APPROVED

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

SHEET NO:

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

PROJECT NO:

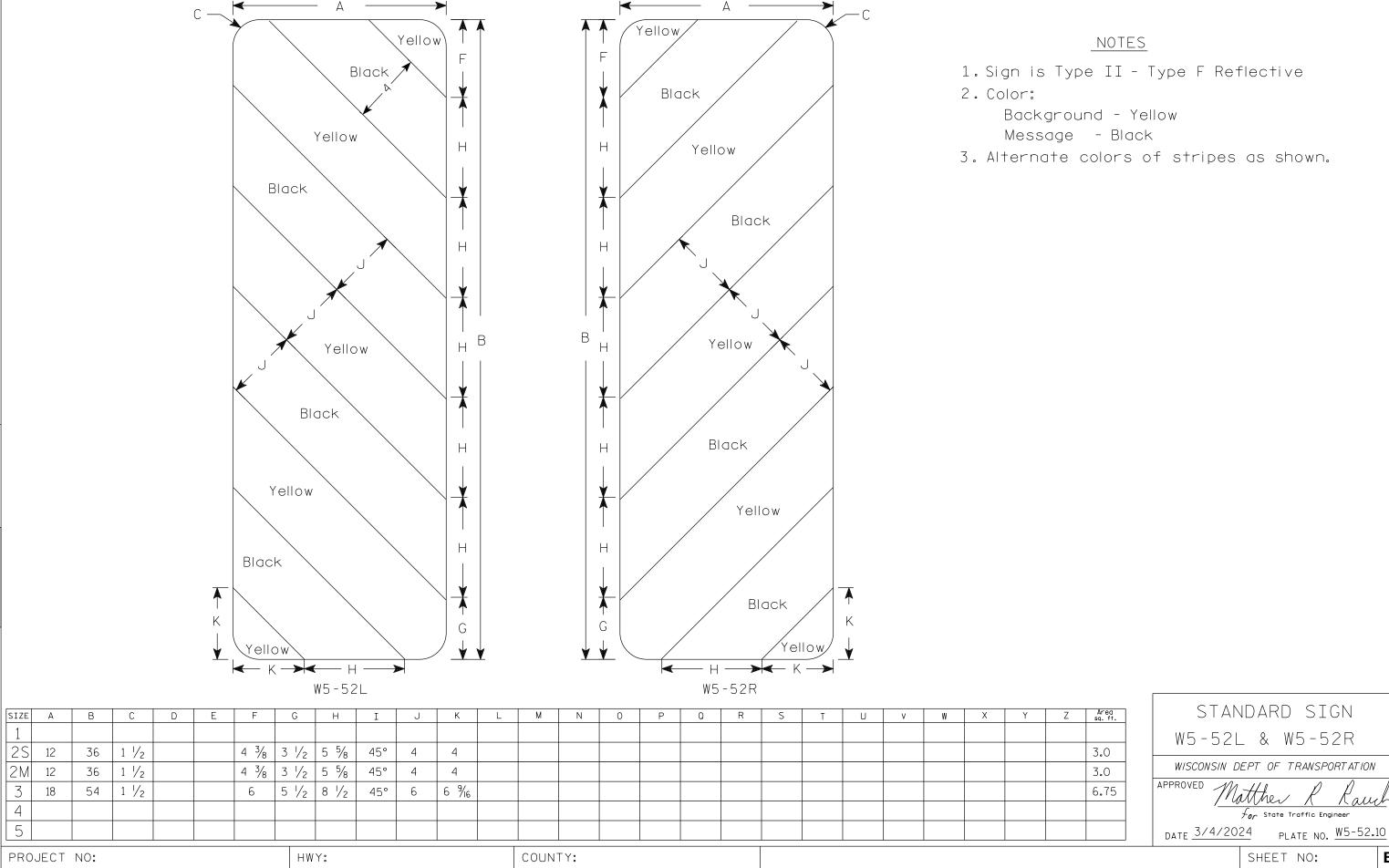
PLOT DATE: 19-APRIL 2022 11:55

SIGN

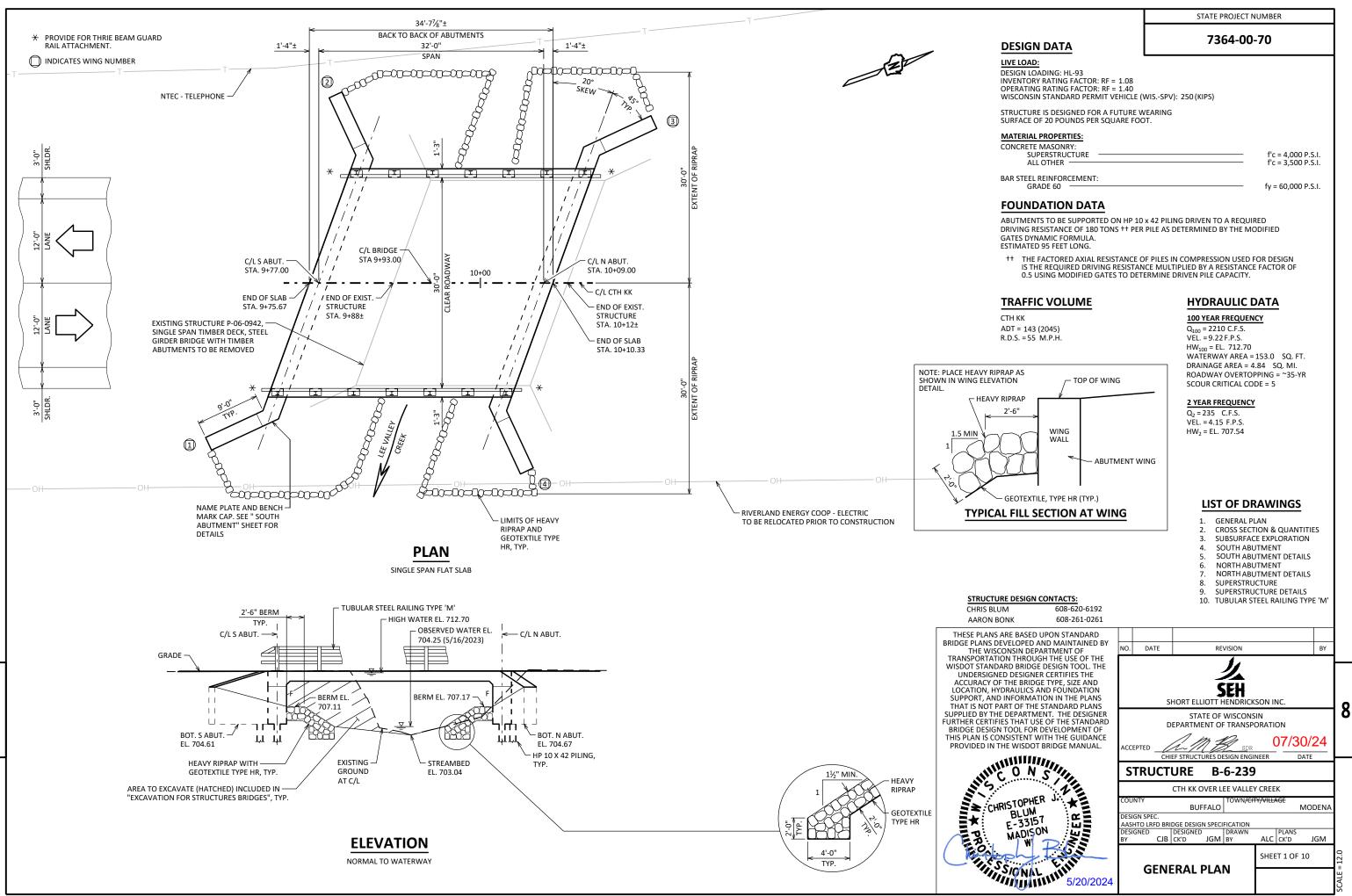
PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

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



GENERAL NOTES

7364-00-70

DRAWINGS SHALL NOT BE SCALED.

