Date: November 18, 2024

To: Michael Hoelker, P.E. Director, Bureau of Project Development Attn: Bill Strobel, P.E. Design Oversight and Standards Chief

From: Paul Conlin P.E. Project Development Chief Northwest Region

Subject: PERPETUATION DESIGN STUDY REPORT Project I.D. (design) 8680-00-04 Superior – Wentworth Bong Bridge B-16-0038-0001 to 0019 USH 2 Douglas County

Having considered the economic and social effects of this project, its impact on the environment, and its consistency with the goals of community planning, we request your approval of the attached design study report.

Region Project Development Chief

Date

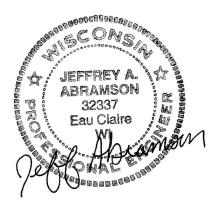
Concur:

Bureau of Project Development,
Design Oversight and Standards Services Chief

Date

PERPETUATION STUDY REPORT

Project I.D. (design) 8680-00-04 (construction):8680-00-74 Superior – Wentworth Bong Bridge B-16-0038-0001 to 0019 USH 2 Douglas County



Prepared By:



3433 Oakwood Hills Parkway Eau Claire, WI 54701-7698 715.834.3161 • Fax: 715.831.7500 www.AyresAssociates.com

PERPETUATION DESIGN STUDY REPORT

1.0 Project Description and Need

1.2 Project Length and Termini

Project Length: 2.538 miles Termini/Limits: (13,400 ft)

The project is located on USH 2 over the St. Louis River in Douglas County, WI and St. Louis County, MN. USH 2 is an east/west rural/urban interstate highway functionally classified as a principal arterial and is a vital link connecting Wisconsin to Minnesota. The project includes bridge preventative work to B-16-0038. The project is located in Section 16, T49N, R14W (WI) and Section 7,8,17,18 T49N R14W (MN). See **Attachment 1: Project Location Map**

1.3 Existing Roadway Information

Roadway	Functional Class (Principal or Minor Arterial, Collector or Local)	Surrounding Development Type? Rural, Urban or Transitional	Corridors 2030 or Backbone (No or State Which)	NHS Route (Yes or No)	Long Truck Route (No or State Federal or State)	Access Control Tier	On Ped. Trans. Plan (Yes or No)	On Bike Trans. Plan (Yes or No)
USH 2	Principal Arterial	Urban	No	Yes	State	1	Yes	Yes

Comments:

This segment of USH 2 is part of the OSOW Route.

1.4 Need for Project

USH 2 is an urban principal arterial roadway connecting Wisconsin to Minnesota. (Attachment 1: Project Location Map) This portion of USH 2 is a four-lane urban highway with two 12-foot lanes in each direction. Paved shoulders vary from 6-10 feet wide. There is median concrete barrier located throughout the project limits.

This portion of USH 2 is:

- Classified as part of the National Highway System.
- Classified as a State Long Truck Route.
- Classified as being part of the Oversize/Overweight Freight Network.

USH 2 average annual daily traffic (2021) is 17,900 vehicles. Heavy truck traffic accounts for 7% of the traffic. USH 2 carries a mix of local, regional, commercial, and tourism traffic. The speed limit within the project corridor is 55 mph. There are no proposed permanent changes to the speed limit.

Project History on this portion of USH 2:

- 1979-1984: New Bridge constructed
- 2014 & 2015: Structure Rehabilitation Mill and overlay with joints and steel structure painting

Need:

Bridge Deficiencies

The existing USH 2 bridges over the St. Louis River are showing signs of distress such as rust spots, chipping painting, concrete spalling of the bridge piers and degrading joint seals. Existing light bases on the MN half of the structure and WI approach are rusted and failing. The National Bridge Inventory (NBI) condition rating for structure B-16-038-0001-0019 from 2024 was determined to be 6 – Satisfactory.

A multi-year closure and replacement of the USH 53 / I-535 structure (Blatnik Bridge) will begin in 2026/2027. Traffic will be detoured to use the USH 2 Bong Bridge. Due to the significant increase of traffic that will be using the USH 2 Bong Bridge, no maintenance to the USH 2 structure is expected to be able to be performed from 2026 – 2031/2032. This anticipated work has sped up the need for preventative maintenance.

1.5 Proposed/Selected Alternative (State the Improvement Type and add brief description).

The proposed project is a Bridge Preventative (BRPVTV) project. The proposed project is to spot paint the existing steel arch structure of the center span, spot concrete surface repair of the 2 piers that support the center steel arch structure, street lighting replacement on the MN half of the structure including MN ramps (including median barrier wall and base), street lighting replacement on the WI approach (including median barrier wall and base), remove and replace the three rubber strip seals of the center tied arch, apply a MMA (Methyl Methacrylate) flood seal concrete sealer, and new pavement marking on the entire bridge, ramps, and WI approach.

2.0 Existing Facility Information

2.1 Posted Speed

Roadway or Roadway Segment	Posted Speed (MPH)	Advisory Speed (MPH)
USH 2	55	N/A

Comments:

2.4 Cross Section(s) Information

See Attachment 2 – Existing and Proposed Typical Sections

2.7 Structures

Existing Structure I.D. #	Feature Crossed	Structure Type	Sufficiency Rating	Clear Roadway Width*	Railing Type
B-16-0038-0001 to 0019	St. Louis River	Steel Arch - Tied	87.4	35' (typ) each direction	Sloped Face Parapet

* Controlling Criteria for Design Speed ≥ 50 mph Comments:

3.0 Traffic Information

3.1 Traffic Volumes/Conditions

Roadway or Roadway Segment	AADT ⁽¹⁾
USH 2	17,900 (2021)

No

No

Х

Yes

Yes

⁽¹⁾AADT = Average Annual Daily Traffic

3.2 Safety and Operations Analysis

Were any safety issues identified?

Were any operational issues identified?

Describe an	y existing	safety	issues th	nat exist	within t	the pro	ject limits	and an	y other	comments:

None

Describe any existing operational issues that exist within the project limits and any other comments:

None

4.3 Design Justifications (DJs)

4.3.1 Controlling Criteria Design Justifications (DJs)

None

4.3.2 Non-Controlling Criteria Design Justifications (DJs)

None

5.0 Proposed Design Improvements

5.1 Improvement Type:

The project is categorized as Bridge Preventative (BRPVTV). Legislative Subprogram 303 – State Highway Rehabilitation. See **Attachment 3 – Preliminary Plan Sheets**

Has an Intersection Control Evaluation (ICE) evaluation been completed (Yes or No)? No

5.5 Proposed Cross Section/Pavement Structure Information See Attachment 2 – Existing and Proposed Typical Sections

5.7 Structure Improvements Information

5.7.1 Bridge Structures

Structure I.D. #	Location	Structure Type	Length	Clear Width*	No. of Spans	Vertical Clearance*	Horizontal Clearance*
B-16-0038-0013	St. Louis River	Steel Arch - Tied	500	70	Sloped Face Parapet	19.9 ft	3' LT 6' RT
	Proposed	Improvement: Preventative)				

* Controlling Criteria for Design Speed ≥ 50 mph Comments:

5.8 Permanent Traffic Control Information

Will permanent signs be installed? Yes X No

5.9 Safety and Operations

Safety Countermeasures/Enhancements

Describe any safety improvements being made to address existing crash issues. Include any other enhancements that are being made that will improve safety.

Safety enhancements include:

- Structure Improvements
- Improved bridge surface
- New pavement marking

• Partial street lighting replacement

Operational Improvements

Describe features expected to improve operations on the facility. Include information from the Operations Certification Summary, if one was completed for the project.

N/A

5.11 Utilities

Is Project Trans 220 Utility Project (Yes or No)? Yes

Describe any special design features to accommodate utilities:

None

Major Utility Agreements:

None

Comments:

5.13 Financing and Scheduling Information

		Type of Funding					
Construction I.D.	Cost Estimate	% Fed. ¹⁴	% State	% Local	Proposed Timeframe for Construction	Ties to Other Work or Projects	Alternative Contracting (Yes or No)
8680-00-74	\$3,500,000	90	10	0	2025	N/A	No

х

¹⁴Fed. = Federal

Does Project Require a State/Municipal Agreement?

Yes	No

X No

No

Yes

Yes

There will be a cost share agreement with the State of Minnesota.

5.14 Unique Project Features

5.14.1 Does Project Require any Hazardous Material Remediation?

Comments:

5.15.2 Does Project contain any Environmental Commitments?

Comments:

See Attachment 4: Environmental Commitments Basic Sheet

6.0 Synopsis

Reports, Documents and Coordination	Completion/ Approval Dates (xx/xx/xxxx)	Status of Coordination or Other Information as Needed
Concept Definition Report (CDR)	3/20/2024	Complete
Safety (and Operations) Certification Document	11/7/2023	Complete

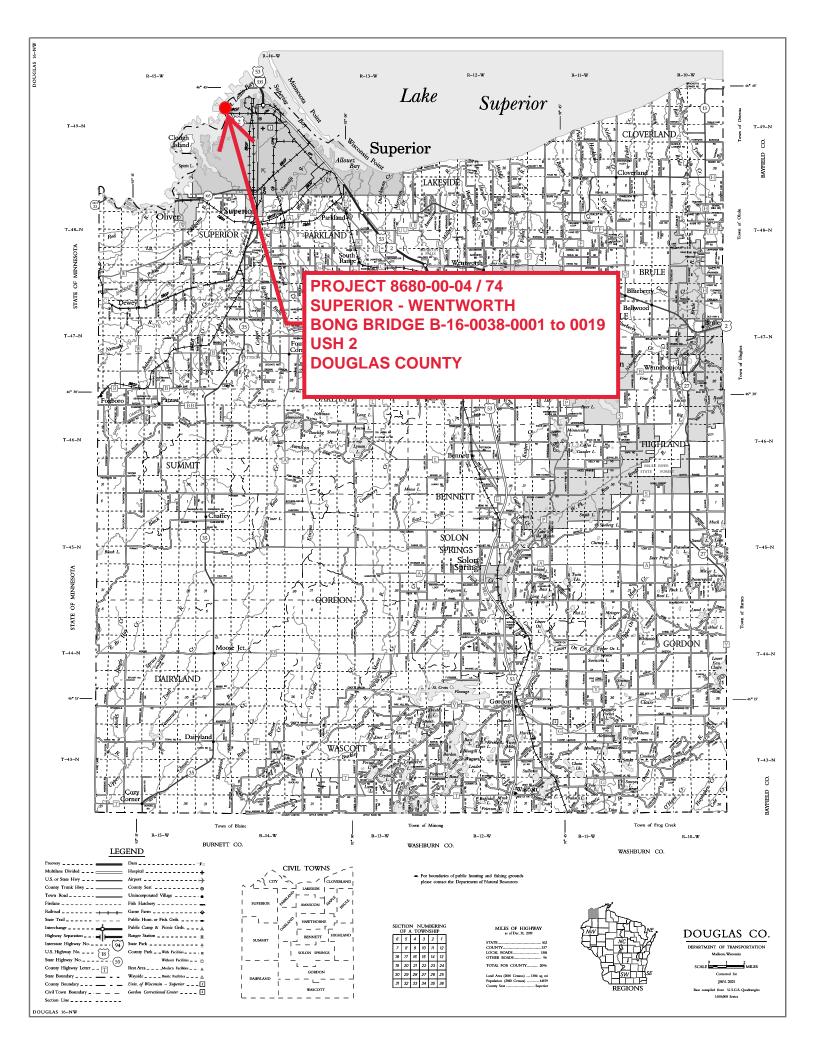
Bureau of Structure Certification Document (BOSCD) (if needed)	10/31/2023	Complete
Signed Pavement Design Report (PDR)	N/A	Is not required for the project.
Public Involvement Plan (PIP)	8/8/2024	Initial PIP approved
Structure Survey Report (SSR) (if needed)	11/1/2024	Submitted
Public Information Meeting(s) (PIM(s))	8/21/2024	Complete
Signed State Municipal Agreement(s) (SMA(s)) (if needed)	N/A	Is not required of the project. An agreement with MN is required.
Native American Lands of Interest (NALI) Scoping Determination	N/A	Is not required of the project.
Final Scope Certification Document Approval (FSC)	3/19/2024	Completed
SHPO Coordination Acceptance (Section 106, etc.) (SHPO)	3/25/2024	See Attachment 5: Section 106 – Screening List
DNR Coordination Acceptance (401 Cert., etc.) (DNR)	8/9/2024	Coordination is ongoing
Preliminary Plan Review Complete (PPRC)	11/20/2024	Ongoing
Preliminary Structure Plan Review Complete (PSPRC) (if needed)	11/1/2024	Submitted
DNR Approved Materials Handling plan for hazardous materials to be remediated during construction (if needed)	N/A	Is not required of the project.
Bridge asbestos inspection report for bridge work that will require an asbestos notification to WDNR or WDHS (if needed)	8/5/2024	No asbestos containing material identified
Signed Environmental Document (ED) (Type: CEC)	9/30/2024	Complete
Interstate Access Justification Report (IAJR)	N/A	Is not required of the project.
Transportation Management Plan (TMP(s)) (Type: 2)	11/18/2024	60% signed
Freight/ OSOW Accommodations Coordination (FOAC)	N/A	Is not required of the project.
Roadside Hazard Analysis Sheet (RHA) (if needed)	N/A	Is not required of the project.
Drainage Design Report (DDR) (if needed)	N/A	Is not required of the project.
Status of Statutory Actions (SSA) (if needed)	N/A	Is not required of the project.

Comments:

7.0 Attachments

- Attachment 1: Project Location Map
- Attachment 2: Existing Typical Cross Sections / Proposed Typical Cross Sections
- Attachment 3: Preliminary Plan Sheets
- Attachment 4: Environmental Commitments Basic Sheet
- Attachment 5: Section 106 Screening List
- Attachment 6: 60% Traffic Management Plan

Attachment 1 Project Location Map



Attachment 2 Existing Typical Cross Section / Proposed Typical Cross Section

GENERAL NOTES

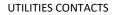
WORK CONSIST OF TRAFFIC CONTROL, CONTAINMENT ENCLOSURE ERECTION, ABRASIVE BLASTING SURFACE PREPARATION, APPLICATION OF NEW COATING SYSTEM FOR ALL STRUCTURAL STEEL, METHACRYLATE FLOOD SEAL AND PAVEMENT MARKING OF PROJECT BRIDGE.

ENCLOSURE AND MATERIALS SHALL BE MAINTAINED TAUT AND IN SUCH A MANNER THAT IT WILL NOT OBSTRUCT/DISTRACT THE VIEW OF OR SNAG ON ANY PASSING VEHICLES.

USH 2 WILL BE KEPT OPEN TO A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES.

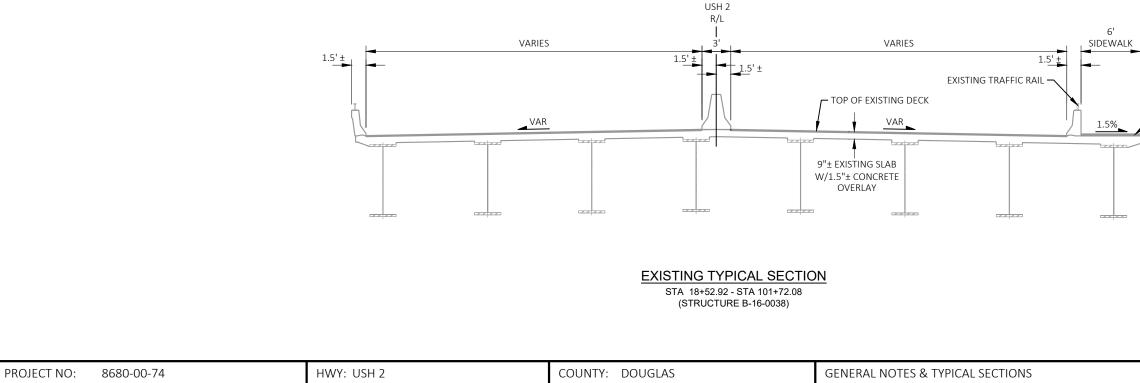
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

THE LOCATION OF EXISTING UTILITY FACILITIES LOCATED WITHIN THE PROJECT ARE NOT SHOWN ON THE PLANS.



NO UTILITIES LISTED





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DESIGN CONTACT

JEFF ABRAMSON AYRES ASSOCIATES INC 3433 OAKWOOD HILLS PARKWAY EAU CLAIRE, WI 54701 PHONE: 715-834-3161 EMAIL: abramsonj@ayresassociates.com

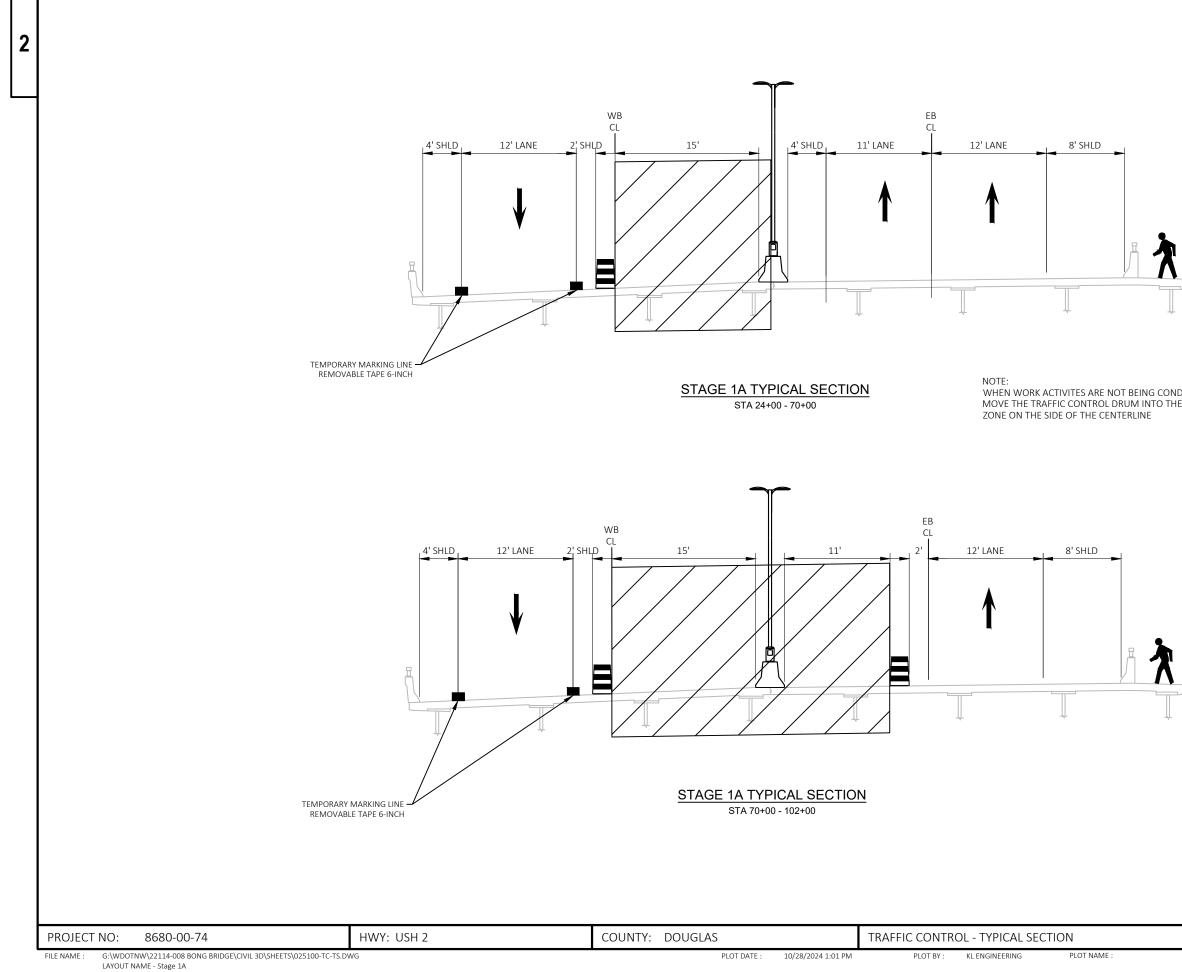
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AMY CRONK NORTHERN REGION HQ 810 WEST MAPLE STREET SPOONER, WI 54801 PHONE: 715-520-3976 EMAIL: amy.cronk@wisconsin.gov

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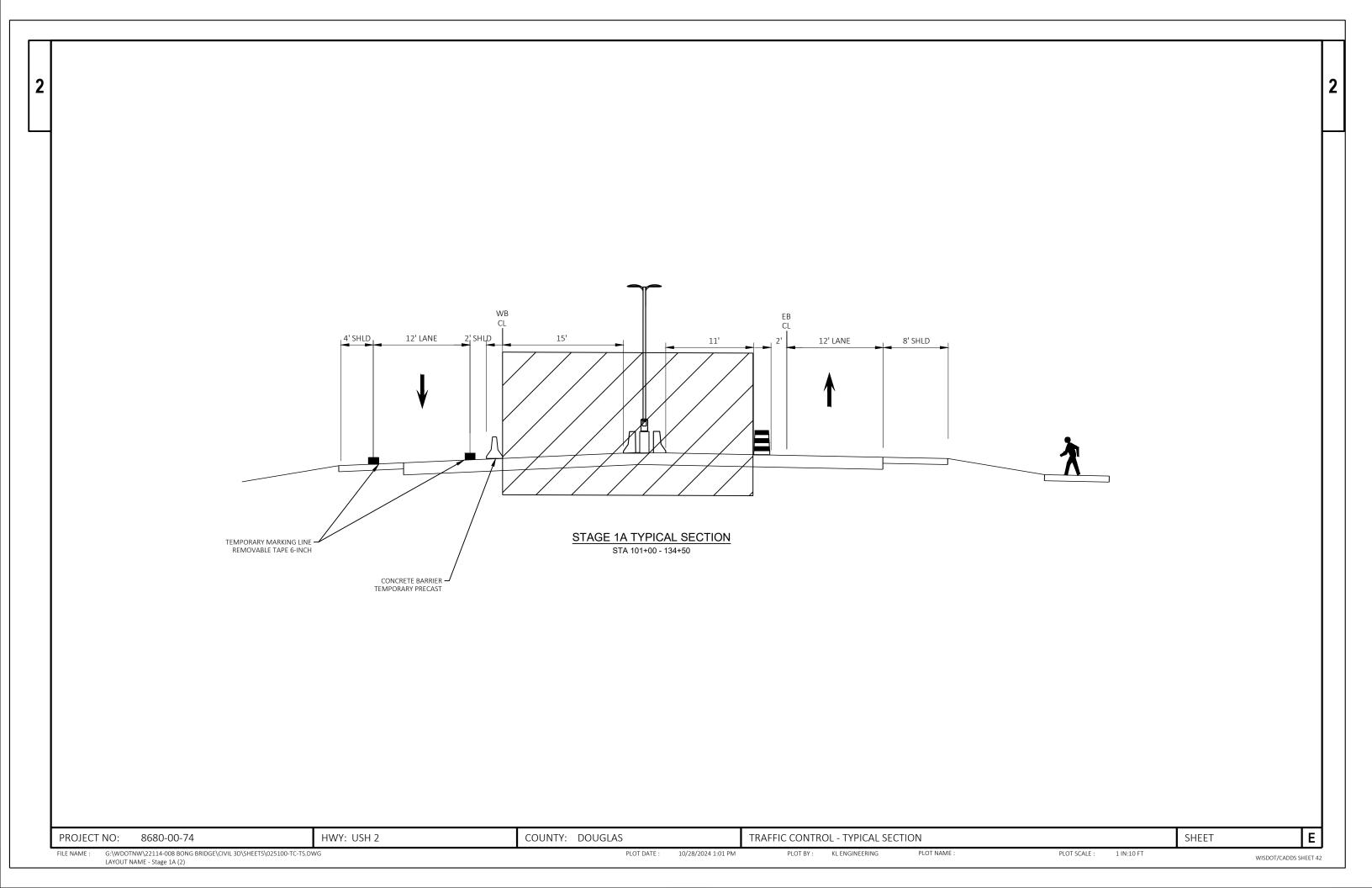
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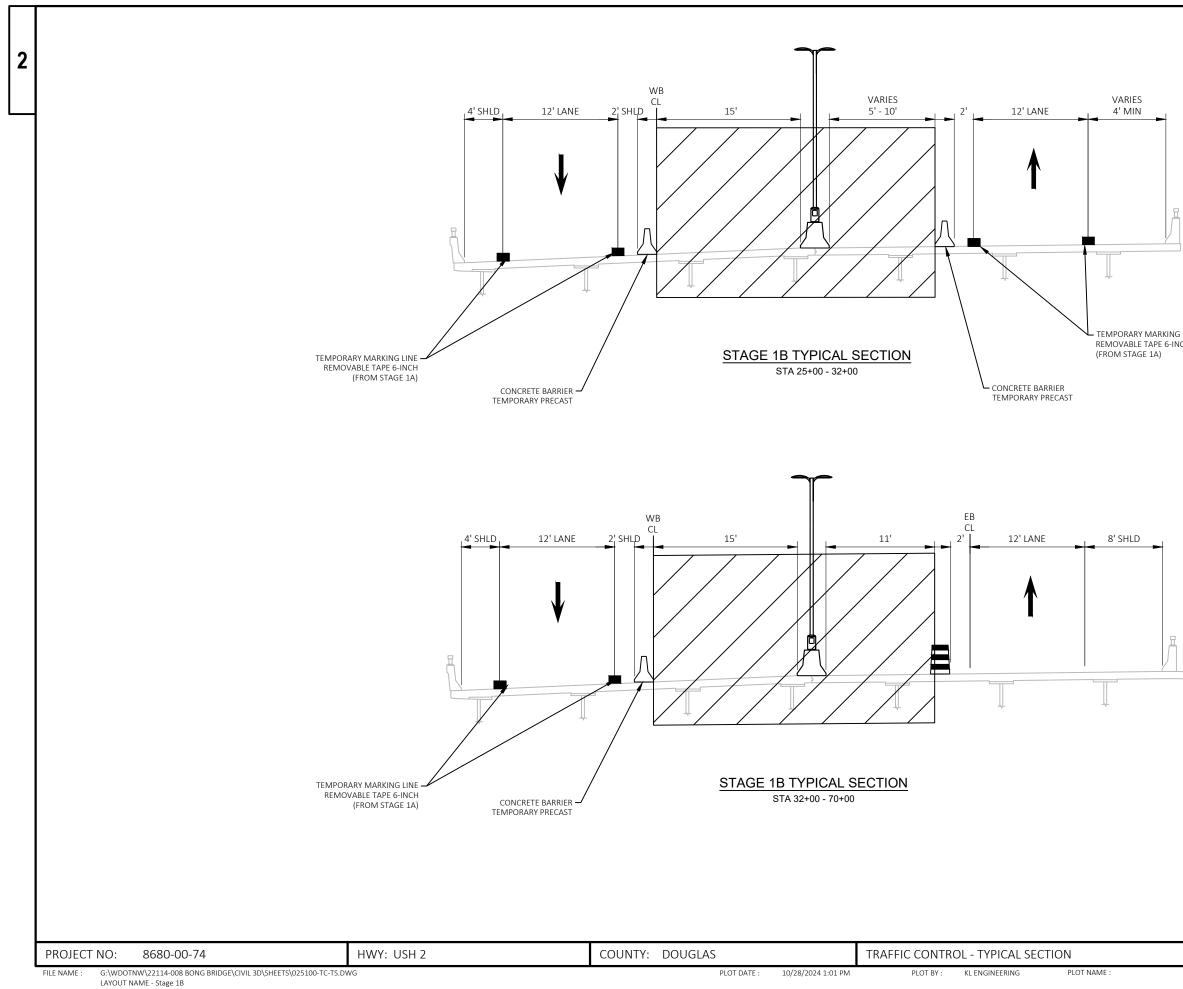


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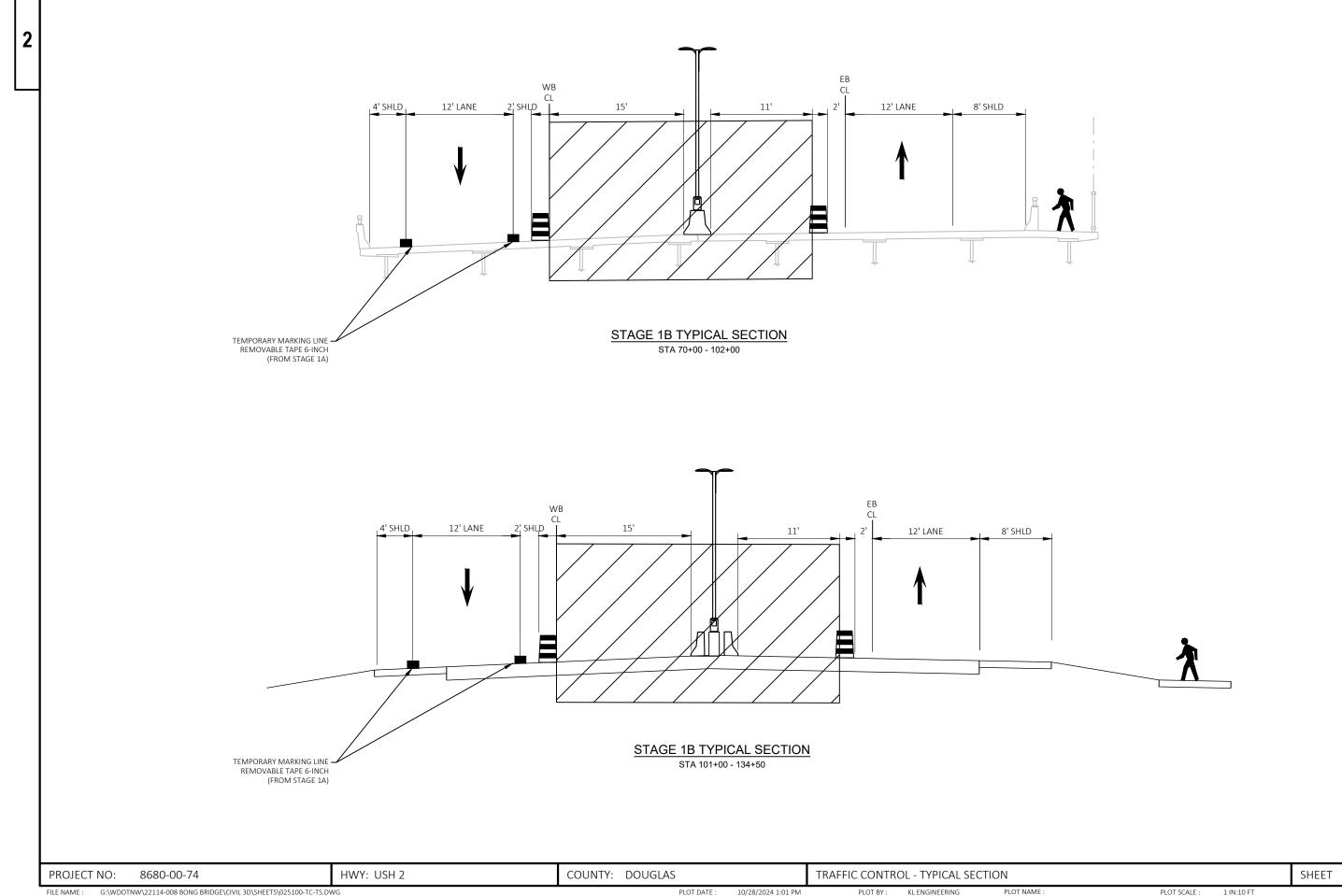




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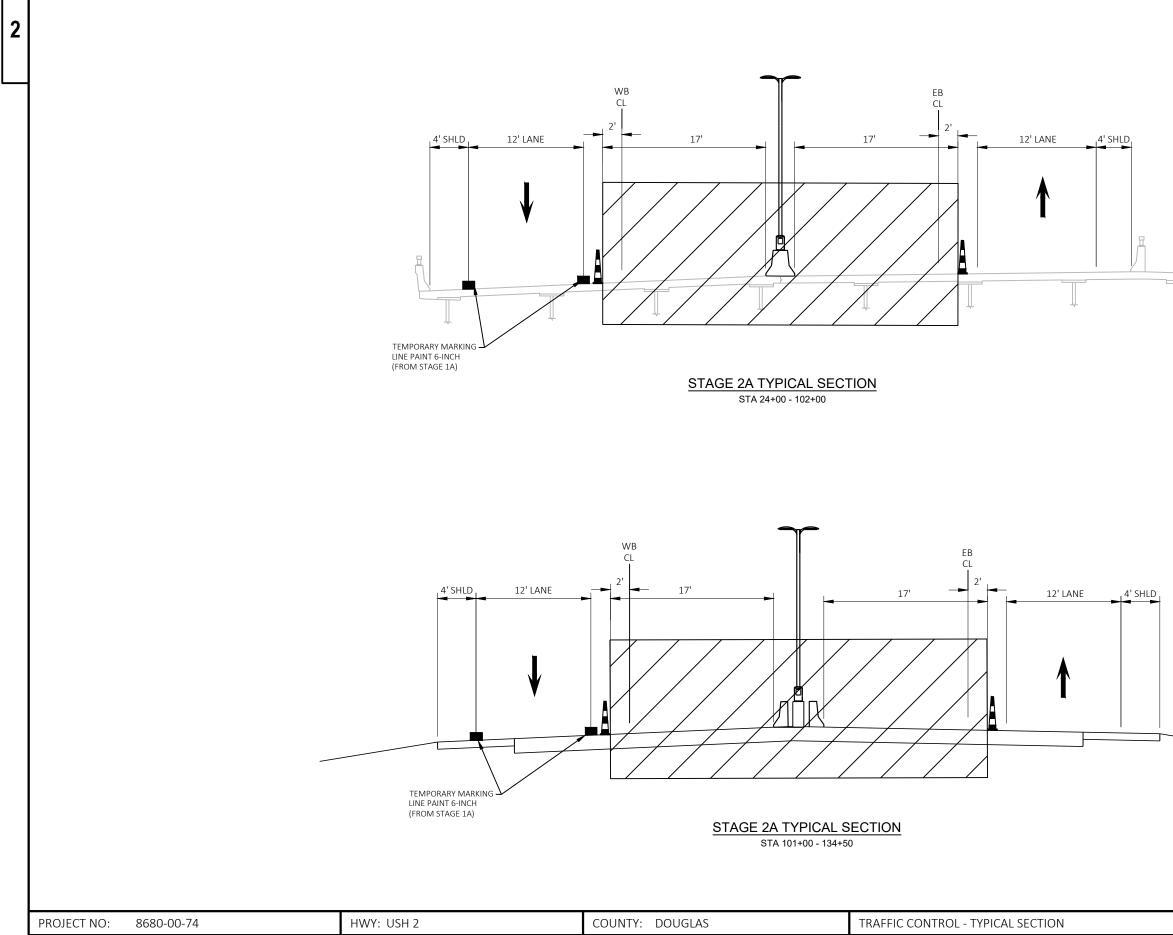
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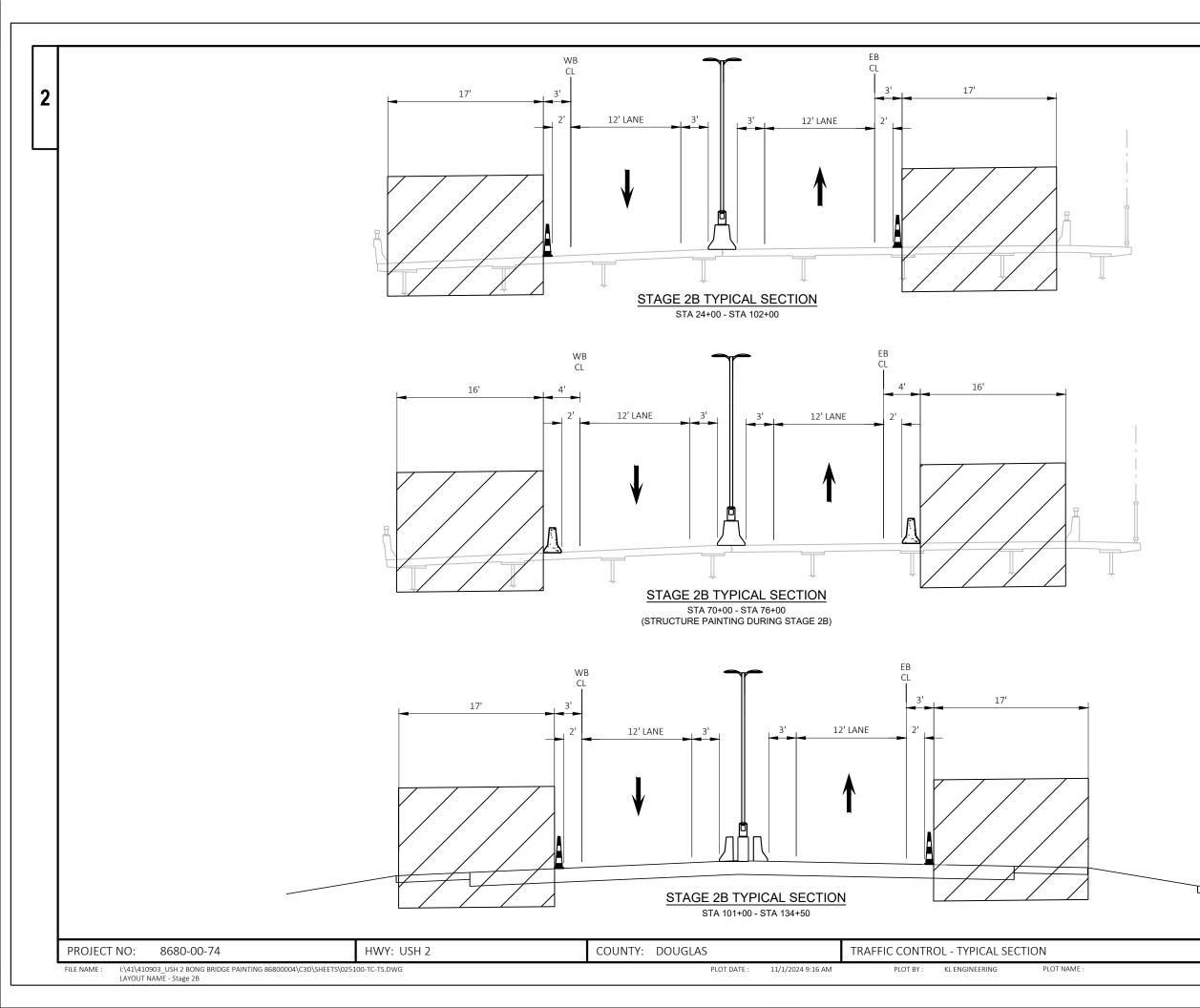


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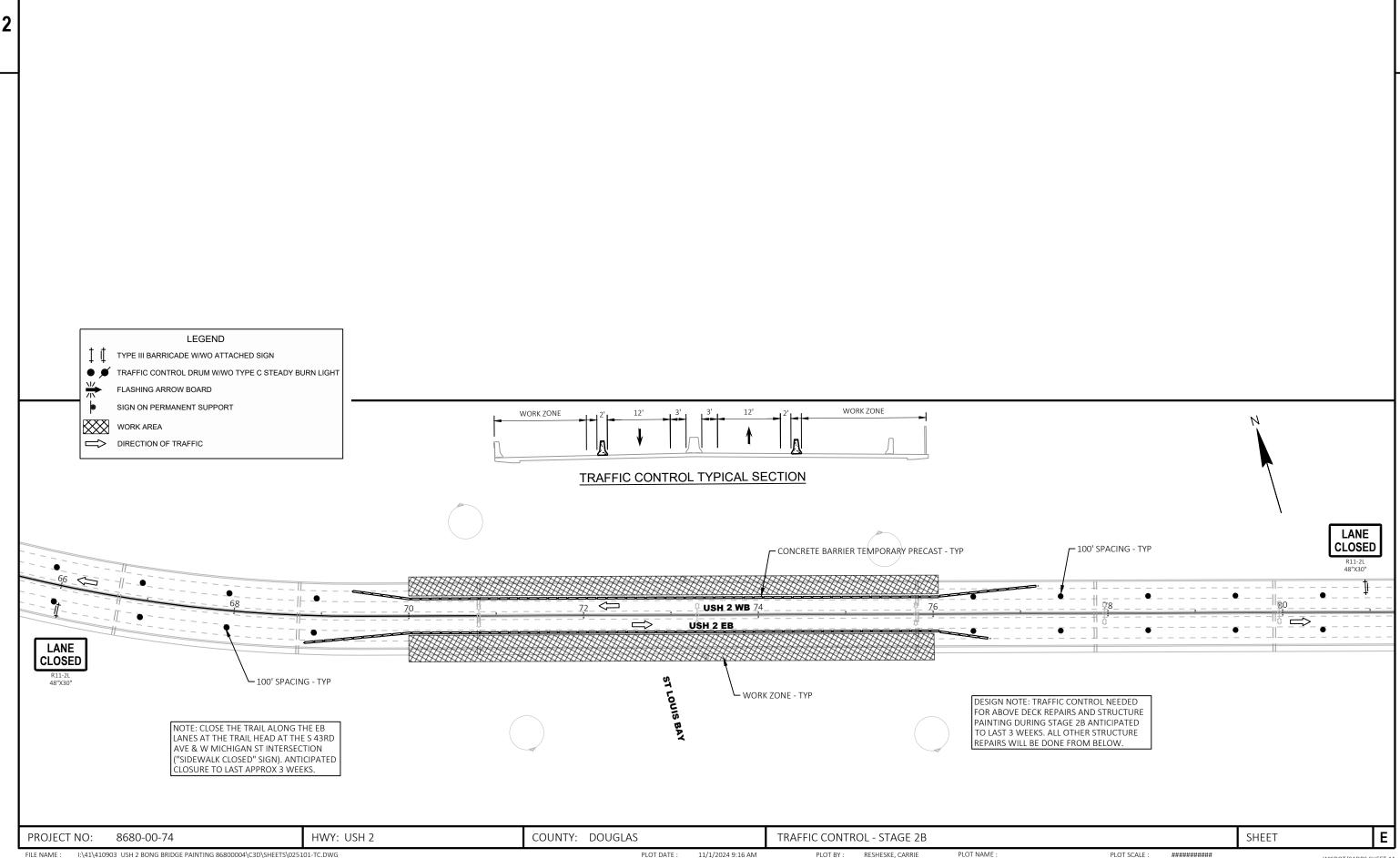


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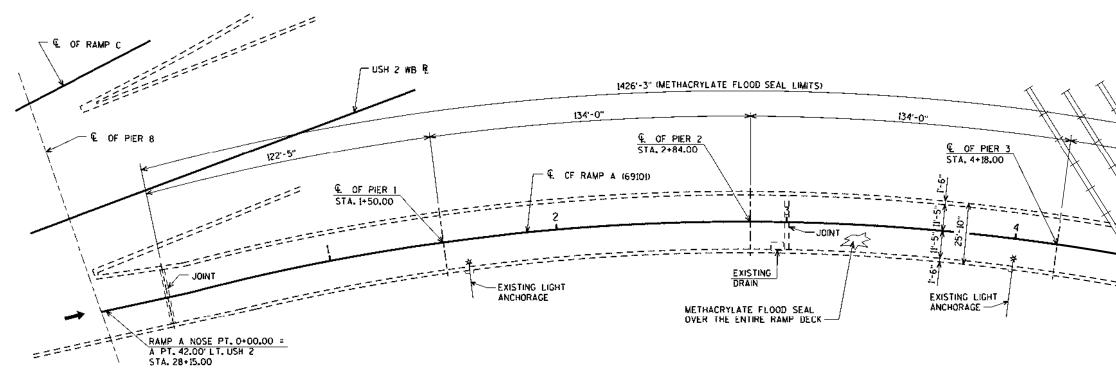
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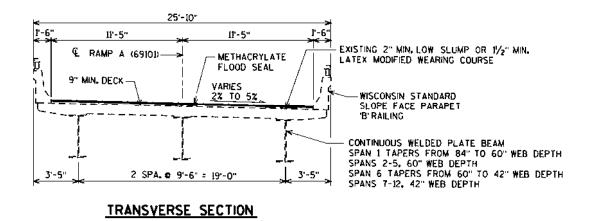
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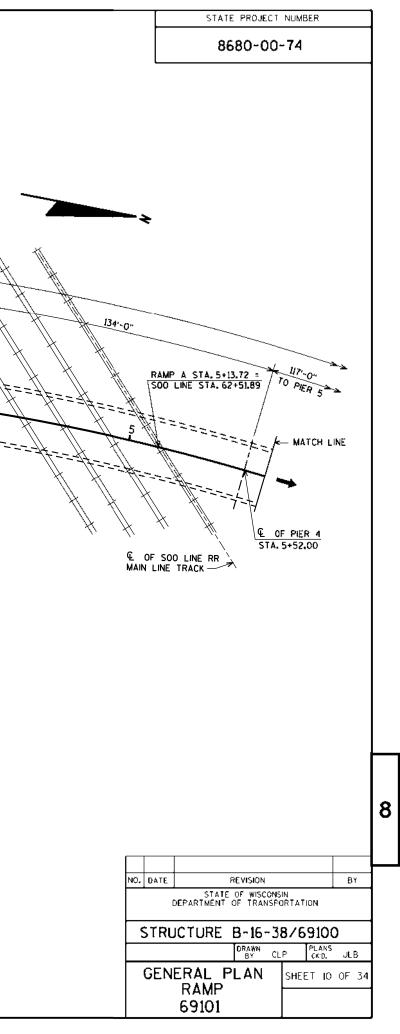
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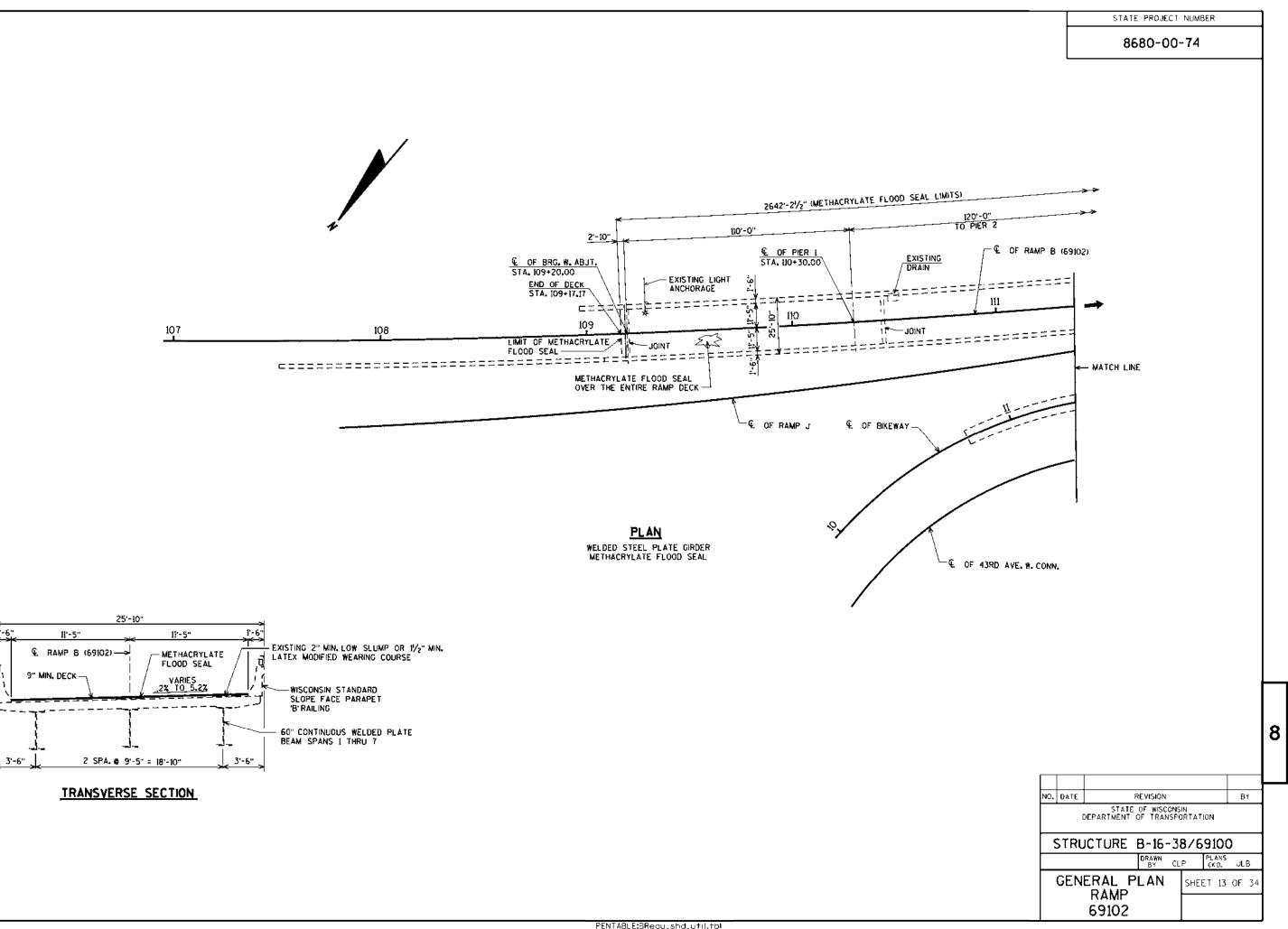




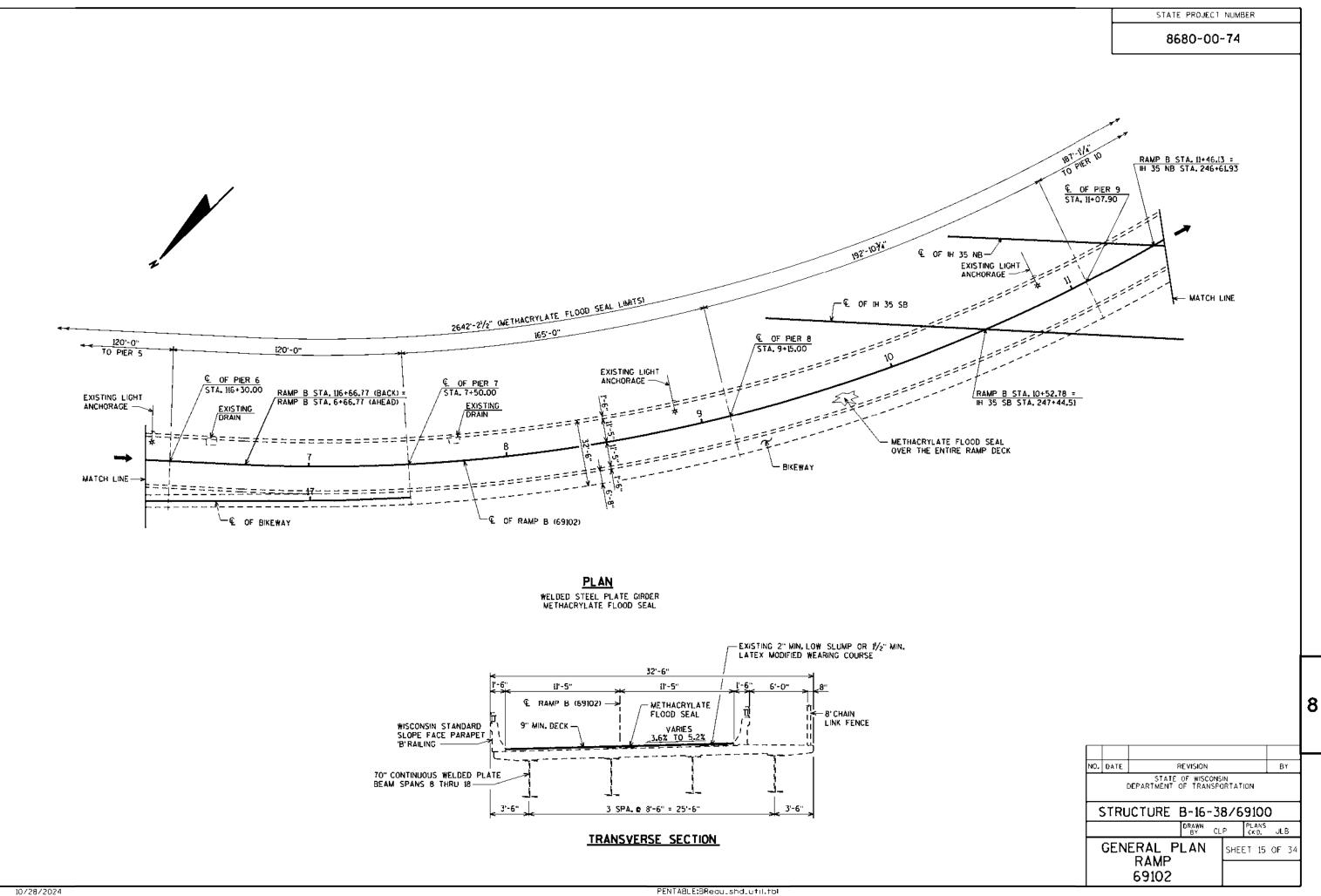


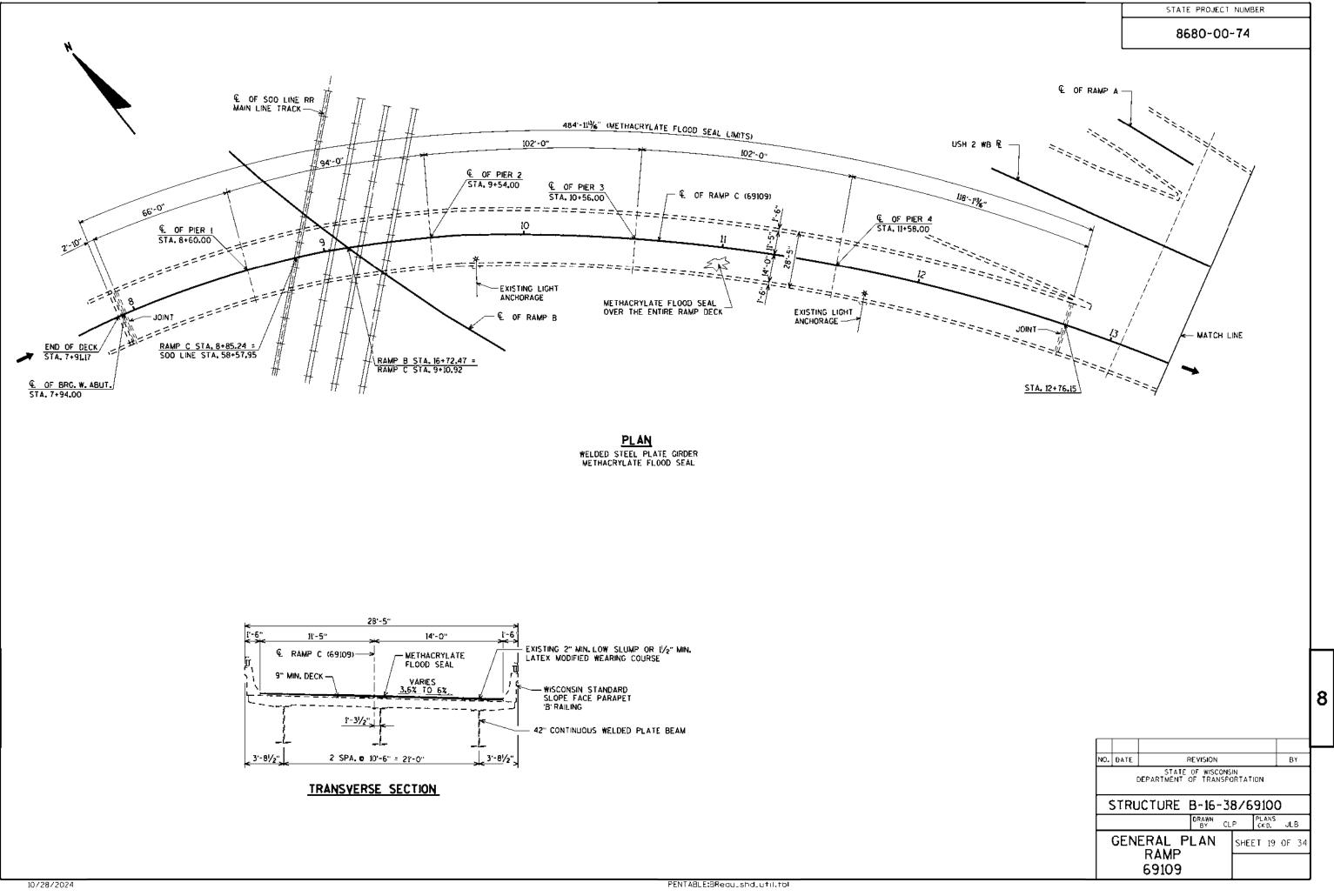


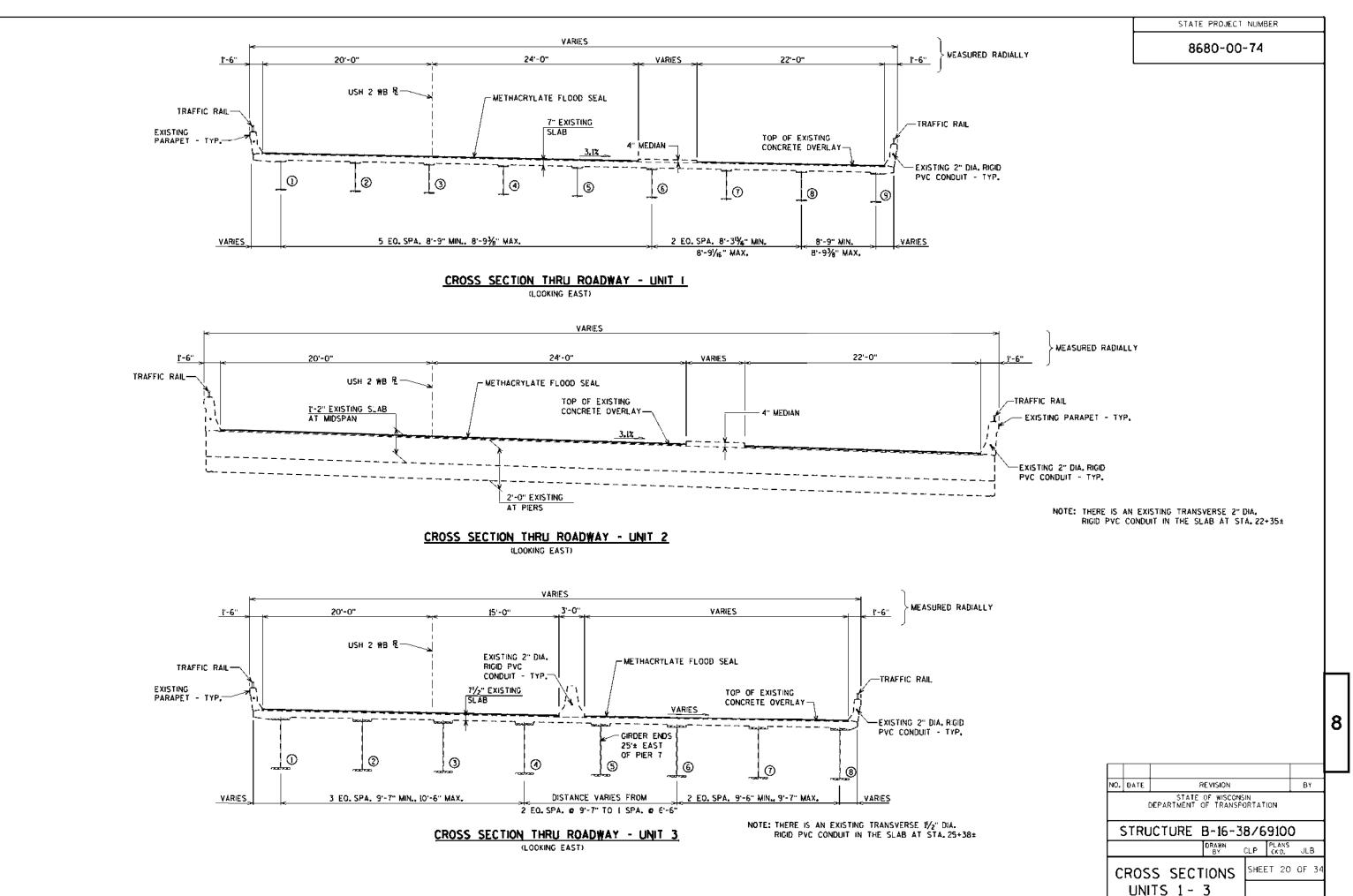




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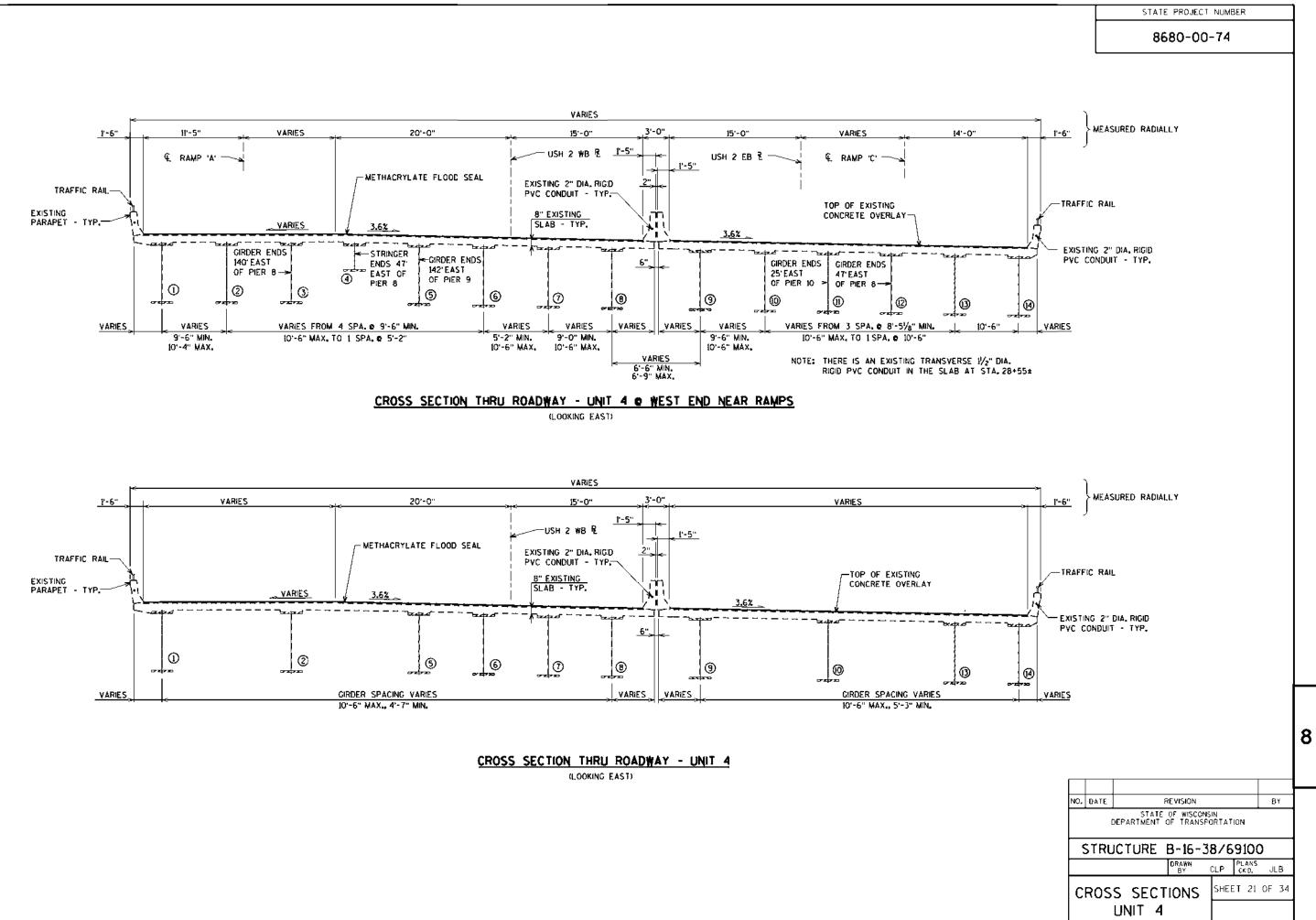




