Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Plan and Profile

Sign Plates

Structure Plans

Cross Sections

42

Section No.

Section No.

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS =

WOODED OR SHRUB AREA

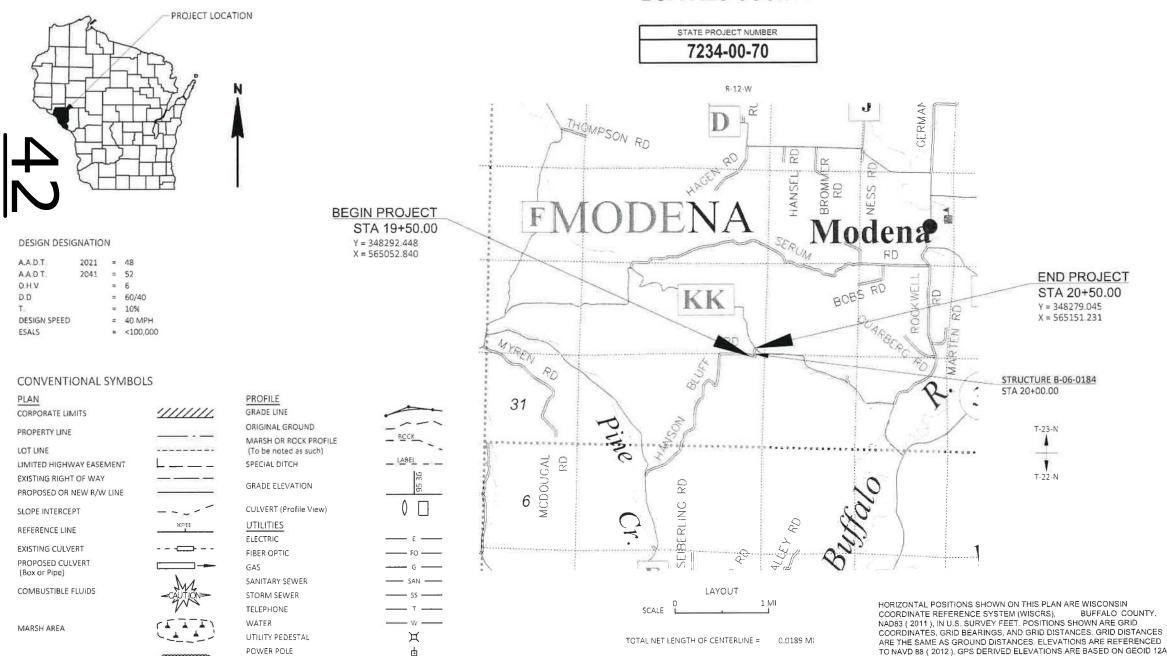
JANUARY 2022 STATE OF WISCONSIN ORDER OF SHEETS DEPARTMENT OF TRANSPORTATION Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

T MODENA, HANSON BLUFF ROAD

LEE VALLEY CREEK BRIDGE B-06-0184

LOCAL STREET **BUFFALO COUNTY**



ACCEPTED FOR COUNTY BUFFALO ORIGINAL PLANS PREPARED BY CBS SQUARED INC. STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION CBS SQUARED INC Surveyor CBS SQUARED INC Designer MATTHEW THORNSEN Project Manage Region Examine TYLER RONGSTAD Region Supervisor APPROVED FOR THE DEPARTMEN

FEDERAL PROJECT

PROJECT

CONTRACT

STATE PROJECT

7234-00-70

P:\BUFFC\19002 - LEE VALLEY CREEK BRIDGE P-06-0135, HANSON BLUFF ROAD\CAD\C3D\SHEETSPLAN\010101-TI,DWG

1ELEPHONE POLE

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MATT GUNDRY

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GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES 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 DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

THE EXACT LOCATION AND WIDTH OF PRIVATE ENTRANCES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAYS ARE TO BE REPLACED IN KIND UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE PLANS. BASE AGGREGATE DENSE 1 1/4-INCH WILL BE USED UNDER ALL DRIVEWAYS.

MAINTAIN DRIVING SURFACE TO ALL PROPERTY OWNERS WITH BASE AGGREGATE DENSE 1 1/4-INCH.

FILL EXPANSION FACTOR IS 30%.

PROPERTY LINES SHOWN ARE APPROXIMATE.

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

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

PLACE EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN. THE EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE FERTILIZED, SEEDED, AND EROSION MATTED AS DIRECTED

ELEVATIONS SHOWN ON THE ROADWAY CROSS SECTIONS ARE SUBGRADE ELEVATIONS AT THE CENTERLINE OF THE

WISDOT WILL FURNISH A BENCHMARK MONUMENT TO BE SET BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER IN THE FIELD.

STANDARD ABBREVIATIONS

AC	ACRE	INL	INLET
AGG	AGGREGATE	INV	INVERT
AH	AHEAD	JCT	JUNCTION
AADT	ANNUAL AVERAGE DAILY TRAFFIC	LT	LEFT
ASPH	ASPHALTIC	L	LENGTH OF CURVE
AVG	AVERAGE	LIN FT OR LF	LINEAR FOOT
BK	BACK	LS	LUMP SUM
BAD	BASE AGGREGATE DENSE	NC	NORMAL CROWN
BM	BENCH MARK	N	NORTH
BR	BRIDGE	NB	NORTHBOUND
CL OR C/L	CENTER LINE	NO	NUMBER
CE	COMMERCIAL ENTRANCE	PT	POINT
CONC	CONCRETE	PC	POINT OF CURVATURE
CO	COUNTY	PCC	POINT OF COMPOUND CURVATURE
CTH	COUNTY TRUNK HIGHWAY	PI	POINT OF INTERSECTION
CR	CREEK	PT	POINT OF TANGENCY

CRUSHED AGGREGATE BASE COURSE LB POUND CY OR CUYD CUBIC YARD PΕ PRIVATE ENTRANCE RADIUS CULVERT CULVERT PIPE RL OR R/L REFERENCE LINE **CURB AND GUTTER** RIGHT DEGREE OF CURVE R/W RIGHT-OF-WAY DIAMETER RD ROAD DISCHARGE SHOULDER SHLDR SOUTHBOUND SB EASTBOUND SF OR SQ FT SQUARE FEET ELEVATION SY OR SQ YD SQUARE YARD

SDD STANDARD DETAIL DRAWINGS STH STATE TRUNK HIGHWAY SE SUPERELEVATION **TANGENT** TEMP **TEMPORARY**

FIELD ENTRANCE UNITED STATES HIGHWAY USH FLOW LINE VELOCITY OR DESIGN SPEED VC VERTICAL CURVE

HOT MIX ASPHALT НМА WB WESTBOUND CWT HUNDREDWEIGHT

FAST

END WALL

ENTRANCE

EXISTING

FOOT

FERTILIZER

EXCAVATION

CABC

CULV

CP C&G

DIA

EW

ENT

EXC

EX

FE

FERT

FL OR F/L

DISCH

EL OR ELEV

UTILITY CONTACTS

RIVERLAND ENERGY COOPERATIVE - ELECTRICTY TIM HOLTAN N28988 STATE ROAD 93, P.O. BOX 277 ARCADIA, WI 54612 608-323-3381 THOLTAN@RIVERLANDENERGY.COM



DESIGN CONTACT

CBS SQUARED INC. 770 TECHNOLOGY WAY, SUITE 1A CHIPPEWA FALLS, WI 54729 ATTN: MATT GUNDRY, PE 715-861-7425 MGUNDRY@CBSSQUAREDINC.COM

WISCONSIN DOT NORTHWEST REGION LOCAL

WISCONSIN DEPARTMENT OF TRANSPORTATION EAU CLAIRE OFFICE 718 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 ATTN: MATTHEW THORNSEN, P.E. 715-225-4159 MATTHEW.THORNSEN@DOT.WI.GOV

WISCONSIN DNR - LIASON

DEPARTMENT OF NATURAL RESOURCES EAU CLAIRE SERVICE CENTER 1300 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 ATTN: AMY LESIK 715-495-1903 AMYL.LESIK@WISCONSIN.GOV

BUFFALO COUNTY HIGHWAY DEPARTMENT

BOB PLATTETER HIGHWAY COMMISSIONER BUFFALO COUNTY HIGHWAY DEPARTMENT S1672 STATE HWY 37 ALMA, WI 54610 608-685-6226 BOB.PLATTETER@CO.BUFFALO.WI.US

1 IN:100 FT

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP											
			A		В	В				D			
	SLOP	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	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 .28	.26 .33	.20 .26	.23	.30 .37	.20 .27	.25 .32	.30 .40	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38	
PAVEMENT:			•	•		•	•						
ASPHALT						.7095							
CONCRETE						.8095							
BRICK						.7080							
DRIVES, WALKS						.7585							
ROOFS						.7595							
GRAVEL ROADS, SH	OULDERS		•		•	.4060							

TOTAL PROJECT AREA = 0.303 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.205 ACRES

PROJECT NO: 7234-00-70 HWY: HANSON BLUFF ROAD

COUNTY: BUFFALO

GENERAL NOTES

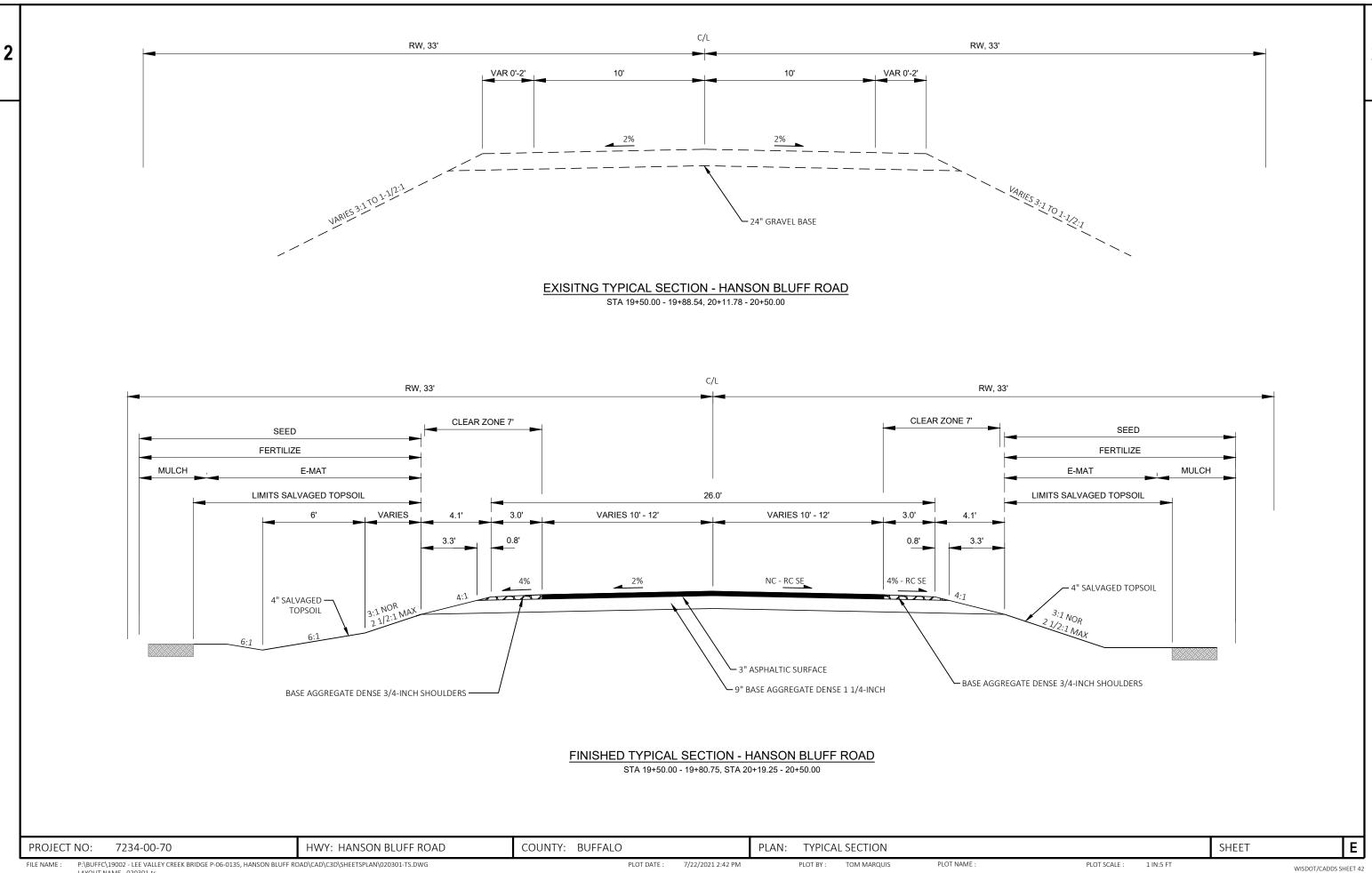
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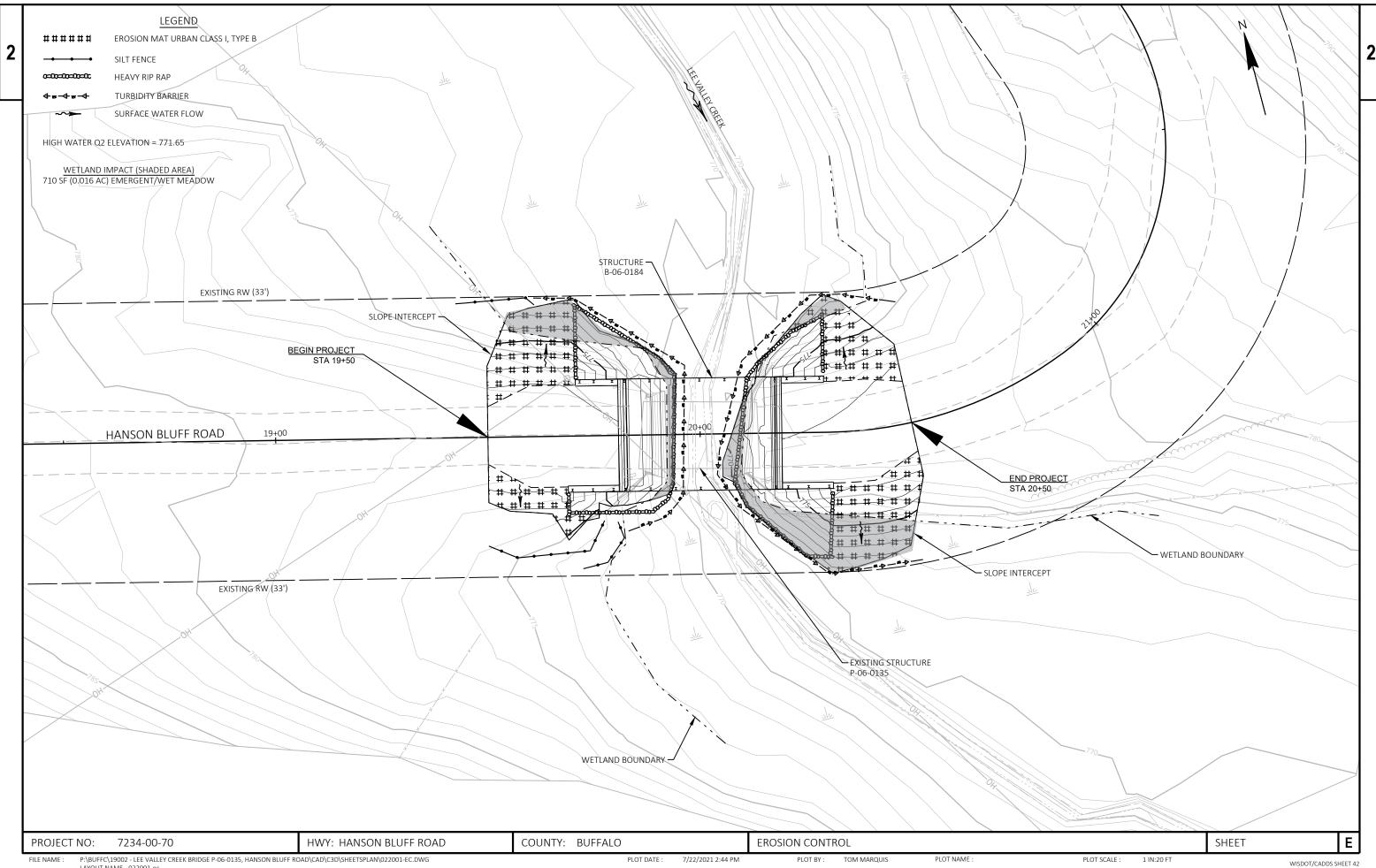
MATT GUNDRY