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

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

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-06-0239" SHALL BE THE EXISTING

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

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP

AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS. AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN

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

ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

PROTECTIVE SURFACE

TREATMENT LIMITS

TUBULAR STEEL RAILING TYPE 'M'

FLASHING STAINLESS STEEL (TYP.)

1'-3"

3'-0"

SHLD.

- BOTTOM OF ABUTMENT

CROSS SECTION THRU ROADWAY

32'-6" OUT TO OUT OF SUPERSTRUCTURE

30'-0"

CLEAR BETWEEN BARRIERS

12'-0'

LANE

TOP OF BERM

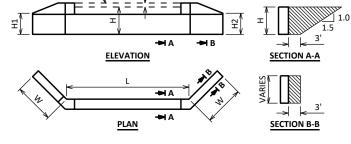
C/L CTH KK

12'-0"

LANE

POINT REFERRED TO ON -PROFILE GRADE LINE

> LOOKING UPSTATION (PILING NOT SHOWN FOR CLARITY)



1'-3"

3'-0" SHLD.

ABUTMENT BACKFILL DIAGRAM

- = ABUTMENT BODY LENGTH AT BACKFACE (FT) = AVERAGE ABUTMENT FILL HEIGHT (FT)
- = WING 1 HEIGHT AT TIP (FT)
- = WING 2 HEIGHT AT TIP (FT)
- = WING LENGTH (FT)
- = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
- = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)
- $V_{CY} = V_{CF}(EF)/27$

TOP OF PAVEMENT

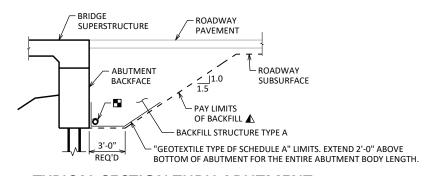
VCL = 170.00' K = 118.24**PROFILE GRADE LINE**

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	SOUTH ABUT.	NORTH ABUT.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS P-06-0942	EACH				1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-06-0239	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON		164	164	328
502.0100	CONCRETE MASONRY BRIDGES	CY	64	29	29	122
502.3200	PROTECTIVE SURFACE TREATMENT	SY	141	14	14	169
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2,450	2,450	4,900
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	14,500	1,510	1,510	17,520
513.4061	RAILING TUBULAR TYPE M	LF	74			74
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		7	7	14
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		760	760	1,520
606.0300	RIPRAP HEAVY	CY		70	70	140
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		77	77	154
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		50	50	100
645.0120	GEOTEXTILE TYPE HR	SY		130	130	260
SPV.0090.01	FLASHING STAINLESS STEEL	LF	70			70
	NON-BID ITEMS					
	FILLER	SIZE				1/2", 3/4"
	NAMEPLATE	EACH	1			1
	BENCHMARK	EACH	1			1

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

PROTECTIVE SURFACE TREATMENT DETAILS

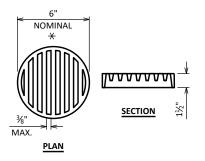


TYPICAL SECTION THRU ABUTMENT

- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

BENCH MARK

NO.	STATION/OFFSET	ELEV.	
BM 1	7+84.22, 32.26' RT	SPK IN PP	707.12'
BM 2	10+77.75, 28.13' RT	SPK IN PP	709.61'