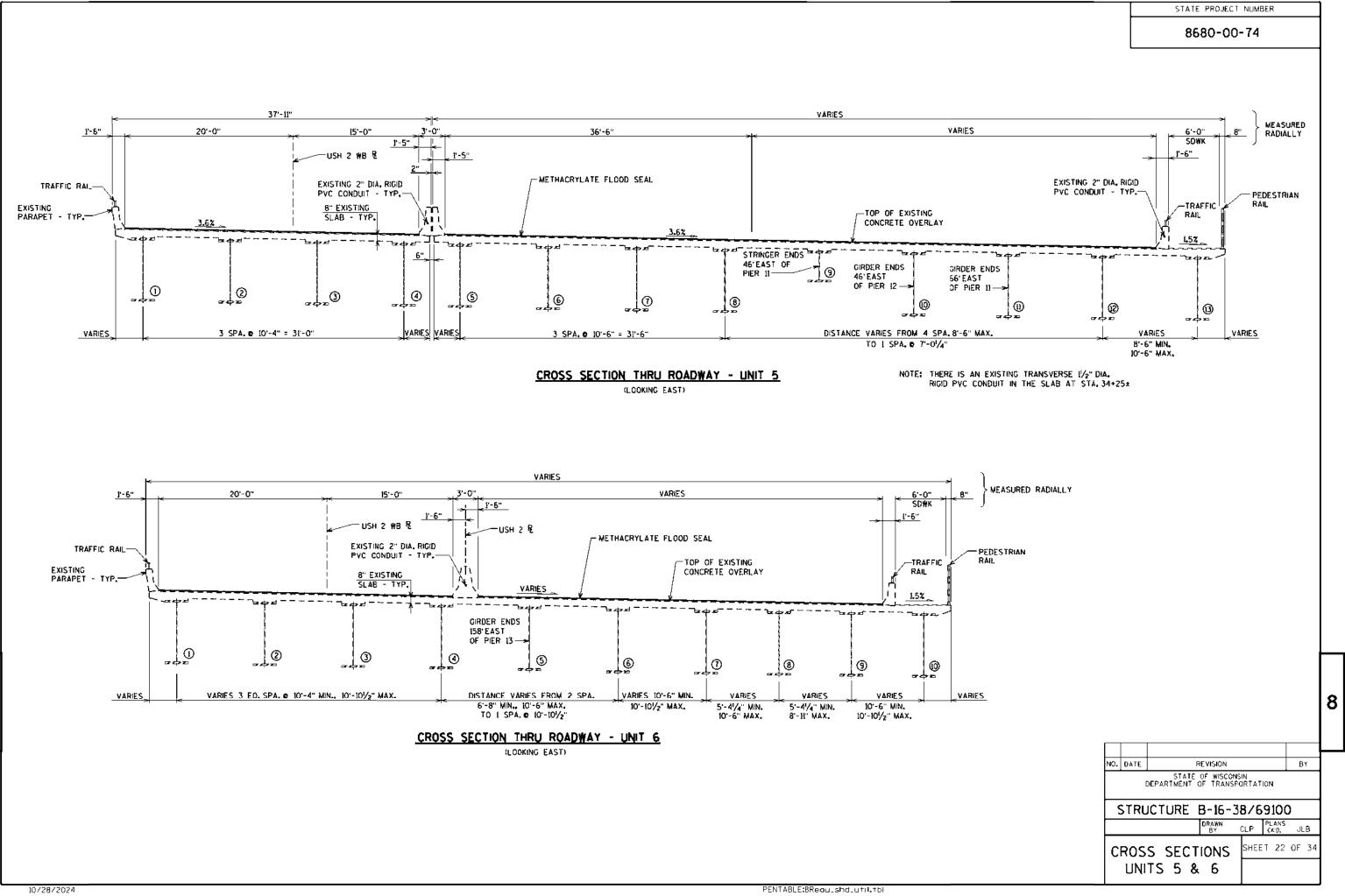
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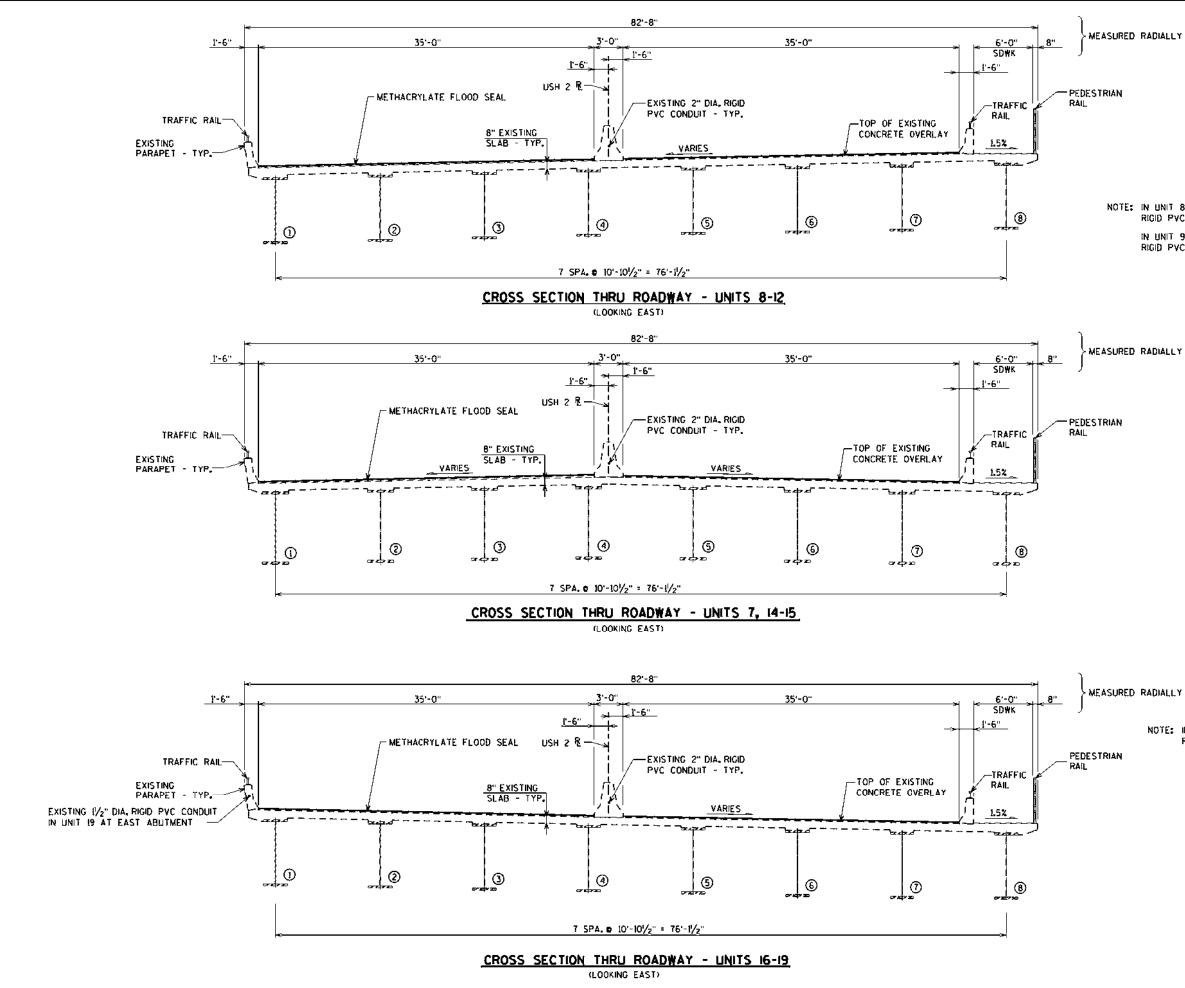






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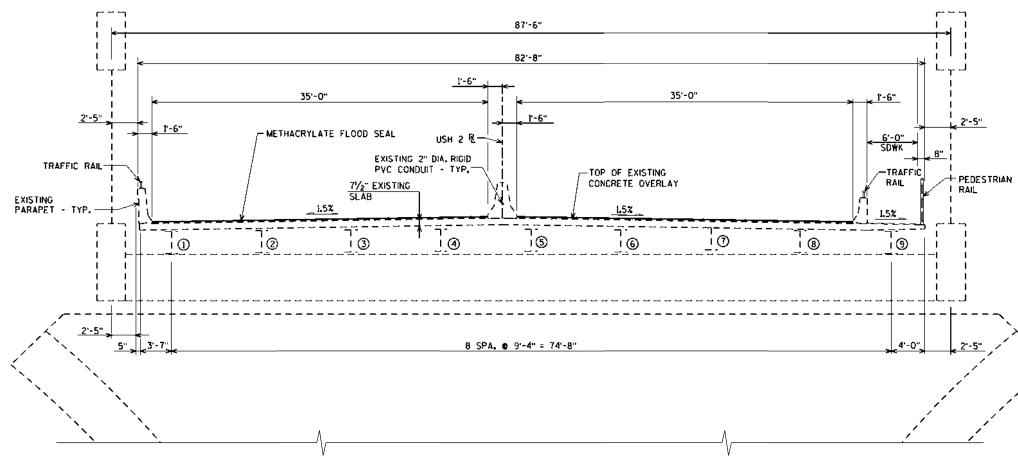
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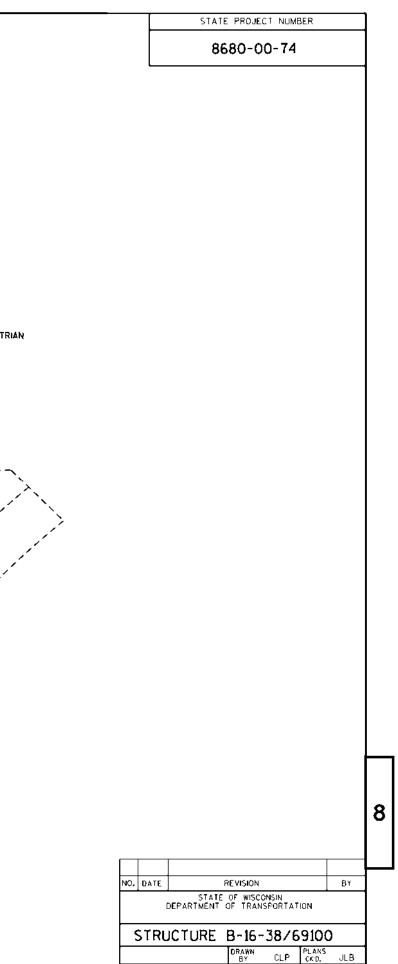
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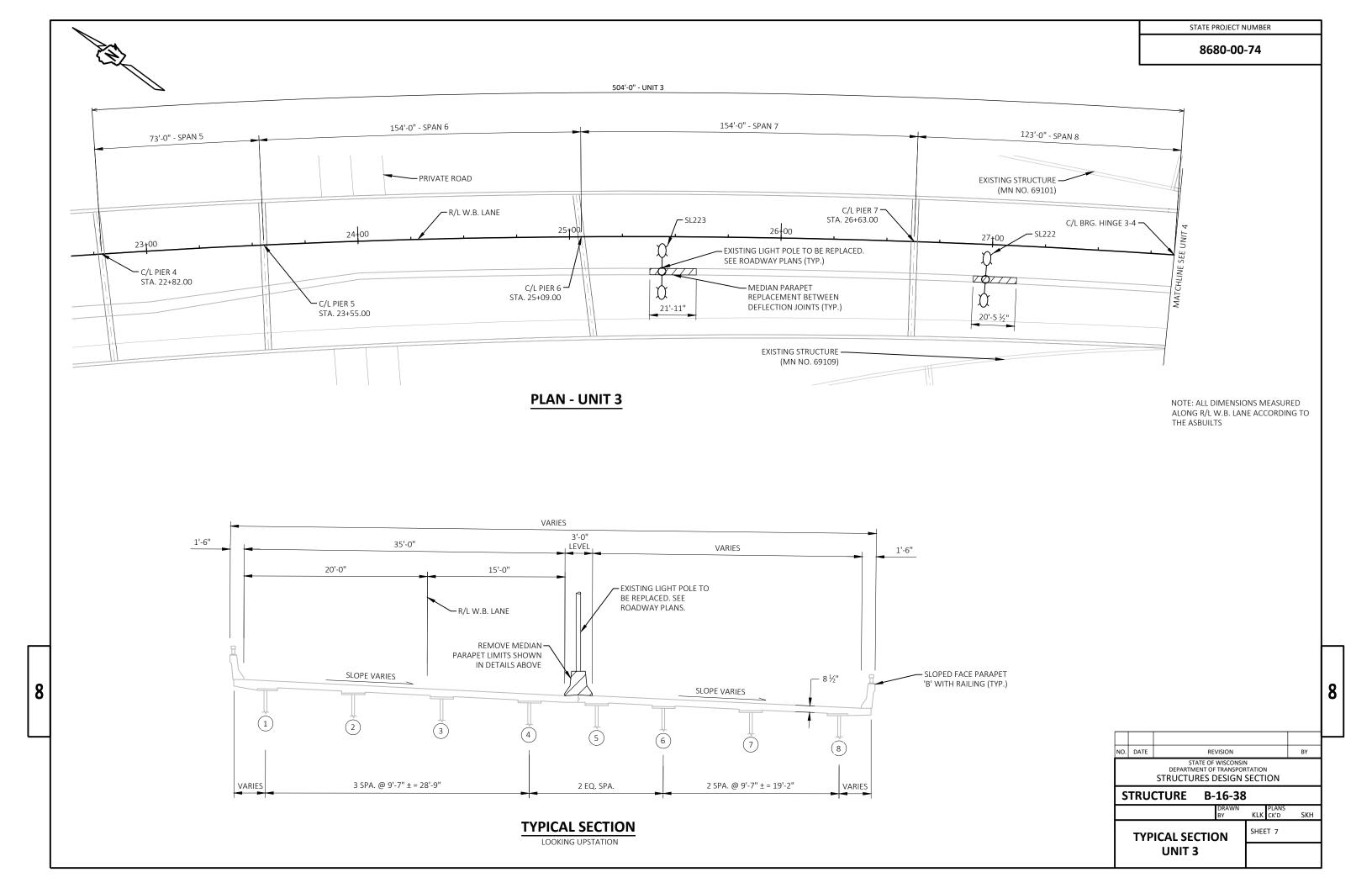
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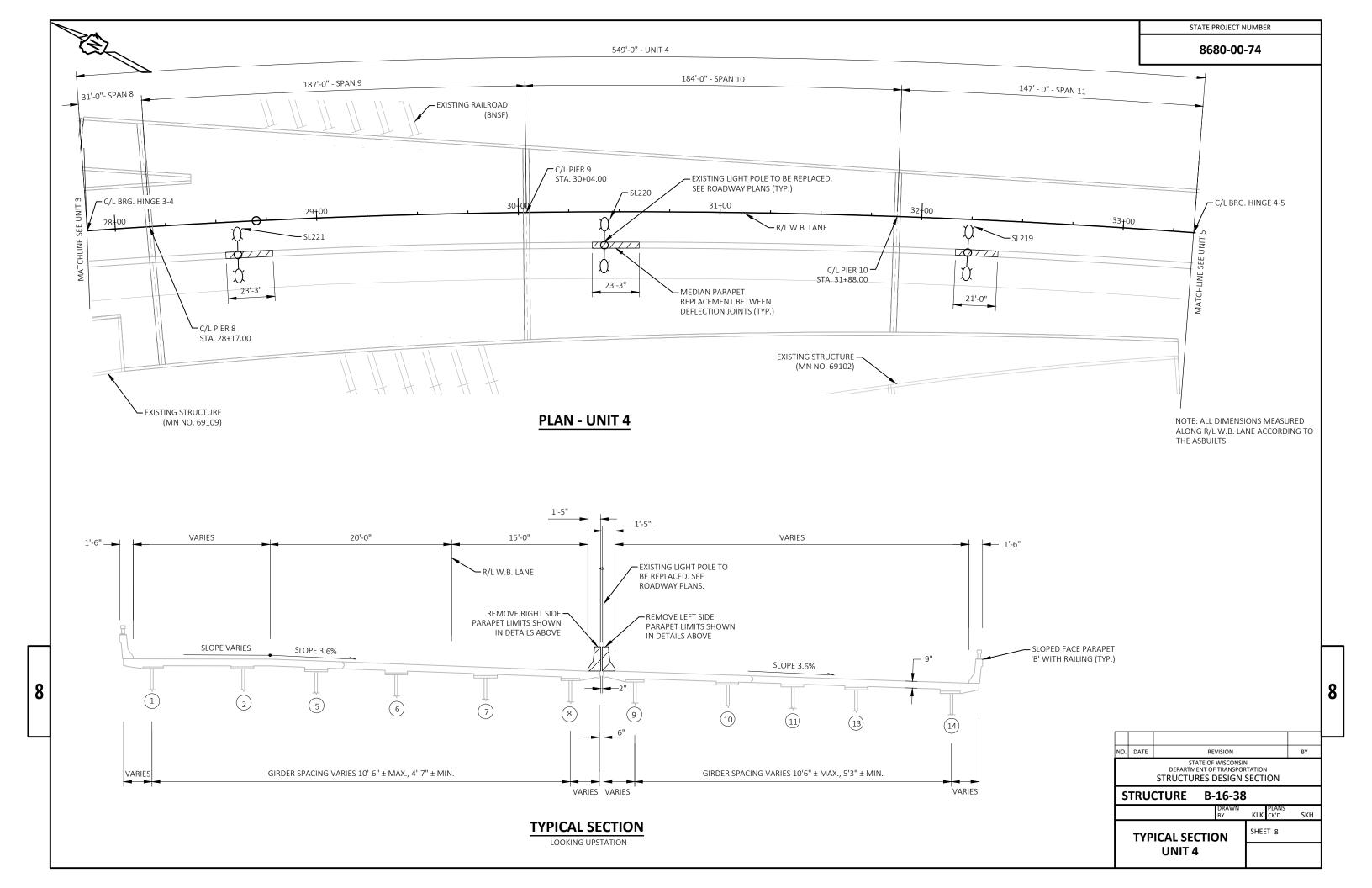


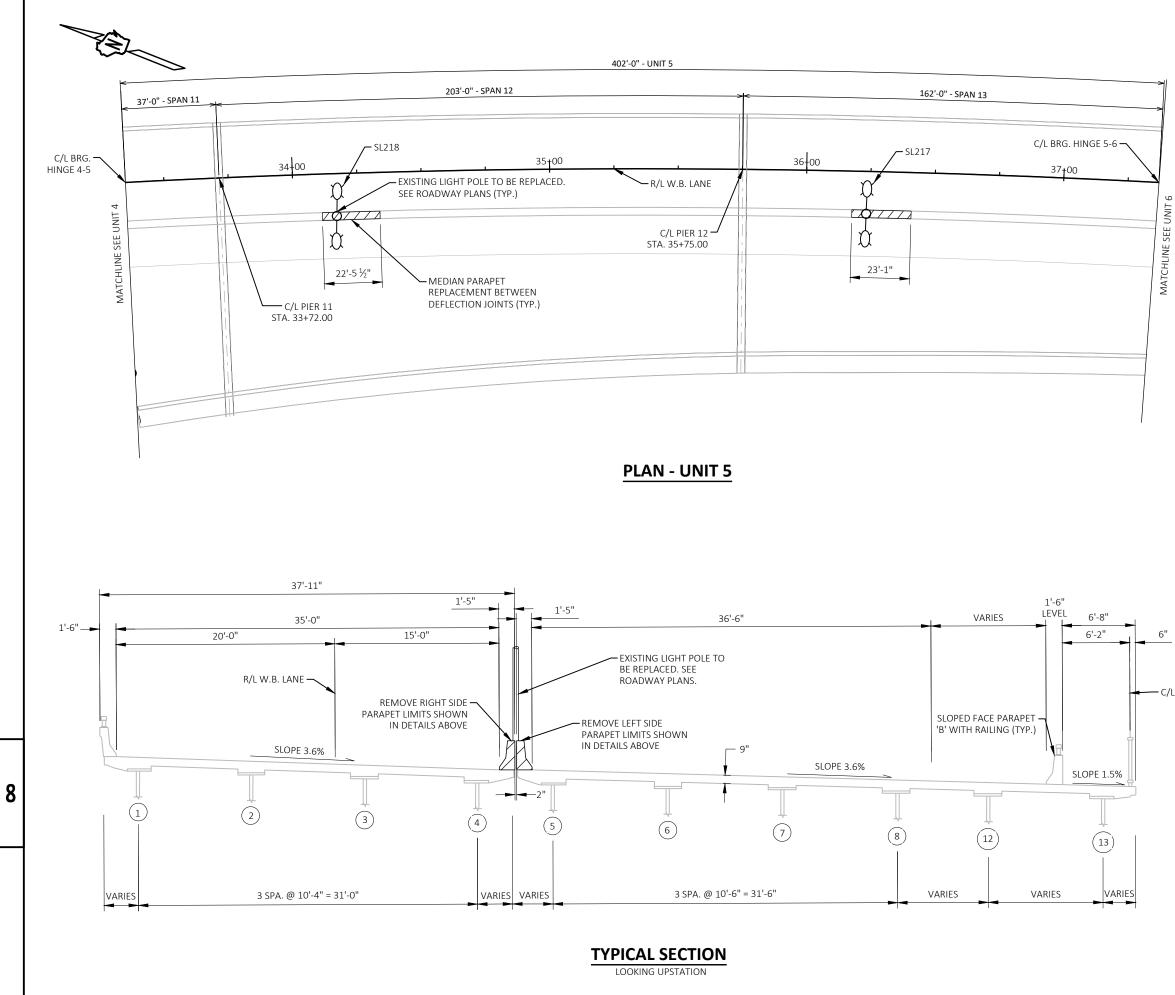
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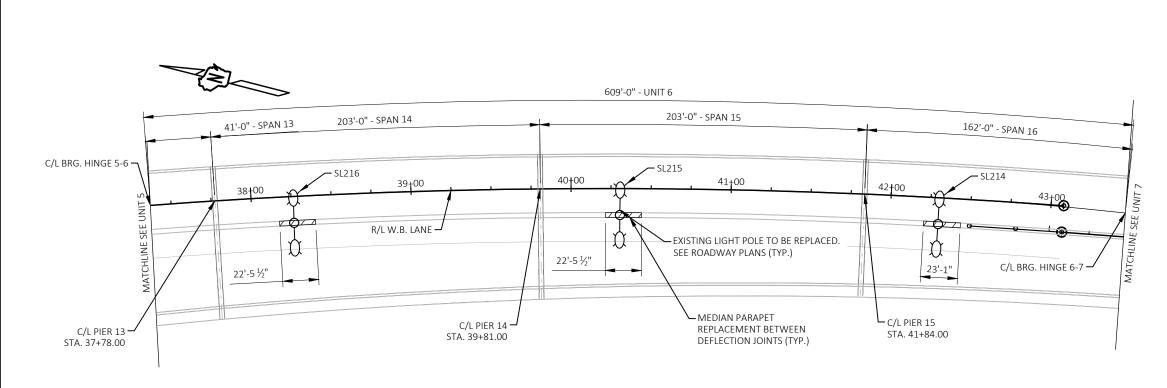
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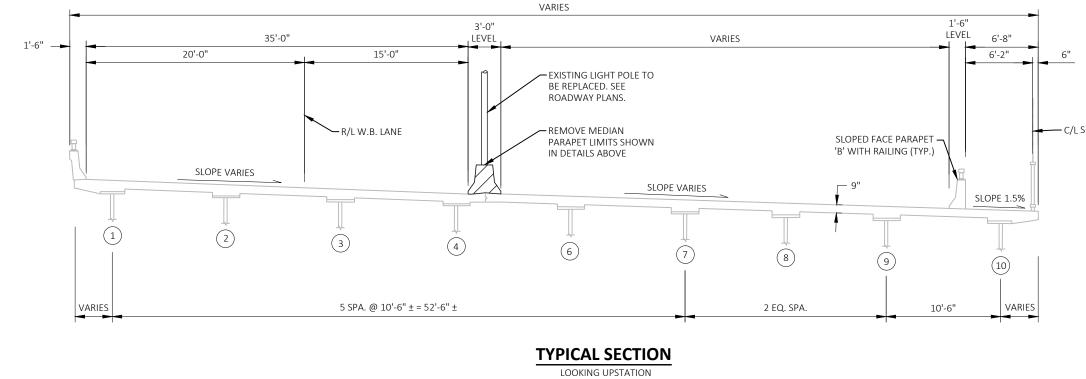
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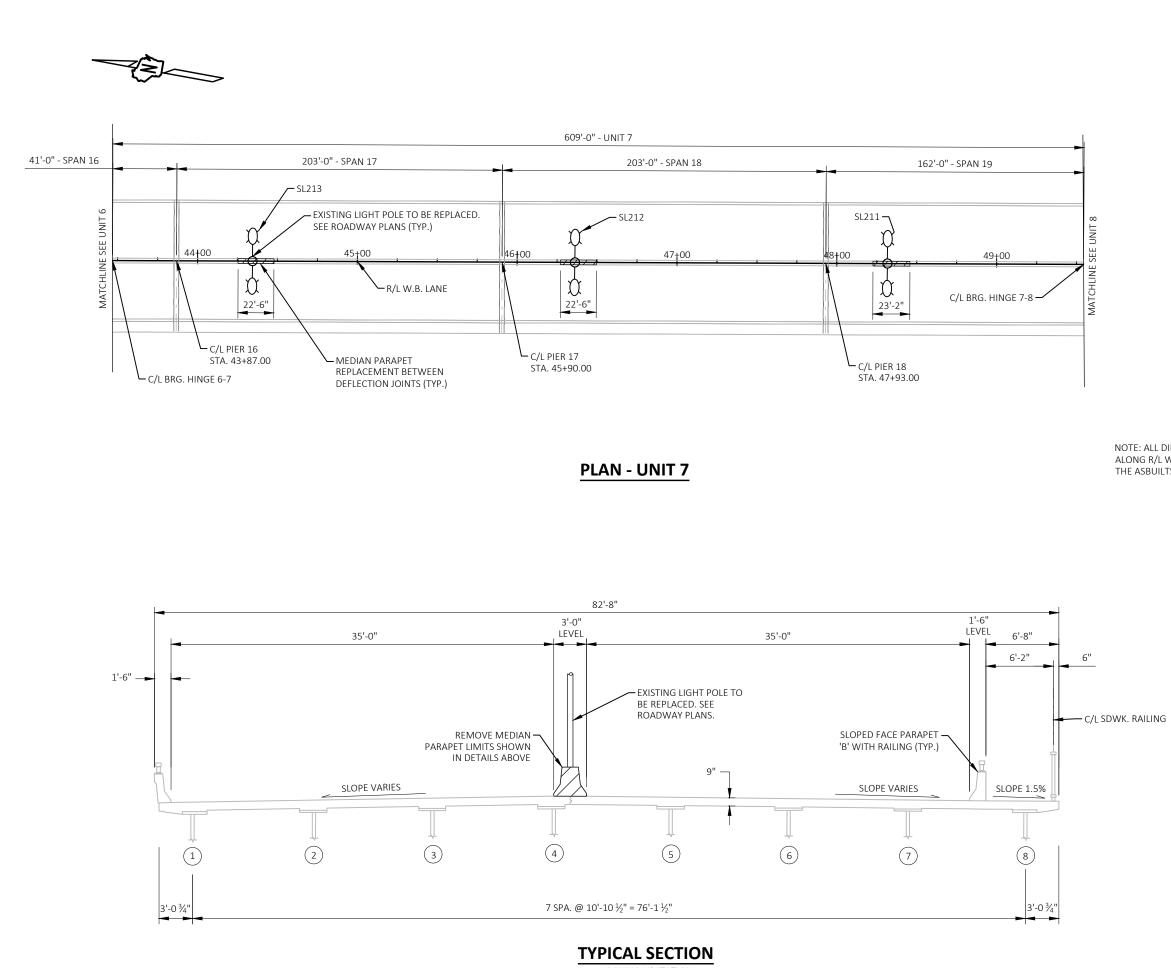
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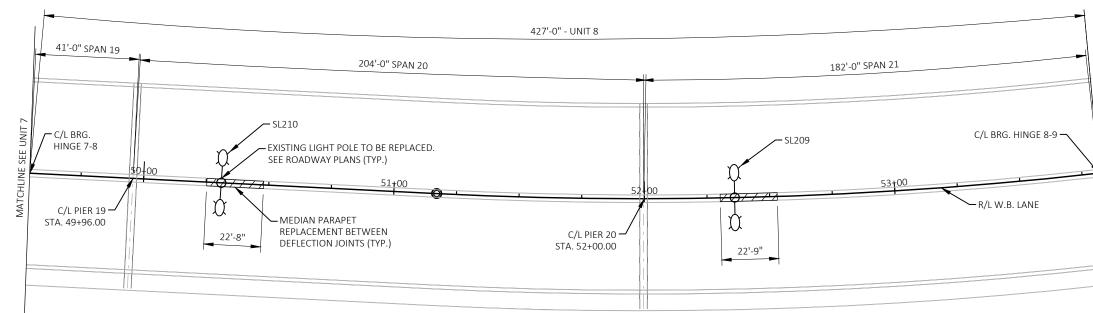
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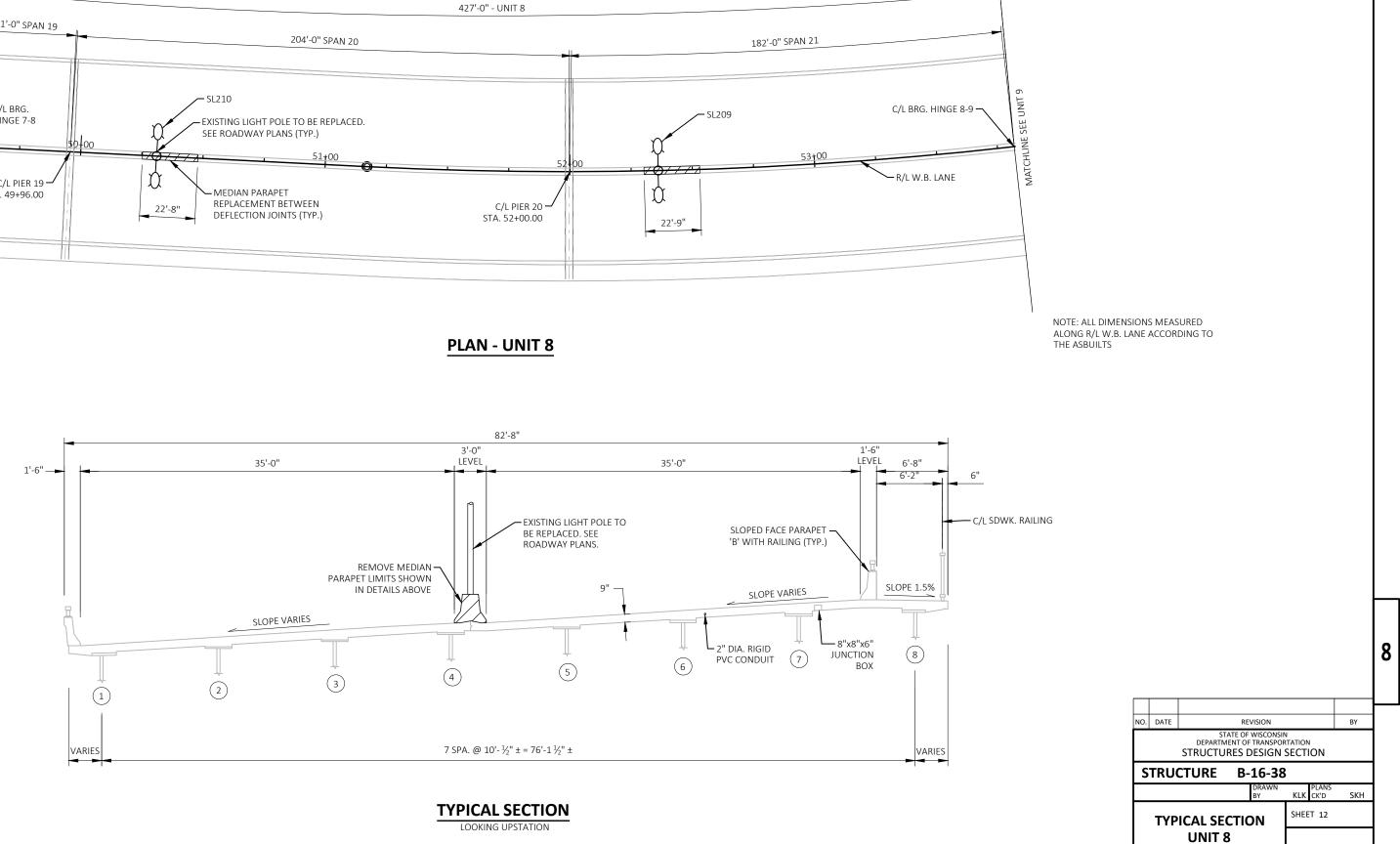
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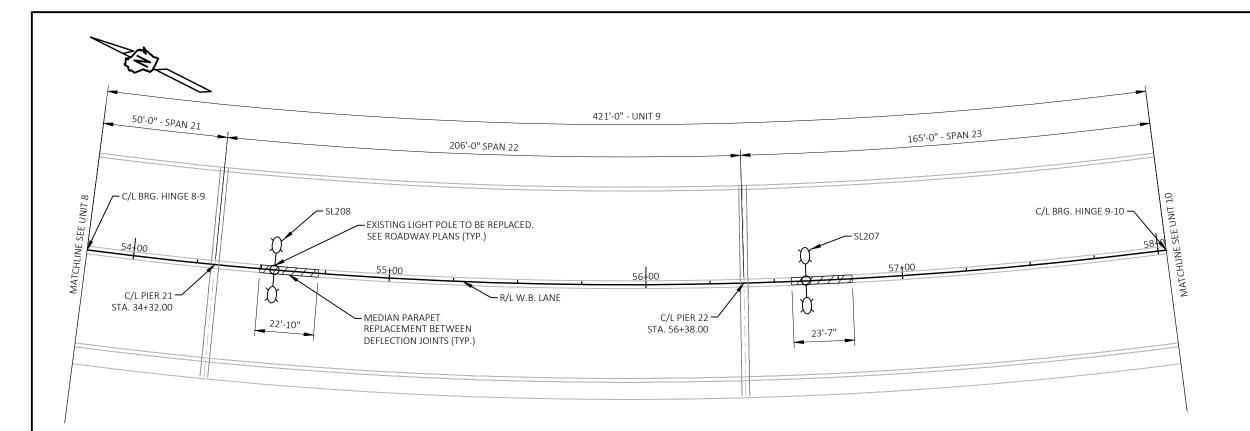
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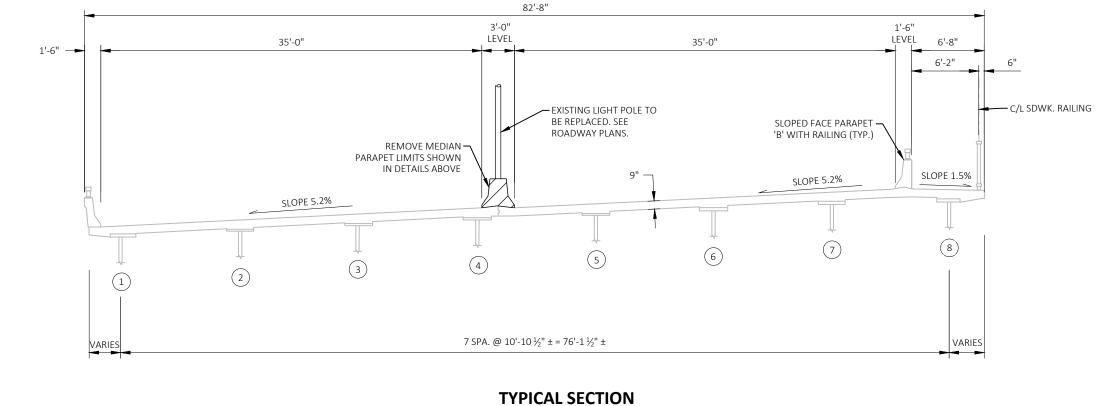


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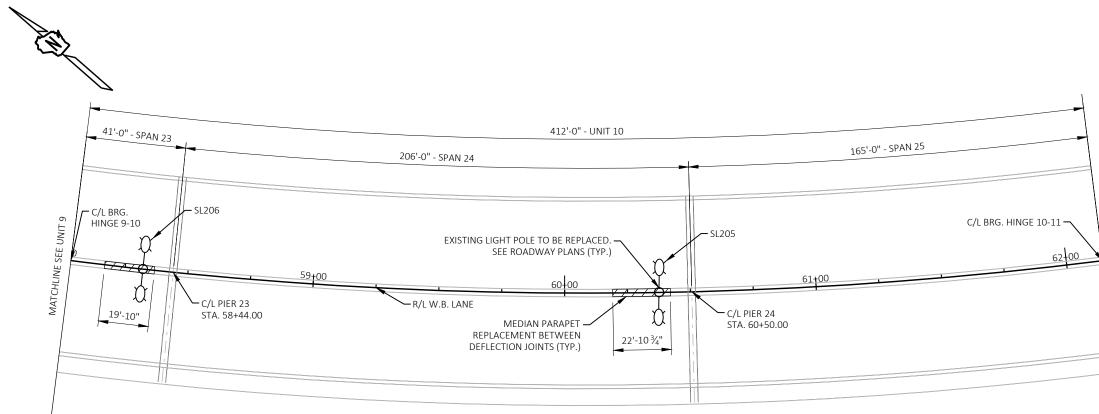
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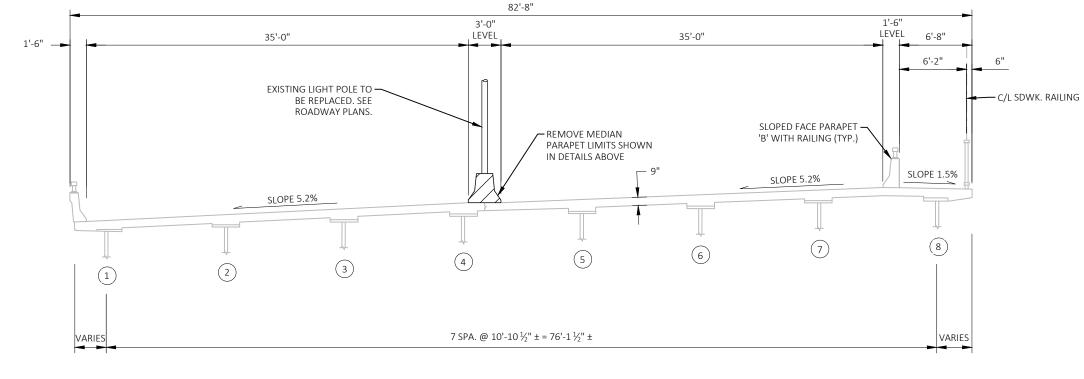
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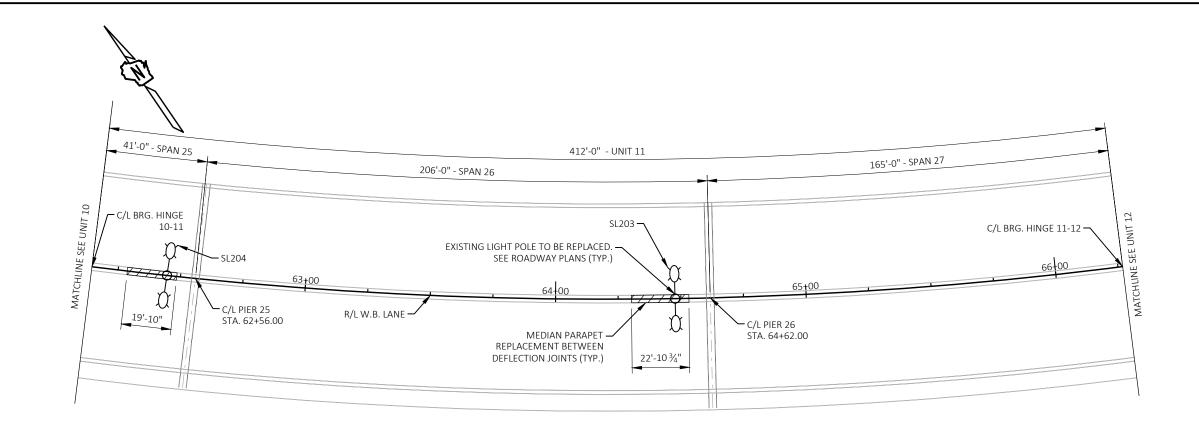
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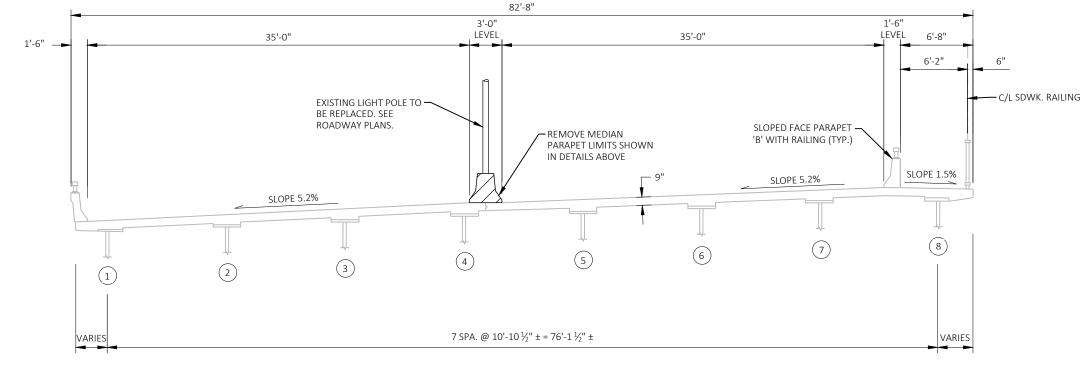


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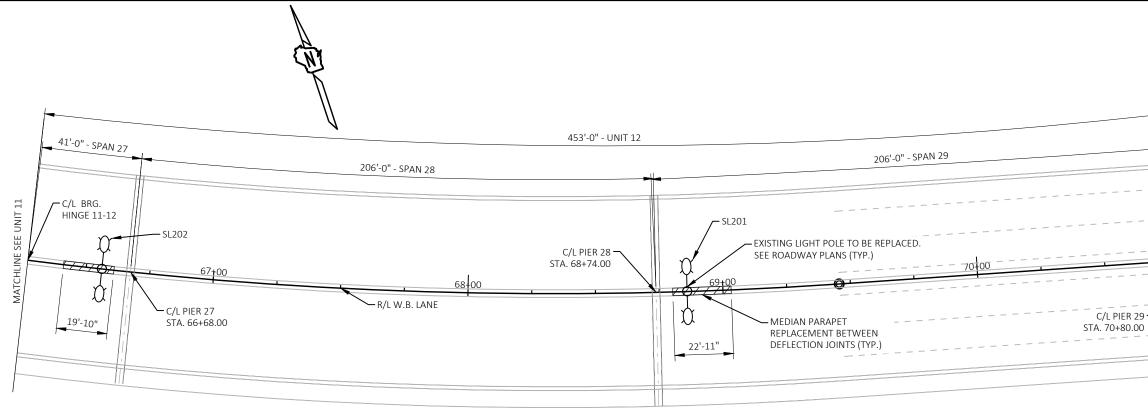
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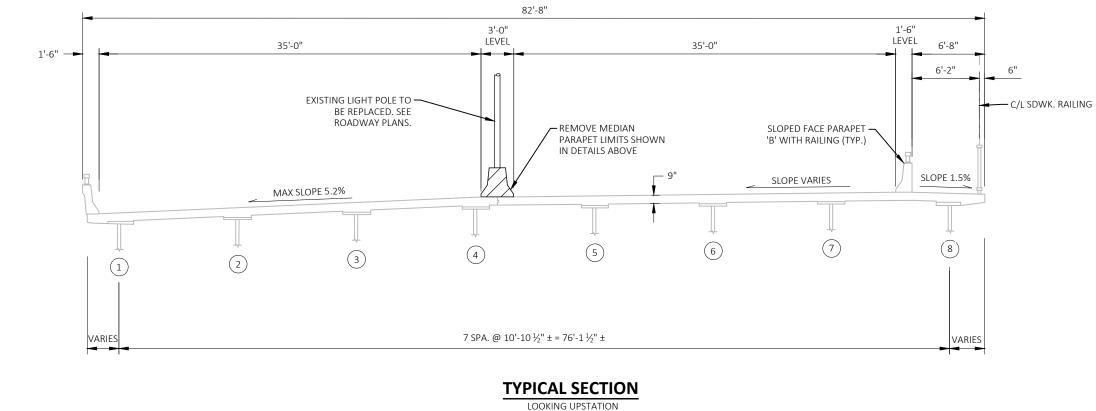
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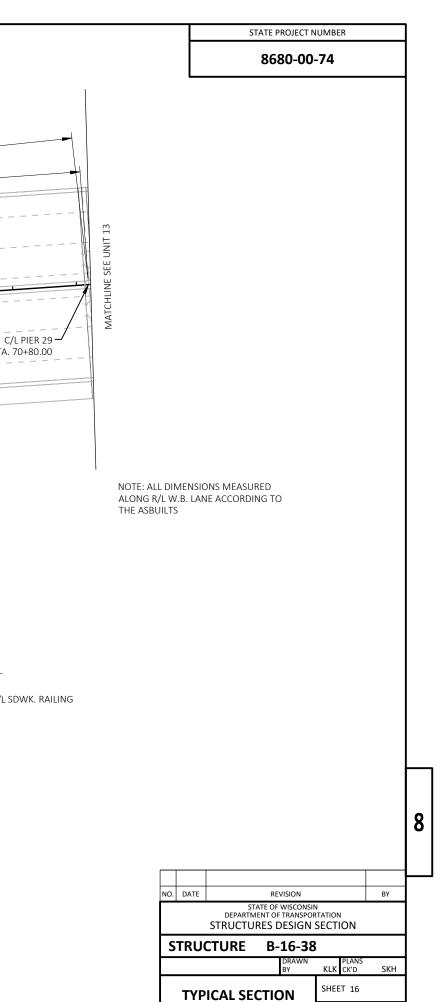
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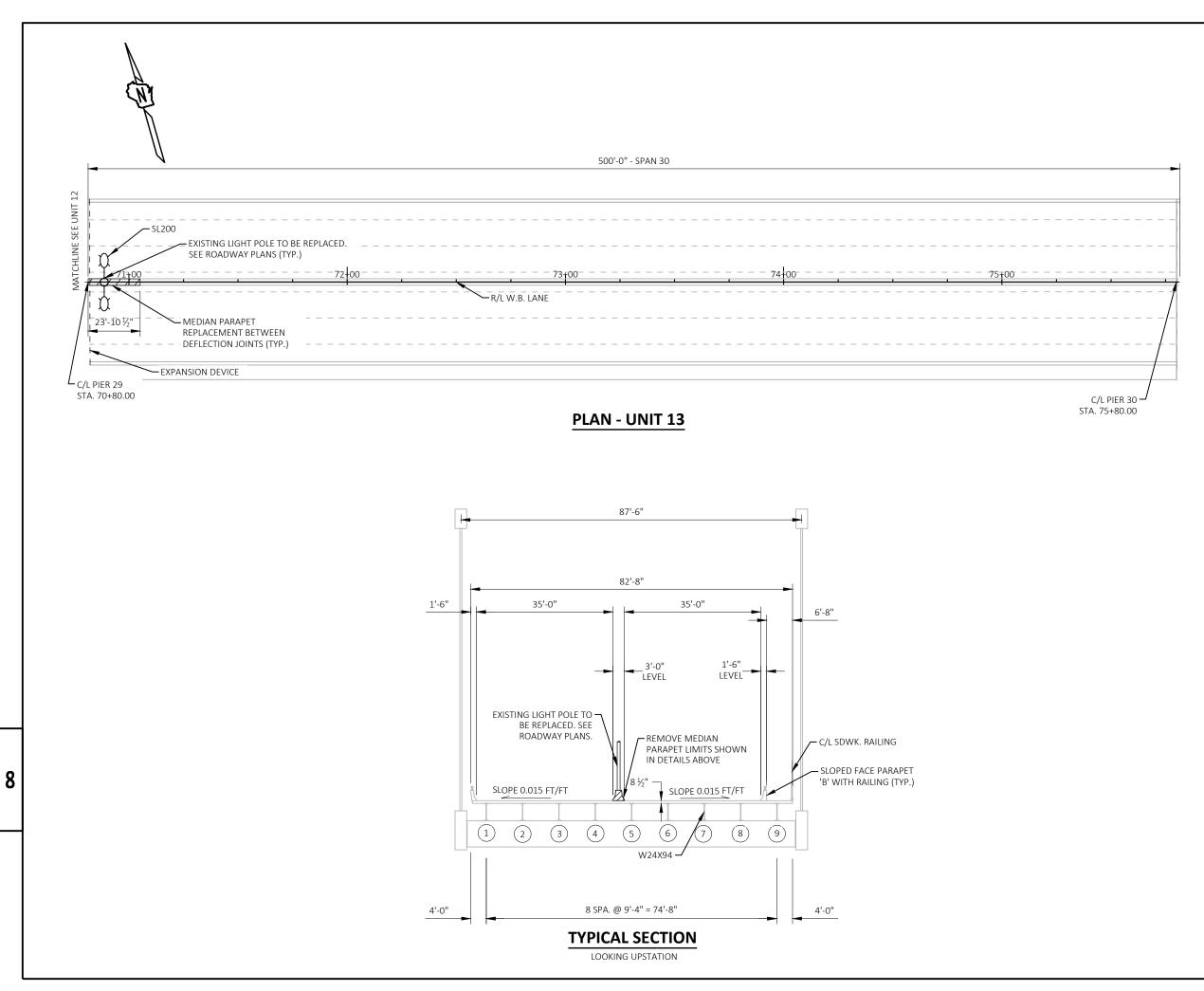




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UNIT 12



STATE PROJECT NUMBER

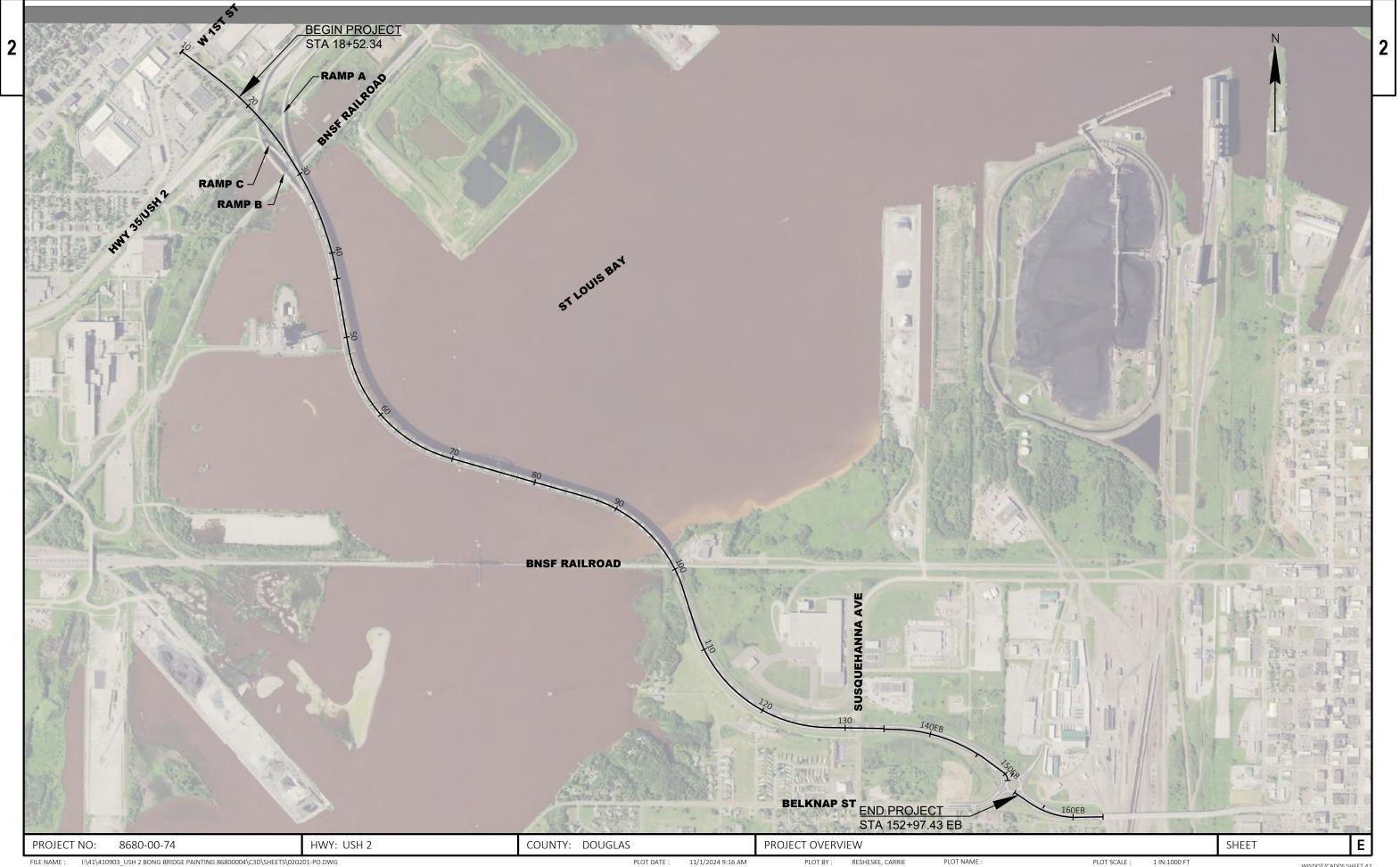
8680-00-74

NOTE: ALL DIMENSIONS MEASURED ALONG R/L W.B. LANE ACCORDING TO THE ASBUILTS

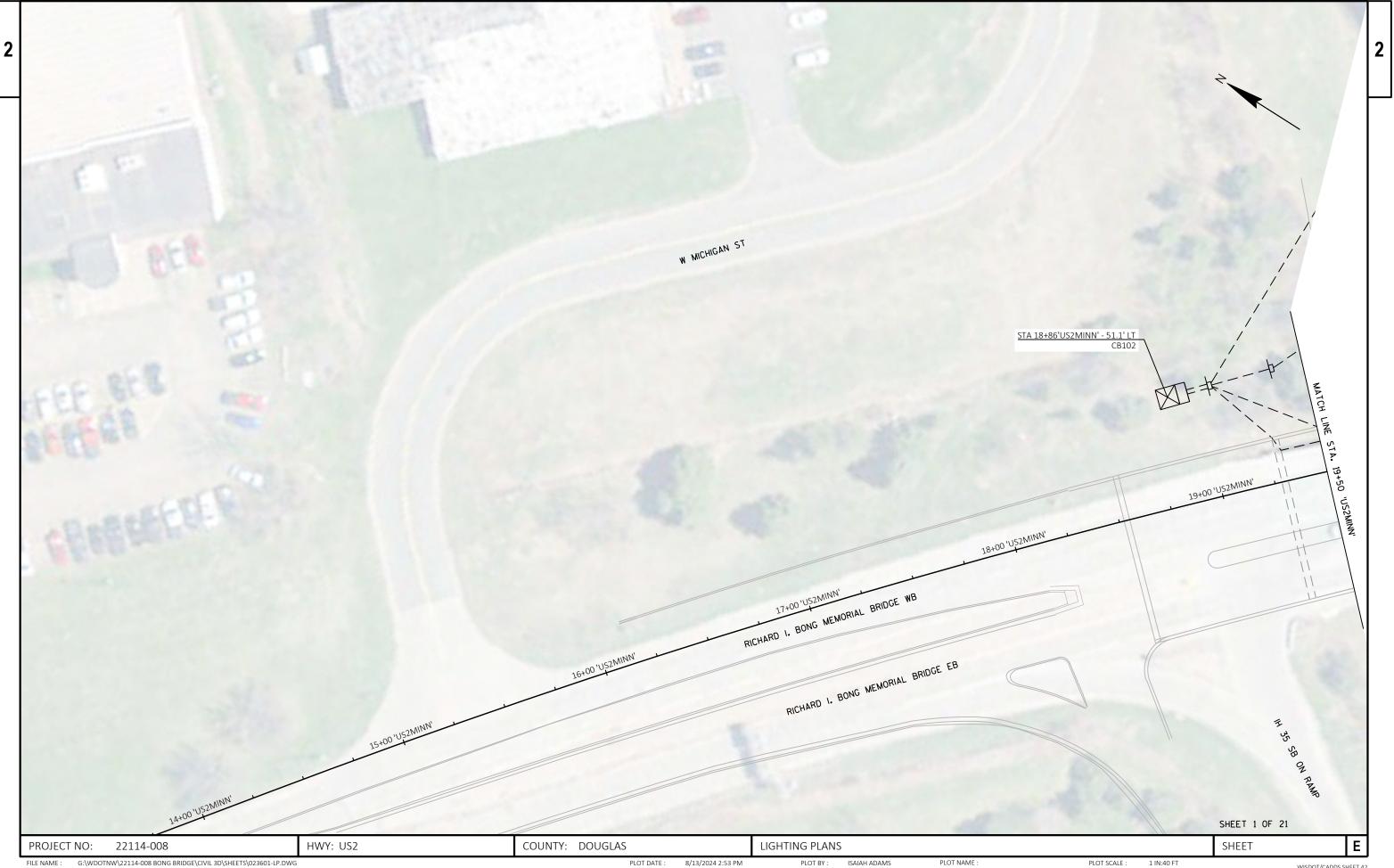
NO.	DATE	RE	VISION			BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION						
S	STRUCTURE B-16-38					
			DRAWN BY	KLK	PLANS CK'D	SKH
TYPICAL SECTION UNIT 13			SHEE	T 17		

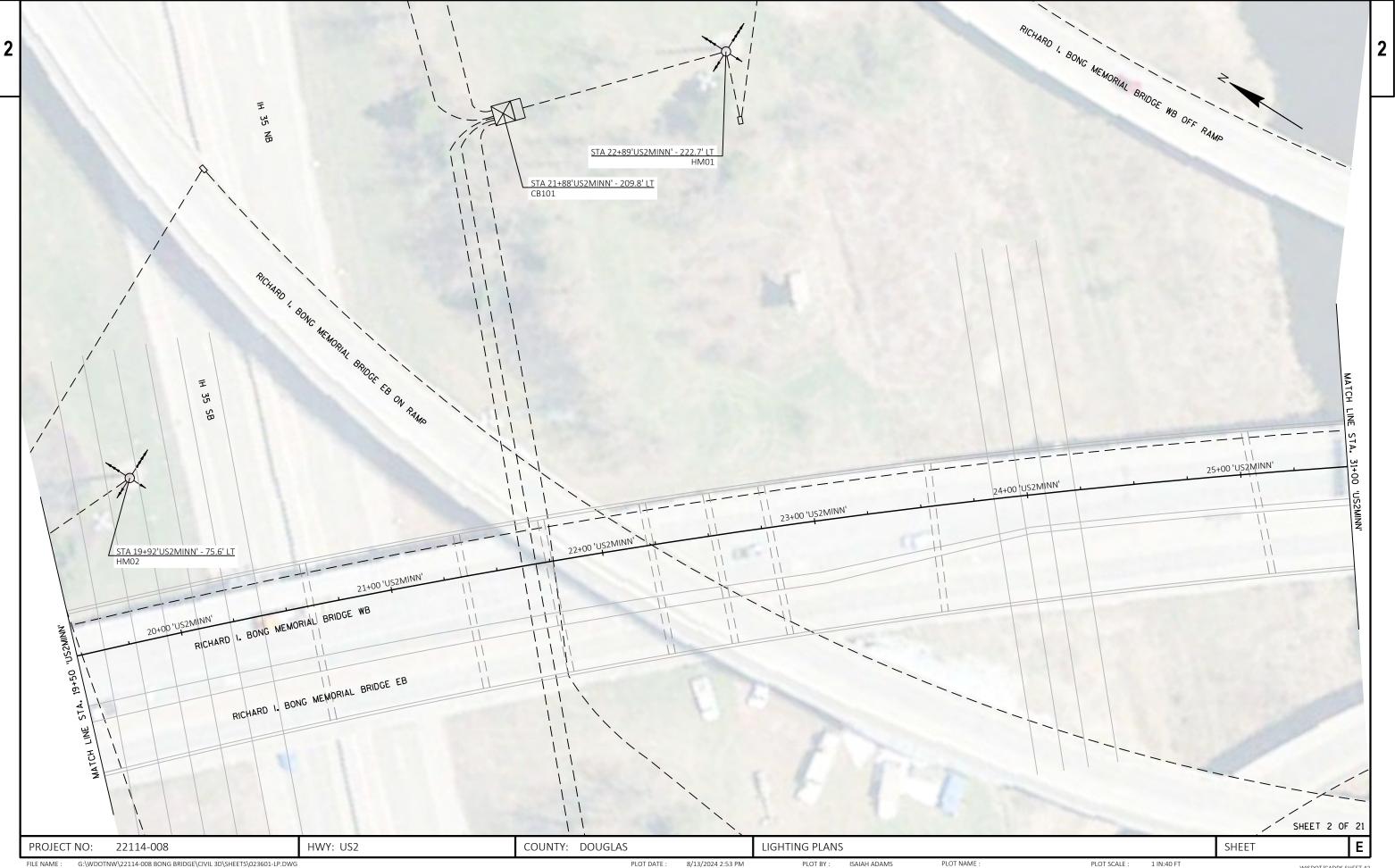
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Attachment 3 Preliminary Plans