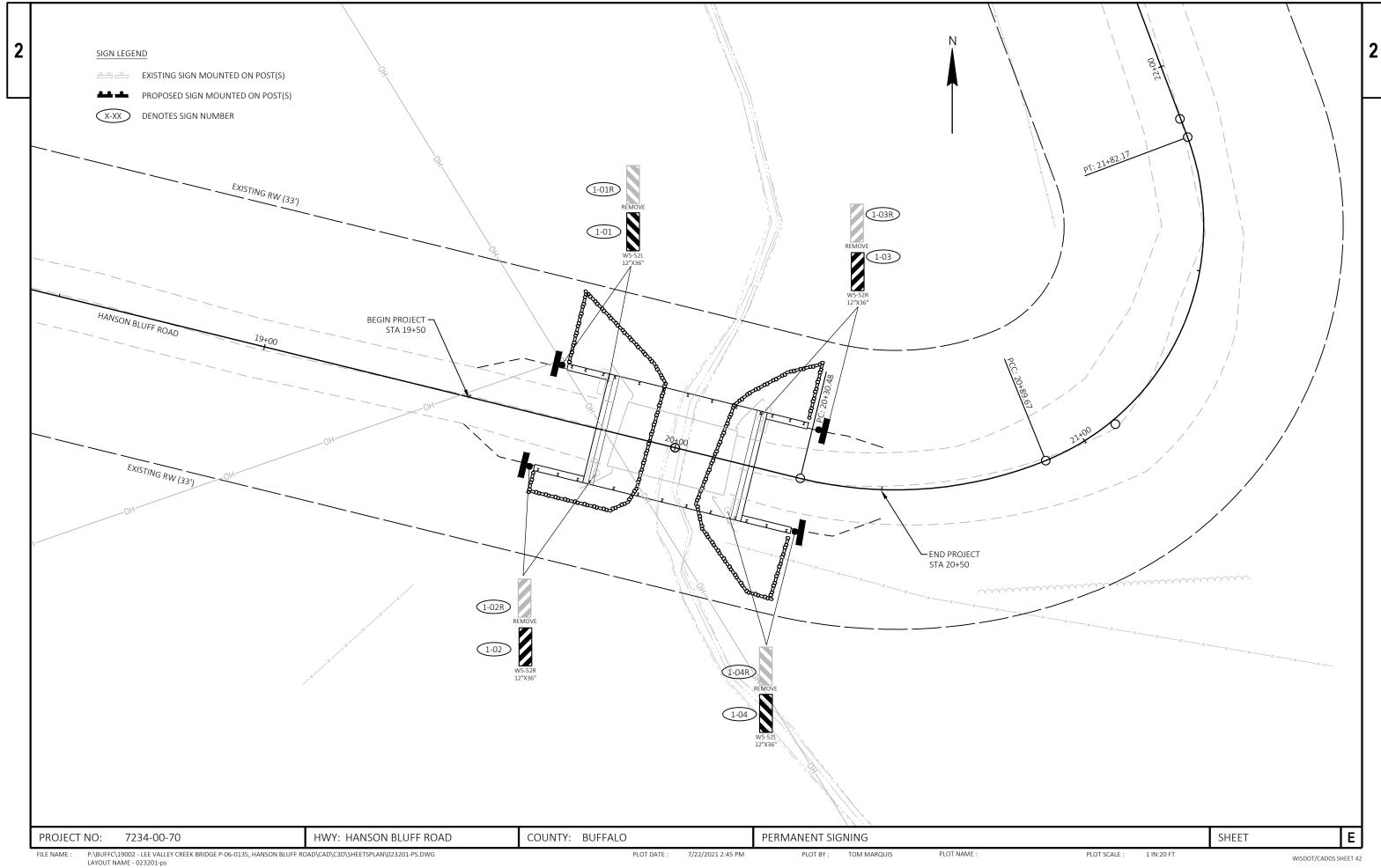
PLOT NAME

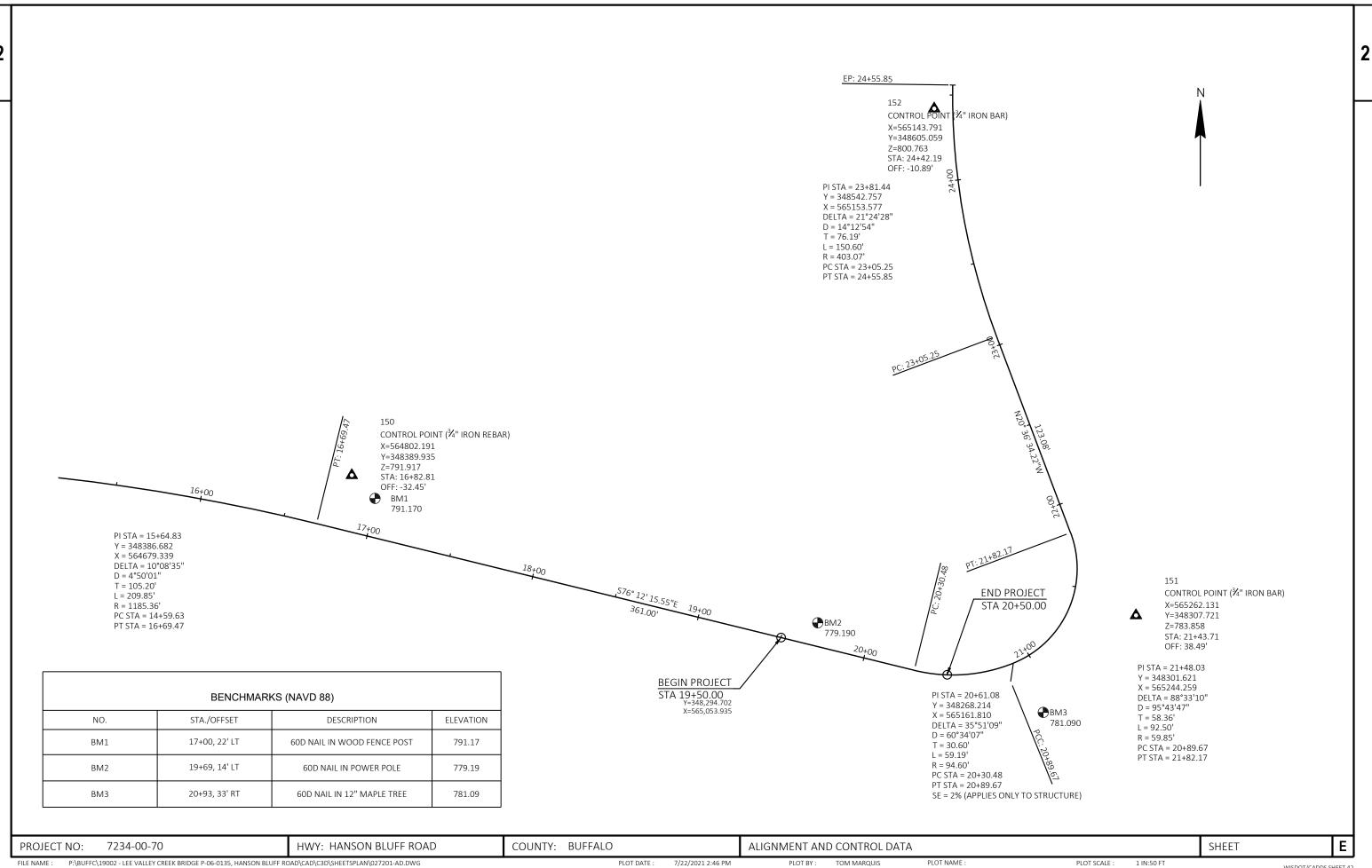
SHEET

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					7234-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-06-135	EACH	1.000	1.000
0004	205.0100	Excavation Common	CY	32.000	32.000
0006	206.1000	Excavation for Structures Bridges (structure) 01. B-06-0184	LS	1.000	1.000
8000	208.0100	Borrow	CY	11.000	11.000
0010	210.1500	Backfill Structure Type A	TON	200.000	200.000
0012	213.0100	Finishing Roadway (project) 01. 7234-00-70	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	8.000	8.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	90.000	90.000
0018	465.0105	Asphaltic Surface	TON	25.000	25.000
0020	502.0100	Concrete Masonry Bridges	CY	129.000	129.000
0022	502.3200	Protective Surface Treatment	SY	136.000	136.000
0024	505.0400	Bar Steel Reinforcement HS Structures	LB	3,240.000	3,240.000
0026	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	15,385.000	15,385.000
0028	513.4061	Railing Tubular Type M	LF	127.000	127.000
0030	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0032	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	360.000	360.000
0034	606.0300	Riprap Heavy	CY	142.000	142.000
0036	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	130.000	130.000
0038	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7234-00-70	EACH	1.000	1.000
0040	619.1000	Mobilization	EACH	1.000	1.000
0042	624.0100	Water	MGAL	2.000	2.000
0044	625.0500	Salvaged Topsoil	SY	135.000	135.000
0046	628.1504	Silt Fence	LF	100.000	100.000
0048	628.1520	Silt Fence Maintenance	LF	100.000	100.000
0050	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0052	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0054	628.2008	Erosion Mat Urban Class I Type B	SY	135.000	135.000
0056	628.6005	Turbidity Barriers	SY	120.000	120.000
0058	629.0210	Fertilizer Type B	CWT	0.200	0.200
0060	630.0110	Seeding Mixture No. 10	LB	1.800	1.800
0062	630.0500	Seed Water	MGAL	10.000	10.000
0064	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0066	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0068	638.2602	Removing Signs Type II	EACH	4.000	4.000
0070	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0072	642.5001	Field Office Type B	EACH	1.000	1.000
0074	643.0420	Traffic Control Barricades Type III	DAY	960.000	960.000
0074	643.0705	Traffic Control Warning Lights Type A	DAY	1,440.000	1,440.000
0078	643.0900	Traffic Control Signs	DAY	840.000	840.000
0800	643.5000	Traffic Control	EACH	1.000	1.000
0082	645.0111	Geotextile Type DF Schedule A	SY	50.000	50.000
0084	645.0120	Geotextile Type HR	SY	215.000	215.000
0086	650.4500	Construction Staking Subgrade	LF	62.000	62.000
0088	650.5000		LF	62.000	62.000
0090	650.6500	Construction Staking Base Construction Staking Structure Layout (structure) 01. B-06-0184	LS	1.000	1.000
0092	650.9910	Construction Staking Supplemental Control (project) 01. 7234-00-70	LS	1.000	1.000
0094	650.9920	Construction Staking Slope Stakes	LF	62.000	62.000
0096	715.0502	Incentive Strength Concrete Structures	DOL	774.000	774.000
0098	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 20+00	EACH	1.000	1.000

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١٦	Estimate of Quantities	Page 2	2	3
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LF 67.000 67.000

0100 SPV.0090 Special 01. Flashing Stainless Steel

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				<u>EARTHWORK</u>				
					205.0100 EXCAVATION	208.0100		
CATECODY	CTATION	TO	CTATION	LOCATION	COMMON	BORROW	DEMARKS	
CATEGORY	STATION	ТО	STATION	LOCATION	CY	СҮ	REMARKS	
0010	19+50	-	19+69	DIVISION 1	14			
0010	20+31	-	20+50	DIVISION 2	18	11		
				TOTAL 0010	32	11		
				BASE AGGREGATE				
					305.0110	305.0120 BASE	624.0100	
					BASE AGGREGATE	AGGREGATE DENSE 1 1/4-		
CATECORY	CTATION	T0	CTATION	LOCATION	DENSE 3/4-INCH	INCH	WATER	0514
CATEGORY	STATION	TO	STATION	LOCATION	TON	TON	MGAL	REMA
0010	19+50	-	19+81	MAINLINE	4	45	1	
0010	20+19	-	20+50	MAINLINE	4	45	1	
				TOTAL 0010	8	90	2	
				<u>ASPHALT</u>				
					465.0105			
					ACDITALTIC			
					ASPHALTIC SURFACE			

MAINLINE

MAINLINE TOTAL 0010

PPO 1507 NO. 3004 00 70				QUEET	T
PROJECT NO: 7234-00-70	HWY: HANSON BLUFF ROAD	COUNTY: BUFFALO	MISCELLANEOUS QUANTITIES	SHEET:	E

12.5

12.5

0010

0010

19+50

20+19

-

19+81

20+50

3

EROSION CONTROL

					628.1504	628.1520	628.1905	628.1910	628.2008	628.6005	
								MOBILIZATIONS			
							MOBILIZATIONS	EMERGENCY	EROSION MAT		
						SILT FENCE	EROSION	EROSION	URBAN CLASS I	TURBIDITY	
					SILT FENCE	MAINTENANCE	CONTROL	CONTROL	TYPE B	BARRIERS	
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH	SY	SY	REMARKS
0010	19+50	-	19+81	MAINLINE	100	100			45	48	
0010	20+19	-	20+50	MAINLINE					90	72	
0010	19+50	-	20+50	PROJECT			2	2			_
				TOTAL 0010	100	100	2	2	135	120	_

