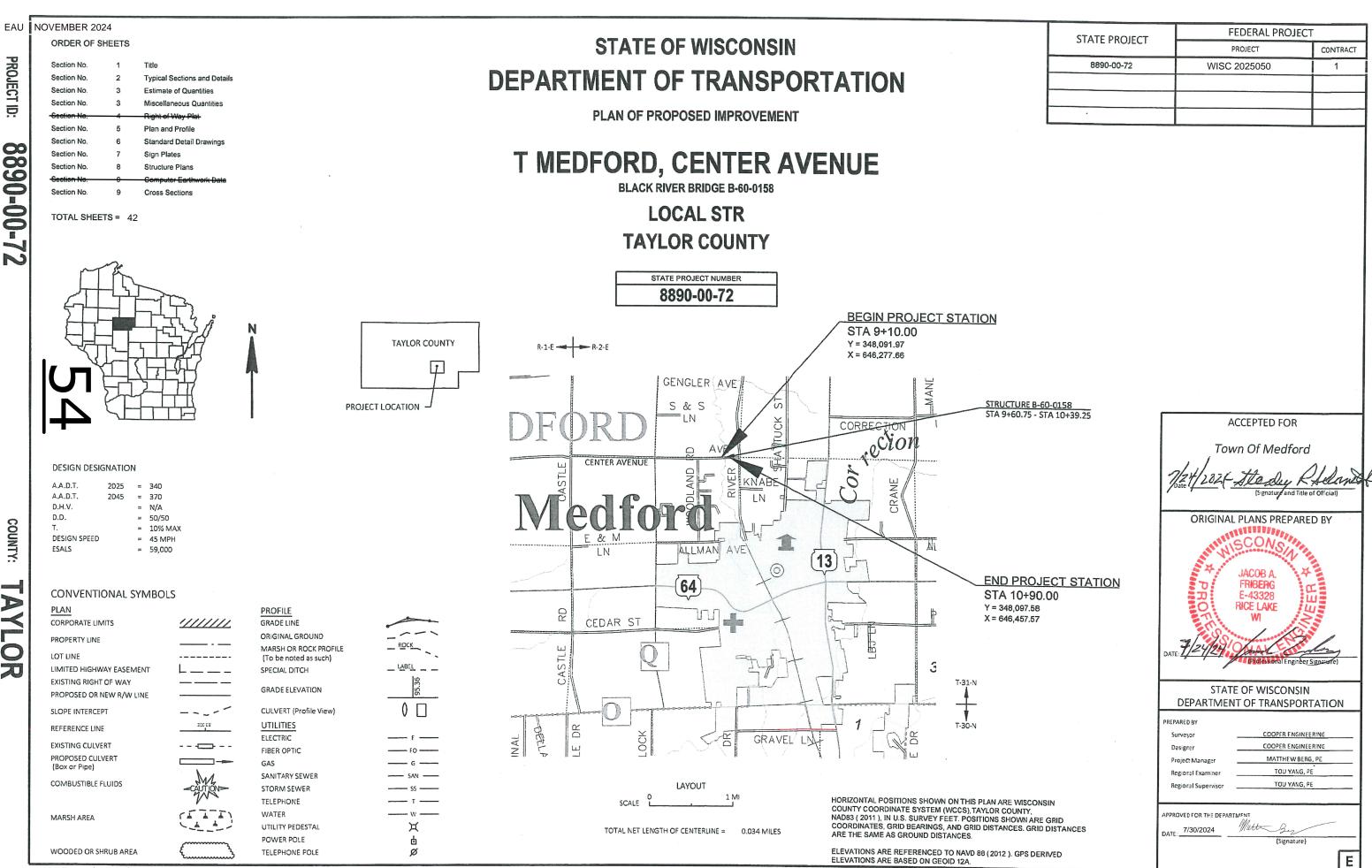
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7/11/2024 8:44 AM

LIST OF STANDARD ABBREVIATIONS

LEFT

МН

PAVT

PF

PT

RCCP

RD

RFRAR

REQD

RDWY

RL, R/L

RHF

RT.

R/W

SAN S

SDD

SE

SHLDR

SPECS

SQ.

SS.

SY

STH

STA.

TL, T/L

TEL

TLE TYP

USH

UG

VAR.

VERT

YD

TEMP

SW

LUMP SUM

MANHOLE

PAVEMENT

NORMAL CROWN

POINT OF CURVATURE

POINT OF INTERSECTION

PRIVATE ENTRANCE

POINT OF TANGENCY

REINFORCEMENT BAR

RIGHT HAND FORWARD

REINFORCED CONCRETE

PROPERTY LINE

POWER POLE

RANGE RADIUS

CULVERT PIPE

REFERENCE LINE

RIGHT-OF-WAY

SANITARY SEWER

SUPER ELEVATION

SQUARE FEET

SPECIFICATIONS

STORM SEWER

SOLIARE YARD

STATE TRUNK HIGHWAY

TEMPORARY LIMITED EASEMENT

UNITED STATES HIGHWAY

SHOULDER

SQUARE

STREET

STATION

SIDEWALK

TANGENT

TOP OF CURB

TRANSIT LINE

TELEPHONE

TEMPORARY

UNDERGROUND

DESIGN SPEED

VARIABLE

VERTICAL

YARD

TYPICAL

STANDARD DETAIL DRAWING

ROAD

REQUIRED

ROADWAY

RAII ROAD

RIGHT

SOUTH

NORTH

ABUT

AC

AGG

ΑН

ADT

AVG.

ASPH

BK.

BM

 \triangle

C, C/L

C. & G

CABC

CONC.

COR

CORR

CSCP

CSPA

CTH

CP.

CY

CWT.

DIA

DHV

DWY

EBS

FLFC.

FXC.

EXIST

FE

FF.

G

GN

HYD

INV

LC

LF

LHF

FILE NAME :

INTERS

Н

D

ABUTMENT

AGGREGATE

AVERAGE DAILY TRAFFIC

CENTRAL ANGLE OR DELTA

ACRES

AHEAD

AVERAGE

ASPHALTIC

BENCHMARK

CENTERLINE

BASE COURSE

CORRUGATED

CORRUGATED STEEL

CORRUGATED STEEL

COUNTY TRUNK HIGHWAY

DESIGN HOURLY VOLUME

EXC. BELOW SUB GRADE

CULVERT PIPE

PIPE ARCH

CULVERT PIPE

HUNDREDWEIGHT

DEGREE OF CURVE

CUBIC YARD

DIAMETER

DRIVEWAY

FLECTRIC

EXISTING

FXCAVATION

FIELD ENTRANCE

FACE TO FACE

FLOW LINE FULL SUPERELEVATION

GRID NORTH

GARAGE

HOUSE

HYDRANT

INVFRT

INTERSECTION

LINEAR FOOT

IRON PIN OR PIPE

INTERSECTION ANGLE

LONG CHORD OF CURVE

LEFT HAND FORWARD LENGTH OF CURVE

ELEV., EL ELEVATION

CONCRETE

CORNER

CURB AND GUTTER

CRUSHED AGGREGATE

BACK

UTILITY CONTACTS

COMMUNICATIONS

CHARTER
JESSE GRUNY
503 E IVES ST, STE 316
MARSHFIELD, WI 54449
PHONE: (715) 651-5605
EMAIL: Jesse.Gruny@charter.com

COMMUNICATIONS

TDS TELECOM

JEFF OLSON

202 OGDEN ST

MEDFORD, WI 54451

PHONE: (608) 845-2219

EMAIL: jeffrey.olson@tdstelecom.com

ELECTRIC

TAYLOR ELECTRIC COOPERATIVE
WADE MATYKA
N1831 STATE HIGHWAY 13
MEDFORD, WI 54451
PHONE: (715) 678-2411
EMAIL: wade@taylorelectric.org

ELECTRIC

XCEL ENERGY
DAWN SCHULTZ
1414 W HAMILTON AVE, P.O. BOX 8
EAU CLAIRE, WI 54701
PHONE: (715) 737-2482
EMAIL: dawn.schultz@xcelenergy.com

tdstelecom com FMA

ALL UTILITIES LISTED ARE MEMBERS OF DIGGERS HOTLINE



GENERAL NOTES:

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE FINGINEER

ACCESS TO ALL RESIDENCES & SIDE ROADS SHALL BE MAINTAINED DURING CONSTRUCTION.

THE LOCATION OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

OTHER CONTACTS

DESIGN CONSULTANT

COOPER ENGINEERING
JACOB FRIBERG
2600 COLLEGE DRIVE
RICE LAKE, WI 54868
PHONE: (715) 234-7008
EMAIL: jfriberg@cooperengineering.net

TOWN OF MEDFORD

CHAIRMAN STANLEY SCHMIDT W6462 CENTER AVENUE MEDFORD, WI 54451 PHONE: (715) 560-2811 EMAIL: srs3839@hotmail.com

WDNR REGIONAL CONTACT

WDNR/WISDOT LIAISON
WENDY HENNIGES
107 SUTLIFF AVENUE
RHINELANDER, WI 54501
PHONE: (715) 499-1608
EMAIL: Wendy.Henniges@wisconsin.gov

RUNOFF COEFFICIENT TABLE

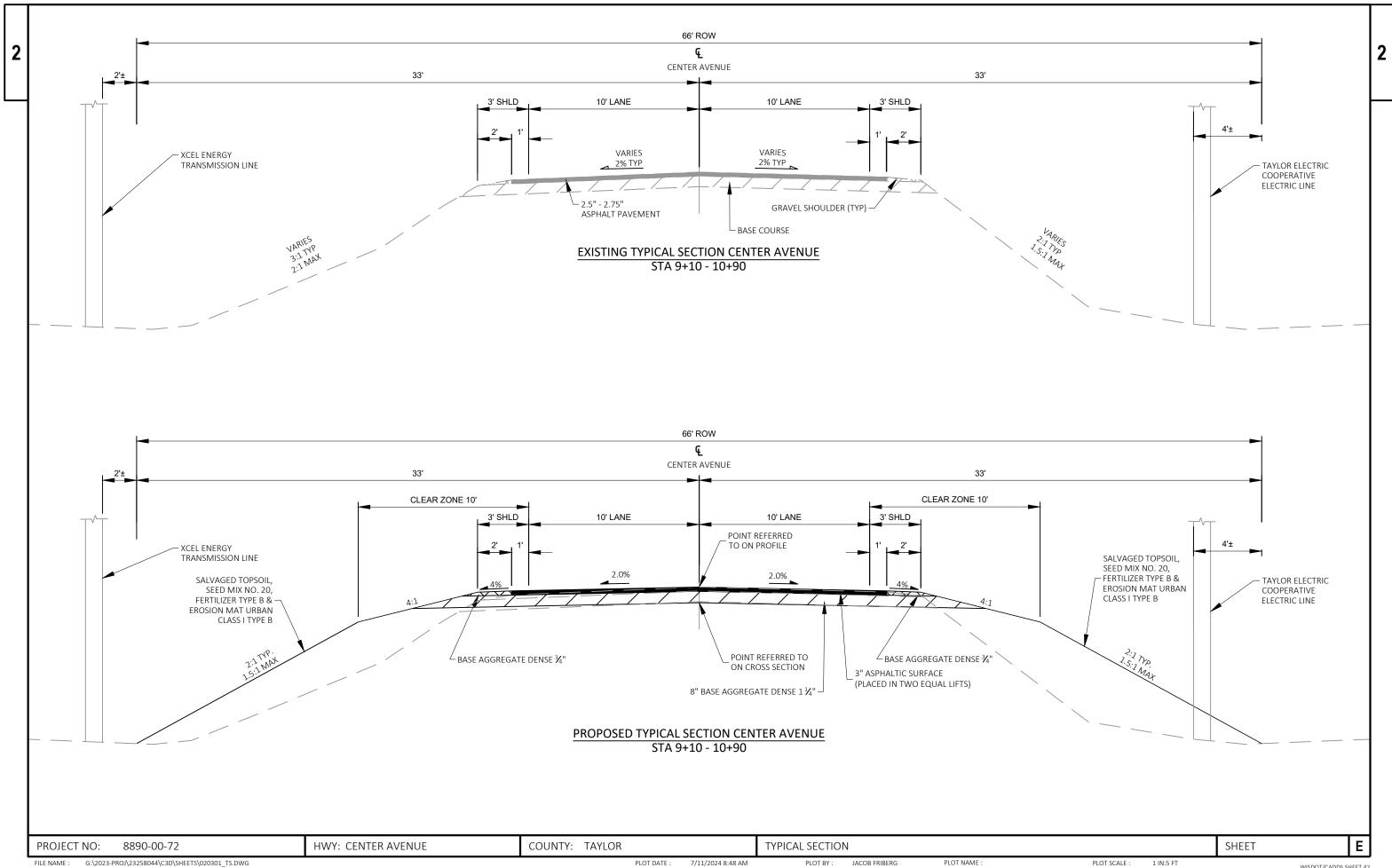
		H	/DROLOGIC SO	OIL GRO					
		A			В			С	
	SLOPE RANGE (%)		SLOPE RANGE (%)			SL	OPE RA	NGE (%)	
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36
PAVEMENT:									
ASPHALT			.7095						
CONCRETE			.8095						
BRICK			.7080						
DRIVES, WALKS			.7585	•			•		
ROOFS			.7595						
GRAVEL ROADS, SH	HOULDER	RS	.4060						