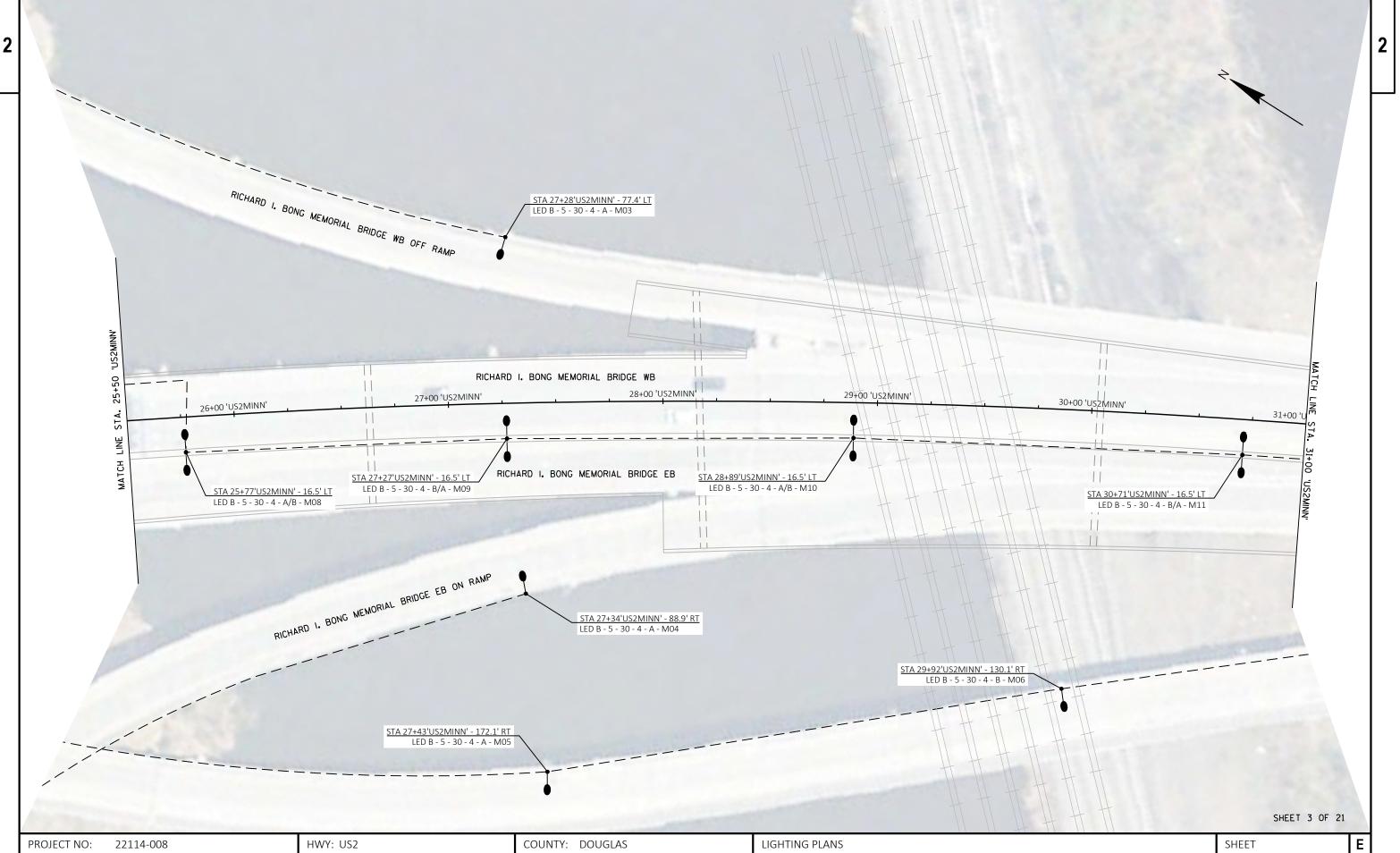
PLOT SCALE : 1 IN:1000 FT





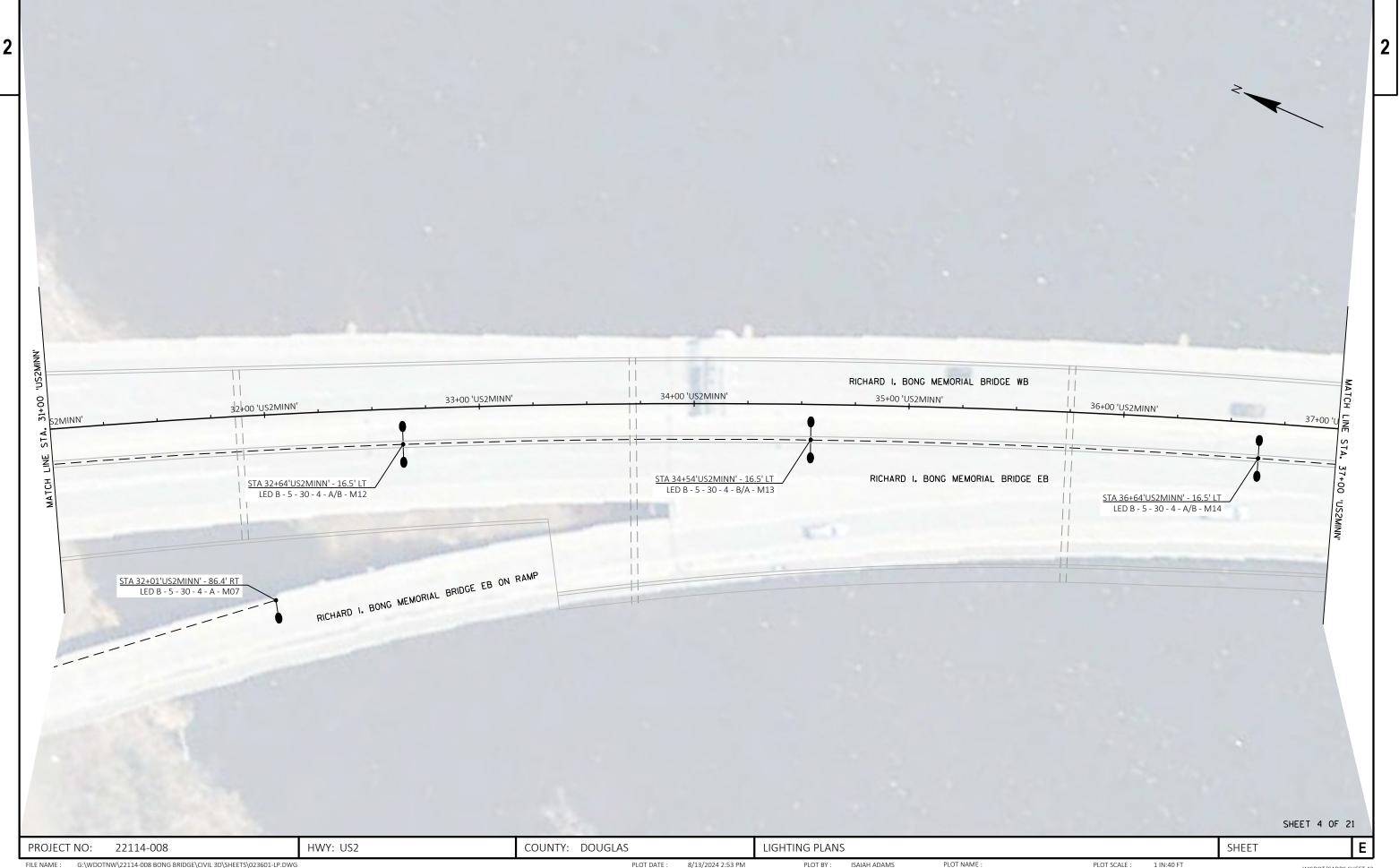
G:\WDOTNW\22114-008 BONG BRIDGE\CIVIL 3D\SHEETS\023601-LP.DWG LAYOUT NAME - 02 FILE NAME :

PLOT DATE : 8/13/2024 2:53 PM PLOT BY : ISAIAH ADAMS PLOT NAME :



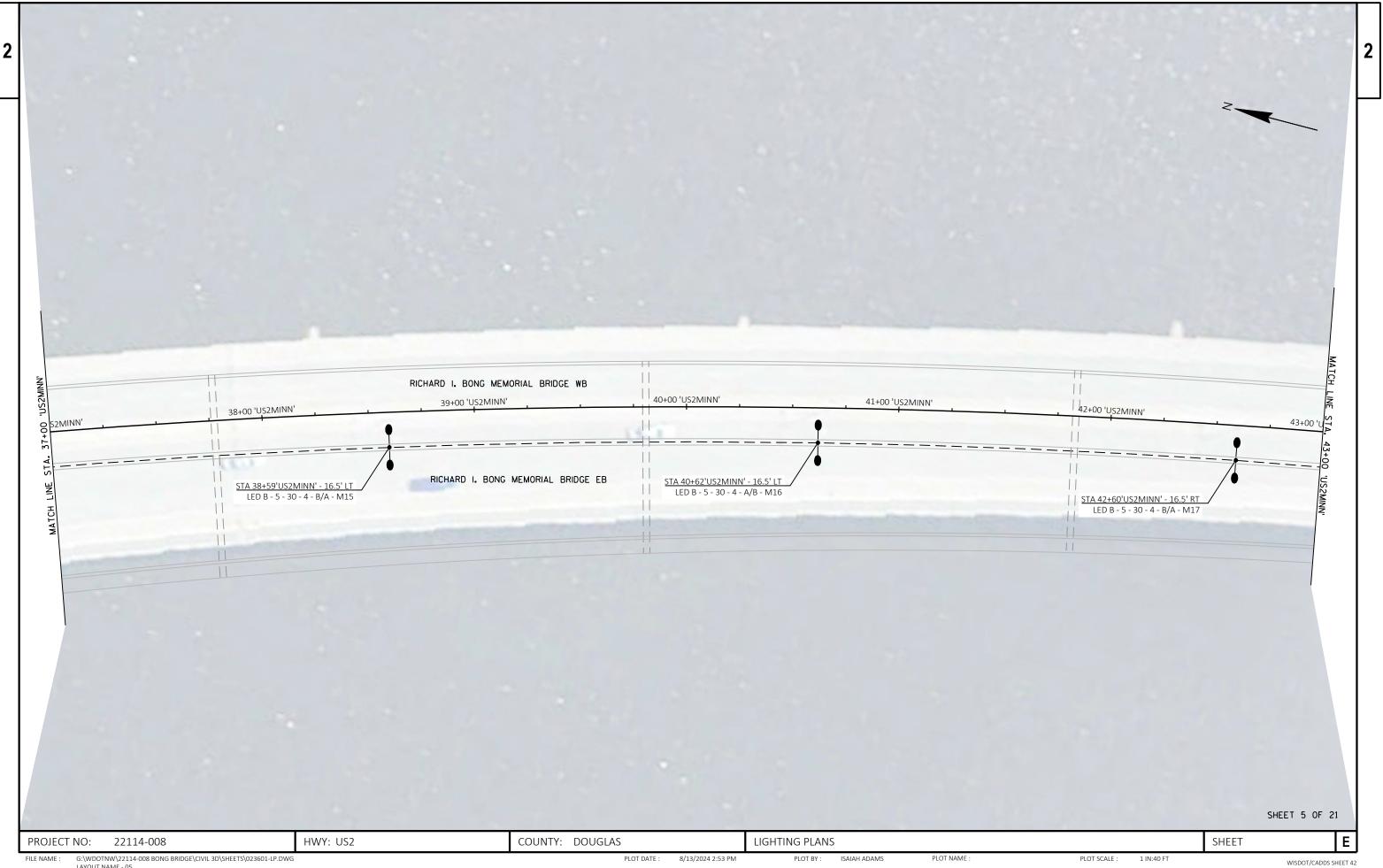
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PLOT NAME :



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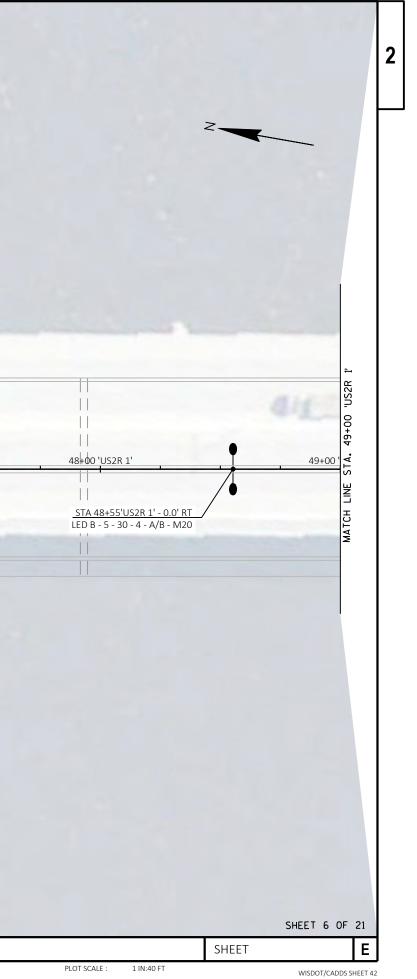
PLOT DATE : 8/13/2024 2:53 PM PLOT BY : ISAIAH ADAMS

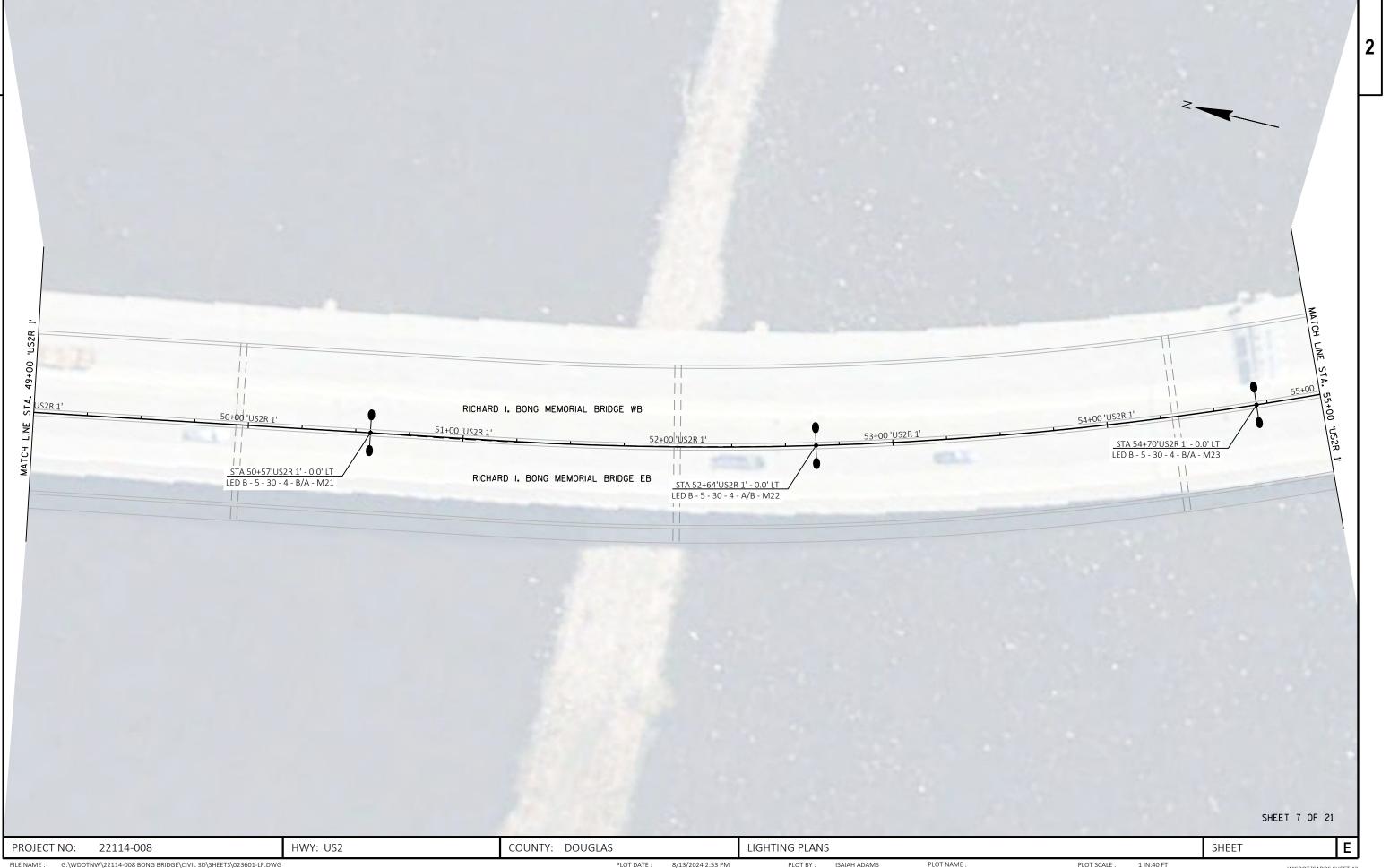


-NNIWZSU,	16		RICHARD I. BONG MEM	IORIAL BRIDGE WB		
8 s2MINN' 73+00 74		 				•
MATCH LINE ST	<u> </u>	44+00 'US2R 1'	45+00 'US2R 1' RICHARD I. BONG	MEMORIAL BRIDGE EB	46+00 'US2R 1' <u>STA 46+62'US2R 1' - 0.0' LT</u> LED B - 5 - 30 - 4 - B/A - M19	47+00 'US2R 1'
W						
PROJECT NO:	22114-008	HWY: US2	C	OUNTY: DOUGLAS	LIGHTING PL	ANS

2

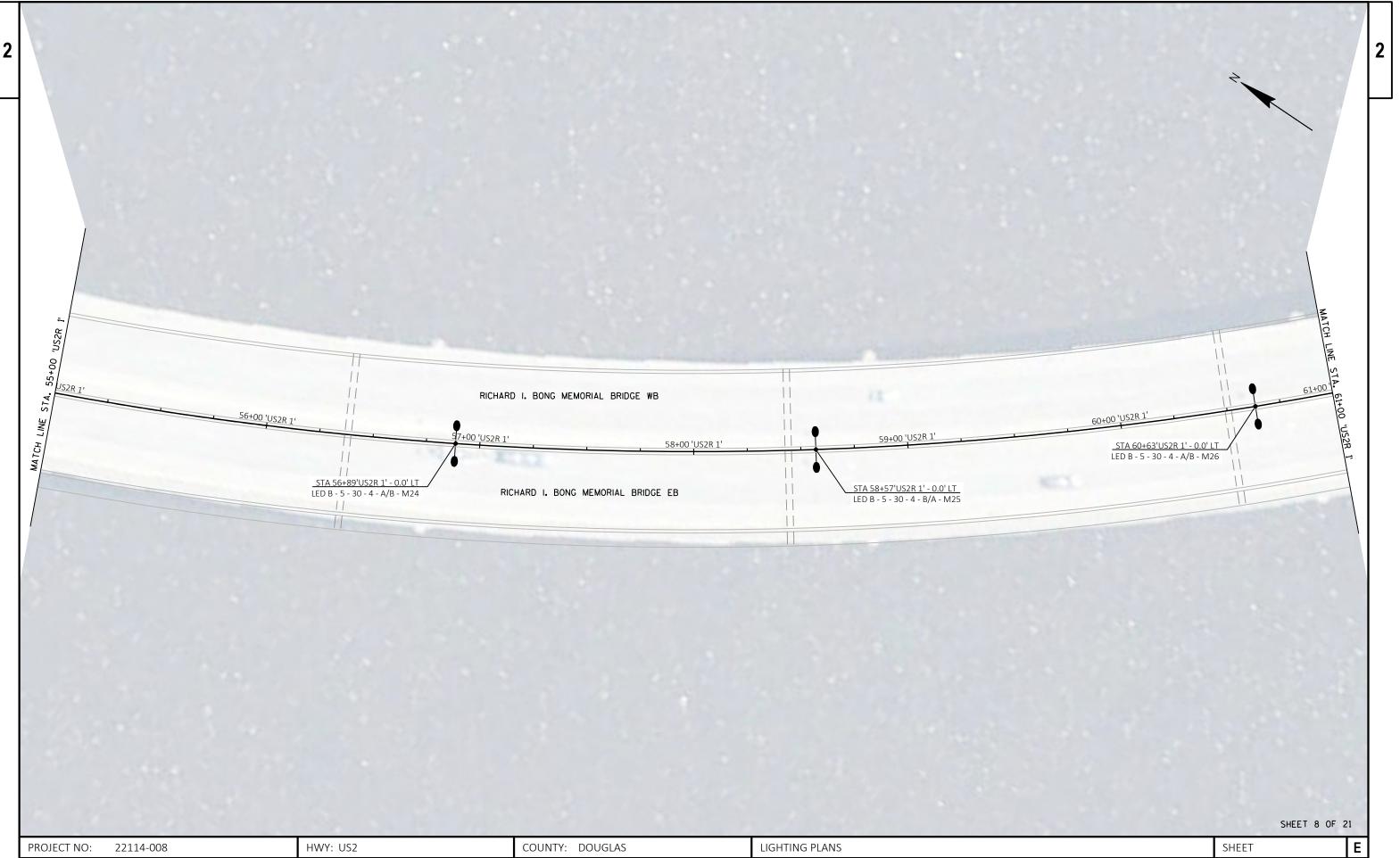
PLOT NAME :

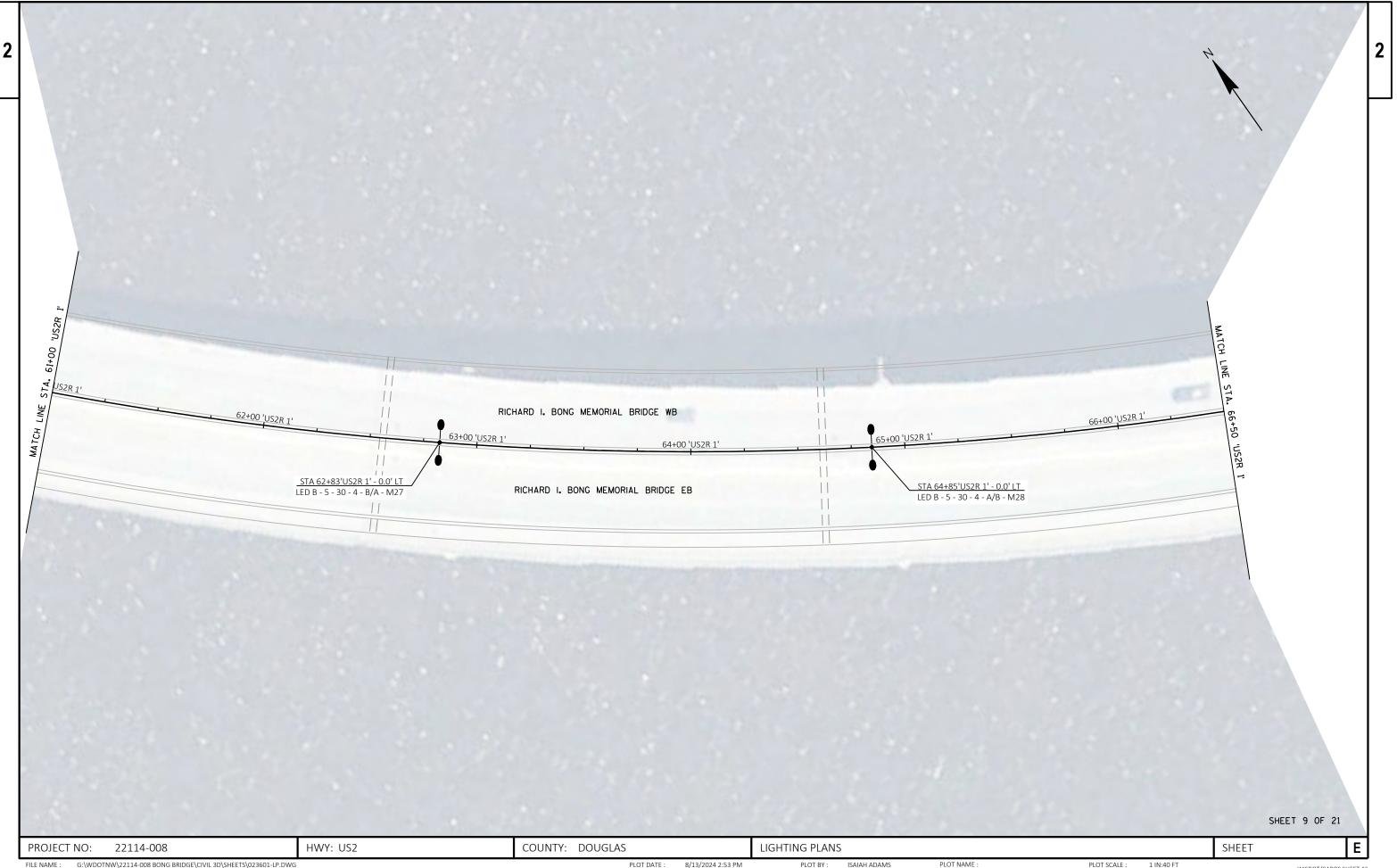


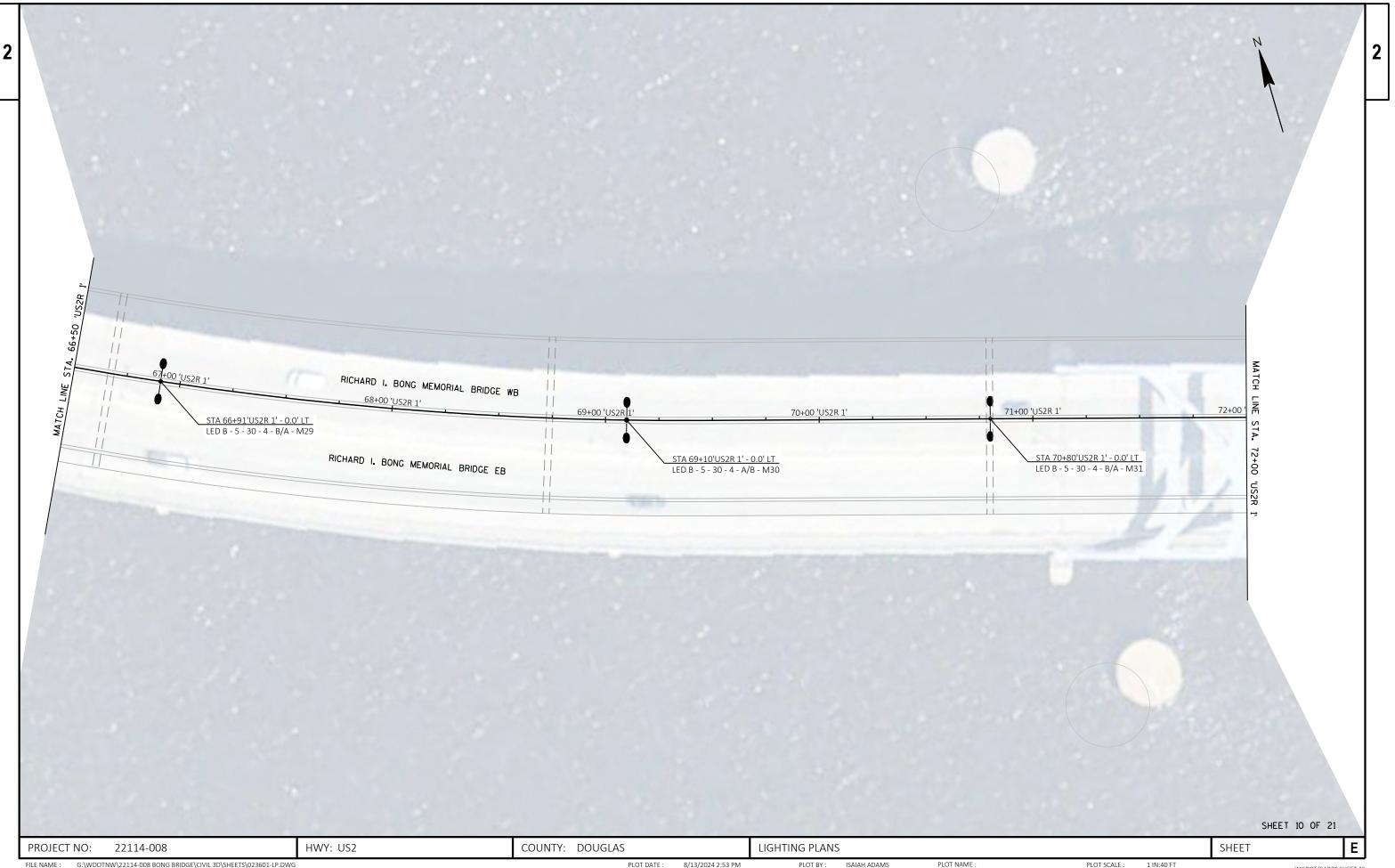


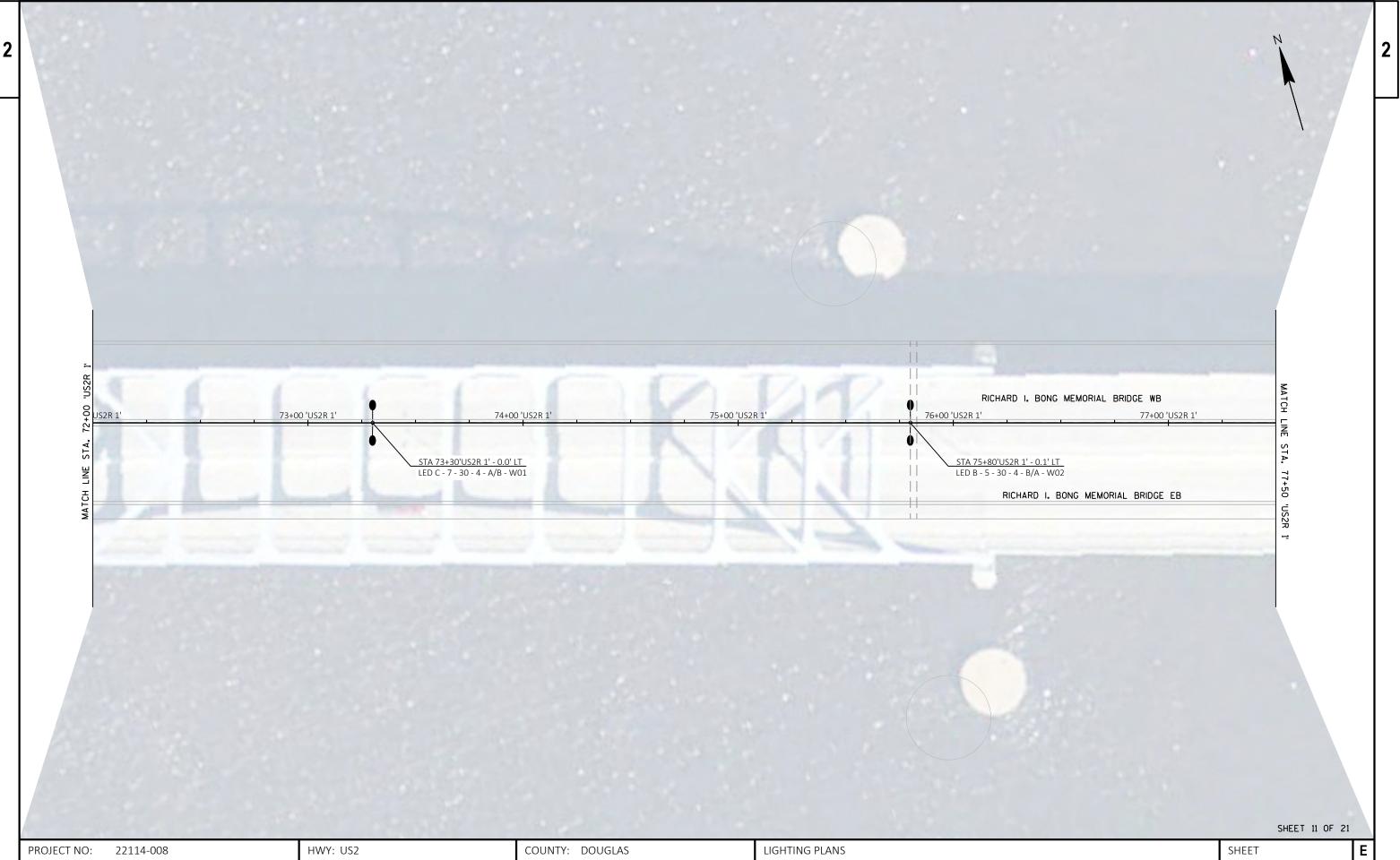
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WISDOT/CADDS SHEET 42

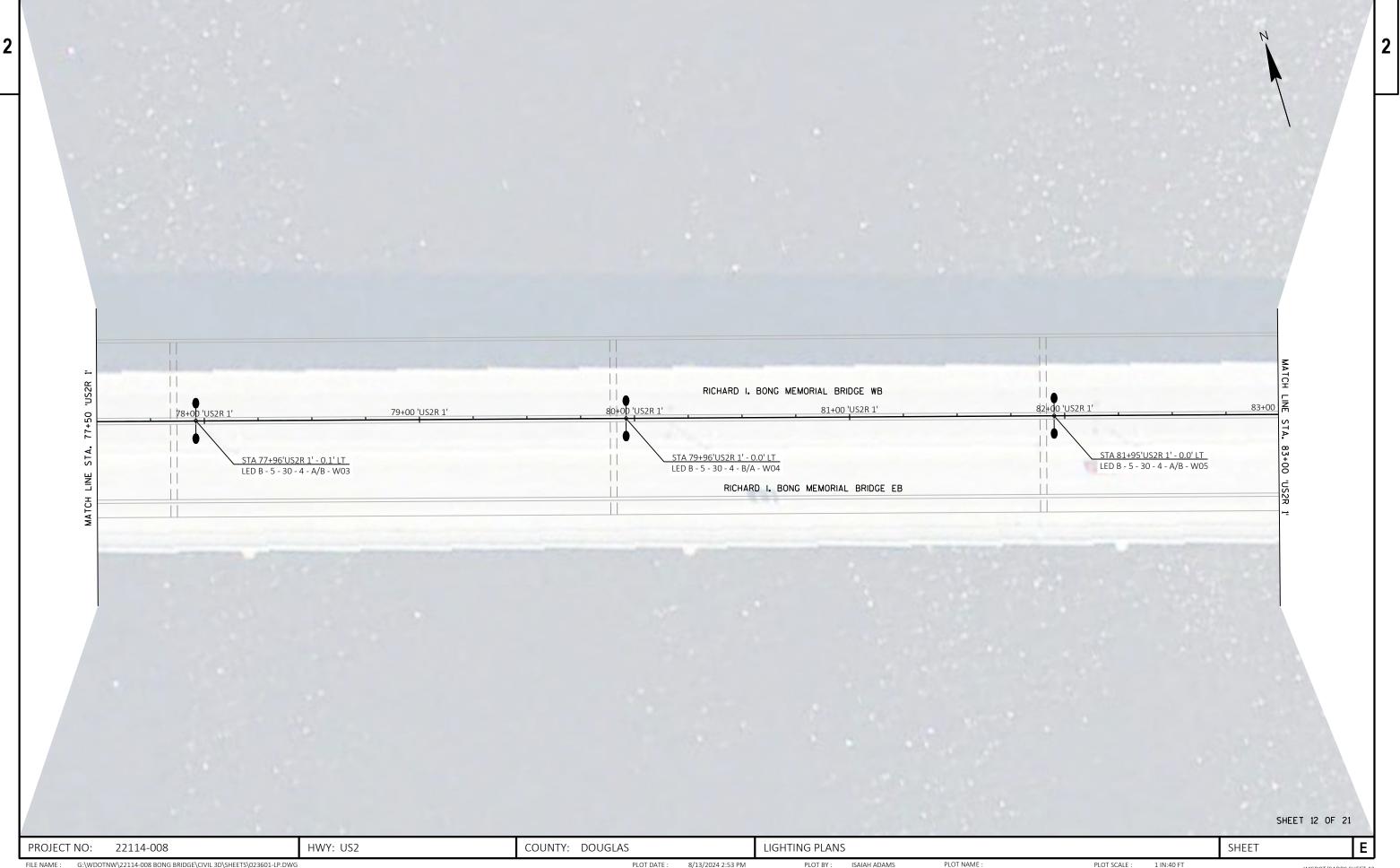


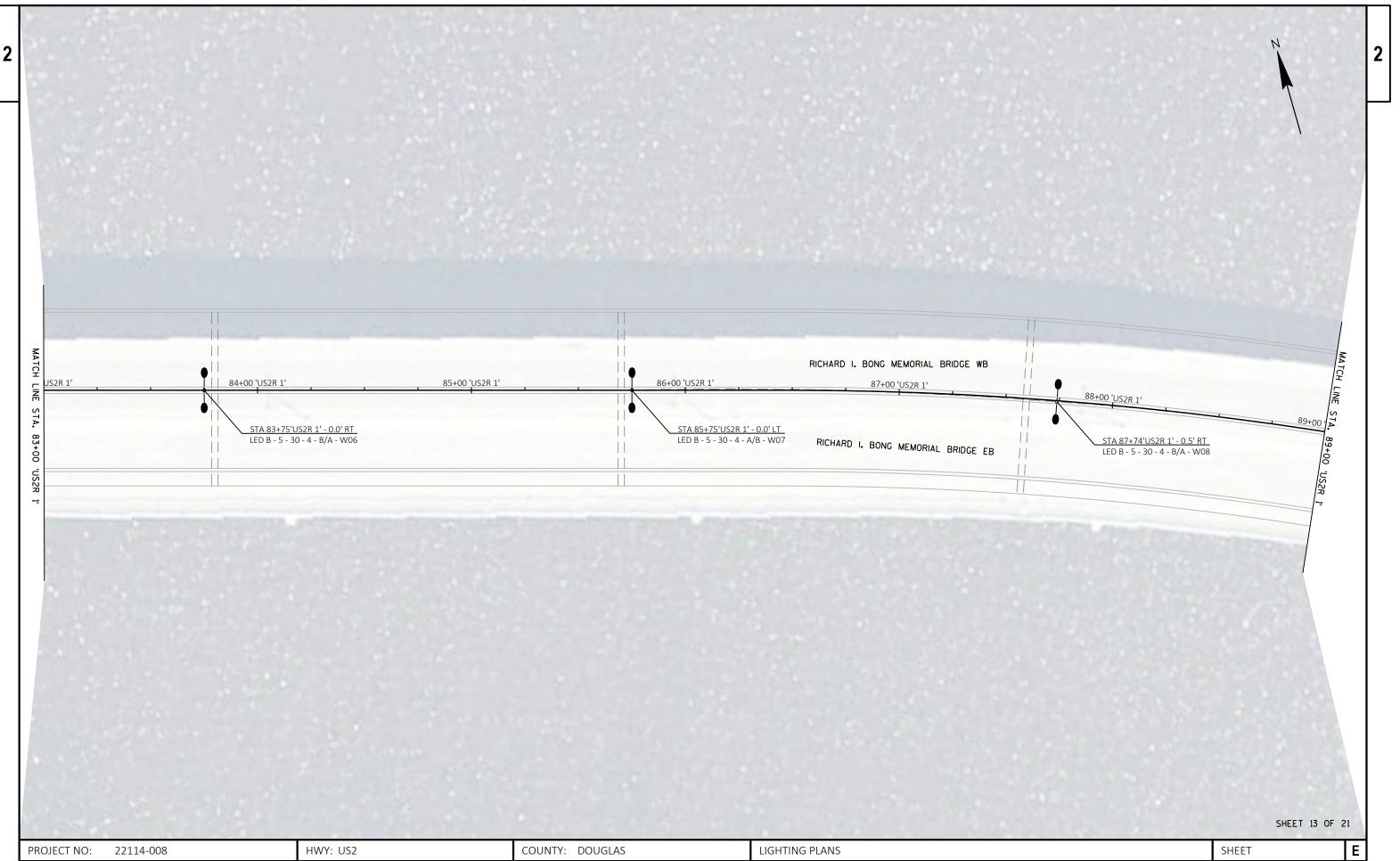




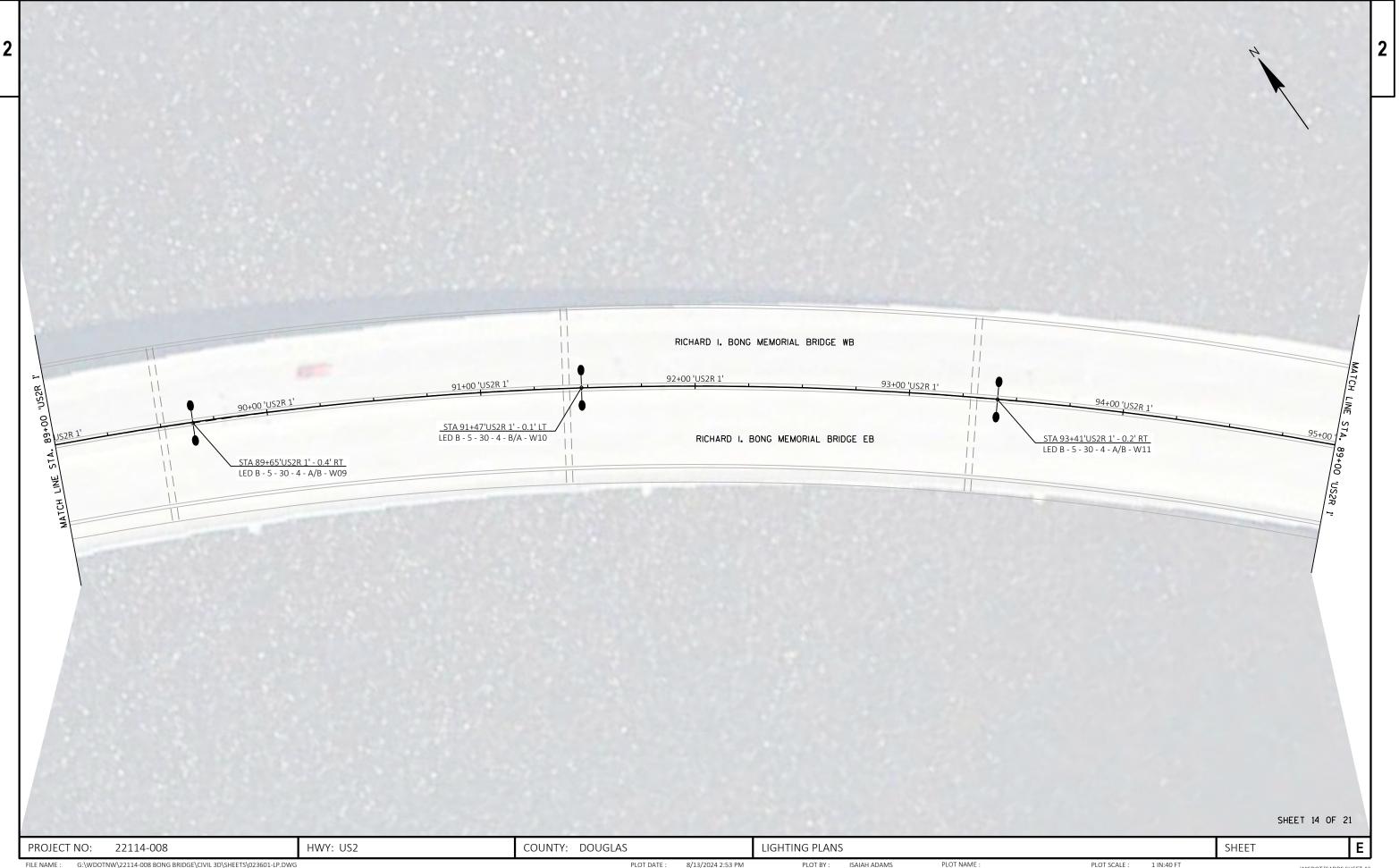


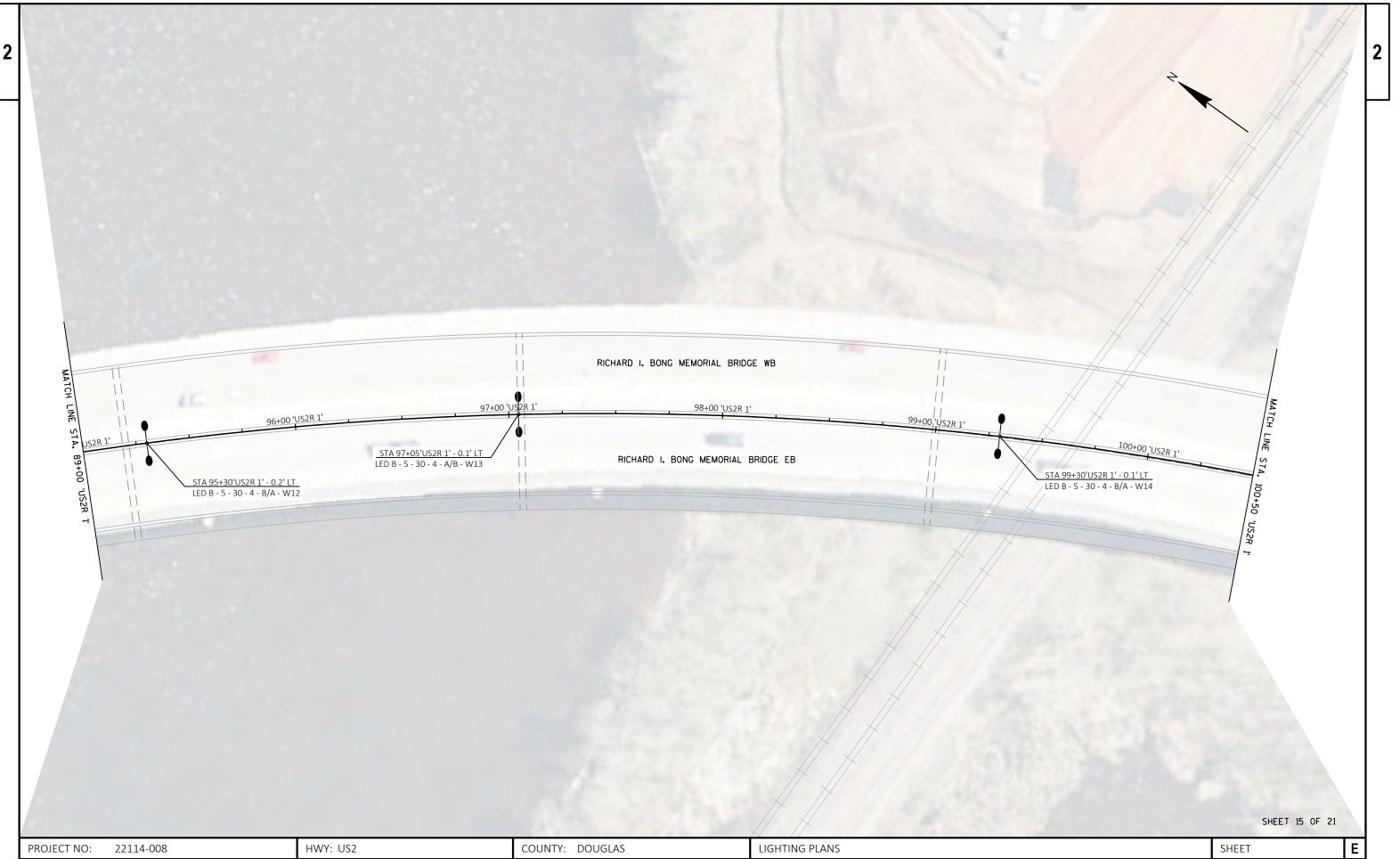
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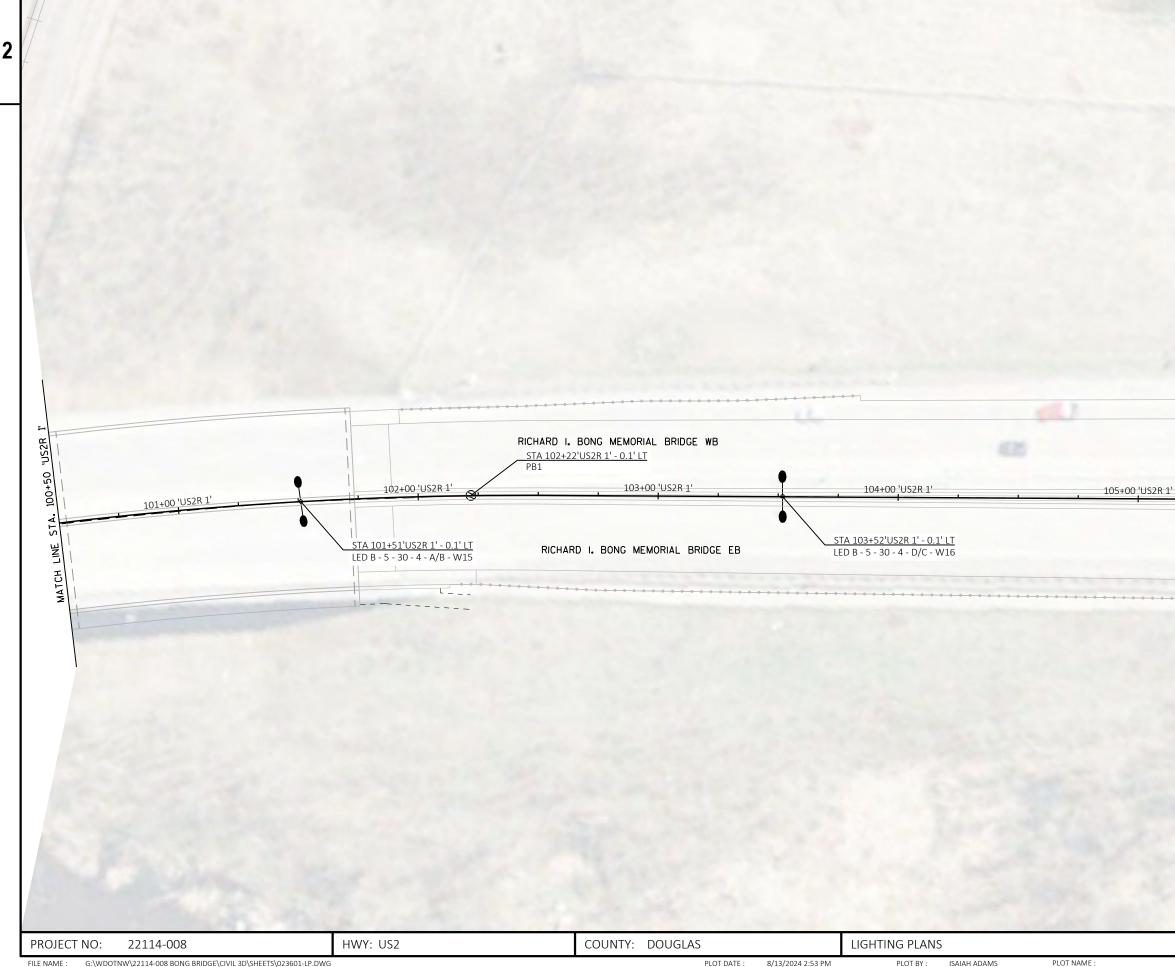




PLOT NAME :





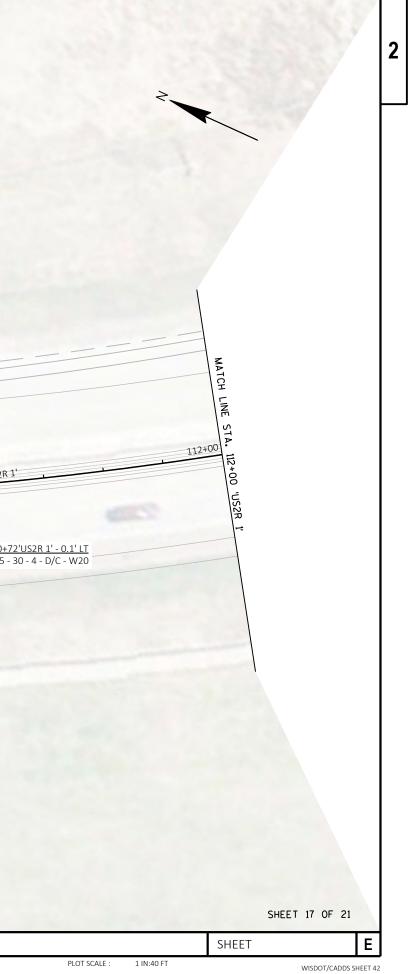


2 MATCH LINE STA, 106+00 'US2R 1' 106+50 STA 105+32'US2R 1' - 0.1' LT 'US2R LED B - 5 - 30 - 4 - C/D - W17 SHEET 16 OF 21 SHEET Ε

 \geq

MATCH LINE STA. 106+50 'US2R 'I'	RCHARD I. BONG MEMORIAL BRIDGE WB ID8+00 'US2R 1' <	109H00'US2R 1' STA 108+92'US2R 1'-0.3' LT LED B - 5 - 30 - 4 - C/D - W19	110+00 'US2R 1'	111+00 ⁻¹ US2R 5TA 110+ LED B - 5

2

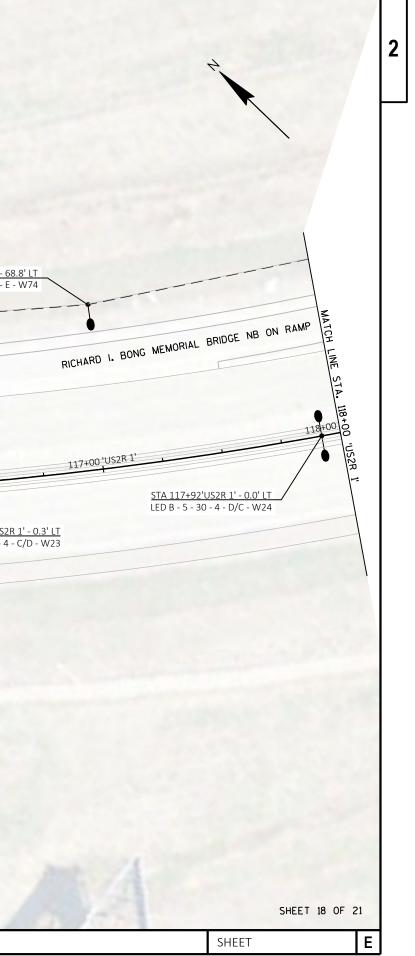


112+00 'US2R 1'	STA 113+41'US2R 1' - 64.1' LT LED B - 5 - 30 - 4 - E - W76	<u>STA 115+20'US2R 1' - 67.2' LT</u> LED B - 5 - 30 - 4 - E - W75	<u>STA 117+02'US2R 1' -</u> LED B - 5 - 30 - 4 -
MATCH LINE STA. 112	<u>113+00 'US2R 1'</u> <u>STA 112+52'US2R 1' - 0.3' LT</u> LED B - 5 - 30 - 4 - C/D - W21	RICHARD I. BONG MEMORIAL BRIDGE WB	116+00 'US2R ' STA 116+12'US LED B - 5 - 30 - 4
PROJECT NO:	22114-008 HWY: US2	COUNTY: DOUGLAS LIGHTING	PLANS

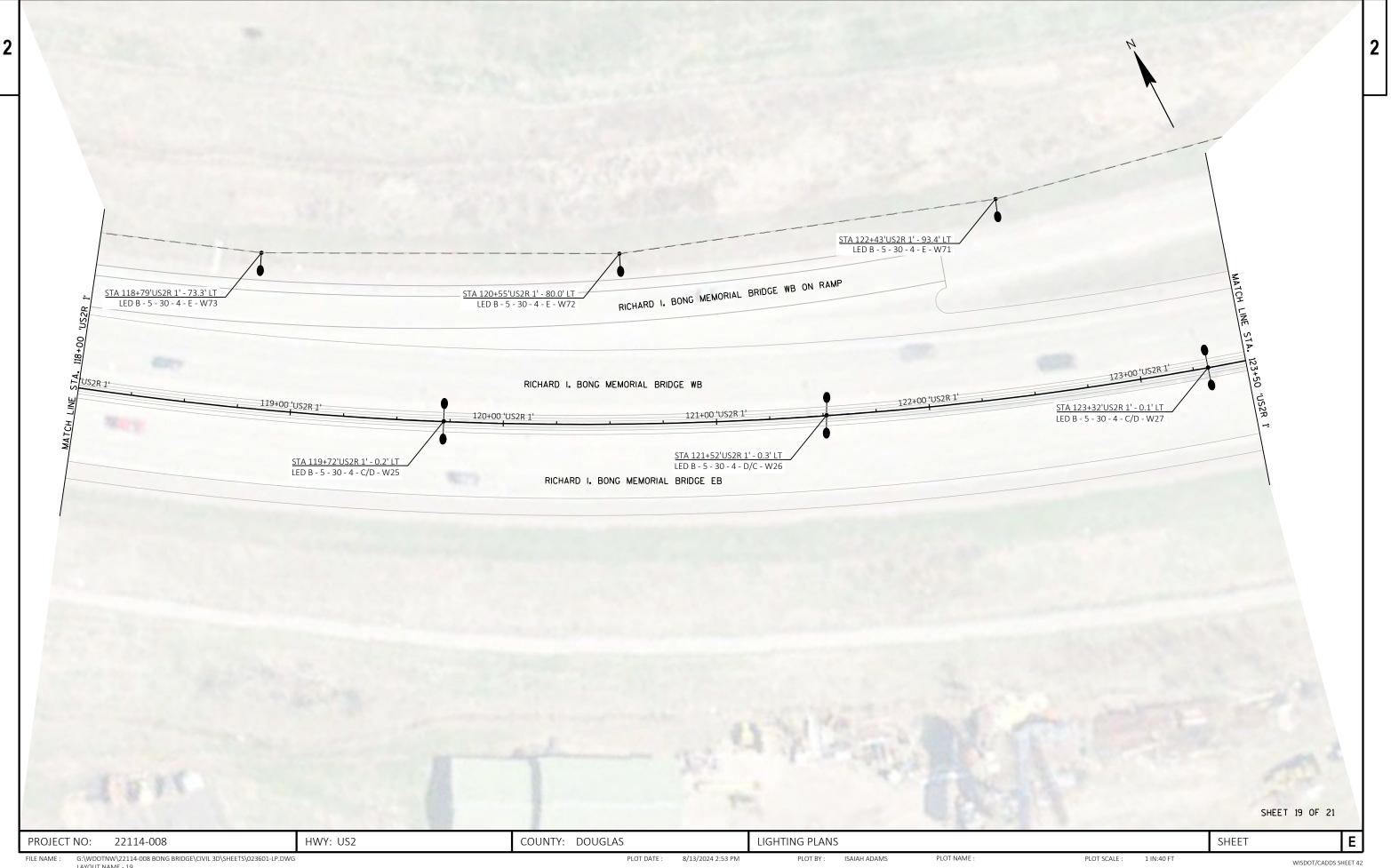
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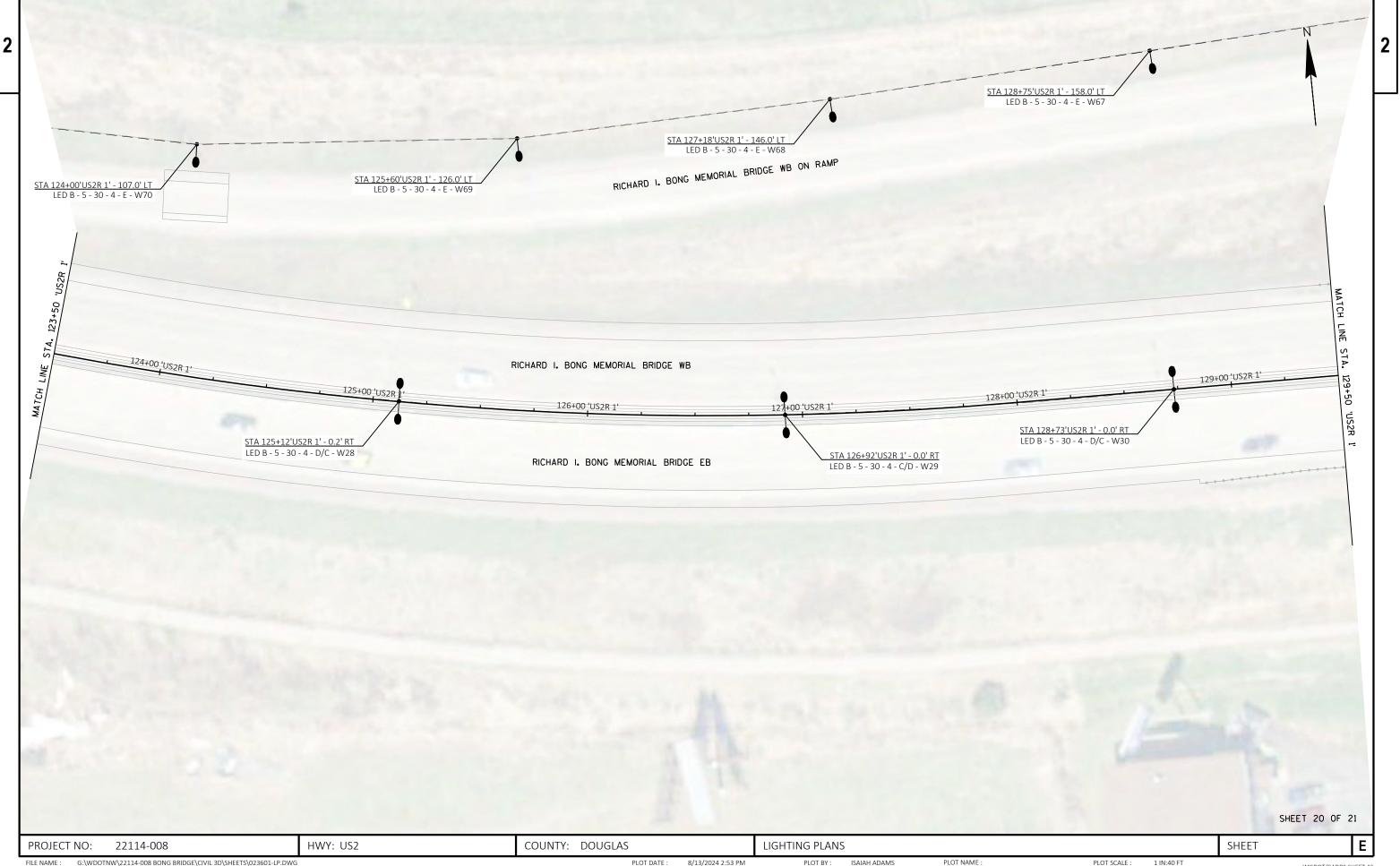
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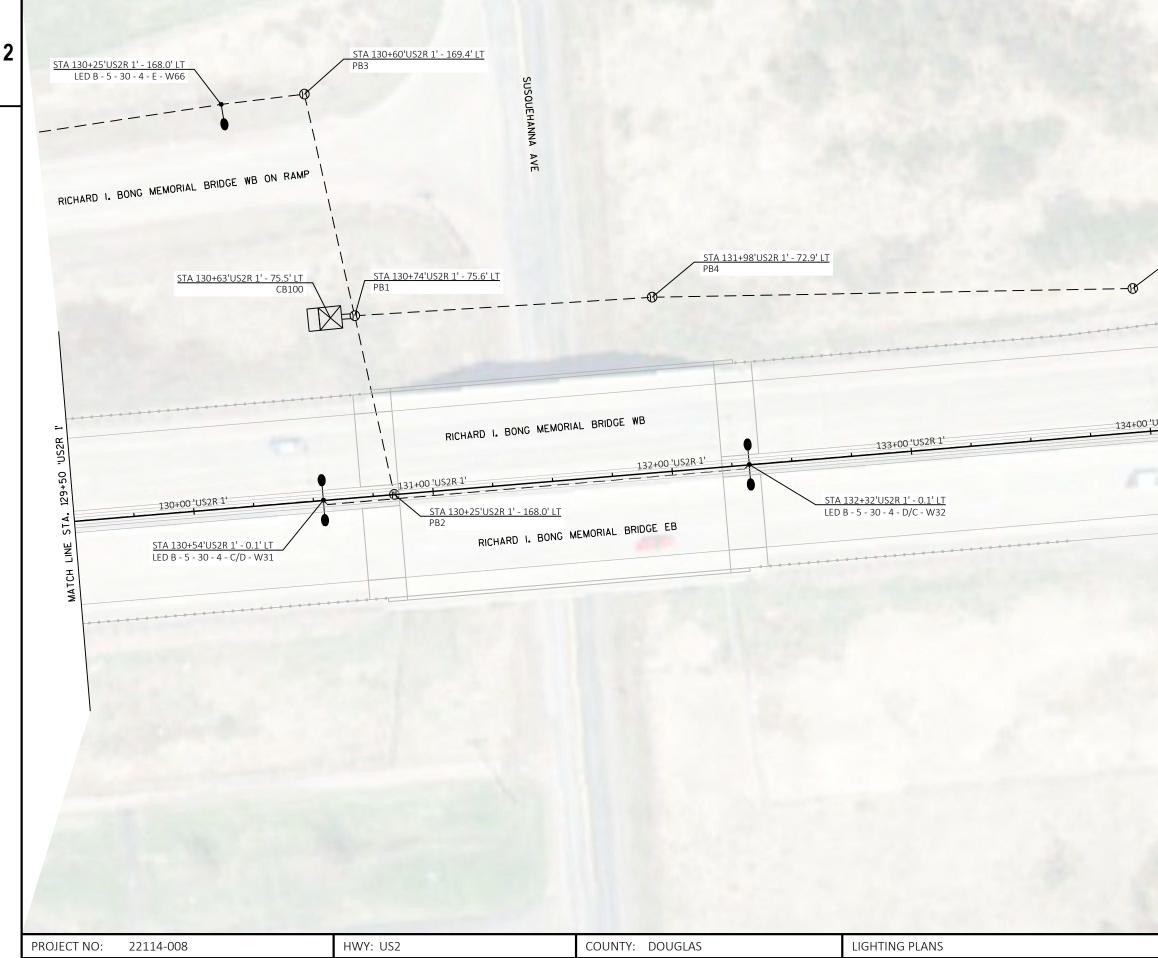
PLOT DATE : 8/13/2024 2:53 PM PLOT BY : ISAIAH ADAMS