<u>FINISHING</u>

CATECORY	STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SV	629.0210 FERTILIZER TYPE B	630.0110 SEEDING MIXTURE NO. 10	630.0500 SEED WATER	DEMARKS
CATEGORY	STATION	TO	STATION	LOCATION	51	CWT	LB	MGAL	REMARKS
0010	19+50	-	20+50	PROJECT					
0010	19+50	-	19+81	MAINLINE	45	0.1	0.6	3	
0010	20+19	-	20+50	MAINLINE	90	0.1	1.2	7	
				TOTAL 0010	135	0.2	1.8	10	

PERMANENT SIGNING

			634.0612	637.2230	638.2602	638.3000	
			POSTS WOOD			REMOVING	
			4X6-INCH X 12-	SIGNS TYPE II	REMOVING	SMALL SIGN	
			FT	REFLECTIVE F	SIGNS TYPE II	SUPPORTS	
CATEGORY	STATION	LOCATION	EACH	SF	EACH	EACH	REMARKS
0010	19+70	MAINLINE LEFT	1	3.0	1	1	(1-01) W5-52L
0010	19+70	MAINLINE RIGHT	1	3.0	1	1	(1-02) W5-52R
0010	20+30	MAINLINE LEFT	1	3.0	1	1	(1-03) W5-52R
0010	20+30	MAINLINE RIGHT	1	3.0	1	1	(1-04) W5-52L
		TOTAL 0010	4	12.0	4	4	

PROJECT NO: 7234-00-70 HWY: HANSON BLUFF ROAD COUNTY: BUFFALO MISCELLANEOUS QUANTITIES SHEET: **E**

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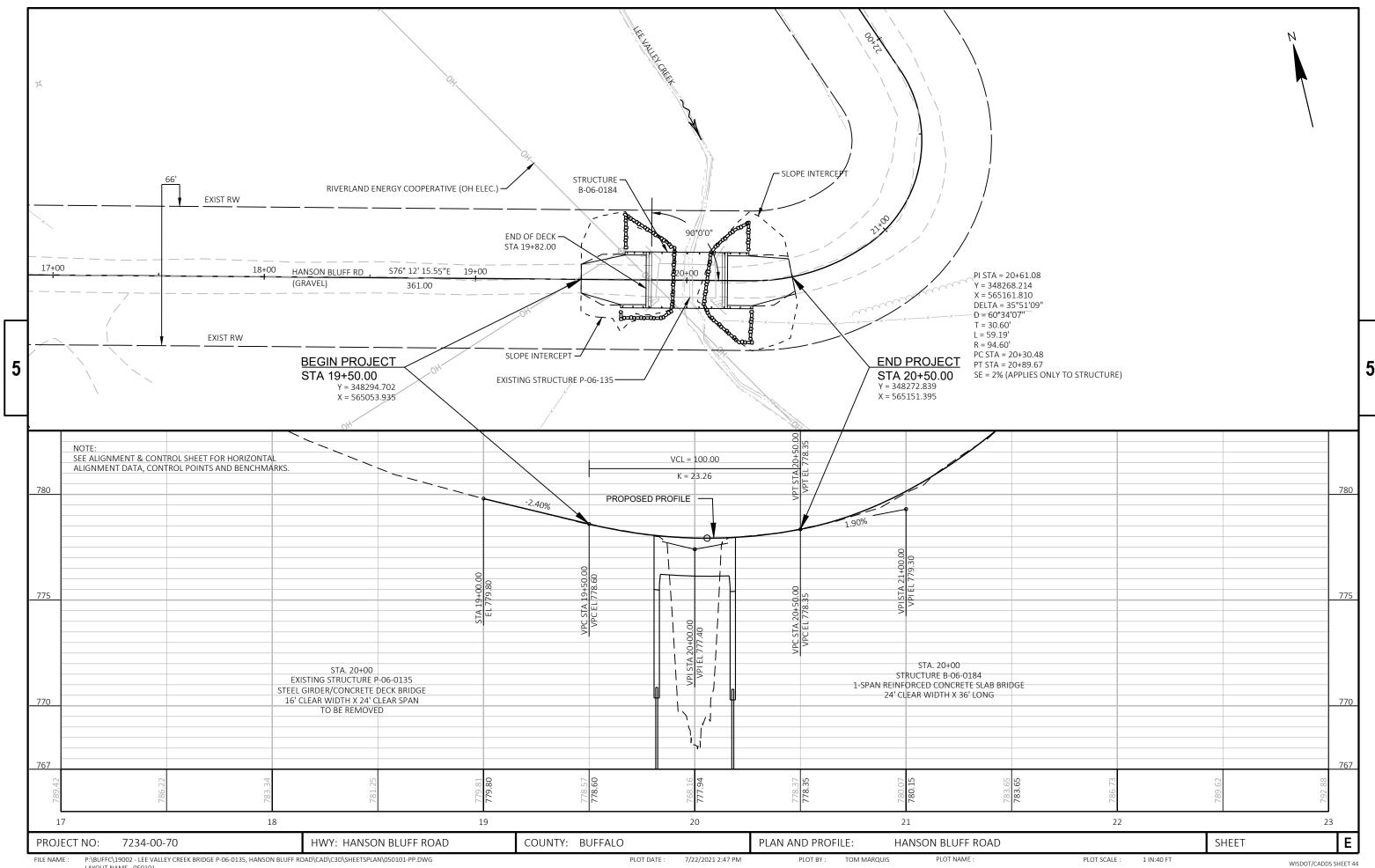
13

				TRAFFIC CONTROL						
					643.0420	0	643.0705	643.0900	643.5000	
CATEGORY	STATION	ТО	STATION	LOCATION	TRAFFIC CON BARRICADES T EACH D	TROL W	AFFIC CONTROL 'ARNING LIGHTS TYPE A ICH DAY	TRAFFIC CONTROL SIGNS EACH DAY	TRAFFIC CONTROL EACH	REMARKS
0010					166	50	24 60	14 60	1	
				TOTAL 0010	960		1,440	840	1	
				STAKING						
					650.4500	650.5000	650.6500.01 CONSTRUCTION STAKING STRUCTURE		650.9920	

					CONSTRUCTION STAKING SUBGRADE	CONSTRUCTION STAKING BASE	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) (01. B-06-184)	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 7234-00-70)	CONSTRUCTION STAKING SLOPE STAKES	
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LS	LS	LF	REMARKS
0010	19+50	-	19+81	MAINLINE	31	31			31	
0010	20+19	-	20+50	MAINLINE	31	31			31	
0010	19+50	-	20+50	MAINLINE				1		
0020	19+81	-	20+19	STRUCTURE B-06-184			1			
				TOTAL 0010 TOTAL 0020	62	62	1	1	62	

PROJECT NO: 7234-00-70 HWY: HANSON BLUFF ROAD COUNTY: BUFFALO MISCELLANEOUS QUANTITIES SHEET: **E**

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

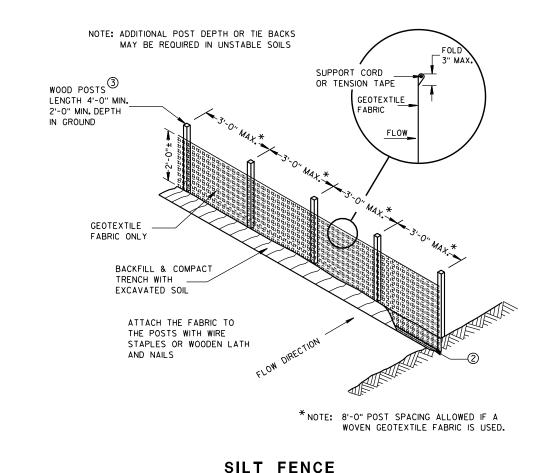


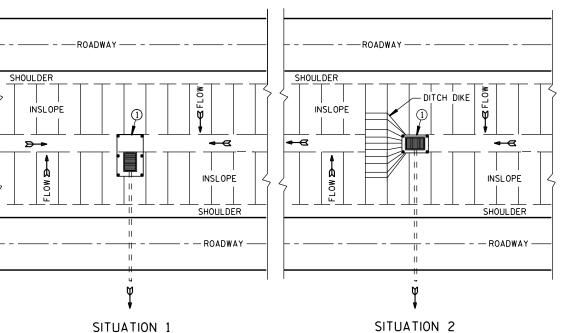
Standard Detail Drawing List

08E09-06 08E11-02 12A03-10 15C02-08A 15C02-08B 15C04-05

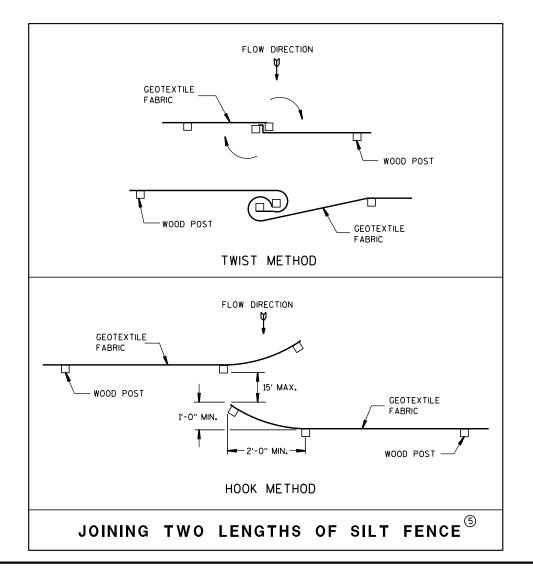
SILT FENCE
TURBIDITY BARRIER
NAME PLATE (STRUCTURES)
BARRICADES AND SIGNS FOR MAINLINE CLOSURES
BARRICADES AND SIGNS FOR VARIOUS CLOSURES
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

TYPICAL APPLICATION OF SILT FENCE





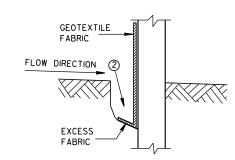
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



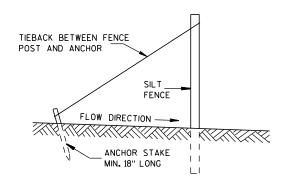
GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL

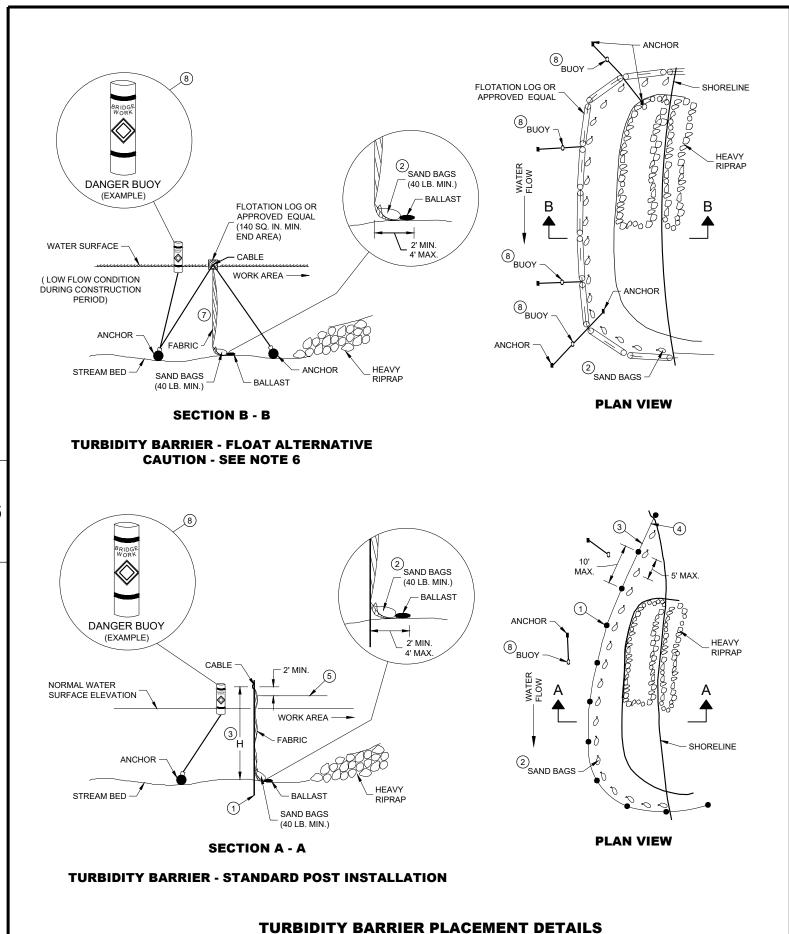


SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

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

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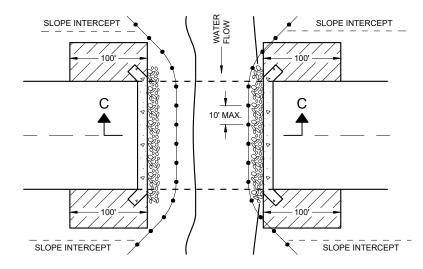


GENERAL NOTES

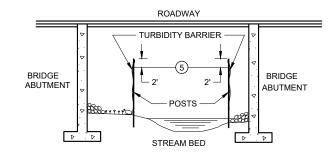
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



PLAN VIEW



SECTION C - C

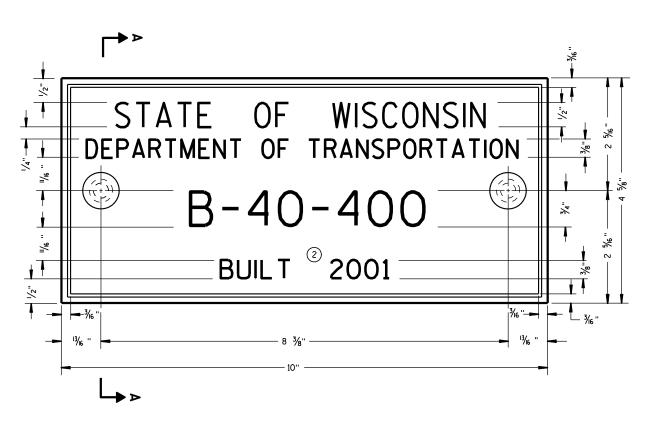
TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ∞