TOTAL PROJECT AREA = 0.27 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.23 ACRES

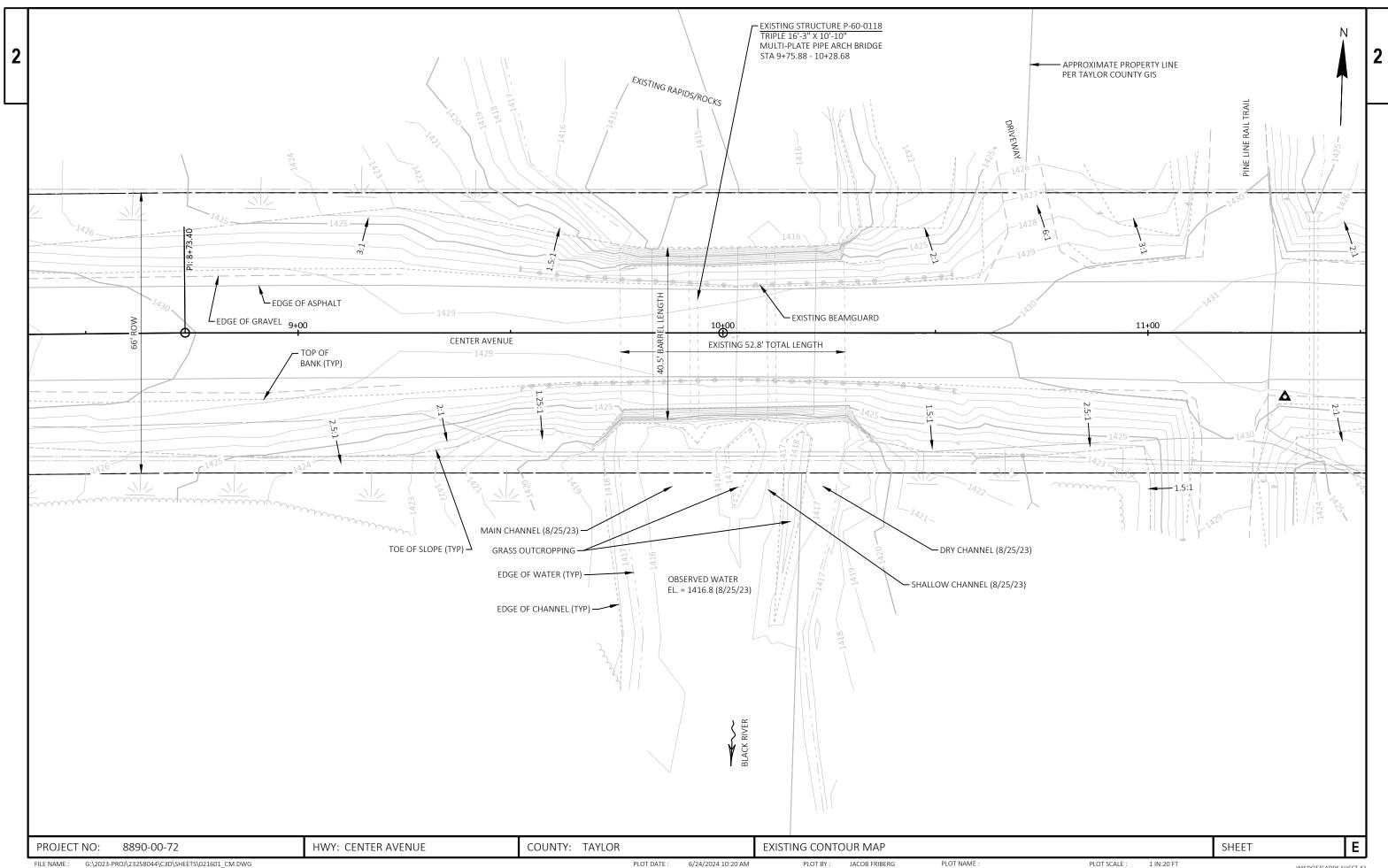
PROJECT NO: 8890-00-72 HWY: CENTER AVENUE COUNTY: TAYLOR GENERAL NOTES SHEET **E**

G:\2023-PROJ\23258044\C3D\SHEETS\020101_GN.DWG PLOT DATE: 9/24/2024 2:50 PM PLOT BY: JACOB FRIBERG PLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDS SHEET 42 PLOY NAME - GENERAL NOTES