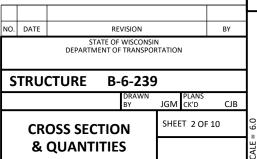


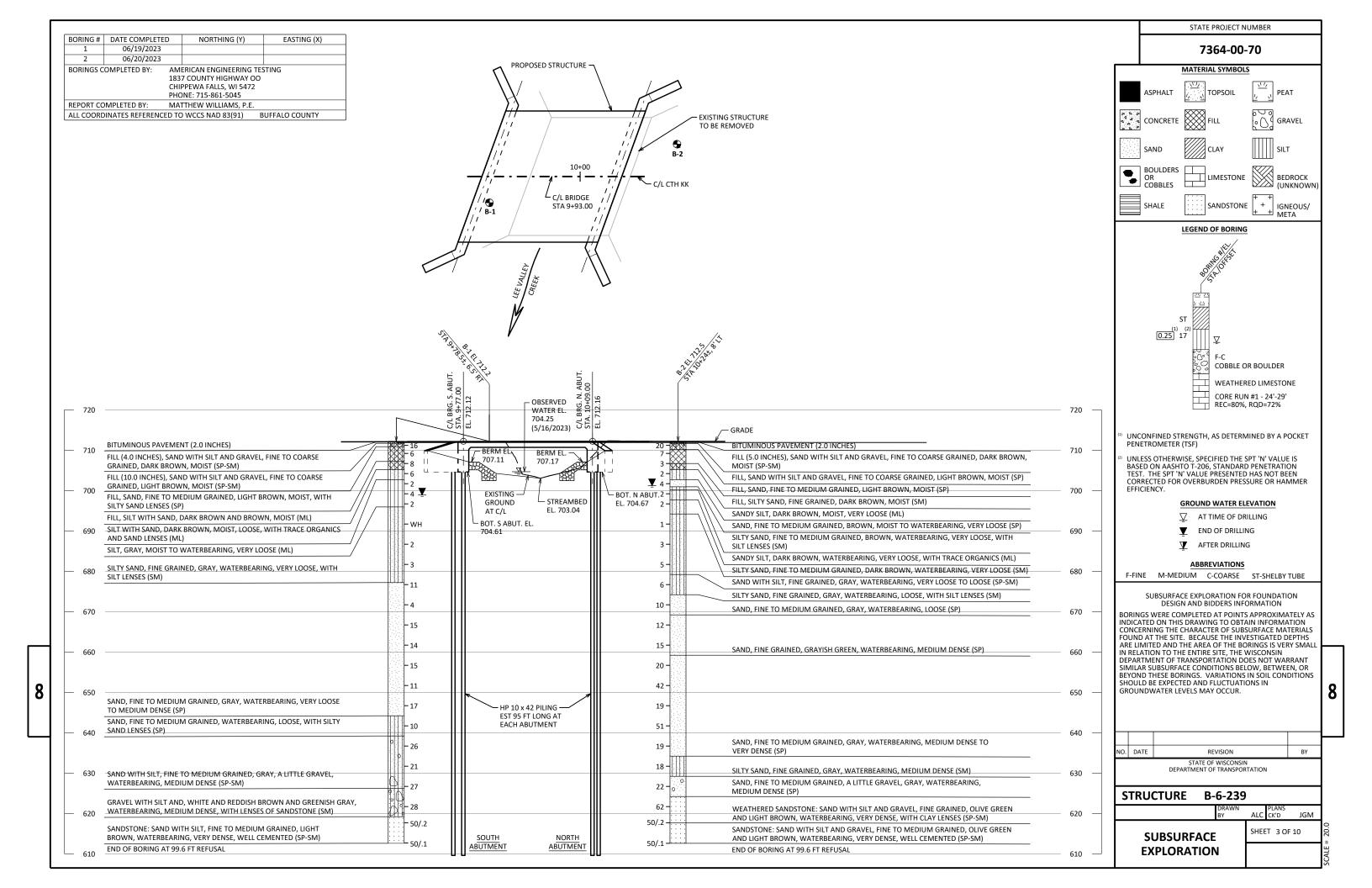
RODENT SHIELD DETAIL

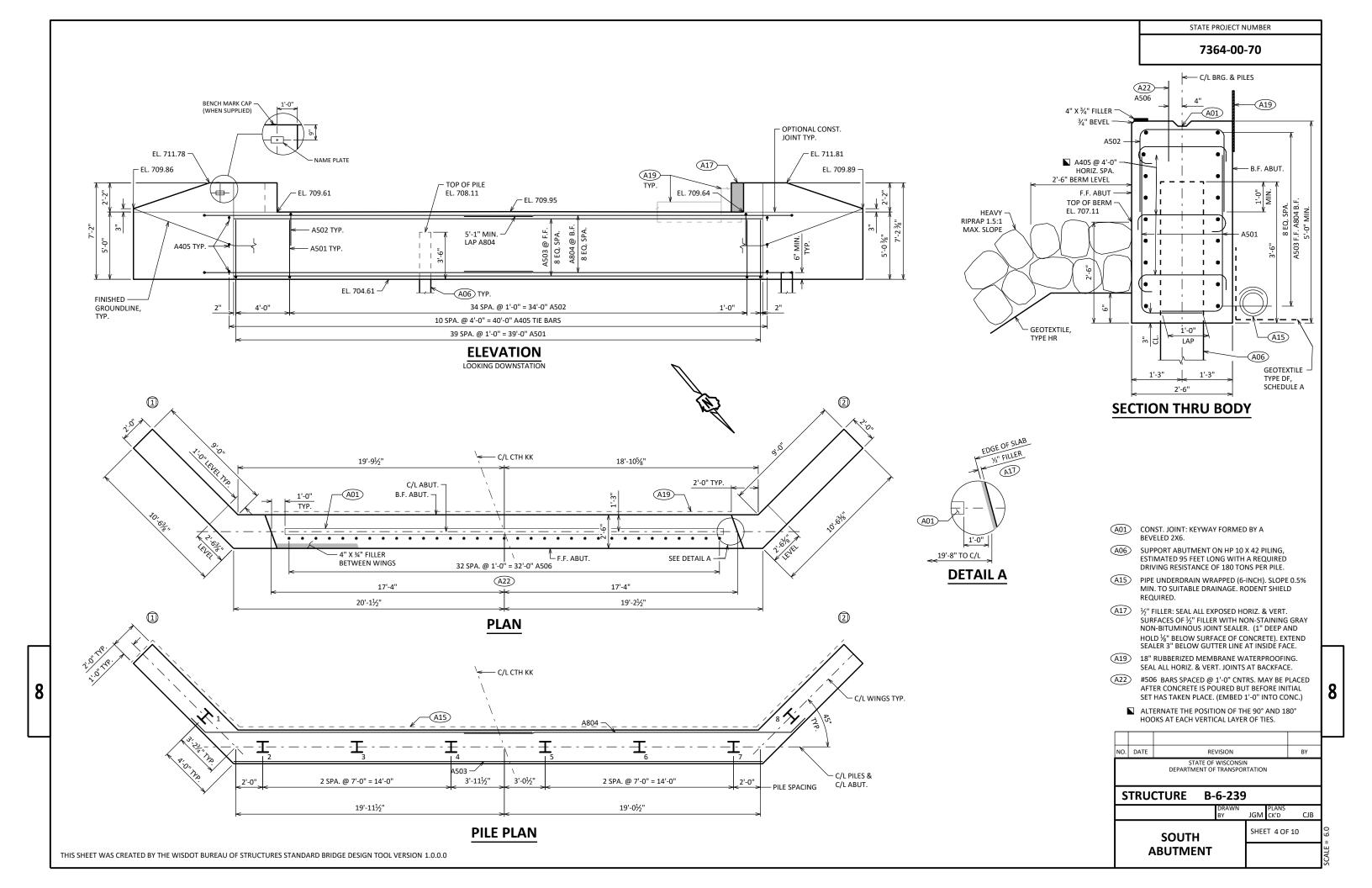
★ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

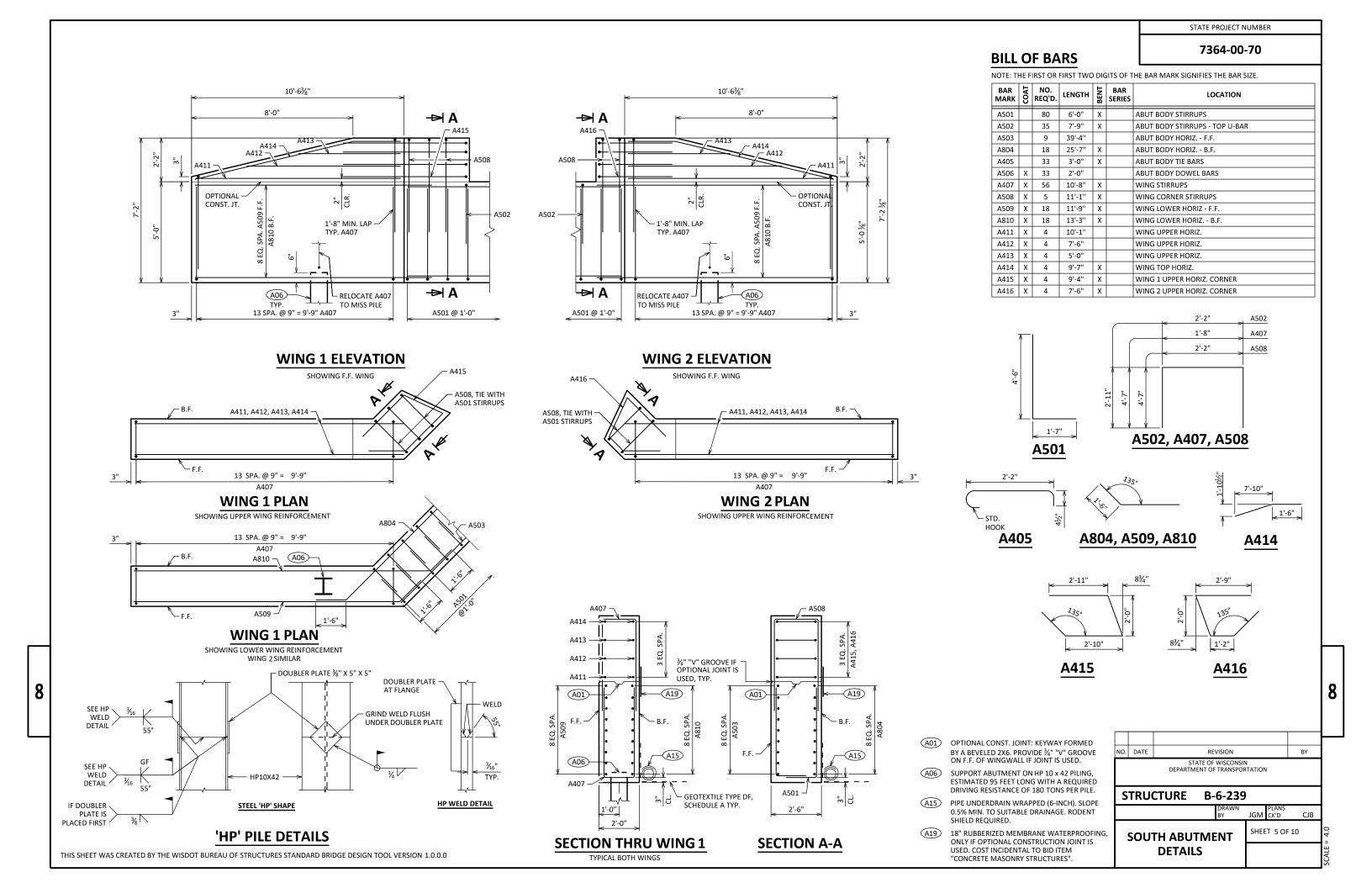
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