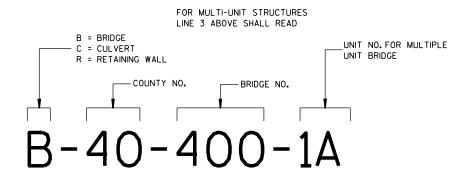
APPROVED	
6/4/02	/S/ Beth Cannestra
DATE	CHIEF ROADWAY DEVELOPMENT
F1 04/4	ENGINEER





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



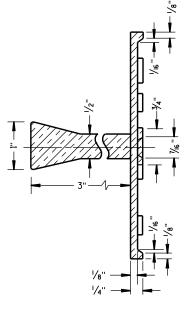
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

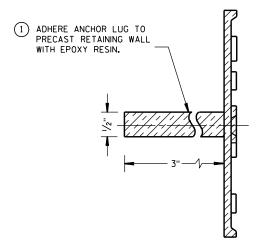
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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)

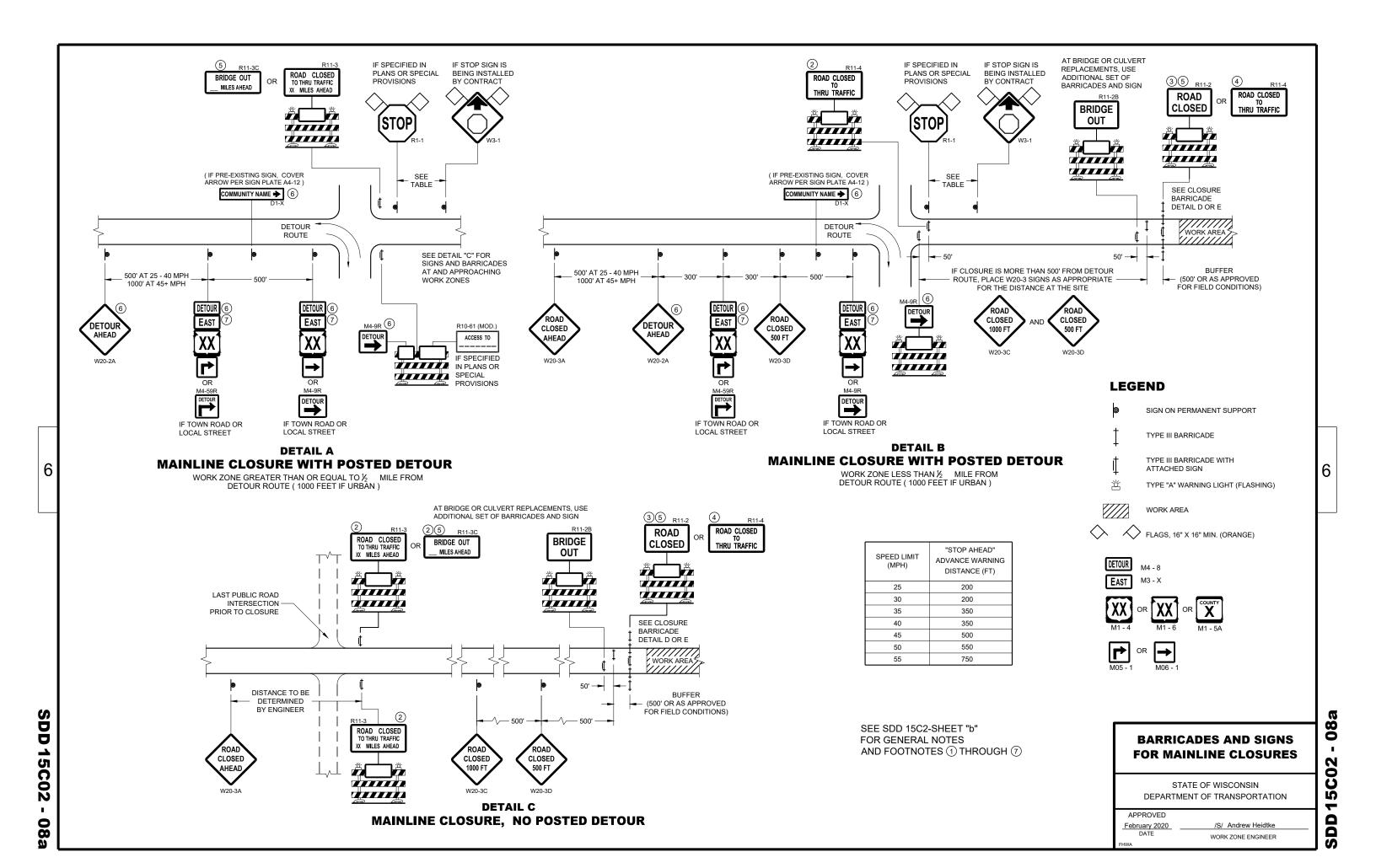
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

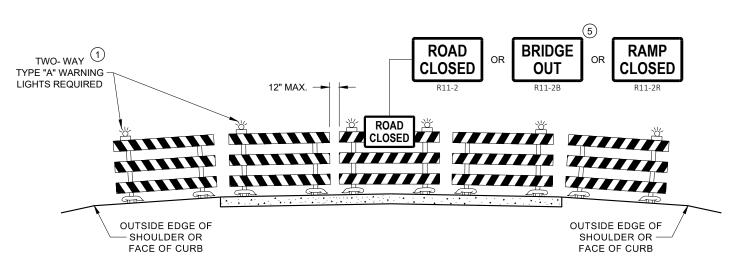
3-10

APPROVED

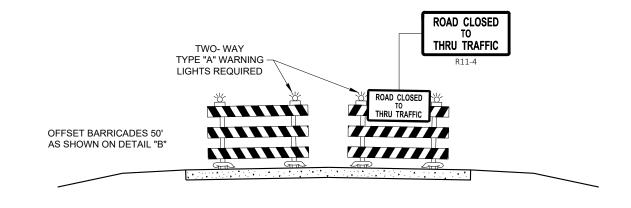
3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER





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 SUPPORTS

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

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

R1 - 1 SHALL BE 36" X 36"

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

FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

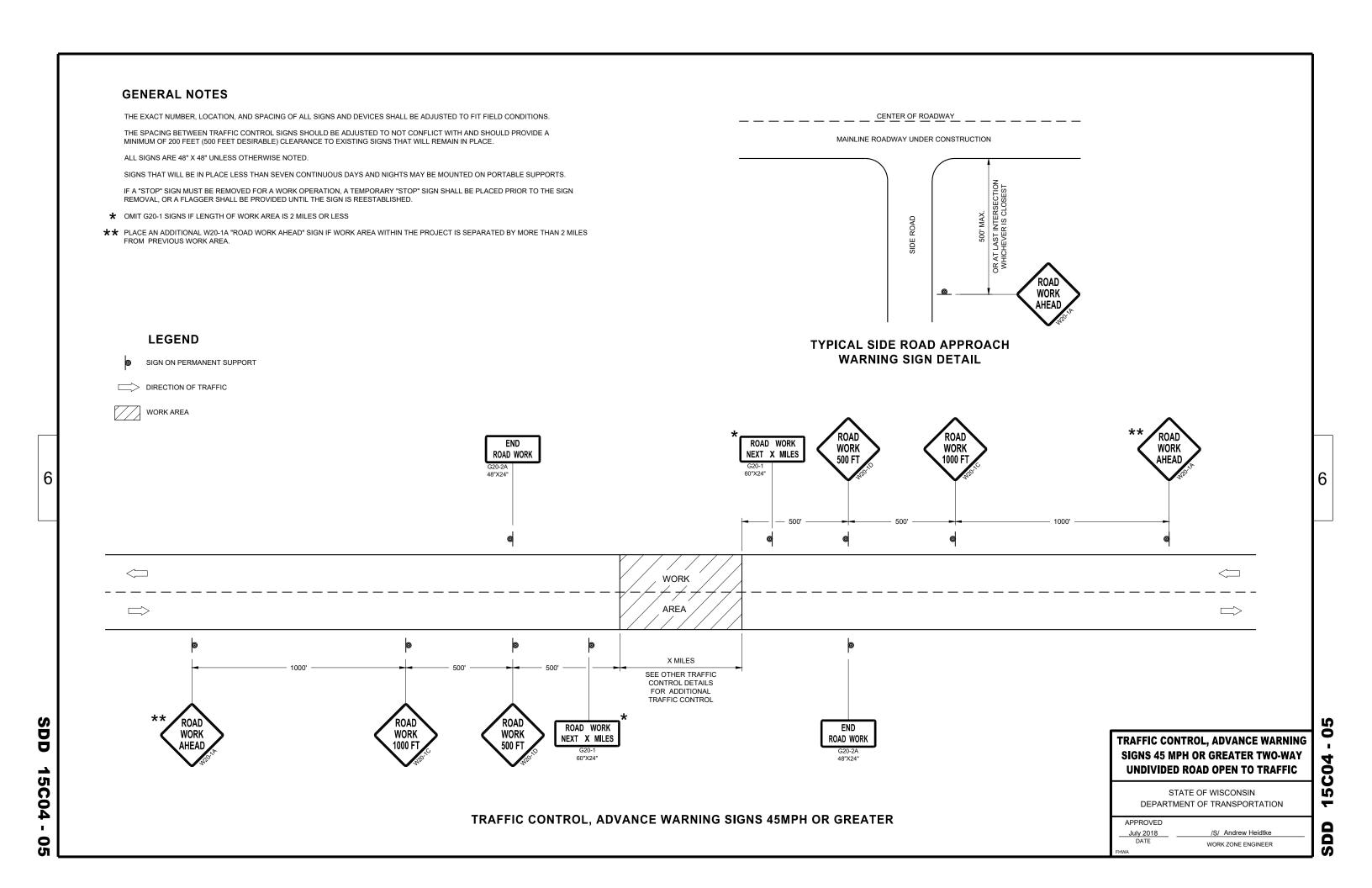
APPROVED

February 2020 ____

/S/ Andrew Heidtke
WORK ZONE ENGINEER

D15C0

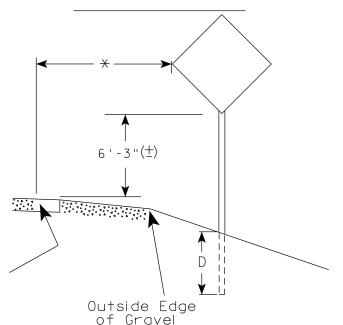
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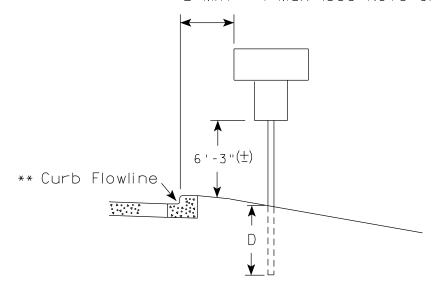
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



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



White Edgeline Location

geline

Outside Edge
of Gravel

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

HWY:

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

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

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

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

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

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A43.dgn

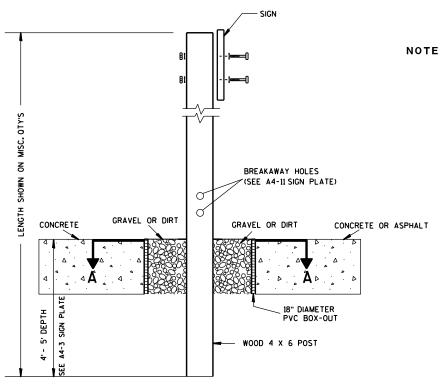
measured from the flow line.

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

PLOT BY : mscj9h

PLOT NAME :

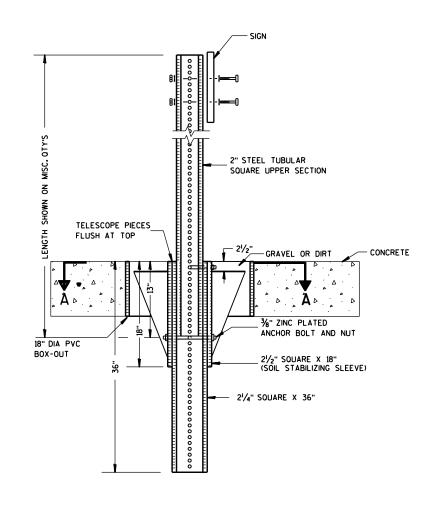
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



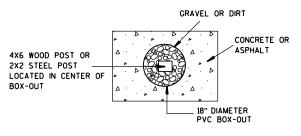
ELEVATION VIEW

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

ELEVATION VIEW

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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 13.659812:1.000000

APPROVED

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

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

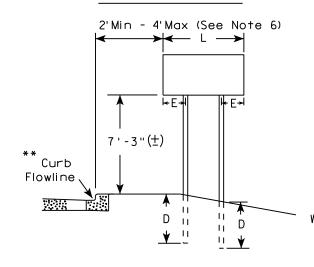
For State Traffic Engineer

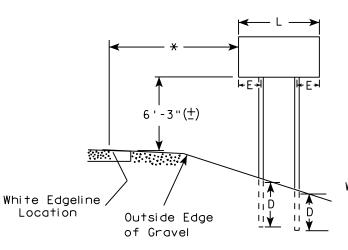
DATE 8/21/17 PLATE NO. A4-4.15

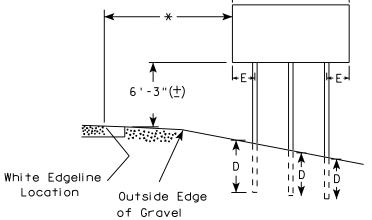
SHEET NO:

URBAN AREA

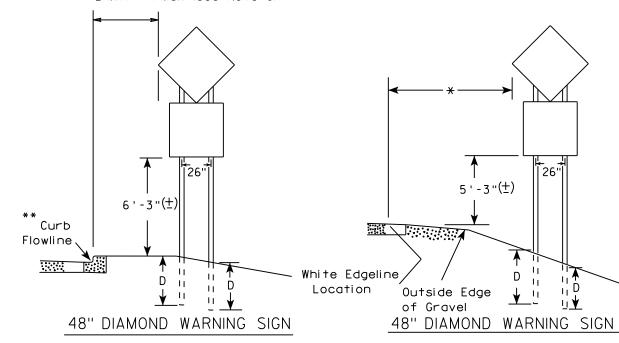
RURAL AREA (See Note 3)







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



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

HWY:

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

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

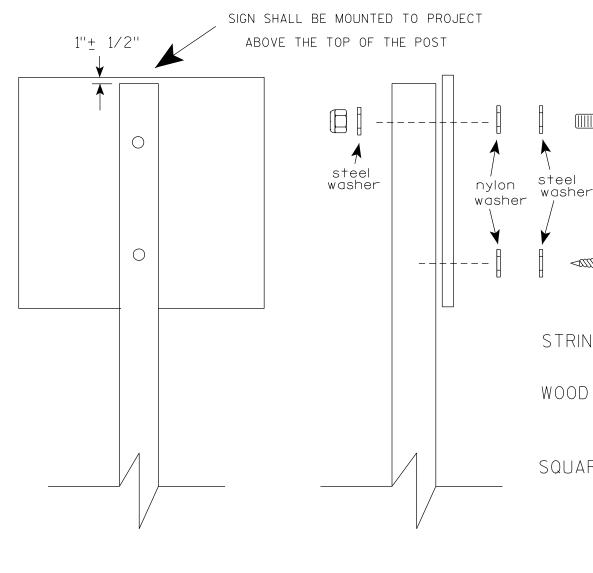
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

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

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

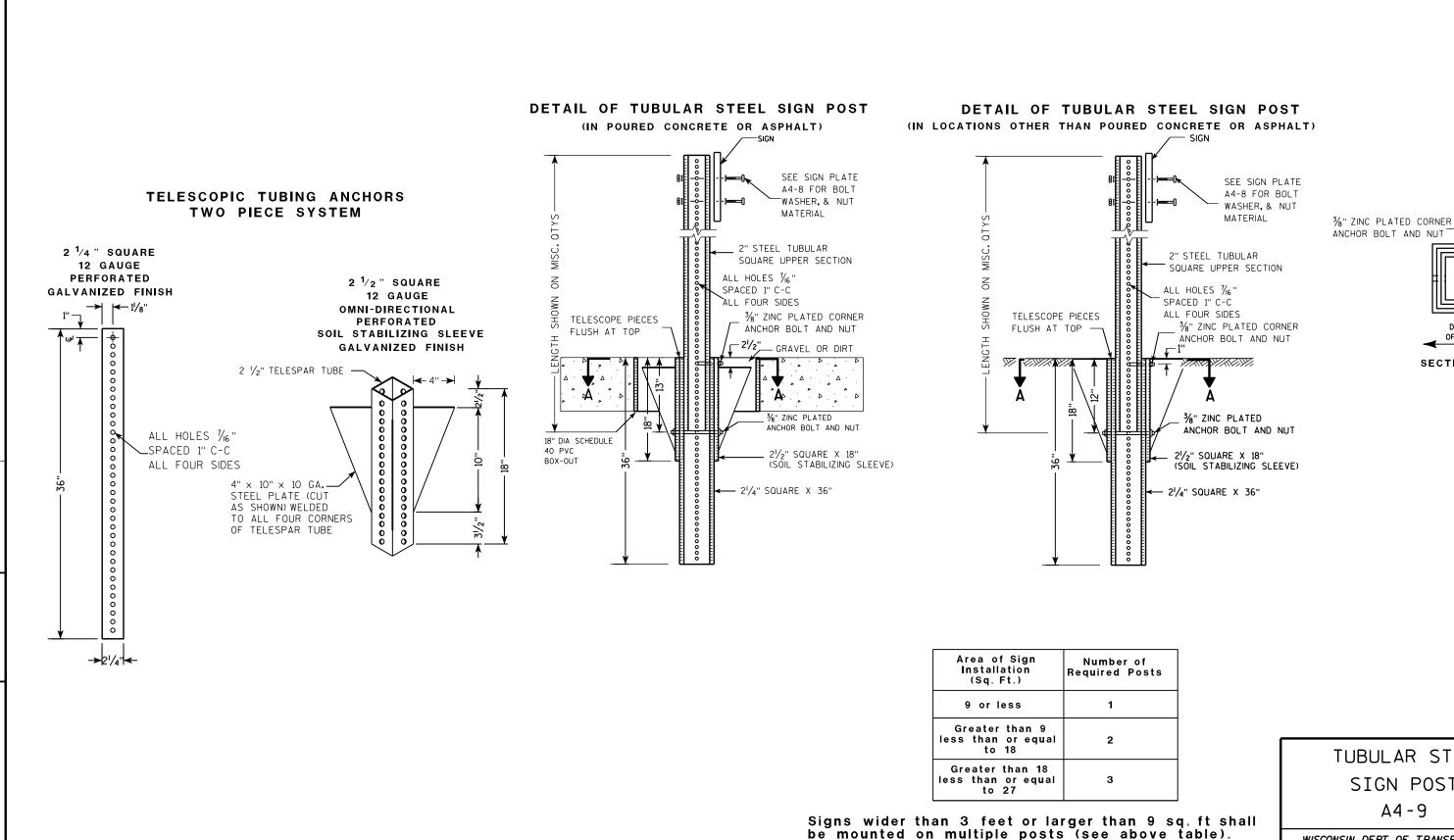
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

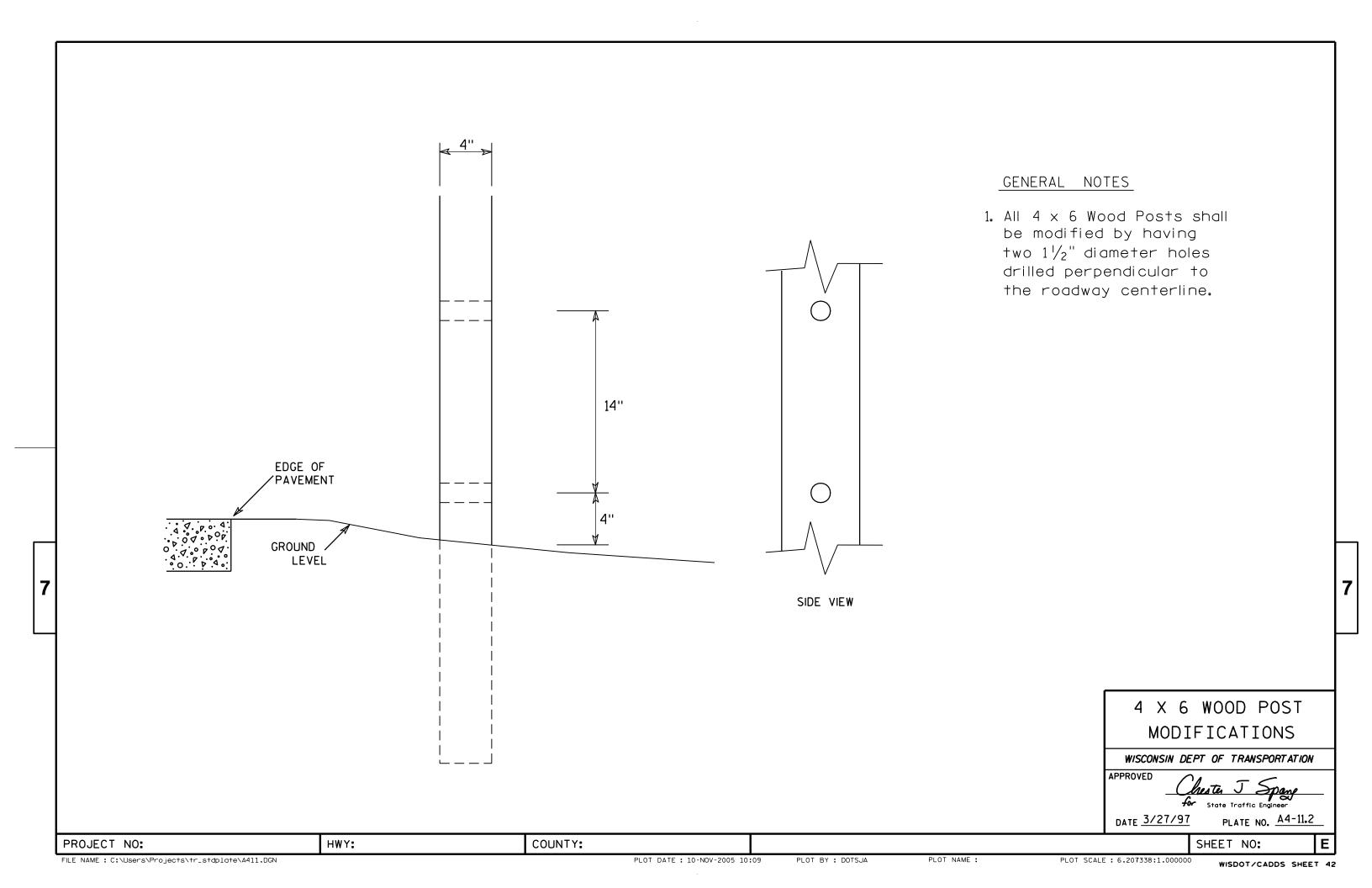
COUNTY:

PLOT NAME :

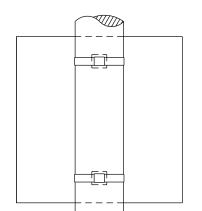
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

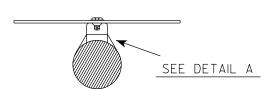
SECTION A-A

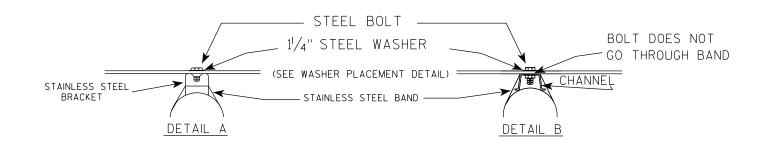


BANDING

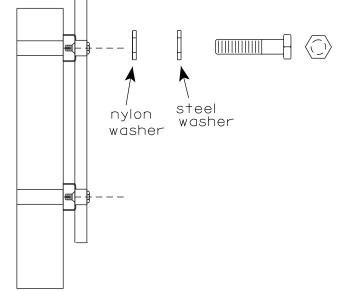


SINGLE SIGN





WASHER PLACEMENT



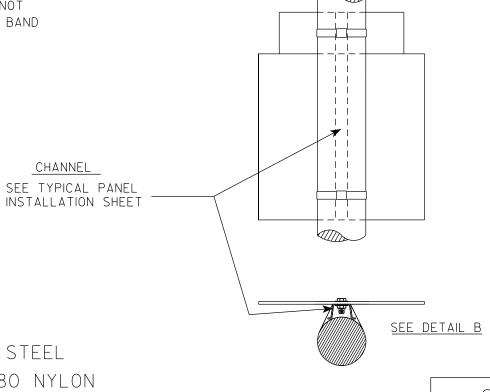
WASHERS (ALL POSTS) -

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

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

State Traffic Engineer DATE 6/10/19

PLATE NO. A5-9.4

Ε

HWY:

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

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

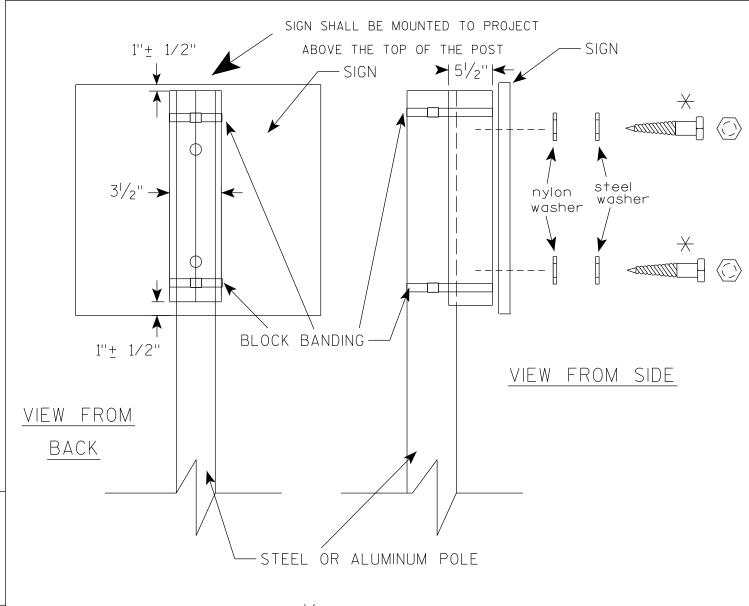
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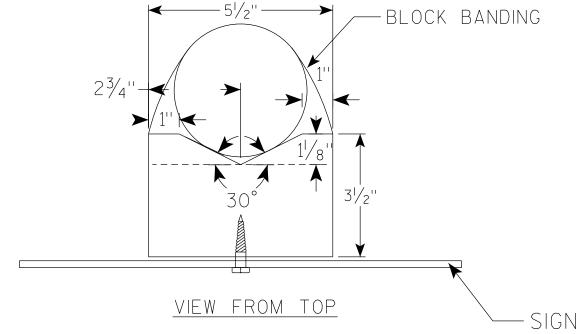
PROJECT NO:

PLOT BY: mscj9h

CHANNEL

SEE TYPICAL PANEL





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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 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 $2\frac{1}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>6/10/19</u>