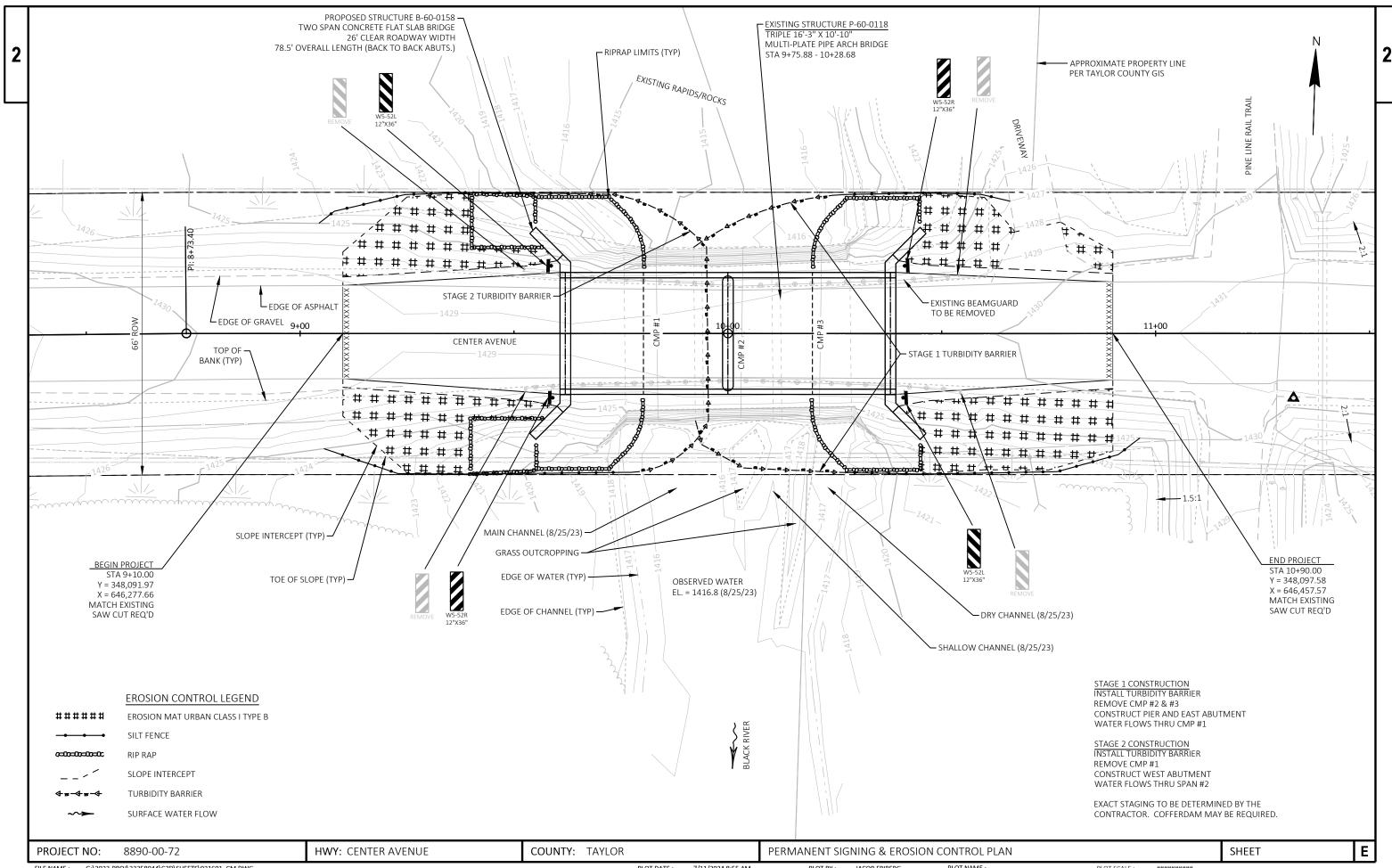
LAYOUT NAME - CENTER AVE TS

WISDOT/CADDS SHEET 42

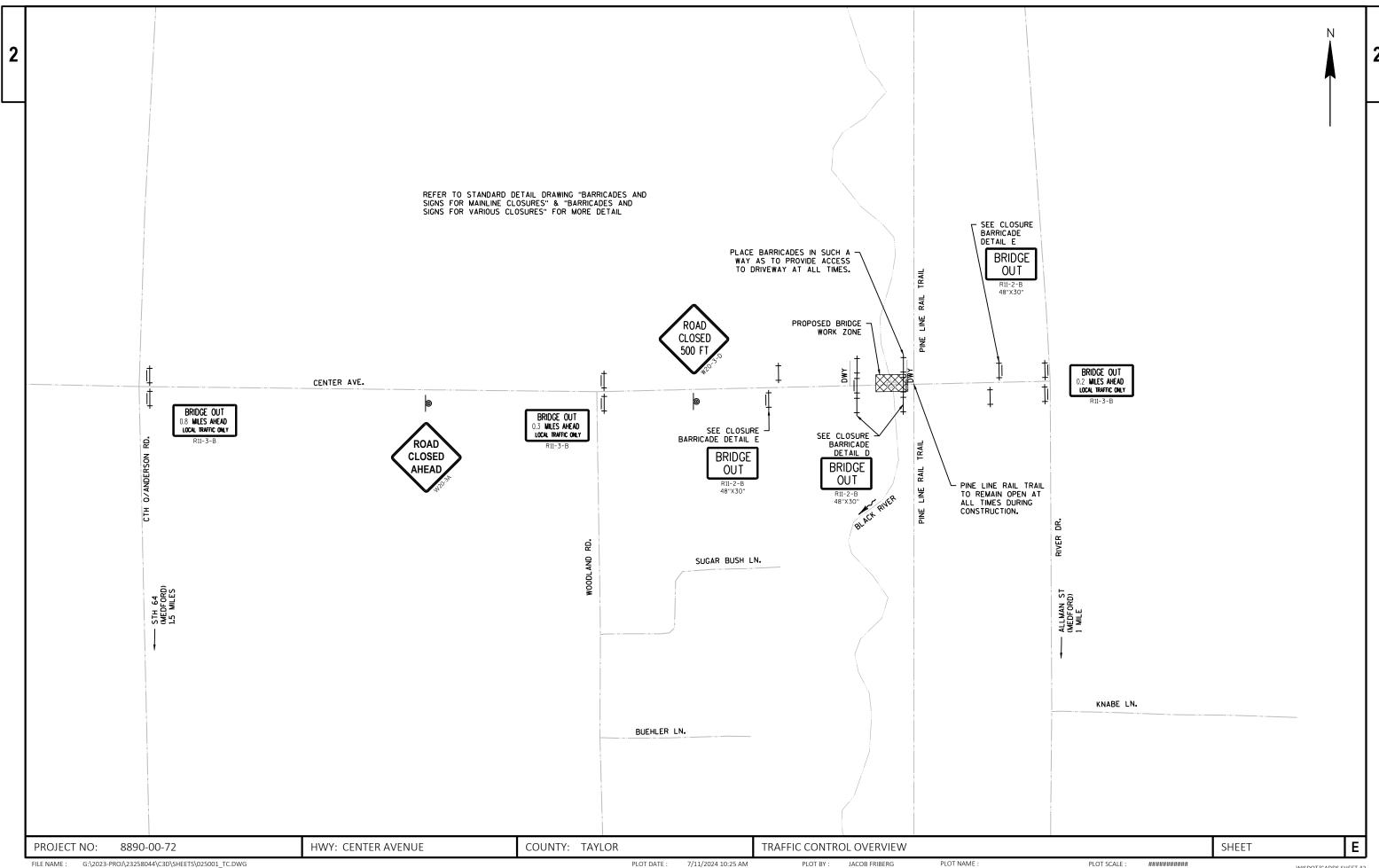


G:\2023-PROJ\23258044\C3D\SHEETS\021601_CM.DWG LAYOUT NAME - EXISTING CONTOUR MAP

WISDOT/CADDS SHEET 42



FILE NAME: G\2023-PROJ\23258044\C3D\SHEETS\021601_CM.DWG PLOT DATE: 7/11/2024 8:55 AM PLOT BY: JACOB FRIBERG PLOT NAME: PLOT SCALE: ######### WISDOT/CADDS SHEET 42 AVOUT NAME - PS & EC PLAN



8890-00-72				
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	XX	11 1-1	1()-	,,

					8890-00-72	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0220	Removing Structure (structure) 01. P-60-0118	EACH	1.000	1.000	
0004	204.0165	Removing Guardrail	LF	204.000	204.000	
0006	205.0100	Excavation Common	CY	80.000	80.000	
8000	206.1001	Excavation for Structures Bridges (structure) 01. B-60-0158	EACH	1.000	1.000	
0010	208.0100	Borrow	CY	120.000	120.000	
0012	210.1500	Backfill Structure Type A	TON	300.000	300.000	
0014	213.0100	Finishing Roadway (project) 01. 8890-00-72	EACH	1.000	1.000	
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	35.000	35.000	
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	175.000	175.000	
0020	455.0605	Tack Coat	GAL	20.000	20.000	
0022	465.0105	Asphaltic Surface	TON	50.000	50.000	
0024	502.0100	Concrete Masonry Bridges	CY	227.000	227.000	
0026	502.3200	Protective Surface Treatment	SY	321.000	321.000	
0028	505.0400	Bar Steel Reinforcement HS Structures	LB	6,120.000	6,120.000	
0030	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	31,440.000	31,440.000	
0032	513.4061	Railing Tubular Type M	LF	162.000	162.000	
0034	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000	
0036	550.0020	Pre-Boring Rock or Consolidated Materials	LF	78.000	78.000	
0038	550.0500	Pile Points	EACH	14.000	14.000	
0040	550.1120	Piling Steel HP 12-Inch X 53 Lb	LF	500.000	500.000	
0042	606.0300	Riprap Heavy	CY	210.000	210.000	
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	200.000	200.000	
0046	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8890-00-72	EACH	1.000	1.000	
0048	619.1000	Mobilization	EACH	1.000	1.000	
0050	624.0100	Water	MGAL	2.000	2.000	
0052	625.0500	Salvaged Topsoil	SY	275.000	275.000	
0054	628.1504	Silt Fence	LF	260.000	260.000	
0056	628.1520	Silt Fence Maintenance	LF	260.000	260.000	
0058	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
0060	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0062	628.2008	Erosion Mat Urban Class I Type B	SY	275.000	275.000	
0064	628.6005	Turbidity Barriers	SY	150.000	150.000	
0066	629.0210	Fertilizer Type B	CWT	0.200	0.200	
8800	630.0120	Seeding Mixture No. 20	LB	10.000	10.000	
0070	630.0500	Seed Water	MGAL	10.000	10.000	
0072	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0074	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0076	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0078	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0800	642.5001	Field Office Type B	EACH	1.000	1.000	
0082	643.0420	Traffic Control Barricades Type III	DAY	1,360.000	1,360.000	
0084	643.0705	Traffic Control Warning Lights Type A	DAY	2,380.000	2,380.000	
0086	643.0900	Traffic Control Signs	DAY	935.000	935.000	
8800	643.5000	Traffic Control	EACH	1.000	1.000 60.000	
0090	645.0111	Geotextile Type DF Schedule A	SY	60.000		
0092	645.0120	Geotextile Type HR	SY	320.000	320.000 87.000	
0094	650.4500	Construction Staking Subgrade	LF	87.000 87.000		
0096	650.5000	Construction Staking Base	LF	87.000	87.000	
0098	650.6501	Construction Staking Structure Layout (structure) 01. B-60-0158	EACH	1.000	1.000	

09/27/2024 10:10:14

Estimate	Of C	Quantities
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8890-00-72

Page

1 :	14	Maria Danasiakian	11!4	T-4-1	04
Line	Item	Item Description	Unit	Total	Qty
0100	650.9911	Construction Staking Supplemental Control (project) 01. 8890-00-72	EACH	1.000	1.000
0102	650.9920	Construction Staking Slope Stakes	LF	87.000	87.000
0104	690.0150	Sawing Asphalt	LF	45.000	45.000
0106	715.0502	Incentive Strength Concrete Structures	DOL	2,270.000	2,270.000
0108	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0110	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0112	SPV.0090	Special 01. Flashing Stainless Steel	LF	147.000	147.000

REMOVING GUARDRAIL 204.0165	SALVAGED UNUSEABLE
BASE AGGREGATE DENSE & ASPHALT SUMMARY BASE BASE AGGREGATE AGGREGATE AGGREGATE AGGREGATE AGGREGATE ASPHALT ASPHALT	RIPRAP SUMMARY RIPRAP GEOTEXTILE HEAVY TYPE HR 606.0300 645.0120
RESTORATION SUMMARY SEEDING SALVAGED URBAN CLASS FERTILIZER MIX NO. TOPSOIL TYPE B TYPE B 20 SEED WATER 625.0500 628.2008 629.0210 630.0120 630.0500 630.0500 628.2008 629.0210 630.0120 630.0500 630.05	SILT FENCE SILT FENCE

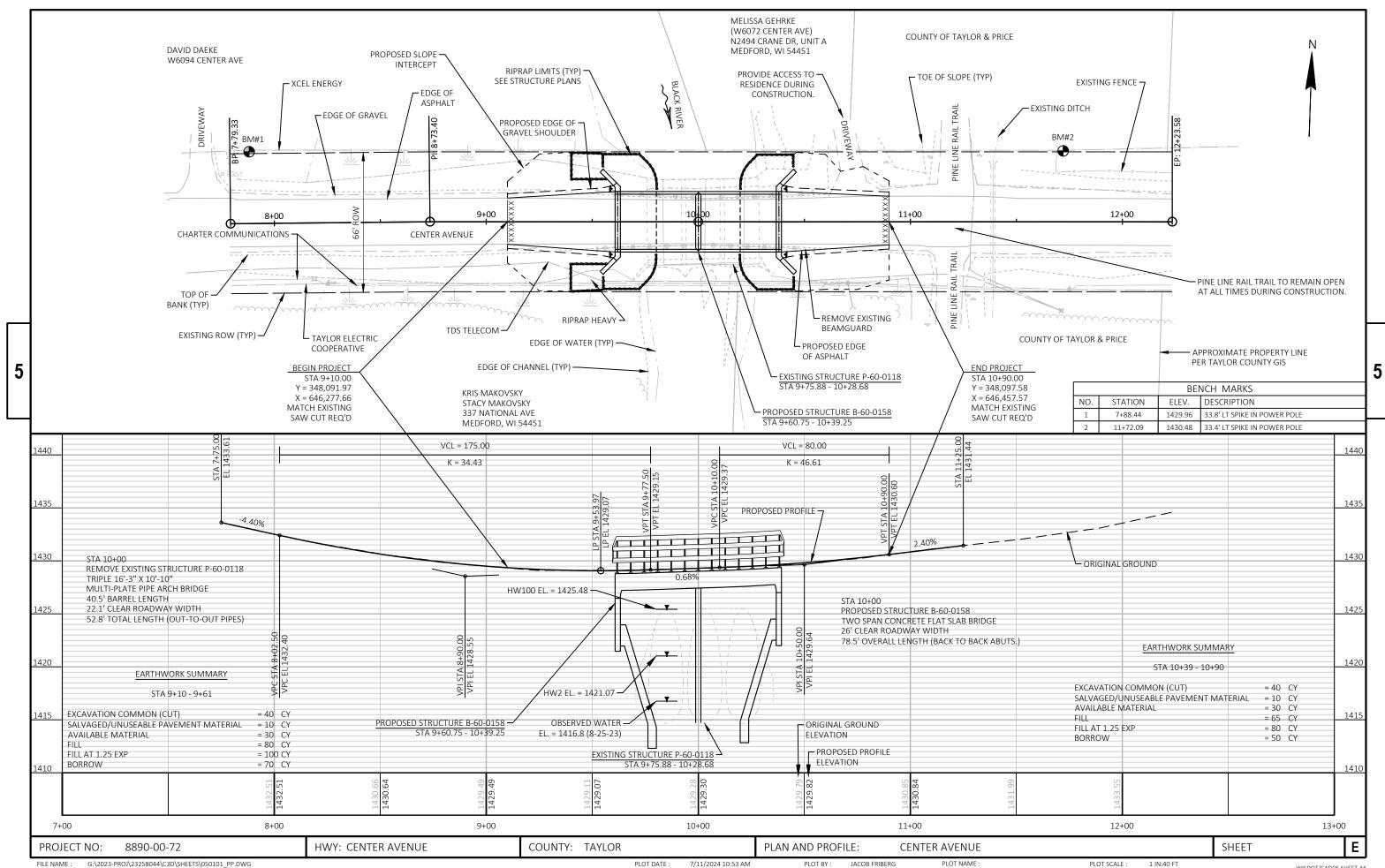
FILE NAME : G:\2023-PROJ\23258044\C3D\SHEETS\030101_MQ,DWG PLOT BY: JACOB FRIBERG PLOT NAME : 1" = 1'
LAYOUT NAME - MQ1

WISDOT/CADDS SHEET 42

TOTAL 0010 PROJECT	- 2 UNDISTRIBUTED	TOTAL 0010 150
	<u>SIGNING</u>	TRAFFIC CONTROL ITEMS
CATEGORY LOCATION 0010 B-60-0158 N 0010 B-60-0158 N 0010 B-60-0158 S TOTAL	W 1 3 1 1 W5-52L W 1 3 1 1 W5-52R E 1 3 1 W5-52R	TRAFFIC CONTROL TRAFFIC CONTROL TRAFFIC CONTROL CONTROL CONTROL TYPE III TYPE A SIGNS G43.0420 G43.0705 G43.0900 G43.0705 G43.0900 G43.09

					CONSTRUCTION		CONSTRUCTION
					STAKING	CONSTRUCTION	STAKING
				_	SUBGRADE	STAKING BASE	SLOPE STAKES
					650.4500	650.5000	650.9920
C	CATEGORY	STATION	TO	STATION	LF	LF	LF
	0010	9+10	-	9+54	44	44	44
	0010	10+46	-	10+90	43	43	43
				_			
				TOTAL 0010	87	87	87

PROJECT NO: 8890-00-72 HWY: CENTER AVENUE COUNTY: TAYLOR MISCELLANEOUS QUANTITIES SHEET **E**



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15С11-10в	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