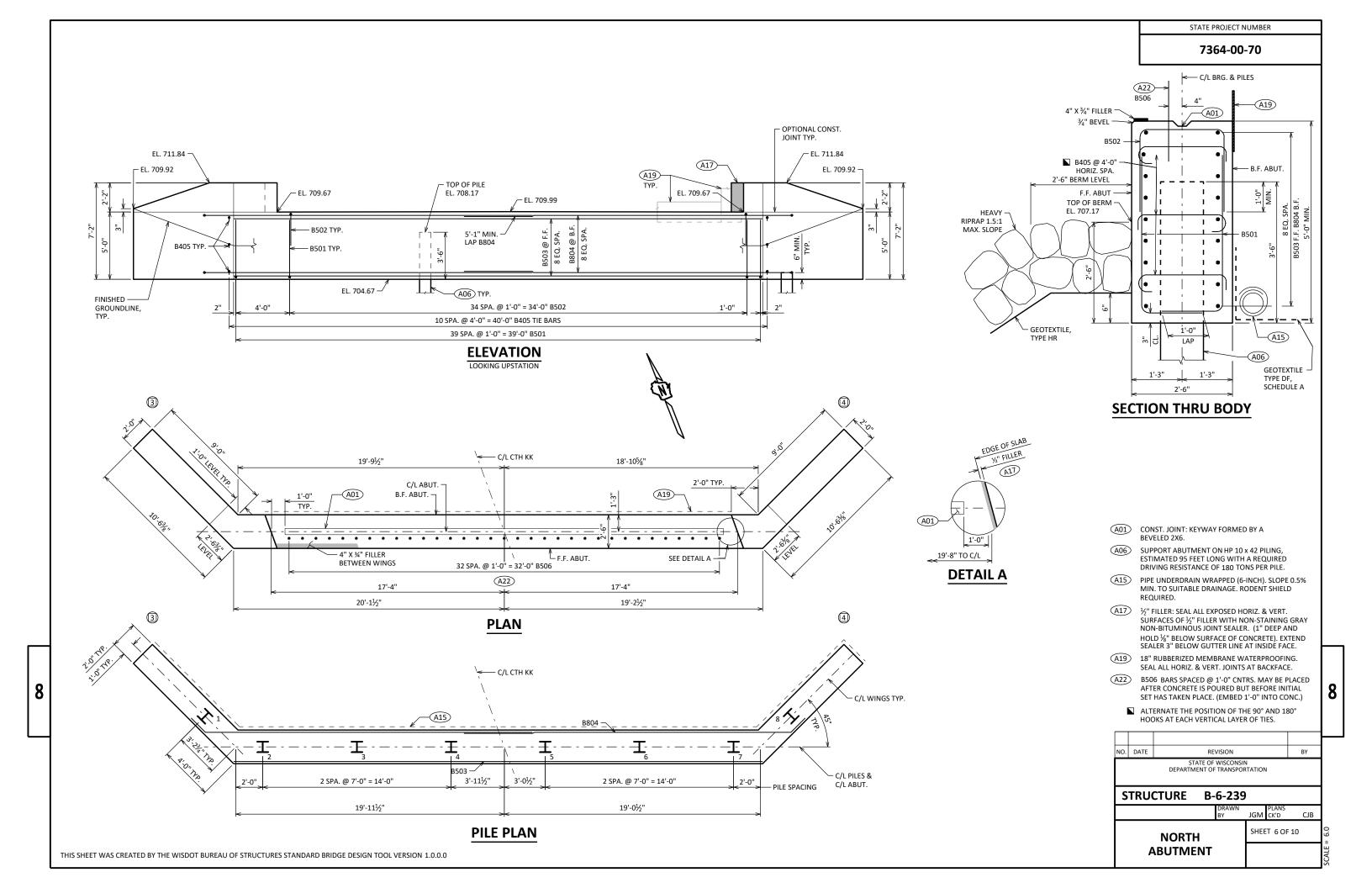
THE RODENT SHIFLD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X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