PLATE NO. <u>A5-10.2</u>

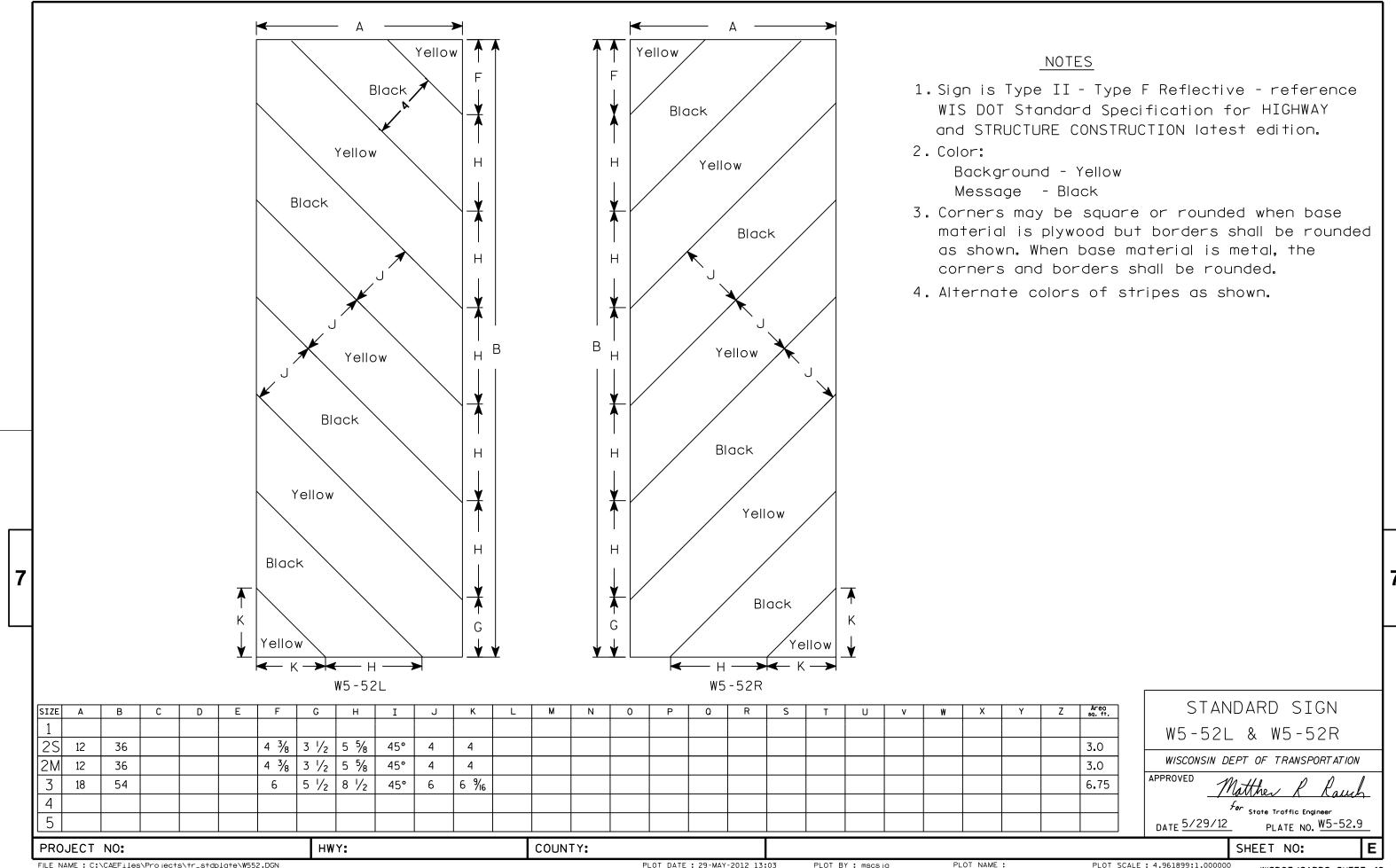
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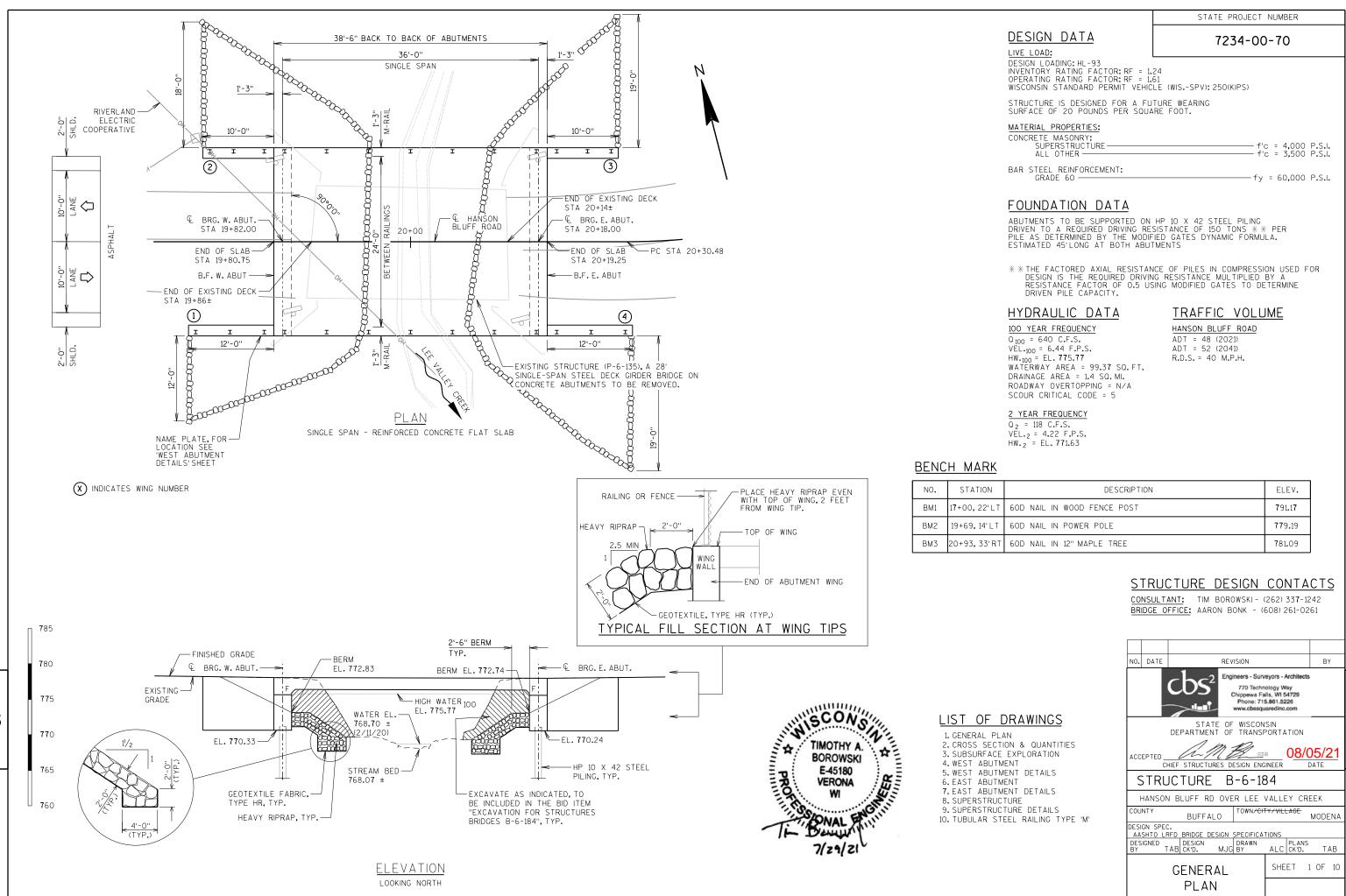
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PLOT DATE: 10-JUN 2019 4:15

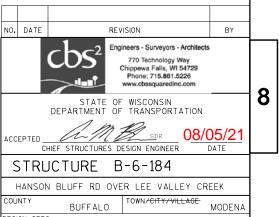
PLOT BY: mscj9h

WISDOT/CADDS SHEET 42





STATE PROJECT NUMBER



1'-0"

SLAB THICKNESS

TOTALS

200

129

136

3240

15385

127

360

142

130

50

215

67

1/2", 3/4"

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

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

BEVEL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE FABRIC HR TO THE LIMITS SHOWN ON SHEET 1 AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER.

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.

THE QUANTITY FOR "BACKFILL STRUCTURE TYPE A" IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

• PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF SLAB SURFACES, VERTICAL SLAB EDGE AND EXTERIOR 1'-0" OF SLAB UNDERSIDE.

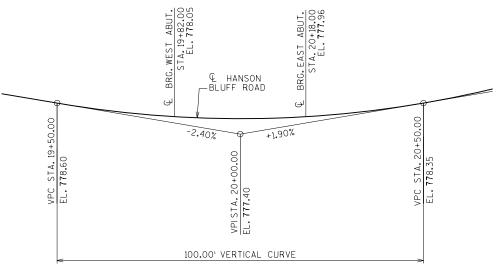
SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

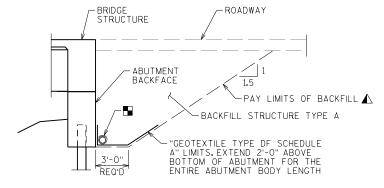
igotimes 3''" V-GROOVE,5" FROM EDGE OF SLAB.EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT.

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" FOR THE ABUTMENTS.

SUBSURFACE MATERIAL NEAR THE BOTTOM OF THE SUBSTRUCTURES ARE SOFT AND SHOULD BE CONSIDERED ACCORDINGLY FOR EXCAVATION AND BACKFILL OPERATIONS.

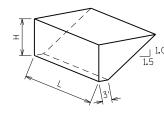


PROFILE GRADE LINE HANSON BLUFF ROAD



TYPICAL SECTION THRU ABUTMENT

- ⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL 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.



ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)

= AVERAGE ABUTMENT FILL HEIGHT (FT) = EXPANSION FACTOR (1.20 FOR CY BID ITEMS

AND 1.00 FOR TON BID ITEMS) $V_{CF} = (L)(3.0)(H) + (L)(0.5)(1.5H)(H)$ $V_{CY} = V_{CF}(EF)/27$ $V_{TON} = V_{CY}(2.0)$

REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-6-184

CROSS SECTION

PLANS CK'D. TAB SHEET 2 OF 10 & QUANTITIES

-HP 10 X 42 STEEL PILING, TYP. CROSS SECTION THRU ROADWAY TOTAL ESTIMATED QUANTITIES

EXCAVATION FOR STRUCTURES BRIDGES B-6-184

BAR STEEL REINFORCEMENT HS STRUCTURES

RUBBERIZED MEMBRANE WATERPROOFING

PILING STEEL HP 10-INCH X 42 LB

PIPE UNDERDRAIN WRAPPED 6-INCH

GEOTEXTILE TYPE DF SCHEDULE A

BAR STEEL REINFORCEMENT HS COATED STRUCTURES

NON-BID ITEMS

BACKFILL STRUCTURE TYPE A

CONCRETE MASONRY BRIDGES

RAILING TUBULAR TYPE M

RIPRAP HEAVY

FILLER

GEOTEXTILE TYPE HR

FLASHING STAINLESS STEEL

PROTECTIVE SURFACE TREATMENT

BID ITEMS

REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-6-135

1'-3'

TUBULAR STEEL RAILING TYPE 'M', SEE SHEET 10

 \mathbf{O}

1'-0"

FOR DETAILS

26'-6"

24'-0" CLEAR ROADWAY WIDTH

TOP OF BERM

LOOKING EAST

UNIT

FACH

LS

CY

SY

LB

LB

LF

SY

LF

CY

LF

SY

SY

LF

SIZE

TON

12'-0"

2.0%

-POINT REFERRED TO ON PROFILE GRADE LINE

WEST ABUT.

100

30

1620

1530

25

180

75

65

25

115

ARUT

100

1620

15.30

25

180

65

25

100

SUPER.

69

136

12325

77

67

12'-0"

