MARCH 2024

Section No.

TOTAL SHEETS =

ORDER OF SHEETS STATE OF WISCONSIN Section No. DEPARTMENT OF TRANSPORTATION Section No. Typical Sections and Details Section No. Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

T LOYAL, MANN ROAD

N BR ONEILL CREEK BRIDGE B-10-0254

LOC STR **CLARK**

STATE PROJECT NUMBER 7846-00-70

= 22,000

Miscellaneous Quantities

Standard Detail Drawings

Computer Farthwork Data

Plan and Profile

Sign Plates

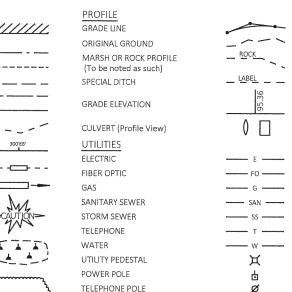
Structure Plans

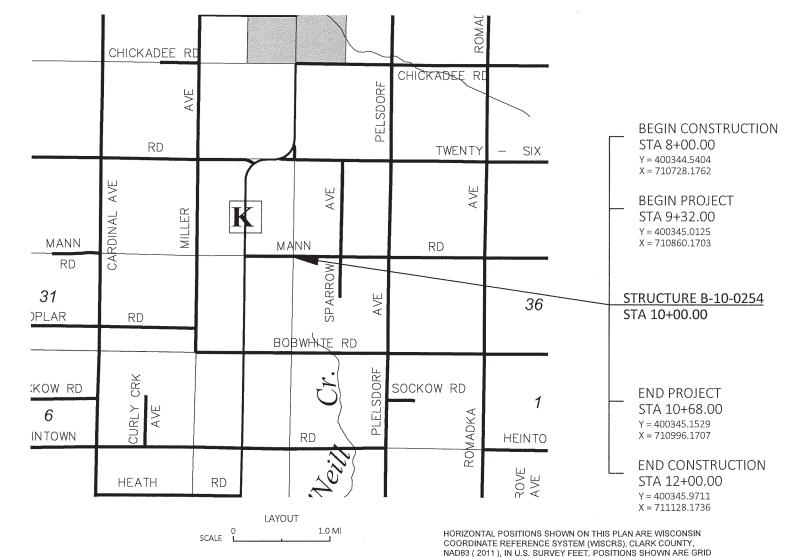
Cross Sections

DESIGN DESIGNATION 7846-00-70

2024 = 61 AADT 2044 = 67D.H.V. D.D. = 60/40= 15% = 55 MPH

CONVENTIONAL SYMBOLS CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCELINE **EXISTING CULVERT** PROPOSED CULVERT COMBUSTIBLE FLUIDS MARSH AREA





ACCEPTED FOR

FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2024299

STATE PROJECT

7846-00-70

ORIGINAL PLANS PREPARED BY

MENOMONIE - MADISON - GREEN BAY - CEDARBURG www.cedarcorp.com

800-472-7372 \$115CONS'/ TROY L. PETERSON E-31102 MENOMONIE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

REPARED BY

Designer Project Manager

Regional Examiner Regional Supervisor

Tyler Rongstad

DN: C-US, E-tyler rongstad@dot

UPDS Linit S, CN-Tyler Rongst

Dui: 20.21 10.5 00.09 23.05001

WOODED OR SHRUB AREA

FILE NAME: I:\CLIENTS-MENO\W\W3900 WDOT NW REGION - EAU CLAIRE\029 7846-00-00 T LOYAL MANN ROAD N BR ONEILL CREEK P-10-0938\04 CADD\78460000\\$HEETSPLAN\010101-TI.DWG PLOT DATE:

TOTAL NET LENGTH OF CENTERLINE = 0.026 MI

ELEVATIONS ARE REFERENCED TO NAVD 88 (2001). GPS DERIVED

ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE BASED ON GEOID 12A.

COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES

GENERAL NOTES

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE SALVAGED TOP SOIL, FERTILIZED, SEEDED, AND EROSION MAT CLASS I URBAN, TYPE A.

WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS. DO NOT OPERATE EQUIPMENT OUTSIDE OF THE SLOPE INTERCEPTS. DO NOT STORE OR STOCKPILE MATERIALS IN WETLANDS

WHEN THE QUANTITY OF ITEM BASE LAYER OR SURFACE LAYER IS MEASURED FOR PAYMENT BY THE TON, THE THICKNESS OF THE MATERIAL THAT IS SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE ENGINEER.

THE WISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR A MONUMENT WHICH SHALL BE SET IN THE STRUCTURE AS DESIGNATED BY ENGINEER.

STANDARD ABBREVIATIONS

ABUT	ABUTMENT	OFF	OFFSET
AGG	AGGREGATE	PC	POINT OF CURVATURE
ET AL	AND OTHERS	PI	POINT OF INTERSECTION
AADT	ANNUAL AVERAGE DAILY TRAFFIC	PT	POINT OF TANGENCY
BF	BACK FACE	POL	POINT ON LINE
BM	BENCHMARK	PE	PRIVATE ENTRANCE
C/L OR &	CENTERLINE	PL	PROPERTY LINE
Δ	CENTRAL ANGLE OR DELTA	PSI	POUNDS/SQUARE INCH
CLR	CLEAR	PROP	PROPOSED
CONC	CONCRETE	R	RADIUS
CONST	CONSTRUCTION	RR	RAILROAD
COR	CORNER	REBAR	REINFORCEMENT BAR
CMP	CORRUGATED METAL PIPE	REQ'D	REQUIRED
CTH	COUNTY TRUNK HIGHWAY	RT	RIGHT
CR	CREEK	RHF	RIGHT-HAND FORWARD
CFS	CUBIC FEET/SECOND	R/W	RIGHT-OF-WAY
CUIV	CULVERT	RD	ROAD
D	DEGREE OF CURVE	SEC	SECTION
DHV	DESIGN HOUR VOLUME	S	SOUTH
DIA	DIAMETER	SE	SOUTHEAST
E	FAST	SW	SOUTHWEST
EL	ELEVATION	STH	STATE TRUNK HIGHWAY
EST	ESTIMATED	STA	STATION
FPS	FEET PER SECOND	SF	SUPER ELEVATION
FE	FIELD ENTRANCE	JE T	TANGENT
FT	FOOT (FEET)	TEL	TELEPHONE
FTG	FOOTING	TEMP	TEMPORARY
FDN	FOUNDATION	TI	TEMPORARY INTEREST
FDIN FF		TLE	
IP	FRONT FACE		TEMPORARY LIMITED EASEMENT
IT	IRON PIN	TL OR T/L T	TRANSIT LINE
	LEFT HAND FORWARD	•	TRUCKS
LHF	LEFT-HAND FORWARD	TYP	TYPICAL
L	LENGTH OF CURVE	U/G	UNDERGROUND
LF	LINEAR FOOT	USH	UNITED STATES HIGHWAY
MAX	MAXIMUM	VAR	VARIABLE
MI	MILE	V	VELOCITY
MIN	MINIMUM	VPC	VERTICAL POINT OF CURVATURE
NC	NORMAL CROWN	VPI	VERTICAL POINT OF INTERSECTION
N	NORTH	VPT	VERTICAL POINT OF TANGENCY
NE	NORTHEAST	W	WEST
NW	NORTHWEST	YB	YARD
NO	NUMBER		

DNR CONTACT

DNR BLACK RIVER FALLS SERVICE CENTER 910 STATE HIGHWAY 54

BLACK RIVER FALLS, WI 54615-5450 ATTN: BRADLEY BETTHAUSER PH: (715) 213-9064

EMAIL: bradley.betthauser@wisconsin.gov

DESIGN CONSULTANT CONTACT

CEDAR CORPORATION 604 WILSON AVENUE MENOMONIE, WI 54751

ATTN: TROY L. PETERSON, P.E. PH: (715) 235-9081

EMAIL: troy.peterson@cedarcorp.com

MUNICIPALITY

TOWN OF LOYAL W3412 CHICKADEE ROAD LOYAL, WI 54446

ATTN: JESSE ZVOLENA, TOWN CHAIRMAN

(715) 613-9013 EMAIL: jfzvolena@gmail.com

UTILITY CONTACTS

* NO UTILITIES ON PROJECT



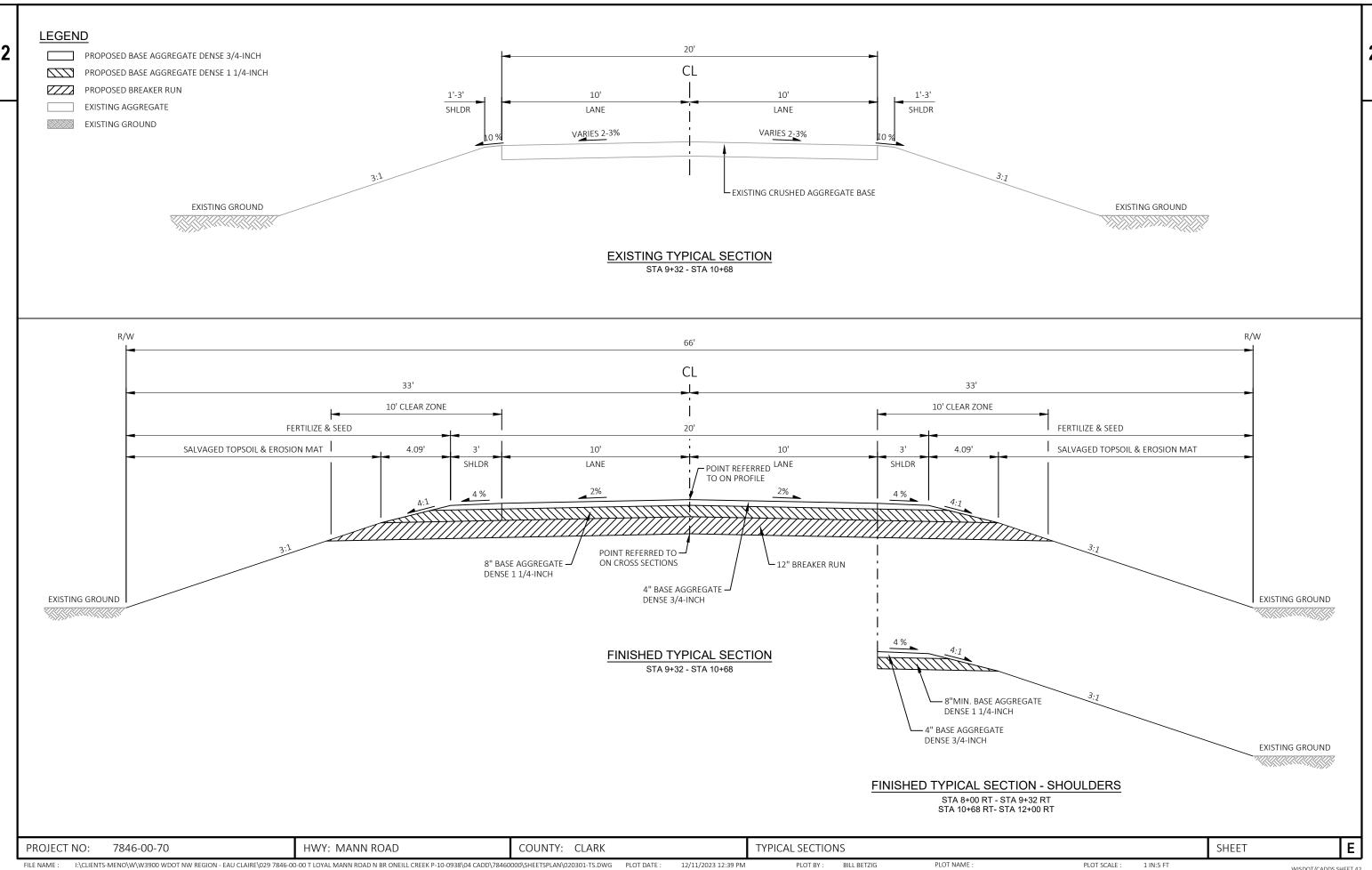
www.DiggersHotline.com
**DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS.