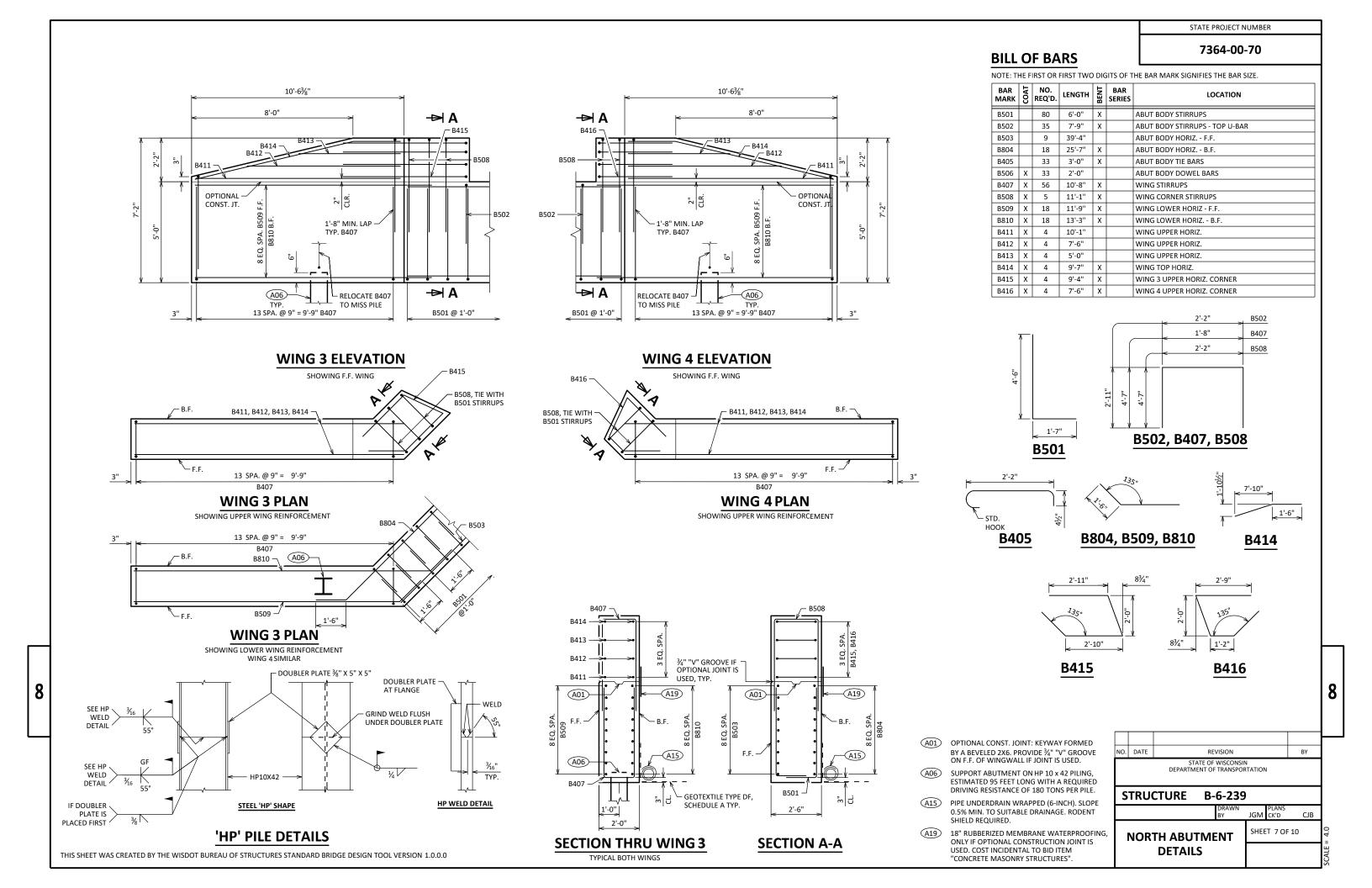


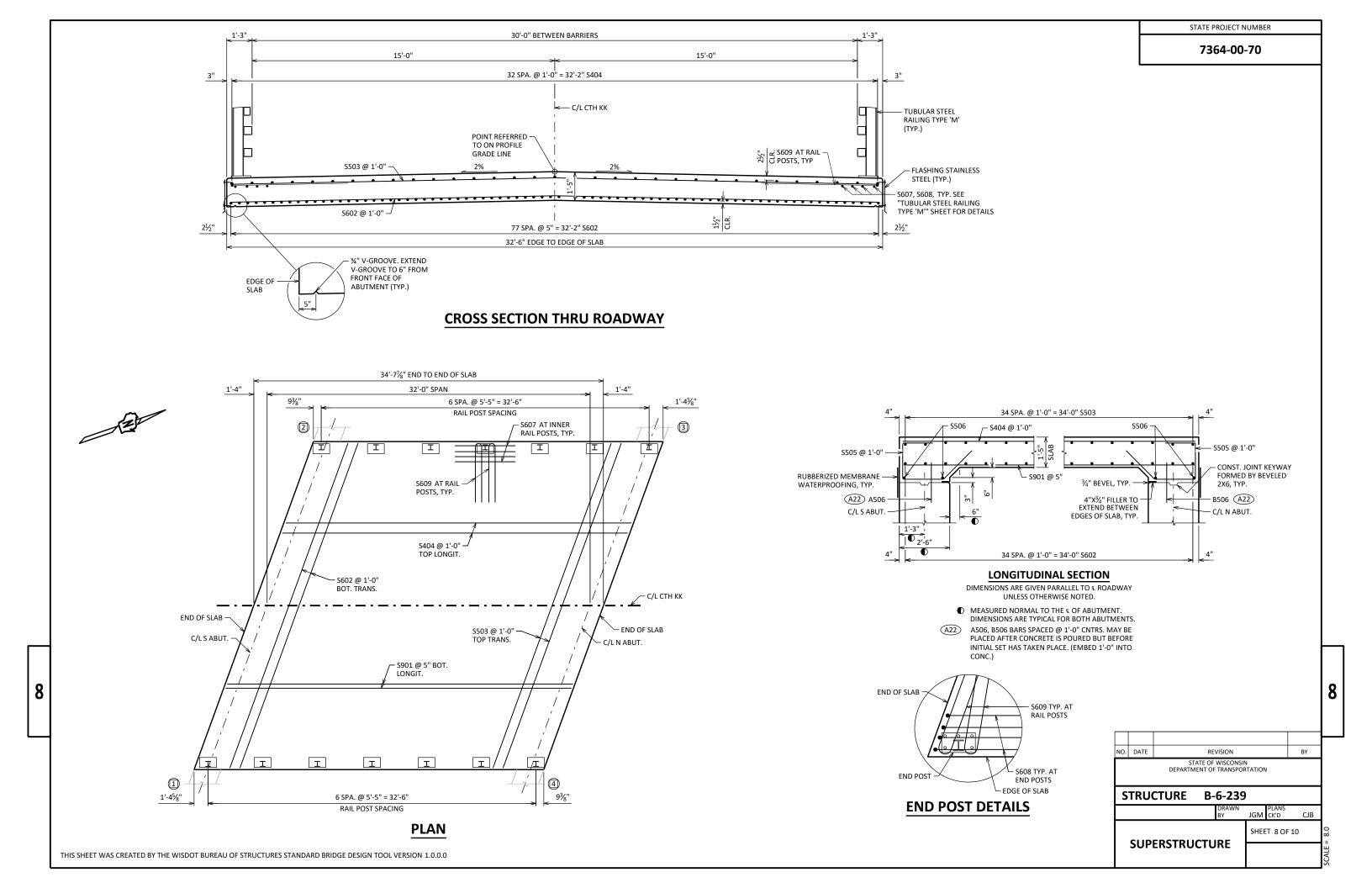










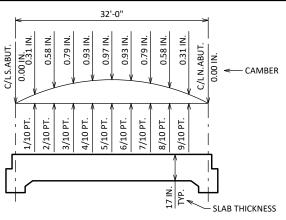


7364-00-70

BILL OF BARS

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

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION			
S901	Х	78	34'-3"			SLAB BOTTOM LONGITUDINAL			
S602	Х	35	34'-3"			SLAB BOTTOM TRANSVERSE			
S503	Х	35	34'-3"			SLAB TOP TRANSVERSE			
S404	Х	33	34'-3"			SLAB TOP LONGITUDINAL			
S505	Х	66	7'-1"	Х		ABUTMENT DIAPHRAGM STIRRUPS			
S506	Х	4	34'-3"			ABUTMENT DIAPHRAGM LONGITUDINAL			
S607	Х	40	6'-0"			SLAB TOP LONGIT. UNDER RAIL POSTS			
S608	Х	16	4'-8"	Х		SLAB TOP LONGIT. UNDER RAIL END POSTS			
S609	Х	28	12'-0"	Х		SLAB TOP HOOKS UNDER RAIL POSTS			



CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT PARAPETS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED, EXCEPT FOR STAGED CONSTRUCTION.