L HANSON BLUFF ROAD-

NUMBER

203,0260

206.1000

210.1500

502.0100

502.3200

505.0400

505-0600

513,4061

516.0500

550,1100

606.0300

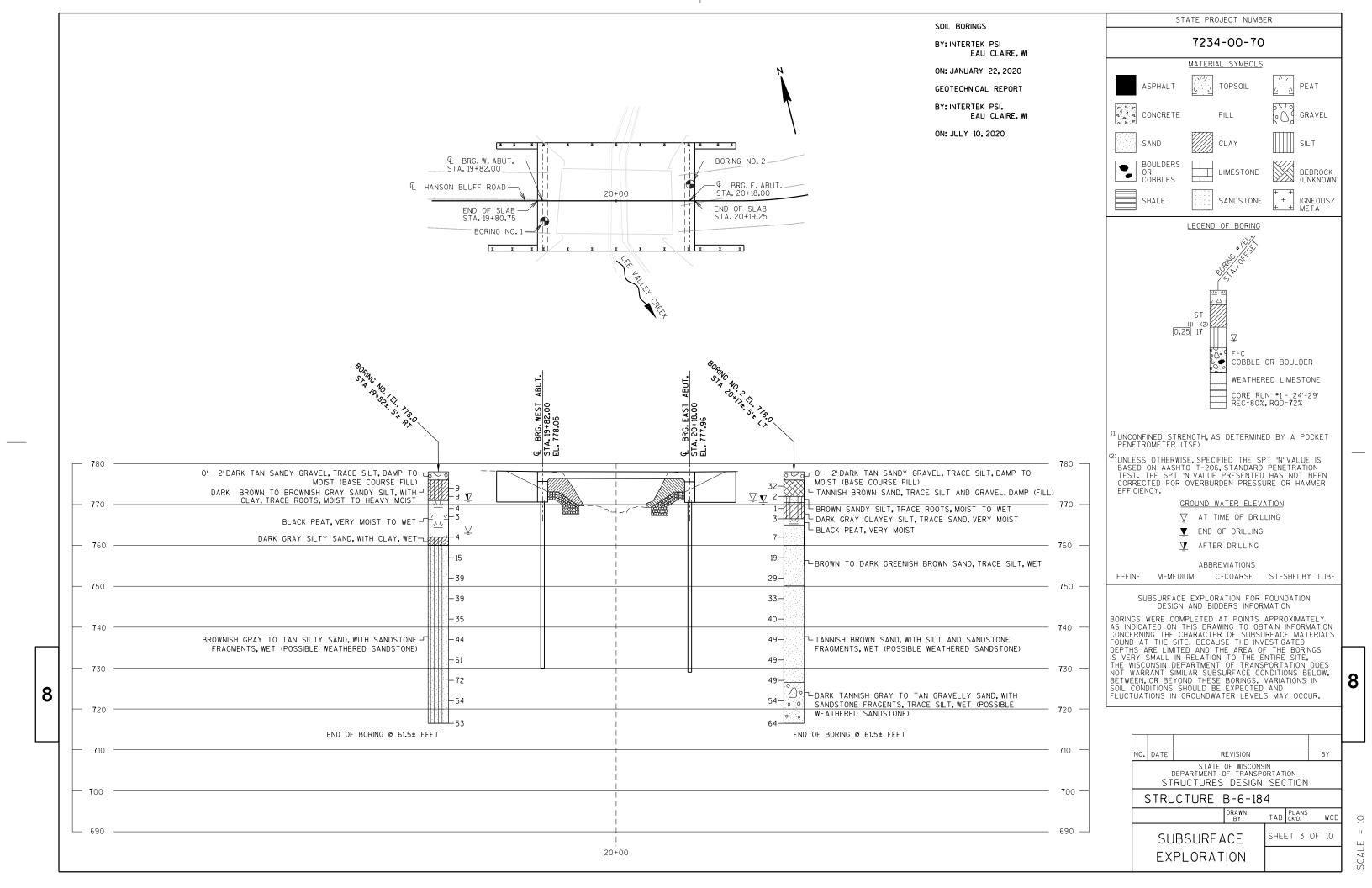
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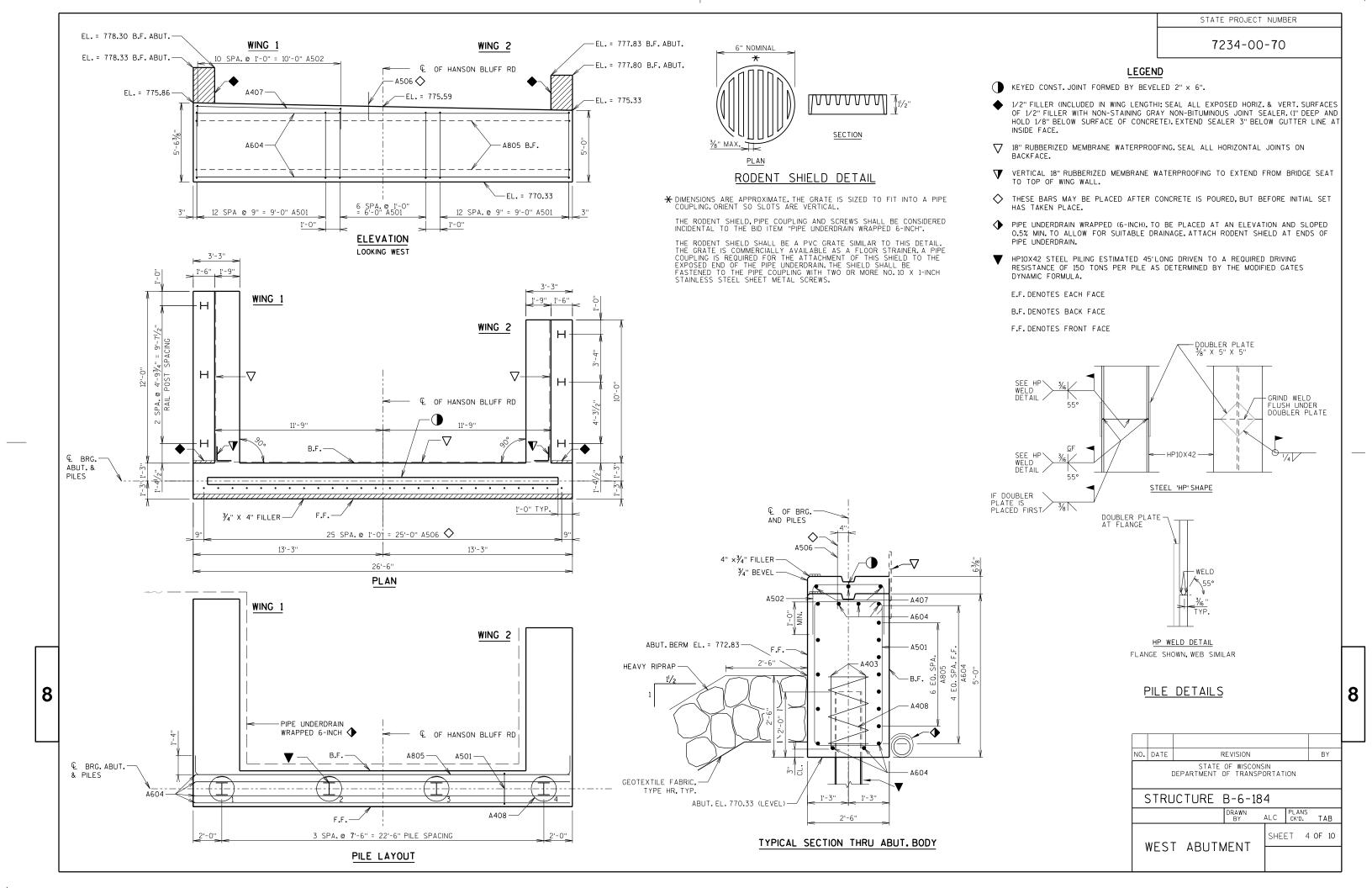
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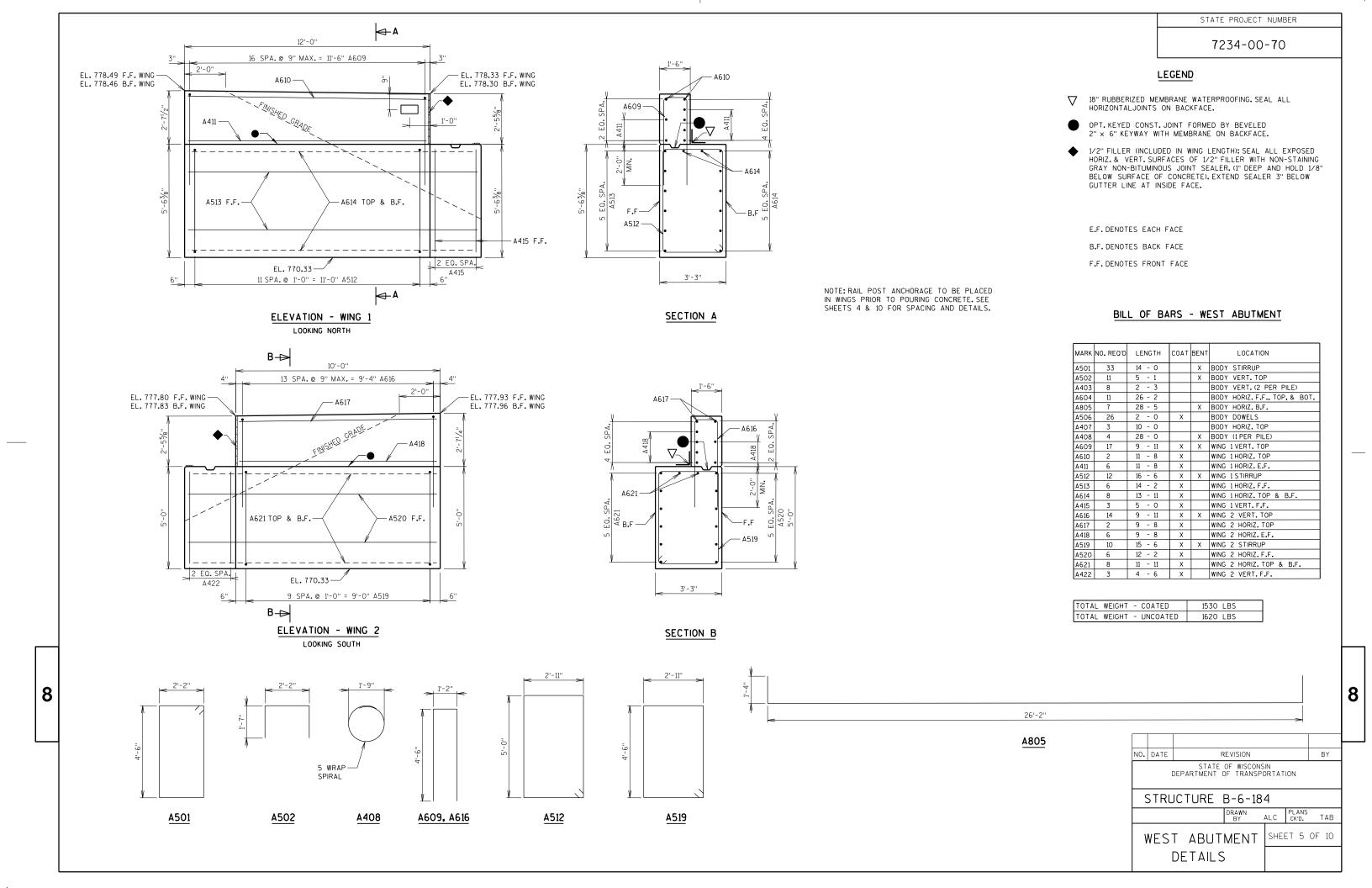
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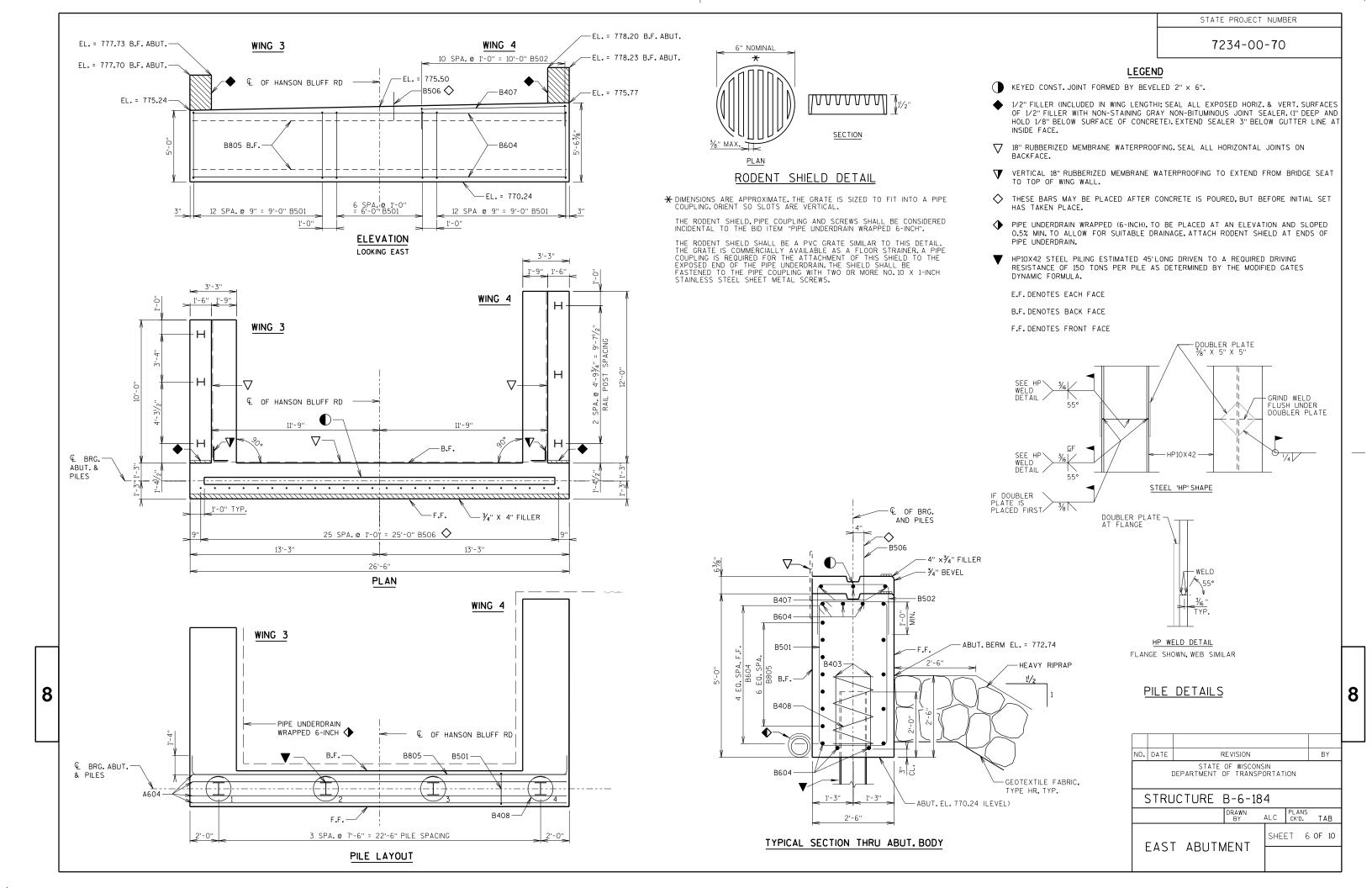
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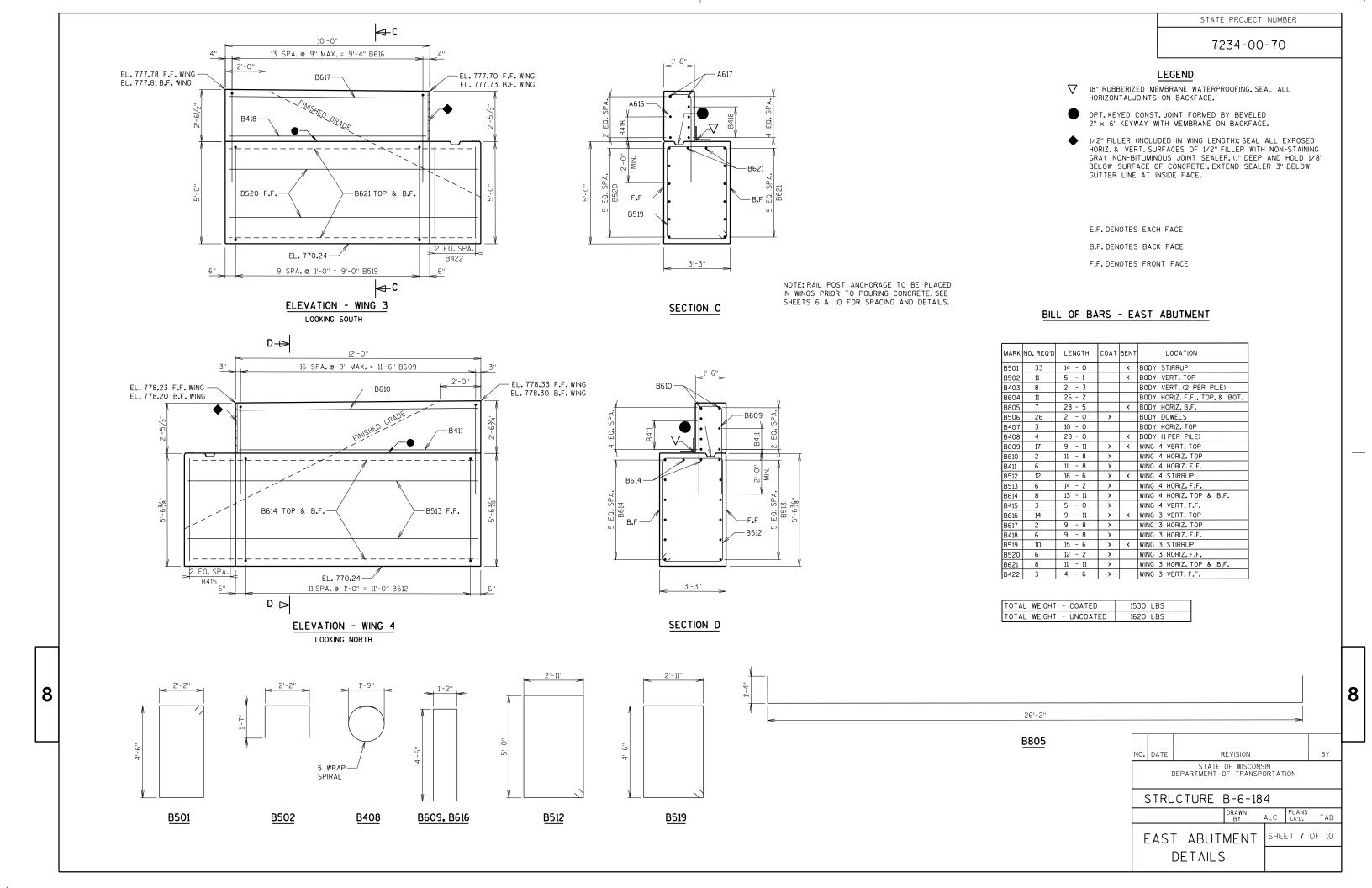
BY