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TYPICAL APPLICATION OF SILT FENCE

6

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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

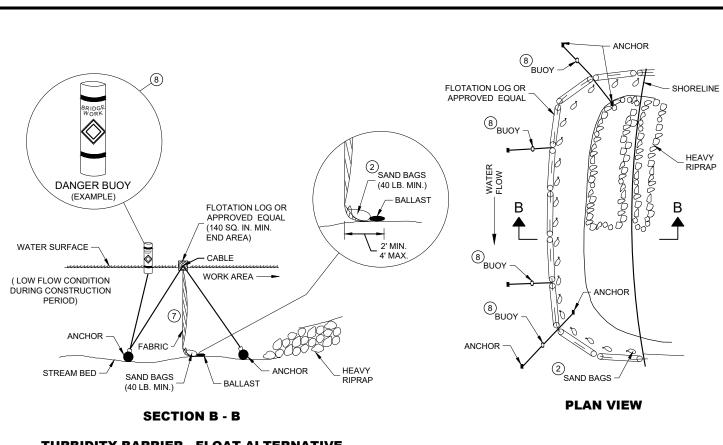
(WHEN REQUIRED BY THE ENGINEER)



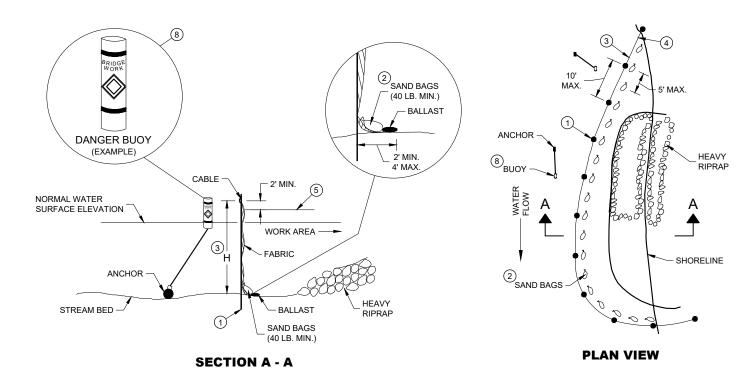
6

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D.D. 8 E 9-6



TURBIDITY BARRIER - FLOAT ALTERNATIVE CAUTION - SEE NOTE 6



TURBIDITY BARRIER - STANDARD POST INSTALLATION

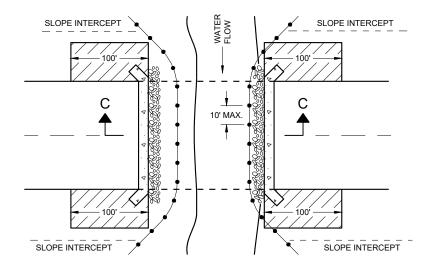
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

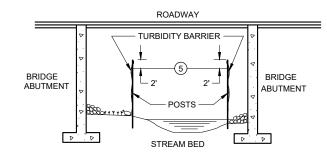
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

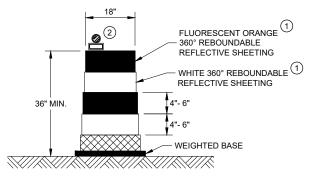
APPROVED May 2023 DATE WORK ZONE ENGINEER

Ò 0 Ŋ

SDD 15C11

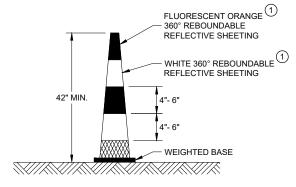
GENERAL NOTES

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



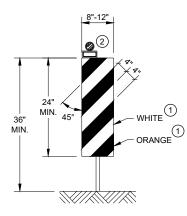
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



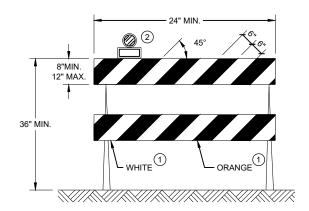
42" CONE

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



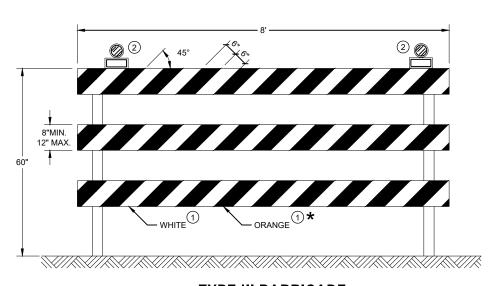
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

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





RURAL AREA (See Note 2)



GENERAL NOTES

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

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

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

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



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

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

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

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

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

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



ELEVATION VIEW

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



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42





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



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

HWY:

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

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

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

Ε

CUEET NO.

SHEET NO:

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

PROJECT NO:

COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

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



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

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

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

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

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

PROJECT NO:



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

DATE 2/05/15

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

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

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

CHANNEL

GENERAL NOTES

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

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

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

PROJECT NO:

VIEW FROM TOP

GENERAL NOTES

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

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

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Manher R

APPROVED

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

SHEET NO:

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

PROJECT NO:

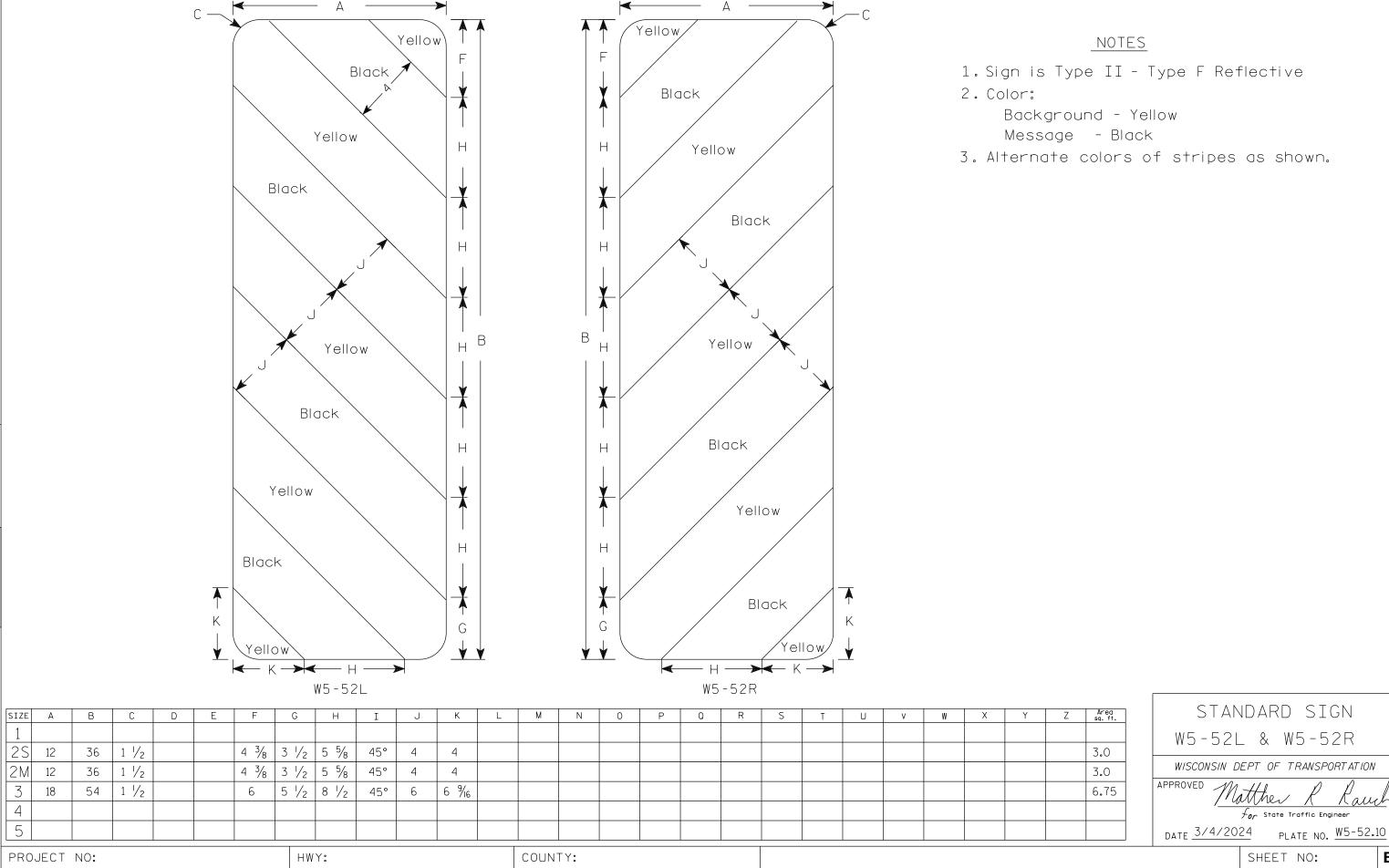
PLOT DATE: 19-APRIL 2022 11:55

SIGN

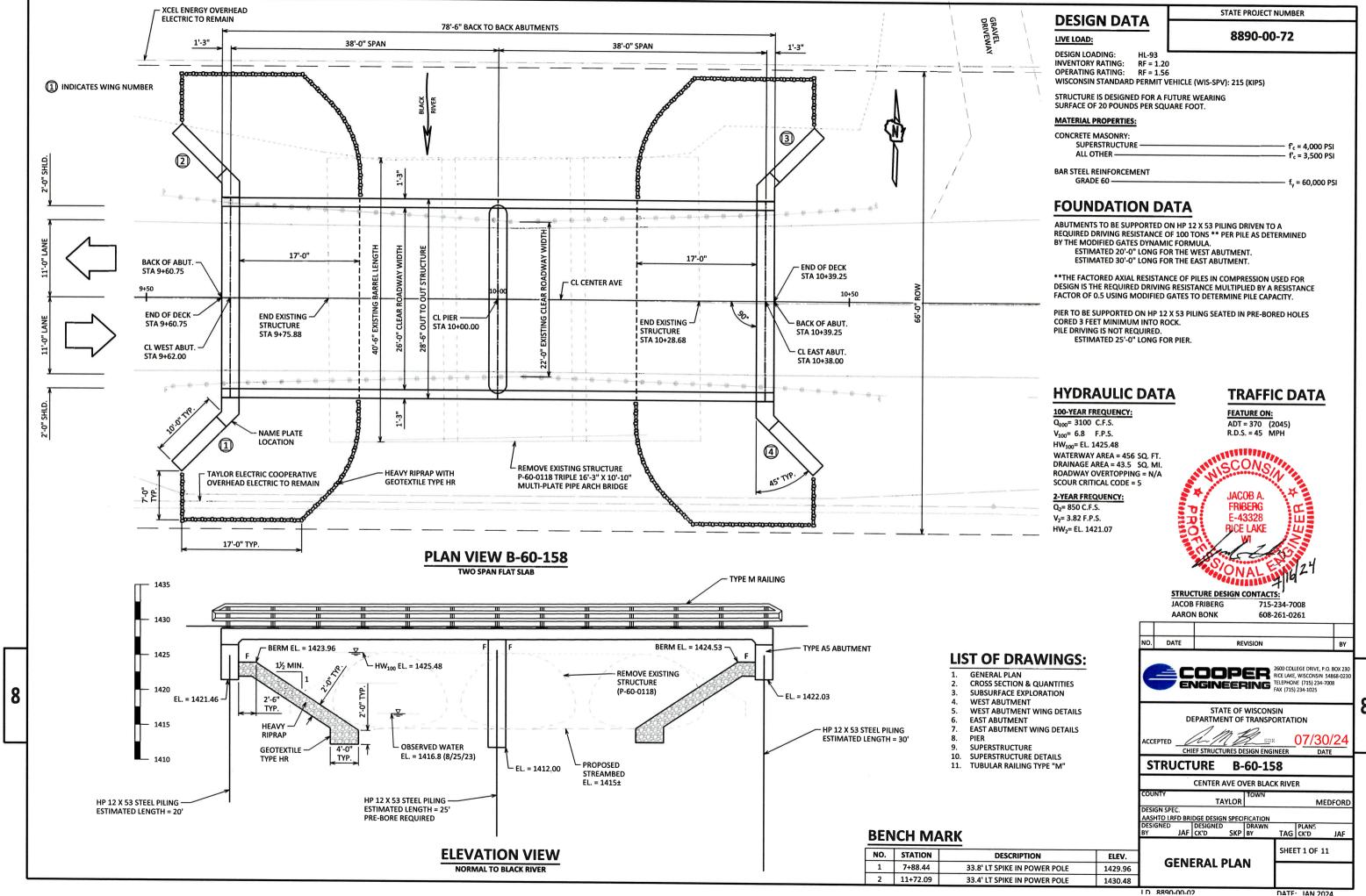
PLOT BY : dotc4c

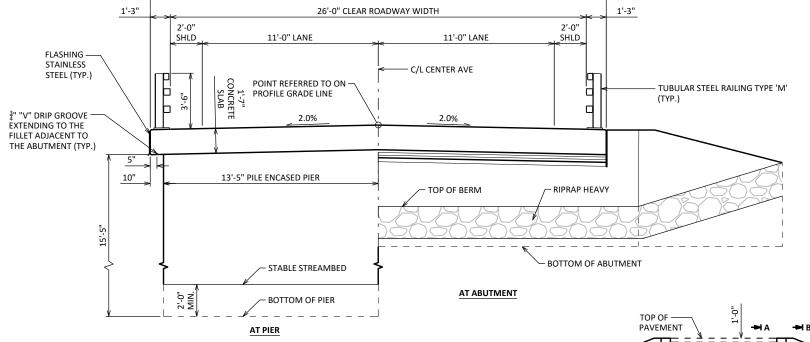
WISDOT/CADDS SHEET 42

Ε



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





175'-0" STA. 11+25. El. 1431.44 C/L CENTER AVE

TOTAL ESTIMATED QUANTITIES

FILLER

BRIDGE

SUPERSTRUCTURE

ABUTMENT - ROADWAY BACKFACE SUBSURFACE PAY LIMITS OF BACKFILL 🗘 ACKFILL STRUCTURE TYPE A 3'-0" "GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH.

CROSS SECTION THRU ROADWAY

LOOKING UPSTATION

(PILING NOT SHOWN FOR CLARITY)

ROADWAY

PAVEMENT

PROFILE GRADE LINE

TYPICAL SECTION THRU ABUTMENT

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

	<u> </u>							
BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	W. ABUT.	PIER	E ABUT.	TOTALS	
203.0220	REMOVING STRUCTURE (P-60-0118)	EACH					1	
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-60-0158	EACH					1	
210.1500	BACKFILL STRUCTURE TYPE A	TON		150		150	300	
502.0100	CONCRETE MASONRY BRIDGES	CY	135.6	26.9	37.8	26.9	227	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	291	15		15	321	
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2,165	1,790	2,165	6,120	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	28,145	1,620	55	1,620	31,440	
513.4061	RAILING TUBULAR TYPE M	LF	162				162	
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		6		6	12	
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF			78		78	
550.0500	PILE POINTS	EACH		7		7	14	
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF		140	150	210	500	
606.0300	RIPRAP HEAVY	CY		90		90	180	
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		135		135	270	
SPV.0090.01	FLASHING STAINLESS STEEL	LF	147				147	
	NON-BID ITEMS							
	 	1	1	i		i	1	

PROTECTIVE SURFACE TREATMENT LIMITS **PROTECTIVE SURFACE TREATMENT DETAILS**

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-60-0158" SHALL BE THE EXISTING GROUNDLINE.

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

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

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE

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

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

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

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED TOP OF SLAB, INCLUDING THE SLAB EDGE AND 1'-0" UNDER THE SLAB, THE TOP AND EXTERIOR EXPOSED FACE OF WINGS AND FRONT FACE OF ABUTMENT TO 1'-0" PAST THE EDGE OF SLAB.

ALL STATIONS AND FLEVATIONS ARE IN FEFT

ELEVATIONS SHOWN ON THE PLANS ARE REFERENCES TO THE NORTH AMERICAN VERTICAL **DATUM 1988 (NAVD88)**

THE COORDINATE SYSTEM FOR THIS PROJECT IS WISCONSIN COUNTY COORDINATE SYSTEM (WCCS) - TAYLOR COUNTY.

ABUTMENT BACKFILL DIAGRAM

= ABUTMENT BODY LENGTH AT BACKFACE (FT)

→A

ELEVATION

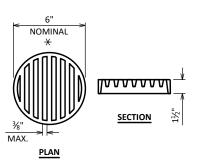
PLAN

→ B

SECTION A-A

SECTION B-B

- = AVERAGE ABUTMENT FILL HEIGHT (FT)
- = WING 1 HEIGHT AT TIP (FT) Н1
- = WING 2 HEIGHT AT TIP (FT) W = WING LENGTH (FT)
- = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
- = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)
- $= V_{CF}(EF)/27$
- $= V_{CY}(2.0)$



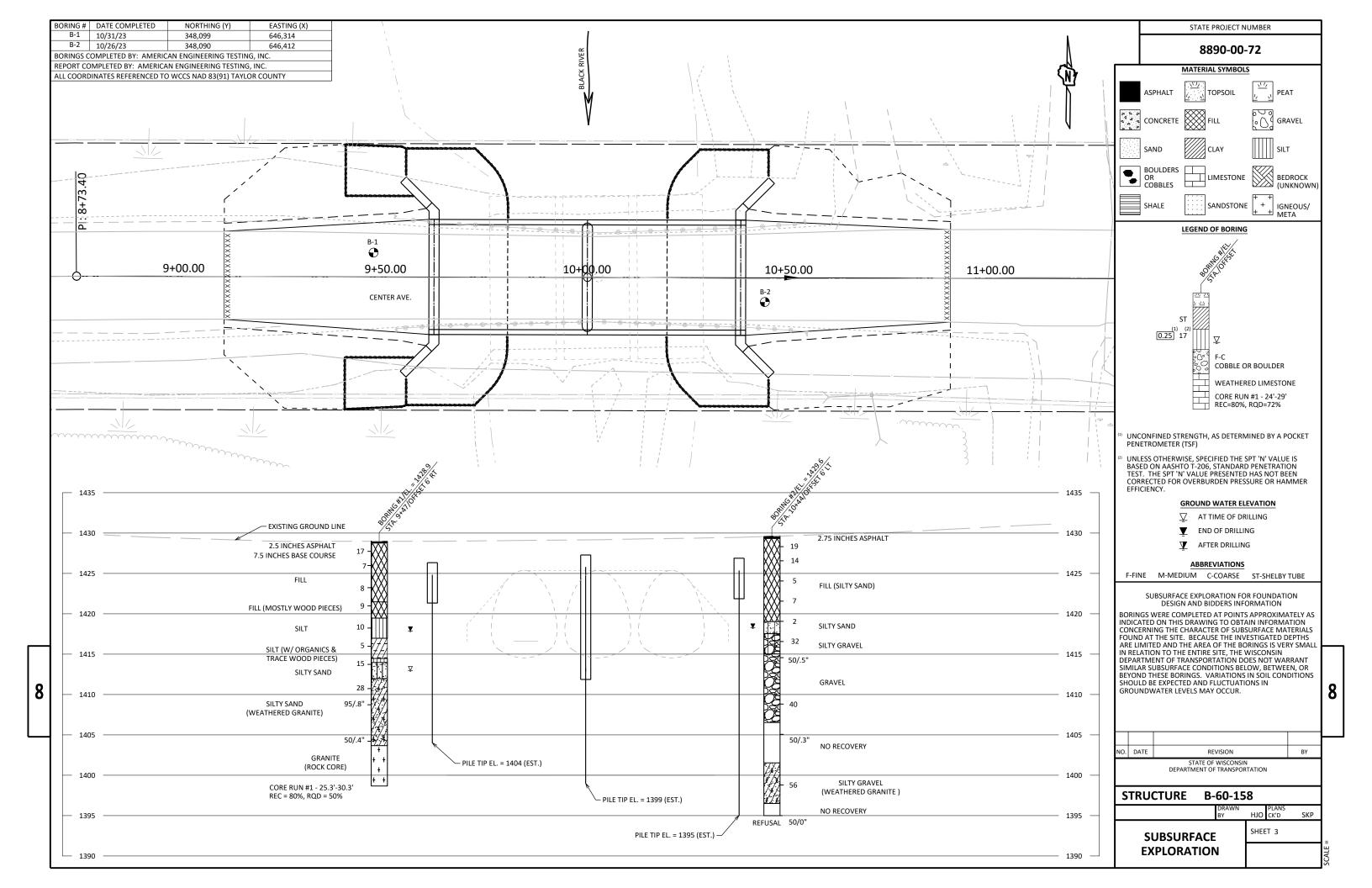
RODENT SHIELD DETAIL

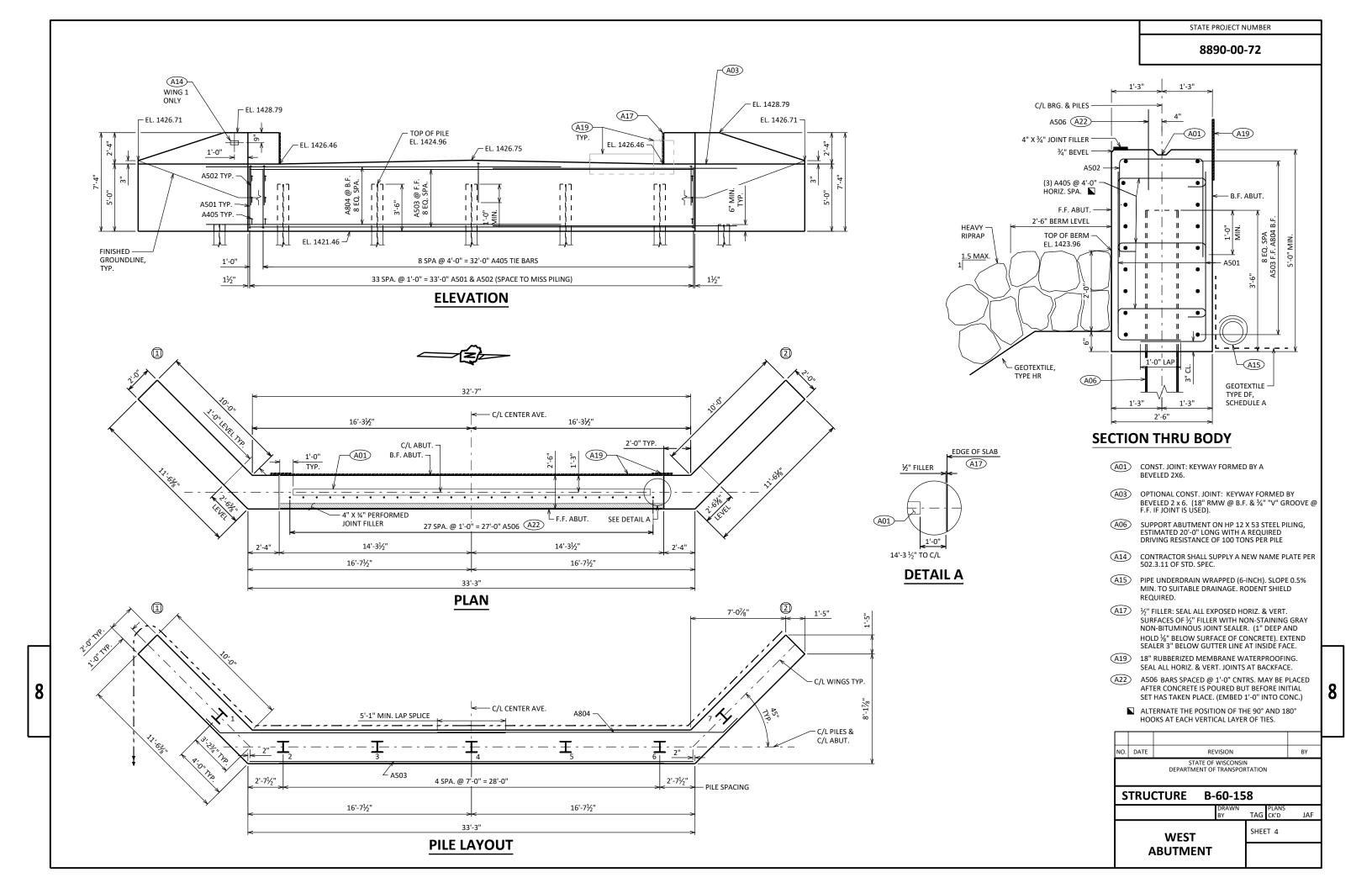
★ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

