Section No. Section No

Section No.

Section No

TOTAL SHEETS = 44

Estimate of Quantities

Right of Way Plat

Plan and Profile

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

WOODED OR SHRUB AREA

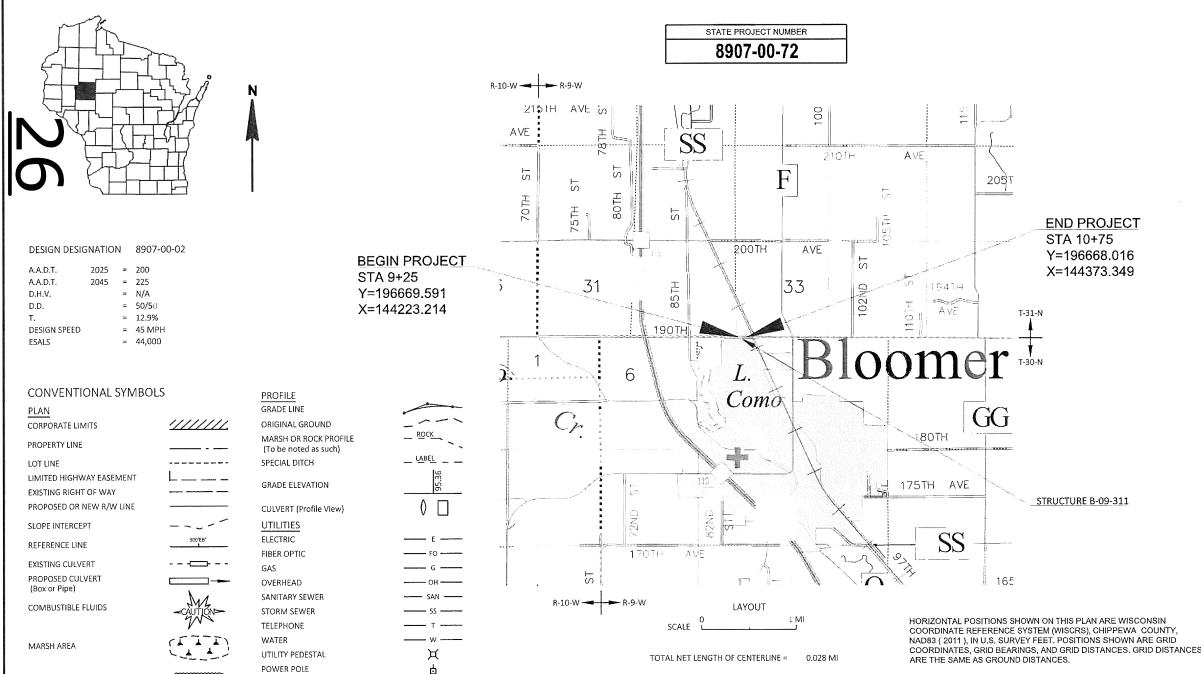
APRIL 2025 STATE OF WISCONSIN ORDER OF SHEETS DEPARTMENT OF TRANSPORTATION Section No Typical Sections and Details

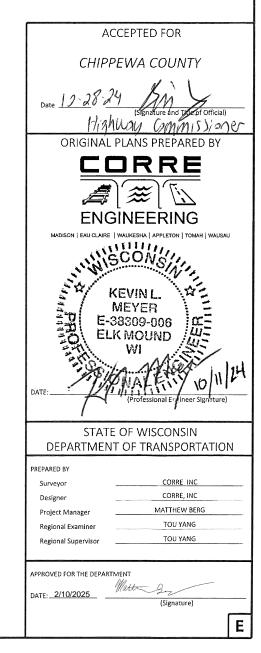
PLAN OF PROPOSED IMPROVEMENT

T BLOOMER, 190TH AVENUE

BR DUNCAN CREEK BRIDGE B-09-0311

LOC STR **CHIPPEWA COUNTY**





FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2025432

STATE PROJECT

8907-00-72

TELEPHONE POLE

ELEVATIONS ARE BASED ON GEOID 18

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

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS, OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

D.O.T. BRIDGE BENCHMARK MONUMENT TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.

4-INCH ASPHALTIC SURFACE SHALL CONSIST OF A 2.25-INCH LOWER LIFT AND A 1.75-INCH UPPER LIFT.

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

RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE, SUBBASE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER. MAINTAIN EROSION CONTROL MEASURES UNTIL SUCH A TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

BEARINGS SHOWN ON THE PLAN ARE GROUND BEARINGS TO THE NEAREST SECOND.

DO NOT DRIVE OR STORE EQUIPMENT, OR STORE CONSTRUCTION MATERIALS IN ENVIRONMENTALLY SENSITIVE AREAS, WETLANDS OR WATERWAYS.

WISCONSIN DNR LIAISON

LEAH NICOL WEST CENTRAL REGION 1300 WEST CLAIREMONT AVE FAU CLAIRE WI 54701 PHONE: (715) 934-9014

CINC

COMMUNICATION

105 GARFIELD AVE

EAU CLAIRE, WI 54701

PHONE: (715) 836-5286

EMAIL: BAUERDP@UWEC.EDU

DAREN BAUER

EMAIL: LEAH.NICOL@WISCONSIN.GOV

DESIGN PROJECT MANAGER

KEVIN MEYER CORRE. INC. 1802 WARDEN STREET EAU CLAIRE. WI 54703 PHONE: (715) 299-1894

EMAIL: KMEYER@CORREINC.COM

COUNTY HIGHWAY CONTACT

FRED ANDERSON CHIPPEWA COUNTY 801 EAST GRAND AVE CHIPPEWA FALLS, WI 54729 PHONE: (715) 738-2610

EMAIL: FANDERSON@CO.CHIPPEWA.WI.US

XCEL ENERGY - TRANSMISSION

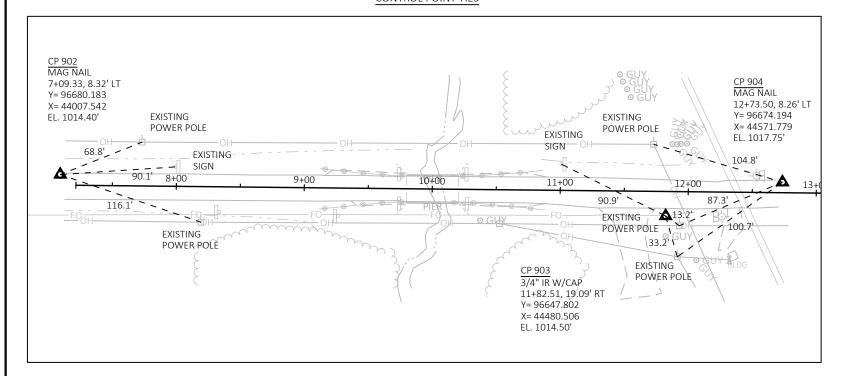
UTILITIES CONTACTS

XCEL ENERGY - DISTRIBUTION ELECTRIC AMY BALFOUR 320 HELLER RD MENOMONIE, WI 54751 PHONE: (715) 236-5722 EMAIL: AMY.D.BALFOUR@XCELENERGY.COM

ELECTRIC MITCHELL DIENGER 414 NICOLLET MALL MINNEAPOLIS, MN 55401 PHONE: (612) 621-3109 EMAIL: MITCHELL.A.DIENGER@XCELENERGY.COM

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

CONTROL POINT TIES



RUNOFF COEFFICIENT TABLE

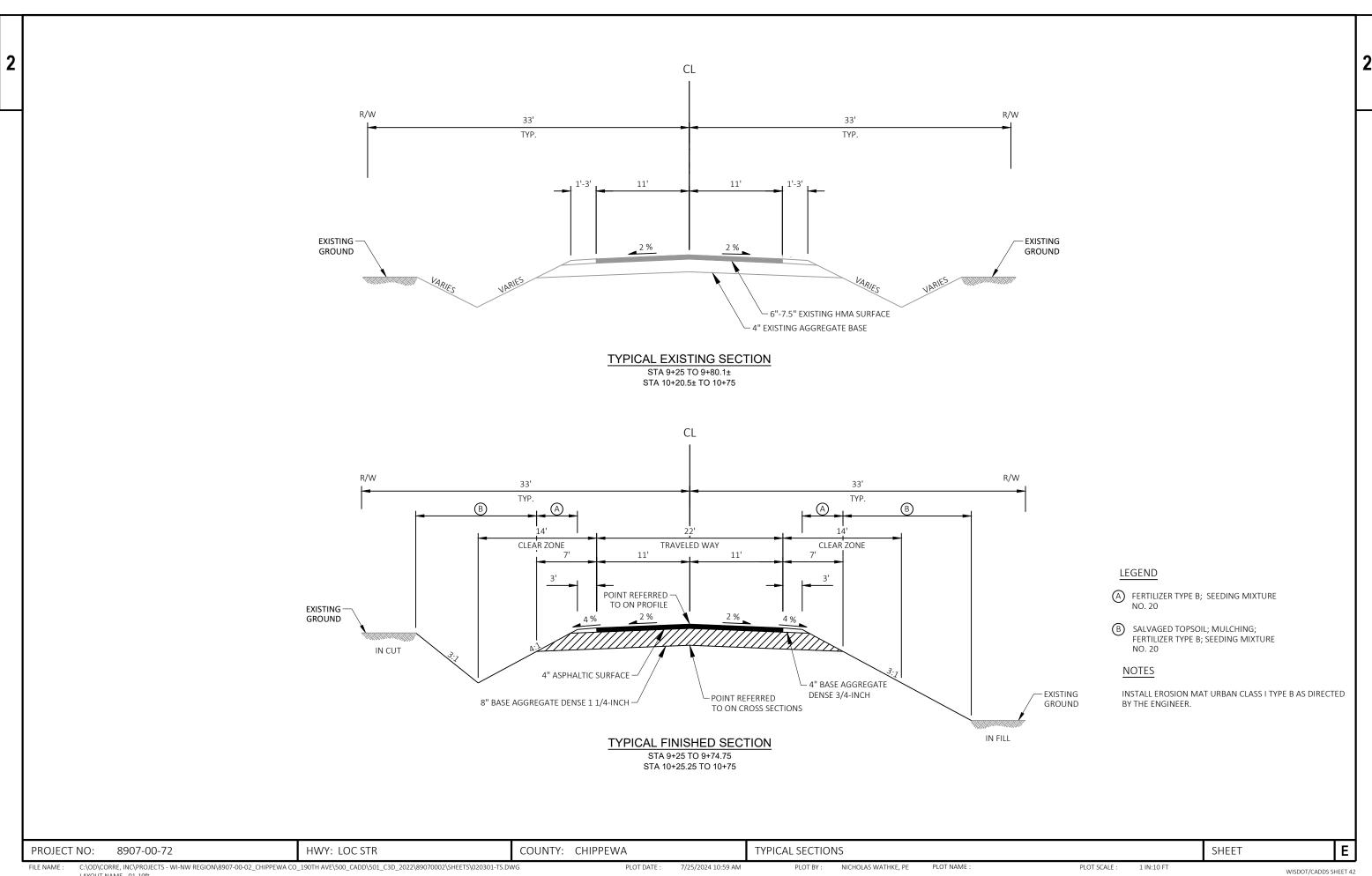
		HYDROLOGIC SOIL GROUP											
		Α			В			С		D			
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS:	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38	
NOW CROPS.	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30	
WIEDIAN STRIFTORF.	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40	
SIDE SLOPETURF:			.25			.27			.28			.30	
SIDE SLOPETORF:			.32			.34			.36			.38	
PAVEMENT:													
ASPHALT:						.70 -	95						
CONCRETE:						.80	95						
BRICK:						.70 -	80						
DRIVES, WALKS:						.75 -	85						
ROOFS:						.75 -	95						
GRAVEL ROADS, SHOULDERS:						.40 -	60						