PLOT NAME :

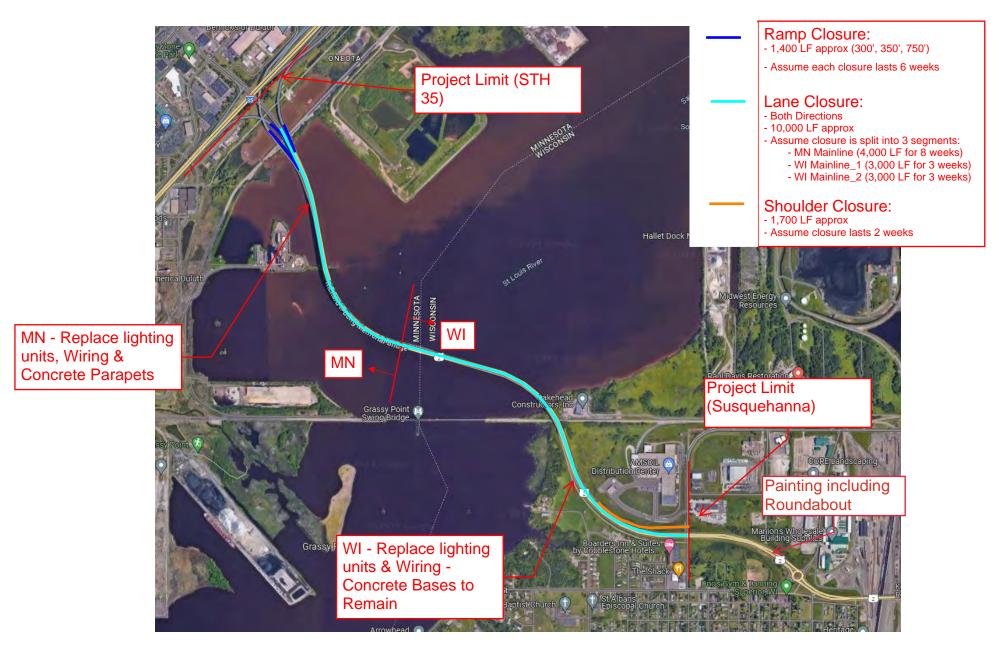




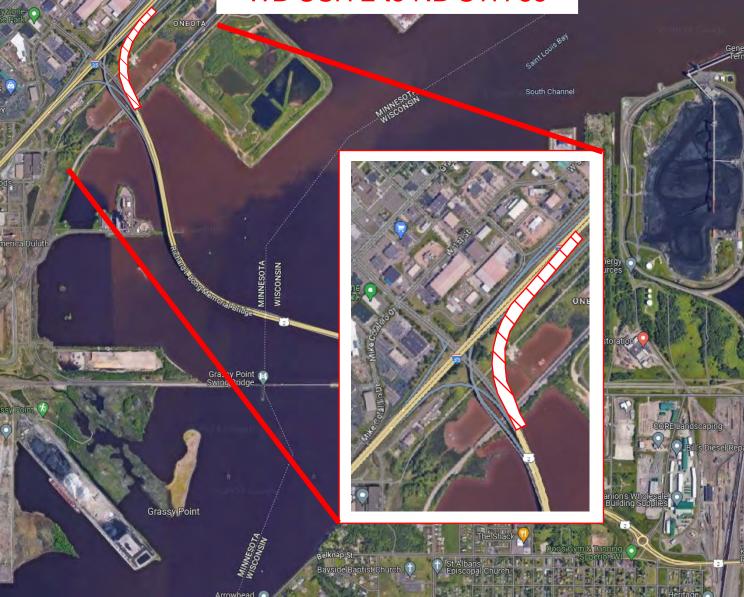


		N	2
<u>STA 133+98'US2R 1' - 60.0' LT</u> PB5			
IS2R	<u>D' LT</u> W33		
	SHEET	EET 21 OF 2	1 E

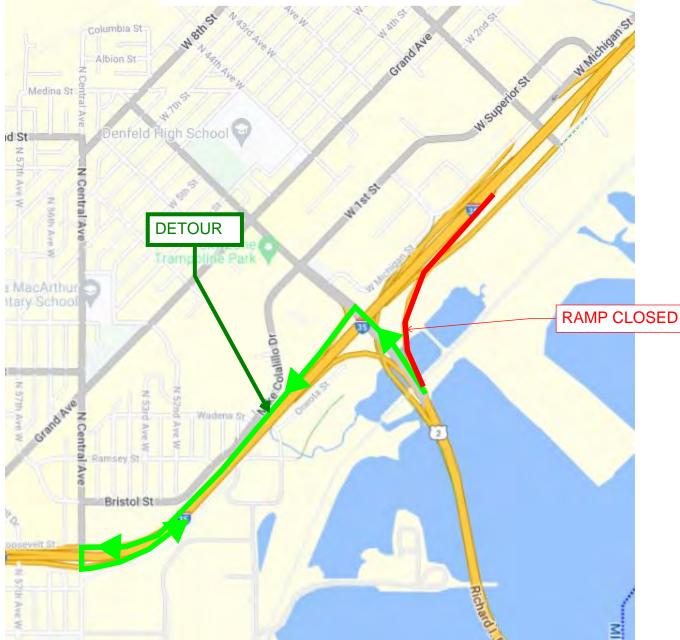
Traffic Control Overview



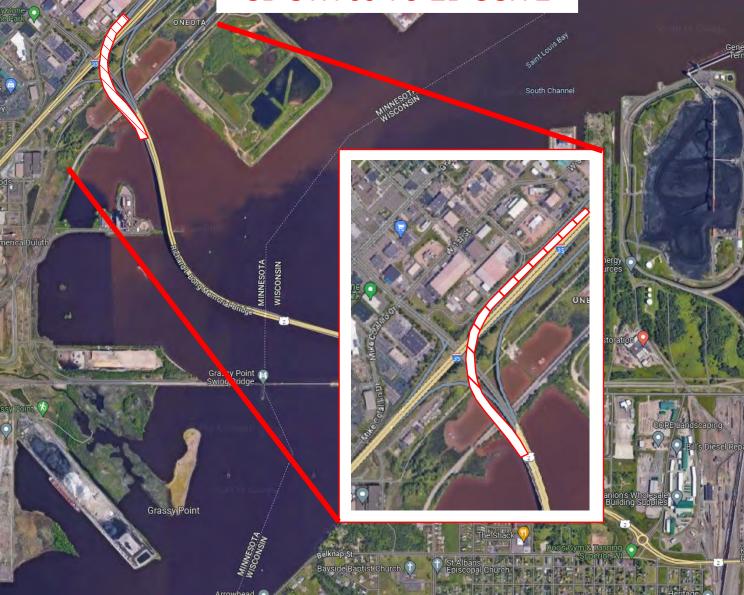
WB USH 2 to NB STH 35



WB USH 2 to NB STH 35



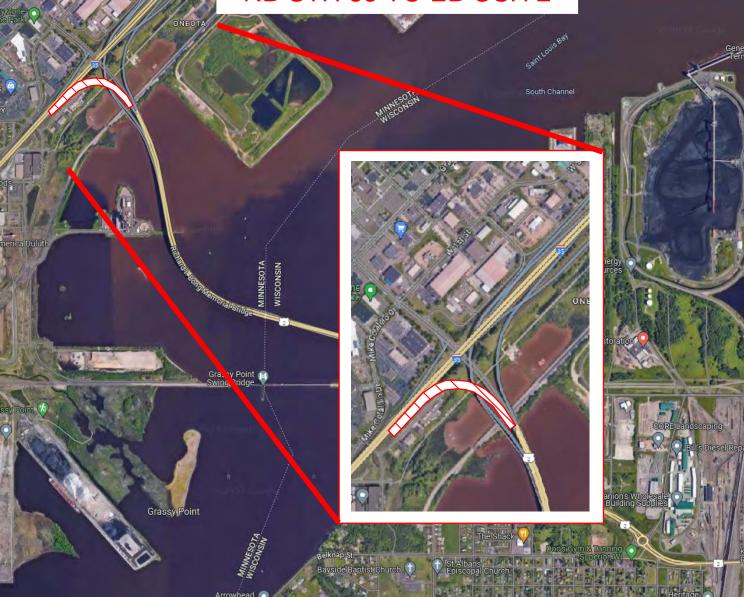


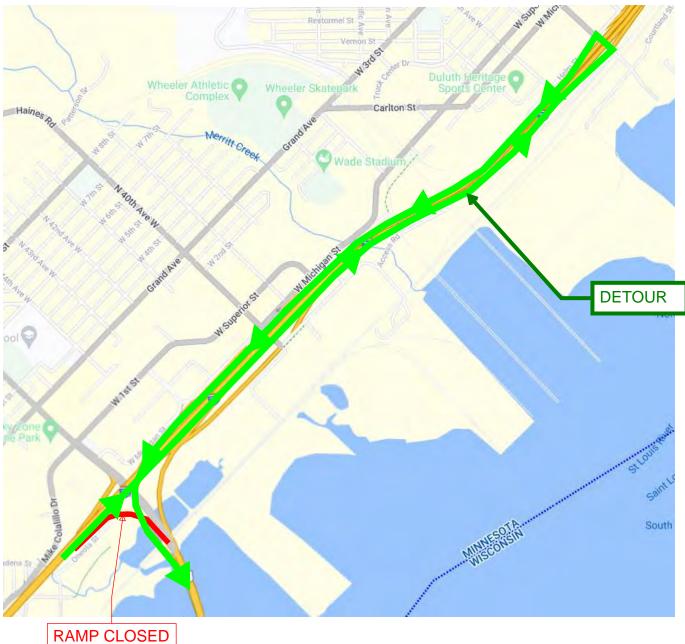


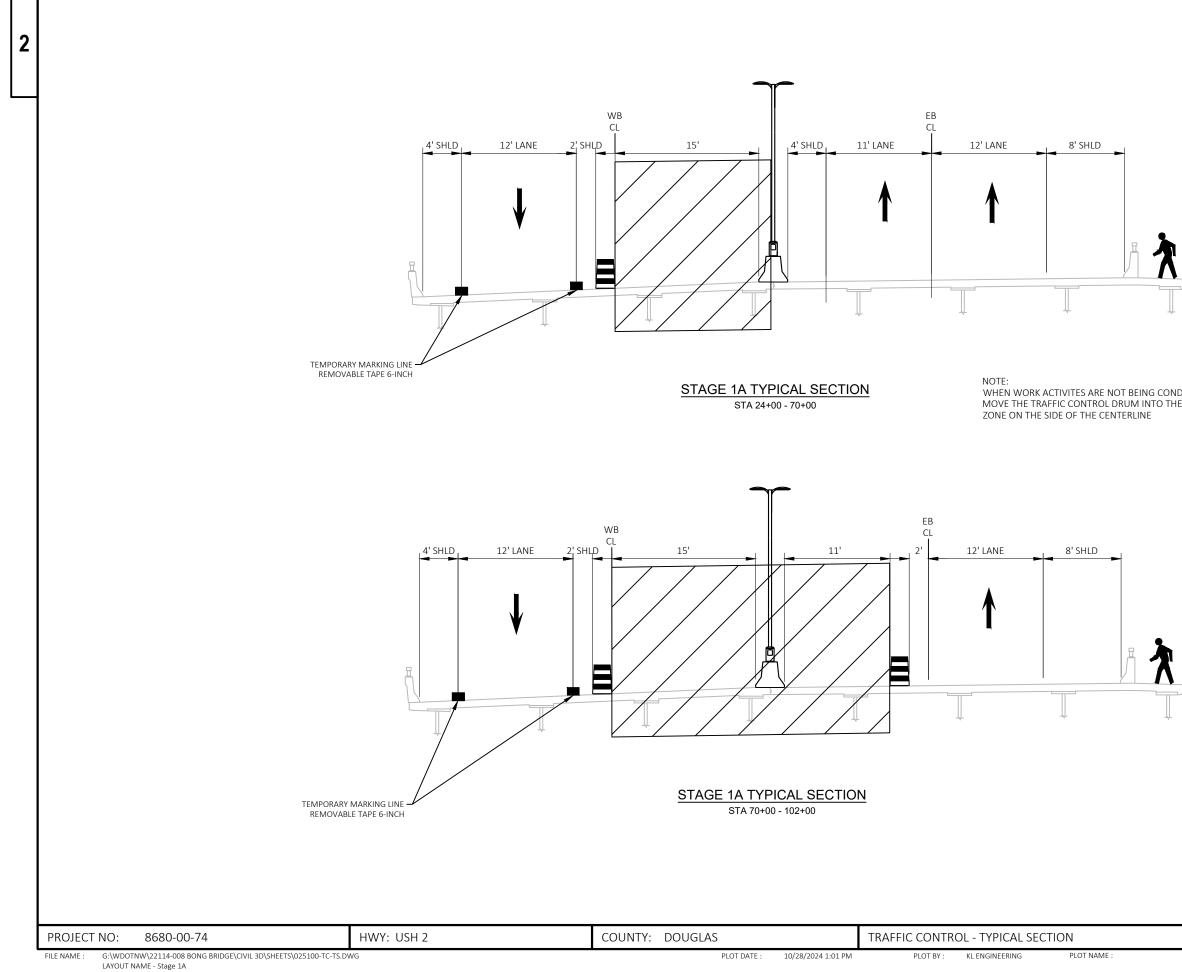
Ramp Closure SB STH 35 TO EB USH 2





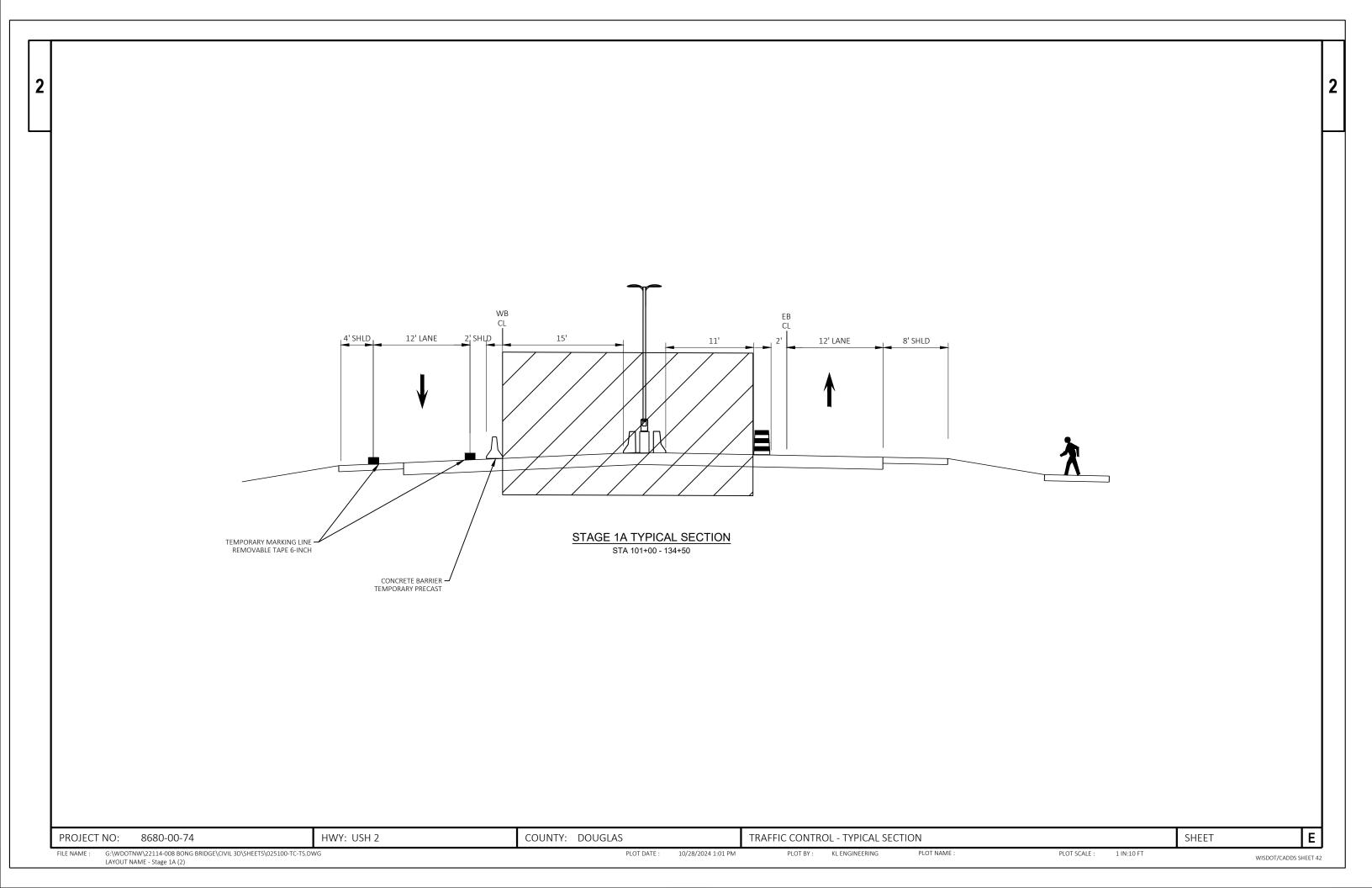


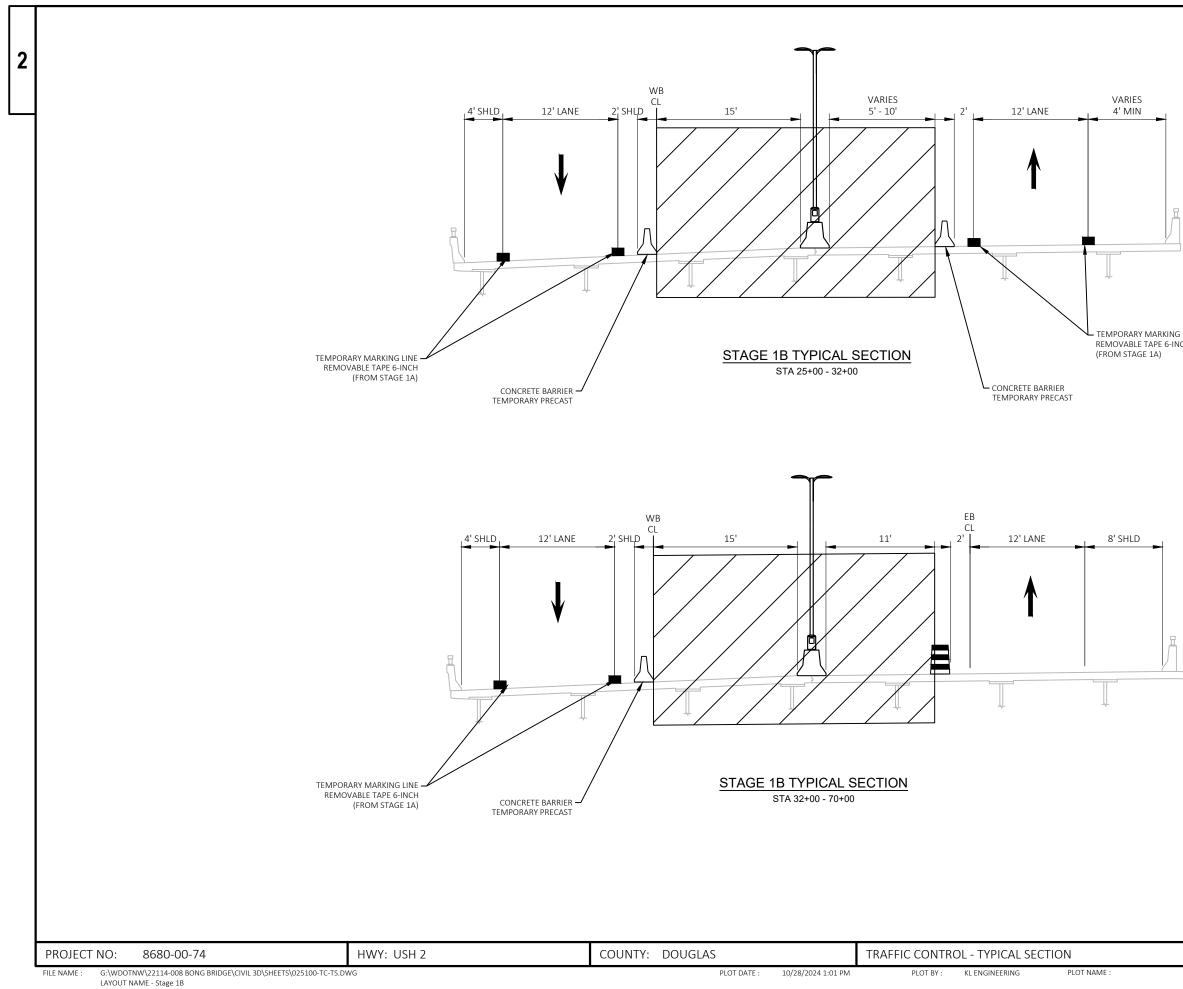




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NDUCTED, HE WORK			
	SHEET	E	

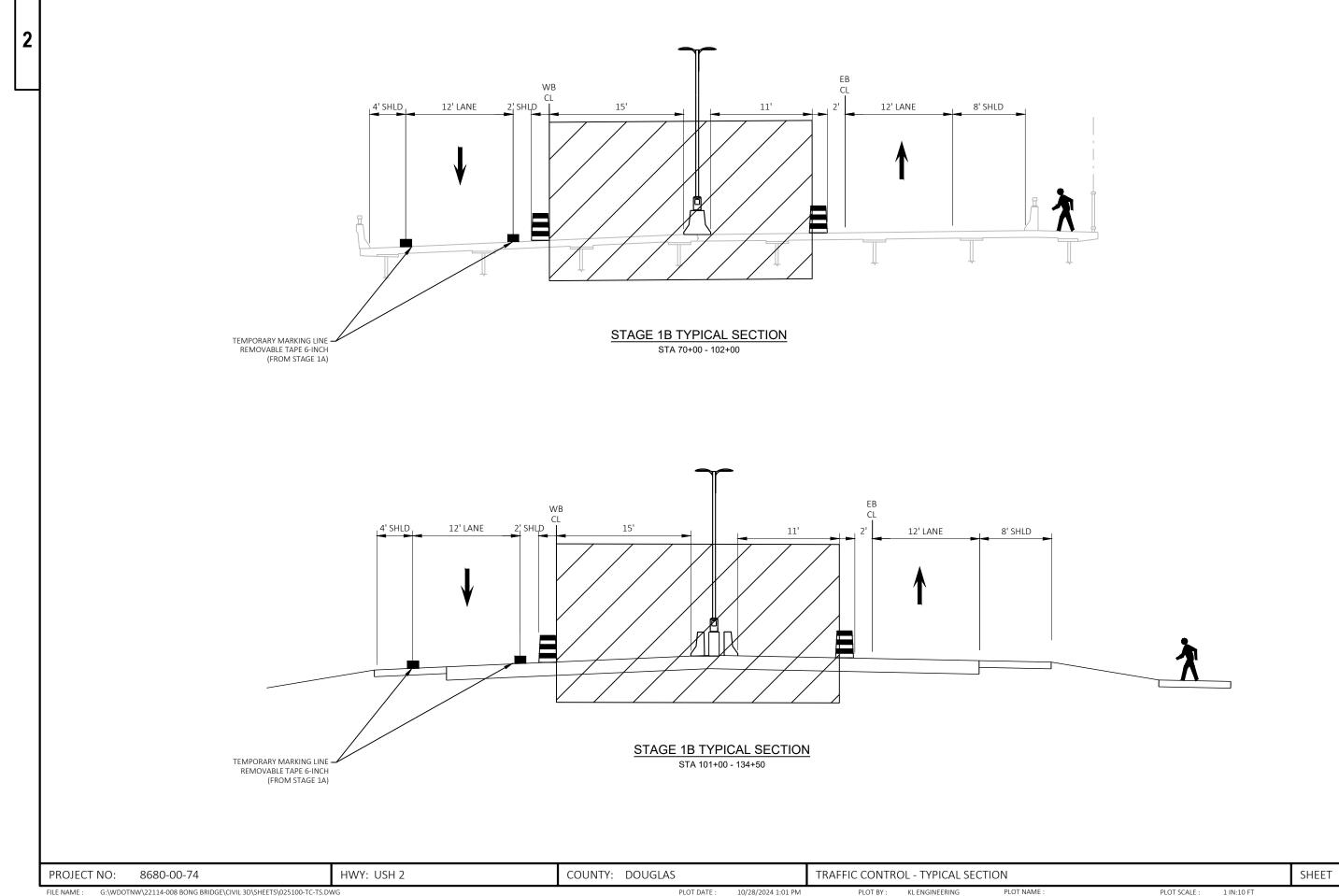
PLOT SCALE : 1 IN:10 FT





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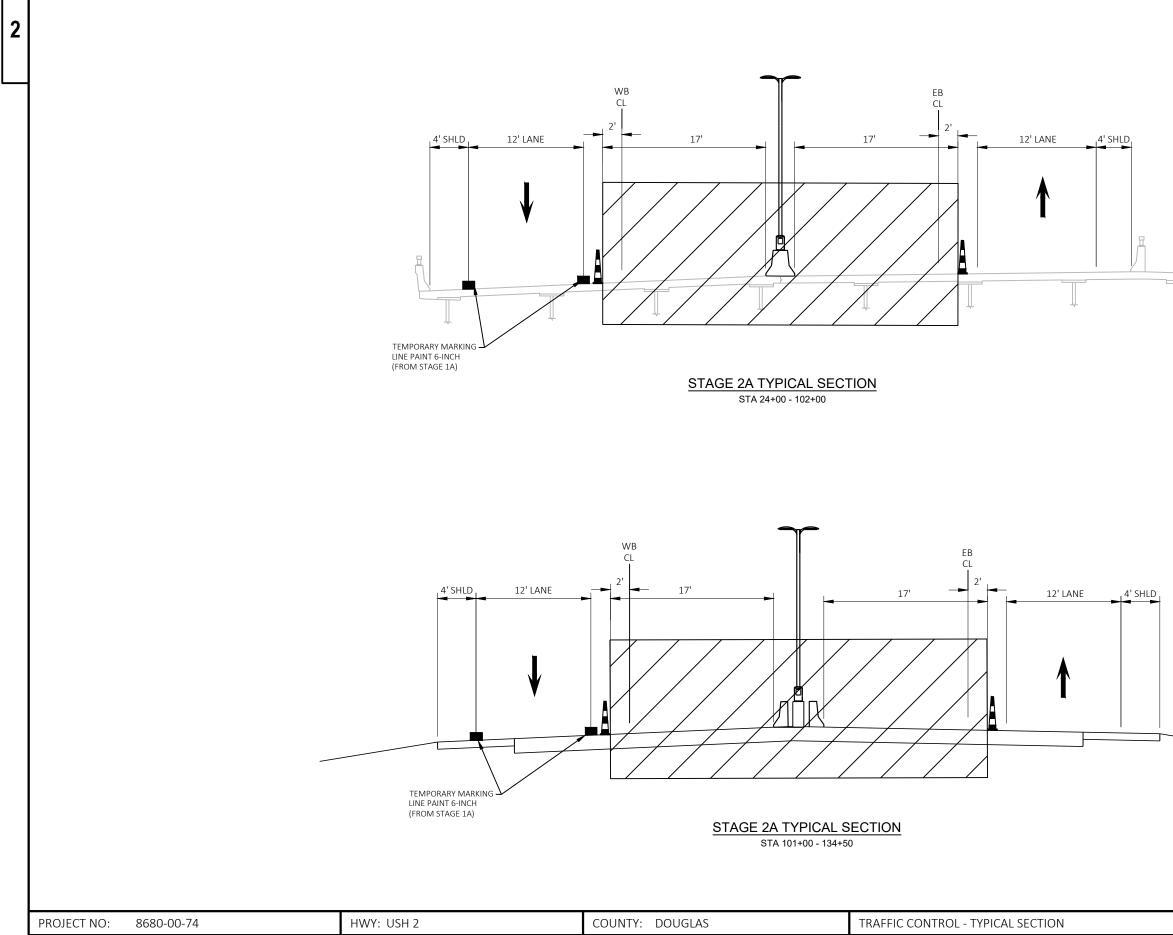
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WISDOT/CADDS SHEET 42

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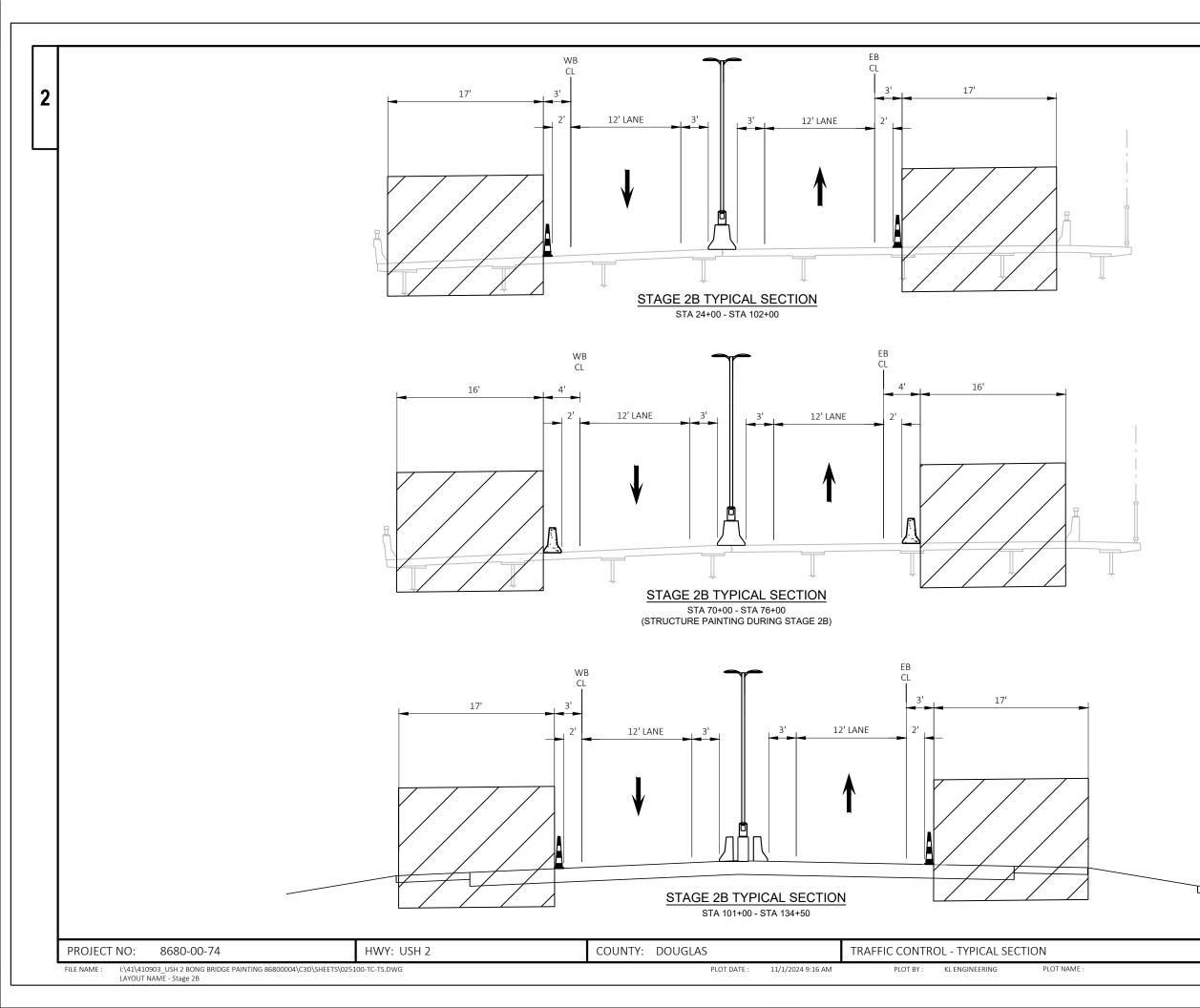


FILE NAME : I:\41\410903_USH 2 BONG BRIDGE PAINTING 86800004\C3D\SHEETS\025100-TC-TS.DWG LAYOUT NAME - Stage 2A

		2
SHEET	E	

PLOT DATE : 11/1/2024 9:16 AM PLOT BY

PLOT BY : KL ENGINEERING PLOT NAME :

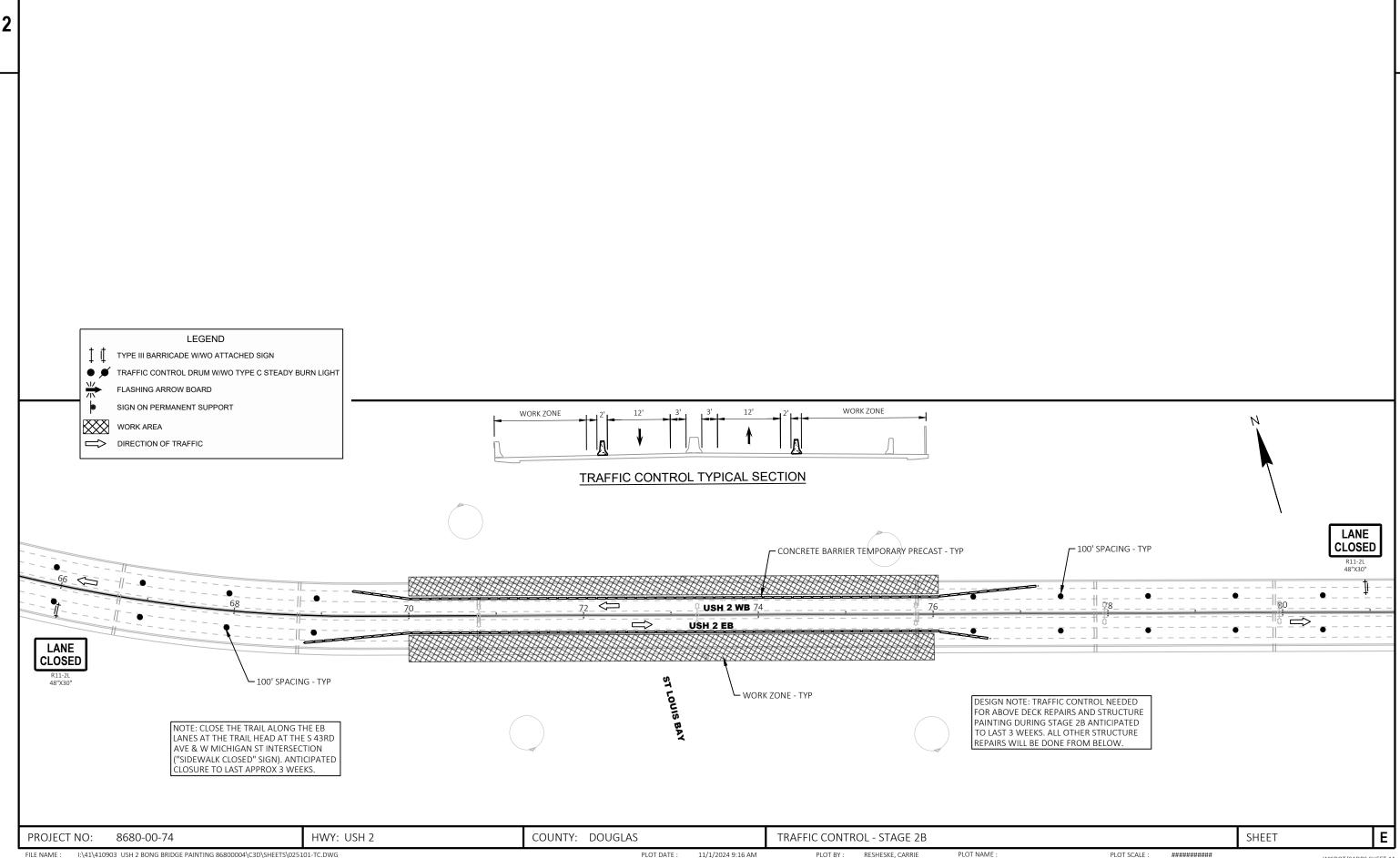


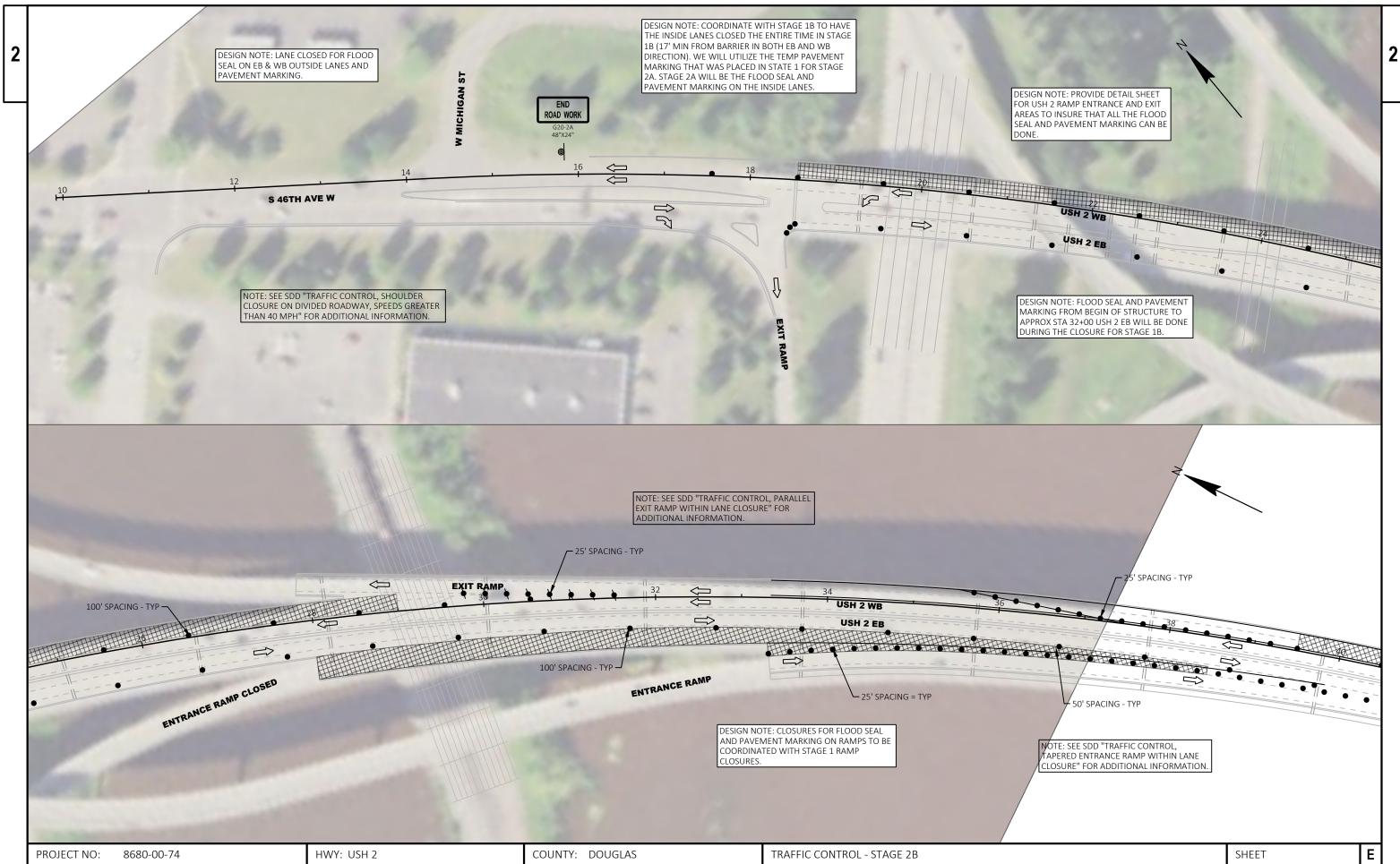
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4	L	

SHEET

WISDOT/CADDS SHEET 42

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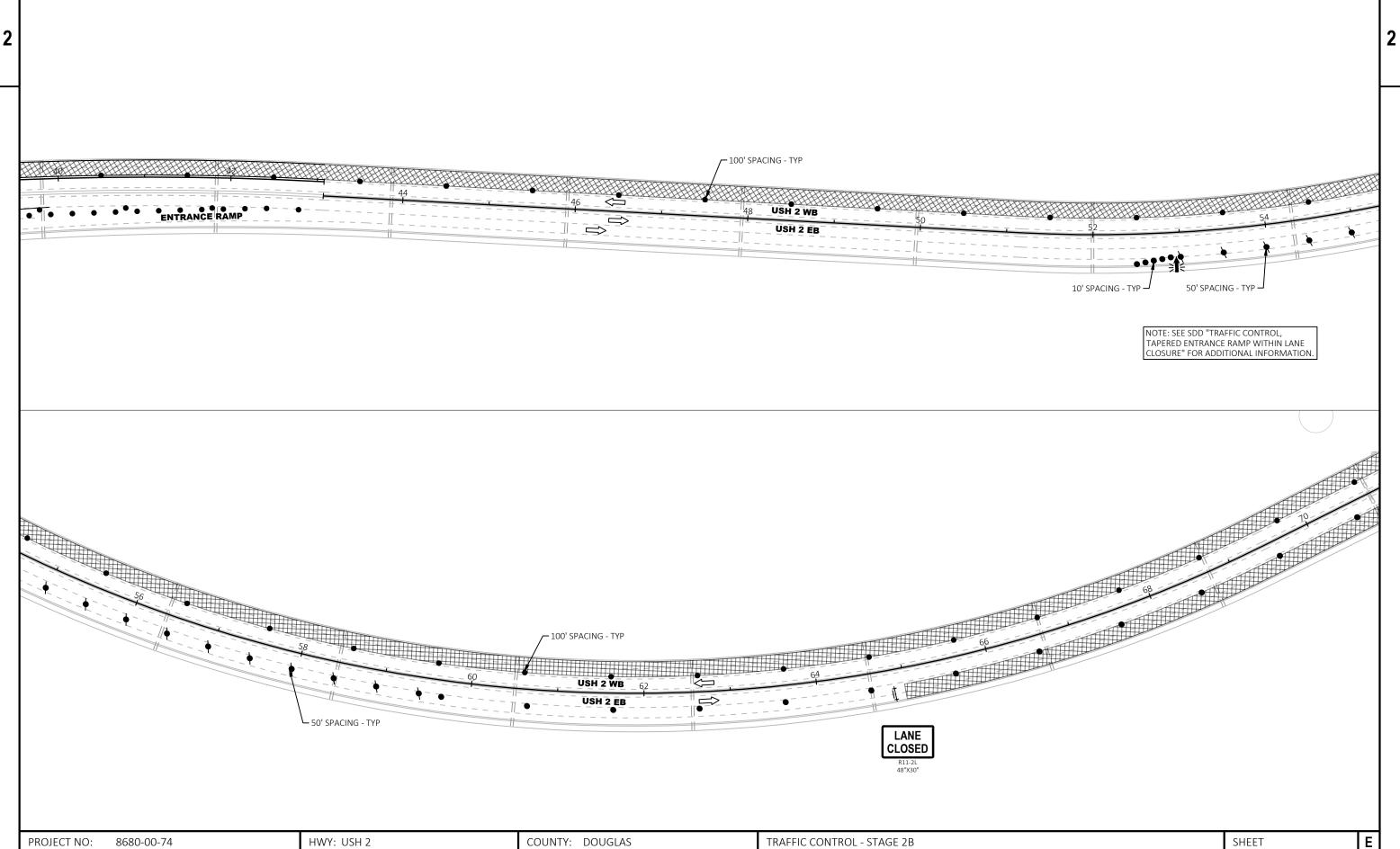




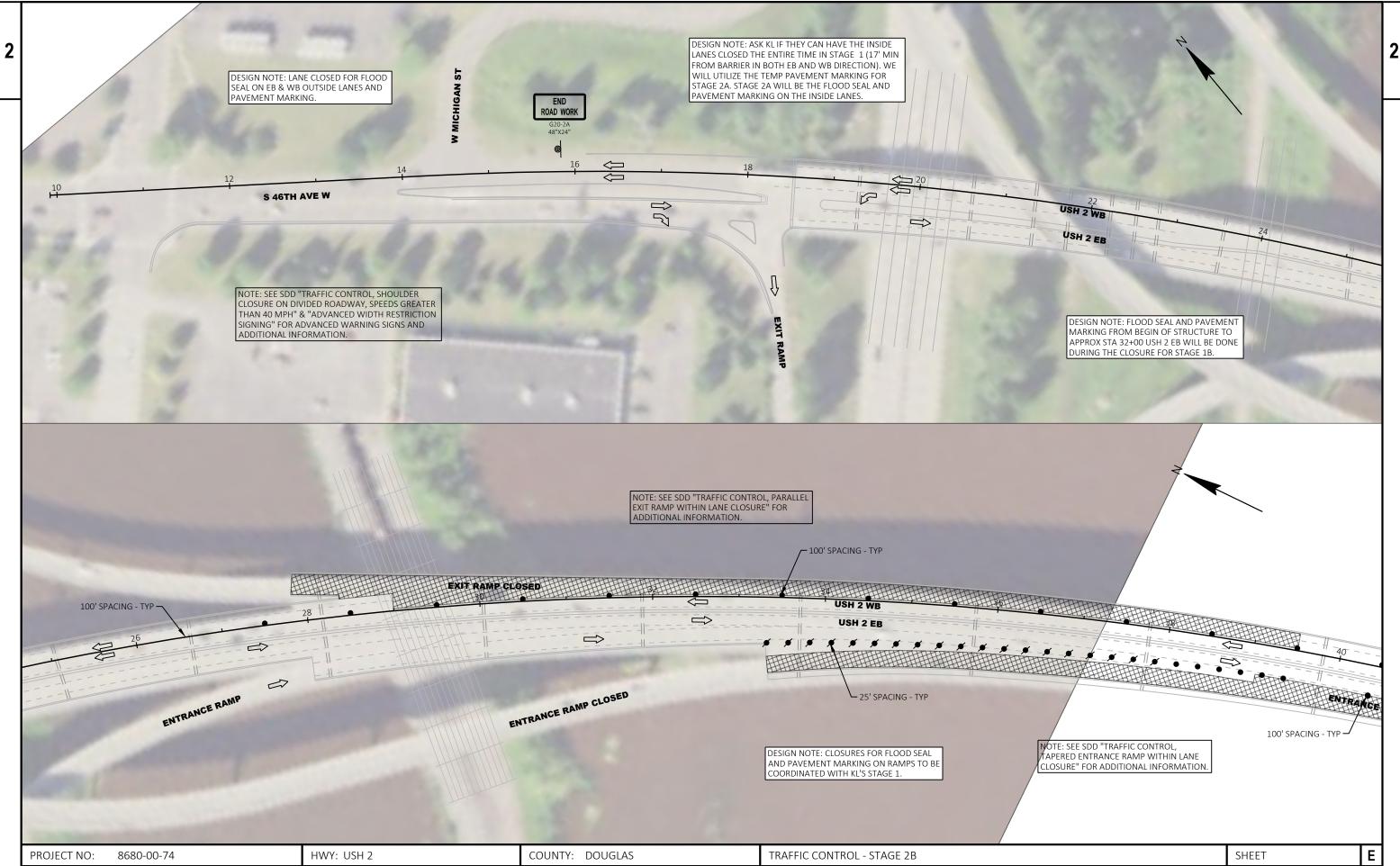
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PLOT BY : RESHESKE, CARRIE

PLOT NAME :



FILE NAME : I:\41\410903_USH 2 BONG BRIDGE PAINTING 86800004\C3D\SHEETS\025201-TC.DWG LAYOUT NAME - 025202-tc PLOT DATE : 11/1/2024 9:16 AM PLOT BY : RESHESKE, CARRIE PLOT NAME :

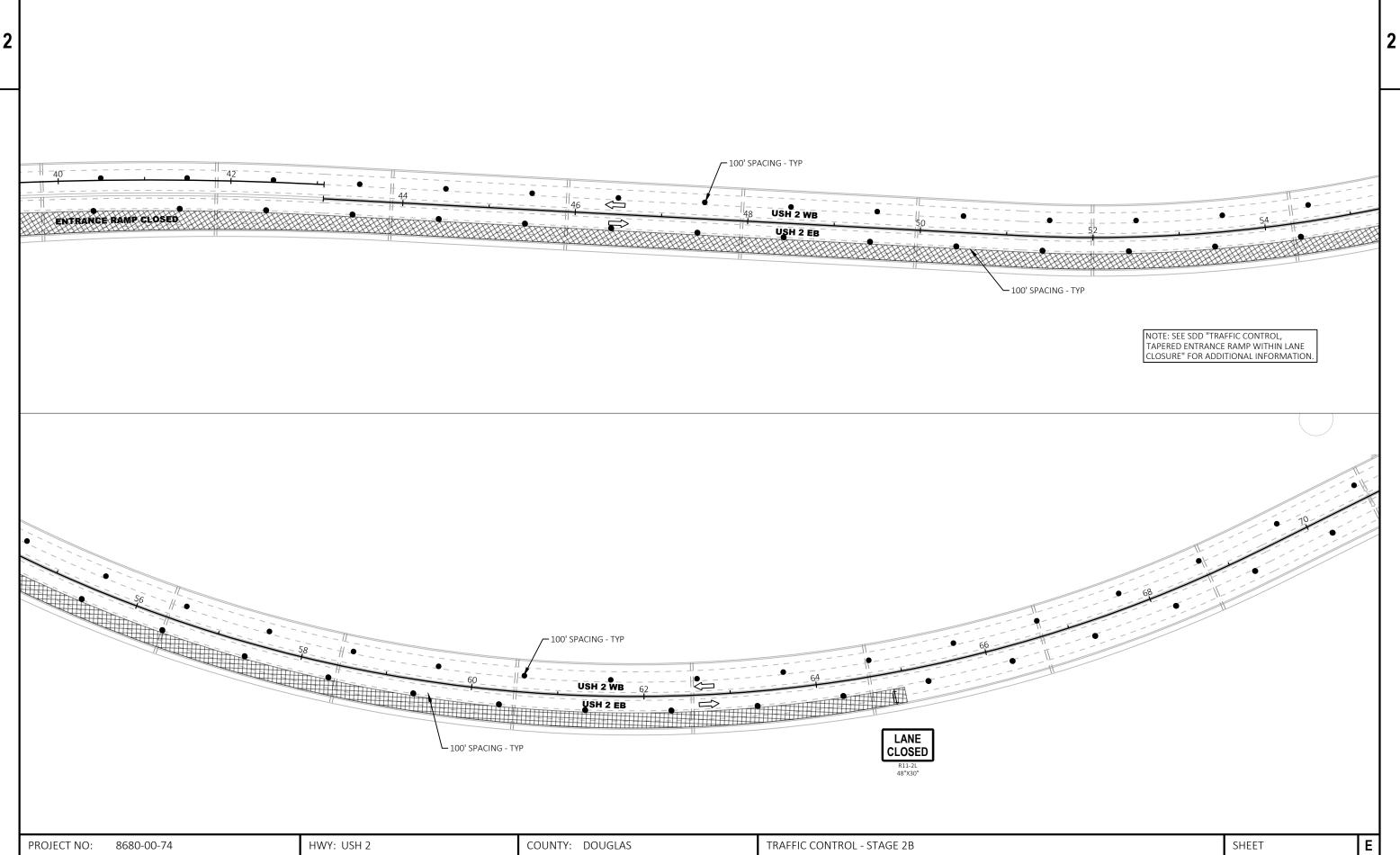


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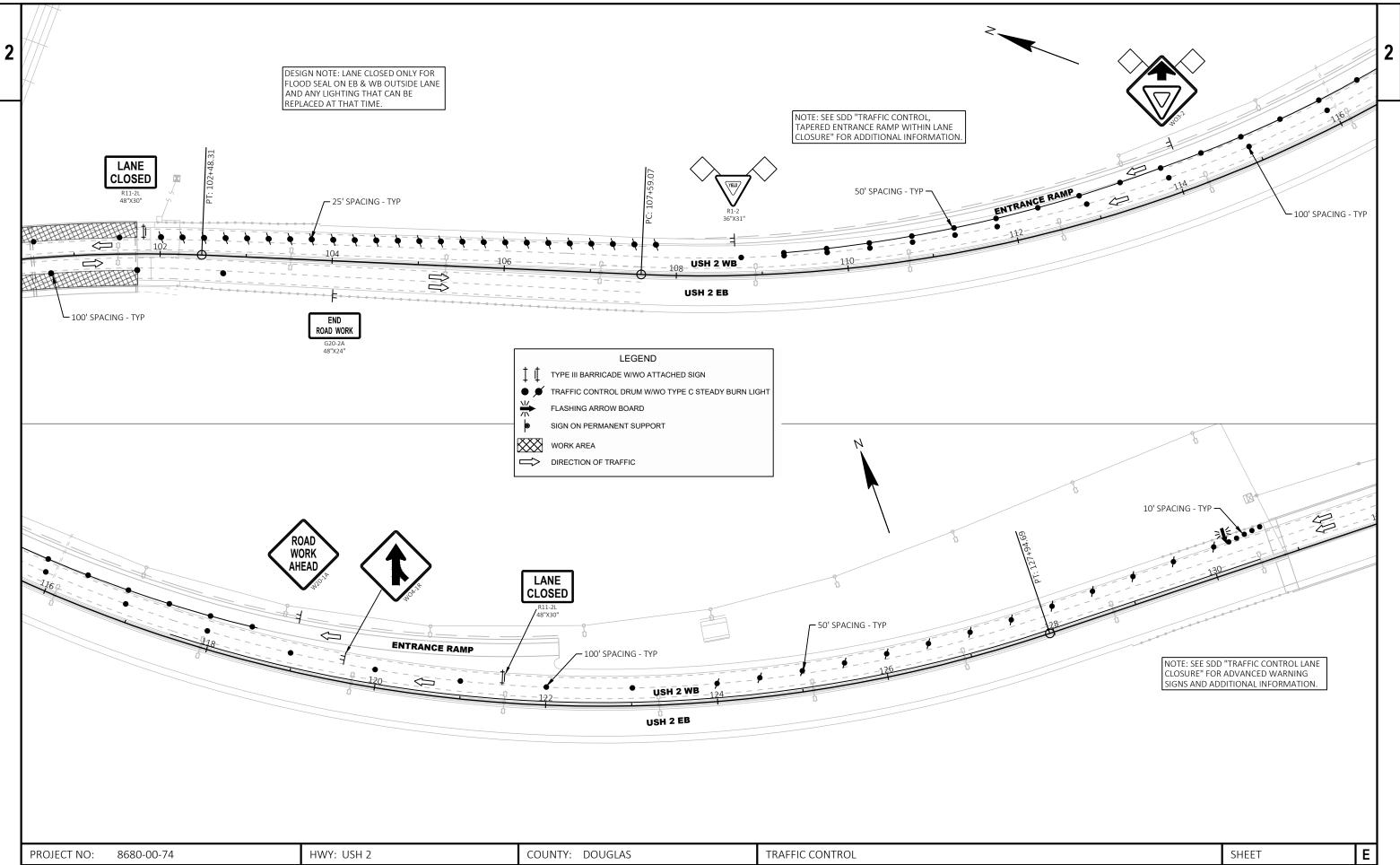
PLOT DATE : 11/1/2024 9:17 AM PLOT BY : RESHESKE, CARRIE

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

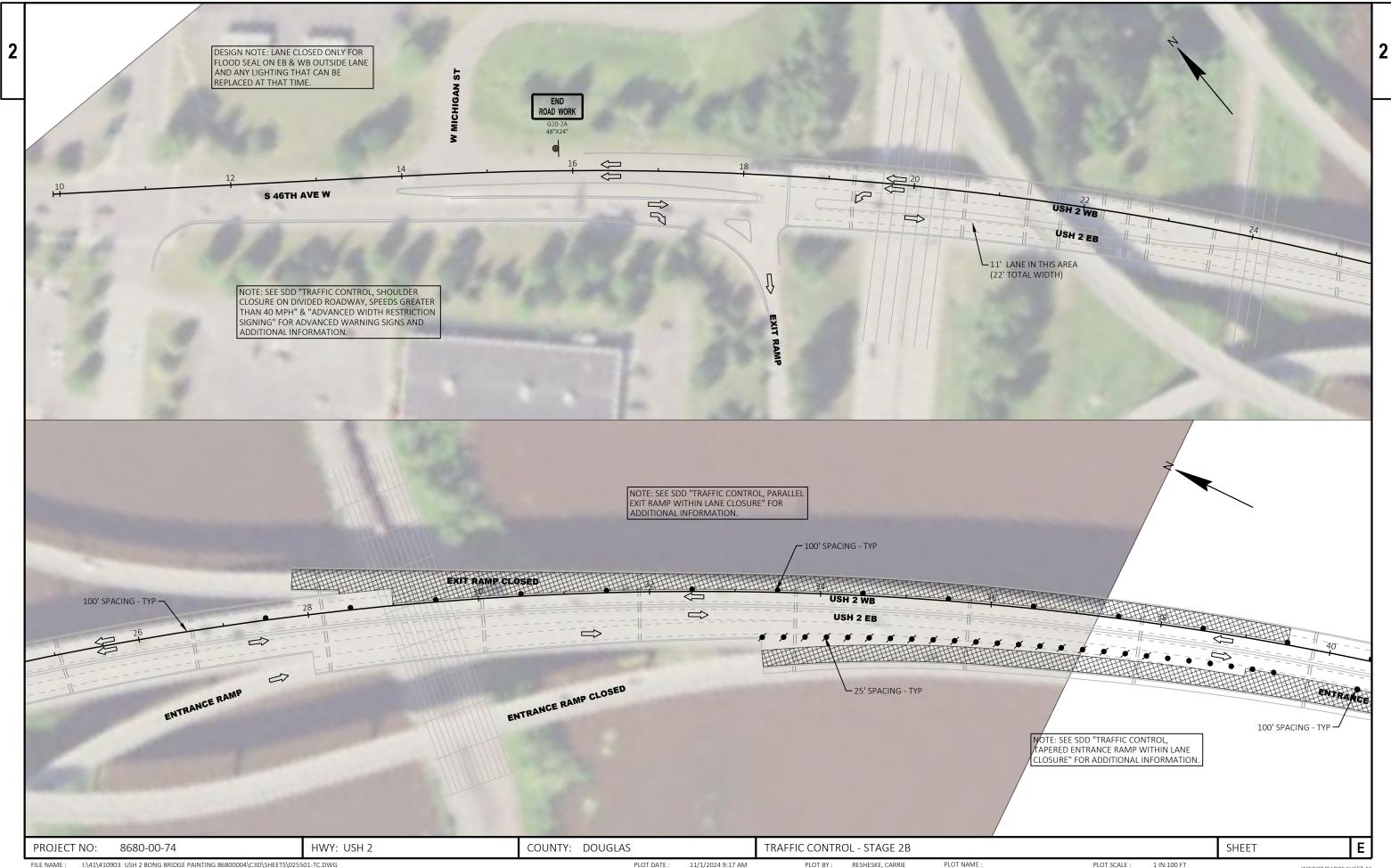


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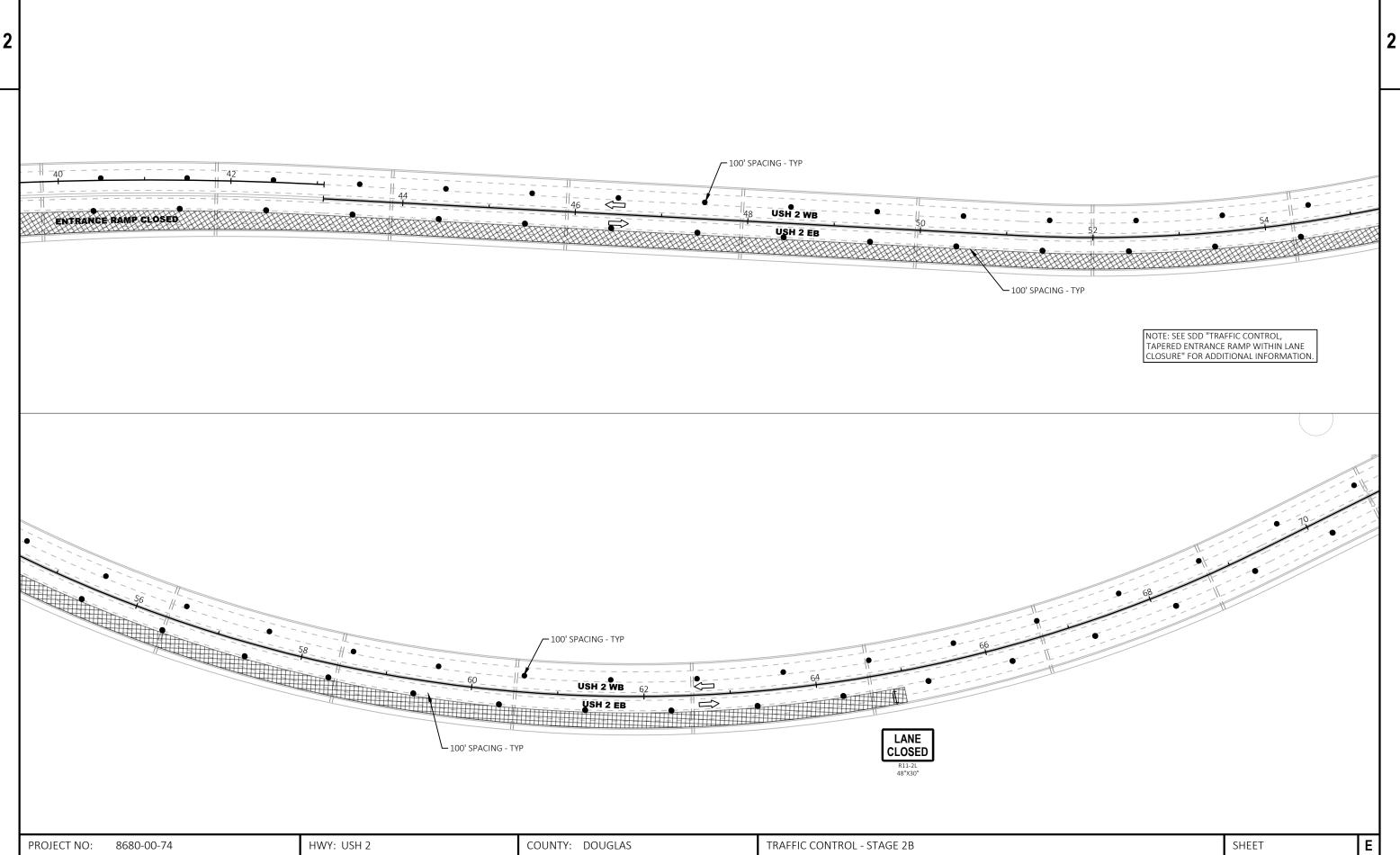


PLOT SCALE :