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

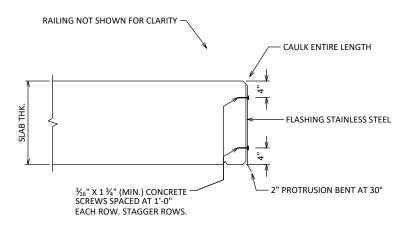
TOP OF SLAB ELEVATION AT FINAL GRADE SLAB THICKNESS

PLUS

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

TOP OF SLAB ELEVATIONS

LOCATION	C/L BRG. S. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L BRG. N. ABUT.
W. EDGE OF DECK	711.81	711.82	711.82	711.83	711.83	711.84	711.84	711.84	711.84	711.84	711.84
CROWN OR R/L	712.12	712.13	712.13	712.14	712.15	712.15	712.15	712.16	712.16	712.16	712.16
E. EDGE OF DECK	711.78	711.79	711.80	711.81	711.81	711.82	711.83	711.83	711.84	711.84	711.84



FLASHING DETAIL FOR NEW BRIDGES WITH OPEN RAILING

THE BID ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING, CAULK, $\%_6$ " CONCRETE SCREWS AND CLEANING THE EDGE OF THE DECK PRIOR TO THE ATTACHMENT OF THE FLASHING.

FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE TREATMENT APPLICATION.

CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

EXTEND FLASHING TO B.F. OF ABUTMENT DIAPHRAGM.

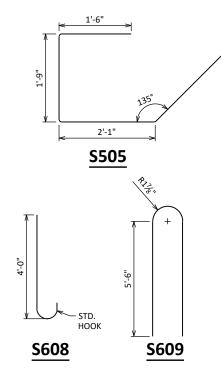
TOP OF FLASHING TO BEGIN APPROX. 1-INCH BELOW TOP OF DECK/SLAB SURFACE.

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

PROVIDE 2" MINIMUM FLASHING OVERLAP, FASTEN WITH 3/16" X 2" (MIN.) CONCRETE SCREWS.

CAULK SHALL BE NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER.

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



SURVEY TOP OF SLAB ELEVATIONS

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

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

NOTES

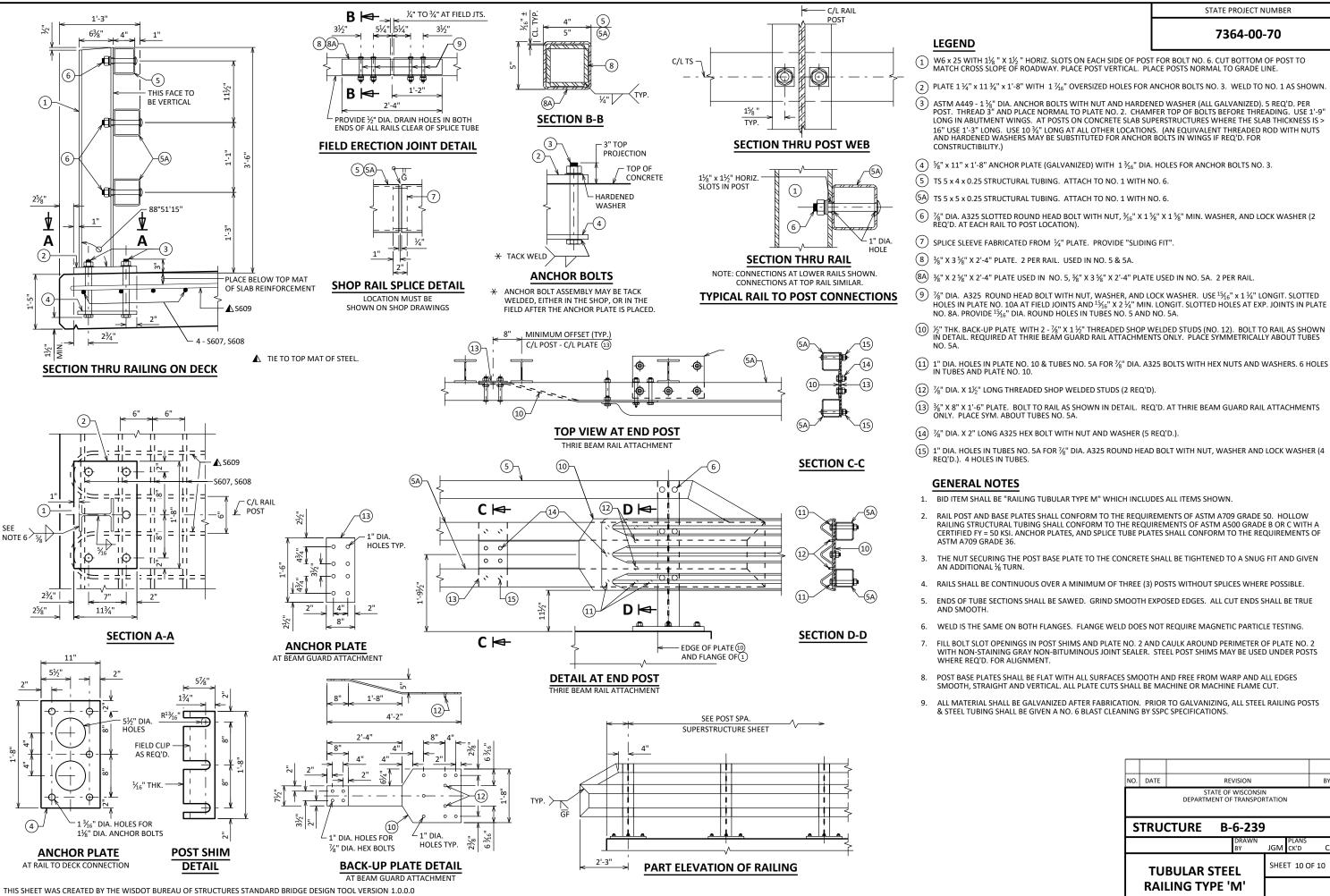
FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FOR EACH SPAN ON AS BUILT PLANS.