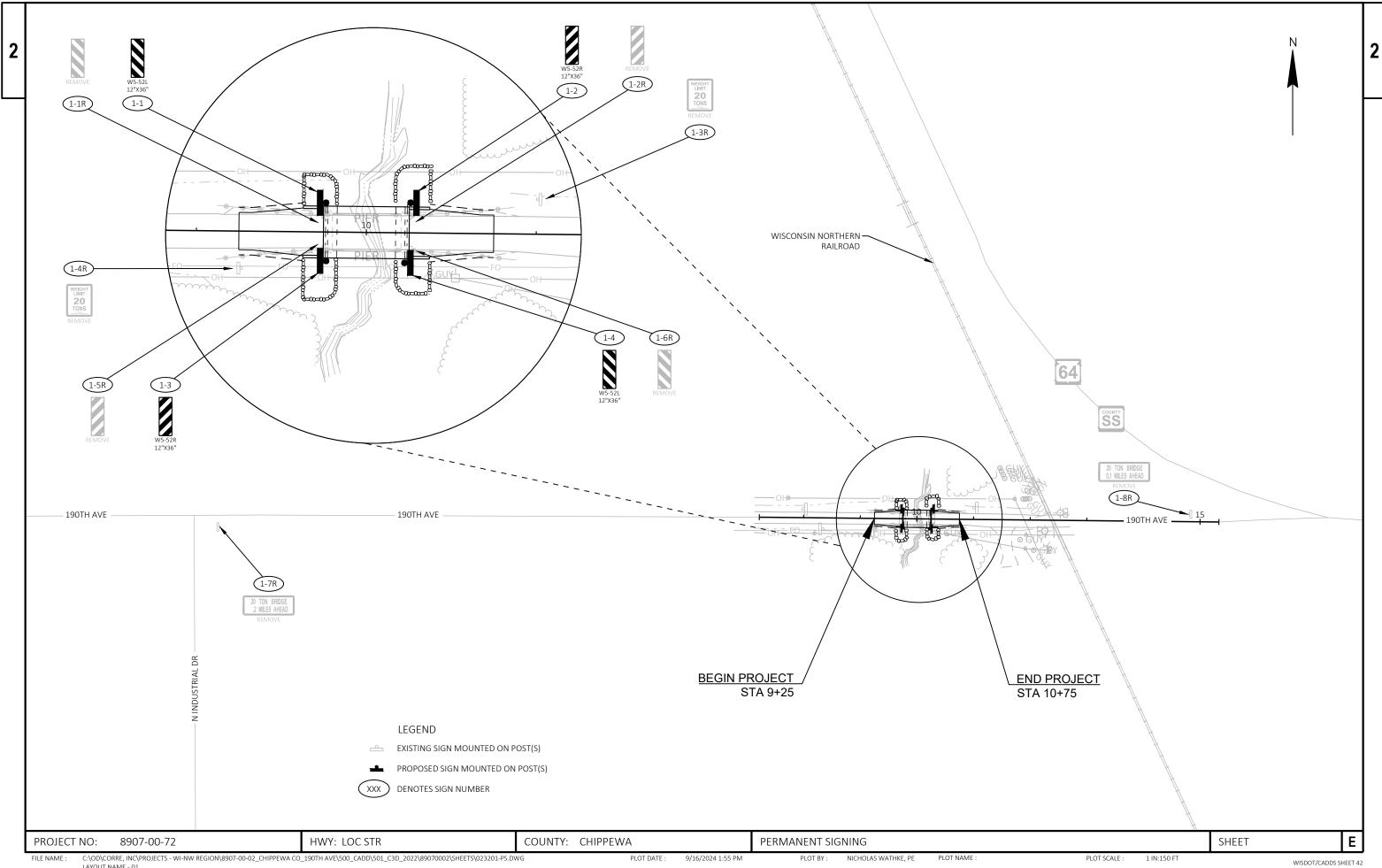
TOTAL PROJECT AREA = 0.31 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.10 ACRES

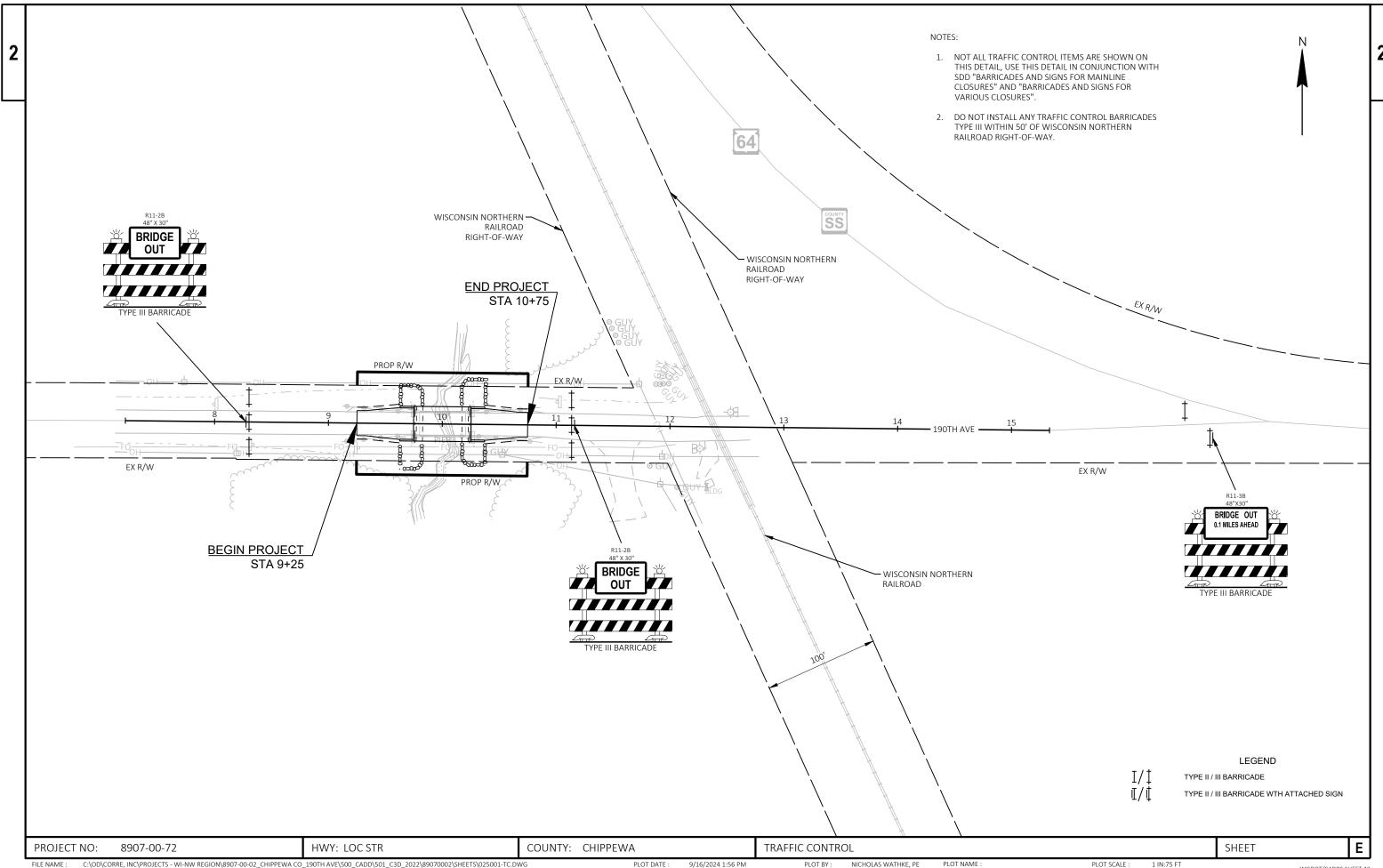
PROJECT NO: 8907-00-72 HWY: LOC STR COUNTY: CHIPPEWA **GENERAL NOTES** SHEET

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C:\OD\CORRE, INC\PROJECTS - WI-NW REGION\8907-00-02_CHIPPEWA CO_190TH AVE\500_CADD\501_C3D_2022\89070002\SHEETS\023201-PS.DWG LAYOUT NAME - 01



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890	7-00	-72
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					0907-00-72
Line	Item	Item Description	Unit	Total	Qty
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-9-124	EACH	1.000	1.000
0004	204.0165	Removing Guardrail	LF	272.000	272.000
0006	205.0100	Excavation Common	CY	64.000	64.000
8000	206.1001	Excavation for Structures Bridges (structure) B-9-311	EACH	1.000	1.000
0010	208.0100	Borrow	CY	107.000	107.000
0012	210.1500	Backfill Structure Type A	TON	270.000	270.000
0014	213.0100	Finishing Roadway (project) 01. 8907-00-72	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	12.000	12.000
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	160.000	160.000
0020	455.0605	Tack Coat	GAL	20.000	20.000
0022	465.0105	Asphaltic Surface	TON	70.000	70.000
0024	502.0100	Concrete Masonry Bridges	CY	194.000	194.000
0026	502.3200	Protective Surface Treatment	SY	228.000	228.000
0028	505.0400	Bar Steel Reinforcement HS Structures	LB	3,760.000	3,760.000
0030	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	25,080.000	25,080.000
0032	513.4061	Railing Tubular Type M	LF	154.000	154.000
0034	516.0500	Rubberized Membrane Waterproofing	SY	20.000	20.000
0036	550.2126	Piling CIP Concrete 12 3/4 X 0.375-Inch	LF	790.000	790.000
0038	606.0300	Riprap Heavy	CY	200.000	200.000
0040	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	200.000	200.000
0042	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8907-00-72	EACH	1.000	1.000
0042	619.1000	Mobilization	EACH	1.000	1.000
0044	624.0100	Water	MGAL	4.000	4.000
0048	625.0500	Salvaged Topsoil	SY	235.000	235.000
0050	627.0200	Mulching	SY	235.000	235.000
0052	628.1504	Silt Fence	LF	278.000	278.000
0054	628.1520	Silt Fence Maintenance	LF	278.000	278.000
0056	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0058	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0060	628.2008	Erosion Mat Urban Class I Type B	SY	20.000	20.000
0060	628.6005	Turbidity Barriers	SY	80.000	80.000
		Fertilizer Type B		0.200	0.200
0064 0066	629.0210 630.0120	Seeding Mixture No. 20	CWT LB	14.000	14.000
		-			14.000
0068	630.0200	Seeding Temporary Seed Water	LB MGAL	14.000	
0070 0072	630.0500 634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	8.000 4.000	8.000 4.000
0072					
	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0076	638.2602	Removing Signs Type II	EACH	8.000	8.000
0078	638.3000	Removing Small Sign Supports	EACH	8.000	8.000
0800	642.5001	Field Office Type B	EACH	1.000	1.000
0082	643.0420	Traffic Control Barricades Type III	DAY	1,440.000	1,440.000
0084	643.0705	Traffic Control Warning Lights Type A	DAY	2,240.000	2,240.000
0086	643.0900	Traffic Control Signs	DAY	1,120.000	1,120.000
8800	643.5000	Traffic Control	EACH	1.000	1.000
0090	645.0111	Geotextile Type DF Schedule A	SY	60.000	60.000
0092	645.0120	Geotextile Type HR	SY	305.000	305.000
0094	650.4500	Construction Staking Subgrade	LF	100.000	100.000
0096	650.5000	Construction Staking Base	LF	100.000	100.000
0098	650.6501	Construction Staking Structure Layout (structure) 01. B-9-311	EACH	1.000	1.000

02/10/2025 13:39:08

Estimate Of Quantities Page 2

Line	Item	Item Description	Unit	Total	Qty
0100	650.9911	Construction Staking Supplemental Control (project) 01. 8907-00-72	EACH	1.000	1.000
0102	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000
0104	690.0150	Sawing Asphalt	LF	40.000	40.000
0106	715.0502	Incentive Strength Concrete Structures	DOL	1,164.000	1,164.000
0108	999.2005.S	Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0110	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0112	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

			205.0100 COMMON EXCAVATION (1)		SALVAGED/UNUSABLE	AVAILABLE		EXPANDED FILL (5)		
DIVISION	FROM/TO STATION	LOCATION	CUT (2)	EBS EXCAVATION	PAVEMENT MATERIAL (3)	MATERIAL (4)	UNEXPANDED FILL	FACTOR 1.25	MASS ORDINATE +/- (6)	208.0100 BORROW
190TH AVE	9+25 TO 9+62.75	190TH AVE	31	EB3 EXCAVATION	10	21	61	76	-55	55
190 III AVE	10+37.25 TO 10+75	190TH AVE	33		10	23	60	75	-52	52
DIVISION 1 SUBTOTAL			64	0	20	44	121	151	-107	107
GRAND TOTAL			64	0	20	44	121	151	-107	107
	TOTAL CO	MMON EXC		64						

- (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.
- (3) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (4) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (5) EXPANDED FILL FACTOR = 1.25
- (6) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
- (7) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

STATION	ТО	STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF	STATION	ТО	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON					305.0120 BASE AGGREGATE DENSE 1 1/4- INCH	624.0100 WATER
9+25	_	9+75	WESTAPPROACH	136	9+25		9+75	WEST APPROACH SHOULDERS	6	STATION	ТО	STATION	LOCATION	TON	MGAL
10+25		10+75	EAST APPROACH	136		-			6						
10123		10173	LASTATTROACT	130	10+25	-	10+75	EAST APPROACH SHOULDERS	6	9+25	-	9+75	WEST APPROACH BASE	80	2
										10+25	-	10+75	EAST APPROACH BASE	80	2
			TOTAL 0010	272				TOTAL 0010	12						
													TOTAL 0010	160	4