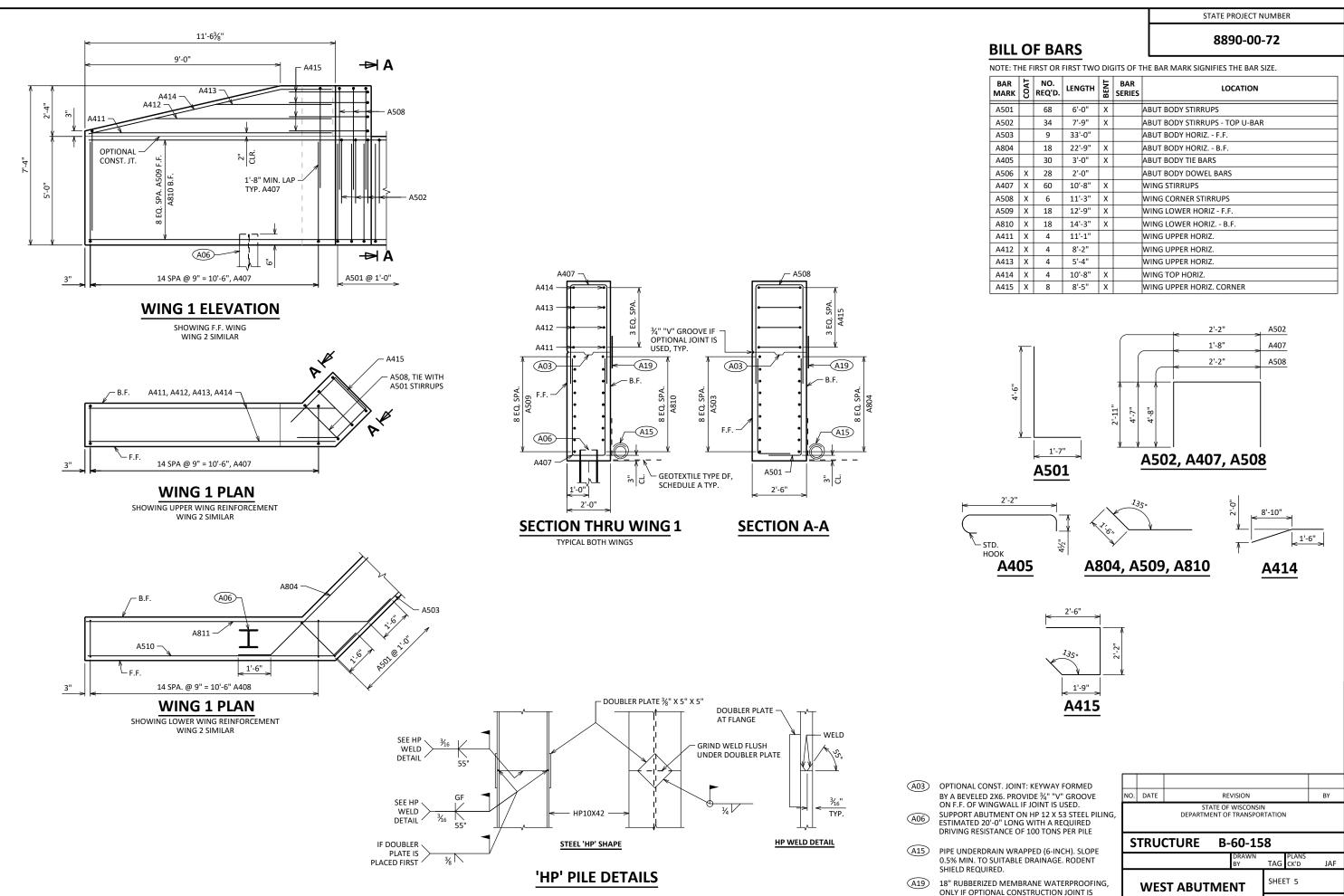
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

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

NO.	DATE	R		BY					
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
S	STRUCTURE B-60-158								
			DRAWN BY	TAG	PLANS CK'D	JAF			
	CRO	SS SECTIOI	SHEE	T 2					
	C	UANTITIES							