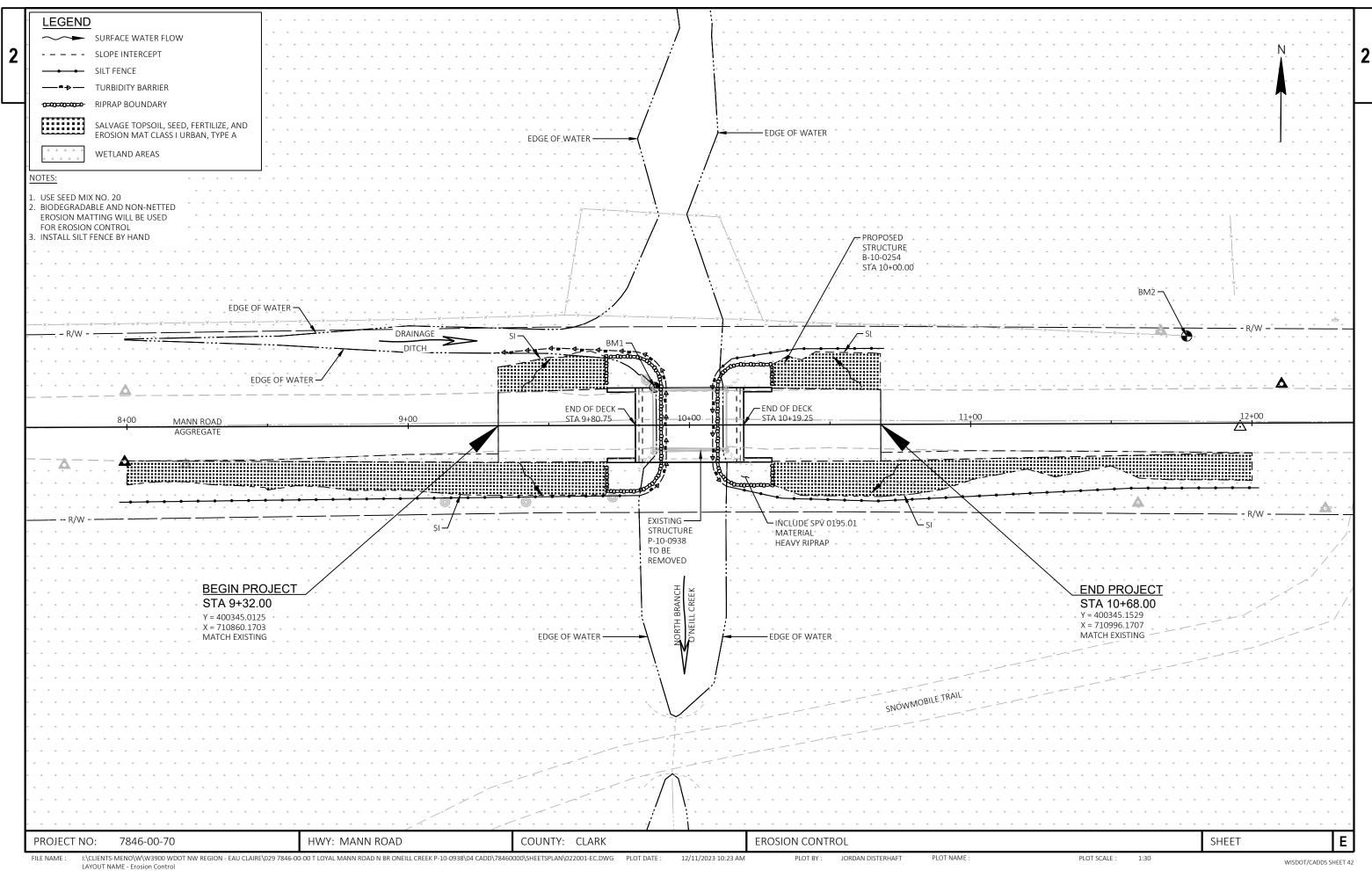
RUNOFF COEFFICIENT TABLE

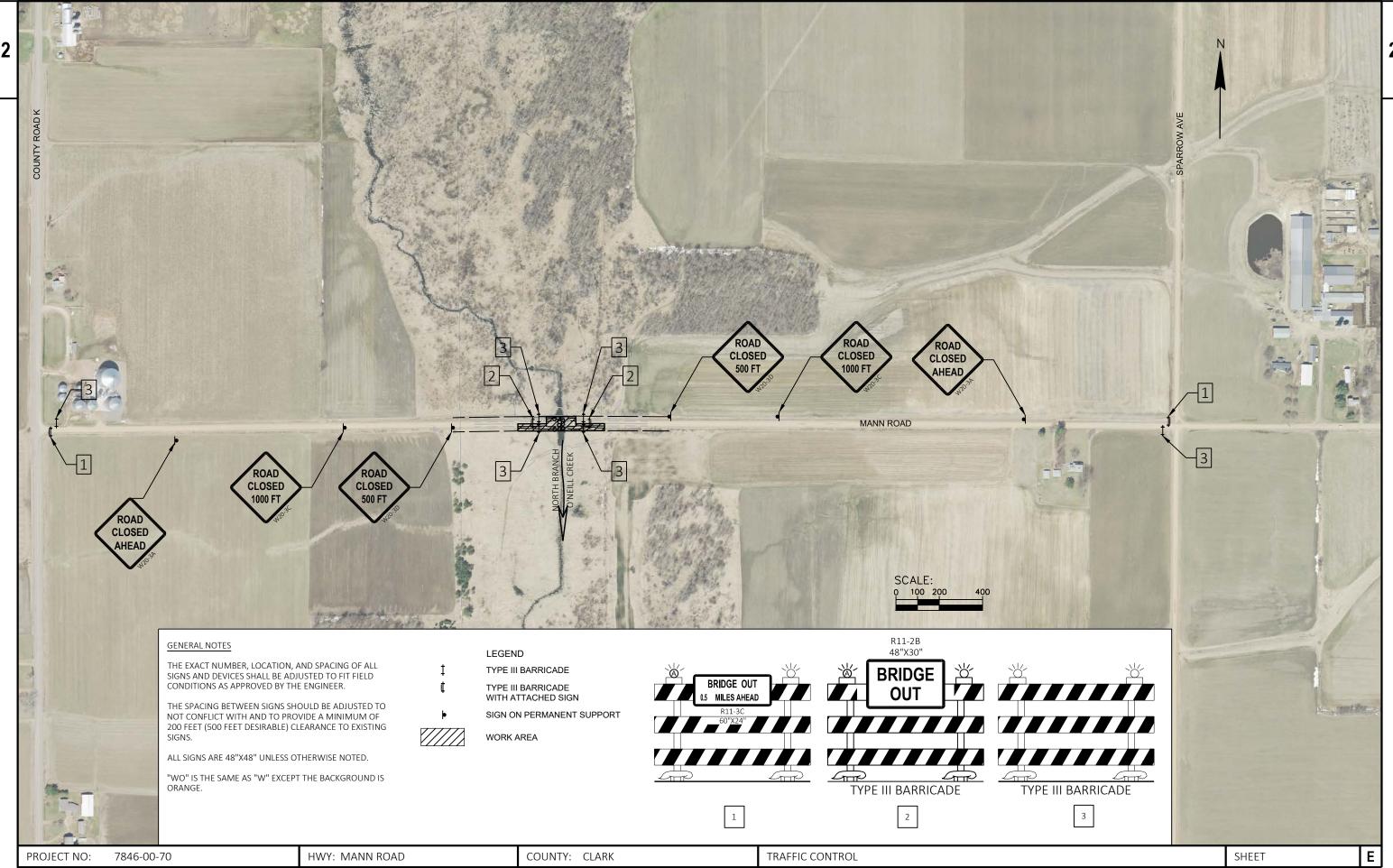
					F	IYDROLOGIC	SOIL GROU	JP					
		А			В			С			D		
	SLOPE	RANGE (PE	RCENT)	SLOPE	RANGE (PE	RCENT)	SLOPE	RANGE (PE	RCENT)	SLOPE	SLOPE RANGE (PERCENT)		
LAND USE:	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	0 - 2	2 - 6	6 & OVER	
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38	
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30	
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40	
SIDE SLOPE TURF			.25			.27			.28			.30	
			.32			.34			.36			.38	
PAYMENT:						•					•		
ASPHALT:						.70 -	95						
CONCRETE:						.80 -	95						
BRICK:						.70 -	80						
DRIVES, WALKS:						.75 -	85						
ROOFS:						.75 -	95						
GRAVEL ROADS, SHOULDERS:						.40 -	60						
TOTAL PROJECT AREA = 0.08 ACRES	1												

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.22 ACRES

Ε PROJECT NO: 7846-00-70 HWY: MANN ROAD COUNTY: CLARK **GENERAL NOTES** SHEET PLOT BY: FILE NAME : ##########







10/27/2023 10:10 AM

7846-00-70

3

Item	Item Description	Unit	Total	
203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-10-938	EACH	1.000	
205.0100	Excavation Common	CY	306.000	
206 1001	Execution for Structures Pridges (structure) 04, P. 40, 254	EACH	1 000	

Line	Item	Item Description	Unit	Total	Qty	
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-10-938	EACH	1.000	1.000	
0004	205.0100	Excavation Common	CY	306.000	306.000	
0006	206.1001	Excavation for Structures Bridges (structure) 01. B-10-254	EACH	1.000	1.000	
8000	210.1500	Backfill Structure Type A	TON	230.000	230.000	
0010	213.0100	Finishing Roadway (project) 01. 7846-00-70	EACH	1.000	1.000	
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	72.000	72.000	
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	131.000	131.000	
0016	311.0110	Breaker Run	TON	197.000	197.000	
0018	502.0100	Concrete Masonry Bridges	CY	125.000	125.000	
0020	502.3200	Protective Surface Treatment	SY	137.000	137.000	
0022	505.0400	Bar Steel Reinforcement HS Structures	LB	2,960.000	2,960.000	
0024	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	15,280.000	15,280.000	
0024	506.0105	Structural Steel Carbon	LB	480.000	480.000	
			LF			
0028 0030	513.4061	Railing Tubular Type M	SY	122.000	122.000 16.000	
	516.0500	Rubberized Membrane Waterproofing		16.000		
0032	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	320.000	320.000	
0034	606.0300	Riprap Heavy	CY	90.000	90.000	
0036	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000	
0038	618.0100	Maintenance and Repair of Haul Roads (project) 01. 7846-00-70	EACH	1.000	1.000	
0040	619.1000	Mobilization	EACH	1.000	1.000	
0042	624.0100	Water	MGAL	6.000	6.000	
0044	625.0500	Salvaged Topsoil	SY	457.000	457.000	
0046	628.1504	Silt Fence	LF	435.000	435.000	
0048	628.1520	Silt Fence Maintenance	LF	435.000	435.000	
0050	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000	
0052	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000	
0054	628.2006	Erosion Mat Urban Class I Type A	SY	457.000	457.000	
0056	628.6005	Turbidity Barriers	SY	52.000	52.000	
0058	629.0210	Fertilizer Type B	CWT	0.400	0.400	
0060	630.0120	Seeding Mixture No. 20	LB	8.000	8.000	
0062	630.0500	Seed Water	MGAL	5.000	5.000	
0064	634.0614	Posts Wood 4x6-Inch X 14-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	500.000	500.000	
0076	643.0705	Traffic Control Warning Lights Type A	DAY	1,000.000	1,000.000	
0078	643.0900	Traffic Control Signs	DAY	500.000	500.000	
0070	643.5000	Traffic Control	EACH	1.000	1.000	
			SY	38.000	38.000	
0082	645.0111	Geotextile Type DF Schedule A				
0084	645.0120	Geotextile Type HR	SY	170.000	170.000	
0086	650.4500	Construction Staking Subgrade	LF	98.000	98.000	
8800	650.5000	Construction Staking Base	LF	98.000	98.000	
0090	650.6501	Construction Staking Structure Layout (structure) 01. B-10-254	EACH	1.000	1.000	
0092	650.9911	Construction Staking Supplemental Control (project) 01. 7846-00-70	EACH	1.000	1.000	
0094	650.9920	Construction Staking Slope Stakes	LF	362.000	362.000	
0096	715.0502	Incentive Strength Concrete Structures	DOL	750.000	750.000	
0098	999.2005.S		EACH	1.000	1.000	
0100	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000	

12/28/2023 15:16:46

Page 2

E	Stimate	Of	Quantities

7846-00-70

Line	Item	Item Description	Unit	Total	Qty
0102	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0104	SPV.0090	Special 01. Flashing Stainless Steel	LF	77.000	77.000
0106	SPV.0195	Special 01. Select Crushed Material for Travel Corridor	TON	65.000	65.000

ı	
ı	つ
ı	5

EXCAVATION

205.0100 EXCAVATION

					COMMON	
CATEGORY	STATION	TO	STATION	LOCATION	CY	REMARKS
-						
0010	8+00	-	12+00	PROJECT	306	
				TOTAL 0010	306	

MISCELLANEOUS

					619.1000	642.5001	213.0100.01 FINISHING ROADWAY	
						FIELD OFFICE	(PROJECT) (01.	
					MOBILIZATION	TYPE B	7846-00-70)	
CATEGORY	STATION	TO	STATION	LOCATION	EACH	EACH	EACH	REMARKS
0010	8+00	-	12+00	PROJECT	1	1	1	
				TOTAL 0010	1	1	1	

AGGREGATES

					305.0110	305.0120 BASE	311.0110	624.0100	
					BASE	AGGREGATE			
					AGGREGATE	DENSE 1 1/4-			
					DENSE 3/4-INCH	INCH	BREAKER RUN	WATER	
CATEGORY	STATION	TO	STATION	LOCATION	TON	TON	TON	MGAL	REMARKS
0010	8+00	-	9+32	MANN ROAD	5	9	-	0	SHOULDER
0010	9+32	-	90+80.75	MANN ROAD	30	54	98	3	
0010	10+19.25	-	10+68	MANN ROAD	30	55	99	3	
0010	10+68	_	12+00	MANN ROAD	6	12	_	Ω	SHOULDER
0010	10100		12100	MANNINOAD	Ū	12			SHOOEDER

EROSION CONTROL

					628.1504	628.1520	628.1905	628.1910	628.6005	
								MOBILIZATIONS		
							MOBILIZATIONS	EMERGENCY		
						SILT FENCE	EROSION	EROSION	TURBIDITY	
					SILT FENCE	MAINTENANCE	CONTROL	CONTROL	BARRIERS	
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	EACH	EACH	SY	REMARKS
0010	8+00	-	10+00	MANN ROAD	185	185	-	-	37	
0010	10+00	-	12+00	MANN ROAD	250	250	1	1	15	
				TOTAL 0010	435	435	1	1	52	

Ε SHEET PROJECT NO: 7846-00-70 HWY: MANN ROAD COUNTY: CLARK MISCELLANEOUS QUANTITIES

PLOT NAME :

RESTORATION 625.0500 628.2006 629.0210 630.0120 630.0500
EROSION MAT SALVAGED URBAN CLASS I FERTILIZER TYPE SEEDING TOPSOIL TYPE A B MIXTURE NO. 20 SEED WATER
CATEGORY STATION TO STATION LOCATION SY SY CWT LB MGAL REMARKS 0010 8+00 - 10+00 MANN ROAD 237 237 0.2 4 3 0010 10+00 - 12+00 MANN ROAD 220 220 0.2 4 2
TOTAL 0010 457 457 0.4 8 5
<u>TYPE II SIGNING</u>
634.0614 637.2230 638.2602 638.3000 POSTS WOOD REMOVING 4X6-INCH X 14- SIGNS TYPE II REMOVING SMALL SIGN FT REFLECTIVE F SIGNS TYPE II SUPPORTS
CATEGORY STATION SIDE SIGN CODE WXH LOCATION EACH SF EACH EACH REMARKS 0010 9+70.75 LT W5-52L 12X36 MANN ROAD 1 3 1 1 0010 9+70.75 RT W5-52R 12X36 MANN ROAD 1 3 1 1
0010 10+20.25 LT W5-52L 12X36 MANN ROAD 1 3 1 1 0010 10+20.25 RT W5-52R 12X36 MANN ROAD 1 3 1 1 TOTAL 0010 4 12 4 4
TRAFFIC CONTROL
643.0420 643.0705 643.0900 643.5000 TRAFFIC TRAFFIC CONTROL BARRICADES WARNING TRAFFIC TRAFFIC
TYPE III LIGHTS TYPE A CONTROL SIGNS CONTROL CATEGORY LOCATION DAY DAY DAY DAY EACH REMARKS
0010 CTY RD K 50 100 200 50 1 0010 MANN RD 50 300 600 400 - 0010 SPARROW AVE 50 100 200 50 -
TOTAL 0010 500 1,000 500 1 STAKING
650.4500 650.5000 650.6501.01 650.9911.01 650.9920
CONSTRUCTION CONSTRUCTION STAKING STAKING STRUCTURE SUPPLEMENTAL CONSTRUCTION CONSTRUCTION
CONSTRUCTION LAYOUT CONTROL (7846- CONSTRUCTION STAKING CONSTRUCTION (STRUCTURE) 00-70) (01. B-10- STAKING SLOPE SUBGRADE STAKING BASE (01. B-10-254) 254) STAKES CATEGORY STATION TO STATION LOCATION LF LF EACH EACH LF REMARKS
0010 8+00 - 9+32 MANN ROAD 1 132 0010 9+32 - 90+80.75 MANN ROAD 49 49 1 - 49
0010 10+19.25 - 10+68 MANN ROAD 49 49 49

PROJECT NO: 7846-00-70

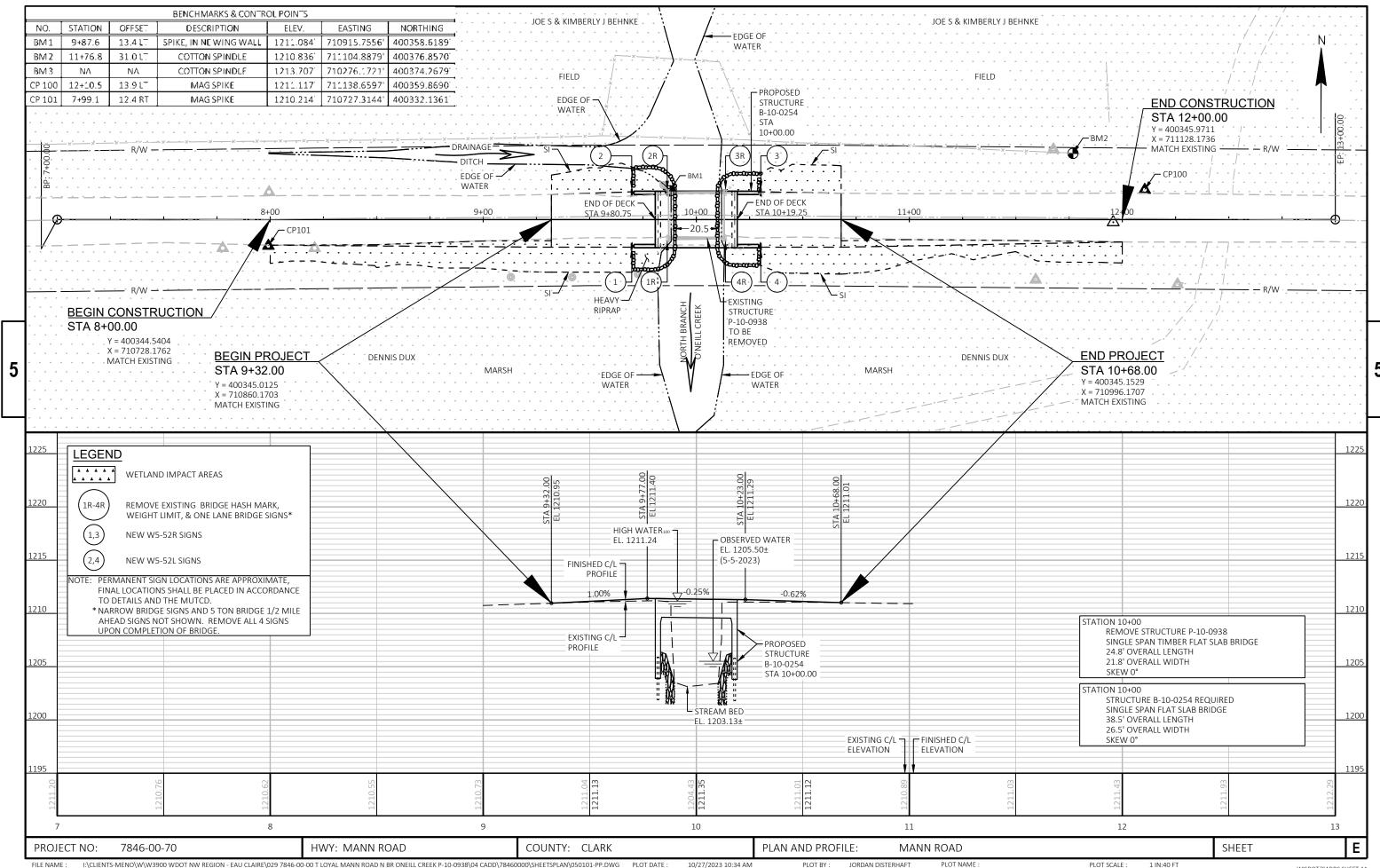
HWY: MANN ROAD

COUNTY: CLARK

MISCELLANEOUS QUANTITIES

SHEET

Ε

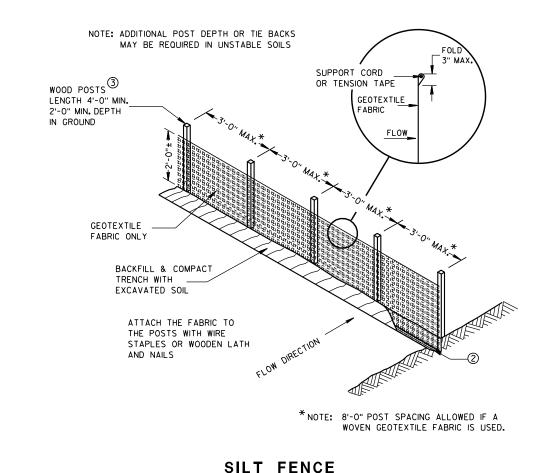


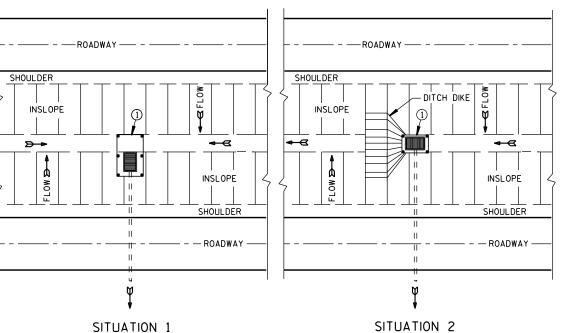
Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES

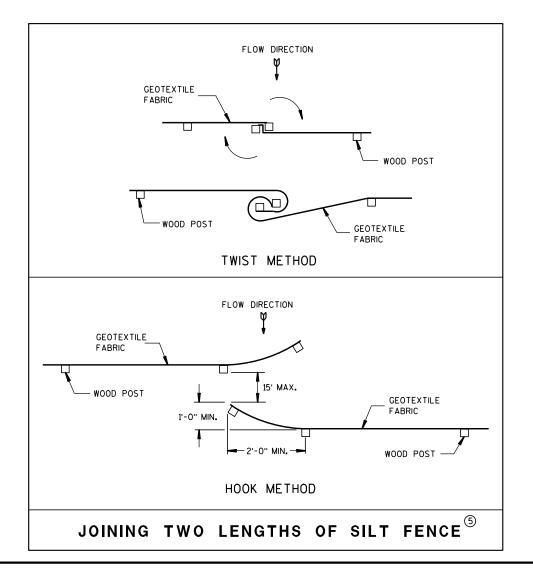
f

TYPICAL APPLICATION OF SILT FENCE





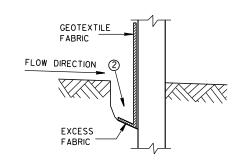
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



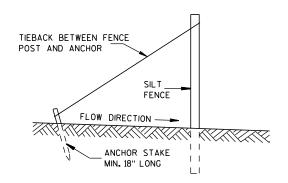
GENERAL NOTES

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



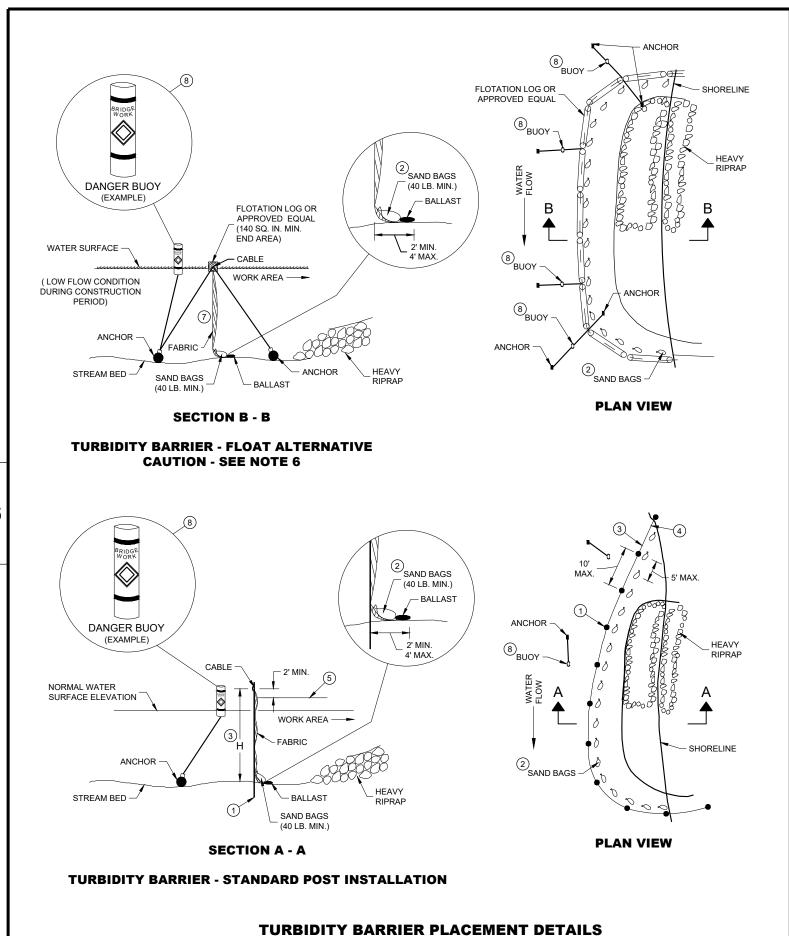
SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

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

Ш

တ ∞ Ω

6

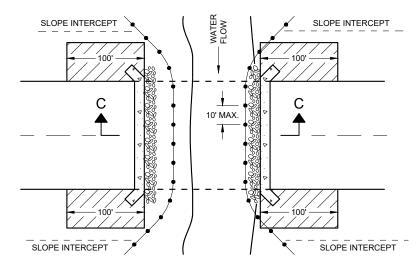


GENERAL NOTES

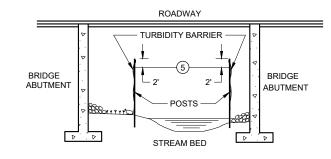
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

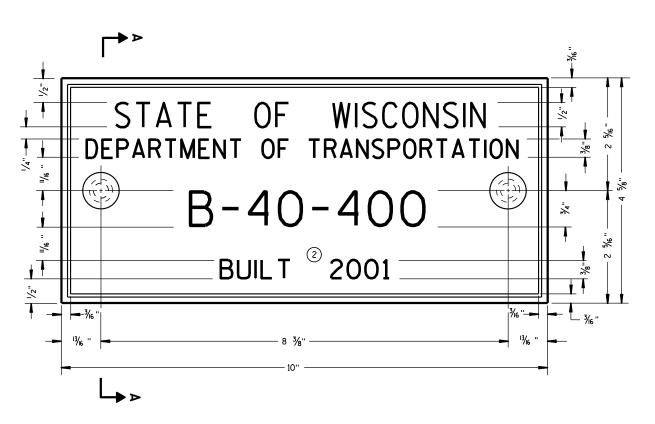
TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

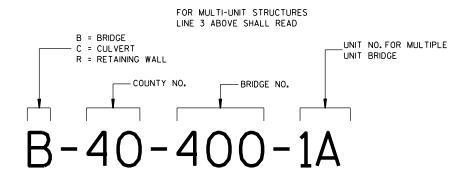
 ∞





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



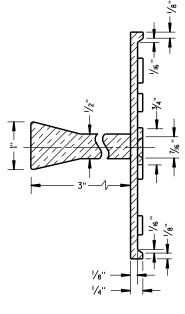
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

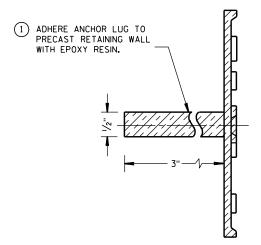
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

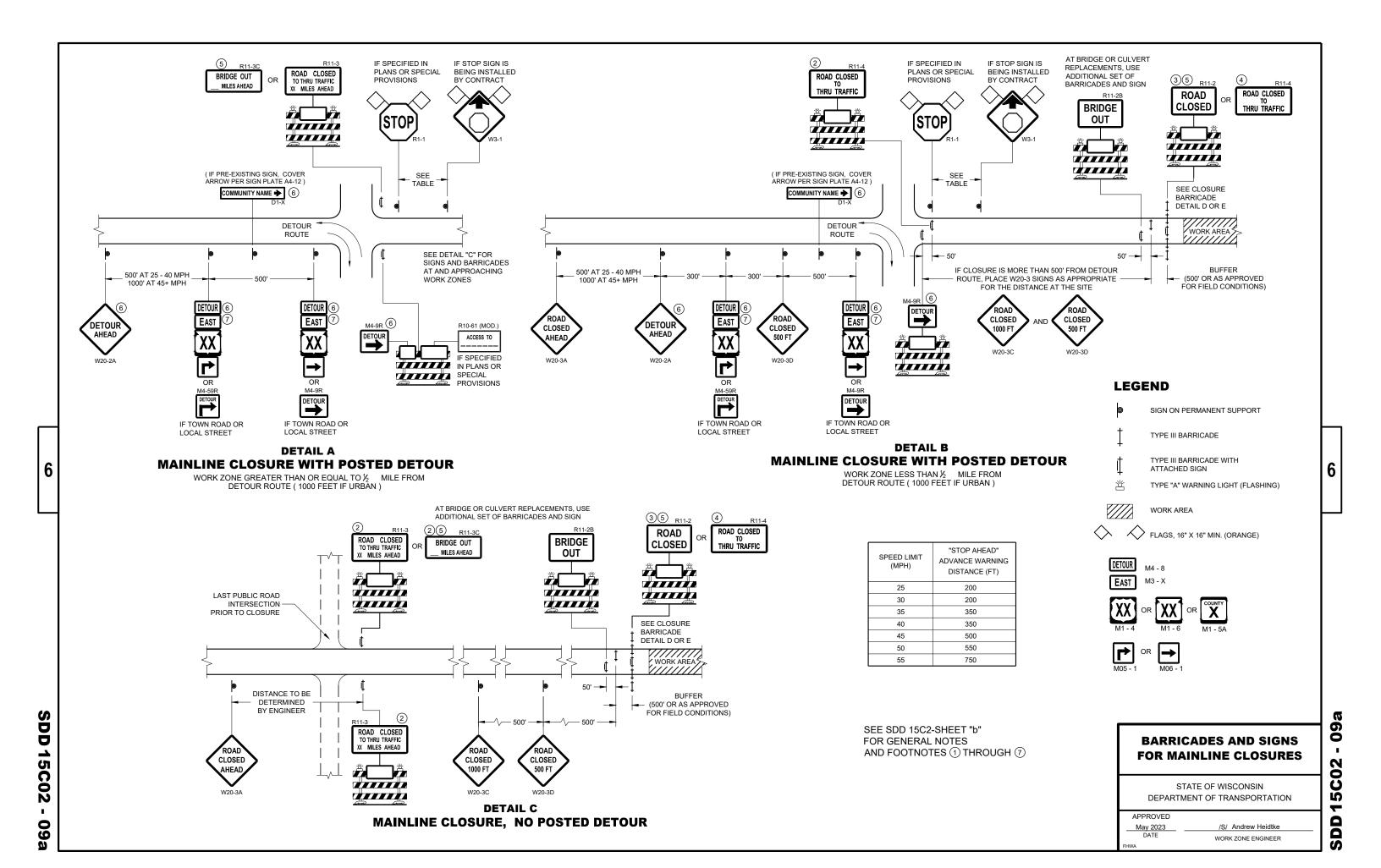
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

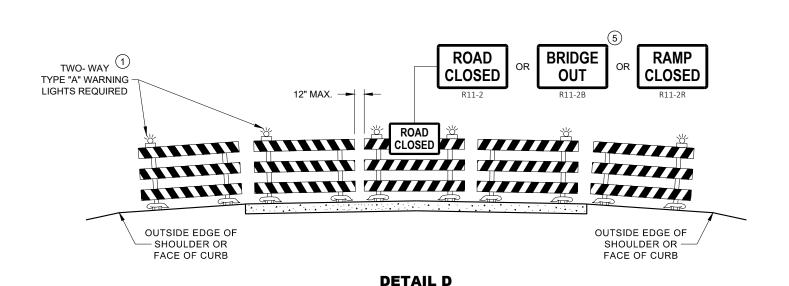
3-10

APPROVED

3/26/IO /S/ SCOT BECKET

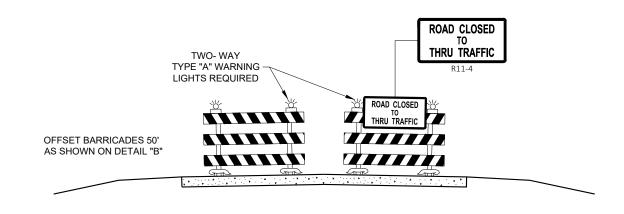
CHIEF STRUCTURAL DEVELOPMENT ENGINEER





ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



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

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

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

R1 - 1 SHALL BE 36" X 36"

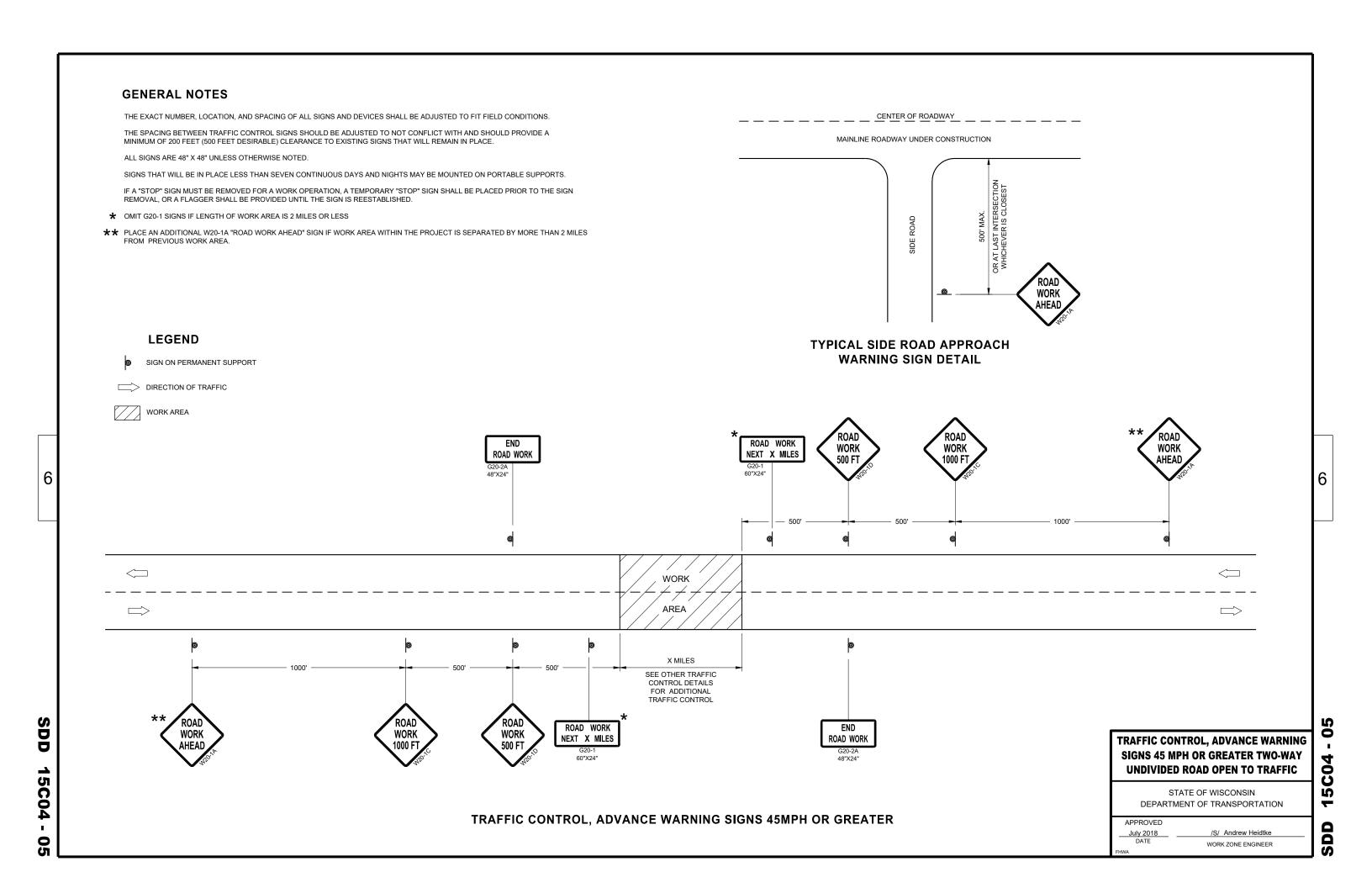
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS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