		455.0605	465.0105 ASPHALTIC					625.0500	627.0200	628.2008 EROSION MAT	629.0210	630.0120	630.0200	630.0500
		TACK COAT	SURFACE					SALVAGED		URBAN CLASS I	FERTILIZER TYPE	SEEDING	SEEDING	
STATION TO STATION	LOCATION	GAL	TON					TOPSOIL	MULCHING	TYPE B	В	MIXTURE NO. 20	TEMPORARY	SEED WATER
				STATIO	N TO	STATION	LOCATION	SY	SY	SY	CWT	LB	LB	MGAL
9+25 - 9+75	WEST APPROACH	10	35											
10+25 - 10+75	EAST APPROACH	10	35	9+25	-	9+75	WEST APPROACH	115	115	10	0.10	7	7	4
				10+25	· -	10+75	EAST APPROACH	120	120	10	0.10	7	7	4
	TOTAL 0010	20	70				-							
							TOTAL 0010	235	235	20	0.20	14	14	8

MISCELLANEOUS QUANTITIES PROJECT NO: 8907-00-72 HWY: LOC STR COUNTY: CHIPPEWA SHEET

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- 9		/EST APPROACH	143	143			EROSION CONTROL	EROSION CONTROL		SIGNID	STATION	LOCATION	EACH	SF
9+80		'EST ABUTMENT			40	LOCATION	EACH	EACH		1-1	9+74	LT	1	3
10+20		AST ABUTMENT			40					1-2	10+26	LT	1	3
		AST APPROACH	135	135	==	PROJECT	5	2		1-3	9+74	RT	1	3
										1-4	10+26	RT	1	3
		TOTAL 0010	278	278	80	TOTAL 0010	5	2		1				
												TOTAL 0010	4	12
			REMOVING	638.3000 REMOVING SMALL SIGN SUPPORTS						643.0420 TRAFFIC	643.0705 TRAFFIC	643.0900	643.5	000
IGNID	STATION	LOCATION	EACH	EACH	REMARKS					CONTROL	CONTROL			
										BARRICADES	WARNING	TRAFFIC	TRAF	
1-1R	9+76	LT	1	1	BRIDGE HASH MARKE					TYPEIII	LIGHTS TYPE A	CONTROL SIGNS		
1-2R	10+25	LT	1	1	BRIDGE HASH MARKE			LOCATION	DURATION	DAY	DAY	DAY	EAC	. <u>H</u>
1-3R	11+00	LT	1	1	WEIGHT LIMIT 20 TON									
1-4R	9+25	RT	1	1	WEIGHT LIMIT 20 TON			PROJECT	80 DAYS	1,440	2,240	1,120	1	
1-5R	9+77	RT	1	1	BRIDGE HASH MARKE	R								
1-6R	10+25	RT	1	1	BRIDGE HASH MARKE	ER			TOTAL 0010	1,440	2,240	1,120	1	
1-7R		INDUSTRIAL DR	1	1	20 TON BRIDGE 2 MILES A	AHEAD								
1-8R		STH 64/CTH SS	1	1	20 TON BRIDGE 0.1 MILES	AHEAD								
		TOTAL 0010	8	8										
			650.4500	650.5000	CONSTRUCTION	650.9920							999	9.2005.S.(
					STAKING								MA	AINTAININ
					SUPPLEMENTAL					0.0150			BIRD	D DETERRE
			CONSTRUCTIO			CONSTRUCTION			SA	WING				SYSTEM
			STAKING	CONSTRUCTI		STAKING SLOPE			AS	PHALT			(ST	TATION) (0
			CURCRARE	CTAULIC DA	00 07 00 70	CTAVEC								
	TO STA	TION LOCATION	SUBGRADE N LF	STAKING BA LF	SE 8907-00-72) EACH	STAKES LF		STATION LOCAT	TION	LF				10+00)

50

COUNTY: CHIPPEWA

628.1905

MOBILIZATIONS

EROSION

628.1910

MOBILIZATIONS

EMERGENCY

50

50

HWY: LOC STR

50

100

1

628.1504

SILT FENCE

STATION TO STATION LOCATION

628.1520

SILTFENCE

MAINTENANCE

LF

628.6005

TURBIDITY

BARRIERS

SY

END PROJECT

TOTAL 0010

10+75

20

MISCELLANEOUS QUANTITIES

P-09-124

TOTAL 0020

637.2230

SIGNS TYPE II

REFLECTIVE F

REMARKS

W5-52L, 12"X36" W5-52R, 12"X36" W5-52R, 12"X36" W5-52L, 12"X36"

634.0612

POSTS WOOD

4X6-INCH X 12-

FT

SHEET

PROJECT

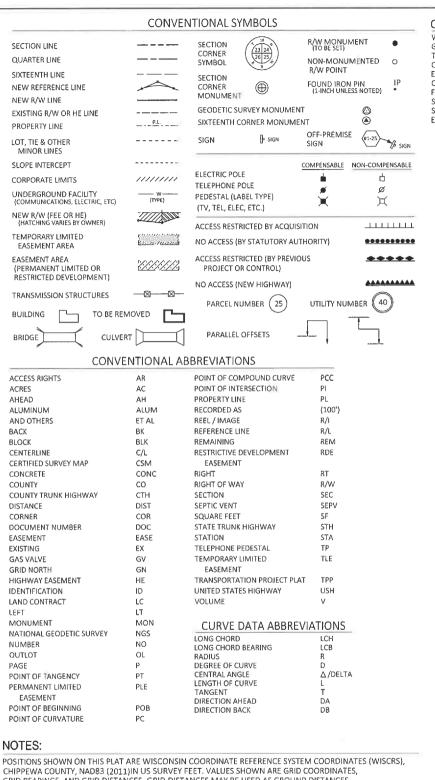
TOTAL 0010

9+25 - 9+75 WEST APPROACH

10+25 - 10+75 EAST APPROACH

PROJECT NO: 8907-00-72

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CHIPPEWA COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, CENTERLINE OF EXISTING PAVEMENTS AND/OR EXISTING OCCUPATIONAL LINES.

PROPERTY LINES SHOWN ON THIS PLAT FOR PROPERTIES BEING IMPACTED ARE DRAWN FROM DATA DERIVED FROM FILED/RECORDED MAPS AND DOCUMENTS OF PUBLIC RECORD. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIFLD SURVEY.

CONVENTIONAL UTILITY	SYMB
WATER	w
GAS	 6-
TELEPHONE	— т
OVERHEAD TRANSMISSION LINES	——он
ELECTRIC	—— Е
CABLE TELEVISION	TV
FIBER OPTIC	F0
SANITARY SEWER	SAN
STORM SEWER	ss
ELECTRIC TOWER	172

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

R/W PROJECT NUMBER	SHEET	TOTAL
8907-00-02	NUMBER	SHEETS
FEDERAL PROJECT NUMBER N/A	4.01	2

PLAT OF RIGHT OF WAY REQUIRED FOR

T BLOOMER, 190TH AVENUE BR DUNCAN CREEK BRIDGE B-09-311

LOCAL STREET

CHIPPEWA COUNTY

CONSTRUCTION PROJECT NUMBER 8907-00-72

AA 235TH, AVE 510 - 235TH AVE . Auburn Mud AA 2277H AVE 15 END RELOCATION ORDER STA 11+00.00 BK 281.35' EAST AND 4.04' SOUTH OF THE NORTH QUARTER OF SEC 5 T-30-N, R-9-W 24 217 TH D 22 2.3 24 22 SS AUBURN p 30 2₹ 34 35 등 32 T-31-N 3 Como T-30-N GG 6% **OKS** 12 14 13 SS 18 65TH 14AVE 22 BEGIN RELOCATION ORDER 21 O 124, STA 9+00.00 81.35' EAST AND 1.93' SOUTH OF THE NORTH QUARTER OF SEC 5 T-30-N, R-9-W Eagleton 40 30 ₽ 26

ENGINEERING MADISON | EAU CLAIRE | WAUKESHA | APPLETON | TOMAH | WAUSAU BRYON

MOTSZKO
S-2846
MENOMONIE
WI
SURVE BRYON I, MOTSZKO, PROFESSIONAL LAND SURVEYOR S-2846 I, BATON J. MOTESACO, PROPESSIONAL CHAID SONCEON, S-2646, HEREBY CERTIFY THAT I HAVE SURVEYED THE LAND DESCRIBED HEREON AND THAT THE MAP HEREON IS A CORRECT REPRESENTAT OF THAT SURVEY TO THE BEST OF MY KNOWLEDGE AND BELIEF

2.0 MI

PLOT NAME

REVISION DATE

TOWN OF BLOOMER

APPROVED FOR THE TOWN

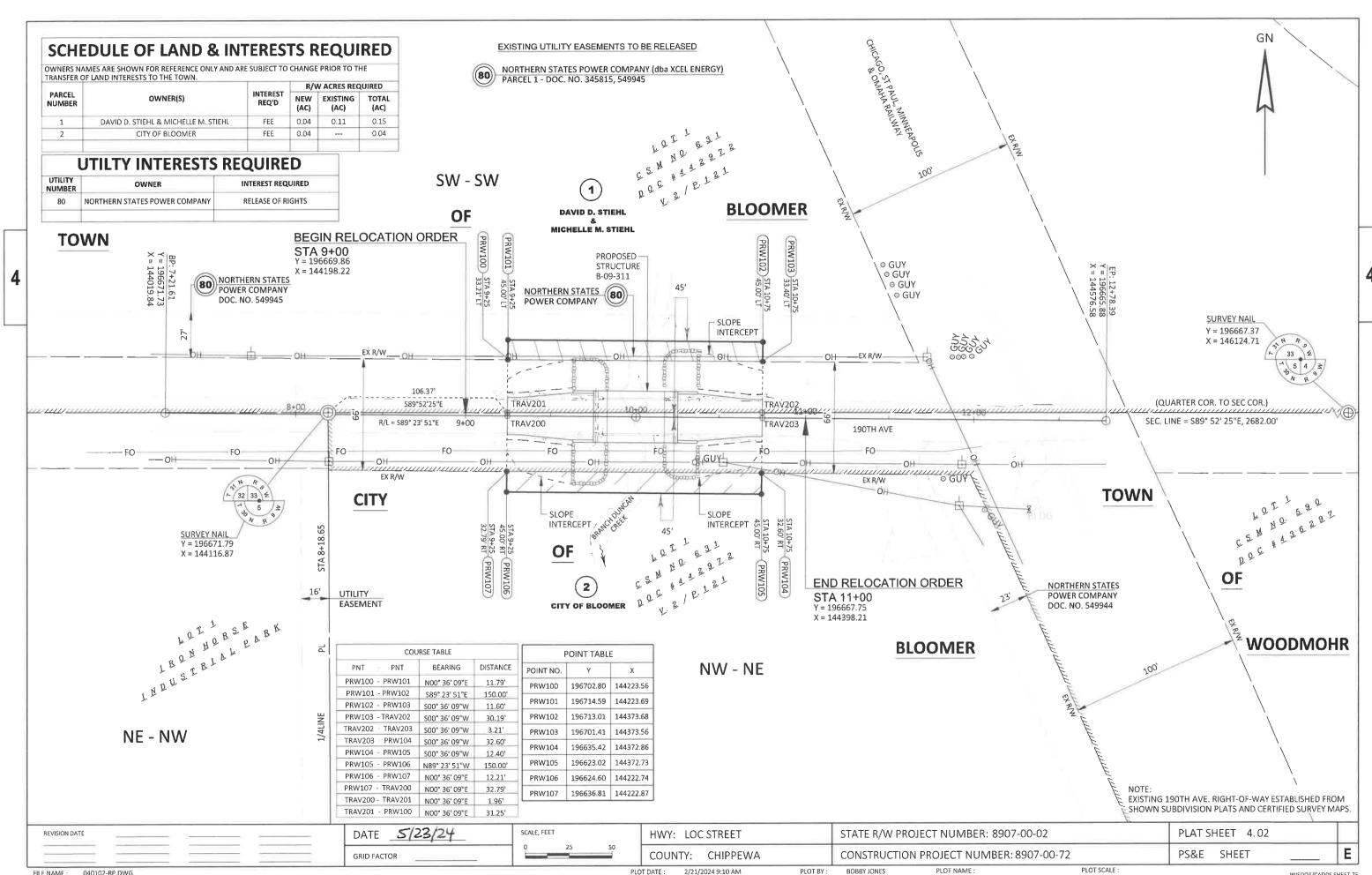
(Signature)