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

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

"AS	BUILT"	PLANS.							
								1	
								┢	
NO. DATE REVISION BY									
S	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-6-239								
				DRAWN BY	JGM	PLANS CK'D	СЈВ	1	
	SUP	ERSTRU	SHEE	T 9 OF	10	= 12.0			
		DETAI				ALE:			

8



7364-00-70

- 2 PLATE 1 $\frac{1}{4}$ " x 11 $\frac{3}{4}$ " x 1'-8" WITH 1 $\frac{7}{16}$ " OVERSIZED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.
- (3) ASTM A449 1 1/8" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 10 $\frac{3}{4}$ " LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR

- 9 %" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE $^{1}\%$ 6" x 1 %" LONGIT. SLOTTED HOLES IN PLATE NO. 10A AT FIELD JOINTS AND $^{1}\%$ 6" X 2 %1" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE
- $^{(1)}$ ½" THK. BACK-UP PLATE WITH 2 $^{\prime}$ 2" X 1 ½" THREADED SHOP WELDED STUDS (NO. 12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES

- 15 1" DIA. HOLES IN TUBES NO. 5A FOR 7/8" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER AND LOCK WASHER (4
- RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW
 RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A
 CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS
- SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-6-239 SHEET 10 OF 10 **TUBULAR STEEL RAILING TYPE 'M'**

BRIDGE B-06-0239

EARTHWORK SUMMARY

				AREA	A (SF)	INCREMENTA	AL VOL (CY)	CUMULAT	IVE VOL (CY)	MASS
STATION		REAL STATION	DISTANCE	СИТ	FILL	CUT (3)	FILL (1) (2)	CUT 1.00	FILL (2)	ORDINATE
9+15	ВК	915.00	0.00	69.43	4.43	0.00	0.00	0.00	0.00	0.00
9+25		925.00	10.00	71.35	4.65	26.07	2.19	26.07	2.19	23.88
9+50		950.00	25.00	76.66	5.64	68.52	6.19	94.59	8.38	86.21
9+75		975.00	25.00	80.66	11.29	72.83	10.19	167.43	18.57	148.86
STRUCTURE B	-06-0239									
10+10	АН	1010.00	0.00	35.33	81.69	0.00	0.00	167.43	18.57	148.86
10+25		1025.00	15.00	80.37	0.00	32.14	29.50	199.57	48.07	151.50
10+50		1050.00	25.00	75.50	0.34	72.16	0.20	271.73	48.27	223.46
10+75		1075.00	25.00	73.63	0.11	69.04	0.27	340.77	48.54	292.23
10+85	ВК	1085.00	10.00	74.74	0.07	27.48	0.04	368.25	48.59	319.66
					TOTALS	370	49			