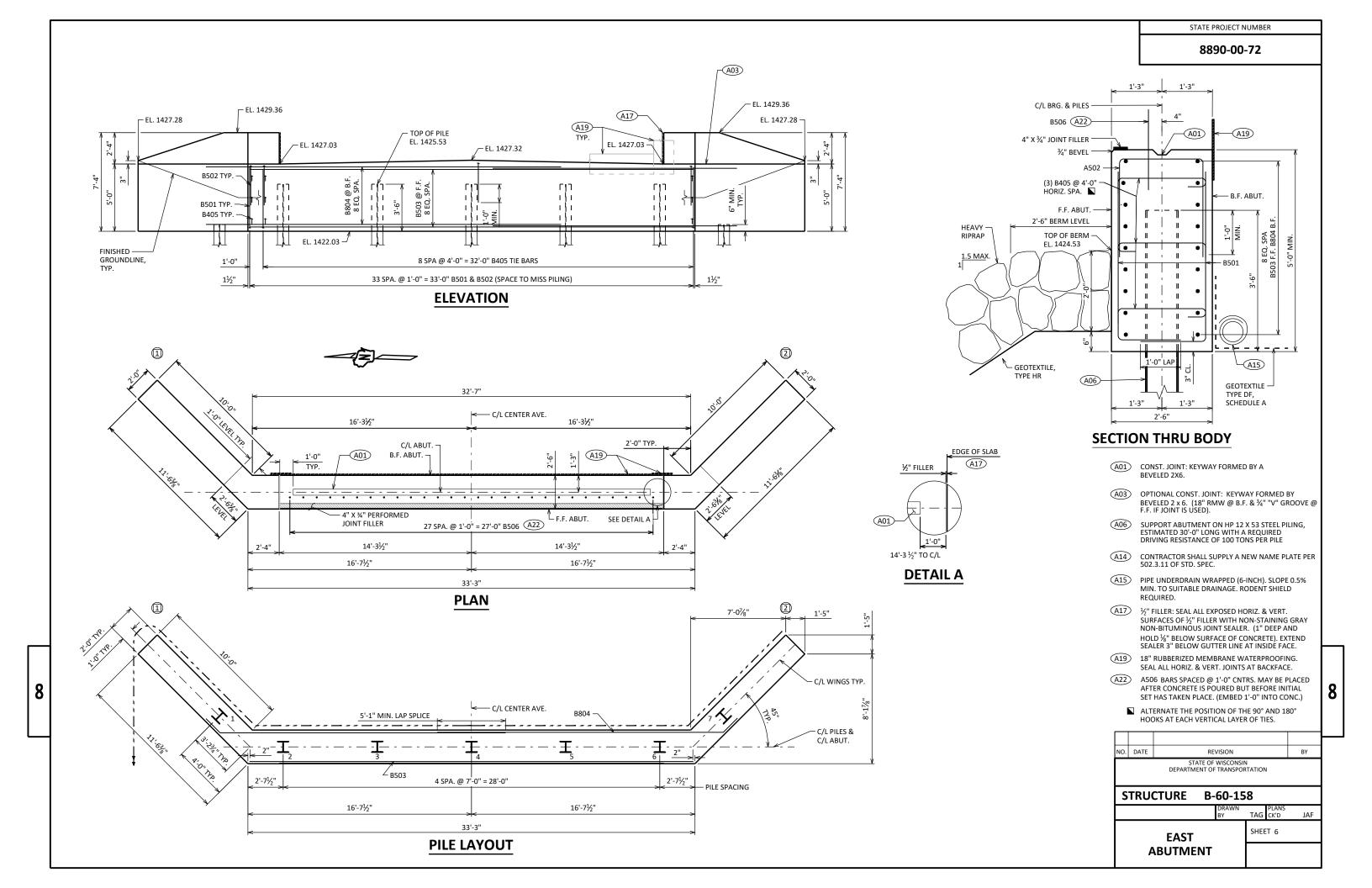


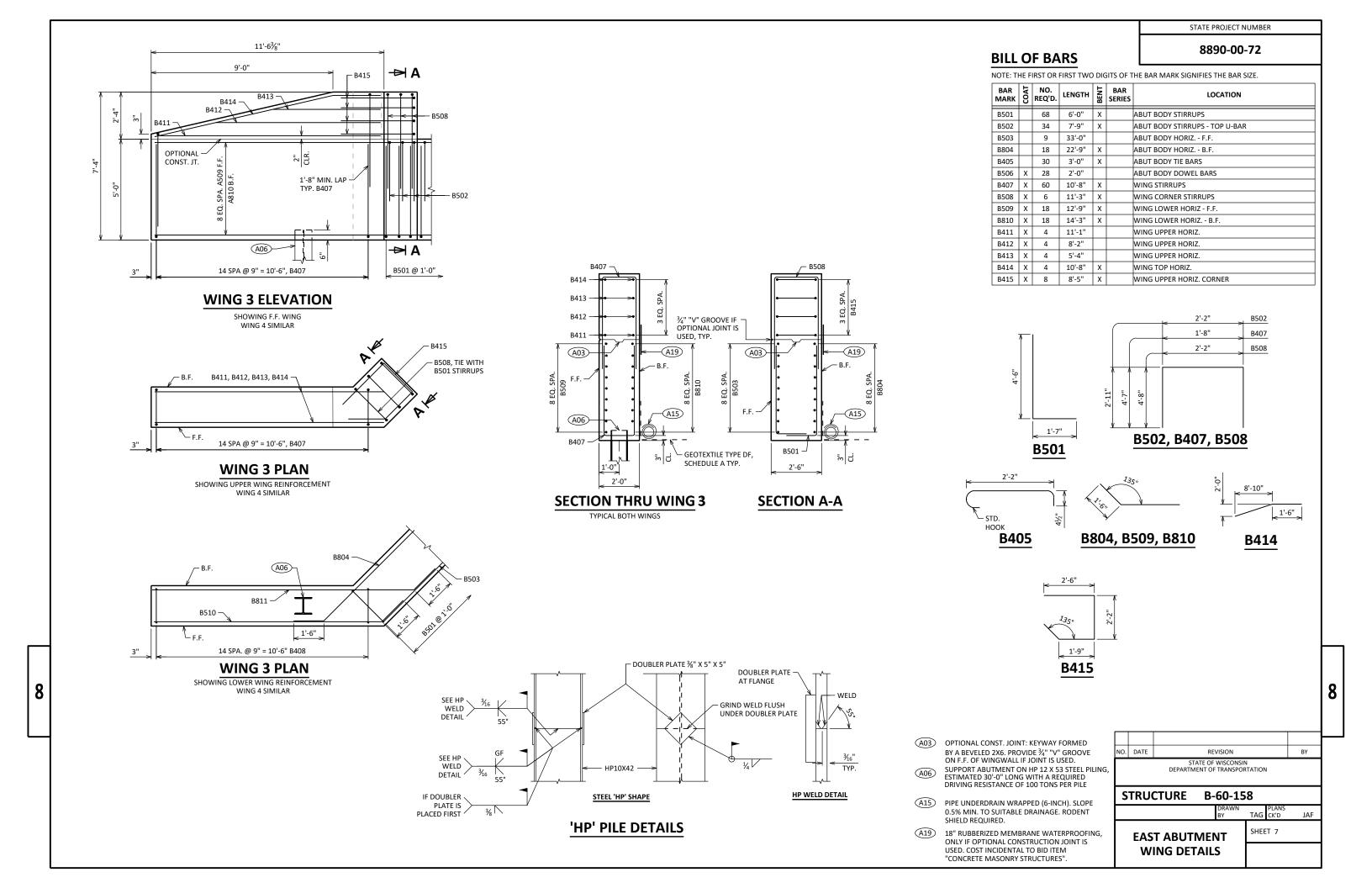
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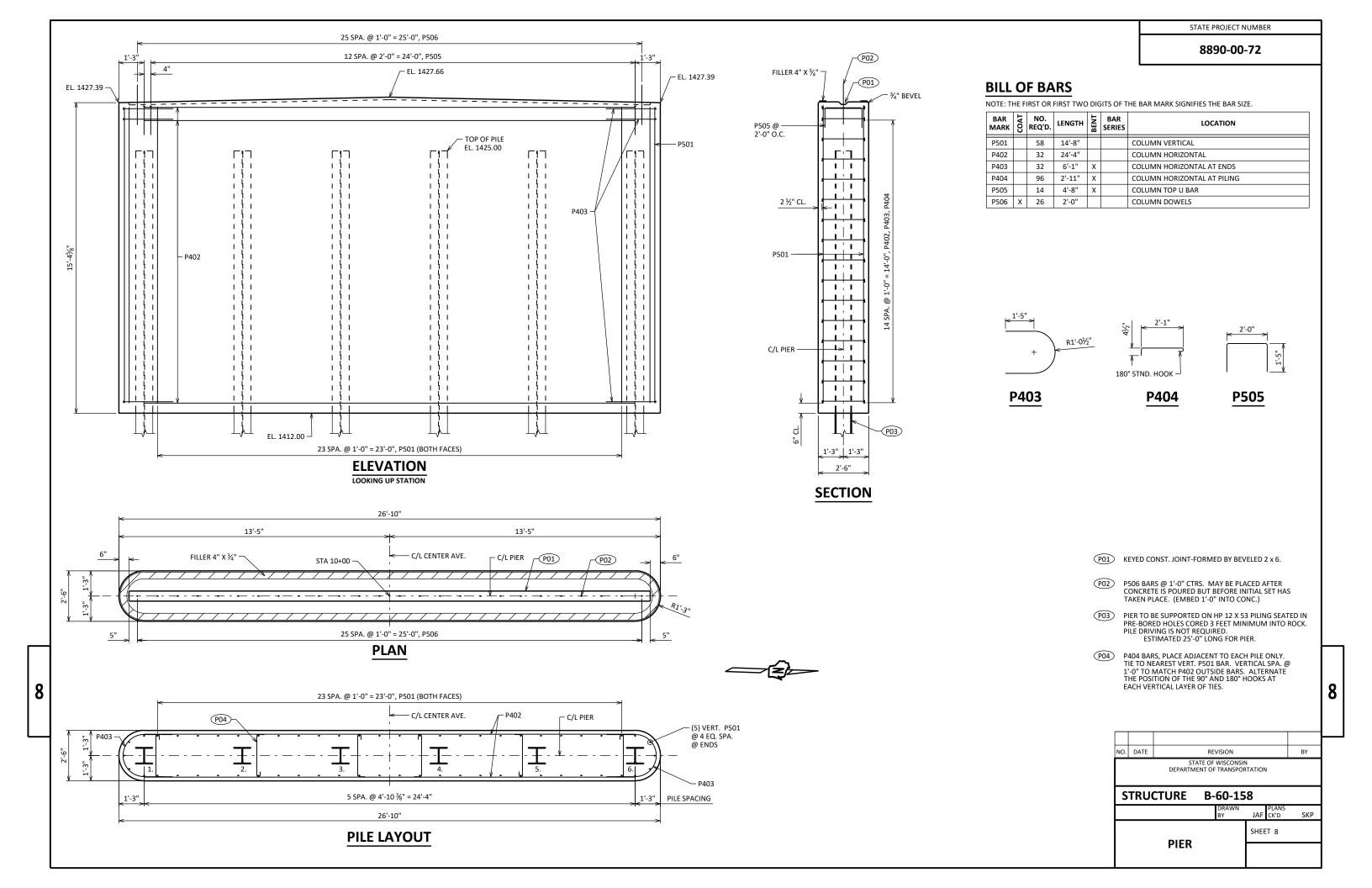
USED. COST INCIDENTAL TO BID ITEM

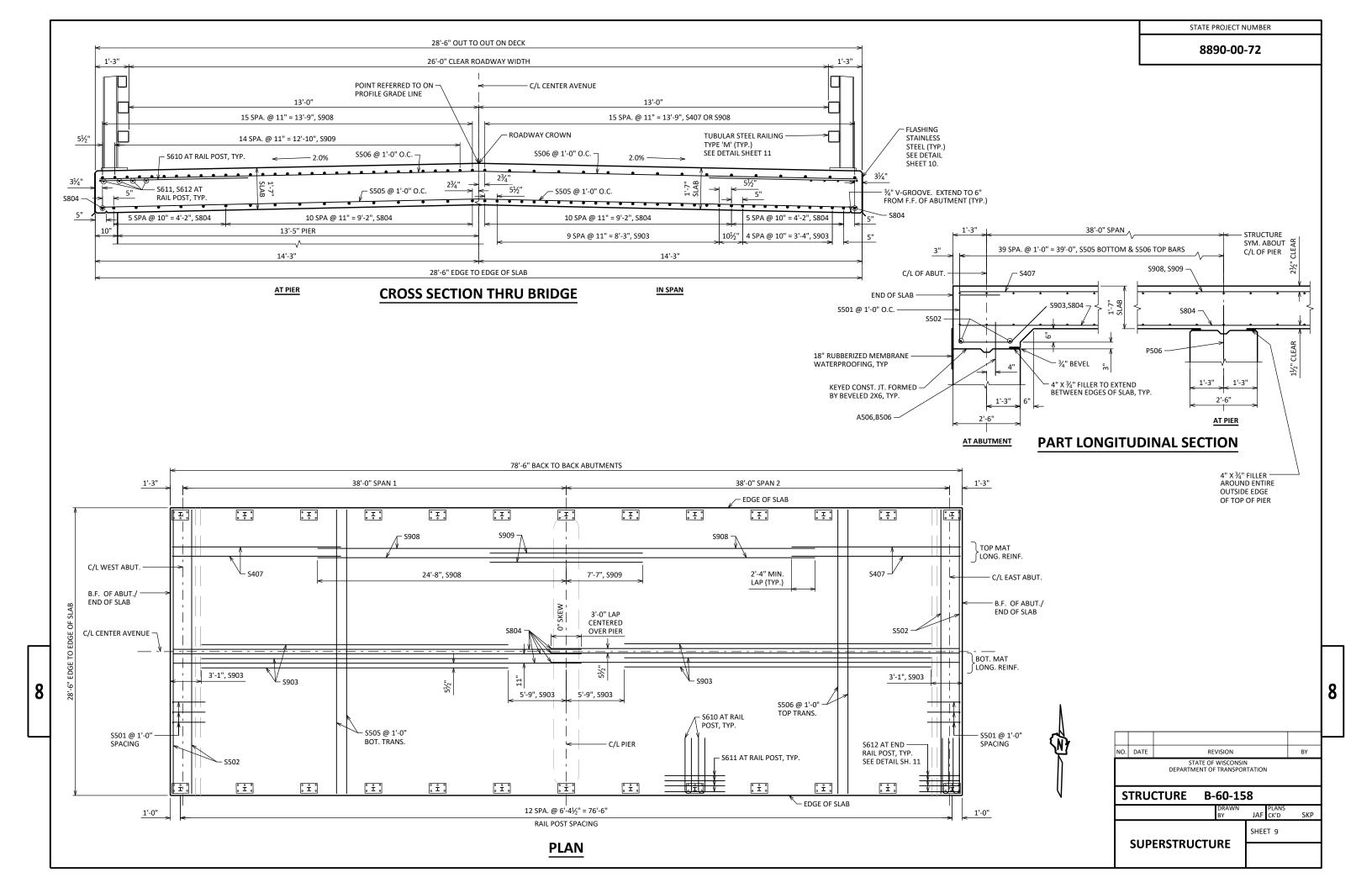
"CONCRETE MASONRY STRUCTURES"

WING DETAILS

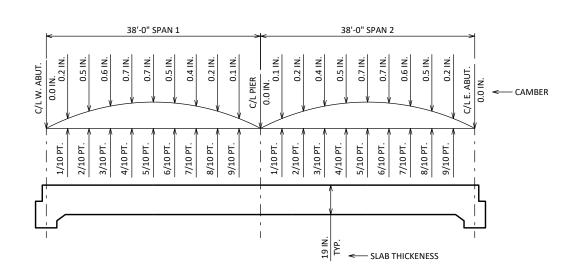


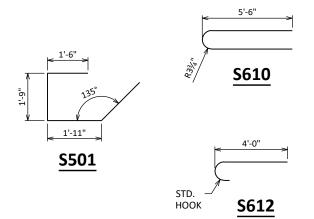






8890-00-72





BILL OF BARS

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

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S501	Х	58	7'-0"	Х		DIAPHRAGM @ ABUTS LONGIT.
S502	Х	4	28'-2"			DIAPHRAGM @ ABUTS TRANS.
S903	Х	60	30'-5"			SLAB BOTTOM LONGIT.
S804	Х	68	40'-6"			SLAB BOTTOM LONGIT.
S505	Х	79	28'-2"			SLAB BOTTOM TRANSVERSE
S506	Х	79	28'-2"			SLAB TOP TRANSVERSE
S407	Х	64	16'-9"			SLAB TOP LONGIT. AT ENDS
S908	Х	32	49'-4"			SLAB TOP LONGIT.
S909	Х	30	15'-2"			SLAB TOP LONGIT. OVER PIER
S610	Х	52	11'-2"	Х		SLAB, TRANS., 2 PER RAIL POST
S611	Х	88	6'-0"			SLAB, LONGIT., 4 PER RAIL POST
S612	Х	16	4'-8"	Х		SLAB, LONGIT., 4 PER RAIL POST AT ENDS

CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS.
CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED, EXCEPT FOR STAGED CONSTRUCTION.

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

TOP OF SLAB ELEVATION AT FINAL GRADE

LESS SLAB THICKNESS

PLUS CAMBER

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

EQUALS TOP OF SLAB FALSEWORK ELEVATION

TOP OF SLAB ELEVATIONS

SPAN	LOCATION	C/L BRG. W. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L PIER
	N. EDGE OF DECK	1428.79	1428.80	1428.82	1428.84	1428.86	1428.89	1428.91	1428.94	1428.97	1428.99	1429.02
1	CROWN OR R/L	1429.08	1429.09	1429.10	1429.12	1429.15	1429.17	1429.20	1429.23	1429.25	1429.28	1429.30
	S. EDGE OF DECK	1428.79	1428.80	1428.82	1428.84	1428.86	1428.89	1428.91	1428.94	1428.97	1428.99	1429.02

SP	AN	LOCATION	C/L PIER	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L BRG. E. ABUT.
		N. EDGE OF DECK	1429.02	1429.04	1429.07	1429.10	1429.12	1429.16	1429.19	1429.23	1429.27	1429.31	1429.36
	2	CROWN OR R/L	1429.30	1429.33	1429.35	1429.38	1429.40	1429.44	1429.48	1429.51	1429.55	1429.60	1429.65
		S. EDGE OF DECK	1429.02	1429.04	1429.07	1429.10	1429.12	1429.16	1429.19	1429.23	1429.27	1429.31	1429.36

DECK FLASHING NOTES

FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE TREATMENT APPLICATION.

CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.

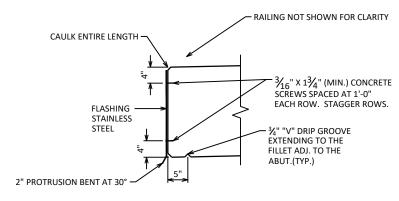
EXTEND FLASHING TO B.F. ABUTMENT DIAPHRAGM.