PLOT DATE: 2/21/2024 9:10 AM

TOTAL NET LENGTH OF CENTERLINE = 0.038 MI

SCALE

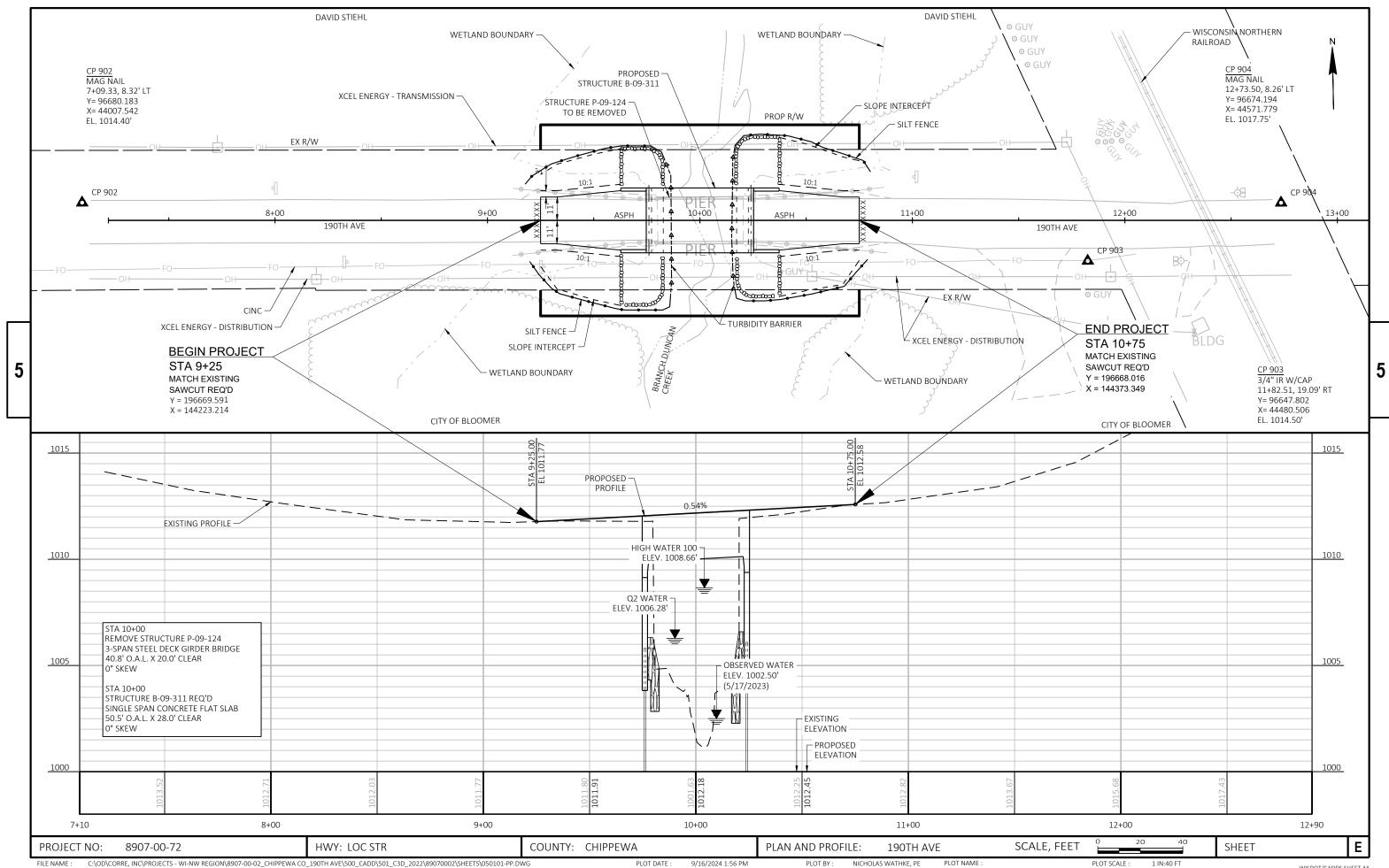
PLOT BY: BOBBY JONES



LAYOUT NAME - 040102-rp

PLOT BY: BOBBY JONES

PLOT SCALE



Standard Detail Drawing List

8E09-06	SILT FENCE
8E11-02	TURBIDITY BARRIER
.2A03-10	NAME PLATE (STRUCTURES)
.5C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
.5С02-09в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
.5C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES

6

TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK

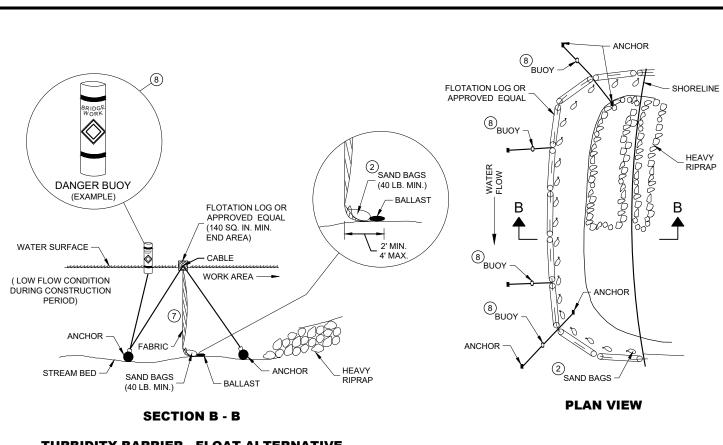
(WHEN REQUIRED BY THE ENGINEER)



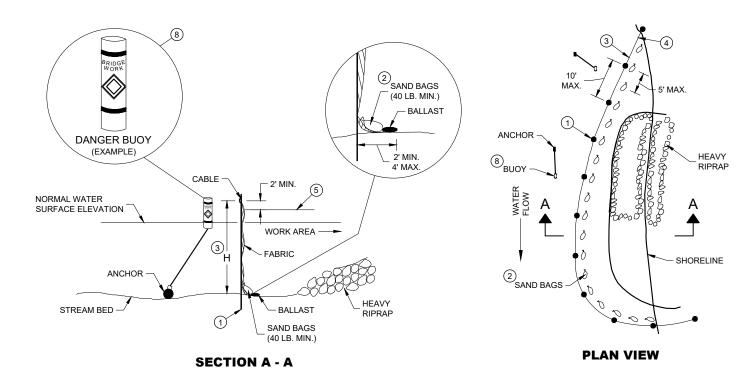
6

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D.D. 8 E 9-6



TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

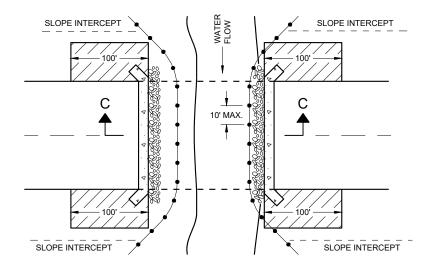
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

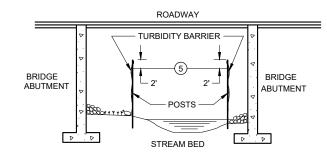
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH
- (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

APPROVED

3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

3-10





DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



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

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

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

R1 - 1 SHALL BE 36" X 36"

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

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

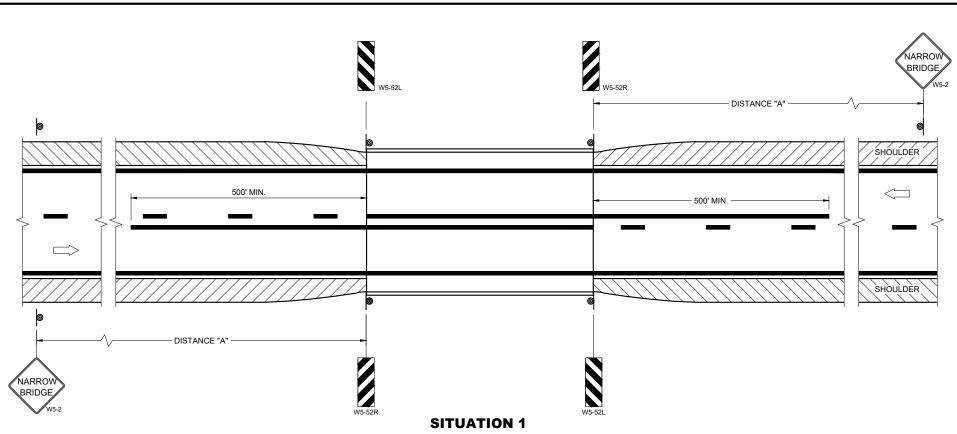
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

Ò 0 Ŋ



SDD 15C06-12



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

OR SHOULDER SHOULDER WS-52R WS-52L

SITUATION 2

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

SDD

15C06-12

GENERAL NOTES

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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

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

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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





RURAL AREA (See Note 2)



GENERAL NOTES

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

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

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

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



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

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

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

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

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

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



ELEVATION VIEW

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



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42





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



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

HWY:

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

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

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

Ε

CHEET NO.

SHEET NO:

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

PROJECT NO:

COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

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



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

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

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

PROJECT NO:



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

DATE 2/05/15

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

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

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

CHANNEL

GENERAL NOTES

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

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

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

PROJECT NO:

VIEW FROM TOP

GENERAL NOTES

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

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

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Manher R

APPROVED

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

SIGN

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

NOTES

- 1. Sign is Type II Type H Reflective
- 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 —		
	G F H B F G G	
R	l1-2B	

SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
2M	48	30	1 1/8	1/2	5/8	8	5	4	19 ¾	9 3/4	9 1/8																10.0
3	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
4	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0
5	48	30	1 1/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 1/8																10.0

STANDARD SIGN R11-2B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 2/5/24 PLATE NO. R11-2B.3

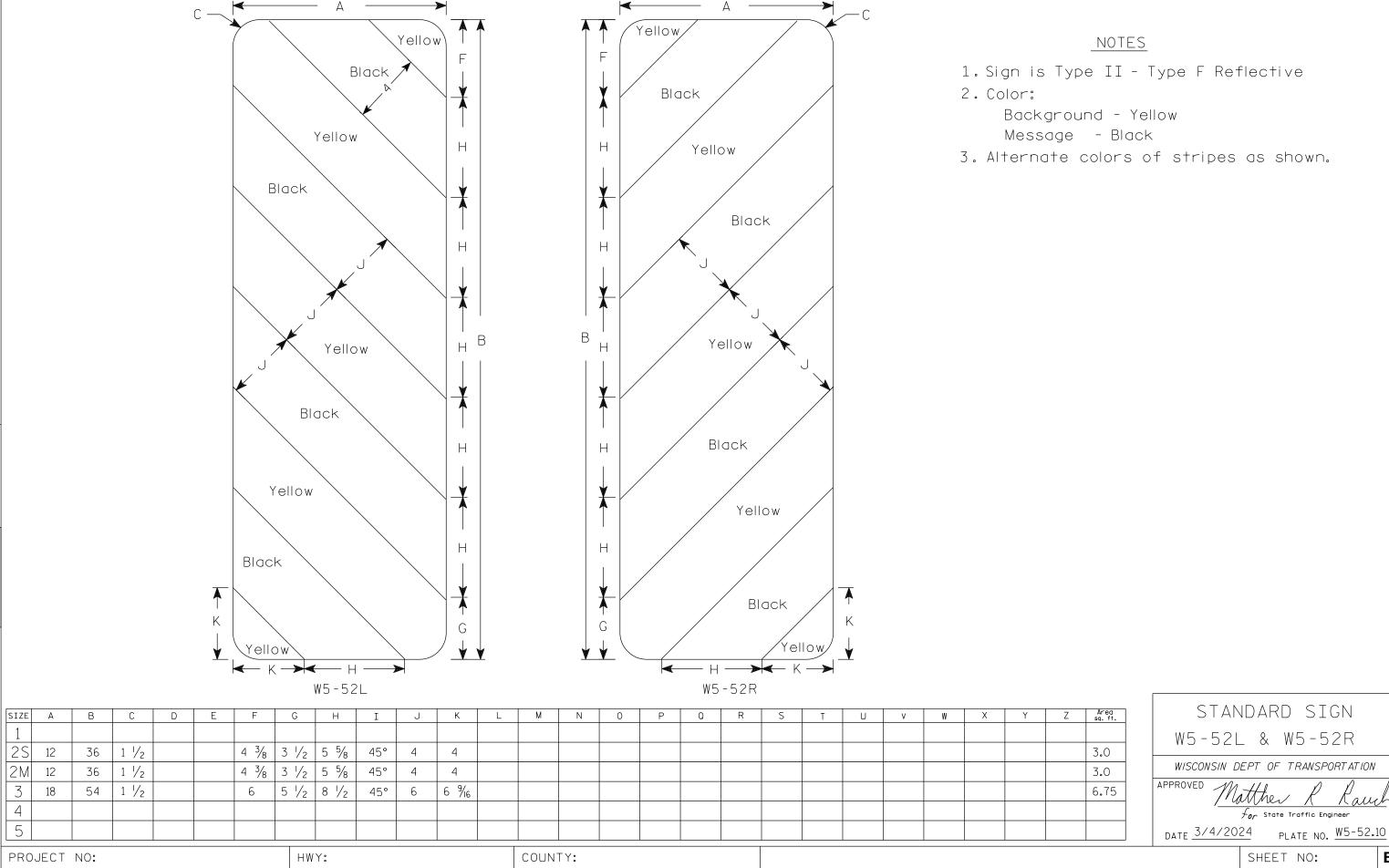
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R112B.dgn