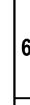
BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

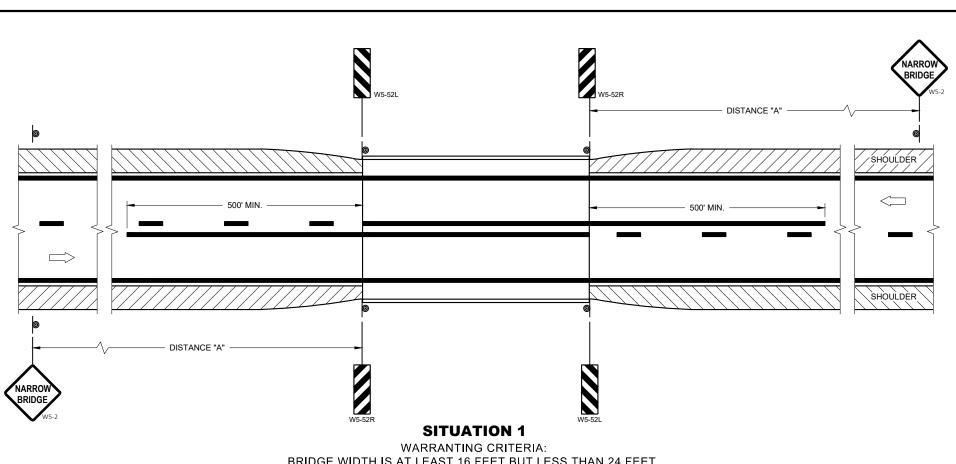
Ò 0 Ŋ



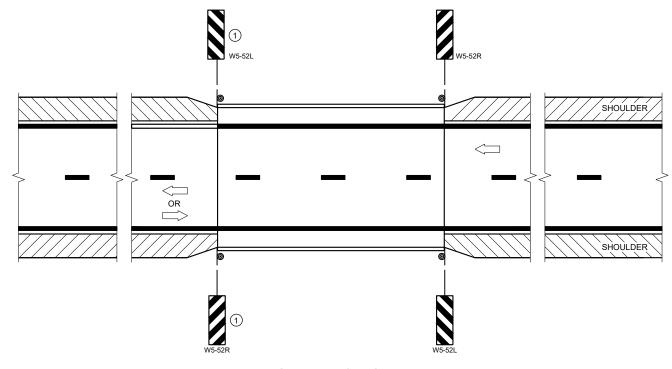


-90 5

SD



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



SITUATION 2

WARRANTING CRITERIA:

15C06-12

- 1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
- 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

(1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

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

SIGNING AND MARKING FOR TWO LANE BRIDGES

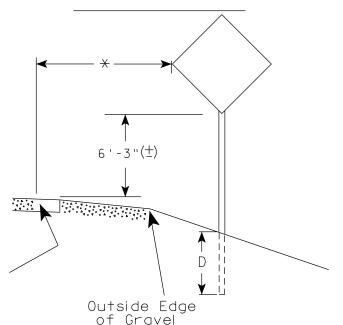
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

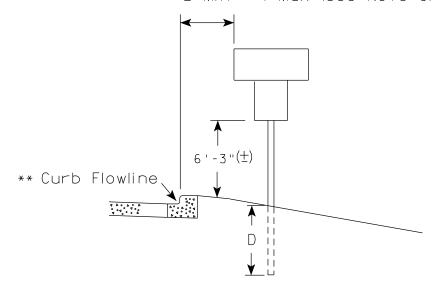
2' Min - 4' Max (See Note 6)

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

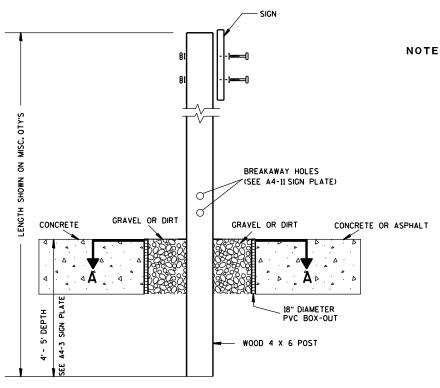
measured from the flow line.

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

PLOT BY : mscj9h

PLOT NAME :

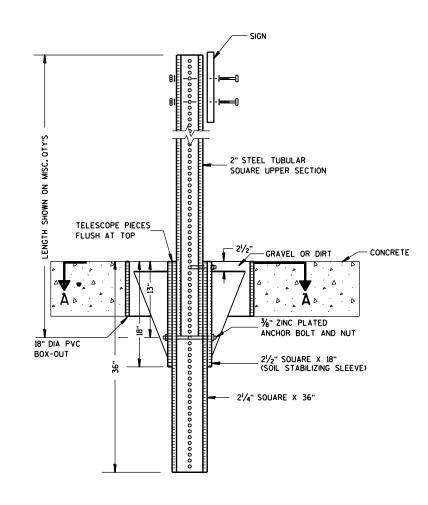
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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.



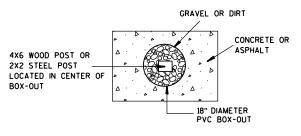
ELEVATION VIEW

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

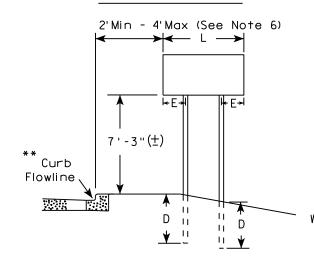
For State Traffic Engineer

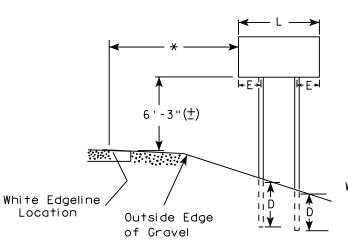
DATE 8/21/17 PLATE NO. A4-4.15

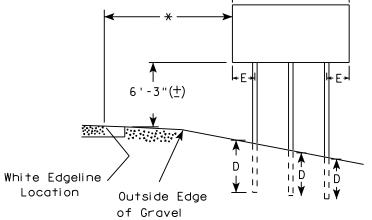
SHEET NO:

URBAN AREA

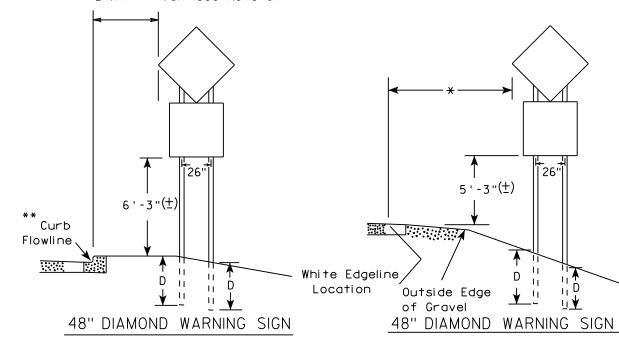
RURAL AREA (See Note 3)







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



	SIGN SHAPE OTHER THAN (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

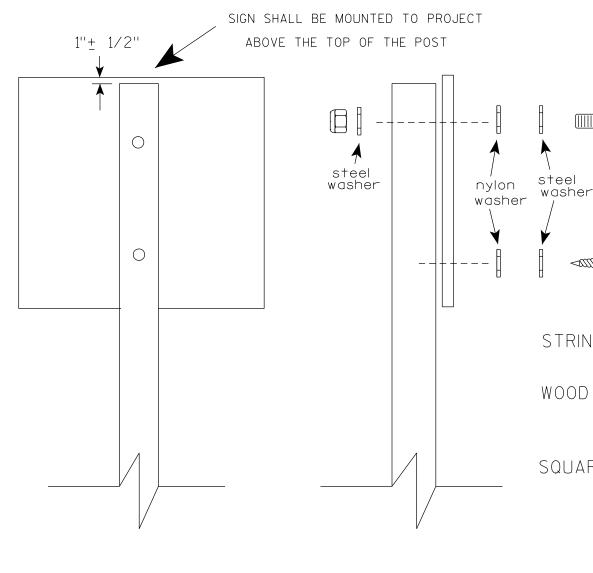
PROJECT NO:

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

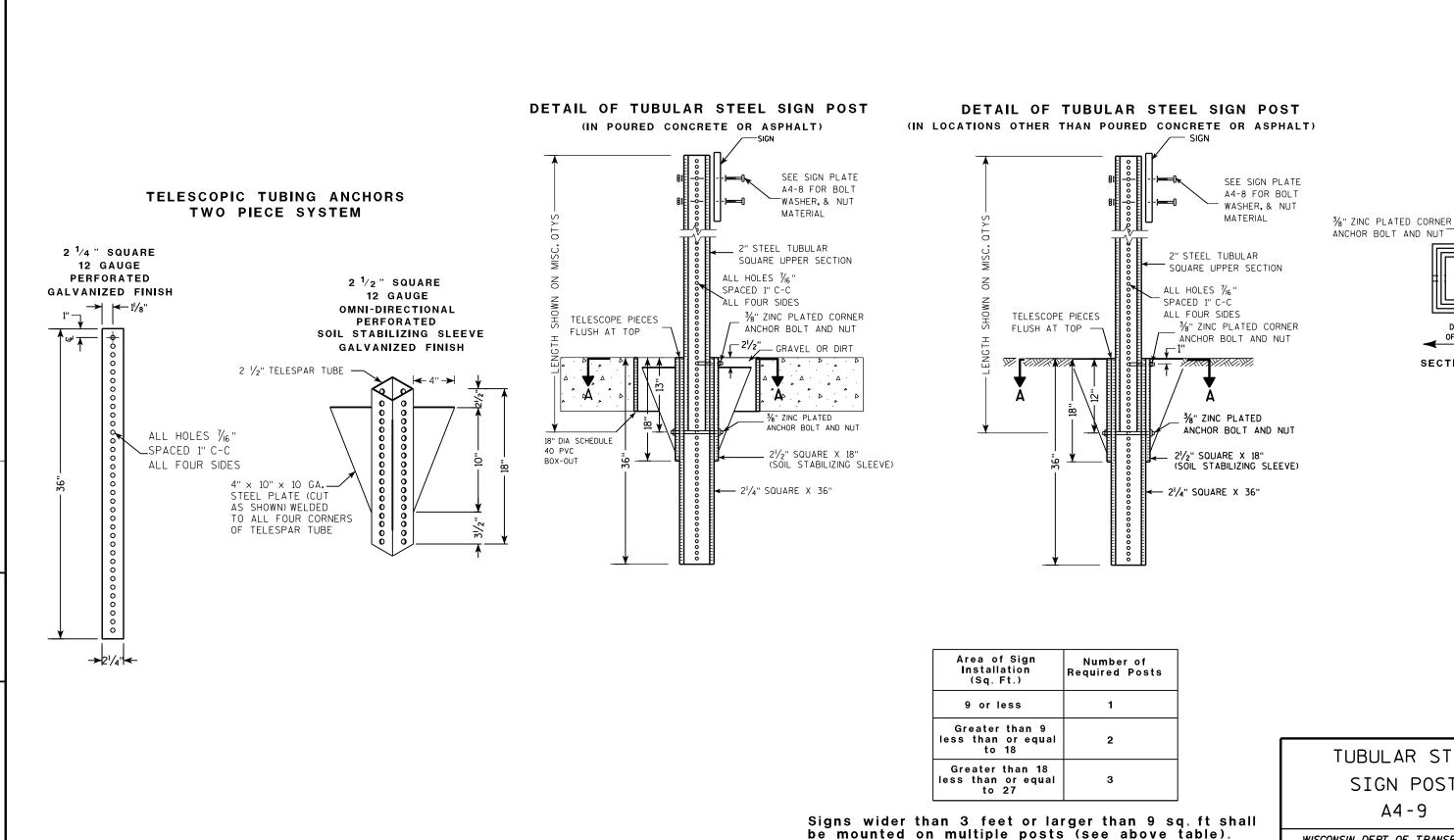
PLATE NO. <u>A4-8.9</u>

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

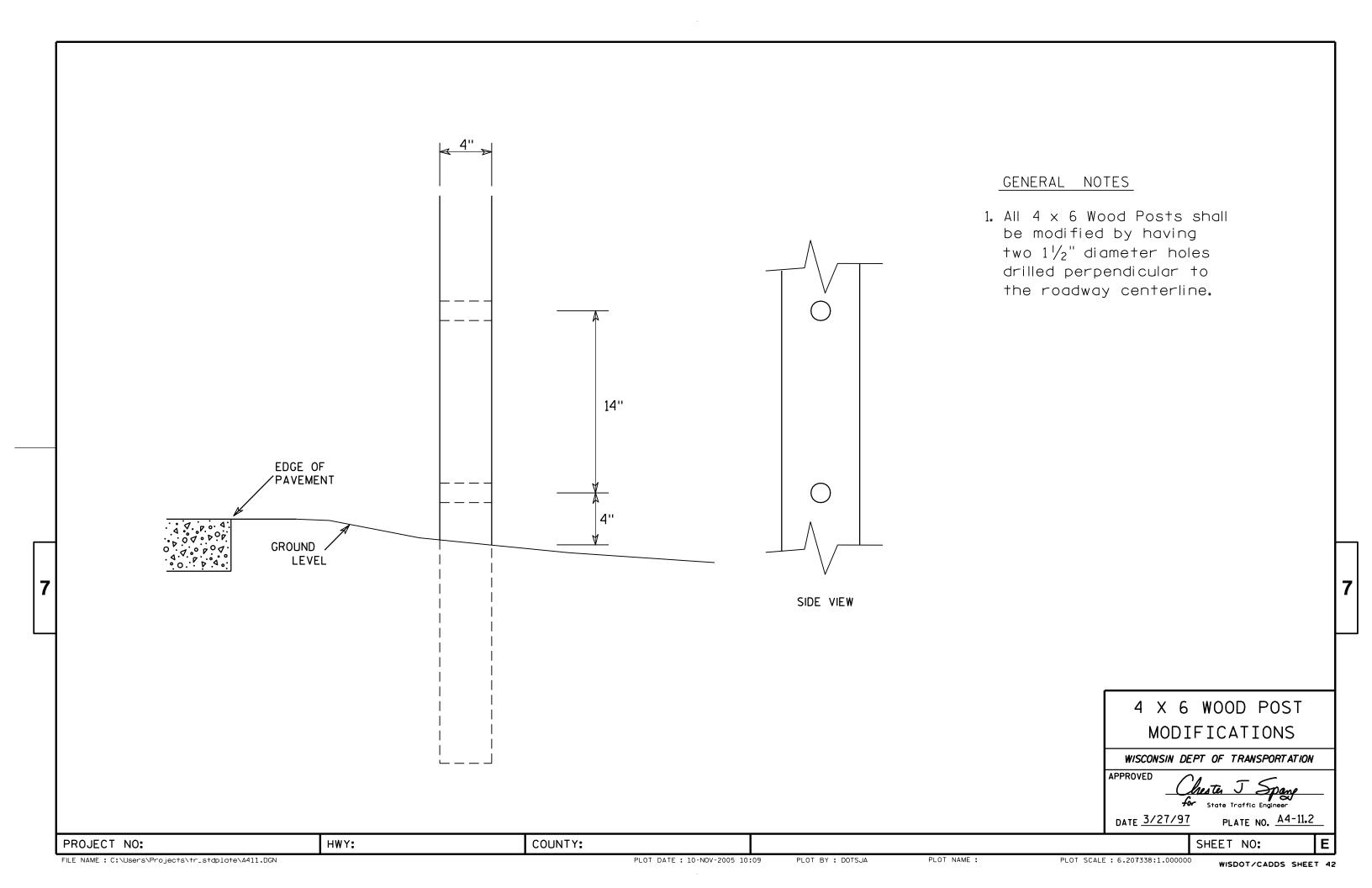
COUNTY:

PLOT NAME :

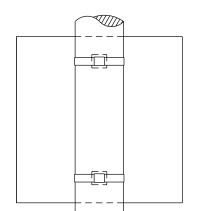
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