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

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

PROVIDE 2" MINIMUM FLASHING OVERLAP, FASTEN WITH $\frac{3}{16}$ " X 2" (MIN.) CONCRETE SCREWS.

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



EDGE OF DECK FLASHING DETAIL

SURVEY TOP OF SLAB ELEVATIONS

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

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

NOTES

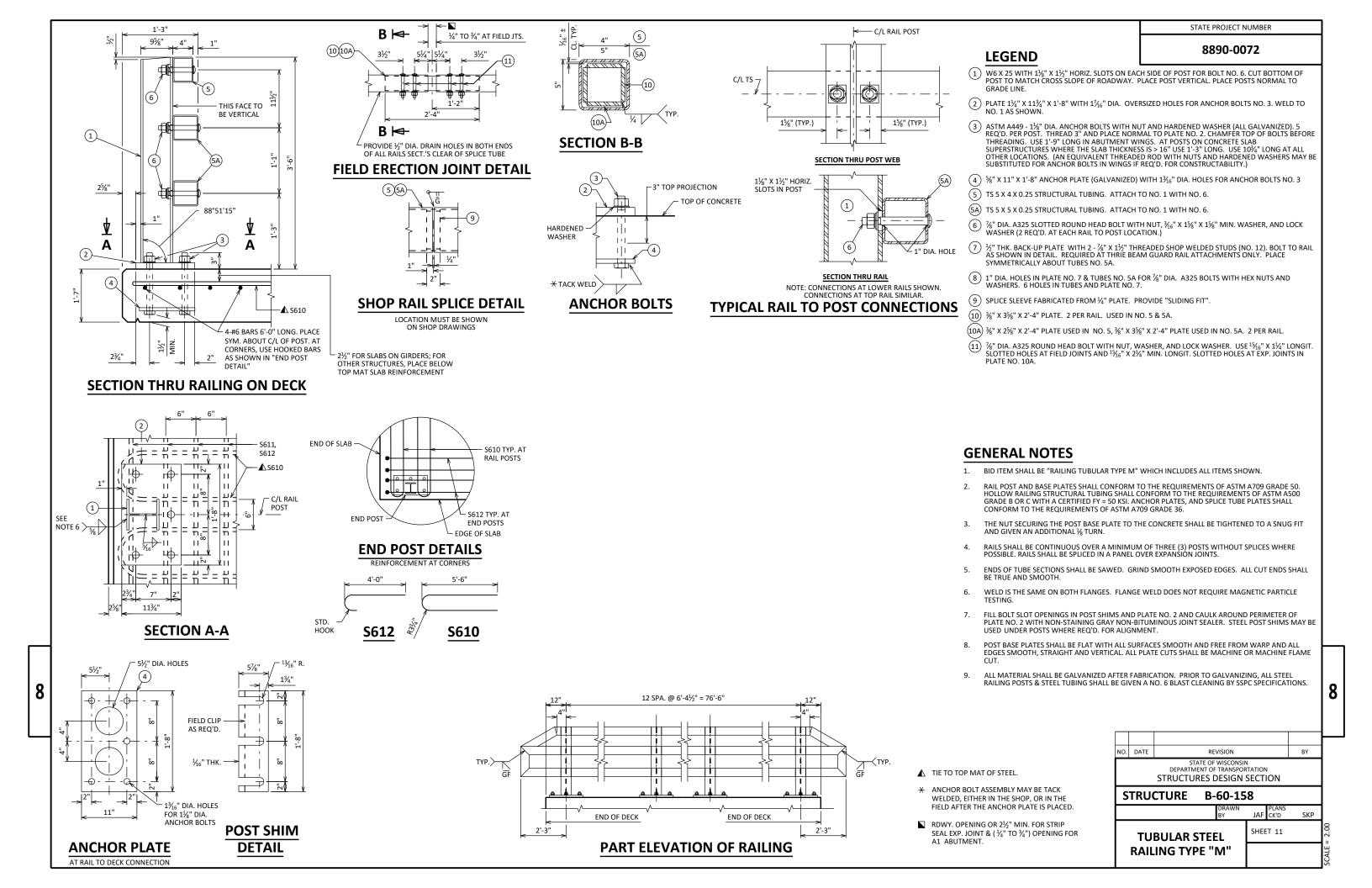
FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FOR EACH SPAN ON AS BUILT PLANS.

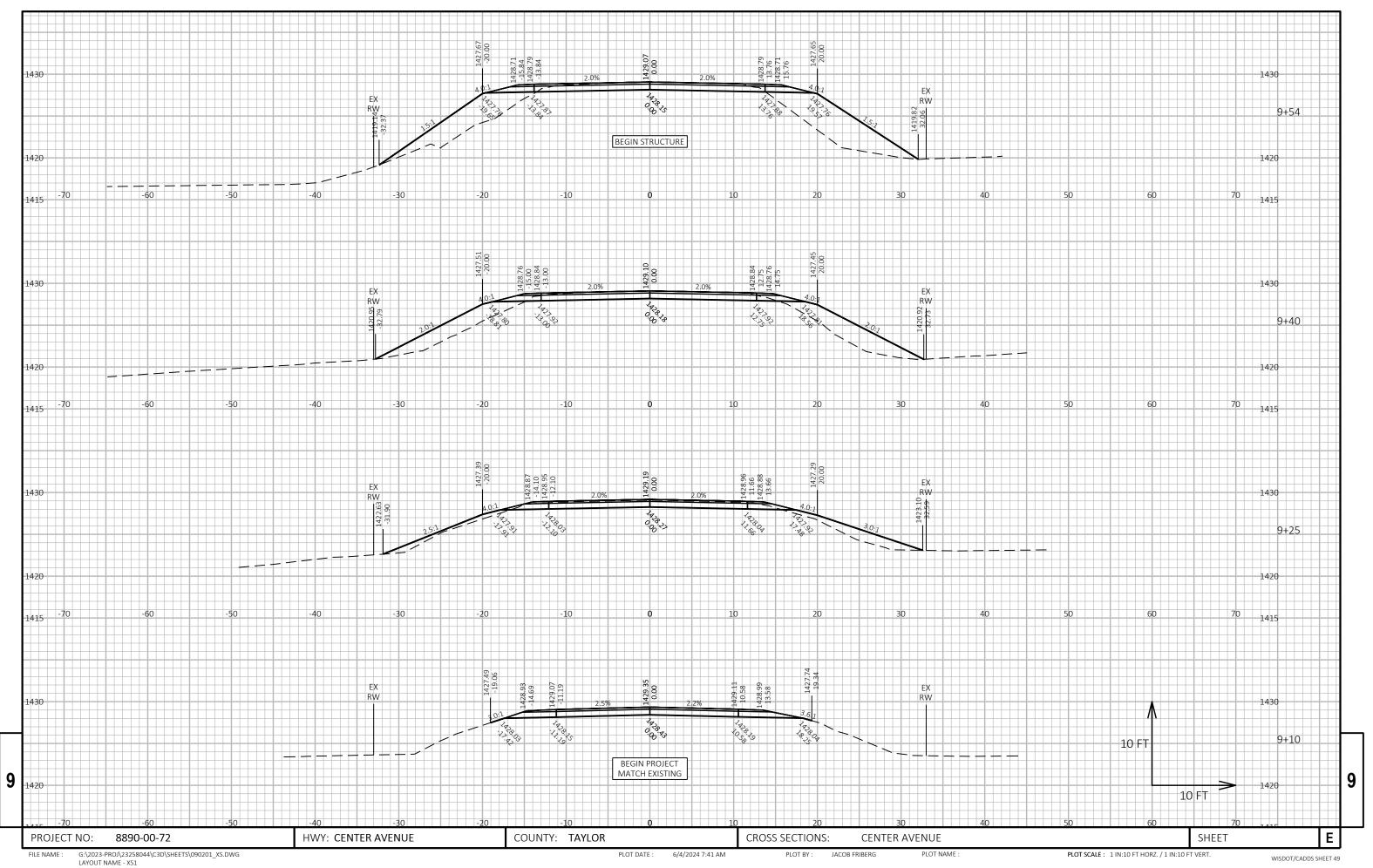
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS

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

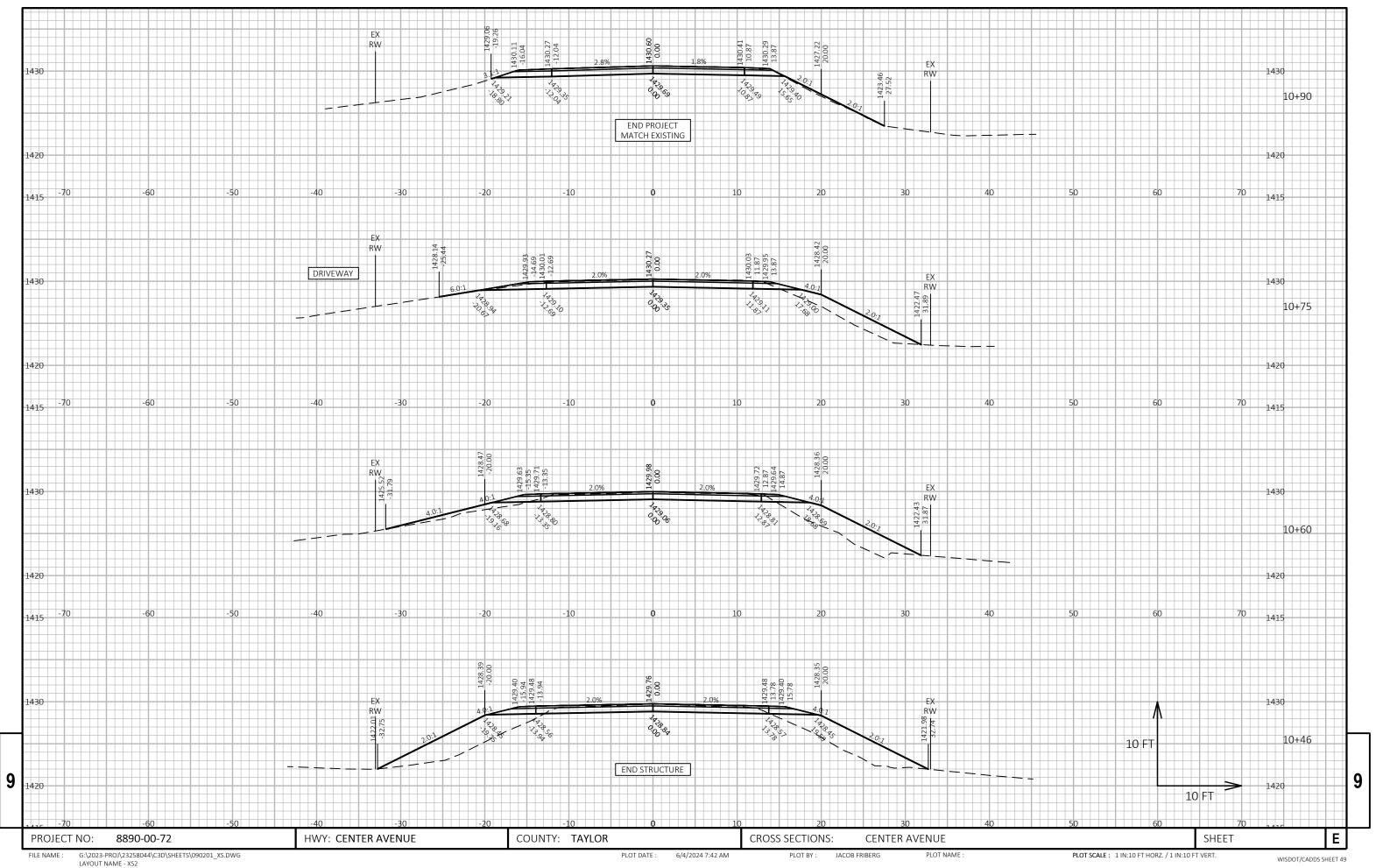
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		DETAILS								

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LATOUT NAIVIE - ASI



Notes



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