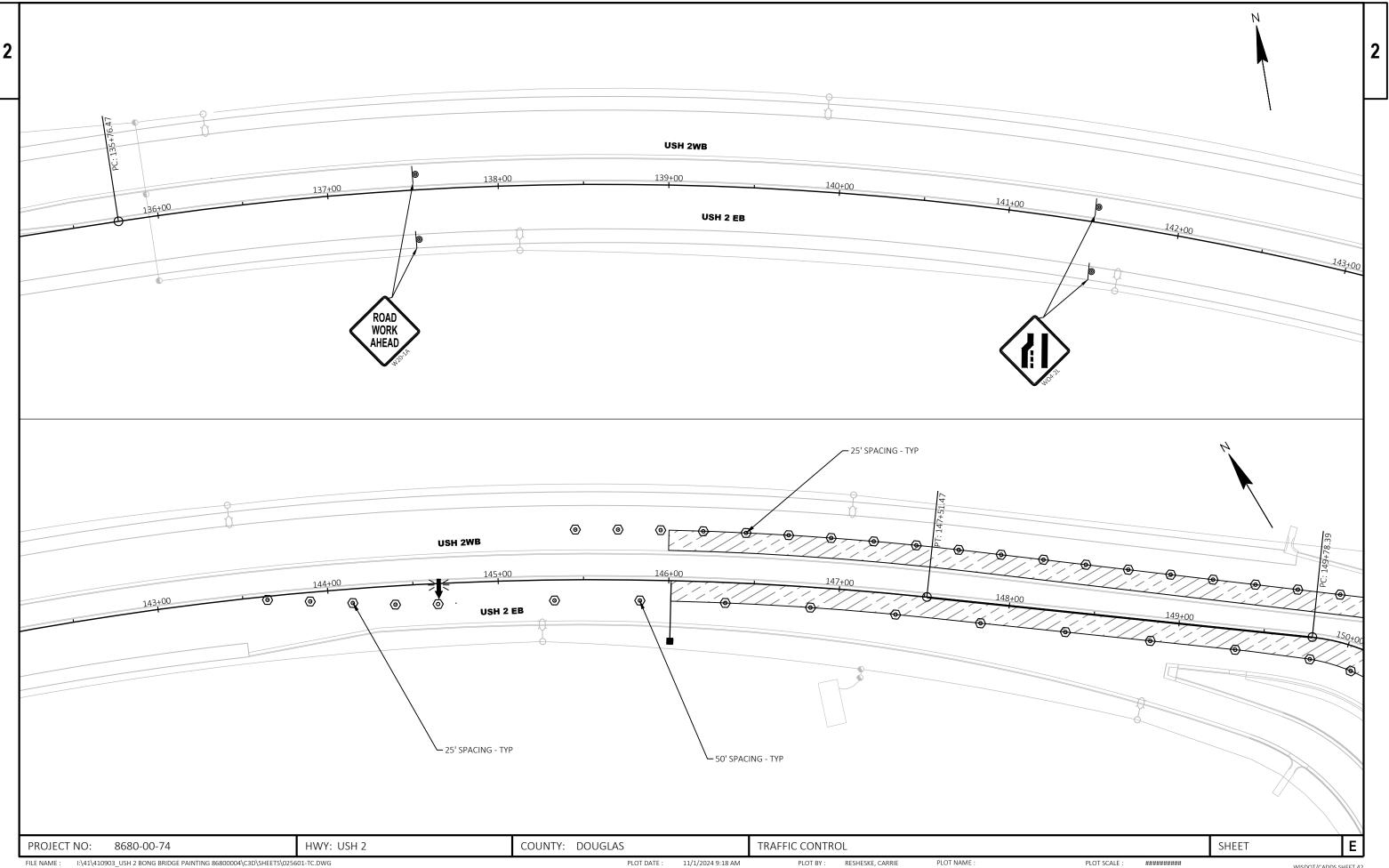
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PLOT BY : RESHESKE, CARRIE



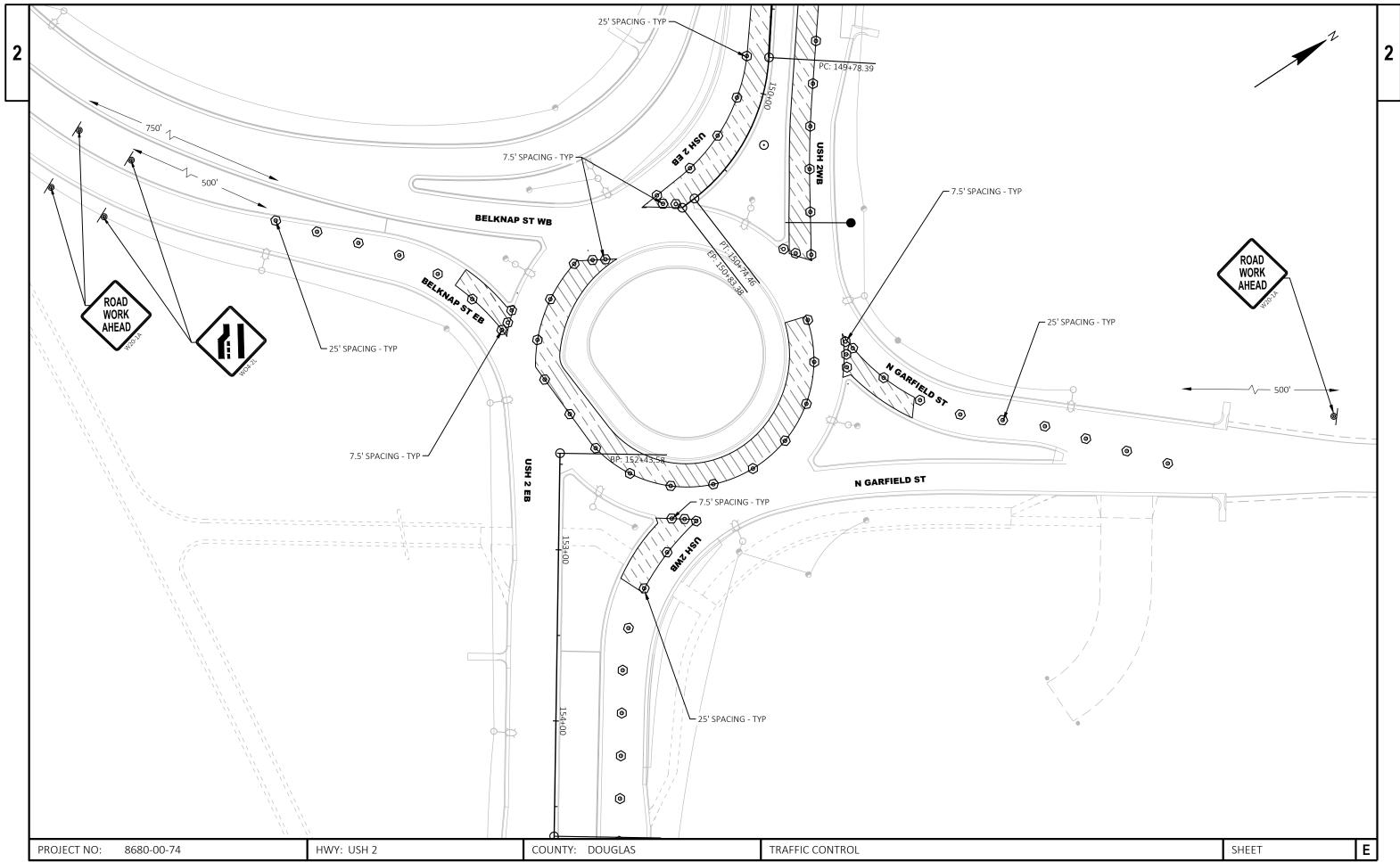
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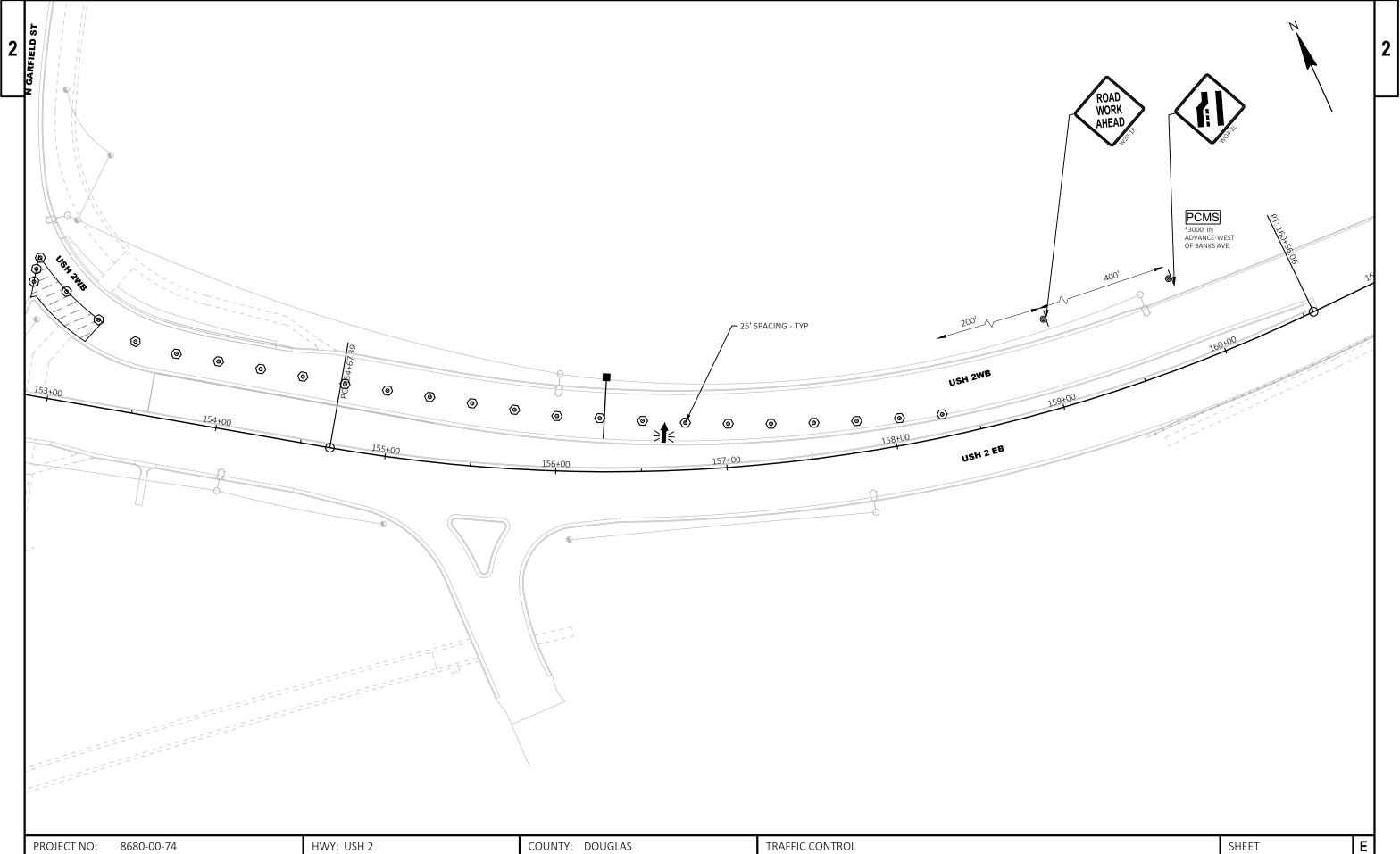
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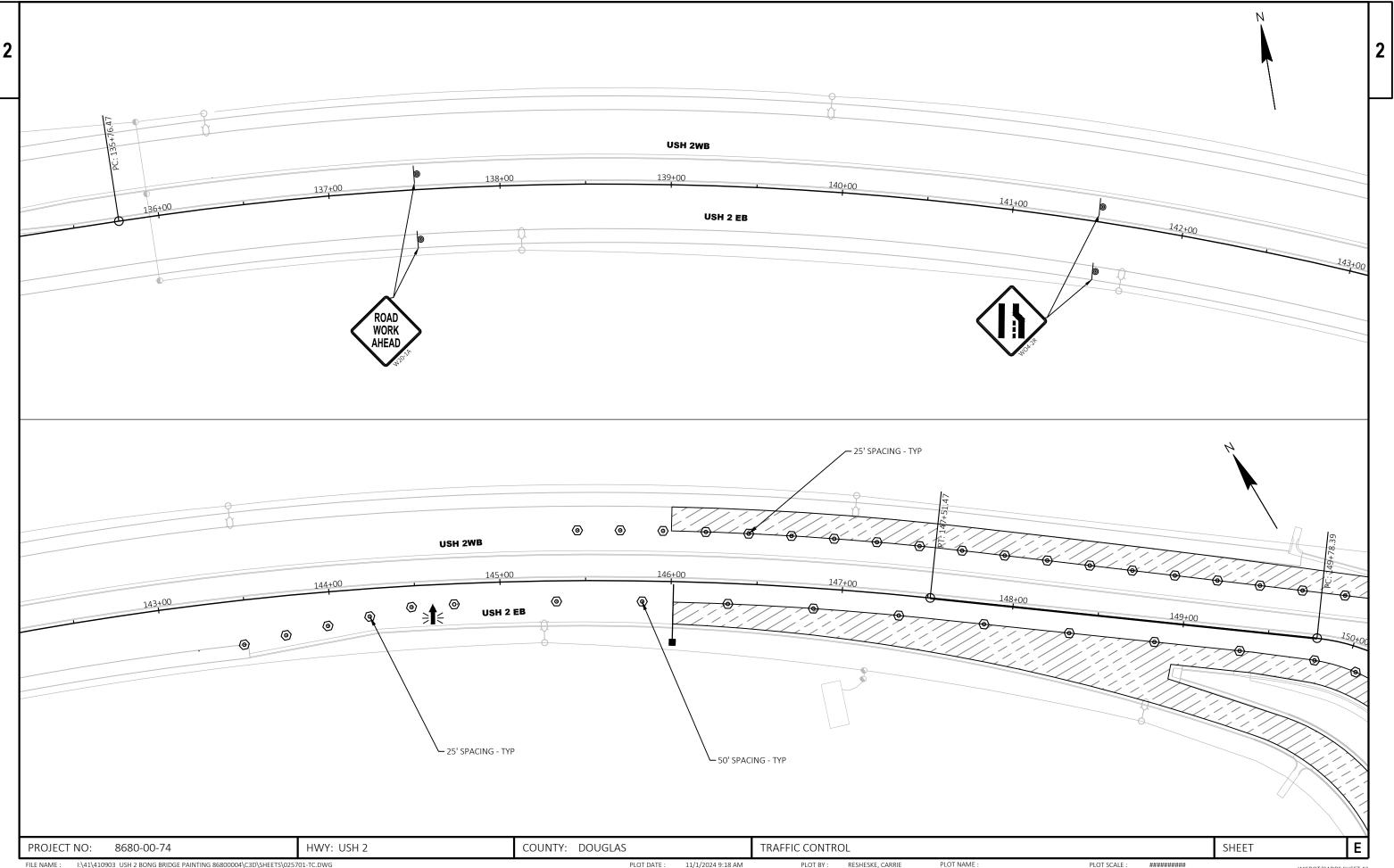
PLOT BY : RESHESKE, CARRIE



PLOT DATE : 11/1/2024 9:18 AM PLOT BY : RESHESKE, CARRIE

PLOT NAME :

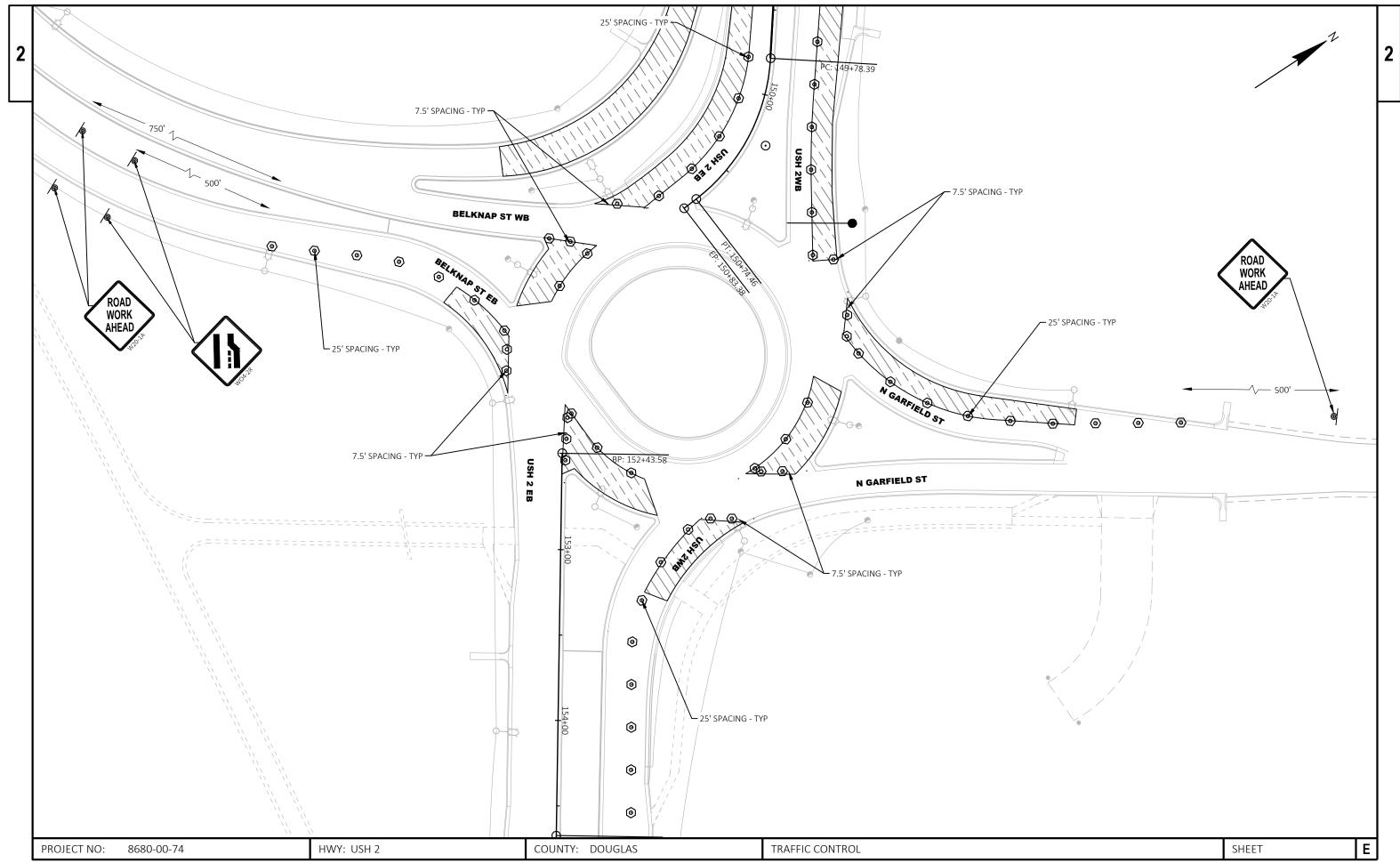


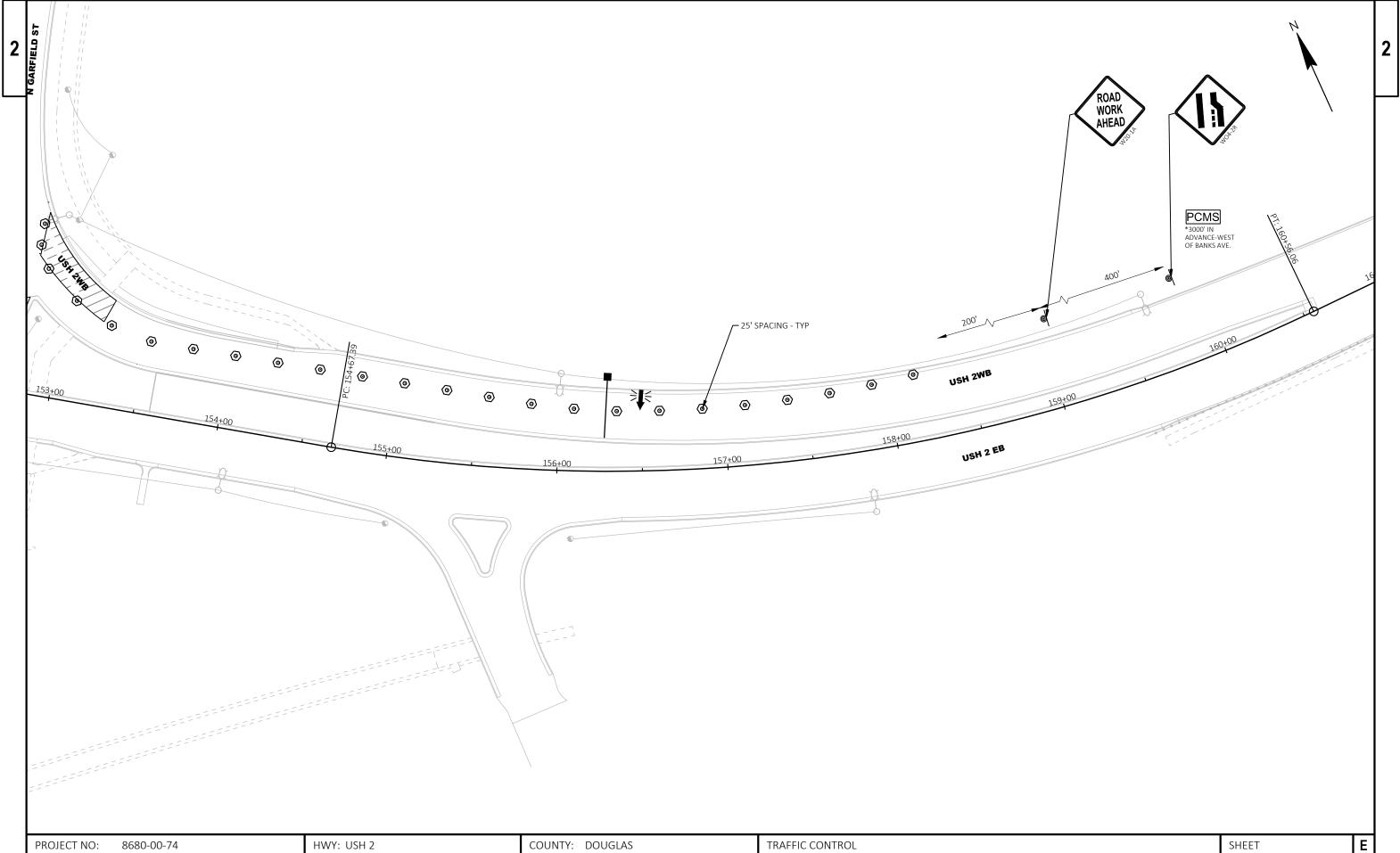


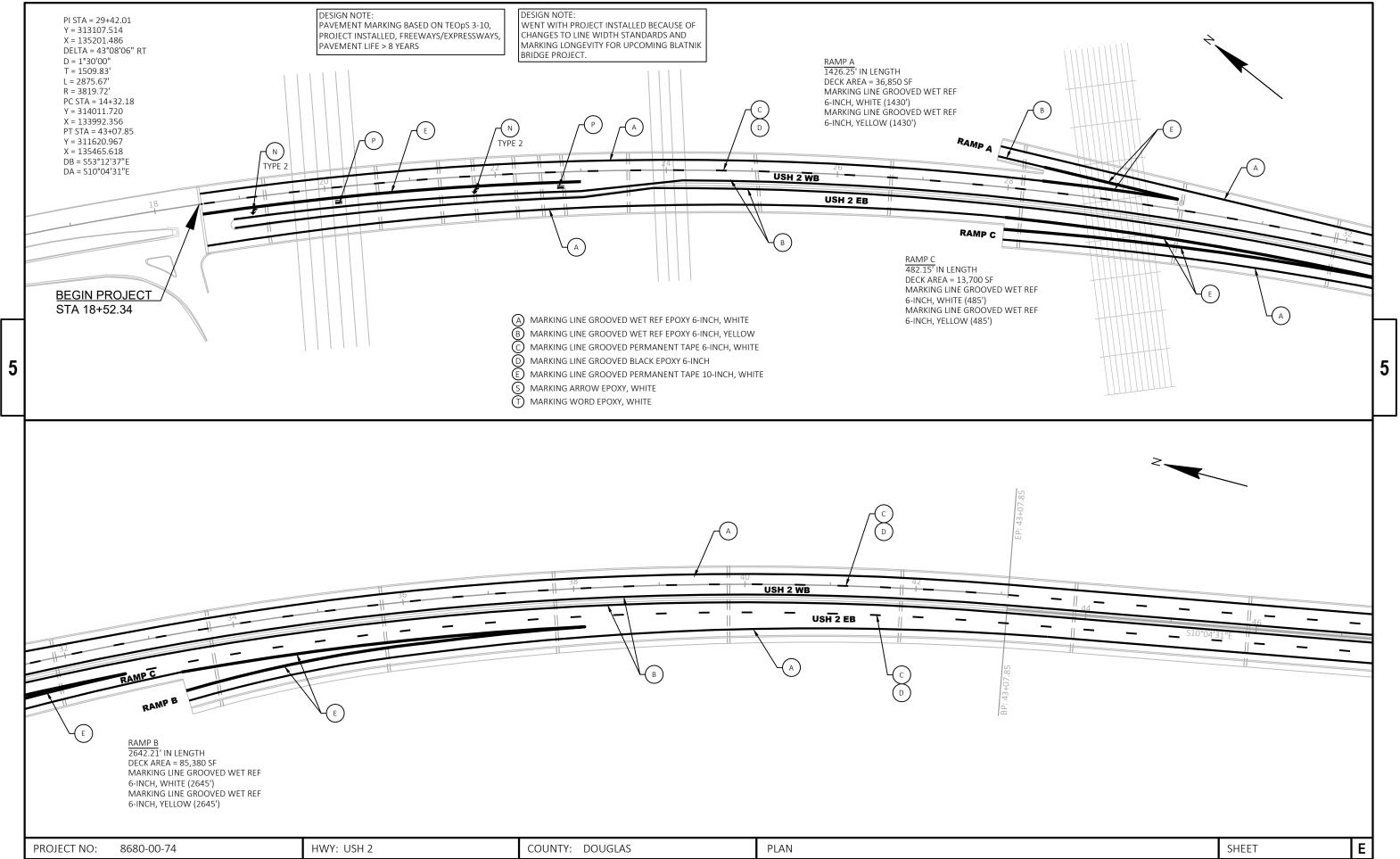
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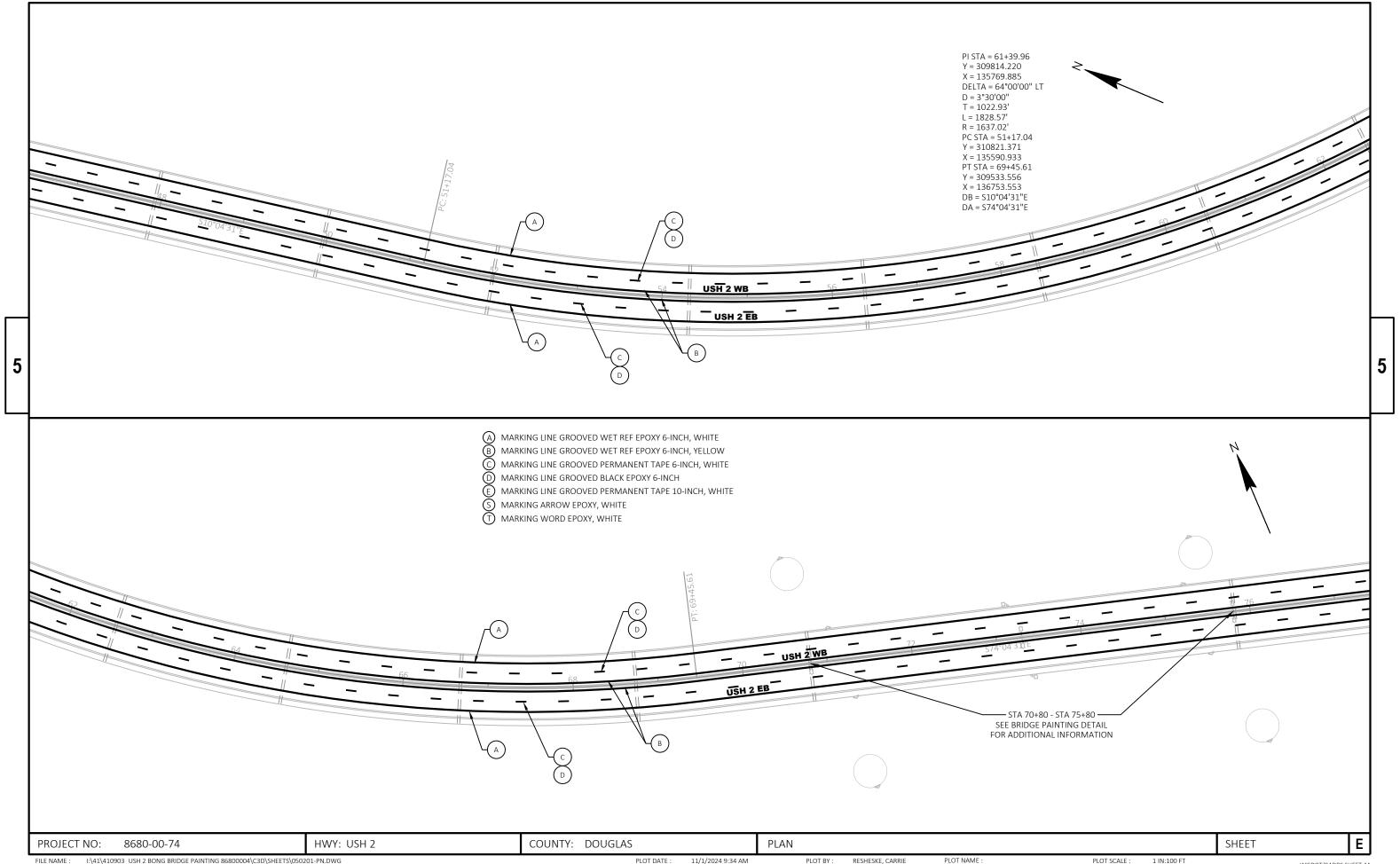
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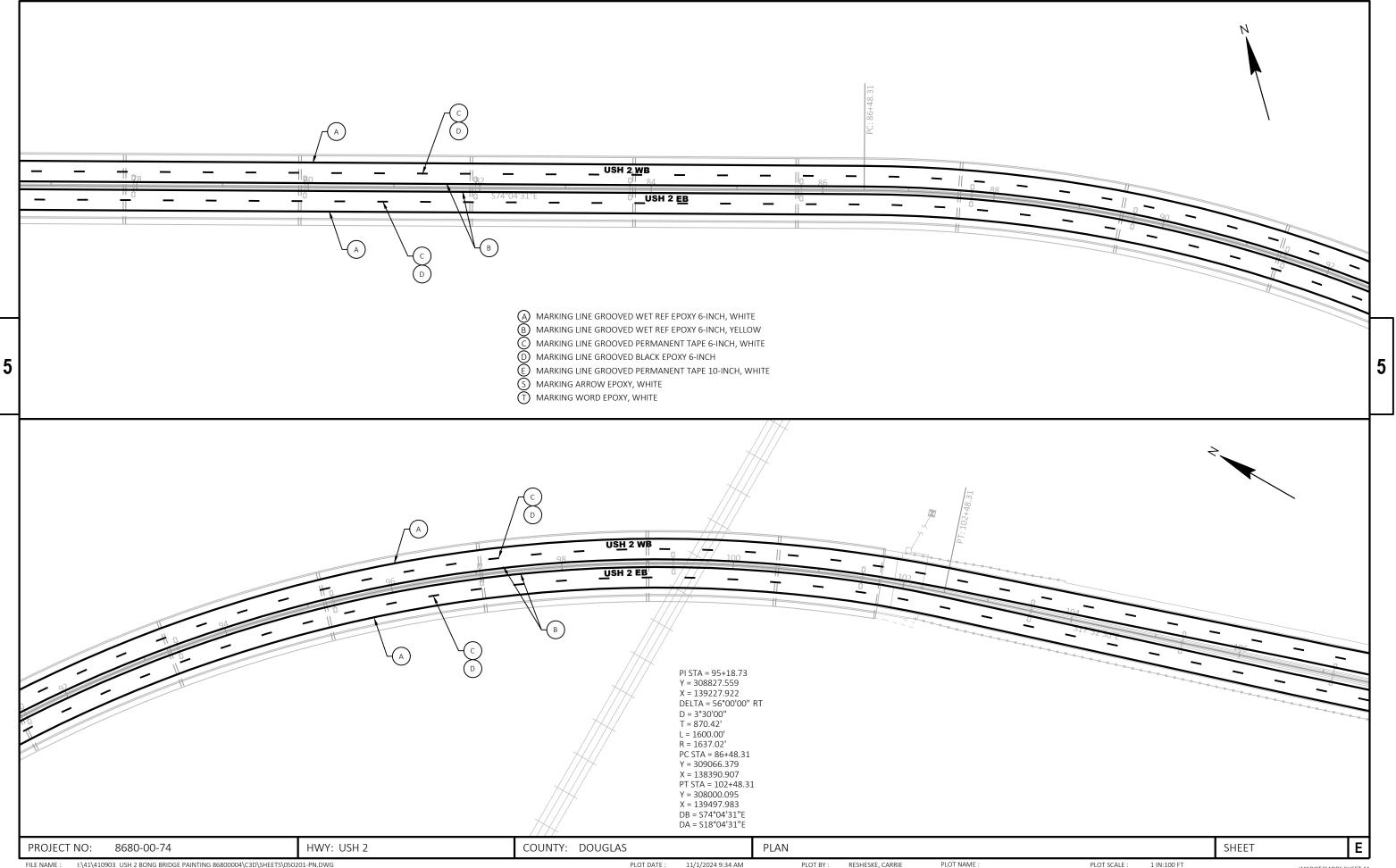






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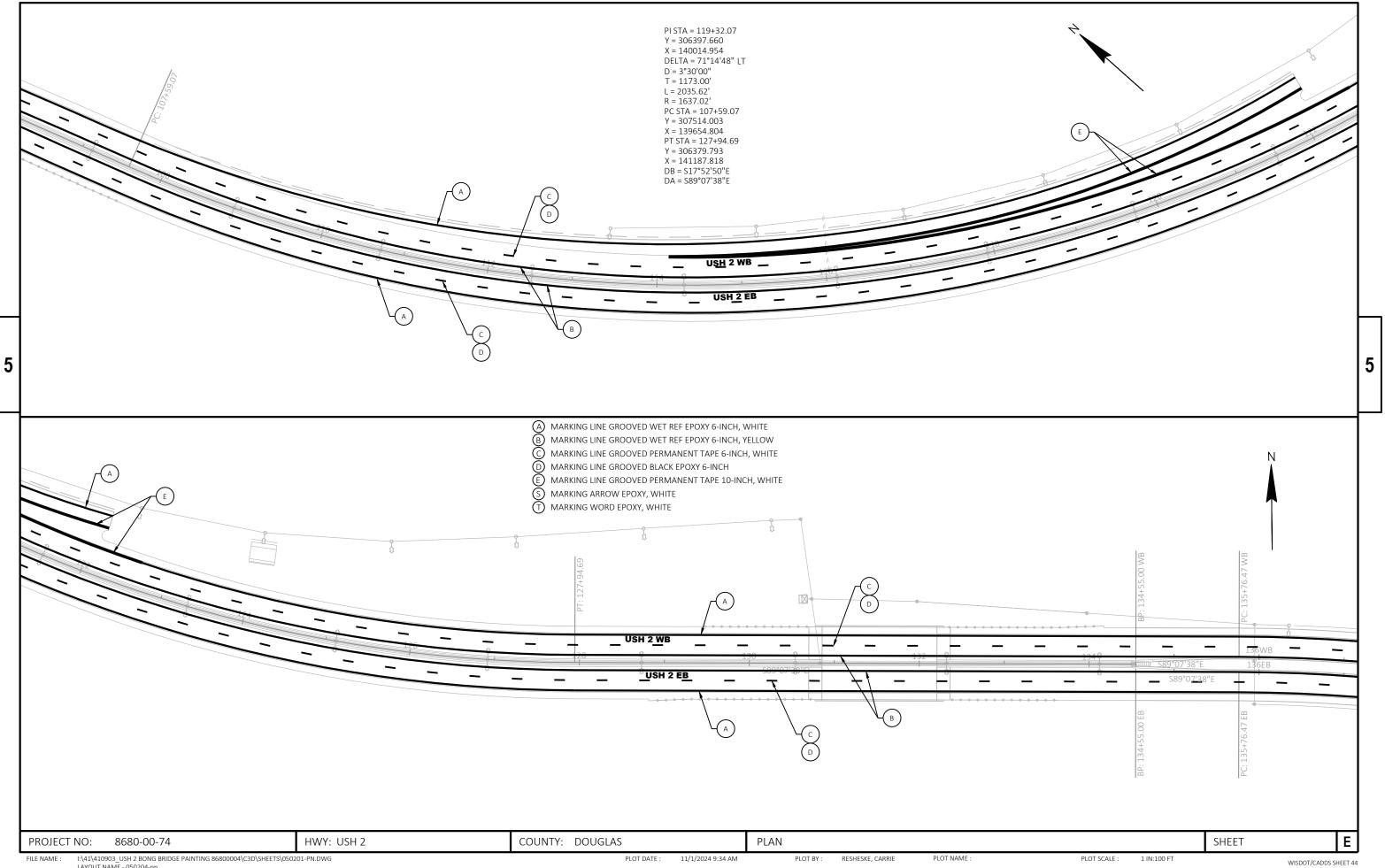


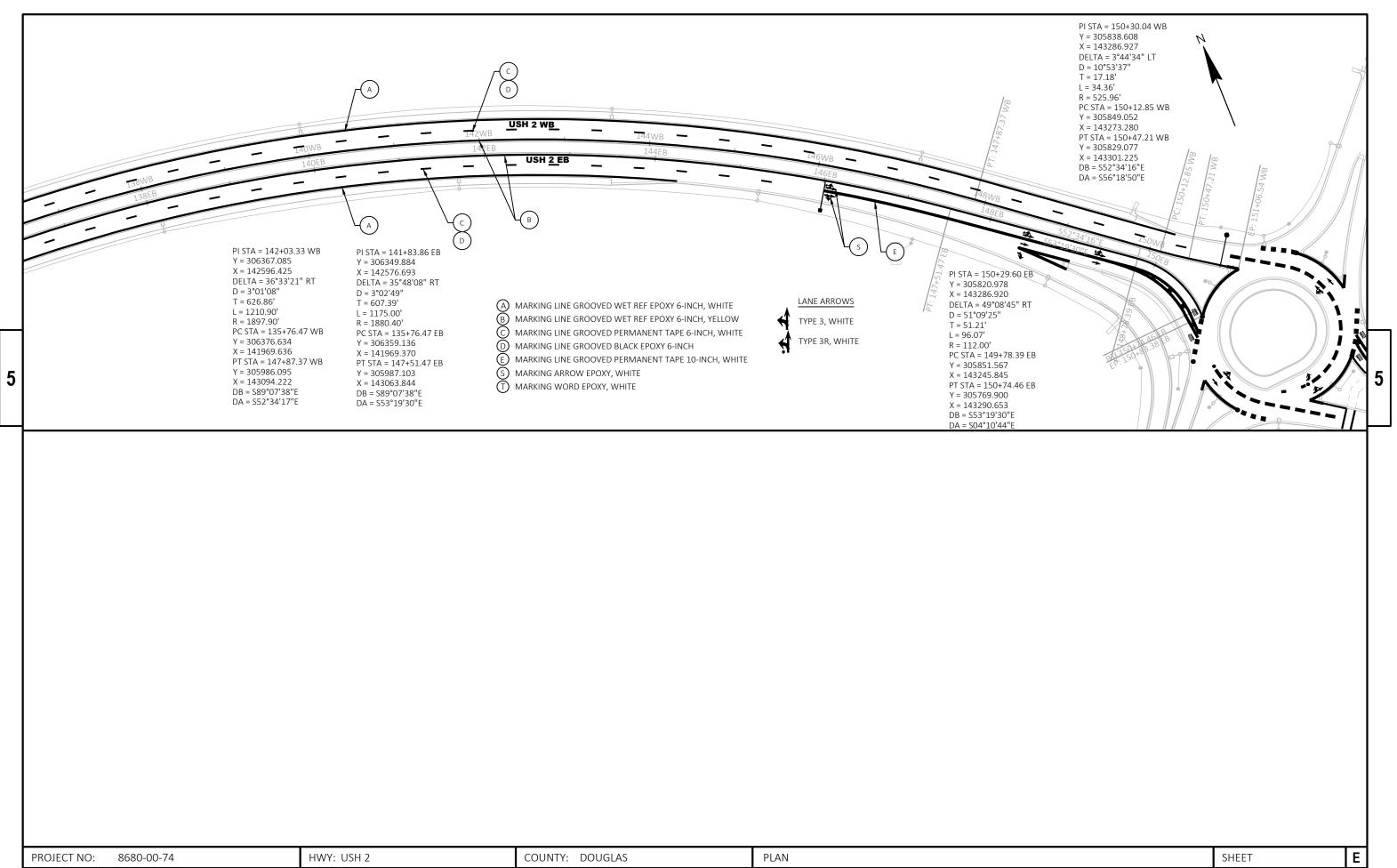


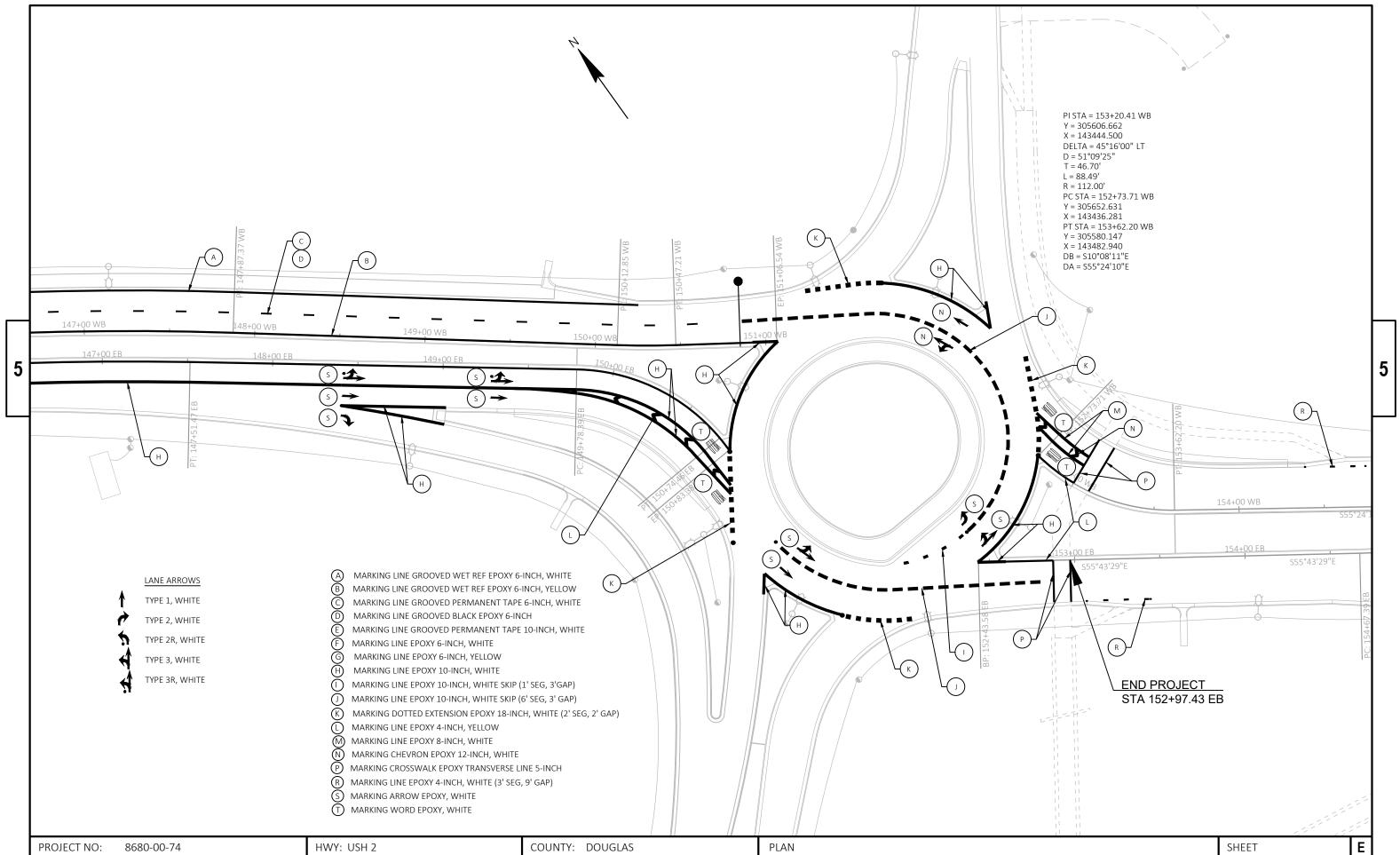
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PLOT DATE : 11/1/2024 9:34 AM

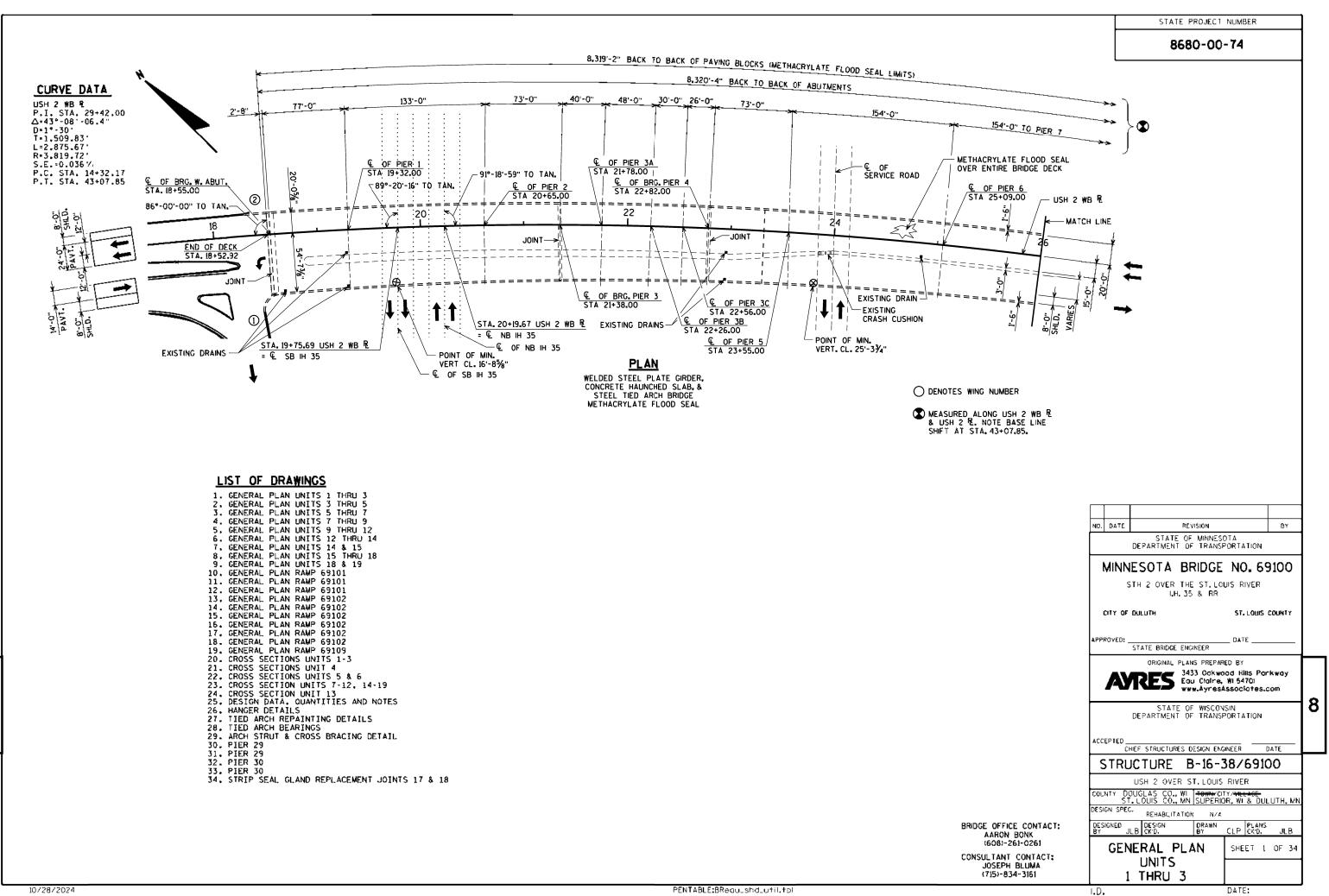
PLOT BY : RESHESKE, CARRIE PLOT NAME :







PLOT NAME :



\$PRFNAME 1:±41±4:0903

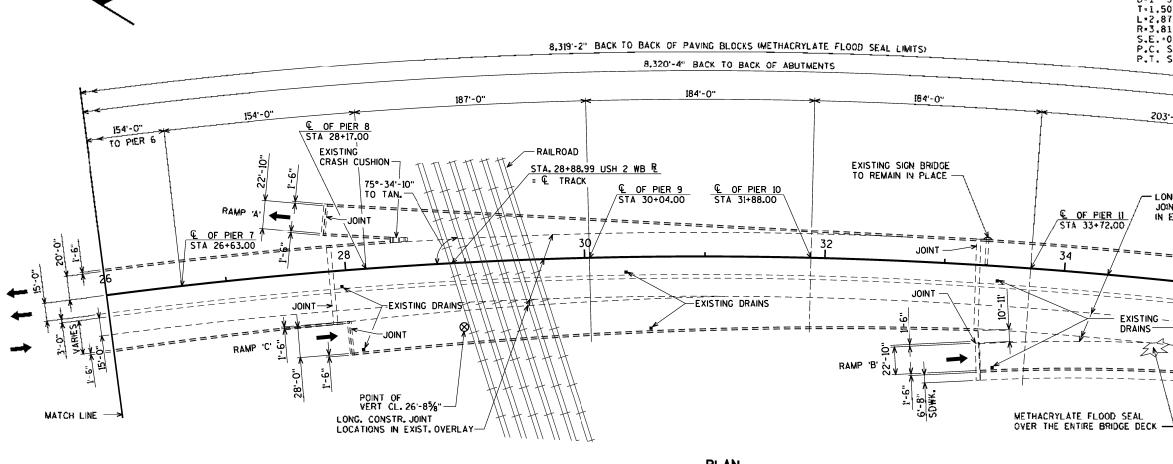
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CHECKED BY: BACK CHECKED B CORRECTED BY:

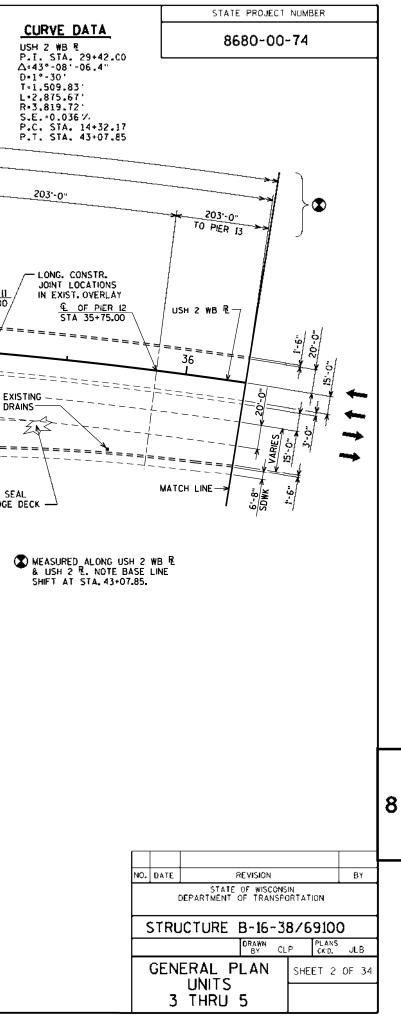
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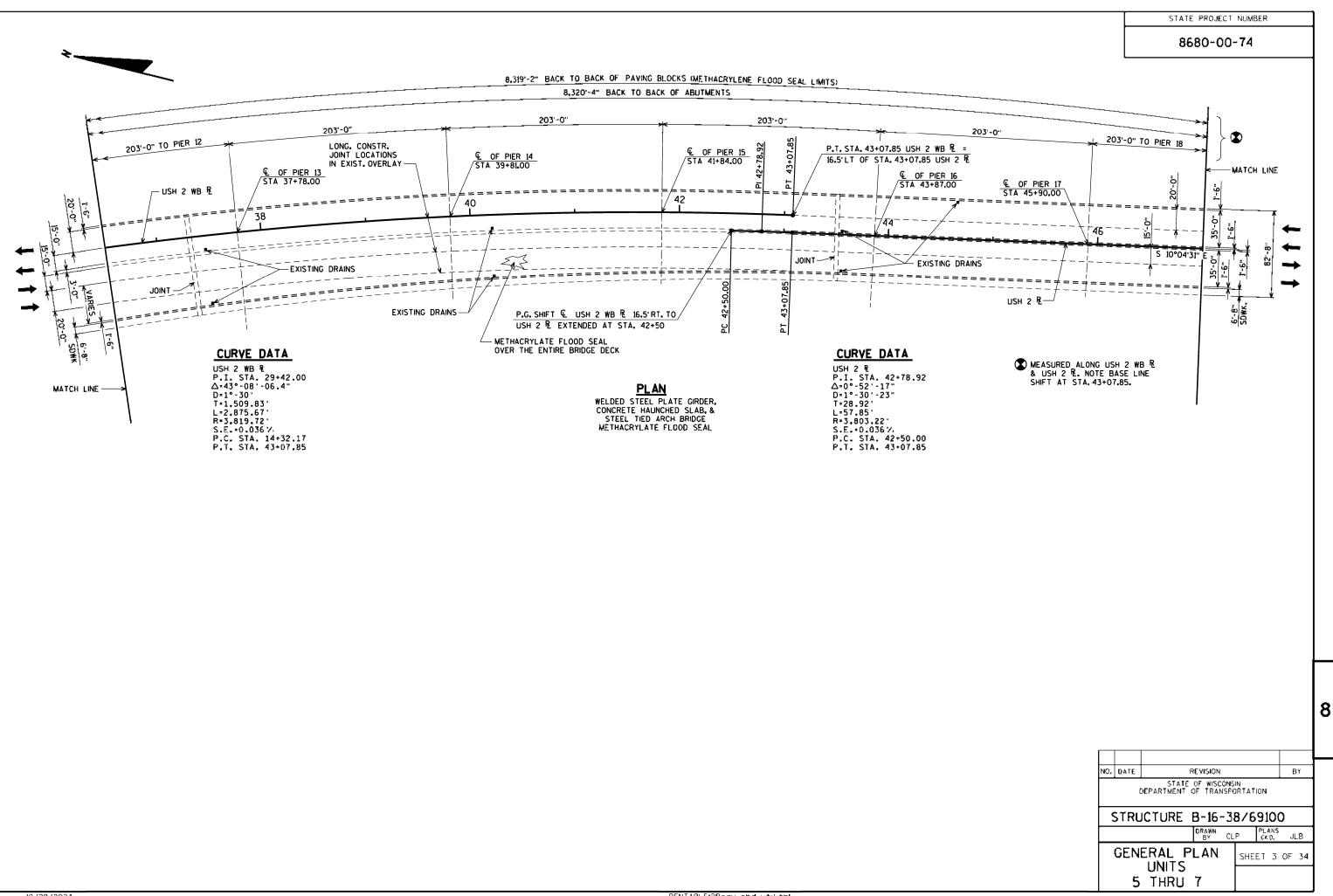




PLAN WELDED STEEL PLATE GIRDER, CONCRETE HAUNCHED SLAB, & STEEL TIED ARCH BRIDGE METHACRYLATE FLOOD SEAL

\$PRFNAME\$ 1:±41±410903_USH 2 Bong Bridge Painting 86800004±5tructures±Preliminary±24 42-08;

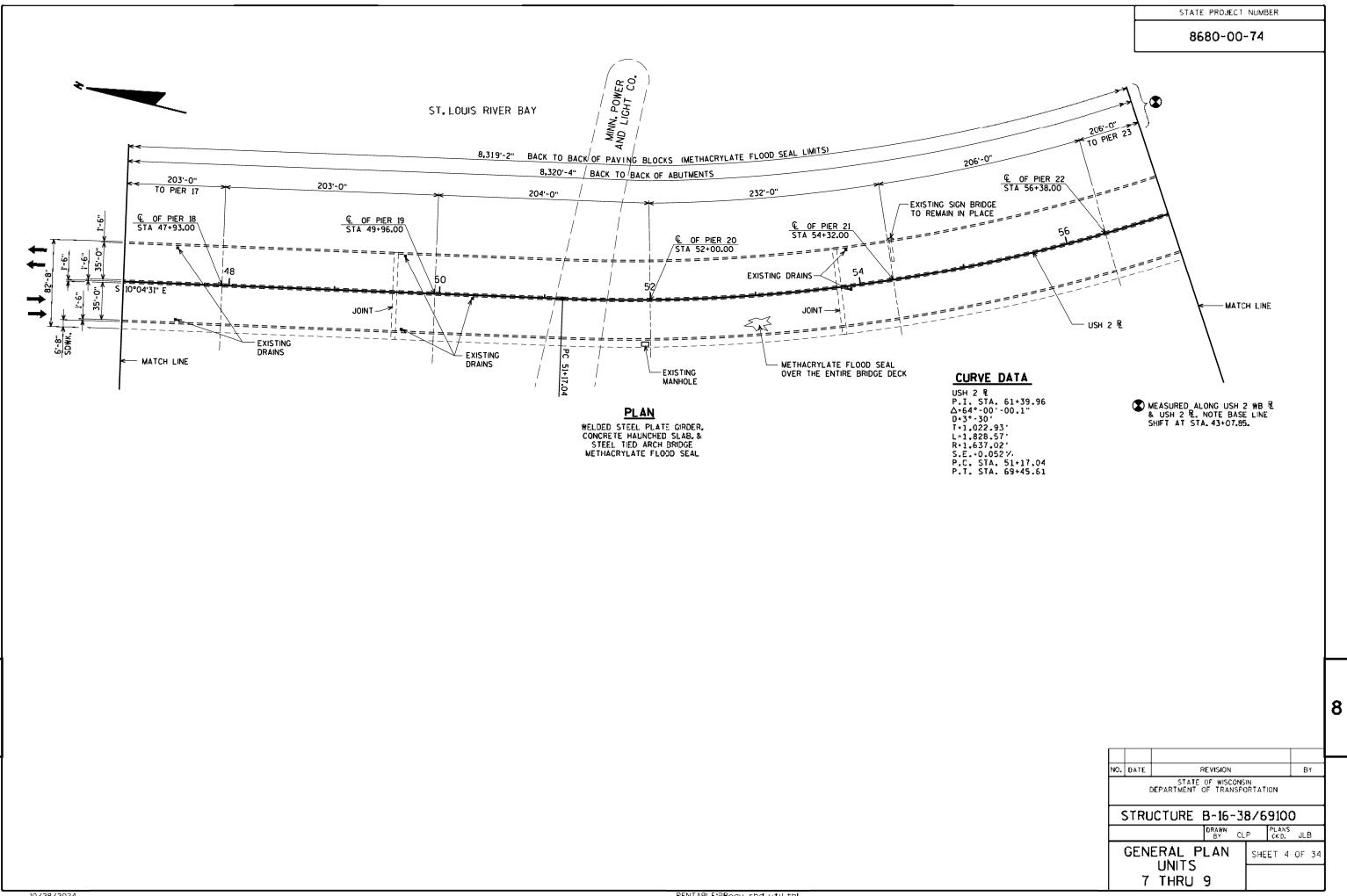




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10/28/2024

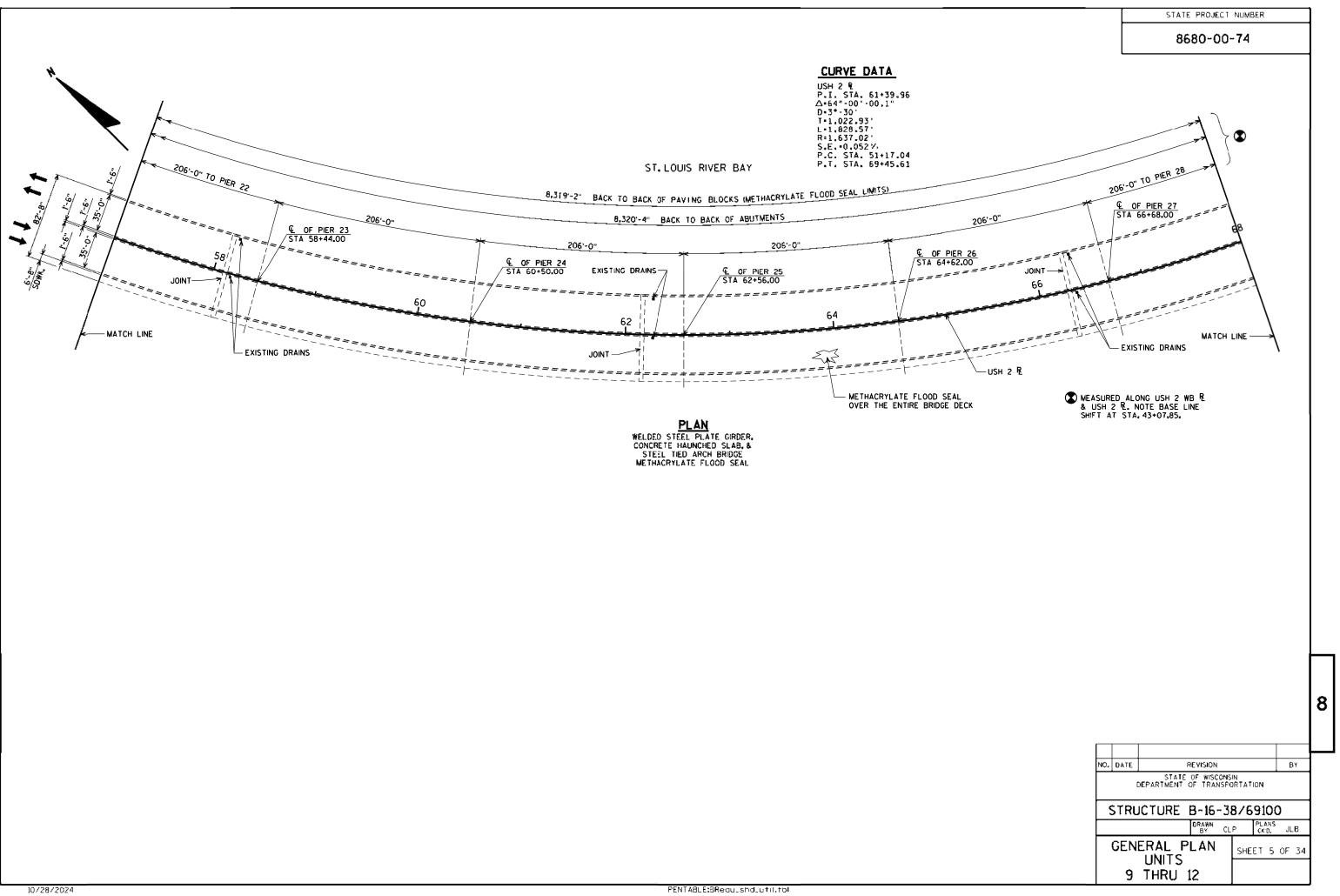




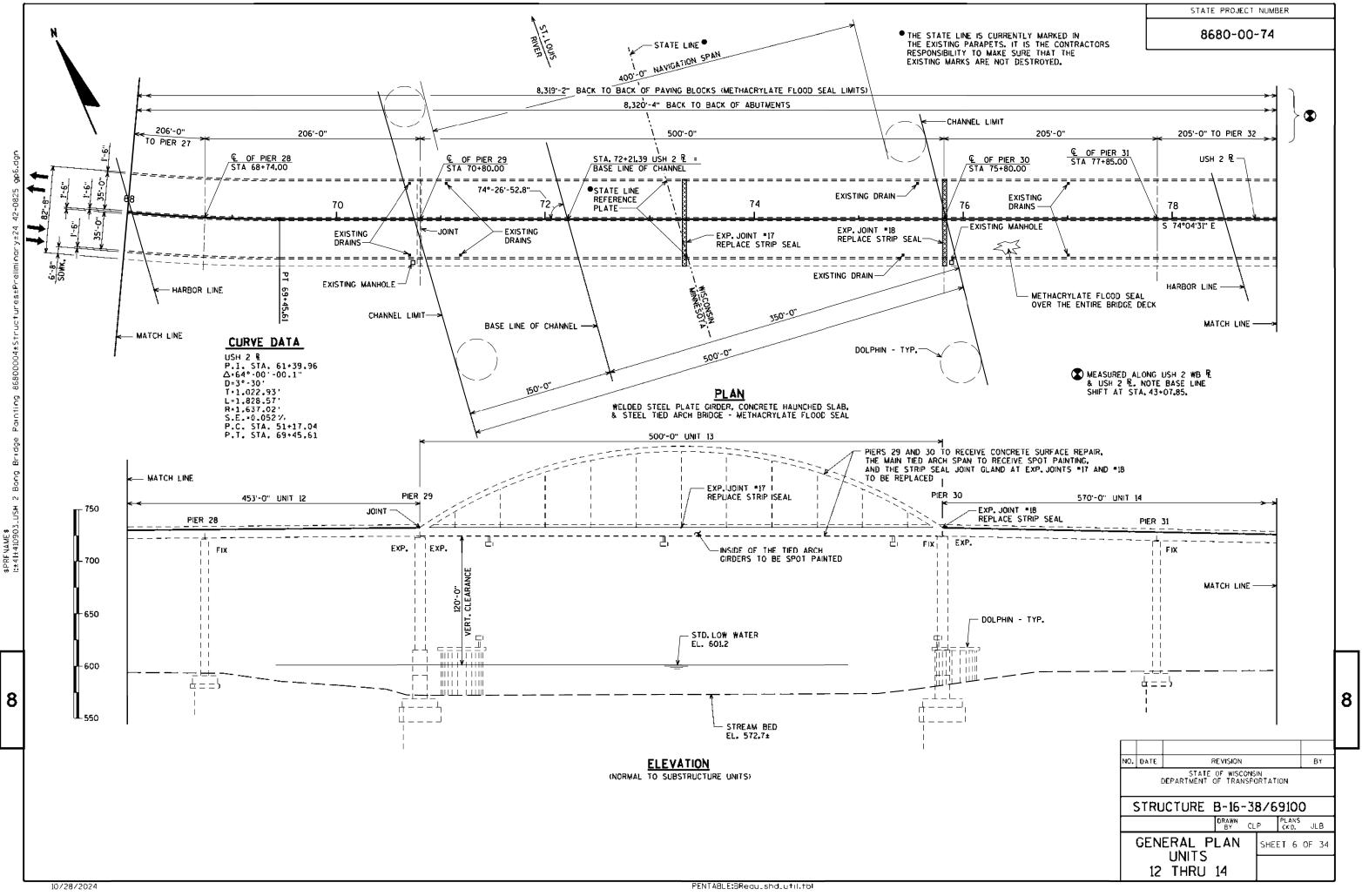
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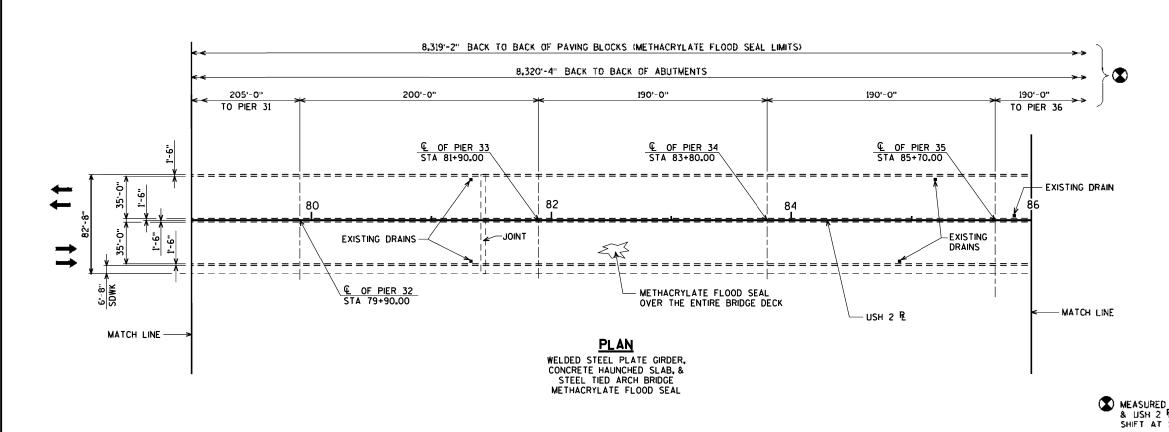
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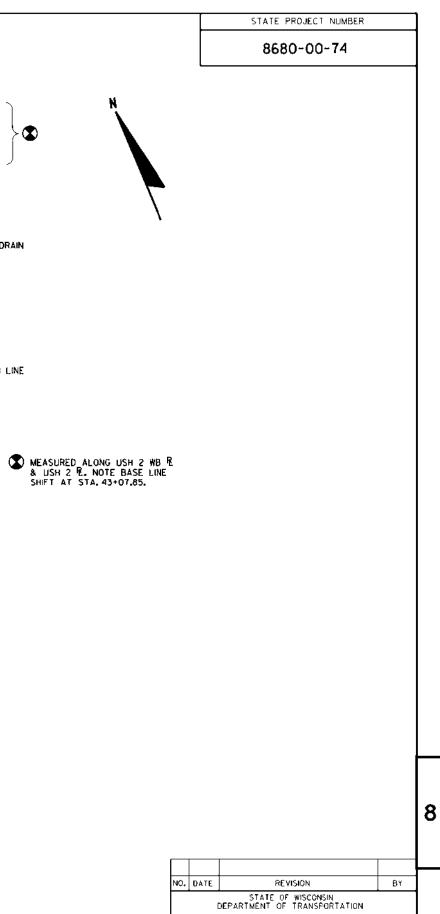