PROJECT NO:

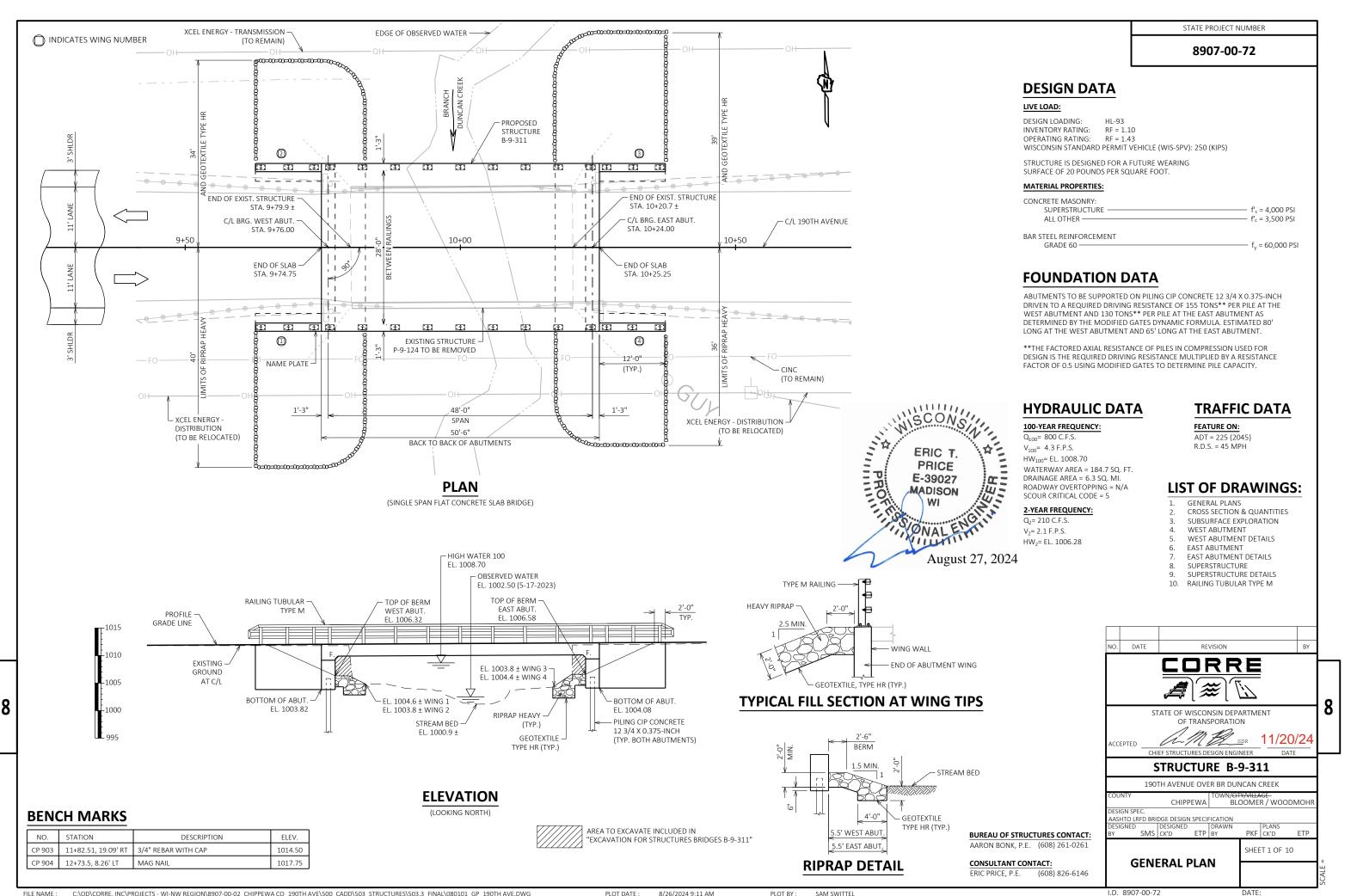
PLOT DATE : 5-FEB 2024 2:20

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42



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



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153 TYPE I, II OR III OR AASHTO

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 THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS, OR AS DIRECTED

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

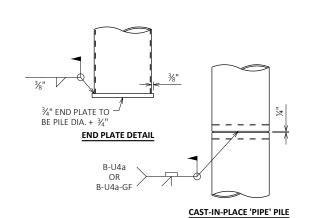
EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

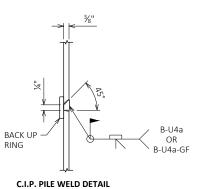
THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-9-311" SHALL BE THE EXISTING GROUNDLINE.

THE EXISTING STRUCTURE P-9-124, TO BE REMOVED, IS A 2 SPAN STEEL DECK GIRDER BRIDGE, 40.8 FT. LONG WITH

THE BACKFILL QUANTITIES ARE BASED ON THE LIMITS SHOWN ON THIS SHEET AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO "EXCAVATION FOR STRUCTURES BRIDGES B-9-311".

PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED TO THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, THE END 1'-0" OF THE ABUTMENT FRONT FACES, AND AS SHOWN, THE TOP OF SLAB, SLAB EDGES, AND THE UNDERSIDE OF THE SLAB AT EDGES.





LEGEND

CROSS SECTION THRU BRIDGE (LOOKING EAST)

30'-6"

OUT TO OUT OF SLAB

— C/L 190TH AVENUE

- POINT REFERRED TO ON PROFILE

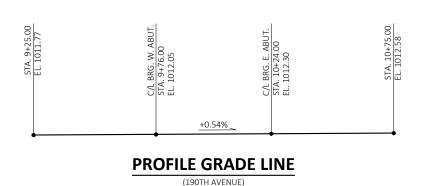
14'-0"

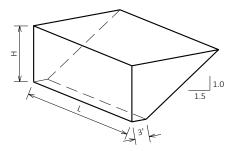
3/4" V-GROOVE REQ'D. EXTEND 6" FROM F.F. OF ABUTMENT BODY.

2'-2" SLAB -

COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.

14'-0"





- RAILING TUBULAR

(TYP.)

ABUTMENT BACKFILL PAY QUANTITY DIAGRAM

= 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)