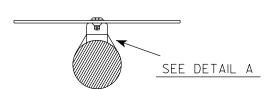
SECTION A-A

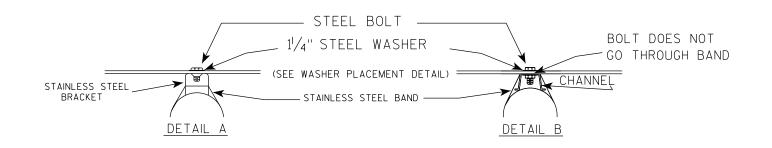


BANDING

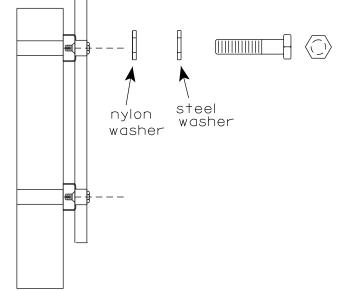


SINGLE SIGN





WASHER PLACEMENT



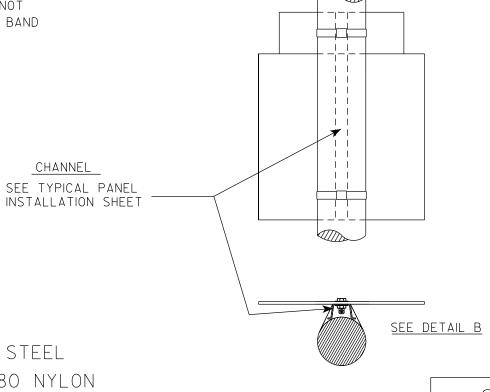
WASHERS (ALL POSTS) -

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

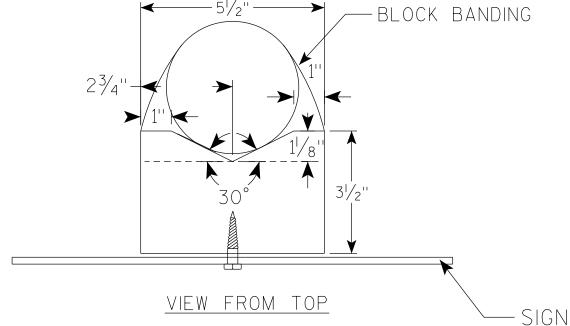
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

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 $3/_{16}$ " 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

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

SHEET NO:

PROJECT NO:

Ε

NOTES

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

C	<u> </u>
	$ \begin{array}{c c} G \\ \hline F \\ \hline B \\ \hline G \\ \hline G \\ \hline \end{array} $
← A — →	1
R11-2B	

SIZE A Areo sq. ft. В С D G н I | J | K 0 0 S 1/2 4 19 3/4 9 3/4 9 1/8 5/8 48 30 | 1 3/8 | 10.0 2M 5/8 48 30 1 3/8 1/2 8 5 19 34 9 34 9 38 | 10.0 3 5/8 1 3/8 1/2 19 3/4 9 3/4 9 1/8 48 30 5 10.0 5/8 19 3/4 9 3/4 9 1/8 4 1 3/8 1/2 48 30 8 5 10.0 5 19 3/4 9 3/4 9 1/8 1 3/8 1/2 5/8 48 30 5 10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

Matthew R Rauch

DATE 4/1/11 PLATE NO. R11-2B.2

SHEET NO:

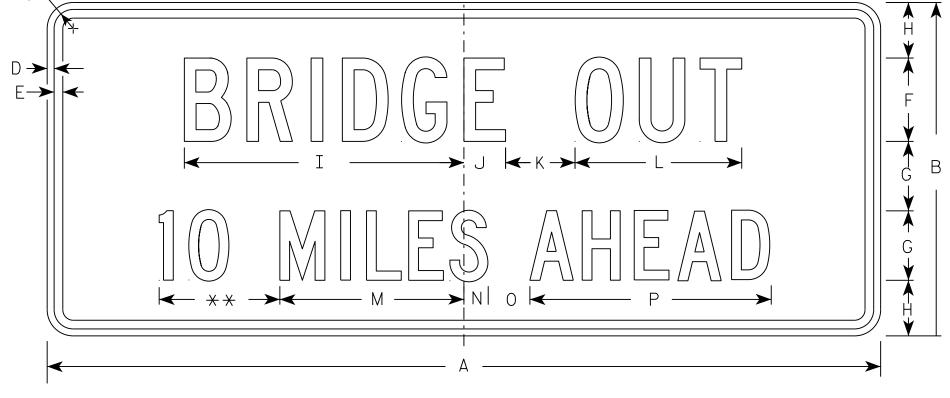
PROJECT NO:



- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3C

** See Note 5

1/4 MILE AND

SIZE	Α	В	С	D	E	F	G	Н	I	٦	K	L	М	N	0	Р	٥	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4		7 1/8									3 . 75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
3																											
4																											
5																											

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

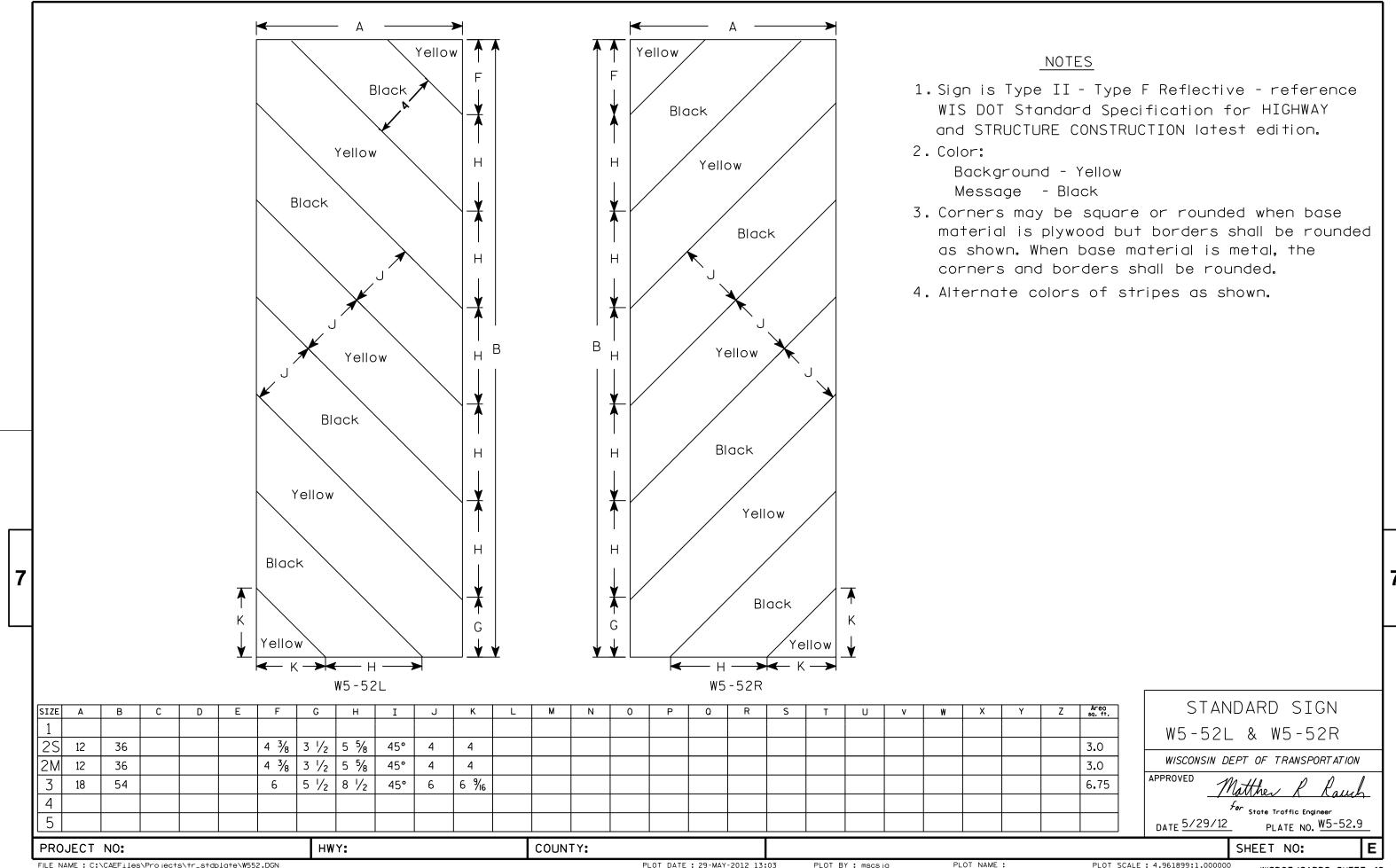
Matthew R Rauch
For State Traffic Engineer

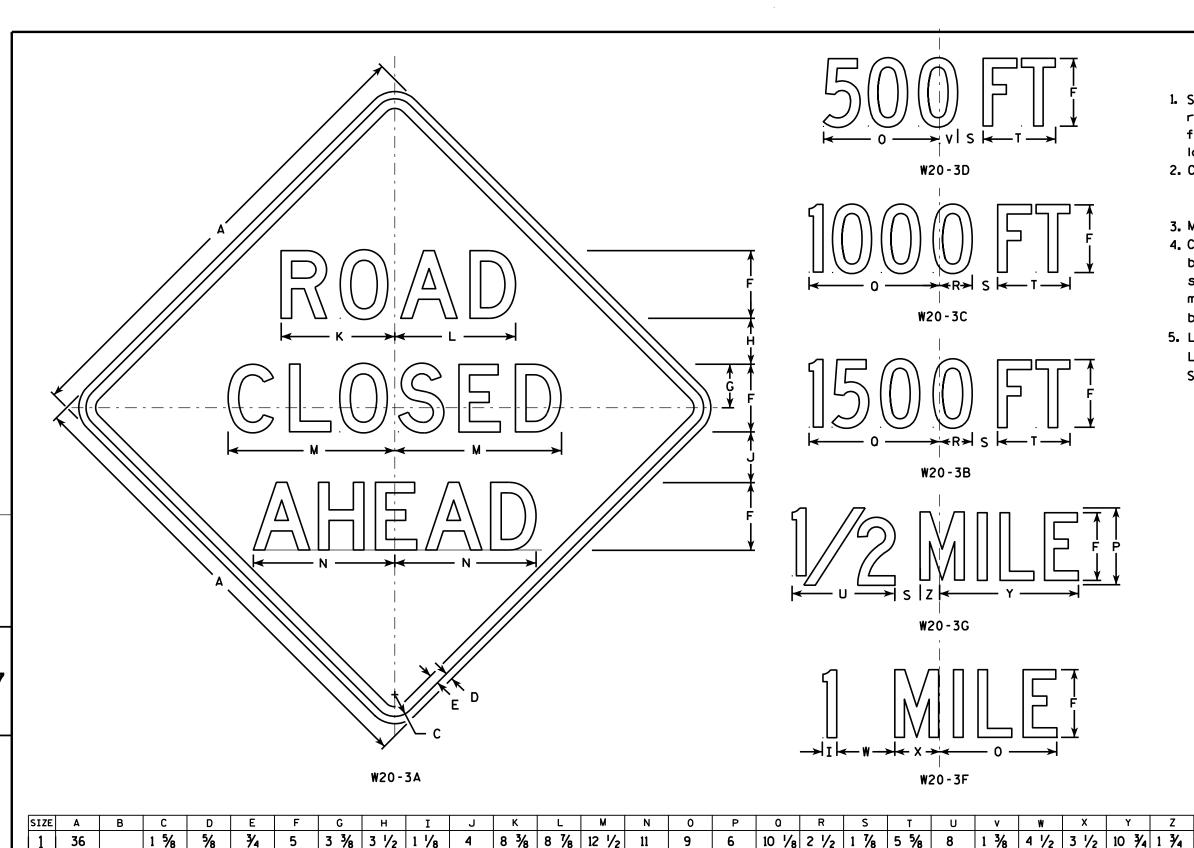
DATE <u>7/28/16</u>

PLATE NO. R11-3C.3

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

PROJECT NO:





1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

| 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

COUNTY:

NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

4 \(\frac{5}{8} \) 14 \(\frac{3}{8} \) 2 \(\frac{3}{8} \) 16.0 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 4 % | 14 % | 2 % | 16.0 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 4 5/8 14 3/8 2 3/8 16.0

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 3/18/11 PLATE NO. W20-3.7

SHEET NO: PLOT NAME : PLOT BY: mscj9h

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN

2 1/4

2M

5

48

48

48

48

PROJECT NO:

3/4

3/4

3/4

3/4

3/4

HWY:

PLOT DATE: 18-MAR-2011 12:08

13 1/2 3 3/8 2 5/8

7 1/2 10 5/8 1 7/8

7 1/2 10 5/8 1 7/8

10 % 1 %

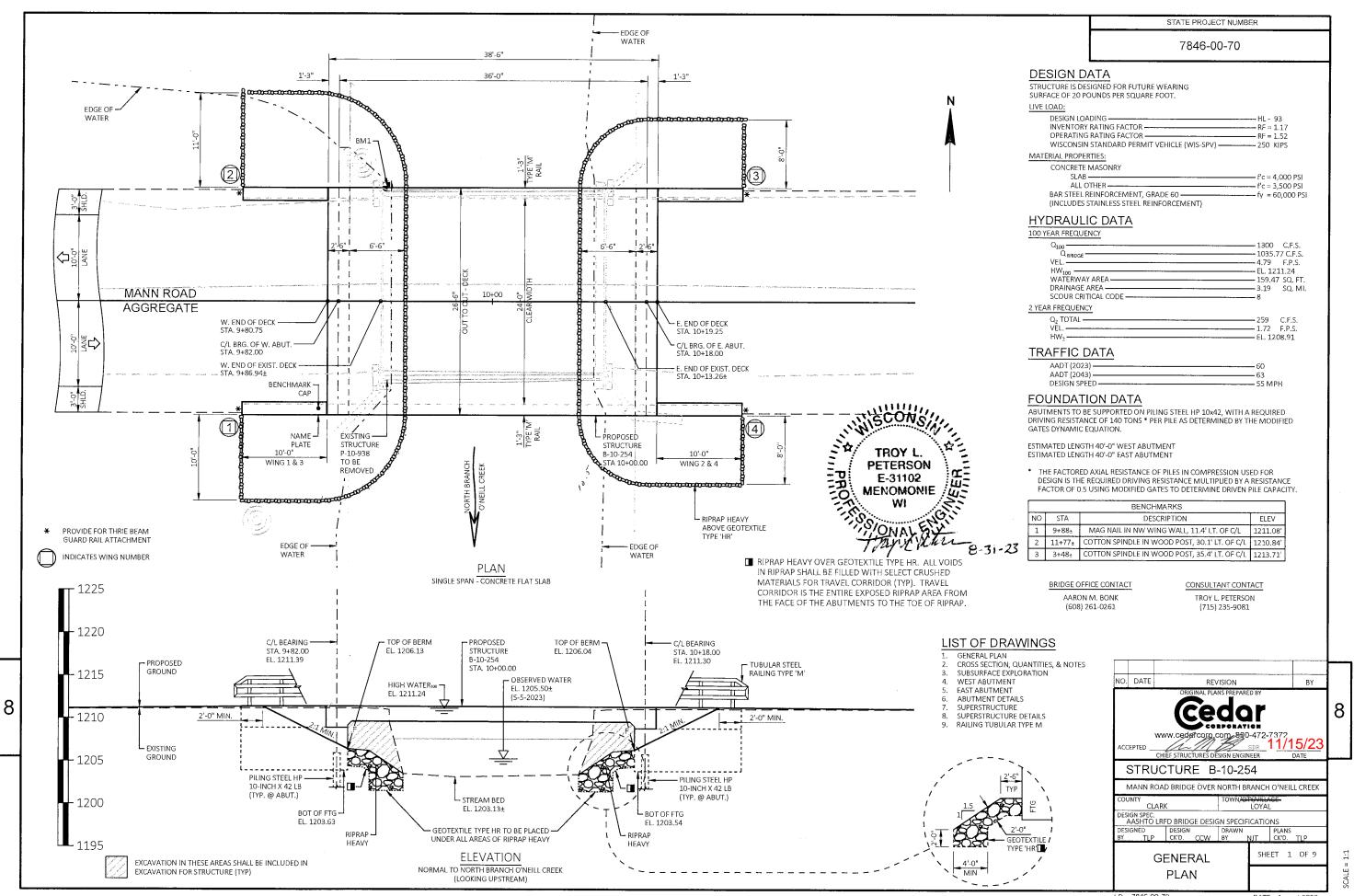
7 1/2

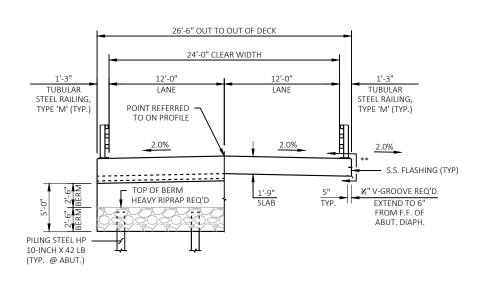
13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