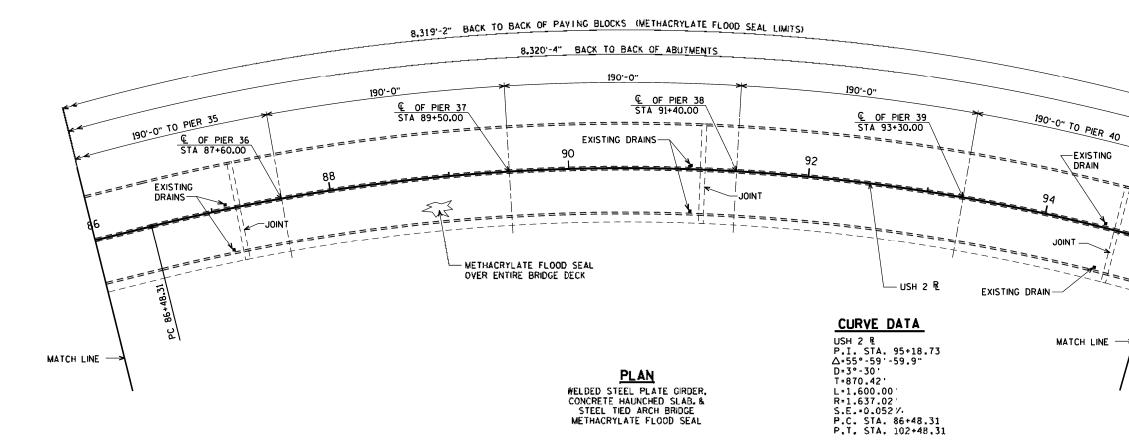


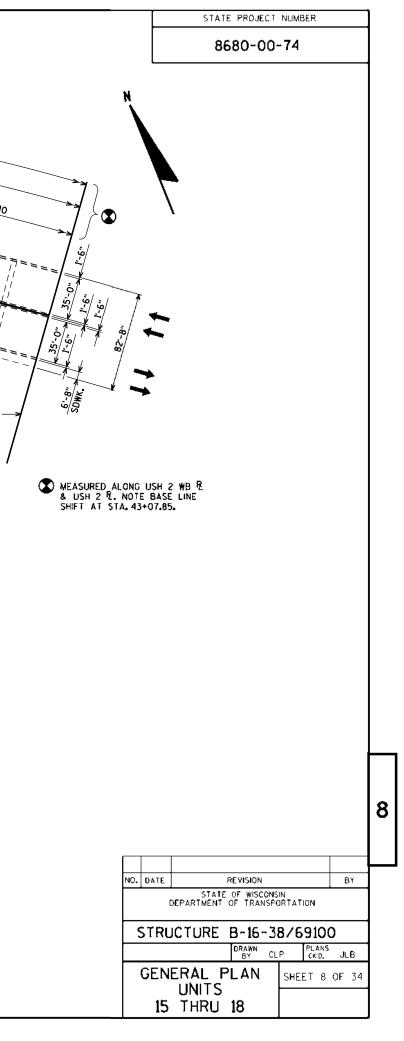


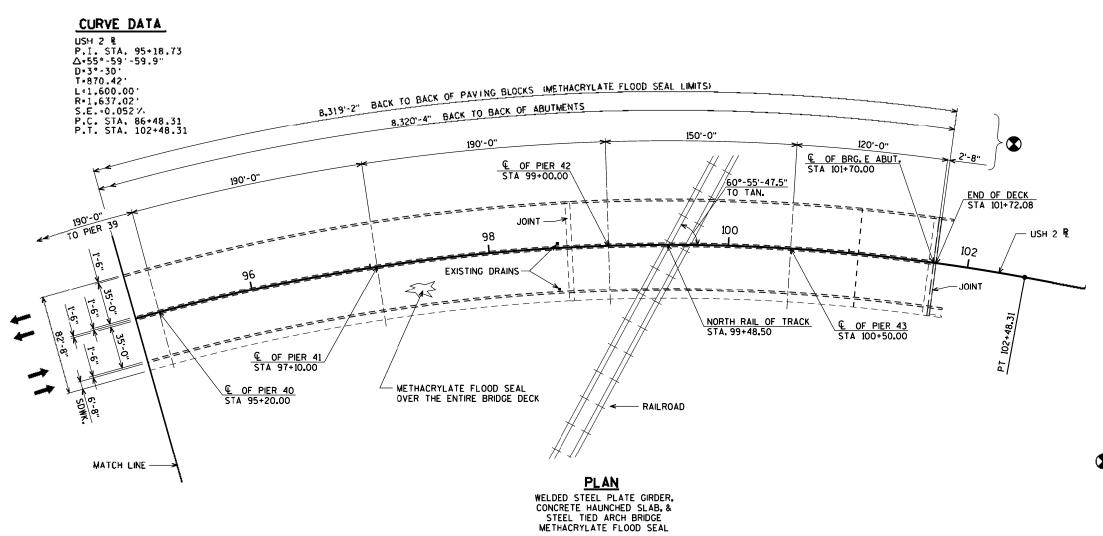


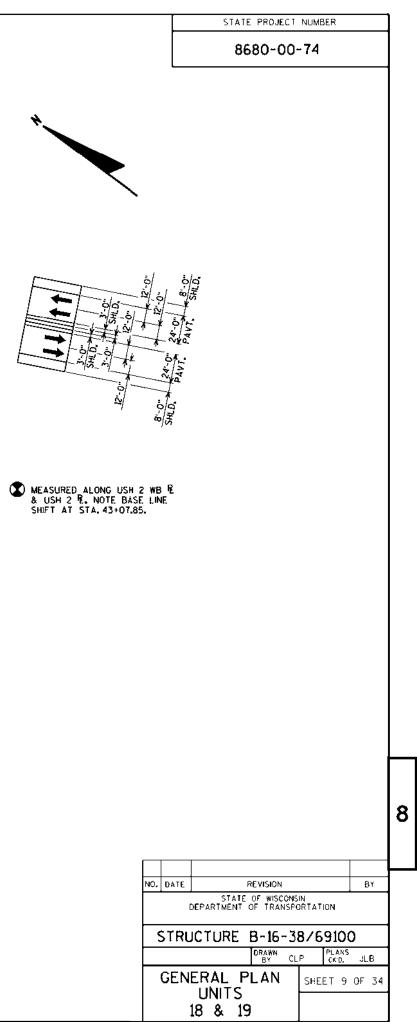


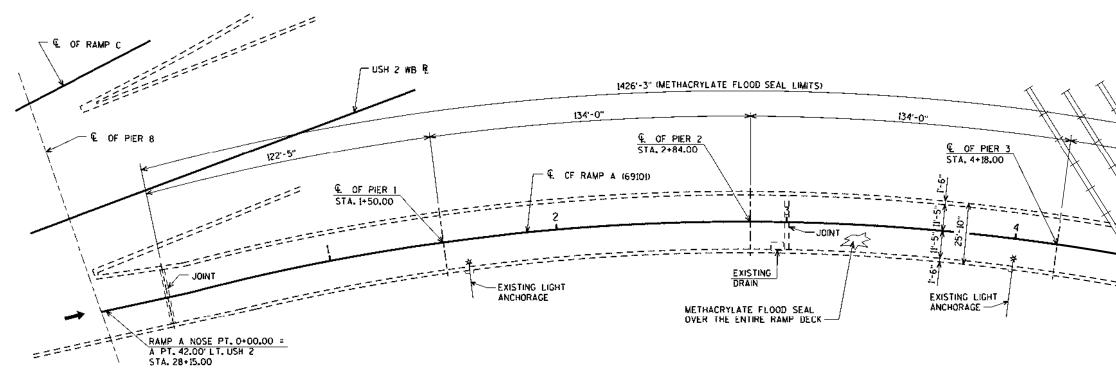
DEPARTMENT OF TRANSFO	DRTATION					
STRUCTURE B-16-38/69100						
ORAWN By Cl	P CKD. JLB					
GENERAL PLAN	SHEET 7 OF 34					
UNITS 14 & 15						



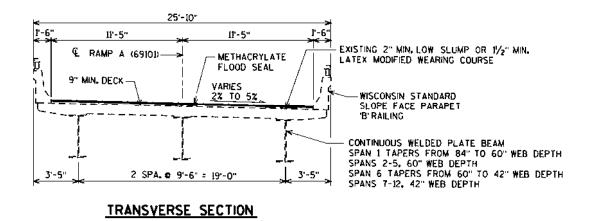




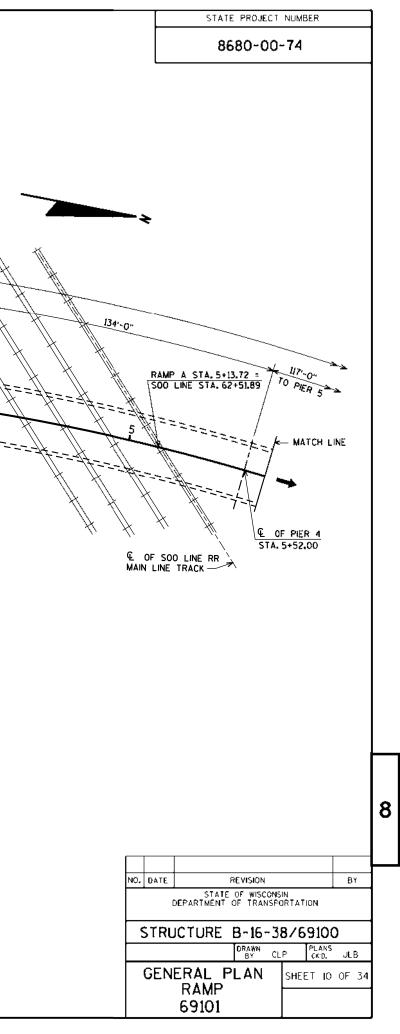


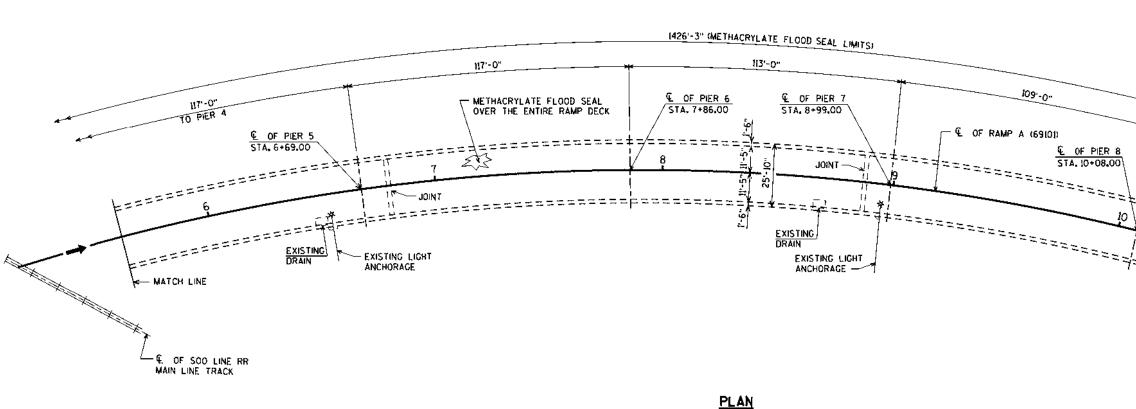








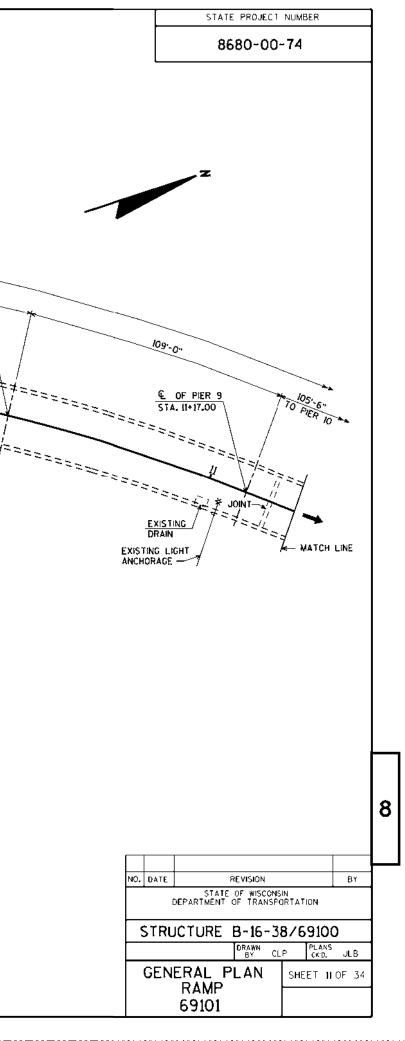


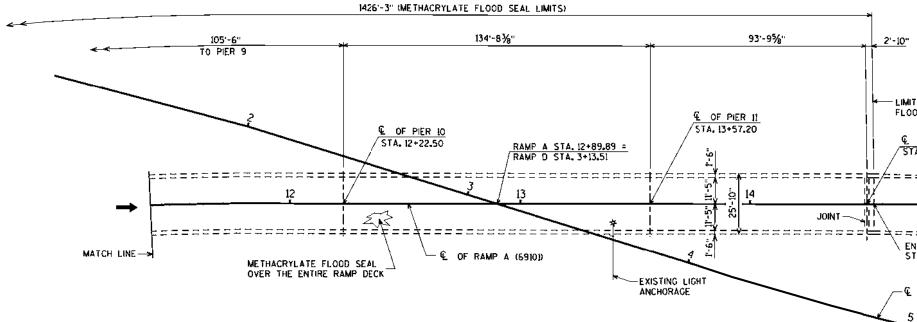


WELDED STEEL PLATE GROER METHACRYLATE FLOOD SEAL

\$PRFNAME\$ I:±41±410903

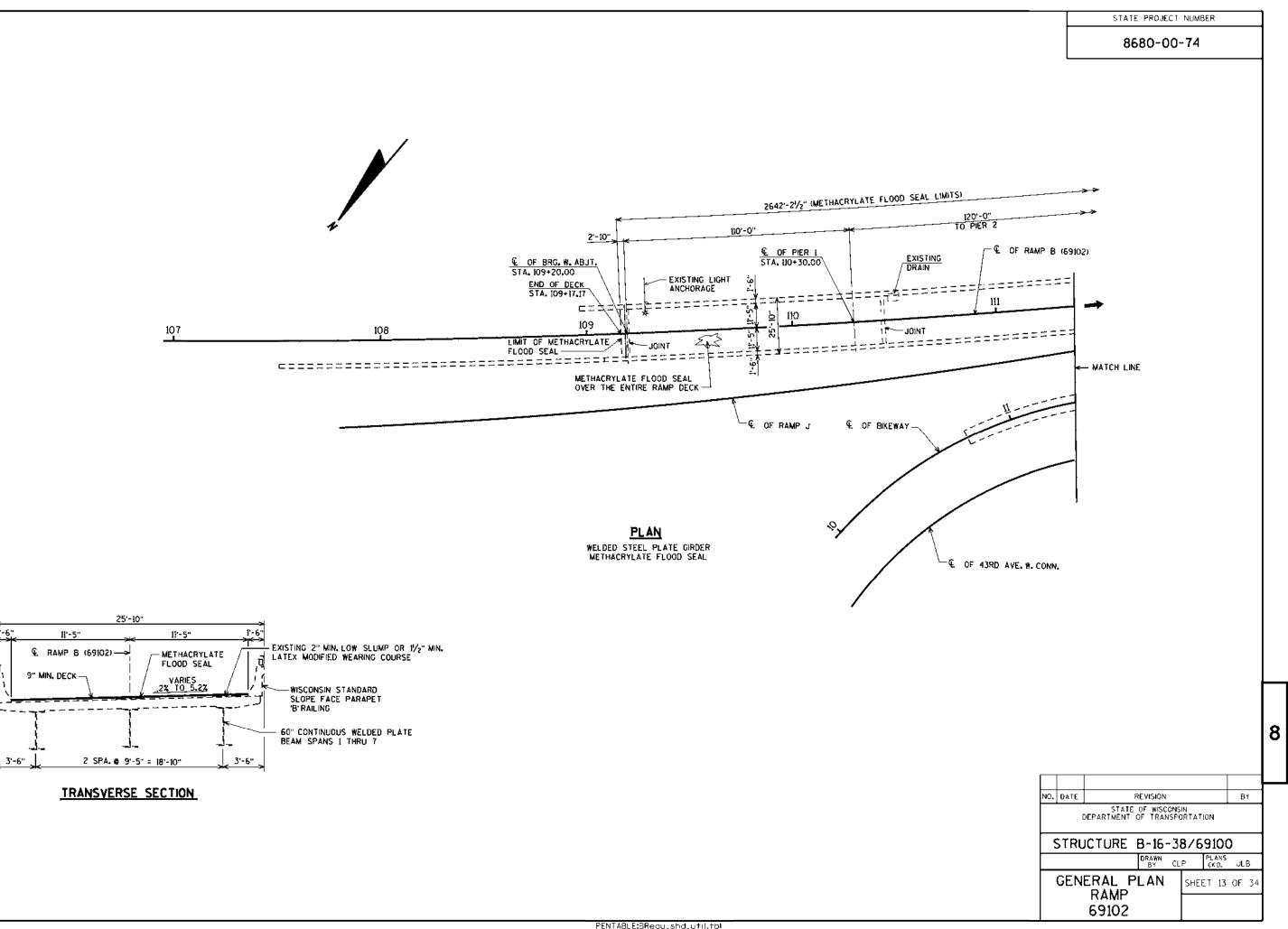
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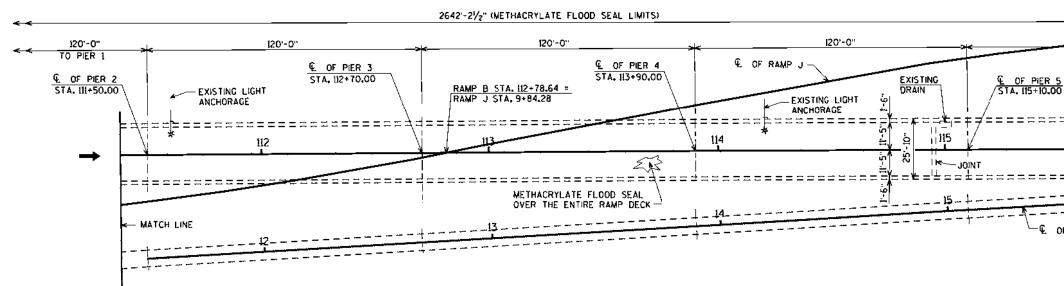




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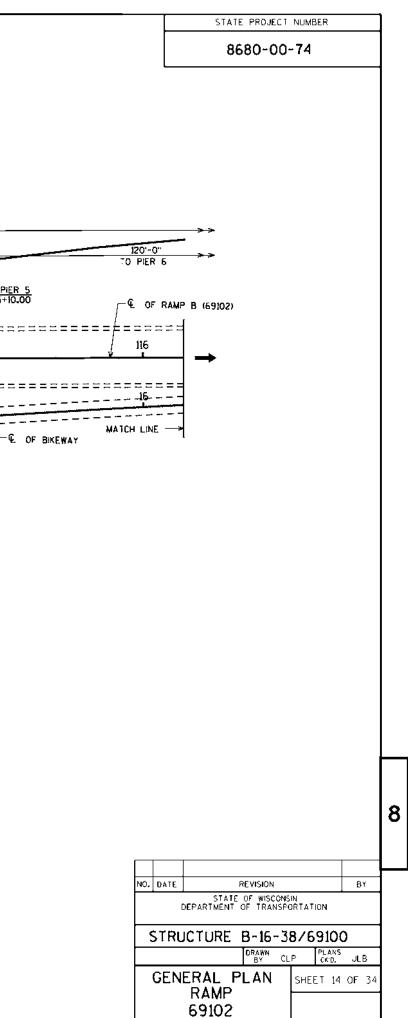
17-6

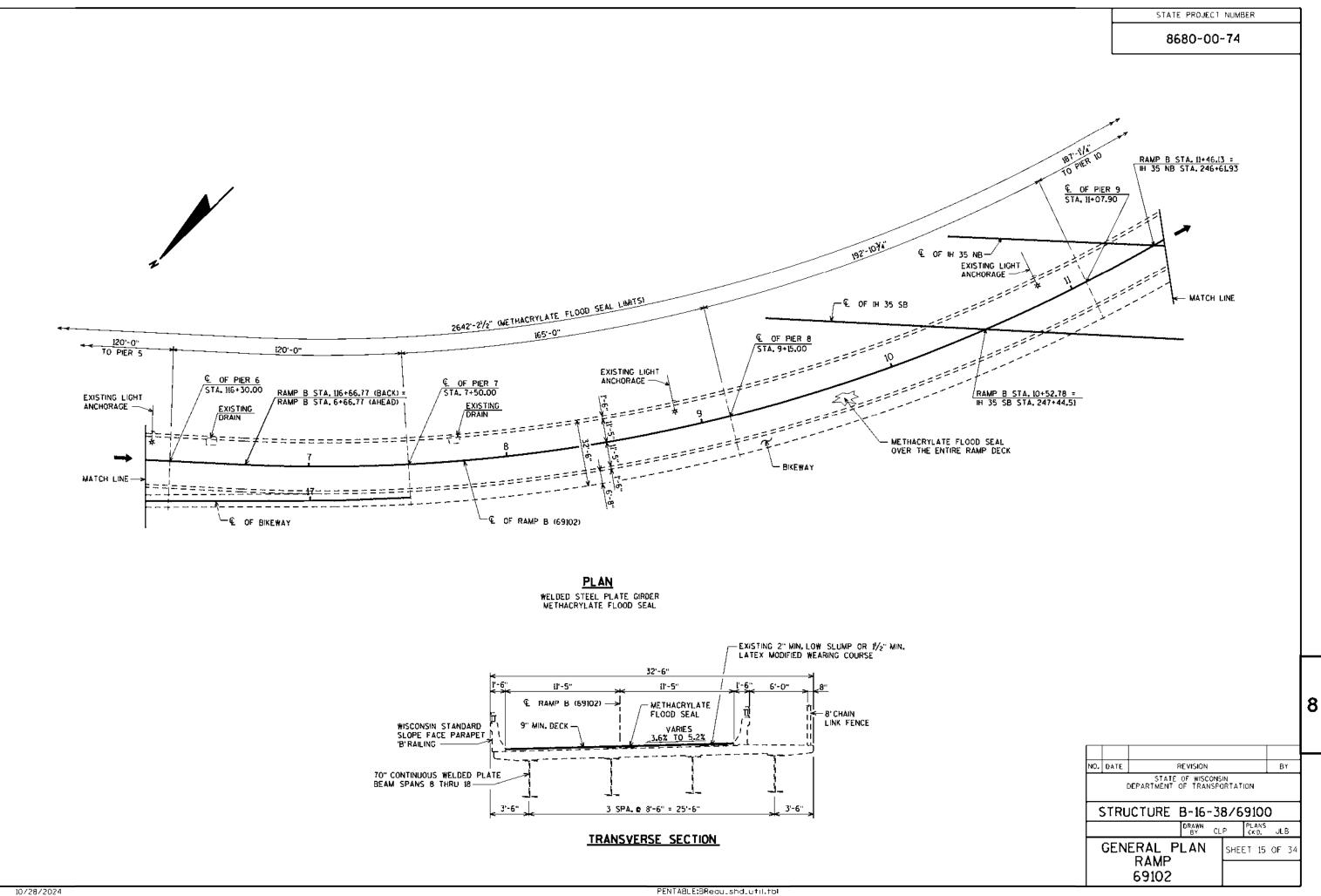


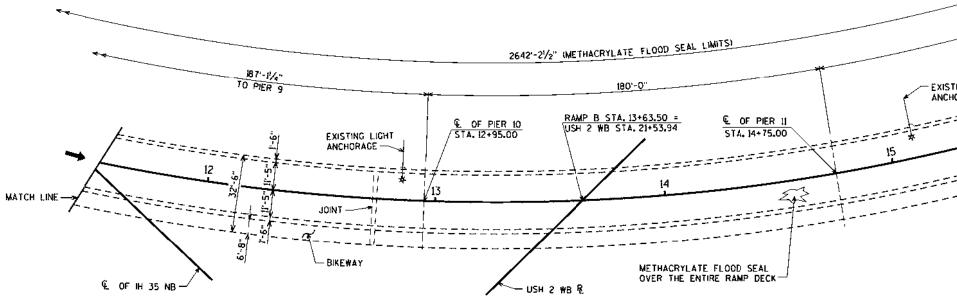


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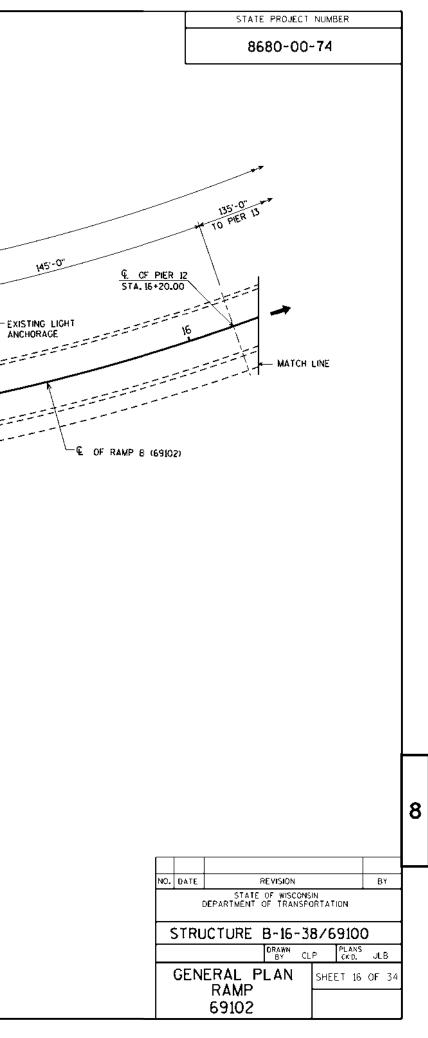
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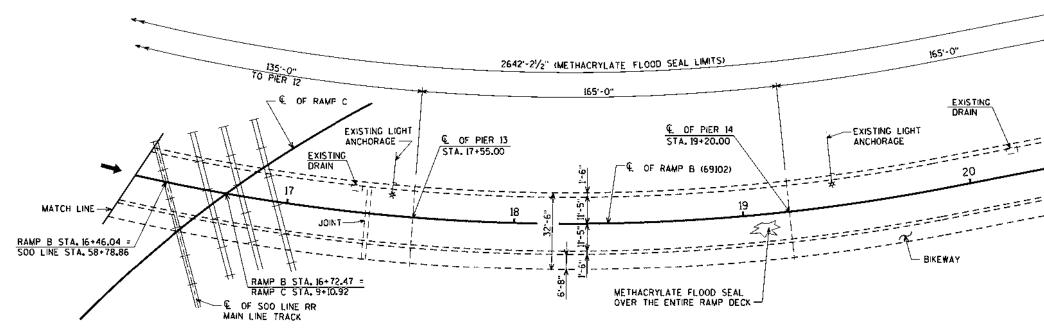






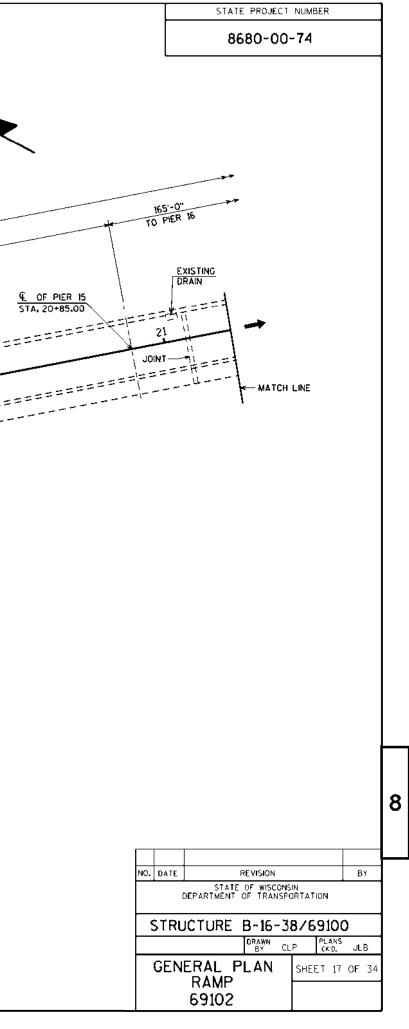
PLAN WELDED STEEL PLATE GIRDER METHACRYLATE FLOOD SEAL

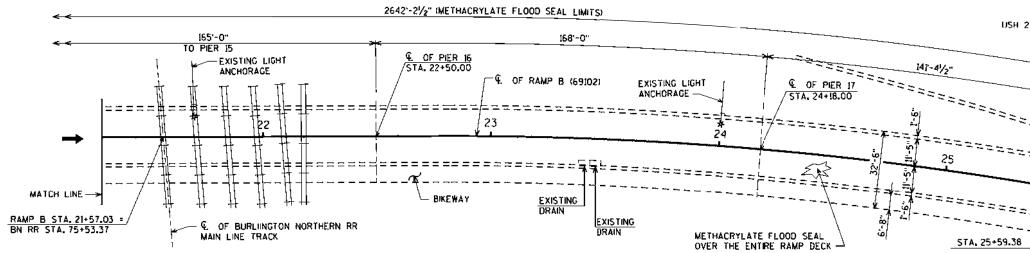






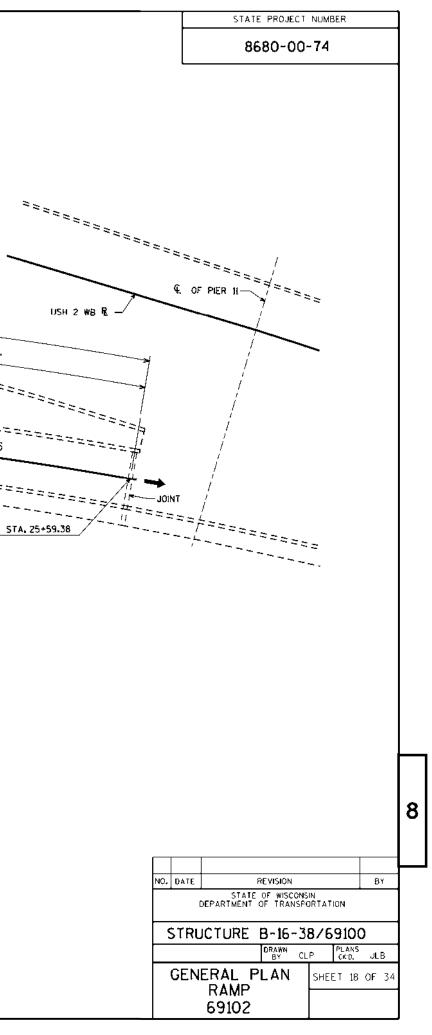
\$PRFNAME\$ I:±41+410903.USH 2 Bong Bridge Painting 86800004±Struc

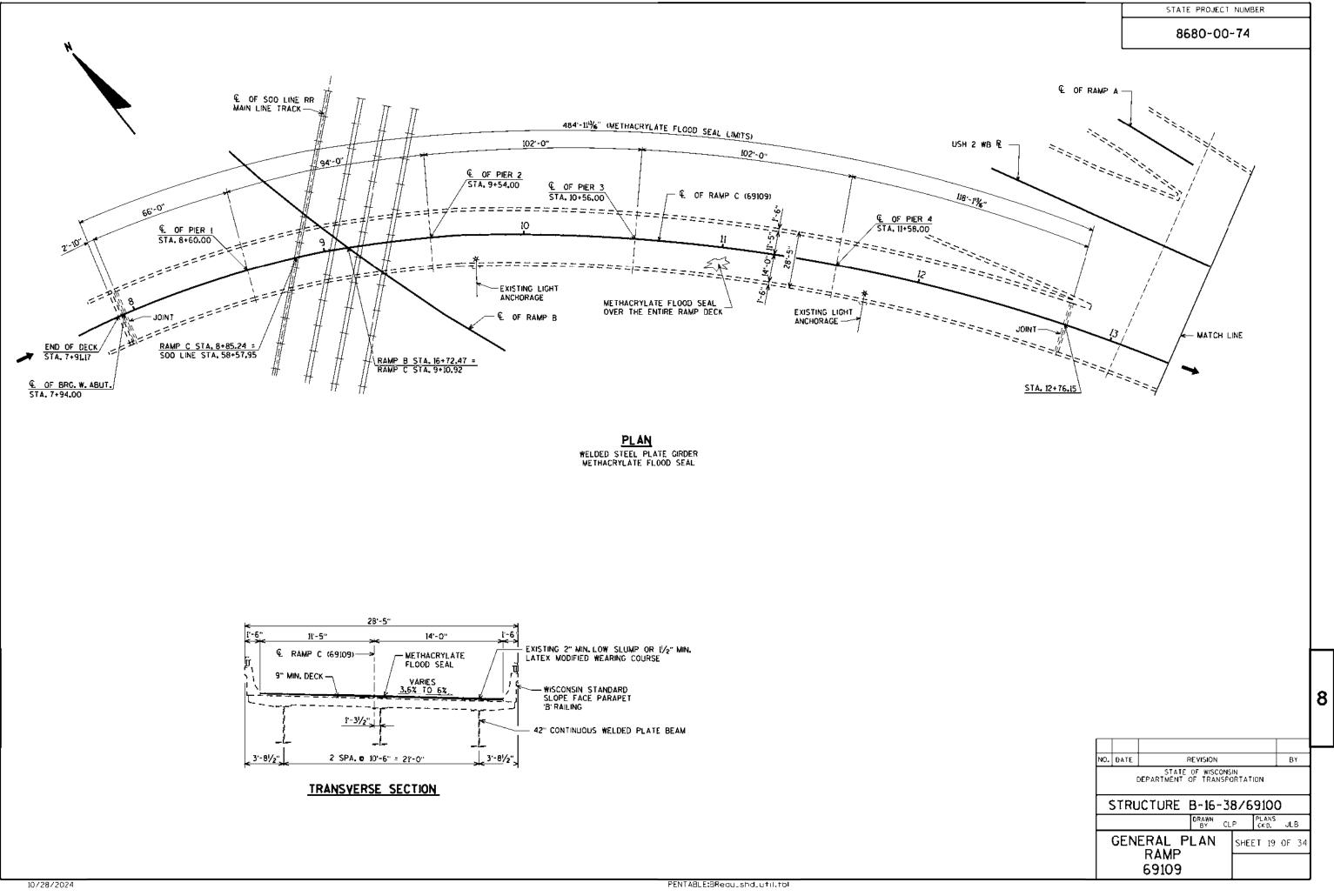


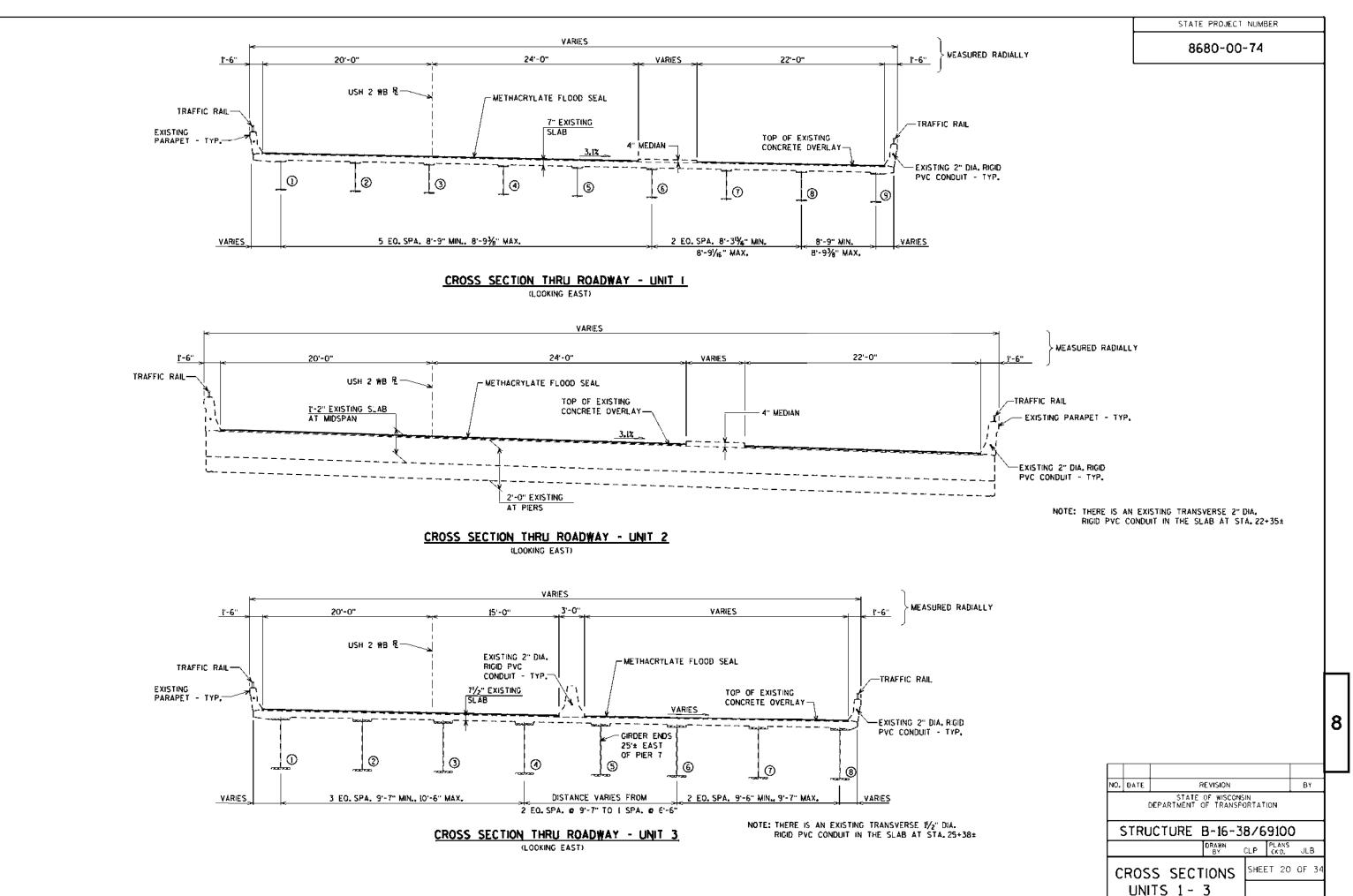








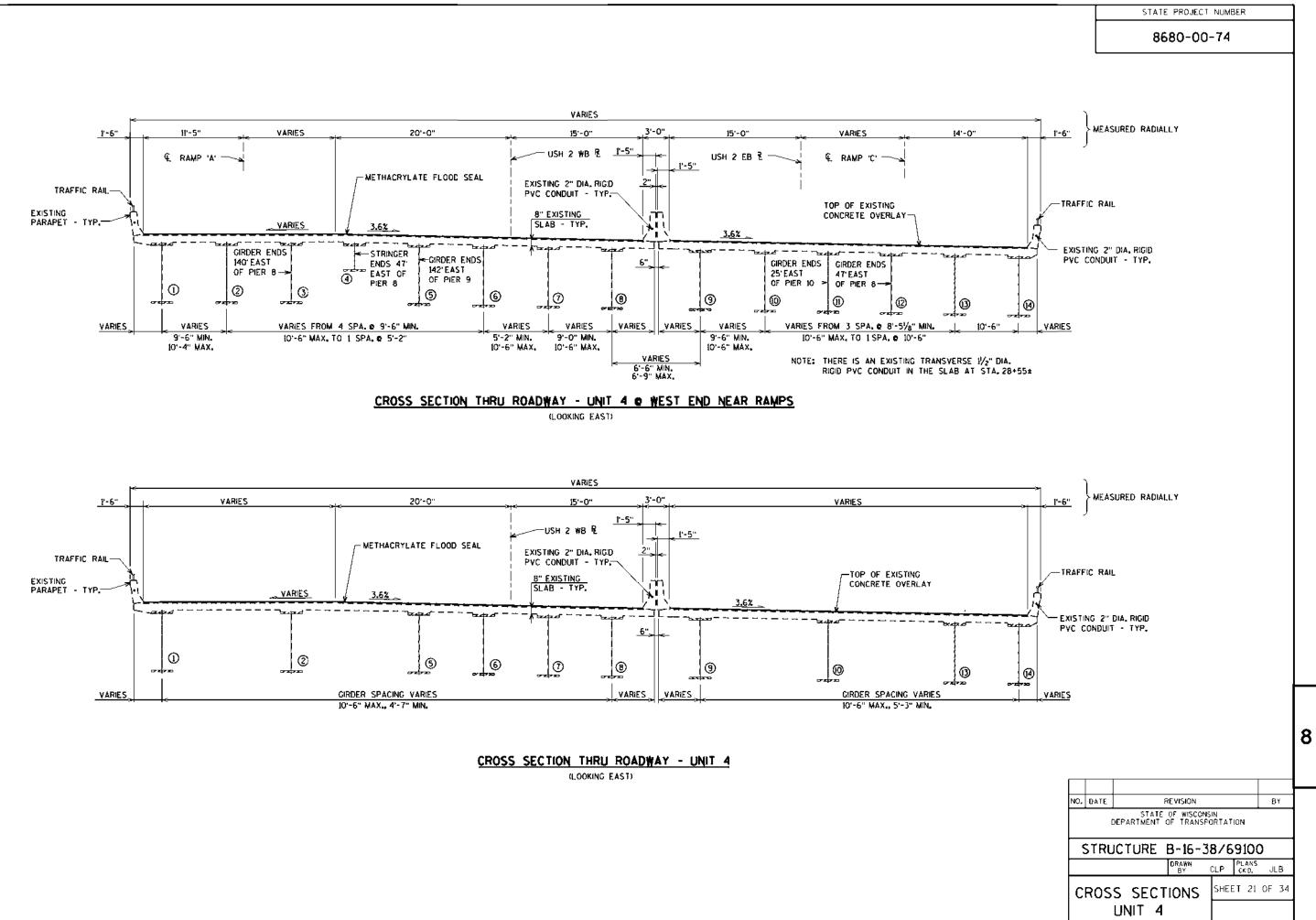




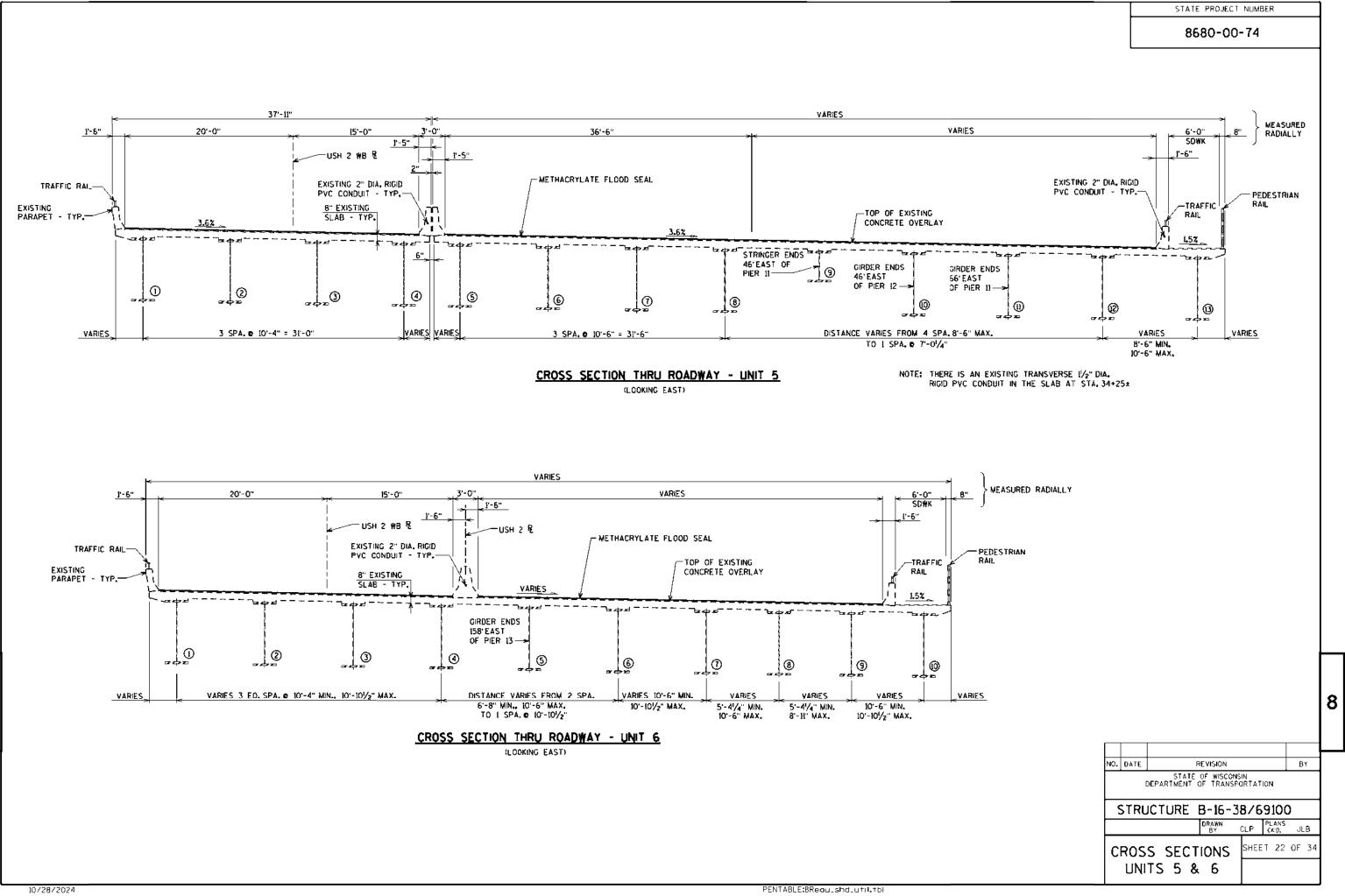
sPRFNAME\$ 1±41)±410903.USH 2 Bong Bridge Painting 86800004±5tructures**±Pr**eliminary±24 42-082:

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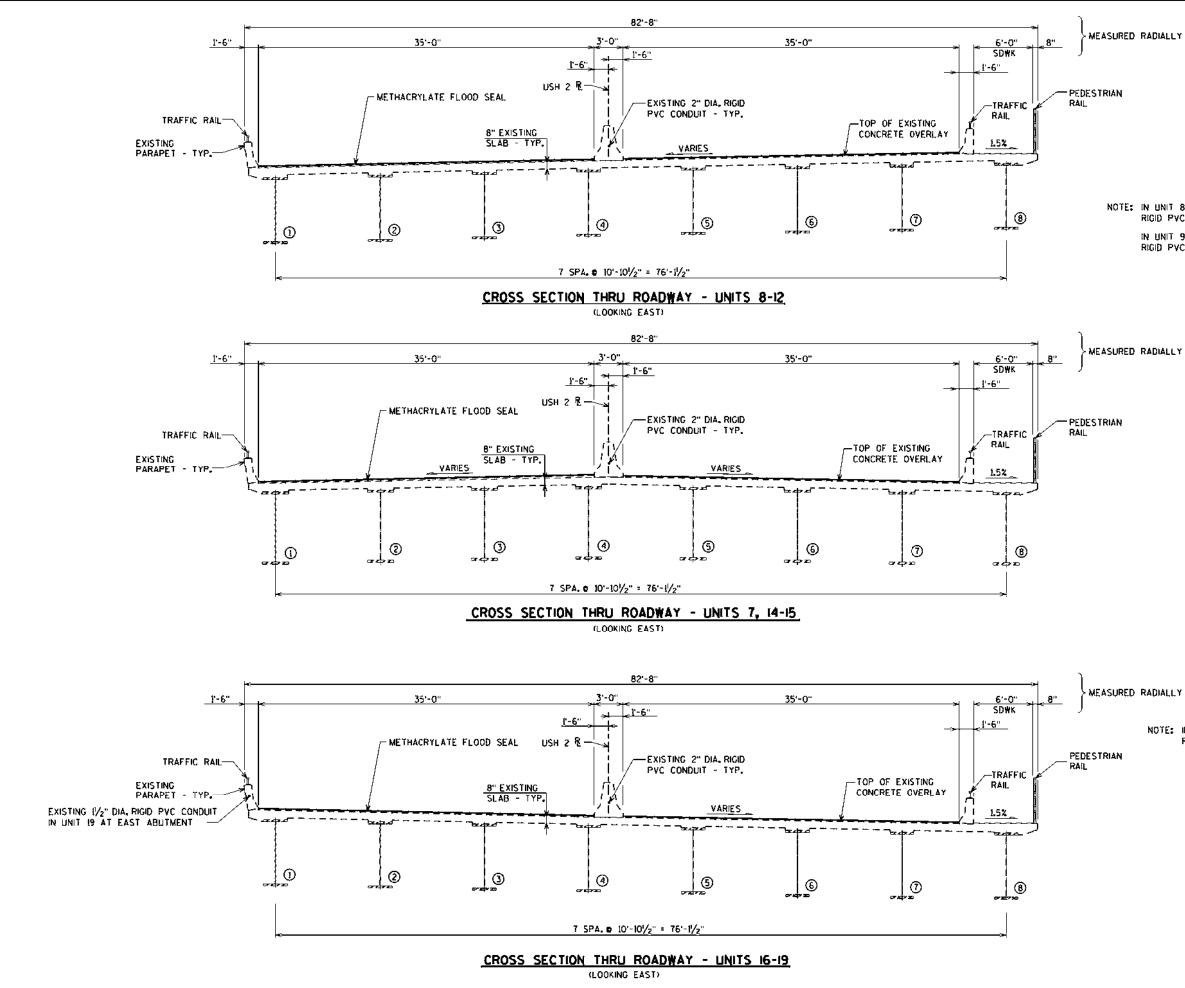






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1:±4]±41090.





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STATE PROJECT NUMBER

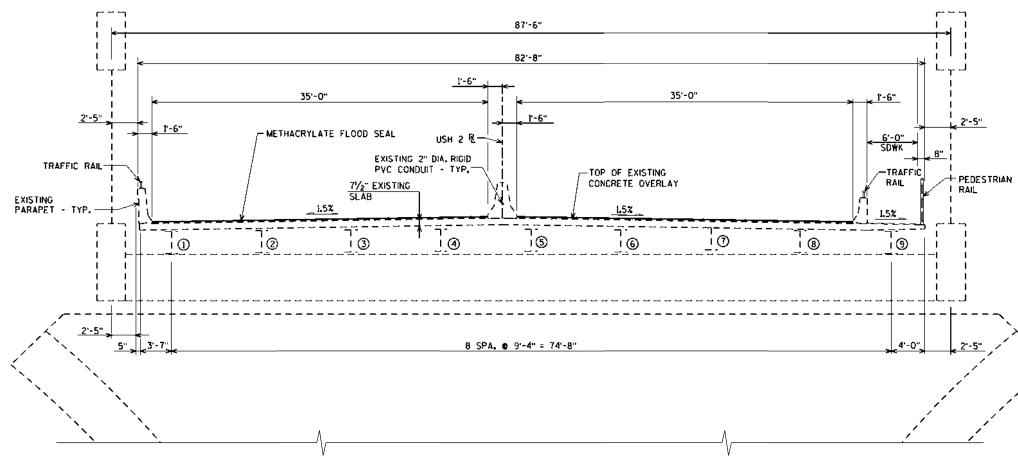
MEASURED RADIALLY

8680-00-74

NOTE: IN UNIT 8, THERE IS AN EXISTING TRANSVERSE 2" DIA. RIGID PVC CONDUIT IN THE SLAB AT STA. 52+00± IN UNIT 9, THERE IS AN EXISTING TRANSVERSE 11/2" DIA. RIGID PVC CONDUIT IN THE SLAB AT STA. 54+48*

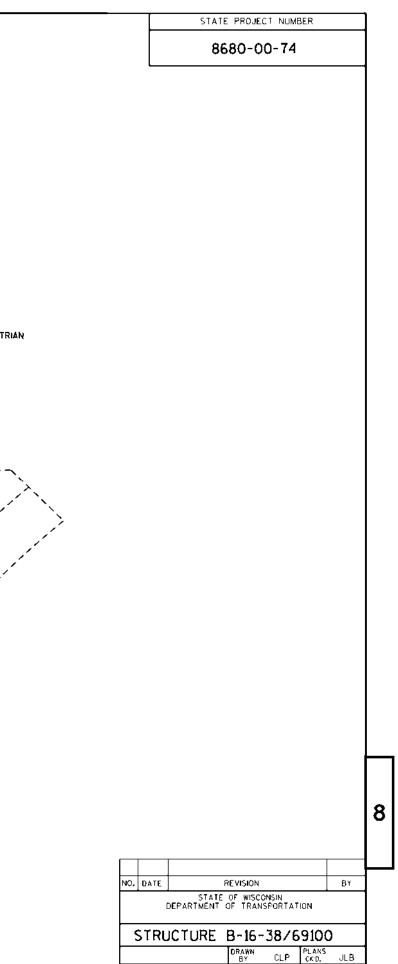
NOTE: IN UNIT 19, THERE IS AN EXISTING TRANSVERSE 1/2" DIA. RIGID PVC CONDUIT IN THE SLAB AT STA. 101+51±

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NO.	DATE	F	REVISION			BY	
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Ś	STRU	ICTURE	B-16-3	8/69	100)	
			DRAWN BY		PLANS CK'D.	JLB	
С	ROS	S SECT	IONS	SHEET	23	OF 34	
ປ	NITS	5 7-12,	14-19				



CROSS SECTION THRU ROADWAY - UNIT 13

(LOOKING EAST)



CROSS SECTION

UNIT 13

SHEET 24 OF 34

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
203.0270	REMOVING STRUCTURE OVER WATERWAY DEBRIS CAPTURE B-16-38	EACH	1
509.1500	CONCRETE SURFACE REPAIR	SF	1,500
517.3001.S	STRUCTURE OVERCOATING CLEANING AND PRIMING B-16-38	EACH	1
517.4001.S	CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-16-38	EACH	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY B-16-38	EACH	1
SPV.0090.01	STRIP SEAL GLAND REPLACEMENT	LF	166
SPV.0180.01	METHACRYLATE FLOOD SEAL	SY	78,510

DESIGN DATA (10/08/24 RATING OBTAINED FROM HSI)

LIVE LOAD:

DESIGN LOA	ADING: H						
INVENTORY	RATING:	HS-28					
OPERATING	RATING:	HS-47					
WISCONSIN	STANDARD	PERMIT	VEHICLE	(WIS-SPV)	=	250	KIPS

TRAFFIC DATA:

A.D.T. =	17,900	(2021)
A.D.T. =	21,480	(2041)
R.D.S. =	60 M.P.	.н.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL PLANS.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A $\frac{1}{2}$ " DEEP SAW CUT.

CONCRETE SURFACE REPAIR SHALL BE AS DETERMINED BY THE ENGINEER IN THE FIELD.

ORIGINAL CONSTRUCTION YEAR IS 1981.

THE COLOR OF THE FINISH EPOXY TOP COAT FOR THE OUTSIDE OF THE ARCH, TIED ARCH GIRDERS, STRINGERS, FLOOR BEAMS, BEARINGS, AND ALL OTHER MISCELLANEOUS STEEL IN UNIT 13 SHALL BE BLUE (FEDERAL STANDARD COLOR NO. 25240).

THE COLOR OF THE FINISH EPOXY TOP COAT FOR ALL THE INSIDE OF THE TIED ARCH GIRDERS OF UNIT 13 SHALL BE WHITE (FEDERAL STANDARD COLOR NO. 27925).

SCOPE OF WORK

CONCRETE SURFACE REPAIR ON PIERS 29 AND 30 AT LOCATIONS DETERMINED BY THE ENGINEER IN THE FIELD.

METHACRYLATE FLOOD SEAL OF THE ENTIRE DECK EXCLUDING PEDESTRIAN PATH ON B-16-38 (69100), RAMP A (69101), RAMP B (69102), AND RAMP C (69109).

REPLACING THE NEOPRENE STRIP SEAL GLAND AT JOINTS #17 AND #18.

SPOT REPAINTING OF UNIT 13 INCLUDING:

INSIDE TIE GIRDERS WITHIN 4-FEET OF HANGER CONNECTIONS.

INSIDE TIE GIRDERS WITHIN 2-FEET OF BOTTOM SPLICE PLATES. INSIDE TIE GIRDERS BOTTOM AND TOP 6-INCHES WITHIN 2-FEET OF VERTICAL DIAPHRAMS.

OUTSIDE TIE GIRDERS WHOLE LENGTH OF TOP AND AT CORNERS.

OUTSIDE TIE GIRDERS WITHIN 2-FEET OF SPLICE CONNECTIONS.

ALL FRAMING STEEL WITHIN 6-FEET OF A DECK JOINT

- FRAMING STEEL WITHIN 2-FEET OF ANY CONNECTION. ALL FLOOR BEAMS, ENTIRE BOTTOM FLANGE AND LOWER 6-INCHES OF WEB.
- ALL TIED ARCH BEARINGS.