 $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)$

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

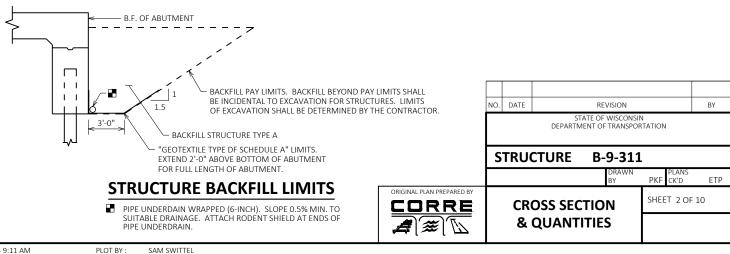
 $V_{TON} = V_{CY}(2.0)$

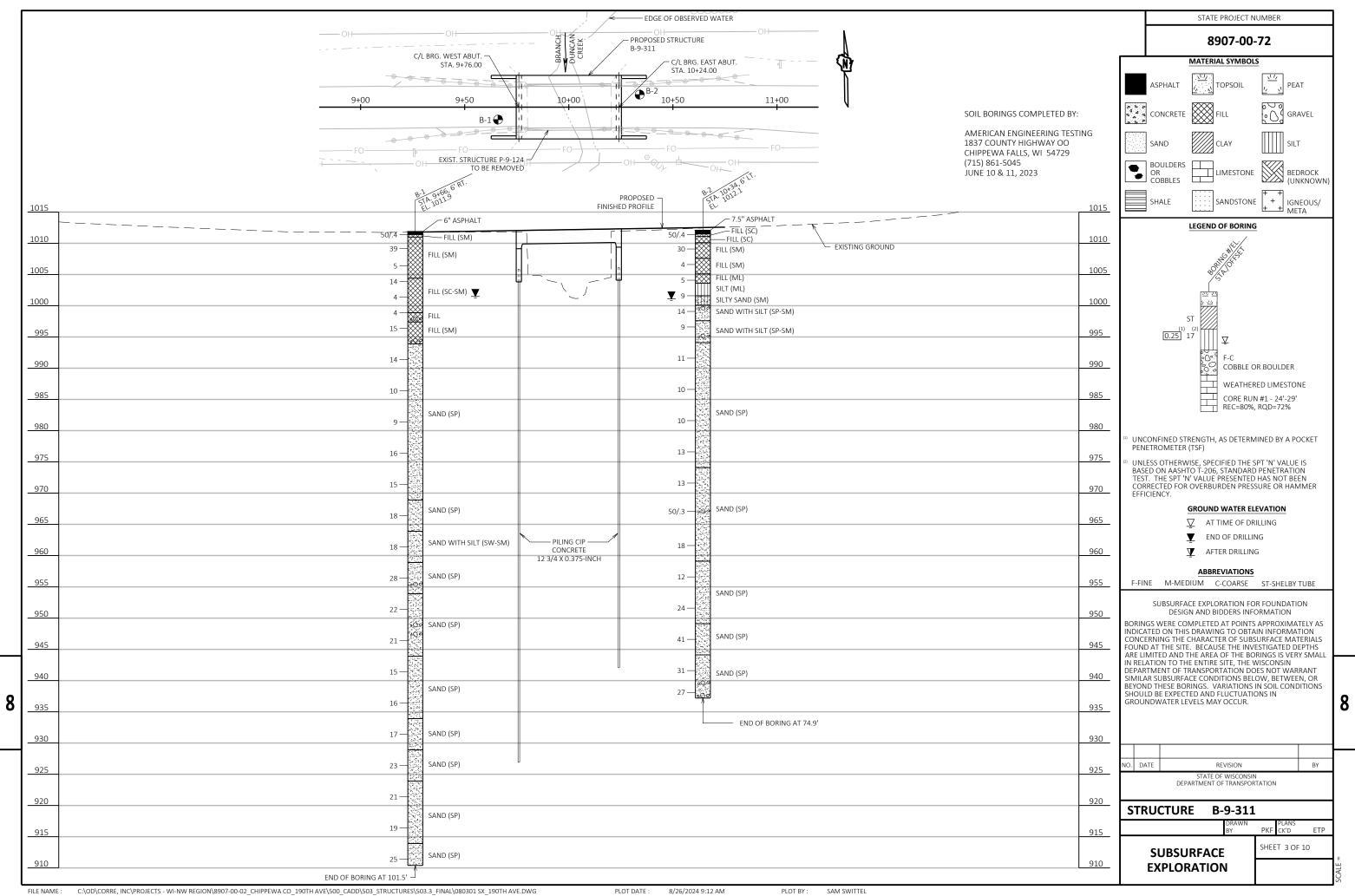
TOTAL ESTIMATED QUANTITIES

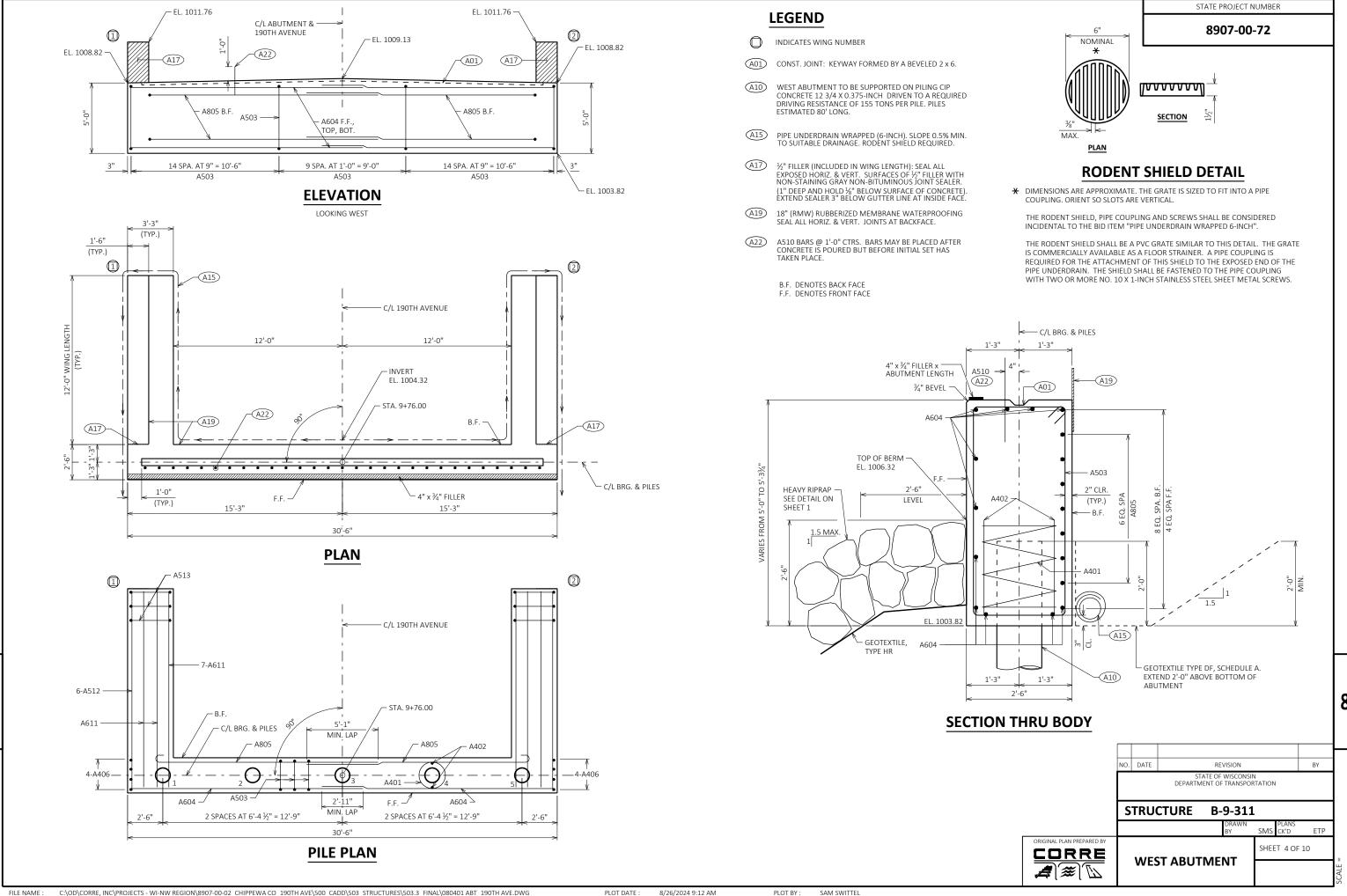
BID ITEM NUMBER	BID ITEM	UNIT	WEST ABUTMENT	EAST ABUTMENT	SUPER.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-9-124	EACH				1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-9-311	EACH				1
210.1500	BACKFILL STRUCTURE TYPE A	TON	135	135		270
502.0100	CONCRETE MASONRY BRIDGES	CY	32.9	33.0	128.1	194
502.3200	PROTECTIVE SURFACE TREATMENT	SY	11	11	206	228
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,870	1,890		3,760
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,710	1,710	21,660	25,080
513.4061	RAILING TUBULAR TYPE M	LF			154	154
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	10	10		20
550.2126	PILING CIP CONCRETE 12 3/4 X 0.375-INCH	LF	400	390		790
606.0300	RIPRAP HEAVY	CY	100	100		200
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	100	100		200
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	30	30		60
645.0120	GEOTEXTILE TYPE HR	SY	150	155		305
	NON-BID ITEMS					
	FILLER	SIZE				1/2" & 3/4"

ALL ITEMS ARE CATEGORY 0020

CIP PILE DETAILS

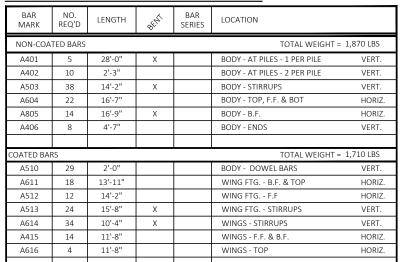












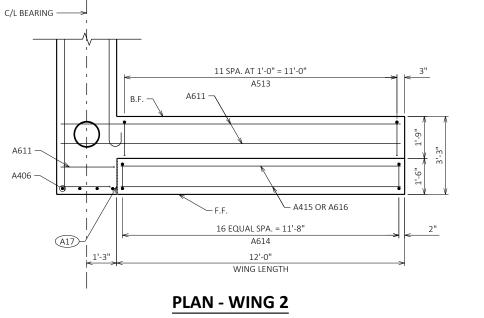
THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

LEGEND

CORRE

- (A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & ¾" "V" GROOVE @ F.F. IF JOINT IS USED).
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.
- A17) ½" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ½" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
 - B.F. DENOTES BACK FACE
 - F.F. DENOTES FRONT FACE



PLAN - WING 1

11 SPA. AT 1'-0" = 11'-0"

16 EQUAL SPA. = 11'-8"

A614

12'-0"

WING LENGTH

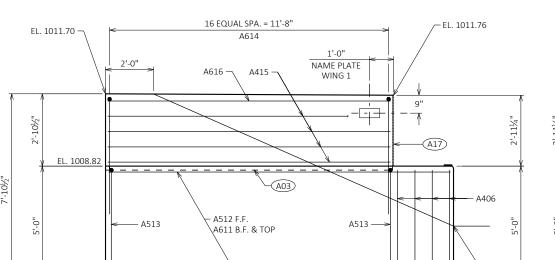
A415 OR A616 -

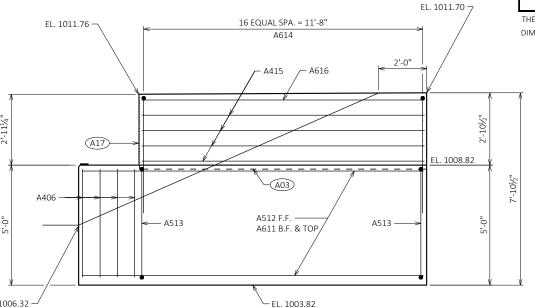
- C/L BEARING

- A611

A17

1'-3"

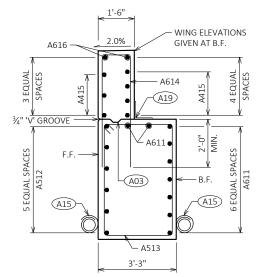




ELEVATION - WING 2

ELEVATION - WING 1

- EL. 1003.82



2'-2" A503 2'-11" A513 1-9" 15'-10" 50 180° STD. HOOK A614

D. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-9-311

WEST ABUTMENT DETAILS

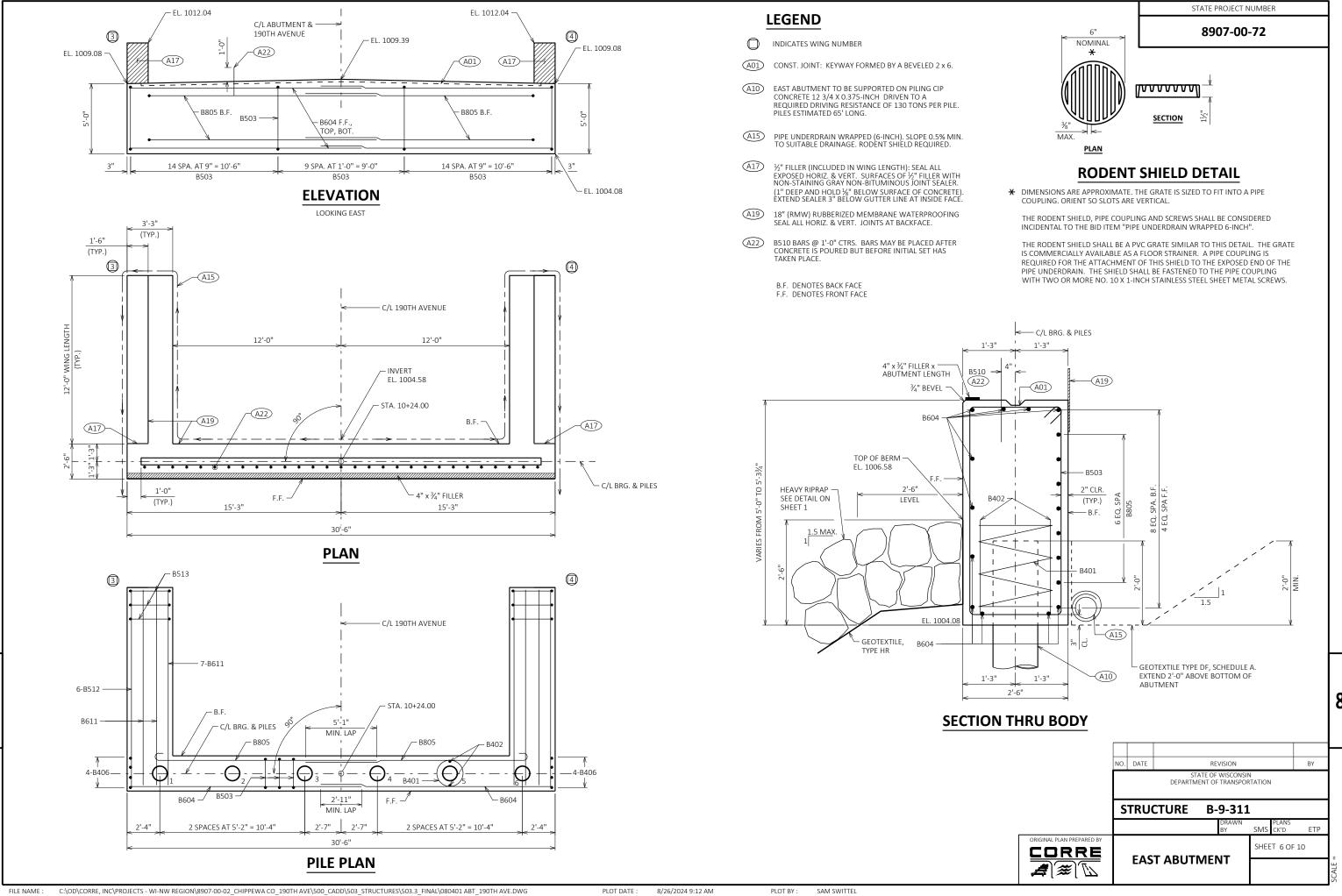
8

SMS CK'D ETP

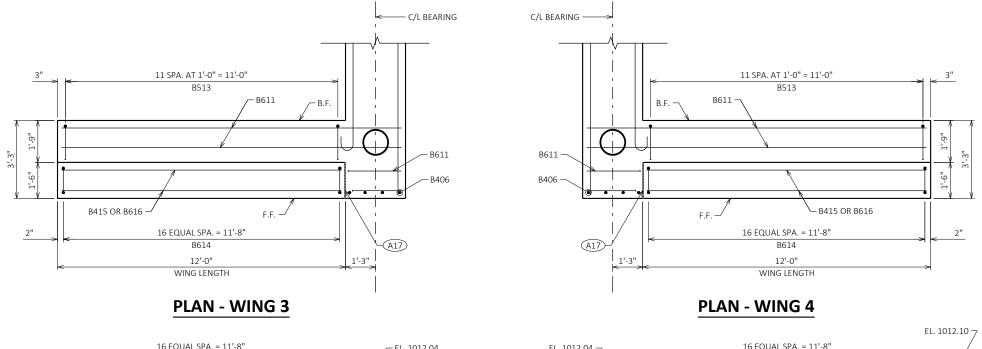
SHEET 5 OF 10

8

TYPICAL SECTION THRU WINGS







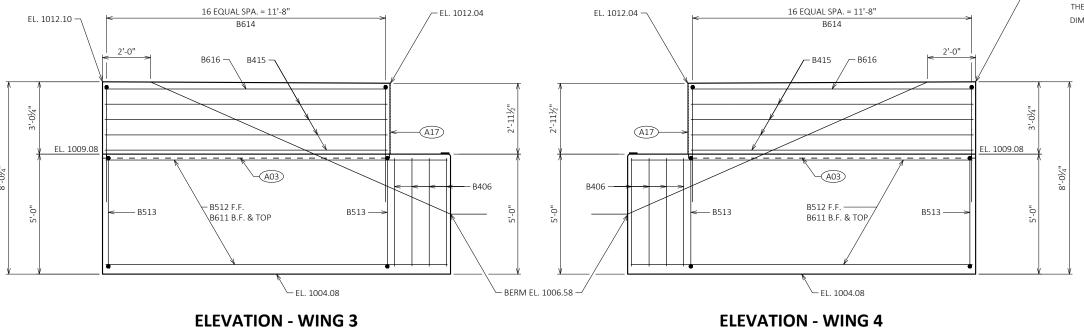
BILL OF BARS - EAST ABUTMENT

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION						
NON-CO	COATED BARS TOTAL WEIGHT = 1,890 LBS										
B401	6	28'-0"	Х		BODY - AT PILES - 1 PER PILE	VERT.					
B402	12	2'-3"			BODY - AT PILES - 2 PER PILE	VERT.					
B503	38	14'-2"	Х		BODY - STIRRUPS VE						
B604	22	16'-7"			BODY - TOP, F.F. & BOT HO						
B805	14	16'-9"	Х		BODY - B.F.	HORIZ.					
B406	8	4'-7"			BODY - ENDS	VERT.					
COATED BA	·RS				TOTAL WEIGHT =	1,710 LBS					
B510	29	2'-0"			BODY - DOWEL BARS	VERT.					
B611	18	13'-11"			WING FTG B.F. & TOP	HORIZ.					
B512	12	14'-2"			WING FTG F.F	HORIZ.					
B513	24	15'-8"	Х		WING FTG STIRRUPS	VERT.					
B614	34	10'-4"	Х		WINGS - STIRRUPS	VERT.					
B415	14	11'-8"			WINGS - F.F. & B.F.	HORIZ.					
B616	4	11'-8"			WINGS - TOP	HORIZ.					

THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

LEGEND

- (A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.
- $\frac{1}{2}$ " FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF $\frac{1}{2}$ " FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD $\frac{1}{8}$ " BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
 - B.F. DENOTES BACK FACE
 - F.F. DENOTES FRONT FACE



¾" 'V' GROOVE (A15) ─B513

5 WRAP SPIRAL B401

2'-2" B503 2'-11" B513 15'-10" - 180° STD. B503, B513 B805

B614

SAM SWITTEL

PLOT BY:

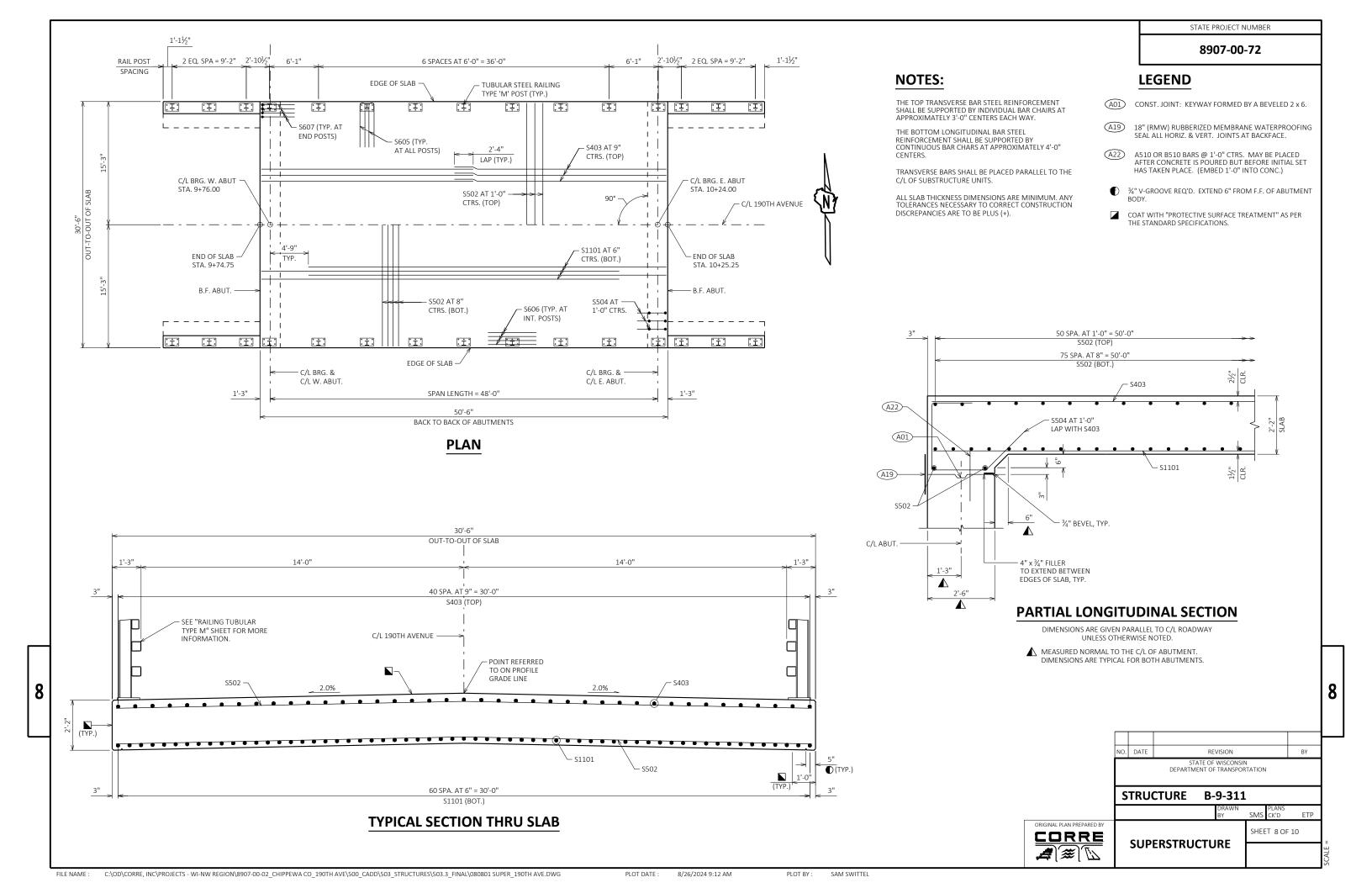
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-9-311 SHEET 7 OF 10

CORRE

EAST ABUTMENT DETAILS

TYPICAL SECTION THRU WINGS

WING ELEVATIONS



SPAN C/L BRG. W. ABUT. — – C/L BRG. E. ABUT. **CAMBER AND SLAB THICKNESS DIAGRAM**

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

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

TOP OF SLAB ELEVATION AT FINAL GRADE

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

LOCATION	C/L BRG. W. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	C/L BRG. E. ABUT.
NORTH EDGE	1011.74	1011.77	1011.79	1011.82	1011.84	1011.87	1011.90	1011.92	1011.95	1011.97	1012.00
C/L STRUCTURE	1012.05	1012.07	1012.10	1012.12	1012.15	1012.18	1012.20	1012.23	1012.25	1012.28	1012.30
SOUTH EDGE	1011.74	1011.77	1011.79	1011.82	1011.84	1011.87	1011.90	1011.92	1011.95	1011.97	1012.00

ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES

OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

EDGE OF SLAB ELEVATION IS THE TOP OUTER EDGE OF THE SLAB.

BILL OF BARS - SUPERSTRUCTURE

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION		
COATED BARS TOTAL WEIGHT = 21,660 LB:							
S1101	61	44'-4"			SLAB - BTM	LONGIT.	
S502	131	30'-2"			SLAB - TOP, BTM, & ABUT. DIAPHRAGMS	TRANS.	
S403	82	26'-3"			SLAB - TOP	LONGIT.	
S504	62	7'-9"	Х		SLAB - ABUT. DIAPHRAGMS	VERT.	
S605	36	11'-4"	Х		SLAB - TOP - AT RAIL POSTS	TRANS.	
S606	56	6'-0"			SLAB - TOP - AT INT. RAIL POSTS	LONGIT.	
S607	16	4'-8"	Х		SLAB - TOP - AT EXT. RAIL POSTS	LONGIT.	

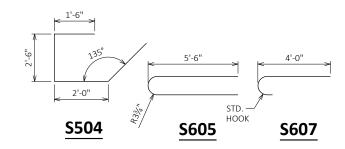
THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

SURVEY TOP OF SLAB ELEVATIONS

	C/L BRG. W. ABUT.	0.5 PT	C/L BRG. E. ABUT.
NORTH EDGE			
C/L STRUCTURE			
SOUTH EDGE			

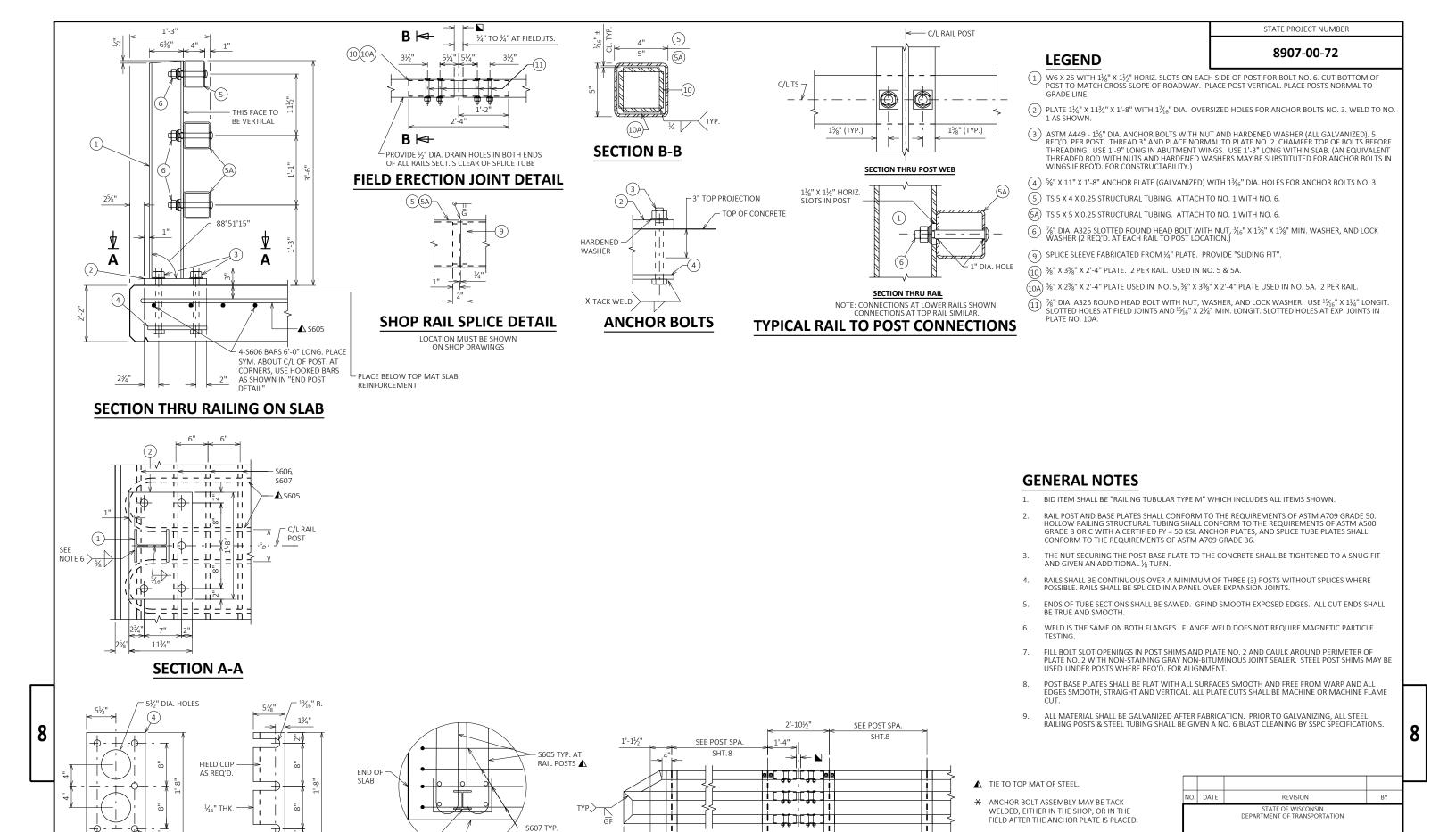
PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR R/L. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS. EDGE OF SLAB ELEVATION IS THE TOP OUTER EDGE OF THE SLAB.



NO. DATE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-9-311 SHEET 9 OF 10 **SUPERSTRUCTURE DETAILS**

ORIGINAL PLAN PREPARED BY CORRE

SAM SWITTEL



FILE NAME: C:\OD\CORRE, INC\PROJECTS - WI-NW REGION\8907-00-02_CHIPPEWA CO_190TH AVE\500_CADD\503_STRUCTURES\503.3_FINAL\0801001 MRAIL_190TH AVE.DWG

POST SHIM

DETAIL

13/16" DIA. HOLES

ANCHOR BOLTS

FOR 11/8" DIA.