PLOT SCALE: 9.931739:1.000000

WISDOT/CADDS SHEET 42



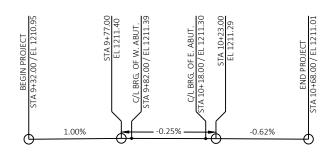


ABUTMENT

IN SPAN

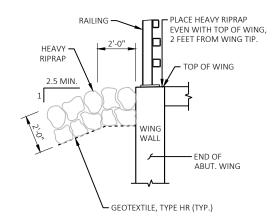
CROSS SECTION THRU STRUCTURE

(LOOKING EAST)

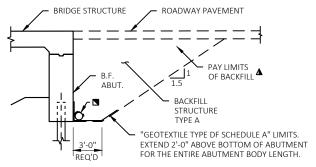


PROPOSED GRADE ON MANN ROAD

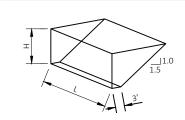
		TOTAL ESTIMATED QUANTI	TIES				
	ITEM NUMBER	BID ITEMS	UNIT	WEST ABUT.	EAST ABUT.	SUPER.	TOTALS
	203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-10-938	EACH	-	-	-	1
	206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-10-254	EACH	-	-	-	1
	210.1500	BACKFILL STRUCTURE TYPE A	TON	115	115	-	230
	502.0100	CONCRETE MASONRY BRIDGES	CY	27.3	27.4	70.3	125
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	=	-	137	137
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1480	1480	-	2960
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1360	1360	12560	15280
	506.0105	STRUCTURAL STEEL CARBON	LB	-	-	480	480
8	513.4061	RAILING TUBULAR TYPE M	LF	Ξ	-	122	122
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8	8	-	16
	550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	160	160	-	320
	606.0300	RIPRAP HEAVY	CY	50	40	-	90
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	80	80	-	160
	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	19	19	-	38
	645.0120	GEOTEXTILE TYPE HR	SY	90	80	-	170
	SPV.0090.01	FLASHING STAINLESS STEEL	LF	-	-	77	77
	SPV.0195.01	SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR	TON	35	30	-	65
		NON-BID ITEMS					
		FILLER	SIZE	-	-	-	½" X ¾"



TYPICAL FILL SECTION AT WING TIPS



STRUCTURE BACKFILL & LIMITS

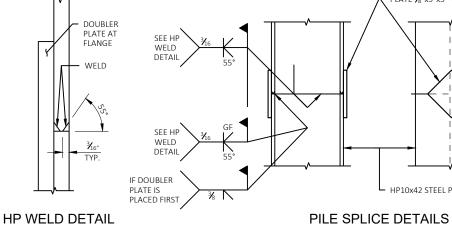


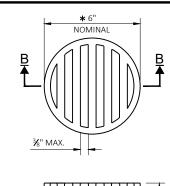
ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

- = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
- = AVERAGE ABUTMENT FILL HEIGHT (FT)
- = EXPANSION FACTOR (1.20 FOR CY BID ITEMS & 1.00 FOR TON BID ITEMS)
- = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)

FLANGE SHOWN WER SIMILAR

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



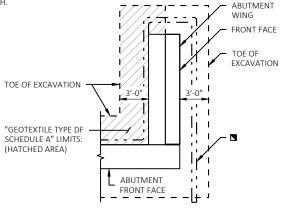


RODENT SHIELD DETAIL

* DIMENSION IS 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 SHIFLD 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.



ABUTMENT PLAN WITH WING

PLATE ¾"x5"x5" - 10" PILE

HP10x42 STEEL PILING

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ALL ELEVATIONS ARE IN FEET.

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

STATE PROJECT NUMBER

7846-00-70

ALL REINFORCING BARS ARE ENGLISH. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE 'HR' TO THE EXTENT SHOWN ON SHEETS 1 AND 2 AND IN THE ABUTMENT DETAILS.

THE EXISTING STRUCTURE (P-10-938) IS A 24.8' LONG BY 21.8' WIDE SINGLE SPAN TIMBER FLAT SLAB

** PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND EDGES OF THE SLAB AND TO THE OUTSIDE 1'-0" OF THE UNDERSIDE OF THE SLAB.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-10-254" SHALL BE THE EXISTING GRADE LINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE IN PLACE BEFORE ABUTMENT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL

BE BACKFILLED WITH BACKFILL STRUCTURE.

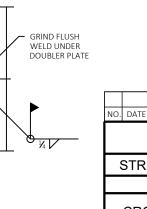
AT ABUTMENTS, CONCRETE POURED UNDERWATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE

STANDARD SPECIFICATIONS. SLAB FALSE WORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD

IS APPROVED BY THE ENGINEER. ▲ BACKFILL PAY LIMITS, BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE

DETERMINED BY THE CONTRACTOR

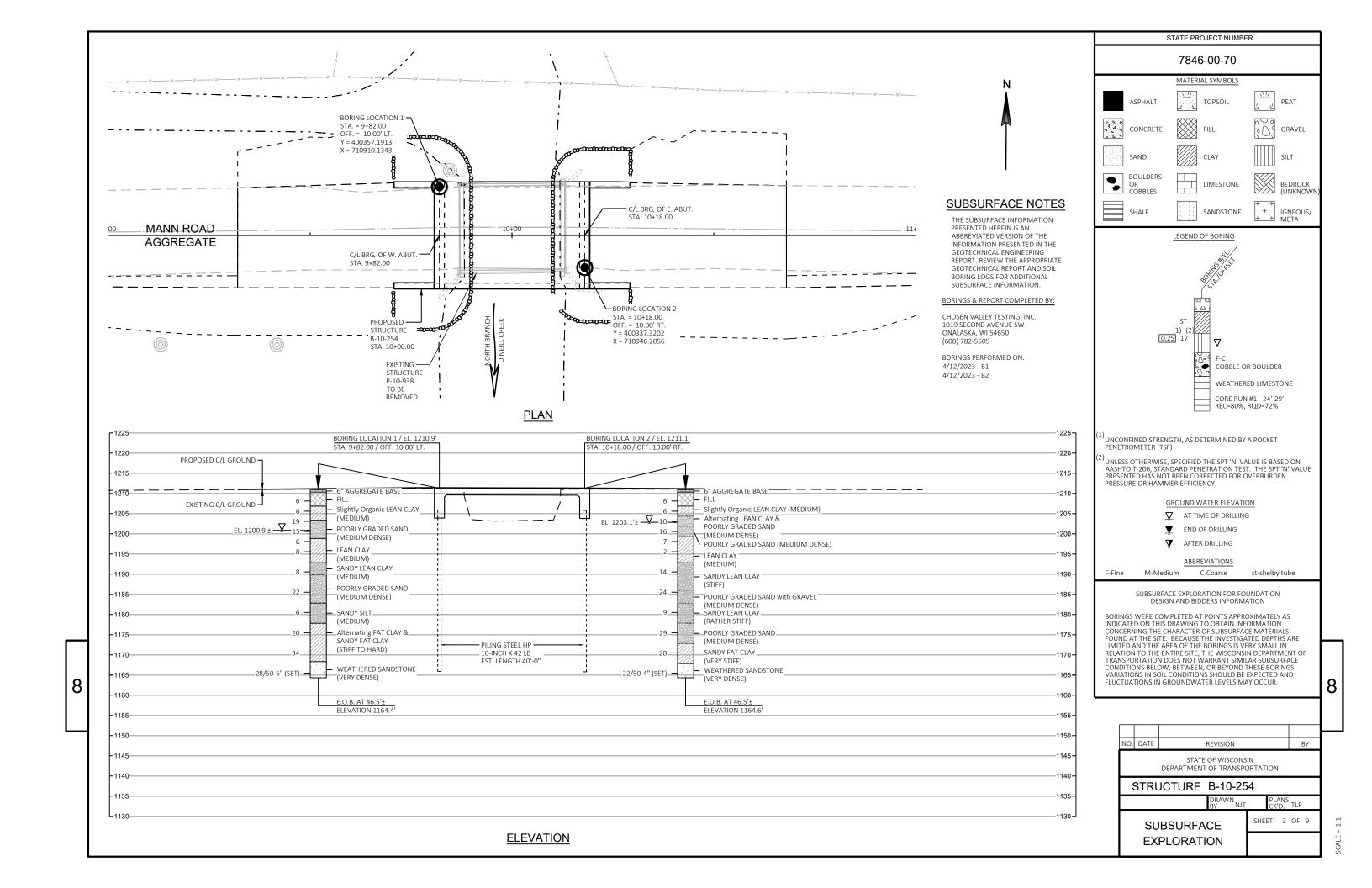
■ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

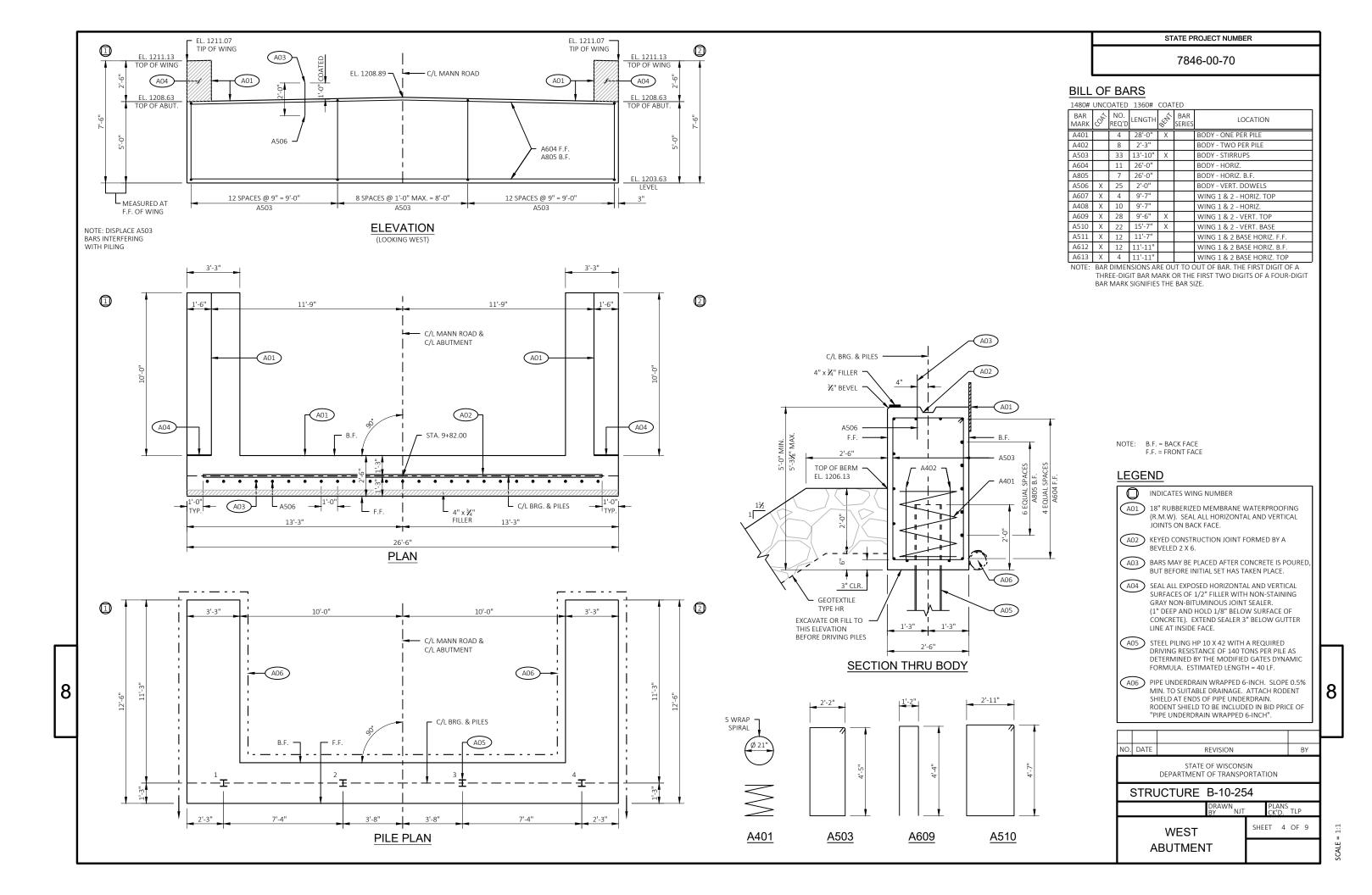


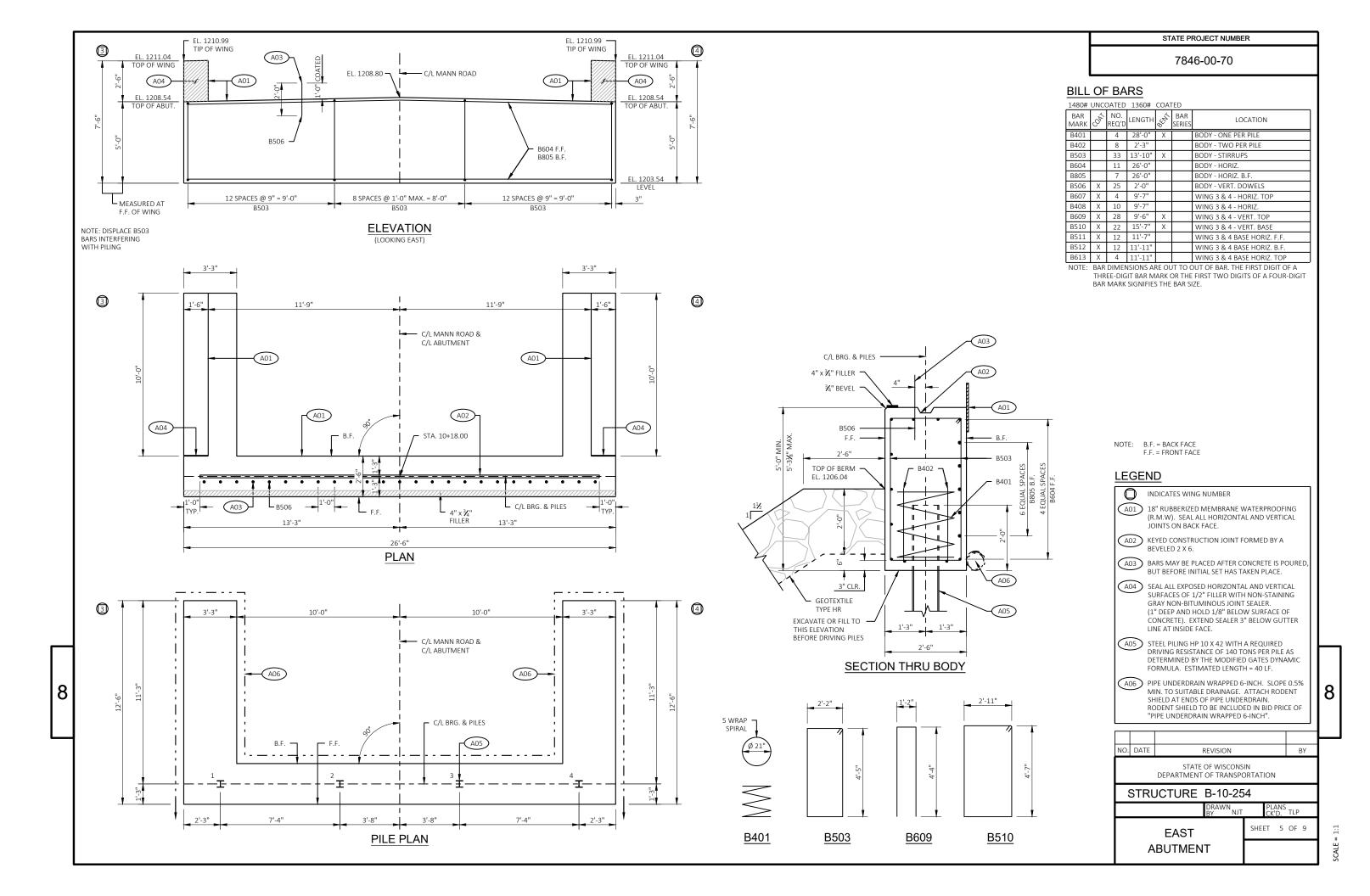
REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-10-254 PLANS CK'D TLP