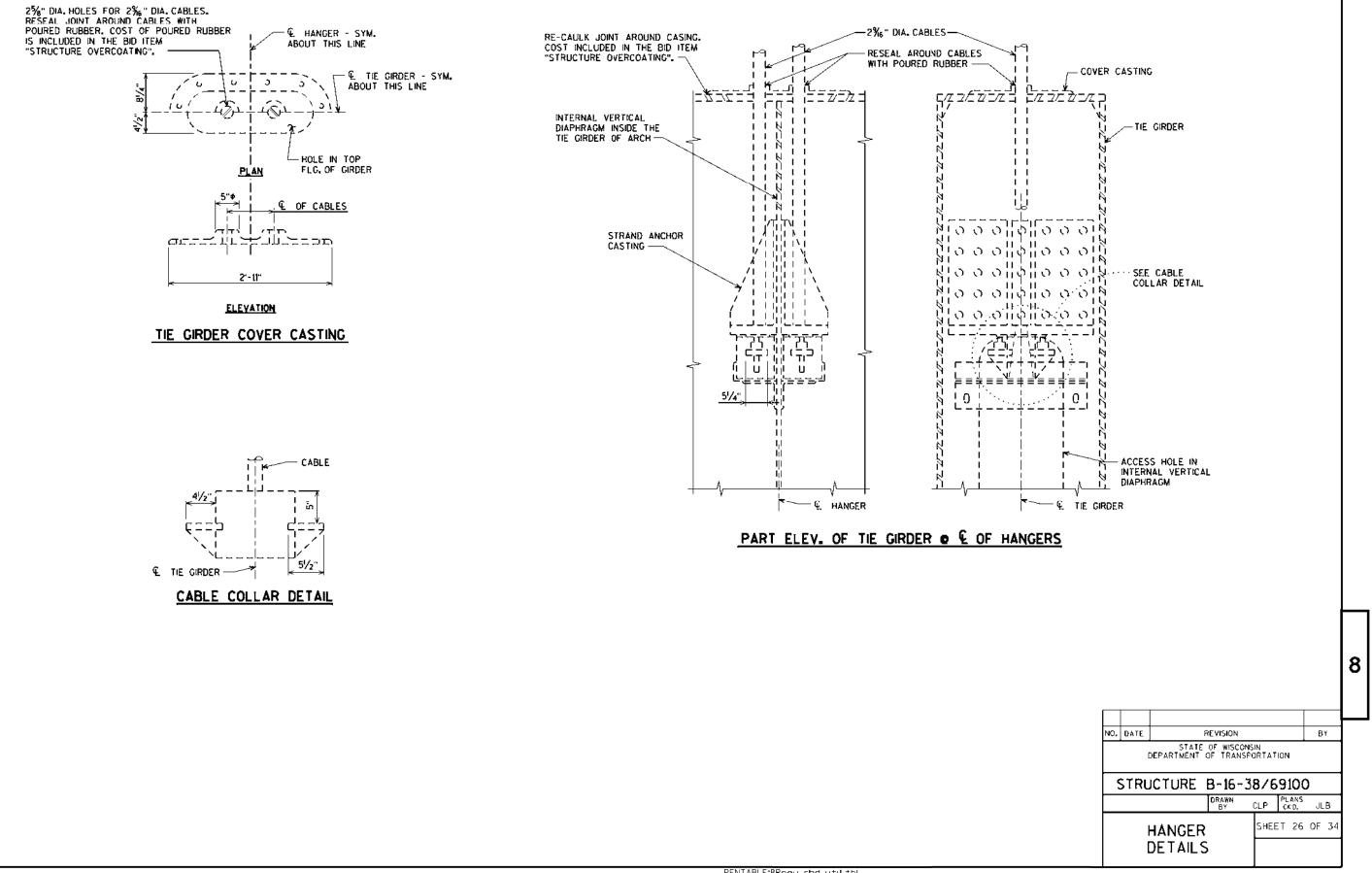
ALL FLAT HORIZONTAL SURFACES ON FRAMING STEEL WHERE WATER CAN POOL.

- ALL ARCH STEEL WITHIN 41'-8" OF THE 4 OF BEARING.
- ANY LOCATIONS DETERMINED BY THE ENGINEER IN THE FIELD.

STATE PROJECT NUMBER

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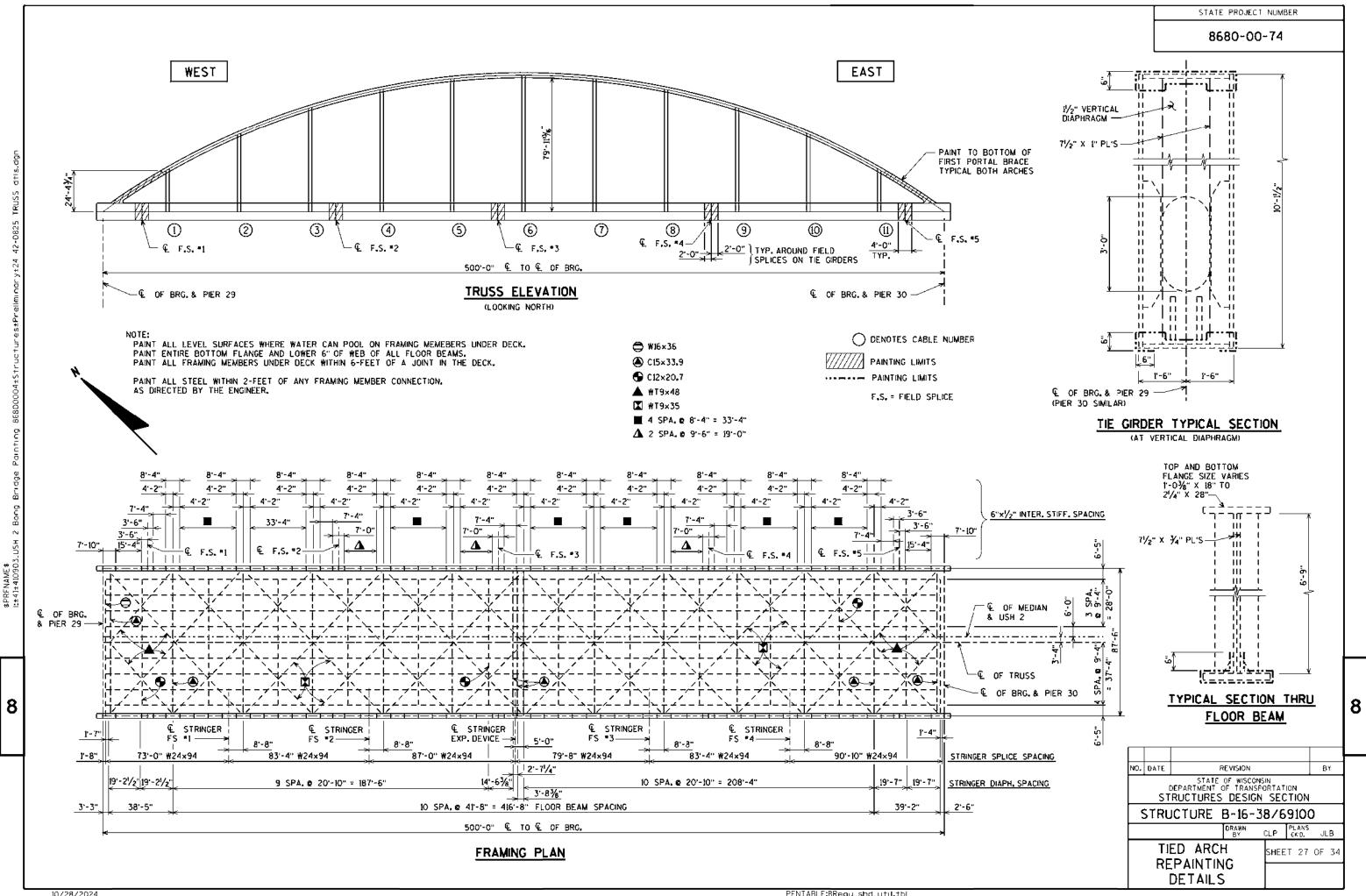
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	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
STRUCTURE B-16-38/69100									
			DRAWN BY	CL	Р	PLANS CK'D.	JL	В	
	QL	SIGN DA JANTITIE ID NOTE	S		SHEE	T 25	OF	34	



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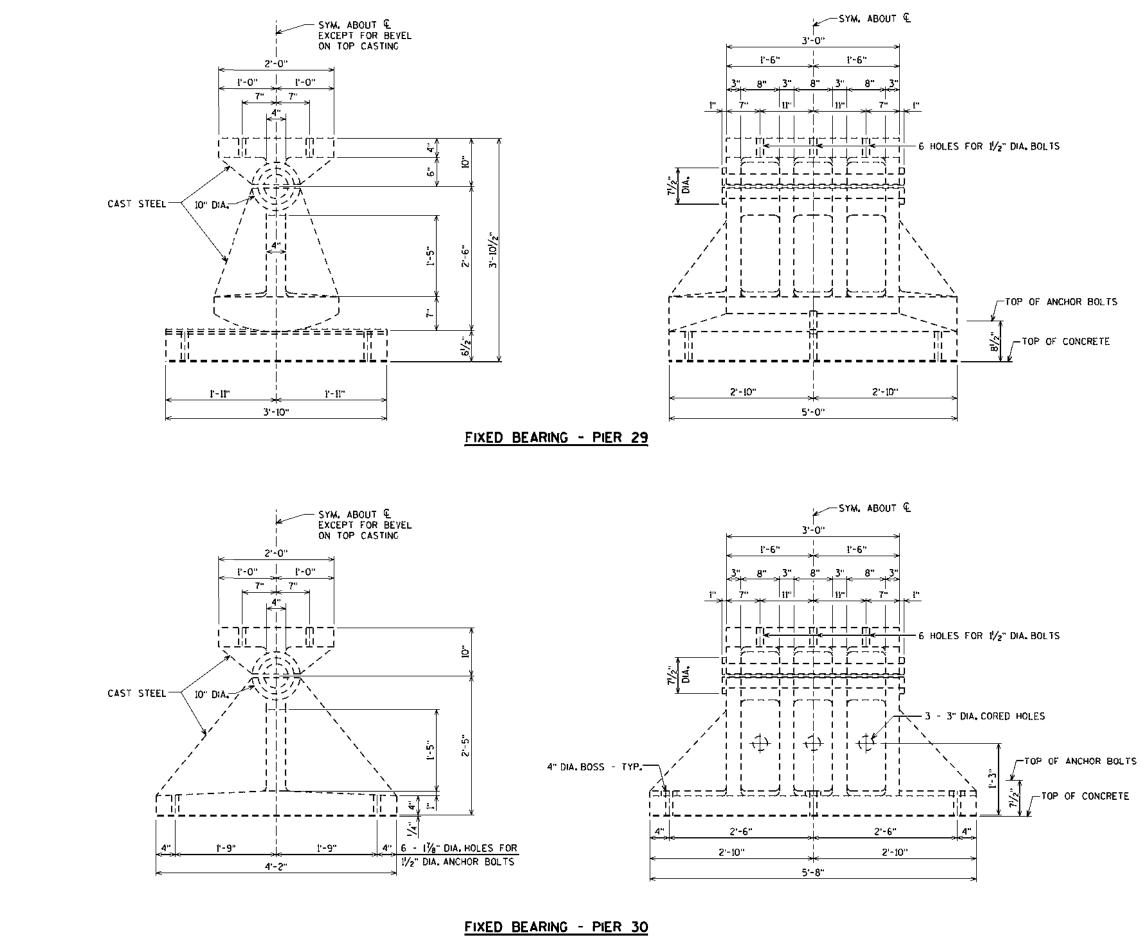
STATE PROJECT NUMBER

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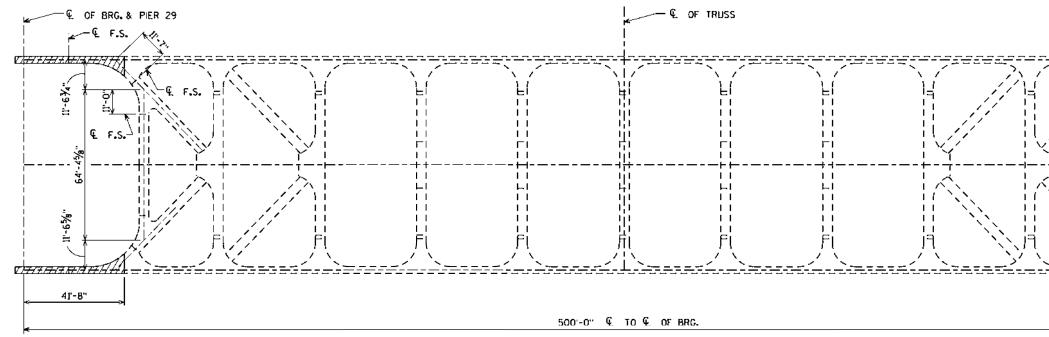
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STATE PROJECT NUMBER

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NOTE: PAINT ENTIRE BEARING ASSEMBLIES

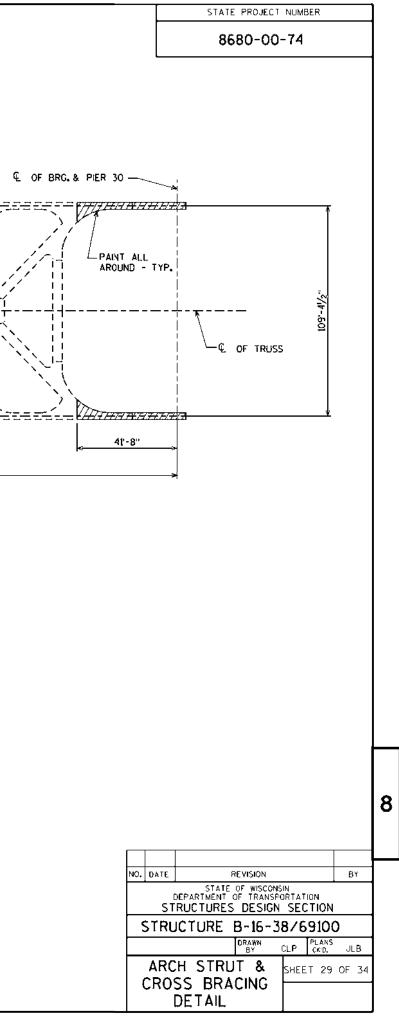
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	[STATE DEPARTMENT	OF WISCO OF TRANS		ICN		
Ś	STRUCTURE B-16-38/69100						
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TIED ARCH BEARINGS		SHE	ET 28	OF 34			

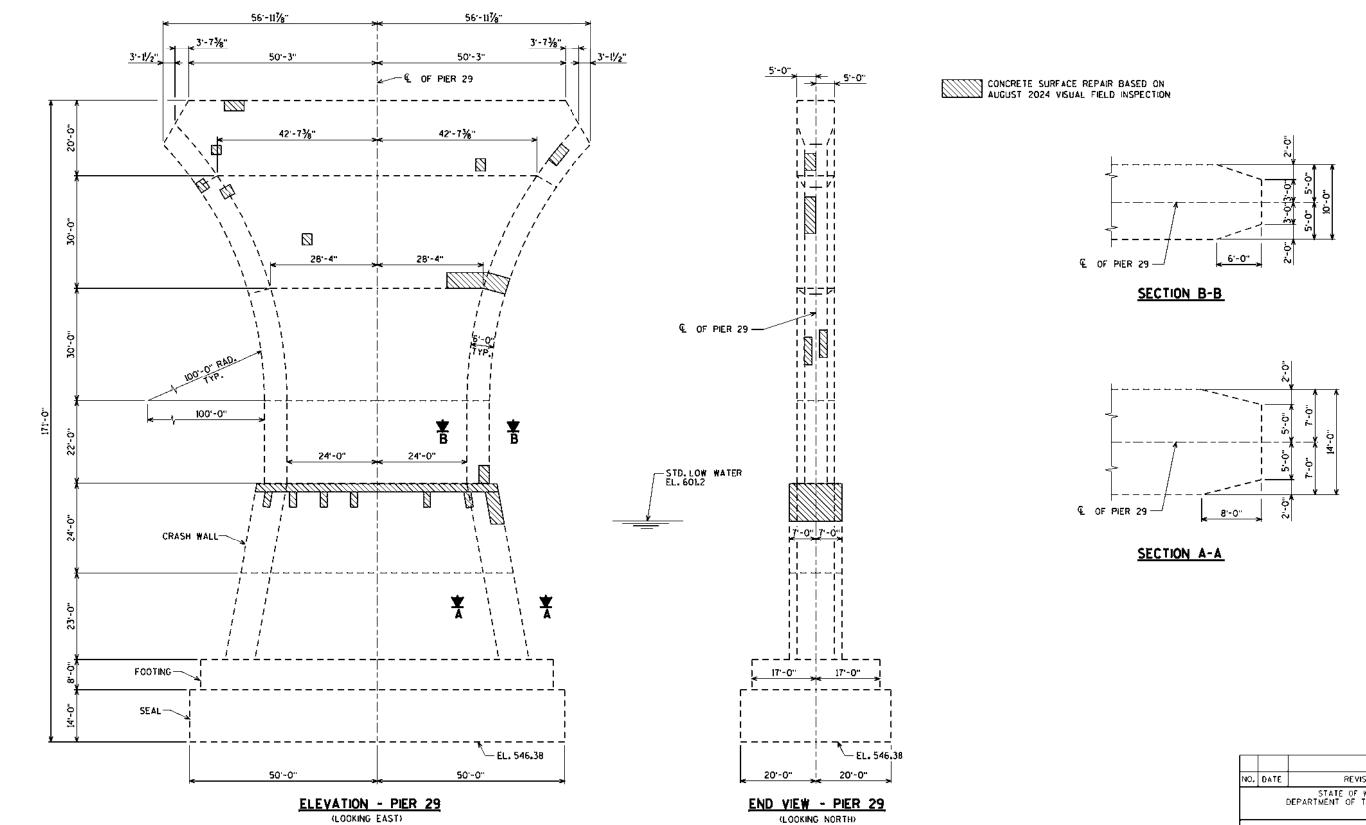


PLAN ARCH STRUT AND CROSS BRACING



F.S. = FIELD SPLICE

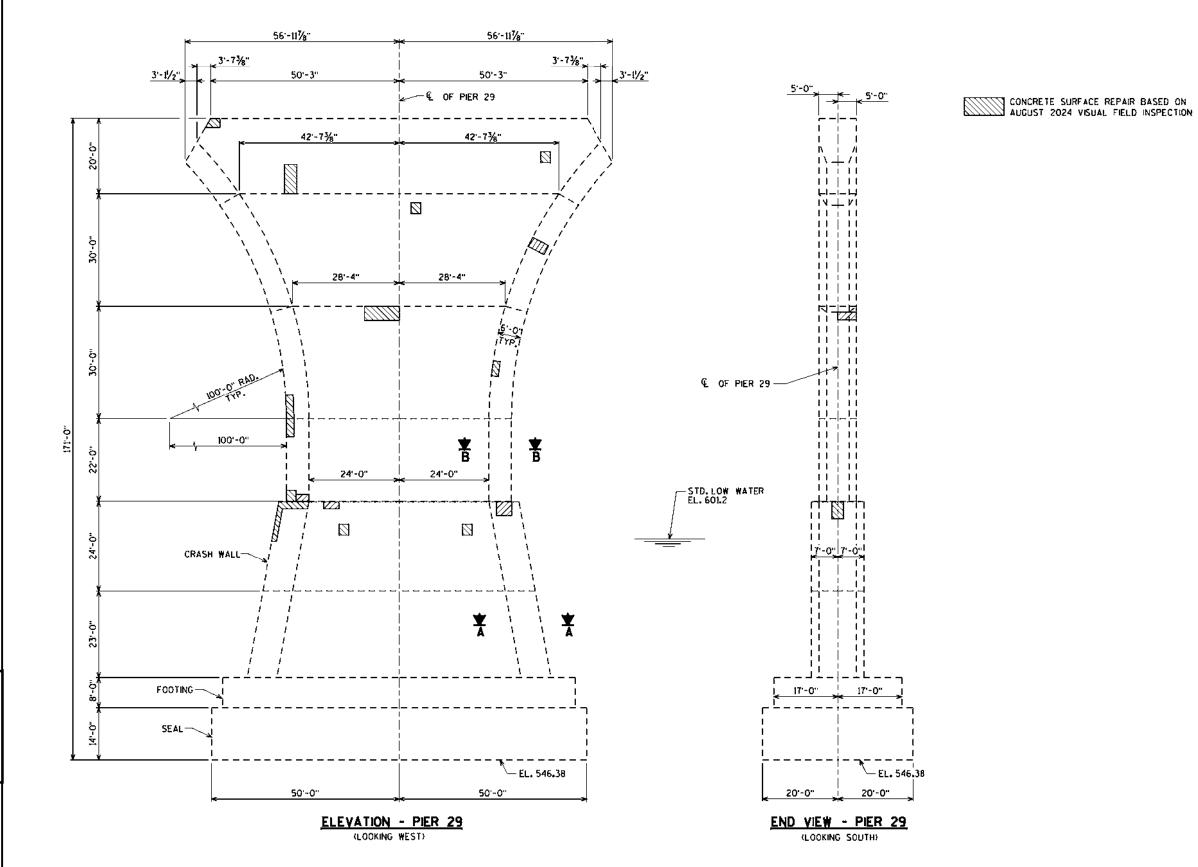






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	STRU	JCTURE	<u>B-16-</u>	38/6		_	
			DRAWN BY	CLP	PLANS CKD.	JLB	
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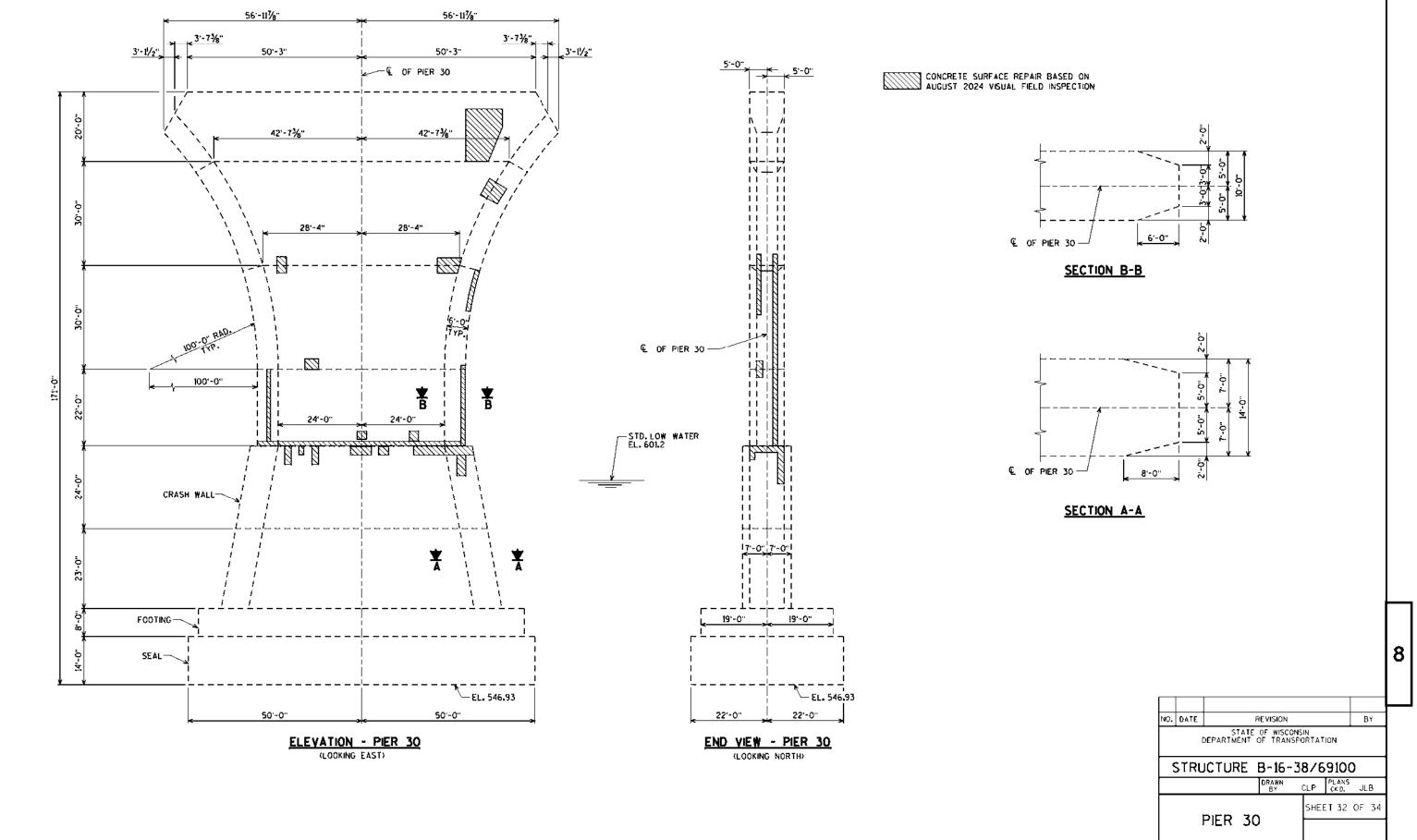
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STATE PROJECT NUMBER

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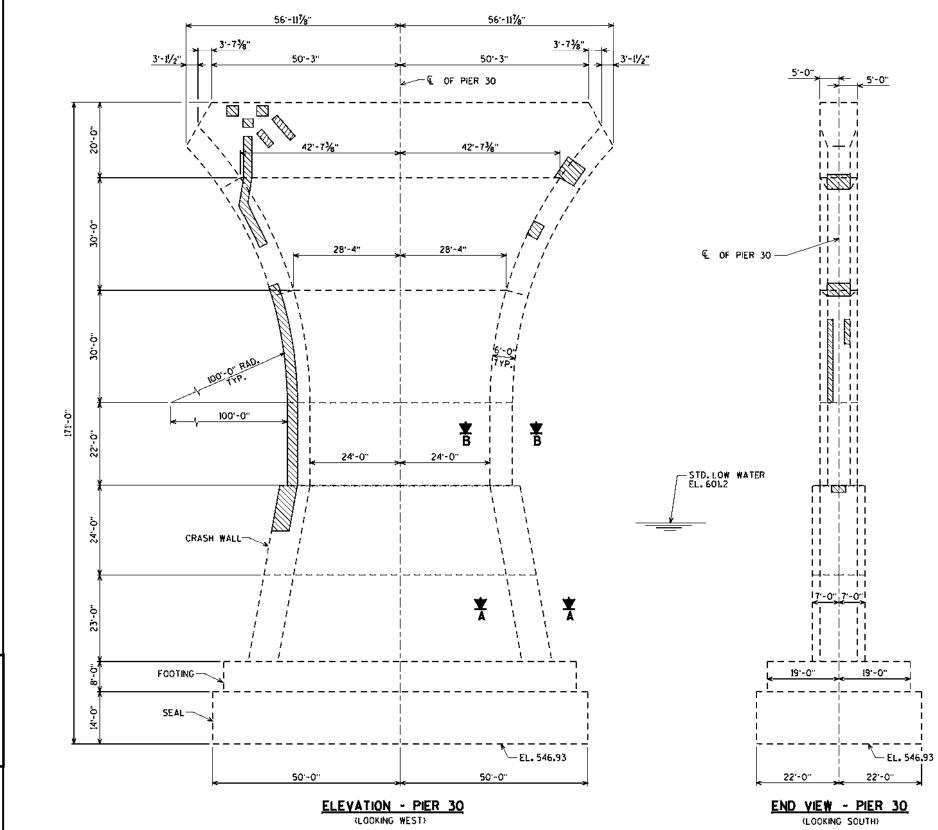
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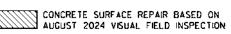
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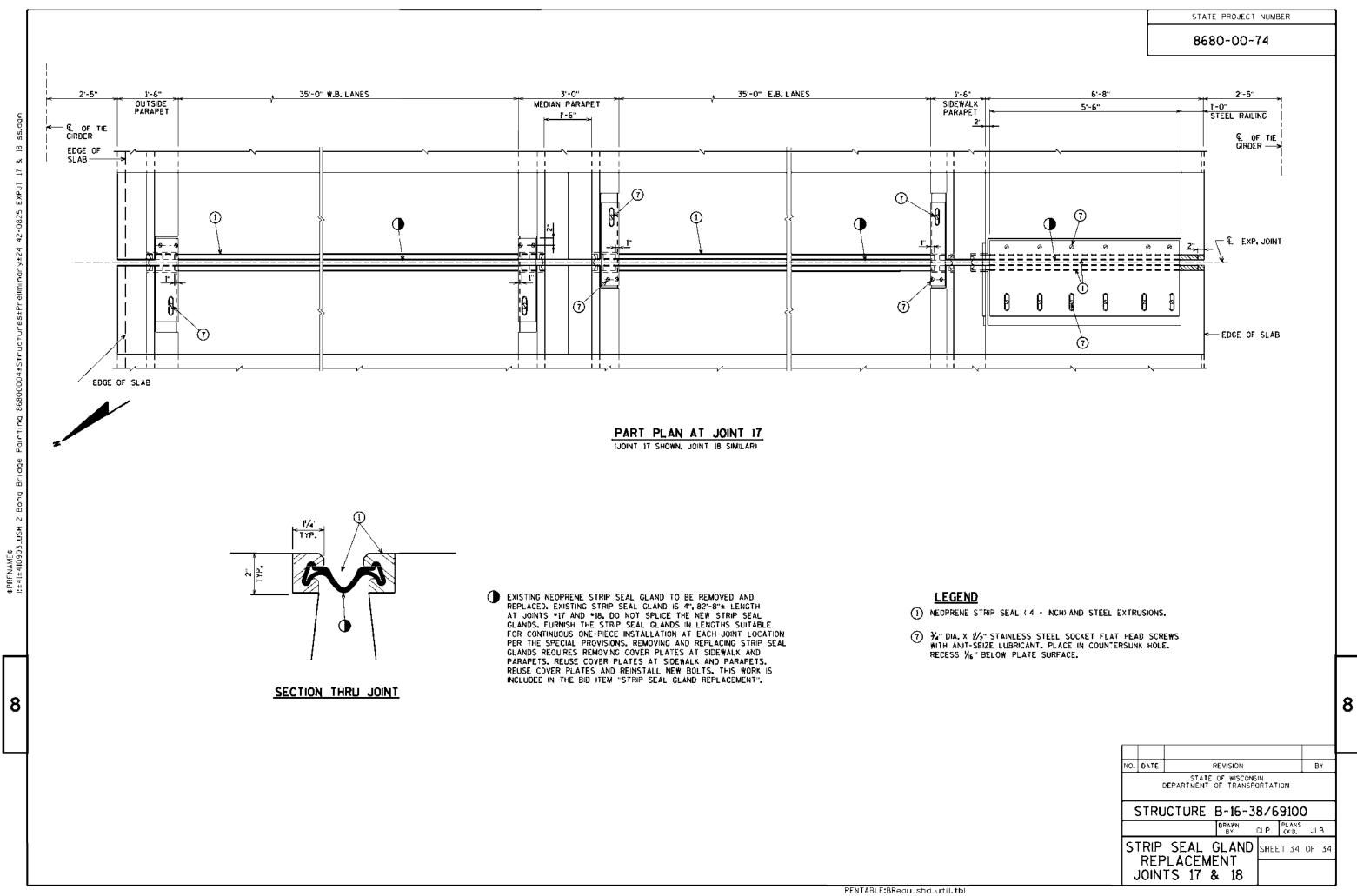




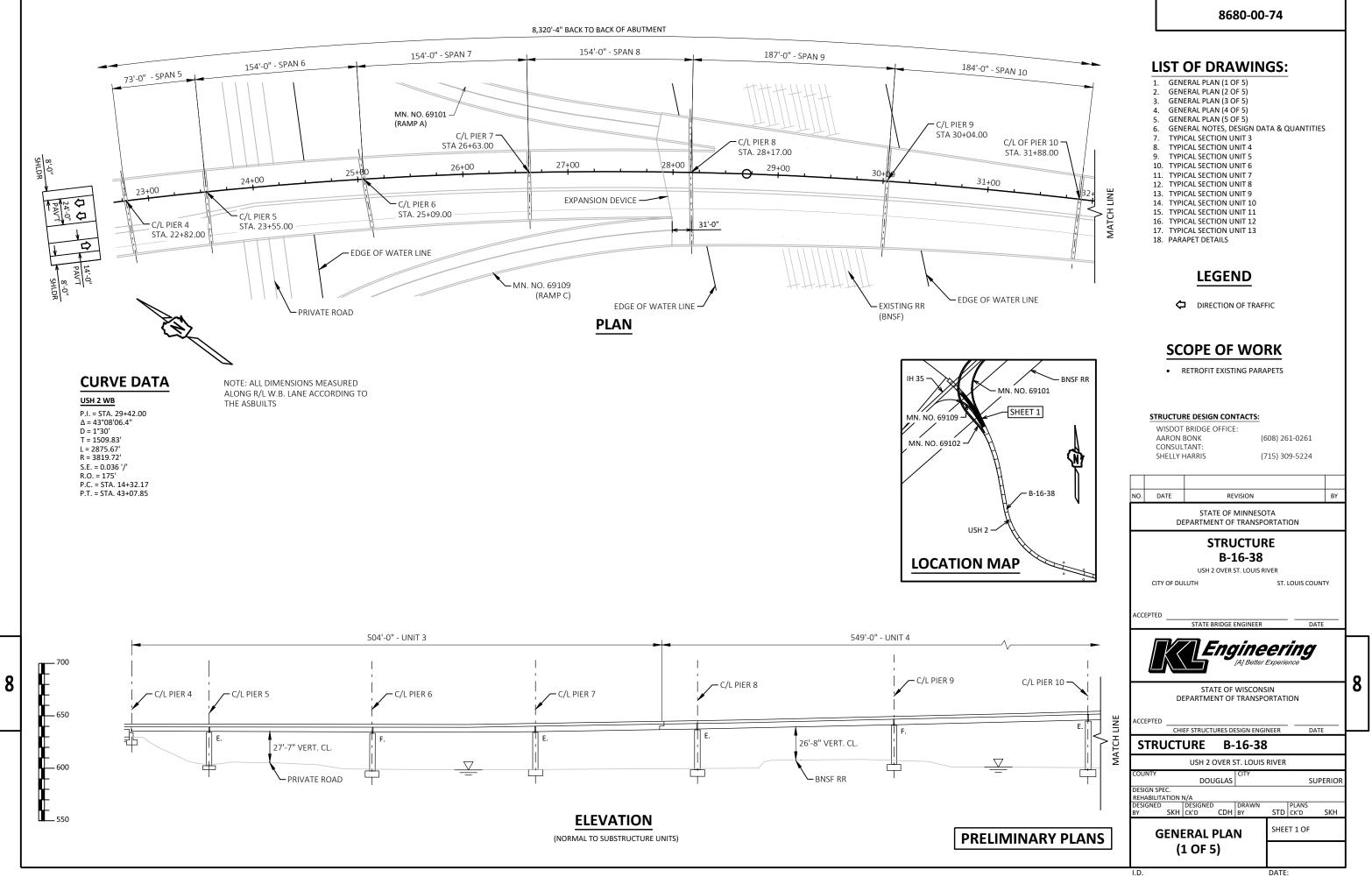
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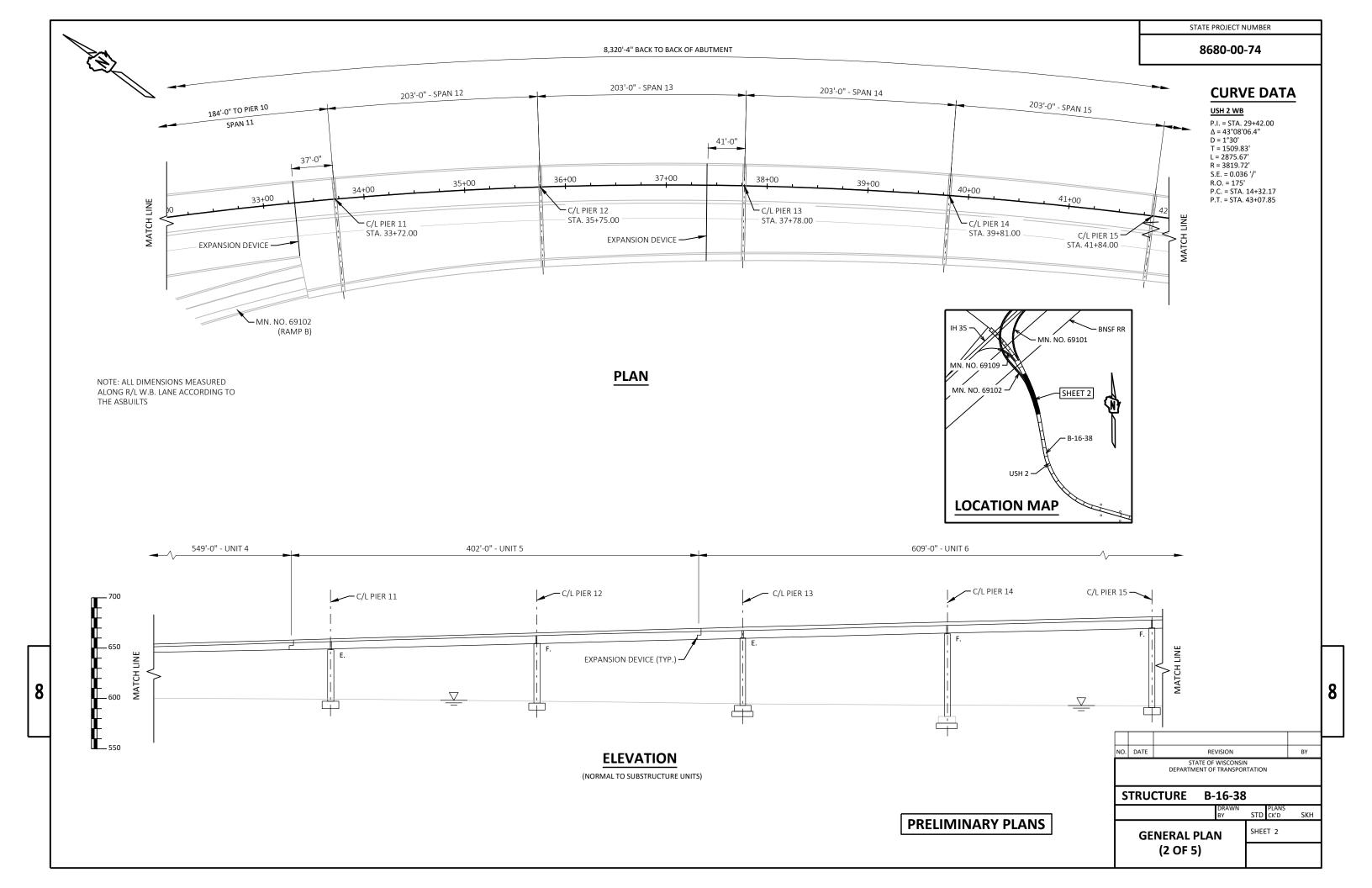
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NO,	DATE	R	EVISION			BY	
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
Ś	STRUCTURE B-16-38/69100						
			DRAWN By	ĊLP	PLANS CKD.	JLB	
PIER 30		SHEE	ET 33	OF 34			

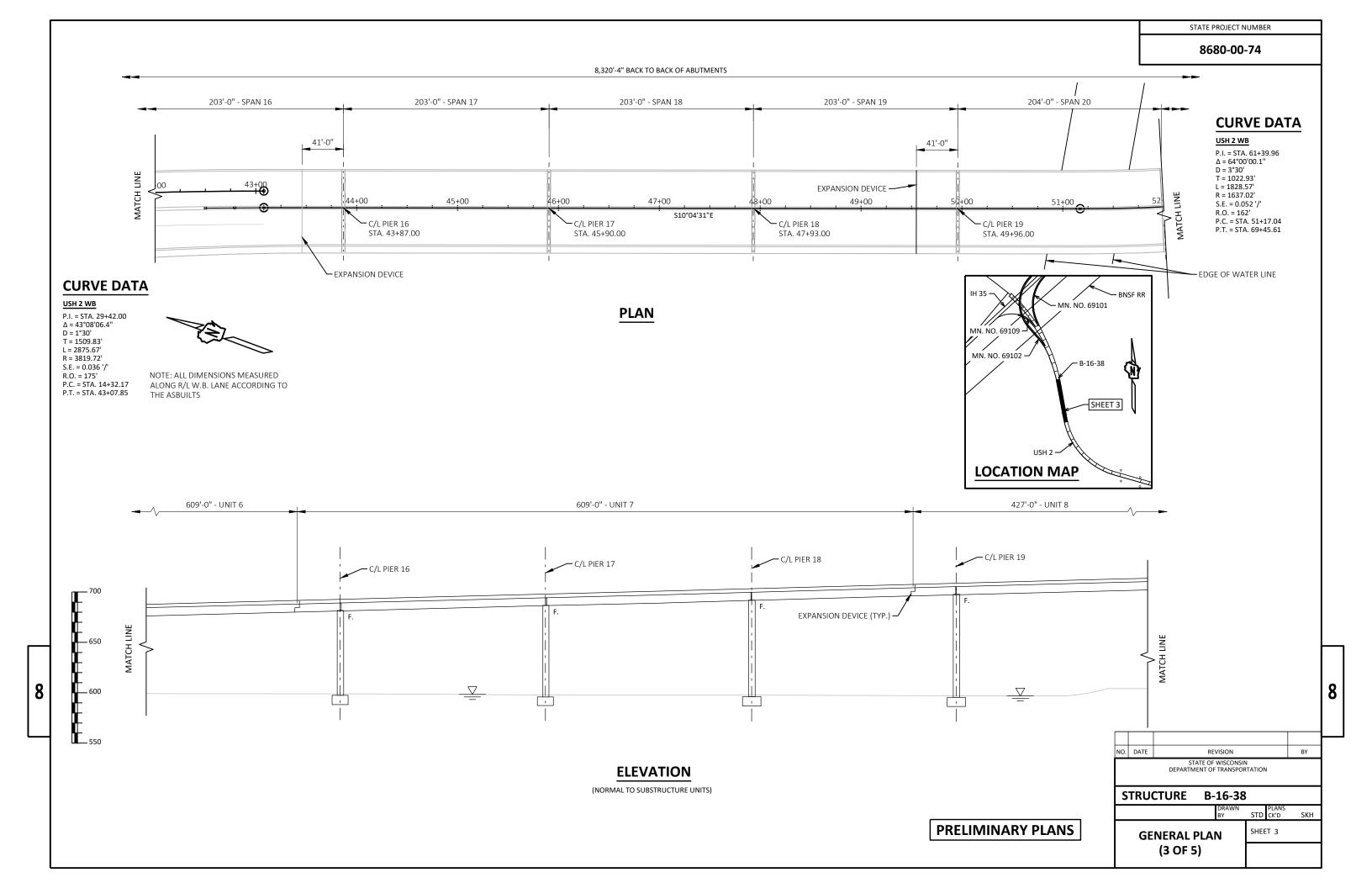


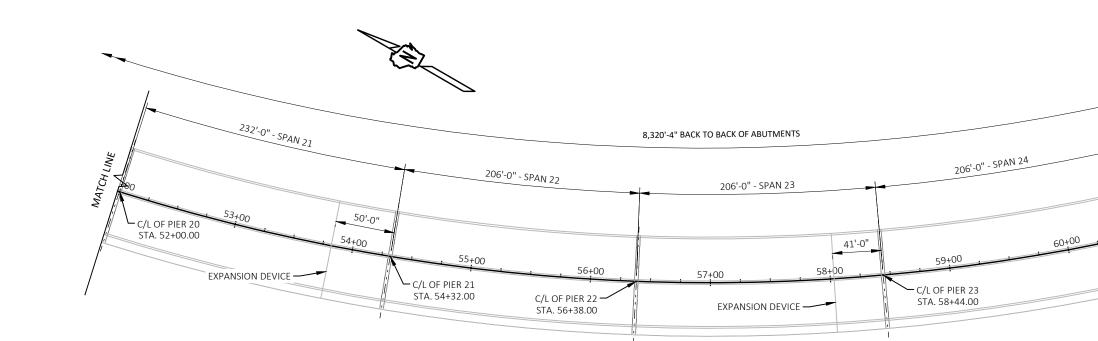








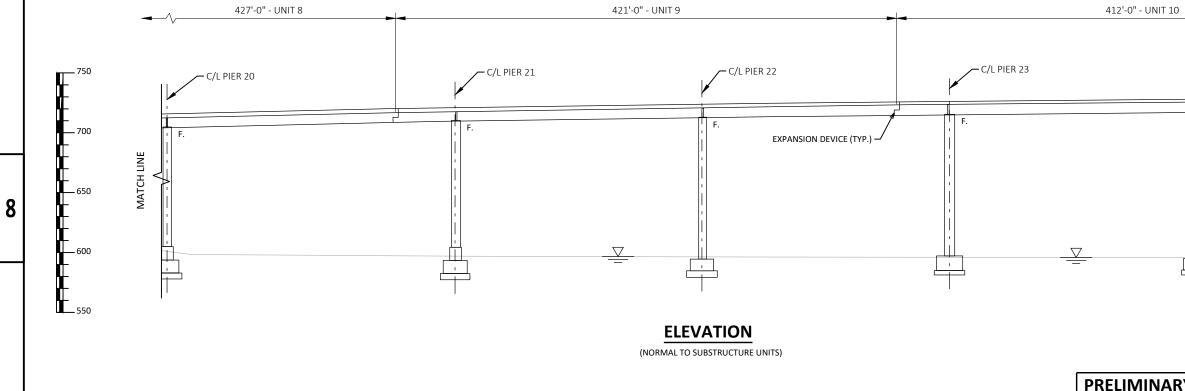


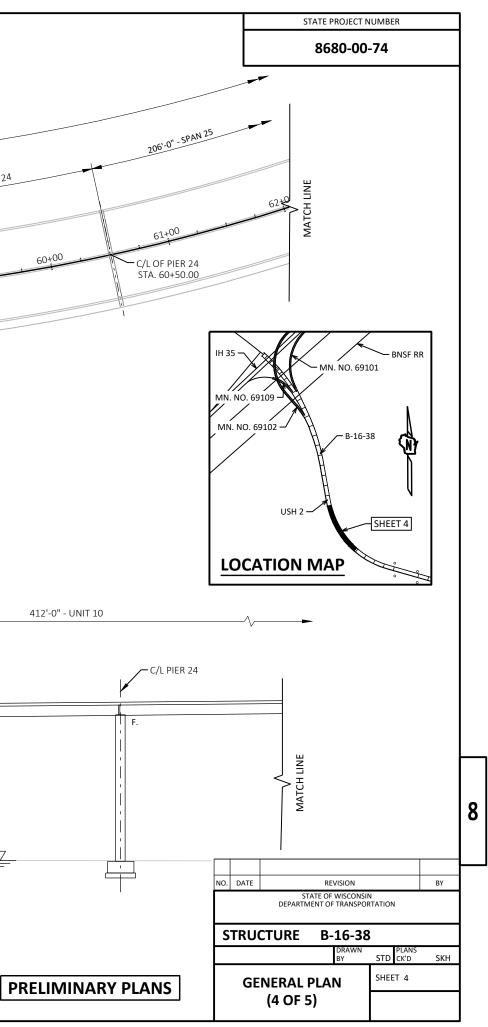


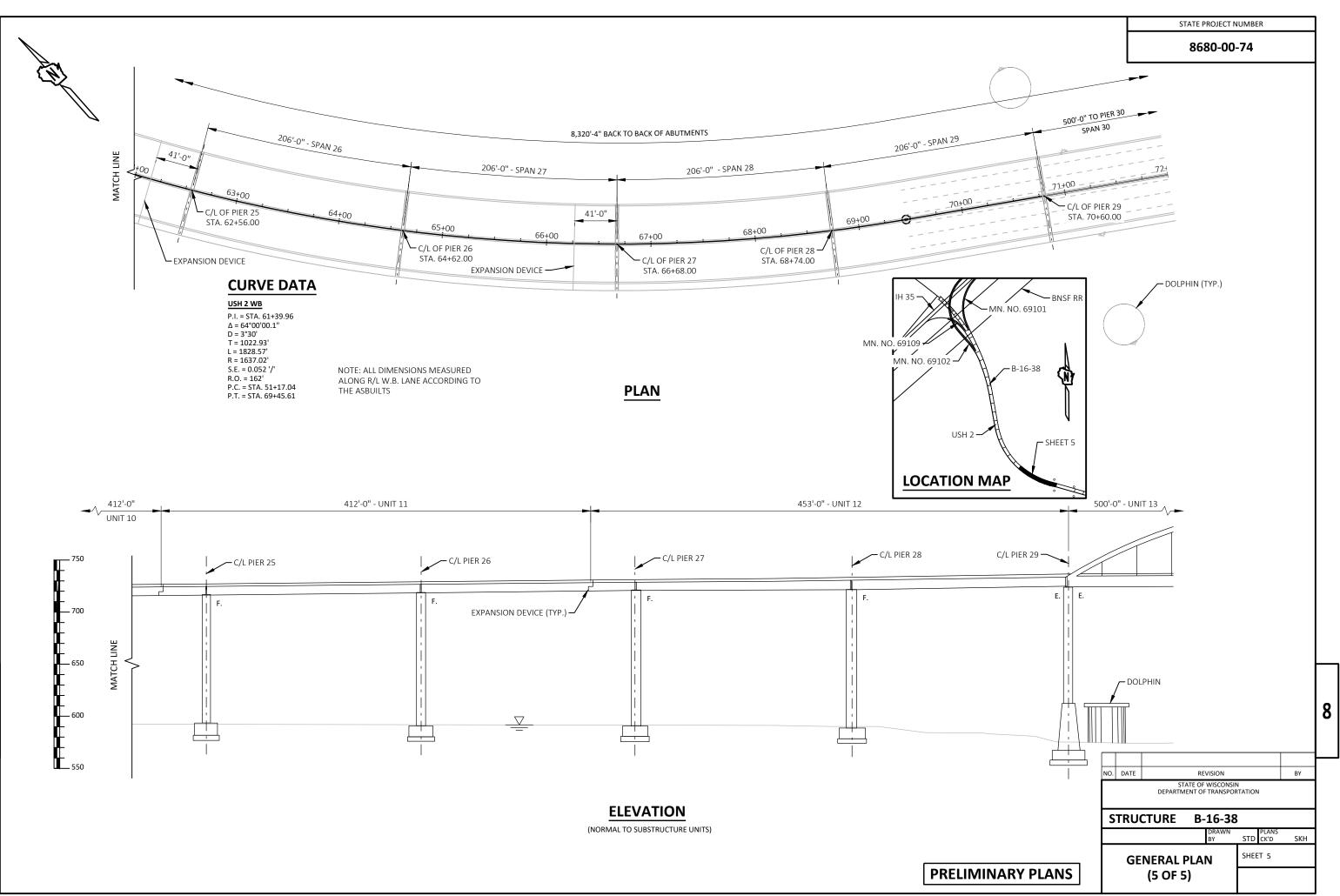
CURVE DATA

USH 2 WB

NOTE: ALL DIMENSIONS MEASURED ALONG R/L W.B. LANE ACCORDING TO THE ASBUILTS PLAN







DESIGN DATA

LIVE LOAD:

TAKEN FROM HSI 8/22/2024 DESIGN LOADING: HS 20

UNIT	INVENTORY RATING	OPERATING RATING	WIS-SPV
3	24	40	190
4	29	48	190
5	37	61	190
6	29	48	190
7	25	42	190
8	53	88	190
9	59	98	190
10	47	78	190
11	47	78	190
12	51	85	190
13	28	47	250

MATERIAL PROPERTIES:

CONCRETE MASONRY: SUPERSTRUCTURE ————————————————————————————————————	f' _c = 4,000 PSI
BAR STEEL REINFORCEMENT GRADE 60	f _v = 60,000 PSI

TRAFFIC DATA

<u>USH 2:</u> AADT = 14,800 (2020) AADT = 16,130 (2044) R.D.S. = 55 MPH

GENERAL NOTES

OR NOTED.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING NON-ASPHALTIC JOINT SEALER (1-INCH DEEP AND HOLD ¹/₈" BELOW SURFACE OF THE CONCRETE). COLOR TO MATCH ADJACENT SURFACES.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M153 TYPE 1, 2, OR 3, OR AASHTO M213.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0270	REMOVING STRUCTURE OVER WATERWAY DEBRIS CAPTURE B-16-38	EACH	
502.0100	CONCRETE MASONRY BRIDGES	CY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LBS	
531.8990	ANCHOR ASSEMBLIES POLES ON STRUCTURES	EACH	
652.0220	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/2-INCH	LF	
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	
SPV.0060	JUNCTION BOXES 8X8X6-INCH	EACH	
	NON-BID ITEMS		
	FILLER	SIZE	½" & ¾"

STATE PROJECT NUMBER

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DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

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

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

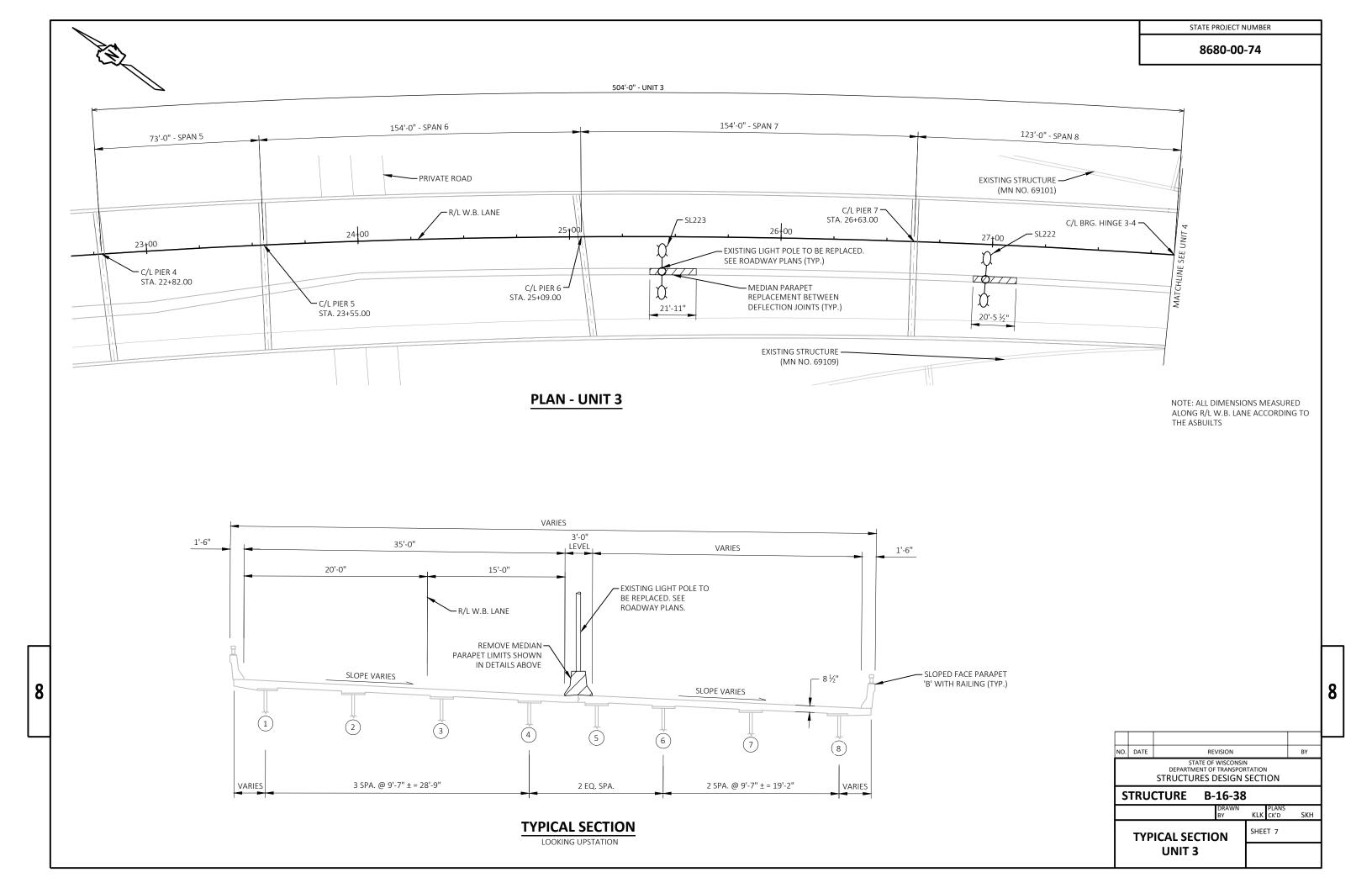
BEVEL EXPOSED EDGES OF CONCRETE $\frac{3}{4}"$ or match existing bevels, unless otherwise noted.

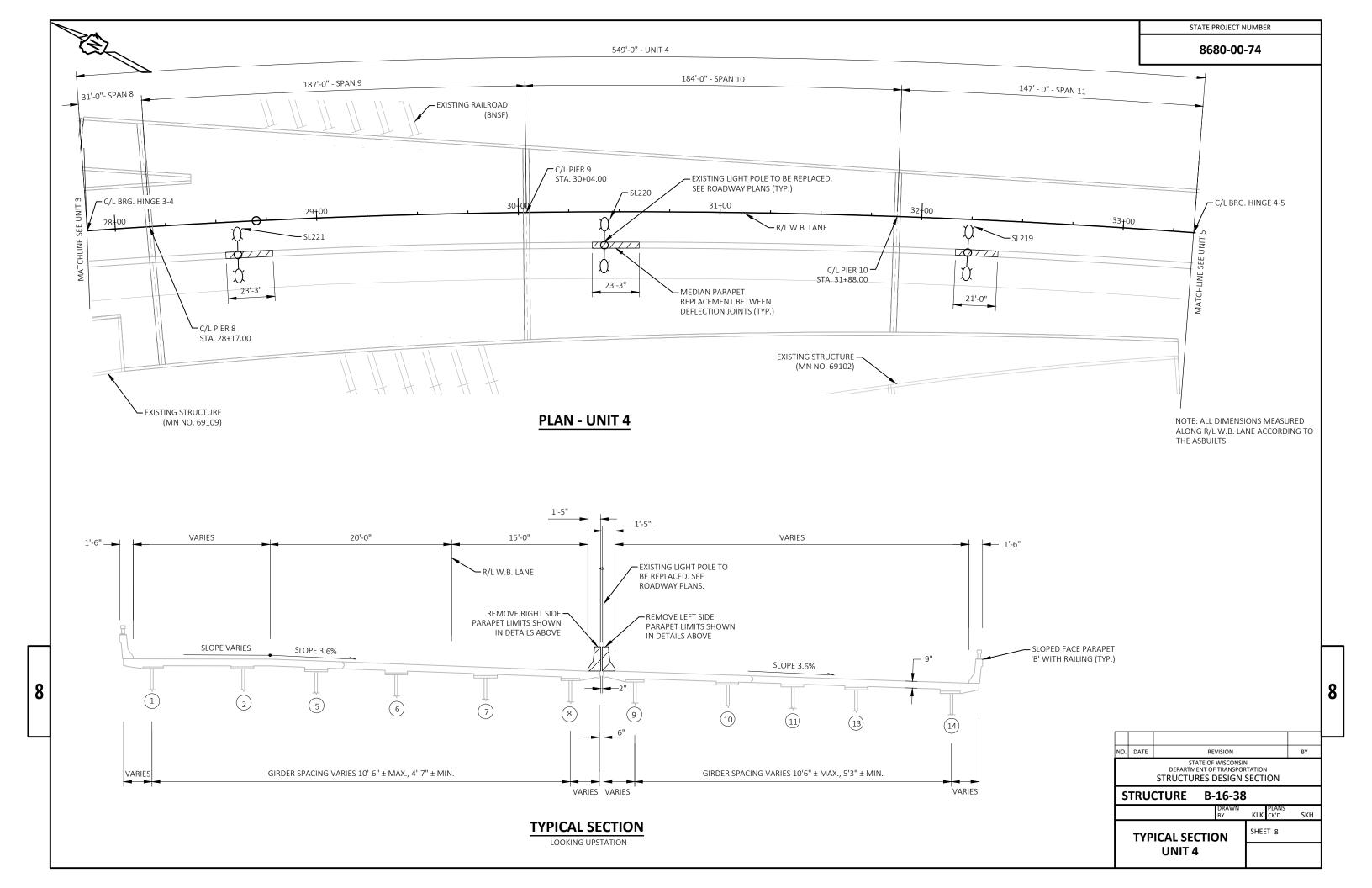
ALL REMOVAL LINES SHALL BE DEFINED BY A 1/2-INCH SAWCUT.

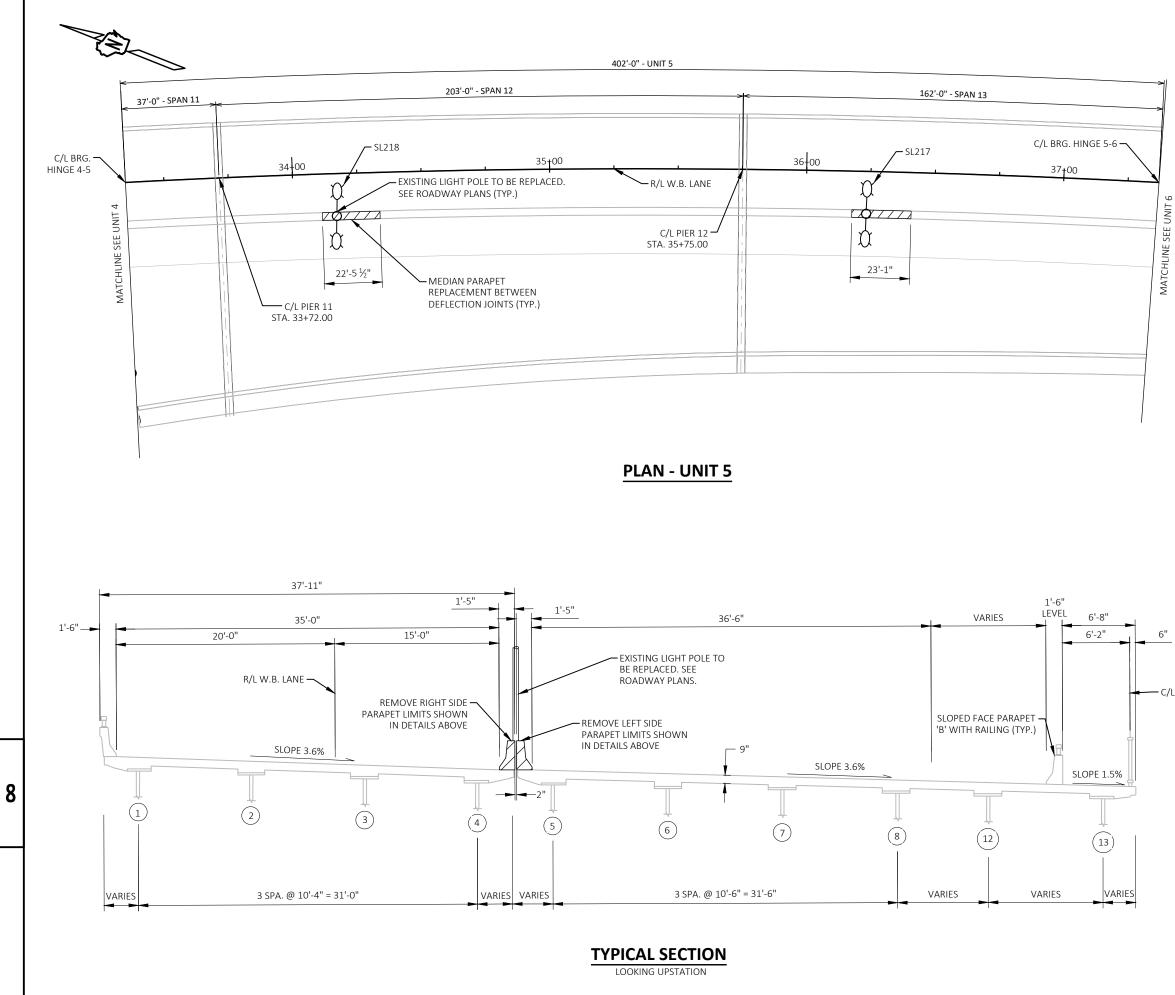
PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE, TOP OF THE PARAPETS.

SEE ROADWAY PLANS FOR STAGING DETAILS.