ANCHOR PLATE

END POST

RAIL POSTS

 ackslash edge of slab

END POST DETAIL

REINFORCEMENT AT CORNERS

ABUTMENT WINGWALL

PART ELEVATION OF RAILING

SAM SWITTEL

N 1/4" TO 3/4"

STRUCTURE B-9-311

RAILING TUBULAR

TYPE M

CORRE

#](#)

SHEET 10 OF 10

DIVISION -- 190TH AVE

DIVISION	- IJUIIIAVL									
		AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION	DISTANCE	СИТ	SALVAGED/UNUSABLE	FILL	CUT	SALVAGED/UNUSABLE	FILL	СИТ	EXPANDED FILL	MASS ORDINATE
			PAVEMENT MATERIAL			PAVEMENT MATERIAL		1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
09+25	0.00	24.87	7.33	4.25	0	0	0	0	0	0
09+50	25.00	21.45	7.33	56.13	21	7	28	21	35	-21
09+62.75	12.75	19.70	7.33	84.81	10	3	33	31	76	-55
					STRU	JCTURE B-09-311				
10+37.25	0.00	20.34	7.33	79.70	0	0	0	31	76	-55
10+50	12.75	21.96	7.33	54.65	10	3	32	41	116	-88
10+75	25.00	27.82	7.33	6.83	23	7	28	64	151	-107

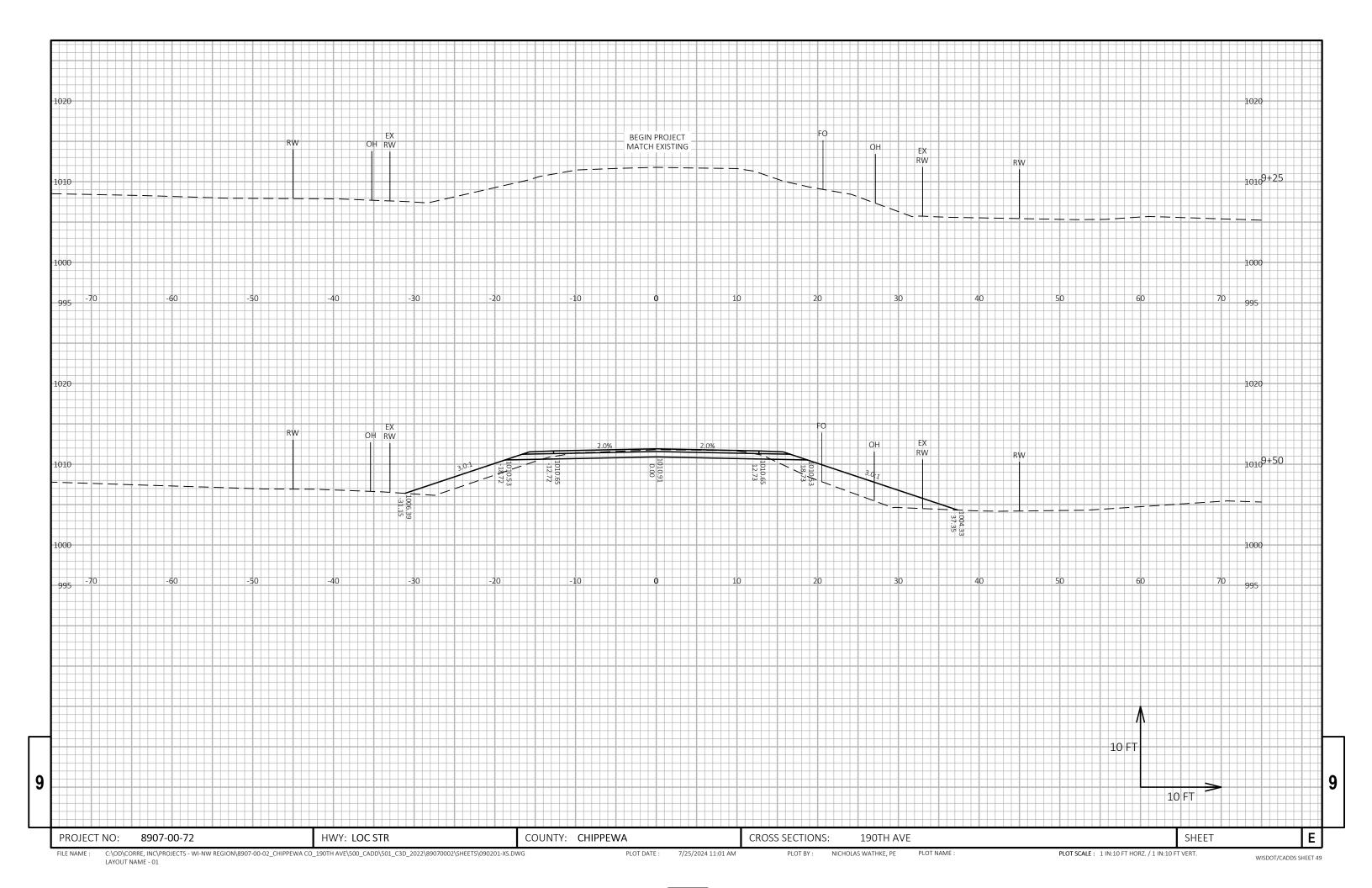
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	(CUT - SALVAGED PAVT - (FILL * FILL FACTOR))

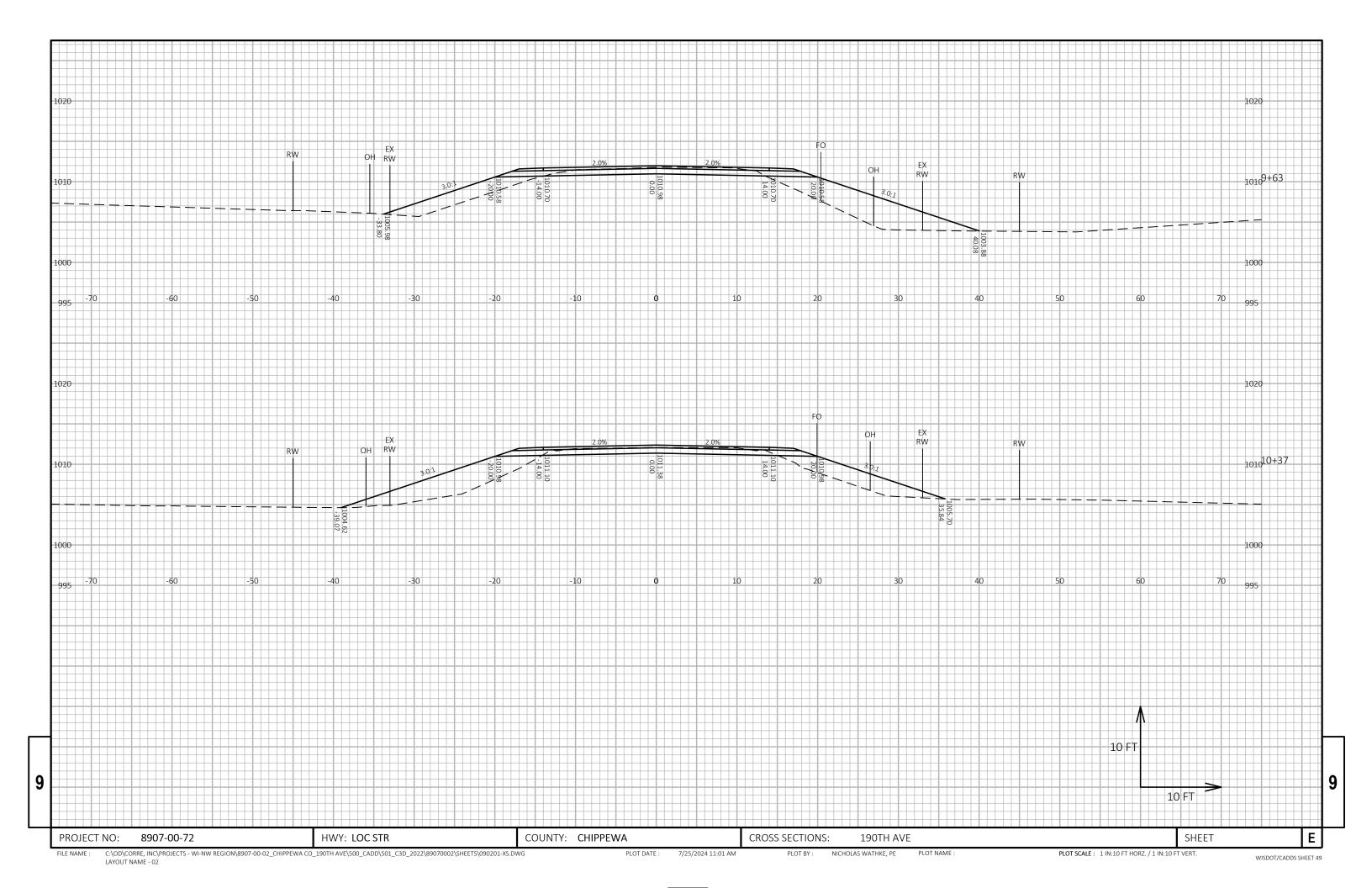
COUNTY: CHIPPEWA SHEET Ε PROJECT NO: 8907-00-72 HWY: LOC STR EARTHWORK DATA PLOT DATE : 7/25/2024 11:00 AM

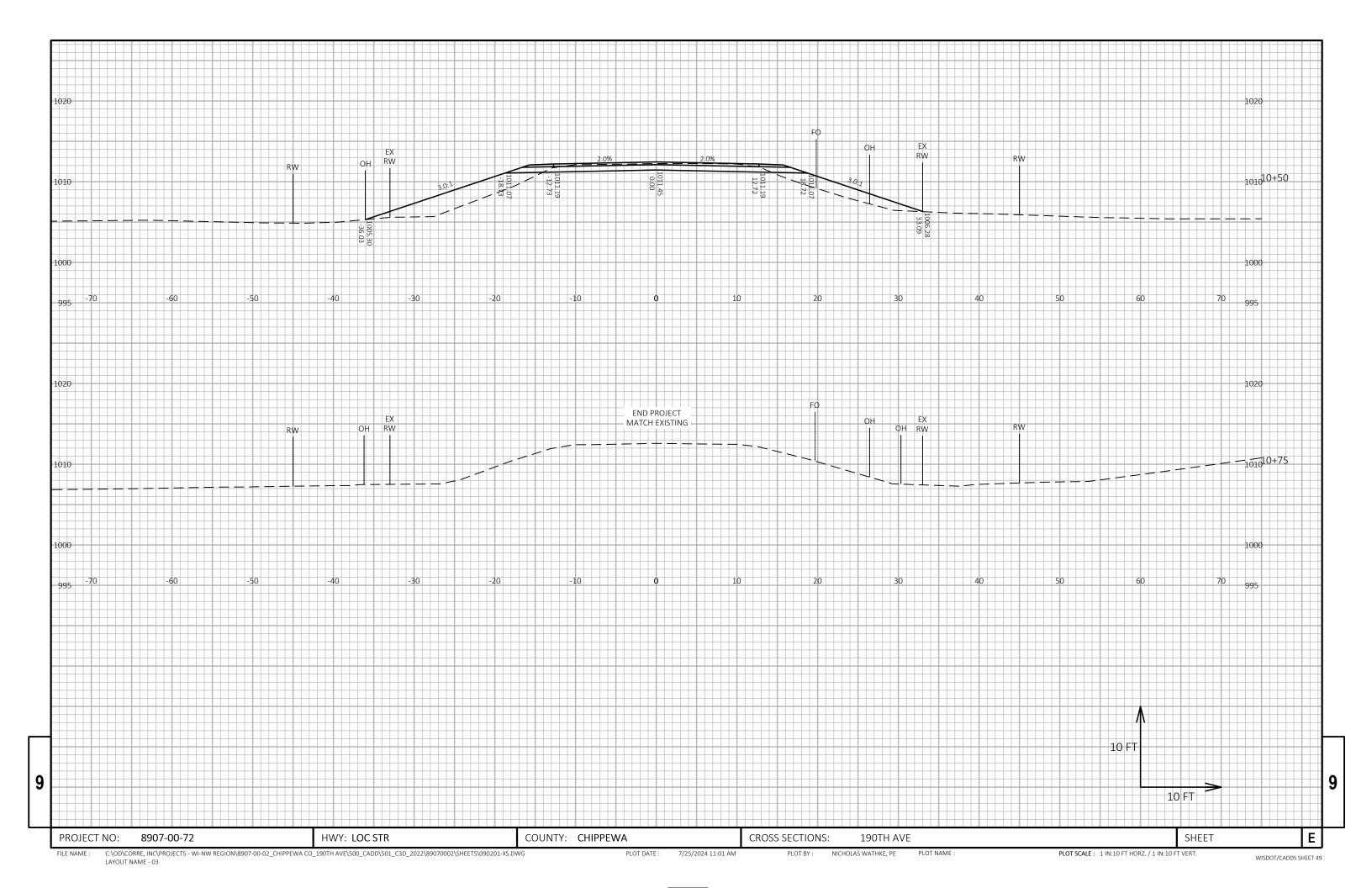
FILE NAME: C:\OD\CORRE, INC\PROJECTS - WI-NW REGION\8907-00-02_CHIPPEWA CO_190TH AVE\500_CADD\501_C3D_2022\89070002\\$HEET\$\090101-EW.DWG LAYOUT NAME - 01

PLOT SCALE : 1" = 1'

9









Wisconsin Department of Transportation

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