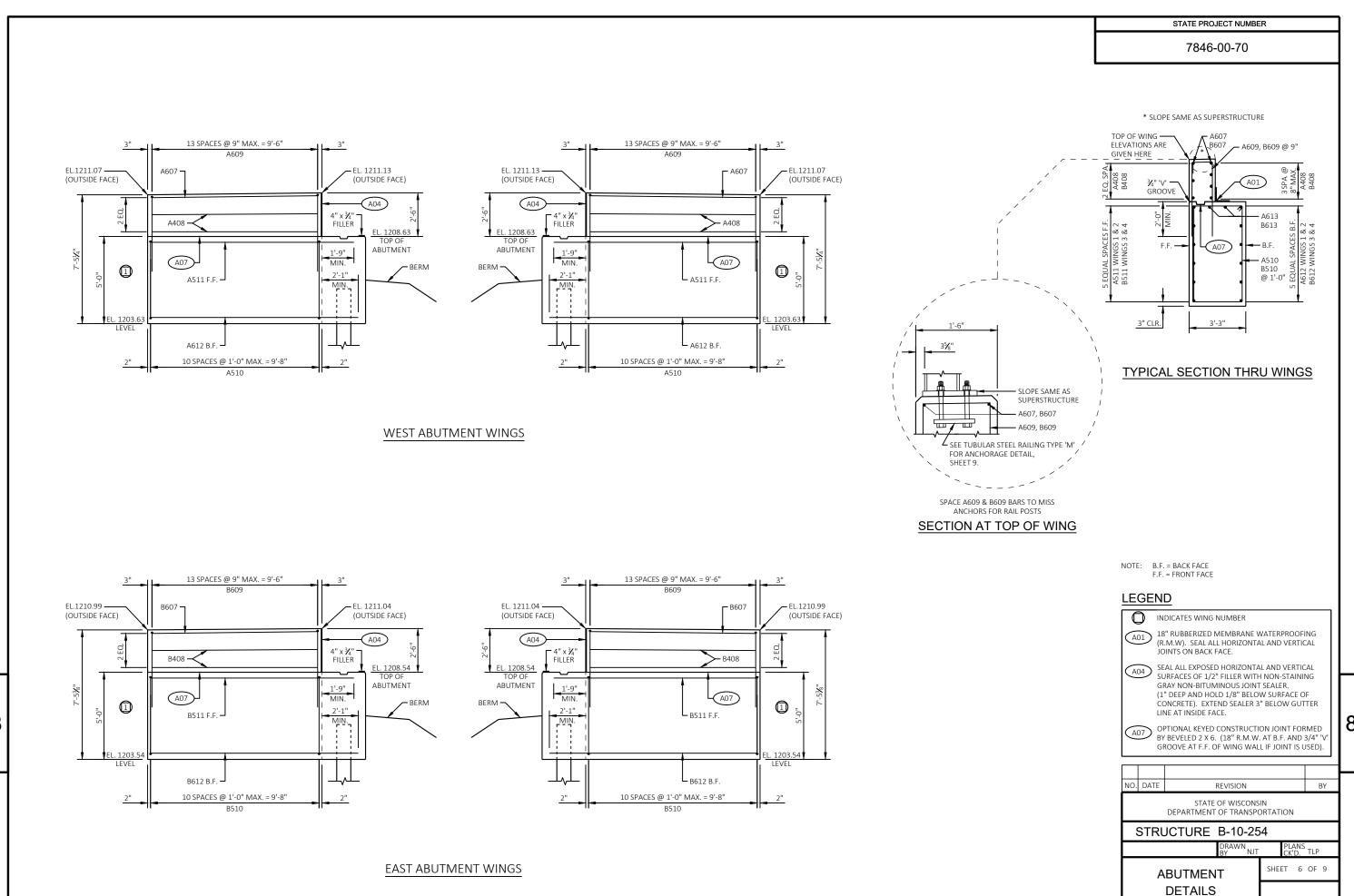
CROSS SECTION, QUANTITIES, & NOTES

SHEET 2 OF 9

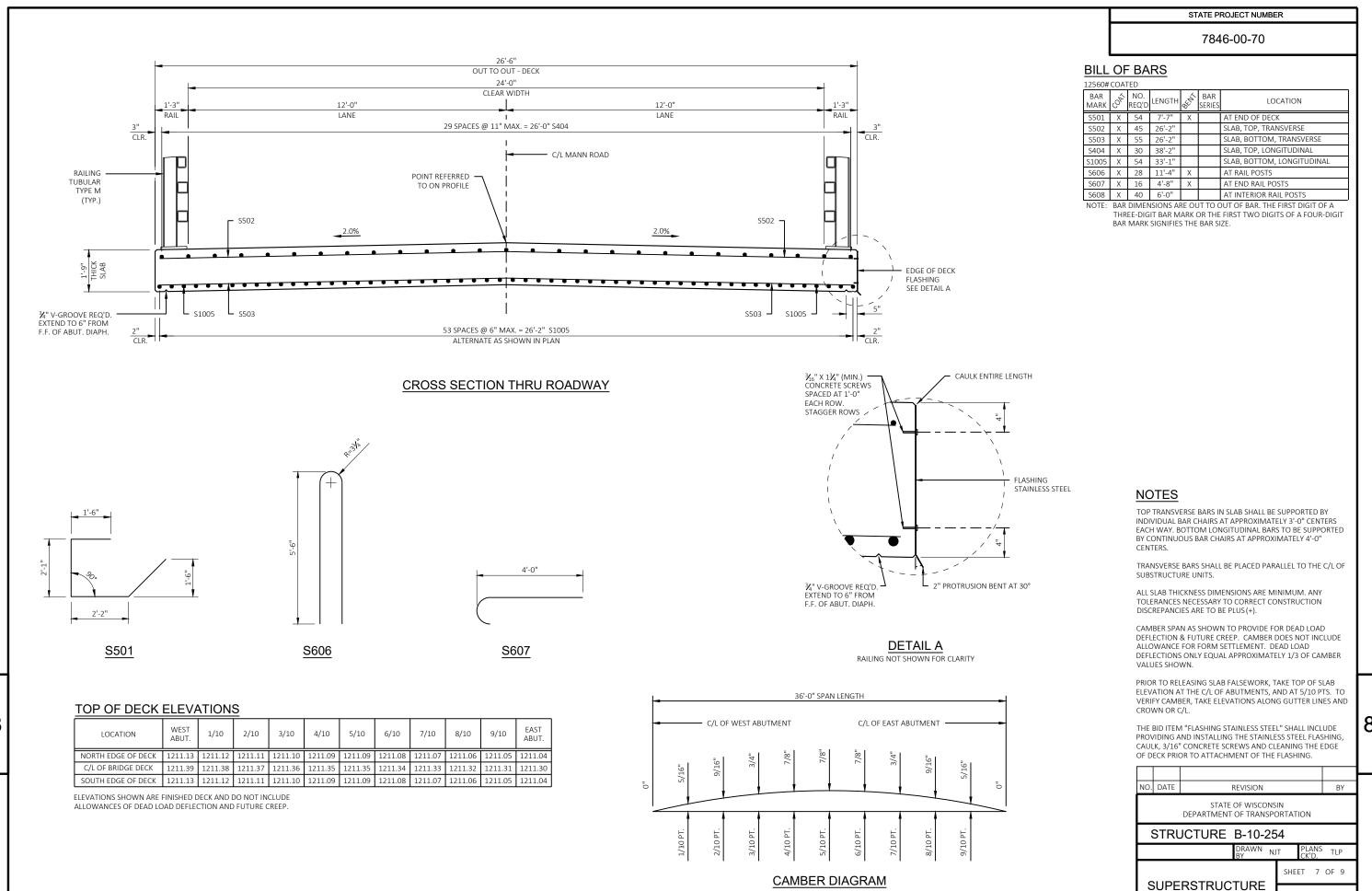




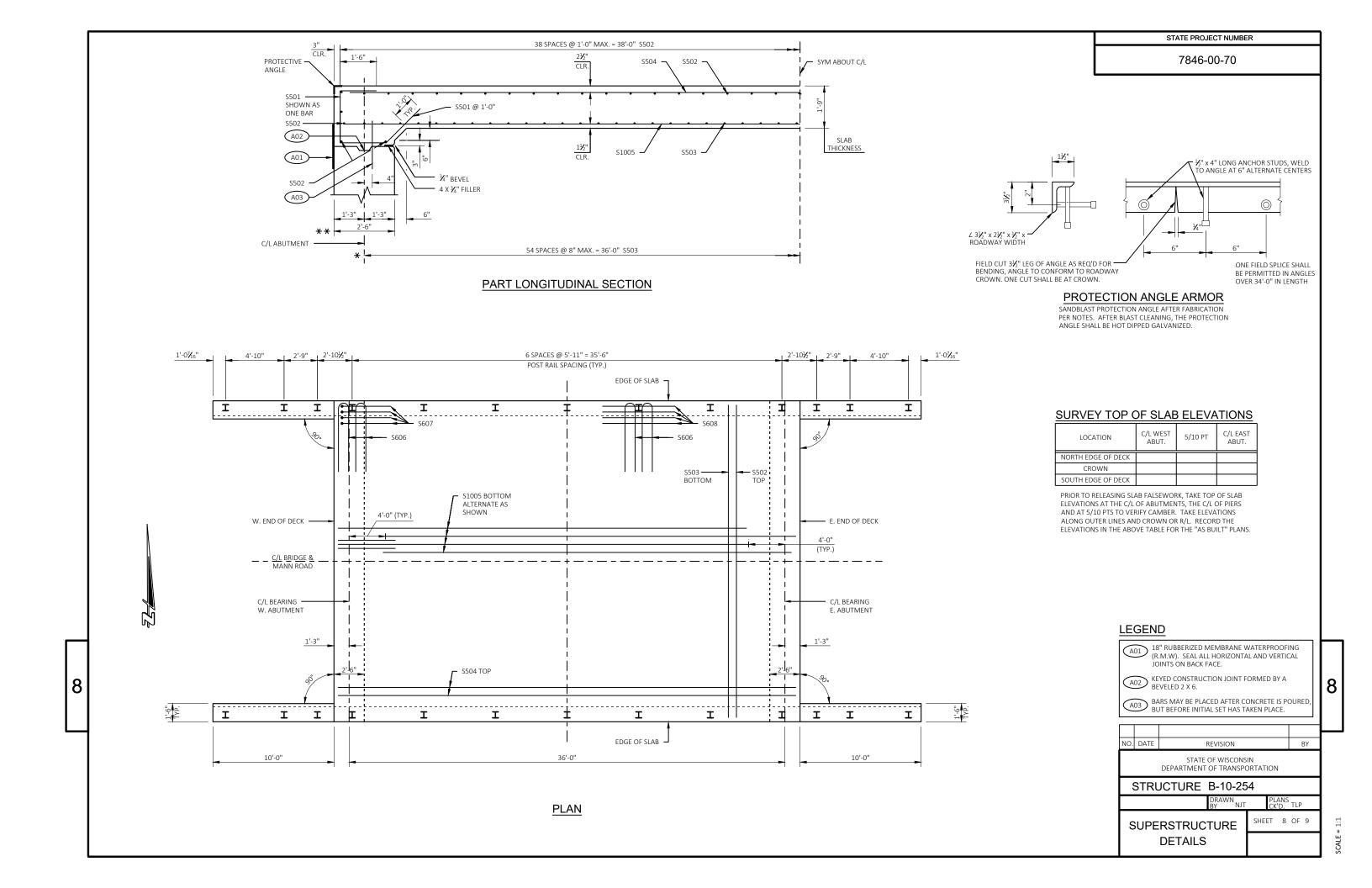


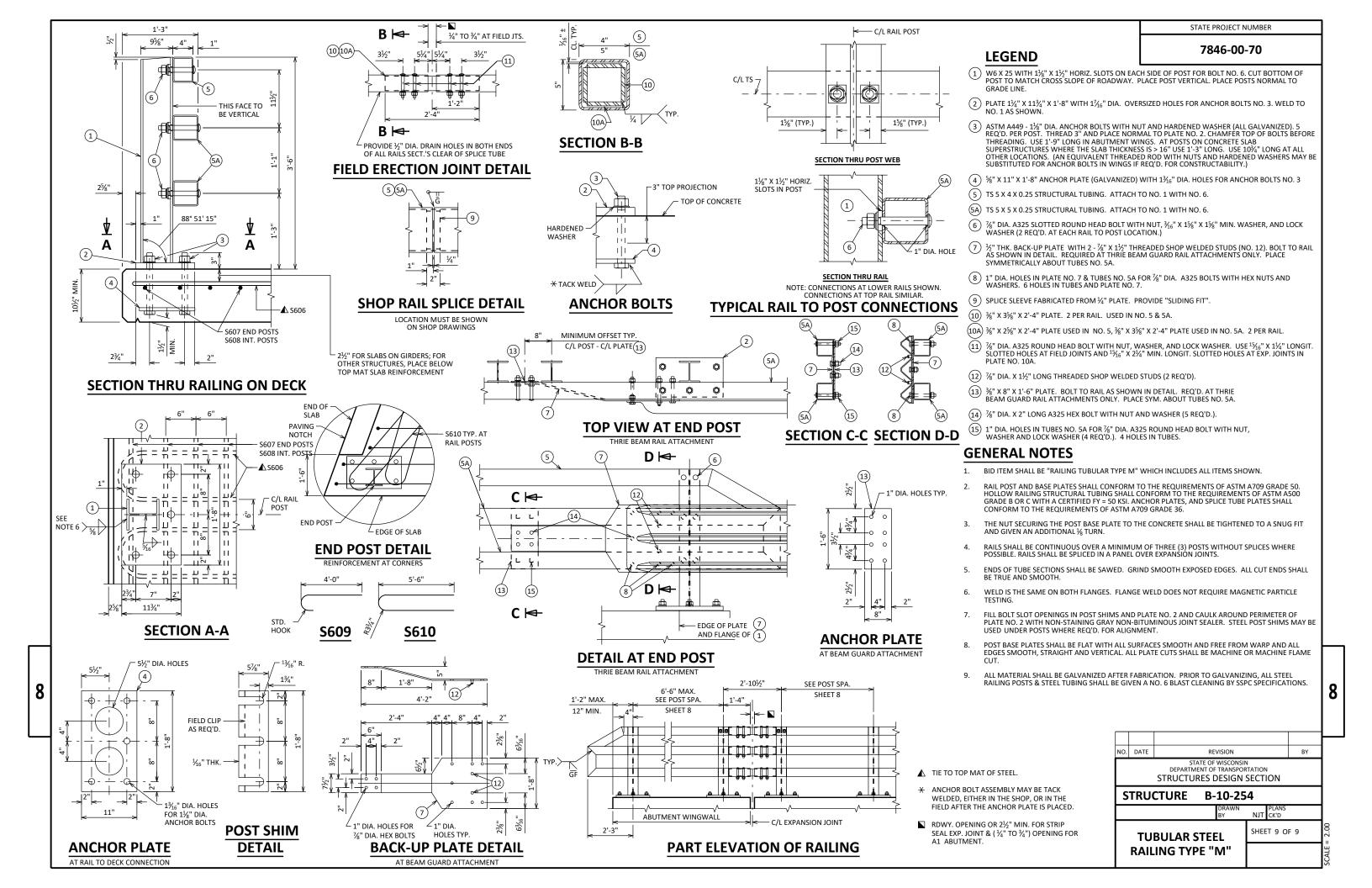


SCALE = 1



SCALE = 1





DIVISION -1 - LCL-MANN	RD

			AREA	۹ (SF)	INCREMENTAL VOL	(CY) (UNADJUSTED)	CUMULATIVE VOL (CY)			
STATION	REAL STATION	DISTANCE	СИТ	FILL	СИТ	FILL	CUT 1.00	EXPANDED FILL	MASS ORDINATE	
					NOTE 1	NOTE 3	NOTE 1		NOTE 8	
08+00	800.00	0.00	4.34	0.00	0	0	0	0	0	
08+50	850.00	50.00	4.47	0.09	8	0	8	0	8	
09+00	900.00	50.00	3.61	0.62	7	1	15	1	14	
09+32	932.01	32.01	61.17	2.70	38	2	53	4	49	
09+50	950.00	17.99	58.37	3.96	40	2	93	6	87	
09+70	970.00	20.00	53.77	4.21	42	3	135	10	125	
09+80.715	980.72	10.72	46.70	8.33	20	2	155	13	143	
09+81	981.00	0.28	0.00	0.00	0	0	155	13	143	
10+19	1019.00	38.00	0.00	0.00	0	0	155	13	143	
10+19.25	1019.25	0.25	50.94	0.81	0	0	155	13	143	
10+30	1030.00	10.75	56.89	7.75	21	2	176	15	161	
10+50	1050.00	20.00	56.58	9.33	42	6	218	23	196	
10+68	1068.00	18.00	59.83	6.29	39	5	257	29	228	
11+00	1100.00	32.00	3.57	0.34	38	4	295	34	261	
11+50	1150.00	50.00	3.13	0.00	6	0	301	34	267	
12+00	1199.99	49.99	2.62	1.23	5	1	306	35	271	

28

1 - CUT CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL 3 - FILL DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME 8 - MASS ORDINATE (EXPANDED FILL - CUT)