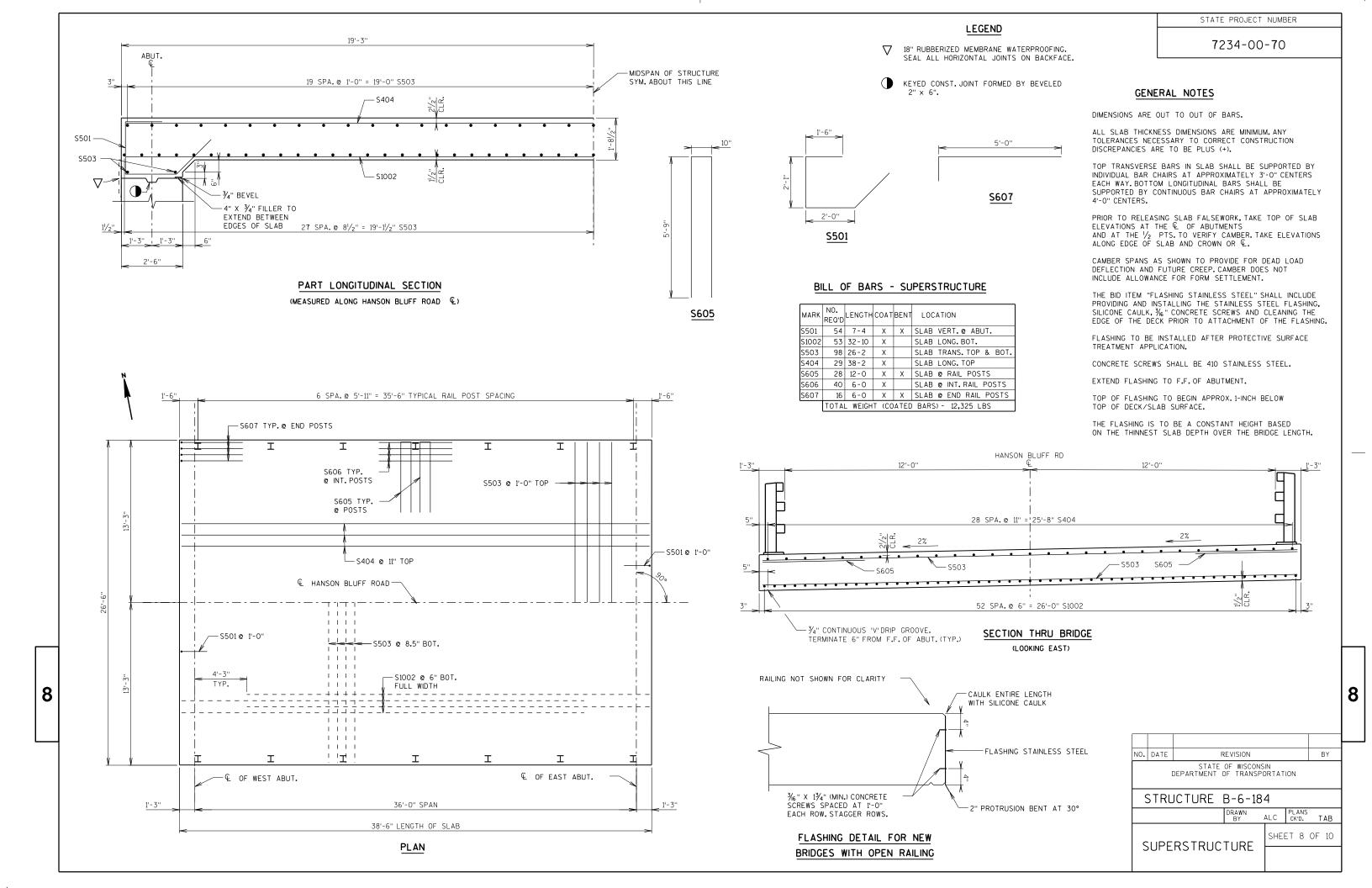












7234-00-70

36' SPAN 1 <--CAMBER 6/10 PT. 7/10 PT. ≪SLAB THICKNESS

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, SIDEWALKS AND MEDIANS 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 CAMBER 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

	€ BRG. W. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	€ BRG. E. ABUT.
N. EDGE OF DECK	777.79	777.75	777.72	777.70	777.68	777.67	777.67	777.67	777.67	777.68	777.70
Ę	778.05	778.02	777.99	777.97	777.95	777.94	777.93	777.93	777.94	777.95	777.96
S. EDGE OF DECK	778.32	778.28	778.25	778.23	778.21	778.20	778.20	778.20	778.20	778.21	778.23

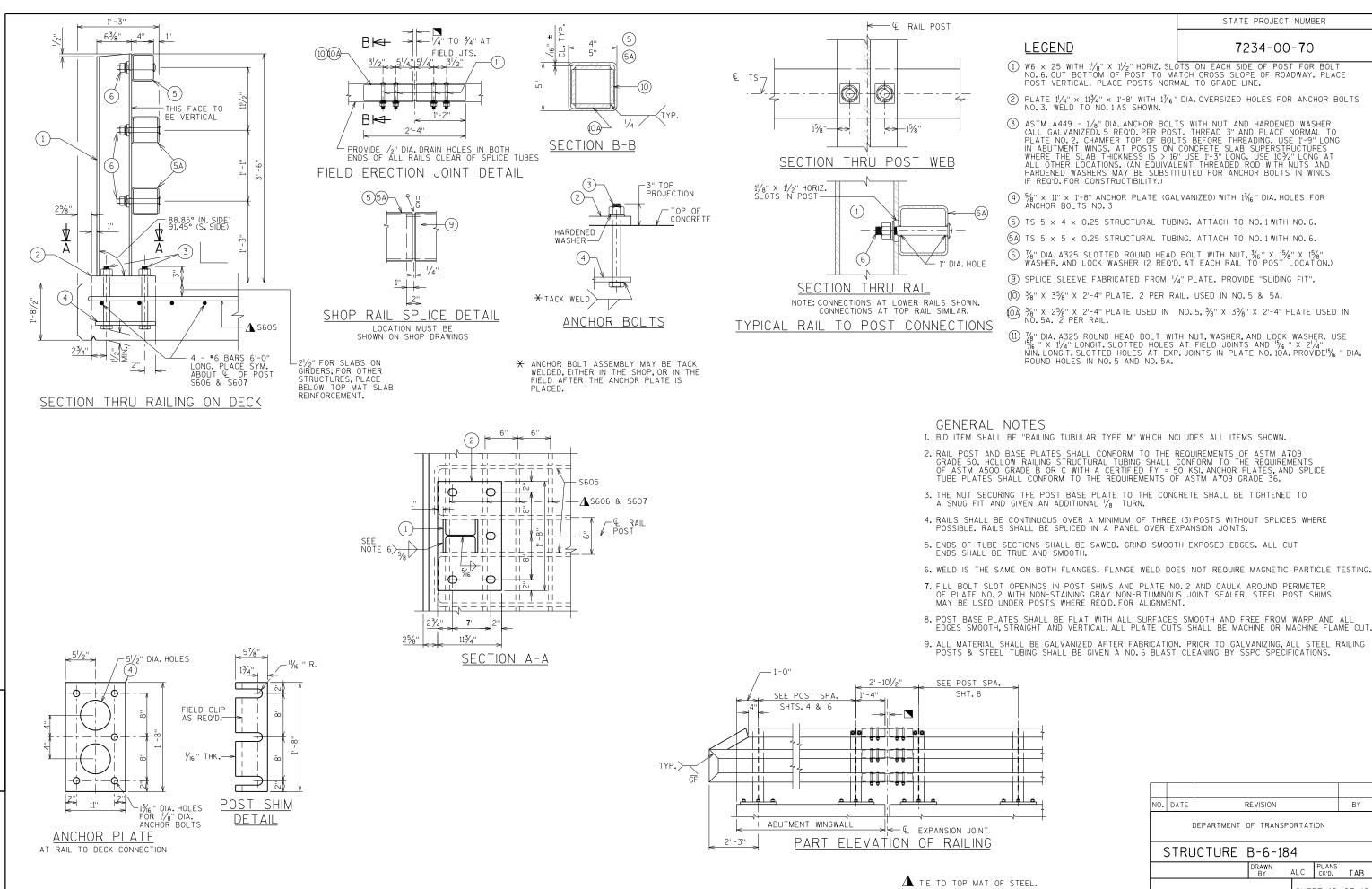
SURVEY TOP OF SLAB ELEVATIONS

	ABUTMENT	5/10 PT.	ABUTMENT
N. EDGE OF SLAB			
Q.			
S.EDGE OF SLAB			

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

8

NO.	DATE	R	EVISION			BY	
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
STRUCTURE B-6-184							
	TAB						
SI	JPEI	ET 9	OF 10				
	[DETAILS					



SHEET 10 OF 10 TUBULAR STEEL RAILING TYPE 'M

MAINLINE EARTHWORK

		AREA (SF)		INCREMENTAL VOL	(CY) (UNADJUSTED)		CUMULATIVE VOL (CY)	
STATION		SALVAGED/UNUSABLE		СИТ	FILL	CUT	EXPANDED FILL	MASS ORDINATE
	CUT	PAVEMENT MATERIAL	FILL			1.00	1.30	
				NOTE 1	NOTE 3	NOTE 1		NOTE 8
1950	21	0	0	0	0	0	0	0
1969	20	0	29	14	10	14	13	1
				14	10			

		AREA (SF)		INCREMENTAL VOL	(CY) (UNADJUSTED)		CUMULATIVE VOL (CY)	
STATION		SALVAGED/UNUSABLE		СПТ	FILL	СИТ	EXPANDED FILL	MASS ORDINATE
	CUT	PAVEMENT MATERIAL	FILL			1.00	1.30	
				NOTE 1	NOTE 3	NOTE 1		NOTE 8
20+31	24.2	0.0	64.5	0	0	0	0	0
20+50	27.8	0.0	0.0	18	22	18	29	-11
				18	22			

Notes	
i-CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - F(LL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	EBS AND MARSH EXCLUSED OUTSIDE 1:1 IN FILL SLOPES

9

PROJECT NO: 7234-00-70 HWY: HANSON BLUFF ROAD COUNTY: BUFFALO CROSS SECTIONS: EARTHWORK SHEET **E**

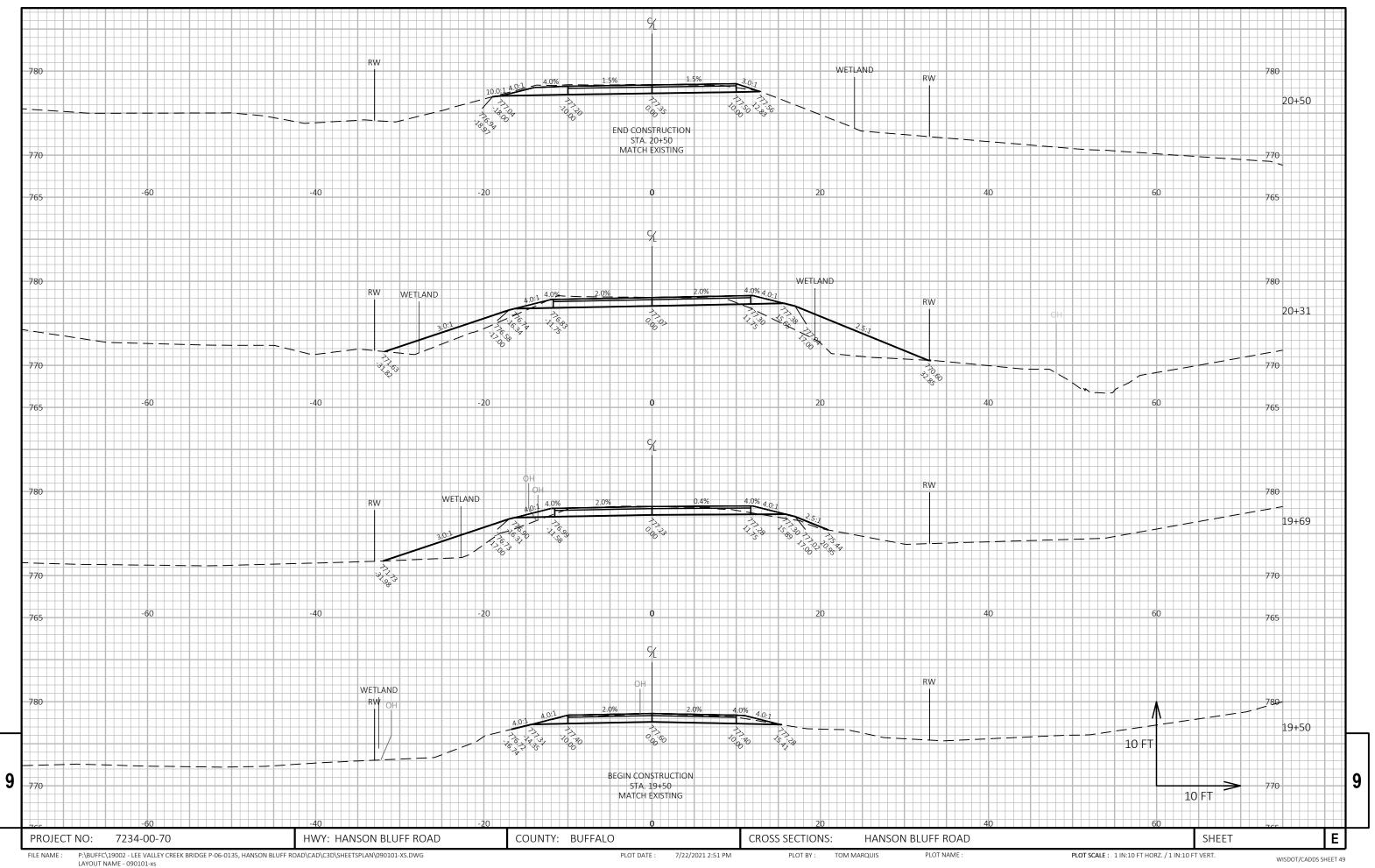
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PLOT DATE : 7/22/2021 2:49 PM

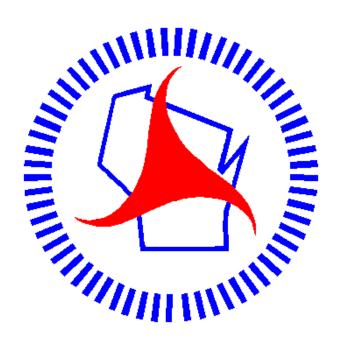
PLOT BY: TOM MARQUIS

PLOT NAME :

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



Notes



Wisconsin Department of Transportation

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