(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY

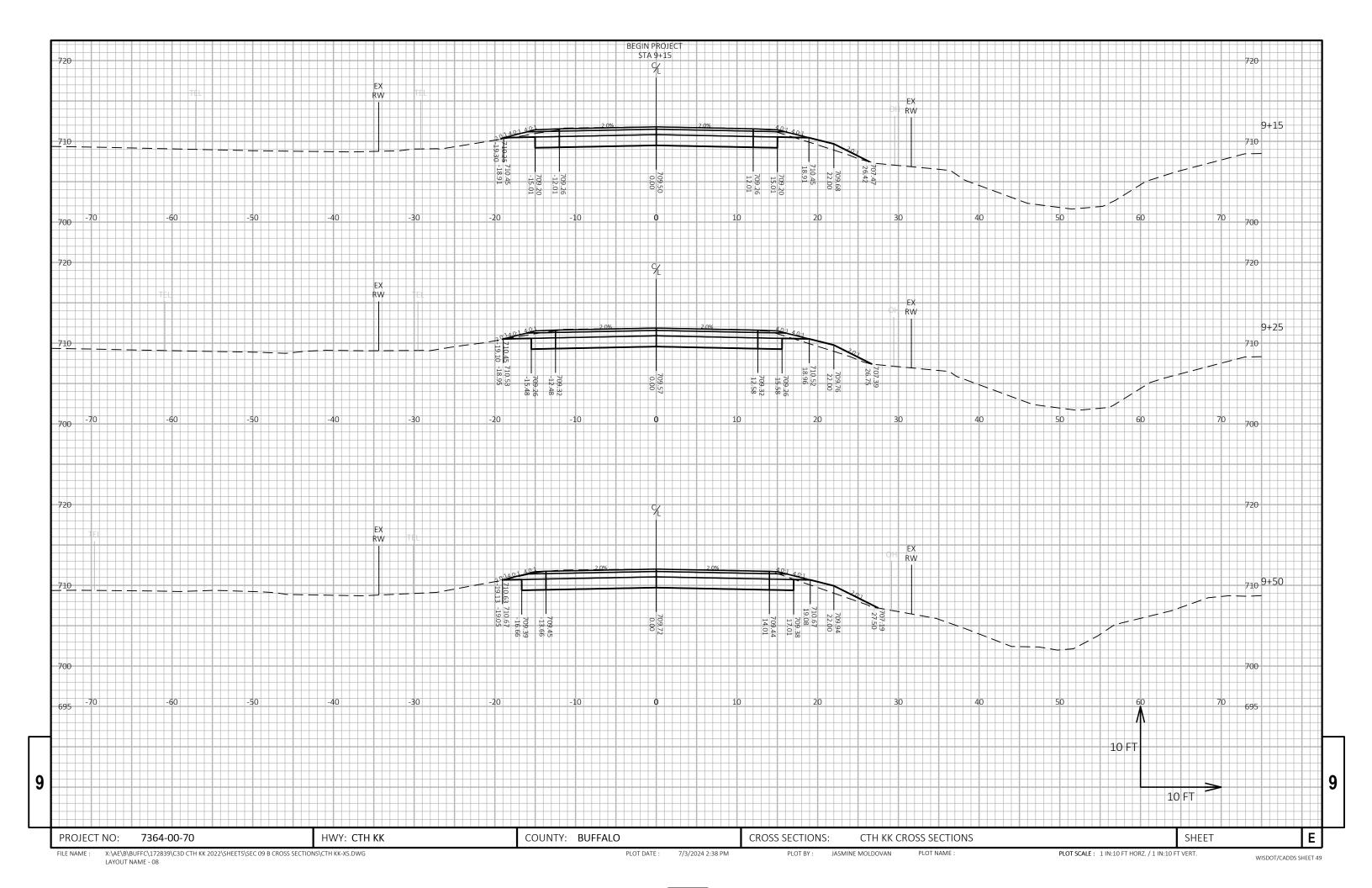
(2) - FILL EXPANSION 30%

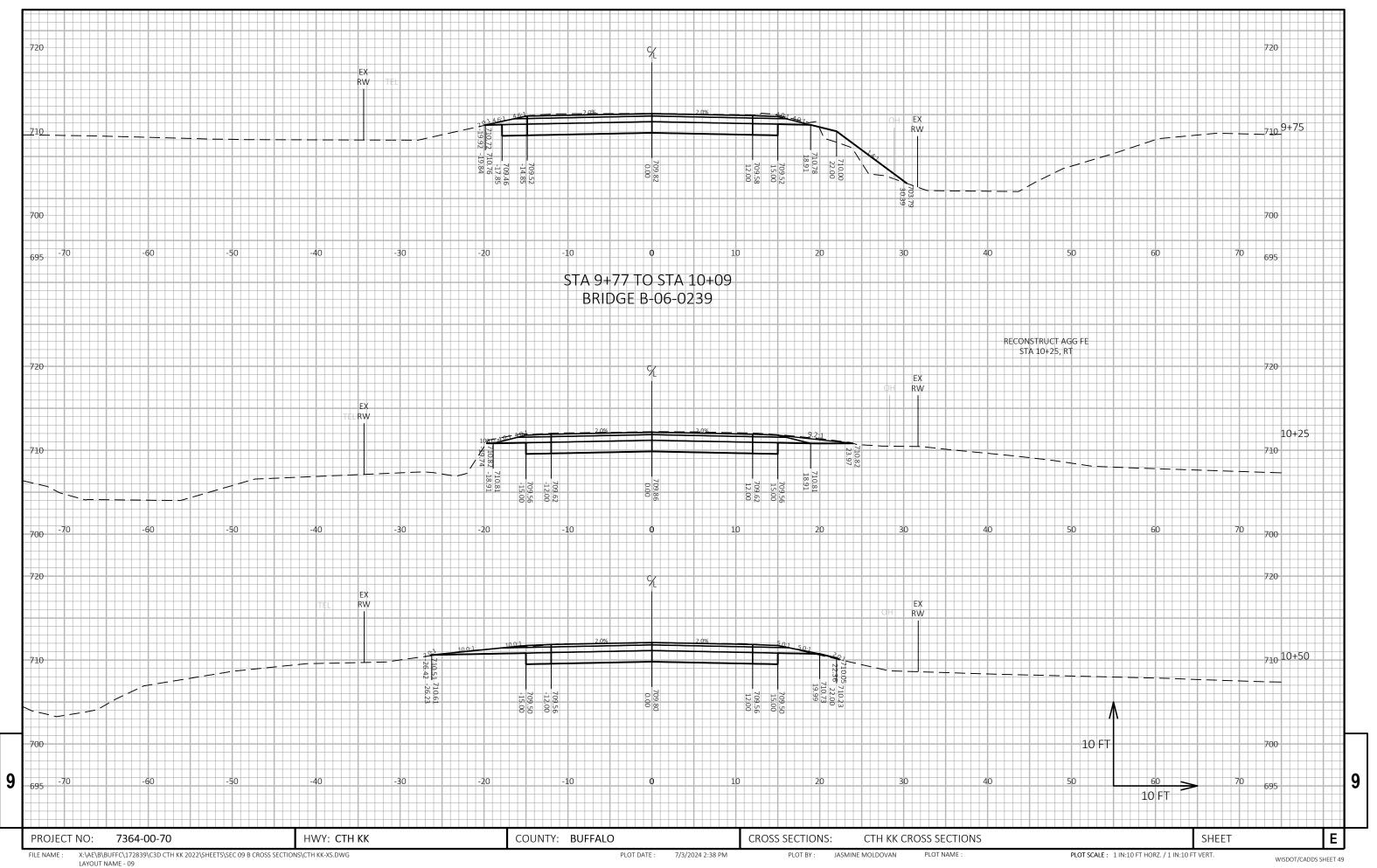
(3) - EXISTING ASPHALTIC PAVEMENT IS INCLUDED IN COMMON EXCAVATION TOTALS

9

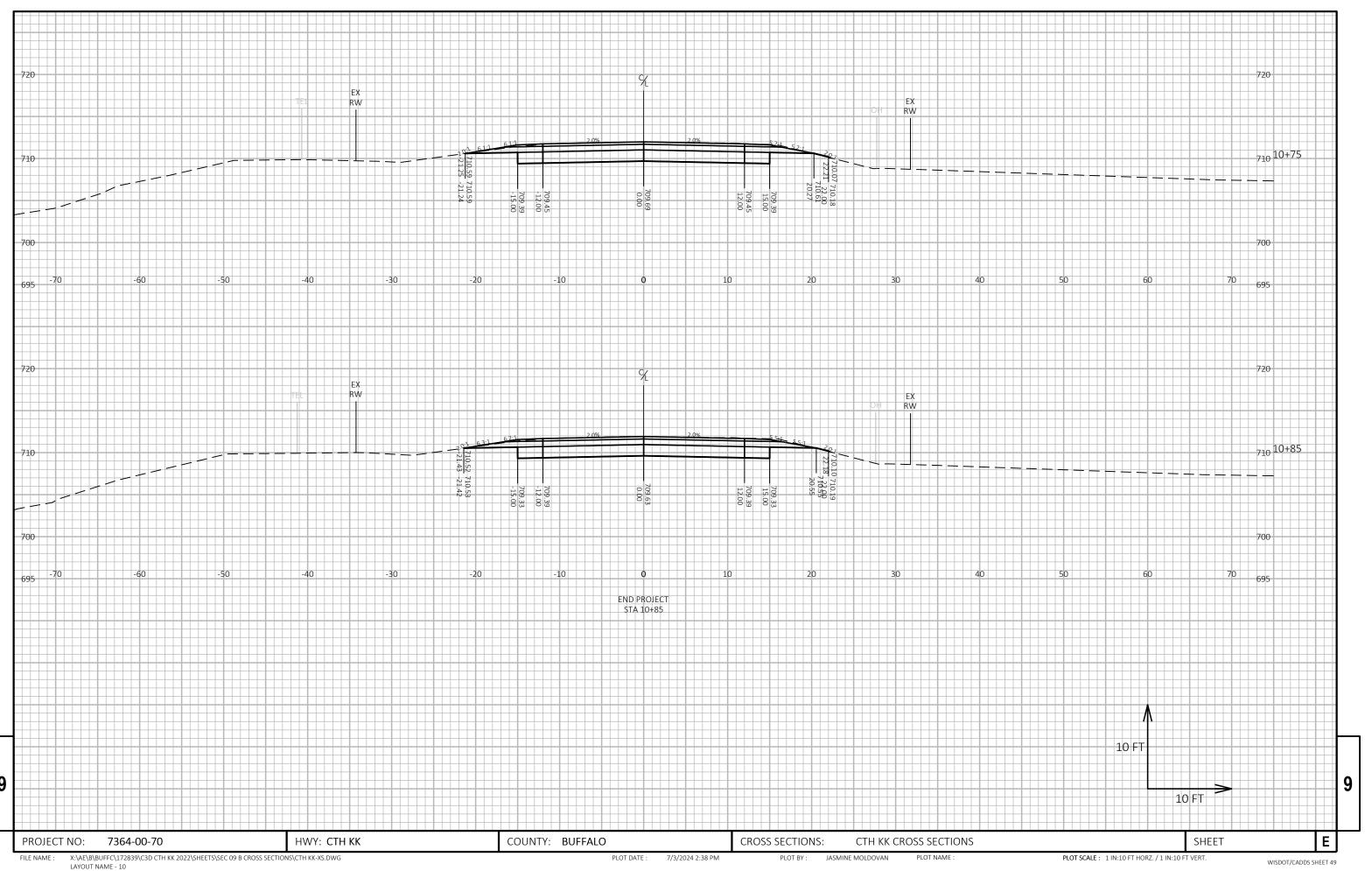
WISDOT/CADDS SHEET 49

COUNTY: BUFFALO SHEET PROJECT NO: 7364-00-70 HWY: CTH KK EARTHWORK DATA X:\AE\B\BUFFC\172839\C3D CTH KK 2022\SHEETS\SEC 09 A EARTHWORK DATA\090100-EW (EARTHWORK QTYS).DWG LAYOUT NAME - 01 PLOT SCALE : 1" = 1' PLOT DATE : 7/3/2024 2:27 PM PLOT BY: JASMINE MOLDOVAN





LAYOUT NAME - 09



LAYOUT NAME - 10



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