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S	TRU	CTURE	B-16-38	3		
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GENERAL NOTES, DESIGN DATA &					T 6	
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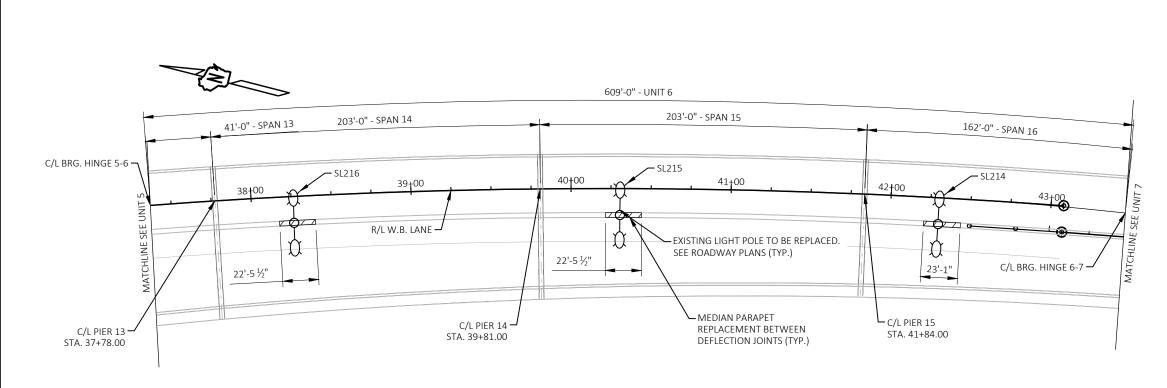
STATE PROJECT NUMBER

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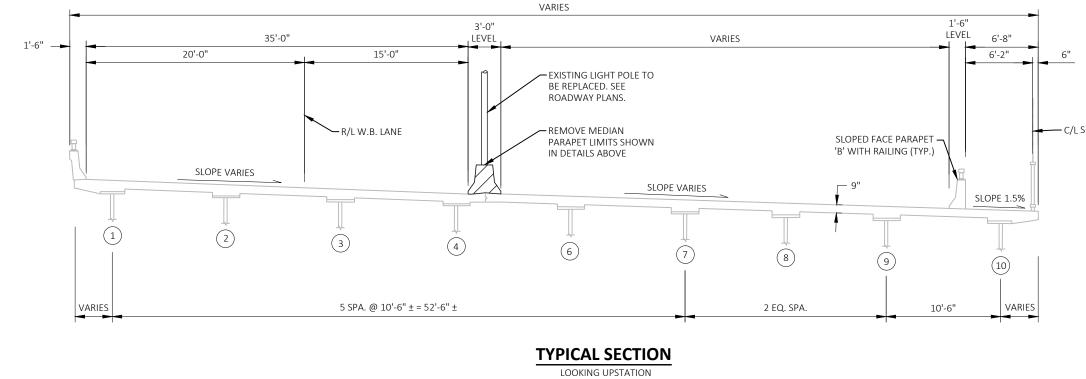
NOTE: ALL DIMENSIONS MEASURED ALONG R/L W.B. LANE ACCORDING TO THE ASBUILTS

- C/L SDWK. RAILING

NO.	DATE	RE	EVISION		BY			
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION							
S	STRUCTURE B-16-38							
			DRAWN BY	PLANS KLK CK'D	S SKH			
	ТҮР	ICAL SECTION	SHEET 9					
		UNIT 5						



PLAN - UNIT 6



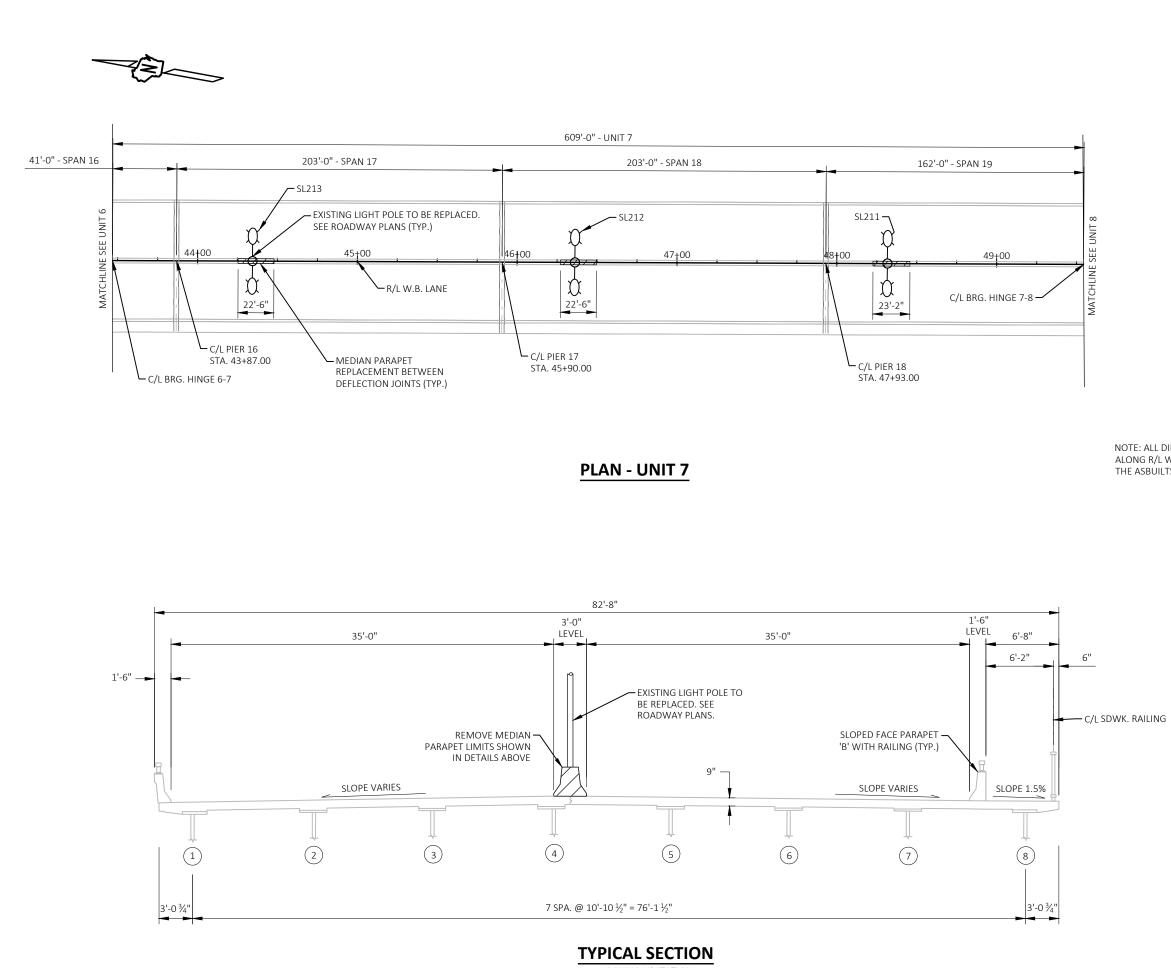
STATE PROJECT NUMBER

8680-00-74

NOTE: ALL DIMENSIONS MEASURED ALONG R/L W.B. LANE ACCORDING TO THE ASBUILTS

- C/L SDWK. RAILING

NO.	DATE	RE	EVISION			BY		
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION							
S	STRUCTURE B-16-38							
			DRAWN BY	KLK	PLANS CK'D	SKH		
TYPICAL SECTION					T 10			
		UNIT 6						



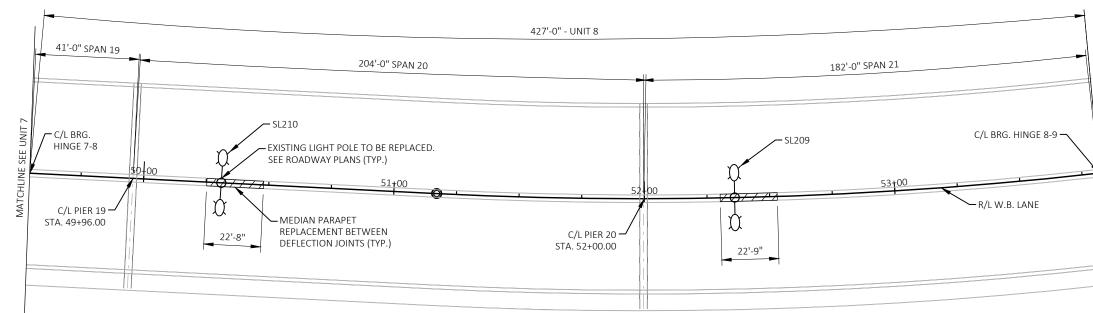
LOOKING UPSTATION

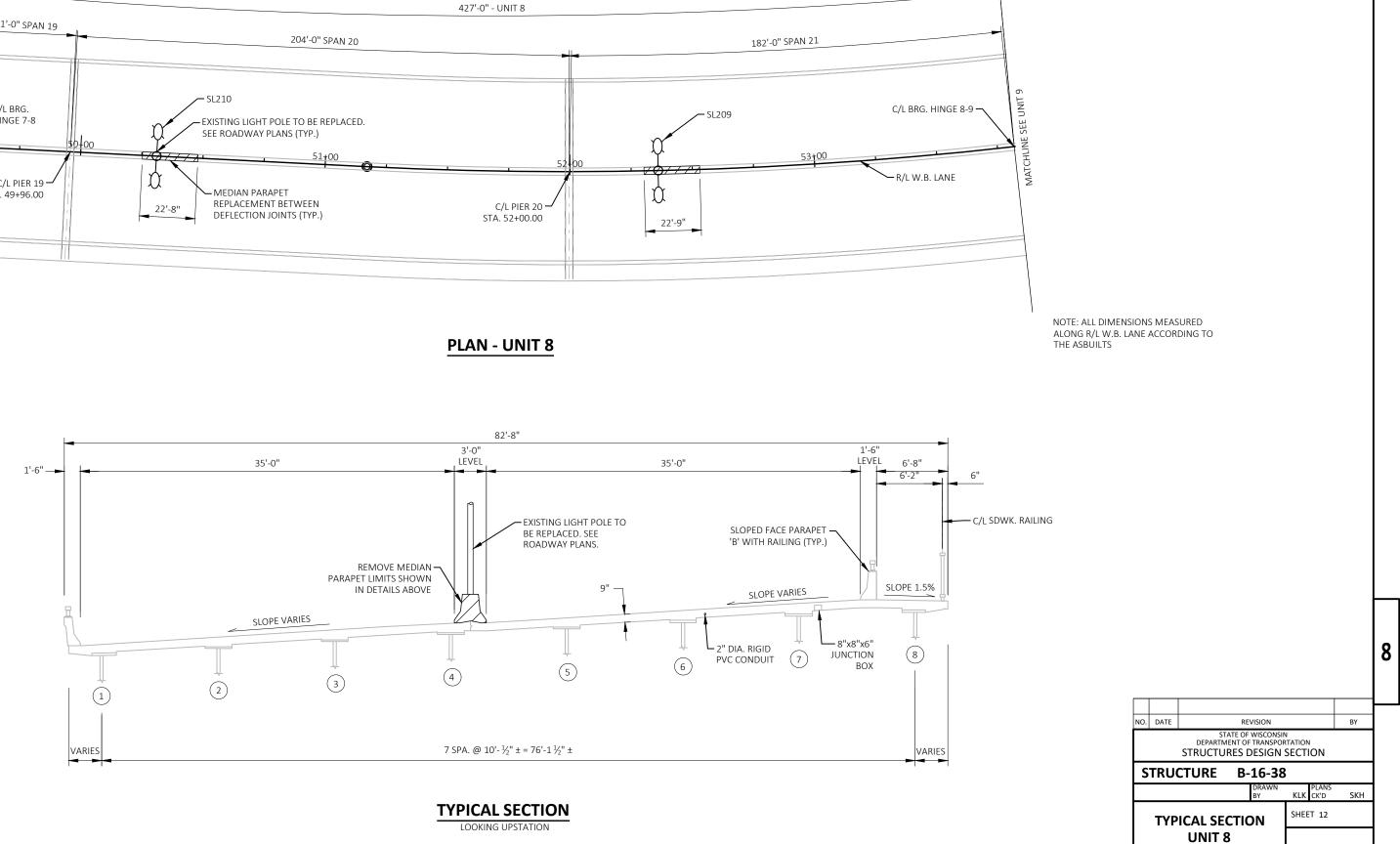
STATE PROJECT NUMBER

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NOTE: ALL DIMENSIONS MEASURED ALONG R/L W.B. LANE ACCORDING TO THE ASBUILTS

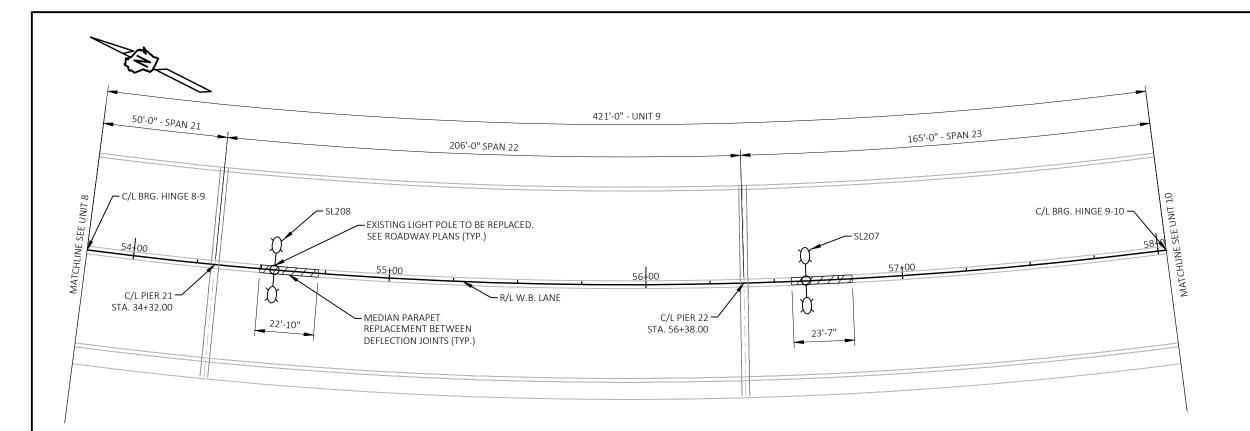
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		STATE OF DEPARTMENT O	WISCONSI				
		STRUCTURES			-		
		STRUCTURES	DESIGN	SLCT			
S	STRUCTURE B-16-38						
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TYPICAL SECTION					T 11		
		UNIT 7					



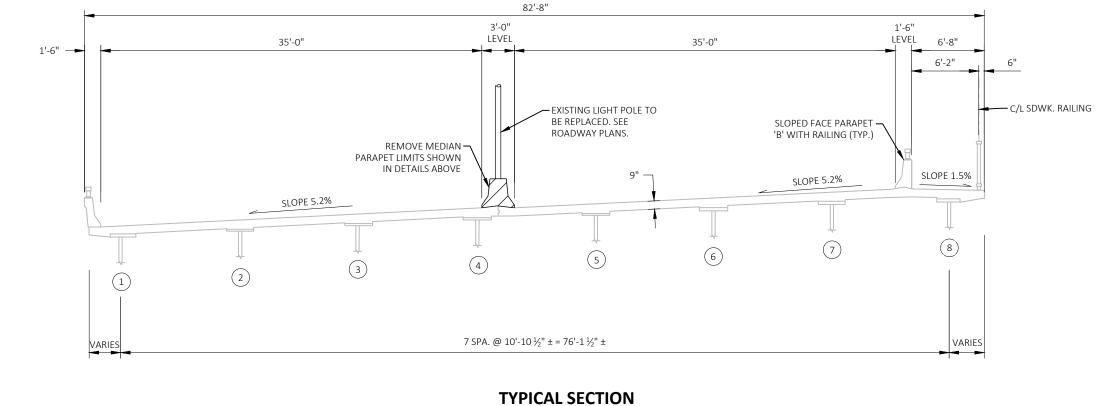


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PLAN - UNIT 9



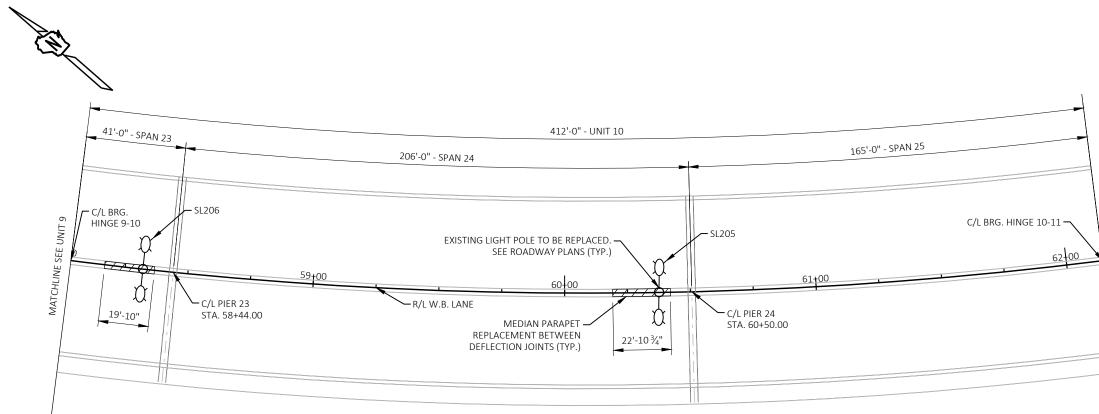
LOOKING UPSTATION

STATE PROJECT NUMBER

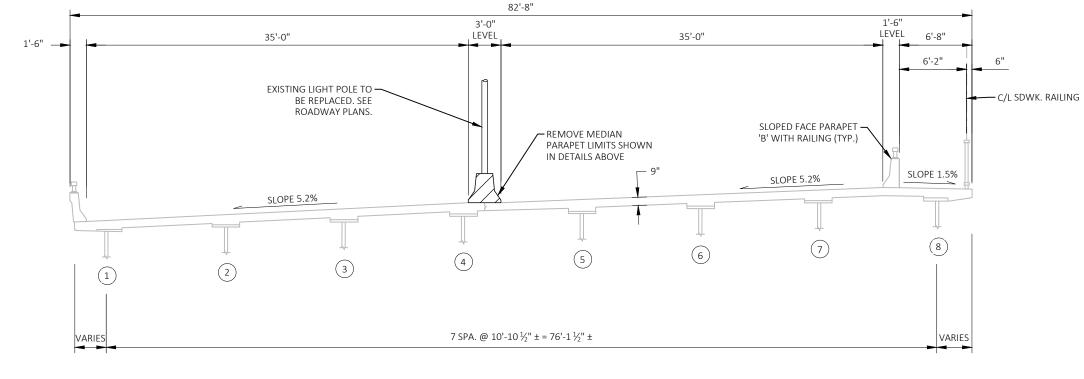
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NOTE: ALL DIMENSIONS MEASURED ALONG R/L W.B. LANE ACCORDING TO THE ASBUILTS

NO.	DATE		REVISION			BY
			OF WISCONSII T OF TRANSPOR	RTATION		
STRUCTURE B-16-38						
			DRAWN BY	KLK	PLANS CK'D	SKH
TYPICAL SECTION					T 13	
		UNIT 9				



PLAN - UNIT 10



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TYPICAL SECTION LOOKING UPSTATION

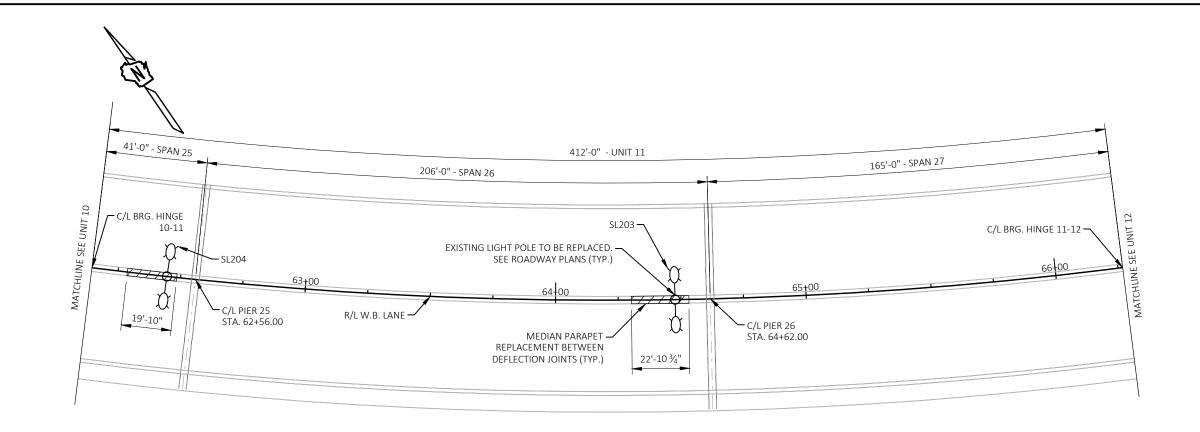
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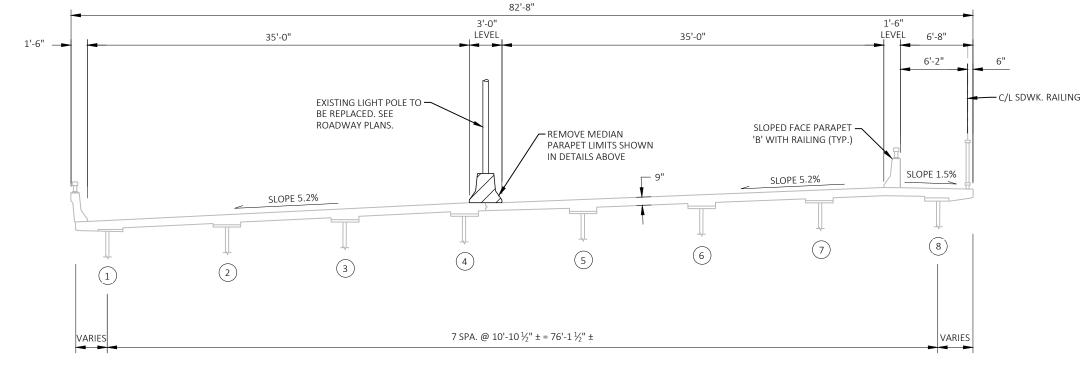


NOTE: ALL DIMENSIONS MEASURED ALONG R/L W.B. LANE ACCORDING TO THE ASBUILTS

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	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION							
STRUCTURE B-16-38								
			DRAWN BY	PL KLK CK	ANS 'D	SKH		
	ТҮР	ICAL SECTI	SHEET	14				
		UNIT 10						



PLAN - UNIT 11



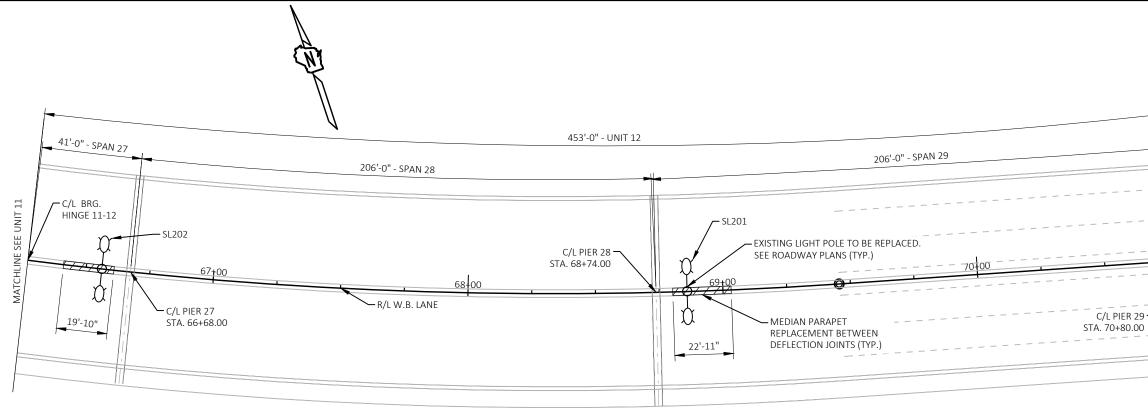
TYPICAL SECTION LOOKING UPSTATION

STATE PROJECT NUMBER

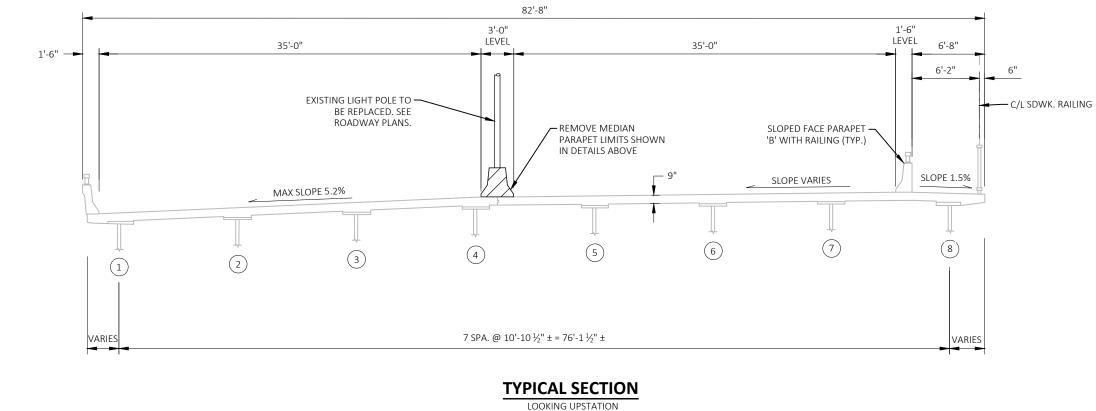
8680-00-74

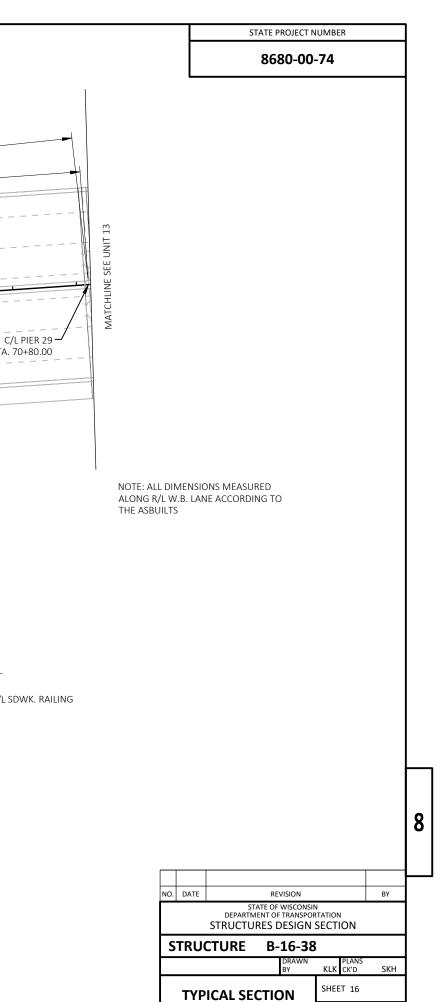
NOTE: ALL DIMENSIONS MEASURED ALONG R/L W.B. LANE ACCORDING TO THE ASBUILTS

NO.	DATE		REVISION		BY		
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION						
S	STRUCTURE B-16-38						
			DRAWN BY	PLAN KLK CK'D			
	ТҮР	ICAL SECT	SHEET 15	5			
		UNIT 11					

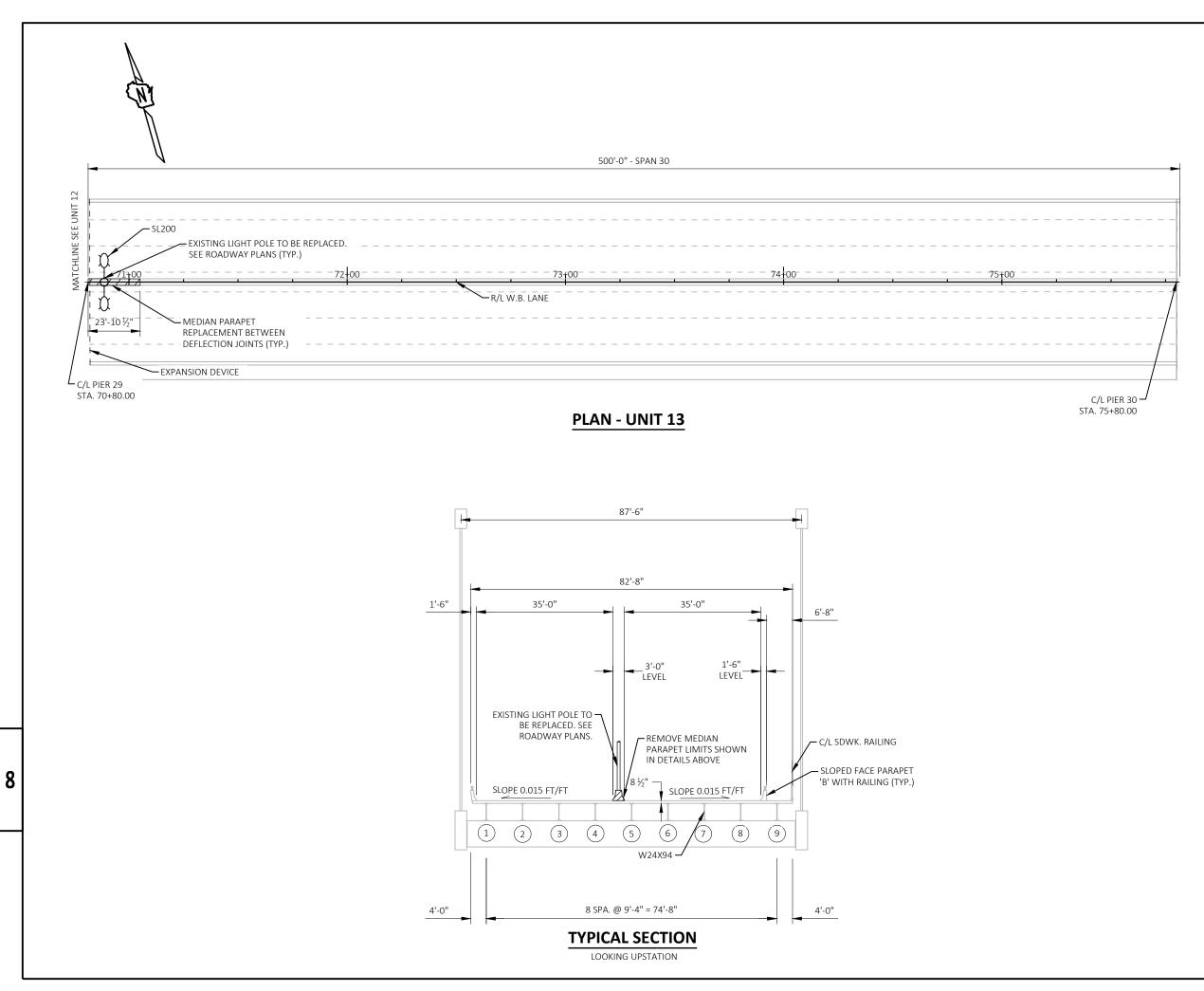








UNIT 12



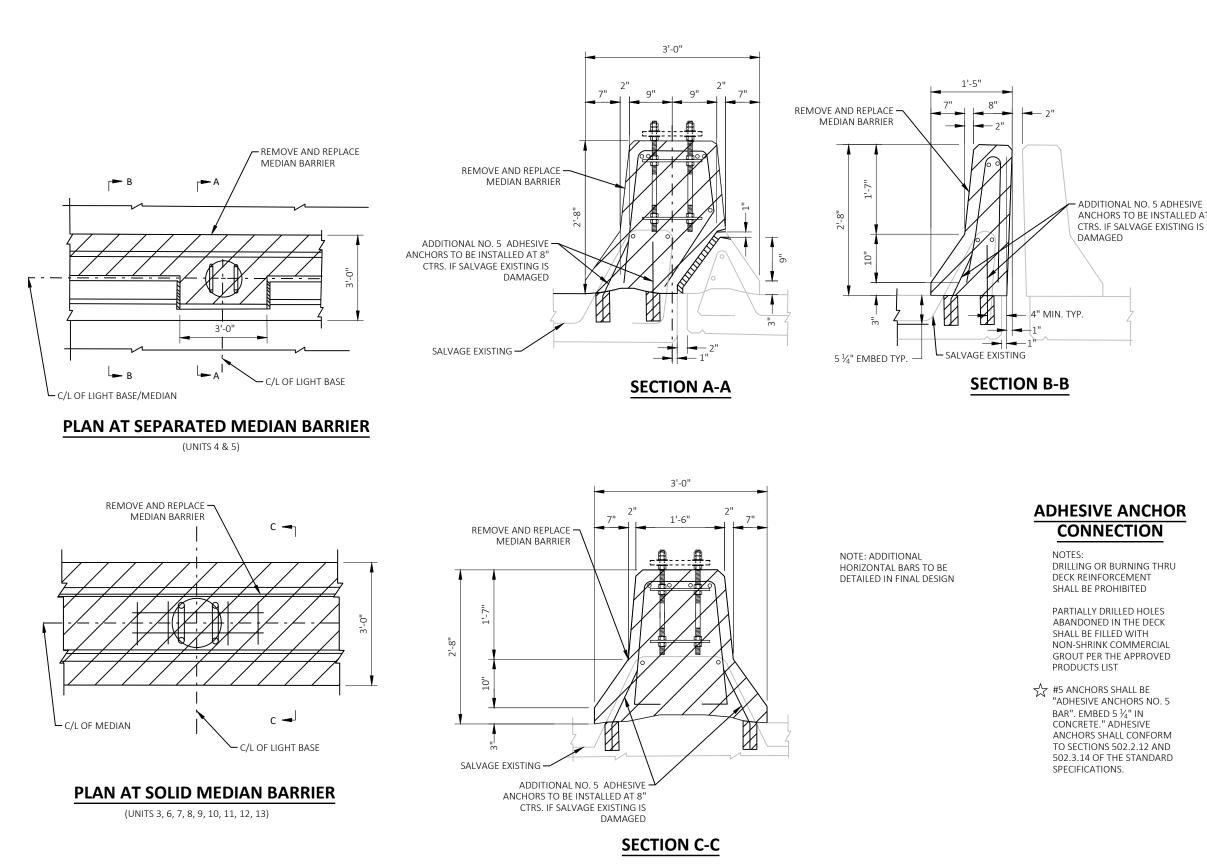
STATE PROJECT NUMBER

8680-00-74

NOTE: ALL DIMENSIONS MEASURED ALONG R/L W.B. LANE ACCORDING TO THE ASBUILTS

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	SKH						
TYPICAL SECTION					T 17		
UNIT 13							

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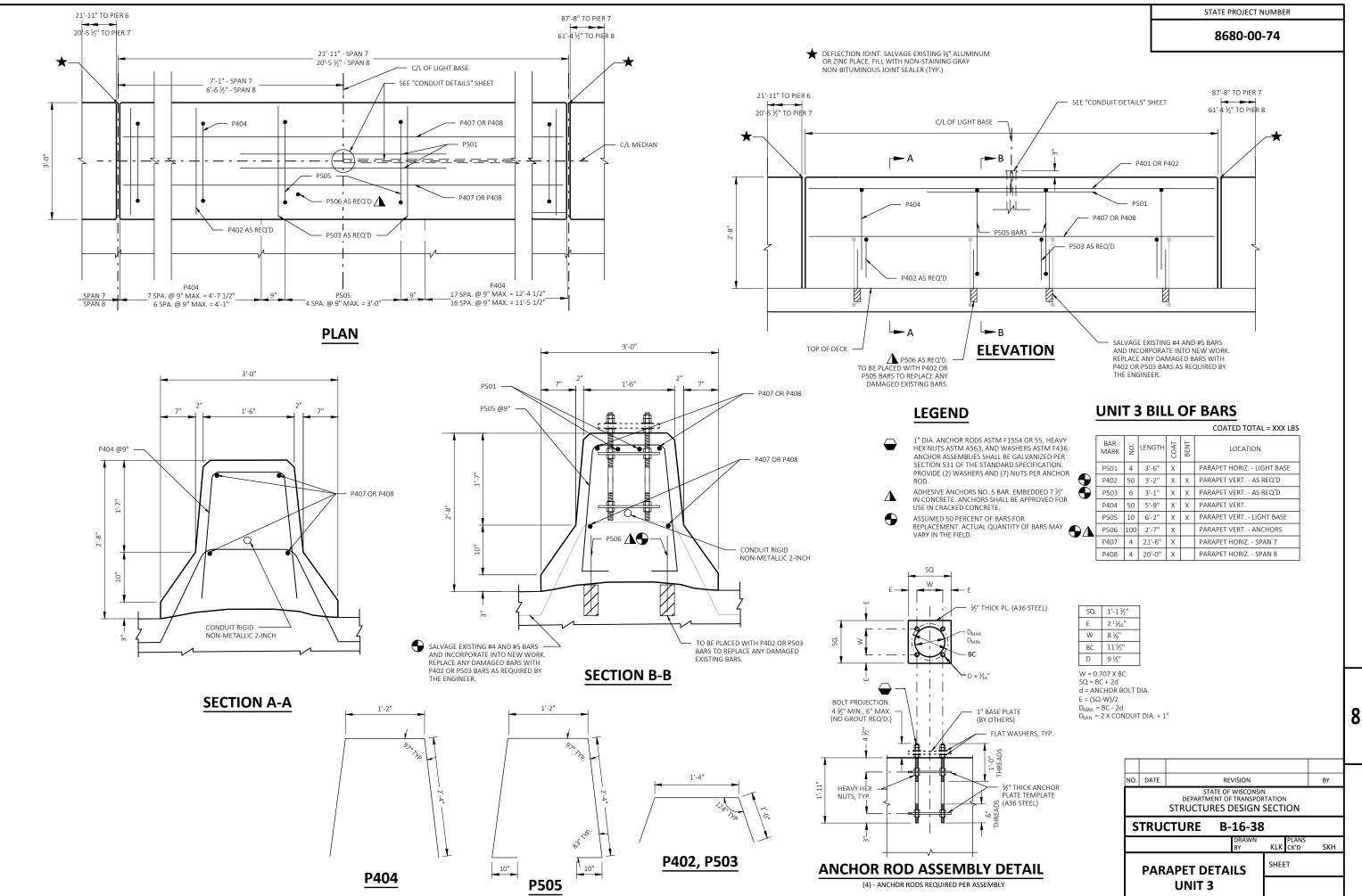
STATE PROJECT NUMBER

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ANCHORS TO BE INSTALLED AT 8" CTRS. IF SALVAGE EXISTING IS

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION								
S	STRUCTURE B-16-38							
	DRAWN PLANS BY KLK CK'D SKH							
			SHEET 18					
	PAR	APET DETA						

8



Attachment 4 Environmental Commitments Basic Sheet

		No ground disturbance within the project area.
	\square	No ground disturbance within the project area.

X. Supporting Documentation (guidance)

List additional discussion, agency correspondence, or supporting documentation used in this CE determination that was not covered in the previous questions or in an attached Factor Sheet. Projects with Section 4(f) *de minimis* determinations or programmatic evaluations will require review by EPDS and review and approval by FHWA prior to the approval of this CE. Attach necessary documentation to this checklist and maintain a copy in the project file: **Factor Sheets:**

Threatened, Endangered and Protected Resources

Attachments:

Attachment 1: Project Location Map Attachment 2: Preliminary Plans of Preferred Alternative Attachment 3: Tribal Coordination Attachment 4: WDNR Coordination Attachment 5: USFWS Coordination Attachment 6: Section 106 Documentation Attachment 7: US Coast Guard Coordination Attachment 7: US Coast Guard Coordination Attachment 8: Bureau of Aeronautics (BOA) and Federal Aviation Administration (FAA) Attachment 9: Phase 1 Hazardous Material Assessment Attachment 10: WisDOT STIP

XI. Environmental Commitments (guidance)

Identify and describe any avoidance, minimization or compensation measures (commitments) in detail. Be specific on what needs to happen and specifically where on the project. Indicate when the commitment should be implemented and who in WisDOT is responsible for fulfilling each commitment (Project Manager, Environmental Coordinator, etc.). Please note if the commitment will be indicated on the final plan, recorded in the Plans, Specifications and Estimates (PS&E), under special provisions in the final plan set, in construction notes, or some other written format. Attach a copy of this completed matrix to the design study report and the PS&E submittal package. Be sure to update it if further commitments are made after the Environmental Document is signed.

Factor	Commitment (If none, indicate N/A)
Business and Economics	N/A
Community	An initial construction notification, including a project description and traffic impacts, will be sent to the Region Communication Manager two weeks before the start of the project. The Region Communication Manager will send a press release to local media outlets to notify the public. The project will remain open for residences, businesses, and emergency vehicles. The WisDOT construction project manager will ensure commitments are met. The WisDOT Construction Project Manager will ensure commitments are met.
Aesthetics	N/A
Agriculture	N/A
Relocations	N/A

Indirect Impacts NA Currulative Impacts N/A Currulative Impacts N/A Currulative Impacts N/A Environmental Justice N/A Esciton 4(f) O N/A		
Environmental Justice N/A Historic Properties N/A Burial Sites N/A Burial Sites N/A Tribal Lands N/A Section 4(f) N/A Section 5(f) or Other Specially N/A Funded Lands N/A Wetlands N/A Surface Water Resources Standard Bid Item, 203.0335 Debris Containment Over Waterway, will be included in the plans. Three shall be no in-stream disturbance between March 1 and June 30, with both dates inclusive of the timeout period. This portion of the St. Losis River is also classified as a 303(d) listed waterway for contaminated sedments. The WiSDOT Design Project Engineer to assure fulfiliment of this commitment. Floodplains Floodplains N/A N/A Coastal Zones N/A Induce will dife and Habitat On September 14, 2022, the U.S. Fish and Wildlife Service announced a proposal to list the Tricolored Bat (Period) sendangered under the Endangered Species Act. (Fisted, Woord Will resolve Section 7 prior (in coordination with our lead federal agency) sandifies Endangered Species Act. (Fisted, Woord Will resolve Section 7 prior (in coordination with our lead federal agency) sandifies Endangered Species Act (Spi.) if listed. WisDOT (in coordination with our lead federal agency) sandifies Endangered species Act (Spi.) if listed. WisDOT (in coordination with	Indirect Impacts	N/A
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Tribal Lands N/A Section 4(f) N/A Section 6(f) or Other Specially N/A Wetlands N/A Wetlands N/A Surface Water Resources Standard Bid Item, 203.0335 Debris Containment Over Waterway, will be included in the plans. Three shall be no in-stream disturbance between March 1 and June 30, with both dates inclusive of the timeout period. This portion of the St. Louis River is also classified as a 303(d) listed waterway for contaminated sediments. Floodplains N/A Groundwater, Wells and Springs N/A Coastal Zones N/A Unique Wildlife and Habitat Concerns N/A Bid netting will be installed at select work areas of the structure (spot painting). These are the areas that there will be work underneath the structure. On September 14, 2022, the U.S. Fish and Wildlife Service announced a proposal to list the Tricolored Bat (Perimytes Supplowa) as andangered under the Endangered Species Act. If listed, WIDOT Will resolve Section 7 prior to te as appropriate. Construction activities for this project will not take place until WisDOT (in coordination with our lead feetal agency) statifies Endangered species Act compliance for the TCB. The WisDOT Construction Project Managered under the Endangered species Act compliance for the TCB. The WisDOT Construction Project Manager will ensure fulfillment of this conmitment." Threatened, Endangered and Protected Resources Fish adv place until WisDOT (In coordination with oure lead feeteral agency) statifies Endangered Specicies Act compli	Historic Properties	N/A
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Coastal Zones N/A Unique Wildlife and Habitat Concerns N/A Bird netting will be installed at select work areas of the structure (spot painting). These are the areas that there will be work underneath the structure. On September 14, 2022, the U.S. Fish and Wildlife Service announced a proposal to list the Tricolored Bat (<i>Perimyotis subflowus</i>) as endangered under the Endangered Species Act. Histed, WisDOT will resolve Section 7 prior to let as appropriate. Construction approject will not take place until WisDOT (in coordination with our lead federal agency) satisfies Endangered Species Act compliance for the TCB. The WisDOT Construction Project Manager will ensure fulfillment of this commitment." On August 22, 2023, the U.S. Fish and Wildlife Service (USFWS) announced a proposal to list the salamander mussel (<i>Simpsonaias ambigua</i>) as endangered under the Endangered Species Act (ESA). If listed, WisDOT will resolve ESA compliance prior to let, as appropriate. Construction activities for this project will not take place until WisDOT, in coordination with our lead federal agency, satisfies Endangered Species Act compliance for the salamander mussel. Is a state special concerns fish and may be found within the project limits. No timing restrictions or preventative measures are needed at this time. Is listed as endangered in Wisconsin and may be seen within the project limits. No timing restrictions or preventative measures are needed at this time. The WisDOT Design Project Engineer to assure fulfillment of this commitment.	Floodplains	N/A
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there will be work underneath the structure.On September 14, 2022, the U.S. Fish and Wildlife Service announced a proposal to list the Tricolored Bat (<i>Perimyotis subflavus</i>) as endangered under the Endangered Species Act. If listed, WisDOT will resolve Section 7 prior to let as appropriate. Construction activities for this project will not take place until WisDOT (in coordination with our lead federal agency) satisfies Endangered Species Act compliance for the TCB. The WisDOT Construction Project Manager will ensure fulfillment of this commitment."On August 22, 2023, the U.S. Fish and Wildlife Service (USFWS) announced a proposal to list the salamander mussel (<i>Simpsonaias ambigua</i>) as endangered under the Endangered Species Act (ESA). If listed, WisDOT will resolve ESA compliance prior to let, as appropriate. Construction activities for this project will not take place until WisDOT, in coordination with our lead federal agency, satisfies Endangered Species Act compliance for the salamander mussel.Image: Species is a state special concerns fish and may be found within the project limits. No timing restrictions or preventative measures are needed at this time.The WisDOT Design Project Engineer to assure fulfillment of this commitment.	-	N/A
		there will be work underneath the structure. On September 14, 2022, the U.S. Fish and Wildlife Service announced a proposal to list the Tricolored Bat (<i>Perimyotis subflavus</i>) as endangered under the Endangered Species Act. If listed, WisDOT will resolve Section 7 prior to let as appropriate. Construction activities for this project will not take place until WisDOT (in coordination with our lead federal agency) satisfies Endangered Species Act compliance for the TCB. The WisDOT Construction Project Manager will ensure fulfillment of this commitment." On August 22, 2023, the U.S. Fish and Wildlife Service (USFWS) announced a proposal to list the salamander mussel (<i>Simpsonaias ambigua</i>) as endangered under the Endangered Species Act (ESA). If listed, WisDOT will resolve ESA compliance prior to let, as appropriate. Construction activities for this project will not take place until WisDOT, in coordination with our lead federal agency, satisfies Endangered Species Act compliance for the salamander mussel. Is a state special concerns fish and may be found within the project limits. No timing restrictions or preventative measures are needed at this time. Is listed as endangered in Wisconsin and may be seen within the project limits. No timing restrictions or preventative measures are needed at this time.
	Air Ouality	

Construction Sound	N/A
Traffic Noise	N/A
Hazardous Substances, Contamination and Asbestos	N/A
Stormwater	N/A
Erosion Control	In accordance with TRANS 401, the Contractor is required to prepare an erosion control implementation plan (ECIP) and submit the plan to WisDOT and WDNR for review, at least 14 days prior to the preconstruction conference. WisDOT Construction Project Manager to ensure commitments are met. All projects require an Erosion Control Plan (ECP) that describes best management practices that will be implemented before, during and after construction to minimize pollution from storm water discharges. Additionally, the plan should address how post-construction storm water performance standards will be met for the specific site. The project design and Erosion Control Implementation Plan (ECIP) must comply with the TCGP in order to receive permit-coverage from the DNR. Once the project contract has been awarded, the contractor will be required to outline their implementation of erosion control measures as it relates to the construction project, as well as their construction methods in the ECIP. An adequate ECIP for the project must be developed by the contractor and submitted to this office for review at least 14 days prior to the preconstruction conference. For projects regulated under the TCGP, submit the ECIP as an amendment to the ECP.
	The WisDOT Construction Project Manager will ensure commitments are met.
Other: Navigational Waterway	This reach of the St. Louis River is regularly used by recreational watercraft. It will be necessary to place navigational aids such as waterway markers throughout the construction zone to promote safe passage. Prior to the placement of waterway markers, a Waterway Marker Application and Permit will need to be obtained by the contractor.
Markers	The contractor will be limited to a working area of 10' below low steel of the center arch and will be required to display steady burning yellow lights on the bottom and 4 corners of any scaffolding. Up to two barges, 40'x60' or smaller may be used at the bridge piers. The barges are required to monitor VHF-FM Marine Channel 16 and move as necessary to allow vessels to pass. The WisDOT Construction Project Manager will ensure commitments are met.
Other:	the wisport construction redject manager will ensure commitments are met.

Attachment 5 Section 106 – Screening List Pursuant to 36 CFR 800.3 (a)(1) WisDOT (Cultural Resources) has determined the proposed actions for these undertakings (projects) will have no potential to cause effects to historic properties. No further section 106 obligations are required. However, if the proposed actions for an undertaking (project) should change in any way that would involve ground disturbing activities, additional section 106 coordination is required for that undertaking (project).

County	Main ID	Notification Date	Project Put on Screening List fo	r Route	Title	Bridge ID
Douglas	1009-89-27	10/18/2023	Both Archaeology and History	County W, Chicago Str	Crossing No. 251873N, MP 465.06	
Douglas	1180-00-31	07/20/2022	Both Archaeology and History	USH 2	53rd Ave E to CTH C	
Douglas	1180-01-02	02/07/2023	Both Archaeology and History	USH 2	USH 53 S to CTH D	
Douglas	1180-05-04	04/27/2022	Both Archaeology and History	USH 2	Bayfield Rd to CTH D	
Douglas	1180-05-05	06/17/2020	Both Archaeology and History	USH 2	Clevedon Rd to Sznaider Rd	
Douglas	1195-00-36	07/05/2023	Both Archaeology and History	USH 2/53	Bayfield Road to STH 13	
Douglas	1195-03-00	05/11/2020	Both Archaeology and History	USH 2	Superior-Wentworth STH 13 Bridge B-16	B-16-0024
Douglas	1196-00-30	06/19/2023	Both Archaeology and History	USH 53	CTY to CTH M	
Douglas	1196-00-31	05/10/2019	Both Archaeology and History	USH 53	Minong-Solon Springs, CTH M-Wis Cent	
Douglas	1198-00-07	04/30/2019	Both Archaeology and History	USH 53	CTH Y Intersection	
Douglas	1198-00-09	08/22/2022	Both Archaeology and History	USH 53	USH 2 & USH 53 Junction	B16-048
Douglas	1198-00-09	08/22/2022	Both Archaeology and History	USH 53	USH 2 & USH 53 Junction	
Douglas	1199-00-06	06/16/2020	Both Archaeology and History	USH 535 (Blatnik Bridg	Piers 24 & 39	
Douglas	3700-50-50	03/14/2019	Both Archaeology and History	STH 35/STH 105	C Superior, Traffic Signal Installation	
Douglas	8150-00-02	12/11/2023	Both Archaeology and History	STH 27	Hayward - Brule (Sandy Run Creek Brid	B-16-0NEW
Douglas	8381-00-00	09/17/2019	Both Archaeology and History	T. Amnicon, Old Road	Middle River Bridge	P-16-0095
Douglas	8383-00-00	10/17/2023	Both Archaeology and History	After Hours Road	Town Brule	P01-0903
Douglas	8386-00-03	08/31/2023	Both Archaeology and History	East Mail Road	Eau Claire River Bridge	
Douglas	8394-00-03	11/16/2023	Both Archaeology and History	Patzau Foxboro Road	Balsam Creek Bridge	P-16-0109
Douglas	8396-00-03	02/18/2019	Both Archaeology and History	Local Street	T. Wascott, Lawler Bridge Rd, Eau Clair	P-16-0129
Douglas	8396-00-04	11/16/2023	Both Archaeology and History	Lidberg Bridge Road	Eau Claire River Bridge	P-16-0131
Douglas	8510-01-00	06/08/2020	Both Archaeology and History	STH 13	Port Wing - Superior, CTH H to Engdahl	
Douglas	8680-00-04	03/25/2024	Both Archaeology and History	USH 2	Bong Bridge	B16-0038-0
Douglas	8753-00-00	05/27/2022	Both Archaeology and History	CTH G	Washburn County Line to East Mail Roa	
Douglas	8898-00-37	10/27/2023	Both Archaeology and History	Bus Pick-up/drop-off va	City of Superior	
Douglas	8998-00-33	10/16/2019	Both Archaeology and History	C. Superior, Marina Dri	Barkers Island Bridge	
Douglas	8998-00-35	09/21/2022	Both Archaeology and History	Hammond Ave	N 21st Street to N 28th Street	
Douglas	8998-00-43	05/18/2022	Both Archaeology and History	Woodlawn Road	42nd Ave to Nemadji River Bridge	
Dunn	1009-89-22	11/20/2022	Both Archaeology and History	CTH Q	WCL-Minneapolis Subdivision 693 005W	
Dunn	1020-05-33	03/20/2023	Both Archaeology and History	IH 94	Wilson Creek To Red Cedar River	
Dunn	1021-01-08	08/27/2021	Both Archaeology and History	IH 94	Baldwin-Menomonie (East Branch Wilso	B17-51
Dunn	1021-01-09	02/03/2020	Both Archaeology and History	IH 94	Baldwin-Menomonie Hall Est Rd/160th S	B-17-0020
Dunn	1022-04-06	04/20/2020	History Only	Menomonie Safety & W		
Dunn	1022-05-00	05/15/2019	Both Archaeology and History	IH 94	Menomonie-Eau Claire, Red Cedar River	B-17-0035
Dunn	1022-05-00	05/15/2019	Both Archaeology and History	IH 94	Menomonie-Eau Claire, Red Cedar River	B17-145
Dunn	1022-05-00	05/15/2019	Both Archaeology and History	IH 94	Menomonie-Eau Claire, Red Cedar River	B17-144
Dunn	1022-05-00	05/15/2019	Both Archaeology and History	IH 94	Menomonie-Eau Claire, Red Cedar River	
Dunn	1022-05-00	05/15/2019	Both Archaeology and History	IH 94	Menomonie-Eau Claire, Red Cedar River	
Dunn	1022-05-00	05/15/2019	Both Archaeology and History	IH 94	Menomonie-Eau Claire, Red Cedar River	
Dunn	1022-05-00	05/15/2019	Both Archaeology and History	IH 94	Menomonie-Eau Claire, Red Cedar River	
Dunn	1022-05-00	05/15/2019	Both Archaeology and History	IH 94	Menomonie-Eau Claire, Red Cedar River	
Dunn	1022-05-00	05/15/2019	Both Archaeology and History	IH 94	Menomonie-Eau Claire, Red Cedar River	B17-34
Dunn	7090-02-01	06/18/2019	Both Archaeology and History	USH 12	Menomonie-Eau Claire, CTH B-IH 94	
Dann	1000-02-01	50/10/2019	Boar Archaeology and Histoly	001112		

Attachment 6 Traffic Management Plan

WisDOT Transportation Management Plan

TMP Form Version 2.3 TMP ID: 10740 - Approved 60%

Section 1A - Project Information

TMP Type:	2
Region:	NW
Local Program:	No
Created Comment:	
Federal Oversight:	No
Design ID:	8680-00-04
Project Title:	SUPERIOR - WENTWORTH
County:	DOUGLAS
Highway:	US 2
Construction Year:	2025
Mainline AADT:	17900
Crossroad AADT:	
Construction ID(s):	8680-00-74
Project Type:	BRIDGE PREVENTIVE
Project Limits:	BONG BRIDGE B-16-0038-0001 TO 0019
Project Length:	2.55
Project Duration:	50
Engineers Estimate:	\$3M-10M
PS&E Date:	02/01/2025
Advancable Date:	
LET Date:	05/13/2025
NHS Route:	Yes

Section 1B - Project Impacts:

Anticipated Begin:	06/01/2025
Anticipated End:	08/31/2025
OSOW Route:	Yes
OSOW Type:	OSOW-TR

Section 1C - Locations:

Highway Locations No highway locations listed.

Local Road Locations No local road locations listed.

Section 2 - Project Description

Brief description of work activities:

The proposed project is a Bridge Preventative (BRPVTV) project. The project will involve spot painting the existing steel arch structure of the center span, spot concrete surface repair of the 2 piers that support the center steel arch structure, street lighting replacement on the MN half of the structure including MN ramps, street lighting replacement on the WI approach, remove and replace the three rubber strip seals of the center tied arch, apply a MMA (Methyl Methacrylate) flood seal concrete sealer to the entire deck including MN ramps, and new pavement marking on the entire bridge, MN ramps, and WI approach.

Section 3 - Existing Conditions

Within the project limits, are	there:
Pedestrians:	Yes
Bicyclists:	Yes
Transit Service:	No
Railroads:	Yes
Airports:	No
Commercial Waterways:	Yes
Controlled intersections:	No
Dynamic Message Boards:	No
What are the current traffic of	onditions:
Posted speed limit (mph):	55
Normal travel time (min):	2
Current capacity (vphpl):	1240
Truck %:	12
Queueing present:	No
Queueing when:	

Section 4 - Work Zone Strategies

List of chosen strategies:

Strategy	Justification/Comment	Cost
Lane Closures-Long Term /Continuous(more than a week)	Median lanes will be closed one stage and then outside lanes will be closed second stage.	\$0
Lane Shift without Shoulder Work	Vehicles may be shifted slightly to shoulder during certain operations	\$0
Rolling Closures-Day time	Pavement marking could potentially be installed during rolling closures.	\$10000
Ramp Closure(s)(>3 Days)	MN ramps will be closed at various times for replacement of lighting, cleaning of deck and application of concrete sealer, and pavement marking	\$0
Temporary Traffic Control Devices	Various traffic control devices will be used for shifting traffic, lane closures, and ramp closures.	\$100000
Ramp Detour	MN ramps will have detours. Not all ramps will be closed at the same time.	\$25000

Cost of chosen strategies (sum of strategy costs): \$135000

Section 5 - Work Zone Impacts

Describe how access to traffic generators (businesses, schools, etc.) and everyday services will be maintained:

A minimum of one lane of through traffic in each direction will be maintained. No impacts to traffic generators is anticipated.

Describe how impacts to bicycle riders will be mitigated/coordinated:

Sidewalk across structure will be closed for approximately 3 weeks. Bicycles are not allowed on the Bong Bridge. Bicycles and pedestrians will need to use the DTA bus (which has bike racks) to travel between Duluth and Superior during the sidewalk closure

Describe how impacts to railways will be mitigated/coordinated:

Two light poles will be replaced in the median of the structure on the MN side of the bridge. This includes removal and replacement of a segment of parapet. This is over active tracks. This work will take up to 4 days. The contractor will need to

access railroad property to contain construction debris. Special provisions for RR coordination are being included with the plans.

Describe how impacts to commercial waterways will be mitigated/coordinated:

There will be work on the two center piers that support the main span. This is an active shipping channel. Coordination has been completed with the U.S. Coast Guard and restrictions are in place for the size of barge that the contractor can use as well as lighting and signing requirments.

Are there anticipated traffic impacts from the proposed project on other road/routes in the region/corridor?

Yes. The MN ramps (3 ramps - WB USH 2 to NB I35, SB I35 to EB USH 2, and NB I35 to EB USH 2) will be closed at various times in order to install new lighting, place concrete deck sealer, and repaint. These ramps will utilize I35 at the N Central Ave Interchange and the I35 S 27th Ave W interchange in MN. These are previously used detour routes that MN DOT has provided.

Does the project affect other regions/states?

Yes. The structure is 1/2 in WI and 1/2 in MN. All ramp work is in MN.

List holidays or major special events that occur during the project:

Holiday/Special Event	Begin Date	End Date
Memorial Day	05/23/2025	05/27/2025
Independence Day	07/03/2025	07/07/2025
Labor Day	08/29/2025	09/02/2025

How will traffic disruptions be minimized during listed events and holidays?

No work will be allowed during these timeframes. Traffic control and lane shifts will remain in place, but no hauling of materials or work on USH 2 will be allowed.

Section 6 - Traffic Analysis

What is the anticipated travel delay during the project for each impacted roadway?

#	Location Description	WZ Capacity (vphpl)	Delay (min)	Queue (mi)	Delay Cause
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How was the work zone capacity determined?

WisDOT provided WZIA.

Section 6+ - Lane Closure Hours

a) Are there restrictions on when lane closures are allowed? No

Section 6+ - Detour Route

Detour Information

Detour Route	Normal Travel Time (min)	Detour Travel Time (min)	Detour Distance (mi)
WB USH 2 Ramp to NB I35 Closed. Use WB US 2 to S 46th Ave W on ramp to I 35 to N Central Ave Interchange to I 35 NB	1	3	1.7
SB 46th Ave W to EB USH 2 closed. Use SB 46th Ave to SB I35 to N Central Ave interchange to NB I35 to EB USH 2.	1	3	1.6
SB I35 to EB USH 2 closed. Use SB I35 to N Central Ave interchange to NB I35 to EB USH 2	1	3	1.8

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Section 7 - Public Information Strategies

Road Users

Motorists

WisDOT press release will be used during construction.

Pedestrians

Public Involvement meeting. Additional notification was also sent to Superior Public Library, Superior Social Security Office, and Lee Martin Senior Center. WisDOT press release will be used during construction.

Freight

WisDOT press release will be used during construction.

Bicycles

Public Involvement meeting. Additional notification was also sent to Superior Public Library, Superior Social Security Office, and Le Martin Senior Center. WisDOT press release will be used during construction.

Impacted Area Residents

Public Involvement meeting. Additional notification was also sent to Superior Public Library, Superior Social Security Office, and Le Martin Senior Center. WisDOT press release will be used during construction.

Municipal/County Officials

Public Involvement meeting and WisDOT press release will be used during construction.

Residents

Public Involvement meeting and WisDOT press release will be used during construction.

Emergency Responders Fire Department & Emergency Medical Services

Public Involvement meeting and WisDOT press release will be used during construction.

Law Enforcement

Public Involvement meeting and WisDOT press release will be used during construction.

Other Transportation

Project is not expected to impact Other Transportation.

Outside Impacts Near-by Projects

Project coordination for this border bridge with MN DOT.

Section 8 - Incident Management Strategies

List of chosen strategies:

Strategy	Comments	
Incident/Emergency Response Plan and Coordination with Emergency Responders	Standard WisDOT Emergency Response plan will be used.	\$0

Cost of chosen strategies (sum of strategy costs): \$0

Section 9 - Staging Plans

Briefly describe the staging planned for maintaining traffic:

Stage 1 will consist of closing both median lanes and performing work on the center median and median lanes. Stage 2 will consist of closing both outside lanes and performing work on the outer lanes and structure.

Vehicle Size Restrictions:

#	Location Description	Min lane width to maintain (ft)	Min lane width plus shoulder (ft)	Min height (ft)	Min shy distance to CBTP (ft)	
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Temporary Pedestrian Accommodations Design Checklist

1. Will facilities used by vulnerable road users be disrupted by the work? Be sure to consider all impacts from the road work, water/sewer/natural gas laterals, electrical service, and phone/internet/cable providers.

No

Attachments

Sectional Attachments

8680-00-04,74 Project Location Map.pdf 8680-00-74_USH_2_wzia.pdf 8680-00-74_USH_2_wzia.pdf communications list.pdf Bong Ramp Detours.pdf Ramp Overviews and detours.pdf Traffic Control_Overview.pdf

Approvals

Approval 60%

Signature Role	Signatory	Signed On
Project Manager (PM)	Philip Keppers	11/06/2024 09:15 AM
Regional Traffic (RT)	Aaron Christ	11/13/2024 09:07 AM
Regional Project Development Chief (RPDC)	Paul Conlin	11/18/2024 07:57 AM