Total

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT
DIVISION 1 Mann Road	8+00-12+00	Mann Road	306	306	28	35	271			
DIVISION 1 SUBTOTAL			306	306	28	35	271			
GRAND TOTAL			306	306	28	35	271	0	0	
	TOTAL CO	OMMON EXC	306			•	•			

NOTES:

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- 5) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (13) EXPANDED FILL FACTOR = 1.25

Notes:

- DEPENDING ON SELECTIONS:
- EXPANDED FILL = (UNEXPANDED FILL) * FILL FACTOR
- (14) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

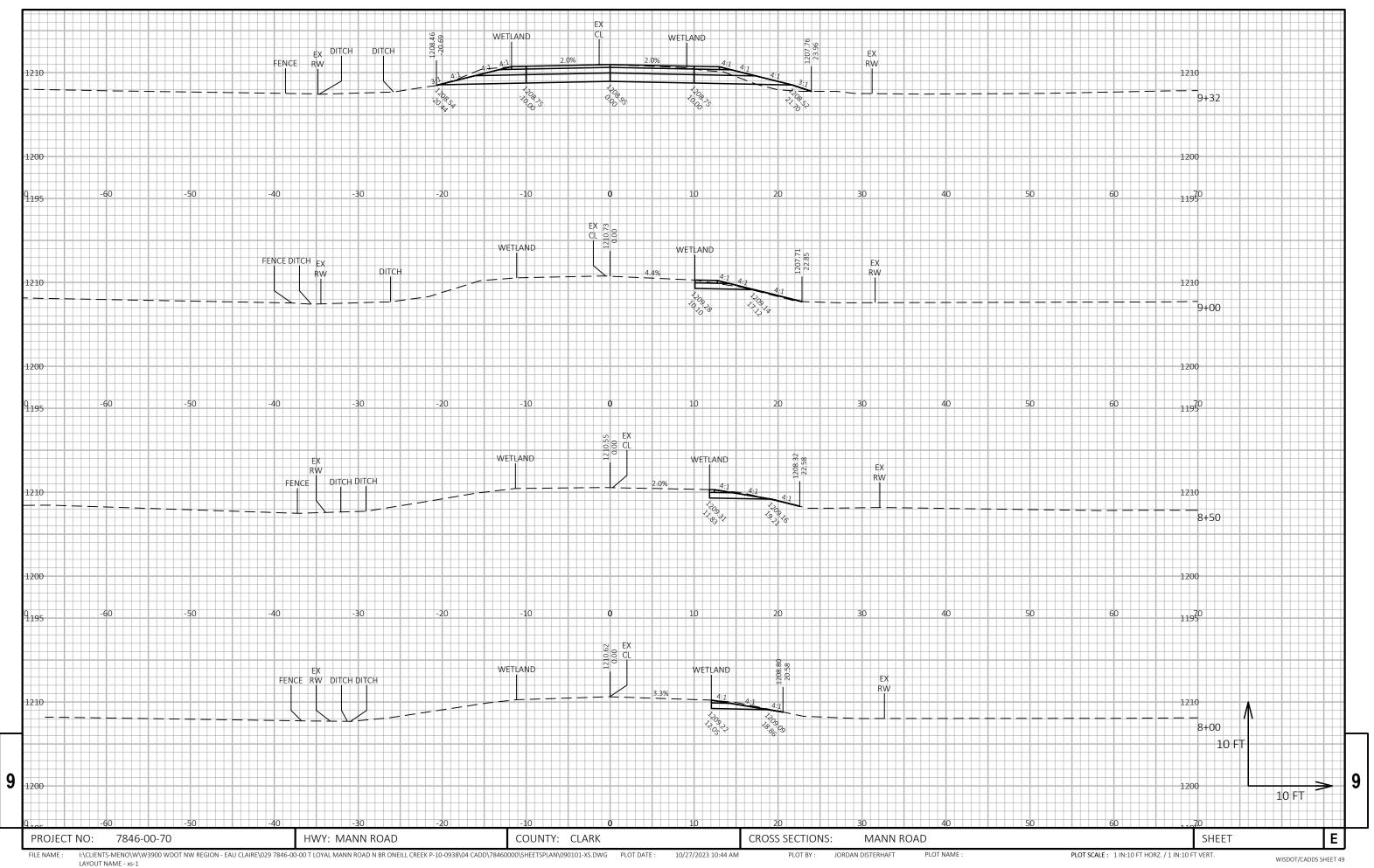
PLOT BY: NICK THOMPSON

PLOT NAME :

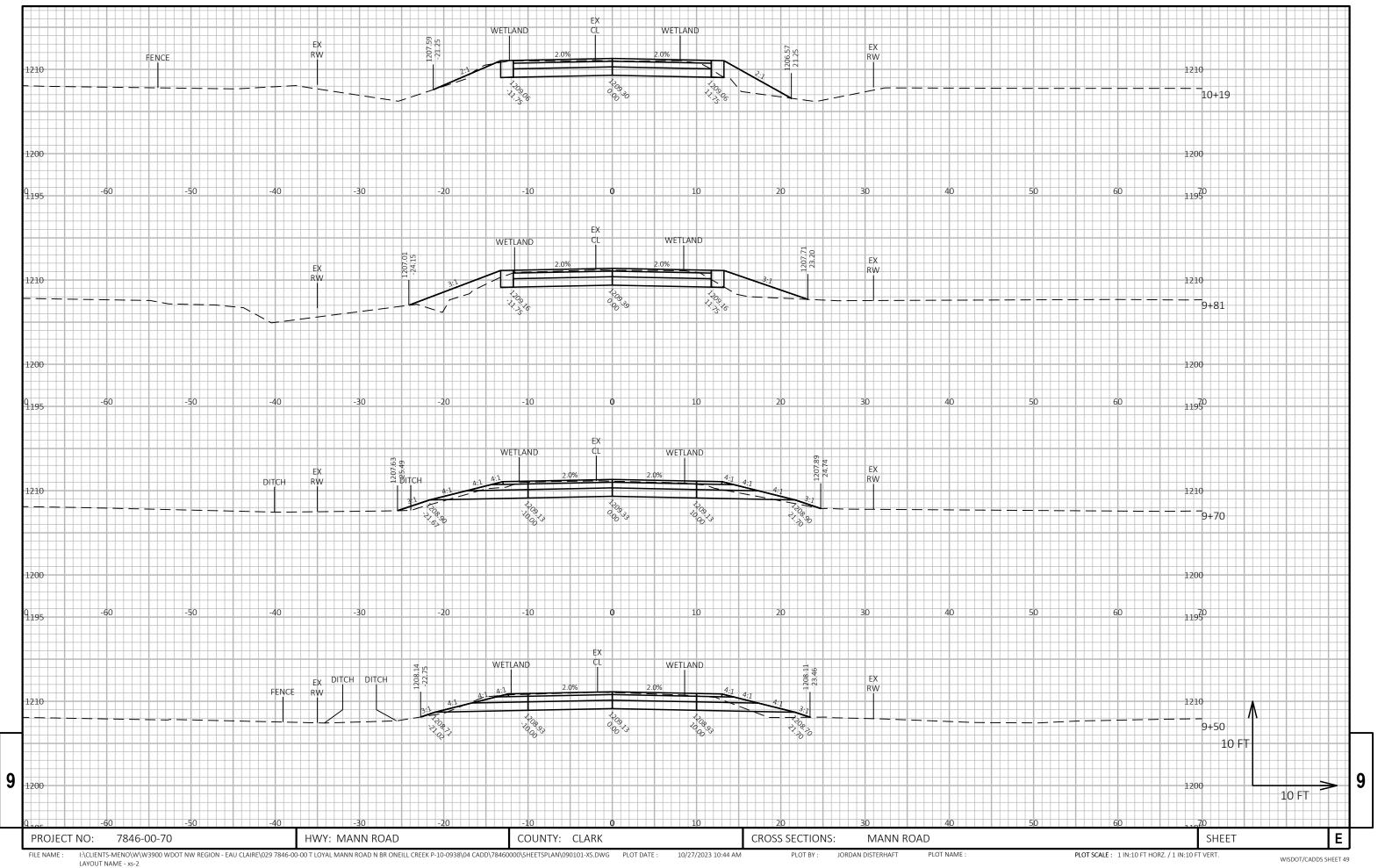
PLOT SCALE :

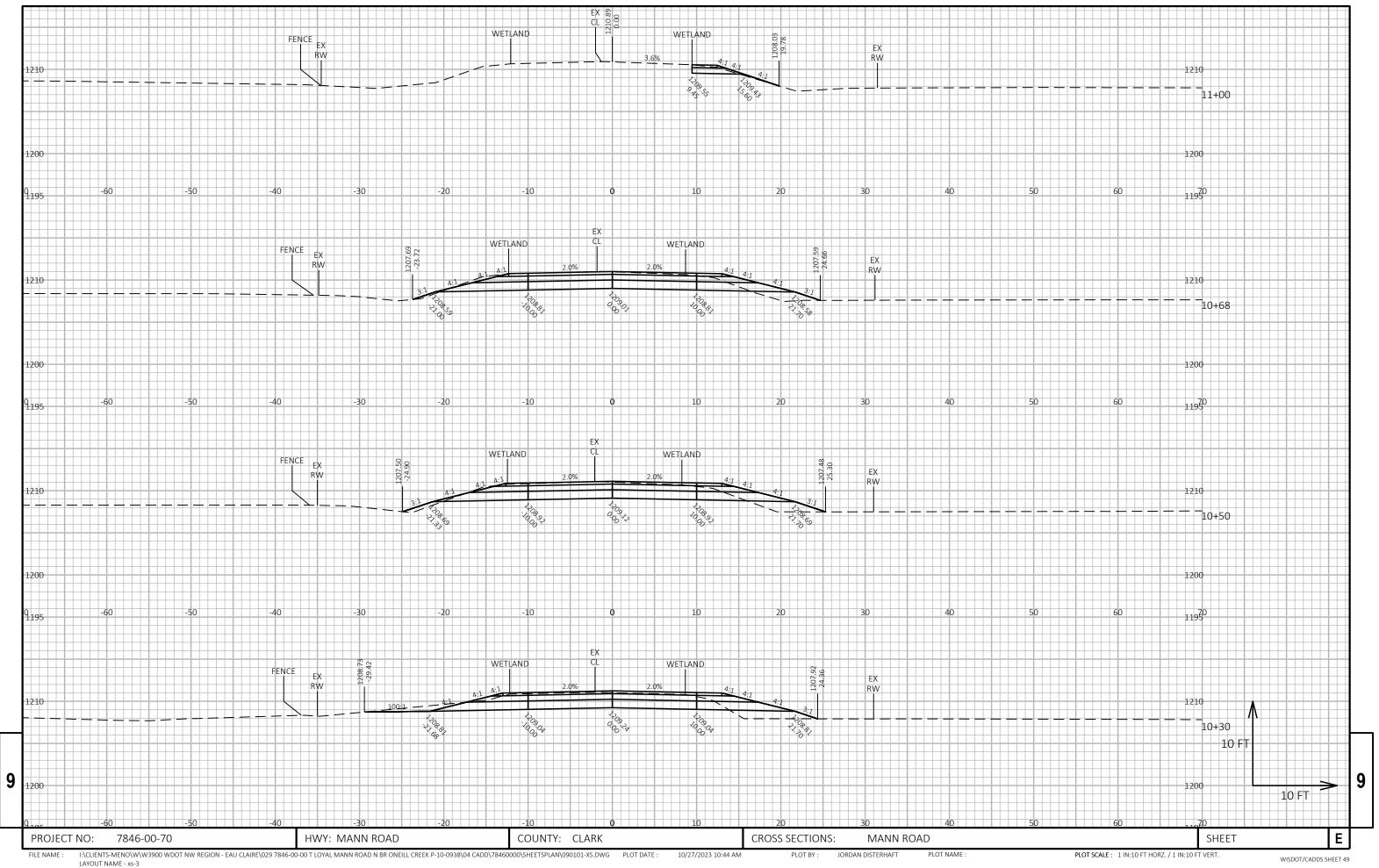
(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

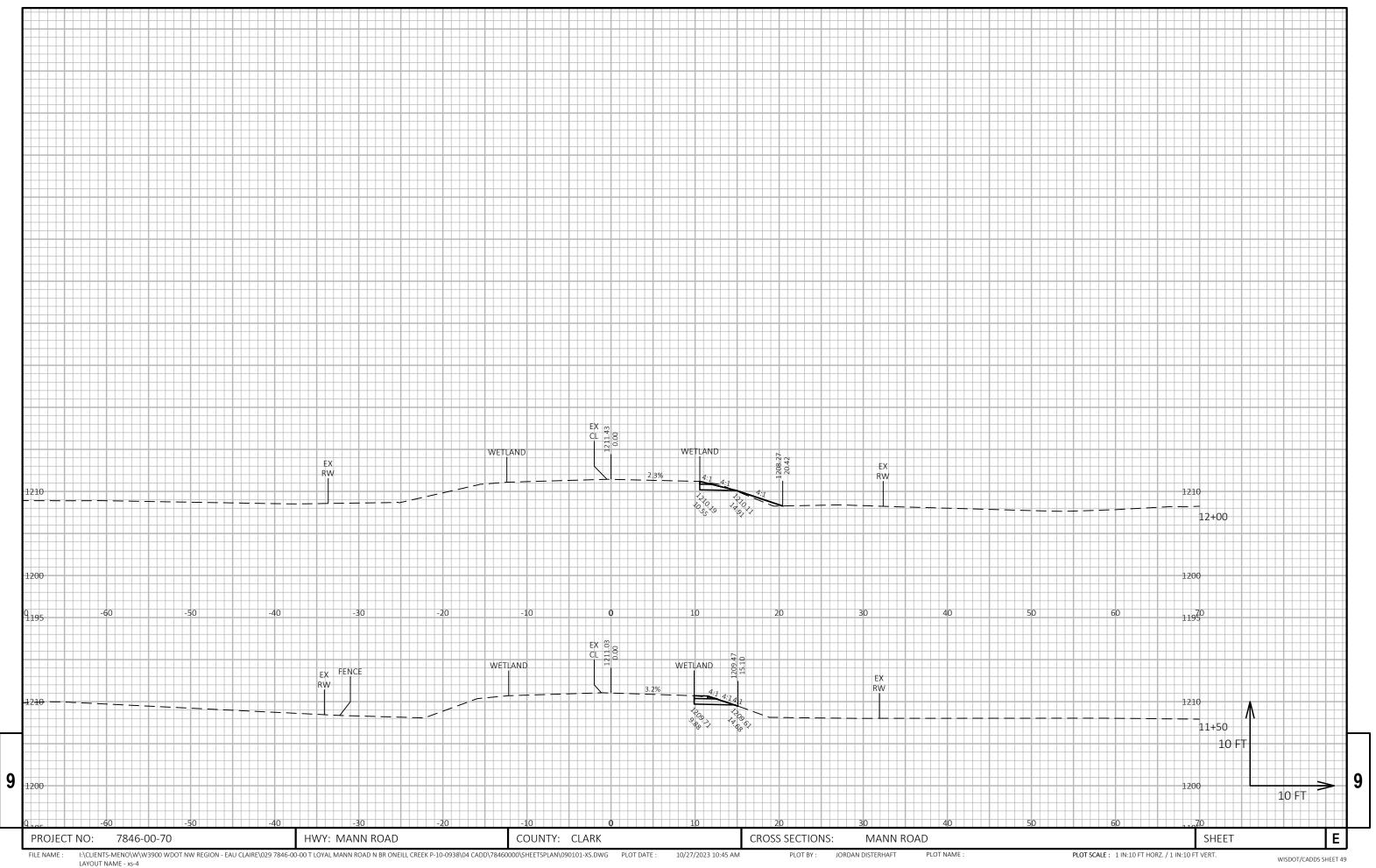
Ε PROJECT NO: 7846-00-70 HWY: MANN ROAD COUNTY: CLARK EARTHWORK DATA SHEET I:\CLIENTS-MENO\W\W3900 WDOT NW REGION - EAU CLAIRE\029 7846-00-00 T LOYAL MANN ROAD N BR ONEILL CREEK P-10-0938\04 CADD\78460000\SHEETSPLAN\090101-EW.DWG PLOT DATE : 3/31/2023 1:08 PM LAYOUT NAME - 01



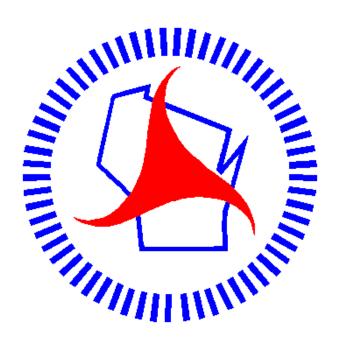
WISDOT/CADDS SHEET 49







LAYOUT NAME - xs-4



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov